v
v

QUADRILATERO Marche Umbria S.p.A.

ASSE VIARIO MARCHE – UMBRIA E QUADRILATERO DI PENETRAZIONE INTERNA MAXI LOTTO 2

LAVORI DI COMPLETAMENTO DELLA DIRETTRICE PERUGIA ANCONA:
SS. 318 DI "VALFABBRICA". TRATTO PIANELLO – VALFABBRICA
SS. 76 "VAL D'ESINO". TRATTI FOSSATO VICO – CANCELLI E ALBACINA – SERRA SAN QUIRICO
"PEDEMONTANA DELLE MARCHE", TRATTO FABRIANO – MUCCIA – SFERCIA

PERIZIA DI VARIANTE

CONTRAENTE GENERALE	IL RESPONSABILE DEL CONTRAENTE GENERALE
DIRPA s.c.a r.l.	GIACOMO ZANCHINI 2022.12.15 14:27:08
PROGETTAZIONE Partecipazioni Italia S.p.A. IL PROGETTISTA Dott. Ing. Salvatore Lieto Ordine degli Ingegneri Prov. di [illegible] n.1147 SALVATORE LIETO 13.12.2022 16:08:16 GMT+00:00 IL GEOLOGO Geol. Amedeo Babbini Il Geologo Babbini Amedeo 2022.12.15 14:34:44 Ordine dei Geologi Regione Toscana n.1032	**ASSISTENZA ALLA PROGETTAZIONE** SGS IL PROGETTISTA Ing. Valter Capata

VISTO: IL RESPONSABILE DEL PROCEDIMENTO	IL COORDINATORE DELLA SICUREZZA IN FASE DI ESECUZIONE	IL DIRETTORE DEI LAVORI
VISTO: IGINIO FAROTTI Ing. Iginio Farotti	Firmato digitalmente da: Ing. Vincenzo PARDO 2023.02.13 17:28:17 VISTO ANAS Ing. Vincenzo Pardo	Firmato digitalmente da: 2023.02.06 12:02:30 DIRETTORE DEI LAVORI Ing. Peppino Marascio Ing. Peppino Marascio

2.1.3 PEDEMONTANA DELLE MARCHE
3° stralcio funzionale: Castelraimondo nord – Castelraimondo sud
4° stralcio funzionale: Castelraimondo sud – Innesto S.S. 77 a Muccia

OPERE D'ARTE MINORI
Paratia di controripa in SX dal km 3+502 al km 3+511
Relazione tecnica e di calcolo

SCALA:

DATA:
Gennaio 2022

Codice Unico di Progetto (CUP) F12C03000050021 (Assegnato CIPE 23-12-2015)

Codice Elaborato:	Opera	Tratto	Settore	CEE	WBS	Id. doc.	N. prog.	Rev.
	L0703	213	E	16	OS0006	REL	01	B

REV.	DATA	DESCRIZIONE	Redatto		Controllato	Approvato
A	Luglio 2021	Emissione PED	SGS	C.Agostini	V. Capata	S.Lieto
B	Gennaio 2022	Emissione a seguito istruttoria ANAS del 22.12.2021	SGS	C.Agostini	V. Capata	S.Lieto

I N D I C E

1. GENERALITÀ

Il presente documento costituisce la relazione di calcolo del Progetto Esecutivo di Dettaglio (PED) delle opere geotecniche di sostegno previste nell'ambito dei lavori di completamento dello stralcio funzionale 3° e 4° del tratto della Pedemontana delle Marche.

La redazione del Progetto Esecutivo di Dettaglio ha lo scopo di ottimizzare, laddove possibile, le opere geotecniche oggetto del Progetto Esecutivo. A tal fine, sono state prese a riferimento per la ottimizzazione le valutazioni e le carattezzazioni idrogeologico, geotecniche e sismiche dei siti in esame presenti nel Progetto Esecutivo.

I calcoli e le verifiche di sicurezza sono stati invece adattati alle nuove soluzioni progettuali proposte in conformità alle norme NTC 2008.

2. DOCUMENTI DI RIFERIMENTO

Nella redazione del progetto esecutivo di dettaglio si è fatto riferimento ai seguenti documenti.

2.1 DOCUMENTI DI PROGETTO

- LO703213E02GE0000REL01C - Relazione geologica, geomorfologica e geoidrologica generale
- LO703213E02GE0001REL01D - Relazione geotecnica generale sulle opere all'aperto
- L0703212E04000000REL01C - Relazione sismica
- LO703213E02GE0000PRF05C – Profilo geologico
- LO703213E02GE0001PRF05D – Profilo geotecnico
- L0703213E14GA3500REL01C – Galleria artificiale Seano – Relazione tecnica e di calcolo
- L0703213E14GA3500TVI01B – Galleria artificiale Seano – Planimetria sezioni e profili
- L0703213E14GA3500TVI01B – Galleria artificiale Seano – Sistemazione definitiva profili

2.2 NORMATIVE DI RIFERIMENTO

Nella redazione del progetto esecutivo si è fatto riferimento ai seguenti documenti normativi.

- D.M. 14/01/2008 "*Norme tecniche per le costruzioni" (NTC08).*
- Circolare del 02/02/2009. *Istruzioni per l'applicazione delle "Norme tecniche per le costruzioni" di cui al D.M. del 14/01/2008.*
- UNI EN1990 *EUROCODICE 0 – Criteri generali di progettazione strutturale.*
- UNI EN1991 *EUROCODICE 1 – Azioni sulle strutture*
- UNI EN1992-1-1 *EUROCODICE 2, parte 1-1 Progettazione delle strutture in calcestruzzo. Parte 1-1: Regole generali e regole per gli edifici.*
- UNI EN 1997-1. *EUROCODICE 7, parte 1. Progettazione geotecnica. Parte 1: Regole generali*
- UNI EN 1998-5. *EUROCODICE 8, parte 5. Progettazione delle strutture per la resistenza sismica. Parte 5: Fondazioni, strutture di contenimento ed aspetti geotecnici.*

2.3 SOFTWARE

GeoStru 2021 - www.geostru.eu

RC-Sec (GeoStru – 2021) - www.geostru.eu

PARATIE PLUS – versione 2021 – Harpaceas – www.harpaceas.it

3. DESCRIZIONE DELL' OPERA

Le analisi e verifiche nel seguito esposte fanno riferimento all' opera di sostegno *OS06* situata in SX dell'asse stradale e funzionale al contenimento a monte (controripa) della trincea stradale da realizzare, dal km 3+502 al km 3+511, per uno svuluppo totale di circa 9m.

Nell'ambito del Progetto Esecutivo di Dettaglio (PED), l'ottimizzazione dell'opera in oggetto prevede, in base alle sezioni di applicazione che erano previste dal Progetto Esecutivo, una paratia di pali ϕ1500/2.2m e lunghezza 14m. Tale soluzione consente di ridurre gli interventi di scavo necessari alla realizzazione di tali opere e da luogo a una migliore continuità con le paratie di sostegno della galleria artificiale che sarà realizzata in adiacenza

In Figura 2, Figura 3 e Figura 3 sono rappresentate pianta, profilo e sezioni tipo dell'opera rispettivamente.

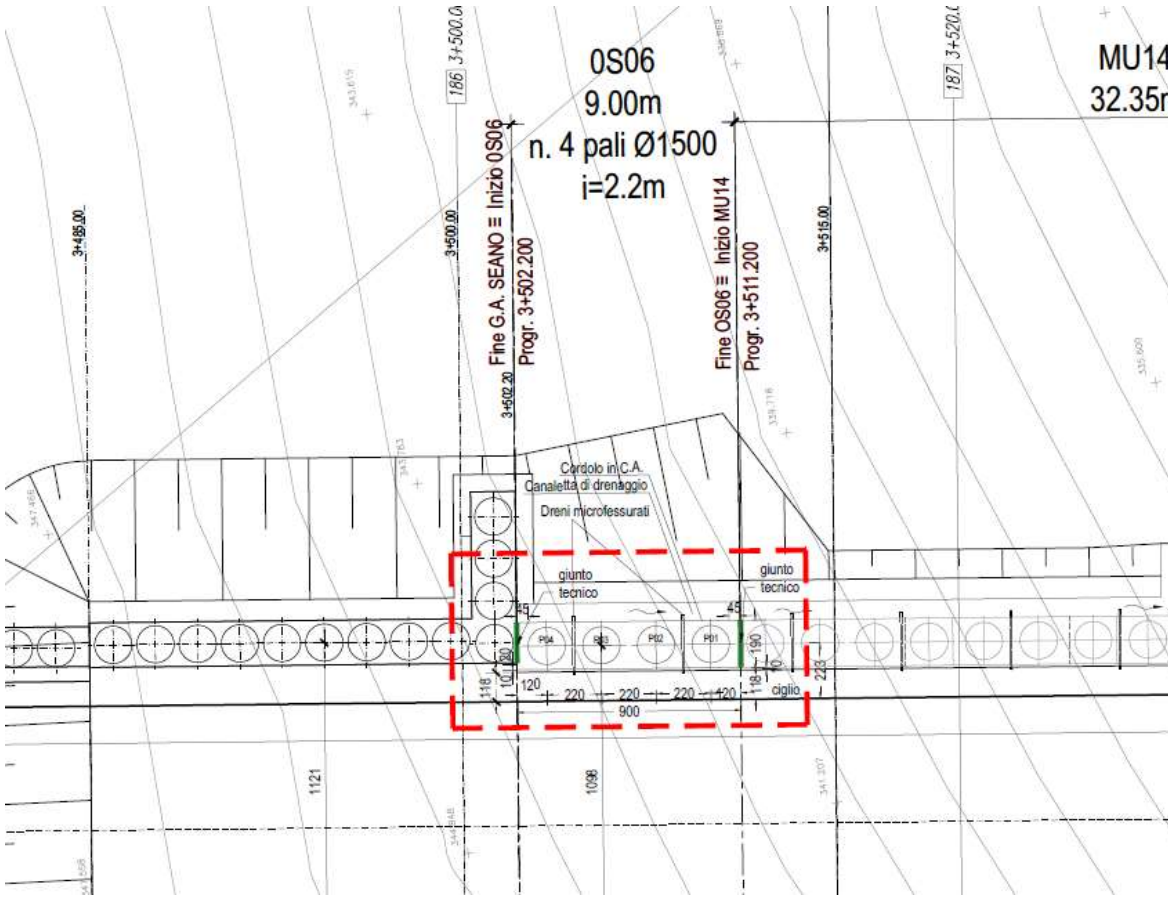


Figura 1 – Pianta della'opera di contenimento

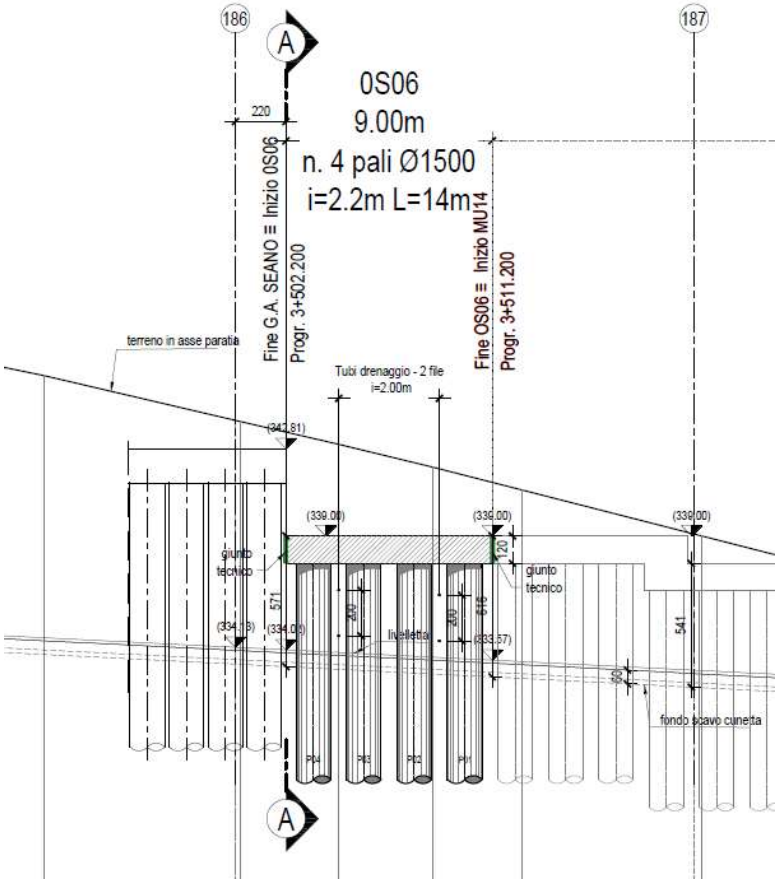


Figura 2 – Profilo longitudinale della'opera di contenimento

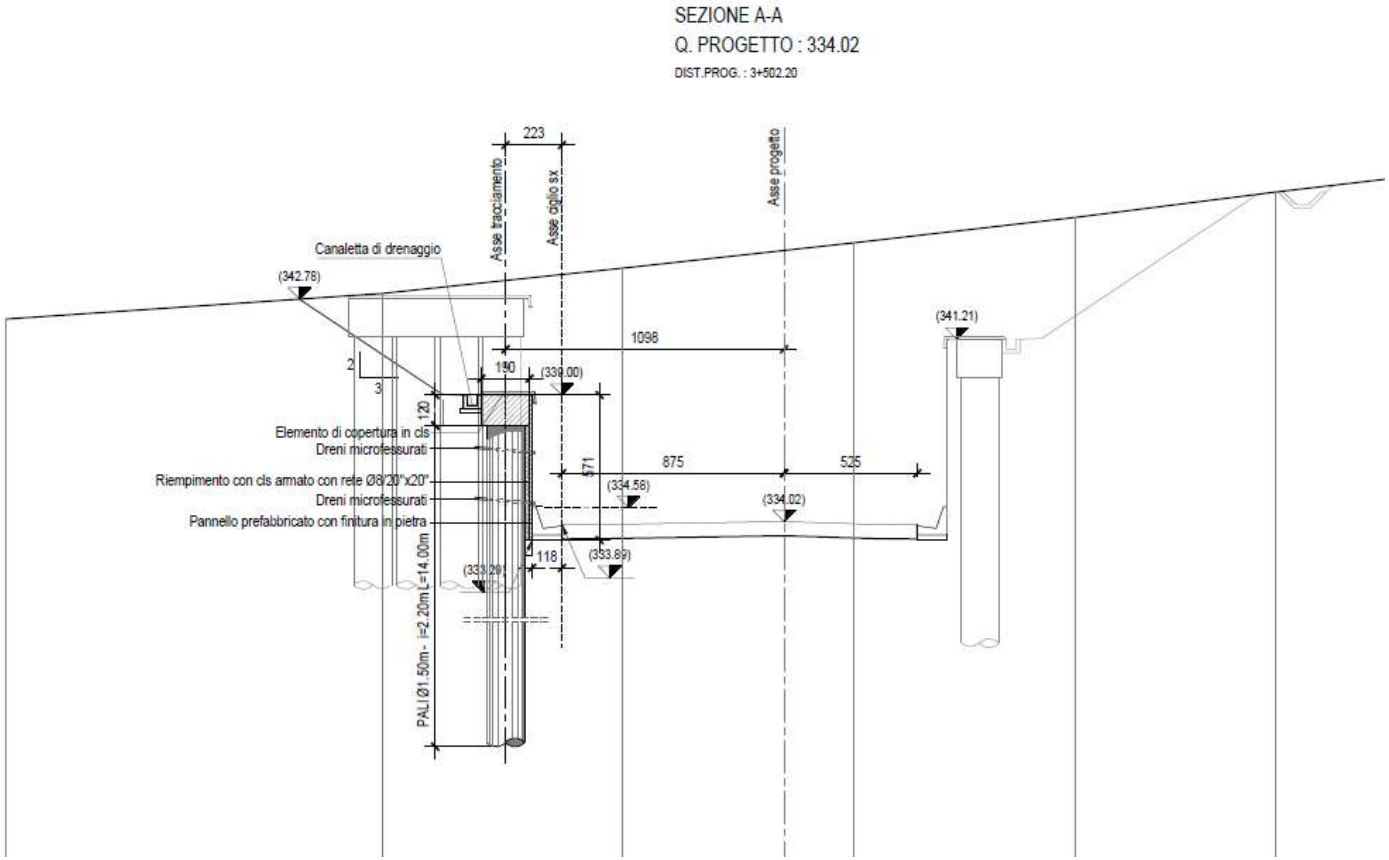


Figura 3 - Sezione trasversale

4. CARATTERISTICHE DEI MATERIALI

4.1 CALCESTRUZZO PER PALI E CORDOLO

Per i getti in opera è stato considerato un calcestruzzo di classe C32/40 le cui proprietà meccaniche sono:

- Resistenza caratteristica cubica a compressione 28 gg: R_{ck} = 40 Mpa
- Resistenza caratteristica cilindrica a compressione 28 gg $f_{ck} = 0.83 \cdot R_{ck}$= 32 Mpa
- Resistenza media cilindrica a compressione: $f_{cm} = f_{ck} + 8$ = 40 Mpa
- Resistenza media a trazione semplice (assiale): $f_{ctm}= 0.3 \cdot f_{ck}^{2/3}$ = 3.02 Mpa
- Resistenza caratteristica corrispondente al frattile 5%: $f_{ctk,0.05}=0.7 \cdot f_{ctm}$=2.12 Mpa
- Modulo elastico $E_{cm}=22 \cdot (f_{cm}/10)^{0.3}$=33.35GPa
- Rapporto massimo acqua/cemento: A/C≤0.50
- Classe di esposizione ambientale: XA2

I valori delle resistenze di progetto sono ottenuti applicando i seguenti fattori di sicurezza:

- Coefficiente parziale di sicurezza relativo al calcestruzzo: γ_c= 1.5
- Coefficiente riduttivo per la resistenza di lunga durata: α_{cc}=0.85

Resistenza di progetto allo SLU

- Resistenza di calcolo a compressione: $f_{cd} = \alpha_{cc} \cdot f_{ck}/\gamma_c$= 18.1 MPa
- Resistenza di calcolo a trazione: $f_{ctd} = f_{ctk,0.05}/\gamma_c$ = 1.41 MPa

Resistenza di progetto allo SLE

- Tensione limite in comb. caratteristica (rara) $\sigma_{c,r} = 0.6 \cdot f_{ck}$ =19.2 MPa
- Tensione limite in comb. quasi permamente $\sigma_{c,qp}=0.45 \cdot f_{ck}$ =14.4 MPa
- Tensione limite fessurazione (trazione) $\sigma_t = f_{ctm}/1.2$ = 2.52 MPa

4.2 ACCIAIO PER BARRE DI ARMATURA

Per le barre di armatura è stato considerato un acciaio del tipo B450C, le cui caratteristiche di resistenza sono:

- Tensione caratteristica di snervamento: $f_{yk} \geq$ 450 MPa
- Tensione caratteristica di rottura: $f_{tk} \geq$ 540 MPa
- Rapporto $(f_t/f_y)_k$: $1.15 \leq (f_t/f_y)_k < 1.35$
- Limite sup. resistenza caratteristica di snervamento: $f_{yk}/(450MPa) \leq 1.25$
- Allungamento: $(A_{gt})k \geq 7.5\%$

Il valore della resistenza di progetto è ottenuto applicando un fattore di sicurezza pari a:

- Coefficiente parziale di sicurezza relativo all'acciaio: γ_s= 1.15

Resistenza di progetto allo SLU

- Resistenza di calcolo dell'acciaio: $f_{yd} = f_{yk}/\gamma_s = 450/1.15 = 391$ MPa

Resistenza di progetto allo SLE

- Tensione massima acciaio $\sigma_s = 0.8\ f_{yk} = 360$ MPa

5. MODELLO GEOTECNICO DI RIFERIMENTO

Nel presente paragrafo viene illustrato il modello geotecnico di riferimento per l'opera in esame basato sui risultati delle campagne geognostiche effettuate e sull'interpretazione geologica dell'area. Per i risultati ottenuti dalle prove in sito e in laboratorio e maggiori dettagli si rimanda alla Relazione Geotecnica Generale. In particolare, l'area in esame risulta caratterizzata dalla presenza di un depositi alluvionali terrazzati a componente limoso sabbiosa e argillosa dello spessore di circa 5.0m sovrastanti il basamento roccioso di base costituito dalla Formazione di Camerino. Il materiale sciolto su cui insiste l'opera, classificato con l'unità geotecnica *Aate* è costituito prevalentemente da terreni a componente limoso-sabbiosa che si presentano in stato da scarsamente a moderatamente consistente.

Analizzando il profilo geologico geotecnico di progetto ed inquadrando il contesto stratigrafico dell'opera oggetto della presente relazione, è possibile dunque assumere come rappresentativa la seguente successione stratigrafica:

Tabella 1 - Stratigrafia di riferimento OS06

Unità geotecnica	Profondità dal piano campagna [m da p.c.]	Descrizione
Aate	0 ÷ 5.0	Depositi alluvionali terrazzati limoso sabbiosi argillosi
Salt	5.0-7.0	Substrato alterato argilloso llimoso/marnoso
Pa	>7.0	Substrato pelitico- arenaceo

5.1 LIVELLO DELLA FALDA

Nell'area in esame la falda è intestata a profondità variabili. Nelle analisi si assume cautelativamente un livello di falda prossima al livello minimo riscontrato e circa ad una profondità di 5 metri dal piano campagna.

5.2 CARATTERIZZAZIONE GEOTECNICA

Ai fini del dimensionamento delle opere di sostegno sono stati considerati i parametri geotecnici riportati nella caratterizzazione presentata in relazione LO703213E02GE0001REL01D.

In termini operativi sono stati adottati i valori caratteristici medi espressi all'interno dei range di progetto.

Tabella 2 - Parametri geotecnici terreno in sito

Unità	γ [kN/m³]	φ' [°]	c' [kPa]	E [MPa]	ν [-]
Aate	19	31	10	40	0.2
Salt	20	26	10	200	0.2
Pa	22.5	27	50	100	0.2

Dove:

γ = peso dell'unità di volume

φ' = angolo di resistenza al taglio

c' = coesione drenata

E = modulo elastico

ν = Modulo poisson

6. CARATTERIZZAZIONE SISMICA

Per la caratterizzazione sismica del sito si rimanda alle considerazioni presenti nella relazione sismica (LO703213E04000000REL01D).

Di seguito si riprortano i parametri di progetto adottati per le verifiche della stabilità dell'opera in caso di azione sismica.

Tabella 3 – Periodo di riferimento azione sismica

Vita nominale V_N	Classe d'uso	Coefficiente d'uso	Periodo di riferimento V_R
50	III	1.5	75

Tabella 4 - Accelerazione (ag), fattore (F0) e periodo (T*c)

V_R [anni]	Stato Limite	PV_R -	T_R [anni]	a_g [g]	F_0 [-]	T_c [s
75	SLO	81%	45	0.078	2.440	0.285
	SLD	63%	75	0.097	2.433	0.295
	SLV	10%	712	0.220	2.544	0.333
	SLC	5%	1462	0.277	2.584	0.343

Lo spettro di risposta elastico per la descrizione della componente orizzontale del moto sismico è infine costruito a partire dai parametri seguenti.

Tabella 5 – Caratterizzazione sito

Categoria di sottosuolo	Categoria topografica	S_s, fattore stratigrafico	St, fattore topografico
C	T1	1.364	1.0

7. VERIFICHE GEOTECNICHE E STRUTTURALI

Di seguito si riassumono le verifiche condotte per la stabilità globale dell'opera in esame e le verifiche strutturali della paratia e delle terre rinforzate.

7.1 VERIFICHE GEOTECNICHE

7.1.1 STABILITA' GLOBALE

La verifica di stabilità globale del complesso opera di sostegno-terrapieno è condotta mediante l'ausilio del modulo di calcolo VSP all'interno del software Paratie Plus, nel caso delle paratie; mentre nel caso dei muri in terra rinforzata le verifiche di stabilità globale sono state condotte mediante l'ausilio del programma di calcolo SLOPE STABILITY ANALYSIS di Geostru.

Per la verifica si fa riferimento al metodo dell'equilibrio limite di Bishop con definizione della superficie critica attraverso il criterio della griglia e centri per la ricerca dei cerchi di scorrimento potenziale, o considerando gli intervalli di ingresso e di uscita di possibili superfici di scorrimento.

Per ulteriori approfondimenti teorici sul metodo di calcolo si rimanda al capitolo 10 della relazione geotecnica generale (LO703213E02GE0001REL01D).

7.1.2 STABILITA' LOCALE

Le verifiche di carattere geotecnico relative all'opera di sostegno con paratia e all'interazione con il terreno circostante sono condotte mediante l'ausilio del software di calcolo Paratie Plus.

7.2 VERIFICHE STRUTTURALI DELLE SEZIONI IN C.A.

Le verifiche delle sezioni in c.a. dei pali della paratia sono state condotte per mezzo del codice RC-Sec (GeoStru – 2021). Le sollecitazioni sulla paratia sono ricavate, in condizioni SLE, SLU ed SLV, dal calcolo svolto con il codice Paratie plus.

7.2.1 STATO LIMITE ULTIMO

La determinazione della capacità resistente della sezione del palo viene effettuata con i criteri di cui al punto 4.1.2.3 delle NTC08 per le seguenti sollecitazioni:

- Pressoflessione (rif. formule al punto 4.1.2.1.2.4 delle NTC 2008);
- Taglio per elementi con armature trasversali (rif. formule al punto 4.1.2.1.3 delle NTC 2008).

7.2.2 STATO LIMITE ESERCIZIO

La verifica nei confronti degli Stati limite di esercizio, consiste nel controllare, con riferimento alle Combinazioni di Calcolo allo SLE, il tasso di Lavoro nei materiali e l'ampiezza delle fessure nel calcestruzzo attesa, secondo quanto di seguito specificato:

- Verifica delle tensioni nel calcestruzzo e acciaio sotto combinazione di carico quasi permanente e rara (ref. punto 4.1.2.2.4.1 delle NTC 2008)
- Verifica a fessurazione calcestruzzo sotto combinazione di carico frequente e combinazione quasi permanente (ref. punto 4.1.2.2.4.2 e Tab. 4.1.IV delle NTC 2008)

  Condizioni Ambientali: Ordinarie

Armature: Poco Sensibili
w < 0.2 mm combinazione Quasi permanente
w < 0.3 mm combinazione frequente.

8. STATI LIMITE E COMBINAZIONI DI CALCOLO

8.1 STATO LIMITE ULTIMO

Per le opere in materiali sciolti, come i rilevati, devono essere effettuate le verifiche con riferimento almeno ai seguenti stati limite:

- SLU di tipo geotecnico (GEO) e di equilibrio di corpo rigido per la verifica della stabilità globale e locale dell'opera di sostegno

Per quanto riguarda l'opera di stabilizzazione, costituita da una paratia di pali, si effettuano le verifiche con riferimento ai seguenti stati limite:

- SLU di tipo strutturale (STR) per il raggiungimento della resistenza negli elementi strutturali

Secondo quanto riportato in normativa DM 14-01-2008, la verifica di stabilità globale dell'insieme terreno-opera deve essere effettuata secondo l'Approccio 1:

- Combinazione 2: (A2+M2+R2)

Le rimanenti verifiche devono essere effettuate secondo almeno uno dei seguenti approcci:

Approccio 1:

- Combinazione 1: (A1+M1+R1)
- Combinazione 2: (A2+M2+R2)

Approccio 2:

(A1+M1+R3)

Per le paratie si deve considerare il solo Approccio 1

Nel caso di muri di dotati di ancoraggi al terreno, le verifiche devono essere effettuate con riferimento al solo Approccio 1.

Lo stato limite di ribaltamento non prevede la mobilitazione della resistenza del terreno di fondazione e deve essere trattato come uno stato limite di equilibrio come corpo rigido (EQU), utilizzando i coefficienti parziali sulle azioni riportati in

Tabella 7 ed adoperando i coefficienti parziali del gruppo (M") per il calcolo delle spinte.

I coefficienti per le azioni A, per i parametri geotecnici M e per le resistenze R sono riassunti nelle seguenti tabelle.

Tabella 6 – Coefficienti parziali per le azioni SLU

Carichi tipo	Effetto	Coefficiente parziale	A1	A2
Permenenti G1	Favorevole	γ_{G1}	1.0	1.0
	Sfavorevole		1.3	1.0
Permanenti non strutturali G2	Favorevole	γ_{G2}	0.8	0.8
	Sfavorevole		1.5	1.3
Variabili Q	Favorevole	γ_{Q}	0	0
	Sfavorevole		1.5	1.3

Tabella 7 – Coefficienti parziali per i parametri del terreno SLU

Carichi tipo	Coefficiente parziale	M1	M2
Tangente angolo resistenza al taglio	$\tan \varphi'_k$	1.0	1.25
Coesione efficace	c'_k	1.0	1.25
Resistenza non drenata	c_{uk}	1.0	1.4
Peso unità di volume	γ	1.0	1.0

Tabella 8 – Coefficienti parziali resistenza R2 verifiche di opere in materiali sciolti e fronti di scavo

Verifica	R2
Stabilità globale	$\gamma_R = 1.1$

Tabella 9 – Coefficienti parziali resistenza γ_R per le STR e GEO di muri di sostegno

Verifica	R1	R2	R3
Capacità portante fondazione	$\gamma_R = 1.0$	$\gamma_R = 1.0$	$\gamma_R = 1.4$
Scorrimento	$\gamma_R = 1.0$	$\gamma_R = 1.0$	$\gamma_R = 1.1$
Resistenza terreno valle	$\gamma_R = 1.0$	$\gamma_R = 1.0$	$\gamma_R = 1.4$

In presenza di azioni sismiche, lo stato limite ultimo considerato comprende lo Stato Limite di Salvaguardia della Vita (SLV).

I coefficienti parziali sulle azioni e parametri geotecnici sono posti pari all'unità mentre i coefficienti parziali relativi alle resistenze risultano invariati rispetto a quelli considerati per le verifiche in condizioni statiche.

8.2 STATO LIMITE ESERCIZIO

Per le verifiche strutturali allo stato limite di esercizio sono stati considerati i seguenti coefficienti parziali per le azioni:

Tabella 10 – Coefficienti parziali per le azioni SLS Rara (caratteristica)

Carichi tipo	Effetto	γ	Ψ_0
Permanenti G1	Sfavorevole	1.0	-
Permanenti G2	Sfavorevole	1.0	-
Variabili Q	Sfavorevole	1.0	-

Tabella 11 – Coefficienti parziali per le azioni SLS Frequente

Carichi tipo	Effetto	γ	Ψ_1
Permanenti G1	Sfavorevole	1.0	-
Permanenti G2	Sfavorevole	1.0	-
Variabili Q	Sfavorevole	1.0	0.75

Tabella 12 – Coefficienti parziali per le azioni SLS q.permanente

Carichi tipo	Effetto	γ	Ψ_2
Permanenti G1	Sfavorevole	1.0	-
Permanenti G2	Sfavorevole	1.0	-
Variabili Q	Sfavorevole	1.0	0

9. ANALISI DEI CARICHI

9.1 CARICHI PERMANENTI

Per carichi permanenti si intendono le azioni associate ai pesi propri del palo, del terrapieno spingente e dell'acqua di falda, valutati in automatico dal Software di calcolo utilizzato.

9.2 AZIONE SISMICA

Per la valutazione degli effetti dell'azione sismica sulle masse e sui coefficienti di spinta del terreno, si è fatto riferimento al metodo pseudo-statico previsto al punto 7.11.3.5.2 - "Metodi di Analisi" - delle NTC2008 secondo il quale, nelle verifiche allo stato limite ultimo, i valori dei coefficienti sismici orizzontale kh e verticale kv possono essere valutati mediante le seguenti espressioni:

$$k_h = \beta_s \cdot \frac{a_{max}}{g}$$

$$k_v = \pm 0.5 \cdot k_h$$

dove

a_{max} = accelerazione orizzontale massima attesa al sito

g = accelerazione di gravità.

In assenza di analisi specifiche della risposta sismica locale, l'accelerazione massima può essere valutata con la relazione:

$$a_{max} = S \cdot a_g = S_s \cdot S_t \cdot a_g$$

dove

S = coefficiente che comprende lìeffetto dell'amplificazione stratigrafica (S_s) e dell'amplificazione topografica (S_t).

a_g = accelerazione orizzontale massima attesa su sito di riferimento rigido.

Di seguito sono riportati i valori di β_S e β_m consierati per i fronti di scavo (utilizzati nelle analisi globali), per i muri di sostegno, e per le paratie, in accordo a quanto indicato nella NTC2008.

Tabella 13 – Coefficienti dell'accelerazione massima attesa al sito – Fronti di scavo e rilevati

	Categoria di sottosuolo	
	A	B, C, D, E
	β_s	β_s
$0.2<a_g(g)\leq 0.4$	0.3	0.28
$0.1<a_g(g)\leq 0.2$	0.27	0.24
$a_g(g)\leq 0.1$	0.2	0.2

Tabella 14 – Coefficienti dell'accelerazione massima attesa al sito – Muri di sostegno

	Categoria di sottosuolo	
	A	B, C, D, E
	β_m	β_m
$0.2<a_g(g)\leq 0.4$	0.31	0.31
$0.1<a_g(g)\leq 0.2$	0.29	0.24
$a_g(g)\leq 0.1$	0.20	0.18

Nel caso delle paratie, le componenti orizzontale e verticale *a*h e *a*v dell'accelerazione equivalente devono essere ricavate in funzione delle proprietà del moto sismico atteso nel volume di terreno significativo per l'opera e della capacità dell'opera di subire spostamenti senza significative riduzioni di resistenza.

Il valore di a_h può essere legato all'accelerazione di picco a_{max} atteso nel periodo di riferimento mediante la relazione:

$$a_h = k_h \times g = \alpha \ \beta \ a_{max}$$

dove *g* è l'accelerazione di gravità, k_h è il coefficiente sismico in direzione orizzontale, $\alpha < 1$ è un coefficiente che tiene conto della deformabilità dei terreni interagenti con l'opera e $\beta < 1$ è un coefficiente funzione della capacità dell'opera di subire spostamenti senza cadute di resistenza.

Per le paratie si può porre $a_v = 0$.

Il valore del coefficiente α può essere ricavato a partire dall'altezza complessiva *H* della paratia e dalla categoria di sottosuolo mentre il coefficiente β risulta funzione del massimo spostamento u_s che l'opera può subire, che deve risultare:

$u_s \leq 0.005\ H$ H = lunghezza complessiva della paratia

Entrambi i coefficienti sono espressi nei diagrammi riportati al cap. 7.11.6.3.2 delle NTC08 e di seguito esplicitati per il caso in oggetto.

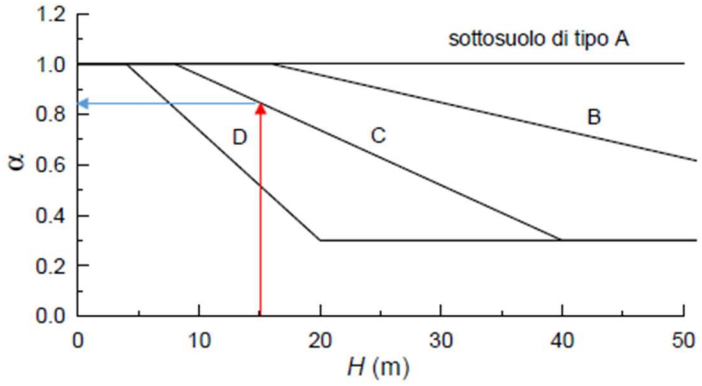


Figura 7.11.2 – *Diagramma per la valutazione del coefficiente di deformabilità α*

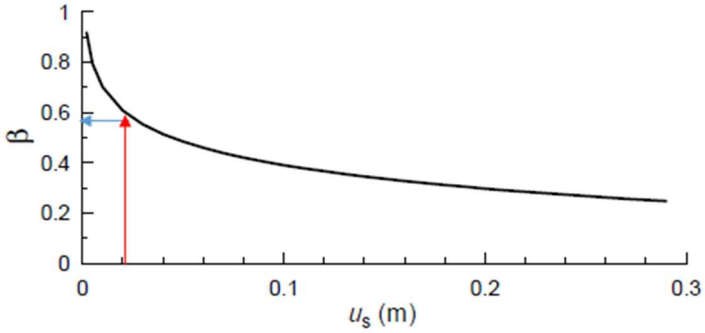


Figura 7.11.3 – *Diagramma per la valutazione del coefficiente di spostamento β.*

I parametri di progetto dell'azione sismica considerati nell'analisi dell'opera oggetto della presente relazione sono riassunti nella tabella seguente.

Tabella 15 – Parametri progetto azione sismica equivalente – Fronti di scavo e rilevati

Ss	S_T	a_g	a_{max}	β	k_h	k_v
1.364	1.0	0.22g	0.30g	0.28	0.084	±0.042

Tabella 16 – Parametri progetto azione sismica equivalente – Paratie

Ss	S_T	a_g	a_{max}	k_h	α	β	K_h
1.364	1.0	0.22g	0.30g	0.15	0.85	0.57	0.145

10. ANALISI E VERIFICHE

Si riportano di seguito risultati delle analisi e verifiche per le sezioni di calcolo considerate.

10.1 SEZIONI DI CALCOLO

Ai fini del dimensionamento dell'opera di sostegno è stata considerata una sezione in grado di rappresentare le condizioni più sfavorevoli per le opere di sostegno, con un'altezza di scavo massima di 6m.

Di seguito sono sintetizzati i risulati delle analisi eseguite.

Per il dettaglio delle analisi geotecniche e strutturali, fare riferimento agli ALLEGATI A e B rispettivamente.

10.2 RISULTATI DELLE ANALISI: SEZIONE PARATIA

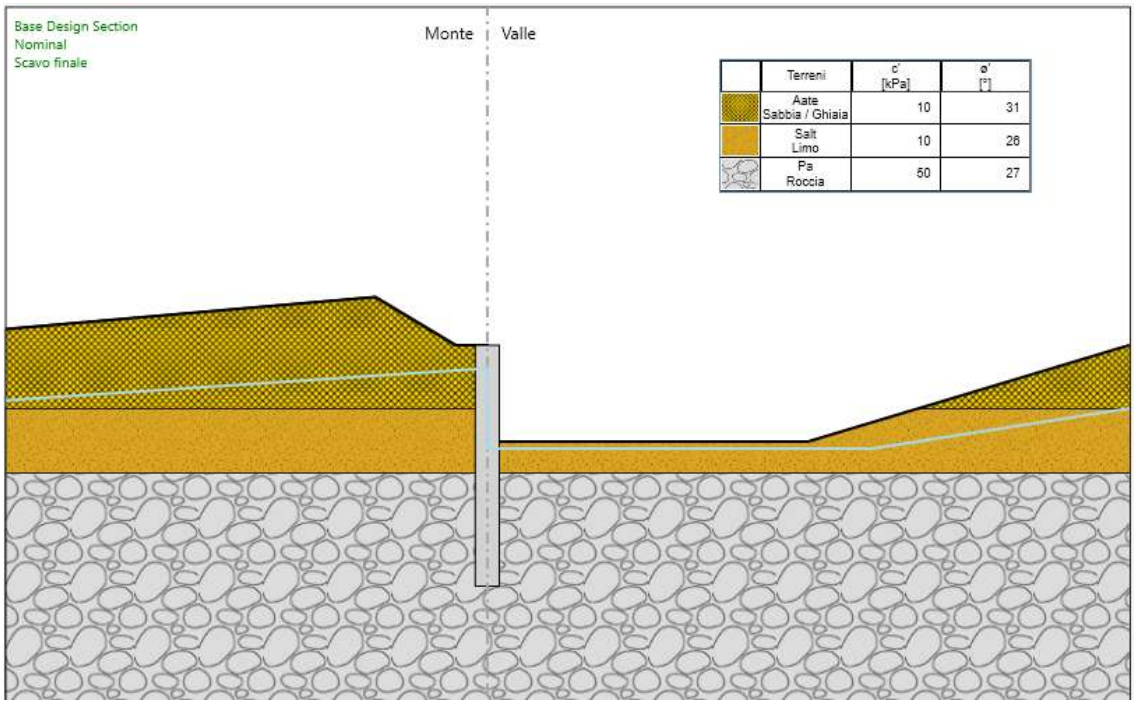


Figura 4– Modello di calcolo Paratie Plus

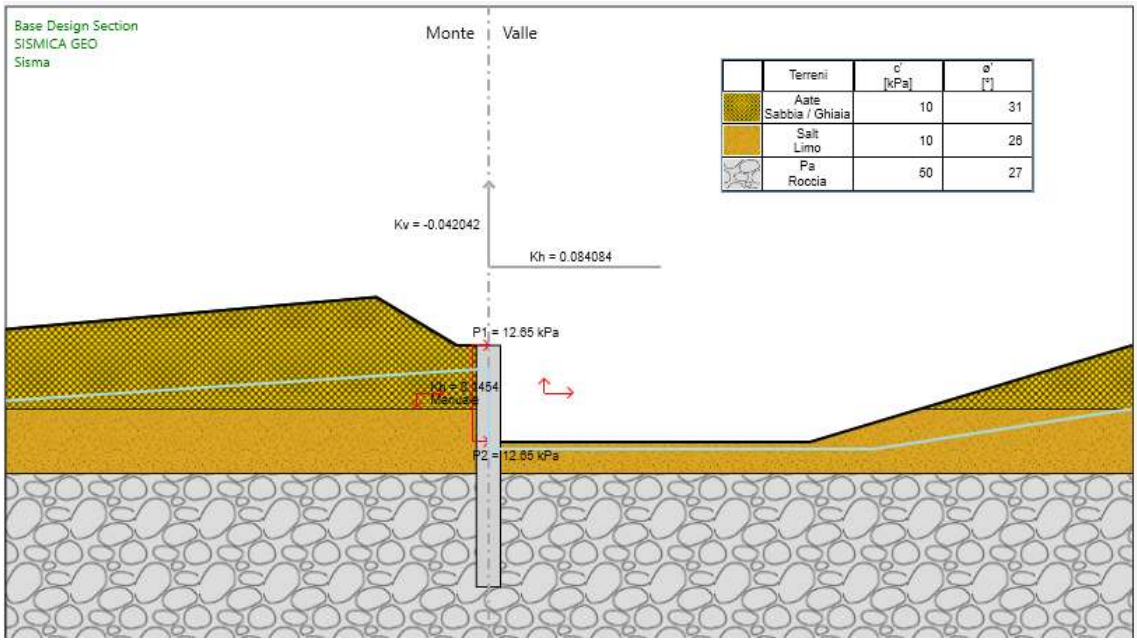


Figura 5– Modello di calcolo Paratie Plus – condizioni sismiche

10.2.1 Sollecitazioni nella paratia

Si presentano di seguito i risultati delle analisi per quanto riguarda le sollecitazioni nella paratia di pali. Le figure seguenti riportano una rappresentazione della sezione analizzata e le sollecitazioni nella paratia in SLU e SLV.

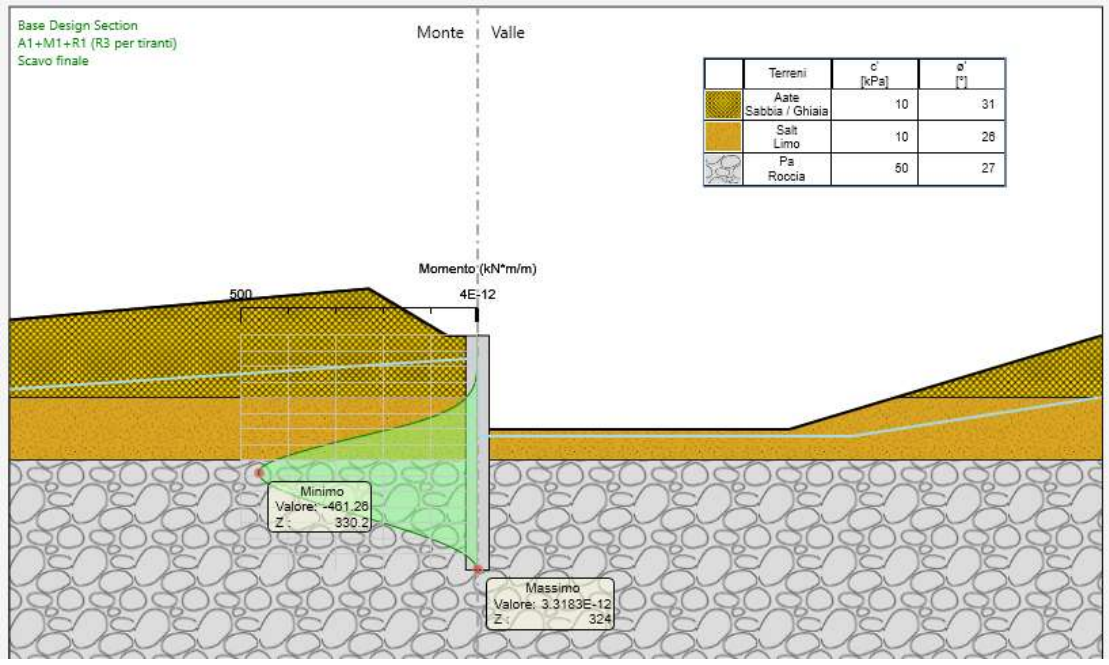


Figura 6– Momento flettente nella paratia - configurazione finale (SLU)

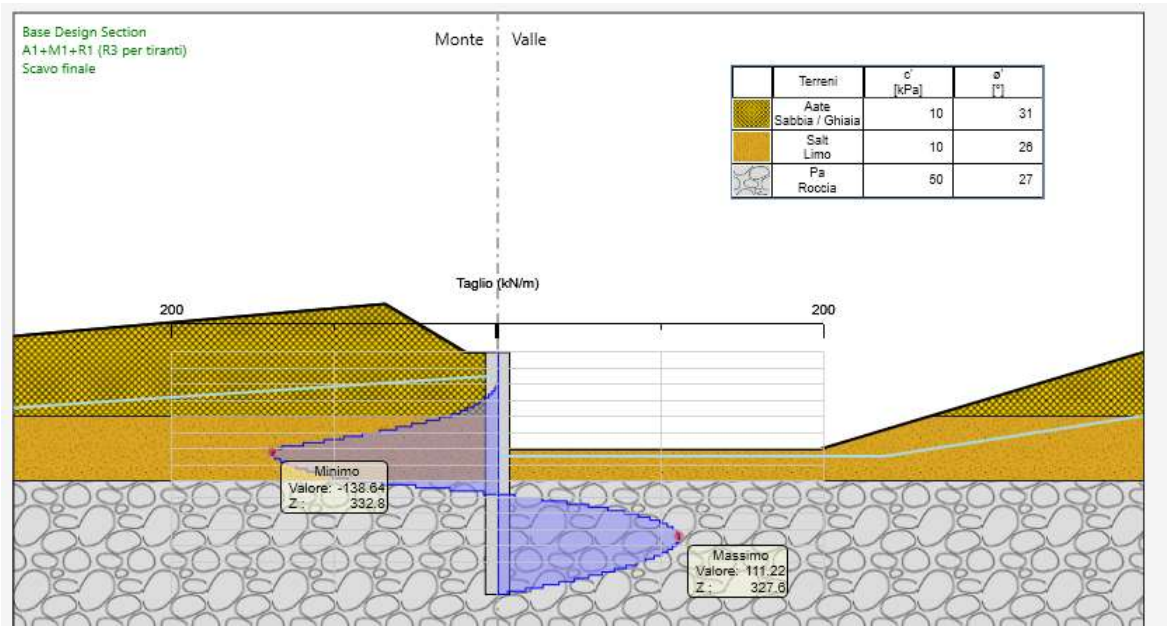


Figura 7 – Taglio nella paratia - configurazione finale (SLU)

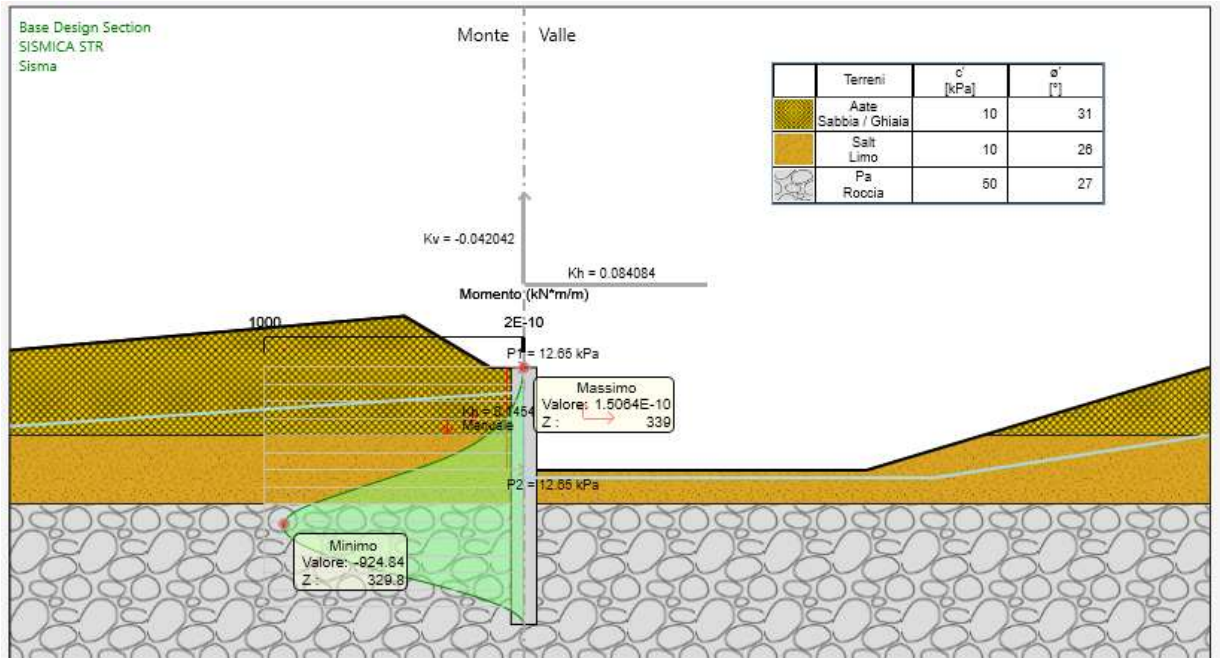


Figura 8– Momento flettente nella paratia - configurazione finale (SLV)

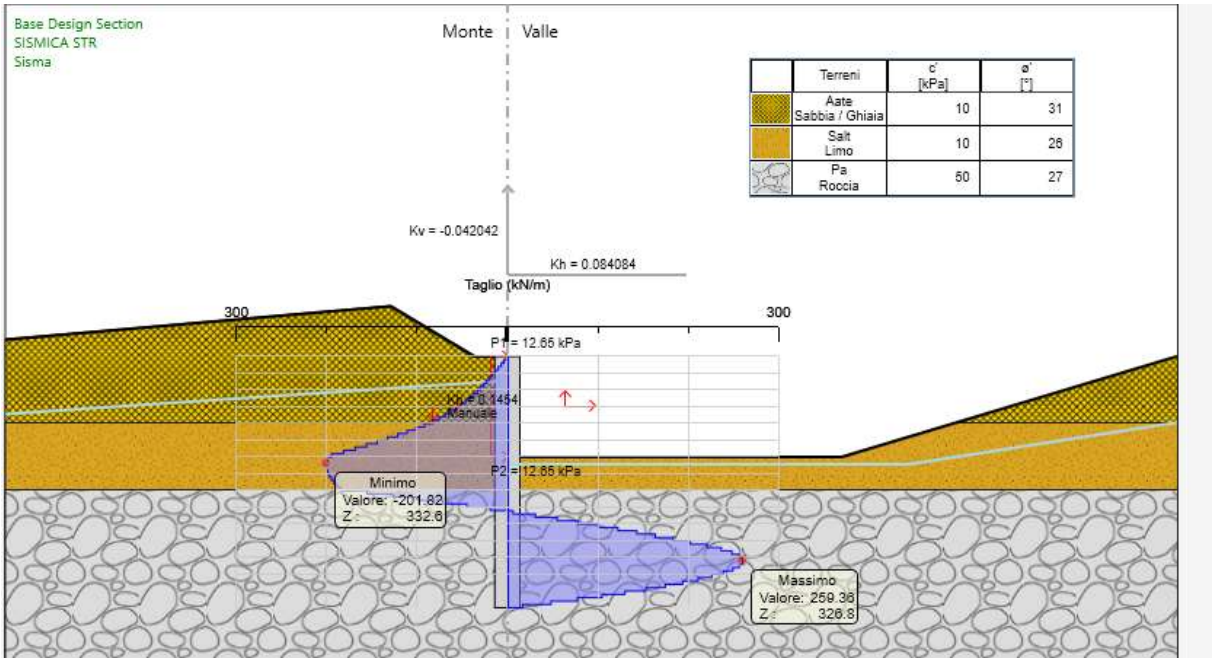


Figura 9– Taglio nella paratia - configurazione finale (SLV)

10.2.2 Verifica sulla spinta mobilitata al piede della paratia

È di seguito riportata la verifica sull'aliquota di spinta passiva mobilitata al piede della paratia.

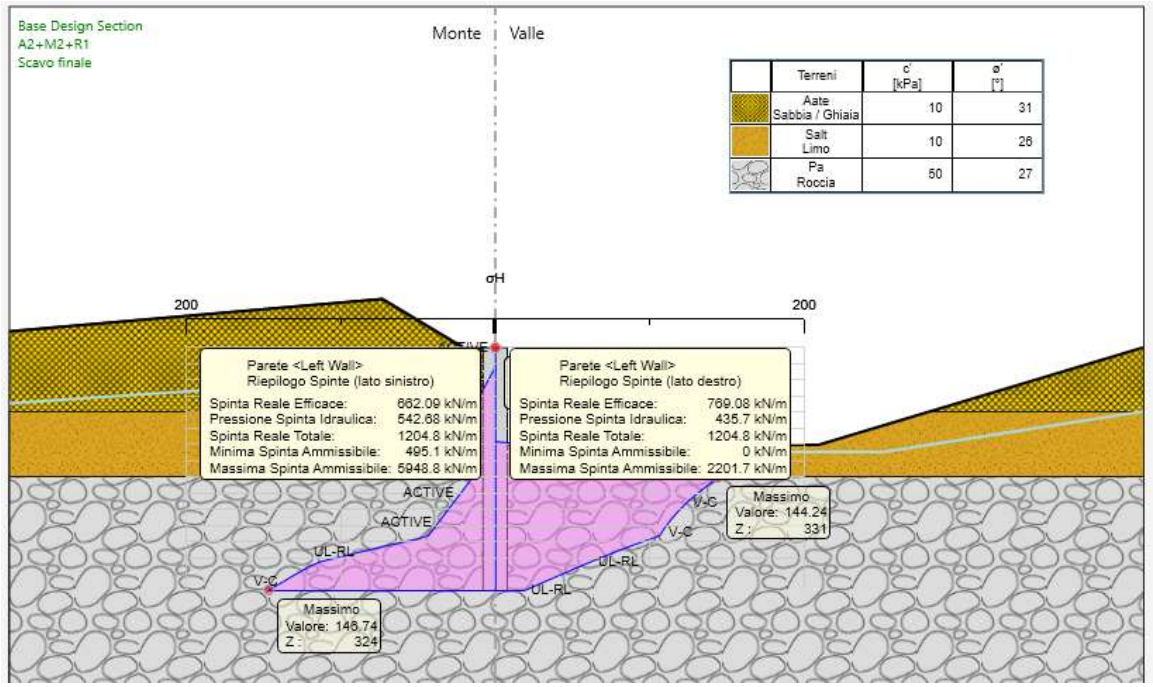


Figura 10 – Verifica sulla spinta mobilitata al piede delle paratia - configurazione finale (SLU)

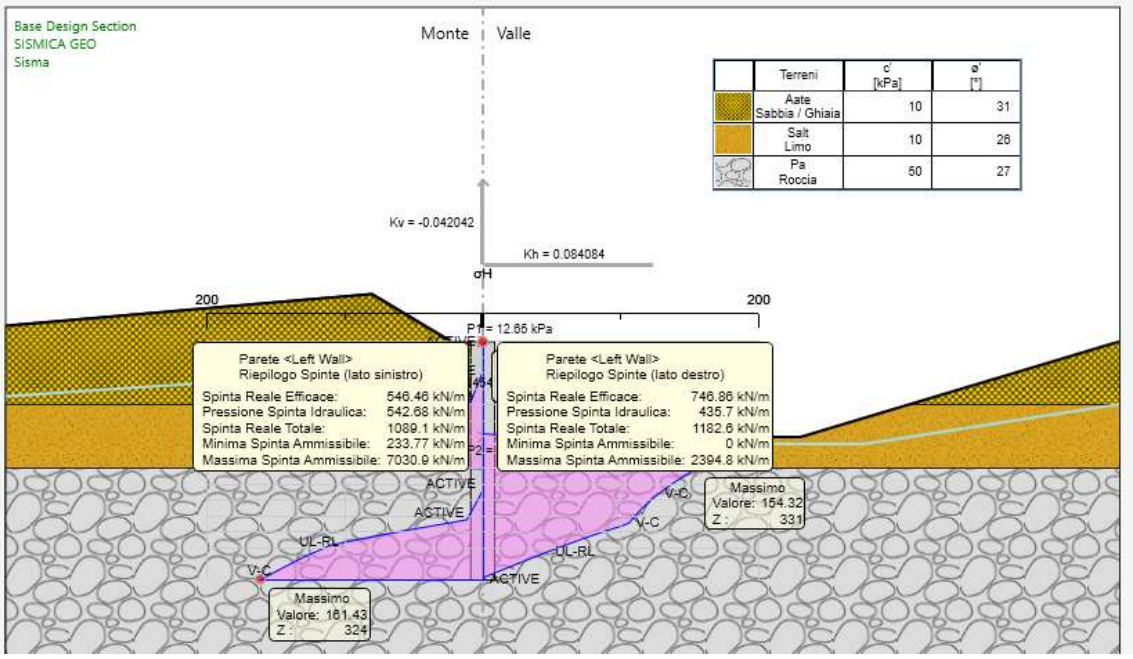


Figura 11– Verifica sulla spinta mobilitata al piede delle paratia - configurazione finale (SLV)

Tabella 17 Mobilitazione della spinta passiva al piede della paratia

	SLU (A2+M2+R1)	SLV (SISMICA GEO)
Rp (%)	35	32

10.2.3 Stima degli spostamenti della paratia

Nella seguente figura si riportano i grafici relativi agli spostamenti SLE nella configurazione finale in condizioni statiche.

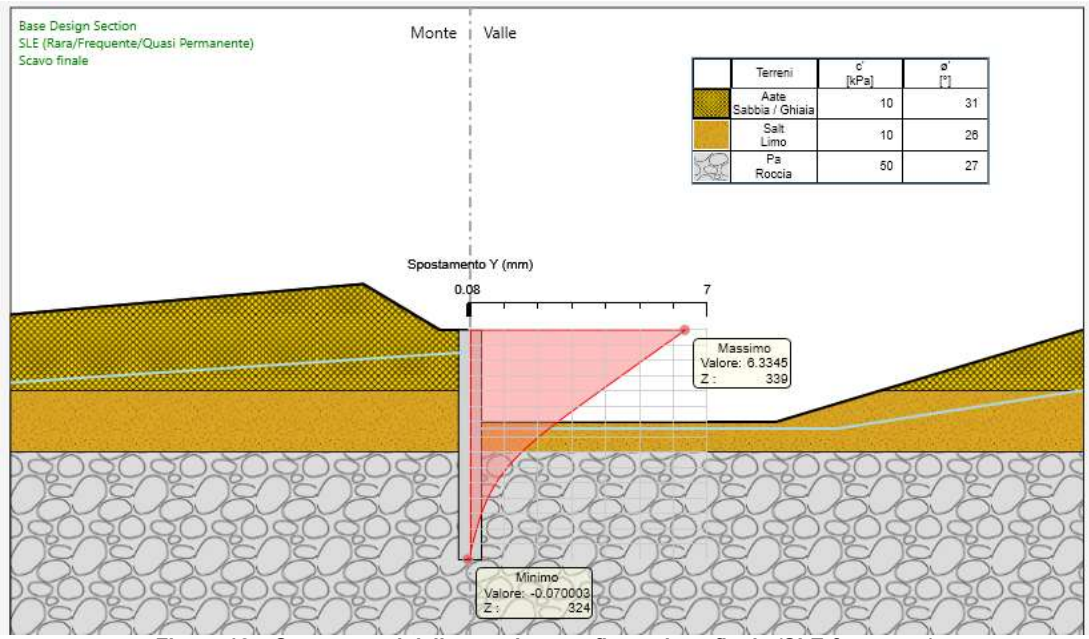


Figura 12 – Spostamenti della paratia – configurazione finale (SLE-frequente)

10.2.4 Stabilità globale

Nelle seguenti figure si riportano i risultati delle verifiche di stabilità globale per le condizioni statiche e sismiche.

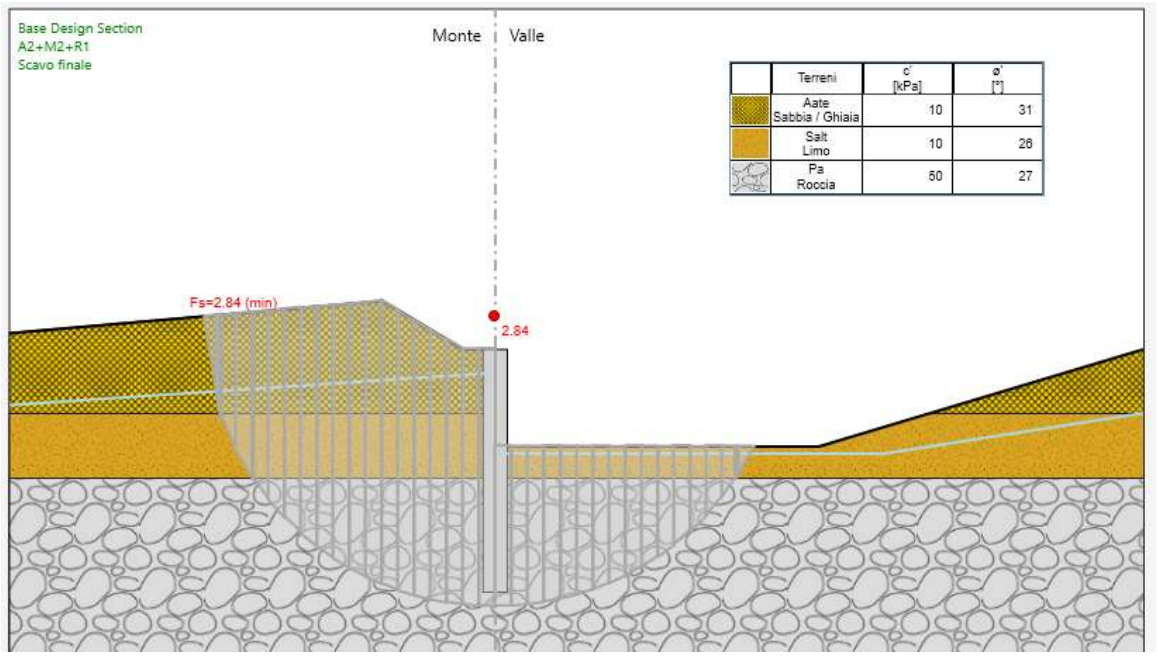


Figura 13 – Verifica di stabilità globale – configurazione finale (SLU)

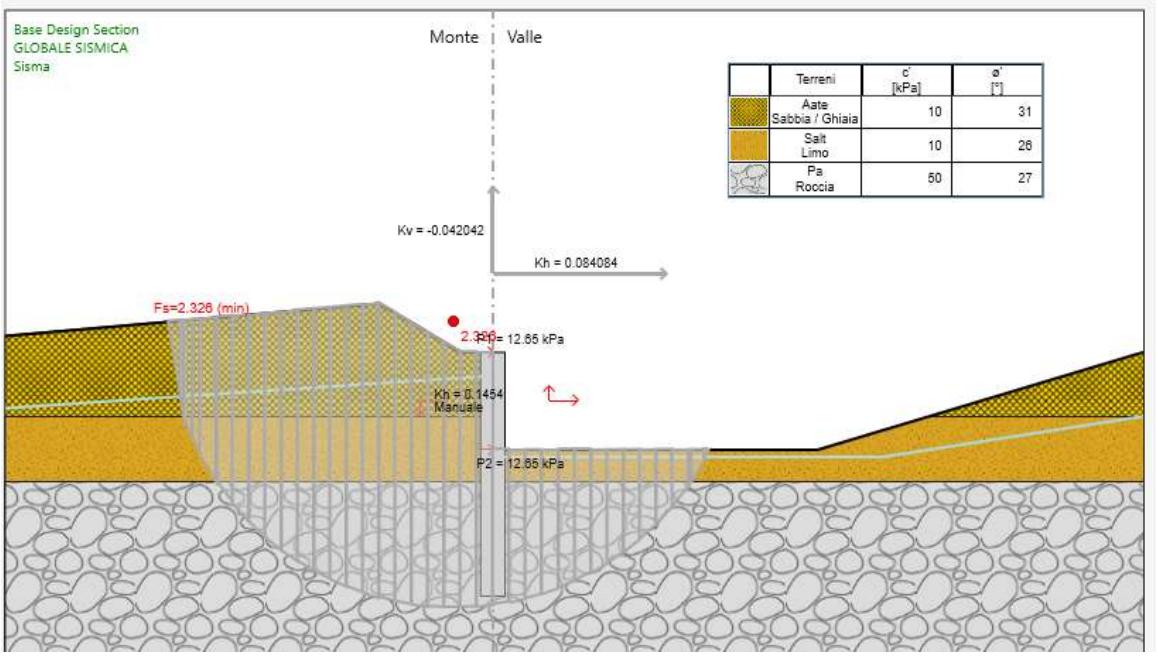


Figura 14 – Verifica di stabilità globale – configurazione finale (SLV)

In entrambi i casi di analisi è stato ottenuto un coefficiente di sicurezza FS, relativo alla superficie di scorrimento più critica, superiore all'unità. Considerando il valore assunto per il coefficiente parziale

di resistenza che riduce la resistenza disponibile del terreno, γ_R, pari a 1.1, secondo quanto prescritto dalla normativa considerata, le verifiche di sicurezza risultano essere soddisfatte.

10.2.1 Verifiche strutturali palo

L'opera di sostegno è costituita da pali di diametro 1500m ad interasse 2.2m di lunghezza complessiva, cordolo di testa escluso, pari a 14.0m.

Si prevede la seguente armatura di calcolo:

Pali

- Armatura longitudinale: 1° Gabbia (inferiore): 26+26Φ26mm
  2° Gabbia (superiore): 26Φ26mm.
- Armatura a taglio: Spirali Φ16/20cm;
- Copriferro netto: 90mm

Il quantitativo di armatura minima per ogni elemento strutturale è stato inoltre verificato nei rispetti dei requisiti minimi come prescritto da normativa NTC08.

La paratia è stata verificata per le seguenti combinazioni di carico:

Tabella 18 – Sollecitazioni verificate pali

STATO LIMITE	N [kN]	M [kNm]	T [kN]
SLU (A1+M1+R1)	-	1015	305
SLV	-	2035	571
SLE Rara	-	781	-
SLE Frequente	-	781	-
SLE Q. Permanente	-	781	-

PRESSOFLESSIONE STATO LIMITE ULTIMO

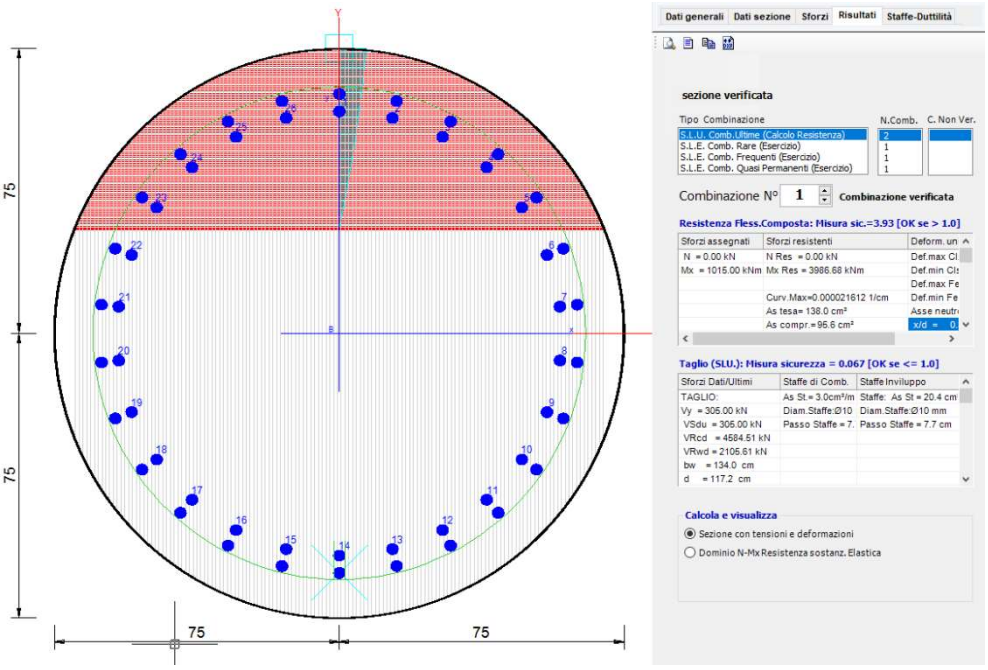


Figura 15 – Combinazione 1 (M_{max}) – SLU

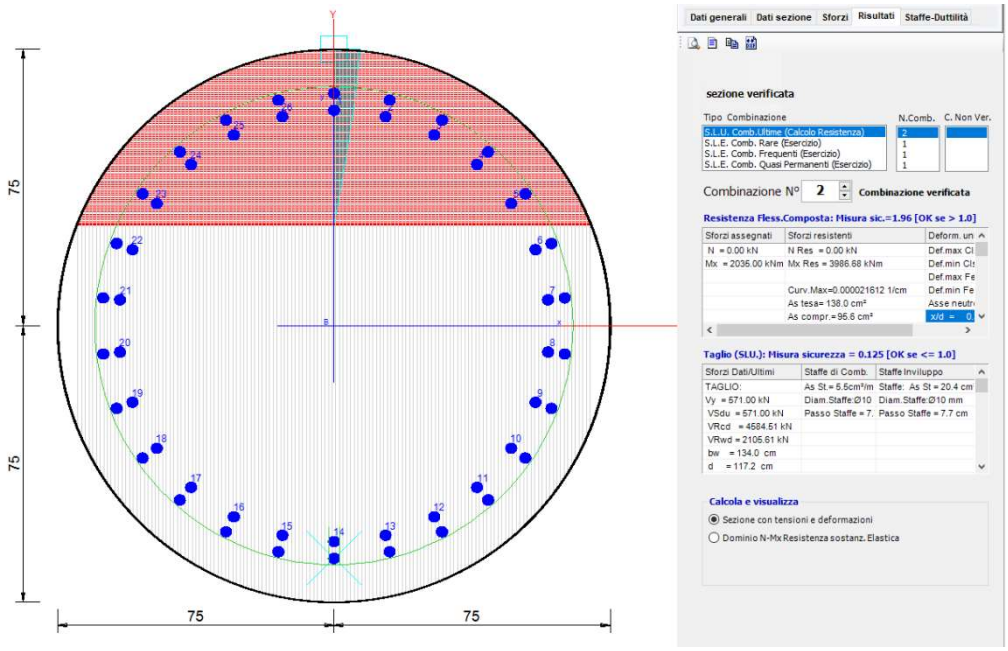


Figura 16 – Combinazione 2 (M_{max}) – SLV

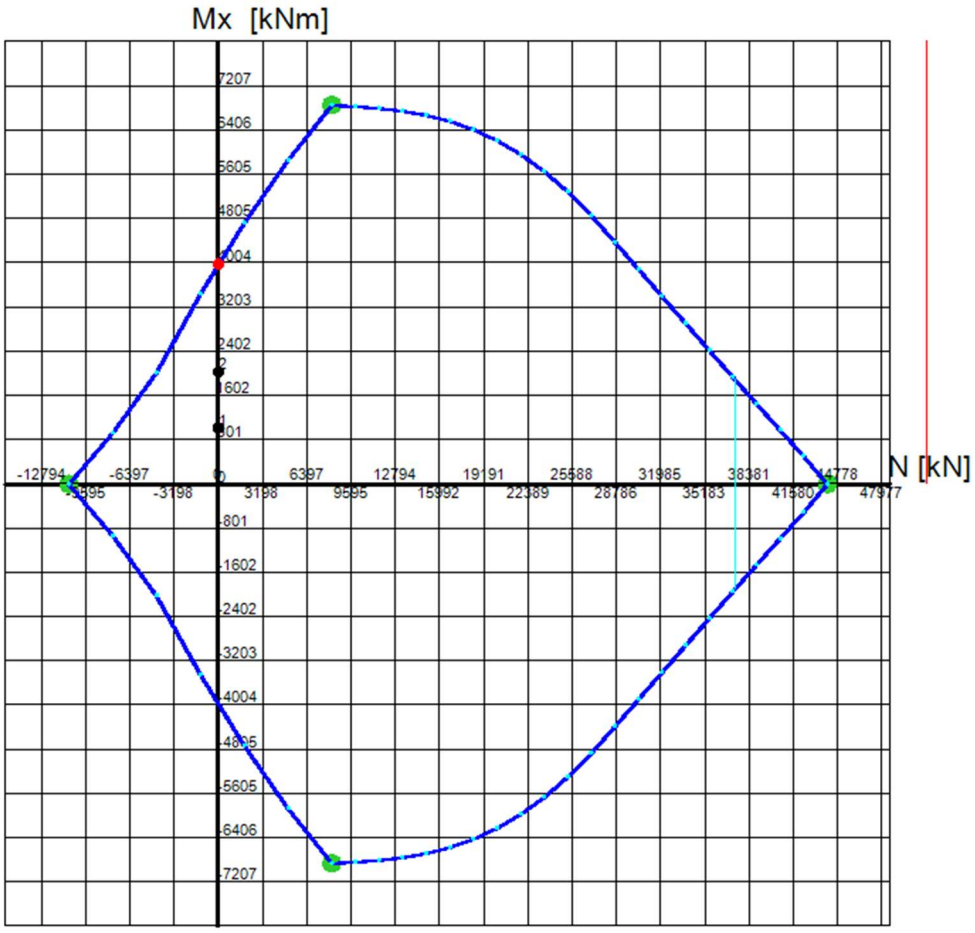


Figura 17 – Dominio M-N – SLU e SLV

STATO LIMITE ESERCIZIO

Di seguito sono riportate le massime sollecitazioni nelle barre e nel calcestruzzo durante le fasi di esercizio e l'apertura massima delle fessure nella sezione maggiormente sollecitate degli elementi strutturali.

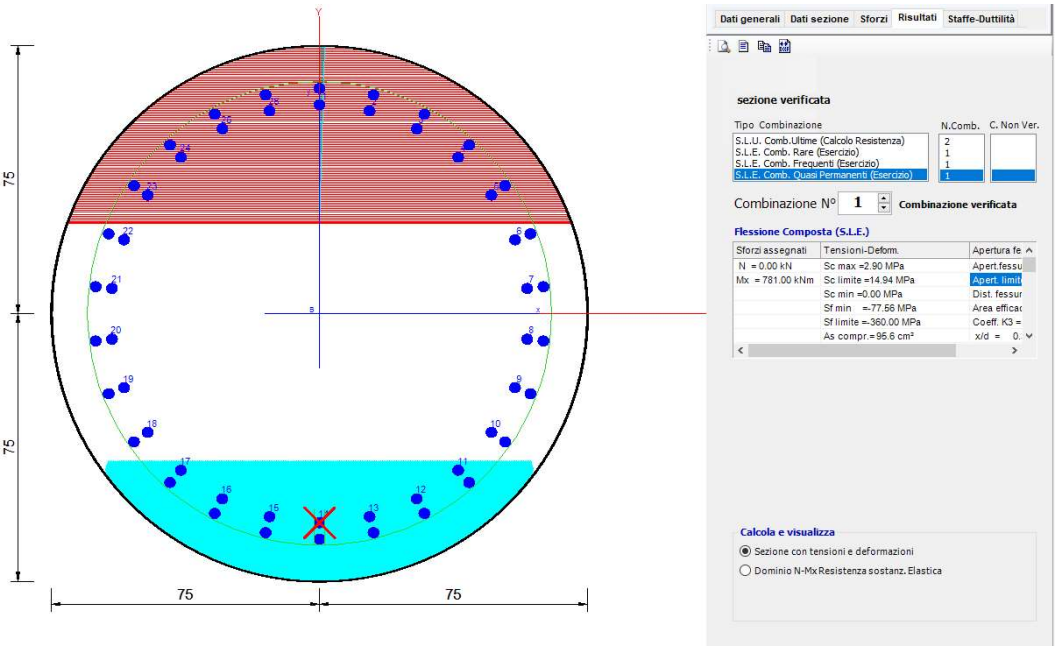


Figura 18 – Combinazione 3 – SLE – Verifiche di fessurazione e di tensione sulle barre

Tabella 19 – Verifica tensioni

COMBINAZIONE	TENSIONI ESERCIZIO	TENSIONI AMMISSIBILI
S.L.E. RARA	σs = 77.56 MPa	360 MPa
	σc = 2.9 MPa	19.9 MPa
S.L.E. QUASI PERMAMENTE	σs = 77.56 MPa	360 MPa
	σc = 2.9 MPa	14.9 MPa

Tabella 20 – Verifica apertura fessure

COMBINAZIONE	MAX. APERTURA	FESSURA LIMITE
S.L.E. FREQUENTE	0.152 mm	0.3 mm
S.L.E. QUASI PERMANENTE	0.152 mm	0.2 mm

10.2.2 Verifica strutturale trave di coronamento

Per la verifica strutturale della trave di coronamento si considera, cautelativamente, che 1 palo non contribuisca al contenimento delle spinte. Ipotizzando uno schema di trave incastrata alle estremità, di luce pari a 4.4m, si ricavano le sollecitazioni con cui effetturare le verifiche (in condizioni SLU).

Risulta:

$$q = Vmax = 202\ kN/m$$

$$M = (q \cdot i^2)/12 = 326\ kNm$$

$$V = 0.5 \cdot q \cdot i = 444\ kN$$

Si prevede la seguente carpenteria ed armatura di progetto:

- Larghezza trave = 190cm / Altezza = 120cm
- Armatura longitudinale di parete: 6+6Φ26mm;
- Armatura longitudinale di base: 8+8Φ26mm;
- Staffe: Φ16/20cm;
- Copriferro netto: 5cm

Il copriferro netto è stato calcolato considerando i limiti per le travi su terreno preparato secondo quanto riportanto in normativa quantitativi di armatura soddisfano i requisiti da normativa UNI EN 1536:2003 e ENV 1992-1-1.

$$c_{nom} = c_{min} + \Delta_c = 40mm + 10mm = 50\ mm$$

Il quantitativo di armatura longitudinale è stato verificato nei rispetti dei requisiti minimi e massimi da normativa UNI EN 1536:2003 e NTC08.

Il quantitativo di armatura trasversale è stato verificato nei rispetti dei requisiti minimi da normativa NTC08.

$$A_{\mathrm{sw}} = 2 \text{ bracci } \phi 16/20 = 2010\ \frac{\mathrm{mm}^2}{m}$$

$$A_{\mathrm{sw,min}} = 1.5\ \mathrm{b} = 1800\ \frac{\mathrm{mm}^2}{m}$$

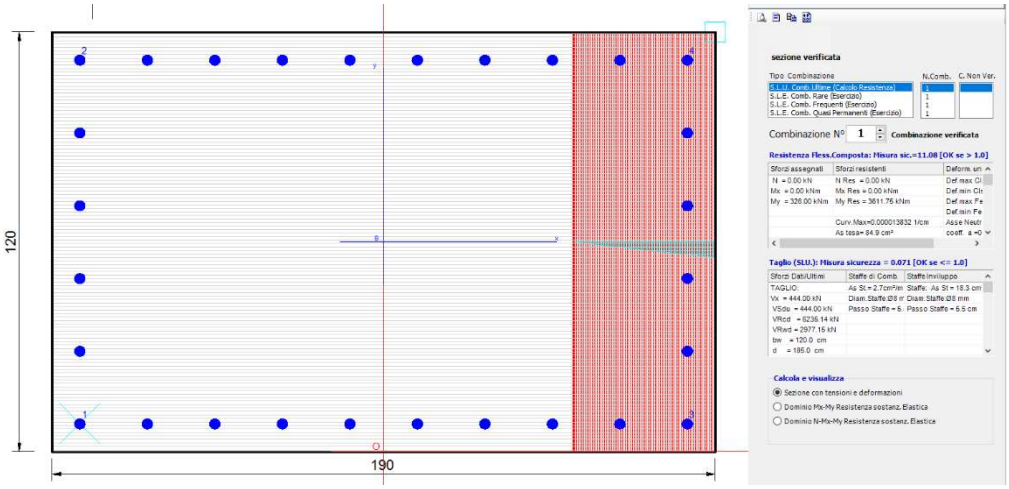


Figura 19 – Verifiche armatura cordolo – SLU

Tabella 21 – Verifica tensioni

COMBINAZIONE	TENSIONI ESERCIZIO	TENSIONI AMMISSIBILI
S.L.E. RARA	σs = 18.84 MPa	360 MPa
	σc = 0.40 MPa	19.18 MPa
S.L.E. QUASI PERMAMENTE	σs = 18.84 MPa	360 MPa
	σc = 0.40 MPa	14.38 MPa

Tabella 22 – Verifica apertura fessure

COMBINAZIONE	MAX. APERTURA	FESSURA LIMITE
S.L.E. FREQUENTE	0.046 mm	0.3 mm
S.L.E. QUASI PERMANENTE	0.046 mm	0.2 mm

Le verifiche risultano soddisfatte.

11. CONCLUSIONI

La presente relazione tecnica e di calcolo riassume i criteri di dimensionamento, le analisi e le verifiche condotte sulle opere di sostegno richieste per il contenimento in valle del rilevato stradale dal km 6+860 al km 6+917 dei Lotti 3 e 4 dell'opera Pedemontana delle Marche.

Le verifiche geotecniche e strutturali risultano soddisfatte per gli stati limite considerati secondo le normative di riferimento.

APPENDICE A

REPORT DI CALCOLO VERIFICHE GEOTECNICHE

PARATIE plus™

Report di Calcolo

Sommario
Contenuto Sommario

1. Descrizione del Software

ParatiePlus è un codice agli elementi finiti che simula il problema di uno scavo sostenuto da diaframmi flessibili e permette di valutare il comportamento della parete di sostegno durante tutte le fasi intermedie e nella configurazione finale.

2. Descrizione della Stratigrafia e degli Strati di Terreno

Tipo : POLYLINE
Punti
(-20;340)
(-8.5;341)
(-1;342)
(5;342.5)
(10;343)
(20;344)
(35;346)
(50;348)
(50;300)
(-20;300)
OCR : 1

Tipo : POLYLINE
Punti
(-20;335)
(10;335)
(50;335)
(50;300)
(-20;300)
OCR : 1

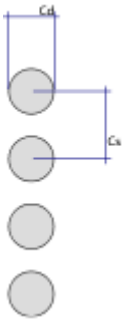
Tipo : POLYLINE
Punti
(-20;331)
(50;331)
(50;300)
(-20;300)
OCR : 1

Strato di Terreno	Terreno	γ dry kN/m³	γ sat kN/m³	ø' °	øcv °	øp °	c' kPa	Su kPa	Modulo Elastico	Eu kPa	Evc kPa	Eur kPa	Ah	Av	exp	Pa kPa	Rur/Rvc	Rvc kPa	Ku kN/m³	Kvc kN/m³	Kur kN/m³
1	Aate	19	19	31			10		Constant		40000	120000									
2	Salt	20	20	26			10		Constant		200000	600000									
3	Pa	22.5	22.5	27			50		Constant		100000	300000									

3. Descrizione Pareti

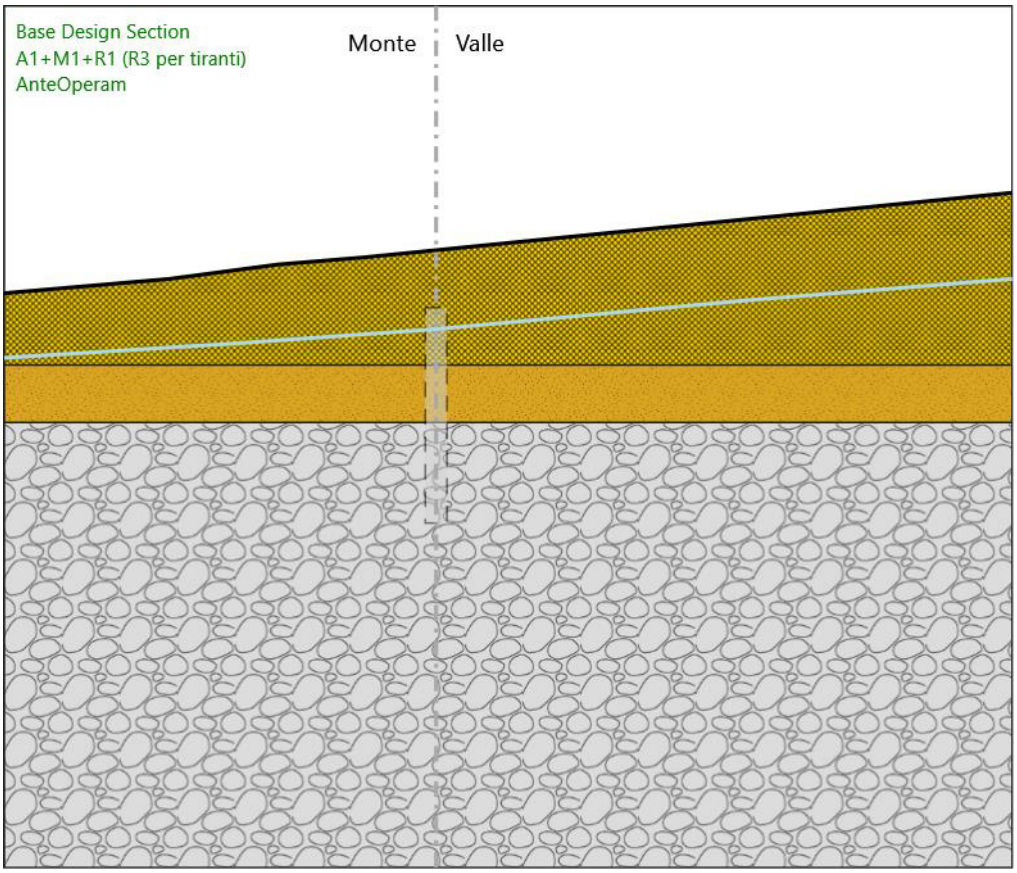
X : 10 m
Quota in alto : 339 m
Quota di fondo : 324 m
Muro di sinistra

Sezione : Pali1500
Area equivalente : 0.803248121656481 m
Inerzia equivalente : 0.113 m^4/m
Materiale calcestruzzo : C32/40
Tipo sezione : Tangent
Spaziatura : 2.2 m
Diametro : 1.5 m
Efficacia : 1

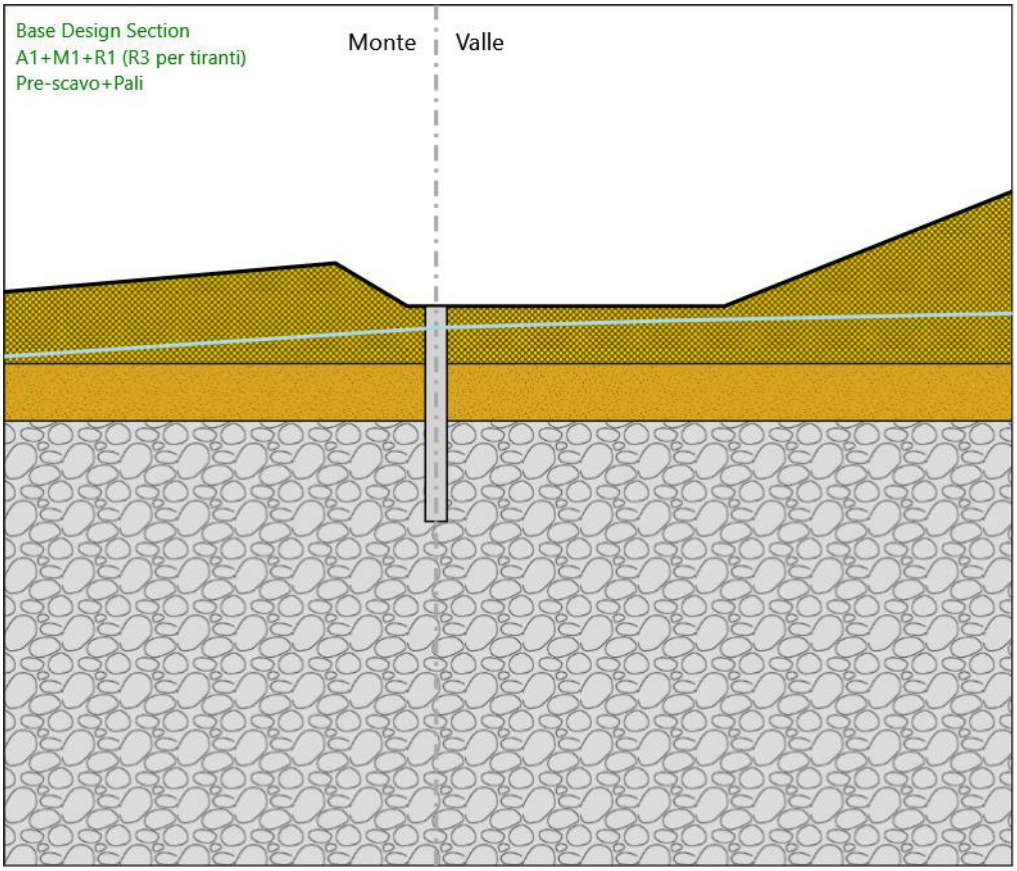


4. Fasi di Calcolo

4.1. AnteOperam



4.2. Pre-scavo+Pali



Pre-scavo+Pali

Elementi strutturali

Paratia : Pali1500

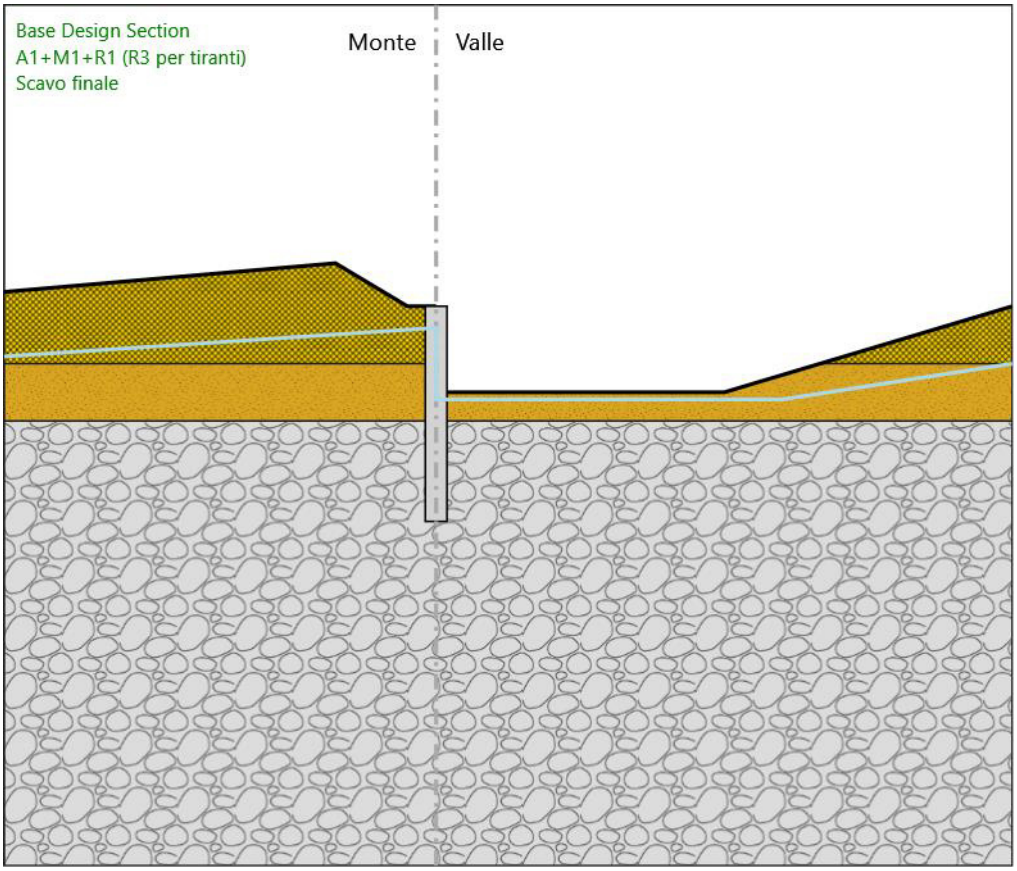
X : 10 m

Quota in alto : 339 m

Quota di fondo : 324 m

Sezione : Pali1500

4.3. Scavo finale



Scavo finale

Elementi strutturali

Paratia : Pali1500

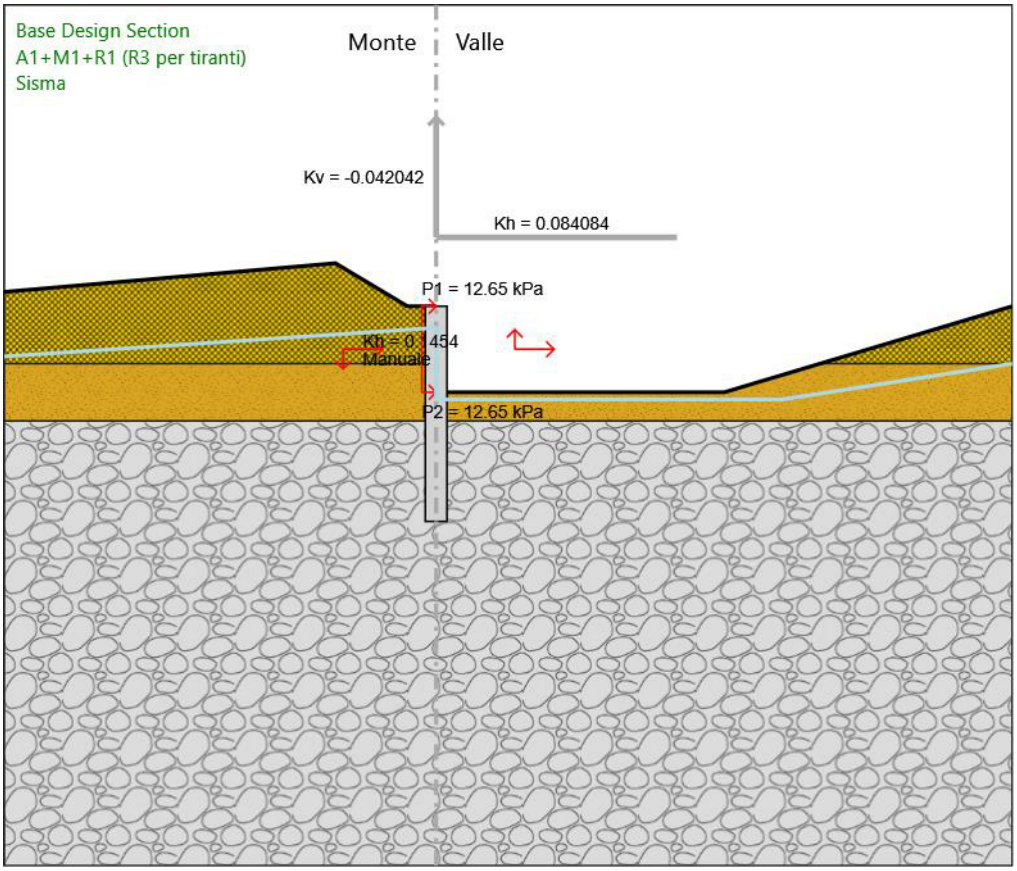
X : 10 m

Quota in alto : 339 m

Quota di fondo : 324 m

Sezione : Pali1500

4.4. Sisma



Sisma

Elementi strutturali

Paratia : Pali1500

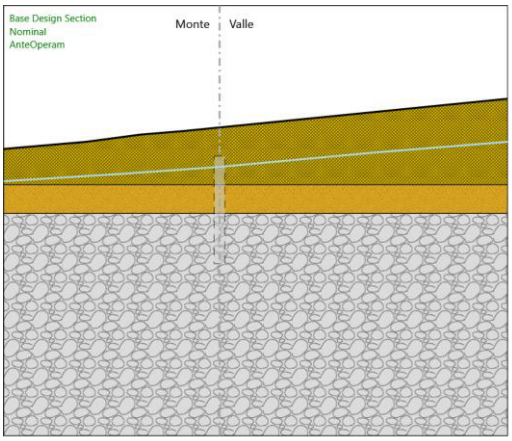
X : 10 m

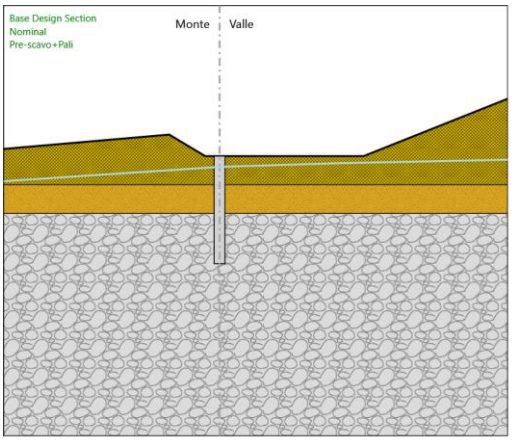
Quota in alto : 339 m

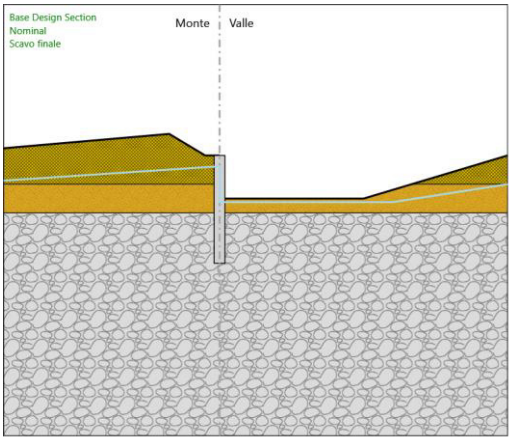
Quota di fondo : 324 m

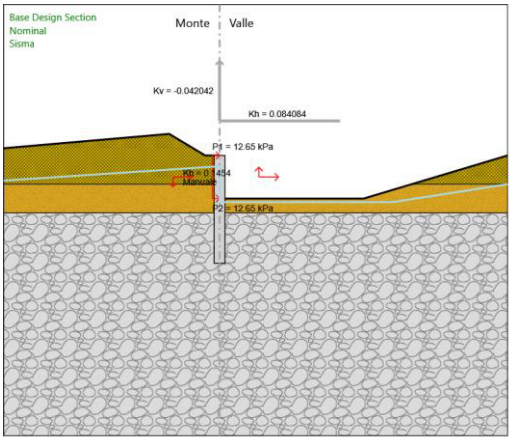
Sezione : Pali1500

4.5. Tabella Configurazione Stage (Nominal)









5. Grafici dei Risultati

5.1. Design Assumption : Nominal

5.1.1. Tabella Spostamento Nominal - LEFT Stage: AnteOperam

Design Assumption: Nominal	Tipo Risultato: Spostamento	Muro: LEFT
Stage	Z (m)	Spostamento orizzontale (mm)
AnteOperam	339	0
AnteOperam	338.8	0
AnteOperam	338.6	0
AnteOperam	338.4	0
AnteOperam	338.2	0
AnteOperam	338	0
AnteOperam	337.8	0
AnteOperam	337.6	0
AnteOperam	337.4	0
AnteOperam	337.2	0
AnteOperam	337	0
AnteOperam	336.8	0
AnteOperam	336.6	0
AnteOperam	336.4	0
AnteOperam	336.2	0
AnteOperam	336	0
AnteOperam	335.8	0
AnteOperam	335.6	0
AnteOperam	335.4	0
AnteOperam	335.2	0
AnteOperam	335	0
AnteOperam	334.8	0
AnteOperam	334.6	0
AnteOperam	334.4	0
AnteOperam	334.2	0
AnteOperam	334	0
AnteOperam	333.8	0
AnteOperam	333.6	0
AnteOperam	333.4	0
AnteOperam	333.2	0
AnteOperam	333	0
AnteOperam	332.8	0
AnteOperam	332.6	0
AnteOperam	332.4	0
AnteOperam	332.2	0
AnteOperam	332	0
AnteOperam	331.8	0
AnteOperam	331.6	0
AnteOperam	331.4	0
AnteOperam	331.2	0
AnteOperam	331	0
AnteOperam	330.8	0
AnteOperam	330.6	0
AnteOperam	330.4	0
AnteOperam	330.2	0
AnteOperam	330	0
AnteOperam	329.799	0
AnteOperam	329.599	0
AnteOperam	329.399	0
AnteOperam	329.199	0
AnteOperam	328.999	0
AnteOperam	328.799	0
AnteOperam	328.599	0
AnteOperam	328.399	0
AnteOperam	328.199	0
AnteOperam	327.999	0
AnteOperam	327.799	0
AnteOperam	327.599	0
AnteOperam	327.399	0
AnteOperam	327.199	0
AnteOperam	326.999	0

Design Assumption: Nominal	Tipo Risultato: Spostamento	Muro: LEFT
Stage	Z (m)	Spostamento orizzontale (mm)
AnteOperam	326.799	0
AnteOperam	326.599	0
AnteOperam	326.399	0
AnteOperam	326.199	0
AnteOperam	325.999	0
AnteOperam	325.799	0
AnteOperam	325.599	0
AnteOperam	325.399	0
AnteOperam	325.199	0
AnteOperam	324.999	0
AnteOperam	324.799	0
AnteOperam	324.599	0
AnteOperam	324.399	0
AnteOperam	324.199	0
AnteOperam	324	0

5.1.2. Tabella Spostamento Nominal - LEFT Stage: Pre-scavo+Pali

Design Assumption: Nominal	Tipo Risultato: Spostamento	Muro: LEFT
Stage	Z (m)	Spostamento orizzontale (mm)
Pre-scavo+Pali	339	0
Pre-scavo+Pali	338.8	0
Pre-scavo+Pali	338.6	0
Pre-scavo+Pali	338.4	0
Pre-scavo+Pali	338.2	0
Pre-scavo+Pali	338	0
Pre-scavo+Pali	337.8	0
Pre-scavo+Pali	337.6	0
Pre-scavo+Pali	337.4	0
Pre-scavo+Pali	337.2	0
Pre-scavo+Pali	337	0
Pre-scavo+Pali	336.8	0
Pre-scavo+Pali	336.6	0
Pre-scavo+Pali	336.4	0
Pre-scavo+Pali	336.2	0
Pre-scavo+Pali	336	0
Pre-scavo+Pali	335.8	0
Pre-scavo+Pali	335.6	0
Pre-scavo+Pali	335.4	0
Pre-scavo+Pali	335.2	0
Pre-scavo+Pali	335	0
Pre-scavo+Pali	334.8	0
Pre-scavo+Pali	334.6	0
Pre-scavo+Pali	334.4	0
Pre-scavo+Pali	334.2	0
Pre-scavo+Pali	334	0
Pre-scavo+Pali	333.8	0
Pre-scavo+Pali	333.6	0
Pre-scavo+Pali	333.4	0
Pre-scavo+Pali	333.2	0
Pre-scavo+Pali	333	0
Pre-scavo+Pali	332.8	0
Pre-scavo+Pali	332.6	0
Pre-scavo+Pali	332.4	0
Pre-scavo+Pali	332.2	0
Pre-scavo+Pali	332	0
Pre-scavo+Pali	331.8	0
Pre-scavo+Pali	331.6	0
Pre-scavo+Pali	331.4	0
Pre-scavo+Pali	331.2	0
Pre-scavo+Pali	331	0
Pre-scavo+Pali	330.8	0
Pre-scavo+Pali	330.6	0
Pre-scavo+Pali	330.4	0
Pre-scavo+Pali	330.2	0
Pre-scavo+Pali	330	0
Pre-scavo+Pali	329.799	0
Pre-scavo+Pali	329.599	0
Pre-scavo+Pali	329.399	0
Pre-scavo+Pali	329.199	0
Pre-scavo+Pali	328.999	0
Pre-scavo+Pali	328.799	0
Pre-scavo+Pali	328.599	0
Pre-scavo+Pali	328.399	0
Pre-scavo+Pali	328.199	0
Pre-scavo+Pali	327.999	0
Pre-scavo+Pali	327.799	0
Pre-scavo+Pali	327.599	0
Pre-scavo+Pali	327.399	0
Pre-scavo+Pali	327.199	0
Pre-scavo+Pali	326.999	0
Pre-scavo+Pali	326.799	0
Pre-scavo+Pali	326.599	0
Pre-scavo+Pali	326.399	0
Pre-scavo+Pali	326.199	0
Pre-scavo+Pali	325.999	0
Pre-scavo+Pali	325.799	0

Design Assumption: Nominal	Tipo Risultato: Spostamento	Muro: LEFT
Stage	**Z (m)**	**Spostamento orizzontale (mm)**
Pre-scavo+Pali	325.599	0
Pre-scavo+Pali	325.399	0
Pre-scavo+Pali	325.199	0
Pre-scavo+Pali	324.999	0
Pre-scavo+Pali	324.799	0
Pre-scavo+Pali	324.599	0
Pre-scavo+Pali	324.399	0
Pre-scavo+Pali	324.199	0
Pre-scavo+Pali	324	0

5.1.3. Tabella Spostamento Nominal - LEFT Stage: Scavo finale

Design Assumption: Nominal	Tipo Risultato: Spostamento	Muro: LEFT
Stage	Z (m)	Spostamento orizzontale (mm)
Scavo finale	339	6.33
Scavo finale	338.8	6.21
Scavo finale	338.6	6.08
Scavo finale	338.4	5.95
Scavo finale	338.2	5.83
Scavo finale	338	5.7
Scavo finale	337.8	5.57
Scavo finale	337.6	5.45
Scavo finale	337.4	5.32
Scavo finale	337.2	5.19
Scavo finale	337	5.07
Scavo finale	336.8	4.94
Scavo finale	336.6	4.81
Scavo finale	336.4	4.69
Scavo finale	336.2	4.56
Scavo finale	336	4.43
Scavo finale	335.8	4.31
Scavo finale	335.6	4.18
Scavo finale	335.4	4.05
Scavo finale	335.2	3.93
Scavo finale	335	3.8
Scavo finale	334.8	3.68
Scavo finale	334.6	3.55
Scavo finale	334.4	3.43
Scavo finale	334.2	3.3
Scavo finale	334	3.18
Scavo finale	333.8	3.05
Scavo finale	333.6	2.93
Scavo finale	333.4	2.81
Scavo finale	333.2	2.69
Scavo finale	333	2.57
Scavo finale	332.8	2.45
Scavo finale	332.6	2.33
Scavo finale	332.4	2.22
Scavo finale	332.2	2.11
Scavo finale	332	2
Scavo finale	331.8	1.89
Scavo finale	331.6	1.78
Scavo finale	331.4	1.68
Scavo finale	331.2	1.58
Scavo finale	331	1.49
Scavo finale	330.8	1.4
Scavo finale	330.6	1.31
Scavo finale	330.4	1.23
Scavo finale	330.2	1.15
Scavo finale	330	1.07
Scavo finale	329.799	1
Scavo finale	329.599	0.93
Scavo finale	329.399	0.86
Scavo finale	329.199	0.8
Scavo finale	328.999	0.74
Scavo finale	328.799	0.69
Scavo finale	328.599	0.63
Scavo finale	328.399	0.58
Scavo finale	328.199	0.54
Scavo finale	327.999	0.5
Scavo finale	327.799	0.45
Scavo finale	327.599	0.42
Scavo finale	327.399	0.38
Scavo finale	327.199	0.34
Scavo finale	326.999	0.31
Scavo finale	326.799	0.28
Scavo finale	326.599	0.25
Scavo finale	326.399	0.22
Scavo finale	326.199	0.2
Scavo finale	325.999	0.17
Scavo finale	325.799	0.14

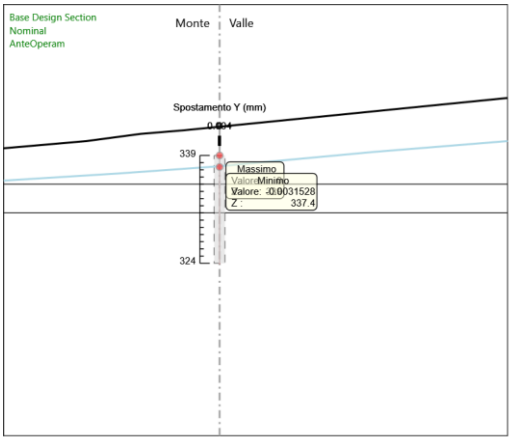
Design Assumption: Nominal	Tipo Risultato: Spostamento	Muro: LEFT
Stage	**Z (m)**	**Spostamento orizzontale (mm)**
Scavo finale	325.599	0.12
Scavo finale	325.399	0.09
Scavo finale	325.199	0.07
Scavo finale	324.999	0.05
Scavo finale	324.799	0.02
Scavo finale	324.599	0
Scavo finale	324.399	-0.02
Scavo finale	324.199	-0.05
Scavo finale	324	-0.07

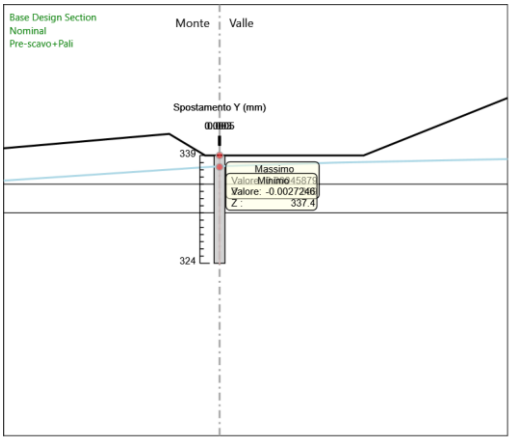
5.1.4. Tabella Spostamento Nominal - LEFT Stage: Sisma

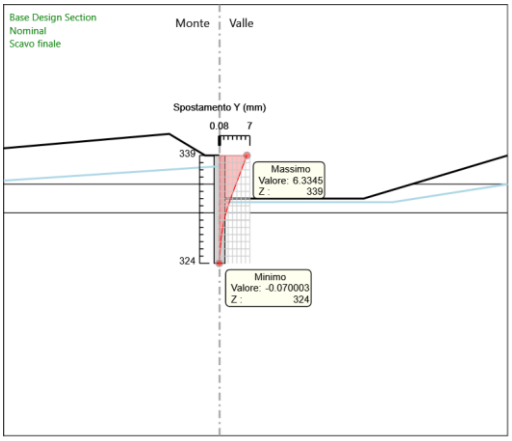
Design Assumption: Nominal	Tipo Risultato: Spostamento	Muro: LEFT
Stage	Z (m)	Spostamento orizzontale (mm)
Sisma	339	23.37
Sisma	338.8	22.91
Sisma	338.6	22.45
Sisma	338.4	21.99
Sisma	338.2	21.53
Sisma	338	21.07
Sisma	337.8	20.6
Sisma	337.6	20.14
Sisma	337.4	19.68
Sisma	337.2	19.22
Sisma	337	18.76
Sisma	336.8	18.3
Sisma	336.6	17.84
Sisma	336.4	17.38
Sisma	336.2	16.92
Sisma	336	16.47
Sisma	335.8	16.01
Sisma	335.6	15.55
Sisma	335.4	15.1
Sisma	335.2	14.64
Sisma	335	14.19
Sisma	334.8	13.74
Sisma	334.6	13.29
Sisma	334.4	12.85
Sisma	334.2	12.4
Sisma	334	11.96
Sisma	333.8	11.52
Sisma	333.6	11.08
Sisma	333.4	10.65
Sisma	333.2	10.22
Sisma	333	9.79
Sisma	332.8	9.37
Sisma	332.6	8.96
Sisma	332.4	8.55
Sisma	332.2	8.14
Sisma	332	7.74
Sisma	331.8	7.35
Sisma	331.6	6.97
Sisma	331.4	6.59
Sisma	331.2	6.22
Sisma	331	5.86
Sisma	330.8	5.51
Sisma	330.6	5.16
Sisma	330.4	4.83
Sisma	330.2	4.51
Sisma	330	4.19
Sisma	329.799	3.89
Sisma	329.599	3.59
Sisma	329.399	3.31
Sisma	329.199	3.03
Sisma	328.999	2.76
Sisma	328.799	2.51
Sisma	328.599	2.26
Sisma	328.399	2.02
Sisma	328.199	1.79
Sisma	327.999	1.57
Sisma	327.799	1.36
Sisma	327.599	1.15
Sisma	327.399	0.95
Sisma	327.199	0.76
Sisma	326.999	0.57
Sisma	326.799	0.39
Sisma	326.599	0.22
Sisma	326.399	0.05
Sisma	326.199	-0.12
Sisma	325.999	-0.28
Sisma	325.799	-0.45

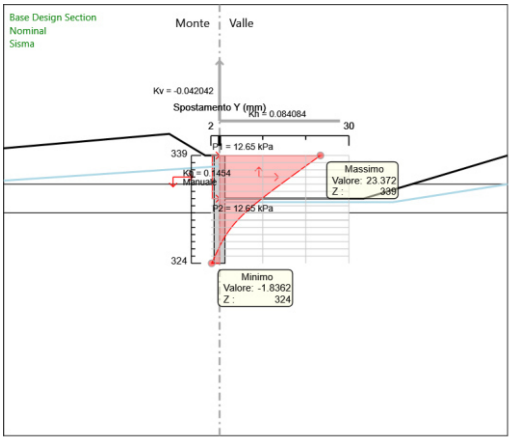
Design Assumption: Nominal	Tipo Risultato: Spostamento	Muro: LEFT
Stage	**Z (m)**	**Spostamento orizzontale (mm)**
Sisma	325.599	-0.6
Sisma	325.399	-0.76
Sisma	325.199	-0.92
Sisma	324.999	-1.07
Sisma	324.799	-1.23
Sisma	324.599	-1.38
Sisma	324.399	-1.53
Sisma	324.199	-1.68
Sisma	324	-1.84

5.1.5. Grafici Spostamento in tabella









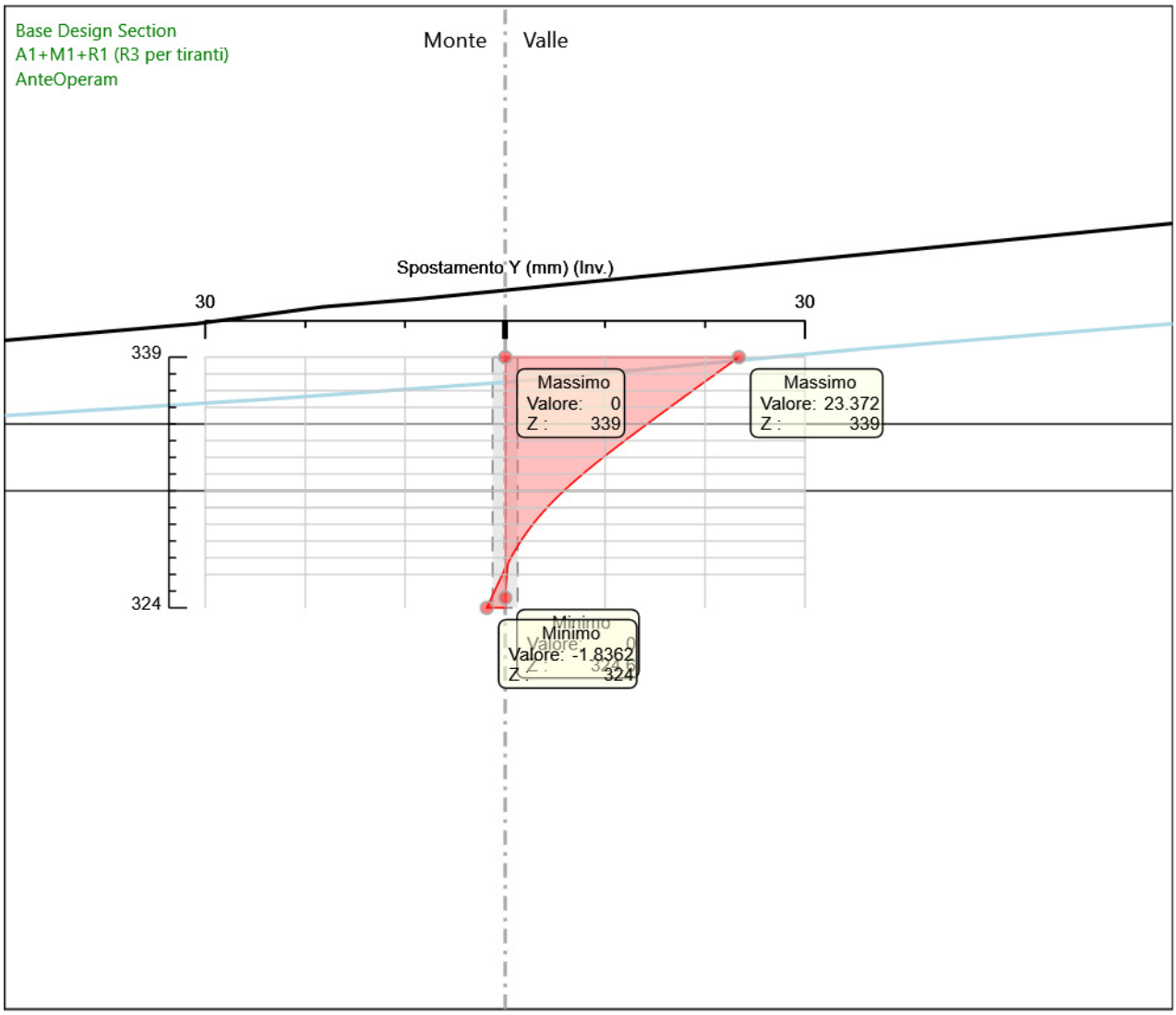
5.2. Inviluppi Spostamento Nominal

5.2.1. Tabella Inviluppi Spostamento orizzontale Nominal Left Wall

Selected Design Assumptions	Inviluppi: Spostamento orizzontale	Muro: LEFT
Z (m)	Lato sinistro (mm)	Lato destro (mm)
339	0	23.37
338.8	0	22.91
338.6	0	22.45
338.4	0	21.99
338.2	0	21.53
338	0	21.07
337.8	0	20.6
337.6	0	20.14
337.4	0	19.68
337.2	0	19.22
337	0	18.76
336.8	0	18.3
336.6	0	17.84
336.4	0	17.38
336.2	0	16.92
336	0	16.47
335.8	0	16.01
335.6	0	15.55
335.4	0	15.1
335.2	0	14.64
335	0	14.19
334.8	0	13.74
334.6	0	13.29
334.4	0	12.85
334.2	0	12.4
334	0	11.96
333.8	0	11.52
333.6	0	11.08
333.4	0	10.65
333.2	0	10.22
333	0	9.79
332.8	0	9.37
332.6	0	8.96
332.4	0	8.55
332.2	0	8.14
332	0	7.74
331.8	0	7.35
331.6	0	6.97
331.4	0	6.59
331.2	0	6.22
331	0	5.86
330.8	0	5.51
330.6	0	5.16
330.4	0	4.83
330.2	0	4.51
330	0	4.19
329.799	0	3.89
329.599	0	3.59
329.399	0	3.31
329.199	0	3.03
328.999	0	2.76
328.799	0	2.51
328.599	0	2.26
328.399	0	2.02
328.199	0	1.79
327.999	0	1.57
327.799	0	1.36
327.599	0	1.15
327.399	0	0.95
327.199	0	0.76
326.999	0	0.57
326.799	0	0.39
326.599	0	0.25
326.399	0	0.22

Selected Design Assumptions	Inviluppi: Spostamento orizzontale	Muro: LEFT
Z (m)	Lato sinistro (mm)	Lato destro (mm)
326.199	-0.12	0.2
325.999	-0.28	0.17
325.799	-0.45	0.14
325.599	-0.6	0.12
325.399	-0.76	0.09
325.199	-0.92	0.07
324.999	-1.07	0.05
324.799	-1.23	0.02
324.604	0	0
324.599	-1.38	0
324.399	-1.53	0
324.303	0	0
324.199	-1.68	0
324	-1.84	0

5.2.2. Grafico Inviluppi Spostamento



Spostamento

5.3. Risultati Paratia

5.3.1. Tabella Risultati Paratia Nominal - Stage: AnteOperam

Design Assumption: Nominal	Risultati Paratia	Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
AnteOperam	339	0	0
AnteOperam	338.8	0	0
AnteOperam	338.6	0	0
AnteOperam	338.4	0	0
AnteOperam	338.2	0	0
AnteOperam	338	0	0
AnteOperam	337.8	0	0
AnteOperam	337.6	0	0
AnteOperam	337.4	0	0
AnteOperam	337.2	0	0
AnteOperam	337	0	0
AnteOperam	336.8	0	0
AnteOperam	336.6	0	0
AnteOperam	336.4	0	0
AnteOperam	336.2	0	0
AnteOperam	336	0	0
AnteOperam	335.8	0	0
AnteOperam	335.6	0	0
AnteOperam	335.4	0	0
AnteOperam	335.2	0	0
AnteOperam	335	0	0
AnteOperam	334.8	0	0
AnteOperam	334.6	0	0
AnteOperam	334.4	0	0
AnteOperam	334.2	0	0
AnteOperam	334	0	0
AnteOperam	333.8	0	0
AnteOperam	333.6	0	0
AnteOperam	333.4	0	0
AnteOperam	333.2	0	0
AnteOperam	333	0	0
AnteOperam	332.8	0	0
AnteOperam	332.6	0	0
AnteOperam	332.4	0	0
AnteOperam	332.2	0	0
AnteOperam	332	0	0
AnteOperam	331.8	0	0
AnteOperam	331.6	0	0
AnteOperam	331.4	0	0
AnteOperam	331.2	0	0
AnteOperam	331	0	0
AnteOperam	330.8	0	0
AnteOperam	330.6	0	0
AnteOperam	330.4	0	0
AnteOperam	330.2	0	0
AnteOperam	330	0	0
AnteOperam	329.799	0	0
AnteOperam	329.599	0	0
AnteOperam	329.399	0	0
AnteOperam	329.199	0	0
AnteOperam	328.999	0	0
AnteOperam	328.799	0	0
AnteOperam	328.599	0	0
AnteOperam	328.399	0	0
AnteOperam	328.199	0	0
AnteOperam	327.999	0	0
AnteOperam	327.799	0	0
AnteOperam	327.599	0	0
AnteOperam	327.399	0	0
AnteOperam	327.199	0	0
AnteOperam	326.999	0	0
AnteOperam	326.799	0	0
AnteOperam	326.599	0	0
AnteOperam	326.399	0	0

Design Assumption: Nominal	Risultati Paratia	Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
AnteOperam	326.199	0	0
AnteOperam	325.999	0	0
AnteOperam	325.799	0	0
AnteOperam	325.599	0	0
AnteOperam	325.399	0	0
AnteOperam	325.199	0	0
AnteOperam	324.999	0	0
AnteOperam	324.799	0	0
AnteOperam	324.599	0	0
AnteOperam	324.399	0	0
AnteOperam	324.199	0	0
AnteOperam	324	0	0

5.3.2. Tabella Risultati Paratia Nominal - Stage: Pre-scavo+Pali

Design Assumption: Nominal	Risultati Paratia	Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Pre-scavo+Pali	339	0	0
Pre-scavo+Pali	338.8	0	0
Pre-scavo+Pali	338.6	0	0.02
Pre-scavo+Pali	338.4	0.01	0.03
Pre-scavo+Pali	338.2	0.02	0.05
Pre-scavo+Pali	338	0.03	0.07
Pre-scavo+Pali	337.8	0.05	0.08
Pre-scavo+Pali	337.6	0.07	0.1
Pre-scavo+Pali	337.4	0.09	0.11
Pre-scavo+Pali	337.2	0.11	0.09
Pre-scavo+Pali	337	0.12	0.06
Pre-scavo+Pali	336.8	0.13	0.04
Pre-scavo+Pali	336.6	0.13	0.01
Pre-scavo+Pali	336.4	0.13	-0.01
Pre-scavo+Pali	336.2	0.12	-0.03
Pre-scavo+Pali	336	0.11	-0.05
Pre-scavo+Pali	335.8	0.1	-0.07
Pre-scavo+Pali	335.6	0.08	-0.09
Pre-scavo+Pali	335.4	0.06	-0.1
Pre-scavo+Pali	335.2	0.04	-0.12
Pre-scavo+Pali	335	0.01	-0.14
Pre-scavo+Pali	334.8	-0.01	-0.12
Pre-scavo+Pali	334.6	-0.03	-0.1
Pre-scavo+Pali	334.4	-0.05	-0.08
Pre-scavo+Pali	334.2	-0.06	-0.06
Pre-scavo+Pali	334	-0.07	-0.05
Pre-scavo+Pali	333.8	-0.08	-0.04
Pre-scavo+Pali	333.6	-0.08	-0.03
Pre-scavo+Pali	333.4	-0.09	-0.02
Pre-scavo+Pali	333.2	-0.09	-0.01
Pre-scavo+Pali	333	-0.09	0
Pre-scavo+Pali	332.8	-0.09	0
Pre-scavo+Pali	332.6	-0.09	0.01
Pre-scavo+Pali	332.4	-0.08	0.01
Pre-scavo+Pali	332.2	-0.08	0.01
Pre-scavo+Pali	332	-0.08	0.02
Pre-scavo+Pali	331.8	-0.07	0.02
Pre-scavo+Pali	331.6	-0.07	0.02
Pre-scavo+Pali	331.4	-0.06	0.02
Pre-scavo+Pali	331.2	-0.06	0.02
Pre-scavo+Pali	331	-0.05	0.03
Pre-scavo+Pali	330.8	-0.05	0.03
Pre-scavo+Pali	330.6	-0.04	0.03
Pre-scavo+Pali	330.4	-0.04	0.02
Pre-scavo+Pali	330.2	-0.03	0.02
Pre-scavo+Pali	330	-0.03	0.02
Pre-scavo+Pali	329.799	-0.03	0.02
Pre-scavo+Pali	329.599	-0.02	0.02
Pre-scavo+Pali	329.399	-0.02	0.02
Pre-scavo+Pali	329.199	-0.02	0.02
Pre-scavo+Pali	328.999	-0.01	0.01
Pre-scavo+Pali	328.799	-0.01	0.01
Pre-scavo+Pali	328.599	-0.01	0.01
Pre-scavo+Pali	328.399	-0.01	0.01
Pre-scavo+Pali	328.199	0	0.01
Pre-scavo+Pali	327.999	0	0.01
Pre-scavo+Pali	327.799	0	0.01
Pre-scavo+Pali	327.599	0	0.01
Pre-scavo+Pali	327.399	0	0
Pre-scavo+Pali	327.199	0	0
Pre-scavo+Pali	326.999	0	0
Pre-scavo+Pali	326.799	0	0
Pre-scavo+Pali	326.599	0	0
Pre-scavo+Pali	326.399	0	0
Pre-scavo+Pali	326.199	0	0
Pre-scavo+Pali	325.999	0	0
Pre-scavo+Pali	325.799	0	0

Design Assumption: Nominal	Risultati Paratia	Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Pre-scavo+Pali	325.599	0	0
Pre-scavo+Pali	325.399	0	0
Pre-scavo+Pali	325.199	0	0
Pre-scavo+Pali	324.999	0	0
Pre-scavo+Pali	324.799	0	0
Pre-scavo+Pali	324.599	0	0
Pre-scavo+Pali	324.399	0	0
Pre-scavo+Pali	324.199	0	0
Pre-scavo+Pali	324	0	0

5.3.3. Tabella Risultati Paratia Nominal - Stage: Scavo finale

Design Assumption: Nominal	Risultati Paratia	Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Scavo finale	339	0	0
Scavo finale	338.8	0	0
Scavo finale	338.8	0	0
Scavo finale	338.6	0	0
Scavo finale	338.6	0	0
Scavo finale	338.4	0	0
Scavo finale	338.4	0	0
Scavo finale	338.2	0	0
Scavo finale	338.2	0	0
Scavo finale	338	0	0
Scavo finale	338	0	0
Scavo finale	337.8	0	0
Scavo finale	337.8	0	0
Scavo finale	337.6	0	0
Scavo finale	337.6	0	0
Scavo finale	337.4	0	0
Scavo finale	337.4	0	0
Scavo finale	337.2	-0.01	-0.07
Scavo finale	337	-0.08	-0.32
Scavo finale	336.8	-0.24	-0.8
Scavo finale	336.6	-0.56	-1.64
Scavo finale	336.4	-1.14	-2.86
Scavo finale	336.2	-2.03	-4.46
Scavo finale	336	-3.31	-6.42
Scavo finale	335.8	-5.07	-8.76
Scavo finale	335.6	-7.36	-11.47
Scavo finale	335.4	-10.27	-14.55
Scavo finale	335.2	-13.87	-18
Scavo finale	335	-18.23	-21.82
Scavo finale	334.8	-23.77	-27.66
Scavo finale	334.6	-30.57	-33.99
Scavo finale	334.4	-38.73	-40.81
Scavo finale	334.2	-48.35	-48.11
Scavo finale	334	-59.53	-55.91
Scavo finale	333.8	-72.37	-64.19
Scavo finale	333.6	-86.96	-72.96
Scavo finale	333.4	-103.41	-82.22
Scavo finale	333.2	-121.81	-91.97
Scavo finale	333	-142.25	-102.2
Scavo finale	332.8	-163.36	-105.54
Scavo finale	332.6	-184.68	-106.64
Scavo finale	332.4	-205.79	-105.51
Scavo finale	332.2	-226.36	-102.86
Scavo finale	332	-246.25	-99.45
Scavo finale	331.8	-265.3	-95.27
Scavo finale	331.6	-283.38	-90.33
Scavo finale	331.4	-300.3	-84.63
Scavo finale	331.2	-315.94	-78.16
Scavo finale	331	-330.12	-70.94
Scavo finale	330.8	-341.11	-54.95
Scavo finale	330.6	-348.89	-38.9
Scavo finale	330.4	-353.45	-22.78
Scavo finale	330.2	-354.82	-6.84
Scavo finale	330	-353.27	7.75
Scavo finale	329.799	-349.1	20.83
Scavo finale	329.599	-342.6	32.48
Scavo finale	329.399	-334.05	42.76
Scavo finale	329.199	-323.7	51.76
Scavo finale	328.999	-311.79	59.54
Scavo finale	328.799	-298.56	66.16
Scavo finale	328.599	-284.22	71.7
Scavo finale	328.399	-268.98	76.23
Scavo finale	328.199	-253.01	79.79
Scavo finale	327.999	-236.52	82.45
Scavo finale	327.799	-219.67	84.27
Scavo finale	327.599	-202.61	85.28
Scavo finale	327.399	-185.5	85.55

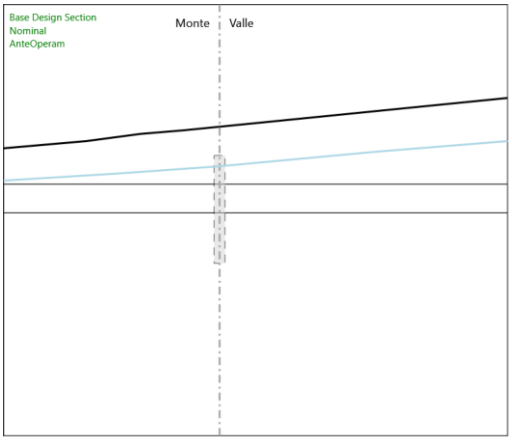
Design Assumption: Nominal	Risultati Paratia	Muro: LEFT	
Stage	**Z (m)**	**Momento (kN*m/m)**	**Taglio (kN/m)**
Scavo finale	327.199	-168.47	85.12
Scavo finale	326.999	-151.67	84.02
Scavo finale	326.799	-135.21	82.29
Scavo finale	326.599	-119.21	79.97
Scavo finale	326.399	-103.79	77.08
Scavo finale	326.199	-89.06	73.65
Scavo finale	325.999	-75.12	69.7
Scavo finale	325.799	-62.07	65.25
Scavo finale	325.599	-50.01	60.32
Scavo finale	325.399	-39.02	54.92
Scavo finale	325.199	-29.21	49.05
Scavo finale	324.999	-20.66	42.73
Scavo finale	324.799	-13.47	35.97
Scavo finale	324.599	-7.72	28.76
Scavo finale	324.399	-3.5	21.11
Scavo finale	324.199	-0.89	13.02
Scavo finale	324	0	4.49

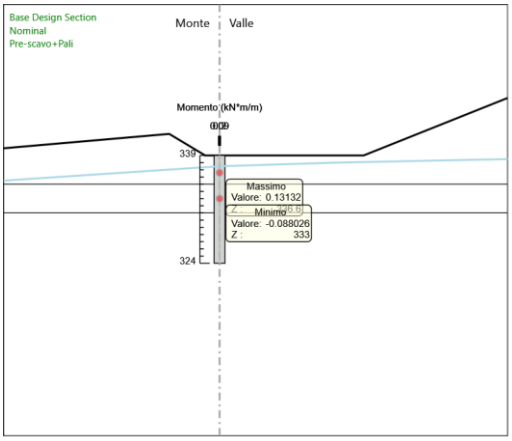
5.3.4. Tabella Risultati Paratia Nominal - Stage: Sisma

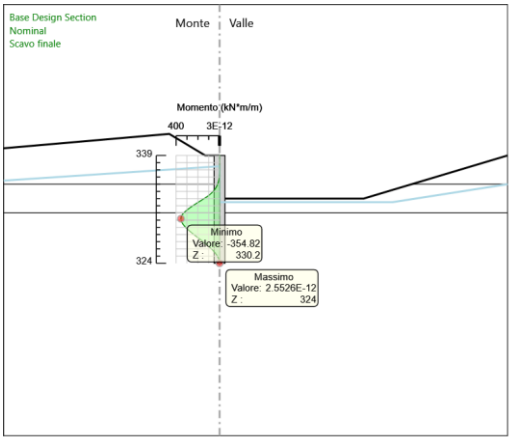
Design Assumption: Nominal	Risultati Paratia	Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Sisma	339	0	-1.58
Sisma	338.8	-0.32	-1.58
Sisma	338.6	-1.27	-4.75
Sisma	338.4	-2.85	-7.92
Sisma	338.2	-5.07	-11.09
Sisma	338	-7.92	-14.25
Sisma	337.8	-11.41	-17.42
Sisma	337.6	-15.52	-20.59
Sisma	337.4	-20.28	-23.76
Sisma	337.2	-25.67	-26.99
Sisma	337	-31.76	-30.41
Sisma	336.8	-38.57	-34.06
Sisma	336.6	-46.18	-38.07
Sisma	336.4	-54.68	-42.46
Sisma	336.2	-64.12	-47.22
Sisma	336	-74.59	-52.35
Sisma	335.8	-86.17	-57.86
Sisma	335.6	-98.91	-63.73
Sisma	335.4	-112.91	-69.98
Sisma	335.2	-128.23	-76.6
Sisma	335	-144.95	-83.59
Sisma	334.8	-163.48	-92.6
Sisma	334.6	-183.9	-102.1
Sisma	334.4	-206.31	-112.08
Sisma	334.2	-230.83	-122.56
Sisma	334	-257.53	-133.52
Sisma	333.8	-286.52	-144.97
Sisma	333.6	-317.9	-156.91
Sisma	333.4	-351.77	-169.33
Sisma	333.2	-388.24	-182.25
Sisma	333	-427.36	-195.62
Sisma	332.8	-467.25	-199.42
Sisma	332.6	-507.54	-201.49
Sisma	332.4	-547.91	-201.82
Sisma	332.2	-588.11	-201.03
Sisma	332	-628.06	-199.74
Sisma	331.8	-667.66	-197.96
Sisma	331.6	-706.81	-195.66
Sisma	331.4	-745.38	-192.85
Sisma	331.2	-783.28	-189.53
Sisma	331	-820.42	-185.68
Sisma	330.8	-851.68	-156.31
Sisma	330.6	-877.21	-127.66
Sisma	330.4	-897.16	-99.74
Sisma	330.2	-911.66	-72.5
Sisma	330	-920.84	-45.92
Sisma	329.799	-924.84	-19.98
Sisma	329.599	-923.77	5.34
Sisma	329.399	-917.76	30.09
Sisma	329.199	-906.95	54.05
Sisma	328.999	-891.5	77.24
Sisma	328.799	-871.56	99.68
Sisma	328.599	-847.29	121.39
Sisma	328.399	-818.8	142.41
Sisma	328.199	-786.24	162.76
Sisma	327.999	-749.74	182.46
Sisma	327.799	-709.43	201.55
Sisma	327.599	-665.43	220.04
Sisma	327.399	-618.3	235.66
Sisma	327.199	-568.79	247.52
Sisma	326.999	-517.72	255.34
Sisma	326.799	-465.87	259.25
Sisma	326.599	-413.97	259.36
Sisma	326.399	-362.82	255.77
Sisma	326.199	-313.11	248.57
Sisma	325.999	-265.5	238.01
Sisma	325.799	-220.46	225.21

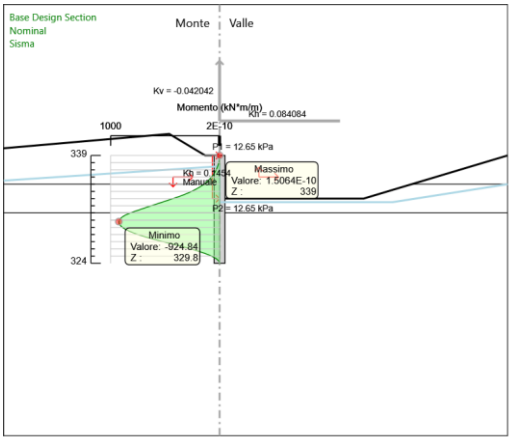
Design Assumption: Nominal	Risultati Paratia	Muro: LEFT	
Stage	**Z (m)**	**Momento (kN*m/m)**	**Taglio (kN/m)**
Sisma	325.599	-178.42	210.21
Sisma	325.399	-139.81	193.04
Sisma	325.199	-105.06	173.72
Sisma	324.999	-74.57	152.4
Sisma	324.799	-48.75	129.09
Sisma	324.599	-27.99	103.81
Sisma	324.399	-12.68	76.55
Sisma	324.199	-3.21	47.33
Sisma	324	0	16.14

5.3.5. Grafico Momento Nominal

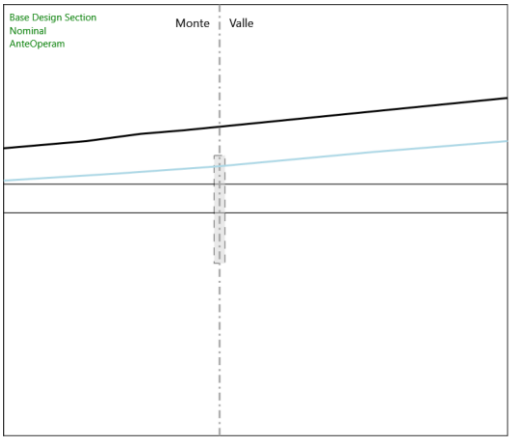


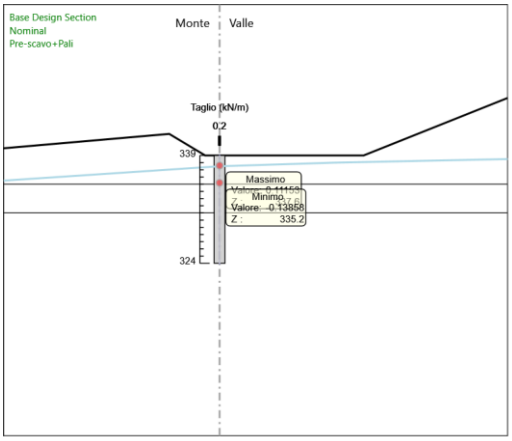


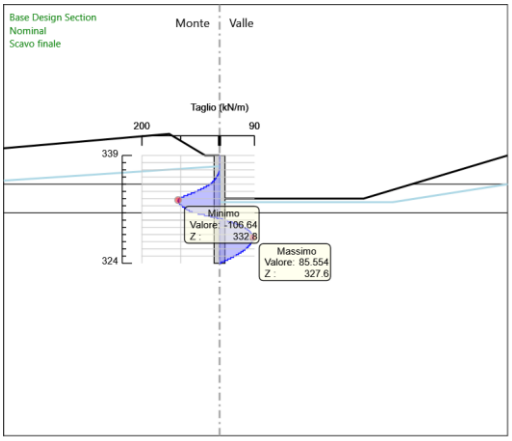


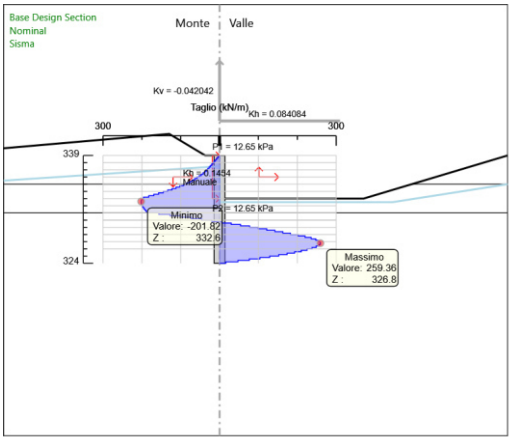


5.3.6. Grafico Taglio Nominal









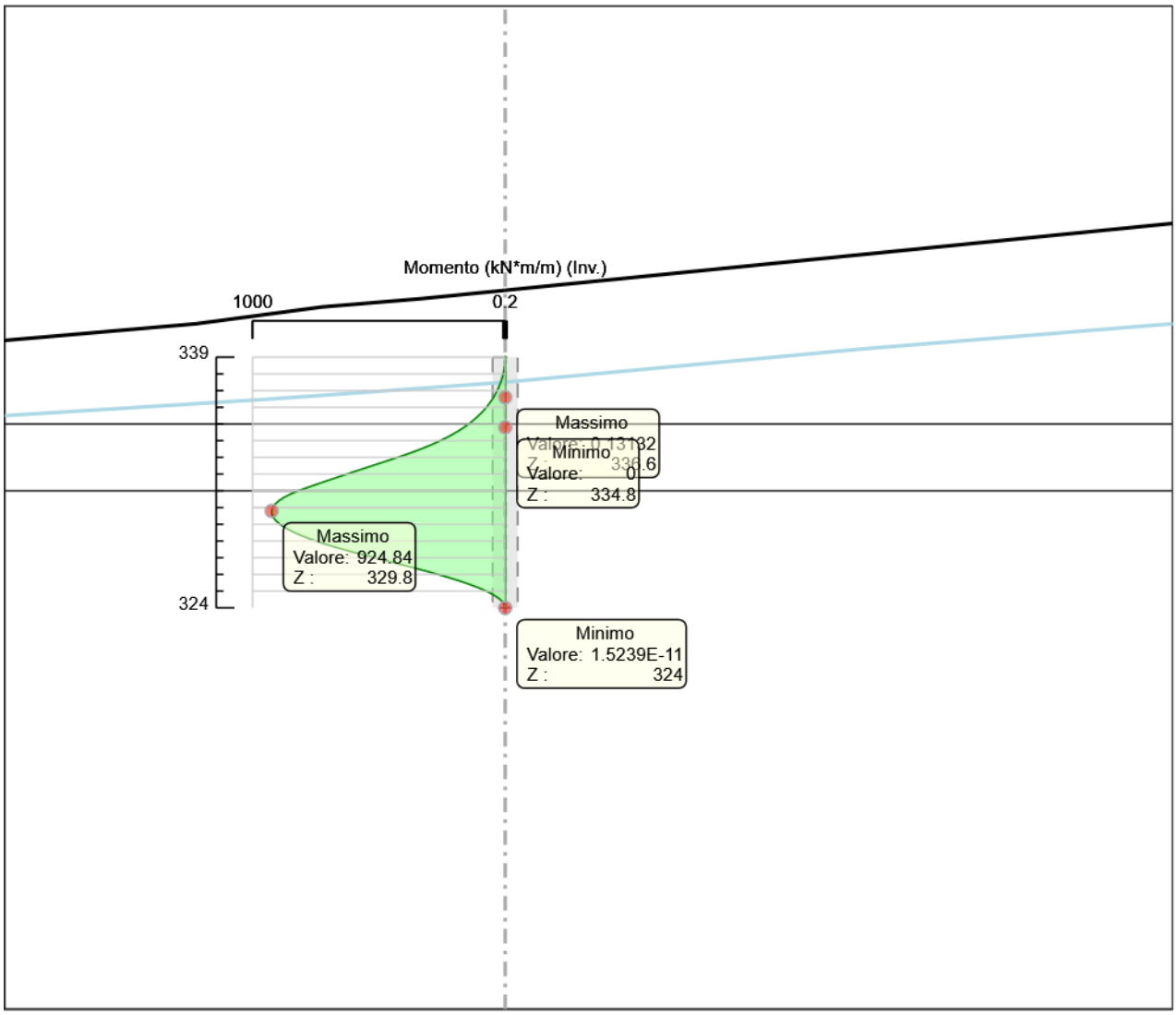
5.4. Inviluppi Risultati Paratia Nominal

5.4.1. Tabella Inviluppi Momento Nominal Pali1500

Selected Design Assumptions	Inviluppi: Momento	Muro: Pali1500
Z (m)	Lato sinistro (kN*m/m)	Lato destro (kN*m/m)
339	0	0
338.8	0.317	0.001
338.6	1.267	0.004
338.4	2.851	0.011
338.2	5.068	0.021
338	7.921	0.035
337.8	11.405	0.051
337.6	15.523	0.07
337.4	20.275	0.092
337.2	25.673	0.109
337	31.756	0.121
336.8	38.567	0.129
336.6	46.182	0.131
336.4	54.678	0.13
336.2	64.123	0.124
336	74.594	0.114
335.8	86.166	0.1
335.6	98.912	0.083
335.4	112.909	0.062
335.2	128.229	0.038
335	144.948	0.01
334.8	163.478	0
334.6	183.897	0
334.4	206.314	0
334.2	230.826	0
334	257.529	0
333.8	286.523	0
333.6	317.904	0
333.4	351.77	0
333.2	388.238	0
333	427.362	0
332.8	467.246	0
332.6	507.544	0
332.4	547.908	0
332.2	588.115	0
332	628.064	0
331.8	667.655	0
331.6	706.807	0
331.4	745.378	0
331.2	783.283	0
331	820.42	0
330.8	851.682	0
330.6	877.214	0
330.4	897.161	0
330.2	911.66	0
330	920.844	0
329.799	924.843	0
329.599	923.774	0
329.399	917.757	0
329.199	906.946	0
328.999	891.499	0
328.799	871.563	0
328.599	847.285	0
328.399	818.804	0
328.199	786.236	0
327.999	749.743	0
327.799	709.434	0
327.599	665.427	0
327.399	618.295	0
327.199	568.791	0
326.999	517.722	0.001
326.799	465.872	0.001
326.599	413.974	0.002
326.399	362.821	0.002

Selected Design Assumptions	Inviluppi: Momento	Muro: Pali1500
Z (m)	Lato sinistro (kN*m/m)	Lato destro (kN*m/m)
326.199	313.106	0.002
325.999	265.503	0.002
325.799	220.46	0.002
325.599	178.418	0.001
325.399	139.809	0.001
325.199	105.065	0.001
324.999	74.57	0.001
324.799	48.751	0
324.599	27.99	0
324.399	12.68	0
324.199	3.214	0
324	0	0

5.4.2. Grafico Inviluppi Momento Nominal



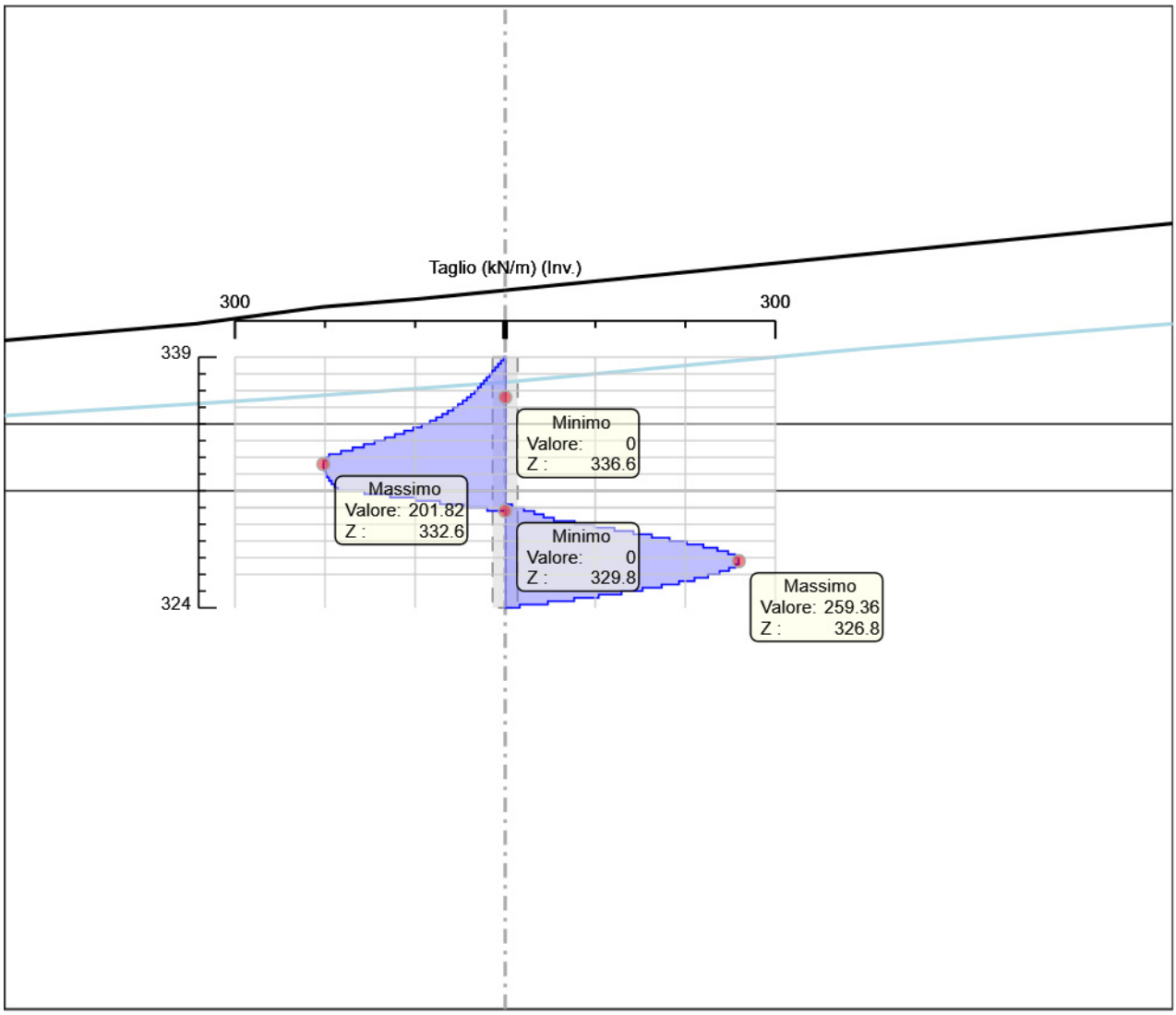
Momento

5.4.3. Tabella Inviluppi Taglio Nominal Pali1500

Selected Design Assumptions	Inviluppi: Taglio	Muro: Pali1500
Z (m)	Lato sinistro (kN/m)	Lato destro (kN/m)
339	1.584	0.003
338.8	4.751	0.019
338.6	7.919	0.035
338.4	11.087	0.05
338.2	14.255	0.066
338	17.423	0.081
337.8	20.591	0.096
337.6	23.758	0.112
337.4	26.992	0.112
337.2	30.413	0.085
337	34.057	0.06
336.8	38.073	0.036
336.6	42.462	0.013
336.4	47.222	0
336.2	52.354	0
336	57.858	0
335.8	63.734	0
335.6	69.982	0
335.4	76.602	0
335.2	83.594	0
335	92.602	0
334.8	102.099	0
334.6	112.084	0
334.4	122.557	0
334.2	133.518	0
334	144.968	0
333.8	156.906	0
333.6	169.332	0
333.4	182.247	0
333.2	195.621	0
333	199.42	0.003
332.8	201.488	0.008
332.6	201.823	0.012
332.4	201.823	0.015
332.2	201.031	0.017
332	199.745	0.019
331.8	197.957	0.021
331.6	195.662	0.023
331.4	192.853	0.025
331.2	189.529	0.027
331	185.684	0.027
330.8	156.306	0.026
330.6	127.664	0.025
330.4	99.735	0.024
330.2	72.496	7.748
330	45.92	20.829
329.799	19.983	32.475
329.599	0	42.761
329.399	0	54.052
329.199	0	77.239
328.999	0	99.676
328.799	0	121.39
328.599	0	142.409
328.399	0	162.758
328.199	0	182.462
327.999	0	201.547
327.799	0	220.036
327.599	0	235.656
327.399	0	247.522
327.199	0	255.344
326.999	0	259.251
326.799	0	259.358
326.599	0	259.358
326.399	0	255.768
326.199	0	248.575
325.999	0.001	238.014
325.799	0.001	225.214

Selected Design Assumptions	Inviluppi: Taglio	Muro: Pali1500
Z (m)	Lato sinistro (kN/m)	Lato destro (kN/m)
325.599	0.001	210.214
325.399	0.001	193.042
325.199	0.001	173.723
324.999	0.001	152.4
324.799	0.001	129.091
324.599	0.001	103.806
324.399	0.001	76.551
324.199	0.001	47.33
324	0	16.143

5.4.4. Grafico Inviluppi Taglio Nominal



Taglio

5.5. Risultati Terreno

5.5.1. Tabella Risultati Terreno Left Wall - Nominal - AnteOperam

Design Assumption: Nominal	Risultati Terreno	Muro:	LEFT		Lato	LEFT				
Stage	Z (m)	Sigma V	Sigma H	Stato	Ka	Kp	Coesione	Pore	Gradiente	U*	Peq
AnteOperam	339	76	38	V-C	0.303	3.803	10	0	0	0	38
AnteOperam	338.8	79.8	39.9	V-C	0.303	3.803	10	0	0	0	39.9
AnteOperam	338.6	83.6	41.8	V-C	0.303	3.803	10	0	0	0	41.8
AnteOperam	338.4	87.4	43.7	V-C	0.303	3.803	10	0	0	0	43.7
AnteOperam	338.2	91.2	45.6	V-C	0.303	3.803	10	0	0	0	45.6
AnteOperam	338	95.002	47.501	V-C	0.303	3.803	10	0	0	0	47.501
AnteOperam	337.8	98.802	49.401	V-C	0.303	3.803	10	0	0	0	49.401
AnteOperam	337.6	102.602	51.301	V-C	0.303	3.803	10	0	0	0	51.301
AnteOperam	337.4	105.698	52.96	V-C	0.303	3.803	10	0.704	-0.005	0	53.665
AnteOperam	337.2	107.488	53.853	V-C	0.303	3.803	10	2.713	-0.005	0	56.566
AnteOperam	337	109.279	54.745	V-C	0.303	3.803	10	4.723	-0.005	0	59.467
AnteOperam	336.8	111.07	55.637	V-C	0.303	3.803	10	6.732	-0.005	0	62.369
AnteOperam	336.6	112.861	56.529	V-C	0.303	3.803	10	8.741	-0.005	0	65.27
AnteOperam	336.4	114.653	57.422	V-C	0.303	3.803	10	10.751	-0.005	0	68.173
AnteOperam	336.2	116.444	58.314	V-C	0.303	3.803	10	12.76	-0.005	0	71.075
AnteOperam	336	118.234	59.207	V-C	0.303	3.803	10	14.769	-0.005	0	73.976
AnteOperam	335.8	120.025	60.099	V-C	0.303	3.803	10	16.779	-0.005	0	76.878
AnteOperam	335.6	121.816	60.991	V-C	0.303	3.803	10	18.788	-0.005	0	79.779
AnteOperam	335.4	123.607	61.884	V-C	0.303	3.803	10	20.797	-0.005	0	82.68
AnteOperam	335.2	125.398	62.776	V-C	0.303	3.803	10	22.806	-0.005	0	85.582
AnteOperam	335	127.189	71.537	V-C	0.368	2.867	10	24.815	-0.005	0	96.352
AnteOperam	334.8	129.181	72.654	V-C	0.368	2.867	10	26.825	-0.005	0	99.479
AnteOperam	334.6	131.171	73.77	V-C	0.368	2.867	10	28.835	-0.005	0	102.605
AnteOperam	334.4	133.162	74.886	V-C	0.368	2.867	10	30.844	-0.005	0	105.73
AnteOperam	334.2	135.153	76.003	V-C	0.368	2.867	10	32.853	-0.005	0	108.856
AnteOperam	334	137.144	77.119	V-C	0.368	2.867	10	34.862	-0.005	0	111.981
AnteOperam	333.8	139.135	78.236	V-C	0.368	2.867	10	36.871	-0.005	0	115.107
AnteOperam	333.6	141.126	79.352	V-C	0.368	2.867	10	38.88	-0.005	0	118.233
AnteOperam	333.4	143.116	80.469	V-C	0.368	2.867	10	40.89	-0.005	0	121.358
AnteOperam	333.2	145.108	81.586	V-C	0.368	2.867	10	42.9	-0.005	0	124.485
AnteOperam	333	147.099	82.702	V-C	0.368	2.867	10	44.909	-0.005	0	127.611
AnteOperam	332.8	149.09	83.819	V-C	0.368	2.867	10	46.918	-0.005	0	130.737
AnteOperam	332.6	151.081	84.935	V-C	0.368	2.867	10	48.927	-0.005	0	133.862
AnteOperam	332.4	153.072	86.051	V-C	0.368	2.867	10	50.936	-0.005	0	136.988
AnteOperam	332.2	155.062	87.168	V-C	0.368	2.867	10	52.946	-0.005	0	140.114
AnteOperam	332	157.053	88.284	V-C	0.368	2.867	10	54.955	-0.005	0	143.239
AnteOperam	331.8	159.044	89.401	V-C	0.368	2.867	10	56.964	-0.005	0	146.365
AnteOperam	331.6	161.036	90.518	V-C	0.368	2.867	10	58.974	-0.005	0	149.492
AnteOperam	331.4	163.027	91.634	V-C	0.368	2.867	10	60.983	-0.005	0	152.618
AnteOperam	331.2	165.018	92.751	V-C	0.368	2.867	10	62.992	-0.005	0	155.743
AnteOperam	331	167.01	83.515	V-C	0.355	2.998	50	65.002	0	0	148.516
AnteOperam	330.8	169.509	84.764	V-C	0.355	2.998	50	67.003	0	0	151.766
AnteOperam	330.6	172.008	86.013	V-C	0.355	2.998	50	69.003	0	0	155.017
AnteOperam	330.4	174.507	87.262	V-C	0.355	2.998	50	71.004	0	0	158.267
AnteOperam	330.2	177.006	88.512	V-C	0.355	2.998	50	73.005	0	0	161.517
AnteOperam	330	179.505	89.761	V-C	0.355	2.998	50	75.006	0	0	164.767
AnteOperam	329.799	182.005	91.011	V-C	0.355	2.998	50	77.008	0	0	168.019
AnteOperam	329.599	184.504	92.26	V-C	0.355	2.998	50	79.009	0	0	171.269
AnteOperam	329.399	187.004	93.509	V-C	0.355	2.998	50	81.01	0	0	174.519
AnteOperam	329.199	189.503	94.759	V-C	0.355	2.998	50	83.011	0	0	177.77
AnteOperam	328.999	192.002	96.008	V-C	0.355	2.998	50	85.012	0	0	181.02
AnteOperam	328.799	194.501	97.257	V-C	0.355	2.998	50	87.013	0	0	184.27
AnteOperam	328.599	197	98.506	V-C	0.355	2.998	50	89.014	0	0	187.52
AnteOperam	328.399	199.499	99.756	V-C	0.355	2.998	50	91.015	0	0	190.77
AnteOperam	328.199	201.999	101.006	V-C	0.355	2.998	50	93.016	0	0	194.022
AnteOperam	327.999	204.498	102.255	V-C	0.355	2.998	50	95.017	0	0	197.272
AnteOperam	327.799	206.998	103.504	V-C	0.355	2.998	50	97.018	0	0	200.522
AnteOperam	327.599	209.496	104.753	V-C	0.355	2.998	50	99.019	0	0	203.773
AnteOperam	327.399	211.996	106.003	V-C	0.355	2.998	50	101.02	0	0	207.023
AnteOperam	327.199	214.495	107.252	V-C	0.355	2.998	50	103.021	0	0	210.273
AnteOperam	326.999	216.994	108.501	V-C	0.355	2.998	50	105.022	0	0	213.523
AnteOperam	326.799	219.493	109.75	V-C	0.355	2.998	50	107.023	0	0	216.773
AnteOperam	326.599	221.993	111	V-C	0.355	2.998	50	109.025	0	0	220.025
AnteOperam	326.399	224.492	112.25	V-C	0.355	2.998	50	111.026	0	0	223.275

Design Assumption: Nominal		Risultati Terreno		Muro:	LEFT		Lato	LEFT				
Stage	Z (m)	Sigma V	Sigma H	Stato	Ka	Kp	Coesione	Pore	Gradiente	U*	Peq	
AnteOperam	326.199	226.991	113.499	V-C	0.355	2.998	50	113.027	0	0	226.525	
AnteOperam	325.999	229.49	114.748	V-C	0.355	2.998	50	115.028	0	0	229.776	
AnteOperam	325.799	231.99	115.997	V-C	0.355	2.998	50	117.028	0	0	233.026	
AnteOperam	325.599	234.489	117.247	V-C	0.355	2.998	50	119.029	0	0	236.276	
AnteOperam	325.399	236.988	118.496	V-C	0.355	2.998	50	121.03	0	0	239.526	
AnteOperam	325.199	239.487	119.745	V-C	0.355	2.998	50	123.031	0	0	242.776	
AnteOperam	324.999	241.987	120.995	V-C	0.355	2.998	50	125.033	0	0	246.028	
AnteOperam	324.799	244.486	122.244	V-C	0.355	2.998	50	127.034	0	0	249.278	
AnteOperam	324.599	246.985	123.494	V-C	0.355	2.998	50	129.035	0	0	252.528	
AnteOperam	324.399	249.484	124.743	V-C	0.355	2.998	50	131.036	0	0	255.779	
AnteOperam	324.199	251.983	125.992	V-C	0.355	2.998	50	133.037	0	0	259.029	
AnteOperam	324	254.471	127.236	V-C	0.355	2.998	50	135.029	0	0	262.264	

Design Assumption: Nominal Risultati Terreno			Muro:	LEFT		Lato	RIGHT				
Stage	Z (m)	Sigma V	Sigma H	Stato	Ka	Kp	Coesione	Pore	Gradiente	U*	Peq
AnteOperam	339	76	38	V-C	0.34	4.555	10	0	0	0	38
AnteOperam	338.8	79.8	39.9	V-C	0.34	4.555	10	0	0	0	39.9
AnteOperam	338.6	83.6	41.8	V-C	0.34	4.555	10	0	0	0	41.8
AnteOperam	338.4	87.4	43.7	V-C	0.34	4.555	10	0	0	0	43.7
AnteOperam	338.2	91.2	45.6	V-C	0.34	4.555	10	0	0	0	45.6
AnteOperam	338	95.002	47.501	V-C	0.34	4.555	10	0	0	0	47.501
AnteOperam	337.8	98.802	49.401	V-C	0.34	4.555	10	0	0	0	49.401
AnteOperam	337.6	102.602	51.301	V-C	0.34	4.555	10	0	0	0	51.301
AnteOperam	337.4	105.047	52.309	UL-RL	0.34	4.555	10	1.355	-0.005	0	53.665
AnteOperam	337.2	106.856	53.22	UL-RL	0.34	4.555	10	3.346	-0.005	0	56.566
AnteOperam	337	108.665	54.131	UL-RL	0.34	4.555	10	5.337	-0.005	0	59.467
AnteOperam	336.8	110.474	55.041	UL-RL	0.34	4.555	10	7.328	-0.005	0	62.369
AnteOperam	336.6	112.283	55.952	UL-RL	0.34	4.555	10	9.319	-0.005	0	65.27
AnteOperam	336.4	114.093	56.863	UL-RL	0.34	4.555	10	11.31	-0.005	0	68.173
AnteOperam	336.2	115.903	57.773	UL-RL	0.34	4.555	10	13.301	-0.005	0	71.075
AnteOperam	336	117.712	58.684	UL-RL	0.34	4.555	10	15.292	-0.005	0	73.976
AnteOperam	335.8	119.521	59.595	UL-RL	0.34	4.555	10	17.283	-0.005	0	76.878
AnteOperam	335.6	121.33	60.505	UL-RL	0.34	4.555	10	19.274	-0.005	0	79.779
AnteOperam	335.4	123.139	61.416	UL-RL	0.34	4.555	10	21.265	-0.005	0	82.68
AnteOperam	335.2	124.948	62.326	UL-RL	0.34	4.555	10	23.255	-0.005	0	85.582
AnteOperam	335	126.758	71.106	UL-RL	0.418	3.404	10	25.246	-0.005	0	96.352
AnteOperam	334.8	128.768	72.241	UL-RL	0.418	3.404	10	27.238	-0.005	0	99.479
AnteOperam	334.6	130.777	73.376	UL-RL	0.418	3.404	10	29.229	-0.005	0	102.605
AnteOperam	334.4	132.786	74.511	UL-RL	0.418	3.404	10	31.22	-0.005	0	105.73
AnteOperam	334.2	134.796	75.645	UL-RL	0.418	3.404	10	33.211	-0.005	0	108.856
AnteOperam	334	136.805	76.78	UL-RL	0.418	3.404	10	35.201	-0.005	0	111.981
AnteOperam	333.8	138.814	77.915	UL-RL	0.418	3.404	10	37.192	-0.005	0	115.107
AnteOperam	333.6	140.823	79.05	UL-RL	0.418	3.404	10	39.183	-0.005	0	118.233
AnteOperam	333.4	142.832	80.184	UL-RL	0.418	3.404	10	41.174	-0.005	0	121.358
AnteOperam	333.2	144.842	81.32	UL-RL	0.418	3.404	10	43.166	-0.005	0	124.485
AnteOperam	333	146.852	82.455	UL-RL	0.418	3.404	10	45.156	-0.005	0	127.611
AnteOperam	332.8	148.861	83.589	UL-RL	0.418	3.404	10	47.147	-0.005	0	130.737
AnteOperam	332.6	150.87	84.724	UL-RL	0.418	3.404	10	49.138	-0.005	0	133.862
AnteOperam	332.4	152.879	85.859	UL-RL	0.418	3.404	10	51.129	-0.005	0	136.988
AnteOperam	332.2	154.888	86.994	UL-RL	0.418	3.404	10	53.12	-0.005	0	140.114
AnteOperam	332	156.897	88.128	UL-RL	0.418	3.404	10	55.111	-0.005	0	143.239
AnteOperam	331.8	158.906	89.263	UL-RL	0.418	3.404	10	57.101	-0.005	0	146.365
AnteOperam	331.6	160.917	90.399	UL-RL	0.418	3.404	10	59.093	-0.005	0	149.492
AnteOperam	331.4	162.926	91.533	UL-RL	0.418	3.404	10	61.084	-0.005	0	152.618
AnteOperam	331.2	164.935	92.668	UL-RL	0.418	3.404	10	63.075	-0.005	0	155.743
AnteOperam	331	166.945	83.45	UL-RL	0.401	3.601	50	65.066	0	0	148.516
AnteOperam	330.8	169.446	84.702	UL-RL	0.401	3.601	50	67.065	0	0	151.766
AnteOperam	330.6	171.947	85.953	UL-RL	0.401	3.601	50	69.064	0	0	155.017
AnteOperam	330.4	174.448	87.204	UL-RL	0.401	3.601	50	71.063	0	0	158.267
AnteOperam	330.2	176.949	88.455	UL-RL	0.401	3.601	50	73.062	0	0	161.517
AnteOperam	330	179.45	89.706	UL-RL	0.401	3.601	50	75.061	0	0	164.767
AnteOperam	329.799	181.952	90.958	UL-RL	0.401	3.601	50	77.061	0	0	168.019
AnteOperam	329.599	184.453	92.209	UL-RL	0.401	3.601	50	79.06	0	0	171.269
AnteOperam	329.399	186.954	93.46	UL-RL	0.401	3.601	50	81.059	0	0	174.519
AnteOperam	329.199	189.455	94.711	UL-RL	0.401	3.601	50	83.059	0	0	177.77
AnteOperam	328.999	191.956	95.962	UL-RL	0.401	3.601	50	85.058	0	0	181.02
AnteOperam	328.799	194.457	97.213	UL-RL	0.401	3.601	50	87.057	0	0	184.27
AnteOperam	328.599	196.958	98.464	UL-RL	0.401	3.601	50	89.056	0	0	187.52
AnteOperam	328.399	199.459	99.715	UL-RL	0.401	3.601	50	91.055	0	0	190.77
AnteOperam	328.199	201.961	100.967	UL-RL	0.401	3.601	50	93.055	0	0	194.022
AnteOperam	327.999	204.462	102.218	UL-RL	0.401	3.601	50	95.054	0	0	197.272
AnteOperam	327.799	206.963	103.469	UL-RL	0.401	3.601	50	97.053	0	0	200.522
AnteOperam	327.599	209.464	104.72	UL-RL	0.401	3.601	50	99.052	0	0	203.773
AnteOperam	327.399	211.964	105.971	UL-RL	0.401	3.601	50	101.051	0	0	207.023
AnteOperam	327.199	214.465	107.222	UL-RL	0.401	3.601	50	103.05	0	0	210.273
AnteOperam	326.999	216.966	108.474	UL-RL	0.401	3.601	50	105.05	0	0	213.523
AnteOperam	326.799	219.467	109.725	UL-RL	0.401	3.601	50	107.049	0	0	216.773
AnteOperam	326.599	221.969	110.976	UL-RL	0.401	3.601	50	109.049	0	0	220.025
AnteOperam	326.399	224.47	112.228	UL-RL	0.401	3.601	50	111.048	0	0	223.275
AnteOperam	326.199	226.971	113.479	UL-RL	0.401	3.601	50	113.047	0	0	226.525
AnteOperam	325.999	229.472	114.73	UL-RL	0.401	3.601	50	115.046	0	0	229.776
AnteOperam	325.799	231.973	115.981	UL-RL	0.401	3.601	50	117.045	0	0	233.026
AnteOperam	325.599	234.474	117.232	UL-RL	0.401	3.601	50	119.044	0	0	236.276
AnteOperam	325.399	236.975	118.483	UL-RL	0.401	3.601	50	121.043	0	0	239.526
AnteOperam	325.199	239.476	119.734	UL-RL	0.401	3.601	50	123.042	0	0	242.776

Design Assumption: Nominal	Risultati Terreno	Muro: LEFT			Lato RIGHT					
Stage	Z (m)	Sigma V	Sigma H	Stato	Ka	Kp	Coesione	Pore	Gradiente	U*	Peq
AnteOperam	324.999	241.978	120.986	UL-RL	0.401	3.601	50	125.042	0	0	246.028
AnteOperam	324.799	244.479	122.237	UL-RL	0.401	3.601	50	127.041	0	0	249.278
AnteOperam	324.599	246.98	123.488	UL-RL	0.401	3.601	50	129.041	0	0	252.528
AnteOperam	324.399	249.481	124.739	UL-RL	0.401	3.601	50	131.04	0	0	255.779
AnteOperam	324.199	251.982	125.99	UL-RL	0.401	3.601	50	133.039	0	0	259.029
AnteOperam	324	254.471	127.236	V-C	0.401	3.601	50	135.029	0	0	262.264

5.5.2. Tabella Risultati Terreno Left Wall - Nominal - Pre-scavo+Pali

Design Assumption: Nominal	Risultati Terreno		Muro:	LEFT		Lato	LEFT				
Stage	Z (m)	Sigma V	Sigma H	Stato	Ka	Kp	Coesione	Pore	Gradiente	U*	Peq
Pre-scavo+Pali	339	0	0	ACTIVE	0.322	4.555	10	0	0	0	0
Pre-scavo+Pali	338.8	3.8	8.659	UL-RL	0.322	4.555	10	0	0	0	8.659
Pre-scavo+Pali	338.6	7.6	12.555	UL-RL	0.322	4.555	10	0	0	0	12.555
Pre-scavo+Pali	338.4	11.4	15.735	UL-RL	0.322	4.555	10	0	0	0	15.735
Pre-scavo+Pali	338.2	15.2	18.569	UL-RL	0.322	4.555	10	0	0	0	18.569
Pre-scavo+Pali	338	19.002	21.197	UL-RL	0.322	4.555	10	0	0	0	21.197
Pre-scavo+Pali	337.8	22.802	23.686	UL-RL	0.322	4.555	10	0	0	0	23.686
Pre-scavo+Pali	337.6	26.602	26.076	UL-RL	0.322	4.555	10	0	0	0	26.076
Pre-scavo+Pali	337.4	29.699	28.08	UL-RL	0.322	4.555	10	0.703	-0.003	0	28.783
Pre-scavo+Pali	337.2	31.494	29.155	UL-RL	0.322	4.555	10	2.708	-0.003	0	31.863
Pre-scavo+Pali	337	33.288	30.218	UL-RL	0.322	4.555	10	4.714	-0.003	0	34.932
Pre-scavo+Pali	336.8	35.083	31.27	UL-RL	0.322	4.555	10	6.719	-0.003	0	37.99
Pre-scavo+Pali	336.6	36.877	32.314	UL-RL	0.322	4.555	10	8.725	-0.003	0	41.038
Pre-scavo+Pali	336.4	38.673	33.349	UL-RL	0.322	4.555	10	10.731	-0.003	0	44.08
Pre-scavo+Pali	336.2	40.467	34.376	UL-RL	0.322	4.555	10	12.737	-0.003	0	47.112
Pre-scavo+Pali	336	42.262	35.396	UL-RL	0.322	4.555	10	14.742	-0.003	0	50.138
Pre-scavo+Pali	335.8	44.056	36.409	UL-RL	0.322	4.555	10	16.748	-0.003	0	53.157
Pre-scavo+Pali	335.6	45.851	37.416	UL-RL	0.322	4.555	10	18.753	-0.003	0	56.169
Pre-scavo+Pali	335.4	47.645	38.418	UL-RL	0.322	4.555	10	20.759	-0.003	0	59.177
Pre-scavo+Pali	335.2	49.44	39.415	UL-RL	0.322	4.555	10	22.764	-0.003	0	62.179
Pre-scavo+Pali	335	51.234	45.293	UL-RL	0.491	3.404	10	24.77	-0.003	0	70.062
Pre-scavo+Pali	334.8	53.23	46.535	UL-RL	0.491	3.404	10	26.776	-0.003	0	73.311
Pre-scavo+Pali	334.6	55.224	47.771	UL-RL	0.491	3.404	10	28.782	-0.003	0	76.552
Pre-scavo+Pali	334.4	57.219	49.001	UL-RL	0.491	3.404	10	30.787	-0.003	0	79.788
Pre-scavo+Pali	334.2	59.214	50.227	UL-RL	0.491	3.404	10	32.792	-0.003	0	83.019
Pre-scavo+Pali	334	61.208	51.447	UL-RL	0.491	3.404	10	34.798	-0.003	0	86.245
Pre-scavo+Pali	333.8	63.203	52.663	UL-RL	0.491	3.404	10	36.803	-0.003	0	89.466
Pre-scavo+Pali	333.6	65.197	53.875	UL-RL	0.491	3.404	10	38.809	-0.003	0	92.683
Pre-scavo+Pali	333.4	67.192	55.082	UL-RL	0.491	3.404	10	40.814	-0.003	0	95.896
Pre-scavo+Pali	333.2	69.187	56.286	UL-RL	0.491	3.404	10	42.821	-0.003	0	99.107
Pre-scavo+Pali	333	71.182	57.486	UL-RL	0.491	3.404	10	44.826	-0.003	0	102.313
Pre-scavo+Pali	332.8	73.176	58.683	UL-RL	0.491	3.404	10	46.832	-0.003	0	105.515
Pre-scavo+Pali	332.6	75.171	59.876	UL-RL	0.491	3.404	10	48.837	-0.003	0	108.713
Pre-scavo+Pali	332.4	77.165	61.066	UL-RL	0.491	3.404	10	50.843	-0.003	0	111.909
Pre-scavo+Pali	332.2	79.16	62.253	UL-RL	0.491	3.404	10	52.848	-0.003	0	115.102
Pre-scavo+Pali	332	81.154	63.438	UL-RL	0.491	3.404	10	54.854	-0.003	0	118.291
Pre-scavo+Pali	331.8	83.149	64.62	UL-RL	0.491	3.404	10	56.859	-0.003	0	121.479
Pre-scavo+Pali	331.6	85.144	65.799	UL-RL	0.491	3.404	10	58.866	-0.003	0	124.665
Pre-scavo+Pali	331.4	87.139	66.976	UL-RL	0.491	3.404	10	60.871	-0.003	0	127.847
Pre-scavo+Pali	331.2	89.134	68.151	UL-RL	0.491	3.404	10	62.876	-0.003	0	131.028
Pre-scavo+Pali	331	91.129	61.685	UL-RL	0.481	3.601	50	64.882	0	0	126.567
Pre-scavo+Pali	330.8	93.629	62.992	UL-RL	0.481	3.601	50	66.882	0	0	129.874
Pre-scavo+Pali	330.6	96.128	64.296	UL-RL	0.481	3.601	50	68.883	0	0	133.18
Pre-scavo+Pali	330.4	98.628	65.599	UL-RL	0.481	3.601	50	70.884	0	0	136.482
Pre-scavo+Pali	330.2	101.127	66.899	UL-RL	0.481	3.601	50	72.884	0	0	139.783
Pre-scavo+Pali	330	103.627	68.197	UL-RL	0.481	3.601	50	74.885	0	0	143.082
Pre-scavo+Pali	329.799	106.127	69.494	UL-RL	0.481	3.601	50	76.886	0	0	146.38
Pre-scavo+Pali	329.599	108.627	70.789	UL-RL	0.481	3.601	50	78.887	0	0	149.676
Pre-scavo+Pali	329.399	111.126	72.082	UL-RL	0.481	3.601	50	80.887	0	0	152.969
Pre-scavo+Pali	329.199	113.626	73.373	UL-RL	0.481	3.601	50	82.888	0	0	156.261
Pre-scavo+Pali	328.999	116.125	74.663	UL-RL	0.481	3.601	50	84.888	0	0	159.552
Pre-scavo+Pali	328.799	118.624	75.952	UL-RL	0.481	3.601	50	86.889	0	0	162.841
Pre-scavo+Pali	328.599	121.124	77.239	UL-RL	0.481	3.601	50	88.89	0	0	166.128
Pre-scavo+Pali	328.399	123.623	78.525	UL-RL	0.481	3.601	50	90.89	0	0	169.415
Pre-scavo+Pali	328.199	126.124	79.811	UL-RL	0.481	3.601	50	92.892	0	0	172.702
Pre-scavo+Pali	327.999	128.624	81.094	UL-RL	0.481	3.601	50	94.892	0	0	175.986
Pre-scavo+Pali	327.799	131.123	82.377	UL-RL	0.481	3.601	50	96.893	0	0	179.27
Pre-scavo+Pali	327.599	133.622	83.659	UL-RL	0.481	3.601	50	98.893	0	0	182.552
Pre-scavo+Pali	327.399	136.122	84.939	UL-RL	0.481	3.601	50	100.894	0	0	185.833
Pre-scavo+Pali	327.199	138.621	86.219	UL-RL	0.481	3.601	50	102.894	0	0	189.113
Pre-scavo+Pali	326.999	141.121	87.498	UL-RL	0.481	3.601	50	104.895	0	0	192.393
Pre-scavo+Pali	326.799	143.62	88.776	UL-RL	0.481	3.601	50	106.895	0	0	195.671
Pre-scavo+Pali	326.599	146.121	90.054	UL-RL	0.481	3.601	50	108.897	0	0	198.951
Pre-scavo+Pali	326.399	148.62	91.33	UL-RL	0.481	3.601	50	110.898	0	0	202.228
Pre-scavo+Pali	326.199	151.12	92.606	UL-RL	0.481	3.601	50	112.898	0	0	205.504
Pre-scavo+Pali	325.999	153.619	93.881	UL-RL	0.481	3.601	50	114.899	0	0	208.78
Pre-scavo+Pali	325.799	156.119	95.156	UL-RL	0.481	3.601	50	116.899	0	0	212.055

Design Assumption:	Nominal	Risultati Terreno	Muro:	LEFT		Lato	LEFT				
Stage	Z (m)	Sigma V	Sigma H	Stato	Ka	Kp	Coesione	Pore	Gradiente	U*	Peq
Pre-scavo+Pali	325.599	158.618	96.429	UL-RL	0.481	3.601	50	118.9	0	0	215.329
Pre-scavo+Pali	325.399	161.118	97.702	UL-RL	0.481	3.601	50	120.9	0	0	218.603
Pre-scavo+Pali	325.199	163.617	98.975	UL-RL	0.481	3.601	50	122.901	0	0	221.876
Pre-scavo+Pali	324.999	166.118	100.247	UL-RL	0.481	3.601	50	124.902	0	0	225.15
Pre-scavo+Pali	324.799	168.617	101.519	UL-RL	0.481	3.601	50	126.903	0	0	228.422
Pre-scavo+Pali	324.599	171.117	102.79	UL-RL	0.481	3.601	50	128.904	0	0	231.693
Pre-scavo+Pali	324.399	173.616	104.06	UL-RL	0.481	3.601	50	130.904	0	0	234.964
Pre-scavo+Pali	324.199	176.116	105.33	UL-RL	0.481	3.601	50	132.904	0	0	238.234
Pre-scavo+Pali	324	178.604	106.593	UL-RL	0.481	3.601	50	134.896	0	0	241.49

Design Assumption: Nominal		Risultati Terreno	Muro:	LEFT		Lato	RIGHT				
Stage	Z (m)	Sigma V	Sigma H	Stato	Ka	Kp	Coesione	Pore	Gradiente	U*	Peq
Pre-scavo+Pali	339	0	0.031	UL-RL	0.32	4.555	10	0	0	0	0.031
Pre-scavo+Pali	338.8	3.8	8.738	UL-RL	0.32	4.555	10	0	0	0	8.738
Pre-scavo+Pali	338.6	7.6	12.634	UL-RL	0.32	4.555	10	0	0	0	12.634
Pre-scavo+Pali	338.4	11.4	15.813	UL-RL	0.32	4.555	10	0	0	0	15.813
Pre-scavo+Pali	338.2	15.2	18.646	UL-RL	0.32	4.555	10	0	0	0	18.646
Pre-scavo+Pali	338	19.002	21.274	UL-RL	0.32	4.555	10	0	0	0	21.274
Pre-scavo+Pali	337.8	22.802	23.762	UL-RL	0.32	4.555	10	0	0	0	23.762
Pre-scavo+Pali	337.6	26.602	26.151	UL-RL	0.32	4.555	10	0	0	0	26.151
Pre-scavo+Pali	337.4	29.311	27.559	UL-RL	0.32	4.555	10	1.091	-0.003	0	28.651
Pre-scavo+Pali	337.2	31.116	28.652	UL-RL	0.32	4.555	10	3.086	-0.003	0	31.738
Pre-scavo+Pali	337	32.922	29.732	UL-RL	0.32	4.555	10	5.08	-0.003	0	34.812
Pre-scavo+Pali	336.8	34.727	30.801	UL-RL	0.32	4.555	10	7.075	-0.003	0	37.876
Pre-scavo+Pali	336.6	36.533	31.86	UL-RL	0.32	4.555	10	9.069	-0.003	0	40.93
Pre-scavo+Pali	336.4	38.339	32.911	UL-RL	0.32	4.555	10	11.065	-0.003	0	43.976
Pre-scavo+Pali	336.2	40.144	33.953	UL-RL	0.32	4.555	10	13.059	-0.003	0	47.013
Pre-scavo+Pali	336	41.95	34.988	UL-RL	0.32	4.555	10	15.054	-0.003	0	50.042
Pre-scavo+Pali	335.8	43.755	36.016	UL-RL	0.32	4.555	10	17.049	-0.003	0	53.064
Pre-scavo+Pali	335.6	45.561	37.037	UL-RL	0.32	4.555	10	19.043	-0.003	0	56.08
Pre-scavo+Pali	335.4	47.366	38.053	UL-RL	0.32	4.555	10	21.038	-0.003	0	59.091
Pre-scavo+Pali	335.2	49.172	39.064	UL-RL	0.32	4.555	10	23.032	-0.003	0	62.096
Pre-scavo+Pali	335	50.977	45.146	UL-RL	0.39	3.404	10	25.027	-0.003	0	70.173
Pre-scavo+Pali	334.8	52.984	46.389	UL-RL	0.39	3.404	10	27.022	-0.003	0	73.411
Pre-scavo+Pali	334.6	54.989	47.626	UL-RL	0.39	3.404	10	29.017	-0.003	0	76.643
Pre-scavo+Pali	334.4	56.995	48.857	UL-RL	0.39	3.404	10	31.011	-0.003	0	79.869
Pre-scavo+Pali	334.2	59	50.084	UL-RL	0.39	3.404	10	33.006	-0.003	0	83.09
Pre-scavo+Pali	334	61.006	51.307	UL-RL	0.39	3.404	10	35	-0.003	0	86.307
Pre-scavo+Pali	333.8	63.011	52.525	UL-RL	0.39	3.404	10	36.995	-0.003	0	89.52
Pre-scavo+Pali	333.6	65.017	53.74	UL-RL	0.39	3.404	10	38.989	-0.003	0	92.729
Pre-scavo+Pali	333.4	67.022	54.951	UL-RL	0.39	3.404	10	40.984	-0.003	0	95.935
Pre-scavo+Pali	333.2	69.029	56.16	UL-RL	0.39	3.404	10	42.979	-0.003	0	99.14
Pre-scavo+Pali	333	71.034	57.366	UL-RL	0.39	3.404	10	44.974	-0.003	0	102.34
Pre-scavo+Pali	332.8	73.04	58.568	UL-RL	0.39	3.404	10	46.968	-0.003	0	105.537
Pre-scavo+Pali	332.6	75.045	59.768	UL-RL	0.39	3.404	10	48.963	-0.003	0	108.732
Pre-scavo+Pali	332.4	77.05	60.966	UL-RL	0.39	3.404	10	50.958	-0.003	0	111.924
Pre-scavo+Pali	332.2	79.056	62.162	UL-RL	0.39	3.404	10	52.952	-0.003	0	115.114
Pre-scavo+Pali	332	81.061	63.356	UL-RL	0.39	3.404	10	54.947	-0.003	0	118.302
Pre-scavo+Pali	331.8	83.067	64.547	UL-RL	0.39	3.404	10	56.941	-0.003	0	121.488
Pre-scavo+Pali	331.6	85.073	65.738	UL-RL	0.39	3.404	10	58.937	-0.003	0	124.674
Pre-scavo+Pali	331.4	87.079	66.926	UL-RL	0.39	3.404	10	60.931	-0.003	0	127.857
Pre-scavo+Pali	331.2	89.084	68.112	UL-RL	0.39	3.404	10	62.926	-0.003	0	131.038
Pre-scavo+Pali	331	91.091	61.643	UL-RL	0.376	3.601	50	64.92	0	0	126.563
Pre-scavo+Pali	330.8	93.592	62.95	UL-RL	0.376	3.601	50	66.92	0	0	129.869
Pre-scavo+Pali	330.6	96.092	64.255	UL-RL	0.376	3.601	50	68.919	0	0	133.174
Pre-scavo+Pali	330.4	98.593	65.557	UL-RL	0.376	3.601	50	70.919	0	0	136.476
Pre-scavo+Pali	330.2	101.093	66.858	UL-RL	0.376	3.601	50	72.918	0	0	139.776
Pre-scavo+Pali	330	103.594	68.157	UL-RL	0.376	3.601	50	74.918	0	0	143.075
Pre-scavo+Pali	329.799	106.096	69.455	UL-RL	0.376	3.601	50	76.918	0	0	146.373
Pre-scavo+Pali	329.599	108.596	70.751	UL-RL	0.376	3.601	50	78.917	0	0	149.668
Pre-scavo+Pali	329.399	111.097	72.045	UL-RL	0.376	3.601	50	80.917	0	0	152.962
Pre-scavo+Pali	329.199	113.597	73.337	UL-RL	0.376	3.601	50	82.916	0	0	156.254
Pre-scavo+Pali	328.999	116.098	74.629	UL-RL	0.376	3.601	50	84.916	0	0	159.544
Pre-scavo+Pali	328.799	118.598	75.919	UL-RL	0.376	3.601	50	86.915	0	0	162.834
Pre-scavo+Pali	328.599	121.099	77.207	UL-RL	0.376	3.601	50	88.915	0	0	166.122
Pre-scavo+Pali	328.399	123.599	78.495	UL-RL	0.376	3.601	50	90.914	0	0	169.409
Pre-scavo+Pali	328.199	126.101	79.782	UL-RL	0.376	3.601	50	92.915	0	0	172.696
Pre-scavo+Pali	327.999	128.602	81.067	UL-RL	0.376	3.601	50	94.914	0	0	175.981
Pre-scavo+Pali	327.799	131.102	82.351	UL-RL	0.376	3.601	50	96.913	0	0	179.264
Pre-scavo+Pali	327.599	133.603	83.634	UL-RL	0.376	3.601	50	98.913	0	0	182.547
Pre-scavo+Pali	327.399	136.103	84.916	UL-RL	0.376	3.601	50	100.912	0	0	185.829
Pre-scavo+Pali	327.199	138.604	86.198	UL-RL	0.376	3.601	50	102.912	0	0	189.109
Pre-scavo+Pali	326.999	141.104	87.478	UL-RL	0.376	3.601	50	104.911	0	0	192.389
Pre-scavo+Pali	326.799	143.605	88.758	UL-RL	0.376	3.601	50	106.911	0	0	195.668
Pre-scavo+Pali	326.599	146.107	90.037	UL-RL	0.376	3.601	50	108.911	0	0	198.948
Pre-scavo+Pali	326.399	148.607	91.315	UL-RL	0.376	3.601	50	110.911	0	0	202.226
Pre-scavo+Pali	326.199	151.108	92.592	UL-RL	0.376	3.601	50	112.91	0	0	205.502
Pre-scavo+Pali	325.999	153.608	93.869	UL-RL	0.376	3.601	50	114.91	0	0	208.778
Pre-scavo+Pali	325.799	156.109	95.144	UL-RL	0.376	3.601	50	116.909	0	0	212.054
Pre-scavo+Pali	325.599	158.61	96.42	UL-RL	0.376	3.601	50	118.908	0	0	215.328
Pre-scavo+Pali	325.399	161.11	97.694	UL-RL	0.376	3.601	50	120.908	0	0	218.602
Pre-scavo+Pali	325.199	163.611	98.968	UL-RL	0.376	3.601	50	122.907	0	0	221.876

Design Assumption: Nominal	Risultati Terreno		Muro: LEFT			Lato RIGHT				
Stage	Z (m)	Sigma V	Sigma H	Stato	Ka	Kp	Coesione	Pore	Gradiente	U*	Peq
Pre-scavo+Pali	324.999	166.112	100.242	UL-RL	0.376	3.601	50	124.908	0	0	225.15
Pre-scavo+Pali	324.799	168.613	101.515	UL-RL	0.376	3.601	50	126.907	0	0	228.422
Pre-scavo+Pali	324.599	171.114	102.787	UL-RL	0.376	3.601	50	128.907	0	0	231.694
Pre-scavo+Pali	324.399	173.614	104.059	UL-RL	0.376	3.601	50	130.906	0	0	234.965
Pre-scavo+Pali	324.199	176.115	105.33	UL-RL	0.376	3.601	50	132.906	0	0	238.236
Pre-scavo+Pali	324	178.604	106.595	UL-RL	0.376	3.601	50	134.896	0	0	241.492

5.5.3. Tabella Risultati Terreno Left Wall - Nominal - Scavo finale

Design Assumption: Nominal	Risultati Terreno		Muro:	LEFT		Lato	LEFT				
Stage	Z (m)	Sigma V	Sigma H	Stato	Ka	Kp	Coesione	Pore	Gradiente	U*	Peq
Scavo finale	339	0	0	ACTIVE	0.322	4.555	10	0	0	0	0
Scavo finale	338.8	3.8	0	ACTIVE	0.322	4.555	10	0	0	0	0
Scavo finale	338.6	7.6	0	ACTIVE	0.322	4.555	10	0	0	0	0
Scavo finale	338.4	11.4	0	ACTIVE	0.322	4.555	10	0	0	0	0
Scavo finale	338.2	15.2	0	ACTIVE	0.322	4.555	10	0	0	0	0
Scavo finale	338	19.002	0	ACTIVE	0.322	4.555	10	0	0	0	0
Scavo finale	337.8	22.802	0	ACTIVE	0.322	4.555	10	0	0	0	0
Scavo finale	337.6	26.602	0	ACTIVE	0.322	4.555	10	0	0	0	0
Scavo finale	337.4	30.073	0	ACTIVE	0.322	4.555	10	0.329	0.531	0	0.329
Scavo finale	337.2	32.935	0	ACTIVE	0.322	4.555	10	1.267	0.531	0	1.267
Scavo finale	337	35.797	0.178	ACTIVE	0.322	4.555	10	2.205	0.531	0	2.383
Scavo finale	336.8	38.659	1.099	ACTIVE	0.322	4.555	10	3.143	0.531	0	4.242
Scavo finale	336.6	41.521	2.021	ACTIVE	0.322	4.555	10	4.081	0.531	0	6.102
Scavo finale	336.4	44.384	2.943	ACTIVE	0.322	4.555	10	5.02	0.531	0	7.963
Scavo finale	336.2	47.246	3.864	ACTIVE	0.322	4.555	10	5.958	0.531	0	9.822
Scavo finale	336	50.108	4.786	ACTIVE	0.322	4.555	10	6.896	0.531	0	11.682
Scavo finale	335.8	52.97	5.707	ACTIVE	0.322	4.555	10	7.834	0.531	0	13.541
Scavo finale	335.6	55.831	6.629	ACTIVE	0.322	4.555	10	8.772	0.531	0	15.401
Scavo finale	335.4	58.693	7.55	ACTIVE	0.322	4.555	10	9.71	0.531	0	17.261
Scavo finale	335.2	61.555	8.472	ACTIVE	0.322	4.555	10	10.649	0.531	0	19.12
Scavo finale	335	64.417	17.615	ACTIVE	0.491	3.404	10	11.587	0.531	0	29.201
Scavo finale	334.8	67.481	19.119	ACTIVE	0.491	3.404	10	12.525	0.531	0	31.644
Scavo finale	334.6	70.543	20.622	ACTIVE	0.491	3.404	10	13.463	0.531	0	34.086
Scavo finale	334.4	73.604	22.125	ACTIVE	0.491	3.404	10	14.402	0.531	0	36.527
Scavo finale	334.2	76.666	23.629	ACTIVE	0.491	3.404	10	15.34	0.531	0	38.969
Scavo finale	334	79.728	25.132	ACTIVE	0.491	3.404	10	16.278	0.531	0	41.41
Scavo finale	333.8	82.79	26.636	ACTIVE	0.491	3.404	10	17.216	0.531	0	43.852
Scavo finale	333.6	85.852	28.139	ACTIVE	0.491	3.404	10	18.154	0.531	0	46.293
Scavo finale	333.4	88.914	29.642	ACTIVE	0.491	3.404	10	19.092	0.531	0	48.735
Scavo finale	333.2	91.977	31.147	ACTIVE	0.491	3.404	10	20.031	0.531	0	51.177
Scavo finale	333	95.039	32.65	ACTIVE	0.491	3.404	10	20.969	0.531	0	53.619
Scavo finale	332.8	98.101	34.153	ACTIVE	0.491	3.404	10	21.907	0.531	0	56.06
Scavo finale	332.6	101.163	35.657	ACTIVE	0.491	3.404	10	22.845	0.531	0	58.502
Scavo finale	332.4	104.225	37.16	ACTIVE	0.491	3.404	10	23.783	0.531	0	60.943
Scavo finale	332.2	107.287	38.663	ACTIVE	0.491	3.404	10	24.721	0.531	0	63.385
Scavo finale	332	110.348	40.167	ACTIVE	0.491	3.404	10	25.66	0.531	0	65.826
Scavo finale	331.8	113.41	41.67	ACTIVE	0.491	3.404	10	26.598	0.531	0	68.268
Scavo finale	331.6	116.474	43.174	ACTIVE	0.491	3.404	10	27.536	0.531	0	70.711
Scavo finale	331.4	119.536	44.678	ACTIVE	0.491	3.404	10	28.474	0.531	0	73.152
Scavo finale	331.2	122.598	46.181	ACTIVE	0.491	3.404	10	29.412	0.531	0	75.594
Scavo finale	331	125.658	0	ACTIVE	0.481	3.601	50	30.353	0.053	0	30.353
Scavo finale	330.8	128.264	0	ACTIVE	0.481	3.601	50	32.247	0.053	0	32.247
Scavo finale	330.6	130.871	0	ACTIVE	0.481	3.601	50	34.141	0.053	0	34.141
Scavo finale	330.4	133.477	1.274	UL-RL	0.481	3.601	50	36.034	0.053	0	37.308
Scavo finale	330.2	136.083	7.483	UL-RL	0.481	3.601	50	37.928	0.053	0	45.411
Scavo finale	330	138.689	13.461	UL-RL	0.481	3.601	50	39.822	0.053	0	53.283
Scavo finale	329.799	141.297	19.212	UL-RL	0.481	3.601	50	41.717	0.053	0	60.929
Scavo finale	329.599	143.903	24.734	UL-RL	0.481	3.601	50	43.611	0.053	0	68.344
Scavo finale	329.399	146.509	30.032	UL-RL	0.481	3.601	50	45.504	0.053	0	75.537
Scavo finale	329.199	149.115	35.113	UL-RL	0.481	3.601	50	47.398	0.053	0	82.512
Scavo finale	328.999	151.722	39.984	UL-RL	0.481	3.601	50	49.292	0.053	0	89.276
Scavo finale	328.799	154.328	44.652	UL-RL	0.481	3.601	50	51.186	0.053	0	95.838
Scavo finale	328.599	156.934	49.125	UL-RL	0.481	3.601	50	53.08	0.053	0	102.205
Scavo finale	328.399	159.54	53.414	UL-RL	0.481	3.601	50	54.973	0.053	0	108.387
Scavo finale	328.199	162.148	57.529	UL-RL	0.481	3.601	50	56.868	0.053	0	114.398
Scavo finale	327.999	164.754	61.478	UL-RL	0.481	3.601	50	58.762	0.053	0	120.24
Scavo finale	327.799	167.36	65.273	UL-RL	0.481	3.601	50	60.656	0.053	0	125.929
Scavo finale	327.599	169.966	68.925	UL-RL	0.481	3.601	50	62.55	0.053	0	131.474
Scavo finale	327.399	172.572	72.445	UL-RL	0.481	3.601	50	64.443	0.053	0	136.888
Scavo finale	327.199	175.178	75.844	UL-RL	0.481	3.601	50	66.337	0.053	0	142.181
Scavo finale	326.999	177.785	79.133	UL-RL	0.481	3.601	50	68.231	0.053	0	147.364
Scavo finale	326.799	180.391	82.324	UL-RL	0.481	3.601	50	70.125	0.053	0	152.449
Scavo finale	326.599	182.998	85.428	UL-RL	0.481	3.601	50	72.02	0.053	0	157.447
Scavo finale	326.399	185.604	88.452	UL-RL	0.481	3.601	50	73.914	0.053	0	162.366
Scavo finale	326.199	188.211	91.409	UL-RL	0.481	3.601	50	75.807	0.053	0	167.216
Scavo finale	325.999	190.817	94.308	UL-RL	0.481	3.601	50	77.701	0.053	0	172.009
Scavo finale	325.799	193.423	97.157	UL-RL	0.481	3.601	50	79.595	0.053	0	176.752

Design Assumption: Nominal		Risultati Terreno		Muro:	LEFT		Lato	LEFT			
Stage	Z (m)	Sigma V	Sigma H	Stato	Ka	Kp	Coesione	Pore	Gradiente	U*	Peq
Scavo finale	325.599	196.029	99.966	UL-RL	0.481	3.601	50	81.489	0.053	0	181.455
Scavo finale	325.399	198.635	102.742	UL-RL	0.481	3.601	50	83.383	0.053	0	186.125
Scavo finale	325.199	201.242	105.493	UL-RL	0.481	3.601	50	85.276	0.053	0	190.769
Scavo finale	324.999	203.849	108.226	UL-RL	0.481	3.601	50	87.171	0.053	0	195.397
Scavo finale	324.799	206.455	110.943	UL-RL	0.481	3.601	50	89.065	0.053	0	200.008
Scavo finale	324.599	209.062	113.651	UL-RL	0.481	3.601	50	90.959	0.053	0	204.61
Scavo finale	324.399	211.668	116.354	UL-RL	0.481	3.601	50	92.853	0.053	0	209.207
Scavo finale	324.199	214.274	119.055	UL-RL	0.481	3.601	50	94.746	0.053	0	213.801
Scavo finale	324	216.868	121.742	UL-RL	0.481	3.601	50	96.632	0.053	0	218.374

Design Assumption:	Nominal	Risultati Terreno	Muro:	LEFT		Lato	RIGHT				
Stage	Z (m)	Sigma V	Sigma H	Stato	Ka	Kp	Coesione	Pore	Gradiente	U*	Peq
Scavo finale	339	0	0	REMOVED	0	0	0	0	0	0	0
Scavo finale	338.8	0	0	REMOVED	0	0	0	0	0	0	0
Scavo finale	338.6	0	0	REMOVED	0	0	0	0	0	0	0
Scavo finale	338.4	0	0	REMOVED	0	0	0	0	0	0	0
Scavo finale	338.2	0	0	REMOVED	0	0	0	0	0	0	0
Scavo finale	338	0	0	REMOVED	0	0	0	0	0	0	0
Scavo finale	337.8	0	0	REMOVED	0	0	0	0	0	0	0
Scavo finale	337.6	0	0	REMOVED	0	0	0	0	0	0	0
Scavo finale	337.4	0	0	REMOVED	0	0	0	0	0	0	0
Scavo finale	337.2	0	0	REMOVED	0	0	0	0	0	0	0
Scavo finale	337	0	0	REMOVED	0	0	0	0	0	0	0
Scavo finale	336.8	0	0	REMOVED	0	0	0	0	0	0	0
Scavo finale	336.6	0	0	REMOVED	0	0	0	0	0	0	0
Scavo finale	336.4	0	0	REMOVED	0	0	0	0	0	0	0
Scavo finale	336.2	0	0	REMOVED	0	0	0	0	0	0	0
Scavo finale	336	0	0	REMOVED	0	0	0	0	0	0	0
Scavo finale	335.8	0	0	REMOVED	0	0	0	0	0	0	0
Scavo finale	335.6	0	0	REMOVED	0	0	0	0	0	0	0
Scavo finale	335.4	0	0	REMOVED	0	0	0	0	0	0	0
Scavo finale	335.2	0	0	REMOVED	0	0	0	0	0	0	0
Scavo finale	335	0	0	REMOVED	0	0	0	0	0	0	0
Scavo finale	334.8	0	0	REMOVED	0	0	0	0	0	0	0
Scavo finale	334.6	0	0	REMOVED	0	0	0	0	0	0	0
Scavo finale	334.4	0	0	REMOVED	0	0	0	0	0	0	0
Scavo finale	334.2	0	0	REMOVED	0	0	0	0	0	0	0
Scavo finale	334	0	0	REMOVED	0	0	0	0	0	0	0
Scavo finale	333.8	0	0	REMOVED	0	0	0	0	0	0	0
Scavo finale	333.6	0	0	REMOVED	0	0	0	0	0	0	0
Scavo finale	333.4	0	0	REMOVED	0	0	0	0	0	0	0
Scavo finale	333.2	0	0	REMOVED	0	0	0	0	0	0	0
Scavo finale	333	0.008	36.927	PASSIVE	0.39	3.404	10	0	0	0	36.927
Scavo finale	332.8	4.008	50.543	PASSIVE	0.39	3.404	10	0	0	0	50.543
Scavo finale	332.6	8.008	64.159	PASSIVE	0.39	3.404	10	0	0	0	64.159
Scavo finale	332.4	10.52	72.71	PASSIVE	0.39	3.404	10	1.488	0.531	0	74.198
Scavo finale	332.2	11.458	75.903	PASSIVE	0.39	3.404	10	4.55	0.531	0	80.453
Scavo finale	332	12.396	79.096	PASSIVE	0.39	3.404	10	7.612	0.531	0	86.708
Scavo finale	331.8	13.334	82.29	PASSIVE	0.39	3.404	10	10.674	0.531	0	92.964
Scavo finale	331.6	14.273	85.485	PASSIVE	0.39	3.404	10	13.737	0.531	0	99.222
Scavo finale	331.4	15.211	88.678	PASSIVE	0.39	3.404	10	16.799	0.531	0	105.477
Scavo finale	331.2	16.149	91.872	PASSIVE	0.39	3.404	10	19.861	0.531	0	111.732
Scavo finale	331	17.091	87.366	V-C	0.376	3.601	50	22.92	0.053	0	110.286
Scavo finale	330.8	19.485	87.473	V-C	0.376	3.601	50	25.027	0.053	0	112.5
Scavo finale	330.6	21.879	87.607	V-C	0.376	3.601	50	27.133	0.053	0	114.74
Scavo finale	330.4	24.272	87.775	V-C	0.376	3.601	50	29.239	0.053	0	117.014
Scavo finale	330.2	26.666	86.995	UL-RL	0.376	3.601	50	31.345	0.053	0	118.34
Scavo finale	330	29.06	85.236	UL-RL	0.376	3.601	50	33.451	0.053	0	118.687
Scavo finale	329.799	31.455	83.605	UL-RL	0.376	3.601	50	35.559	0.053	0	119.164
Scavo finale	329.599	33.849	82.109	UL-RL	0.376	3.601	50	37.665	0.053	0	119.774
Scavo finale	329.399	36.243	80.748	UL-RL	0.376	3.601	50	39.771	0.053	0	120.519
Scavo finale	329.199	38.636	79.521	UL-RL	0.376	3.601	50	41.877	0.053	0	121.398
Scavo finale	328.999	41.03	78.426	UL-RL	0.376	3.601	50	43.983	0.053	0	122.41
Scavo finale	328.799	43.424	77.461	UL-RL	0.376	3.601	50	46.089	0.053	0	123.55
Scavo finale	328.599	45.818	76.621	UL-RL	0.376	3.601	50	48.196	0.053	0	124.816
Scavo finale	328.399	48.212	75.901	UL-RL	0.376	3.601	50	50.302	0.053	0	126.202
Scavo finale	328.199	50.607	75.294	UL-RL	0.376	3.601	50	52.409	0.053	0	127.704
Scavo finale	327.999	53	74.797	UL-RL	0.376	3.601	50	54.515	0.053	0	129.312
Scavo finale	327.799	55.394	74.4	UL-RL	0.376	3.601	50	56.621	0.053	0	131.022
Scavo finale	327.599	57.788	74.098	UL-RL	0.376	3.601	50	58.728	0.053	0	132.826
Scavo finale	327.399	60.182	73.882	UL-RL	0.376	3.601	50	60.834	0.053	0	134.716
Scavo finale	327.199	62.576	73.746	UL-RL	0.376	3.601	50	62.94	0.053	0	136.686
Scavo finale	326.999	64.97	73.682	UL-RL	0.376	3.601	50	65.046	0.053	0	138.729
Scavo finale	326.799	67.363	73.683	UL-RL	0.376	3.601	50	67.152	0.053	0	140.836
Scavo finale	326.599	69.758	73.741	UL-RL	0.376	3.601	50	69.26	0.053	0	143
Scavo finale	326.399	72.152	73.849	UL-RL	0.376	3.601	50	71.366	0.053	0	145.214
Scavo finale	326.199	74.546	73.999	UL-RL	0.376	3.601	50	73.472	0.053	0	147.471
Scavo finale	325.999	76.94	74.186	UL-RL	0.376	3.601	50	75.578	0.053	0	149.764
Scavo finale	325.799	79.334	74.403	UL-RL	0.376	3.601	50	77.684	0.053	0	152.088
Scavo finale	325.599	81.727	74.644	UL-RL	0.376	3.601	50	79.791	0.053	0	154.435
Scavo finale	325.399	84.121	74.903	UL-RL	0.376	3.601	50	81.897	0.053	0	156.8
Scavo finale	325.199	86.515	75.176	UL-RL	0.376	3.601	50	84.003	0.053	0	159.179

Design Assumption: Nominal	Risultati Terreno	Muro:	LEFT		Lato	RIGHT				
Stage	Z (m)	Sigma V	Sigma H	Stato	Ka	Kp	Coesione	Pore	Gradiente	U*	Peq
Scavo finale	324.999	88.91	75.458	UL-RL	0.376	3.601	50	86.11	0.053	0	161.568
Scavo finale	324.799	91.304	75.745	UL-RL	0.376	3.601	50	88.216	0.053	0	163.962
Scavo finale	324.599	93.698	76.034	UL-RL	0.376	3.601	50	90.323	0.053	0	166.357
Scavo finale	324.399	96.091	76.323	UL-RL	0.376	3.601	50	92.429	0.053	0	168.751
Scavo finale	324.199	98.485	76.608	UL-RL	0.376	3.601	50	94.535	0.053	0	171.144
Scavo finale	324	100.868	76.89	UL-RL	0.376	3.601	50	96.632	0.053	0	173.521

5.5.4. Tabella Risultati Terreno Left Wall - Nominal - Sisma

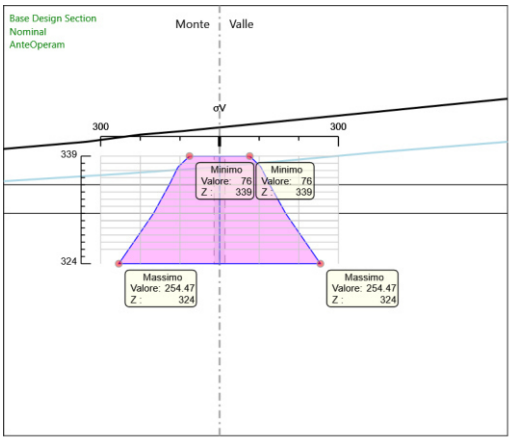
Design Assumption: Nominal	Risultati Terreno		Muro:	LEFT		Lato	LEFT				
Stage	Z (m)	Sigma V	Sigma H	Stato	Ka	Kp	Coesione	Pore	Gradiente	U*	Peq
Sisma	339	0	0	ACTIVE	0.322	4.441	10	0	0	0	0
Sisma	338.8	3.8	0	ACTIVE	0.322	4.441	10	0	0	0	0
Sisma	338.6	7.6	0	ACTIVE	0.322	4.441	10	0	0	0	0
Sisma	338.4	11.4	0	ACTIVE	0.322	4.441	10	0	0	0	0
Sisma	338.2	15.2	0	ACTIVE	0.322	4.441	10	0	0	0	0
Sisma	338	19.002	0	ACTIVE	0.322	4.441	10	0	0	0	0
Sisma	337.8	22.802	0	ACTIVE	0.322	4.441	10	0	0	0	0
Sisma	337.6	26.602	0	ACTIVE	0.322	4.441	10	0	0	0	0
Sisma	337.4	30.073	0	ACTIVE	0.322	4.419	10	0.329	0.531	0	0.329
Sisma	337.2	32.935	0	ACTIVE	0.322	4.365	10	1.267	0.531	0	1.267
Sisma	337	35.797	0.178	ACTIVE	0.322	4.32	10	2.205	0.531	0	2.383
Sisma	336.8	38.659	1.099	ACTIVE	0.322	4.281	10	3.143	0.531	0	4.242
Sisma	336.6	41.521	2.021	ACTIVE	0.322	4.248	10	4.081	0.531	0	6.102
Sisma	336.4	44.384	2.943	ACTIVE	0.322	4.219	10	5.02	0.531	0	7.963
Sisma	336.2	47.246	3.864	ACTIVE	0.322	4.193	10	5.958	0.531	0	9.822
Sisma	336	50.108	4.786	ACTIVE	0.322	4.17	10	6.896	0.531	0	11.682
Sisma	335.8	52.97	5.707	ACTIVE	0.322	4.15	10	7.834	0.531	0	13.541
Sisma	335.6	55.831	6.629	ACTIVE	0.322	4.132	10	8.772	0.531	0	15.401
Sisma	335.4	58.693	7.55	ACTIVE	0.322	4.116	10	9.71	0.531	0	17.261
Sisma	335.2	61.555	8.472	ACTIVE	0.322	4.101	10	10.649	0.531	0	19.12
Sisma	335	64.417	17.615	ACTIVE	0.491	3.008	10	11.587	0.531	0	29.201
Sisma	334.8	67.481	19.119	ACTIVE	0.491	2.998	10	12.525	0.531	0	31.644
Sisma	334.6	70.543	20.622	ACTIVE	0.491	2.989	10	13.463	0.531	0	34.086
Sisma	334.4	73.604	22.125	ACTIVE	0.491	2.98	10	14.402	0.531	0	36.527
Sisma	334.2	76.666	23.629	ACTIVE	0.491	2.973	10	15.34	0.531	0	38.969
Sisma	334	79.728	25.132	ACTIVE	0.491	2.965	10	16.278	0.531	0	41.41
Sisma	333.8	82.79	26.636	ACTIVE	0.491	2.959	10	17.216	0.531	0	43.852
Sisma	333.6	85.852	28.139	ACTIVE	0.491	2.953	10	18.154	0.531	0	46.293
Sisma	333.4	88.914	29.642	ACTIVE	0.491	2.947	10	19.092	0.531	0	48.735
Sisma	333.2	91.977	31.147	ACTIVE	0.491	2.941	10	20.031	0.531	0	51.177
Sisma	333	95.039	32.65	ACTIVE	0.491	2.936	10	20.969	0.531	0	53.619
Sisma	332.8	98.101	34.153	ACTIVE	0.491	2.932	10	21.907	0.531	0	56.06
Sisma	332.6	101.163	35.657	ACTIVE	0.491	2.927	10	22.845	0.531	0	58.502
Sisma	332.4	104.225	37.16	ACTIVE	0.491	2.923	10	23.783	0.531	0	60.943
Sisma	332.2	107.287	38.663	ACTIVE	0.491	2.919	10	24.721	0.531	0	63.385
Sisma	332	110.348	40.167	ACTIVE	0.491	2.915	10	25.66	0.531	0	65.826
Sisma	331.8	113.41	41.67	ACTIVE	0.491	2.912	10	26.598	0.531	0	68.268
Sisma	331.6	116.474	43.174	ACTIVE	0.491	2.908	10	27.536	0.531	0	70.711
Sisma	331.4	119.536	44.678	ACTIVE	0.491	2.905	10	28.474	0.531	0	73.152
Sisma	331.2	122.598	46.181	ACTIVE	0.491	2.902	10	29.412	0.531	0	75.594
Sisma	331	125.658	0	ACTIVE	0.481	3.173	50	30.353	0.053	0	30.353
Sisma	330.8	128.264	0	ACTIVE	0.481	3.172	50	32.247	0.053	0	32.247
Sisma	330.6	130.871	0	ACTIVE	0.481	3.17	50	34.141	0.053	0	34.141
Sisma	330.4	133.477	0	ACTIVE	0.481	3.168	50	36.034	0.053	0	36.034
Sisma	330.2	136.083	0	ACTIVE	0.481	3.166	50	37.928	0.053	0	37.928
Sisma	330	138.689	0	ACTIVE	0.481	3.165	50	39.822	0.053	0	39.822
Sisma	329.799	141.297	0	ACTIVE	0.481	3.163	50	41.717	0.053	0	41.717
Sisma	329.599	143.903	0	ACTIVE	0.481	3.162	50	43.611	0.053	0	43.611
Sisma	329.399	146.509	1.117	ACTIVE	0.481	3.16	50	45.504	0.053	0	46.621
Sisma	329.199	149.115	2.37	ACTIVE	0.481	3.159	50	47.398	0.053	0	49.769
Sisma	328.999	151.722	3.624	ACTIVE	0.481	3.158	50	49.292	0.053	0	52.916
Sisma	328.799	154.328	4.877	ACTIVE	0.481	3.156	50	51.186	0.053	0	56.063
Sisma	328.599	156.934	6.131	ACTIVE	0.481	3.155	50	53.08	0.053	0	59.211
Sisma	328.399	159.54	7.385	ACTIVE	0.481	3.154	50	54.973	0.053	0	62.358
Sisma	328.199	162.148	8.639	ACTIVE	0.481	3.153	50	56.868	0.053	0	65.507
Sisma	327.999	164.754	9.892	ACTIVE	0.481	3.152	50	58.762	0.053	0	68.654
Sisma	327.799	167.36	11.146	ACTIVE	0.481	3.151	50	60.656	0.053	0	71.802
Sisma	327.599	169.966	23.876	UL-RL	0.481	3.15	50	62.55	0.053	0	86.426
Sisma	327.399	172.572	37.324	UL-RL	0.481	3.149	50	64.443	0.053	0	101.767
Sisma	327.199	175.178	50.37	UL-RL	0.481	3.148	50	66.337	0.053	0	116.707
Sisma	326.999	177.785	63.046	UL-RL	0.481	3.147	50	68.231	0.053	0	131.277
Sisma	326.799	180.391	75.386	UL-RL	0.481	3.146	50	70.125	0.053	0	145.511
Sisma	326.599	182.998	87.429	UL-RL	0.481	3.145	50	72.02	0.053	0	159.448
Sisma	326.399	185.604	99.196	UL-RL	0.481	3.144	50	73.914	0.053	0	173.11
Sisma	326.199	188.211	109.96	UL-RL	0.481	3.143	50	75.807	0.053	0	185.768
Sisma	325.999	190.817	115.22	UL-RL	0.481	3.142	50	77.701	0.053	0	192.921
Sisma	325.799	193.423	120.42	UL-RL	0.481	3.141	50	79.595	0.053	0	200.015

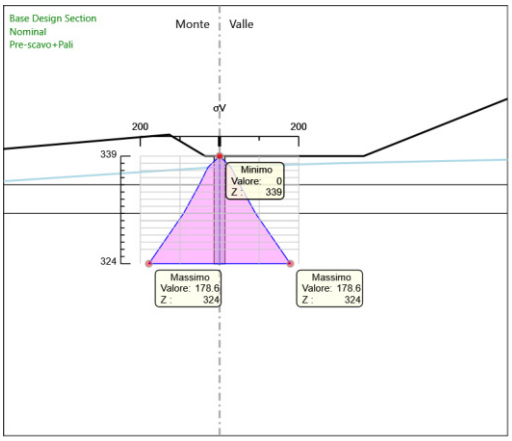
Design Assumption: Nominal	Risultati Terreno	Muro:	LEFT		Lato	LEFT				
Stage	Z (m)	Sigma V	Sigma H	Stato	Ka	Kp	Coesione	Pore	Gradiente	U*	Peq
Sisma	325.599	196.029	125.569	UL-RL	0.481	3.141	50	81.489	0.053	0	207.058
Sisma	325.399	198.635	130.677	UL-RL	0.481	3.14	50	83.383	0.053	0	214.06
Sisma	325.199	201.242	135.136	V-C	0.481	3.139	50	85.276	0.053	0	220.412
Sisma	324.999	203.849	139.549	V-C	0.481	3.138	50	87.171	0.053	0	226.72
Sisma	324.799	206.455	143.943	V-C	0.481	3.138	50	89.065	0.053	0	233.008
Sisma	324.599	209.062	148.327	V-C	0.481	3.137	50	90.959	0.053	0	239.286
Sisma	324.399	211.668	152.704	V-C	0.481	3.136	50	92.853	0.053	0	245.557
Sisma	324.199	214.274	157.078	V-C	0.481	3.136	50	94.746	0.053	0	251.825
Sisma	324	216.868	161.432	V-C	0.481	3.135	50	96.632	0.053	0	258.064

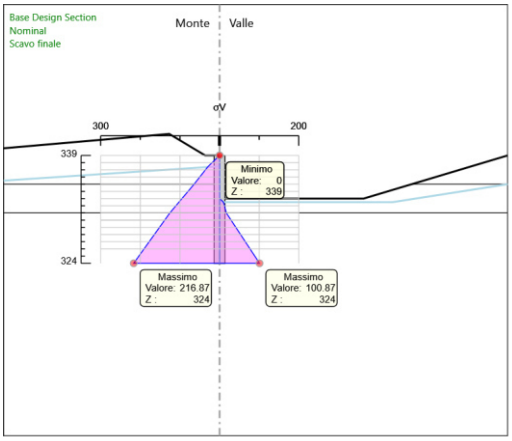
Design Assumption: Nominal	Risultati Terreno		Muro:	LEFT		Lato	RIGHT				
Stage	Z (m)	Sigma V	Sigma H	Stato	Ka	Kp	Coesione	Pore	Gradiente	U*	Peq
Sisma	339	0	0	REMOVED	0	0	0	0	0	0	0
Sisma	338.8	0	0	REMOVED	0	0	0	0	0	0	0
Sisma	338.6	0	0	REMOVED	0	0	0	0	0	0	0
Sisma	338.4	0	0	REMOVED	0	0	0	0	0	0	0
Sisma	338.2	0	0	REMOVED	0	0	0	0	0	0	0
Sisma	338	0	0	REMOVED	0	0	0	0	0	0	0
Sisma	337.8	0	0	REMOVED	0	0	0	0	0	0	0
Sisma	337.6	0	0	REMOVED	0	0	0	0	0	0	0
Sisma	337.4	0	0	REMOVED	0	0	0	0	0	0	0
Sisma	337.2	0	0	REMOVED	0	0	0	0	0	0	0
Sisma	337	0	0	REMOVED	0	0	0	0	0	0	0
Sisma	336.8	0	0	REMOVED	0	0	0	0	0	0	0
Sisma	336.6	0	0	REMOVED	0	0	0	0	0	0	0
Sisma	336.4	0	0	REMOVED	0	0	0	0	0	0	0
Sisma	336.2	0	0	REMOVED	0	0	0	0	0	0	0
Sisma	336	0	0	REMOVED	0	0	0	0	0	0	0
Sisma	335.8	0	0	REMOVED	0	0	0	0	0	0	0
Sisma	335.6	0	0	REMOVED	0	0	0	0	0	0	0
Sisma	335.4	0	0	REMOVED	0	0	0	0	0	0	0
Sisma	335.2	0	0	REMOVED	0	0	0	0	0	0	0
Sisma	335	0	0	REMOVED	0	0	0	0	0	0	0
Sisma	334.8	0	0	REMOVED	0	0	0	0	0	0	0
Sisma	334.6	0	0	REMOVED	0	0	0	0	0	0	0
Sisma	334.4	0	0	REMOVED	0	0	0	0	0	0	0
Sisma	334.2	0	0	REMOVED	0	0	0	0	0	0	0
Sisma	334	0	0	REMOVED	0	0	0	0	0	0	0
Sisma	333.8	0	0	REMOVED	0	0	0	0	0	0	0
Sisma	333.6	0	0	REMOVED	0	0	0	0	0	0	0
Sisma	333.4	0	0	REMOVED	0	0	0	0	0	0	0
Sisma	333.2	0	0	REMOVED	0	0	0	0	0	0	0
Sisma	333	0.008	34.623	PASSIVE	0.39	2.775	10.385	0	0	0	34.623
Sisma	332.8	4.008	45.724	PASSIVE	0.39	2.775	10.385	0	0	0	45.724
Sisma	332.6	8.008	56.826	PASSIVE	0.39	2.775	10.385	0	0	0	56.826
Sisma	332.4	10.52	63.415	PASSIVE	0.39	2.753	10.385	1.488	0.531	0	64.903
Sisma	332.2	11.458	65.265	PASSIVE	0.39	2.711	10.385	4.55	0.531	0	69.815
Sisma	332	12.396	67.153	PASSIVE	0.39	2.676	10.385	7.612	0.531	0	74.765
Sisma	331.8	13.334	69.071	PASSIVE	0.39	2.646	10.385	10.674	0.531	0	79.745
Sisma	331.6	14.273	71.015	PASSIVE	0.39	2.62	10.385	13.737	0.531	0	84.752
Sisma	331.4	15.211	72.977	PASSIVE	0.39	2.597	10.385	16.799	0.531	0	89.776
Sisma	331.2	16.149	74.956	PASSIVE	0.39	2.577	10.385	19.861	0.531	0	94.817
Sisma	331	17.091	154.321	V-C	0.376	2.773	51.923	22.92	0.053	0	177.241
Sisma	330.8	19.485	150.432	V-C	0.376	2.743	51.923	25.027	0.053	0	175.458
Sisma	330.6	21.879	146.652	V-C	0.376	2.719	51.923	27.133	0.053	0	173.785
Sisma	330.4	24.272	142.993	V-C	0.376	2.7	51.923	29.239	0.053	0	172.232
Sisma	330.2	26.666	139.46	V-C	0.376	2.685	51.923	31.345	0.053	0	170.805
Sisma	330	29.06	136.059	V-C	0.376	2.672	51.923	33.451	0.053	0	169.51
Sisma	329.799	31.455	132.791	V-C	0.376	2.661	51.923	35.559	0.053	0	168.35
Sisma	329.599	33.849	129.664	V-C	0.376	2.651	51.923	37.665	0.053	0	167.328
Sisma	329.399	36.243	126.675	V-C	0.376	2.643	51.923	39.771	0.053	0	166.446
Sisma	329.199	38.636	123.826	V-C	0.376	2.636	51.923	41.877	0.053	0	165.704
Sisma	328.999	41.03	121.117	V-C	0.376	2.629	51.923	43.983	0.053	0	165.1
Sisma	328.799	43.424	118.544	V-C	0.376	2.624	51.923	46.089	0.053	0	164.634
Sisma	328.599	45.818	116.107	V-C	0.376	2.619	51.923	48.196	0.053	0	164.302
Sisma	328.399	48.212	113.801	V-C	0.376	2.614	51.923	50.302	0.053	0	164.102
Sisma	328.199	50.607	111.621	V-C	0.376	2.61	51.923	52.409	0.053	0	164.03
Sisma	327.999	53	109.565	V-C	0.376	2.606	51.923	54.515	0.053	0	164.08
Sisma	327.799	55.394	107.626	V-C	0.376	2.603	51.923	56.621	0.053	0	164.248
Sisma	327.599	57.788	105.798	V-C	0.376	2.6	51.923	58.728	0.053	0	164.526
Sisma	327.399	60.182	100.26	UL-RL	0.376	2.597	51.923	60.834	0.053	0	161.094
Sisma	327.199	62.576	92.879	UL-RL	0.376	2.594	51.923	62.94	0.053	0	155.819
Sisma	326.999	64.97	85.765	UL-RL	0.376	2.592	51.923	65.046	0.053	0	150.811
Sisma	326.799	67.363	78.894	UL-RL	0.376	2.589	51.923	67.152	0.053	0	146.046
Sisma	326.599	69.758	72.238	UL-RL	0.376	2.587	51.923	69.26	0.053	0	141.498
Sisma	326.399	72.152	65.779	UL-RL	0.376	2.585	51.923	71.366	0.053	0	137.145
Sisma	326.199	74.546	59.49	UL-RL	0.376	2.583	51.923	73.472	0.053	0	132.962
Sisma	325.999	76.94	53.347	UL-RL	0.376	2.582	51.923	75.578	0.053	0	128.925
Sisma	325.799	79.334	47.326	UL-RL	0.376	2.58	51.923	77.684	0.053	0	125.011
Sisma	325.599	81.727	41.407	UL-RL	0.376	2.578	51.923	79.791	0.053	0	121.198
Sisma	325.399	84.121	35.57	UL-RL	0.376	2.577	51.923	81.897	0.053	0	117.466
Sisma	325.199	86.515	29.795	UL-RL	0.376	2.576	51.923	84.003	0.053	0	113.798

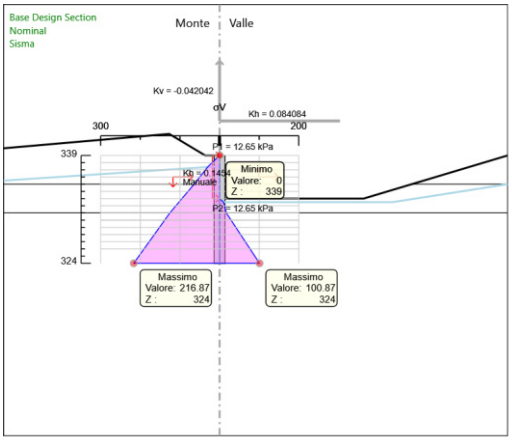
Design Assumption: Nominal	Risultati Terreno	Muro:	LEFT	Lato	RIGHT					
Stage	Z (m)	Sigma V	Sigma H	Stato	Ka	Kp	Coesione	Pore	Gradiente	U*	Peq
Sisma	324.999	88.91	24.063	UL-RL	0.376	2.574	51.923	86.11	0.053	0	110.174
Sisma	324.799	91.304	18.367	UL-RL	0.376	2.573	51.923	88.216	0.053	0	106.583
Sisma	324.599	93.698	12.689	UL-RL	0.376	2.572	51.923	90.323	0.053	0	103.012
Sisma	324.399	96.091	7.022	UL-RL	0.376	2.571	51.923	92.429	0.053	0	99.45
Sisma	324.199	98.485	1.356	UL-RL	0.376	2.57	51.923	94.535	0.053	0	95.891
Sisma	324	100.868	0	ACTIVE	0.376	2.569	51.923	96.632	0.053	0	96.632

5.6. Grafico Risultati Terreno Sigma V

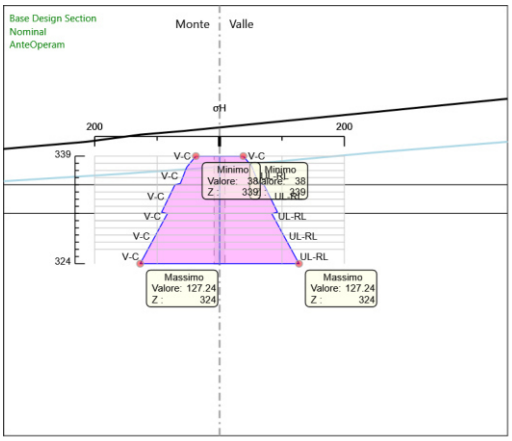


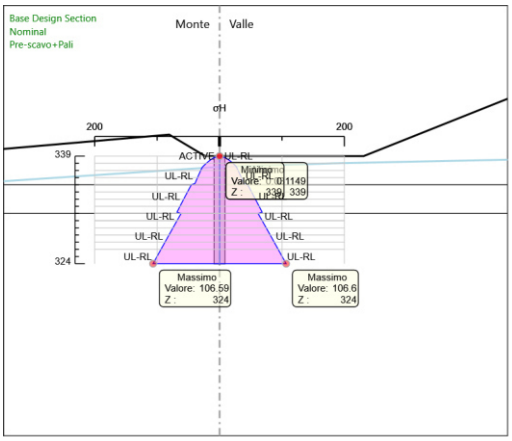


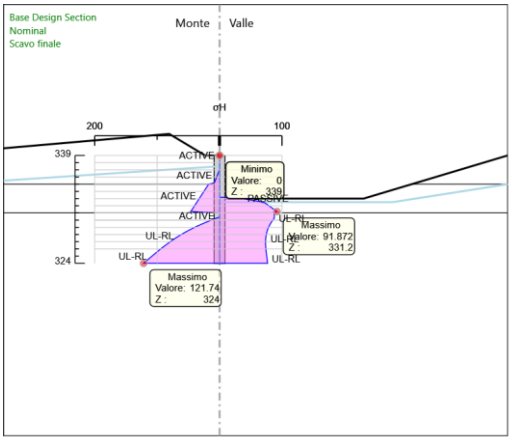


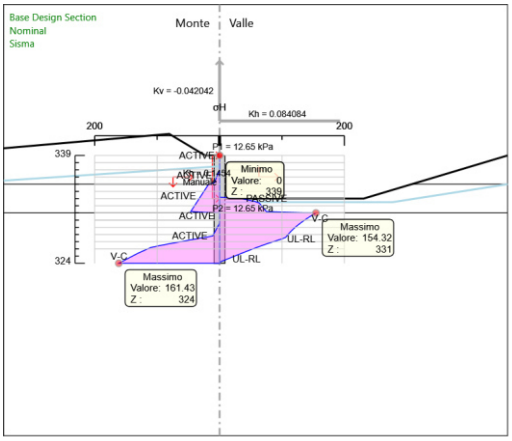


5.7. Grafico Risultati Terreno Sigma H

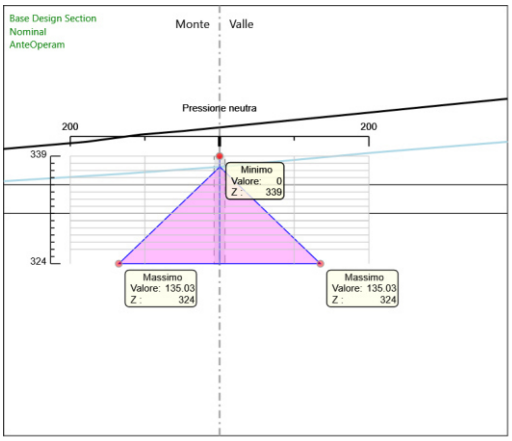


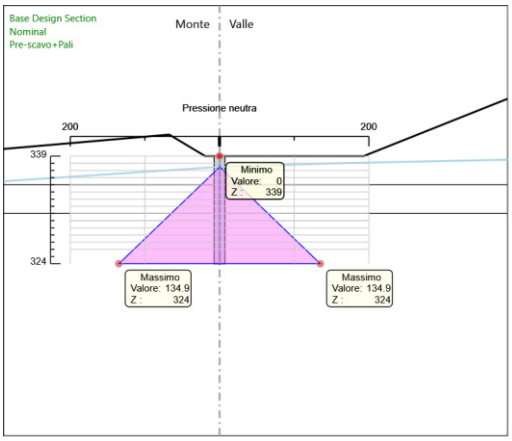


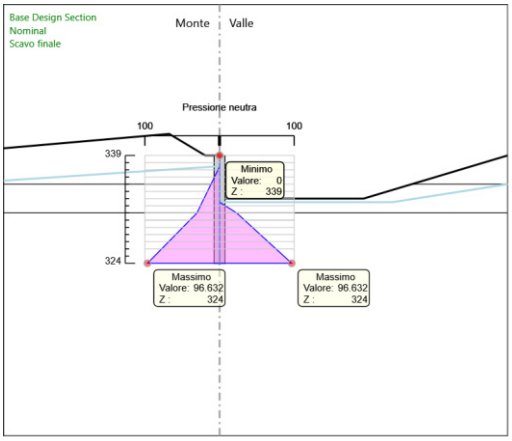


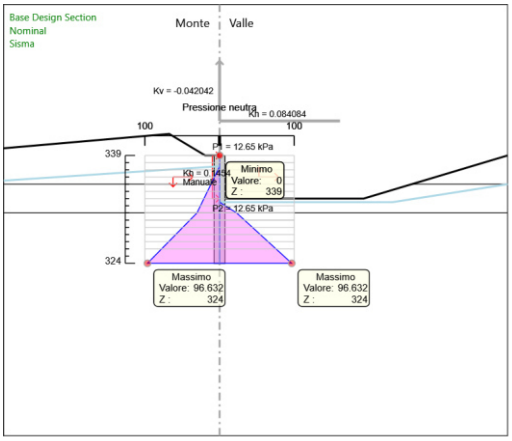


5.8. Grafico Risultati Terreno Pore

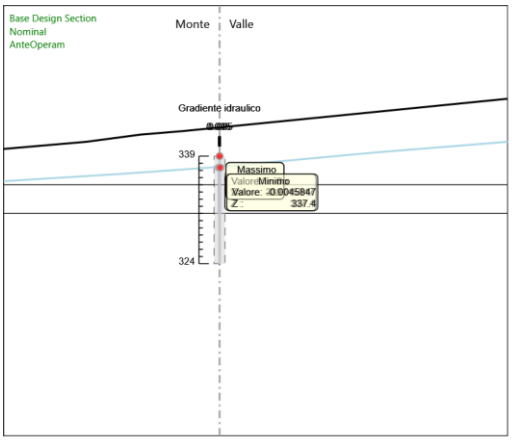


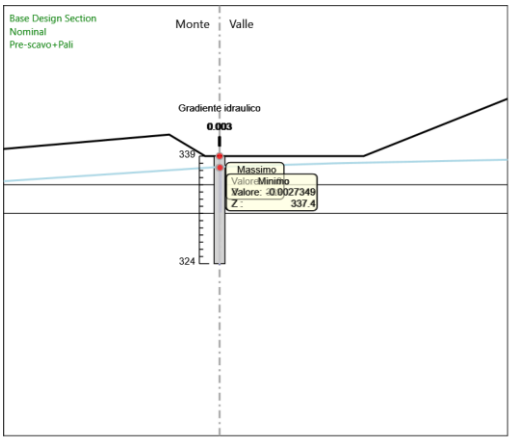


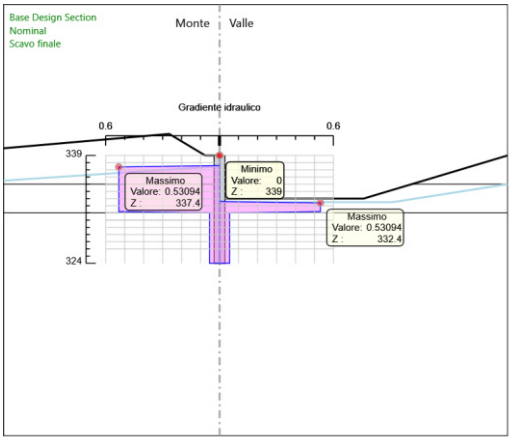


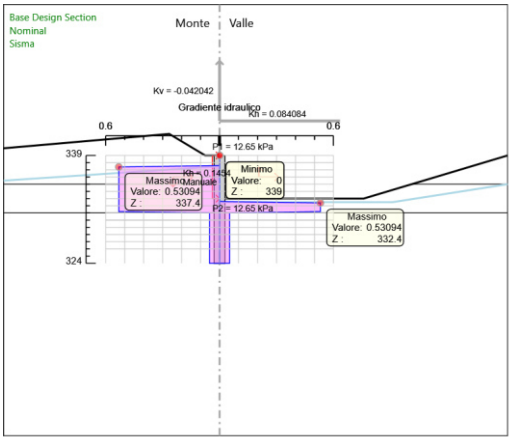


5.9. Grafico Risultati Terreno Gradiente

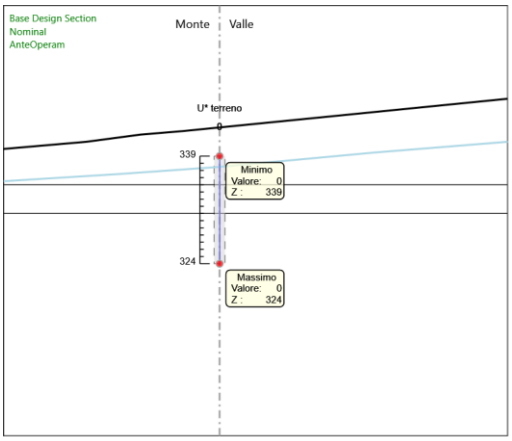


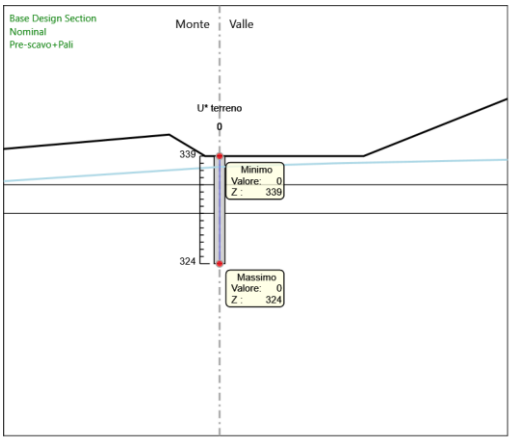


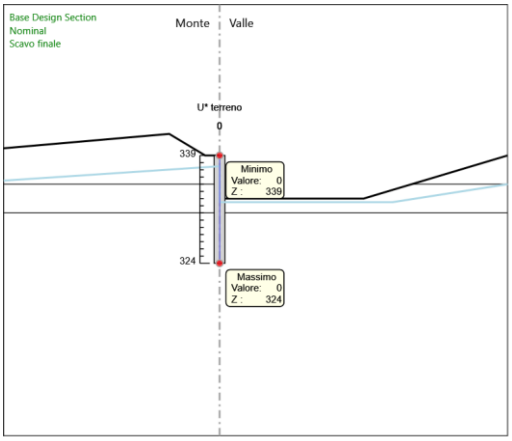


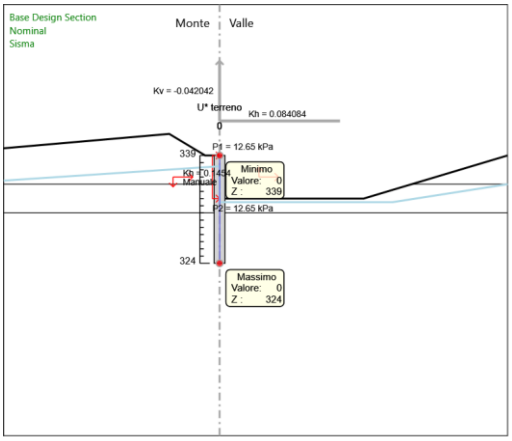


5.10. Grafico Risultati Terreno U*









5.10. Riepilogo spinte

Design Assumption: Nominal Stage	Tipo Risultato: Riepilogo spinte Vera effettiva (kN/m)	Muro: Pressione neutra (kN/m)	LEFT Vera Totale (kN/m)	Lato Min ammissibile (kN/m)	LEFT Max ammissibile (kN/m)	Percentuale di resistenza massima	Vera / Attiva
AnteOperam	1281.1	910.5	2191.6	355.3	9234.3	13.87%	3.61
Pre-scavo+Pali	929.7	909.2	1838.9	108.7	6579.1	14.13%	8.55
Scavo finale	591.3	542.7	1134	233.8	7894.8	7.49%	2.53
Sisma	546.5	542.7	1089.1	233.8	7030.9	7.77%	2.34

Design Assumption: Nominal Stage	Tipo Risultato: Riepilogo spinte Vera effettiva (kN/m)	Muro: Pressione neutra (kN/m)	LEFT Vera Totale (kN/m)	Lato Min ammissibile (kN/m)	RIGHT Max ammissibile (kN/m)	Percentuale di resistenza massima	Vera / Attiva
AnteOperam	1278.5	913	2191.6	435	10892.2	11.74%	2.94
Pre-scavo+Pali	928.1	910.7	1838.9	66.8	6572.9	14.12%	13.89
Scavo finale	698.3	435.7	1134	0	2985.8	23.39%	∞
Sisma	746.9	435.7	1182.6	0	2394.8	31.19%	∞

6. Descrizione Coefficienti Design Assumption

Coefficienti A

Nome	Carichi Permanenti Sfavorevoli (F_dead_load_unfavour)	Carichi Permanenti Favorevoli (F_dead_load_favour)	Carichi Variabili Sfavorevoli (F_live_load_unfavour)	Carichi Variabili Favorevoli (F_live_load_favour)	Carico Sismico (F_seism_load)	Pressioni Acqua Lato Monte (F_WaterDR)	Pressioni Acqua Lato Valle (F_WaterRes)	Carichi Permanenti Destabilizzanti (F_UPL_GDStab)	Carichi Permanenti Stabilizzanti (F_UPL_GStab)	Carichi Variabili Destabilizzanti (F_UPL_QDStab)	Carichi Permanenti Destabilizzanti (F_HYD_GDStab)	Carichi Permanenti Stabilizzanti (F_HYD_GStab)	Carichi Variabili Destabilizzanti (F_HYD_QDStab)
Simbolo	**γG**	**γG**	**γQ**	**γQ**	**γQE**	**γG**	**γG**	**γGdst**	**γGstb**	**γQdst**	**γGdst**	**γGstb**	**γQdst**
Nominal	1	1	1	1	1	1	1	1	1	1	1	1	1
SLE (Rara/Frequente/Quasi Permanente)	1	1	1	1	0	1	1	1	1	1	1	1	1
A1+M1+R1 (R3 per tiranti)	1.3	1	1.5	1	0	1.3	1	1	1	1	1	1	1
A2+M2+R1	1	1	1.3	1	0	1	1	1	1	1	1	1	1
SISMICA STR	1	1	1	1	1	1	1	1	1	1	1	1	1
SISMICA GEO	1	1	1	1	1	1	1	1	1	1	1	1	1
GLOBALE STATICA	1	1	1	1	0	1	1	1	1	1	1	1	1
GLOBALE SISMICA	1	1	1	1	1	1	1	1	1	1	1	1	1

Coefficienti M

Nome	Parziale su tan(ø') (F_Fr)	Parziale su c' (F_eff_cohe)	Parziale su Su (F_Su)	Parziale su qu (F_qu)	Parziale su peso specifico (F_gamma)
Simbolo	**γϕ**	**γc**	**γcu**	**γqu**	**γγ**
Nominal	1	1	1	1	1
SLE (Rara/Frequente/Quasi Permanente)	1	1	1	1	1
A1+M1+R1 (R3 per tiranti)	1	1	1	1	1
A2+M2+R1	1.25	1.25	1.4	1	1
SISMICA STR	1	1	1	1	1
SISMICA GEO	1	1	1	1	1
GLOBALE STATICA	1.25	1.25	1.4	1	1
GLOBALE SISMICA	1.25	1.25	1.4	1	1

Coefficienti R

Nome	Parziale resistenza terreno (es. Kp) (F_Soil_Res_walls)	Parziale resistenza Tiranti permanenti (F_Anch_P)	Parziale resistenza Tiranti temporanei (F_Anch_T)	Parziale elementi strutturali (F_wall)
Simbolo	**γRe**	**γap**	**γat**	
Nominal	1	1	1	1

Nome	Parziale resistenza terreno (es. Kp) (F_Soil_Res_walls)	Parziale resistenza Tiranti permanenti (F_Anch_P)	Parziale resistenza Tiranti temporanei (F_Anch_T)	Parziale elementi strutturali (F_wall)
Simbolo	γRe	γap	γat	
SLE (Rara/Frequente/Quasi Permanente)	1	1	1	1
A1+M1+R1 (R3 per tiranti)	1	1.2	1.1	1
A2+M2+R1	1	1.2	1.1	1
SISMICA STR	1	1.2	1.1	1
SISMICA GEO	1	1.2	1.1	1
GLOBALE STATICA	1	1	1	1
GLOBALE SISMICA	1	1	1	1

6.1. Risultati SLE (Rara/Frequente/Quasi Permanente)

6.1.1. Tabella Spostamento SLE (Rara/Frequente/Quasi Permanente) - LEFT Stage: AnteOperam

Design Assumption: SLE (Rara/Frequente/Quasi Permanente)	Tipo Risultato: Spostamento	Muro: LEFT
Stage	Z (m)	Spostamento orizzontale (mm)
AnteOperam	339	0
AnteOperam	338.8	0
AnteOperam	338.6	0
AnteOperam	338.4	0
AnteOperam	338.2	0
AnteOperam	338	0
AnteOperam	337.8	0
AnteOperam	337.6	0
AnteOperam	337.4	0
AnteOperam	337.2	0
AnteOperam	337	0
AnteOperam	336.8	0
AnteOperam	336.6	0
AnteOperam	336.4	0
AnteOperam	336.2	0
AnteOperam	336	0
AnteOperam	335.8	0
AnteOperam	335.6	0
AnteOperam	335.4	0
AnteOperam	335.2	0
AnteOperam	335	0
AnteOperam	334.8	0
AnteOperam	334.6	0
AnteOperam	334.4	0
AnteOperam	334.2	0
AnteOperam	334	0
AnteOperam	333.8	0
AnteOperam	333.6	0
AnteOperam	333.4	0
AnteOperam	333.2	0
AnteOperam	333	0
AnteOperam	332.8	0
AnteOperam	332.6	0
AnteOperam	332.4	0
AnteOperam	332.2	0
AnteOperam	332	0
AnteOperam	331.8	0
AnteOperam	331.6	0
AnteOperam	331.4	0
AnteOperam	331.2	0
AnteOperam	331	0
AnteOperam	330.8	0
AnteOperam	330.6	0
AnteOperam	330.4	0
AnteOperam	330.2	0
AnteOperam	330	0
AnteOperam	329.799	0
AnteOperam	329.599	0
AnteOperam	329.399	0
AnteOperam	329.199	0
AnteOperam	328.999	0
AnteOperam	328.799	0
AnteOperam	328.599	0
AnteOperam	328.399	0
AnteOperam	328.199	0
AnteOperam	327.999	0
AnteOperam	327.799	0
AnteOperam	327.599	0
AnteOperam	327.399	0
AnteOperam	327.199	0
AnteOperam	326.999	0
AnteOperam	326.799	0
AnteOperam	326.599	0
AnteOperam	326.399	0

Design Assumption: SLE (Rara/Frequente/Quasi Permanente)	Tipo Risultato: Spostamento	Muro: LEFT
Stage	**Z (m)**	**Spostamento orizzontale (mm)**
AnteOperam	326.199	0
AnteOperam	325.999	0
AnteOperam	325.799	0
AnteOperam	325.599	0
AnteOperam	325.399	0
AnteOperam	325.199	0
AnteOperam	324.999	0
AnteOperam	324.799	0
AnteOperam	324.599	0
AnteOperam	324.399	0
AnteOperam	324.199	0
AnteOperam	324	0

6.1.2. Tabella Risultati Paratia SLE (Rara/Frequente/Quasi Permanente) - Left Wall - Stage: AnteOperam

Design Assumption: SLE (Rara/Frequente/Quasi Permanente)	Risultati Paratia	Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
AnteOperam	339	0	0
AnteOperam	338.8	0	0
AnteOperam	338.6	0	0
AnteOperam	338.4	0	0
AnteOperam	338.2	0	0
AnteOperam	338	0	0
AnteOperam	337.8	0	0
AnteOperam	337.6	0	0
AnteOperam	337.4	0	0
AnteOperam	337.2	0	0
AnteOperam	337	0	0
AnteOperam	336.8	0	0
AnteOperam	336.6	0	0
AnteOperam	336.4	0	0
AnteOperam	336.2	0	0
AnteOperam	336	0	0
AnteOperam	335.8	0	0
AnteOperam	335.6	0	0
AnteOperam	335.4	0	0
AnteOperam	335.2	0	0
AnteOperam	335	0	0
AnteOperam	334.8	0	0
AnteOperam	334.6	0	0
AnteOperam	334.4	0	0
AnteOperam	334.2	0	0
AnteOperam	334	0	0
AnteOperam	333.8	0	0
AnteOperam	333.6	0	0
AnteOperam	333.4	0	0
AnteOperam	333.2	0	0
AnteOperam	333	0	0
AnteOperam	332.8	0	0
AnteOperam	332.6	0	0
AnteOperam	332.4	0	0
AnteOperam	332.2	0	0
AnteOperam	332	0	0
AnteOperam	331.8	0	0
AnteOperam	331.6	0	0
AnteOperam	331.4	0	0
AnteOperam	331.2	0	0
AnteOperam	331	0	0
AnteOperam	330.8	0	0
AnteOperam	330.6	0	0
AnteOperam	330.4	0	0
AnteOperam	330.2	0	0
AnteOperam	330	0	0
AnteOperam	329.799	0	0
AnteOperam	329.599	0	0
AnteOperam	329.399	0	0
AnteOperam	329.199	0	0
AnteOperam	328.999	0	0
AnteOperam	328.799	0	0
AnteOperam	328.599	0	0
AnteOperam	328.399	0	0
AnteOperam	328.199	0	0
AnteOperam	327.999	0	0
AnteOperam	327.799	0	0
AnteOperam	327.599	0	0
AnteOperam	327.399	0	0
AnteOperam	327.199	0	0
AnteOperam	326.999	0	0
AnteOperam	326.799	0	0
AnteOperam	326.599	0	0
AnteOperam	326.399	0	0
AnteOperam	326.199	0	0

Design Assumption: SLE (Rara/Frequente/Quasi Permanente)	Risultati Paratia	Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
AnteOperam	325.999	0	0
AnteOperam	325.799	0	0
AnteOperam	325.599	0	0
AnteOperam	325.399	0	0
AnteOperam	325.199	0	0
AnteOperam	324.999	0	0
AnteOperam	324.799	0	0
AnteOperam	324.599	0	0
AnteOperam	324.399	0	0
AnteOperam	324.199	0	0
AnteOperam	324	0	0

6.1.3. Tabella Spostamento SLE (Rara/Frequente/Quasi Permanente) - LEFT Stage: Pre-scavo+Pali

Design Assumption: SLE (Rara/Frequente/Quasi Permanente)	Tipo Risultato: Spostamento	Muro: LEFT
Stage	Z (m)	Spostamento orizzontale (mm)
Pre-scavo+Pali	339	0
Pre-scavo+Pali	338.8	0
Pre-scavo+Pali	338.6	0
Pre-scavo+Pali	338.4	0
Pre-scavo+Pali	338.2	0
Pre-scavo+Pali	338	0
Pre-scavo+Pali	337.8	0
Pre-scavo+Pali	337.6	0
Pre-scavo+Pali	337.4	0
Pre-scavo+Pali	337.2	0
Pre-scavo+Pali	337	0
Pre-scavo+Pali	336.8	0
Pre-scavo+Pali	336.6	0
Pre-scavo+Pali	336.4	0
Pre-scavo+Pali	336.2	0
Pre-scavo+Pali	336	0
Pre-scavo+Pali	335.8	0
Pre-scavo+Pali	335.6	0
Pre-scavo+Pali	335.4	0
Pre-scavo+Pali	335.2	0
Pre-scavo+Pali	335	0
Pre-scavo+Pali	334.8	0
Pre-scavo+Pali	334.6	0
Pre-scavo+Pali	334.4	0
Pre-scavo+Pali	334.2	0
Pre-scavo+Pali	334	0
Pre-scavo+Pali	333.8	0
Pre-scavo+Pali	333.6	0
Pre-scavo+Pali	333.4	0
Pre-scavo+Pali	333.2	0
Pre-scavo+Pali	333	0
Pre-scavo+Pali	332.8	0
Pre-scavo+Pali	332.6	0
Pre-scavo+Pali	332.4	0
Pre-scavo+Pali	332.2	0
Pre-scavo+Pali	332	0
Pre-scavo+Pali	331.8	0
Pre-scavo+Pali	331.6	0
Pre-scavo+Pali	331.4	0
Pre-scavo+Pali	331.2	0
Pre-scavo+Pali	331	0
Pre-scavo+Pali	330.8	0
Pre-scavo+Pali	330.6	0
Pre-scavo+Pali	330.4	0
Pre-scavo+Pali	330.2	0
Pre-scavo+Pali	330	0
Pre-scavo+Pali	329.799	0
Pre-scavo+Pali	329.599	0
Pre-scavo+Pali	329.399	0
Pre-scavo+Pali	329.199	0
Pre-scavo+Pali	328.999	0
Pre-scavo+Pali	328.799	0
Pre-scavo+Pali	328.599	0
Pre-scavo+Pali	328.399	0
Pre-scavo+Pali	328.199	0
Pre-scavo+Pali	327.999	0
Pre-scavo+Pali	327.799	0
Pre-scavo+Pali	327.599	0
Pre-scavo+Pali	327.399	0
Pre-scavo+Pali	327.199	0
Pre-scavo+Pali	326.999	0
Pre-scavo+Pali	326.799	0
Pre-scavo+Pali	326.599	0
Pre-scavo+Pali	326.399	0
Pre-scavo+Pali	326.199	0

Design Assumption: SLE (Rara/Frequente/Quasi Permanente)	Tipo Risultato: Spostamento	Muro: LEFT
Stage	Z (m)	Spostamento orizzontale (mm)
Pre-scavo+Pali	325.999	0
Pre-scavo+Pali	325.799	0
Pre-scavo+Pali	325.599	0
Pre-scavo+Pali	325.399	0
Pre-scavo+Pali	325.199	0
Pre-scavo+Pali	324.999	0
Pre-scavo+Pali	324.799	0
Pre-scavo+Pali	324.599	0
Pre-scavo+Pali	324.399	0
Pre-scavo+Pali	324.199	0
Pre-scavo+Pali	324	0

6.1.4. Tabella Risultati Paratia SLE (Rara/Frequente/Quasi Permanente) - Left Wall - Stage: Pre-scavo+Pali

Design Assumption: SLE (Rara/Frequente/Quasi Permanente)	Risultati Paratia	Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Pre-scavo+Pali	339	0	0
Pre-scavo+Pali	338.8	0	0
Pre-scavo+Pali	338.6	0	0.02
Pre-scavo+Pali	338.4	0.01	0.03
Pre-scavo+Pali	338.2	0.02	0.05
Pre-scavo+Pali	338	0.03	0.07
Pre-scavo+Pali	337.8	0.05	0.08
Pre-scavo+Pali	337.6	0.07	0.1
Pre-scavo+Pali	337.4	0.09	0.11
Pre-scavo+Pali	337.2	0.11	0.09
Pre-scavo+Pali	337	0.12	0.06
Pre-scavo+Pali	336.8	0.13	0.04
Pre-scavo+Pali	336.6	0.13	0.01
Pre-scavo+Pali	336.4	0.13	-0.01
Pre-scavo+Pali	336.2	0.12	-0.03
Pre-scavo+Pali	336	0.11	-0.05
Pre-scavo+Pali	335.8	0.1	-0.07
Pre-scavo+Pali	335.6	0.08	-0.09
Pre-scavo+Pali	335.4	0.06	-0.1
Pre-scavo+Pali	335.2	0.04	-0.12
Pre-scavo+Pali	335	0.01	-0.14
Pre-scavo+Pali	334.8	-0.01	-0.12
Pre-scavo+Pali	334.6	-0.03	-0.1
Pre-scavo+Pali	334.4	-0.05	-0.08
Pre-scavo+Pali	334.2	-0.06	-0.06
Pre-scavo+Pali	334	-0.07	-0.05
Pre-scavo+Pali	333.8	-0.08	-0.04
Pre-scavo+Pali	333.6	-0.08	-0.03
Pre-scavo+Pali	333.4	-0.09	-0.02
Pre-scavo+Pali	333.2	-0.09	-0.01
Pre-scavo+Pali	333	-0.09	0
Pre-scavo+Pali	332.8	-0.09	0
Pre-scavo+Pali	332.6	-0.09	0.01
Pre-scavo+Pali	332.4	-0.08	0.01
Pre-scavo+Pali	332.2	-0.08	0.01
Pre-scavo+Pali	332	-0.08	0.02
Pre-scavo+Pali	331.8	-0.07	0.02
Pre-scavo+Pali	331.6	-0.07	0.02
Pre-scavo+Pali	331.4	-0.06	0.02
Pre-scavo+Pali	331.2	-0.06	0.02
Pre-scavo+Pali	331	-0.05	0.03
Pre-scavo+Pali	330.8	-0.05	0.03
Pre-scavo+Pali	330.6	-0.04	0.03
Pre-scavo+Pali	330.4	-0.04	0.02
Pre-scavo+Pali	330.2	-0.03	0.02
Pre-scavo+Pali	330	-0.03	0.02
Pre-scavo+Pali	329.799	-0.03	0.02
Pre-scavo+Pali	329.599	-0.02	0.02
Pre-scavo+Pali	329.399	-0.02	0.02
Pre-scavo+Pali	329.199	-0.02	0.02
Pre-scavo+Pali	328.999	-0.01	0.01
Pre-scavo+Pali	328.799	-0.01	0.01
Pre-scavo+Pali	328.599	-0.01	0.01
Pre-scavo+Pali	328.399	-0.01	0.01
Pre-scavo+Pali	328.199	0	0.01
Pre-scavo+Pali	327.999	0	0.01
Pre-scavo+Pali	327.799	0	0.01
Pre-scavo+Pali	327.599	0	0.01
Pre-scavo+Pali	327.399	0	0
Pre-scavo+Pali	327.199	0	0
Pre-scavo+Pali	326.999	0	0
Pre-scavo+Pali	326.799	0	0
Pre-scavo+Pali	326.599	0	0
Pre-scavo+Pali	326.399	0	0
Pre-scavo+Pali	326.199	0	0

Design Assumption: SLE (Rara/Frequente/Quasi Permanente)	Risultati Paratia	Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Pre-scavo+Pali	325.999	0	0
Pre-scavo+Pali	325.799	0	0
Pre-scavo+Pali	325.599	0	0
Pre-scavo+Pali	325.399	0	0
Pre-scavo+Pali	325.199	0	0
Pre-scavo+Pali	324.999	0	0
Pre-scavo+Pali	324.799	0	0
Pre-scavo+Pali	324.599	0	0
Pre-scavo+Pali	324.399	0	0
Pre-scavo+Pali	324.199	0	0
Pre-scavo+Pali	324	0	0

6.1.5. Tabella Spostamento SLE (Rara/Frequente/Quasi Permanente) - LEFT Stage: Scavo finale

Design Assumption: SLE (Rara/Frequente/Quasi Permanente)	Tipo Risultato: Spostamento	Muro: LEFT
Stage	Z (m)	Spostamento orizzontale (mm)
Scavo finale	339	6.33
Scavo finale	338.8	6.21
Scavo finale	338.6	6.08
Scavo finale	338.4	5.95
Scavo finale	338.2	5.83
Scavo finale	338	5.7
Scavo finale	337.8	5.57
Scavo finale	337.6	5.45
Scavo finale	337.4	5.32
Scavo finale	337.2	5.19
Scavo finale	337	5.07
Scavo finale	336.8	4.94
Scavo finale	336.6	4.81
Scavo finale	336.4	4.69
Scavo finale	336.2	4.56
Scavo finale	336	4.43
Scavo finale	335.8	4.31
Scavo finale	335.6	4.18
Scavo finale	335.4	4.05
Scavo finale	335.2	3.93
Scavo finale	335	3.8
Scavo finale	334.8	3.68
Scavo finale	334.6	3.55
Scavo finale	334.4	3.43
Scavo finale	334.2	3.3
Scavo finale	334	3.18
Scavo finale	333.8	3.05
Scavo finale	333.6	2.93
Scavo finale	333.4	2.81
Scavo finale	333.2	2.69
Scavo finale	333	2.57
Scavo finale	332.8	2.45
Scavo finale	332.6	2.33
Scavo finale	332.4	2.22
Scavo finale	332.2	2.11
Scavo finale	332	2
Scavo finale	331.8	1.89
Scavo finale	331.6	1.78
Scavo finale	331.4	1.68
Scavo finale	331.2	1.58
Scavo finale	331	1.49
Scavo finale	330.8	1.4
Scavo finale	330.6	1.31
Scavo finale	330.4	1.23
Scavo finale	330.2	1.15
Scavo finale	330	1.07
Scavo finale	329.799	1
Scavo finale	329.599	0.93
Scavo finale	329.399	0.86
Scavo finale	329.199	0.8
Scavo finale	328.999	0.74
Scavo finale	328.799	0.69
Scavo finale	328.599	0.63
Scavo finale	328.399	0.58
Scavo finale	328.199	0.54
Scavo finale	327.999	0.5
Scavo finale	327.799	0.45
Scavo finale	327.599	0.42
Scavo finale	327.399	0.38
Scavo finale	327.199	0.34
Scavo finale	326.999	0.31
Scavo finale	326.799	0.28
Scavo finale	326.599	0.25
Scavo finale	326.399	0.22
Scavo finale	326.199	0.2
Scavo finale	325.999	0.17
Scavo finale	325.799	0.14

Design Assumption: SLE (Rara/Frequente/Quasi Permanente)	Tipo Risultato: Spostamento	Muro: LEFT
Stage	**Z (m)**	**Spostamento orizzontale (mm)**
Scavo finale	325.599	0.12
Scavo finale	325.399	0.09
Scavo finale	325.199	0.07
Scavo finale	324.999	0.05
Scavo finale	324.799	0.02
Scavo finale	324.599	0
Scavo finale	324.399	-0.02
Scavo finale	324.199	-0.05
Scavo finale	324	-0.07

6.1.6. Tabella Risultati Paratia SLE (Rara/Frequente/Quasi Permanente) - Left Wall - Stage: Scavo finale

Design Assumption: SLE (Rara/Frequente/Quasi Permanente)	Risultati Paratia	Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Scavo finale	339	0	0
Scavo finale	338.8	0	0
Scavo finale	338.8	0	0
Scavo finale	338.6	0	0
Scavo finale	338.6	0	0
Scavo finale	338.4	0	0
Scavo finale	338.4	0	0
Scavo finale	338.2	0	0
Scavo finale	338.2	0	0
Scavo finale	338	0	0
Scavo finale	338	0	0
Scavo finale	337.8	0	0
Scavo finale	337.8	0	0
Scavo finale	337.6	0	0
Scavo finale	337.6	0	0
Scavo finale	337.4	0	0
Scavo finale	337.4	0	0
Scavo finale	337.2	-0.01	-0.07
Scavo finale	337	-0.08	-0.32
Scavo finale	336.8	-0.24	-0.8
Scavo finale	336.6	-0.56	-1.64
Scavo finale	336.4	-1.14	-2.86
Scavo finale	336.2	-2.03	-4.46
Scavo finale	336	-3.31	-6.42
Scavo finale	335.8	-5.07	-8.76
Scavo finale	335.6	-7.36	-11.47
Scavo finale	335.4	-10.27	-14.55
Scavo finale	335.2	-13.87	-18
Scavo finale	335	-18.23	-21.82
Scavo finale	334.8	-23.77	-27.66
Scavo finale	334.6	-30.57	-33.99
Scavo finale	334.4	-38.73	-40.81
Scavo finale	334.2	-48.35	-48.11
Scavo finale	334	-59.53	-55.91
Scavo finale	333.8	-72.37	-64.19
Scavo finale	333.6	-86.96	-72.96
Scavo finale	333.4	-103.41	-82.22
Scavo finale	333.2	-121.81	-91.97
Scavo finale	333	-142.25	-102.2
Scavo finale	332.8	-163.36	-105.54
Scavo finale	332.6	-184.68	-106.64
Scavo finale	332.4	-205.79	-105.51
Scavo finale	332.2	-226.36	-102.86
Scavo finale	332	-246.25	-99.45
Scavo finale	331.8	-265.3	-95.27
Scavo finale	331.6	-283.38	-90.33
Scavo finale	331.4	-300.3	-84.63
Scavo finale	331.2	-315.94	-78.16
Scavo finale	331	-330.12	-70.94
Scavo finale	330.8	-341.11	-54.95
Scavo finale	330.6	-348.89	-38.9
Scavo finale	330.4	-353.45	-22.78
Scavo finale	330.2	-354.82	-6.84
Scavo finale	330	-353.27	7.75
Scavo finale	329.799	-349.1	20.83
Scavo finale	329.599	-342.6	32.48
Scavo finale	329.399	-334.05	42.76
Scavo finale	329.199	-323.7	51.76
Scavo finale	328.999	-311.79	59.54
Scavo finale	328.799	-298.56	66.16
Scavo finale	328.599	-284.22	71.7
Scavo finale	328.399	-268.98	76.23
Scavo finale	328.199	-253.01	79.79
Scavo finale	327.999	-236.52	82.45
Scavo finale	327.799	-219.67	84.27

Design Assumption: SLE (Rara/Frequente/Quasi Permanente)	Risultati Paratia	Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Scavo finale	327.599	-202.61	85.28
Scavo finale	327.399	-185.5	85.55
Scavo finale	327.199	-168.47	85.12
Scavo finale	326.999	-151.67	84.02
Scavo finale	326.799	-135.21	82.29
Scavo finale	326.599	-119.21	79.97
Scavo finale	326.399	-103.79	77.08
Scavo finale	326.199	-89.06	73.65
Scavo finale	325.999	-75.12	69.7
Scavo finale	325.799	-62.07	65.25
Scavo finale	325.599	-50.01	60.32
Scavo finale	325.399	-39.02	54.92
Scavo finale	325.199	-29.21	49.05
Scavo finale	324.999	-20.66	42.73
Scavo finale	324.799	-13.47	35.97
Scavo finale	324.599	-7.72	28.76
Scavo finale	324.399	-3.5	21.11
Scavo finale	324.199	-0.89	13.02
Scavo finale	324	0	4.49

6.1.7. Tabella Spostamento SLE (Rara/Frequente/Quasi Permanente) - LEFT Stage: Sisma

Design Assumption: SLE (Rara/Frequente/Quasi Permanente)	Tipo Risultato: Spostamento	Muro: LEFT
Stage	Z (m)	Spostamento orizzontale (mm)
Sisma	339	6.33
Sisma	338.8	6.21
Sisma	338.6	6.08
Sisma	338.4	5.95
Sisma	338.2	5.83
Sisma	338	5.7
Sisma	337.8	5.57
Sisma	337.6	5.45
Sisma	337.4	5.32
Sisma	337.2	5.19
Sisma	337	5.07
Sisma	336.8	4.94
Sisma	336.6	4.81
Sisma	336.4	4.69
Sisma	336.2	4.56
Sisma	336	4.43
Sisma	335.8	4.31
Sisma	335.6	4.18
Sisma	335.4	4.05
Sisma	335.2	3.93
Sisma	335	3.8
Sisma	334.8	3.68
Sisma	334.6	3.55
Sisma	334.4	3.43
Sisma	334.2	3.3
Sisma	334	3.18
Sisma	333.8	3.05
Sisma	333.6	2.93
Sisma	333.4	2.81
Sisma	333.2	2.69
Sisma	333	2.57
Sisma	332.8	2.45
Sisma	332.6	2.33
Sisma	332.4	2.22
Sisma	332.2	2.11
Sisma	332	2
Sisma	331.8	1.89
Sisma	331.6	1.78
Sisma	331.4	1.68
Sisma	331.2	1.58
Sisma	331	1.49
Sisma	330.8	1.4
Sisma	330.6	1.31
Sisma	330.4	1.23
Sisma	330.2	1.15
Sisma	330	1.07
Sisma	329.799	1
Sisma	329.599	0.93
Sisma	329.399	0.86
Sisma	329.199	0.8
Sisma	328.999	0.74
Sisma	328.799	0.69
Sisma	328.599	0.63
Sisma	328.399	0.58
Sisma	328.199	0.54
Sisma	327.999	0.5
Sisma	327.799	0.45
Sisma	327.599	0.42
Sisma	327.399	0.38
Sisma	327.199	0.34
Sisma	326.999	0.31
Sisma	326.799	0.28
Sisma	326.599	0.25
Sisma	326.399	0.22
Sisma	326.199	0.2
Sisma	325.999	0.17
Sisma	325.799	0.14

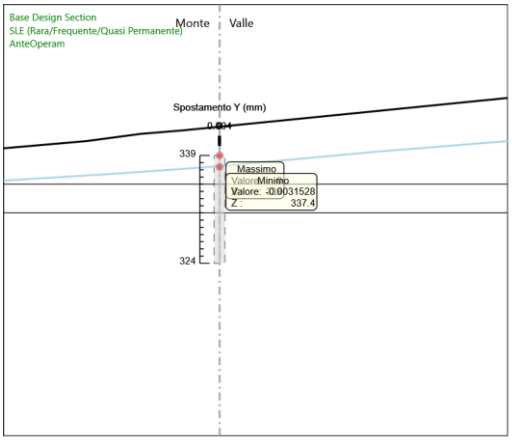
Design Assumption: SLE (Rara/Frequente/Quasi Permanente)	Tipo Risultato: Spostamento	Muro: LEFT
Stage	**Z (m)**	**Spostamento orizzontale (mm)**
Sisma	325.599	0.12
Sisma	325.399	0.09
Sisma	325.199	0.07
Sisma	324.999	0.05
Sisma	324.799	0.02
Sisma	324.599	0
Sisma	324.399	-0.02
Sisma	324.199	-0.05
Sisma	324	-0.07

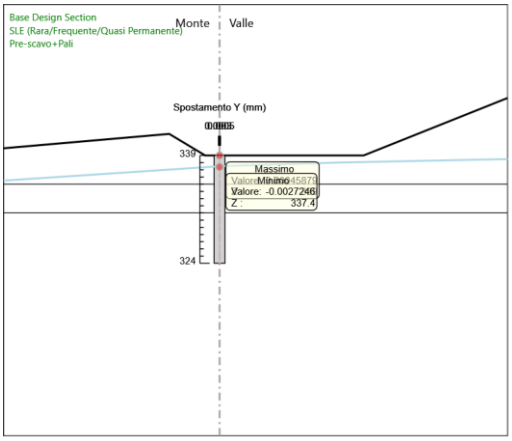
6.1.8. Tabella Risultati Paratia SLE (Rara/Frequente/Quasi Permanente) - Left Wall - Stage: Sisma

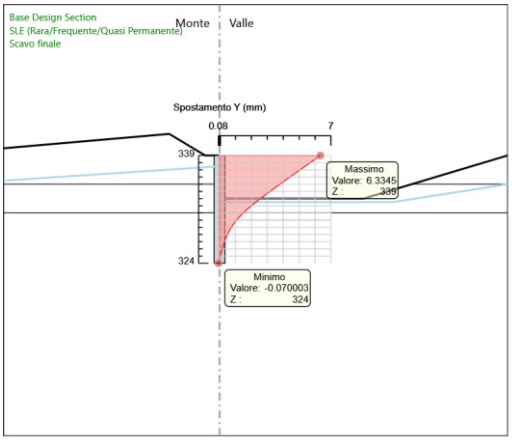
Design Assumption: SLE (Rara/Frequente/Quasi Permanente)	Risultati Paratia	Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Sisma	339	0	0
Sisma	338.8	0	0
Sisma	338.8	0	0
Sisma	338.6	0	0
Sisma	338.6	0	0
Sisma	338.4	0	0
Sisma	338.4	0	0
Sisma	338.2	0	0
Sisma	338.2	0	0
Sisma	338	0	0
Sisma	338	0	0
Sisma	337.8	0	0
Sisma	337.8	0	0
Sisma	337.6	0	0
Sisma	337.6	0	0
Sisma	337.4	0	0
Sisma	337.4	0	0
Sisma	337.2	-0.01	-0.07
Sisma	337	-0.08	-0.32
Sisma	336.8	-0.24	-0.8
Sisma	336.6	-0.56	-1.64
Sisma	336.4	-1.14	-2.86
Sisma	336.2	-2.03	-4.46
Sisma	336	-3.31	-6.42
Sisma	335.8	-5.07	-8.76
Sisma	335.6	-7.36	-11.47
Sisma	335.4	-10.27	-14.55
Sisma	335.2	-13.87	-18
Sisma	335	-18.23	-21.82
Sisma	334.8	-23.77	-27.66
Sisma	334.6	-30.57	-33.99
Sisma	334.4	-38.73	-40.81
Sisma	334.2	-48.35	-48.11
Sisma	334	-59.53	-55.91
Sisma	333.8	-72.37	-64.19
Sisma	333.6	-86.96	-72.96
Sisma	333.4	-103.41	-82.22
Sisma	333.2	-121.81	-91.97
Sisma	333	-142.25	-102.2
Sisma	332.8	-163.36	-105.54
Sisma	332.6	-184.68	-106.64
Sisma	332.4	-205.79	-105.51
Sisma	332.2	-226.36	-102.86
Sisma	332	-246.25	-99.45
Sisma	331.8	-265.3	-95.27
Sisma	331.6	-283.38	-90.33
Sisma	331.4	-300.3	-84.63
Sisma	331.2	-315.94	-78.16
Sisma	331	-330.12	-70.94
Sisma	330.8	-341.11	-54.95
Sisma	330.6	-348.89	-38.9
Sisma	330.4	-353.45	-22.78
Sisma	330.2	-354.82	-6.84
Sisma	330	-353.27	7.75
Sisma	329.799	-349.1	20.83
Sisma	329.599	-342.6	32.48
Sisma	329.399	-334.05	42.76
Sisma	329.199	-323.7	51.76
Sisma	328.999	-311.79	59.54
Sisma	328.799	-298.56	66.16
Sisma	328.599	-284.22	71.7
Sisma	328.399	-268.98	76.23
Sisma	328.199	-253.01	79.79
Sisma	327.999	-236.52	82.45
Sisma	327.799	-219.67	84.27
Sisma	327.599	-202.61	85.28
Sisma	327.399	-185.5	85.55

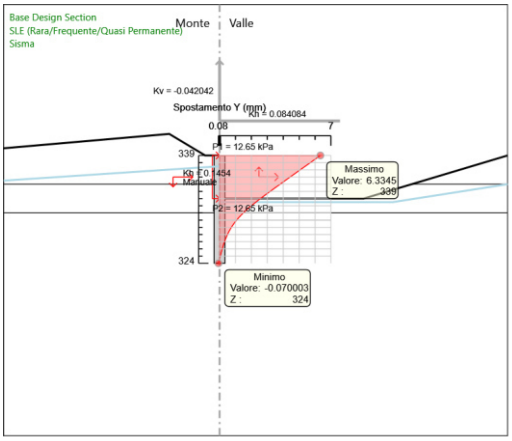
Design Assumption: SLE (Rara/Frequente/Quasi Permanente)	Risultati Paratia	Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Sisma	327.199	-168.47	85.12
Sisma	326.999	-151.67	84.02
Sisma	326.799	-135.21	82.29
Sisma	326.599	-119.21	79.97
Sisma	326.399	-103.79	77.08
Sisma	326.199	-89.06	73.65
Sisma	325.999	-75.12	69.7
Sisma	325.799	-62.07	65.25
Sisma	325.599	-50.01	60.32
Sisma	325.399	-39.02	54.92
Sisma	325.199	-29.21	49.05
Sisma	324.999	-20.66	42.73
Sisma	324.799	-13.47	35.97
Sisma	324.599	-7.72	28.76
Sisma	324.399	-3.5	21.11
Sisma	324.199	-0.89	13.02
Sisma	324	0	4.49

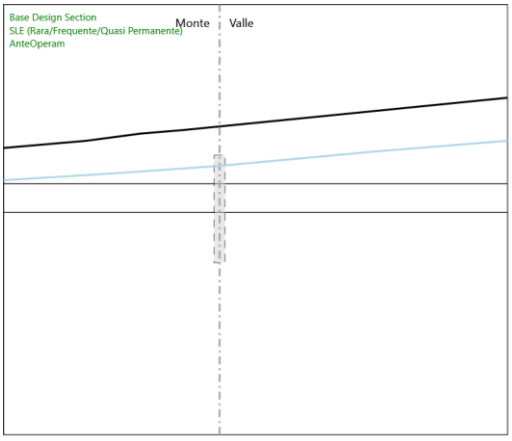
6.1.9. Tabella Grafici dei Risultati

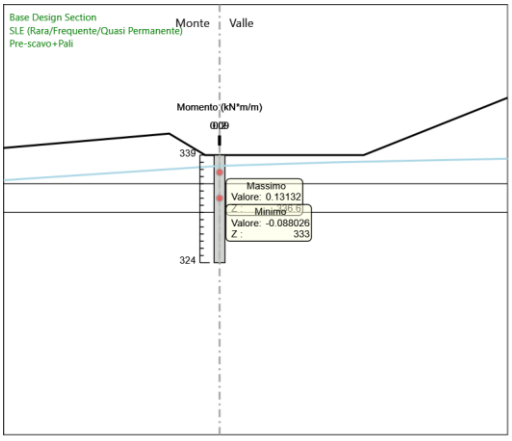


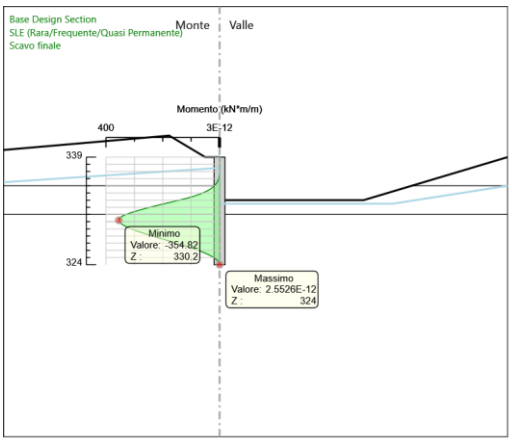


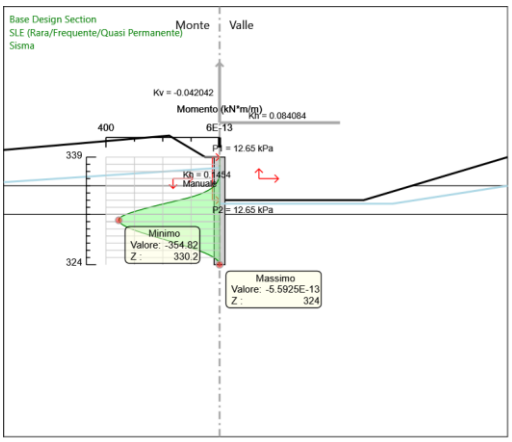


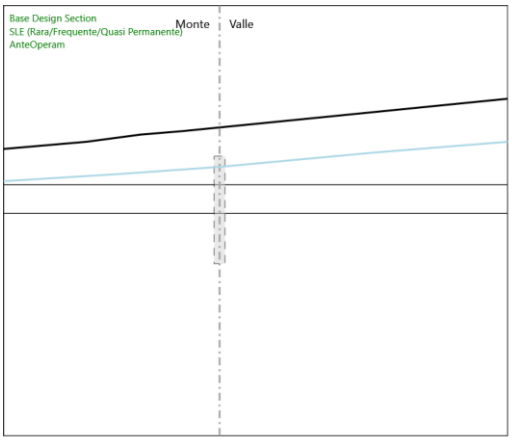


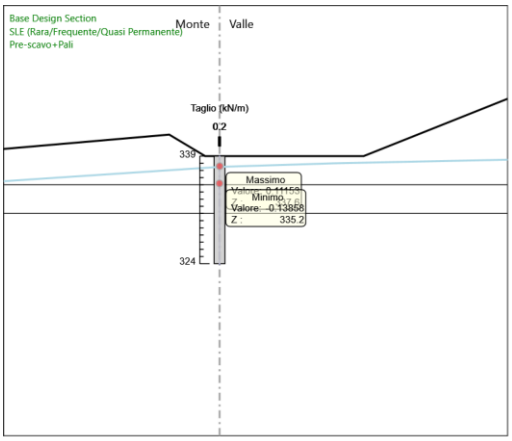


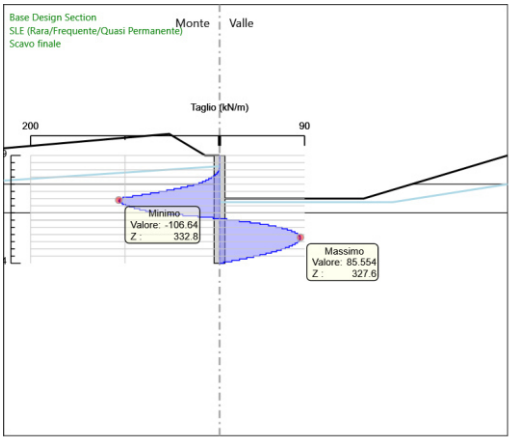


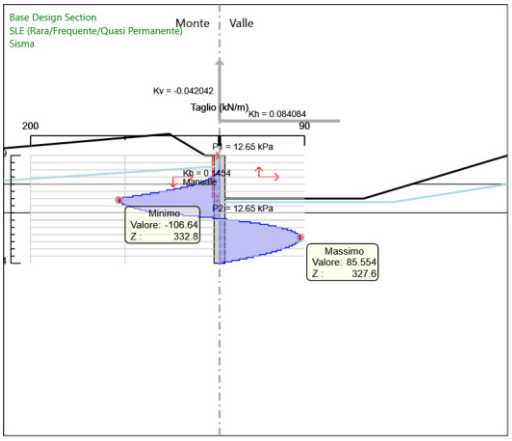

Base Design Section
SLE (Rara/Frequente/Quasi Permanente)
Scavo finale
Monte
Valle
Momento (kN*m/m)
400
3E-12
339
324
Minimo
Valore: -354.82
Z : 330.2
Massimo
Valore: 2.5526E-12
Z : 324


Base Design Section
SLE (Rara/Frequente/Quasi Permanente)
Sisma
Monte
Valle
Kv = -0.042042
Momento (kN*m/m)
Kh = 0.084084
400
6E-13
P1 = 12.65 kPa
339
Kh = 0.1454
Manuale
P2 = 12.65 kPa
324
Minimo
Valore: -354.82
Z : 330.2
Massimo
Valore: -5.5925E-13
Z : 324


Base Design Section
SLE (Rara/Frequente/Quasi Permanente)
AnteOperam
Monte
Valle


Base Design Section
SLE (Rara/Frequente/Quasi Permanente)
Pre-scavo+Pali
Monte
Valle
Taglio (kN/m)
0.2
339
324
Massimo
Minimo
Valore: -0.13858
Z : 335.2


Base Design Section
SLE (Rara/Frequente/Quasi Permanente)
Scavo finale
Monte
Valle
Taglio (kN/m)
200
90
Minimo
Valore: -106.64
Z : 332.8
Massimo
Valore: 85.554
Z : 327.6


Base Design Section
SLE (Rara/Frequente/Quasi Permanente)
Sisma
Monte
Valle
Kv = -0.042042
Taglio (kN/m)
Kh = 0.084084
200
90
P1 = 12.65 kPa
Kh = 0.1454
Manuale
P2 = 12.65 kPa
Minimo
Valore: -106.64
Z : 332.8
Massimo
Valore: 85.554
Z : 327.6

6.2. Risultati A1+M1+R1 (R3 per tiranti)

6.2.1. Tabella Risultati Paratia A1+M1+R1 (R3 per tiranti) - Left Wall - Stage: AnteOperam

Design Assumption: A1+M1+R1 (R3 per tiranti)	Risultati Paratia	Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
AnteOperam	339	0	0
AnteOperam	338.8	0	0
AnteOperam	338.6	0	0
AnteOperam	338.4	0	0
AnteOperam	338.2	0	0
AnteOperam	338	0	0
AnteOperam	337.8	0	0
AnteOperam	337.6	0	0
AnteOperam	337.4	0	0
AnteOperam	337.2	0	0
AnteOperam	337	0	0
AnteOperam	336.8	0	0
AnteOperam	336.6	0	0
AnteOperam	336.4	0	0
AnteOperam	336.2	0	0
AnteOperam	336	0	0
AnteOperam	335.8	0	0
AnteOperam	335.6	0	0
AnteOperam	335.4	0	0
AnteOperam	335.2	0	0
AnteOperam	335	0	0
AnteOperam	334.8	0	0
AnteOperam	334.6	0	0
AnteOperam	334.4	0	0
AnteOperam	334.2	0	0
AnteOperam	334	0	0
AnteOperam	333.8	0	0
AnteOperam	333.6	0	0
AnteOperam	333.4	0	0
AnteOperam	333.2	0	0
AnteOperam	333	0	0
AnteOperam	332.8	0	0
AnteOperam	332.6	0	0
AnteOperam	332.4	0	0
AnteOperam	332.2	0	0
AnteOperam	332	0	0
AnteOperam	331.8	0	0
AnteOperam	331.6	0	0
AnteOperam	331.4	0	0
AnteOperam	331.2	0	0
AnteOperam	331	0	0
AnteOperam	330.8	0	0
AnteOperam	330.6	0	0
AnteOperam	330.4	0	0
AnteOperam	330.2	0	0
AnteOperam	330	0	0
AnteOperam	329.799	0	0
AnteOperam	329.599	0	0
AnteOperam	329.399	0	0
AnteOperam	329.199	0	0
AnteOperam	328.999	0	0
AnteOperam	328.799	0	0
AnteOperam	328.599	0	0
AnteOperam	328.399	0	0
AnteOperam	328.199	0	0
AnteOperam	327.999	0	0
AnteOperam	327.799	0	0
AnteOperam	327.599	0	0
AnteOperam	327.399	0	0
AnteOperam	327.199	0	0
AnteOperam	326.999	0	0
AnteOperam	326.799	0	0
AnteOperam	326.599	0	0
AnteOperam	326.399	0	0

Design Assumption: A1+M1+R1 (R3 per tiranti)	Risultati Paratia	Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
AnteOperam	326.199	0	0
AnteOperam	325.999	0	0
AnteOperam	325.799	0	0
AnteOperam	325.599	0	0
AnteOperam	325.399	0	0
AnteOperam	325.199	0	0
AnteOperam	324.999	0	0
AnteOperam	324.799	0	0
AnteOperam	324.599	0	0
AnteOperam	324.399	0	0
AnteOperam	324.199	0	0
AnteOperam	324	0	0

6.2.2. Tabella Risultati Paratia A1+M1+R1 (R3 per tiranti) - Left Wall - Stage: Pre-scavo+Pali

Design Assumption: A1+M1+R1 (R3 per tiranti)	Risultati Paratia	Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Pre-scavo+Pali	339	0	0
Pre-scavo+Pali	338.8	0	0
Pre-scavo+Pali	338.6	0.01	0.02
Pre-scavo+Pali	338.4	0.01	0.05
Pre-scavo+Pali	338.2	0.03	0.07
Pre-scavo+Pali	338	0.04	0.09
Pre-scavo+Pali	337.8	0.07	0.11
Pre-scavo+Pali	337.6	0.09	0.13
Pre-scavo+Pali	337.4	0.12	0.14
Pre-scavo+Pali	337.2	0.14	0.11
Pre-scavo+Pali	337	0.16	0.08
Pre-scavo+Pali	336.8	0.17	0.05
Pre-scavo+Pali	336.6	0.17	0.02
Pre-scavo+Pali	336.4	0.17	-0.01
Pre-scavo+Pali	336.2	0.16	-0.04
Pre-scavo+Pali	336	0.15	-0.06
Pre-scavo+Pali	335.8	0.13	-0.09
Pre-scavo+Pali	335.6	0.11	-0.11
Pre-scavo+Pali	335.4	0.08	-0.14
Pre-scavo+Pali	335.2	0.05	-0.16
Pre-scavo+Pali	335	0.01	-0.18
Pre-scavo+Pali	334.8	-0.02	-0.15
Pre-scavo+Pali	334.6	-0.04	-0.13
Pre-scavo+Pali	334.4	-0.06	-0.1
Pre-scavo+Pali	334.2	-0.08	-0.08
Pre-scavo+Pali	334	-0.09	-0.06
Pre-scavo+Pali	333.8	-0.1	-0.05
Pre-scavo+Pali	333.6	-0.11	-0.03
Pre-scavo+Pali	333.4	-0.11	-0.02
Pre-scavo+Pali	333.2	-0.11	-0.01
Pre-scavo+Pali	333	-0.11	0
Pre-scavo+Pali	332.8	-0.11	0
Pre-scavo+Pali	332.6	-0.11	0.01
Pre-scavo+Pali	332.4	-0.11	0.02
Pre-scavo+Pali	332.2	-0.1	0.02
Pre-scavo+Pali	332	-0.1	0.02
Pre-scavo+Pali	331.8	-0.1	0.02
Pre-scavo+Pali	331.6	-0.09	0.03
Pre-scavo+Pali	331.4	-0.08	0.03
Pre-scavo+Pali	331.2	-0.08	0.03
Pre-scavo+Pali	331	-0.07	0.04
Pre-scavo+Pali	330.8	-0.06	0.03
Pre-scavo+Pali	330.6	-0.06	0.03
Pre-scavo+Pali	330.4	-0.05	0.03
Pre-scavo+Pali	330.2	-0.04	0.03
Pre-scavo+Pali	330	-0.04	0.03
Pre-scavo+Pali	329.799	-0.03	0.03
Pre-scavo+Pali	329.599	-0.03	0.02
Pre-scavo+Pali	329.399	-0.02	0.02
Pre-scavo+Pali	329.199	-0.02	0.02
Pre-scavo+Pali	328.999	-0.02	0.02
Pre-scavo+Pali	328.799	-0.01	0.02
Pre-scavo+Pali	328.599	-0.01	0.01
Pre-scavo+Pali	328.399	-0.01	0.01
Pre-scavo+Pali	328.199	-0.01	0.01
Pre-scavo+Pali	327.999	0	0.01
Pre-scavo+Pali	327.799	0	0.01
Pre-scavo+Pali	327.599	0	0.01
Pre-scavo+Pali	327.399	0	0.01
Pre-scavo+Pali	327.199	0	0
Pre-scavo+Pali	326.999	0	0
Pre-scavo+Pali	326.799	0	0
Pre-scavo+Pali	326.599	0	0
Pre-scavo+Pali	326.399	0	0
Pre-scavo+Pali	326.199	0	0
Pre-scavo+Pali	325.999	0	0
Pre-scavo+Pali	325.799	0	0

Design Assumption: A1+M1+R1 (R3 per tiranti)	Risultati Paratia	Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Pre-scavo+Pali	325.599	0	0
Pre-scavo+Pali	325.399	0	0
Pre-scavo+Pali	325.199	0	0
Pre-scavo+Pali	324.999	0	0
Pre-scavo+Pali	324.799	0	0
Pre-scavo+Pali	324.599	0	0
Pre-scavo+Pali	324.399	0	0
Pre-scavo+Pali	324.199	0	0
Pre-scavo+Pali	324	0	0

6.2.3. Tabella Risultati Paratia A1+M1+R1 (R3 per tiranti) - Left Wall - Stage: Scavo finale

Design Assumption: A1+M1+R1 (R3 per tiranti)	Risultati Paratia	Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Scavo finale	339	0	0
Scavo finale	338.8	0	0
Scavo finale	338.8	0	0
Scavo finale	338.6	0	0
Scavo finale	338.6	0	0
Scavo finale	338.4	0	0
Scavo finale	338.4	0	0
Scavo finale	338.2	0	0
Scavo finale	338.2	0	0
Scavo finale	338	0	0
Scavo finale	338	0	0
Scavo finale	337.8	0	0
Scavo finale	337.8	0	0
Scavo finale	337.6	0	0
Scavo finale	337.6	0	0
Scavo finale	337.4	0	0
Scavo finale	337.4	0	0
Scavo finale	337.2	-0.02	-0.09
Scavo finale	337	-0.1	-0.41
Scavo finale	336.8	-0.31	-1.03
Scavo finale	336.6	-0.73	-2.14
Scavo finale	336.4	-1.48	-3.72
Scavo finale	336.2	-2.64	-5.79
Scavo finale	336	-4.31	-8.35
Scavo finale	335.8	-6.59	-11.39
Scavo finale	335.6	-9.57	-14.91
Scavo finale	335.4	-13.35	-18.91
Scavo finale	335.2	-18.03	-23.4
Scavo finale	335	-23.7	-28.37
Scavo finale	334.8	-30.9	-35.96
Scavo finale	334.6	-39.74	-44.19
Scavo finale	334.4	-50.35	-53.05
Scavo finale	334.2	-62.86	-62.55
Scavo finale	334	-77.39	-72.68
Scavo finale	333.8	-94.08	-83.45
Scavo finale	333.6	-113.05	-94.85
Scavo finale	333.4	-134.43	-106.88
Scavo finale	333.2	-158.35	-119.56
Scavo finale	333	-184.92	-132.86
Scavo finale	332.8	-212.36	-137.2
Scavo finale	332.6	-240.09	-138.64
Scavo finale	332.4	-267.52	-137.16
Scavo finale	332.2	-294.27	-133.72
Scavo finale	332	-320.12	-129.28
Scavo finale	331.8	-344.89	-123.85
Scavo finale	331.6	-368.39	-117.43
Scavo finale	331.4	-390.39	-110.02
Scavo finale	331.2	-410.72	-101.61
Scavo finale	331	-429.16	-92.22
Scavo finale	330.8	-443.45	-71.43
Scavo finale	330.6	-453.56	-50.57
Scavo finale	330.4	-459.48	-29.61
Scavo finale	330.2	-461.26	-8.89
Scavo finale	330	-459.25	10.07
Scavo finale	329.799	-453.83	27.08
Scavo finale	329.599	-445.39	42.22
Scavo finale	329.399	-434.27	55.59
Scavo finale	329.199	-420.81	67.29
Scavo finale	328.999	-405.33	77.4
Scavo finale	328.799	-388.13	86.01
Scavo finale	328.599	-369.49	93.22
Scavo finale	328.399	-349.67	99.09
Scavo finale	328.199	-328.91	103.73
Scavo finale	327.999	-307.47	107.19
Scavo finale	327.799	-285.57	109.54
Scavo finale	327.599	-263.39	110.87
Scavo finale	327.399	-241.15	111.22

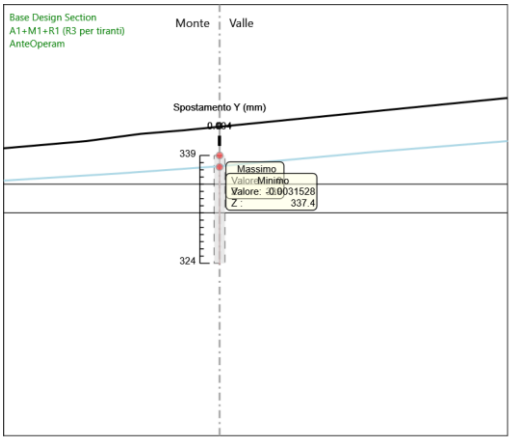
Design Assumption: A1+M1+R1 (R3 per tiranti)	Risultati Paratia	Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Scavo finale	327.199	-219.02	110.66
Scavo finale	326.999	-197.17	109.23
Scavo finale	326.799	-175.78	106.98
Scavo finale	326.599	-154.97	103.96
Scavo finale	326.399	-134.93	100.21
Scavo finale	326.199	-115.78	95.75
Scavo finale	325.999	-97.66	90.61
Scavo finale	325.799	-80.69	84.83
Scavo finale	325.599	-65.01	78.42
Scavo finale	325.399	-50.73	71.39
Scavo finale	325.199	-37.98	63.77
Scavo finale	324.999	-26.86	55.55
Scavo finale	324.799	-17.51	46.76
Scavo finale	324.599	-10.03	37.39
Scavo finale	324.399	-4.55	27.44
Scavo finale	324.199	-1.16	16.92
Scavo finale	324	0	5.83

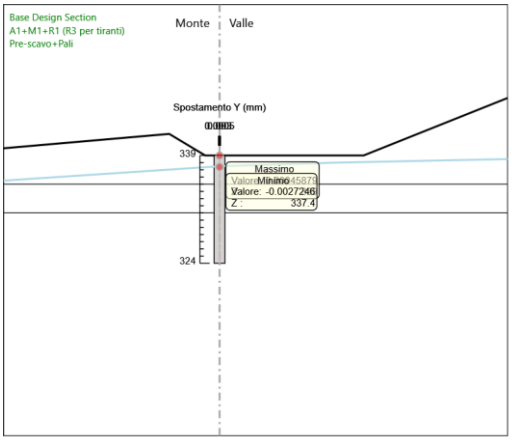
6.2.4. Tabella Risultati Paratia A1+M1+R1 (R3 per tiranti) - Left Wall - Stage: Sisma

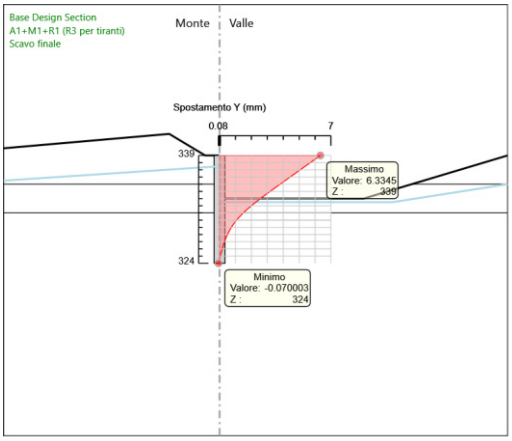
Design Assumption: A1+M1+R1 (R3 per tiranti)	Risultati Paratia	Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Sisma	339	0	0
Sisma	338.8	0	0
Sisma	338.8	0	0
Sisma	338.6	0	0
Sisma	338.6	0	0
Sisma	338.4	0	0
Sisma	338.4	0	0
Sisma	338.2	0	0
Sisma	338.2	0	0
Sisma	338	0	0
Sisma	338	0	0
Sisma	337.8	0	0
Sisma	337.8	0	0
Sisma	337.6	0	0
Sisma	337.6	0	0
Sisma	337.4	0	0
Sisma	337.4	0	0
Sisma	337.2	-0.02	-0.09
Sisma	337	-0.1	-0.41
Sisma	336.8	-0.31	-1.03
Sisma	336.6	-0.73	-2.14
Sisma	336.4	-1.48	-3.72
Sisma	336.2	-2.64	-5.79
Sisma	336	-4.31	-8.35
Sisma	335.8	-6.59	-11.39
Sisma	335.6	-9.57	-14.91
Sisma	335.4	-13.35	-18.91
Sisma	335.2	-18.03	-23.4
Sisma	335	-23.7	-28.37
Sisma	334.8	-30.9	-35.96
Sisma	334.6	-39.74	-44.19
Sisma	334.4	-50.35	-53.05
Sisma	334.2	-62.86	-62.55
Sisma	334	-77.39	-72.68
Sisma	333.8	-94.08	-83.45
Sisma	333.6	-113.05	-94.85
Sisma	333.4	-134.43	-106.88
Sisma	333.2	-158.35	-119.56
Sisma	333	-184.92	-132.86
Sisma	332.8	-212.36	-137.2
Sisma	332.6	-240.09	-138.64
Sisma	332.4	-267.52	-137.16
Sisma	332.2	-294.27	-133.72
Sisma	332	-320.12	-129.28
Sisma	331.8	-344.89	-123.85
Sisma	331.6	-368.39	-117.43
Sisma	331.4	-390.39	-110.02
Sisma	331.2	-410.72	-101.61
Sisma	331	-429.16	-92.22
Sisma	330.8	-443.45	-71.43
Sisma	330.6	-453.56	-50.57
Sisma	330.4	-459.48	-29.61
Sisma	330.2	-461.26	-8.89
Sisma	330	-459.25	10.07
Sisma	329.799	-453.83	27.08
Sisma	329.599	-445.39	42.22
Sisma	329.399	-434.27	55.59
Sisma	329.199	-420.81	67.29
Sisma	328.999	-405.33	77.4
Sisma	328.799	-388.13	86.01
Sisma	328.599	-369.49	93.22
Sisma	328.399	-349.67	99.09
Sisma	328.199	-328.91	103.73
Sisma	327.999	-307.47	107.19
Sisma	327.799	-285.57	109.54
Sisma	327.599	-263.39	110.87
Sisma	327.399	-241.15	111.22

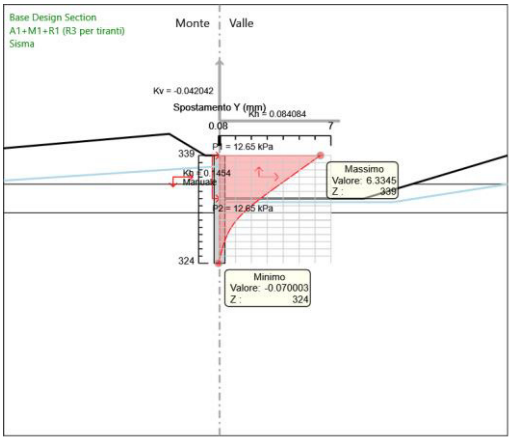
Design Assumption: A1+M1+R1 (R3 per tiranti)	Risultati Paratia	Muro: LEFT	
Stage	**Z (m)**	**Momento (kN*m/m)**	**Taglio (kN/m)**
Sisma	327.199	-219.02	110.66
Sisma	326.999	-197.17	109.23
Sisma	326.799	-175.78	106.98
Sisma	326.599	-154.97	103.96
Sisma	326.399	-134.93	100.21
Sisma	326.199	-115.78	95.75
Sisma	325.999	-97.66	90.61
Sisma	325.799	-80.69	84.83
Sisma	325.599	-65.01	78.42
Sisma	325.399	-50.73	71.39
Sisma	325.199	-37.98	63.77
Sisma	324.999	-26.86	55.55
Sisma	324.799	-17.51	46.76
Sisma	324.599	-10.03	37.39
Sisma	324.399	-4.55	27.44
Sisma	324.199	-1.16	16.92
Sisma	324	0	5.83

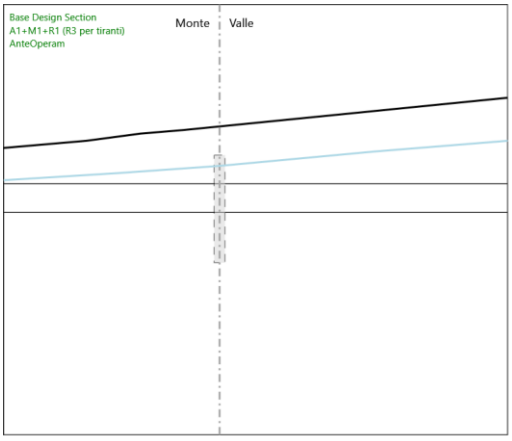
6.2.5. Tabella Grafici dei Risultati

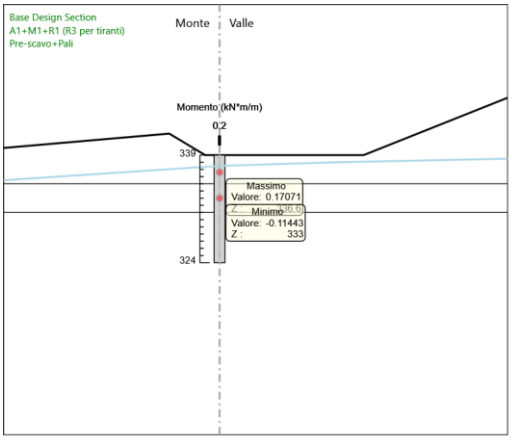


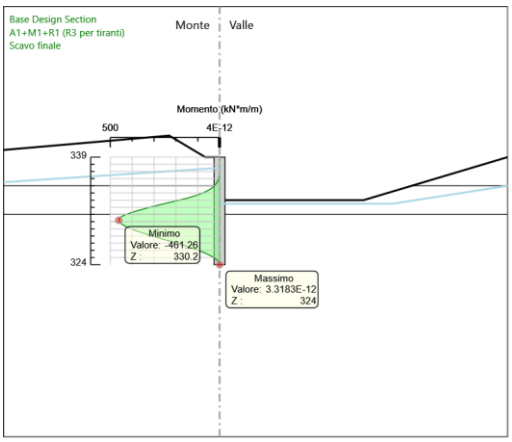


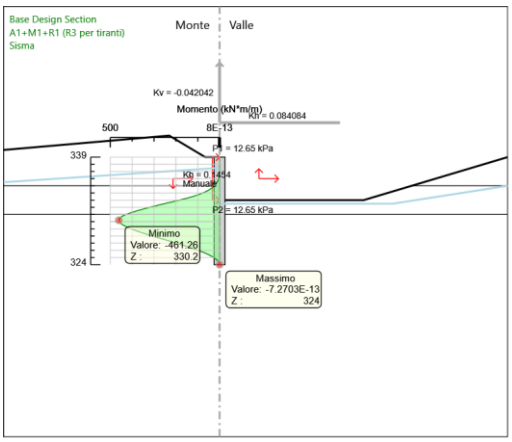


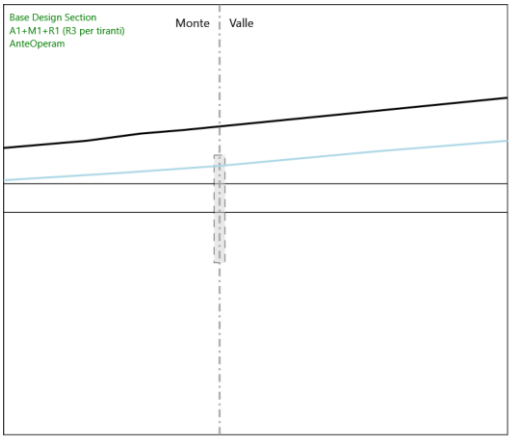


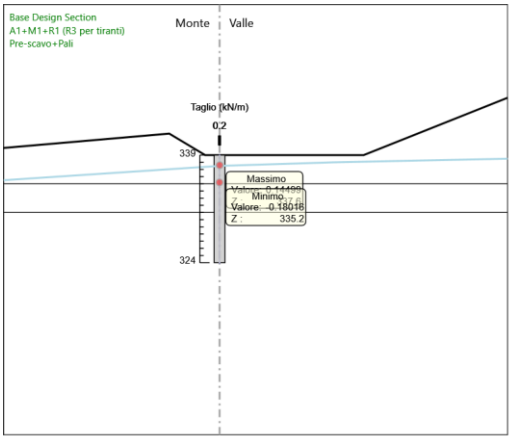


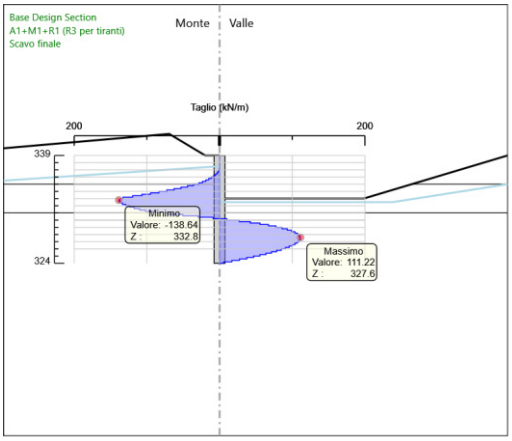


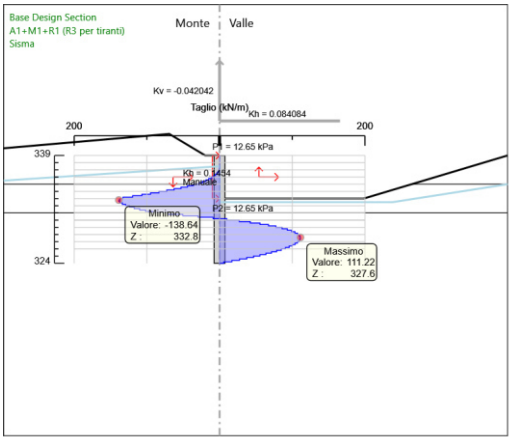

Base Design Section
A1+M1+R1 (R3 per tiranti)
Scavo finale
Monte
Valle
Momento (kN*m/m)
500
4E-12
339
324
Minimo
Valore: -461.26
Z : 330.2
Massimo
Valore: 3.3183E-12
Z : 324


Base Design Section
A1+M1+R1 (R3 per tiranti)
Sisma
Monte
Valle
Kv = -0.042042
Momento (kN*m/m)
Kh = 0.084084
500
8E-13
339
P1 = 12.65 kPa
Kb = 0.1454
Manuale
P2 = 12.65 kPa
324
Minimo
Valore: -461.26
Z : 330.2
Massimo
Valore: -7.2703E-13
Z : 324


Base Design Section
A1+M1+R1 (R3 per tiranti)
AnteOperam
Monte
Valle


Base Design Section
A1+M1+R1 (R3 per tiranti)
Pre-scavo+Pali
Monte
Valle
Taglio (kN/m)
0.2
339
324
Massimo
Minimo
Valore: -0.18016
Z : 335.2


Base Design Section
A1+M1+R1 (R3 per tiranti)
Scavo finale
Monte
Valle
Taglio (kN/m)
200
200
339
324
Minimo
Valore: -138.64
Z : 332.8
Massimo
Valore: 111.22
Z : 327.6


Base Design Section
A1+M1+R1 (R3 per tiranti)
Sisma
Monte
Valle
Kv = -0.042042
Taglio (kN/m)
Kh = 0.084084
200
200
339
P1 = 12.65 kPa
Kb = 0.1454
Manuale
P2 = 12.65 kPa
324
Minimo
Valore: -138.64
Z : 332.8
Massimo
Valore: 111.22
Z : 327.6

6.3. Risultati A2+M2+R1

6.3.1. Tabella Risultati Paratia A2+M2+R1 - Left Wall - Stage: AnteOperam

Design Assumption: A2+M2+R1	Risultati Paratia	Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
AnteOperam	339	0	0
AnteOperam	338.8	0	0
AnteOperam	338.6	0	0
AnteOperam	338.4	0	0
AnteOperam	338.2	0	0
AnteOperam	338	0	0
AnteOperam	337.8	0	0
AnteOperam	337.6	0	0
AnteOperam	337.4	0	0
AnteOperam	337.2	0	0
AnteOperam	337	0	0
AnteOperam	336.8	0	0
AnteOperam	336.6	0	0
AnteOperam	336.4	0	0
AnteOperam	336.2	0	0
AnteOperam	336	0	0
AnteOperam	335.8	0	0
AnteOperam	335.6	0	0
AnteOperam	335.4	0	0
AnteOperam	335.2	0	0
AnteOperam	335	0	0
AnteOperam	334.8	0	0
AnteOperam	334.6	0	0
AnteOperam	334.4	0	0
AnteOperam	334.2	0	0
AnteOperam	334	0	0
AnteOperam	333.8	0	0
AnteOperam	333.6	0	0
AnteOperam	333.4	0	0
AnteOperam	333.2	0	0
AnteOperam	333	0	0
AnteOperam	332.8	0	0
AnteOperam	332.6	0	0
AnteOperam	332.4	0	0
AnteOperam	332.2	0	0
AnteOperam	332	0	0
AnteOperam	331.8	0	0
AnteOperam	331.6	0	0
AnteOperam	331.4	0	0
AnteOperam	331.2	0	0
AnteOperam	331	0	0
AnteOperam	330.8	0	0
AnteOperam	330.6	0	0
AnteOperam	330.4	0	0
AnteOperam	330.2	0	0
AnteOperam	330	0	0
AnteOperam	329.799	0	0
AnteOperam	329.599	0	0
AnteOperam	329.399	0	0
AnteOperam	329.199	0	0
AnteOperam	328.999	0	0
AnteOperam	328.799	0	0
AnteOperam	328.599	0	0
AnteOperam	328.399	0	0
AnteOperam	328.199	0	0
AnteOperam	327.999	0	0
AnteOperam	327.799	0	0
AnteOperam	327.599	0	0
AnteOperam	327.399	0	0
AnteOperam	327.199	0	0
AnteOperam	326.999	0	0
AnteOperam	326.799	0	0
AnteOperam	326.599	0	0
AnteOperam	326.399	0	0

Design Assumption: A2+M2+R1	Risultati Paratia	Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
AnteOperam	326.199	0	0
AnteOperam	325.999	0	0
AnteOperam	325.799	0	0
AnteOperam	325.599	0	0
AnteOperam	325.399	0	0
AnteOperam	325.199	0	0
AnteOperam	324.999	0	0
AnteOperam	324.799	0	0
AnteOperam	324.599	0	0
AnteOperam	324.399	0	0
AnteOperam	324.199	0	0
AnteOperam	324	0	0

6.3.2. Tabella Risultati Paratia A2+M2+R1 - Left Wall - Stage: Pre-scavo+Pali

Design Assumption: A2+M2+R1	Risultati Paratia	Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Pre-scavo+Pali	339	0	0
Pre-scavo+Pali	338.8	0	0
Pre-scavo+Pali	338.6	0	0.02
Pre-scavo+Pali	338.4	0.01	0.04
Pre-scavo+Pali	338.2	0.02	0.05
Pre-scavo+Pali	338	0.03	0.07
Pre-scavo+Pali	337.8	0.05	0.08
Pre-scavo+Pali	337.6	0.07	0.1
Pre-scavo+Pali	337.4	0.09	0.11
Pre-scavo+Pali	337.2	0.11	0.09
Pre-scavo+Pali	337	0.12	0.06
Pre-scavo+Pali	336.8	0.13	0.04
Pre-scavo+Pali	336.6	0.13	0.01
Pre-scavo+Pali	336.4	0.13	-0.01
Pre-scavo+Pali	336.2	0.12	-0.03
Pre-scavo+Pali	336	0.11	-0.05
Pre-scavo+Pali	335.8	0.1	-0.07
Pre-scavo+Pali	335.6	0.08	-0.09
Pre-scavo+Pali	335.4	0.06	-0.11
Pre-scavo+Pali	335.2	0.04	-0.12
Pre-scavo+Pali	335	0.01	-0.14
Pre-scavo+Pali	334.8	-0.01	-0.12
Pre-scavo+Pali	334.6	-0.03	-0.1
Pre-scavo+Pali	334.4	-0.05	-0.08
Pre-scavo+Pali	334.2	-0.06	-0.06
Pre-scavo+Pali	334	-0.07	-0.05
Pre-scavo+Pali	333.8	-0.08	-0.04
Pre-scavo+Pali	333.6	-0.08	-0.03
Pre-scavo+Pali	333.4	-0.09	-0.02
Pre-scavo+Pali	333.2	-0.09	-0.01
Pre-scavo+Pali	333	-0.09	0
Pre-scavo+Pali	332.8	-0.09	0
Pre-scavo+Pali	332.6	-0.09	0.01
Pre-scavo+Pali	332.4	-0.08	0.01
Pre-scavo+Pali	332.2	-0.08	0.01
Pre-scavo+Pali	332	-0.08	0.02
Pre-scavo+Pali	331.8	-0.07	0.02
Pre-scavo+Pali	331.6	-0.07	0.02
Pre-scavo+Pali	331.4	-0.07	0.02
Pre-scavo+Pali	331.2	-0.06	0.03
Pre-scavo+Pali	331	-0.05	0.03
Pre-scavo+Pali	330.8	-0.05	0.03
Pre-scavo+Pali	330.6	-0.04	0.03
Pre-scavo+Pali	330.4	-0.04	0.02
Pre-scavo+Pali	330.2	-0.03	0.02
Pre-scavo+Pali	330	-0.03	0.02
Pre-scavo+Pali	329.799	-0.03	0.02
Pre-scavo+Pali	329.599	-0.02	0.02
Pre-scavo+Pali	329.399	-0.02	0.02
Pre-scavo+Pali	329.199	-0.02	0.02
Pre-scavo+Pali	328.999	-0.01	0.01
Pre-scavo+Pali	328.799	-0.01	0.01
Pre-scavo+Pali	328.599	-0.01	0.01
Pre-scavo+Pali	328.399	-0.01	0.01
Pre-scavo+Pali	328.199	0	0.01
Pre-scavo+Pali	327.999	0	0.01
Pre-scavo+Pali	327.799	0	0.01
Pre-scavo+Pali	327.599	0	0.01
Pre-scavo+Pali	327.399	0	0
Pre-scavo+Pali	327.199	0	0
Pre-scavo+Pali	326.999	0	0
Pre-scavo+Pali	326.799	0	0
Pre-scavo+Pali	326.599	0	0
Pre-scavo+Pali	326.399	0	0
Pre-scavo+Pali	326.199	0	0
Pre-scavo+Pali	325.999	0	0
Pre-scavo+Pali	325.799	0	0

Design Assumption: A2+M2+R1	Risultati Paratia	Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Pre-scavo+Pali	325.599	0	0
Pre-scavo+Pali	325.399	0	0
Pre-scavo+Pali	325.199	0	0
Pre-scavo+Pali	324.999	0	0
Pre-scavo+Pali	324.799	0	0
Pre-scavo+Pali	324.599	0	0
Pre-scavo+Pali	324.399	0	0
Pre-scavo+Pali	324.199	0	0
Pre-scavo+Pali	324	0	0

6.3.3. Tabella Risultati Paratia A2+M2+R1 - Left Wall - Stage: Scavo finale

Design Assumption: A2+M2+R1	Risultati Paratia	Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Scavo finale	339	0	0
Scavo finale	338.8	0	0
Scavo finale	338.8	0	0
Scavo finale	338.6	0	0
Scavo finale	338.6	0	0
Scavo finale	338.4	0	0
Scavo finale	338.4	0	0
Scavo finale	338.2	0	0
Scavo finale	338.2	0	0
Scavo finale	338	0	0
Scavo finale	338	0	0
Scavo finale	337.8	0	0
Scavo finale	337.8	0	0
Scavo finale	337.6	0	0
Scavo finale	337.6	0	0
Scavo finale	337.4	-0.02	-0.1
Scavo finale	337.2	-0.13	-0.55
Scavo finale	337	-0.41	-1.41
Scavo finale	336.8	-0.95	-2.68
Scavo finale	336.6	-1.82	-4.37
Scavo finale	336.4	-3.12	-6.48
Scavo finale	336.2	-4.92	-9.01
Scavo finale	336	-7.31	-11.95
Scavo finale	335.8	-10.37	-15.3
Scavo finale	335.6	-14.19	-19.08
Scavo finale	335.4	-18.84	-23.27
Scavo finale	335.2	-24.41	-27.87
Scavo finale	335	-30.99	-32.89
Scavo finale	334.8	-39.12	-40.6
Scavo finale	334.6	-48.89	-48.87
Scavo finale	334.4	-60.43	-57.71
Scavo finale	334.2	-73.85	-67.11
Scavo finale	334	-89.27	-77.07
Scavo finale	333.8	-106.79	-87.59
Scavo finale	333.6	-126.52	-98.68
Scavo finale	333.4	-148.59	-110.33
Scavo finale	333.2	-173.11	-122.55
Scavo finale	333	-200.17	-135.32
Scavo finale	332.8	-228.87	-143.45
Scavo finale	332.6	-258.87	-150.02
Scavo finale	332.4	-289.88	-155.04
Scavo finale	332.2	-321.67	-158.99
Scavo finale	332	-354.15	-162.39
Scavo finale	331.8	-387.2	-165.25
Scavo finale	331.6	-420.73	-167.56
Scavo finale	331.4	-454.6	-169.32
Scavo finale	331.2	-488.7	-170.54
Scavo finale	331	-522.95	-171.21
Scavo finale	330.8	-552.29	-146.7
Scavo finale	330.6	-576.89	-123.04
Scavo finale	330.4	-596.94	-100.23
Scavo finale	330.2	-612.59	-78.24
Scavo finale	330	-624	-57.06
Scavo finale	329.799	-631.34	-36.67
Scavo finale	329.599	-634.75	-17.06
Scavo finale	329.399	-634.39	1.81
Scavo finale	329.199	-630.4	19.94
Scavo finale	328.999	-622.93	37.36
Scavo finale	328.799	-612.11	54.1
Scavo finale	328.599	-598.08	70.16
Scavo finale	328.399	-580.96	85.58
Scavo finale	328.199	-560.88	100.37
Scavo finale	327.999	-537.97	114.55
Scavo finale	327.799	-512.34	128.14
Scavo finale	327.599	-484.1	141.16
Scavo finale	327.399	-453.38	153.63
Scavo finale	327.199	-420.27	165.56

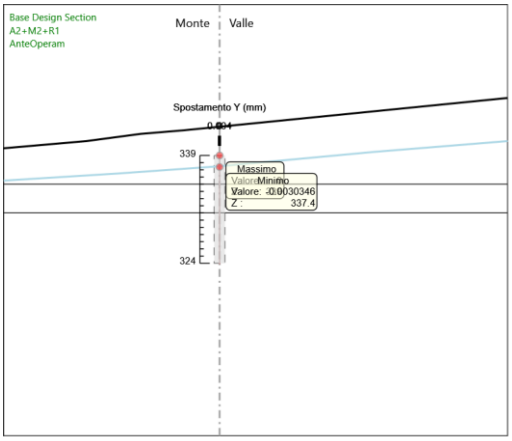
Design Assumption: A2+M2+R1 Risultati Paratia		Muro: LEFT	
Stage	**Z (m)**	**Momento (kN*m/m)**	**Taglio (kN/m)**
Scavo finale	326.999	-385.28	174.95
Scavo finale	326.799	-349.02	181.29
Scavo finale	326.599	-312.07	184.66
Scavo finale	326.399	-275.04	185.15
Scavo finale	326.199	-238.48	182.81
Scavo finale	325.999	-202.93	177.72
Scavo finale	325.799	-168.95	169.91
Scavo finale	325.599	-137.06	159.45
Scavo finale	325.399	-107.66	147.02
Scavo finale	325.199	-81.09	132.84
Scavo finale	324.999	-57.7	116.9
Scavo finale	324.799	-37.83	99.34
Scavo finale	324.599	-21.8	80.14
Scavo finale	324.399	-9.93	59.33
Scavo finale	324.199	-2.56	36.89
Scavo finale	324	0	12.83

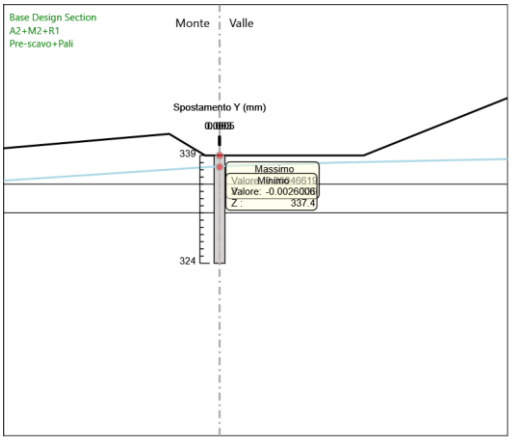
6.3.4. Tabella Risultati Paratia A2+M2+R1 - Left Wall - Stage: Sisma

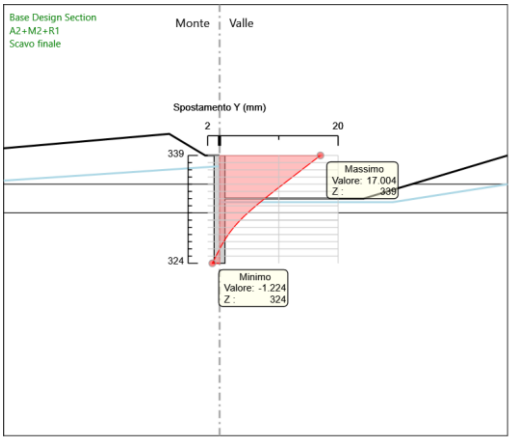
Design Assumption: A2+M2+R1	Risultati Paratia	Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Sisma	339	0	0
Sisma	338.8	0	0
Sisma	338.8	0	0
Sisma	338.6	0	0
Sisma	338.6	0	0
Sisma	338.4	0	0
Sisma	338.4	0	0
Sisma	338.2	0	0
Sisma	338.2	0	0
Sisma	338	0	0
Sisma	338	0	0
Sisma	337.8	0	0
Sisma	337.8	0	0
Sisma	337.6	0	0
Sisma	337.6	0	0
Sisma	337.4	-0.02	-0.1
Sisma	337.2	-0.13	-0.55
Sisma	337	-0.41	-1.41
Sisma	336.8	-0.95	-2.68
Sisma	336.6	-1.82	-4.37
Sisma	336.4	-3.12	-6.48
Sisma	336.2	-4.92	-9.01
Sisma	336	-7.31	-11.95
Sisma	335.8	-10.37	-15.3
Sisma	335.6	-14.19	-19.08
Sisma	335.4	-18.84	-23.27
Sisma	335.2	-24.41	-27.87
Sisma	335	-30.99	-32.89
Sisma	334.8	-39.12	-40.6
Sisma	334.6	-48.89	-48.87
Sisma	334.4	-60.43	-57.71
Sisma	334.2	-73.85	-67.11
Sisma	334	-89.27	-77.07
Sisma	333.8	-106.79	-87.59
Sisma	333.6	-126.52	-98.68
Sisma	333.4	-148.59	-110.33
Sisma	333.2	-173.11	-122.55
Sisma	333	-200.17	-135.32
Sisma	332.8	-228.87	-143.45
Sisma	332.6	-258.87	-150.02
Sisma	332.4	-289.88	-155.04
Sisma	332.2	-321.67	-158.99
Sisma	332	-354.15	-162.39
Sisma	331.8	-387.2	-165.25
Sisma	331.6	-420.73	-167.56
Sisma	331.4	-454.6	-169.32
Sisma	331.2	-488.7	-170.54
Sisma	331	-522.95	-171.21
Sisma	330.8	-552.29	-146.7
Sisma	330.6	-576.89	-123.04
Sisma	330.4	-596.94	-100.23
Sisma	330.2	-612.59	-78.24
Sisma	330	-624	-57.06
Sisma	329.799	-631.34	-36.67
Sisma	329.599	-634.75	-17.06
Sisma	329.399	-634.39	1.81
Sisma	329.199	-630.4	19.94
Sisma	328.999	-622.93	37.36
Sisma	328.799	-612.11	54.1
Sisma	328.599	-598.07	70.16
Sisma	328.399	-580.96	85.58
Sisma	328.199	-560.87	100.37
Sisma	327.999	-537.96	114.55
Sisma	327.799	-512.33	128.14
Sisma	327.599	-484.1	141.16
Sisma	327.399	-453.38	153.63
Sisma	327.199	-420.26	165.56

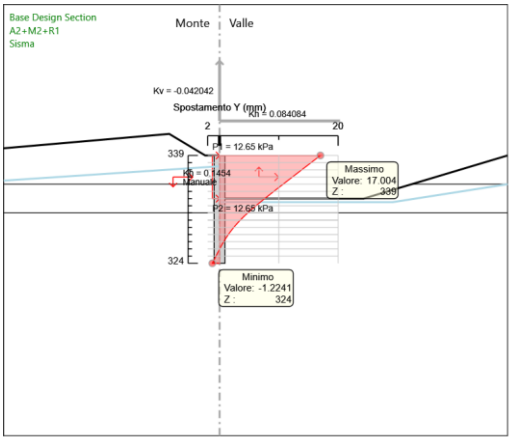
Design Assumption: A2+M2+R1	Risultati Paratia	Muro: LEFT	
Stage	**Z (m)**	**Momento (kN*m/m)**	**Taglio (kN/m)**
Sisma	326.999	-385.27	174.95
Sisma	326.799	-349.02	181.29
Sisma	326.599	-312.07	184.66
Sisma	326.399	-275.04	185.15
Sisma	326.199	-238.47	182.81
Sisma	325.999	-202.93	177.71
Sisma	325.799	-168.95	169.91
Sisma	325.599	-137.06	159.45
Sisma	325.399	-107.66	147.02
Sisma	325.199	-81.09	132.83
Sisma	324.999	-57.7	116.91
Sisma	324.799	-37.83	99.34
Sisma	324.599	-21.8	80.15
Sisma	324.399	-9.93	59.33
Sisma	324.199	-2.56	36.89
Sisma	324	0	12.83

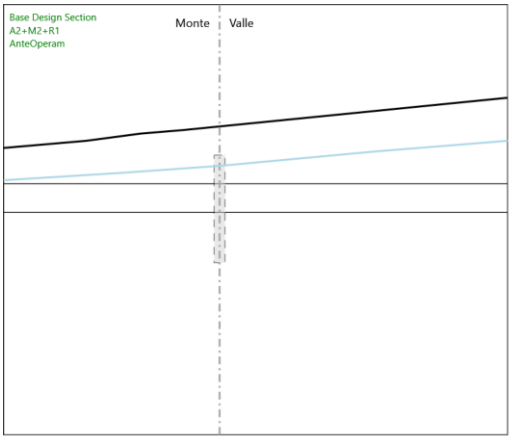
6.3.5. Tabella Grafici dei Risultati

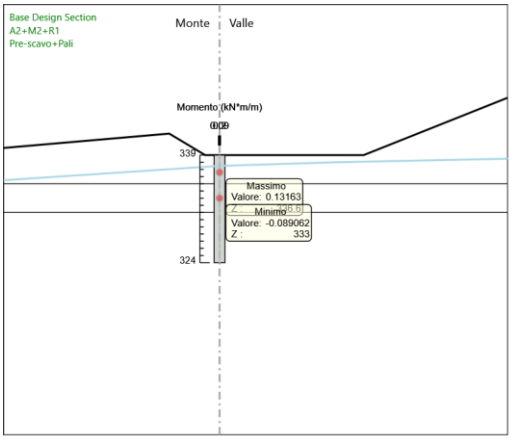


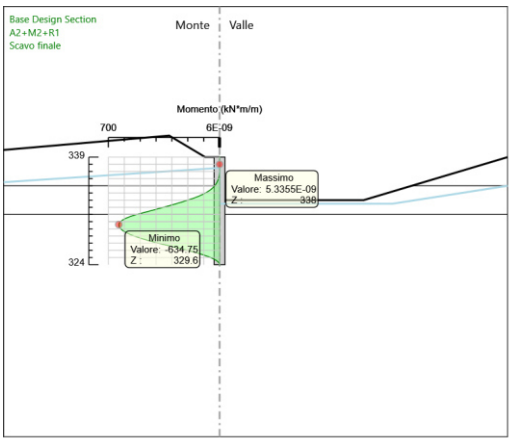


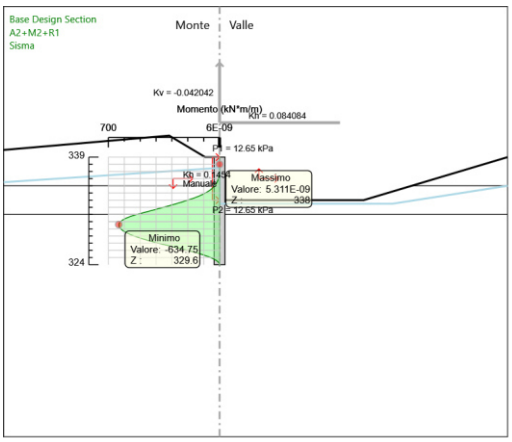


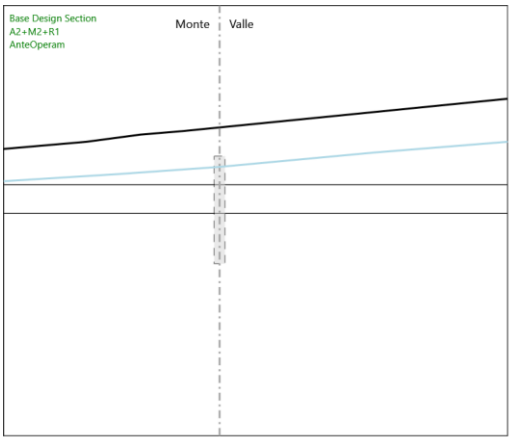


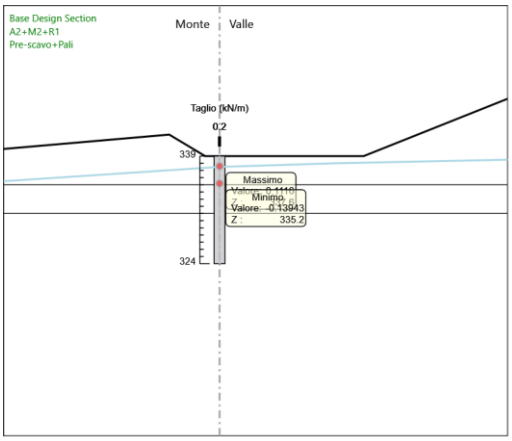


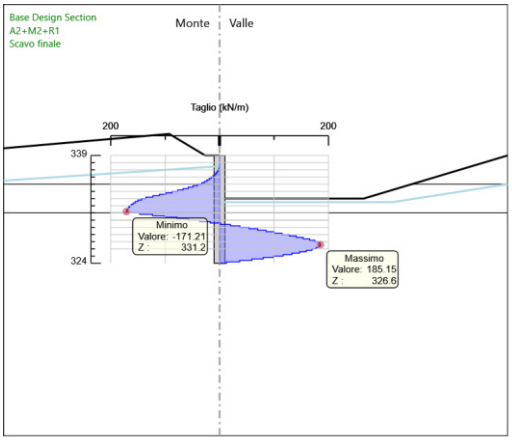


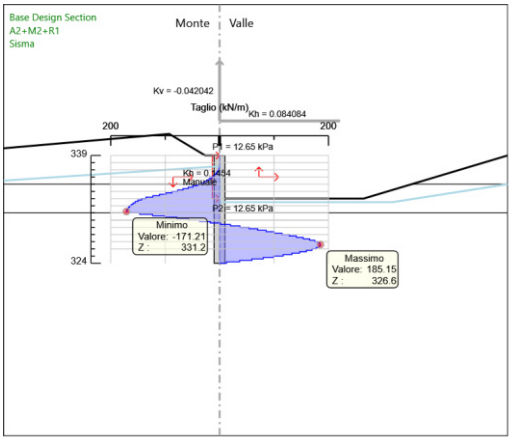












6.4.1. Riepilogo spinte

Design Assumption: A2+M2+R1 Stage	Tipo Risultato: Riepilogo spinte Vera effettiva (kN/m)	Muro: Pressione neutra (kN/m)	LEFT Vera Totale (kN/m)	Lato Min ammissibile (kN/m)	LEFT Max ammissibile (kN/m)	Percentuale di resistenza massima	Vera / Attiva
AnteOperam	1281	910.5	2191.5	594.8	7037.8	18.2%	2.15
Pre-scavo+Pali	929.7	909.2	1838.9	277.9	4936.3	18.83%	3.35
Scavo finale	662.1	542.7	1204.8	495.1	5948.8	11.13%	1.34
Sisma	662.1	542.7	1204.8	495.1	5948.8	11.13%	1.34

Design Assumption: A2+M2+R1	Tipo Risultato: Riepilogo spinte	Muro:	LEFT	Lato	RIGHT		
Stage	Vera effettiva (kN/m)	Pressione neutra (kN/m)	Vera Totale (kN/m)	Min ammissibile (kN/m)	Max ammissibile (kN/m)	Percentuale di resistenza massima	Vera / Attiva
AnteOperam	1278.5	913	2191.5	710.4	8215.9	15.56%	1.8
Pre-scavo+Pali	928.1	910.7	1838.9	164.5	4931.7	18.82%	5.64
Scavo finale	769.1	435.7	1204.8	0	2201.7	34.93%	∞
Sisma	769.1	435.7	1204.8	0	2201.7	34.93%	∞

6.5. Risultati SISMICA STR

6.5.1. Tabella Risultati Paratia SISMICA STR - Left Wall - Stage: AnteOperam

Design Assumption: SISMICA STR	Risultati Paratia	Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
AnteOperam	339	0	0
AnteOperam	338.8	0	0
AnteOperam	338.6	0	0
AnteOperam	338.4	0	0
AnteOperam	338.2	0	0
AnteOperam	338	0	0
AnteOperam	337.8	0	0
AnteOperam	337.6	0	0
AnteOperam	337.4	0	0
AnteOperam	337.2	0	0
AnteOperam	337	0	0
AnteOperam	336.8	0	0
AnteOperam	336.6	0	0
AnteOperam	336.4	0	0
AnteOperam	336.2	0	0
AnteOperam	336	0	0
AnteOperam	335.8	0	0
AnteOperam	335.6	0	0
AnteOperam	335.4	0	0
AnteOperam	335.2	0	0
AnteOperam	335	0	0
AnteOperam	334.8	0	0
AnteOperam	334.6	0	0
AnteOperam	334.4	0	0
AnteOperam	334.2	0	0
AnteOperam	334	0	0
AnteOperam	333.8	0	0
AnteOperam	333.6	0	0
AnteOperam	333.4	0	0
AnteOperam	333.2	0	0
AnteOperam	333	0	0
AnteOperam	332.8	0	0
AnteOperam	332.6	0	0
AnteOperam	332.4	0	0
AnteOperam	332.2	0	0
AnteOperam	332	0	0
AnteOperam	331.8	0	0
AnteOperam	331.6	0	0
AnteOperam	331.4	0	0
AnteOperam	331.2	0	0
AnteOperam	331	0	0
AnteOperam	330.8	0	0
AnteOperam	330.6	0	0
AnteOperam	330.4	0	0
AnteOperam	330.2	0	0
AnteOperam	330	0	0
AnteOperam	329.799	0	0
AnteOperam	329.599	0	0
AnteOperam	329.399	0	0
AnteOperam	329.199	0	0
AnteOperam	328.999	0	0
AnteOperam	328.799	0	0
AnteOperam	328.599	0	0
AnteOperam	328.399	0	0
AnteOperam	328.199	0	0
AnteOperam	327.999	0	0
AnteOperam	327.799	0	0
AnteOperam	327.599	0	0
AnteOperam	327.399	0	0
AnteOperam	327.199	0	0
AnteOperam	326.999	0	0
AnteOperam	326.799	0	0
AnteOperam	326.599	0	0
AnteOperam	326.399	0	0

Design Assumption: SISMICA STR	Risultati Paratia	Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
AnteOperam	326.199	0	0
AnteOperam	325.999	0	0
AnteOperam	325.799	0	0
AnteOperam	325.599	0	0
AnteOperam	325.399	0	0
AnteOperam	325.199	0	0
AnteOperam	324.999	0	0
AnteOperam	324.799	0	0
AnteOperam	324.599	0	0
AnteOperam	324.399	0	0
AnteOperam	324.199	0	0
AnteOperam	324	0	0

6.5.2. Tabella Risultati Paratia SISMICA STR - Left Wall - Stage: Pre-scavo+Pali

Design Assumption: SISMICA STR	Risultati Paratia	Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Pre-scavo+Pali	339	0	0
Pre-scavo+Pali	338.8	0	0
Pre-scavo+Pali	338.6	0	0.02
Pre-scavo+Pali	338.4	0.01	0.03
Pre-scavo+Pali	338.2	0.02	0.05
Pre-scavo+Pali	338	0.03	0.07
Pre-scavo+Pali	337.8	0.05	0.08
Pre-scavo+Pali	337.6	0.07	0.1
Pre-scavo+Pali	337.4	0.09	0.11
Pre-scavo+Pali	337.2	0.11	0.09
Pre-scavo+Pali	337	0.12	0.06
Pre-scavo+Pali	336.8	0.13	0.04
Pre-scavo+Pali	336.6	0.13	0.01
Pre-scavo+Pali	336.4	0.13	-0.01
Pre-scavo+Pali	336.2	0.12	-0.03
Pre-scavo+Pali	336	0.11	-0.05
Pre-scavo+Pali	335.8	0.1	-0.07
Pre-scavo+Pali	335.6	0.08	-0.09
Pre-scavo+Pali	335.4	0.06	-0.1
Pre-scavo+Pali	335.2	0.04	-0.12
Pre-scavo+Pali	335	0.01	-0.14
Pre-scavo+Pali	334.8	-0.01	-0.12
Pre-scavo+Pali	334.6	-0.03	-0.1
Pre-scavo+Pali	334.4	-0.05	-0.08
Pre-scavo+Pali	334.2	-0.06	-0.06
Pre-scavo+Pali	334	-0.07	-0.05
Pre-scavo+Pali	333.8	-0.08	-0.04
Pre-scavo+Pali	333.6	-0.08	-0.03
Pre-scavo+Pali	333.4	-0.09	-0.02
Pre-scavo+Pali	333.2	-0.09	-0.01
Pre-scavo+Pali	333	-0.09	0
Pre-scavo+Pali	332.8	-0.09	0
Pre-scavo+Pali	332.6	-0.09	0.01
Pre-scavo+Pali	332.4	-0.08	0.01
Pre-scavo+Pali	332.2	-0.08	0.01
Pre-scavo+Pali	332	-0.08	0.02
Pre-scavo+Pali	331.8	-0.07	0.02
Pre-scavo+Pali	331.6	-0.07	0.02
Pre-scavo+Pali	331.4	-0.06	0.02
Pre-scavo+Pali	331.2	-0.06	0.02
Pre-scavo+Pali	331	-0.05	0.03
Pre-scavo+Pali	330.8	-0.05	0.03
Pre-scavo+Pali	330.6	-0.04	0.03
Pre-scavo+Pali	330.4	-0.04	0.02
Pre-scavo+Pali	330.2	-0.03	0.02
Pre-scavo+Pali	330	-0.03	0.02
Pre-scavo+Pali	329.799	-0.03	0.02
Pre-scavo+Pali	329.599	-0.02	0.02
Pre-scavo+Pali	329.399	-0.02	0.02
Pre-scavo+Pali	329.199	-0.02	0.02
Pre-scavo+Pali	328.999	-0.01	0.01
Pre-scavo+Pali	328.799	-0.01	0.01
Pre-scavo+Pali	328.599	-0.01	0.01
Pre-scavo+Pali	328.399	-0.01	0.01
Pre-scavo+Pali	328.199	0	0.01
Pre-scavo+Pali	327.999	0	0.01
Pre-scavo+Pali	327.799	0	0.01
Pre-scavo+Pali	327.599	0	0.01
Pre-scavo+Pali	327.399	0	0
Pre-scavo+Pali	327.199	0	0
Pre-scavo+Pali	326.999	0	0
Pre-scavo+Pali	326.799	0	0
Pre-scavo+Pali	326.599	0	0
Pre-scavo+Pali	326.399	0	0
Pre-scavo+Pali	326.199	0	0
Pre-scavo+Pali	325.999	0	0
Pre-scavo+Pali	325.799	0	0

Design Assumption: SISMICA STR	Risultati Paratia	Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Pre-scavo+Pali	325.599	0	0
Pre-scavo+Pali	325.399	0	0
Pre-scavo+Pali	325.199	0	0
Pre-scavo+Pali	324.999	0	0
Pre-scavo+Pali	324.799	0	0
Pre-scavo+Pali	324.599	0	0
Pre-scavo+Pali	324.399	0	0
Pre-scavo+Pali	324.199	0	0
Pre-scavo+Pali	324	0	0

6.5.3. Tabella Risultati Paratia SISMICA STR - Left Wall - Stage: Scavo finale

Design Assumption: SISMICA STR	Risultati Paratia	Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Scavo finale	339	0	0
Scavo finale	338.8	0	0
Scavo finale	338.8	0	0
Scavo finale	338.6	0	0
Scavo finale	338.6	0	0
Scavo finale	338.4	0	0
Scavo finale	338.4	0	0
Scavo finale	338.2	0	0
Scavo finale	338.2	0	0
Scavo finale	338	0	0
Scavo finale	338	0	0
Scavo finale	337.8	0	0
Scavo finale	337.8	0	0
Scavo finale	337.6	0	0
Scavo finale	337.6	0	0
Scavo finale	337.4	0	0
Scavo finale	337.4	0	0
Scavo finale	337.2	-0.01	-0.07
Scavo finale	337	-0.08	-0.32
Scavo finale	336.8	-0.24	-0.8
Scavo finale	336.6	-0.56	-1.64
Scavo finale	336.4	-1.14	-2.86
Scavo finale	336.2	-2.03	-4.46
Scavo finale	336	-3.31	-6.42
Scavo finale	335.8	-5.07	-8.76
Scavo finale	335.6	-7.36	-11.47
Scavo finale	335.4	-10.27	-14.55
Scavo finale	335.2	-13.87	-18
Scavo finale	335	-18.23	-21.82
Scavo finale	334.8	-23.77	-27.66
Scavo finale	334.6	-30.57	-33.99
Scavo finale	334.4	-38.73	-40.81
Scavo finale	334.2	-48.35	-48.11
Scavo finale	334	-59.53	-55.91
Scavo finale	333.8	-72.37	-64.19
Scavo finale	333.6	-86.96	-72.96
Scavo finale	333.4	-103.41	-82.22
Scavo finale	333.2	-121.81	-91.97
Scavo finale	333	-142.25	-102.2
Scavo finale	332.8	-163.36	-105.54
Scavo finale	332.6	-184.68	-106.64
Scavo finale	332.4	-205.79	-105.51
Scavo finale	332.2	-226.36	-102.86
Scavo finale	332	-246.25	-99.45
Scavo finale	331.8	-265.3	-95.27
Scavo finale	331.6	-283.38	-90.33
Scavo finale	331.4	-300.3	-84.63
Scavo finale	331.2	-315.94	-78.16
Scavo finale	331	-330.12	-70.94
Scavo finale	330.8	-341.11	-54.95
Scavo finale	330.6	-348.89	-38.9
Scavo finale	330.4	-353.45	-22.78
Scavo finale	330.2	-354.82	-6.84
Scavo finale	330	-353.27	7.75
Scavo finale	329.799	-349.1	20.83
Scavo finale	329.599	-342.6	32.48
Scavo finale	329.399	-334.05	42.76
Scavo finale	329.199	-323.7	51.76
Scavo finale	328.999	-311.79	59.54
Scavo finale	328.799	-298.56	66.16
Scavo finale	328.599	-284.22	71.7
Scavo finale	328.399	-268.98	76.23
Scavo finale	328.199	-253.01	79.79
Scavo finale	327.999	-236.52	82.45
Scavo finale	327.799	-219.67	84.27
Scavo finale	327.599	-202.61	85.28
Scavo finale	327.399	-185.5	85.55

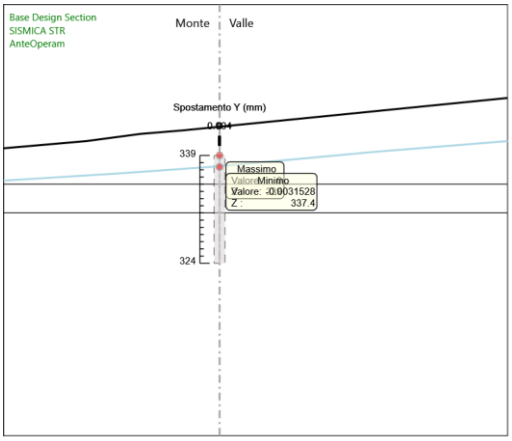
Design Assumption: SISMICA STR	Risultati Paratia	Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Scavo finale	327.199	-168.47	85.12
Scavo finale	326.999	-151.67	84.02
Scavo finale	326.799	-135.21	82.29
Scavo finale	326.599	-119.21	79.97
Scavo finale	326.399	-103.79	77.08
Scavo finale	326.199	-89.06	73.65
Scavo finale	325.999	-75.12	69.7
Scavo finale	325.799	-62.07	65.25
Scavo finale	325.599	-50.01	60.32
Scavo finale	325.399	-39.02	54.92
Scavo finale	325.199	-29.21	49.05
Scavo finale	324.999	-20.66	42.73
Scavo finale	324.799	-13.47	35.97
Scavo finale	324.599	-7.72	28.76
Scavo finale	324.399	-3.5	21.11
Scavo finale	324.199	-0.89	13.02
Scavo finale	324	0	4.49

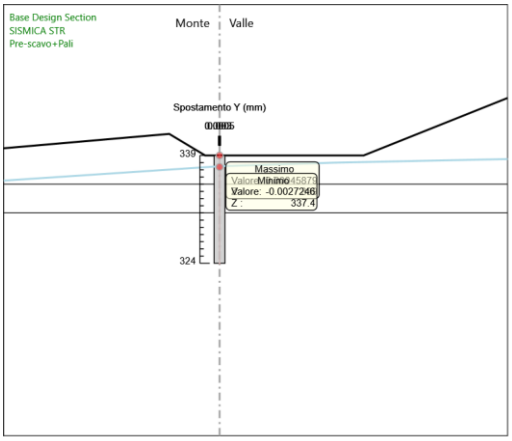
6.5.4. Tabella Risultati Paratia SISMICA STR - Left Wall - Stage: Sisma

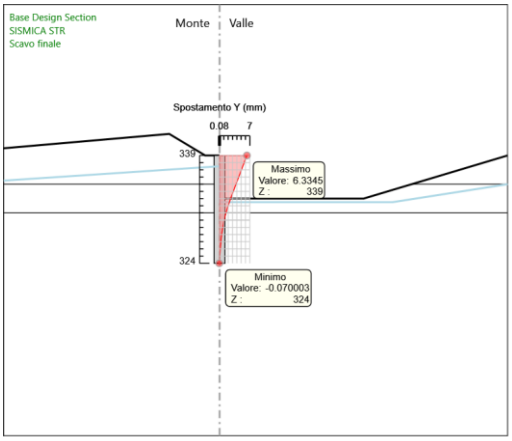
Design Assumption: SISMICA STR	Risultati Paratia	Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Sisma	339	0	-1.58
Sisma	338.8	-0.32	-1.58
Sisma	338.6	-1.27	-4.75
Sisma	338.4	-2.85	-7.92
Sisma	338.2	-5.07	-11.09
Sisma	338	-7.92	-14.25
Sisma	337.8	-11.41	-17.42
Sisma	337.6	-15.52	-20.59
Sisma	337.4	-20.28	-23.76
Sisma	337.2	-25.67	-26.99
Sisma	337	-31.76	-30.41
Sisma	336.8	-38.57	-34.06
Sisma	336.6	-46.18	-38.07
Sisma	336.4	-54.68	-42.46
Sisma	336.2	-64.12	-47.22
Sisma	336	-74.59	-52.35
Sisma	335.8	-86.17	-57.86
Sisma	335.6	-98.91	-63.73
Sisma	335.4	-112.91	-69.98
Sisma	335.2	-128.23	-76.6
Sisma	335	-144.95	-83.59
Sisma	334.8	-163.48	-92.6
Sisma	334.6	-183.9	-102.1
Sisma	334.4	-206.31	-112.08
Sisma	334.2	-230.83	-122.56
Sisma	334	-257.53	-133.52
Sisma	333.8	-286.52	-144.97
Sisma	333.6	-317.9	-156.91
Sisma	333.4	-351.77	-169.33
Sisma	333.2	-388.24	-182.25
Sisma	333	-427.36	-195.62
Sisma	332.8	-467.25	-199.42
Sisma	332.6	-507.54	-201.49
Sisma	332.4	-547.91	-201.82
Sisma	332.2	-588.11	-201.03
Sisma	332	-628.06	-199.74
Sisma	331.8	-667.66	-197.96
Sisma	331.6	-706.81	-195.66
Sisma	331.4	-745.38	-192.85
Sisma	331.2	-783.28	-189.53
Sisma	331	-820.42	-185.68
Sisma	330.8	-851.68	-156.31
Sisma	330.6	-877.21	-127.66
Sisma	330.4	-897.16	-99.74
Sisma	330.2	-911.66	-72.5
Sisma	330	-920.84	-45.92
Sisma	329.799	-924.84	-19.98
Sisma	329.599	-923.77	5.34
Sisma	329.399	-917.76	30.09
Sisma	329.199	-906.95	54.05
Sisma	328.999	-891.5	77.24
Sisma	328.799	-871.56	99.68
Sisma	328.599	-847.29	121.39
Sisma	328.399	-818.8	142.41
Sisma	328.199	-786.24	162.76
Sisma	327.999	-749.74	182.46
Sisma	327.799	-709.43	201.55
Sisma	327.599	-665.43	220.04
Sisma	327.399	-618.3	235.66
Sisma	327.199	-568.79	247.52
Sisma	326.999	-517.72	255.34
Sisma	326.799	-465.87	259.25
Sisma	326.599	-413.97	259.36
Sisma	326.399	-362.82	255.77
Sisma	326.199	-313.11	248.57
Sisma	325.999	-265.5	238.01
Sisma	325.799	-220.46	225.21

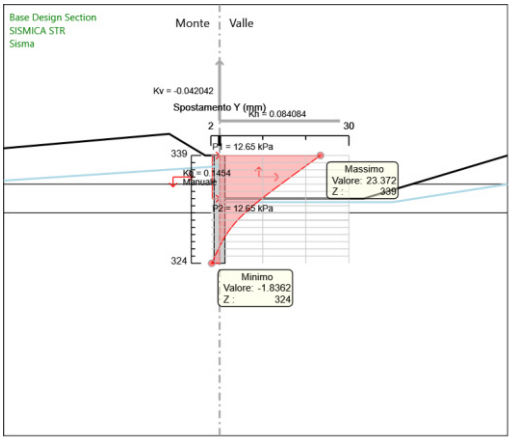
Design Assumption: SISMICA STR	Risultati Paratia	Muro: LEFT	
Stage	**Z (m)**	**Momento (kN*m/m)**	**Taglio (kN/m)**
Sisma	325.599	-178.42	210.21
Sisma	325.399	-139.81	193.04
Sisma	325.199	-105.06	173.72
Sisma	324.999	-74.57	152.4
Sisma	324.799	-48.75	129.09
Sisma	324.599	-27.99	103.81
Sisma	324.399	-12.68	76.55
Sisma	324.199	-3.21	47.33
Sisma	324	0	16.14

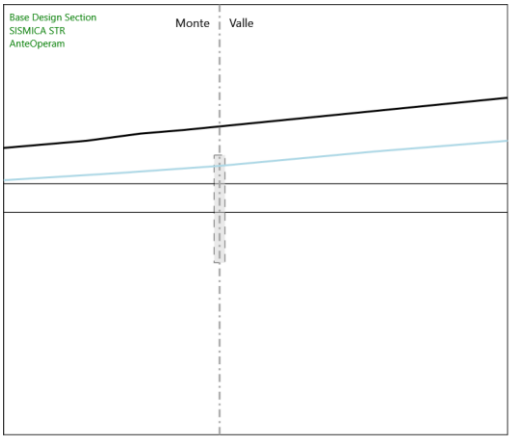
6.5.5. Tabella Grafici dei Risultati

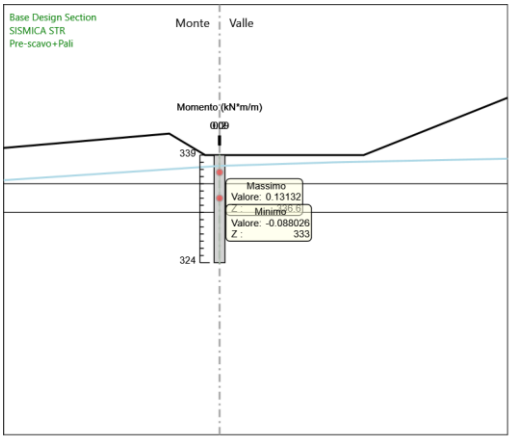


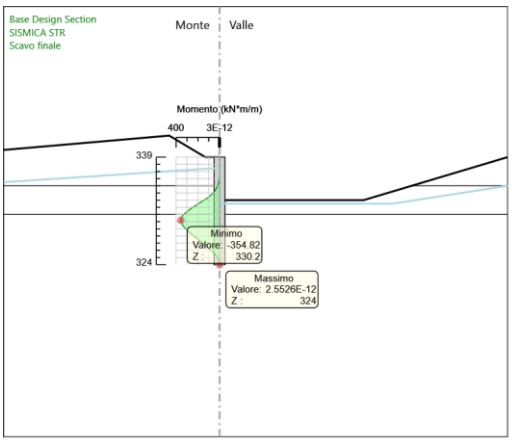


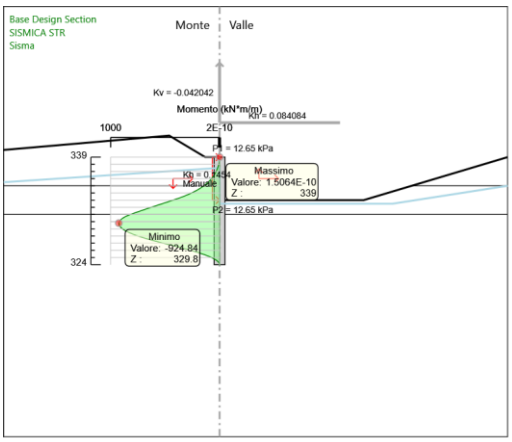


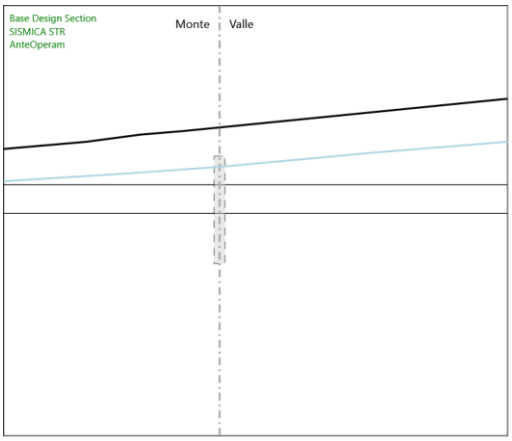


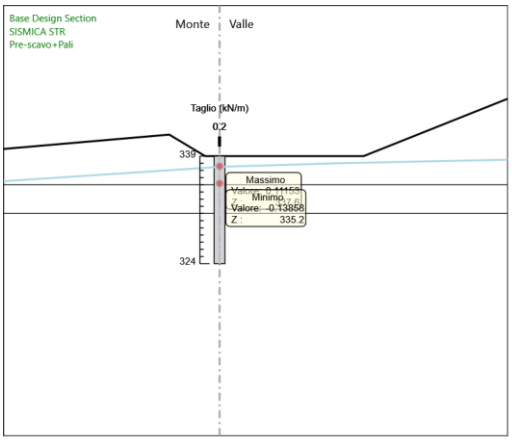


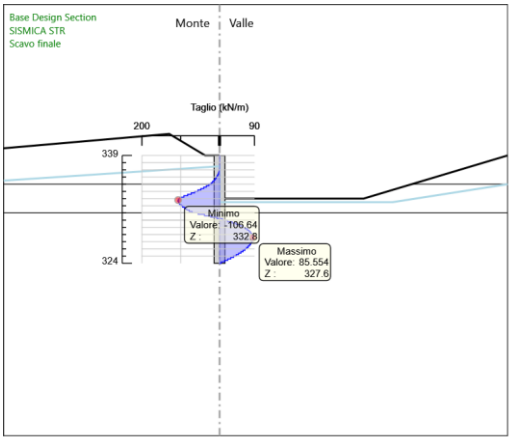


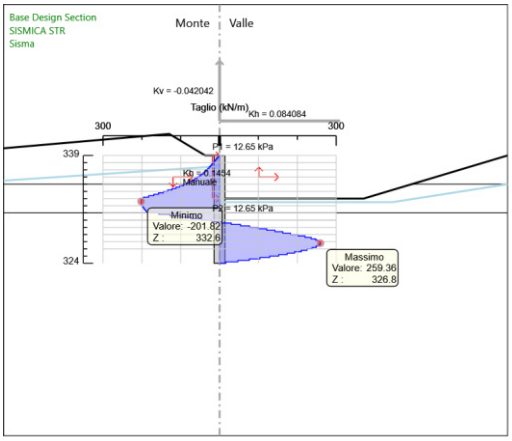

Base Design Section
SISMICA STR
Scavo finale
Monte
Valle
Momento (kN*m/m)
400
3E-12
339
324
Minimo
Valore: -354.82
Z : 330.2
Massimo
Valore: 2.5526E-12
Z : 324


Base Design Section
SISMICA STR
Sisma
Monte
Valle
Kv = -0.042042
Momento (kN*m/m)
Kh = 0.084084
1000
2E-10
339
P1 = 12.65 kPa
Kh = 0.1454
Manuale
Massimo
Valore: 1.5064E-10
Z : 339
P2 = 12.65 kPa
324
Minimo
Valore: -924.84
Z : 329.8


Base Design Section
SISMICA STR
AnteOperam
Monte
Valle


Base Design Section
SISMICA STR
Pre-scavo+Pali
Monte
Valle
Taglio (kN/m)
0.2
339
Massimo
Minimo
Valore: -0.13858
Z : 335.2
324


Base Design Section
SISMICA STR
Scavo finale
Monte
Valle
Taglio (kN/m)
200
90
339
324
Minimo
Valore: -106.64
Z : 332.8
Massimo
Valore: 85.554
Z : 327.6


Base Design Section
SISMICA STR
Sisma
Monte
Valle
Kv = -0.042042
Taglio (kN/m)
Kh = 0.084084
300
300
339
P1 = 12.65 kPa
Kh = 0.1454
Manuale
P2 = 12.65 kPa
Minimo
Valore: -201.82
Z : 332.6
324
Massimo
Valore: 259.36
Z : 326.8

6.6. Risultati SISMICA GEO

6.6.1. Tabella Risultati Paratia SISMICA GEO - Left Wall - Stage: AnteOperam

Design Assumption: SISMICA GEO	Risultati Paratia	Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
AnteOperam	339	0	0
AnteOperam	338.8	0	0
AnteOperam	338.6	0	0
AnteOperam	338.4	0	0
AnteOperam	338.2	0	0
AnteOperam	338	0	0
AnteOperam	337.8	0	0
AnteOperam	337.6	0	0
AnteOperam	337.4	0	0
AnteOperam	337.2	0	0
AnteOperam	337	0	0
AnteOperam	336.8	0	0
AnteOperam	336.6	0	0
AnteOperam	336.4	0	0
AnteOperam	336.2	0	0
AnteOperam	336	0	0
AnteOperam	335.8	0	0
AnteOperam	335.6	0	0
AnteOperam	335.4	0	0
AnteOperam	335.2	0	0
AnteOperam	335	0	0
AnteOperam	334.8	0	0
AnteOperam	334.6	0	0
AnteOperam	334.4	0	0
AnteOperam	334.2	0	0
AnteOperam	334	0	0
AnteOperam	333.8	0	0
AnteOperam	333.6	0	0
AnteOperam	333.4	0	0
AnteOperam	333.2	0	0
AnteOperam	333	0	0
AnteOperam	332.8	0	0
AnteOperam	332.6	0	0
AnteOperam	332.4	0	0
AnteOperam	332.2	0	0
AnteOperam	332	0	0
AnteOperam	331.8	0	0
AnteOperam	331.6	0	0
AnteOperam	331.4	0	0
AnteOperam	331.2	0	0
AnteOperam	331	0	0
AnteOperam	330.8	0	0
AnteOperam	330.6	0	0
AnteOperam	330.4	0	0
AnteOperam	330.2	0	0
AnteOperam	330	0	0
AnteOperam	329.799	0	0
AnteOperam	329.599	0	0
AnteOperam	329.399	0	0
AnteOperam	329.199	0	0
AnteOperam	328.999	0	0
AnteOperam	328.799	0	0
AnteOperam	328.599	0	0
AnteOperam	328.399	0	0
AnteOperam	328.199	0	0
AnteOperam	327.999	0	0
AnteOperam	327.799	0	0
AnteOperam	327.599	0	0
AnteOperam	327.399	0	0
AnteOperam	327.199	0	0
AnteOperam	326.999	0	0
AnteOperam	326.799	0	0
AnteOperam	326.599	0	0
AnteOperam	326.399	0	0

Design Assumption: SISMICA GEO	Risultati Paratia	Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
AnteOperam	326.199	0	0
AnteOperam	325.999	0	0
AnteOperam	325.799	0	0
AnteOperam	325.599	0	0
AnteOperam	325.399	0	0
AnteOperam	325.199	0	0
AnteOperam	324.999	0	0
AnteOperam	324.799	0	0
AnteOperam	324.599	0	0
AnteOperam	324.399	0	0
AnteOperam	324.199	0	0
AnteOperam	324	0	0

6.6.2. Tabella Risultati Paratia SISMICA GEO - Left Wall - Stage: Pre-scavo+Pali

Design Assumption: SISMICA GEO Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Pre-scavo+Pali	339	0	0
Pre-scavo+Pali	338.8	0	0
Pre-scavo+Pali	338.6	0	0.02
Pre-scavo+Pali	338.4	0.01	0.03
Pre-scavo+Pali	338.2	0.02	0.05
Pre-scavo+Pali	338	0.03	0.07
Pre-scavo+Pali	337.8	0.05	0.08
Pre-scavo+Pali	337.6	0.07	0.1
Pre-scavo+Pali	337.4	0.09	0.11
Pre-scavo+Pali	337.2	0.11	0.09
Pre-scavo+Pali	337	0.12	0.06
Pre-scavo+Pali	336.8	0.13	0.04
Pre-scavo+Pali	336.6	0.13	0.01
Pre-scavo+Pali	336.4	0.13	-0.01
Pre-scavo+Pali	336.2	0.12	-0.03
Pre-scavo+Pali	336	0.11	-0.05
Pre-scavo+Pali	335.8	0.1	-0.07
Pre-scavo+Pali	335.6	0.08	-0.09
Pre-scavo+Pali	335.4	0.06	-0.1
Pre-scavo+Pali	335.2	0.04	-0.12
Pre-scavo+Pali	335	0.01	-0.14
Pre-scavo+Pali	334.8	-0.01	-0.12
Pre-scavo+Pali	334.6	-0.03	-0.1
Pre-scavo+Pali	334.4	-0.05	-0.08
Pre-scavo+Pali	334.2	-0.06	-0.06
Pre-scavo+Pali	334	-0.07	-0.05
Pre-scavo+Pali	333.8	-0.08	-0.04
Pre-scavo+Pali	333.6	-0.08	-0.03
Pre-scavo+Pali	333.4	-0.09	-0.02
Pre-scavo+Pali	333.2	-0.09	-0.01
Pre-scavo+Pali	333	-0.09	0
Pre-scavo+Pali	332.8	-0.09	0
Pre-scavo+Pali	332.6	-0.09	0.01
Pre-scavo+Pali	332.4	-0.08	0.01
Pre-scavo+Pali	332.2	-0.08	0.01
Pre-scavo+Pali	332	-0.08	0.02
Pre-scavo+Pali	331.8	-0.07	0.02
Pre-scavo+Pali	331.6	-0.07	0.02
Pre-scavo+Pali	331.4	-0.06	0.02
Pre-scavo+Pali	331.2	-0.06	0.02
Pre-scavo+Pali	331	-0.05	0.03
Pre-scavo+Pali	330.8	-0.05	0.03
Pre-scavo+Pali	330.6	-0.04	0.03
Pre-scavo+Pali	330.4	-0.04	0.02
Pre-scavo+Pali	330.2	-0.03	0.02
Pre-scavo+Pali	330	-0.03	0.02
Pre-scavo+Pali	329.799	-0.03	0.02
Pre-scavo+Pali	329.599	-0.02	0.02
Pre-scavo+Pali	329.399	-0.02	0.02
Pre-scavo+Pali	329.199	-0.02	0.02
Pre-scavo+Pali	328.999	-0.01	0.01
Pre-scavo+Pali	328.799	-0.01	0.01
Pre-scavo+Pali	328.599	-0.01	0.01
Pre-scavo+Pali	328.399	-0.01	0.01
Pre-scavo+Pali	328.199	0	0.01
Pre-scavo+Pali	327.999	0	0.01
Pre-scavo+Pali	327.799	0	0.01
Pre-scavo+Pali	327.599	0	0.01
Pre-scavo+Pali	327.399	0	0
Pre-scavo+Pali	327.199	0	0
Pre-scavo+Pali	326.999	0	0
Pre-scavo+Pali	326.799	0	0
Pre-scavo+Pali	326.599	0	0
Pre-scavo+Pali	326.399	0	0
Pre-scavo+Pali	326.199	0	0
Pre-scavo+Pali	325.999	0	0
Pre-scavo+Pali	325.799	0	0

Design Assumption: SISMICA GEO	Risultati Paratia	Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Pre-scavo+Pali	325.599	0	0
Pre-scavo+Pali	325.399	0	0
Pre-scavo+Pali	325.199	0	0
Pre-scavo+Pali	324.999	0	0
Pre-scavo+Pali	324.799	0	0
Pre-scavo+Pali	324.599	0	0
Pre-scavo+Pali	324.399	0	0
Pre-scavo+Pali	324.199	0	0
Pre-scavo+Pali	324	0	0

6.6.3. Tabella Risultati Paratia SISMICA GEO - Left Wall - Stage: Scavo finale

Design Assumption: SISMICA GEO Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Scavo finale	339	0	0
Scavo finale	338.8	0	0
Scavo finale	338.8	0	0
Scavo finale	338.6	0	0
Scavo finale	338.6	0	0
Scavo finale	338.4	0	0
Scavo finale	338.4	0	0
Scavo finale	338.2	0	0
Scavo finale	338.2	0	0
Scavo finale	338	0	0
Scavo finale	338	0	0
Scavo finale	337.8	0	0
Scavo finale	337.8	0	0
Scavo finale	337.6	0	0
Scavo finale	337.6	0	0
Scavo finale	337.4	0	0
Scavo finale	337.4	0	0
Scavo finale	337.2	-0.01	-0.07
Scavo finale	337	-0.08	-0.32
Scavo finale	336.8	-0.24	-0.8
Scavo finale	336.6	-0.56	-1.64
Scavo finale	336.4	-1.14	-2.86
Scavo finale	336.2	-2.03	-4.46
Scavo finale	336	-3.31	-6.42
Scavo finale	335.8	-5.07	-8.76
Scavo finale	335.6	-7.36	-11.47
Scavo finale	335.4	-10.27	-14.55
Scavo finale	335.2	-13.87	-18
Scavo finale	335	-18.23	-21.82
Scavo finale	334.8	-23.77	-27.66
Scavo finale	334.6	-30.57	-33.99
Scavo finale	334.4	-38.73	-40.81
Scavo finale	334.2	-48.35	-48.11
Scavo finale	334	-59.53	-55.91
Scavo finale	333.8	-72.37	-64.19
Scavo finale	333.6	-86.96	-72.96
Scavo finale	333.4	-103.41	-82.22
Scavo finale	333.2	-121.81	-91.97
Scavo finale	333	-142.25	-102.2
Scavo finale	332.8	-163.36	-105.54
Scavo finale	332.6	-184.68	-106.64
Scavo finale	332.4	-205.79	-105.51
Scavo finale	332.2	-226.36	-102.86
Scavo finale	332	-246.25	-99.45
Scavo finale	331.8	-265.3	-95.27
Scavo finale	331.6	-283.38	-90.33
Scavo finale	331.4	-300.3	-84.63
Scavo finale	331.2	-315.94	-78.16
Scavo finale	331	-330.12	-70.94
Scavo finale	330.8	-341.11	-54.95
Scavo finale	330.6	-348.89	-38.9
Scavo finale	330.4	-353.45	-22.78
Scavo finale	330.2	-354.82	-6.84
Scavo finale	330	-353.27	7.75
Scavo finale	329.799	-349.1	20.83
Scavo finale	329.599	-342.6	32.48
Scavo finale	329.399	-334.05	42.76
Scavo finale	329.199	-323.7	51.76
Scavo finale	328.999	-311.79	59.54
Scavo finale	328.799	-298.56	66.16
Scavo finale	328.599	-284.22	71.7
Scavo finale	328.399	-268.98	76.23
Scavo finale	328.199	-253.01	79.79
Scavo finale	327.999	-236.52	82.45
Scavo finale	327.799	-219.67	84.27
Scavo finale	327.599	-202.61	85.28
Scavo finale	327.399	-185.5	85.55

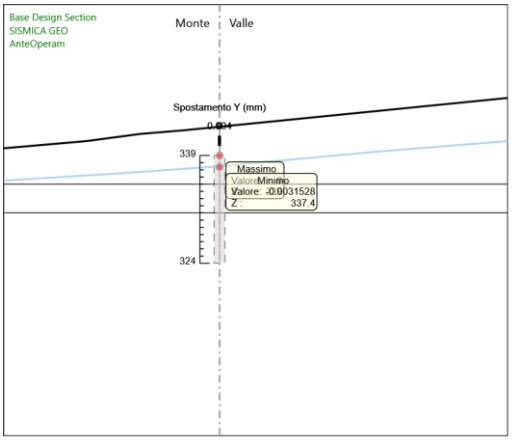
Design Assumption: SISMICA GEO	Risultati Paratia	Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Scavo finale	327.199	-168.47	85.12
Scavo finale	326.999	-151.67	84.02
Scavo finale	326.799	-135.21	82.29
Scavo finale	326.599	-119.21	79.97
Scavo finale	326.399	-103.79	77.08
Scavo finale	326.199	-89.06	73.65
Scavo finale	325.999	-75.12	69.7
Scavo finale	325.799	-62.07	65.25
Scavo finale	325.599	-50.01	60.32
Scavo finale	325.399	-39.02	54.92
Scavo finale	325.199	-29.21	49.05
Scavo finale	324.999	-20.66	42.73
Scavo finale	324.799	-13.47	35.97
Scavo finale	324.599	-7.72	28.76
Scavo finale	324.399	-3.5	21.11
Scavo finale	324.199	-0.89	13.02
Scavo finale	324	0	4.49

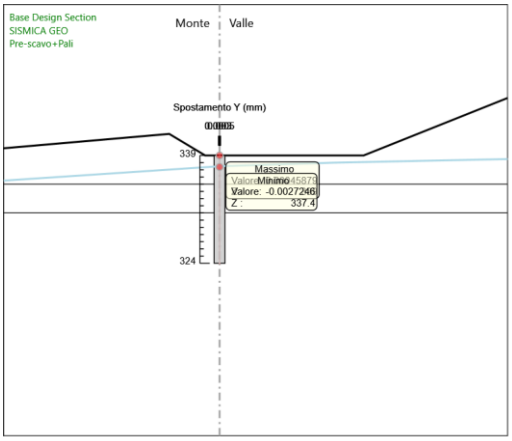
6.6.4. Tabella Risultati Paratia SISMICA GEO - Left Wall - Stage: Sisma

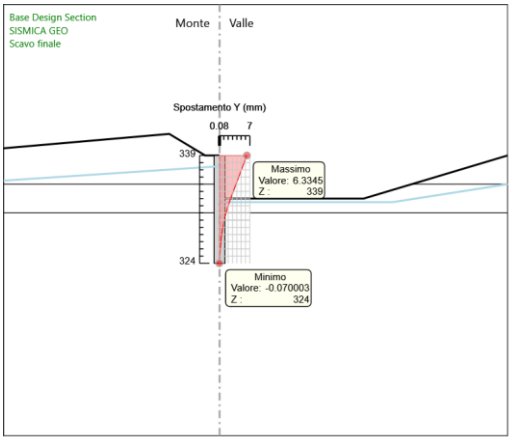
Design Assumption: SISMICA GEO	Risultati Paratia	Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Sisma	339	0	-1.58
Sisma	338.8	-0.32	-1.58
Sisma	338.6	-1.27	-4.75
Sisma	338.4	-2.85	-7.92
Sisma	338.2	-5.07	-11.09
Sisma	338	-7.92	-14.25
Sisma	337.8	-11.41	-17.42
Sisma	337.6	-15.52	-20.59
Sisma	337.4	-20.28	-23.76
Sisma	337.2	-25.67	-26.99
Sisma	337	-31.76	-30.41
Sisma	336.8	-38.57	-34.06
Sisma	336.6	-46.18	-38.07
Sisma	336.4	-54.68	-42.46
Sisma	336.2	-64.12	-47.22
Sisma	336	-74.59	-52.35
Sisma	335.8	-86.17	-57.86
Sisma	335.6	-98.91	-63.73
Sisma	335.4	-112.91	-69.98
Sisma	335.2	-128.23	-76.6
Sisma	335	-144.95	-83.59
Sisma	334.8	-163.48	-92.6
Sisma	334.6	-183.9	-102.1
Sisma	334.4	-206.31	-112.08
Sisma	334.2	-230.83	-122.56
Sisma	334	-257.53	-133.52
Sisma	333.8	-286.52	-144.97
Sisma	333.6	-317.9	-156.91
Sisma	333.4	-351.77	-169.33
Sisma	333.2	-388.24	-182.25
Sisma	333	-427.36	-195.62
Sisma	332.8	-467.25	-199.42
Sisma	332.6	-507.54	-201.49
Sisma	332.4	-547.91	-201.82
Sisma	332.2	-588.11	-201.03
Sisma	332	-628.06	-199.74
Sisma	331.8	-667.66	-197.96
Sisma	331.6	-706.81	-195.66
Sisma	331.4	-745.38	-192.85
Sisma	331.2	-783.28	-189.53
Sisma	331	-820.42	-185.68
Sisma	330.8	-851.68	-156.31
Sisma	330.6	-877.21	-127.66
Sisma	330.4	-897.16	-99.74
Sisma	330.2	-911.66	-72.5
Sisma	330	-920.84	-45.92
Sisma	329.799	-924.84	-19.98
Sisma	329.599	-923.77	5.34
Sisma	329.399	-917.76	30.09
Sisma	329.199	-906.95	54.05
Sisma	328.999	-891.5	77.24
Sisma	328.799	-871.56	99.68
Sisma	328.599	-847.29	121.39
Sisma	328.399	-818.8	142.41
Sisma	328.199	-786.24	162.76
Sisma	327.999	-749.74	182.46
Sisma	327.799	-709.43	201.55
Sisma	327.599	-665.43	220.04
Sisma	327.399	-618.3	235.66
Sisma	327.199	-568.79	247.52
Sisma	326.999	-517.72	255.34
Sisma	326.799	-465.87	259.25
Sisma	326.599	-413.97	259.36
Sisma	326.399	-362.82	255.77
Sisma	326.199	-313.11	248.57
Sisma	325.999	-265.5	238.01
Sisma	325.799	-220.46	225.21

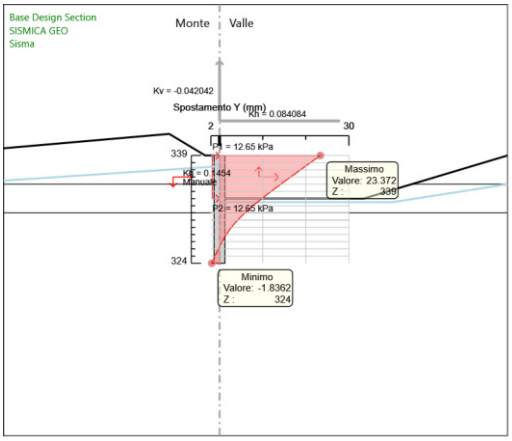
Design Assumption: SISMICA GEO	Risultati Paratia	Muro: LEFT	
Stage	**Z (m)**	**Momento (kN*m/m)**	**Taglio (kN/m)**
Sisma	325.599	-178.42	210.21
Sisma	325.399	-139.81	193.04
Sisma	325.199	-105.06	173.72
Sisma	324.999	-74.57	152.4
Sisma	324.799	-48.75	129.09
Sisma	324.599	-27.99	103.81
Sisma	324.399	-12.68	76.55
Sisma	324.199	-3.21	47.33
Sisma	324	0	16.14

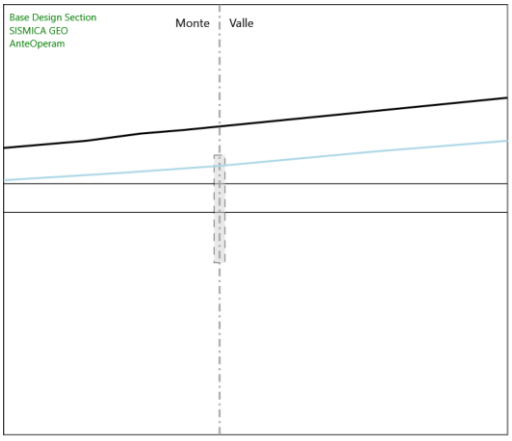
6.6.5. Tabella Grafici dei Risultati

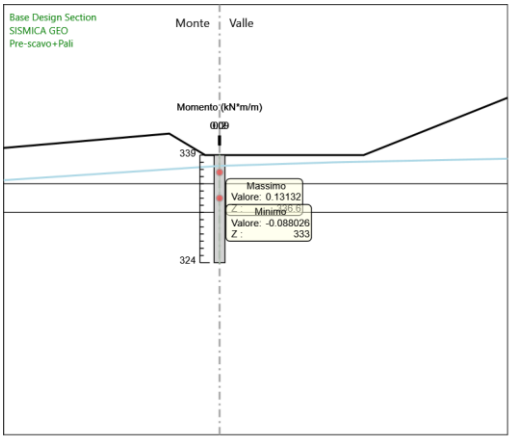


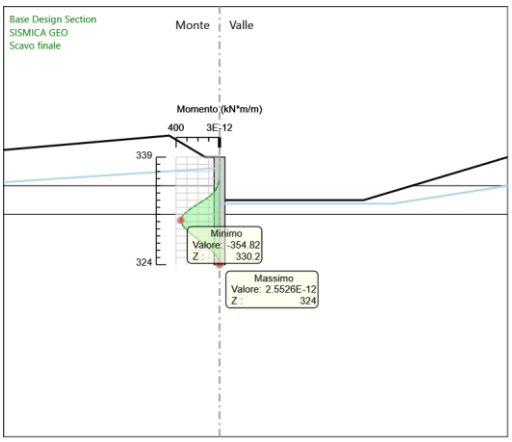


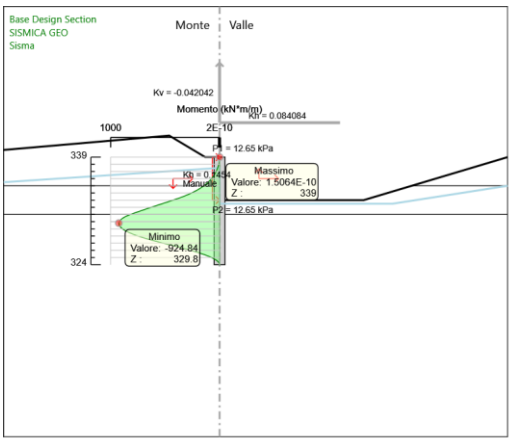


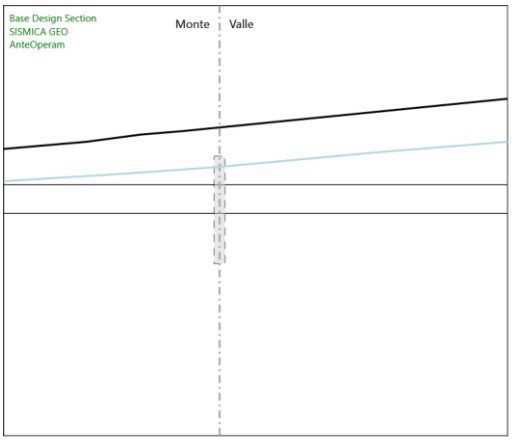


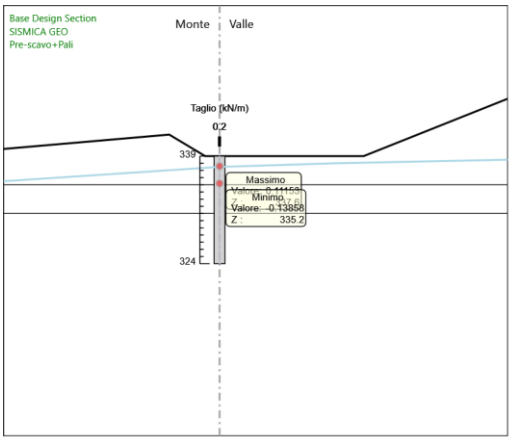


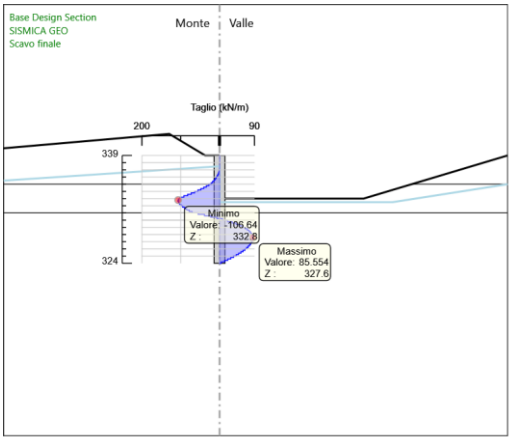


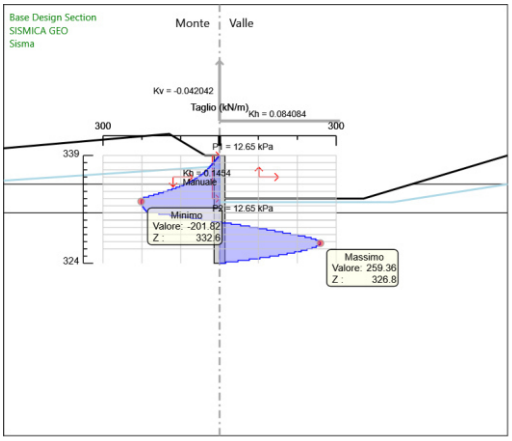












6.7.1. Riepilogo spinte

Design Assumption: SISMICA GEO Stage	Tipo Risultato: Riepilogo spinte Vera effettiva (kN/m)	Muro: Pressione neutra (kN/m)	LEFT Vera Totale (kN/m)	Lato Min ammissibile (kN/m)	LEFT Max ammissibile (kN/m)	Percentuale di resistenza massima	Vera / Attiva
AnteOperam	1281.1	910.5	2191.6	355.3	9234.3	13.87%	3.61
Pre-scavo+Pali	929.7	909.2	1838.9	108.7	6579.1	14.13%	8.55
Scavo finale	591.3	542.7	1134	233.8	7894.8	7.49%	2.53
Sisma	546.5	542.7	1089.1	233.8	7030.9	7.77%	2.34

Design Assumption: SI-SMICA GEO	Tipo Risultato: Riepilogo spinte	Muro:	LEFT	Lato	RIGHT		
Stage	Vera effettiva (kN/m)	Pressione neutra (kN/m)	Vera Totale (kN/m)	Min ammissibile (kN/m)	Max ammissibile (kN/m)	Percentuale di resistenza massima	Vera / Attiva
AnteOperam	1278.5	913	2191.6	435	10892.2	11.74%	2.94
Pre-scavo+Pali	928.1	910.7	1838.9	66.8	6572.9	14.12%	13.89
Scavo finale	698.3	435.7	1134	0	2985.8	23.39%	∞
Sisma	746.9	435.7	1182.6	0	2394.8	31.19%	∞

6.8. Risultati GLOBALE STATICA

6.8.1. Tabella Risultati Paratia GLOBALE STATICA - Left Wall - Stage: AnteOperam

Design Assumption: GLOBALE STATICA Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
AnteOperam	339	0	0
AnteOperam	338.8	0	0
AnteOperam	338.6	0	0
AnteOperam	338.4	0	0
AnteOperam	338.2	0	0
AnteOperam	338	0	0
AnteOperam	337.8	0	0
AnteOperam	337.6	0	0
AnteOperam	337.4	0	0
AnteOperam	337.2	0	0
AnteOperam	337	0	0
AnteOperam	336.8	0	0
AnteOperam	336.6	0	0
AnteOperam	336.4	0	0
AnteOperam	336.2	0	0
AnteOperam	336	0	0
AnteOperam	335.8	0	0
AnteOperam	335.6	0	0
AnteOperam	335.4	0	0
AnteOperam	335.2	0	0
AnteOperam	335	0	0
AnteOperam	334.8	0	0
AnteOperam	334.6	0	0
AnteOperam	334.4	0	0
AnteOperam	334.2	0	0
AnteOperam	334	0	0
AnteOperam	333.8	0	0
AnteOperam	333.6	0	0
AnteOperam	333.4	0	0
AnteOperam	333.2	0	0
AnteOperam	333	0	0
AnteOperam	332.8	0	0
AnteOperam	332.6	0	0
AnteOperam	332.4	0	0
AnteOperam	332.2	0	0
AnteOperam	332	0	0
AnteOperam	331.8	0	0
AnteOperam	331.6	0	0
AnteOperam	331.4	0	0
AnteOperam	331.2	0	0
AnteOperam	331	0	0
AnteOperam	330.8	0	0
AnteOperam	330.6	0	0
AnteOperam	330.4	0	0
AnteOperam	330.2	0	0
AnteOperam	330	0	0
AnteOperam	329.799	0	0
AnteOperam	329.599	0	0
AnteOperam	329.399	0	0
AnteOperam	329.199	0	0
AnteOperam	328.999	0	0
AnteOperam	328.799	0	0
AnteOperam	328.599	0	0
AnteOperam	328.399	0	0
AnteOperam	328.199	0	0
AnteOperam	327.999	0	0
AnteOperam	327.799	0	0
AnteOperam	327.599	0	0
AnteOperam	327.399	0	0
AnteOperam	327.199	0	0
AnteOperam	326.999	0	0
AnteOperam	326.799	0	0
AnteOperam	326.599	0	0
AnteOperam	326.399	0	0

Design Assumption: GLOBALE STATICA Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
AnteOperam	326.199	0	0
AnteOperam	325.999	0	0
AnteOperam	325.799	0	0
AnteOperam	325.599	0	0
AnteOperam	325.399	0	0
AnteOperam	325.199	0	0
AnteOperam	324.999	0	0
AnteOperam	324.799	0	0
AnteOperam	324.599	0	0
AnteOperam	324.399	0	0
AnteOperam	324.199	0	0
AnteOperam	324	0	0

6.8.2. Tabella Risultati Paratia GLOBALE STATICA - Left Wall - Stage: Pre-scavo+Pali

Design Assumption: GLOBALE STATICA	Risultati Paratia	Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Pre-scavo+Pali	339	0	0
Pre-scavo+Pali	338.8	0	0
Pre-scavo+Pali	338.6	0	0.02
Pre-scavo+Pali	338.4	0.01	0.04
Pre-scavo+Pali	338.2	0.02	0.05
Pre-scavo+Pali	338	0.03	0.07
Pre-scavo+Pali	337.8	0.05	0.08
Pre-scavo+Pali	337.6	0.07	0.1
Pre-scavo+Pali	337.4	0.09	0.11
Pre-scavo+Pali	337.2	0.11	0.09
Pre-scavo+Pali	337	0.12	0.06
Pre-scavo+Pali	336.8	0.13	0.04
Pre-scavo+Pali	336.6	0.13	0.01
Pre-scavo+Pali	336.4	0.13	-0.01
Pre-scavo+Pali	336.2	0.12	-0.03
Pre-scavo+Pali	336	0.11	-0.05
Pre-scavo+Pali	335.8	0.1	-0.07
Pre-scavo+Pali	335.6	0.08	-0.09
Pre-scavo+Pali	335.4	0.06	-0.11
Pre-scavo+Pali	335.2	0.04	-0.12
Pre-scavo+Pali	335	0.01	-0.14
Pre-scavo+Pali	334.8	-0.01	-0.12
Pre-scavo+Pali	334.6	-0.03	-0.1
Pre-scavo+Pali	334.4	-0.05	-0.08
Pre-scavo+Pali	334.2	-0.06	-0.06
Pre-scavo+Pali	334	-0.07	-0.05
Pre-scavo+Pali	333.8	-0.08	-0.04
Pre-scavo+Pali	333.6	-0.08	-0.03
Pre-scavo+Pali	333.4	-0.09	-0.02
Pre-scavo+Pali	333.2	-0.09	-0.01
Pre-scavo+Pali	333	-0.09	0
Pre-scavo+Pali	332.8	-0.09	0
Pre-scavo+Pali	332.6	-0.09	0.01
Pre-scavo+Pali	332.4	-0.08	0.01
Pre-scavo+Pali	332.2	-0.08	0.01
Pre-scavo+Pali	332	-0.08	0.02
Pre-scavo+Pali	331.8	-0.07	0.02
Pre-scavo+Pali	331.6	-0.07	0.02
Pre-scavo+Pali	331.4	-0.07	0.02
Pre-scavo+Pali	331.2	-0.06	0.03
Pre-scavo+Pali	331	-0.05	0.03
Pre-scavo+Pali	330.8	-0.05	0.03
Pre-scavo+Pali	330.6	-0.04	0.03
Pre-scavo+Pali	330.4	-0.04	0.02
Pre-scavo+Pali	330.2	-0.03	0.02
Pre-scavo+Pali	330	-0.03	0.02
Pre-scavo+Pali	329.799	-0.03	0.02
Pre-scavo+Pali	329.599	-0.02	0.02
Pre-scavo+Pali	329.399	-0.02	0.02
Pre-scavo+Pali	329.199	-0.02	0.02
Pre-scavo+Pali	328.999	-0.01	0.01
Pre-scavo+Pali	328.799	-0.01	0.01
Pre-scavo+Pali	328.599	-0.01	0.01
Pre-scavo+Pali	328.399	-0.01	0.01
Pre-scavo+Pali	328.199	0	0.01
Pre-scavo+Pali	327.999	0	0.01
Pre-scavo+Pali	327.799	0	0.01
Pre-scavo+Pali	327.599	0	0.01
Pre-scavo+Pali	327.399	0	0
Pre-scavo+Pali	327.199	0	0
Pre-scavo+Pali	326.999	0	0
Pre-scavo+Pali	326.799	0	0
Pre-scavo+Pali	326.599	0	0
Pre-scavo+Pali	326.399	0	0
Pre-scavo+Pali	326.199	0	0
Pre-scavo+Pali	325.999	0	0
Pre-scavo+Pali	325.799	0	0

Design Assumption: GLOBALE STATICA	Risultati Paratia	Muro: LEFT	
Stage	**Z (m)**	**Momento (kN*m/m)**	**Taglio (kN/m)**
Pre-scavo+Pali	325.599	0	0
Pre-scavo+Pali	325.399	0	0
Pre-scavo+Pali	325.199	0	0
Pre-scavo+Pali	324.999	0	0
Pre-scavo+Pali	324.799	0	0
Pre-scavo+Pali	324.599	0	0
Pre-scavo+Pali	324.399	0	0
Pre-scavo+Pali	324.199	0	0
Pre-scavo+Pali	324	0	0

6.8.3. Tabella Risultati Paratia GLOBALE STATICA - Left Wall - Stage: Scavo finale

Design Assumption: GLOBALE STATICA	Risultati Paratia	Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Scavo finale	339	0	0
Scavo finale	338.8	0	0
Scavo finale	338.8	0	0
Scavo finale	338.6	0	0
Scavo finale	338.6	0	0
Scavo finale	338.4	0	0
Scavo finale	338.4	0	0
Scavo finale	338.2	0	0
Scavo finale	338.2	0	0
Scavo finale	338	0	0
Scavo finale	338	0	0
Scavo finale	337.8	0	0
Scavo finale	337.8	0	0
Scavo finale	337.6	0	0
Scavo finale	337.6	0	0
Scavo finale	337.4	-0.02	-0.1
Scavo finale	337.2	-0.13	-0.55
Scavo finale	337	-0.41	-1.41
Scavo finale	336.8	-0.95	-2.68
Scavo finale	336.6	-1.82	-4.37
Scavo finale	336.4	-3.12	-6.48
Scavo finale	336.2	-4.92	-9.01
Scavo finale	336	-7.31	-11.95
Scavo finale	335.8	-10.37	-15.3
Scavo finale	335.6	-14.19	-19.08
Scavo finale	335.4	-18.84	-23.27
Scavo finale	335.2	-24.41	-27.87
Scavo finale	335	-30.99	-32.89
Scavo finale	334.8	-39.12	-40.6
Scavo finale	334.6	-48.89	-48.87
Scavo finale	334.4	-60.43	-57.71
Scavo finale	334.2	-73.85	-67.11
Scavo finale	334	-89.27	-77.07
Scavo finale	333.8	-106.79	-87.59
Scavo finale	333.6	-126.52	-98.68
Scavo finale	333.4	-148.59	-110.33
Scavo finale	333.2	-173.11	-122.55
Scavo finale	333	-200.17	-135.32
Scavo finale	332.8	-228.87	-143.45
Scavo finale	332.6	-258.87	-150.02
Scavo finale	332.4	-289.88	-155.04
Scavo finale	332.2	-321.67	-158.99
Scavo finale	332	-354.15	-162.39
Scavo finale	331.8	-387.2	-165.25
Scavo finale	331.6	-420.73	-167.56
Scavo finale	331.4	-454.6	-169.32
Scavo finale	331.2	-488.7	-170.54
Scavo finale	331	-522.95	-171.21
Scavo finale	330.8	-552.29	-146.7
Scavo finale	330.6	-576.89	-123.04
Scavo finale	330.4	-596.94	-100.23
Scavo finale	330.2	-612.59	-78.24
Scavo finale	330	-624	-57.06
Scavo finale	329.799	-631.34	-36.67
Scavo finale	329.599	-634.75	-17.06
Scavo finale	329.399	-634.39	1.81
Scavo finale	329.199	-630.4	19.94
Scavo finale	328.999	-622.93	37.36
Scavo finale	328.799	-612.11	54.1
Scavo finale	328.599	-598.08	70.16
Scavo finale	328.399	-580.96	85.58
Scavo finale	328.199	-560.88	100.37
Scavo finale	327.999	-537.97	114.55
Scavo finale	327.799	-512.34	128.14
Scavo finale	327.599	-484.1	141.16
Scavo finale	327.399	-453.38	153.63
Scavo finale	327.199	-420.27	165.56

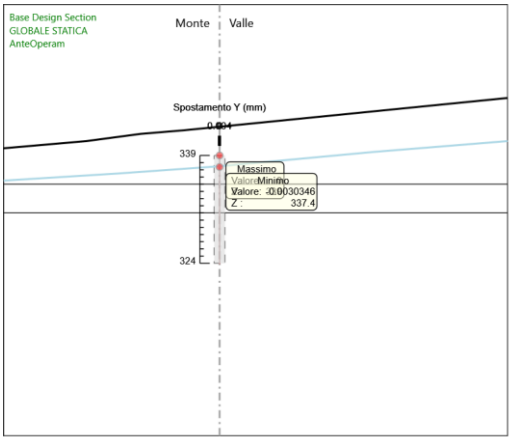
Design Assumption: GLOBALE STATICA Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Scavo finale	326.999	-385.28	174.95
Scavo finale	326.799	-349.02	181.29
Scavo finale	326.599	-312.07	184.66
Scavo finale	326.399	-275.04	185.15
Scavo finale	326.199	-238.48	182.81
Scavo finale	325.999	-202.93	177.72
Scavo finale	325.799	-168.95	169.91
Scavo finale	325.599	-137.06	159.45
Scavo finale	325.399	-107.66	147.02
Scavo finale	325.199	-81.09	132.84
Scavo finale	324.999	-57.7	116.9
Scavo finale	324.799	-37.83	99.34
Scavo finale	324.599	-21.8	80.14
Scavo finale	324.399	-9.93	59.33
Scavo finale	324.199	-2.56	36.89
Scavo finale	324	0	12.83

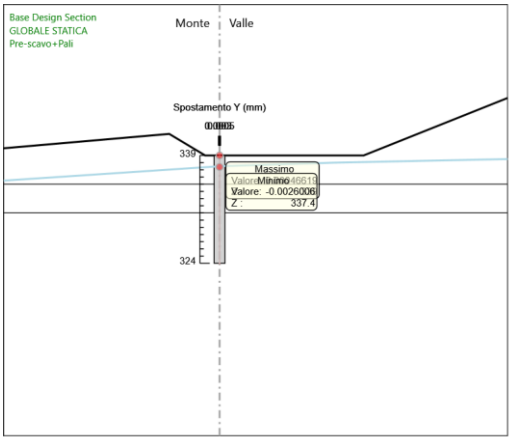
6.8.4. Tabella Risultati Paratia GLOBALE STATICA - Left Wall - Stage: Sisma

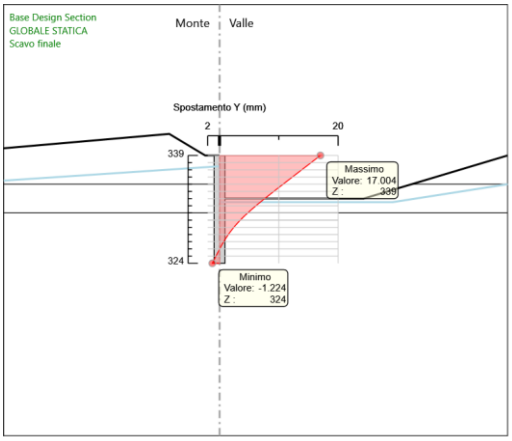
Design Assumption: GLOBALE STATICA	Risultati Paratia	Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Sisma	339	0	0
Sisma	338.8	0	0
Sisma	338.8	0	0
Sisma	338.6	0	0
Sisma	338.6	0	0
Sisma	338.4	0	0
Sisma	338.4	0	0
Sisma	338.2	0	0
Sisma	338.2	0	0
Sisma	338	0	0
Sisma	338	0	0
Sisma	337.8	0	0
Sisma	337.8	0	0
Sisma	337.6	0	0
Sisma	337.6	0	0
Sisma	337.4	-0.02	-0.1
Sisma	337.2	-0.13	-0.55
Sisma	337	-0.41	-1.41
Sisma	336.8	-0.95	-2.68
Sisma	336.6	-1.82	-4.37
Sisma	336.4	-3.12	-6.48
Sisma	336.2	-4.92	-9.01
Sisma	336	-7.31	-11.95
Sisma	335.8	-10.37	-15.3
Sisma	335.6	-14.19	-19.08
Sisma	335.4	-18.84	-23.27
Sisma	335.2	-24.41	-27.87
Sisma	335	-30.99	-32.89
Sisma	334.8	-39.12	-40.6
Sisma	334.6	-48.89	-48.87
Sisma	334.4	-60.43	-57.71
Sisma	334.2	-73.85	-67.11
Sisma	334	-89.27	-77.07
Sisma	333.8	-106.79	-87.59
Sisma	333.6	-126.52	-98.68
Sisma	333.4	-148.59	-110.33
Sisma	333.2	-173.11	-122.55
Sisma	333	-200.17	-135.32
Sisma	332.8	-228.87	-143.45
Sisma	332.6	-258.87	-150.02
Sisma	332.4	-289.88	-155.04
Sisma	332.2	-321.67	-158.99
Sisma	332	-354.15	-162.39
Sisma	331.8	-387.2	-165.25
Sisma	331.6	-420.73	-167.56
Sisma	331.4	-454.6	-169.32
Sisma	331.2	-488.7	-170.54
Sisma	331	-522.95	-171.21
Sisma	330.8	-552.29	-146.7
Sisma	330.6	-576.89	-123.04
Sisma	330.4	-596.94	-100.23
Sisma	330.2	-612.59	-78.24
Sisma	330	-624	-57.06
Sisma	329.799	-631.34	-36.67
Sisma	329.599	-634.75	-17.06
Sisma	329.399	-634.39	1.81
Sisma	329.199	-630.4	19.94
Sisma	328.999	-622.93	37.36
Sisma	328.799	-612.11	54.1
Sisma	328.599	-598.07	70.16
Sisma	328.399	-580.96	85.58
Sisma	328.199	-560.87	100.37
Sisma	327.999	-537.96	114.55
Sisma	327.799	-512.33	128.14
Sisma	327.599	-484.1	141.16
Sisma	327.399	-453.38	153.63
Sisma	327.199	-420.26	165.56

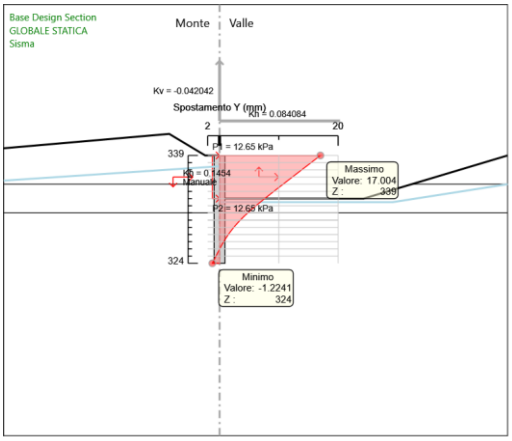
Design Assumption: GLOBALE STATICA Risultati Paratia		Muro: LEFT	
Stage	**Z (m)**	**Momento (kN*m/m)**	**Taglio (kN/m)**
Sisma	326.999	-385.27	174.95
Sisma	326.799	-349.02	181.29
Sisma	326.599	-312.07	184.66
Sisma	326.399	-275.04	185.15
Sisma	326.199	-238.47	182.81
Sisma	325.999	-202.93	177.71
Sisma	325.799	-168.95	169.91
Sisma	325.599	-137.06	159.45
Sisma	325.399	-107.66	147.02
Sisma	325.199	-81.09	132.83
Sisma	324.999	-57.7	116.91
Sisma	324.799	-37.83	99.34
Sisma	324.599	-21.8	80.15
Sisma	324.399	-9.93	59.33
Sisma	324.199	-2.56	36.89
Sisma	324	0	12.83

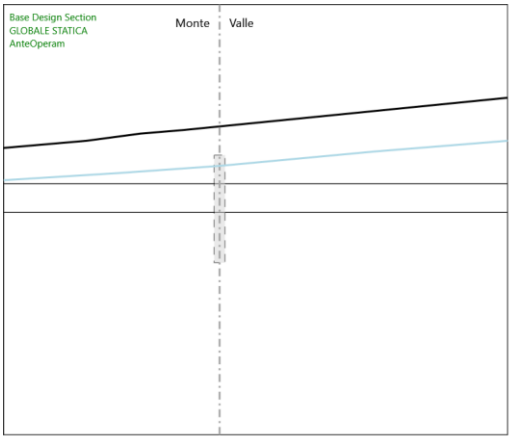
6.8.5. Tabella Grafici dei Risultati

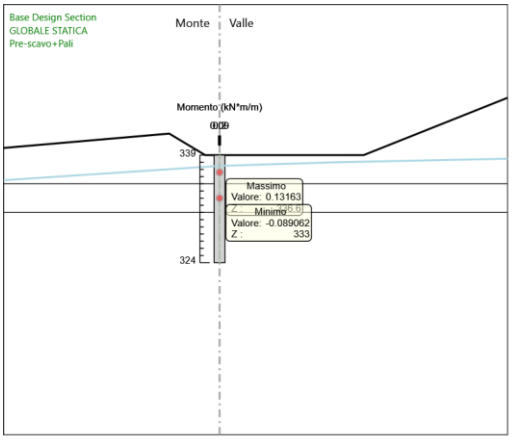


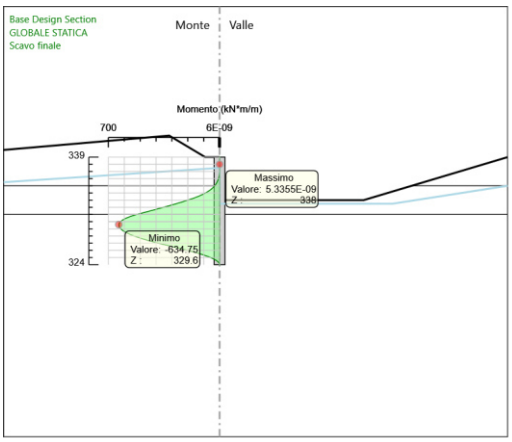


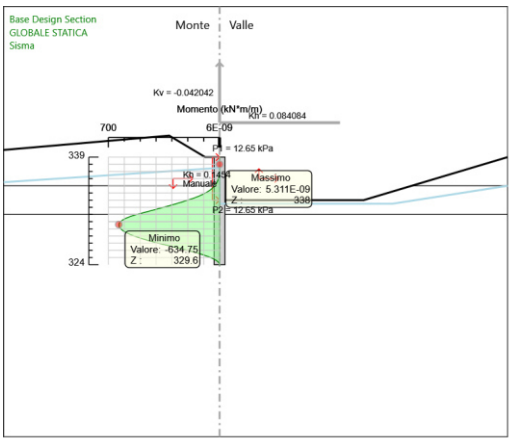


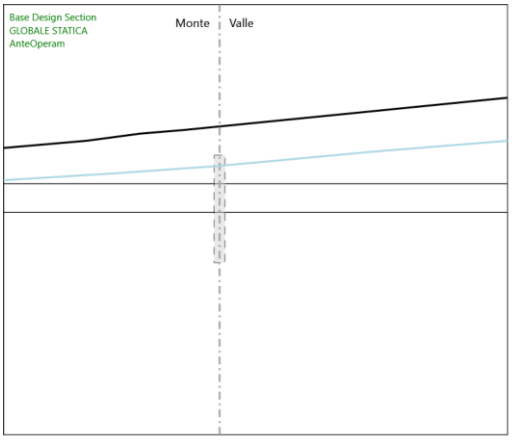


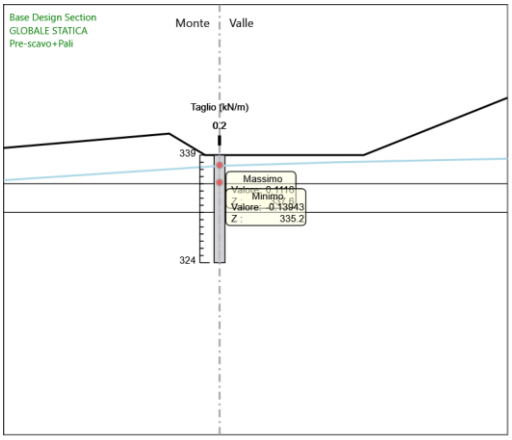


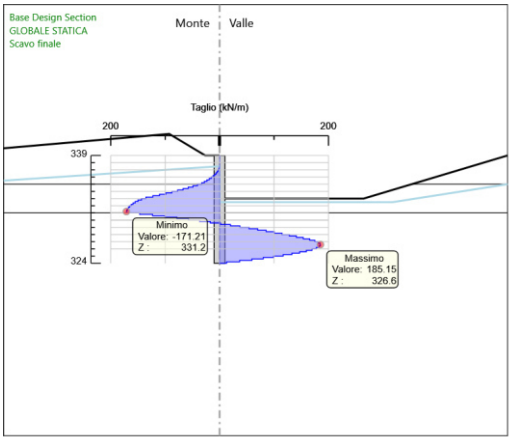


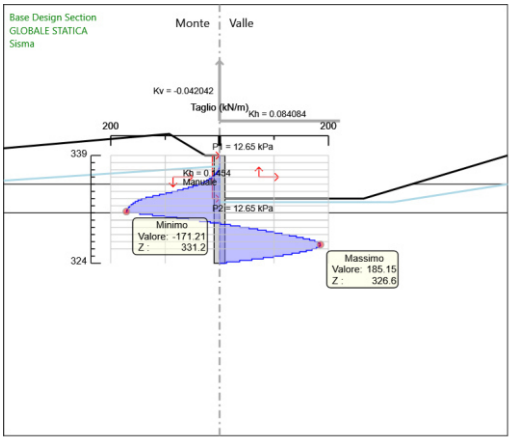

Base Design Section
GLOBALE STATICA
Scavo finale
Monte
Valle
Momento (kN*m/m)
700
6E-09
339
324
Massimo
Valore: 5.3355E-09
Z : 338
Minimo
Valore: -634.75
Z : 329.6


Base Design Section
GLOBALE STATICA
Sisma
Monte
Valle
Kv = -0.042042
Momento (kN*m/m)
Kh = 0.084084
700
6E-09
339
324
P1 = 12.65 kPa
Kb = 0.1454
Manuale
P2 = 12.65 kPa
Massimo
Valore: 5.311E-09
Z : 338
Minimo
Valore: -634.75
Z : 329.6


Base Design Section
GLOBALE STATICA
AnteOperam
Monte
Valle


Base Design Section
GLOBALE STATICA
Pre-scavo+Pali
Monte
Valle
Taglio (kN/m)
0.2
339
324
Massimo
Minimo
Valore: 0.13943
Z : 335.2


Base Design Section
GLOBALE STATICA
Scavo finale
Monte
Valle
Taglio (kN/m)
200
200
339
324
Minimo
Valore: -171.21
Z : 331.2
Massimo
Valore: 185.15
Z : 326.6


Base Design Section
GLOBALE STATICA
Sisma
Monte
Valle
Kv = -0.042042
Taglio (kN/m)
Kh = 0.084084
200
200
339
324
P1 = 12.65 kPa
Kb = 0.1454
Manuale
P2 = 12.65 kPa
Minimo
Valore: -171.21
Z : 331.2
Massimo
Valore: 185.15
Z : 326.6

6.9. Risultati GLOBALE SISMICA

6.9.1. Tabella Risultati Paratia GLOBALE SISMICA - Left Wall - Stage: AnteOperam

Design Assumption: GLOBALE SISMICA	Risultati Paratia	Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
AnteOperam	339	0	0
AnteOperam	338.8	0	0
AnteOperam	338.6	0	0
AnteOperam	338.4	0	0
AnteOperam	338.2	0	0
AnteOperam	338	0	0
AnteOperam	337.8	0	0
AnteOperam	337.6	0	0
AnteOperam	337.4	0	0
AnteOperam	337.2	0	0
AnteOperam	337	0	0
AnteOperam	336.8	0	0
AnteOperam	336.6	0	0
AnteOperam	336.4	0	0
AnteOperam	336.2	0	0
AnteOperam	336	0	0
AnteOperam	335.8	0	0
AnteOperam	335.6	0	0
AnteOperam	335.4	0	0
AnteOperam	335.2	0	0
AnteOperam	335	0	0
AnteOperam	334.8	0	0
AnteOperam	334.6	0	0
AnteOperam	334.4	0	0
AnteOperam	334.2	0	0
AnteOperam	334	0	0
AnteOperam	333.8	0	0
AnteOperam	333.6	0	0
AnteOperam	333.4	0	0
AnteOperam	333.2	0	0
AnteOperam	333	0	0
AnteOperam	332.8	0	0
AnteOperam	332.6	0	0
AnteOperam	332.4	0	0
AnteOperam	332.2	0	0
AnteOperam	332	0	0
AnteOperam	331.8	0	0
AnteOperam	331.6	0	0
AnteOperam	331.4	0	0
AnteOperam	331.2	0	0
AnteOperam	331	0	0
AnteOperam	330.8	0	0
AnteOperam	330.6	0	0
AnteOperam	330.4	0	0
AnteOperam	330.2	0	0
AnteOperam	330	0	0
AnteOperam	329.799	0	0
AnteOperam	329.599	0	0
AnteOperam	329.399	0	0
AnteOperam	329.199	0	0
AnteOperam	328.999	0	0
AnteOperam	328.799	0	0
AnteOperam	328.599	0	0
AnteOperam	328.399	0	0
AnteOperam	328.199	0	0
AnteOperam	327.999	0	0
AnteOperam	327.799	0	0
AnteOperam	327.599	0	0
AnteOperam	327.399	0	0
AnteOperam	327.199	0	0
AnteOperam	326.999	0	0
AnteOperam	326.799	0	0
AnteOperam	326.599	0	0
AnteOperam	326.399	0	0

Design Assumption: GLOBALE SISMICA Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
AnteOperam	326.199	0	0
AnteOperam	325.999	0	0
AnteOperam	325.799	0	0
AnteOperam	325.599	0	0
AnteOperam	325.399	0	0
AnteOperam	325.199	0	0
AnteOperam	324.999	0	0
AnteOperam	324.799	0	0
AnteOperam	324.599	0	0
AnteOperam	324.399	0	0
AnteOperam	324.199	0	0
AnteOperam	324	0	0

6.9.2. Tabella Risultati Paratia GLOBALE SISMICA - Left Wall - Stage: Pre-scavo+Pali

Design Assumption: GLOBALE SISMICA	Risultati Paratia	Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Pre-scavo+Pali	339	0	0
Pre-scavo+Pali	338.8	0	0
Pre-scavo+Pali	338.6	0	0.02
Pre-scavo+Pali	338.4	0.01	0.04
Pre-scavo+Pali	338.2	0.02	0.05
Pre-scavo+Pali	338	0.03	0.07
Pre-scavo+Pali	337.8	0.05	0.08
Pre-scavo+Pali	337.6	0.07	0.1
Pre-scavo+Pali	337.4	0.09	0.11
Pre-scavo+Pali	337.2	0.11	0.09
Pre-scavo+Pali	337	0.12	0.06
Pre-scavo+Pali	336.8	0.13	0.04
Pre-scavo+Pali	336.6	0.13	0.01
Pre-scavo+Pali	336.4	0.13	-0.01
Pre-scavo+Pali	336.2	0.12	-0.03
Pre-scavo+Pali	336	0.11	-0.05
Pre-scavo+Pali	335.8	0.1	-0.07
Pre-scavo+Pali	335.6	0.08	-0.09
Pre-scavo+Pali	335.4	0.06	-0.11
Pre-scavo+Pali	335.2	0.04	-0.12
Pre-scavo+Pali	335	0.01	-0.14
Pre-scavo+Pali	334.8	-0.01	-0.12
Pre-scavo+Pali	334.6	-0.03	-0.1
Pre-scavo+Pali	334.4	-0.05	-0.08
Pre-scavo+Pali	334.2	-0.06	-0.06
Pre-scavo+Pali	334	-0.07	-0.05
Pre-scavo+Pali	333.8	-0.08	-0.04
Pre-scavo+Pali	333.6	-0.08	-0.03
Pre-scavo+Pali	333.4	-0.09	-0.02
Pre-scavo+Pali	333.2	-0.09	-0.01
Pre-scavo+Pali	333	-0.09	0
Pre-scavo+Pali	332.8	-0.09	0
Pre-scavo+Pali	332.6	-0.09	0.01
Pre-scavo+Pali	332.4	-0.08	0.01
Pre-scavo+Pali	332.2	-0.08	0.01
Pre-scavo+Pali	332	-0.08	0.02
Pre-scavo+Pali	331.8	-0.07	0.02
Pre-scavo+Pali	331.6	-0.07	0.02
Pre-scavo+Pali	331.4	-0.07	0.02
Pre-scavo+Pali	331.2	-0.06	0.03
Pre-scavo+Pali	331	-0.05	0.03
Pre-scavo+Pali	330.8	-0.05	0.03
Pre-scavo+Pali	330.6	-0.04	0.03
Pre-scavo+Pali	330.4	-0.04	0.02
Pre-scavo+Pali	330.2	-0.03	0.02
Pre-scavo+Pali	330	-0.03	0.02
Pre-scavo+Pali	329.799	-0.03	0.02
Pre-scavo+Pali	329.599	-0.02	0.02
Pre-scavo+Pali	329.399	-0.02	0.02
Pre-scavo+Pali	329.199	-0.02	0.02
Pre-scavo+Pali	328.999	-0.01	0.01
Pre-scavo+Pali	328.799	-0.01	0.01
Pre-scavo+Pali	328.599	-0.01	0.01
Pre-scavo+Pali	328.399	-0.01	0.01
Pre-scavo+Pali	328.199	0	0.01
Pre-scavo+Pali	327.999	0	0.01
Pre-scavo+Pali	327.799	0	0.01
Pre-scavo+Pali	327.599	0	0.01
Pre-scavo+Pali	327.399	0	0
Pre-scavo+Pali	327.199	0	0
Pre-scavo+Pali	326.999	0	0
Pre-scavo+Pali	326.799	0	0
Pre-scavo+Pali	326.599	0	0
Pre-scavo+Pali	326.399	0	0
Pre-scavo+Pali	326.199	0	0
Pre-scavo+Pali	325.999	0	0
Pre-scavo+Pali	325.799	0	0

Design Assumption: GLOBALE SISMICA Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Pre-scavo+Pali	325.599	0	0
Pre-scavo+Pali	325.399	0	0
Pre-scavo+Pali	325.199	0	0
Pre-scavo+Pali	324.999	0	0
Pre-scavo+Pali	324.799	0	0
Pre-scavo+Pali	324.599	0	0
Pre-scavo+Pali	324.399	0	0
Pre-scavo+Pali	324.199	0	0
Pre-scavo+Pali	324	0	0

6.9.3. Tabella Risultati Paratia GLOBALE SISMICA - Left Wall - Stage: Scavo finale

Design Assumption: GLOBALE SISMICA	Risultati Paratia	Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Scavo finale	339	0	0
Scavo finale	338.8	0	0
Scavo finale	338.8	0	0
Scavo finale	338.6	0	0
Scavo finale	338.6	0	0
Scavo finale	338.4	0	0
Scavo finale	338.4	0	0
Scavo finale	338.2	0	0
Scavo finale	338.2	0	0
Scavo finale	338	0	0
Scavo finale	338	0	0
Scavo finale	337.8	0	0
Scavo finale	337.8	0	0
Scavo finale	337.6	0	0
Scavo finale	337.6	0	0
Scavo finale	337.4	-0.02	-0.1
Scavo finale	337.2	-0.13	-0.55
Scavo finale	337	-0.41	-1.41
Scavo finale	336.8	-0.95	-2.68
Scavo finale	336.6	-1.82	-4.37
Scavo finale	336.4	-3.12	-6.48
Scavo finale	336.2	-4.92	-9.01
Scavo finale	336	-7.31	-11.95
Scavo finale	335.8	-10.37	-15.3
Scavo finale	335.6	-14.19	-19.08
Scavo finale	335.4	-18.84	-23.27
Scavo finale	335.2	-24.41	-27.87
Scavo finale	335	-30.99	-32.89
Scavo finale	334.8	-39.12	-40.6
Scavo finale	334.6	-48.89	-48.87
Scavo finale	334.4	-60.43	-57.71
Scavo finale	334.2	-73.85	-67.11
Scavo finale	334	-89.27	-77.07
Scavo finale	333.8	-106.79	-87.59
Scavo finale	333.6	-126.52	-98.68
Scavo finale	333.4	-148.59	-110.33
Scavo finale	333.2	-173.11	-122.55
Scavo finale	333	-200.17	-135.32
Scavo finale	332.8	-228.87	-143.45
Scavo finale	332.6	-258.87	-150.02
Scavo finale	332.4	-289.88	-155.04
Scavo finale	332.2	-321.67	-158.99
Scavo finale	332	-354.15	-162.39
Scavo finale	331.8	-387.2	-165.25
Scavo finale	331.6	-420.73	-167.56
Scavo finale	331.4	-454.6	-169.32
Scavo finale	331.2	-488.7	-170.54
Scavo finale	331	-522.95	-171.21
Scavo finale	330.8	-552.29	-146.7
Scavo finale	330.6	-576.89	-123.04
Scavo finale	330.4	-596.94	-100.23
Scavo finale	330.2	-612.59	-78.24
Scavo finale	330	-624	-57.06
Scavo finale	329.799	-631.34	-36.67
Scavo finale	329.599	-634.75	-17.06
Scavo finale	329.399	-634.39	1.81
Scavo finale	329.199	-630.4	19.94
Scavo finale	328.999	-622.93	37.36
Scavo finale	328.799	-612.11	54.1
Scavo finale	328.599	-598.08	70.16
Scavo finale	328.399	-580.96	85.58
Scavo finale	328.199	-560.88	100.37
Scavo finale	327.999	-537.97	114.55
Scavo finale	327.799	-512.34	128.14
Scavo finale	327.599	-484.1	141.16
Scavo finale	327.399	-453.38	153.63
Scavo finale	327.199	-420.27	165.56

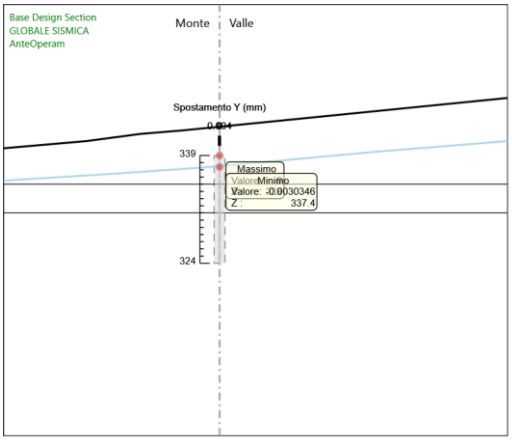
Design Assumption: GLOBALE SISMICA Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Scavo finale	326.999	-385.28	174.95
Scavo finale	326.799	-349.02	181.29
Scavo finale	326.599	-312.07	184.66
Scavo finale	326.399	-275.04	185.15
Scavo finale	326.199	-238.48	182.81
Scavo finale	325.999	-202.93	177.72
Scavo finale	325.799	-168.95	169.91
Scavo finale	325.599	-137.06	159.45
Scavo finale	325.399	-107.66	147.02
Scavo finale	325.199	-81.09	132.84
Scavo finale	324.999	-57.7	116.9
Scavo finale	324.799	-37.83	99.34
Scavo finale	324.599	-21.8	80.14
Scavo finale	324.399	-9.93	59.33
Scavo finale	324.199	-2.56	36.89
Scavo finale	324	0	12.83

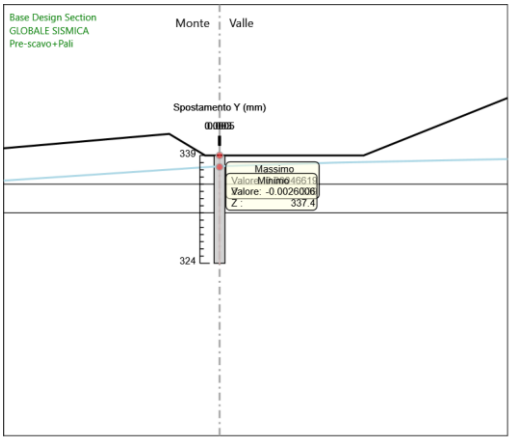
6.9.4. Tabella Risultati Paratia GLOBALE SISMICA - Left Wall - Stage: Sisma

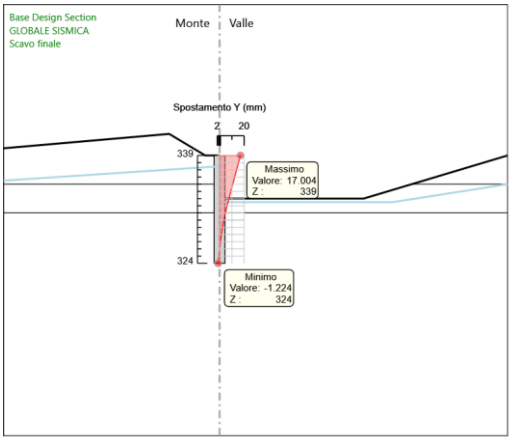
Design Assumption: GLOBALE SISMICA	Risultati Paratia	Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Sisma	339	0	-1.58
Sisma	338.8	-0.32	-1.58
Sisma	338.6	-1.27	-4.75
Sisma	338.4	-2.85	-7.92
Sisma	338.2	-5.07	-11.09
Sisma	338	-7.92	-14.25
Sisma	337.8	-11.41	-17.42
Sisma	337.6	-15.52	-20.59
Sisma	337.4	-20.3	-23.86
Sisma	337.2	-25.79	-27.47
Sisma	337	-32.09	-31.5
Sisma	336.8	-39.28	-35.94
Sisma	336.6	-47.44	-40.8
Sisma	336.4	-56.66	-46.08
Sisma	336.2	-67.01	-51.77
Sisma	336	-78.59	-57.88
Sisma	335.8	-91.47	-64.4
Sisma	335.6	-105.74	-71.35
Sisma	335.4	-121.48	-78.7
Sisma	335.2	-138.78	-86.47
Sisma	335	-157.71	-94.66
Sisma	334.8	-178.83	-105.54
Sisma	334.6	-202.22	-116.98
Sisma	334.4	-228.02	-128.98
Sisma	334.2	-256.33	-141.55
Sisma	334	-287.26	-154.68
Sisma	333.8	-320.94	-168.37
Sisma	333.6	-357.46	-182.63
Sisma	333.4	-396.95	-197.45
Sisma	333.2	-439.54	-212.83
Sisma	333	-485.29	-228.74
Sisma	332.8	-532.74	-237.24
Sisma	332.6	-581.66	-244.6
Sisma	332.4	-631.82	-250.82
Sisma	332.2	-683.09	-256.32
Sisma	332	-735.39	-261.51
Sisma	331.8	-788.66	-266.39
Sisma	331.6	-842.88	-270.94
Sisma	331.4	-897.92	-275.18
Sisma	331.2	-953.73	-279.09
Sisma	331	-1010.27	-282.67
Sisma	330.8	-1061.47	-256.03
Sisma	330.6	-1107.26	-228.95
Sisma	330.4	-1147.54	-201.39
Sisma	330.2	-1182.2	-173.32
Sisma	330	-1211.15	-144.74
Sisma	329.799	-1234.29	-115.62
Sisma	329.599	-1251.48	-85.95
Sisma	329.399	-1262.62	-55.73
Sisma	329.199	-1267.61	-24.95
Sisma	328.999	-1266.33	6.39
Sisma	328.799	-1258.67	38.31
Sisma	328.599	-1244.51	70.8
Sisma	328.399	-1223.74	103.87
Sisma	328.199	-1196.22	137.52
Sisma	327.999	-1161.87	171.75
Sisma	327.799	-1120.56	206.57
Sisma	327.599	-1072.16	241.97
Sisma	327.399	-1016.75	277.08
Sisma	327.199	-955.01	308.66
Sisma	326.999	-887.67	336.74
Sisma	326.799	-815.39	361.36
Sisma	326.599	-738.85	382.55
Sisma	326.399	-658.78	400.34
Sisma	326.199	-575.83	414.74
Sisma	325.999	-491.29	422.7
Sisma	325.799	-408.77	412.58

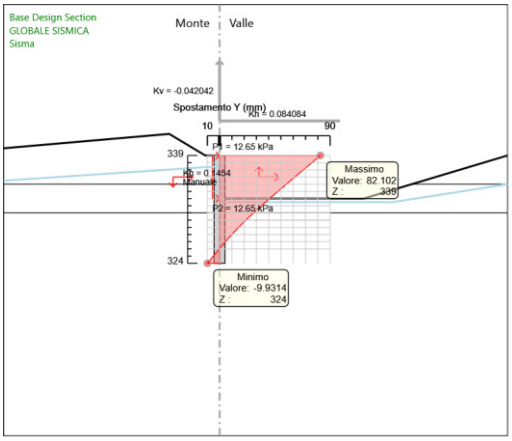
Design Assumption: GLOBALE SISMICA Risultati Paratia		Muro: LEFT	
Stage	**Z (m)**	**Momento (kN*m/m)**	**Taglio (kN/m)**
Sisma	325.599	-331.27	387.54
Sisma	325.399	-259.95	356.56
Sisma	325.199	-195.66	321.47
Sisma	324.999	-139.12	282.56
Sisma	324.799	-91.16	239.83
Sisma	324.599	-52.5	193.29
Sisma	324.399	-23.91	142.95
Sisma	324.199	-6.15	88.81
Sisma	324	0	30.86

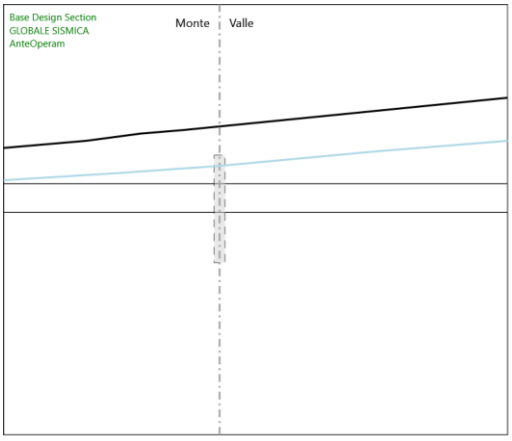
6.9.5. Tabella Grafici dei Risultati

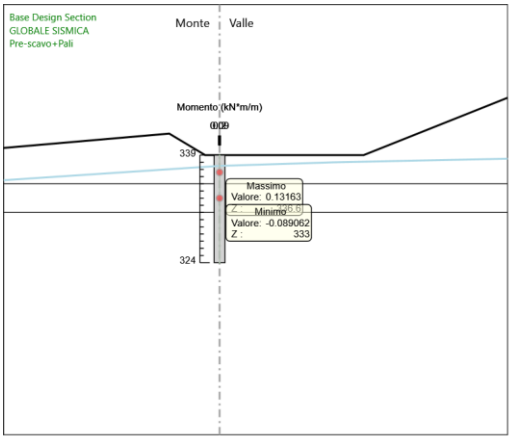


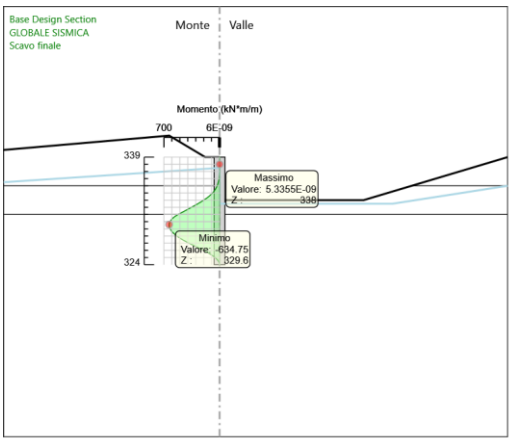


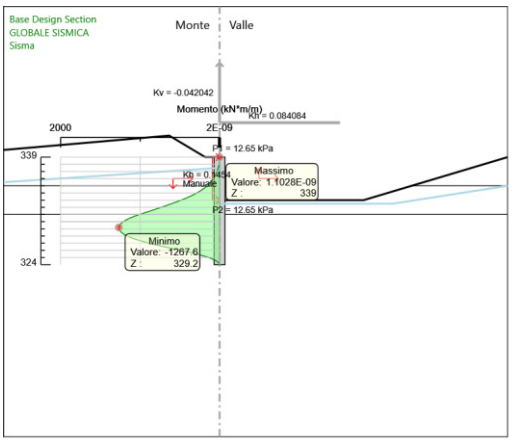


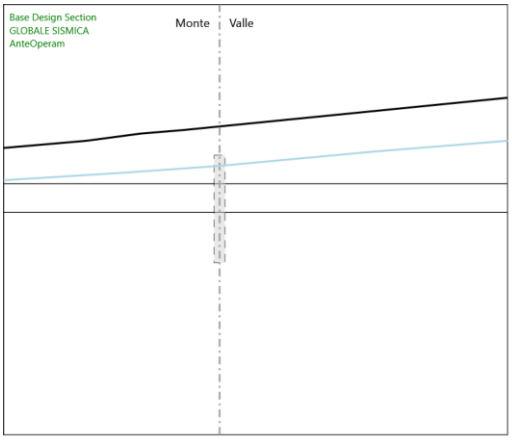


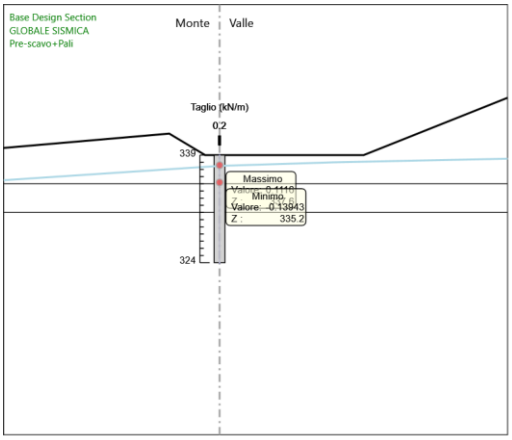


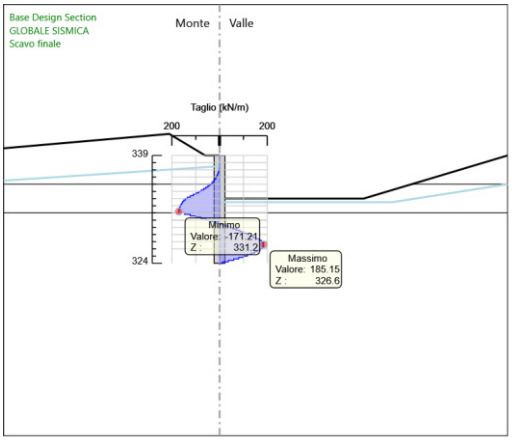


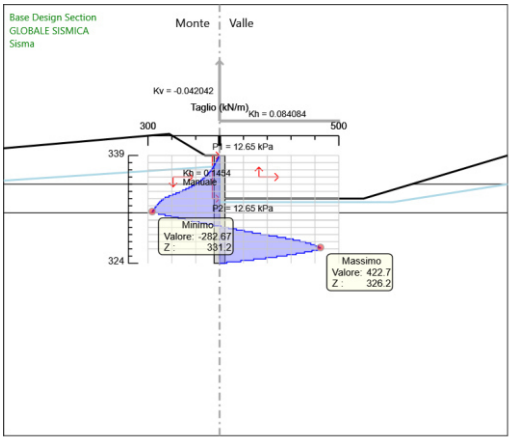

Base Design Section
GLOBALE SISMICA
Scavo finale
Monte
Valle
Momento (kN*m/m)
700
6E-09
339
324
Massimo
Valore: 5.3355E-09
Z : 338
Minimo
Valore: -634.75
Z : 329.6


Base Design Section
GLOBALE SISMICA
Sisma
Monte
Valle
Kv = -0.042042
Momento (kN*m/m)
Kh = 0.084084
2000
2E-09
339
324
P1 = 12.65 kPa
Kb = 0.1454
Manuale
P2 = 12.65 kPa
Massimo
Valore: 1.1028E-09
Z : 339
Minimo
Valore: -1267.6
Z : 329.2


Base Design Section
GLOBALE SISMICA
AnteOperam
Monte
Valle

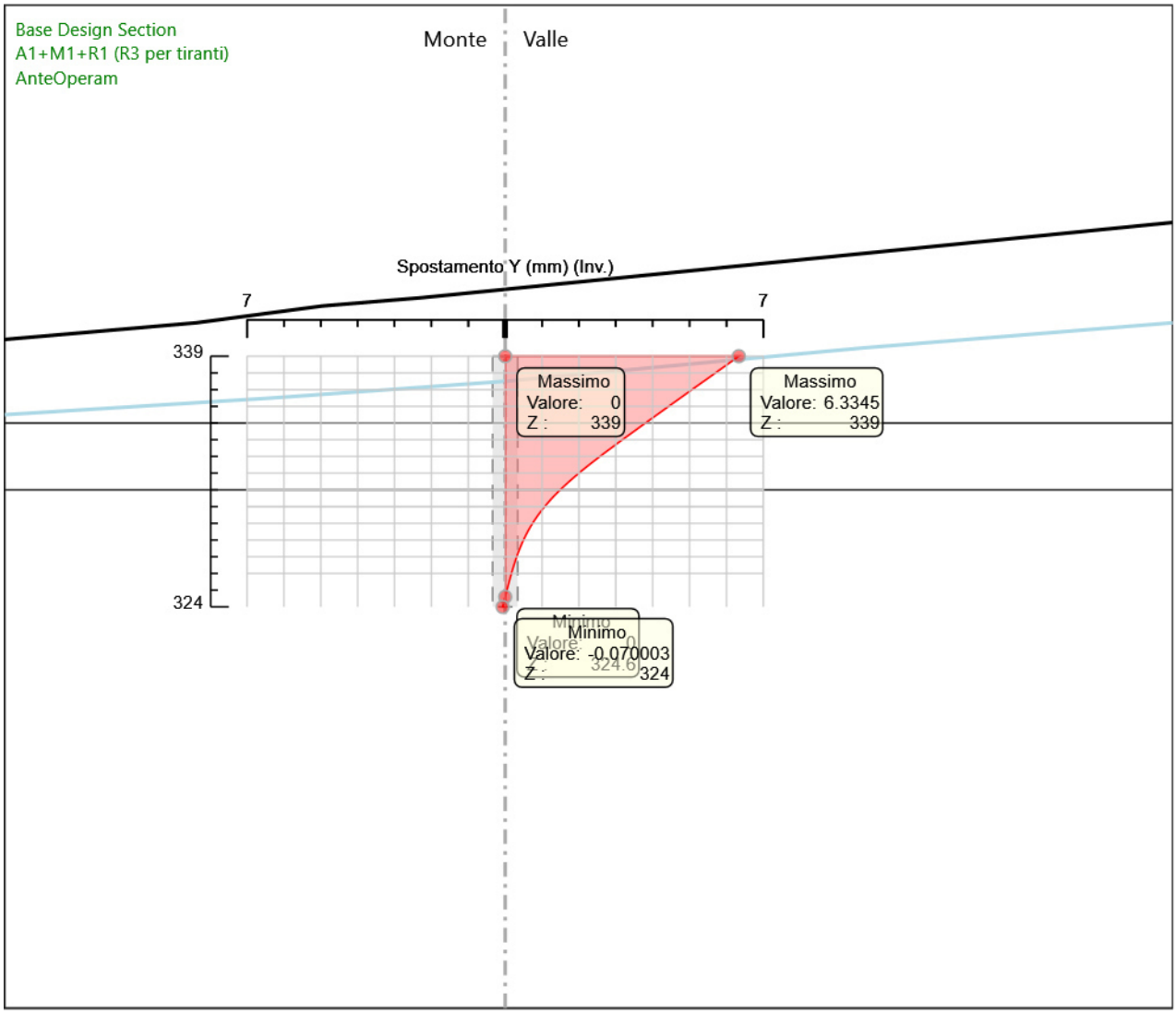

Base Design Section
GLOBALE SISMICA
Pre-scavo+Pali
Monte
Valle
Taglio (kN/m)
0.2
339
324
Massimo
Minimo
Valore: 0.13943
Z : 335.2


Base Design Section
GLOBALE SISMICA
Scavo finale
Monte
Valle
Taglio (kN/m)
200
200
339
324
Minimo
Valore: -171.21
Z : 331.2
Massimo
Valore: 185.15
Z : 326.6


Base Design Section
GLOBALE SISMICA
Sisma
Monte
Valle
Kv = -0.042042
Taglio (kN/m)
Kh = 0.084084
300
500
339
324
P1 = 12.65 kPa
Kb = 0.1454
Manuale
P2 = 12.65 kPa
Minimo
Valore: -282.67
Z : 331.2
Massimo
Valore: 422.7
Z : 326.2

7. Descrizione sintetica dei risultati delle Design Assumption (Inviluppi)

7.1. Grafico Inviluppi Spostamento



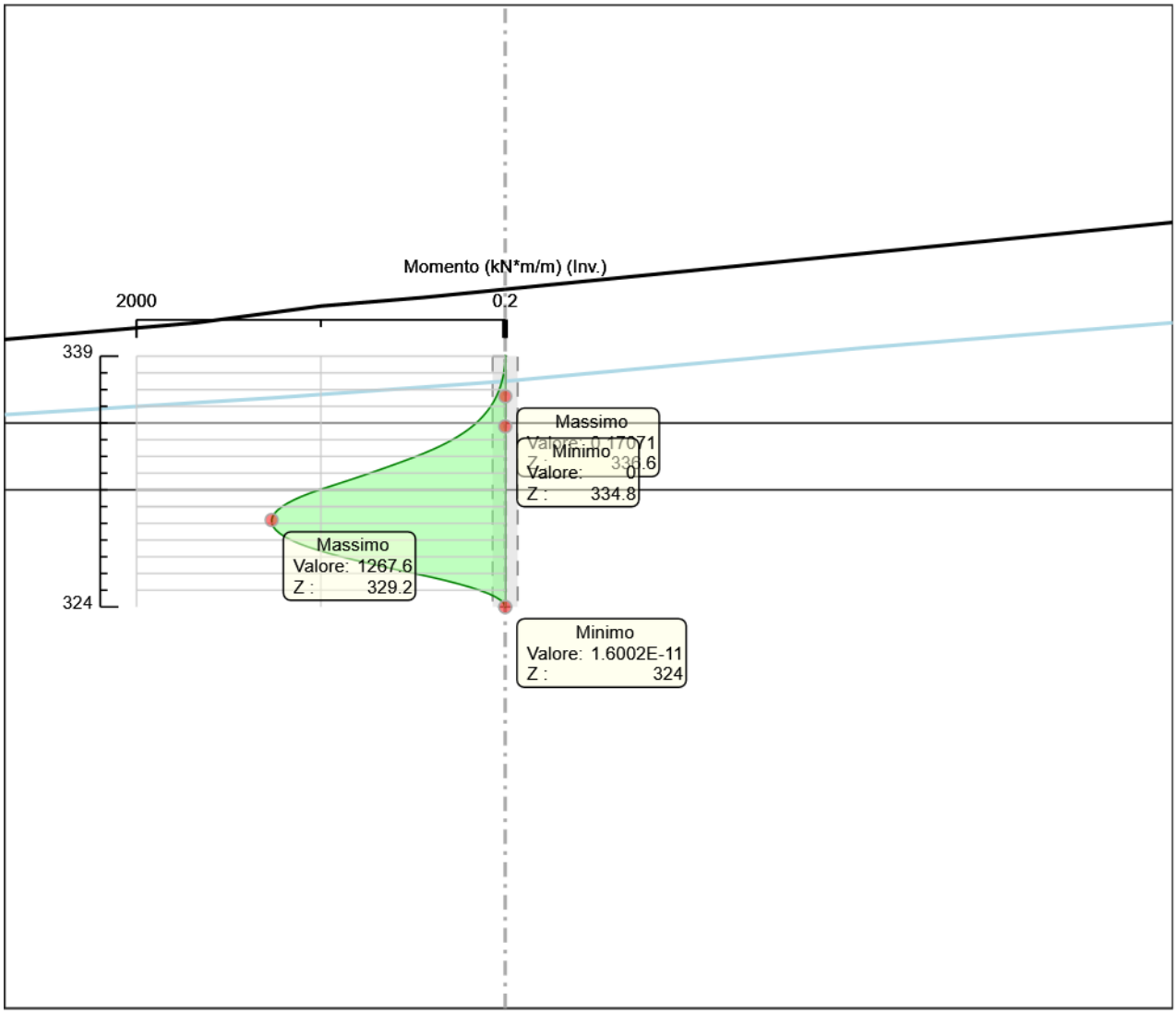
Spostamento

7.2. Tabella Inviluppi Momento Pali1500

Selected Design Assumptions	Inviluppi: Momento	Muro: Pali1500
Z (m)	Lato sinistro (kN*m/m)	Lato destro (kN*m/m)
339	0	0
338.8	0.317	0.001
338.6	1.267	0.006
338.4	2.851	0.015
338.2	5.068	0.028
338	7.921	0.045
337.8	11.405	0.066
337.6	15.523	0.091
337.4	20.295	0.12
337.2	25.79	0.142
337	32.09	0.158
336.8	39.278	0.167
336.6	47.439	0.171
336.4	56.66	0.169
336.2	67.014	0.161
336	78.59	0.148
335.8	91.471	0.13
335.6	105.74	0.108
335.4	121.481	0.081
335.2	138.775	0.049
335	157.708	0.013
334.8	178.826	0
334.6	202.222	0
334.4	228.019	0
334.2	256.329	0
334	287.265	0
333.8	320.939	0
333.6	357.464	0
333.4	396.954	0
333.2	439.54	0
333	485.289	0
332.8	532.737	0
332.6	581.657	0
332.4	631.822	0
332.2	683.086	0
332	735.387	0
331.8	788.664	0
331.6	842.88	0
331.4	897.916	0
331.2	953.734	0
331	1010.268	0
330.8	1061.473	0
330.6	1107.263	0
330.4	1147.54	0
330.2	1182.204	0
330	1211.151	0
329.799	1234.286	0
329.599	1251.476	0
329.399	1262.623	0
329.199	1267.613	0
328.999	1266.334	0
328.799	1258.672	0
328.599	1244.512	0
328.399	1223.738	0
328.199	1196.221	0
327.999	1161.87	0
327.799	1120.557	0
327.599	1072.163	0
327.399	1016.746	0
327.199	955.015	0.001
326.999	887.666	0.001
326.799	815.394	0.002
326.599	738.846	0.002
326.399	658.778	0.002
326.199	575.83	0.002
325.999	491.289	0.002
325.799	408.773	0.002

Selected Design Assumptions	Inviluppi: Momento	Muro: Pali1500
Z (m)	Lato sinistro (kN*m/m)	Lato destro (kN*m/m)
325.599	331.266	0.002
325.399	259.954	0.001
325.199	195.66	0.001
324.999	139.121	0.001
324.799	91.155	0.001
324.599	52.497	0
324.399	23.907	0
324.199	6.145	0
324	0	0

7.3. Grafico Inviluppi Momento



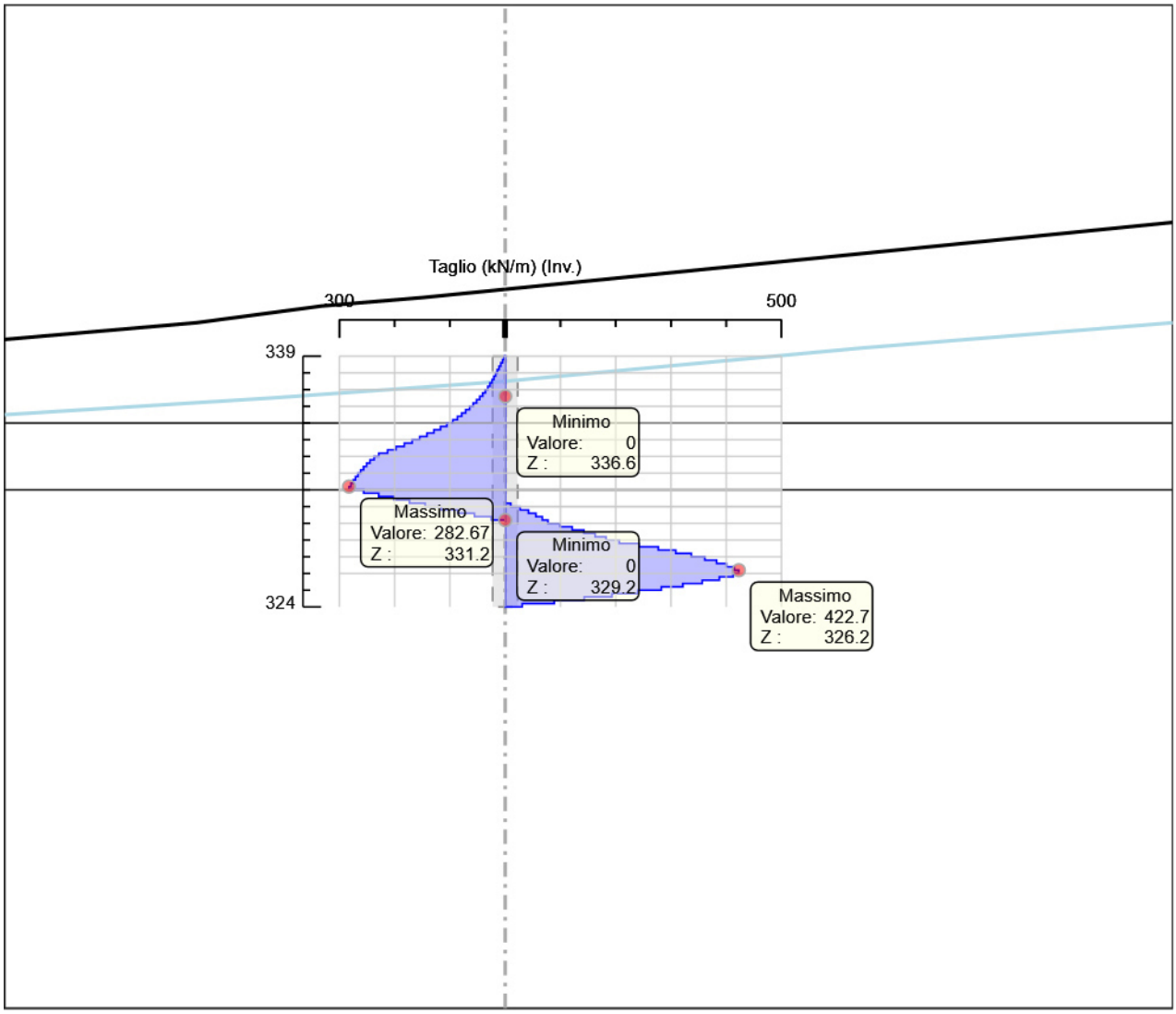
Momento

7.4. Tabella Inviluppi Taglio Pali1500

Selected Design Assumptions	Inviluppi: Taglio	Muro: Pali1500
Z (m)	Lato sinistro (kN/m)	Lato destro (kN/m)
339	1.584	0.004
338.8	4.751	0.025
338.6	7.919	0.045
338.4	11.087	0.065
338.2	14.255	0.086
338	17.423	0.106
337.8	20.591	0.125
337.6	23.86	0.145
337.4	27.472	0.145
337.2	31.5	0.111
337	35.943	0.078
336.8	40.803	0.047
336.6	46.08	0.017
336.4	51.773	0
336.2	57.881	0
336	64.405	0
335.8	71.345	0
335.6	78.701	0
335.4	86.473	0
335.2	94.661	0
335	105.539	0
334.8	116.98	0
334.6	128.984	0
334.4	141.55	0
334.2	154.679	0
334	168.372	0
333.8	182.627	0
333.6	197.446	0
333.4	212.828	0
333.2	228.744	0
333	237.239	0.005
332.8	244.599	0.01
332.6	250.824	0.015
332.4	256.32	0.019
332.2	261.509	0.022
332	266.386	0.025
331.8	270.944	0.027
331.6	275.179	0.03
331.4	279.088	0.032
331.2	282.669	0.035
331	282.669	0.035
330.8	256.029	0.034
330.6	228.947	0.033
330.4	201.385	0.031
330.2	173.321	10.072
330	144.736	27.077
329.799	115.616	42.218
329.599	85.951	55.59
329.399	55.732	67.285
329.199	24.952	77.396
328.999	0	99.676
328.799	0	121.39
328.599	0	142.409
328.399	0	162.758
328.199	0	182.462
327.999	0	206.568
327.799	0	241.972
327.599	0	277.081
327.399	0	308.659
327.199	0	336.742
326.999	0	361.362
326.799	0	382.551
326.599	0	400.335
326.399	0	414.743
326.199	0	422.704
325.999	0.001	422.704
325.799	0.001	412.579

Selected Design Assumptions	Inviluppi: Taglio	Muro: Pali1500
Z (m)	Lato sinistro (kN/m)	Lato destro (kN/m)
325.599	0.001	387.54
325.399	0.001	356.559
325.199	0.001	321.468
324.999	0.001	282.556
324.799	0.001	239.828
324.599	0.001	193.292
324.399	0.001	142.951
324.199	0.001	88.808
324	0	30.864

7.5. Grafico Inviluppi Taglio



Taglio

7.6. Inviluppo Spinta Reale Efficace / Spinta Passiva

Design Assumption	Stage	Muro	Lato	Inviluppo Spinta Reale Efficace / Spinta Passiva %
A2+M2+R1	Pre-scavo+Pali	Left Wall	LEFT	18.83
GLOBALE SISMICA	Sisma	Left Wall	RIGHT	58.88

7.7. Inviluppo Spinta Reale Efficace / Spinta Attiva

Design Assumption	Stage	Muro	Lato	Inviluppo Spinta Reale Efficace / Spinta Attiva %
A2+M2+R1	Scavo finale	Left Wall	LEFT	133.73
A2+M2+R1	AnteOperam	Left Wall	RIGHT	179.96

8. Allegati

8.1. Design Assumption : Nominal - File di Paratie - File di input (.d)

```
* PARATIE ANALYSIS FOR DESIGN SECTION:Base Design Section USING ASSUMPTION: Nominal
 * Time:venerdì 28 gennaio 2022 16:22:47
 * 1: Defining general settings
 UNIT  m kN
 TITLE New Project
 DELTA 0.2
 option param itemax 80
 option control contact lagrange

 option control hinges 0 0.0001 0.001

 * 2: Defining wall(s)
 WALL LeftWall_36 10 324 339 1

 * 3: Defining surfaces for wall(s)
 SOIL 0_L LeftWall_36 324 339 1 0
 SOIL 0_R LeftWall_36 324 339 2 180

 * 4: Defining soil layers
 *
 * Soil Profile (Aate_364268_2050_L_0)
 *
 LDATA Aate_364268_2050_L_0 343 LeftWall_36
 ATREST 0.5 0.5 1
 WEIGHT 19 9 10
 PERMEABILITY 1E-05
 RESISTANCE 10 31 0 0 0
 TZDATA  LINEAR 10000 0 25 0.5 0
 KSCALE  0 0
 YOUNG 40000 1.2E+05
 ENDL
 *
 * Soil Profile (Salt_1270_202756_L_0)
 *
 LDATA Salt_1270_202756_L_0 335 LeftWall_36
 ATREST 0.562 0.5 1
 WEIGHT 20 10 10
 PERMEABILITY 1E-05
 RESISTANCE 10 26 0 0 0
 TZDATA  LINEAR 10000 0 25 0.5 0
 KSCALE  0 0
 YOUNG 2E+05 6E+05
 ENDL
 *
 * Soil Profile (Pa_244788_244789_L_0)
 *
 LDATA Pa_244788_244789_L_0 331 LeftWall_36
 ATREST 0.5 0.5 1
 WEIGHT 22.5 12.5 10
 PERMEABILITY 0.0001
 RESISTANCE 50 27 0 0 0
 TZDATA  LINEAR 20000 0 30 0.5 0
 KSCALE  0 0
 YOUNG 1E+05 3E+05
 ENDL

 * 5: Defining structural materials
 * Steel material: 114 Name=Fe360 E=206000200 kPa
 MATERIAL Fe360_114 2.06E+08
 * Concrete material: 112 Name=C32/40 E=33345800 kPa
 MATERIAL C3240_112 3.3346E+07

 * 6: Defining structural elements
 * 6.1: Beams and combined Wall Elements
 ** rev 2021 and later
 BEAM Pali1500_253215 LeftWall_36 324 339 C3240_112 1.1067 0.80325 0.11296 20.081 00 00 0


 * 6.2: Supports




 * 6.3: Strips

 * 7: Defining Steps
 STEP AnteOperam_1747
 CHANGE Aate_364268_2050_L_0 U-FRICT=31 LeftWall_36
 CHANGE Aate_364268_2050_L_0 D-FRICT=31 LeftWall_36
 CHANGE Aate_364268_2050_L_0 U-KA=0.303 LeftWall_36
```

```
CHANGE Aate_364268_2050_L_0 U-KP=3.803 LeftWall_36
CHANGE Aate_364268_2050_L_0 D-KA=0.34 LeftWall_36
CHANGE Aate_364268_2050_L_0 D-KP=4.555 LeftWall_36
CHANGE Salt_1270_202756_L_0 U-FRICT=26 LeftWall_36
CHANGE Salt_1270_202756_L_0 D-FRICT=26 LeftWall_36
CHANGE Salt_1270_202756_L_0 U-KA=0.368 LeftWall_36
CHANGE Salt_1270_202756_L_0 U-KP=2.867 LeftWall_36
CHANGE Salt_1270_202756_L_0 D-KA=0.418 LeftWall_36
CHANGE Salt_1270_202756_L_0 D-KP=3.404 LeftWall_36
CHANGE Pa_244788_244789_L_0 U-FRICT=27 LeftWall_36
CHANGE Pa_244788_244789_L_0 D-FRICT=27 LeftWall_36
CHANGE Pa_244788_244789_L_0 U-KA=0.355 LeftWall_36
CHANGE Pa_244788_244789_L_0 U-KP=2.998 LeftWall_36
CHANGE Pa_244788_244789_L_0 D-KA=0.401 LeftWall_36
CHANGE Pa_244788_244789_L_0 D-KP=3.601 LeftWall_36
CHANGE Aate_364268_2050_L_0 U-COHE=10 LeftWall_36
CHANGE Aate_364268_2050_L_0 U-ADHES=0 LeftWall_36
CHANGE Aate_364268_2050_L_0 D-COHE=10 LeftWall_36
CHANGE Aate_364268_2050_L_0 D-ADHES=0 LeftWall_36
CHANGE Salt_1270_202756_L_0 U-COHE=10 LeftWall_36
CHANGE Salt_1270_202756_L_0 U-ADHES=0 LeftWall_36
CHANGE Salt_1270_202756_L_0 D-COHE=10 LeftWall_36
CHANGE Salt_1270_202756_L_0 D-ADHES=0 LeftWall_36
CHANGE Pa_244788_244789_L_0 U-COHE=50 LeftWall_36
CHANGE Pa_244788_244789_L_0 U-ADHES=0 LeftWall_36
CHANGE Pa_244788_244789_L_0 D-COHE=50 LeftWall_36
CHANGE Pa_244788_244789_L_0 D-ADHES=0 LeftWall_36
SETWALL LeftWall_36
GEOM 343 343
SURCHARGE 0 0 0 0
WATER 337.47 -0.066047 324 0 0
ENDSTEP

STEP Pre-scavo+Pali_244791
CHANGE Aate_364268_2050_L_0 U-KA=0.322 LeftWall_36
CHANGE Aate_364268_2050_L_0 U-KP=4.555 LeftWall_36
CHANGE Aate_364268_2050_L_0 D-KA=0.32 LeftWall_36
CHANGE Salt_1270_202756_L_0 U-KA=0.491 LeftWall_36
CHANGE Salt_1270_202756_L_0 U-KP=3.404 LeftWall_36
CHANGE Salt_1270_202756_L_0 D-KA=0.39 LeftWall_36
CHANGE Pa_244788_244789_L_0 U-KA=0.481 LeftWall_36
CHANGE Pa_244788_244789_L_0 U-KP=3.601 LeftWall_36
CHANGE Pa_244788_244789_L_0 D-KA=0.376 LeftWall_36
SETWALL LeftWall_36
GEOM 339 339
SURCHARGE 0 0 0 0
WATER 337.47 -0.039326 324 0 0
ADD Pali1500_253215
ENDSTEP

STEP Scavofinale_252903
SETWALL LeftWall_36
GEOM 339 333
SURCHARGE 0 0 0 0
WATER 337.47 4.9732 324 0 0
ENDSTEP

STEP Sisma_284297
SETWALL LeftWall_36
GEOM 339 333
SURCHARGE 0 0 0 0
WATER 337.47 4.9732 324 0 0
CHANGE Aate_364268_2050_L_0 U-KAED=0.44088 LeftWall_36
CHANGE Aate_364268_2050_L_0 U-KAEW=0.5814 LeftWall_36
CHANGE Aate_364268_2050_L_0 U-KPED=4.441 LeftWall_36
CHANGE Aate_364268_2050_L_0 U-KPEW=3.7963 LeftWall_36
CHANGE Aate_364268_2050_L_0 D-KAED=0.39225 LeftWall_36
CHANGE Aate_364268_2050_L_0 D-KAEW=0.54154 LeftWall_36
CHANGE Aate_364268_2050_L_0 D-KPED=3.7685 LeftWall_36
CHANGE Aate_364268_2050_L_0 D-KPEW=3.0916 LeftWall_36
CHANGE Salt_1270_202756_L_0 U-KAED=0.7584 LeftWall_36
CHANGE Salt_1270_202756_L_0 U-KAEW=1.1113 LeftWall_36
CHANGE Salt_1270_202756_L_0 U-KPED=3.2803 LeftWall_36
CHANGE Salt_1270_202756_L_0 U-KPEW=2.7847 LeftWall_36
CHANGE Salt_1270_202756_L_0 D-KAED=0.46829 LeftWall_36
CHANGE Salt_1270_202756_L_0 D-KAEW=0.625 LeftWall_36
CHANGE Salt_1270_202756_L_0 D-KPED=2.7754 LeftWall_36
CHANGE Salt_1270_202756_L_0 D-KPEW=2.2487 LeftWall_36
CHANGE Pa_244788_244789_L_0 U-KAED=0.76054 LeftWall_36
CHANGE Pa_244788_244789_L_0 U-KAEW=1.077 LeftWall_36
CHANGE Pa_244788_244789_L_0 U-KPED=3.4777 LeftWall_36
CHANGE Pa_244788_244789_L_0 U-KPEW=3.0819 LeftWall_36
CHANGE Pa_244788_244789_L_0 D-KAED=0.45252 LeftWall_36
CHANGE Pa_244788_244789_L_0 D-KAEW=0.56751 LeftWall_36
CHANGE Pa_244788_244789_L_0 D-KPED=2.9451 LeftWall_36
CHANGE Pa_244788_244789_L_0 D-KPEW=2.5269 LeftWall_36
EQK USER 0.1454 0.0727 -0.0727 0 0.5 0 0.5 0 0
* Defining seismic surcharge pressures on wall LeftWall_36
*          min elevation = 333
*          max elevation = 339
*          average gamma = 19,3333333333333
*                     kh = 0,1454
```

```
*                deltaQ = 75,8988
DLOAD step LeftWall_36 333 12.65 339 12.65
* Include pressure contribution from wall: LeftWall_36
* Include wall contribution
DLOAD step LeftWall_36 333 2.9198 339 2.9198
ENDSTEP
```

8.2. Design Assumption : Nominal - File di Paratie - File di output (.out)

```
+-------------------------------------------------------------------------------------------------------------------------+
|                   PARATIEPLUS(TM)   NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*              |
|                                                                                                                         |
|                                              ParatiePlus                                                                |
|                                  Exe Time :28 January 2022   16:22:47                                                   |
+-------------------------------------------------------------------------------------------------------------------------+

                    ********************************************************
                    *                                                      *
                    *  PARATIE PLUS Non-Linear Spring Engine               *
                    *                                                      *
                    *          AN ELASTOPLASTIC FINITE ELEMENT PROGRAM     *
                    *          FOR FLEXIBLE EARTH-RETAINING STRUCTURES     *
                    *                                                      *
                    *          Written by CEAS s.r.l. (ITALY)              *
                    *          with the scientific supervision of          *
                    *          Roberto Nova - full professor SOIL MECHANICS*
                    *          at Politecnico di Milano (ITALY)            *
                    *                                                      *
                    ********************************************************
                    *                                                      *
                    *  RELEASE   2022.0.0   *Build date:Sep 13, 2021*      *
                    *                                                      *
                    *                                                      *
                    *  CEAS S.R.L  VIALE   GIUSTINIANO 10                  *
                    *              20129   M I L A N O  (ITALIA)           *
                    *  TEL.        +39 02 2020221                          *
                    *                                                      *
                    *  email       bruno.becci@ceas.it                     *
                    *  Web Page    www.ceas.it     www.paratieplus.com     *
                    ********************************************************



 JOB : ParatiePlus
 STARTING
ACCEPTED   &lt;FILE,GENW                                                                    &gt;
ACCEPTED   &lt;FILE,PLOTTER,BINARY                                                          &gt;
ACCEPTED   &lt;SOLVE TOTAL_STRESS                                                           &gt;
ACCEPTED   &lt;PARAM ITEMAX 80                                                              &gt;
ACCEPTED   &lt;CONTROL CONTACT LAGRANGE                                                     &gt;
ACCEPTED   &lt;CONTROL HINGES 0 0.0001 0.001                                                &gt;



                    ********************************************************
                    *                                                      *
                    *  WARNING : PORE PRESSURES ARE AUTOMATICALLY COMPUTED  *
                    *    BY THE PROGRAM.                                   *
                    ********************************************************

PRELIMINARY OPERATIONS CPU TIME     0.01 [sec]
```

```
+-----------------------------------------------------------------------------------------------------------------------+
|                   PARATIEPLUS(TM)   NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*             |
|                                                                                                                       |
|                                                ParatiePlus                                                            |
|                                Exe Time :28 January 2022   16:22:47                                                   |
+-----------------------------------------------------------------------------------------------------------------------+


INPUT FILE HAS BEEN GENERATED BY WALGEN PROGRAM


New Project


NO. OF NODAL POINTS (NUMNP) ...................   76
NO. OF COORDINATES  (NCOORD)...................    2
NO. OF NODE DOFS    (NDOF).....................    2
NO. OF EQUATIONS    (NEQ)...................... 152
NO. OF CONSTRAINTS CARDS (NVINC)...............    0
NO. OF ELEMENT GROUPS (NEG)....................    3
NO. OF SOLUTION STEPS (NSTE)...................    4
NO. OF ELEMENT SETS ATTACHED TO SLAVE NODES ...    0
NO. OF RECORD FROM WALGEN ..................... 130
NO. OF LONG NAMES (LASTNAME) ..................   17
LENGTH UNIT CHOICE ............................    3 (M   )
FORCE  UNIT CHOICE ............................    3 (KN  )
MAX PORE PRESSURE TABLE LENGTH.................    1
MAX INELASTIC DISPL. TABLE LENGTH..............    0
NO. OF ELEMENT GROUPS REQUIRING ADD. SLIP DOF .    0


IDOFA (01) =  2  Y-DISPL.F
IDOFA (02) =  4   X-ROT. F

 RELEVANT ITEMS UNITS

 STRESSES                  kPa
 Y-DISPLACEMENTS           m
 ROTATIONS                 RADIANS
 BEAM AND SLAB MOMENTS     kN*m/m
 BEAM SHEAR FORCES         kN/m
 ANCHOR FORCES             kN/m
 AXIAL FORCES IN TRUSSES   kN/m
 AXIAL FORCES SPRINGS      kN/m
 Y-REACTIONS               kN/m
 X-MOMENT REACTIONS        kN*m/m
 ETC.
```

```
+-------------------------------------------------------------------------------------------------------------------------+
|                   PARATIEPLUS(TM)   NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*              |
|                                                                                                                         |
|                                              ParatiePlus                                                                |
|                                  Exe Time :28 January 2022   16:22:47                                                   |
+-------------------------------------------------------------------------------------------------------------------------+
                   P R E P R O C E S S O R     D A T A

                   N O.  O F   C O M M A N D S    130

    1 : UNIT  m kN
    2 : TITLE New Project
    3 : DELTA 0.2
    4 : option param itemax 80
    5 : option control contact lagrange
    6 : option control hinges 0 0.0001 0.001
    7 : WALL LeftWall_36 10 324 339 1
    8 : SOIL 0_L LeftWall_36 324 339 1 0
    9 : SOIL 0_R LeftWall_36 324 339 2 180
   10 : LDATA Aate_364268_2050_L_0 343 LeftWall_36
   11 : ATREST 0.5 0.5 1
   12 : WEIGHT 19 9 10
   13 : PERMEABILITY 1E-05
   14 : RESISTANCE 10 31 0 0 0
   15 : TZDATA  LINEAR 10000 0 25 0.5 0
   16 : KSCALE  0 0
   17 : YOUNG 40000 1.2E+05
   18 : ENDL
   19 : LDATA Salt_1270_202756_L_0 335 LeftWall_36
   20 : ATREST 0.562 0.5 1
   21 : WEIGHT 20 10 10
   22 : PERMEABILITY 1E-05
   23 : RESISTANCE 10 26 0 0 0
   24 : TZDATA  LINEAR 10000 0 25 0.5 0
   25 : KSCALE  0 0
   26 : YOUNG 2E+05 6E+05
   27 : ENDL
   28 : LDATA Pa_244788_244789_L_0 331 LeftWall_36
   29 : ATREST 0.5 0.5 1
   30 : WEIGHT 22.5 12.5 10
   31 : PERMEABILITY 0.0001
   32 : RESISTANCE 50 27 0 0 0
   33 : TZDATA  LINEAR 20000 0 30 0.5 0
   34 : KSCALE  0 0
   35 : YOUNG 1E+05 3E+05
   36 : ENDL
   37 : MATERIAL Fe360_114 2.06E+08
   38 : MATERIAL C3240_112 3.3346E+07
   39 : BEAM Pali1500_253215 LeftWall_36 324 339 C3240_112 1.1067 0.80325 0.11296 20.081 00 00 0
   40 : STEP AnteOperam_1747
   41 : CHANGE Aate_364268_2050_L_0 U-FRICT=31 LeftWall_36
   42 : CHANGE Aate_364268_2050_L_0 D-FRICT=31 LeftWall_36
   43 : CHANGE Aate_364268_2050_L_0 U-KA=0.303 LeftWall_36
   44 : CHANGE Aate_364268_2050_L_0 U-KP=3.803 LeftWall_36
   45 : CHANGE Aate_364268_2050_L_0 D-KA=0.34 LeftWall_36
   46 : CHANGE Aate_364268_2050_L_0 D-KP=4.555 LeftWall_36
   47 : CHANGE Salt_1270_202756_L_0 U-FRICT=26 LeftWall_36
   48 : CHANGE Salt_1270_202756_L_0 D-FRICT=26 LeftWall_36
   49 : CHANGE Salt_1270_202756_L_0 U-KA=0.368 LeftWall_36
   50 : CHANGE Salt_1270_202756_L_0 U-KP=2.867 LeftWall_36
   51 : CHANGE Salt_1270_202756_L_0 D-KA=0.418 LeftWall_36
   52 : CHANGE Salt_1270_202756_L_0 D-KP=3.404 LeftWall_36
   53 : CHANGE Pa_244788_244789_L_0 U-FRICT=27 LeftWall_36
   54 : CHANGE Pa_244788_244789_L_0 D-FRICT=27 LeftWall_36
   55 : CHANGE Pa_244788_244789_L_0 U-KA=0.355 LeftWall_36
   56 : CHANGE Pa_244788_244789_L_0 U-KP=2.998 LeftWall_36
   57 : CHANGE Pa_244788_244789_L_0 D-KA=0.401 LeftWall_36
   58 : CHANGE Pa_244788_244789_L_0 D-KP=3.601 LeftWall_36
   59 : CHANGE Aate_364268_2050_L_0 U-COHE=10 LeftWall_36
   60 : CHANGE Aate_364268_2050_L_0 U-ADHES=0 LeftWall_36
   61 : CHANGE Aate_364268_2050_L_0 D-COHE=10 LeftWall_36
   62 : CHANGE Aate_364268_2050_L_0 D-ADHES=0 LeftWall_36
   63 : CHANGE Salt_1270_202756_L_0 U-COHE=10 LeftWall_36
   64 : CHANGE Salt_1270_202756_L_0 U-ADHES=0 LeftWall_36
   65 : CHANGE Salt_1270_202756_L_0 D-COHE=10 LeftWall_36
   66 : CHANGE Salt_1270_202756_L_0 D-ADHES=0 LeftWall_36
   67 : CHANGE Pa_244788_244789_L_0 U-COHE=50 LeftWall_36
   68 : CHANGE Pa_244788_244789_L_0 U-ADHES=0 LeftWall_36
   69 : CHANGE Pa_244788_244789_L_0 D-COHE=50 LeftWall_36
   70 : CHANGE Pa_244788_244789_L_0 D-ADHES=0 LeftWall_36
   71 : SETWALL LeftWall_36
   72 : GEOM 343 343
   73 : SURCHARGE 0 0 0 0
   74 : WATER 337.47 -0.066047 324 0 0
   75 : ENDSTEP
   76 : STEP Pre-scavo+Pali_244791
   77 : CHANGE Aate_364268_2050_L_0 U-KA=0.322 LeftWall_36
   78 : CHANGE Aate_364268_2050_L_0 U-KP=4.555 LeftWall_36
   79 : CHANGE Aate_364268_2050_L_0 D-KA=0.32 LeftWall_36
```

```
 80 : CHANGE Salt_1270_202756_L_0 U-KA=0.491 LeftWall_36
 81 : CHANGE Salt_1270_202756_L_0 U-KP=3.404 LeftWall_36
 82 : CHANGE Salt_1270_202756_L_0 D-KA=0.39 LeftWall_36
 83 : CHANGE Pa_244788_244789_L_0 U-KA=0.481 LeftWall_36
 84 : CHANGE Pa_244788_244789_L_0 U-KP=3.601 LeftWall_36
 85 : CHANGE Pa_244788_244789_L_0 D-KA=0.376 LeftWall_36
 86 : SETWALL LeftWall_36
 87 : GEOM 339 339
 88 : SURCHARGE 0 0 0 0
 89 : WATER 337.47 -0.039326 324 0 0
 90 : ADD Pali1500_253215
 91 : ENDSTEP
 92 : STEP Scavofinale_252903
 93 : SETWALL LeftWall_36
 94 : GEOM 339 333
 95 : SURCHARGE 0 0 0 0
 96 : WATER 337.47 4.9732 324 0 0
 97 : ENDSTEP
 98 : STEP Sisma_284297
 99 : SETWALL LeftWall_36
100 : GEOM 339 333
101 : SURCHARGE 0 0 0 0
102 : WATER 337.47 4.9732 324 0 0
103 : CHANGE Aate_364268_2050_L_0 U-KAED=0.44088 LeftWall_36
104 : CHANGE Aate_364268_2050_L_0 U-KAEW=0.5814 LeftWall_36
105 : CHANGE Aate_364268_2050_L_0 U-KPED=4.441 LeftWall_36
106 : CHANGE Aate_364268_2050_L_0 U-KPEW=3.7963 LeftWall_36
107 : CHANGE Aate_364268_2050_L_0 D-KAED=0.39225 LeftWall_36
108 : CHANGE Aate_364268_2050_L_0 D-KAEW=0.54154 LeftWall_36
109 : CHANGE Aate_364268_2050_L_0 D-KPED=3.7685 LeftWall_36
110 : CHANGE Aate_364268_2050_L_0 D-KPEW=3.0916 LeftWall_36
111 : CHANGE Salt_1270_202756_L_0 U-KAED=0.7584 LeftWall_36
112 : CHANGE Salt_1270_202756_L_0 U-KAEW=1.1113 LeftWall_36
113 : CHANGE Salt_1270_202756_L_0 U-KPED=3.2803 LeftWall_36
114 : CHANGE Salt_1270_202756_L_0 U-KPEW=2.7847 LeftWall_36
115 : CHANGE Salt_1270_202756_L_0 D-KAED=0.46829 LeftWall_36
116 : CHANGE Salt_1270_202756_L_0 D-KAEW=0.625 LeftWall_36
117 : CHANGE Salt_1270_202756_L_0 D-KPED=2.7754 LeftWall_36
118 : CHANGE Salt_1270_202756_L_0 D-KPEW=2.2487 LeftWall_36
119 : CHANGE Pa_244788_244789_L_0 U-KAED=0.76054 LeftWall_36
120 : CHANGE Pa_244788_244789_L_0 U-KAEW=1.077 LeftWall_36
121 : CHANGE Pa_244788_244789_L_0 U-KPED=3.4777 LeftWall_36
122 : CHANGE Pa_244788_244789_L_0 U-KPEW=3.0819 LeftWall_36
123 : CHANGE Pa_244788_244789_L_0 D-KAED=0.45252 LeftWall_36
124 : CHANGE Pa_244788_244789_L_0 D-KAEW=0.56751 LeftWall_36
125 : CHANGE Pa_244788_244789_L_0 D-KPED=2.9451 LeftWall_36
126 : CHANGE Pa_244788_244789_L_0 D-KPEW=2.5269 LeftWall_36
127 : EQK USER 0.1454 0.0727 -0.0727 0 0.5 0 0.5 0 0
128 : DLOAD step LeftWall_36 333 12.65 339 12.65
129 : DLOAD step LeftWall_36 333 2.9198 339 2.9198
130 : ENDSTEP
```

N O D A L P O I N T D A T A

NODE	Y-COORD	Z-COORD	/ NODE	Y-COORD	Z-COORD	/ NODE	Y-COORD	Z-COORD	/ NODE	Y-COORD	Z-COORD	/
1	10.000	339.00	/ 2	10.000	338.80	/ 3	10.000	338.60	/ 4	10.000	338.40	/
5	10.000	338.20	/ 6	10.000	338.00	/ 7	10.000	337.80	/ 8	10.000	337.60	/
9	10.000	337.40	/ 10	10.000	337.20	/ 11	10.000	337.00	/ 12	10.000	336.80	/
13	10.000	336.60	/ 14	10.000	336.40	/ 15	10.000	336.20	/ 16	10.000	336.00	/
17	10.000	335.80	/ 18	10.000	335.60	/ 19	10.000	335.40	/ 20	10.000	335.20	/
21	10.000	335.00	/ 22	10.000	334.80	/ 23	10.000	334.60	/ 24	10.000	334.40	/
25	10.000	334.20	/ 26	10.000	334.00	/ 27	10.000	333.80	/ 28	10.000	333.60	/
29	10.000	333.40	/ 30	10.000	333.20	/ 31	10.000	333.00	/ 32	10.000	332.80	/
33	10.000	332.60	/ 34	10.000	332.40	/ 35	10.000	332.20	/ 36	10.000	332.00	/
37	10.000	331.80	/ 38	10.000	331.60	/ 39	10.000	331.40	/ 40	10.000	331.20	/
41	10.000	331.00	/ 42	10.000	330.80	/ 43	10.000	330.60	/ 44	10.000	330.40	/
45	10.000	330.20	/ 46	10.000	330.00	/ 47	10.000	329.80	/ 48	10.000	329.60	/
49	10.000	329.40	/ 50	10.000	329.20	/ 51	10.000	329.00	/ 52	10.000	328.80	/
53	10.000	328.60	/ 54	10.000	328.40	/ 55	10.000	328.20	/ 56	10.000	328.00	/
57	10.000	327.80	/ 58	10.000	327.60	/ 59	10.000	327.40	/ 60	10.000	327.20	/
61	10.000	327.00	/ 62	10.000	326.80	/ 63	10.000	326.60	/ 64	10.000	326.40	/
65	10.000	326.20	/ 66	10.000	326.00	/ 67	10.000	325.80	/ 68	10.000	325.60	/
69	10.000	325.40	/ 70	10.000	325.20	/ 71	10.000	325.00	/ 72	10.000	324.80	/
73	10.000	324.60	/ 74	10.000	324.40	/ 75	10.000	324.20	/ 76	10.000	324.00	/

 ELEMENT GROUP NO. 1

0_L   :
   5 76   0   1   0   0   0   0   0   0   0   0   0   0   0   3   0   0   0   0
....
.....2D PLASTIC SOIL .....
....

element group behaviour throughout stage analysis

stage	status
1	active
2	active
3	active
4	active

 material set no.   1

 prop(1) angle   0.00000
 prop(2) layer as foreseen 1.00000

 material set no.   2

 prop(1) angle   0.00000
 prop(2) layer as foreseen 2.00000

 material set no.   3

 prop(1) angle   0.00000
 prop(2) layer as foreseen 3.00000

 element data

el	n	mat	area	.....	.....	.....	flag
1	1	1	0.1000	0.000	0.000	0.000	1.000
2	2	1	0.2000	0.000	0.000	0.000	1.000
3	3	1	0.2000	0.000	0.000	0.000	1.000
4	4	1	0.2000	0.000	0.000	0.000	1.000
5	5	1	0.2000	0.000	0.000	0.000	1.000
6	6	1	0.2000	0.000	0.000	0.000	1.000
7	7	1	0.2000	0.000	0.000	0.000	1.000
8	8	1	0.2000	0.000	0.000	0.000	1.000
9	9	1	0.2000	0.000	0.000	0.000	1.000
10	10	1	0.2000	0.000	0.000	0.000	1.000
11	11	1	0.2000	0.000	0.000	0.000	1.000
12	12	1	0.2000	0.000	0.000	0.000	1.000
13	13	1	0.2000	0.000	0.000	0.000	1.000
14	14	1	0.2000	0.000	0.000	0.000	1.000
15	15	1	0.2000	0.000	0.000	0.000	1.000
16	16	1	0.2000	0.000	0.000	0.000	1.000
17	17	1	0.2000	0.000	0.000	0.000	1.000
18	18	1	0.2000	0.000	0.000	0.000	1.000
19	19	1	0.2000	0.000	0.000	0.000	1.000
20	20	1	0.2000	0.000	0.000	0.000	1.000
21	21	2	0.2000	0.000	0.000	0.000	1.000
22	22	2	0.2000	0.000	0.000	0.000	1.000
23	23	2	0.2000	0.000	0.000	0.000	1.000
24	24	2	0.2000	0.000	0.000	0.000	1.000
25	25	2	0.2000	0.000	0.000	0.000	1.000
26	26	2	0.2000	0.000	0.000	0.000	1.000
27	27	2	0.2000	0.000	0.000	0.000	1.000
28	28	2	0.2000	0.000	0.000	0.000	1.000
29	29	2	0.2000	0.000	0.000	0.000	1.000
30	30	2	0.2000	0.000	0.000	0.000	1.000
31	31	2	0.2000	0.000	0.000	0.000	1.000
32	32	2	0.2000	0.000	0.000	0.000	1.000
33	33	2	0.2000	0.000	0.000	0.000	1.000
34	34	2	0.2000	0.000	0.000	0.000	1.000
35	35	2	0.2000	0.000	0.000	0.000	1.000
36	36	2	0.2000	0.000	0.000	0.000	1.000
37	37	2	0.2000	0.000	0.000	0.000	1.000
38	38	2	0.2000	0.000	0.000	0.000	1.000
39	39	2	0.2000	0.000	0.000	0.000	1.000
40	40	2	0.2000	0.000	0.000	0.000	1.000
41	41	3	0.2000	0.000	0.000	0.000	1.000
42	42	3	0.2000	0.000	0.000	0.000	1.000
43	43	3	0.2000	0.000	0.000	0.000	1.000

44	44	3	0.2000	0.000	0.000	0.000	1.000
45	45	3	0.2000	0.000	0.000	0.000	1.000
46	46	3	0.2000	0.000	0.000	0.000	1.000
47	47	3	0.2000	0.000	0.000	0.000	1.000
48	48	3	0.2000	0.000	0.000	0.000	1.000
49	49	3	0.2000	0.000	0.000	0.000	1.000
50	50	3	0.2000	0.000	0.000	0.000	1.000
51	51	3	0.2000	0.000	0.000	0.000	1.000
52	52	3	0.2000	0.000	0.000	0.000	1.000
53	53	3	0.2000	0.000	0.000	0.000	1.000
54	54	3	0.2000	0.000	0.000	0.000	1.000
55	55	3	0.2000	0.000	0.000	0.000	1.000
56	56	3	0.2000	0.000	0.000	0.000	1.000
57	57	3	0.2000	0.000	0.000	0.000	1.000
58	58	3	0.2000	0.000	0.000	0.000	1.000
59	59	3	0.2000	0.000	0.000	0.000	1.000
60	60	3	0.2000	0.000	0.000	0.000	1.000
61	61	3	0.2000	0.000	0.000	0.000	1.000
62	62	3	0.2000	0.000	0.000	0.000	1.000
63	63	3	0.2000	0.000	0.000	0.000	1.000
64	64	3	0.2000	0.000	0.000	0.000	1.000
65	65	3	0.2000	0.000	0.000	0.000	1.000
66	66	3	0.2000	0.000	0.000	0.000	1.000
67	67	3	0.2000	0.000	0.000	0.000	1.000
68	68	3	0.2000	0.000	0.000	0.000	1.000
69	69	3	0.2000	0.000	0.000	0.000	1.000
70	70	3	0.2000	0.000	0.000	0.000	1.000
71	71	3	0.2000	0.000	0.000	0.000	1.000
72	72	3	0.2000	0.000	0.000	0.000	1.000
73	73	3	0.2000	0.000	0.000	0.000	1.000
74	74	3	0.2000	0.000	0.000	0.000	1.000
75	75	3	0.2000	0.000	0.000	0.000	1.000
76	76	3	0.1000	0.000	0.000	0.000	1.000

 ELEMENT GROUP NO. 2

0_R   :
   5 76   0   1   0   0   0   0   0   0   0   0   0   0   0   3   0   0   0   0
....
.....2D PLASTIC SOIL .....
....

element group behaviour throughout stage analysis

stage	status
1	active
2	active
3	active
4	active

 material set no.   1

 prop(1) angle   180.000
 prop(2) layer as foreseen 1.00000

 material set no.   2

 prop(1) angle   180.000
 prop(2) layer as foreseen 2.00000

 material set no.   3

 prop(1) angle   180.000
 prop(2) layer as foreseen 3.00000

 element data

el	n	mat	area	.....	.....	.....	flag
1	1	1	0.1000	0.000	0.000	0.000	2.000
2	2	1	0.2000	0.000	0.000	0.000	2.000
3	3	1	0.2000	0.000	0.000	0.000	2.000
4	4	1	0.2000	0.000	0.000	0.000	2.000
5	5	1	0.2000	0.000	0.000	0.000	2.000
6	6	1	0.2000	0.000	0.000	0.000	2.000
7	7	1	0.2000	0.000	0.000	0.000	2.000
8	8	1	0.2000	0.000	0.000	0.000	2.000
9	9	1	0.2000	0.000	0.000	0.000	2.000
10	10	1	0.2000	0.000	0.000	0.000	2.000
11	11	1	0.2000	0.000	0.000	0.000	2.000
12	12	1	0.2000	0.000	0.000	0.000	2.000
13	13	1	0.2000	0.000	0.000	0.000	2.000
14	14	1	0.2000	0.000	0.000	0.000	2.000
15	15	1	0.2000	0.000	0.000	0.000	2.000
16	16	1	0.2000	0.000	0.000	0.000	2.000
17	17	1	0.2000	0.000	0.000	0.000	2.000
18	18	1	0.2000	0.000	0.000	0.000	2.000
19	19	1	0.2000	0.000	0.000	0.000	2.000
20	20	1	0.2000	0.000	0.000	0.000	2.000
21	21	2	0.2000	0.000	0.000	0.000	2.000
22	22	2	0.2000	0.000	0.000	0.000	2.000
23	23	2	0.2000	0.000	0.000	0.000	2.000
24	24	2	0.2000	0.000	0.000	0.000	2.000
25	25	2	0.2000	0.000	0.000	0.000	2.000
26	26	2	0.2000	0.000	0.000	0.000	2.000
27	27	2	0.2000	0.000	0.000	0.000	2.000
28	28	2	0.2000	0.000	0.000	0.000	2.000
29	29	2	0.2000	0.000	0.000	0.000	2.000
30	30	2	0.2000	0.000	0.000	0.000	2.000
31	31	2	0.2000	0.000	0.000	0.000	2.000
32	32	2	0.2000	0.000	0.000	0.000	2.000
33	33	2	0.2000	0.000	0.000	0.000	2.000
34	34	2	0.2000	0.000	0.000	0.000	2.000
35	35	2	0.2000	0.000	0.000	0.000	2.000
36	36	2	0.2000	0.000	0.000	0.000	2.000
37	37	2	0.2000	0.000	0.000	0.000	2.000
38	38	2	0.2000	0.000	0.000	0.000	2.000
39	39	2	0.2000	0.000	0.000	0.000	2.000
40	40	2	0.2000	0.000	0.000	0.000	2.000
41	41	3	0.2000	0.000	0.000	0.000	2.000
42	42	3	0.2000	0.000	0.000	0.000	2.000
43	43	3	0.2000	0.000	0.000	0.000	2.000

44	44	3	0.2000	0.000	0.000	0.000	2.000
45	45	3	0.2000	0.000	0.000	0.000	2.000
46	46	3	0.2000	0.000	0.000	0.000	2.000
47	47	3	0.2000	0.000	0.000	0.000	2.000
48	48	3	0.2000	0.000	0.000	0.000	2.000
49	49	3	0.2000	0.000	0.000	0.000	2.000
50	50	3	0.2000	0.000	0.000	0.000	2.000
51	51	3	0.2000	0.000	0.000	0.000	2.000
52	52	3	0.2000	0.000	0.000	0.000	2.000
53	53	3	0.2000	0.000	0.000	0.000	2.000
54	54	3	0.2000	0.000	0.000	0.000	2.000
55	55	3	0.2000	0.000	0.000	0.000	2.000
56	56	3	0.2000	0.000	0.000	0.000	2.000
57	57	3	0.2000	0.000	0.000	0.000	2.000
58	58	3	0.2000	0.000	0.000	0.000	2.000
59	59	3	0.2000	0.000	0.000	0.000	2.000
60	60	3	0.2000	0.000	0.000	0.000	2.000
61	61	3	0.2000	0.000	0.000	0.000	2.000
62	62	3	0.2000	0.000	0.000	0.000	2.000
63	63	3	0.2000	0.000	0.000	0.000	2.000
64	64	3	0.2000	0.000	0.000	0.000	2.000
65	65	3	0.2000	0.000	0.000	0.000	2.000
66	66	3	0.2000	0.000	0.000	0.000	2.000
67	67	3	0.2000	0.000	0.000	0.000	2.000
68	68	3	0.2000	0.000	0.000	0.000	2.000
69	69	3	0.2000	0.000	0.000	0.000	2.000
70	70	3	0.2000	0.000	0.000	0.000	2.000
71	71	3	0.2000	0.000	0.000	0.000	2.000
72	72	3	0.2000	0.000	0.000	0.000	2.000
73	73	3	0.2000	0.000	0.000	0.000	2.000
74	74	3	0.2000	0.000	0.000	0.000	2.000
75	75	3	0.2000	0.000	0.000	0.000	2.000
76	76	3	0.1000	0.000	0.000	0.000	2.000

ELEMENT GROUP NO. 3

Pali1500_253215 :
2 75 0 1 0 0 0 0 0 0 0 0 0 0 1 0 0 1 0
.....
.....2D WALL ELEMENT.....
.....

element group behaviour throughout stage analysis

stage	status
1	inactive
2	active
3	active
4	active

material set no. 1

prop(1) young modulus 0.333500E+08
prop(2) modification time 0.00000
prop(3) new young modulus 0.00000
prop(4) poisson ratio 0.00000
prop(5) future 0.00000

no. of step variable items: 1

step	inertia multipier
1	1.000
2	1.000
3	1.000
4	1.000

element data

el	na	nb	mat	erc1	erc2	thick	area	inertia	wgt(-z)	by-i	by-j
1	1	2	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
2	2	3	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
3	3	4	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
4	4	5	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
5	5	6	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
6	6	7	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
7	7	8	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
8	8	9	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
9	9	10	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
10	10	11	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
11	11	12	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
12	12	13	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
13	13	14	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
14	14	15	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
15	15	16	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
16	16	17	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
17	17	18	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
18	18	19	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
19	19	20	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
20	20	21	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
21	21	22	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
22	22	23	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
23	23	24	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
24	24	25	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
25	25	26	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
26	26	27	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
27	27	28	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
28	28	29	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
29	29	30	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
30	30	31	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
31	31	32	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
32	32	33	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
33	33	34	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
34	34	35	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
35	35	36	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
36	36	37	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
37	37	38	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
38	38	39	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
39	39	40	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
40	40	41	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
41	41	42	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
42	42	43	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
43	43	44	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
44	44	45	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
45	45	46	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000

46	46	47	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
47	47	48	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
48	48	49	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
49	49	50	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
50	50	51	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
51	51	52	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
52	52	53	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
53	53	54	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
54	54	55	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
55	55	56	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
56	56	57	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
57	57	58	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
58	58	59	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
59	59	60	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
60	60	61	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
61	61	62	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
62	62	63	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
63	63	64	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
64	64	65	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
65	65	66	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
66	66	67	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
67	67	68	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
68	68	69	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
69	69	70	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
70	70	71	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
71	71	72	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
72	72	73	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
73	73	74	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
74	74	75	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
75	75	76	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000

```
+-------------------------------------------------------------------------------------------------------------------------+
|                   PARATIEPLUS(TM)   NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*              |
|                                                                                                                         |
|                                                ParatiePlus                                                              |
|                                  Exe Time :28 January 2022   16:22:47                                                   |
+-------------------------------------------------------------------------------------------------------------------------+


NO. OF NODAL LOADS  (NLOAD) ...................    0
NO. OF LOAD CURVES  (NLCUR) ...................    8
MAXIMUM POINTS/LCURVE (NPTM)...................    5
```

L O A D D A T A

LOAD FUNCTION NUMBER = 1
NUMBER OF TIME POINTS = 5

TIME VALUE	FUNCTION
0.00000	0.0000E+00
0.80000	0.0000E+00
1.00000	0.1000E+01
1.20000	0.0000E+00
5.00000	0.0000E+00

LOAD FUNCTION NUMBER = 2
NUMBER OF TIME POINTS = 5

TIME VALUE	FUNCTION
0.00000	0.0000E+00
1.80000	0.0000E+00
2.00000	0.1000E+01
2.20000	0.0000E+00
5.00000	0.0000E+00

LOAD FUNCTION NUMBER = 3
NUMBER OF TIME POINTS = 5

TIME VALUE	FUNCTION
0.00000	0.0000E+00
2.80000	0.0000E+00
3.00000	0.1000E+01
3.20000	0.0000E+00
5.00000	0.0000E+00

LOAD FUNCTION NUMBER = 4
NUMBER OF TIME POINTS = 5

TIME VALUE	FUNCTION
0.00000	0.0000E+00
3.80000	0.0000E+00
4.00000	0.1000E+01
4.20000	0.0000E+00
5.00000	0.0000E+00

LOAD FUNCTION NUMBER = 5
NUMBER OF TIME POINTS = 4

TIME VALUE	FUNCTION
0.00000	0.0000E+00
0.80000	0.0000E+00
1.00000	0.1000E+01
5.00000	0.1000E+01

LOAD FUNCTION NUMBER = 6
NUMBER OF TIME POINTS = 4

TIME VALUE	FUNCTION
0.00000	0.0000E+00
1.80000	0.0000E+00
2.00000	0.1000E+01
5.00000	0.1000E+01

LOAD FUNCTION NUMBER = 7
NUMBER OF TIME POINTS = 4

TIME VALUE FUNCTION

0.00000 0.0000E+00
2.80000 0.0000E+00
3.00000 0.1000E+01
5.00000 0.1000E+01

LOAD FUNCTION NUMBER = 8
NUMBER OF TIME POINTS = 4

TIME VALUE FUNCTION

0.00000 0.0000E+00
3.80000 0.0000E+00
4.00000 0.1000E+01
5.00000 0.1000E+01

PROCESSING DISTRIBUTED LOADS CARD NO. 1
AT Y-COORD 10.00 Z-COORD 333.0 PRESSURE 12.65
Z-COORD 339.0 PRESSURE 12.65
L.CURVE 4

NO. OF GENERATED NODAL FORCES 30

NODE	Z-LVL	FORCE /	NODE	Z-LVL	FORCE /	NODE	Z-LVL	FORCE /
30	0.3332E+03	0.2549869E+01 /	29	0.3334E+03	0.2574166E+01 /	28	0.3336E+03	0.2573533E+01 /
27	0.3338E+03	0.2573533E+01 /	26	0.3340E+03	0.2573533E+01 /	25	0.3342E+03	0.2573533E+01 /
24	0.3344E+03	0.2573533E+01 /	23	0.3346E+03	0.2573533E+01 /	22	0.3348E+03	0.2574166E+01 /
21	0.3350E+03	0.2574166E+01 /	20	0.3352E+03	0.2573533E+01 /	19	0.3354E+03	0.2573533E+01 /
18	0.3356E+03	0.2573533E+01 /	17	0.3358E+03	0.2573533E+01 /	16	0.3360E+03	0.2573533E+01 /
15	0.3362E+03	0.2573533E+01 /	14	0.3364E+03	0.2574166E+01 /	13	0.3366E+03	0.2574166E+01 /
12	0.3368E+03	0.2573533E+01 /	11	0.3370E+03	0.2573533E+01 /	10	0.3372E+03	0.2573533E+01 /
9	0.3374E+03	0.2573533E+01 /	8	0.3376E+03	0.2573533E+01 /	7	0.3378E+03	0.2573533E+01 /
6	0.3380E+03	0.2574166E+01 /	5	0.3382E+03	0.2574166E+01 /	4	0.3384E+03	0.2573533E+01 /
3	0.3386E+03	0.2573533E+01 /	2	0.3388E+03	0.2573533E+01 /	1	0.3390E+03	0.1286767E+01 /

OVERALL APPLIED Y FORCE FOR CURRENT DISTRIBUTED LOAD 75.900

PROCESSING DISTRIBUTED LOADS CARD NO. 2
AT Y-COORD 10.00 Z-COORD 333.0 PRESSURE 2.920
Z-COORD 339.0 PRESSURE 2.920
L.CURVE 4

NO. OF GENERATED NODAL FORCES 30

NODE	Z-LVL	FORCE /	NODE	Z-LVL	FORCE /	NODE	Z-LVL	FORCE /
30	0.3332E+03	0.5885864E+00 /	29	0.3334E+03	0.5941948E+00 /	28	0.3336E+03	0.5940488E+00 /
27	0.3338E+03	0.5940488E+00 /	26	0.3340E+03	0.5940488E+00 /	25	0.3342E+03	0.5940488E+00 /
24	0.3344E+03	0.5940488E+00 /	23	0.3346E+03	0.5940488E+00 /	22	0.3348E+03	0.5941948E+00 /
21	0.3350E+03	0.5941948E+00 /	20	0.3352E+03	0.5940488E+00 /	19	0.3354E+03	0.5940488E+00 /
18	0.3356E+03	0.5940488E+00 /	17	0.3358E+03	0.5940488E+00 /	16	0.3360E+03	0.5940488E+00 /
15	0.3362E+03	0.5940488E+00 /	14	0.3364E+03	0.5941948E+00 /	13	0.3366E+03	0.5941948E+00 /
12	0.3368E+03	0.5940488E+00 /	11	0.3370E+03	0.5940488E+00 /	10	0.3372E+03	0.5940488E+00 /
9	0.3374E+03	0.5940488E+00 /	8	0.3376E+03	0.5940488E+00 /	7	0.3378E+03	0.5940488E+00 /
6	0.3380E+03	0.5941948E+00 /	5	0.3382E+03	0.5941948E+00 /	4	0.3384E+03	0.5940488E+00 /
3	0.3386E+03	0.5940488E+00 /	2	0.3388E+03	0.5940488E+00 /	1	0.3390E+03	0.2970244E+00 /

OVERALL APPLIED Y FORCE FOR CURRENT DISTRIBUTED LOAD 17.520

NO. OF DISTRIBUTED LOAD CARDS 2

L O A D B A L A N C E

STEP 1 TOTAL APPLIED LOAD IN DIR. 2 Y-DISPL.F 0.0000000
STEP 1 TOTAL APPLIED LOAD IN DIR. 4 X-ROT. F 0.0000000

STEP 2 TOTAL APPLIED LOAD IN DIR. 2 Y-DISPL.F 0.0000000
STEP 2 TOTAL APPLIED LOAD IN DIR. 4 X-ROT. F 0.0000000

STEP 3 TOTAL APPLIED LOAD IN DIR. 2 Y-DISPL.F 0.0000000
STEP 3 TOTAL APPLIED LOAD IN DIR. 4 X-ROT. F 0.0000000

STEP 4 TOTAL APPLIED LOAD IN DIR. 2 Y-DISPL.F 93.420000
STEP 4 TOTAL APPLIED LOAD IN DIR. 4 X-ROT. F 0.0000000

LOAD INPUT SECTION COMPLETED

```
+-------------------------------------------------------------------------------------------------------------------------+
|                   PARATIEPLUS(TM)   NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*              |
|                                                                                                                         |
|                                                ParatiePlus                                                              |
|                                  Exe Time :28 January 2022   16:22:47                                                   |
+-------------------------------------------------------------------------------------------------------------------------+


NO. OF LAYERS ..............................    3
NO. OF DATA PER LAYER.......................  160
```

LAYER DESCRIPTORS FOR STEP NO. 1

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 1 FOR STEP NO. 1

ITEM NO. 1<NAME >= 12.000 (BOTH WALLS)
ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
ITEM NO. 3<LEVEL >= 343.00 (BOTH WALLS)
ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)
ITEM NO. 5<GAMMAD >= 19.000 (BOTH WALLS)
ITEM NO. 6<GAMMAB >= 9.0000 (BOTH WALLS)
ITEM NO. 7<GAMMAW >= 10.000 (BOTH WALLS)
ITEM NO. 8<U-COHE >= 10.000 (BOTH WALLS)
ITEM NO. 9<U-FRICT >= 31.000 (BOTH WALLS)
ITEM NO. 10<U-KA >= 0.30300 WALL NO. 1
ITEM NO. 11<U-KP >= 3.8030 WALL NO. 1
ITEM NO. 12<K0-NC >= 0.50000 (BOTH WALLS)
ITEM NO. 13<NEXP >= 0.50000 (BOTH WALLS)
ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)
ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)
ITEM NO. 17<EVC >= 40000. (BOTH WALLS)
ITEM NO. 18<EUR >= 0.12000E+06 (BOTH WALLS)
ITEM NO. 27<U-PERM >= 0.10000E-04 (BOTH WALLS)
ITEM NO. 58<U-TZKZ >= 10000. (BOTH WALLS)
ITEM NO. 60<U-TZDELT>= 25.000 (BOTH WALLS)
ITEM NO. 61<U-TZALPH>= 0.50000 (BOTH WALLS)
ITEM NO. 82<D-NATURE>= 1.0000 (BOTH WALLS)
ITEM NO. 83<D-LEVEL >= 343.00 (BOTH WALLS)
ITEM NO. 88<D-COHE >= 10.000 (BOTH WALLS)
ITEM NO. 89<D-FRICT >= 31.000 (BOTH WALLS)
ITEM NO. 90<D-KA >= 0.34000 WALL NO. 1
ITEM NO. 91<D-KP >= 4.5550 WALL NO. 1
ITEM NO. 107<D-PERM >= 0.10000E-04 (BOTH WALLS)
ITEM NO. 138<D-TZKZ >= 10000. (BOTH WALLS)
ITEM NO. 140<D-TZDELT>= 25.000 (BOTH WALLS)
ITEM NO. 141<D-TZALPH>= 0.50000 (BOTH WALLS)

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 2 FOR STEP NO. 1

ITEM NO. 1<NAME >= 13.000 (BOTH WALLS)
ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
ITEM NO. 3<LEVEL >= 335.00 (BOTH WALLS)
ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)
ITEM NO. 5<GAMMAD >= 20.000 (BOTH WALLS)
ITEM NO. 6<GAMMAB >= 10.000 (BOTH WALLS)
ITEM NO. 7<GAMMAW >= 10.000 (BOTH WALLS)
ITEM NO. 8<U-COHE >= 10.000 (BOTH WALLS)
ITEM NO. 9<U-FRICT >= 26.000 (BOTH WALLS)
ITEM NO. 10<U-KA >= 0.36800 WALL NO. 1
ITEM NO. 11<U-KP >= 2.8670 WALL NO. 1
ITEM NO. 12<K0-NC >= 0.56200 (BOTH WALLS)
ITEM NO. 13<NEXP >= 0.50000 (BOTH WALLS)
ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)
ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)
ITEM NO. 17<EVC >= 0.20000E+06 (BOTH WALLS)
ITEM NO. 18<EUR >= 0.60000E+06 (BOTH WALLS)
ITEM NO. 27<U-PERM >= 0.10000E-04 (BOTH WALLS)
ITEM NO. 58<U-TZKZ >= 10000. (BOTH WALLS)
ITEM NO. 60<U-TZDELT>= 25.000 (BOTH WALLS)
ITEM NO. 61<U-TZALPH>= 0.50000 (BOTH WALLS)
ITEM NO. 82<D-NATURE>= 1.0000 (BOTH WALLS)
ITEM NO. 83<D-LEVEL >= 0.0000 (BOTH WALLS)
ITEM NO. 88<D-COHE >= 10.000 (BOTH WALLS)
ITEM NO. 89<D-FRICT >= 26.000 (BOTH WALLS)
ITEM NO. 90<D-KA >= 0.41800 WALL NO. 1
ITEM NO. 91<D-KP >= 3.4040 WALL NO. 1
ITEM NO. 107<D-PERM >= 0.10000E-04 (BOTH WALLS)
ITEM NO. 138<D-TZKZ >= 10000. (BOTH WALLS)
ITEM NO. 140<D-TZDELT>= 25.000 (BOTH WALLS)
ITEM NO. 141<D-TZALPH>= 0.50000 (BOTH WALLS)

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 3 FOR STEP NO. 1

ITEM NO. 1<NAME >= 14.000 (BOTH WALLS)
ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
ITEM NO. 3<LEVEL >= 331.00 (BOTH WALLS)
ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)
ITEM NO. 5<GAMMAD >= 22.500 (BOTH WALLS)
ITEM NO. 6<GAMMAB >= 12.500 (BOTH WALLS)
ITEM NO. 7<GAMMAW >= 10.000 (BOTH WALLS)
ITEM NO. 8<U-COHE >= 50.000 (BOTH WALLS)
ITEM NO. 9<U-FRICT >= 27.000 (BOTH WALLS)

ITEM NO. 10<U-KA   >= 0.35500   WALL NO.   1
ITEM NO. 11<U-KP   >= 2.9980   WALL NO.   1
ITEM NO. 12<K0-NC   >= 0.50000   (BOTH WALLS)
ITEM NO. 13<NEXP   >= 0.50000   (BOTH WALLS)
ITEM NO. 14<OCR   >= 1.0000   (BOTH WALLS)
ITEM NO. 16<MODEL   >= 1.0000   (BOTH WALLS)
ITEM NO. 17<EVC   >= 0.10000E+06 (BOTH WALLS)
ITEM NO. 18<EUR   >= 0.30000E+06 (BOTH WALLS)
ITEM NO. 27<U-PERM >= 0.10000E-03 (BOTH WALLS)
ITEM NO. 58<U-TZKZ >= 20000.   (BOTH WALLS)
ITEM NO. 60<U-TZDELT>= 30.000   (BOTH WALLS)
ITEM NO. 61<U-TZALPH>= 0.50000   (BOTH WALLS)
ITEM NO. 82<D-NATURE>= 1.0000   (BOTH WALLS)
ITEM NO. 83<D-LEVEL >= 0.0000   (BOTH WALLS)
ITEM NO. 88<D-COHE >= 50.000   (BOTH WALLS)
ITEM NO. 89<D-FRICT >= 27.000   (BOTH WALLS)
ITEM NO. 90<D-KA   >= 0.40100   WALL NO.   1
ITEM NO. 91<D-KP   >= 3.6010   WALL NO.   1
ITEM NO. 107<D-PERM >= 0.10000E-03 (BOTH WALLS)
ITEM NO. 138<D-TZKZ >= 20000.   (BOTH WALLS)
ITEM NO. 140<D-TZDELT>= 30.000   (BOTH WALLS)
ITEM NO. 141<D-TZALPH>= 0.50000   (BOTH WALLS)

LAYER DESCRIPTORS FOR STEP NO.   2

 NON ZERO LAYER DESCRIPTORS FOR LAYER NO.   1 FOR STEP NO.   2

ITEM NO.   1<NAME   >= 12.000   (BOTH WALLS)
ITEM NO.   2<NATURE >= 1.0000   (BOTH WALLS)
ITEM NO.   3<LEVEL   >= 343.00   (BOTH WALLS)
ITEM NO.   4<WALL   >= 1.0000   (BOTH WALLS)
ITEM NO.   5<GAMMAD >= 19.000   (BOTH WALLS)
ITEM NO.   6<GAMMAB >= 9.0000   (BOTH WALLS)
ITEM NO.   7<GAMMAW >= 10.000   (BOTH WALLS)
ITEM NO.   8<U-COHE >= 10.000   (BOTH WALLS)
ITEM NO.   9<U-FRICT >= 31.000   (BOTH WALLS)
ITEM NO. 10<U-KA   >= 0.32200   WALL NO.   1
ITEM NO. 11<U-KP   >= 4.5550   WALL NO.   1
ITEM NO. 12<K0-NC   >= 0.50000   (BOTH WALLS)
ITEM NO. 13<NEXP   >= 0.50000   (BOTH WALLS)
ITEM NO. 14<OCR   >= 1.0000   (BOTH WALLS)
ITEM NO. 16<MODEL   >= 1.0000   (BOTH WALLS)
ITEM NO. 17<EVC   >= 40000.   (BOTH WALLS)
ITEM NO. 18<EUR   >= 0.12000E+06 (BOTH WALLS)
ITEM NO. 27<U-PERM >= 0.10000E-04 (BOTH WALLS)
ITEM NO. 58<U-TZKZ >= 10000.   (BOTH WALLS)
ITEM NO. 60<U-TZDELT>= 25.000   (BOTH WALLS)
ITEM NO. 61<U-TZALPH>= 0.50000   (BOTH WALLS)
ITEM NO. 82<D-NATURE>= 1.0000   (BOTH WALLS)
ITEM NO. 83<D-LEVEL >= 343.00   (BOTH WALLS)
ITEM NO. 88<D-COHE >= 10.000   (BOTH WALLS)
ITEM NO. 89<D-FRICT >= 31.000   (BOTH WALLS)
ITEM NO. 90<D-KA   >= 0.32000   WALL NO.   1
ITEM NO. 91<D-KP   >= 4.5550   WALL NO.   1
ITEM NO. 107<D-PERM >= 0.10000E-04 (BOTH WALLS)
ITEM NO. 138<D-TZKZ >= 10000.   (BOTH WALLS)
ITEM NO. 140<D-TZDELT>= 25.000   (BOTH WALLS)
ITEM NO. 141<D-TZALPH>= 0.50000   (BOTH WALLS)

 NON ZERO LAYER DESCRIPTORS FOR LAYER NO.   2 FOR STEP NO.   2

ITEM NO.   1<NAME   >= 13.000   (BOTH WALLS)
ITEM NO.   2<NATURE >= 1.0000   (BOTH WALLS)
ITEM NO.   3<LEVEL   >= 335.00   (BOTH WALLS)
ITEM NO.   4<WALL   >= 1.0000   (BOTH WALLS)
ITEM NO.   5<GAMMAD >= 20.000   (BOTH WALLS)
ITEM NO.   6<GAMMAB >= 10.000   (BOTH WALLS)
ITEM NO.   7<GAMMAW >= 10.000   (BOTH WALLS)
ITEM NO.   8<U-COHE >= 10.000   (BOTH WALLS)
ITEM NO.   9<U-FRICT >= 26.000   (BOTH WALLS)
ITEM NO. 10<U-KA   >= 0.49100   WALL NO.   1
ITEM NO. 11<U-KP   >= 3.4040   WALL NO.   1
ITEM NO. 12<K0-NC   >= 0.56200   (BOTH WALLS)
ITEM NO. 13<NEXP   >= 0.50000   (BOTH WALLS)
ITEM NO. 14<OCR   >= 1.0000   (BOTH WALLS)
ITEM NO. 16<MODEL   >= 1.0000   (BOTH WALLS)
ITEM NO. 17<EVC   >= 0.20000E+06 (BOTH WALLS)
ITEM NO. 18<EUR   >= 0.60000E+06 (BOTH WALLS)
ITEM NO. 27<U-PERM >= 0.10000E-04 (BOTH WALLS)
ITEM NO. 58<U-TZKZ >= 10000.   (BOTH WALLS)
ITEM NO. 60<U-TZDELT>= 25.000   (BOTH WALLS)
ITEM NO. 61<U-TZALPH>= 0.50000   (BOTH WALLS)
ITEM NO. 82<D-NATURE>= 1.0000   (BOTH WALLS)
ITEM NO. 83<D-LEVEL >= 0.0000   (BOTH WALLS)
ITEM NO. 88<D-COHE >= 10.000   (BOTH WALLS)
ITEM NO. 89<D-FRICT >= 26.000   (BOTH WALLS)
ITEM NO. 90<D-KA   >= 0.39000   WALL NO.   1
ITEM NO. 91<D-KP   >= 3.4040   WALL NO.   1
ITEM NO. 107<D-PERM >= 0.10000E-04 (BOTH WALLS)
ITEM NO. 138<D-TZKZ >= 10000.   (BOTH WALLS)
ITEM NO. 140<D-TZDELT>= 25.000   (BOTH WALLS)

ITEM NO. 141<D-TZALPH>= 0.50000 (BOTH WALLS)

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 3 FOR STEP NO. 2

ITEM NO. 1<NAME >= 14.000 (BOTH WALLS)
ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
ITEM NO. 3<LEVEL >= 331.00 (BOTH WALLS)
ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)
ITEM NO. 5<GAMMAD >= 22.500 (BOTH WALLS)
ITEM NO. 6<GAMMAB >= 12.500 (BOTH WALLS)
ITEM NO. 7<GAMMAW >= 10.000 (BOTH WALLS)
ITEM NO. 8<U-COHE >= 50.000 (BOTH WALLS)
ITEM NO. 9<U-FRICT >= 27.000 (BOTH WALLS)
ITEM NO. 10<U-KA >= 0.48100 WALL NO. 1
ITEM NO. 11<U-KP >= 3.6010 WALL NO. 1
ITEM NO. 12<K0-NC >= 0.50000 (BOTH WALLS)
ITEM NO. 13<NEXP >= 0.50000 (BOTH WALLS)
ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)
ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)
ITEM NO. 17<EVC >= 0.10000E+06 (BOTH WALLS)
ITEM NO. 18<EUR >= 0.30000E+06 (BOTH WALLS)
ITEM NO. 27<U-PERM >= 0.10000E-03 (BOTH WALLS)
ITEM NO. 58<U-TZKZ >= 20000. (BOTH WALLS)
ITEM NO. 60<U-TZDELT>= 30.000 (BOTH WALLS)
ITEM NO. 61<U-TZALPH>= 0.50000 (BOTH WALLS)
ITEM NO. 82<D-NATURE>= 1.0000 (BOTH WALLS)
ITEM NO. 83<D-LEVEL >= 0.0000 (BOTH WALLS)
ITEM NO. 88<D-COHE >= 50.000 (BOTH WALLS)
ITEM NO. 89<D-FRICT >= 27.000 (BOTH WALLS)
ITEM NO. 90<D-KA >= 0.37600 WALL NO. 1
ITEM NO. 91<D-KP >= 3.6010 WALL NO. 1
ITEM NO. 107<D-PERM >= 0.10000E-03 (BOTH WALLS)
ITEM NO. 138<D-TZKZ >= 20000. (BOTH WALLS)
ITEM NO. 140<D-TZDELT>= 30.000 (BOTH WALLS)
ITEM NO. 141<D-TZALPH>= 0.50000 (BOTH WALLS)

LAYER DESCRIPTORS FOR STEP NO. 3

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 1 FOR STEP NO. 3

ITEM NO. 1<NAME >= 12.000 (BOTH WALLS)
ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
ITEM NO. 3<LEVEL >= 343.00 (BOTH WALLS)
ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)
ITEM NO. 5<GAMMAD >= 19.000 (BOTH WALLS)
ITEM NO. 6<GAMMAB >= 9.0000 (BOTH WALLS)
ITEM NO. 7<GAMMAW >= 10.000 (BOTH WALLS)
ITEM NO. 8<U-COHE >= 10.000 (BOTH WALLS)
ITEM NO. 9<U-FRICT >= 31.000 (BOTH WALLS)
ITEM NO. 10<U-KA >= 0.32200 WALL NO. 1
ITEM NO. 11<U-KP >= 4.5550 WALL NO. 1
ITEM NO. 12<K0-NC >= 0.50000 (BOTH WALLS)
ITEM NO. 13<NEXP >= 0.50000 (BOTH WALLS)
ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)
ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)
ITEM NO. 17<EVC >= 40000. (BOTH WALLS)
ITEM NO. 18<EUR >= 0.12000E+06 (BOTH WALLS)
ITEM NO. 27<U-PERM >= 0.10000E-04 (BOTH WALLS)
ITEM NO. 58<U-TZKZ >= 10000. (BOTH WALLS)
ITEM NO. 60<U-TZDELT>= 25.000 (BOTH WALLS)
ITEM NO. 61<U-TZALPH>= 0.50000 (BOTH WALLS)
ITEM NO. 82<D-NATURE>= 1.0000 (BOTH WALLS)
ITEM NO. 83<D-LEVEL >= 343.00 (BOTH WALLS)
ITEM NO. 88<D-COHE >= 10.000 (BOTH WALLS)
ITEM NO. 89<D-FRICT >= 31.000 (BOTH WALLS)
ITEM NO. 90<D-KA >= 0.32000 WALL NO. 1
ITEM NO. 91<D-KP >= 4.5550 WALL NO. 1
ITEM NO. 107<D-PERM >= 0.10000E-04 (BOTH WALLS)
ITEM NO. 138<D-TZKZ >= 10000. (BOTH WALLS)
ITEM NO. 140<D-TZDELT>= 25.000 (BOTH WALLS)
ITEM NO. 141<D-TZALPH>= 0.50000 (BOTH WALLS)

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 2 FOR STEP NO. 3

ITEM NO. 1<NAME >= 13.000 (BOTH WALLS)
ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
ITEM NO. 3<LEVEL >= 335.00 (BOTH WALLS)
ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)
ITEM NO. 5<GAMMAD >= 20.000 (BOTH WALLS)
ITEM NO. 6<GAMMAB >= 10.000 (BOTH WALLS)
ITEM NO. 7<GAMMAW >= 10.000 (BOTH WALLS)
ITEM NO. 8<U-COHE >= 10.000 (BOTH WALLS)
ITEM NO. 9<U-FRICT >= 26.000 (BOTH WALLS)
ITEM NO. 10<U-KA >= 0.49100 WALL NO. 1
ITEM NO. 11<U-KP >= 3.4040 WALL NO. 1
ITEM NO. 12<K0-NC >= 0.56200 (BOTH WALLS)
ITEM NO. 13<NEXP >= 0.50000 (BOTH WALLS)
ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)
ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)
ITEM NO. 17<EVC >= 0.20000E+06 (BOTH WALLS)
ITEM NO. 18<EUR >= 0.60000E+06 (BOTH WALLS)

ITEM NO. 27<U-PERM >= 0.10000E-04 (BOTH WALLS)
ITEM NO. 58<U-TZKZ >= 10000.   (BOTH WALLS)
ITEM NO. 60<U-TZDELT>= 25.000   (BOTH WALLS)
ITEM NO. 61<U-TZALPH>= 0.50000   (BOTH WALLS)
ITEM NO. 82<D-NATURE>= 1.0000   (BOTH WALLS)
ITEM NO. 83<D-LEVEL >= 0.0000   (BOTH WALLS)
ITEM NO. 88<D-COHE >= 10.000   (BOTH WALLS)
ITEM NO. 89<D-FRICT >= 26.000   (BOTH WALLS)
ITEM NO. 90<D-KA   >= 0.39000   WALL NO.   1
ITEM NO. 91<D-KP   >= 3.4040   WALL NO.   1
ITEM NO. 107<D-PERM >= 0.10000E-04 (BOTH WALLS)
ITEM NO. 138<D-TZKZ >= 10000.   (BOTH WALLS)
ITEM NO. 140<D-TZDELT>= 25.000   (BOTH WALLS)
ITEM NO. 141<D-TZALPH>= 0.50000   (BOTH WALLS)

 NON ZERO LAYER DESCRIPTORS FOR LAYER NO.   3 FOR STEP NO.   3

ITEM NO.   1<NAME   >= 14.000   (BOTH WALLS)
ITEM NO.   2<NATURE >= 1.0000   (BOTH WALLS)
ITEM NO.   3<LEVEL   >= 331.00   (BOTH WALLS)
ITEM NO.   4<WALL   >= 1.0000   (BOTH WALLS)
ITEM NO.   5<GAMMAD >= 22.500   (BOTH WALLS)
ITEM NO.   6<GAMMAB >= 12.500   (BOTH WALLS)
ITEM NO.   7<GAMMAW >= 10.000   (BOTH WALLS)
ITEM NO.   8<U-COHE >= 50.000   (BOTH WALLS)
ITEM NO.   9<U-FRICT >= 27.000   (BOTH WALLS)
ITEM NO. 10<U-KA   >= 0.48100   WALL NO.   1
ITEM NO. 11<U-KP   >= 3.6010   WALL NO.   1
ITEM NO. 12<K0-NC   >= 0.50000   (BOTH WALLS)
ITEM NO. 13<NEXP   >= 0.50000   (BOTH WALLS)
ITEM NO. 14<OCR   >= 1.0000   (BOTH WALLS)
ITEM NO. 16<MODEL   >= 1.0000   (BOTH WALLS)
ITEM NO. 17<EVC   >= 0.10000E+06 (BOTH WALLS)
ITEM NO. 18<EUR   >= 0.30000E+06 (BOTH WALLS)
ITEM NO. 27<U-PERM >= 0.10000E-03 (BOTH WALLS)
ITEM NO. 58<U-TZKZ >= 20000.   (BOTH WALLS)
ITEM NO. 60<U-TZDELT>= 30.000   (BOTH WALLS)
ITEM NO. 61<U-TZALPH>= 0.50000   (BOTH WALLS)
ITEM NO. 82<D-NATURE>= 1.0000   (BOTH WALLS)
ITEM NO. 83<D-LEVEL >= 0.0000   (BOTH WALLS)
ITEM NO. 88<D-COHE >= 50.000   (BOTH WALLS)
ITEM NO. 89<D-FRICT >= 27.000   (BOTH WALLS)
ITEM NO. 90<D-KA   >= 0.37600   WALL NO.   1
ITEM NO. 91<D-KP   >= 3.6010   WALL NO.   1
ITEM NO. 107<D-PERM >= 0.10000E-03 (BOTH WALLS)
ITEM NO. 138<D-TZKZ >= 20000.   (BOTH WALLS)
ITEM NO. 140<D-TZDELT>= 30.000   (BOTH WALLS)
ITEM NO. 141<D-TZALPH>= 0.50000   (BOTH WALLS)

LAYER DESCRIPTORS FOR STEP NO.   4

 NON ZERO LAYER DESCRIPTORS FOR LAYER NO.   1 FOR STEP NO.   4

ITEM NO.   1<NAME   >= 12.000   (BOTH WALLS)
ITEM NO.   2<NATURE >= 1.0000   (BOTH WALLS)
ITEM NO.   3<LEVEL   >= 343.00   (BOTH WALLS)
ITEM NO.   4<WALL   >= 1.0000   (BOTH WALLS)
ITEM NO.   5<GAMMAD >= 19.000   (BOTH WALLS)
ITEM NO.   6<GAMMAB >= 9.0000   (BOTH WALLS)
ITEM NO.   7<GAMMAW >= 10.000   (BOTH WALLS)
ITEM NO.   8<U-COHE >= 10.000   (BOTH WALLS)
ITEM NO.   9<U-FRICT >= 31.000   (BOTH WALLS)
ITEM NO. 10<U-KA   >= 0.32200   WALL NO.   1
ITEM NO. 11<U-KP   >= 4.5550   WALL NO.   1
ITEM NO. 12<K0-NC   >= 0.50000   (BOTH WALLS)
ITEM NO. 13<NEXP   >= 0.50000   (BOTH WALLS)
ITEM NO. 14<OCR   >= 1.0000   (BOTH WALLS)
ITEM NO. 16<MODEL   >= 1.0000   (BOTH WALLS)
ITEM NO. 17<EVC   >= 40000.   (BOTH WALLS)
ITEM NO. 18<EUR   >= 0.12000E+06 (BOTH WALLS)
ITEM NO. 27<U-PERM >= 0.10000E-04 (BOTH WALLS)
ITEM NO. 47<U-KAED >= 0.44088   WALL NO.   1
ITEM NO. 48<U-KAEW >= 0.58140   WALL NO.   1
ITEM NO. 49<U-KPED >= 4.4410   WALL NO.   1
ITEM NO. 50<U-KPEW >= 3.7963   WALL NO.   1
ITEM NO. 58<U-TZKZ >= 10000.   (BOTH WALLS)
ITEM NO. 60<U-TZDELT>= 25.000   (BOTH WALLS)
ITEM NO. 61<U-TZALPH>= 0.50000   (BOTH WALLS)
ITEM NO. 82<D-NATURE>= 1.0000   (BOTH WALLS)
ITEM NO. 83<D-LEVEL >= 343.00   (BOTH WALLS)
ITEM NO. 88<D-COHE >= 10.000   (BOTH WALLS)
ITEM NO. 89<D-FRICT >= 31.000   (BOTH WALLS)
ITEM NO. 90<D-KA   >= 0.32000   WALL NO.   1
ITEM NO. 91<D-KP   >= 4.5550   WALL NO.   1
ITEM NO. 107<D-PERM >= 0.10000E-04 (BOTH WALLS)
ITEM NO. 127<D-KAED >= 0.39225   WALL NO.   1
ITEM NO. 128<D-KAEW >= 0.54154   WALL NO.   1
ITEM NO. 129<D-KPED >= 3.7685   WALL NO.   1
ITEM NO. 130<D-KPEW >= 3.0916   WALL NO.   1
ITEM NO. 138<D-TZKZ >= 10000.   (BOTH WALLS)
ITEM NO. 140<D-TZDELT>= 25.000   (BOTH WALLS)

ITEM NO. 141<D-TZALPH>= 0.50000 (BOTH WALLS)

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 2 FOR STEP NO. 4

ITEM NO. 1<NAME >= 13.000 (BOTH WALLS)
ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
ITEM NO. 3<LEVEL >= 335.00 (BOTH WALLS)
ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)
ITEM NO. 5<GAMMAD >= 20.000 (BOTH WALLS)
ITEM NO. 6<GAMMAB >= 10.000 (BOTH WALLS)
ITEM NO. 7<GAMMAW >= 10.000 (BOTH WALLS)
ITEM NO. 8<U-COHE >= 10.000 (BOTH WALLS)
ITEM NO. 9<U-FRICT >= 26.000 (BOTH WALLS)
ITEM NO. 10<U-KA >= 0.49100 WALL NO. 1
ITEM NO. 11<U-KP >= 3.4040 WALL NO. 1
ITEM NO. 12<K0-NC >= 0.56200 (BOTH WALLS)
ITEM NO. 13<NEXP >= 0.50000 (BOTH WALLS)
ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)
ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)
ITEM NO. 17<EVC >= 0.20000E+06 (BOTH WALLS)
ITEM NO. 18<EUR >= 0.60000E+06 (BOTH WALLS)
ITEM NO. 27<U-PERM >= 0.10000E-04 (BOTH WALLS)
ITEM NO. 47<U-KAED >= 0.75840 WALL NO. 1
ITEM NO. 48<U-KAEW >= 1.1113 WALL NO. 1
ITEM NO. 49<U-KPED >= 3.2803 WALL NO. 1
ITEM NO. 50<U-KPEW >= 2.7847 WALL NO. 1
ITEM NO. 58<U-TZKZ >= 10000. (BOTH WALLS)
ITEM NO. 60<U-TZDELT>= 25.000 (BOTH WALLS)
ITEM NO. 61<U-TZALPH>= 0.50000 (BOTH WALLS)
ITEM NO. 82<D-NATURE>= 1.0000 (BOTH WALLS)
ITEM NO. 83<D-LEVEL >= 0.0000 (BOTH WALLS)
ITEM NO. 88<D-COHE >= 10.000 (BOTH WALLS)
ITEM NO. 89<D-FRICT >= 26.000 (BOTH WALLS)
ITEM NO. 90<D-KA >= 0.39000 WALL NO. 1
ITEM NO. 91<D-KP >= 3.4040 WALL NO. 1
ITEM NO. 107<D-PERM >= 0.10000E-04 (BOTH WALLS)
ITEM NO. 127<D-KAED >= 0.46829 WALL NO. 1
ITEM NO. 128<D-KAEW >= 0.62500 WALL NO. 1
ITEM NO. 129<D-KPED >= 2.7754 WALL NO. 1
ITEM NO. 130<D-KPEW >= 2.2487 WALL NO. 1
ITEM NO. 138<D-TZKZ >= 10000. (BOTH WALLS)
ITEM NO. 140<D-TZDELT>= 25.000 (BOTH WALLS)
ITEM NO. 141<D-TZALPH>= 0.50000 (BOTH WALLS)

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 3 FOR STEP NO. 4

ITEM NO. 1<NAME >= 14.000 (BOTH WALLS)
ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
ITEM NO. 3<LEVEL >= 331.00 (BOTH WALLS)
ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)
ITEM NO. 5<GAMMAD >= 22.500 (BOTH WALLS)
ITEM NO. 6<GAMMAB >= 12.500 (BOTH WALLS)
ITEM NO. 7<GAMMAW >= 10.000 (BOTH WALLS)
ITEM NO. 8<U-COHE >= 50.000 (BOTH WALLS)
ITEM NO. 9<U-FRICT >= 27.000 (BOTH WALLS)
ITEM NO. 10<U-KA >= 0.48100 WALL NO. 1
ITEM NO. 11<U-KP >= 3.6010 WALL NO. 1
ITEM NO. 12<K0-NC >= 0.50000 (BOTH WALLS)
ITEM NO. 13<NEXP >= 0.50000 (BOTH WALLS)
ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)
ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)
ITEM NO. 17<EVC >= 0.10000E+06 (BOTH WALLS)
ITEM NO. 18<EUR >= 0.30000E+06 (BOTH WALLS)
ITEM NO. 27<U-PERM >= 0.10000E-03 (BOTH WALLS)
ITEM NO. 47<U-KAED >= 0.76054 WALL NO. 1
ITEM NO. 48<U-KAEW >= 1.0770 WALL NO. 1
ITEM NO. 49<U-KPED >= 3.4777 WALL NO. 1
ITEM NO. 50<U-KPEW >= 3.0819 WALL NO. 1
ITEM NO. 58<U-TZKZ >= 20000. (BOTH WALLS)
ITEM NO. 60<U-TZDELT>= 30.000 (BOTH WALLS)
ITEM NO. 61<U-TZALPH>= 0.50000 (BOTH WALLS)
ITEM NO. 82<D-NATURE>= 1.0000 (BOTH WALLS)
ITEM NO. 83<D-LEVEL >= 0.0000 (BOTH WALLS)
ITEM NO. 88<D-COHE >= 50.000 (BOTH WALLS)
ITEM NO. 89<D-FRICT >= 27.000 (BOTH WALLS)
ITEM NO. 90<D-KA >= 0.37600 WALL NO. 1
ITEM NO. 91<D-KP >= 3.6010 WALL NO. 1
ITEM NO. 107<D-PERM >= 0.10000E-03 (BOTH WALLS)
ITEM NO. 127<D-KAED >= 0.45252 WALL NO. 1
ITEM NO. 128<D-KAEW >= 0.56751 WALL NO. 1
ITEM NO. 129<D-KPED >= 2.9451 WALL NO. 1
ITEM NO. 130<D-KPEW >= 2.5269 WALL NO. 1
ITEM NO. 138<D-TZKZ >= 20000. (BOTH WALLS)
ITEM NO. 140<D-TZDELT>= 30.000 (BOTH WALLS)
ITEM NO. 141<D-TZALPH>= 0.50000 (BOTH WALLS)

DEFAULT WATER UNIT WEIGHT = 10.000
AVERAGED ON 12 VALUES

```
+-----------------------------------------------------------------------------------------------------------------------+
|                   PARATIEPLUS(TM)   NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*             |
|                                                                                                                       |
|                                                ParatiePlus                                                            |
|                                  Exe Time :28 January 2022   16:22:47                                                 |
+-----------------------------------------------------------------------------------------------------------------------+

PHASE DESCRIPTORS


STEP  NO.     1 no. of subincrements     1
                                       LEFT WALL    RIGHT WALL
Y                                       10.00       -0.9990E+30
Z-PC                                    343.0         0.000
Z-EXCAVATION                            343.0         0.000
Z-WATER_TABLE                           337.5       -0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL               0.000         0.000
ZQ                                      0.000         0.000
DZW_OF_THE_WATER_TABLE                 -0.6605E-01    0.000
QS_ON_THE_EXCAVATION_SIDE               0.000         0.000
ZQS                                     0.000       -0.9990E+30
ZCUT                                    0.000         0.000
BALANCE LEVEL FOR PORE PRESSURES        324.0         324.0
WATER_BEHAVIOUR_FLAG (LINING OPT)       0.000         0.000
PORE_UPDATE_FLAG                        0.000         0.000
PORE_TAB. _FLAG (gt.0= use tabs)        0.000         0.000
lateral thrusts reduction elevatio      0.000         0.000
Downhill reduction factor for effe      0.000         0.000
Downhill reduction factor for pore      0.000         0.000
Uphill reduction factor for effect      0.000         0.000
Uphill reduction factor for pore p      0.000         0.000
SEISMIC HORIZONTAL ACCEL. Kh [g]        0.000         0.000
UPHILL VERTICAL ACCEL.  Kv_uh [g]       0.000         0.000
DOWNHILL VERTICAL ACCEL.Kv_dh [g]       0.000         0.000
UPHILL BETA ANGLE (SLOPE) [deg]         0.000         0.000
UPHILL DELTA/PHI RATIO                  0.000         0.000
DOWNHILL BETA ANGLE (SLOPE) [deg]       0.000         0.000
DOWNHILL DELTA/PHI RATIO                0.000         0.000
DYN.WATER BEHAVIOUR                     0.000         0.000
Excess pore pressure RATIO Ru           0.000         0.000
SEISMIC PRESSURE LOWER VALUE            0.000         0.000
SEISMIC PRESSURE UPPER VALUE            0.000         0.000
SEISMIC PRESSURE LOWER LEVEL            0.000         0.000
SEISMIC PRESSURE UPPER LEVEL            0.000         0.000

=============================================================================================================end of step    1


STEP  NO.     2 no. of subincrements     1
                                       LEFT WALL    RIGHT WALL
Y                                       10.00       -0.9990E+30
Z-PC                                    339.0         0.000
Z-EXCAVATION                            339.0         0.000
Z-WATER_TABLE                           337.5       -0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL               0.000         0.000
ZQ                                      0.000         0.000
DZW_OF_THE_WATER_TABLE                 -0.3933E-01    0.000
QS_ON_THE_EXCAVATION_SIDE               0.000         0.000
ZQS                                     0.000       -0.9990E+30
ZCUT                                    0.000         0.000
BALANCE LEVEL FOR PORE PRESSURES        324.0         324.0
WATER_BEHAVIOUR_FLAG (LINING OPT)       0.000         0.000
PORE_UPDATE_FLAG                        0.000         0.000
PORE_TAB. _FLAG (gt.0= use tabs)        0.000         0.000
lateral thrusts reduction elevatio      0.000         0.000
Downhill reduction factor for effe      0.000         0.000
Downhill reduction factor for pore      0.000         0.000
Uphill reduction factor for effect      0.000         0.000
Uphill reduction factor for pore p      0.000         0.000
SEISMIC HORIZONTAL ACCEL. Kh [g]        0.000         0.000
UPHILL VERTICAL ACCEL.  Kv_uh [g]       0.000         0.000
DOWNHILL VERTICAL ACCEL.Kv_dh [g]       0.000         0.000
UPHILL BETA ANGLE (SLOPE) [deg]         0.000         0.000
UPHILL DELTA/PHI RATIO                  0.000         0.000
DOWNHILL BETA ANGLE (SLOPE) [deg]       0.000         0.000
DOWNHILL DELTA/PHI RATIO                0.000         0.000
DYN.WATER BEHAVIOUR                     0.000         0.000
Excess pore pressure RATIO Ru           0.000         0.000
SEISMIC PRESSURE LOWER VALUE            0.000         0.000
SEISMIC PRESSURE UPPER VALUE            0.000         0.000
SEISMIC PRESSURE LOWER LEVEL            0.000         0.000
SEISMIC PRESSURE UPPER LEVEL            0.000         0.000

=============================================================================================================end of step    2


STEP  NO.     3 no. of subincrements     1
                                       LEFT WALL    RIGHT WALL
Y                                       10.00       -0.9990E+30
```

Z-PC	339.0	0.000
Z-EXCAVATION	333.0	0.000
Z-WATER_TABLE	337.5	-0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL	0.000	0.000
ZQ	0.000	0.000
DZW_OF_THE_WATER_TABLE	4.973	0.000
QS_ON_THE_EXCAVATION_SIDE	0.000	0.000
ZQS	0.000	-0.9990E+30
ZCUT	0.000	0.000
BALANCE LEVEL FOR PORE PRESSURES	324.0	324.0
WATER_BEHAVIOUR_FLAG (LINING OPT)	0.000	0.000
PORE_UPDATE_FLAG	0.000	0.000
PORE_TAB. _FLAG (gt.0= use tabs)	0.000	0.000
lateral thrusts reduction elevatio	0.000	0.000
Downhill reduction factor for effe	0.000	0.000
Downhill reduction factor for pore	0.000	0.000
Uphill reduction factor for effect	0.000	0.000
Uphill reduction factor for pore p	0.000	0.000
SEISMIC HORIZONTAL ACCEL. Kh [g]	0.000	0.000
UPHILL VERTICAL ACCEL. Kv_uh [g]	0.000	0.000
DOWNHILL VERTICAL ACCEL.Kv_dh [g]	0.000	0.000
UPHILL BETA ANGLE (SLOPE) [deg]	0.000	0.000
UPHILL DELTA/PHI RATIO	0.000	0.000
DOWNHILL BETA ANGLE (SLOPE) [deg]	0.000	0.000
DOWNHILL DELTA/PHI RATIO	0.000	0.000
DYN.WATER BEHAVIOUR	0.000	0.000
Excess pore pressure RATIO Ru	0.000	0.000
SEISMIC PRESSURE LOWER VALUE	0.000	0.000
SEISMIC PRESSURE UPPER VALUE	0.000	0.000
SEISMIC PRESSURE LOWER LEVEL	0.000	0.000
SEISMIC PRESSURE UPPER LEVEL	0.000	0.000

==========end of step   3

STEP NO.   4 no. of subincrements   1

	LEFT WALL	RIGHT WALL
Y	10.00	-0.9990E+30
Z-PC	339.0	0.000
Z-EXCAVATION	333.0	0.000
Z-WATER_TABLE	337.5	-0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL	0.000	0.000
ZQ	0.000	0.000
DZW_OF_THE_WATER_TABLE	4.973	0.000
QS_ON_THE_EXCAVATION_SIDE	0.000	0.000
ZQS	0.000	-0.9990E+30
ZCUT	0.000	0.000
BALANCE LEVEL FOR PORE PRESSURES	324.0	324.0
WATER_BEHAVIOUR_FLAG (LINING OPT)	0.000	0.000
PORE_UPDATE_FLAG	0.000	0.000
PORE_TAB. _FLAG (gt.0= use tabs)	0.000	0.000
lateral thrusts reduction elevatio	0.000	0.000
Downhill reduction factor for effe	0.000	0.000
Downhill reduction factor for pore	0.000	0.000
Uphill reduction factor for effect	0.000	0.000
Uphill reduction factor for pore p	0.000	0.000
SEISMIC HORIZONTAL ACCEL. Kh [g]	-0.1454	0.000
	MANUAL	
UPHILL VERTICAL ACCEL. Kv_uh [g]	0.7270E-01	0.000
DOWNHILL VERTICAL ACCEL.Kv_dh [g]	-0.7270E-01	0.000
UPHILL BETA ANGLE (SLOPE) [deg]	0.000	0.000
UPHILL DELTA/PHI RATIO	0.5000	0.000
DOWNHILL BETA ANGLE (SLOPE) [deg]	0.000	0.000
DOWNHILL DELTA/PHI RATIO	0.5000	0.000
DYN.WATER BEHAVIOUR	0.000	0.000
Excess pore pressure RATIO Ru	0.000	0.000
SEISMIC PRESSURE LOWER VALUE	0.000	0.000
SEISMIC PRESSURE UPPER VALUE	0.000	0.000
SEISMIC PRESSURE LOWER LEVEL	0.000	0.000
SEISMIC PRESSURE UPPER LEVEL	0.000	0.000

==========end of step   4

LEFT-HAND WALL

LOWER LEVEL   324.00000
UPPER LEVEL   339.00000

RIGHT-HAND WALL

LOWER LEVEL   324.00000
UPPER LEVEL   339.00000

ELEMENT GROUPS BACKUP AREA CAN STAY IN CORE AT
POSITION   5556

NO. OF D.P.W FOR THIS AREA   11615

```
 MAX NO. OF D.P.W. AVAILABLE      81920
 ** MAX NO OF ITERATIONS SET TO          80

ITER     0 RNORM = 0.000     RMNORM= 0.000
           RINORM=0.1526E+06 RIMNOR= 0.000
           RENORM=0.4913E-01 REMNOR= 0.000     RATIO =0.5675E-03 TOLER =0.1000E-03  NOT CONVERGED
           RFMAX = 51.81     RMMAX = 0.000
           RTSMAL=0.1000E-03 RMSMAL= 0.000
           RDT   =0.1526E+06 RDR   = 0.000
           RATIOT=0.5675E-03 RATIOR= 0.000
           MAX UN= 0.000     IEQ=   152 NODE     76 DOF   2   X-ROT. F
           MIN UN=-.6510E-01 IEQ=    17 NODE      9 DOF   1  Y-DISPL.F
           NO. OF CONTACT CONSTRAINT VIOLATIONS     0


ITER     2 RNORM = 0.000     RMNORM= 0.000
           RINORM=0.1526E+06 RIMNOR= 0.000
           RENORM=0.1130E-26 REMNOR= 0.000     RATIO =0.8605E-16 TOLER =0.1000E-03      CONVERGED !
           RFMAX = 51.81     RMMAX = 0.000
           RTSMAL=0.1000E-03 RMSMAL= 0.000
           RDT   =0.1526E+06 RDR   = 0.000
           RATIOT=0.8605E-16 RATIOR= 0.000
           MAX UN=0.1421E-13 IEQ=   105 NODE     53 DOF   1  Y-DISPL.F
           MIN UN=-.1421E-13 IEQ=    99 NODE     50 DOF   1  Y-DISPL.F
           NO. OF CONTACT CONSTRAINT VIOLATIONS     0
```

```
+-----------------------------------------------------------------------------------------------------------------------+
|                  PARATIEPLUS(TM)   NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*             |
|                                                                                                                       |
|                                                ParatiePlus                                                            |
|                                  Exe Time :28 January 2022   16:22:47                                                 |
+-----------------------------------------------------------------------------------------------------------------------+
New Project
SOLUTION REACHED USING     2 ITERATIONS ON   80

P R I N T   O U T   F O R   T I M E   S T E P   1     ( AT TIME   1.000     ) SUBINCREMENT 00001/00001

PRINT OUT OF ACTIVE COMPONENTS (FIXED NODES ARE NOT PRINTED OUT)

          Y-DISPL.F        X-ROT. F
            02               04
    9  -3.1528369E-06    0.000000
   10  -3.0640234E-06    0.000000
   11  -2.9752098E-06    0.000000
   12  -2.8863963E-06    0.000000
   13  -2.7975827E-06    0.000000
   14  -2.7087247E-06    0.000000
   15  -2.6199112E-06    0.000000
   16  -2.5310976E-06    0.000000
   17  -2.4422841E-06    0.000000
   18  -2.3534705E-06    0.000000
   19  -2.2646569E-06    0.000000
   20  -2.1758434E-06    0.000000
   21  -3.5283727E-07    0.000000
   22  -3.3781477E-07    0.000000
   23  -3.2279978E-07    0.000000
   24  -3.0778479E-07    0.000000
   25  -2.9276980E-07    0.000000
   26  -2.7775481E-07    0.000000
   27  -2.6273981E-07    0.000000
   28  -2.4772482E-07    0.000000
   29  -2.3270983E-07    0.000000
   30  -2.1768734E-07    0.000000
   31  -2.0267234E-07    0.000000
   32  -1.8765735E-07    0.000000
   33  -1.7264236E-07    0.000000
   34  -1.5762737E-07    0.000000
   35  -1.4261238E-07    0.000000
   36  -1.2759739E-07    0.000000
   37  -1.1258240E-07    0.000000
   38  -9.7559902E-08    0.000000
   39  -8.2544911E-08    0.000000
   40  -6.7529921E-08    0.000000
   41  -1.2089843E-07    0.000000
   42  -1.1744394E-07    0.000000
   43  -1.1398946E-07    0.000000
   44  -1.1053497E-07    0.000000
   45  -1.0708048E-07    0.000000
   46  -1.0362599E-07    0.000000
   47  -1.0016978E-07    0.000000
   48  -9.6715290E-08    0.000000
   49  -9.3260803E-08    0.000000
   50  -8.9806315E-08    0.000000
   51  -8.6351827E-08    0.000000
   52  -8.2897340E-08    0.000000
   53  -7.9442852E-08    0.000000
   54  -7.5988364E-08    0.000000
   55  -7.2532149E-08    0.000000
   56  -6.9077662E-08    0.000000
   57  -6.5623174E-08    0.000000
   58  -6.2168687E-08    0.000000
   59  -5.8714199E-08    0.000000
   60  -5.5259711E-08    0.000000
   61  -5.1805224E-08    0.000000
   62  -4.8350736E-08    0.000000
   63  -4.4894521E-08    0.000000
   64  -4.1440034E-08    0.000000
   65  -3.7985546E-08    0.000000
   66  -3.4531058E-08    0.000000
   67  -3.1076571E-08    0.000000
   68  -2.7622083E-08    0.000000
   69  -2.4167595E-08    0.000000
   70  -2.0713108E-08    0.000000
   71  -1.7256893E-08    0.000000
   72  -1.3802405E-08    0.000000
   73  -1.0347918E-08    0.000000
   74  -6.8934301E-09    0.000000
   75  -3.4389424E-09    0.000000
```

```
+------------------------------------------------------------------------------------------------------------------------+
|                    PARATIEPLUS(TM)   NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*             |
|                                                                                                                        |
|                                                   ParatiePlus                                                          |
|                                    Exe Time :28 January 2022   16:22:47                                                |
+------------------------------------------------------------------------------------------------------------------------+
New Project


S T R E S S   R E S U L T S   F O R   G R O U P  N O.   1

0_L                                                             :
ELEMENT TYPE    5 NO.OF ELEMENTS. IN THIS GROUP   76
C U R R E N T   T I M E   I S      1.0000 SUBINCREMENT 00001/00001

 HARDENING 2D SOIL ELEMENT

 ****** TOTAL STRESS FORMULATION *****

  EL *  FORCE     DISPL-Y  VERTICAL-P  HORIZON.-P     MAX-V-P     MAX-H-P          STATE   STIFFNESS Z-LEVEL      PORE        E FAC-
TOR    UFACTOR       Peq          Su_a        Su_p       Cohe_a      Cohe_p     LAYER                              ZFO         QS
QSL         ZD           ZPL          Kz
------------------------------------------------------------------------------------------------------------------------------------
------------------------------------------------------------------------------------------------------------------------------------
---------------------------------------------
   1 D  3.800      0.000      76.00       38.00       76.00       38.00          V-C  3.5350E+04   339.0       0.000
1.000      1.000      38.00      0.000       0.000       0.000       0.000     Aate_364268_2050_L_0              0.0000
0.0000     0.0000     0.0000     0.0000      0.0000
   2 D  7.980      0.000      79.80       39.90       79.80       39.90          V-C  3.5350E+04   338.8       0.000
1.000      1.000      39.90      0.000       0.000       0.000       0.000     Aate_364268_2050_L_0              0.0000
0.0000     0.0000     0.0000     0.0000      0.0000
   3 D  8.360      0.000      83.60       41.80       83.60       41.80          V-C  3.5350E+04   338.6       0.000
1.000      1.000      41.80      0.000       0.000       0.000       0.000     Aate_364268_2050_L_0              0.0000
0.0000     0.0000     0.0000     0.0000      0.0000
   4 D  8.740      0.000      87.40       43.70       87.40       43.70          V-C  3.5350E+04   338.4       0.000
1.000      1.000      43.70      0.000       0.000       0.000       0.000     Aate_364268_2050_L_0              0.0000
0.0000     0.0000     0.0000     0.0000      0.0000
   5 D  9.120      0.000      91.20       45.60       91.20       45.60          V-C  3.5350E+04   338.2       0.000
1.000      1.000      45.60      0.000       0.000       0.000       0.000     Aate_364268_2050_L_0              0.0000
0.0000     0.0000     0.0000     0.0000      0.0000
   6 D  9.500      0.000      95.00       47.50       95.00       47.50          V-C  3.5350E+04   338.0       0.000
1.000      1.000      47.50      0.000       0.000       0.000       0.000     Aate_364268_2050_L_0              0.0000
0.0000     0.0000     0.0000     0.0000      0.0000
   7 D  9.880      0.000      98.80       49.40       98.80       49.40          V-C  3.5350E+04   337.8       0.000
1.000      1.000      49.40      0.000       0.000       0.000       0.000     Aate_364268_2050_L_0              0.0000
0.0000     0.0000     0.0000     0.0000      0.0000
   8 D  10.26      0.000      102.6       51.30       102.6       51.30          V-C  3.5350E+04   337.6       0.000
1.000      1.000      51.30      0.000       0.000       0.000       0.000     Aate_364268_2050_L_0              0.0000
0.0000     0.0000     0.0000     0.0000      0.0000
   9 D  10.73   3.1528E-06    105.7       52.96       105.7       52.96          V-C  3.5350E+04   337.4       0.7042
1.000      1.000      53.66      0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000     0.0000     0.0000     0.0000      0.0000
  10 D  11.31   3.0640E-06    107.5       53.85       107.5       53.85          V-C  3.5350E+04   337.2       2.713
1.000      1.000      56.57      0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000     0.0000     0.0000     0.0000      0.0000
  11 D  11.89   2.9752E-06    109.3       54.74       109.3       54.74          V-C  3.5350E+04   337.0       4.723
1.000      1.000      59.47      0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000     0.0000     0.0000     0.0000      0.0000
  12 D  12.47   2.8864E-06    111.1       55.64       111.1       55.64          V-C  3.5350E+04   336.8       6.732
1.000      1.000      62.37      0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000     0.0000     0.0000     0.0000      0.0000
  13 D  13.05   2.7976E-06    112.9       56.53       112.9       56.53          V-C  3.5350E+04   336.6       8.741
1.000      1.000      65.27      0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000     0.0000     0.0000     0.0000      0.0000
  14 D  13.63   2.7087E-06    114.7       57.42       114.7       57.42          V-C  3.5350E+04   336.4       10.75
1.000      1.000      68.17      0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000     0.0000     0.0000     0.0000      0.0000
  15 D  14.21   2.6199E-06    116.4       58.31       116.4       58.31          V-C  3.5350E+04   336.2       12.76
1.000      1.000      71.07      0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000     0.0000     0.0000     0.0000      0.0000
  16 D  14.80   2.5311E-06    118.2       59.21       118.2       59.21          V-C  3.5350E+04   336.0       14.77
1.000      1.000      73.98      0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000     0.0000     0.0000     0.0000      0.0000
  17 D  15.38   2.4423E-06    120.0       60.10       120.0       60.10          V-C  3.5350E+04   335.8       16.78
1.000      1.000      76.88      0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000     0.0000     0.0000     0.0000      0.0000
  18 D  15.96   2.3535E-06    121.8       60.99       121.8       60.99          V-C  3.5350E+04   335.6       18.79
1.000      1.000      79.78      0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000     0.0000     0.0000     0.0000      0.0000
  19 D  16.54   2.2647E-06    123.6       61.88       123.6       61.88          V-C  3.5350E+04   335.4       20.80
1.000      1.000      82.68      0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000     0.0000     0.0000     0.0000      0.0000
  20 D  17.12   2.1758E-06    125.4       62.78       125.4       62.78          V-C  3.5350E+04   335.2       22.81
1.000      1.000      85.58      0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000     0.0000     0.0000     0.0000      0.0000
  21 D  19.27   3.5284E-07    127.2       71.54       127.2       71.54          V-C  1.6003E+05   335.0       24.82
1.000      1.000      96.35      0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000     0.0000     0.0000     0.0000      0.0000
  22 D  19.90   3.3781E-07    129.2       72.65       129.2       72.65          V-C  1.6003E+05   334.8       26.83
```

```
1.000       1.000       99.48       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  23 D   20.52      3.2280E-07   131.2       73.77       131.2       73.77           V-C  1.6003E+05   334.6       28.83
1.000       1.000       102.6       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  24 D   21.15      3.0778E-07   133.2       74.89       133.2       74.89           V-C  1.6003E+05   334.4       30.84
1.000       1.000       105.7       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  25 D   21.77      2.9277E-07   135.2       76.00       135.2       76.00           V-C  1.6003E+05   334.2       32.85
1.000       1.000       108.9       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  26 D   22.40      2.7775E-07   137.1       77.12       137.1       77.12           V-C  1.6003E+05   334.0       34.86
1.000       1.000       112.0       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  27 D   23.02      2.6274E-07   139.1       78.24       139.1       78.24           V-C  1.6003E+05   333.8       36.87
1.000       1.000       115.1       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  28 D   23.65      2.4772E-07   141.1       79.35       141.1       79.35           V-C  1.6003E+05   333.6       38.88
1.000       1.000       118.2       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  29 D   24.27      2.3271E-07   143.1       80.47       143.1       80.47           V-C  1.6003E+05   333.4       40.89
1.000       1.000       121.4       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  30 D   24.90      2.1769E-07   145.1       81.59       145.1       81.59           V-C  1.6003E+05   333.2       42.90
1.000       1.000       124.5       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  31 D   25.52      2.0267E-07   147.1       82.70       147.1       82.70           V-C  1.6003E+05   333.0       44.91
1.000       1.000       127.6       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  32 D   26.15      1.8766E-07   149.1       83.82       149.1       83.82           V-C  1.6003E+05   332.8       46.92
1.000       1.000       130.7       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  33 D   26.77      1.7264E-07   151.1       84.93       151.1       84.93           V-C  1.6003E+05   332.6       48.93
1.000       1.000       133.9       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  34 D   27.40      1.5763E-07   153.1       86.05       153.1       86.05           V-C  1.6003E+05   332.4       50.94
1.000       1.000       137.0       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  35 D   28.02      1.4261E-07   155.1       87.17       155.1       87.17           V-C  1.6003E+05   332.2       52.95
1.000       1.000       140.1       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  36 D   28.65      1.2760E-07   157.1       88.28       157.1       88.28           V-C  1.6003E+05   332.0       54.95
1.000       1.000       143.2       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  37 D   29.27      1.1258E-07   159.0       89.40       159.0       89.40           V-C  1.6003E+05   331.8       56.96
1.000       1.000       146.4       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  38 D   29.90      9.7560E-08   161.0       90.52       161.0       90.52           V-C  1.6003E+05   331.6       58.97
1.000       1.000       149.5       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  39 D   30.52      8.2545E-08   163.0       91.63       163.0       91.63           V-C  1.6003E+05   331.4       60.98
1.000       1.000       152.6       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  40 D   31.15      6.7530E-08   165.0       92.75       165.0       92.75           V-C  1.6003E+05   331.2       62.99
1.000       1.000       155.7       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  41 D   29.70      1.2090E-07   167.0       83.51       167.0       83.51           V-C  8.1593E+04   331.0       65.00
1.000       1.000       148.5       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  42 D   30.35      1.1744E-07   169.5       84.76       169.5       84.76           V-C  8.1593E+04   330.8       67.00
1.000       1.000       151.8       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  43 D   31.00      1.1399E-07   172.0       86.01       172.0       86.01           V-C  8.1593E+04   330.6       69.00
1.000       1.000       155.0       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  44 D   31.65      1.1053E-07   174.5       87.26       174.5       87.26           V-C  8.1593E+04   330.4       71.00
1.000       1.000       158.3       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  45 D   32.30      1.0708E-07   177.0       88.51       177.0       88.51           V-C  8.1593E+04   330.2       73.01
1.000       1.000       161.5       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  46 D   32.95      1.0363E-07   179.5       89.76       179.5       89.76           V-C  8.1593E+04   330.0       75.01
1.000       1.000       164.8       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  47 D   33.60      1.0017E-07   182.0       91.01       182.0       91.01           V-C  8.1593E+04   329.8       77.01
1.000       1.000       168.0       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  48 D   34.25      9.6715E-08   184.5       92.26       184.5       92.26           V-C  8.1593E+04   329.6       79.01
1.000       1.000       171.3       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  49 D   34.90      9.3261E-08   187.0       93.51       187.0       93.51           V-C  8.1593E+04   329.4       81.01
1.000       1.000       174.5       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  50 D   35.55      8.9806E-08   189.5       94.76       189.5       94.76           V-C  8.1593E+04   329.2       83.01
1.000       1.000       177.8       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  51 D   36.20      8.6352E-08   192.0       96.01       192.0       96.01           V-C  8.1593E+04   329.0       85.01
1.000       1.000       181.0       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  52 D   36.85      8.2897E-08   194.5       97.26       194.5       97.26           V-C  8.1593E+04   328.8       87.01
1.000       1.000       184.3       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
```

53 D	37.50	7.9443E-08	197.0	98.51	197.0	98.51	V-C	8.1593E+04	328.6	89.01
1.000	1.000	187.5	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
54 D	38.15	7.5988E-08	199.5	99.76	199.5	99.76	V-C	8.1593E+04	328.4	91.01
1.000	1.000	190.8	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
55 D	38.80	7.2532E-08	202.0	101.0	202.0	101.0	V-C	8.1593E+04	328.2	93.02
1.000	1.000	194.0	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
56 D	39.45	6.9078E-08	204.5	102.3	204.5	102.3	V-C	8.1593E+04	328.0	95.02
1.000	1.000	197.3	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
57 D	40.10	6.5623E-08	207.0	103.5	207.0	103.5	V-C	8.1593E+04	327.8	97.02
1.000	1.000	200.5	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
58 D	40.75	6.2169E-08	209.5	104.8	209.5	104.8	V-C	8.1593E+04	327.6	99.02
1.000	1.000	203.8	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
59 D	41.40	5.8714E-08	212.0	106.0	212.0	106.0	V-C	8.1593E+04	327.4	101.0
1.000	1.000	207.0	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
60 D	42.05	5.5260E-08	214.5	107.3	214.5	107.3	V-C	8.1593E+04	327.2	103.0
1.000	1.000	210.3	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
61 D	42.70	5.1805E-08	217.0	108.5	217.0	108.5	V-C	8.1593E+04	327.0	105.0
1.000	1.000	213.5	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
62 D	43.35	4.8351E-08	219.5	109.8	219.5	109.8	V-C	8.1593E+04	326.8	107.0
1.000	1.000	216.8	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
63 D	44.01	4.4895E-08	222.0	111.0	222.0	111.0	V-C	8.1593E+04	326.6	109.0
1.000	1.000	220.0	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
64 D	44.66	4.1440E-08	224.5	112.2	224.5	112.2	V-C	8.1593E+04	326.4	111.0
1.000	1.000	223.3	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
65 D	45.31	3.7986E-08	227.0	113.5	227.0	113.5	V-C	8.1593E+04	326.2	113.0
1.000	1.000	226.5	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
66 D	45.96	3.4531E-08	229.5	114.7	229.5	114.7	V-C	8.1593E+04	326.0	115.0
1.000	1.000	229.8	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
67 D	46.61	3.1077E-08	232.0	116.0	232.0	116.0	V-C	8.1593E+04	325.8	117.0
1.000	1.000	233.0	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
68 D	47.26	2.7622E-08	234.5	117.2	234.5	117.2	V-C	8.1593E+04	325.6	119.0
1.000	1.000	236.3	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
69 D	47.91	2.4168E-08	237.0	118.5	237.0	118.5	V-C	8.1593E+04	325.4	121.0
1.000	1.000	239.5	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
70 D	48.56	2.0713E-08	239.5	119.7	239.5	119.7	V-C	8.1593E+04	325.2	123.0
1.000	1.000	242.8	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
71 D	49.21	1.7257E-08	242.0	121.0	242.0	121.0	V-C	8.1593E+04	325.0	125.0
1.000	1.000	246.0	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
72 D	49.86	1.3802E-08	244.5	122.2	244.5	122.2	V-C	8.1593E+04	324.8	127.0
1.000	1.000	249.3	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
73 D	50.51	1.0348E-08	247.0	123.5	247.0	123.5	V-C	8.1593E+04	324.6	129.0
1.000	1.000	252.5	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
74 D	51.16	6.8934E-09	249.5	124.7	249.5	124.7	V-C	8.1593E+04	324.4	131.0
1.000	1.000	255.8	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
75 D	51.81	3.4389E-09	252.0	126.0	252.0	126.0	V-C	8.1593E+04	324.2	133.0
1.000	1.000	259.0	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
76 D	26.23	9.9465E-19	254.5	127.2	254.5	127.2	V-C	8.1593E+04	324.0	135.0
1.000	1.000	262.3	0.000	0.000	0.000	0.000	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						

```
+-----------------------------------------------------------------------------------------------------------------------+
|                  PARATIEPLUS(TM)   NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*             |
|                                                                                                                       |
|                                              ParatiePlus                                                              |
|                                  Exe Time :28 January 2022   16:22:47                                                 |
+-----------------------------------------------------------------------------------------------------------------------+
New Project


S T R E S S   R E S U L T S   F O R   G R O U P   N O.   2

0_R                                                    :
ELEMENT TYPE    5 NO.OF ELEMENTS. IN THIS GROUP   76
C U R R E N T   T I M E   I S      1.0000 SUBINCREMENT 00001/00001

 HARDENING 2D SOIL ELEMENT

 ****** TOTAL STRESS FORMULATION *****

  EL *   FORCE     DISPL-Y  VERTICAL-P  HORIZON.-P     MAX-V-P     MAX-H-P          STATE   STIFFNESS Z-LEVEL      PORE       E FAC-
TOR    UFACTOR       Peq          Su_a        Su_p        Cohe_a      Cohe_p     LAYER                              ZFO         QS
QSL         ZD          ZPL          Kz
 ------------------------------------------------------------------------------------------------------------------------------
-----------------------------------------------------------------------------------------------------------------------------
-----------------------------------------------
   1 D   3.800       0.000       76.00       38.00       76.00       38.00           V-C  2.2631E+04   339.0       0.000
1.000       1.000       38.00       0.000       0.000       0.000       0.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   2 D   7.980       0.000       79.80       39.90       79.80       39.90           V-C  2.2631E+04   338.8       0.000
1.000       1.000       39.90       0.000       0.000       0.000       0.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   3 D   8.360       0.000       83.60       41.80       83.60       41.80           V-C  2.2631E+04   338.6       0.000
1.000       1.000       41.80       0.000       0.000       0.000       0.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   4 D   8.740       0.000       87.40       43.70       87.40       43.70           V-C  2.2631E+04   338.4       0.000
1.000       1.000       43.70       0.000       0.000       0.000       0.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   5 D   9.120       0.000       91.20       45.60       91.20       45.60           V-C  2.2631E+04   338.2       0.000
1.000       1.000       45.60       0.000       0.000       0.000       0.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   6 D   9.500       0.000       95.00       47.50       95.00       47.50           V-C  2.2631E+04   338.0       0.000
1.000       1.000       47.50       0.000       0.000       0.000       0.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   7 D   9.880       0.000       98.80       49.40       98.80       49.40           V-C  2.2631E+04   337.8       0.000
1.000       1.000       49.40       0.000       0.000       0.000       0.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   8 D   10.26       0.000       102.6       51.30       102.6       51.30           V-C  2.2631E+04   337.6       0.000
1.000       1.000       51.30       0.000       0.000       0.000       0.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   9 D   10.73     -3.1528E-06   105.0       52.31       105.0       52.52          UL-RL  6.7893E+04   337.4       1.355
1.000       1.000       53.66       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  10 D   11.31     -3.0640E-06   106.9       53.22       106.9       53.43          UL-RL  6.7893E+04   337.2       3.346
1.000       1.000       56.57       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  11 D   11.89     -2.9752E-06   108.7       54.13       108.7       54.33          UL-RL  6.7893E+04   337.0       5.337
1.000       1.000       59.47       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  12 D   12.47     -2.8864E-06   110.5       55.04       110.5       55.24          UL-RL  6.7893E+04   336.8       7.328
1.000       1.000       62.37       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  13 D   13.05     -2.7976E-06   112.3       55.95       112.3       56.14          UL-RL  6.7893E+04   336.6       9.319
1.000       1.000       65.27       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  14 D   13.63     -2.7087E-06   114.1       56.86       114.1       57.05          UL-RL  6.7893E+04   336.4       11.31
1.000       1.000       68.17       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  15 D   14.21     -2.6199E-06   115.9       57.77       115.9       57.95          UL-RL  6.7893E+04   336.2       13.30
1.000       1.000       71.07       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  16 D   14.80     -2.5311E-06   117.7       58.68       117.7       58.86          UL-RL  6.7893E+04   336.0       15.29
1.000       1.000       73.98       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  17 D   15.38     -2.4423E-06   119.5       59.59       119.5       59.76          UL-RL  6.7893E+04   335.8       17.28
1.000       1.000       76.88       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  18 D   15.96     -2.3535E-06   121.3       60.51       121.3       60.67          UL-RL  6.7893E+04   335.6       19.27
1.000       1.000       79.78       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  19 D   16.54     -2.2647E-06   123.1       61.42       123.1       61.57          UL-RL  6.7893E+04   335.4       21.26
1.000       1.000       82.68       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  20 D   17.12     -2.1758E-06   124.9       62.33       124.9       62.47          UL-RL  6.7893E+04   335.2       23.26
1.000       1.000       85.58       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  21 D   19.27     -3.5284E-07   126.8       71.11       126.8       71.24          UL-RL  3.7492E+05   335.0       25.25
1.000       1.000       96.35       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  22 D   19.90     -3.3781E-07   128.8       72.24       128.8       72.37          UL-RL  3.7492E+05   334.8       27.24
```

```
1.000       1.000       99.48       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  23 D   20.52     -3.2280E-07   130.8       73.38       130.8       73.50          UL-RL  3.7492E+05   334.6       29.23
1.000       1.000       102.6       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  24 D   21.15     -3.0778E-07   132.8       74.51       132.8       74.63          UL-RL  3.7492E+05   334.4       31.22
1.000       1.000       105.7       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  25 D   21.77     -2.9277E-07   134.8       75.65       134.8       75.76          UL-RL  3.7492E+05   334.2       33.21
1.000       1.000       108.9       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  26 D   22.40     -2.7775E-07   136.8       76.78       136.8       76.88          UL-RL  3.7492E+05   334.0       35.20
1.000       1.000       112.0       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  27 D   23.02     -2.6274E-07   138.8       77.91       138.8       78.01          UL-RL  3.7492E+05   333.8       37.19
1.000       1.000       115.1       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  28 D   23.65     -2.4772E-07   140.8       79.05       140.8       79.14          UL-RL  3.7492E+05   333.6       39.18
1.000       1.000       118.2       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  29 D   24.27     -2.3271E-07   142.8       80.18       142.8       80.27          UL-RL  3.7492E+05   333.4       41.17
1.000       1.000       121.4       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  30 D   24.90     -2.1769E-07   144.8       81.32       144.8       81.40          UL-RL  3.7492E+05   333.2       43.17
1.000       1.000       124.5       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  31 D   25.52     -2.0267E-07   146.9       82.45       146.9       82.53          UL-RL  3.7492E+05   333.0       45.16
1.000       1.000       127.6       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  32 D   26.15     -1.8766E-07   148.9       83.59       148.9       83.66          UL-RL  3.7492E+05   332.8       47.15
1.000       1.000       130.7       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  33 D   26.77     -1.7264E-07   150.9       84.72       150.9       84.79          UL-RL  3.7492E+05   332.6       49.14
1.000       1.000       133.9       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  34 D   27.40     -1.5763E-07   152.9       85.86       152.9       85.92          UL-RL  3.7492E+05   332.4       51.13
1.000       1.000       137.0       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  35 D   28.02     -1.4261E-07   154.9       86.99       154.9       87.05          UL-RL  3.7492E+05   332.2       53.12
1.000       1.000       140.1       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  36 D   28.65     -1.2760E-07   156.9       88.13       156.9       88.18          UL-RL  3.7492E+05   332.0       55.11
1.000       1.000       143.2       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  37 D   29.27     -1.1258E-07   158.9       89.26       158.9       89.31          UL-RL  3.7492E+05   331.8       57.10
1.000       1.000       146.4       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  38 D   29.90     -9.7560E-08   160.9       90.40       160.9       90.44          UL-RL  3.7492E+05   331.6       59.09
1.000       1.000       149.5       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  39 D   30.52     -8.2545E-08   162.9       91.53       162.9       91.56          UL-RL  3.7492E+05   331.4       61.08
1.000       1.000       152.6       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  40 D   31.15     -6.7530E-08   164.9       92.67       164.9       92.69          UL-RL  3.7492E+05   331.2       63.07
1.000       1.000       155.7       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  41 D   29.70     -1.2090E-07   166.9       83.45       166.9       83.47          UL-RL  1.8384E+05   331.0       65.07
1.000       1.000       148.5       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  42 D   30.35     -1.1744E-07   169.4       84.70       169.4       84.72          UL-RL  1.8384E+05   330.8       67.06
1.000       1.000       151.8       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  43 D   31.00     -1.1399E-07   171.9       85.95       171.9       85.97          UL-RL  1.8384E+05   330.6       69.06
1.000       1.000       155.0       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  44 D   31.65     -1.1053E-07   174.4       87.20       174.4       87.22          UL-RL  1.8384E+05   330.4       71.06
1.000       1.000       158.3       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  45 D   32.30     -1.0708E-07   176.9       88.45       176.9       88.47          UL-RL  1.8384E+05   330.2       73.06
1.000       1.000       161.5       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  46 D   32.95     -1.0363E-07   179.5       89.71       179.5       89.73          UL-RL  1.8384E+05   330.0       75.06
1.000       1.000       164.8       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  47 D   33.60     -1.0017E-07   182.0       90.96       182.0       90.98          UL-RL  1.8384E+05   329.8       77.06
1.000       1.000       168.0       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  48 D   34.25     -9.6715E-08   184.5       92.21       184.5       92.23          UL-RL  1.8384E+05   329.6       79.06
1.000       1.000       171.3       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  49 D   34.90     -9.3261E-08   187.0       93.46       187.0       93.48          UL-RL  1.8384E+05   329.4       81.06
1.000       1.000       174.5       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  50 D   35.55     -8.9806E-08   189.5       94.71       189.5       94.73          UL-RL  1.8384E+05   329.2       83.06
1.000       1.000       177.8       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  51 D   36.20     -8.6352E-08   192.0       95.96       192.0       95.98          UL-RL  1.8384E+05   329.0       85.06
1.000       1.000       181.0       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  52 D   36.85     -8.2897E-08   194.5       97.21       194.5       97.23          UL-RL  1.8384E+05   328.8       87.06
1.000       1.000       184.3       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
```

53 D	37.50	-7.9443E-08	197.0	98.46	197.0	98.48	UL-RL	1.8384E+05	328.6	89.06
1.000	1.000	187.5	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
54 D	38.15	-7.5988E-08	199.5	99.72	199.5	99.73	UL-RL	1.8384E+05	328.4	91.05
1.000	1.000	190.8	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
55 D	38.80	-7.2532E-08	202.0	101.0	202.0	101.0	UL-RL	1.8384E+05	328.2	93.05
1.000	1.000	194.0	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
56 D	39.45	-6.9078E-08	204.5	102.2	204.5	102.2	UL-RL	1.8384E+05	328.0	95.05
1.000	1.000	197.3	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
57 D	40.10	-6.5623E-08	207.0	103.5	207.0	103.5	UL-RL	1.8384E+05	327.8	97.05
1.000	1.000	200.5	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
58 D	40.75	-6.2169E-08	209.5	104.7	209.5	104.7	UL-RL	1.8384E+05	327.6	99.05
1.000	1.000	203.8	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
59 D	41.40	-5.8714E-08	212.0	106.0	212.0	106.0	UL-RL	1.8384E+05	327.4	101.1
1.000	1.000	207.0	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
60 D	42.05	-5.5260E-08	214.5	107.2	214.5	107.2	UL-RL	1.8384E+05	327.2	103.1
1.000	1.000	210.3	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
61 D	42.70	-5.1805E-08	217.0	108.5	217.0	108.5	UL-RL	1.8384E+05	327.0	105.0
1.000	1.000	213.5	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
62 D	43.35	-4.8351E-08	219.5	109.7	219.5	109.7	UL-RL	1.8384E+05	326.8	107.0
1.000	1.000	216.8	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
63 D	44.01	-4.4895E-08	222.0	111.0	222.0	111.0	UL-RL	1.8384E+05	326.6	109.0
1.000	1.000	220.0	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
64 D	44.66	-4.1440E-08	224.5	112.2	224.5	112.2	UL-RL	1.8384E+05	326.4	111.0
1.000	1.000	223.3	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
65 D	45.31	-3.7986E-08	227.0	113.5	227.0	113.5	UL-RL	1.8384E+05	326.2	113.0
1.000	1.000	226.5	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
66 D	45.96	-3.4531E-08	229.5	114.7	229.5	114.7	UL-RL	1.8384E+05	326.0	115.0
1.000	1.000	229.8	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
67 D	46.61	-3.1077E-08	232.0	116.0	232.0	116.0	UL-RL	1.8384E+05	325.8	117.0
1.000	1.000	233.0	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
68 D	47.26	-2.7622E-08	234.5	117.2	234.5	117.2	UL-RL	1.8384E+05	325.6	119.0
1.000	1.000	236.3	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
69 D	47.91	-2.4168E-08	237.0	118.5	237.0	118.5	UL-RL	1.8384E+05	325.4	121.0
1.000	1.000	239.5	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
70 D	48.56	-2.0713E-08	239.5	119.7	239.5	119.7	UL-RL	1.8384E+05	325.2	123.0
1.000	1.000	242.8	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
71 D	49.21	-1.7257E-08	242.0	121.0	242.0	121.0	UL-RL	1.8384E+05	325.0	125.0
1.000	1.000	246.0	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
72 D	49.86	-1.3802E-08	244.5	122.2	244.5	122.2	UL-RL	1.8384E+05	324.8	127.0
1.000	1.000	249.3	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
73 D	50.51	-1.0348E-08	247.0	123.5	247.0	123.5	UL-RL	1.8384E+05	324.6	129.0
1.000	1.000	252.5	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
74 D	51.16	-6.8934E-09	249.5	124.7	249.5	124.7	UL-RL	1.8384E+05	324.4	131.0
1.000	1.000	255.8	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
75 D	51.81	-3.4389E-09	252.0	126.0	252.0	126.0	UL-RL	1.8384E+05	324.2	133.0
1.000	1.000	259.0	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
76 D	26.23	-9.9465E-19	254.5	127.2	254.5	127.2	V-C	6.1280E+04	324.0	135.0
1.000	1.000	262.3	0.000	0.000	0.000	0.000	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						

```
+-----------------------------------------------------------------------------------------------------------------------+
|                   PARATIEPLUS(TM)   NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*             |
|                                                                                                                       |
|                                              ParatiePlus                                                              |
|                                 Exe Time :28 January 2022   16:22:47                                                  |
+-----------------------------------------------------------------------------------------------------------------------+
New Project


S T R E S S   R E S U L T S   F O R   G R O U P   N O.   3

Pali1500_253215                                          :
ELEMENT TYPE    2 NO.OF ELEMENTS. IN THIS GROUP   75
C U R R E N T   T I M E   I S      1.0000 SUBINCREMENT 00001/00001

 WALL2D ELEMENT

   EL      TA          TB          MA          MB
-------------------------------------------------

***** NO ONE ELEMENT ACTIVE AT CURRENT STEP *****

ITER     0 RNORM = 0.000     RMNORM= 0.000
           RINORM=0.1166E+06 RIMNOR= 0.000
           RENORM=0.1892E-01 REMNOR= 0.000     RATIO =0.4029E-03 TOLER =0.1000E-03  NOT CONVERGED
           RFMAX = 47.65     RMMAX = 0.000
           RTSMAL=0.1000E-03 RMSMAL= 0.000
           RDT   =0.1166E+06 RDR   = 0.000
           RATIOT=0.4029E-03 RATIOR= 0.000
           MAX UN=0.4135E-01 IEQ=    17 NODE      9 DOF   1  Y-DISPL.F
           MIN UN= 0.000     IEQ=     1 NODE      1 DOF   1  Y-DISPL.F
           NO. OF CONTACT CONSTRAINT VIOLATIONS     0


ITER     2 RNORM = 0.000     RMNORM= 0.000
           RINORM=0.1166E+06 RIMNOR= 0.000
           RENORM=0.3436E-22 REMNOR=0.1559E-24 RATIO =0.1717E-13 TOLER =0.1000E-03      CONVERGED !
           RFMAX = 47.65     RMMAX = 0.000
           RTSMAL=0.1000E-03 RMSMAL= 0.000
           RDT   =0.1166E+06 RDR   = 0.000
           RATIOT=0.1717E-13 RATIOR= 0.000
           MAX UN=0.2430E-11 IEQ=    31 NODE     16 DOF   1  Y-DISPL.F
           MIN UN=-.2402E-11 IEQ=    29 NODE     15 DOF   1  Y-DISPL.F
           NO. OF CONTACT CONSTRAINT VIOLATIONS     0
```

```
+-------------------------------------------------------------------------------------------------------------------------+
|                   PARATIEPLUS(TM)   NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*              |
|                                                                                                                         |
|                                                ParatiePlus                                                              |
|                                  Exe Time :28 January 2022   16:22:47                                                   |
+-------------------------------------------------------------------------------------------------------------------------+
New Project
SOLUTION REACHED USING     2 ITERATIONS ON   80

P R I N T   O U T   F O R   T I M E   S T E P   2     ( AT TIME   2.000     ) SUBINCREMENT 00001/00001

PRINT OUT OF ACTIVE COMPONENTS (FIXED NODES ARE NOT PRINTED OUT)

          Y-DISPL.F        X-ROT. F
            02               04
    1   4.5879150E-07  -1.6006488E-08
    2   4.5558910E-07  -1.6023025E-08
    3   4.5237448E-07  -1.6156784E-08
    4   4.4910739E-07  -1.6575461E-08
    5   4.4571420E-07  -1.7445559E-08
    6   4.4208616E-07  -1.8933268E-08
    7   4.3808710E-07  -2.1201075E-08
    8   4.3354285E-07  -2.4412114E-08
    9  -2.7245883E-06  -2.8727373E-08
   10  -2.6420411E-06  -3.4086484E-08
   11  -2.5606471E-06  -4.0215649E-08
   12  -2.4805342E-06  -4.6854664E-08
   13  -2.4017793E-06  -5.3755789E-08
   14  -2.3243728E-06  -6.0686131E-08
   15  -2.2483743E-06  -6.7412841E-08
   16  -2.1736830E-06  -7.3722978E-08
   17  -2.1001947E-06  -7.9408758E-08
   18  -2.0277645E-06  -8.4270273E-08
   19  -1.9562079E-06  -8.8114815E-08
   20  -1.8853031E-06  -9.0756289E-08
   21  -8.0598573E-08  -9.2014738E-08
   22  -8.3999248E-08  -9.1918535E-08
   23  -8.7262325E-08  -9.0691451E-08
   24  -9.0183950E-08  -8.8535917E-08
   25  -9.2596877E-08  -8.5632886E-08
   26  -9.4367982E-08  -8.2142737E-08
   27  -9.5394232E-08  -7.8206209E-08
   28  -9.5598876E-08  -7.3945560E-08
   29  -9.4927875E-08  -6.9465909E-08
   30  -9.3345599E-08  -6.4854374E-08
   31  -9.0835467E-08  -6.0190889E-08
   32  -8.7392546E-08  -5.5535990E-08
   33  -8.3023917E-08  -5.0941634E-08
   34  -7.7746104E-08  -4.6450565E-08
   35  -7.1583392E-08  -4.2097938E-08
   36  -6.4566472E-08  -3.7912920E-08
   37  -5.6731400E-08  -3.3920237E-08
   38  -4.8114366E-08  -3.0139841E-08
   39  -3.8768866E-08  -2.6595780E-08
   40  -2.8739664E-08  -2.3306217E-08
   41  -8.6463253E-08  -2.0292368E-08
   42  -8.6789478E-08  -1.7561181E-08
   43  -8.6596972E-08  -1.5103319E-08
   44  -8.5939292E-08  -1.2907383E-08
   45  -8.4867544E-08  -1.0960353E-08
   46  -8.3430102E-08  -9.2479891E-09
   47  -8.1671449E-08  -7.7544873E-09
   48  -7.9635712E-08  -6.4656729E-09
   49  -7.7361272E-08  -5.3647914E-09
   50  -7.4884115E-08  -4.4358342E-09
   51  -7.2237035E-08  -3.6629394E-09
   52  -6.9449683E-08  -3.0305603E-09
   53  -6.6548645E-08  -2.5236061E-09
   54  -6.3557544E-08  -2.1275572E-09
   55  -6.0495618E-08  -1.8284302E-09
   56  -5.7384021E-08  -1.6134036E-09
   57  -5.4236778E-08  -1.4699752E-09
   58  -5.1067043E-08  -1.3866448E-09
   59  -4.7885757E-08  -1.3527685E-09
   60  -4.4701820E-08  -1.3585744E-09
   61  -4.1522264E-08  -1.3951688E-09
   62  -3.8352431E-08  -1.4545360E-09
   63  -3.5194571E-08  -1.5295729E-09
   64  -3.2054326E-08  -1.6139221E-09
   65  -2.8931426E-08  -1.7021844E-09
   66  -2.5826179E-08  -1.7897596E-09
   67  -2.2738056E-08  -1.8728653E-09
   68  -1.9665853E-08  -1.9485219E-09
   69  -1.6607847E-08  -2.0145373E-09
   70  -1.3561955E-08  -2.0694943E-09
   71  -1.0524373E-08  -2.1127577E-09
   72  -7.4957887E-09  -2.1443837E-09
   73  -4.4724331E-09  -2.1652431E-09
   74  -1.4522988E-09  -2.1769231E-09
```

```
75   1.5662299E-09  -2.1817481E-09
76   4.5706495E-09  -2.1827789E-09
```

```
+-----------------------------------------------------------------------------------------------------------------------------+
|                  PARATIEPLUS(TM)   NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*                    |
|                                                                                                                             |
|                                              ParatiePlus                                                                    |
|                                  Exe Time :28 January 2022   16:22:47                                                       |
+-----------------------------------------------------------------------------------------------------------------------------+
New Project


S T R E S S   R E S U L T S   F O R   G R O U P   N O.   1

0_L                                                    :
ELEMENT TYPE    5 NO.OF ELEMENTS. IN THIS GROUP   76
C U R R E N T   T I M E   I S      2.0000 SUBINCREMENT 00001/00001

 HARDENING 2D SOIL ELEMENT

 ****** TOTAL STRESS FORMULATION *****

  EL *   FORCE      DISPL-Y  VERTICAL-P  HORIZON.-P     MAX-V-P     MAX-H-P          STATE   STIFFNESS Z-LEVEL      PORE       E FAC-
TOR    UFACTOR       Peq          Su_a        Su_p        Cohe_a      Cohe_p     LAYER                                ZFO         QS
QSL          ZD          ZPL          Kz
 ------------------------------------------------------------------------------------------------------------------------------------
------------------------------------------------------------------------------------------------------------------------------------
-----------------------------------------------
   1 D   0.000     -4.5879E-07   0.000       0.000       76.00       38.00          ACTIVE   0.000       339.0       0.000
1.000       1.000       0.000       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   2 D   1.732     -4.5559E-07   3.800       8.659       79.80       39.90          UL-RL  1.0605E+05   338.8       0.000
1.000       1.000       8.659       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   3 D   2.511     -4.5237E-07   7.600       12.56       83.60       41.80          UL-RL  1.0605E+05   338.6       0.000
1.000       1.000       12.56       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   4 D   3.147     -4.4911E-07   11.40       15.73       87.40       43.70          UL-RL  1.0605E+05   338.4       0.000
1.000       1.000       15.73       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   5 D   3.714     -4.4571E-07   15.20       18.57       91.20       45.60          UL-RL  1.0605E+05   338.2       0.000
1.000       1.000       18.57       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   6 D   4.239     -4.4209E-07   19.00       21.20       95.00       47.50          UL-RL  1.0605E+05   338.0       0.000
1.000       1.000       21.20       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   7 D   4.737     -4.3809E-07   22.80       23.69       98.80       49.40          UL-RL  1.0605E+05   337.8       0.000
1.000       1.000       23.69       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   8 D   5.215     -4.3354E-07   26.60       26.08       102.6       51.30          UL-RL  1.0605E+05   337.6       0.000
1.000       1.000       26.08       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   9 D   5.757      2.7246E-06   29.70       28.08       105.7       52.96          UL-RL  1.0605E+05   337.4       0.7029
1.000       1.000       28.78       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  10 D   6.373      2.6420E-06   31.49       29.15       107.5       53.85          UL-RL  1.0605E+05   337.2       2.708
1.000       1.000       31.86       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  11 D   6.986      2.5606E-06   33.29       30.22       109.3       54.74          UL-RL  1.0605E+05   337.0       4.714
1.000       1.000       34.93       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  12 D   7.598      2.4805E-06   35.08       31.27       111.1       55.64          UL-RL  1.0605E+05   336.8       6.719
1.000       1.000       37.99       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  13 D   8.208      2.4018E-06   36.88       32.31       112.9       56.53          UL-RL  1.0605E+05   336.6       8.725
1.000       1.000       41.04       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  14 D   8.816      2.3244E-06   38.67       33.35       114.7       57.42          UL-RL  1.0605E+05   336.4       10.73
1.000       1.000       44.08       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  15 D   9.422      2.2484E-06   40.47       34.38       116.4       58.31          UL-RL  1.0605E+05   336.2       12.74
1.000       1.000       47.11       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  16 D   10.03      2.1737E-06   42.26       35.40       118.2       59.21          UL-RL  1.0605E+05   336.0       14.74
1.000       1.000       50.14       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  17 D   10.63      2.1002E-06   44.06       36.41       120.0       60.10          UL-RL  1.0605E+05   335.8       16.75
1.000       1.000       53.16       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  18 D   11.23      2.0278E-06   45.85       37.42       121.8       60.99          UL-RL  1.0605E+05   335.6       18.75
1.000       1.000       56.17       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  19 D   11.84      1.9562E-06   47.65       38.42       123.6       61.88          UL-RL  1.0605E+05   335.4       20.76
1.000       1.000       59.18       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  20 D   12.44      1.8853E-06   49.44       39.41       125.4       62.78          UL-RL  1.0605E+05   335.2       22.76
1.000       1.000       62.18       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  21 D   14.01      8.0599E-08   51.23       45.29       127.2       71.54          UL-RL  4.8010E+05   335.0       24.77
1.000       1.000       70.06       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  22 D   14.66      8.3999E-08   53.23       46.54       129.2       72.65          UL-RL  4.8010E+05   334.8       26.78
```

1.000	1.000	73.31	0.000	0.000	10.00	10.00	Salt_1270_202756_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
23 D	15.31	8.7262E-08	55.22	47.77	131.2	73.77	UL-RL	4.8010E+05	334.6	28.78
1.000	1.000	76.55	0.000	0.000	10.00	10.00	Salt_1270_202756_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
24 D	15.96	9.0184E-08	57.22	49.00	133.2	74.89	UL-RL	4.8010E+05	334.4	30.79
1.000	1.000	79.79	0.000	0.000	10.00	10.00	Salt_1270_202756_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
25 D	16.60	9.2597E-08	59.21	50.23	135.2	76.00	UL-RL	4.8010E+05	334.2	32.79
1.000	1.000	83.02	0.000	0.000	10.00	10.00	Salt_1270_202756_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
26 D	17.25	9.4368E-08	61.21	51.45	137.1	77.12	UL-RL	4.8010E+05	334.0	34.80
1.000	1.000	86.25	0.000	0.000	10.00	10.00	Salt_1270_202756_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
27 D	17.89	9.5394E-08	63.20	52.66	139.1	78.24	UL-RL	4.8010E+05	333.8	36.80
1.000	1.000	89.47	0.000	0.000	10.00	10.00	Salt_1270_202756_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
28 D	18.54	9.5599E-08	65.20	53.87	141.1	79.35	UL-RL	4.8010E+05	333.6	38.81
1.000	1.000	92.68	0.000	0.000	10.00	10.00	Salt_1270_202756_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
29 D	19.18	9.4928E-08	67.19	55.08	143.1	80.47	UL-RL	4.8010E+05	333.4	40.81
1.000	1.000	95.90	0.000	0.000	10.00	10.00	Salt_1270_202756_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
30 D	19.82	9.3346E-08	69.19	56.29	145.1	81.59	UL-RL	4.8010E+05	333.2	42.82
1.000	1.000	99.11	0.000	0.000	10.00	10.00	Salt_1270_202756_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
31 D	20.46	9.0835E-08	71.18	57.49	147.1	82.70	UL-RL	4.8010E+05	333.0	44.83
1.000	1.000	102.3	0.000	0.000	10.00	10.00	Salt_1270_202756_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
32 D	21.10	8.7393E-08	73.18	58.68	149.1	83.82	UL-RL	4.8010E+05	332.8	46.83
1.000	1.000	105.5	0.000	0.000	10.00	10.00	Salt_1270_202756_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
33 D	21.74	8.3024E-08	75.17	59.88	151.1	84.93	UL-RL	4.8010E+05	332.6	48.84
1.000	1.000	108.7	0.000	0.000	10.00	10.00	Salt_1270_202756_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
34 D	22.38	7.7746E-08	77.17	61.07	153.1	86.05	UL-RL	4.8010E+05	332.4	50.84
1.000	1.000	111.9	0.000	0.000	10.00	10.00	Salt_1270_202756_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
35 D	23.02	7.1583E-08	79.16	62.25	155.1	87.17	UL-RL	4.8010E+05	332.2	52.85
1.000	1.000	115.1	0.000	0.000	10.00	10.00	Salt_1270_202756_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
36 D	23.66	6.4566E-08	81.15	63.44	157.1	88.28	UL-RL	4.8010E+05	332.0	54.85
1.000	1.000	118.3	0.000	0.000	10.00	10.00	Salt_1270_202756_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
37 D	24.30	5.6731E-08	83.15	64.62	159.0	89.40	UL-RL	4.8010E+05	331.8	56.86
1.000	1.000	121.5	0.000	0.000	10.00	10.00	Salt_1270_202756_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
38 D	24.93	4.8114E-08	85.14	65.80	161.0	90.52	UL-RL	4.8010E+05	331.6	58.87
1.000	1.000	124.7	0.000	0.000	10.00	10.00	Salt_1270_202756_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
39 D	25.57	3.8769E-08	87.14	66.98	163.0	91.63	UL-RL	4.8010E+05	331.4	60.87
1.000	1.000	127.8	0.000	0.000	10.00	10.00	Salt_1270_202756_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
40 D	26.21	2.8740E-08	89.13	68.15	165.0	92.75	UL-RL	4.8010E+05	331.2	62.88
1.000	1.000	131.0	0.000	0.000	10.00	10.00	Salt_1270_202756_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
41 D	25.31	8.6463E-08	91.13	61.69	167.0	83.51	UL-RL	2.4478E+05	331.0	64.88
1.000	1.000	126.6	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
42 D	25.97	8.6789E-08	93.63	62.99	169.5	84.76	UL-RL	2.4478E+05	330.8	66.88
1.000	1.000	129.9	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
43 D	26.64	8.6597E-08	96.13	64.30	172.0	86.01	UL-RL	2.4478E+05	330.6	68.88
1.000	1.000	133.2	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
44 D	27.30	8.5939E-08	98.63	65.60	174.5	87.26	UL-RL	2.4478E+05	330.4	70.88
1.000	1.000	136.5	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
45 D	27.96	8.4868E-08	101.1	66.90	177.0	88.51	UL-RL	2.4478E+05	330.2	72.88
1.000	1.000	139.8	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
46 D	28.62	8.3430E-08	103.6	68.20	179.5	89.76	UL-RL	2.4478E+05	330.0	74.88
1.000	1.000	143.1	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
47 D	29.28	8.1671E-08	106.1	69.49	182.0	91.01	UL-RL	2.4478E+05	329.8	76.89
1.000	1.000	146.4	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
48 D	29.94	7.9636E-08	108.6	70.79	184.5	92.26	UL-RL	2.4478E+05	329.6	78.89
1.000	1.000	149.7	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
49 D	30.59	7.7361E-08	111.1	72.08	187.0	93.51	UL-RL	2.4478E+05	329.4	80.89
1.000	1.000	153.0	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
50 D	31.25	7.4884E-08	113.6	73.37	189.5	94.76	UL-RL	2.4478E+05	329.2	82.89
1.000	1.000	156.3	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
51 D	31.91	7.2237E-08	116.1	74.66	192.0	96.01	UL-RL	2.4478E+05	329.0	84.89
1.000	1.000	159.6	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
52 D	32.57	6.9450E-08	118.6	75.95	194.5	97.26	UL-RL	2.4478E+05	328.8	86.89
1.000	1.000	162.8	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						

53 D	33.23	6.6549E-08	121.1	77.24	197.0	98.51	UL-RL	2.4478E+05	328.6	88.89
1.000	1.000	166.1	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
54 D	33.88	6.3558E-08	123.6	78.53	199.5	99.76	UL-RL	2.4478E+05	328.4	90.89
1.000	1.000	169.4	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
55 D	34.54	6.0496E-08	126.1	79.81	202.0	101.0	UL-RL	2.4478E+05	328.2	92.89
1.000	1.000	172.7	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
56 D	35.20	5.7384E-08	128.6	81.09	204.5	102.3	UL-RL	2.4478E+05	328.0	94.89
1.000	1.000	176.0	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
57 D	35.85	5.4237E-08	131.1	82.38	207.0	103.5	UL-RL	2.4478E+05	327.8	96.89
1.000	1.000	179.3	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
58 D	36.51	5.1067E-08	133.6	83.66	209.5	104.8	UL-RL	2.4478E+05	327.6	98.89
1.000	1.000	182.6	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
59 D	37.17	4.7886E-08	136.1	84.94	212.0	106.0	UL-RL	2.4478E+05	327.4	100.9
1.000	1.000	185.8	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
60 D	37.82	4.4702E-08	138.6	86.22	214.5	107.3	UL-RL	2.4478E+05	327.2	102.9
1.000	1.000	189.1	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
61 D	38.48	4.1522E-08	141.1	87.50	217.0	108.5	UL-RL	2.4478E+05	327.0	104.9
1.000	1.000	192.4	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
62 D	39.13	3.8352E-08	143.6	88.78	219.5	109.8	UL-RL	2.4478E+05	326.8	106.9
1.000	1.000	195.7	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
63 D	39.79	3.5195E-08	146.1	90.05	222.0	111.0	UL-RL	2.4478E+05	326.6	108.9
1.000	1.000	199.0	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
64 D	40.45	3.2054E-08	148.6	91.33	224.5	112.2	UL-RL	2.4478E+05	326.4	110.9
1.000	1.000	202.2	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
65 D	41.10	2.8931E-08	151.1	92.61	227.0	113.5	UL-RL	2.4478E+05	326.2	112.9
1.000	1.000	205.5	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
66 D	41.76	2.5826E-08	153.6	93.88	229.5	114.7	UL-RL	2.4478E+05	326.0	114.9
1.000	1.000	208.8	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
67 D	42.41	2.2738E-08	156.1	95.16	232.0	116.0	UL-RL	2.4478E+05	325.8	116.9
1.000	1.000	212.1	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
68 D	43.07	1.9666E-08	158.6	96.43	234.5	117.2	UL-RL	2.4478E+05	325.6	118.9
1.000	1.000	215.3	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
69 D	43.72	1.6608E-08	161.1	97.70	237.0	118.5	UL-RL	2.4478E+05	325.4	120.9
1.000	1.000	218.6	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
70 D	44.38	1.3562E-08	163.6	98.97	239.5	119.7	UL-RL	2.4478E+05	325.2	122.9
1.000	1.000	221.9	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
71 D	45.03	1.0524E-08	166.1	100.2	242.0	121.0	UL-RL	2.4478E+05	325.0	124.9
1.000	1.000	225.1	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
72 D	45.68	7.4958E-09	168.6	101.5	244.5	122.2	UL-RL	2.4478E+05	324.8	126.9
1.000	1.000	228.4	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
73 D	46.34	4.4724E-09	171.1	102.8	247.0	123.5	UL-RL	2.4478E+05	324.6	128.9
1.000	1.000	231.7	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
74 D	46.99	1.4523E-09	173.6	104.1	249.5	124.7	UL-RL	2.4478E+05	324.4	130.9
1.000	1.000	235.0	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
75 D	47.65	-1.5662E-09	176.1	105.3	252.0	126.0	UL-RL	2.4478E+05	324.2	132.9
1.000	1.000	238.2	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
76 D	24.15	-4.5706E-09	178.6	106.6	254.5	127.2	UL-RL	2.4478E+05	324.0	134.9
1.000	1.000	241.5	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						

```
 +-----------------------------------------------------------------------------------------------------------------------+
 |                   PARATIEPLUS(TM)   NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*             |
 |                                                                                                                       |
 |                                                    ParatiePlus                                                        |
 |                                      Exe Time :28 January 2022   16:22:47                                             |
 +-----------------------------------------------------------------------------------------------------------------------+
 New Project


 S T R E S S    R E S U L T S    F O R    G R O U P  N O.   2

 0_R                                                              :
 ELEMENT TYPE    5 NO.OF ELEMENTS. IN THIS GROUP   76
 C U R R E N T    T I M E    I S      2.0000 SUBINCREMENT 00001/00001

  HARDENING 2D SOIL ELEMENT

  ****** TOTAL STRESS FORMULATION *****

  EL *   FORCE     DISPL-Y  VERTICAL-P  HORIZON.-P     MAX-V-P     MAX-H-P          STATE   STIFFNESS Z-LEVEL      PORE       E FAC-
TOR    UFACTOR       Peq          Su_a        Su_p       Cohe_a      Cohe_p     LAYER                               ZFO         QS
QSL         ZD          ZPL          Kz
 ------------------------------------------------------------------------------------------------------------------------------------
------------------------------------------------------------------------------------------------------------------------------------
----------------------------------------------
   1 D  3.1149E-03  4.5879E-07   0.000     3.1149E-02   76.00       38.00         UL-RL  6.7893E+04   339.0      0.000
1.000       1.000     3.1149E-02   0.000       0.000      10.00       10.00     Aate_364268_2050_L_0                0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   2 D   1.748     4.5559E-07   3.800       8.738      79.80       39.90         UL-RL  6.7893E+04   338.8      0.000
1.000       1.000       8.738       0.000       0.000      10.00       10.00     Aate_364268_2050_L_0                0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   3 D   2.527     4.5237E-07   7.600      12.63       83.60       41.80         UL-RL  6.7893E+04   338.6      0.000
1.000       1.000      12.63        0.000       0.000      10.00       10.00     Aate_364268_2050_L_0                0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   4 D   3.163     4.4911E-07  11.40       15.81       87.40       43.70         UL-RL  6.7893E+04   338.4      0.000
1.000       1.000      15.81        0.000       0.000      10.00       10.00     Aate_364268_2050_L_0                0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   5 D   3.729     4.4571E-07  15.20       18.65       91.20       45.60         UL-RL  6.7893E+04   338.2      0.000
1.000       1.000      18.65        0.000       0.000      10.00       10.00     Aate_364268_2050_L_0                0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   6 D   4.255     4.4209E-07  19.00       21.27       95.00       47.50         UL-RL  6.7893E+04   338.0      0.000
1.000       1.000      21.27        0.000       0.000      10.00       10.00     Aate_364268_2050_L_0                0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   7 D   4.752     4.3809E-07  22.80       23.76       98.80       49.40         UL-RL  6.7893E+04   337.8      0.000
1.000       1.000      23.76        0.000       0.000      10.00       10.00     Aate_364268_2050_L_0                0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   8 D   5.230     4.3354E-07  26.60       26.15      102.6        51.30         UL-RL  6.7893E+04   337.6      0.000
1.000       1.000      26.15        0.000       0.000      10.00       10.00     Aate_364268_2050_L_0                0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   9 D   5.730    -2.7246E-06  29.31       27.56      105.0        52.52         UL-RL  6.7893E+04   337.4      1.091
1.000       1.000      28.65        0.000       0.000      10.00       10.00     Aate_364268_2050_L_0                0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  10 D   6.348    -2.6420E-06  31.12       28.65      106.9        53.43         UL-RL  6.7893E+04   337.2      3.086
1.000       1.000      31.74        0.000       0.000      10.00       10.00     Aate_364268_2050_L_0                0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  11 D   6.962    -2.5606E-06  32.92       29.73      108.7        54.33         UL-RL  6.7893E+04   337.0      5.080
1.000       1.000      34.81        0.000       0.000      10.00       10.00     Aate_364268_2050_L_0                0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  12 D   7.575    -2.4805E-06  34.73       30.80      110.5        55.24         UL-RL  6.7893E+04   336.8      7.075
1.000       1.000      37.88        0.000       0.000      10.00       10.00     Aate_364268_2050_L_0                0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  13 D   8.186    -2.4018E-06  36.53       31.86      112.3        56.14         UL-RL  6.7893E+04   336.6      9.069
1.000       1.000      40.93        0.000       0.000      10.00       10.00     Aate_364268_2050_L_0                0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  14 D   8.795    -2.3244E-06  38.34       32.91      114.1        57.05         UL-RL  6.7893E+04   336.4      11.06
1.000       1.000      43.98        0.000       0.000      10.00       10.00     Aate_364268_2050_L_0                0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  15 D   9.403    -2.2484E-06  40.14       33.95      115.9        57.95         UL-RL  6.7893E+04   336.2      13.06
1.000       1.000      47.01        0.000       0.000      10.00       10.00     Aate_364268_2050_L_0                0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  16 D   10.01    -2.1737E-06  41.95       34.99      117.7        58.86         UL-RL  6.7893E+04   336.0      15.05
1.000       1.000      50.04        0.000       0.000      10.00       10.00     Aate_364268_2050_L_0                0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  17 D   10.61    -2.1002E-06  43.76       36.02      119.5        59.76         UL-RL  6.7893E+04   335.8      17.05
1.000       1.000      53.06        0.000       0.000      10.00       10.00     Aate_364268_2050_L_0                0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  18 D   11.22    -2.0278E-06  45.56       37.04      121.3        60.67         UL-RL  6.7893E+04   335.6      19.04
1.000       1.000      56.08        0.000       0.000      10.00       10.00     Aate_364268_2050_L_0                0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  19 D   11.82    -1.9562E-06  47.37       38.05      123.1        61.57         UL-RL  6.7893E+04   335.4      21.04
1.000       1.000      59.09        0.000       0.000      10.00       10.00     Aate_364268_2050_L_0                0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  20 D   12.42    -1.8853E-06  49.17       39.06      124.9        62.47         UL-RL  6.7893E+04   335.2      23.03
1.000       1.000      62.10        0.000       0.000      10.00       10.00     Aate_364268_2050_L_0                0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  21 D   14.03    -8.0599E-08  50.98       45.15      126.8        71.24         UL-RL  3.7492E+05   335.0      25.03
1.000       1.000      70.17        0.000       0.000      10.00       10.00     Salt_1270_202756_L_0                0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  22 D   14.68    -8.3999E-08  52.98       46.39      128.8        72.37         UL-RL  3.7492E+05   334.8      27.02
```

```
1.000       1.000       73.41       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  23 D   15.33     -8.7262E-08   54.99       47.63       130.8       73.50          UL-RL  3.7492E+05   334.6       29.02
1.000       1.000       76.64       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  24 D   15.97     -9.0184E-08   56.99       48.86       132.8       74.63          UL-RL  3.7492E+05   334.4       31.01
1.000       1.000       79.87       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  25 D   16.62     -9.2597E-08   59.00       50.08       134.8       75.76          UL-RL  3.7492E+05   334.2       33.01
1.000       1.000       83.09       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  26 D   17.26     -9.4368E-08   61.01       51.31       136.8       76.88          UL-RL  3.7492E+05   334.0       35.00
1.000       1.000       86.31       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  27 D   17.90     -9.5394E-08   63.01       52.52       138.8       78.01          UL-RL  3.7492E+05   333.8       36.99
1.000       1.000       89.52       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  28 D   18.55     -9.5599E-08   65.02       53.74       140.8       79.14          UL-RL  3.7492E+05   333.6       38.99
1.000       1.000       92.73       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  29 D   19.19     -9.4928E-08   67.02       54.95       142.8       80.27          UL-RL  3.7492E+05   333.4       40.98
1.000       1.000       95.94       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  30 D   19.83     -9.3346E-08   69.03       56.16       144.8       81.40          UL-RL  3.7492E+05   333.2       42.98
1.000       1.000       99.14       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  31 D   20.47     -9.0835E-08   71.03       57.37       146.9       82.53          UL-RL  3.7492E+05   333.0       44.97
1.000       1.000       102.3       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  32 D   21.11     -8.7393E-08   73.04       58.57       148.9       83.66          UL-RL  3.7492E+05   332.8       46.97
1.000       1.000       105.5       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  33 D   21.75     -8.3024E-08   75.05       59.77       150.9       84.79          UL-RL  3.7492E+05   332.6       48.96
1.000       1.000       108.7       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  34 D   22.38     -7.7746E-08   77.05       60.97       152.9       85.92          UL-RL  3.7492E+05   332.4       50.96
1.000       1.000       111.9       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  35 D   23.02     -7.1583E-08   79.06       62.16       154.9       87.05          UL-RL  3.7492E+05   332.2       52.95
1.000       1.000       115.1       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  36 D   23.66     -6.4566E-08   81.06       63.36       156.9       88.18          UL-RL  3.7492E+05   332.0       54.95
1.000       1.000       118.3       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  37 D   24.30     -5.6731E-08   83.07       64.55       158.9       89.31          UL-RL  3.7492E+05   331.8       56.94
1.000       1.000       121.5       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  38 D   24.93     -4.8114E-08   85.07       65.74       160.9       90.44          UL-RL  3.7492E+05   331.6       58.94
1.000       1.000       124.7       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  39 D   25.57     -3.8769E-08   87.08       66.93       162.9       91.56          UL-RL  3.7492E+05   331.4       60.93
1.000       1.000       127.9       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  40 D   26.21     -2.8740E-08   89.08       68.11       164.9       92.69          UL-RL  3.7492E+05   331.2       62.93
1.000       1.000       131.0       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  41 D   25.31     -8.6463E-08   91.09       61.64       166.9       83.47          UL-RL  1.8384E+05   331.0       64.92
1.000       1.000       126.6       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  42 D   25.97     -8.6789E-08   93.59       62.95       169.4       84.72          UL-RL  1.8384E+05   330.8       66.92
1.000       1.000       129.9       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  43 D   26.63     -8.6597E-08   96.09       64.25       171.9       85.97          UL-RL  1.8384E+05   330.6       68.92
1.000       1.000       133.2       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  44 D   27.30     -8.5939E-08   98.59       65.56       174.4       87.22          UL-RL  1.8384E+05   330.4       70.92
1.000       1.000       136.5       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  45 D   27.96     -8.4868E-08   101.1       66.86       176.9       88.47          UL-RL  1.8384E+05   330.2       72.92
1.000       1.000       139.8       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  46 D   28.61     -8.3430E-08   103.6       68.16       179.5       89.73          UL-RL  1.8384E+05   330.0       74.92
1.000       1.000       143.1       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  47 D   29.27     -8.1671E-08   106.1       69.45       182.0       90.98          UL-RL  1.8384E+05   329.8       76.92
1.000       1.000       146.4       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  48 D   29.93     -7.9636E-08   108.6       70.75       184.5       92.23          UL-RL  1.8384E+05   329.6       78.92
1.000       1.000       149.7       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  49 D   30.59     -7.7361E-08   111.1       72.04       187.0       93.48          UL-RL  1.8384E+05   329.4       80.92
1.000       1.000       153.0       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  50 D   31.25     -7.4884E-08   113.6       73.34       189.5       94.73          UL-RL  1.8384E+05   329.2       82.92
1.000       1.000       156.3       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  51 D   31.91     -7.2237E-08   116.1       74.63       192.0       95.98          UL-RL  1.8384E+05   329.0       84.92
1.000       1.000       159.5       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  52 D   32.57     -6.9450E-08   118.6       75.92       194.5       97.23          UL-RL  1.8384E+05   328.8       86.92
1.000       1.000       162.8       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
```

53 D	33.22	-6.6549E-08	121.1	77.21	197.0	98.48	UL-RL	1.8384E+05	328.6	88.91
1.000	1.000	166.1	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
54 D	33.88	-6.3558E-08	123.6	78.49	199.5	99.73	UL-RL	1.8384E+05	328.4	90.91
1.000	1.000	169.4	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
55 D	34.54	-6.0496E-08	126.1	79.78	202.0	101.0	UL-RL	1.8384E+05	328.2	92.91
1.000	1.000	172.7	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
56 D	35.20	-5.7384E-08	128.6	81.07	204.5	102.2	UL-RL	1.8384E+05	328.0	94.91
1.000	1.000	176.0	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
57 D	35.85	-5.4237E-08	131.1	82.35	207.0	103.5	UL-RL	1.8384E+05	327.8	96.91
1.000	1.000	179.3	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
58 D	36.51	-5.1067E-08	133.6	83.63	209.5	104.7	UL-RL	1.8384E+05	327.6	98.91
1.000	1.000	182.5	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
59 D	37.17	-4.7886E-08	136.1	84.92	212.0	106.0	UL-RL	1.8384E+05	327.4	100.9
1.000	1.000	185.8	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
60 D	37.82	-4.4702E-08	138.6	86.20	214.5	107.2	UL-RL	1.8384E+05	327.2	102.9
1.000	1.000	189.1	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
61 D	38.48	-4.1522E-08	141.1	87.48	217.0	108.5	UL-RL	1.8384E+05	327.0	104.9
1.000	1.000	192.4	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
62 D	39.13	-3.8352E-08	143.6	88.76	219.5	109.7	UL-RL	1.8384E+05	326.8	106.9
1.000	1.000	195.7	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
63 D	39.79	-3.5195E-08	146.1	90.04	222.0	111.0	UL-RL	1.8384E+05	326.6	108.9
1.000	1.000	198.9	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
64 D	40.45	-3.2054E-08	148.6	91.31	224.5	112.2	UL-RL	1.8384E+05	326.4	110.9
1.000	1.000	202.2	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
65 D	41.10	-2.8931E-08	151.1	92.59	227.0	113.5	UL-RL	1.8384E+05	326.2	112.9
1.000	1.000	205.5	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
66 D	41.76	-2.5826E-08	153.6	93.87	229.5	114.7	UL-RL	1.8384E+05	326.0	114.9
1.000	1.000	208.8	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
67 D	42.41	-2.2738E-08	156.1	95.14	232.0	116.0	UL-RL	1.8384E+05	325.8	116.9
1.000	1.000	212.1	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
68 D	43.07	-1.9666E-08	158.6	96.42	234.5	117.2	UL-RL	1.8384E+05	325.6	118.9
1.000	1.000	215.3	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
69 D	43.72	-1.6608E-08	161.1	97.69	237.0	118.5	UL-RL	1.8384E+05	325.4	120.9
1.000	1.000	218.6	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
70 D	44.38	-1.3562E-08	163.6	98.97	239.5	119.7	UL-RL	1.8384E+05	325.2	122.9
1.000	1.000	221.9	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
71 D	45.03	-1.0524E-08	166.1	100.2	242.0	121.0	UL-RL	1.8384E+05	325.0	124.9
1.000	1.000	225.2	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
72 D	45.68	-7.4958E-09	168.6	101.5	244.5	122.2	UL-RL	1.8384E+05	324.8	126.9
1.000	1.000	228.4	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
73 D	46.34	-4.4724E-09	171.1	102.8	247.0	123.5	UL-RL	1.8384E+05	324.6	128.9
1.000	1.000	231.7	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
74 D	46.99	-1.4523E-09	173.6	104.1	249.5	124.7	UL-RL	1.8384E+05	324.4	130.9
1.000	1.000	235.0	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
75 D	47.65	1.5662E-09	176.1	105.3	252.0	126.0	UL-RL	1.8384E+05	324.2	132.9
1.000	1.000	238.2	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
76 D	24.15	4.5706E-09	178.6	106.6	254.5	127.2	UL-RL	1.8384E+05	324.0	134.9
1.000	1.000	241.5	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						

New Project

S T R E S S   R E S U L T S   F O R   G R O U P   N O.   3

Pali1500_253215   :
ELEMENT TYPE   2 NO.OF ELEMENTS. IN THIS GROUP   75
C U R R E N T   T I M E   I S   2.0000 SUBINCREMENT 00001/00001

 WALL2D ELEMENT

EL	TA	TB	MA	MB
1	-3.11486E-03	3.11486E-03	1.64313E-14	-6.22972E-04
2	-1.89641E-02	1.89641E-02	6.22972E-04	-4.41579E-03
3	-3.47015E-02	3.47015E-02	4.41579E-03	-1.13561E-02
4	-5.03253E-02	5.03253E-02	1.13561E-02	-2.14212E-02
5	-6.58310E-02	6.58310E-02	2.14212E-02	-3.45939E-02
6	-8.12105E-02	8.12105E-02	3.45939E-02	-5.08360E-02
7	-9.64509E-02	9.64509E-02	5.08360E-02	-7.01262E-02
8	-0.11153	0.11153	7.01262E-02	-9.24329E-02
9	-8.50802E-02	8.50802E-02	9.24329E-02	-0.10945
10	-5.99623E-02	5.99623E-02	0.10945	-0.12144
11	-3.60699E-02	3.60699E-02	0.12144	-0.12866
12	-1.32997E-02	1.32997E-02	0.12866	-0.13132
13	8.44483E-03	-8.44483E-03	0.13132	-0.12963
14	2.92534E-02	-2.92534E-02	0.12963	-0.12377
15	4.92098E-02	-4.92098E-02	0.12377	-0.11393
16	6.83903E-02	-6.83903E-02	0.11393	-0.10025
17	8.68630E-02	-8.68630E-02	0.10025	-8.28822E-02
18	0.10469	-0.10469	8.28822E-02	-6.19446E-02
19	0.12191	-0.12191	6.19446E-02	-3.75617E-02
20	0.13858	-0.13858	3.75617E-02	-9.84503E-03
21	0.11650	-0.11650	9.84503E-03	1.34673E-02
22	9.64532E-02	-9.64532E-02	-1.34673E-02	3.27579E-02
23	7.84239E-02	-7.84239E-02	-3.27579E-02	4.84427E-02
24	6.23700E-02	-6.23700E-02	-4.84427E-02	6.09167E-02
25	4.82159E-02	-4.82159E-02	-6.09167E-02	7.05599E-02
26	3.58614E-02	-3.58614E-02	-7.05599E-02	7.77321E-02
27	2.51878E-02	-2.51878E-02	-7.77321E-02	8.27697E-02
28	1.60620E-02	-1.60620E-02	-8.27697E-02	8.59821E-02
29	8.34066E-03	-8.34066E-03	-8.59821E-02	8.76511E-02
30	1.87432E-03	-1.87432E-03	-8.76511E-02	8.80259E-02
31	-3.49154E-03	3.49154E-03	-8.80259E-02	8.73276E-02
32	-7.91218E-03	7.91218E-03	-8.73276E-02	8.57452E-02
33	-1.15422E-02	1.15422E-02	-8.57452E-02	8.34368E-02
34	-1.45339E-02	1.45339E-02	-8.34368E-02	8.05300E-02
35	-1.70357E-02	1.70357E-02	-8.05300E-02	7.71228E-02
36	-1.91915E-02	1.91915E-02	-7.71228E-02	7.32845E-02
37	-2.11389E-02	2.11389E-02	-7.32845E-02	6.90546E-02
38	-2.30092E-02	2.30092E-02	-6.90546E-02	6.44528E-02
39	-2.49263E-02	2.49263E-02	-6.44528E-02	5.94675E-02
40	-2.70057E-02	2.70057E-02	-5.94675E-02	5.40664E-02
41	-2.62347E-02	2.62347E-02	-5.40664E-02	4.88195E-02
42	-2.52472E-02	2.52472E-02	-4.88195E-02	4.37700E-02
43	-2.40874E-02	2.40874E-02	-4.37700E-02	3.89525E-02
44	-2.27950E-02	2.27950E-02	-3.89525E-02	3.43935E-02
45	-2.14051E-02	2.14051E-02	-3.43935E-02	3.01125E-02
46	-1.99490E-02	1.99490E-02	-3.01125E-02	2.61207E-02
47	-1.84540E-02	1.84540E-02	-2.61207E-02	2.24299E-02
48	-1.69438E-02	1.69438E-02	-2.24299E-02	1.90411E-02
49	-1.54388E-02	1.54388E-02	-1.90411E-02	1.59534E-02
50	-1.39562E-02	1.39562E-02	-1.59534E-02	1.31621E-02
51	-1.25105E-02	1.25105E-02	-1.31621E-02	1.06600E-02
52	-1.11138E-02	1.11138E-02	-1.06600E-02	8.43730E-03
53	-9.77565E-03	9.77565E-03	-8.43730E-03	6.48217E-03
54	-8.50386E-03	8.50386E-03	-6.48217E-03	4.78054E-03
55	-7.30435E-03	7.30435E-03	-4.78054E-03	3.31967E-03
56	-6.18145E-03	6.18145E-03	-3.31967E-03	2.08338E-03
57	-5.13824E-03	5.13824E-03	-2.08338E-03	1.05574E-03
58	-4.17663E-03	4.17663E-03	-1.05574E-03	2.20409E-04
59	-3.29764E-03	3.29764E-03	-2.20409E-04	-4.39119E-04
60	-2.50150E-03	2.50150E-03	4.39119E-04	-9.39419E-04
61	-1.78786E-03	1.78786E-03	9.39419E-04	-1.29699E-03
62	-1.15592E-03	1.15592E-03	1.29699E-03	-1.52829E-03
63	-6.04582E-04	6.04582E-04	1.52829E-03	-1.64921E-03
64	-1.32463E-04	1.32463E-04	1.64921E-03	-1.67570E-03
65	2.61889E-04	-2.61889E-04	1.67570E-03	-1.62332E-03
66	5.79947E-04	-5.79947E-04	1.62332E-03	-1.50733E-03
67	8.23142E-04	-8.23142E-04	1.50733E-03	-1.34270E-03
68	9.92795E-04	-9.92795E-04	1.34270E-03	-1.14415E-03
69	1.09008E-03	-1.09008E-03	1.14415E-03	-9.26129E-04
70	1.11600E-03	-1.11600E-03	9.26129E-04	-7.02818E-04

```
   71 1.07130E-03-1.07130E-03 7.02818E-04-4.88558E-04
   72 9.56625E-04-9.56625E-04 4.88558E-04-2.97233E-04
   73 7.72372E-04-7.72372E-04 2.97233E-04-1.42759E-04
   74 5.18769E-04-5.18769E-04 1.42759E-04-3.90049E-05
   75 1.95906E-04-1.95906E-04 3.90049E-05 5.55112E-17

ITER     0 RNORM = 0.000     RMNORM= 0.000
           RINORM=0.6389E+05 RIMNOR=0.5181
           RENORM= 7856.     REMNOR=0.1559E-24 RATIO =0.3507     TOLER =0.1000E-03  NOT CONVERGED
           RFMAX = 42.19     RMMAX =0.1313
           RTSMAL=0.1000E-03 RMSMAL=0.1000E-05
           RDT   =0.6389E+05 RDR   =0.5181
           RATIOT=0.3507     RATIOR= 0.000
           MAX UN= 17.37     IEQ=    61 NODE     31 DOF   1  Y-DISPL.F
           MIN UN=-.1306E-12 IEQ=    32 NODE     16 DOF   2   X-ROT. F
           NO. OF CONTACT CONSTRAINT VIOLATIONS     0


ITER     2 RNORM = 0.000     RMNORM= 0.000
           RINORM=0.6389E+05 RIMNOR=0.5181
           RENORM= 1015.     REMNOR=0.6228E-18 RATIO =0.1260     TOLER =0.1000E-03  NOT CONVERGED
           RFMAX = 42.19     RMMAX =0.1313
           RTSMAL=0.1000E-03 RMSMAL=0.1000E-05
           RDT   =0.6389E+05 RDR   =0.5181
           RATIOT=0.1260     RATIOR= 0.000
           MAX UN= 10.20     IEQ=    41 NODE     21 DOF   1  Y-DISPL.F
           MIN UN=-.2805E-08 IEQ=    25 NODE     13 DOF   1  Y-DISPL.F
           NO. OF CONTACT CONSTRAINT VIOLATIONS     0


ITER     3 RNORM = 0.000     RMNORM= 0.000
           RINORM=0.6389E+05 RIMNOR=0.5181
           RENORM= 269.5     REMNOR=0.7001E-18 RATIO =0.6495E-01 TOLER =0.1000E-03  NOT CONVERGED
           RFMAX = 42.19     RMMAX =0.1313
           RTSMAL=0.1000E-03 RMSMAL=0.1000E-05
           RDT   =0.6389E+05 RDR   =0.5181
           RATIOT=0.6495E-01 RATIOR= 0.000
           MAX UN= 7.721     IEQ=    67 NODE     34 DOF   1  Y-DISPL.F
           MIN UN=-.4350E-08 IEQ=    49 NODE     25 DOF   1  Y-DISPL.F
           NO. OF CONTACT CONSTRAINT VIOLATIONS     0


ITER     4 RNORM = 0.000     RMNORM= 0.000
           RINORM=0.6389E+05 RIMNOR=0.5181
           RENORM= 24.37     REMNOR=0.3118E-17 RATIO =0.1953E-01 TOLER =0.1000E-03  NOT CONVERGED
           RFMAX = 42.19     RMMAX =0.1313
           RTSMAL=0.1000E-03 RMSMAL=0.1000E-05
           RDT   =0.6389E+05 RDR   =0.5181
           RATIOT=0.1953E-01 RATIOR= 0.000
           MAX UN= 4.224     IEQ=    81 NODE     41 DOF   1  Y-DISPL.F
           MIN UN=-.1920E-07 IEQ=    23 NODE     12 DOF   1  Y-DISPL.F
           NO. OF CONTACT CONSTRAINT VIOLATIONS     0


ITER     5 RNORM = 0.000     RMNORM= 0.000
           RINORM=0.6389E+05 RIMNOR=0.5181
           RENORM=0.4532E-01 REMNOR=0.9019E-18 RATIO =0.8423E-03 TOLER =0.1000E-03  NOT CONVERGED
           RFMAX = 42.19     RMMAX =0.1313
           RTSMAL=0.1000E-03 RMSMAL=0.1000E-05
           RDT   =0.6389E+05 RDR   =0.5181
           RATIOT=0.8423E-03 RATIOR= 0.000
           MAX UN=0.2129     IEQ=    87 NODE     44 DOF   1  Y-DISPL.F
           MIN UN=-.5408E-08 IEQ=    39 NODE     20 DOF   1  Y-DISPL.F
           NO. OF CONTACT CONSTRAINT VIOLATIONS     0


ITER     6 RNORM = 0.000     RMNORM= 0.000
           RINORM=0.6389E+05 RIMNOR=0.5181
           RENORM=0.2961E-15 REMNOR=0.8831E-18 RATIO =0.6807E-10 TOLER =0.1000E-03      CONVERGED !
           RFMAX = 42.19     RMMAX =0.1313
           RTSMAL=0.1000E-03 RMSMAL=0.1000E-05
           RDT   =0.6389E+05 RDR   =0.5181
           RATIOT=0.6807E-10 RATIOR= 0.000
           MAX UN=0.7551E-08 IEQ=     7 NODE      4 DOF   1  Y-DISPL.F
           MIN UN=-.6264E-08 IEQ=    37 NODE     19 DOF   1  Y-DISPL.F
           NO. OF CONTACT CONSTRAINT VIOLATIONS     0
```

```
+-------------------------------------------------------------------------------------------------------------------------+
|                   PARATIEPLUS(TM)   NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*              |
|                                                                                                                         |
|                                                ParatiePlus                                                              |
|                                  Exe Time :28 January 2022   16:22:47                                                   |
+-------------------------------------------------------------------------------------------------------------------------+
New Project
SOLUTION REACHED USING     6 ITERATIONS ON   80

P R I N T   O U T   F O R   T I M E   S T E P    3     ( AT TIME   3.000     ) SUBINCREMENT 00001/00001

PRINT OUT OF ACTIVE COMPONENTS (FIXED NODES ARE NOT PRINTED OUT)

          Y-DISPL.F        X-ROT. F
            02               04
    1   6.3345109E-03  -6.3304908E-04
    2   6.2079010E-03  -6.3304908E-04
    3   6.0812912E-03  -6.3304908E-04
    4   5.9546814E-03  -6.3304908E-04
    5   5.8280716E-03  -6.3304908E-04
    6   5.7013985E-03  -6.3304908E-04
    7   5.5747887E-03  -6.3304908E-04
    8   5.4481789E-03  -6.3304908E-04
    9   5.3184162E-03  -6.3304908E-04
   10   5.1918952E-03  -6.3304873E-04
   11   5.0653745E-03  -6.3304633E-04
   12   4.9388547E-03  -6.3303802E-04
   13   4.8123378E-03  -6.3301676E-04
   14   4.6857640E-03  -6.3297153E-04
   15   4.5592661E-03  -6.3288744E-04
   16   4.4327905E-03  -6.3274559E-04
   17   4.3063509E-03  -6.3252316E-04
   18   4.1799660E-03  -6.3219336E-04
   19   4.0536604E-03  -6.3172545E-04
   20   3.9274650E-03  -6.3108475E-04
   21   3.8031524E-03  -6.3023264E-04
   22   3.6771645E-03  -6.2911718E-04
   23   3.5514943E-03  -6.2767486E-04
   24   3.4261511E-03  -6.2583542E-04
   25   3.3012217E-03  -6.2352387E-04
   26   3.1768084E-03  -6.2066006E-04
   27   3.0530302E-03  -6.1715862E-04
   28   2.9300235E-03  -6.1292903E-04
   29   2.8079435E-03  -6.0787558E-04
   30   2.6869048E-03  -6.0189412E-04
   31   2.5672239E-03  -5.9488454E-04
   32   2.4490545E-03  -5.8677203E-04
   33   2.3326202E-03  -5.7753301E-04
   34   2.2181465E-03  -5.6716763E-04
   35   2.1058569E-03  -5.5569597E-04
   36   1.9959697E-03  -5.4315022E-04
   37   1.8886958E-03  -5.2957069E-04
   38   1.7841857E-03  -5.1499825E-04
   39   1.6827355E-03  -4.9950395E-04
   40   1.5844717E-03  -4.8314536E-04
   41   1.4894918E-03  -4.6599517E-04
   42   1.3980683E-03  -4.4817663E-04
   43   1.3102612E-03  -4.2985983E-04
   44   1.2261531E-03  -4.1121557E-04
   45   1.1457924E-03  -3.9241406E-04
   46   1.0691941E-03  -3.7361739E-04
   47   9.9630674E-04  -3.5496317E-04
   48   9.2715949E-04  -3.3660132E-04
   49   8.6164649E-04  -3.1863892E-04
   50   7.9967738E-04  -3.0117834E-04
   51   7.4114267E-04  -2.8430863E-04
   52   6.8591634E-04  -2.6810626E-04
   53   6.3385828E-04  -2.5263585E-04
   54   5.8481655E-04  -2.3795083E-04
   55   5.3860723E-04  -2.2408740E-04
   56   4.9510729E-04  -2.1109248E-04
   57   4.5411814E-04  -1.9898268E-04
   58   4.1546111E-04  -1.8777304E-04
   59   3.7895536E-04  -1.7747041E-04
   60   3.4441945E-04  -1.6807391E-04
   61   3.1167284E-04  -1.5957540E-04
   62   2.8053733E-04  -1.5195989E-04
   63   2.5082384E-04  -1.4520269E-04
   64   2.2239238E-04  -1.3928290E-04
   65   1.9506424E-04  -1.3416338E-04
   66   1.6868320E-04  -1.2980494E-04
   67   1.4310141E-04  -1.2616301E-04
   68   1.1818046E-04  -1.2318776E-04
   69   9.3792423E-05  -1.2082433E-04
   70   6.9820837E-05  -1.1901288E-04
   71   4.6149926E-05  -1.1768818E-04
   72   2.2712718E-05  -1.1678210E-04
   73  -5.7891257E-07  -1.1621965E-04
   74  -2.3785884E-05  -1.1592196E-04
```

```
75  -4.6952865E-05  -1.1580544E-04
76  -7.0003157E-05  -1.1578184E-04
```

```
+-----------------------------------------------------------------------------------------------------------------------+
|                  PARATIEPLUS(TM)   NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*             |
|                                                                                                                       |
|                                              ParatiePlus                                                              |
|                                  Exe Time :28 January 2022   16:22:47                                                 |
+-----------------------------------------------------------------------------------------------------------------------+
New Project


S T R E S S   R E S U L T S   F O R   G R O U P   N O.   1

0_L                                                    :
ELEMENT TYPE    5 NO.OF ELEMENTS. IN THIS GROUP   76
C U R R E N T   T I M E   I S      3.0000 SUBINCREMENT 00001/00001

 HARDENING 2D SOIL ELEMENT

 ****** TOTAL STRESS FORMULATION *****

  EL *   FORCE     DISPL-Y  VERTICAL-P  HORIZON.-P     MAX-V-P     MAX-H-P          STATE   STIFFNESS Z-LEVEL      PORE       E FAC-
TOR    UFACTOR       Peq          Su_a        Su_p        Cohe_a      Cohe_p     LAYER                                ZFO         QS
QSL          ZD          ZPL          Kz
 ------------------------------------------------------------------------------------------------------------------------------------
------------------------------------------------------------------------------------------------------------------------------------
-----------------------------------------------
   1 D   0.000     -6.3345E-03   0.000       0.000       76.00       38.00          ACTIVE   0.000       339.0       0.000
1.000       1.000       0.000       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   2 D   0.000     -6.2079E-03   3.800       0.000       79.80       39.90          ACTIVE   0.000       338.8       0.000
1.000       1.000       0.000       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   3 D   0.000     -6.0813E-03   7.600       0.000       83.60       41.80          ACTIVE   0.000       338.6       0.000
1.000       1.000       0.000       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   4 D   0.000     -5.9547E-03   11.40       0.000       87.40       43.70          ACTIVE   0.000       338.4       0.000
1.000       1.000       0.000       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   5 D   0.000     -5.8281E-03   15.20       0.000       91.20       45.60          ACTIVE   0.000       338.2       0.000
1.000       1.000       0.000       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   6 D   0.000     -5.7014E-03   19.00       0.000       95.00       47.50          ACTIVE   0.000       338.0       0.000
1.000       1.000       0.000       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   7 D   0.000     -5.5748E-03   22.80       0.000       98.80       49.40          ACTIVE   0.000       337.8       0.000
1.000       1.000       0.000       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   8 D   0.000     -5.4482E-03   26.60       0.000       102.6       51.30          ACTIVE   0.000       337.6       0.000
1.000       1.000       0.000       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   9 D  6.5762E-02 -5.3184E-03   30.07       0.000       105.7       52.96          ACTIVE   0.000       337.4       0.3288
1.000       1.000      0.3288       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  10 D  0.2534     -5.1919E-03   32.93       0.000       107.5       53.85          ACTIVE   0.000       337.2       1.267
1.000       1.000       1.267       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  11 D  0.4765     -5.0654E-03   35.80      0.1776       109.3       54.74          ACTIVE   0.000       337.0       2.205
1.000       1.000       2.383       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  12 D  0.8485     -4.9389E-03   38.66       1.099       111.1       55.64          ACTIVE   0.000       336.8       3.143
1.000       1.000       4.242       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  13 D   1.220     -4.8123E-03   41.52       2.021       112.9       56.53          ACTIVE   0.000       336.6       4.081
1.000       1.000       6.102       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  14 D   1.593     -4.6858E-03   44.38       2.943       114.7       57.42          ACTIVE   0.000       336.4       5.020
1.000       1.000       7.963       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  15 D   1.964     -4.5593E-03   47.25       3.864       116.4       58.31          ACTIVE   0.000       336.2       5.958
1.000       1.000       9.822       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  16 D   2.336     -4.4328E-03   50.11       4.786       118.2       59.21          ACTIVE   0.000       336.0       6.896
1.000       1.000       11.68       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  17 D   2.708     -4.3064E-03   52.97       5.707       120.0       60.10          ACTIVE   0.000       335.8       7.834
1.000       1.000       13.54       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  18 D   3.080     -4.1800E-03   55.83       6.629       121.8       60.99          ACTIVE   0.000       335.6       8.772
1.000       1.000       15.40       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  19 D   3.452     -4.0537E-03   58.69       7.550       123.6       61.88          ACTIVE   0.000       335.4       9.710
1.000       1.000       17.26       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  20 D   3.824     -3.9275E-03   61.56       8.472       125.4       62.78          ACTIVE   0.000       335.2       10.65
1.000       1.000       19.12       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  21 D   5.840     -3.8032E-03   64.42       17.61       127.2       71.54          ACTIVE   0.000       335.0       11.59
1.000       1.000       29.20       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  22 D   6.329     -3.6772E-03   67.48       19.12       129.2       72.65          ACTIVE   0.000       334.8       12.53
```

```
1.000       1.000       31.64       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  23 D   6.817     -3.5515E-03   70.54       20.62       131.2       73.77         ACTIVE   0.000       334.6       13.46
1.000       1.000       34.09       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  24 D   7.305     -3.4262E-03   73.60       22.13       133.2       74.89         ACTIVE   0.000       334.4       14.40
1.000       1.000       36.53       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  25 D   7.794     -3.3012E-03   76.67       23.63       135.2       76.00         ACTIVE   0.000       334.2       15.34
1.000       1.000       38.97       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  26 D   8.282     -3.1768E-03   79.73       25.13       137.1       77.12         ACTIVE   0.000       334.0       16.28
1.000       1.000       41.41       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  27 D   8.770     -3.0530E-03   82.79       26.64       139.1       78.24         ACTIVE   0.000       333.8       17.22
1.000       1.000       43.85       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  28 D   9.259     -2.9300E-03   85.85       28.14       141.1       79.35         ACTIVE   0.000       333.6       18.15
1.000       1.000       46.29       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  29 D   9.747     -2.8079E-03   88.91       29.64       143.1       80.47         ACTIVE   0.000       333.4       19.09
1.000       1.000       48.73       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  30 D   10.24     -2.6869E-03   91.98       31.15       145.1       81.59         ACTIVE   0.000       333.2       20.03
1.000       1.000       51.18       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  31 D   10.72     -2.5672E-03   95.04       32.65       147.1       82.70         ACTIVE   0.000       333.0       20.97
1.000       1.000       53.62       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  32 D   11.21     -2.4491E-03   98.10       34.15       149.1       83.82         ACTIVE   0.000       332.8       21.91
1.000       1.000       56.06       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  33 D   11.70     -2.3326E-03   101.2       35.66       151.1       84.93         ACTIVE   0.000       332.6       22.85
1.000       1.000       58.50       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  34 D   12.19     -2.2181E-03   104.2       37.16       153.1       86.05         ACTIVE   0.000       332.4       23.78
1.000       1.000       60.94       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  35 D   12.68     -2.1059E-03   107.3       38.66       155.1       87.17         ACTIVE   0.000       332.2       24.72
1.000       1.000       63.38       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  36 D   13.17     -1.9960E-03   110.3       40.17       157.1       88.28         ACTIVE   0.000       332.0       25.66
1.000       1.000       65.83       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  37 D   13.65     -1.8887E-03   113.4       41.67       159.0       89.40         ACTIVE   0.000       331.8       26.60
1.000       1.000       68.27       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  38 D   14.14     -1.7842E-03   116.5       43.17       161.0       90.52         ACTIVE   0.000       331.6       27.54
1.000       1.000       70.71       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  39 D   14.63     -1.6827E-03   119.5       44.68       163.0       91.63         ACTIVE   0.000       331.4       28.47
1.000       1.000       73.15       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  40 D   15.12     -1.5845E-03   122.6       46.18       165.0       92.75         ACTIVE   0.000       331.2       29.41
1.000       1.000       75.59       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  41 D   6.071     -1.4895E-03   125.7       0.000       167.0       83.51         ACTIVE   0.000       331.0       30.35
1.000       1.000       30.35       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  42 D   6.449     -1.3981E-03   128.3       0.000       169.5       84.76         ACTIVE   0.000       330.8       32.25
1.000       1.000       32.25       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  43 D   6.828     -1.3103E-03   130.9       0.000       172.0       86.01         ACTIVE   0.000       330.6       34.14
1.000       1.000       34.14       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  44 D   7.462     -1.2262E-03   133.5       1.274       174.5       87.26          UL-RL  6.1194E+04   330.4       36.03
1.000       1.000       37.31       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  45 D   9.082     -1.1458E-03   136.1       7.483       177.0       88.51          UL-RL  6.1194E+04   330.2       37.93
1.000       1.000       45.41       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  46 D   10.66     -1.0692E-03   138.7       13.46       179.5       89.76          UL-RL  6.1194E+04   330.0       39.82
1.000       1.000       53.28       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  47 D   12.19     -9.9631E-04   141.3       19.21       182.0       91.01          UL-RL  6.1194E+04   329.8       41.72
1.000       1.000       60.93       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  48 D   13.67     -9.2716E-04   143.9       24.73       184.5       92.26          UL-RL  6.1194E+04   329.6       43.61
1.000       1.000       68.34       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  49 D   15.11     -8.6165E-04   146.5       30.03       187.0       93.51          UL-RL  6.1194E+04   329.4       45.50
1.000       1.000       75.54       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  50 D   16.50     -7.9968E-04   149.1       35.11       189.5       94.76          UL-RL  6.1194E+04   329.2       47.40
1.000       1.000       82.51       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  51 D   17.86     -7.4114E-04   151.7       39.98       192.0       96.01          UL-RL  6.1194E+04   329.0       49.29
1.000       1.000       89.28       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  52 D   19.17     -6.8592E-04   154.3       44.65       194.5       97.26          UL-RL  6.1194E+04   328.8       51.19
1.000       1.000       95.84       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
```

53 D	20.44	-6.3386E-04	156.9	49.13	197.0	98.51	UL-RL	6.1194E+04	328.6	53.08	
1.000	1.000	102.2	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
54 D	21.68	-5.8482E-04	159.5	53.41	199.5	99.76	UL-RL	6.1194E+04	328.4	54.97	
1.000	1.000	108.4	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
55 D	22.88	-5.3861E-04	162.1	57.53	202.0	101.0	UL-RL	6.1194E+04	328.2	56.87	
1.000	1.000	114.4	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
56 D	24.05	-4.9511E-04	164.8	61.48	204.5	102.3	UL-RL	6.1194E+04	328.0	58.76	
1.000	1.000	120.2	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
57 D	25.19	-4.5412E-04	167.4	65.27	207.0	103.5	UL-RL	6.1194E+04	327.8	60.66	
1.000	1.000	125.9	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
58 D	26.29	-4.1546E-04	170.0	68.92	209.5	104.8	UL-RL	6.1194E+04	327.6	62.55	
1.000	1.000	131.5	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
59 D	27.38	-3.7896E-04	172.6	72.44	212.0	106.0	UL-RL	6.1194E+04	327.4	64.44	
1.000	1.000	136.9	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
60 D	28.44	-3.4442E-04	175.2	75.84	214.5	107.3	UL-RL	6.1194E+04	327.2	66.34	
1.000	1.000	142.2	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
61 D	29.47	-3.1167E-04	177.8	79.13	217.0	108.5	UL-RL	6.1194E+04	327.0	68.23	
1.000	1.000	147.4	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
62 D	30.49	-2.8054E-04	180.4	82.32	219.5	109.8	UL-RL	6.1194E+04	326.8	70.12	
1.000	1.000	152.4	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
63 D	31.49	-2.5082E-04	183.0	85.43	222.0	111.0	UL-RL	6.1194E+04	326.6	72.02	
1.000	1.000	157.4	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
64 D	32.47	-2.2239E-04	185.6	88.45	224.5	112.2	UL-RL	6.1194E+04	326.4	73.91	
1.000	1.000	162.4	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
65 D	33.44	-1.9506E-04	188.2	91.41	227.0	113.5	UL-RL	6.1194E+04	326.2	75.81	
1.000	1.000	167.2	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
66 D	34.40	-1.6868E-04	190.8	94.31	229.5	114.7	UL-RL	6.1194E+04	326.0	77.70	
1.000	1.000	172.0	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
67 D	35.35	-1.4310E-04	193.4	97.16	232.0	116.0	UL-RL	6.1194E+04	325.8	79.59	
1.000	1.000	176.8	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
68 D	36.29	-1.1818E-04	196.0	99.97	234.5	117.2	UL-RL	6.1194E+04	325.6	81.49	
1.000	1.000	181.5	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
69 D	37.22	-9.3792E-05	198.6	102.7	237.0	118.5	UL-RL	6.1194E+04	325.4	83.38	
1.000	1.000	186.1	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
70 D	38.15	-6.9821E-05	201.2	105.5	239.5	119.7	UL-RL	6.1194E+04	325.2	85.28	
1.000	1.000	190.8	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
71 D	39.08	-4.6150E-05	203.8	108.2	242.0	121.0	UL-RL	6.1194E+04	325.0	87.17	
1.000	1.000	195.4	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
72 D	40.00	-2.2713E-05	206.5	110.9	244.5	122.2	UL-RL	6.1194E+04	324.8	89.06	
1.000	1.000	200.0	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
73 D	40.92	5.7891E-07	209.1	113.7	247.0	123.5	UL-RL	6.1194E+04	324.6	90.96	
1.000	1.000	204.6	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
74 D	41.84	2.3786E-05	211.7	116.4	249.5	124.7	UL-RL	6.1194E+04	324.4	92.85	
1.000	1.000	209.2	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
75 D	42.76	4.6953E-05	214.3	119.1	252.0	126.0	UL-RL	6.1194E+04	324.2	94.75	
1.000	1.000	213.8	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
76 D	21.84	7.0003E-05	216.9	121.7	254.5	127.2	UL-RL	6.1194E+04	324.0	96.63	
1.000	1.000	218.4	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							

New Project

S T R E S S R E S U L T S F O R G R O U P N O. 2

0_R :
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 76
C U R R E N T T I M E I S 3.0000 SUBINCREMENT 00001/00001

HARDENING 2D SOIL ELEMENT

****** TOTAL STRESS FORMULATION *****

EL * TOR	FORCE UFACTOR	DISPL-Y Peq	VERTICAL-P Su_a	HORIZON.-P Su_p	MAX-V-P Cohe_a	MAX-H-P Cohe_p	STATE LAYER	STIFFNESS	Z-LEVEL ZFO	PORE	E FAC-QS
QSL	ZD	ZPL	Kz								
1	0.000	--	--	--	--	--	REMOVED	--	339.0	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
2	0.000	--	--	--	--	--	REMOVED	--	338.8	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
3	0.000	--	--	--	--	--	REMOVED	--	338.6	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
4	0.000	--	--	--	--	--	REMOVED	--	338.4	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
5	0.000	--	--	--	--	--	REMOVED	--	338.2	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
6	0.000	--	--	--	--	--	REMOVED	--	338.0	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
7	0.000	--	--	--	--	--	REMOVED	--	337.8	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
8	0.000	--	--	--	--	--	REMOVED	--	337.6	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
9	0.000	--	--	--	--	--	REMOVED	--	337.4	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
10	0.000	--	--	--	--	--	REMOVED	--	337.2	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
11	0.000	--	--	--	--	--	REMOVED	--	337.0	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
12	0.000	--	--	--	--	--	REMOVED	--	336.8	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
13	0.000	--	--	--	--	--	REMOVED	--	336.6	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
14	0.000	--	--	--	--	--	REMOVED	--	336.4	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
15	0.000	--	--	--	--	--	REMOVED	--	336.2	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
16	0.000	--	--	--	--	--	REMOVED	--	336.0	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
17	0.000	--	--	--	--	--	REMOVED	--	335.8	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
18	0.000	--	--	--	--	--	REMOVED	--	335.6	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
19	0.000	--	--	--	--	--	REMOVED	--	335.4	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
20	0.000	--	--	--	--	--	REMOVED	--	335.2	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
21	0.000	--	--	--	--	--	REMOVED	--	335.0	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
22	0.000	--	--	--	--	--	REMOVED	--	334.8	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
23	0.000	--	--	--	--	--	REMOVED	--	334.6	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
24	0.000	--	--	--	--	--	REMOVED	--	334.4	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
25	0.000	--	--	--	--	--	REMOVED	--	334.2	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
26	0.000	--	--	--	--	--	REMOVED	--	334.0	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
27	0.000	--	--	--	--	--	REMOVED	--	333.8	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
28	0.000	--	--	--	--	--	REMOVED	--	333.6	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
29	0.000	--	--	--	--	--	REMOVED	--	333.4	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
30	0.000	--	--	--	--	--	REMOVED	--	333.2	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
31 D	7.385	2.5672E-03	8.0000E-03	36.93	146.9	82.53	PASSIVE	0.000	333.0	0.000	
1.000	1.000	36.93	0.000	0.000	10.00	10.00	Salt_1270_202756_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
32 D	10.11	2.4491E-03	4.008	50.54	148.9	83.66	PASSIVE	0.000	332.8	0.000	

```
1.000       1.000       50.54       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  33 D   12.83       2.3326E-03  8.008       64.16       150.9       84.79        PASSIVE   0.000       332.6       0.000
1.000       1.000       64.16       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  34 D   14.84       2.2181E-03  10.52       72.71       152.9       85.92        PASSIVE   0.000       332.4       1.488
1.000       1.000       74.20       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  35 D   16.09       2.1059E-03  11.46       75.90       154.9       87.05        PASSIVE   0.000       332.2       4.550
1.000       1.000       80.45       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  36 D   17.34       1.9960E-03  12.40       79.10       156.9       88.18        PASSIVE   0.000       332.0       7.612
1.000       1.000       86.71       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  37 D   18.59       1.8887E-03  13.33       82.29       158.9       89.31        PASSIVE   0.000       331.8       10.67
1.000       1.000       92.96       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  38 D   19.84       1.7842E-03  14.27       85.48       160.9       90.44        PASSIVE   0.000       331.6       13.74
1.000       1.000       99.22       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  39 D   21.10       1.6827E-03  15.21       88.68       162.9       91.56        PASSIVE   0.000       331.4       16.80
1.000       1.000       105.5       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  40 D   22.35       1.5845E-03  16.15       91.87       164.9       92.69        PASSIVE   0.000       331.2       19.86
1.000       1.000       111.7       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  41 D   22.06       1.4895E-03  17.09       87.37       166.9       87.37          V-C  1.5320E+04   331.0       22.92
1.000       1.000       110.3       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  42 D   22.50       1.3981E-03  19.48       87.47       169.4       87.47          V-C  1.5320E+04   330.8       25.03
1.000       1.000       112.5       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  43 D   22.95       1.3103E-03  21.88       87.61       171.9       87.61          V-C  1.5320E+04   330.6       27.13
1.000       1.000       114.7       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  44 D   23.40       1.2262E-03  24.27       87.78       174.4       87.78          V-C  1.5320E+04   330.4       29.24
1.000       1.000       117.0       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  45 D   23.67       1.1458E-03  26.67       86.99       176.9       88.47         UL-RL  4.5960E+04   330.2       31.35
1.000       1.000       118.3       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  46 D   23.74       1.0692E-03  29.06       85.24       179.5       89.73         UL-RL  4.5960E+04   330.0       33.45
1.000       1.000       118.7       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  47 D   23.83       9.9631E-04  31.45       83.61       182.0       90.98         UL-RL  4.5960E+04   329.8       35.56
1.000       1.000       119.2       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  48 D   23.95       9.2716E-04  33.85       82.11       184.5       92.23         UL-RL  4.5960E+04   329.6       37.66
1.000       1.000       119.8       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  49 D   24.10       8.6165E-04  36.24       80.75       187.0       93.48         UL-RL  4.5960E+04   329.4       39.77
1.000       1.000       120.5       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  50 D   24.28       7.9968E-04  38.64       79.52       189.5       94.73         UL-RL  4.5960E+04   329.2       41.88
1.000       1.000       121.4       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  51 D   24.48       7.4114E-04  41.03       78.43       192.0       95.98         UL-RL  4.5960E+04   329.0       43.98
1.000       1.000       122.4       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  52 D   24.71       6.8592E-04  43.42       77.46       194.5       97.23         UL-RL  4.5960E+04   328.8       46.09
1.000       1.000       123.6       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  53 D   24.96       6.3386E-04  45.82       76.62       197.0       98.48         UL-RL  4.5960E+04   328.6       48.20
1.000       1.000       124.8       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  54 D   25.24       5.8482E-04  48.21       75.90       199.5       99.73         UL-RL  4.5960E+04   328.4       50.30
1.000       1.000       126.2       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  55 D   25.54       5.3861E-04  50.61       75.29       202.0       101.0         UL-RL  4.5960E+04   328.2       52.41
1.000       1.000       127.7       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  56 D   25.86       4.9511E-04  53.00       74.80       204.5       102.2         UL-RL  4.5960E+04   328.0       54.52
1.000       1.000       129.3       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  57 D   26.20       4.5412E-04  55.39       74.40       207.0       103.5         UL-RL  4.5960E+04   327.8       56.62
1.000       1.000       131.0       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  58 D   26.57       4.1546E-04  57.79       74.10       209.5       104.7         UL-RL  4.5960E+04   327.6       58.73
1.000       1.000       132.8       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  59 D   26.94       3.7896E-04  60.18       73.88       212.0       106.0         UL-RL  4.5960E+04   327.4       60.83
1.000       1.000       134.7       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  60 D   27.34       3.4442E-04  62.58       73.75       214.5       107.2         UL-RL  4.5960E+04   327.2       62.94
1.000       1.000       136.7       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  61 D   27.75       3.1167E-04  64.97       73.68       217.0       108.5         UL-RL  4.5960E+04   327.0       65.05
1.000       1.000       138.7       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  62 D   28.17       2.8054E-04  67.36       73.68       219.5       109.7         UL-RL  4.5960E+04   326.8       67.15
1.000       1.000       140.8       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
```

63 D	28.60	2.5082E-04	69.76	73.74	222.0	111.0	UL-RL	4.5960E+04	326.6	69.26
1.000	1.000	143.0	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
64 D	29.04	2.2239E-04	72.15	73.85	224.5	112.2	UL-RL	4.5960E+04	326.4	71.37
1.000	1.000	145.2	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
65 D	29.49	1.9506E-04	74.55	74.00	227.0	113.5	UL-RL	4.5960E+04	326.2	73.47
1.000	1.000	147.5	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
66 D	29.95	1.6868E-04	76.94	74.19	229.5	114.7	UL-RL	4.5960E+04	326.0	75.58
1.000	1.000	149.8	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
67 D	30.42	1.4310E-04	79.33	74.40	232.0	116.0	UL-RL	4.5960E+04	325.8	77.68
1.000	1.000	152.1	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
68 D	30.89	1.1818E-04	81.73	74.64	234.5	117.2	UL-RL	4.5960E+04	325.6	79.79
1.000	1.000	154.4	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
69 D	31.36	9.3792E-05	84.12	74.90	237.0	118.5	UL-RL	4.5960E+04	325.4	81.90
1.000	1.000	156.8	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
70 D	31.84	6.9821E-05	86.52	75.18	239.5	119.7	UL-RL	4.5960E+04	325.2	84.00
1.000	1.000	159.2	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
71 D	32.31	4.6150E-05	88.91	75.46	242.0	121.0	UL-RL	4.5960E+04	325.0	86.11
1.000	1.000	161.6	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
72 D	32.79	2.2713E-05	91.30	75.75	244.5	122.2	UL-RL	4.5960E+04	324.8	88.22
1.000	1.000	164.0	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
73 D	33.27	-5.7891E-07	93.70	76.03	247.0	123.5	UL-RL	4.5960E+04	324.6	90.32
1.000	1.000	166.4	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
74 D	33.75	-2.3786E-05	96.09	76.32	249.5	124.7	UL-RL	4.5960E+04	324.4	92.43
1.000	1.000	168.8	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
75 D	34.23	-4.6953E-05	98.49	76.61	252.0	126.0	UL-RL	4.5960E+04	324.2	94.53
1.000	1.000	171.1	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
76 D	17.35	-7.0003E-05	100.9	76.89	254.5	127.2	UL-RL	4.5960E+04	324.0	96.63
1.000	1.000	173.5	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						

New Project

S T R E S S   R E S U L T S   F O R   G R O U P   N O.   3

Pali1500_253215   :
ELEMENT TYPE   2 NO.OF ELEMENTS. IN THIS GROUP   75
C U R R E N T   T I M E   I S   3.0000 SUBINCREMENT 00001/00001

 WALL2D ELEMENT

EL	TA	TB	MA	MB
1	-1.19736E-09	1.19736E-09	-1.19282E-10	8.88471E-10
2	-1.53409E-09	1.53409E-09	-1.16178E-09	8.30162E-10
3	3.13212E-09	-3.13212E-09	-6.72778E-10	2.00906E-09
4	-4.41918E-09	4.41918E-09	-2.13807E-09	6.76506E-10
5	1.81842E-09	-1.81842E-09	-9.36781E-10	2.08595E-09
6	-8.26272E-11	8.26272E-11	-1.91563E-09	2.38201E-09
7	-4.74513E-10	4.74513E-10	-2.44132E-09	2.26580E-09
8	-1.46397E-09	1.46397E-09	-2.46500E-09	1.30305E-09
9	6.57623E-02	-6.57623E-02	-1.23531E-09	1.31525E-02
10	0.31915	-0.31915	-1.31525E-02	7.69823E-02
11	0.79568	-0.79568	-7.69823E-02	0.23612
12	1.6441	-1.6441	-0.23612	0.56494
13	2.8645	-2.8645	-0.56494	1.1381
14	4.4570	-4.4570	-1.1381	2.0295
15	6.4214	-6.4214	-2.0295	3.3138
16	8.7578	-8.7578	-3.3138	5.0654
17	11.466	-11.466	-5.0654	7.3586
18	14.546	-14.546	-7.3586	10.268
19	17.998	-17.998	-10.268	13.868
20	21.823	-21.823	-13.868	18.232
21	27.663	-27.663	-18.232	23.767
22	33.992	-33.992	-23.767	30.566
23	40.809	-40.809	-30.566	38.727
24	48.114	-48.114	-38.727	48.350
25	55.908	-55.908	-48.350	59.532
26	64.190	-64.190	-59.532	72.370
27	72.960	-72.960	-72.370	86.962
28	82.219	-82.219	-86.962	103.41
29	91.966	-91.966	-103.41	121.81
30	102.20	-102.20	-121.81	142.25
31	105.54	-105.54	-142.25	163.36
32	106.64	-106.64	-163.36	184.68
33	105.51	-105.51	-184.68	205.79
34	102.86	-102.86	-205.79	226.36
35	99.447	-99.447	-226.36	246.25
36	95.271	-95.271	-246.25	265.30
37	90.331	-90.331	-265.30	283.38
38	84.629	-84.629	-283.38	300.30
39	78.164	-78.164	-300.30	315.94
40	70.936	-70.936	-315.94	330.12
41	54.950	-54.950	-330.12	341.11
42	38.899	-38.899	-341.11	348.89
43	22.779	-22.779	-348.89	353.45
44	6.8380	-6.8380	-353.45	354.82
45	-7.7478	7.7478	-354.82	353.27
46	-20.829	20.829	-353.27	349.10
47	-32.475	32.475	-349.10	342.60
48	-42.761	42.761	-342.60	334.05
49	-51.758	51.758	-334.05	323.70
50	-59.535	59.535	-323.70	311.79
51	-66.162	66.162	-311.79	298.56
52	-71.704	71.704	-298.56	284.22
53	-76.227	76.227	-284.22	268.98
54	-79.790	79.790	-268.98	253.01
55	-82.451	82.451	-253.01	236.52
56	-84.265	84.265	-236.52	219.67
57	-85.284	85.284	-219.67	202.61
58	-85.554	85.554	-202.61	185.50
59	-85.120	85.120	-185.50	168.47
60	-84.021	84.021	-168.47	151.67
61	-82.294	82.294	-151.67	135.21
62	-79.971	79.971	-135.21	119.21
63	-77.082	77.082	-119.21	103.79
64	-73.651	73.651	-103.79	89.063
65	-69.702	69.702	-89.063	75.123
66	-65.253	65.253	-75.123	62.072
67	-60.320	60.320	-62.072	50.008
68	-54.916	54.916	-50.008	39.025
69	-49.051	49.051	-39.025	29.214
70	-42.733	42.733	-29.214	20.663

```
   71 -35.968      35.968     -20.663      13.470
   72 -28.759      28.759     -13.470      7.7180
   73 -21.108      21.108     -7.7180      3.4964
   74 -13.017      13.017     -3.4964     0.89302
   75 -4.4853      4.4853    -0.89302    -2.55257E-12

ITER     0 RNORM = 293.3     RMNORM= 0.000
           RINORM=0.5817E+06 RIMNOR=0.5006E+07
           RENORM= 347.0     REMNOR=0.8831E-18 RATIO =0.2442E-01 TOLER =0.1000E-03  NOT CONVERGED
           RFMAX = 106.6     RMMAX = 354.8
           RTSMAL=0.1000E-02 RMSMAL=0.1000E-02
           RDT   =0.5817E+06 RDR   =0.5006E+07
           RATIOT=0.2442E-01 RATIOR= 0.000
           MAX UN= 3.383     IEQ=    79 NODE     40 DOF   1  Y-DISPL.F
           MIN UN=-.1468E-08 IEQ=    85 NODE     43 DOF   1  Y-DISPL.F
           NO. OF CONTACT CONSTRAINT VIOLATIONS     0


ITER     2 RNORM = 293.3     RMNORM= 0.000
           RINORM=0.5817E+06 RIMNOR=0.5006E+07
           RENORM= 2250.     REMNOR=0.4481E-16 RATIO =0.6219E-01 TOLER =0.1000E-03  NOT CONVERGED
           RFMAX = 106.6     RMMAX = 354.8
           RTSMAL=0.1000E-02 RMSMAL=0.1000E-02
           RDT   =0.5817E+06 RDR   =0.5006E+07
           RATIOT=0.6219E-01 RATIOR= 0.000
           MAX UN= 25.45     IEQ=    89 NODE     45 DOF   1  Y-DISPL.F
           MIN UN=-5.288     IEQ=   149 NODE     75 DOF   1  Y-DISPL.F
           NO. OF CONTACT CONSTRAINT VIOLATIONS     0


ITER     3 RNORM = 293.3     RMNORM= 0.000
           RINORM=0.5817E+06 RIMNOR=0.5006E+07
           RENORM= 313.8     REMNOR=0.2757E-16 RATIO =0.2323E-01 TOLER =0.1000E-03  NOT CONVERGED
           RFMAX = 106.6     RMMAX = 354.8
           RTSMAL=0.1000E-02 RMSMAL=0.1000E-02
           RDT   =0.5817E+06 RDR   =0.5006E+07
           RATIOT=0.2323E-01 RATIOR= 0.000
           MAX UN= 10.98     IEQ=   103 NODE     52 DOF   1  Y-DISPL.F
           MIN UN=-.1535     IEQ=   129 NODE     65 DOF   1  Y-DISPL.F
           NO. OF CONTACT CONSTRAINT VIOLATIONS     0


ITER     4 RNORM = 293.3     RMNORM= 0.000
           RINORM=0.5817E+06 RIMNOR=0.5006E+07
           RENORM= 1.001     REMNOR=0.9913E-17 RATIO =0.1312E-02 TOLER =0.1000E-03  NOT CONVERGED
           RFMAX = 106.6     RMMAX = 354.8
           RTSMAL=0.1000E-02 RMSMAL=0.1000E-02
           RDT   =0.5817E+06 RDR   =0.5006E+07
           RATIOT=0.1312E-02 RATIOR= 0.000
           MAX UN=0.4266     IEQ=   115 NODE     58 DOF   1  Y-DISPL.F
           MIN UN=-.5562     IEQ=   129 NODE     65 DOF   1  Y-DISPL.F
           NO. OF CONTACT CONSTRAINT VIOLATIONS     0


ITER     5 RNORM = 293.3     RMNORM= 0.000
           RINORM=0.5817E+06 RIMNOR=0.5006E+07
           RENORM=0.2939E-14 REMNOR=0.9548E-17 RATIO =0.7108E-10 TOLER =0.1000E-03      CONVERGED !
           RFMAX = 106.6     RMMAX = 354.8
           RTSMAL=0.1000E-02 RMSMAL=0.1000E-02
           RDT   =0.5817E+06 RDR   =0.5006E+07
           RATIOT=0.7108E-10 RATIOR= 0.000
           MAX UN=0.2069E-07 IEQ=    15 NODE      8 DOF   1  Y-DISPL.F
           MIN UN=-.1135E-07 IEQ=    65 NODE     33 DOF   1  Y-DISPL.F
           NO. OF CONTACT CONSTRAINT VIOLATIONS     0
```

```
+-----------------------------------------------------------------------------------------------------------------------+
|                  PARATIEPLUS(TM)   NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*             |
|                                                                                                                       |
|                                                ParatiePlus                                                            |
|                                Exe Time :28 January 2022   16:22:47                                                   |
+-----------------------------------------------------------------------------------------------------------------------+
New Project
SOLUTION REACHED USING     5 ITERATIONS ON   80

P R I N T   O U T   F O R   T I M E   S T E P    4     ( AT TIME   4.000     ) SUBINCREMENT 00001/00001

PRINT OUT OF ACTIVE COMPONENTS (FIXED NODES ARE NOT PRINTED OUT)

          Y-DISPL.F        X-ROT. F
            02               04
    1   2.3371606E-02  -2.3057837E-03
    2   2.2910449E-02  -2.3057752E-03
    3   2.2449298E-02  -2.3057332E-03
    4   2.1988161E-02  -2.3056239E-03
    5   2.1527055E-02  -2.3054137E-03
    6   2.1065774E-02  -2.3050687E-03
    7   2.0604808E-02  -2.3045557E-03
    8   2.0143965E-02  -2.3038409E-03
    9   1.9680135E-02  -2.3028906E-03
   10   1.9219763E-02  -2.3016708E-03
   11   1.8759664E-02  -2.3001463E-03
   12   1.8299905E-02  -2.2982795E-03
   13   1.7840556E-02  -2.2960298E-03
   14   1.7381469E-02  -2.2933510E-03
   15   1.6923195E-02  -2.2901974E-03
   16   1.6465603E-02  -2.2865150E-03
   17   1.6008806E-02  -2.2822475E-03
   18   1.5552925E-02  -2.2773345E-03
   19   1.5098097E-02  -2.2717115E-03
   20   1.4644470E-02  -2.2653103E-03
   21   1.4193941E-02  -2.2580586E-03
   22   1.3742922E-02  -2.2498671E-03
   23   1.3293868E-02  -2.2406458E-03
   24   1.2846769E-02  -2.2302873E-03
   25   1.2401866E-02  -2.2186831E-03
   26   1.1959417E-02  -2.2057193E-03
   27   1.1519707E-02  -2.1912770E-03
   28   1.1083043E-02  -2.1752320E-03
   29   1.0649759E-02  -2.1574550E-03
   30   1.0220002E-02  -2.1378010E-03
   31   9.7945869E-03  -2.1161503E-03
   32   9.3737113E-03  -2.0924022E-03
   33   8.9577979E-03  -2.0665256E-03
   34   8.5472739E-03  -2.0385078E-03
   35   8.1425674E-03  -2.0083512E-03
   36   7.7441053E-03  -1.9760667E-03
   37   7.3523115E-03  -1.9416709E-03
   38   6.9674158E-03  -1.9051664E-03
   39   6.5902183E-03  -1.8666170E-03
   40   6.2209344E-03  -1.8260375E-03
   41   5.8598978E-03  -1.7834659E-03
   42   5.5076191E-03  -1.7390787E-03
   43   5.1643737E-03  -1.6931838E-03
   44   4.8304330E-03  -1.6460816E-03
   45   4.5060090E-03  -1.5980650E-03
   46   4.1912558E-03  -1.5494197E-03
   47   3.8861213E-03  -1.5003999E-03
   48   3.5909530E-03  -1.4513269E-03
   49   3.3055849E-03  -1.4024420E-03
   50   3.0299533E-03  -1.3540038E-03
   51   2.7639438E-03  -1.3062627E-03
   52   2.5073926E-03  -1.2594608E-03
   53   2.2600882E-03  -1.2138326E-03
   54   2.0217731E-03  -1.1696049E-03
   55   1.7920324E-03  -1.1269766E-03
   56   1.5707502E-03  -1.0862028E-03
   57   1.3574223E-03  -1.0474678E-03
   58   1.1516208E-03  -1.0109710E-03
   59   9.5287947E-04  -9.7689361E-04
   60   7.6069922E-04  -9.4538147E-04
   61   5.7455581E-04  -9.1653912E-04
   62   3.9390835E-04  -8.9042883E-04
   63   2.1812092E-04  -8.6706093E-04
   64   4.6819515E-05  -8.4644028E-04
   65  -1.2062680E-04  -8.2849727E-04
   66  -2.8474471E-04  -8.1313763E-04
   67  -4.4603889E-04  -8.0023734E-04
   68  -6.0498685E-04  -7.8964880E-04
   69  -7.6203424E-04  -7.8120121E-04
   70  -9.1759024E-04  -7.7470083E-04
   71  -1.0721001E-03  -7.6992991E-04
   72  -1.2257324E-03  -7.6665625E-04
   73  -1.3788381E-03  -7.6461908E-04
   74  -1.5316370E-03  -7.6353946E-04
```

```
75  -1.6842908E-03  -7.6311753E-04
76  -1.8362128E-03  -7.6303260E-04
```

```
+-----------------------------------------------------------------------------------------------------------------------+
|                  PARATIEPLUS(TM)   NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*             |
|                                                                                                                       |
|                                              ParatiePlus                                                              |
|                                    Exe Time :28 January 2022   16:22:47                                               |
+-----------------------------------------------------------------------------------------------------------------------+
New Project


S T R E S S   R E S U L T S   F O R   G R O U P   N O.   1

0_L                                                    :
ELEMENT TYPE    5 NO.OF ELEMENTS. IN THIS GROUP   76
C U R R E N T   T I M E   I S      4.0000 SUBINCREMENT 00001/00001

 HARDENING 2D SOIL ELEMENT

 ****** TOTAL STRESS FORMULATION *****

  EL *   FORCE     DISPL-Y  VERTICAL-P  HORIZON.-P     MAX-V-P     MAX-H-P          STATE   STIFFNESS Z-LEVEL      PORE       E FAC-
TOR    UFACTOR       Peq          Su_a        Su_p        Cohe_a      Cohe_p     LAYER                                ZFO         QS
QSL          ZD          ZPL          Kz
 ------------------------------------------------------------------------------------------------------------------------------------
------------------------------------------------------------------------------------------------------------------------------------
-----------------------------------------------
   1 D   0.000     -2.3372E-02   0.000       0.000       76.00       38.00          ACTIVE   0.000       339.0       0.000
1.000       1.000       0.000       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   2 D   0.000     -2.2910E-02   3.800       0.000       79.80       39.90          ACTIVE   0.000       338.8       0.000
1.000       1.000       0.000       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   3 D   0.000     -2.2449E-02   7.600       0.000       83.60       41.80          ACTIVE   0.000       338.6       0.000
1.000       1.000       0.000       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   4 D   0.000     -2.1988E-02   11.40       0.000       87.40       43.70          ACTIVE   0.000       338.4       0.000
1.000       1.000       0.000       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   5 D   0.000     -2.1527E-02   15.20       0.000       91.20       45.60          ACTIVE   0.000       338.2       0.000
1.000       1.000       0.000       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   6 D   0.000     -2.1066E-02   19.00       0.000       95.00       47.50          ACTIVE   0.000       338.0       0.000
1.000       1.000       0.000       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   7 D   0.000     -2.0605E-02   22.80       0.000       98.80       49.40          ACTIVE   0.000       337.8       0.000
1.000       1.000       0.000       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   8 D   0.000     -2.0144E-02   26.60       0.000       102.6       51.30          ACTIVE   0.000       337.6       0.000
1.000       1.000       0.000       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   9 D  6.5762E-02 -1.9680E-02   30.07       0.000       105.7       52.96          ACTIVE   0.000       337.4       0.3288
1.000       1.000      0.3288       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  10 D  0.2534     -1.9220E-02   32.93       0.000       107.5       53.85          ACTIVE   0.000       337.2       1.267
1.000       1.000       1.267       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  11 D  0.4765     -1.8760E-02   35.80      0.1776       109.3       54.74          ACTIVE   0.000       337.0       2.205
1.000       1.000       2.383       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  12 D  0.8485     -1.8300E-02   38.66       1.099       111.1       55.64          ACTIVE   0.000       336.8       3.143
1.000       1.000       4.242       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  13 D   1.220     -1.7841E-02   41.52       2.021       112.9       56.53          ACTIVE   0.000       336.6       4.081
1.000       1.000       6.102       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  14 D   1.593     -1.7381E-02   44.38       2.943       114.7       57.42          ACTIVE   0.000       336.4       5.020
1.000       1.000       7.963       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  15 D   1.964     -1.6923E-02   47.25       3.864       116.4       58.31          ACTIVE   0.000       336.2       5.958
1.000       1.000       9.822       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  16 D   2.336     -1.6466E-02   50.11       4.786       118.2       59.21          ACTIVE   0.000       336.0       6.896
1.000       1.000       11.68       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  17 D   2.708     -1.6009E-02   52.97       5.707       120.0       60.10          ACTIVE   0.000       335.8       7.834
1.000       1.000       13.54       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  18 D   3.080     -1.5553E-02   55.83       6.629       121.8       60.99          ACTIVE   0.000       335.6       8.772
1.000       1.000       15.40       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  19 D   3.452     -1.5098E-02   58.69       7.550       123.6       61.88          ACTIVE   0.000       335.4       9.710
1.000       1.000       17.26       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  20 D   3.824     -1.4644E-02   61.56       8.472       125.4       62.78          ACTIVE   0.000       335.2       10.65
1.000       1.000       19.12       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  21 D   5.840     -1.4194E-02   64.42       17.61       127.2       71.54          ACTIVE   0.000       335.0       11.59
1.000       1.000       29.20       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  22 D   6.329     -1.3743E-02   67.48       19.12       129.2       72.65          ACTIVE   0.000       334.8       12.53
```

1.000	1.000	31.64	0.000	0.000	10.00	10.00	Salt_1270_202756_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
23 D	6.817	-1.3294E-02	70.54	20.62	131.2	73.77	ACTIVE	0.000	334.6	13.46
1.000	1.000	34.09	0.000	0.000	10.00	10.00	Salt_1270_202756_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
24 D	7.305	-1.2847E-02	73.60	22.13	133.2	74.89	ACTIVE	0.000	334.4	14.40
1.000	1.000	36.53	0.000	0.000	10.00	10.00	Salt_1270_202756_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
25 D	7.794	-1.2402E-02	76.67	23.63	135.2	76.00	ACTIVE	0.000	334.2	15.34
1.000	1.000	38.97	0.000	0.000	10.00	10.00	Salt_1270_202756_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
26 D	8.282	-1.1959E-02	79.73	25.13	137.1	77.12	ACTIVE	0.000	334.0	16.28
1.000	1.000	41.41	0.000	0.000	10.00	10.00	Salt_1270_202756_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
27 D	8.770	-1.1520E-02	82.79	26.64	139.1	78.24	ACTIVE	0.000	333.8	17.22
1.000	1.000	43.85	0.000	0.000	10.00	10.00	Salt_1270_202756_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
28 D	9.259	-1.1083E-02	85.85	28.14	141.1	79.35	ACTIVE	0.000	333.6	18.15
1.000	1.000	46.29	0.000	0.000	10.00	10.00	Salt_1270_202756_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
29 D	9.747	-1.0650E-02	88.91	29.64	143.1	80.47	ACTIVE	0.000	333.4	19.09
1.000	1.000	48.73	0.000	0.000	10.00	10.00	Salt_1270_202756_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
30 D	10.24	-1.0220E-02	91.98	31.15	145.1	81.59	ACTIVE	0.000	333.2	20.03
1.000	1.000	51.18	0.000	0.000	10.00	10.00	Salt_1270_202756_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
31 D	10.72	-9.7946E-03	95.04	32.65	147.1	82.70	ACTIVE	0.000	333.0	20.97
1.000	1.000	53.62	0.000	0.000	10.00	10.00	Salt_1270_202756_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
32 D	11.21	-9.3737E-03	98.10	34.15	149.1	83.82	ACTIVE	0.000	332.8	21.91
1.000	1.000	56.06	0.000	0.000	10.00	10.00	Salt_1270_202756_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
33 D	11.70	-8.9578E-03	101.2	35.66	151.1	84.93	ACTIVE	0.000	332.6	22.85
1.000	1.000	58.50	0.000	0.000	10.00	10.00	Salt_1270_202756_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
34 D	12.19	-8.5473E-03	104.2	37.16	153.1	86.05	ACTIVE	0.000	332.4	23.78
1.000	1.000	60.94	0.000	0.000	10.00	10.00	Salt_1270_202756_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
35 D	12.68	-8.1426E-03	107.3	38.66	155.1	87.17	ACTIVE	0.000	332.2	24.72
1.000	1.000	63.38	0.000	0.000	10.00	10.00	Salt_1270_202756_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
36 D	13.17	-7.7441E-03	110.3	40.17	157.1	88.28	ACTIVE	0.000	332.0	25.66
1.000	1.000	65.83	0.000	0.000	10.00	10.00	Salt_1270_202756_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
37 D	13.65	-7.3523E-03	113.4	41.67	159.0	89.40	ACTIVE	0.000	331.8	26.60
1.000	1.000	68.27	0.000	0.000	10.00	10.00	Salt_1270_202756_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
38 D	14.14	-6.9674E-03	116.5	43.17	161.0	90.52	ACTIVE	0.000	331.6	27.54
1.000	1.000	70.71	0.000	0.000	10.00	10.00	Salt_1270_202756_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
39 D	14.63	-6.5902E-03	119.5	44.68	163.0	91.63	ACTIVE	0.000	331.4	28.47
1.000	1.000	73.15	0.000	0.000	10.00	10.00	Salt_1270_202756_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
40 D	15.12	-6.2209E-03	122.6	46.18	165.0	92.75	ACTIVE	0.000	331.2	29.41
1.000	1.000	75.59	0.000	0.000	10.00	10.00	Salt_1270_202756_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
41 D	6.071	-5.8599E-03	125.7	0.000	167.0	83.51	ACTIVE	0.000	331.0	30.35
1.000	1.000	30.35	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
42 D	6.449	-5.5076E-03	128.3	0.000	169.5	84.76	ACTIVE	0.000	330.8	32.25
1.000	1.000	32.25	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
43 D	6.828	-5.1644E-03	130.9	0.000	172.0	86.01	ACTIVE	0.000	330.6	34.14
1.000	1.000	34.14	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
44 D	7.207	-4.8304E-03	133.5	0.000	174.5	87.26	ACTIVE	0.000	330.4	36.03
1.000	1.000	36.03	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
45 D	7.586	-4.5060E-03	136.1	0.000	177.0	88.51	ACTIVE	0.000	330.2	37.93
1.000	1.000	37.93	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
46 D	7.964	-4.1913E-03	138.7	0.000	179.5	89.76	ACTIVE	0.000	330.0	39.82
1.000	1.000	39.82	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
47 D	8.343	-3.8861E-03	141.3	0.000	182.0	91.01	ACTIVE	0.000	329.8	41.72
1.000	1.000	41.72	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
48 D	8.722	-3.5910E-03	143.9	0.000	184.5	92.26	ACTIVE	0.000	329.6	43.61
1.000	1.000	43.61	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
49 D	9.324	-3.3056E-03	146.5	1.117	187.0	93.51	ACTIVE	0.000	329.4	45.50
1.000	1.000	46.62	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
50 D	9.954	-3.0300E-03	149.1	2.370	189.5	94.76	ACTIVE	0.000	329.2	47.40
1.000	1.000	49.77	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
51 D	10.58	-2.7639E-03	151.7	3.624	192.0	96.01	ACTIVE	0.000	329.0	49.29
1.000	1.000	52.92	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
52 D	11.21	-2.5074E-03	154.3	4.877	194.5	97.26	ACTIVE	0.000	328.8	51.19
1.000	1.000	56.06	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						

53 D	11.84	-2.2601E-03	156.9	6.131	197.0	98.51	ACTIVE	0.000	328.6	53.08
1.000	1.000	59.21	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
54 D	12.47	-2.0218E-03	159.5	7.385	199.5	99.76	ACTIVE	0.000	328.4	54.97
1.000	1.000	62.36	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
55 D	13.10	-1.7920E-03	162.1	8.639	202.0	101.0	ACTIVE	0.000	328.2	56.87
1.000	1.000	65.51	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
56 D	13.73	-1.5708E-03	164.8	9.892	204.5	102.3	ACTIVE	0.000	328.0	58.76
1.000	1.000	68.65	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
57 D	14.36	-1.3574E-03	167.4	11.15	207.0	103.5	ACTIVE	0.000	327.8	60.66
1.000	1.000	71.80	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
58 D	17.29	-1.1516E-03	170.0	23.88	209.5	104.8	UL-RL	6.1194E+04	327.6	62.55
1.000	1.000	86.43	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
59 D	20.35	-9.5288E-04	172.6	37.32	212.0	106.0	UL-RL	6.1194E+04	327.4	64.44
1.000	1.000	101.8	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
60 D	23.34	-7.6070E-04	175.2	50.37	214.5	107.3	UL-RL	6.1194E+04	327.2	66.34
1.000	1.000	116.7	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
61 D	26.26	-5.7456E-04	177.8	63.05	217.0	108.5	UL-RL	6.1194E+04	327.0	68.23
1.000	1.000	131.3	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
62 D	29.10	-3.9391E-04	180.4	75.39	219.5	109.8	UL-RL	6.1194E+04	326.8	70.12
1.000	1.000	145.5	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
63 D	31.89	-2.1812E-04	183.0	87.43	222.0	111.0	UL-RL	6.1194E+04	326.6	72.02
1.000	1.000	159.4	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
64 D	34.62	-4.6820E-05	185.6	99.20	224.5	112.2	UL-RL	6.1194E+04	326.4	73.91
1.000	1.000	173.1	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
65 D	37.15	1.2063E-04	188.2	110.0	227.0	113.9	UL-RL	6.1194E+04	326.2	75.81
1.000	1.000	185.8	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
66 D	38.58	2.8474E-04	190.8	115.2	229.5	118.2	UL-RL	6.1194E+04	326.0	77.70
1.000	1.000	192.9	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
67 D	40.00	4.4604E-04	193.4	120.4	232.0	122.4	UL-RL	6.1194E+04	325.8	79.59
1.000	1.000	200.0	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
68 D	41.41	6.0499E-04	196.0	125.6	234.5	126.6	UL-RL	6.1194E+04	325.6	81.49
1.000	1.000	207.1	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
69 D	42.81	7.6203E-04	198.6	130.7	237.0	130.7	UL-RL	6.1194E+04	325.4	83.38
1.000	1.000	214.1	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
70 D	44.08	9.1759E-04	201.2	135.1	239.5	135.1	V-C	2.0398E+04	325.2	85.28
1.000	1.000	220.4	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
71 D	45.34	1.0721E-03	203.8	139.5	242.0	139.5	V-C	2.0398E+04	325.0	87.17
1.000	1.000	226.7	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
72 D	46.60	1.2257E-03	206.5	143.9	244.5	143.9	V-C	2.0398E+04	324.8	89.06
1.000	1.000	233.0	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
73 D	47.86	1.3788E-03	209.1	148.3	247.0	148.3	V-C	2.0398E+04	324.6	90.96
1.000	1.000	239.3	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
74 D	49.11	1.5316E-03	211.7	152.7	249.5	152.7	V-C	2.0398E+04	324.4	92.85
1.000	1.000	245.6	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
75 D	50.36	1.6843E-03	214.3	157.1	252.0	157.1	V-C	2.0398E+04	324.2	94.75
1.000	1.000	251.8	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
76 D	25.81	1.8362E-03	216.9	161.4	254.5	161.4	V-C	2.0398E+04	324.0	96.63
1.000	1.000	258.1	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						

```
+-----------------------------------------------------------------------------------------------------------------------+
|                  PARATIEPLUS(TM)   NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*             |
|                                                                                                                       |
|                                            ParatiePlus                                                                |
|                                  Exe Time :28 January 2022   16:22:47                                                 |
+-----------------------------------------------------------------------------------------------------------------------+
New Project


S T R E S S   R E S U L T S   F O R   G R O U P   N O.   2

0_R                                                    :
ELEMENT TYPE    5 NO.OF ELEMENTS. IN THIS GROUP   76
C U R R E N T   T I M E   I S      4.0000 SUBINCREMENT 00001/00001

 HARDENING 2D SOIL ELEMENT

 ****** TOTAL STRESS FORMULATION *****

  EL *   FORCE     DISPL-Y  VERTICAL-P  HORIZON.-P     MAX-V-P     MAX-H-P          STATE   STIFFNESS Z-LEVEL      PORE       E FAC-
TOR    UFACTOR       Peq          Su_a        Su_p        Cohe_a      Cohe_p     LAYER                              ZFO         QS
QSL         ZD          ZPL          Kz
 ------------------------------------------------------------------------------------------------------------------------------
------------------------------------------------------------------------------------------------------------------------------
-----------------------------------------------
   1     0.000         --          --          --          --          --         REMOVED     --        339.0       0.000
1.000       1.000       0.000       0.000       0.000       0.000       0.000     not available
   2     0.000         --          --          --          --          --         REMOVED     --        338.8       0.000
1.000       1.000       0.000       0.000       0.000       0.000       0.000     not available
   3     0.000         --          --          --          --          --         REMOVED     --        338.6       0.000
1.000       1.000       0.000       0.000       0.000       0.000       0.000     not available
   4     0.000         --          --          --          --          --         REMOVED     --        338.4       0.000
1.000       1.000       0.000       0.000       0.000       0.000       0.000     not available
   5     0.000         --          --          --          --          --         REMOVED     --        338.2       0.000
1.000       1.000       0.000       0.000       0.000       0.000       0.000     not available
   6     0.000         --          --          --          --          --         REMOVED     --        338.0       0.000
1.000       1.000       0.000       0.000       0.000       0.000       0.000     not available
   7     0.000         --          --          --          --          --         REMOVED     --        337.8       0.000
1.000       1.000       0.000       0.000       0.000       0.000       0.000     not available
   8     0.000         --          --          --          --          --         REMOVED     --        337.6       0.000
1.000       1.000       0.000       0.000       0.000       0.000       0.000     not available
   9     0.000         --          --          --          --          --         REMOVED     --        337.4       0.000
1.000       1.000       0.000       0.000       0.000       0.000       0.000     not available
  10     0.000         --          --          --          --          --         REMOVED     --        337.2       0.000
1.000       1.000       0.000       0.000       0.000       0.000       0.000     not available
  11     0.000         --          --          --          --          --         REMOVED     --        337.0       0.000
1.000       1.000       0.000       0.000       0.000       0.000       0.000     not available
  12     0.000         --          --          --          --          --         REMOVED     --        336.8       0.000
1.000       1.000       0.000       0.000       0.000       0.000       0.000     not available
  13     0.000         --          --          --          --          --         REMOVED     --        336.6       0.000
1.000       1.000       0.000       0.000       0.000       0.000       0.000     not available
  14     0.000         --          --          --          --          --         REMOVED     --        336.4       0.000
1.000       1.000       0.000       0.000       0.000       0.000       0.000     not available
  15     0.000         --          --          --          --          --         REMOVED     --        336.2       0.000
1.000       1.000       0.000       0.000       0.000       0.000       0.000     not available
  16     0.000         --          --          --          --          --         REMOVED     --        336.0       0.000
1.000       1.000       0.000       0.000       0.000       0.000       0.000     not available
  17     0.000         --          --          --          --          --         REMOVED     --        335.8       0.000
1.000       1.000       0.000       0.000       0.000       0.000       0.000     not available
  18     0.000         --          --          --          --          --         REMOVED     --        335.6       0.000
1.000       1.000       0.000       0.000       0.000       0.000       0.000     not available
  19     0.000         --          --          --          --          --         REMOVED     --        335.4       0.000
1.000       1.000       0.000       0.000       0.000       0.000       0.000     not available
  20     0.000         --          --          --          --          --         REMOVED     --        335.2       0.000
1.000       1.000       0.000       0.000       0.000       0.000       0.000     not available
  21     0.000         --          --          --          --          --         REMOVED     --        335.0       0.000
1.000       1.000       0.000       0.000       0.000       0.000       0.000     not available
  22     0.000         --          --          --          --          --         REMOVED     --        334.8       0.000
1.000       1.000       0.000       0.000       0.000       0.000       0.000     not available
  23     0.000         --          --          --          --          --         REMOVED     --        334.6       0.000
1.000       1.000       0.000       0.000       0.000       0.000       0.000     not available
  24     0.000         --          --          --          --          --         REMOVED     --        334.4       0.000
1.000       1.000       0.000       0.000       0.000       0.000       0.000     not available
  25     0.000         --          --          --          --          --         REMOVED     --        334.2       0.000
1.000       1.000       0.000       0.000       0.000       0.000       0.000     not available
  26     0.000         --          --          --          --          --         REMOVED     --        334.0       0.000
1.000       1.000       0.000       0.000       0.000       0.000       0.000     not available
  27     0.000         --          --          --          --          --         REMOVED     --        333.8       0.000
1.000       1.000       0.000       0.000       0.000       0.000       0.000     not available
  28     0.000         --          --          --          --          --         REMOVED     --        333.6       0.000
1.000       1.000       0.000       0.000       0.000       0.000       0.000     not available
  29     0.000         --          --          --          --          --         REMOVED     --        333.4       0.000
1.000       1.000       0.000       0.000       0.000       0.000       0.000     not available
  30     0.000         --          --          --          --          --         REMOVED     --        333.2       0.000
1.000       1.000       0.000       0.000       0.000       0.000       0.000     not available
  31 D   6.925      9.7946E-03  8.0000E-03   34.62       146.9       82.53         PASSIVE   0.000       333.0       0.000
1.000       1.000       34.62       0.000       0.000       10.38       10.38     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  32 D   9.145      9.3737E-03   4.008       45.72       148.9       83.66         PASSIVE   0.000       332.8       0.000
```

```
1.000       1.000       45.72       0.000       0.000       10.38       10.38     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  33 D   11.37       8.9578E-03  8.008       56.83       150.9       84.79        PASSIVE   0.000       332.6       0.000
1.000       1.000       56.83       0.000       0.000       10.38       10.38     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  34 D   12.98       8.5473E-03  10.52       63.41       152.9       85.92        PASSIVE   0.000       332.4       1.488
1.000       1.000       64.90       0.000       0.000       10.38       10.38     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  35 D   13.96       8.1426E-03  11.46       65.27       154.9       87.05        PASSIVE   0.000       332.2       4.550
1.000       1.000       69.82       0.000       0.000       10.38       10.38     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  36 D   14.95       7.7441E-03  12.40       67.15       156.9       88.18        PASSIVE   0.000       332.0       7.612
1.000       1.000       74.77       0.000       0.000       10.38       10.38     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  37 D   15.95       7.3523E-03  13.33       69.07       158.9       89.31        PASSIVE   0.000       331.8       10.67
1.000       1.000       79.74       0.000       0.000       10.38       10.38     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  38 D   16.95       6.9674E-03  14.27       71.01       160.9       90.44        PASSIVE   0.000       331.6       13.74
1.000       1.000       84.75       0.000       0.000       10.38       10.38     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  39 D   17.96       6.5902E-03  15.21       72.98       162.9       91.56        PASSIVE   0.000       331.4       16.80
1.000       1.000       89.78       0.000       0.000       10.38       10.38     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  40 D   18.96       6.2209E-03  16.15       74.96       164.9       92.69        PASSIVE   0.000       331.2       19.86
1.000       1.000       94.82       0.000       0.000       10.38       10.38     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  41 D   35.45       5.8599E-03  17.09       154.3       166.9       154.3            V-C  1.5320E+04   331.0       22.92
1.000       1.000       177.2       0.000       0.000       51.92       51.92     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  42 D   35.09       5.5076E-03  19.48       150.4       169.4       150.4            V-C  1.5320E+04   330.8       25.03
1.000       1.000       175.5       0.000       0.000       51.92       51.92     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  43 D   34.76       5.1644E-03  21.88       146.7       171.9       146.7            V-C  1.5320E+04   330.6       27.13
1.000       1.000       173.8       0.000       0.000       51.92       51.92     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  44 D   34.45       4.8304E-03  24.27       143.0       174.4       143.0            V-C  1.5320E+04   330.4       29.24
1.000       1.000       172.2       0.000       0.000       51.92       51.92     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  45 D   34.16       4.5060E-03  26.67       139.5       176.9       139.5            V-C  1.5320E+04   330.2       31.35
1.000       1.000       170.8       0.000       0.000       51.92       51.92     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  46 D   33.90       4.1913E-03  29.06       136.1       179.5       136.1            V-C  1.5320E+04   330.0       33.45
1.000       1.000       169.5       0.000       0.000       51.92       51.92     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  47 D   33.67       3.8861E-03  31.45       132.8       182.0       132.8            V-C  1.5320E+04   329.8       35.56
1.000       1.000       168.3       0.000       0.000       51.92       51.92     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  48 D   33.47       3.5910E-03  33.85       129.7       184.5       129.7            V-C  1.5320E+04   329.6       37.66
1.000       1.000       167.3       0.000       0.000       51.92       51.92     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  49 D   33.29       3.3056E-03  36.24       126.7       187.0       126.7            V-C  1.5320E+04   329.4       39.77
1.000       1.000       166.4       0.000       0.000       51.92       51.92     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  50 D   33.14       3.0300E-03  38.64       123.8       189.5       123.8            V-C  1.5320E+04   329.2       41.88
1.000       1.000       165.7       0.000       0.000       51.92       51.92     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  51 D   33.02       2.7639E-03  41.03       121.1       192.0       121.1            V-C  1.5320E+04   329.0       43.98
1.000       1.000       165.1       0.000       0.000       51.92       51.92     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  52 D   32.93       2.5074E-03  43.42       118.5       194.5       118.5            V-C  1.5320E+04   328.8       46.09
1.000       1.000       164.6       0.000       0.000       51.92       51.92     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  53 D   32.86       2.2601E-03  45.82       116.1       197.0       116.1            V-C  1.5320E+04   328.6       48.20
1.000       1.000       164.3       0.000       0.000       51.92       51.92     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  54 D   32.82       2.0218E-03  48.21       113.8       199.5       113.8            V-C  1.5320E+04   328.4       50.30
1.000       1.000       164.1       0.000       0.000       51.92       51.92     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  55 D   32.81       1.7920E-03  50.61       111.6       202.0       111.6            V-C  1.5320E+04   328.2       52.41
1.000       1.000       164.0       0.000       0.000       51.92       51.92     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  56 D   32.82       1.5708E-03  53.00       109.6       204.5       109.6            V-C  1.5320E+04   328.0       54.52
1.000       1.000       164.1       0.000       0.000       51.92       51.92     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  57 D   32.85       1.3574E-03  55.39       107.6       207.0       107.6            V-C  1.5320E+04   327.8       56.62
1.000       1.000       164.2       0.000       0.000       51.92       51.92     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  58 D   32.91       1.1516E-03  57.79       105.8       209.5       105.8            V-C  1.5320E+04   327.6       58.73
1.000       1.000       164.5       0.000       0.000       51.92       51.92     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  59 D   32.22       9.5288E-04  60.18       100.3       212.0       106.0          UL-RL  4.5960E+04   327.4       60.83
1.000       1.000       161.1       0.000       0.000       51.92       51.92     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  60 D   31.16       7.6070E-04  62.58       92.88       214.5       107.2          UL-RL  4.5960E+04   327.2       62.94
1.000       1.000       155.8       0.000       0.000       51.92       51.92     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  61 D   30.16       5.7456E-04  64.97       85.76       217.0       108.5          UL-RL  4.5960E+04   327.0       65.05
1.000       1.000       150.8       0.000       0.000       51.92       51.92     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  62 D   29.21       3.9391E-04  67.36       78.89       219.5       109.7          UL-RL  4.5960E+04   326.8       67.15
1.000       1.000       146.0       0.000       0.000       51.92       51.92     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
```

63 D	28.30	2.1812E-04	69.76	72.24	222.0	111.0	UL-RL	4.5960E+04	326.6	69.26
1.000	1.000	141.5	0.000	0.000	51.92	51.92	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
64 D	27.43	4.6820E-05	72.15	65.78	224.5	112.2	UL-RL	4.5960E+04	326.4	71.37
1.000	1.000	137.1	0.000	0.000	51.92	51.92	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
65 D	26.59	-1.2063E-04	74.55	59.49	227.0	113.5	UL-RL	4.5960E+04	326.2	73.47
1.000	1.000	133.0	0.000	0.000	51.92	51.92	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
66 D	25.78	-2.8474E-04	76.94	53.35	229.5	114.7	UL-RL	4.5960E+04	326.0	75.58
1.000	1.000	128.9	0.000	0.000	51.92	51.92	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
67 D	25.00	-4.4604E-04	79.33	47.33	232.0	116.0	UL-RL	4.5960E+04	325.8	77.68
1.000	1.000	125.0	0.000	0.000	51.92	51.92	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
68 D	24.24	-6.0499E-04	81.73	41.41	234.5	117.2	UL-RL	4.5960E+04	325.6	79.79
1.000	1.000	121.2	0.000	0.000	51.92	51.92	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
69 D	23.49	-7.6203E-04	84.12	35.57	237.0	118.5	UL-RL	4.5960E+04	325.4	81.90
1.000	1.000	117.5	0.000	0.000	51.92	51.92	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
70 D	22.76	-9.1759E-04	86.52	29.79	239.5	119.7	UL-RL	4.5960E+04	325.2	84.00
1.000	1.000	113.8	0.000	0.000	51.92	51.92	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
71 D	22.03	-1.0721E-03	88.91	24.06	242.0	121.0	UL-RL	4.5960E+04	325.0	86.11
1.000	1.000	110.2	0.000	0.000	51.92	51.92	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
72 D	21.32	-1.2257E-03	91.30	18.37	244.5	122.2	UL-RL	4.5960E+04	324.8	88.22
1.000	1.000	106.6	0.000	0.000	51.92	51.92	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
73 D	20.60	-1.3788E-03	93.70	12.69	247.0	123.5	UL-RL	4.5960E+04	324.6	90.32
1.000	1.000	103.0	0.000	0.000	51.92	51.92	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
74 D	19.89	-1.5316E-03	96.09	7.022	249.5	124.7	UL-RL	4.5960E+04	324.4	92.43
1.000	1.000	99.45	0.000	0.000	51.92	51.92	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
75 D	19.18	-1.6843E-03	98.49	1.356	252.0	126.0	UL-RL	4.5960E+04	324.2	94.53
1.000	1.000	95.89	0.000	0.000	51.92	51.92	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
76 D	9.663	-1.8362E-03	100.9	0.000	254.5	127.2	ACTIVE	0.000	324.0	96.63
1.000	1.000	96.63	0.000	0.000	51.92	51.92	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						

New Project

S T R E S S   R E S U L T S   F O R   G R O U P   N O.   3

Pali1500_253215   :
ELEMENT TYPE   2 NO.OF ELEMENTS. IN THIS GROUP   75
C U R R E N T   T I M E   I S   4.0000 SUBINCREMENT 00001/00001

 WALL2D ELEMENT

EL	TA	TB	MA	MB
1	1.5838	-1.5838	1.50639E-10	0.31676
2	4.7514	-4.7514	-0.31676	1.2670
3	7.9190	-7.9190	-1.2670	2.8508
4	11.087	-11.087	-2.8508	5.0681
5	14.255	-14.255	-5.0681	7.9205
6	17.423	-17.423	-7.9205	11.405
7	20.591	-20.591	-11.405	15.523
8	23.758	-23.758	-15.523	20.275
9	26.992	-26.992	-20.275	25.673
10	30.413	-30.413	-25.673	31.756
11	34.057	-34.057	-31.756	38.567
12	38.073	-38.073	-38.567	46.182
13	42.462	-42.462	-46.182	54.678
14	47.222	-47.222	-54.678	64.123
15	52.355	-52.355	-64.123	74.594
16	57.858	-57.858	-74.594	86.166
17	63.734	-63.734	-86.166	98.912
18	69.982	-69.982	-98.912	112.91
19	76.602	-76.602	-112.91	128.23
20	83.594	-83.594	-128.23	144.95
21	92.602	-92.602	-144.95	163.48
22	102.10	-102.10	-163.48	183.90
23	112.08	-112.08	-183.90	206.31
24	122.56	-122.56	-206.31	230.83
25	133.52	-133.52	-230.83	257.53
26	144.97	-144.97	-257.53	286.52
27	156.91	-156.91	-286.52	317.90
28	169.33	-169.33	-317.90	351.77
29	182.25	-182.25	-351.77	388.24
30	195.62	-195.62	-388.24	427.36
31	199.42	-199.42	-427.36	467.25
32	201.49	-201.49	-467.25	507.54
33	201.82	-201.82	-507.54	547.91
34	201.03	-201.03	-547.91	588.11
35	199.74	-199.74	-588.11	628.06
36	197.96	-197.96	-628.06	667.66
37	195.66	-195.66	-667.66	706.81
38	192.85	-192.85	-706.81	745.38
39	189.53	-189.53	-745.38	783.28
40	185.68	-185.68	-783.28	820.42
41	156.31	-156.31	-820.42	851.68
42	127.66	-127.66	-851.68	877.21
43	99.735	-99.735	-877.21	897.16
44	72.496	-72.496	-897.16	911.66
45	45.920	-45.920	-911.66	920.84
46	19.983	-19.983	-920.84	924.84
47	-5.3438	5.3438	-924.84	923.77
48	-30.087	30.087	-923.77	917.76
49	-54.052	54.052	-917.76	906.95
50	-77.239	77.239	-906.95	891.50
51	-99.676	99.676	-891.50	871.56
52	-121.39	121.39	-871.56	847.29
53	-142.41	142.41	-847.29	818.80
54	-162.76	162.76	-818.80	786.24
55	-182.46	182.46	-786.24	749.74
56	-201.55	201.55	-749.74	709.43
57	-220.04	220.04	-709.43	665.43
58	-235.66	235.66	-665.43	618.30
59	-247.52	247.52	-618.30	568.79
60	-255.34	255.34	-568.79	517.72
61	-259.25	259.25	-517.72	465.87
62	-259.36	259.36	-465.87	413.97
63	-255.77	255.77	-413.97	362.82
64	-248.57	248.57	-362.82	313.11
65	-238.01	238.01	-313.11	265.50
66	-225.21	225.21	-265.50	220.46
67	-210.21	210.21	-220.46	178.42
68	-193.04	193.04	-178.42	139.81
69	-173.72	173.72	-139.81	105.06
70	-152.40	152.40	-105.06	74.570

71	-129.09	129.09	-74.570	48.751
72	-103.81	103.81	-48.751	27.990
73	-76.551	76.551	-27.990	12.680
74	-47.330	47.330	-12.680	3.2141
75	-16.143	16.143	-3.2141	1.52394E-11

```
+-------------------------------------------------------------------------------------------------------------------------+
|                   PARATIEPLUS(TM)   NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*              |
|                                                                                                                         |
|                                                ParatiePlus                                                              |
|                                 Exe Time :28 January 2022   16:22:47                                                    |
+-------------------------------------------------------------------------------------------------------------------------+


     F I N A L    I N C R E M E N T A L    A N A L Y S I S

                    S U M M A R Y

     STEP                                    NO. OF ITERATIONS

        1           CONVERGENCE :YES                        2
        2           CONVERGENCE :YES                        2
        3           CONVERGENCE :YES                        6
        4           CONVERGENCE :YES                        5


 END OF PROCESS FOR PROBLEM
New Project
NONLINEAR SOLUTION CPU TIME ....    0.06 [sec]
DATABASE  CREATION CPU TIME.....    0.18 [sec]
```

8.3. Design Assumption : SLE (Rara/Frequente/Quasi Permanente) - File di Paratie - File di input (.d)

```
* PARATIE ANALYSIS FOR DESIGN SECTION:Base Design Section USING ASSUMPTION: SLE (Rara/Frequente/Quasi Permanente)
 * Time:venerdì 28 gennaio 2022 16:22:48
 * 1: Defining general settings
 UNIT  m kN
 TITLE New Project
 DELTA 0.2
 option param itemax 80
 option control contact lagrange

 option control hinges 0 0.0001 0.001

 * 2: Defining wall(s)
 WALL LeftWall_36 10 324 339 1

 * 3: Defining surfaces for wall(s)
 SOIL 0_L LeftWall_36 324 339 1 0
 SOIL 0_R LeftWall_36 324 339 2 180

 * 4: Defining soil layers
 *
 * Soil Profile (Aate_364268_2050_L_0)
 *
 LDATA Aate_364268_2050_L_0 343 LeftWall_36
 ATREST 0.5 0.5 1
 WEIGHT 19 9 10
 PERMEABILITY 1E-05
 RESISTANCE 10 31 0 0 0
 TZDATA  LINEAR 10000 0 25 0.5 0
 KSCALE  0 0
 YOUNG 40000 1.2E+05
 ENDL
 *
 * Soil Profile (Salt_1270_202756_L_0)
 *
 LDATA Salt_1270_202756_L_0 335 LeftWall_36
 ATREST 0.562 0.5 1
 WEIGHT 20 10 10
 PERMEABILITY 1E-05
 RESISTANCE 10 26 0 0 0
 TZDATA  LINEAR 10000 0 25 0.5 0
 KSCALE  0 0
 YOUNG 2E+05 6E+05
 ENDL
 *
 * Soil Profile (Pa_244788_244789_L_0)
 *
 LDATA Pa_244788_244789_L_0 331 LeftWall_36
 ATREST 0.5 0.5 1
 WEIGHT 22.5 12.5 10
 PERMEABILITY 0.0001
 RESISTANCE 50 27 0 0 0
 TZDATA  LINEAR 20000 0 30 0.5 0
 KSCALE  0 0
 YOUNG 1E+05 3E+05
 ENDL

 * 5: Defining structural materials
 * Steel material: 114 Name=Fe360 E=206000200 kPa
 MATERIAL Fe360_114 2.06E+08
 * Concrete material: 112 Name=C32/40 E=33345800 kPa
 MATERIAL C3240_112 3.3346E+07

 * 6: Defining structural elements
 * 6.1: Beams and combined Wall Elements
 ** rev 2021 and later
 BEAM Pali1500_253215 LeftWall_36 324 339 C3240_112 1.1067 0.80325 0.11296 20.081 00 00 0


 * 6.2: Supports




 * 6.3: Strips

 * 7: Defining Steps
 STEP AnteOperam_1747
 CHANGE Aate_364268_2050_L_0 U-FRICT=31 LeftWall_36
 CHANGE Aate_364268_2050_L_0 D-FRICT=31 LeftWall_36
 CHANGE Aate_364268_2050_L_0 U-KA=0.303 LeftWall_36
 CHANGE Aate_364268_2050_L_0 U-KP=3.803 LeftWall_36
 CHANGE Aate_364268_2050_L_0 D-KA=0.34 LeftWall_36
```

```
CHANGE Aate_364268_2050_L_0 D-KP=4.555 LeftWall_36
CHANGE Salt_1270_202756_L_0 U-FRICT=26 LeftWall_36
CHANGE Salt_1270_202756_L_0 D-FRICT=26 LeftWall_36
CHANGE Salt_1270_202756_L_0 U-KA=0.368 LeftWall_36
CHANGE Salt_1270_202756_L_0 U-KP=2.867 LeftWall_36
CHANGE Salt_1270_202756_L_0 D-KA=0.418 LeftWall_36
CHANGE Salt_1270_202756_L_0 D-KP=3.404 LeftWall_36
CHANGE Pa_244788_244789_L_0 U-FRICT=27 LeftWall_36
CHANGE Pa_244788_244789_L_0 D-FRICT=27 LeftWall_36
CHANGE Pa_244788_244789_L_0 U-KA=0.355 LeftWall_36
CHANGE Pa_244788_244789_L_0 U-KP=2.998 LeftWall_36
CHANGE Pa_244788_244789_L_0 D-KA=0.401 LeftWall_36
CHANGE Pa_244788_244789_L_0 D-KP=3.601 LeftWall_36
CHANGE Aate_364268_2050_L_0 U-COHE=10 LeftWall_36
CHANGE Aate_364268_2050_L_0 U-ADHES=0 LeftWall_36
CHANGE Aate_364268_2050_L_0 D-COHE=10 LeftWall_36
CHANGE Aate_364268_2050_L_0 D-ADHES=0 LeftWall_36
CHANGE Salt_1270_202756_L_0 U-COHE=10 LeftWall_36
CHANGE Salt_1270_202756_L_0 U-ADHES=0 LeftWall_36
CHANGE Salt_1270_202756_L_0 D-COHE=10 LeftWall_36
CHANGE Salt_1270_202756_L_0 D-ADHES=0 LeftWall_36
CHANGE Pa_244788_244789_L_0 U-COHE=50 LeftWall_36
CHANGE Pa_244788_244789_L_0 U-ADHES=0 LeftWall_36
CHANGE Pa_244788_244789_L_0 D-COHE=50 LeftWall_36
CHANGE Pa_244788_244789_L_0 D-ADHES=0 LeftWall_36
SETWALL LeftWall_36
GEOM 343 343
SURCHARGE 0 0 0 0
WATER 337.47 -0.066047 324 0 0
ENDSTEP

STEP Pre-scavo+Pali_244791
CHANGE Aate_364268_2050_L_0 U-KA=0.322 LeftWall_36
CHANGE Aate_364268_2050_L_0 U-KP=4.555 LeftWall_36
CHANGE Aate_364268_2050_L_0 D-KA=0.32 LeftWall_36
CHANGE Salt_1270_202756_L_0 U-KA=0.491 LeftWall_36
CHANGE Salt_1270_202756_L_0 U-KP=3.404 LeftWall_36
CHANGE Salt_1270_202756_L_0 D-KA=0.39 LeftWall_36
CHANGE Pa_244788_244789_L_0 U-KA=0.481 LeftWall_36
CHANGE Pa_244788_244789_L_0 U-KP=3.601 LeftWall_36
CHANGE Pa_244788_244789_L_0 D-KA=0.376 LeftWall_36
SETWALL LeftWall_36
GEOM 339 339
SURCHARGE 0 0 0 0
WATER 337.47 -0.039326 324 0 0
ADD Pali1500_253215
ENDSTEP

STEP Scavofinale_252903
SETWALL LeftWall_36
GEOM 339 333
SURCHARGE 0 0 0 0
WATER 337.47 4.9732 324 0 0
ENDSTEP

STEP Sisma_284297
SETWALL LeftWall_36
GEOM 339 333
SURCHARGE 0 0 0 0
WATER 337.47 4.9732 324 0 0
ENDSTEP
```

8.4. Design Assumption : SLE (Rara/Frequente/Quasi Permanente) - File di Paratie - File di output (.out)

```
+-------------------------------------------------------------------------------------------------------------------------+
|                   PARATIEPLUS(TM)   NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*              |
|                                                                                                                         |
|                                                ParatiePlus                                                              |
|                                  Exe Time :28 January 2022   16:22:48                                                   |
+-------------------------------------------------------------------------------------------------------------------------+

                  ********************************************************
                  *                                                      *
                  *  PARATIE PLUS Non-Linear Spring Engine               *
                  *                                                      *
                  *          AN ELASTOPLASTIC FINITE ELEMENT PROGRAM     *
                  *          FOR FLEXIBLE EARTH-RETAINING STRUCTURES     *
                  *                                                      *
                  *          Written by CEAS s.r.l. (ITALY)              *
                  *          with the scientific supervision of          *
                  *          Roberto Nova - full professor SOIL MECHANICS*
                  *          at Politecnico di Milano (ITALY)            *
                  *                                                      *
                  ********************************************************
                  *                                                      *
```

```
                *  RELEASE   2022.0.0   *Build date:Sep 13, 2021*        *
                *                                                        *
                *                                                        *
                *  CEAS S.R.L  VIALE   GIUSTINIANO 10                    *
                *              20129   M I L A N O  (ITALIA)             *
                *  TEL.        +39 02 2020221                            *
                *                                                        *
                *  email       bruno.becci@ceas.it                       *
                *  Web Page    www.ceas.it     www.paratieplus.com       *
                **********************************************************



 JOB : ParatiePlus
 STARTING
ACCEPTED   &lt;FILE,GENW                                                                  &gt;
ACCEPTED   &lt;FILE,PLOTTER,BINARY                                                        &gt;
ACCEPTED   &lt;SOLVE TOTAL_STRESS                                                         &gt;
ACCEPTED   &lt;PARAM ITEMAX 80                                                            &gt;
ACCEPTED   &lt;CONTROL CONTACT LAGRANGE                                                   &gt;
ACCEPTED   &lt;CONTROL HINGES 0 0.0001 0.001                                              &gt;



                **********************************************************
                *                                                        *
                *  WARNING : PORE PRESSURES ARE AUTOMATICALLY COMPUTED   *
                *    BY THE PROGRAM.                                     *
                **********************************************************

PRELIMINARY OPERATIONS CPU TIME     0.01 [sec]
```

```
+-----------------------------------------------------------------------------------------------------------------------+
|                   PARATIEPLUS(TM)   NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*             |
|                                                                                                                       |
|                                                ParatiePlus                                                            |
|                                 Exe Time :28 January 2022   16:22:48                                                  |
+-----------------------------------------------------------------------------------------------------------------------+


INPUT FILE HAS BEEN GENERATED BY WALGEN PROGRAM


New Project


NO. OF NODAL POINTS (NUMNP) ...................   76
NO. OF COORDINATES  (NCOORD)...................    2
NO. OF NODE DOFS    (NDOF).....................    2
NO. OF EQUATIONS    (NEQ)...................... 152
NO. OF CONSTRAINTS CARDS (NVINC)...............    0
NO. OF ELEMENT GROUPS (NEG)....................    3
NO. OF SOLUTION STEPS (NSTE)...................    4
NO. OF ELEMENT SETS ATTACHED TO SLAVE NODES ...    0
NO. OF RECORD FROM WALGEN ..................... 103
NO. OF LONG NAMES (LASTNAME) ..................   17
LENGTH UNIT CHOICE ............................    3 (M   )
FORCE  UNIT CHOICE ............................    3 (KN  )
MAX PORE PRESSURE TABLE LENGTH.................    1
MAX INELASTIC DISPL. TABLE LENGTH..............    0
NO. OF ELEMENT GROUPS REQUIRING ADD. SLIP DOF .    0


IDOFA (01) =  2  Y-DISPL.F
IDOFA (02) =  4   X-ROT. F

 RELEVANT ITEMS UNITS

 STRESSES                  kPa
 Y-DISPLACEMENTS           m
 ROTATIONS                 RADIANS
 BEAM AND SLAB MOMENTS     kN*m/m
 BEAM SHEAR FORCES         kN/m
 ANCHOR FORCES             kN/m
 AXIAL FORCES IN TRUSSES   kN/m
 AXIAL FORCES SPRINGS      kN/m
 Y-REACTIONS               kN/m
 X-MOMENT REACTIONS        kN*m/m
 ETC.
```

```
+-------------------------------------------------------------------------------------------------------------------------+
|                   PARATIEPLUS(TM)   NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*              |
|                                                                                                                         |
|                                              ParatiePlus                                                                |
|                                  Exe Time :28 January 2022   16:22:48                                                   |
+-------------------------------------------------------------------------------------------------------------------------+
                   P R E P R O C E S S O R     D A T A

                   N O.  O F   C O M M A N D S    103

    1 : UNIT  m kN
    2 : TITLE New Project
    3 : DELTA 0.2
    4 : option param itemax 80
    5 : option control contact lagrange
    6 : option control hinges 0 0.0001 0.001
    7 : WALL LeftWall_36 10 324 339 1
    8 : SOIL 0_L LeftWall_36 324 339 1 0
    9 : SOIL 0_R LeftWall_36 324 339 2 180
   10 : LDATA Aate_364268_2050_L_0 343 LeftWall_36
   11 : ATREST 0.5 0.5 1
   12 : WEIGHT 19 9 10
   13 : PERMEABILITY 1E-05
   14 : RESISTANCE 10 31 0 0 0
   15 : TZDATA  LINEAR 10000 0 25 0.5 0
   16 : KSCALE  0 0
   17 : YOUNG 40000 1.2E+05
   18 : ENDL
   19 : LDATA Salt_1270_202756_L_0 335 LeftWall_36
   20 : ATREST 0.562 0.5 1
   21 : WEIGHT 20 10 10
   22 : PERMEABILITY 1E-05
   23 : RESISTANCE 10 26 0 0 0
   24 : TZDATA  LINEAR 10000 0 25 0.5 0
   25 : KSCALE  0 0
   26 : YOUNG 2E+05 6E+05
   27 : ENDL
   28 : LDATA Pa_244788_244789_L_0 331 LeftWall_36
   29 : ATREST 0.5 0.5 1
   30 : WEIGHT 22.5 12.5 10
   31 : PERMEABILITY 0.0001
   32 : RESISTANCE 50 27 0 0 0
   33 : TZDATA  LINEAR 20000 0 30 0.5 0
   34 : KSCALE  0 0
   35 : YOUNG 1E+05 3E+05
   36 : ENDL
   37 : MATERIAL Fe360_114 2.06E+08
   38 : MATERIAL C3240_112 3.3346E+07
   39 : BEAM Pali1500_253215 LeftWall_36 324 339 C3240_112 1.1067 0.80325 0.11296 20.081 00 00 0
   40 : STEP AnteOperam_1747
   41 : CHANGE Aate_364268_2050_L_0 U-FRICT=31 LeftWall_36
   42 : CHANGE Aate_364268_2050_L_0 D-FRICT=31 LeftWall_36
   43 : CHANGE Aate_364268_2050_L_0 U-KA=0.303 LeftWall_36
   44 : CHANGE Aate_364268_2050_L_0 U-KP=3.803 LeftWall_36
   45 : CHANGE Aate_364268_2050_L_0 D-KA=0.34 LeftWall_36
   46 : CHANGE Aate_364268_2050_L_0 D-KP=4.555 LeftWall_36
   47 : CHANGE Salt_1270_202756_L_0 U-FRICT=26 LeftWall_36
   48 : CHANGE Salt_1270_202756_L_0 D-FRICT=26 LeftWall_36
   49 : CHANGE Salt_1270_202756_L_0 U-KA=0.368 LeftWall_36
   50 : CHANGE Salt_1270_202756_L_0 U-KP=2.867 LeftWall_36
   51 : CHANGE Salt_1270_202756_L_0 D-KA=0.418 LeftWall_36
   52 : CHANGE Salt_1270_202756_L_0 D-KP=3.404 LeftWall_36
   53 : CHANGE Pa_244788_244789_L_0 U-FRICT=27 LeftWall_36
   54 : CHANGE Pa_244788_244789_L_0 D-FRICT=27 LeftWall_36
   55 : CHANGE Pa_244788_244789_L_0 U-KA=0.355 LeftWall_36
   56 : CHANGE Pa_244788_244789_L_0 U-KP=2.998 LeftWall_36
   57 : CHANGE Pa_244788_244789_L_0 D-KA=0.401 LeftWall_36
   58 : CHANGE Pa_244788_244789_L_0 D-KP=3.601 LeftWall_36
   59 : CHANGE Aate_364268_2050_L_0 U-COHE=10 LeftWall_36
   60 : CHANGE Aate_364268_2050_L_0 U-ADHES=0 LeftWall_36
   61 : CHANGE Aate_364268_2050_L_0 D-COHE=10 LeftWall_36
   62 : CHANGE Aate_364268_2050_L_0 D-ADHES=0 LeftWall_36
   63 : CHANGE Salt_1270_202756_L_0 U-COHE=10 LeftWall_36
   64 : CHANGE Salt_1270_202756_L_0 U-ADHES=0 LeftWall_36
   65 : CHANGE Salt_1270_202756_L_0 D-COHE=10 LeftWall_36
   66 : CHANGE Salt_1270_202756_L_0 D-ADHES=0 LeftWall_36
   67 : CHANGE Pa_244788_244789_L_0 U-COHE=50 LeftWall_36
   68 : CHANGE Pa_244788_244789_L_0 U-ADHES=0 LeftWall_36
   69 : CHANGE Pa_244788_244789_L_0 D-COHE=50 LeftWall_36
   70 : CHANGE Pa_244788_244789_L_0 D-ADHES=0 LeftWall_36
   71 : SETWALL LeftWall_36
   72 : GEOM 343 343
   73 : SURCHARGE 0 0 0 0
   74 : WATER 337.47 -0.066047 324 0 0
   75 : ENDSTEP
   76 : STEP Pre-scavo+Pali_244791
   77 : CHANGE Aate_364268_2050_L_0 U-KA=0.322 LeftWall_36
   78 : CHANGE Aate_364268_2050_L_0 U-KP=4.555 LeftWall_36
   79 : CHANGE Aate_364268_2050_L_0 D-KA=0.32 LeftWall_36
```

```
 80 : CHANGE Salt_1270_202756_L_0 U-KA=0.491 LeftWall_36
 81 : CHANGE Salt_1270_202756_L_0 U-KP=3.404 LeftWall_36
 82 : CHANGE Salt_1270_202756_L_0 D-KA=0.39 LeftWall_36
 83 : CHANGE Pa_244788_244789_L_0 U-KA=0.481 LeftWall_36
 84 : CHANGE Pa_244788_244789_L_0 U-KP=3.601 LeftWall_36
 85 : CHANGE Pa_244788_244789_L_0 D-KA=0.376 LeftWall_36
 86 : SETWALL LeftWall_36
 87 : GEOM 339 339
 88 : SURCHARGE 0 0 0 0
 89 : WATER 337.47 -0.039326 324 0 0
 90 : ADD Pali1500_253215
 91 : ENDSTEP
 92 : STEP Scavofinale_252903
 93 : SETWALL LeftWall_36
 94 : GEOM 339 333
 95 : SURCHARGE 0 0 0 0
 96 : WATER 337.47 4.9732 324 0 0
 97 : ENDSTEP
 98 : STEP Sisma_284297
 99 : SETWALL LeftWall_36
100 : GEOM 339 333
101 : SURCHARGE 0 0 0 0
102 : WATER 337.47 4.9732 324 0 0
103 : ENDSTEP
```

N O D A L P O I N T D A T A

NODE	Y-COORD	Z-COORD	/ NODE	Y-COORD	Z-COORD	/ NODE	Y-COORD	Z-COORD	/ NODE	Y-COORD	Z-COORD	/
1	10.000	339.00	/ 2	10.000	338.80	/ 3	10.000	338.60	/ 4	10.000	338.40	/
5	10.000	338.20	/ 6	10.000	338.00	/ 7	10.000	337.80	/ 8	10.000	337.60	/
9	10.000	337.40	/ 10	10.000	337.20	/ 11	10.000	337.00	/ 12	10.000	336.80	/
13	10.000	336.60	/ 14	10.000	336.40	/ 15	10.000	336.20	/ 16	10.000	336.00	/
17	10.000	335.80	/ 18	10.000	335.60	/ 19	10.000	335.40	/ 20	10.000	335.20	/
21	10.000	335.00	/ 22	10.000	334.80	/ 23	10.000	334.60	/ 24	10.000	334.40	/
25	10.000	334.20	/ 26	10.000	334.00	/ 27	10.000	333.80	/ 28	10.000	333.60	/
29	10.000	333.40	/ 30	10.000	333.20	/ 31	10.000	333.00	/ 32	10.000	332.80	/
33	10.000	332.60	/ 34	10.000	332.40	/ 35	10.000	332.20	/ 36	10.000	332.00	/
37	10.000	331.80	/ 38	10.000	331.60	/ 39	10.000	331.40	/ 40	10.000	331.20	/
41	10.000	331.00	/ 42	10.000	330.80	/ 43	10.000	330.60	/ 44	10.000	330.40	/
45	10.000	330.20	/ 46	10.000	330.00	/ 47	10.000	329.80	/ 48	10.000	329.60	/
49	10.000	329.40	/ 50	10.000	329.20	/ 51	10.000	329.00	/ 52	10.000	328.80	/
53	10.000	328.60	/ 54	10.000	328.40	/ 55	10.000	328.20	/ 56	10.000	328.00	/
57	10.000	327.80	/ 58	10.000	327.60	/ 59	10.000	327.40	/ 60	10.000	327.20	/
61	10.000	327.00	/ 62	10.000	326.80	/ 63	10.000	326.60	/ 64	10.000	326.40	/
65	10.000	326.20	/ 66	10.000	326.00	/ 67	10.000	325.80	/ 68	10.000	325.60	/
69	10.000	325.40	/ 70	10.000	325.20	/ 71	10.000	325.00	/ 72	10.000	324.80	/
73	10.000	324.60	/ 74	10.000	324.40	/ 75	10.000	324.20	/ 76	10.000	324.00	/

 ELEMENT GROUP NO. 1

0_L   :
   5 76   0   1   0   0   0   0   0   0   0   0   0   0   0   3   0   0   0   0
....
.....2D PLASTIC SOIL .....
....

element group behaviour throughout stage analysis

stage	status
1	active
2	active
3	active
4	active

 material set no.   1

 prop(1) angle   0.00000
 prop(2) layer as foreseen 1.00000

 material set no.   2

 prop(1) angle   0.00000
 prop(2) layer as foreseen 2.00000

 material set no.   3

 prop(1) angle   0.00000
 prop(2) layer as foreseen 3.00000

 element data

el	n	mat	area	.....	.....	.....	flag
1	1	1	0.1000	0.000	0.000	0.000	1.000
2	2	1	0.2000	0.000	0.000	0.000	1.000
3	3	1	0.2000	0.000	0.000	0.000	1.000
4	4	1	0.2000	0.000	0.000	0.000	1.000
5	5	1	0.2000	0.000	0.000	0.000	1.000
6	6	1	0.2000	0.000	0.000	0.000	1.000
7	7	1	0.2000	0.000	0.000	0.000	1.000
8	8	1	0.2000	0.000	0.000	0.000	1.000
9	9	1	0.2000	0.000	0.000	0.000	1.000
10	10	1	0.2000	0.000	0.000	0.000	1.000
11	11	1	0.2000	0.000	0.000	0.000	1.000
12	12	1	0.2000	0.000	0.000	0.000	1.000
13	13	1	0.2000	0.000	0.000	0.000	1.000
14	14	1	0.2000	0.000	0.000	0.000	1.000
15	15	1	0.2000	0.000	0.000	0.000	1.000
16	16	1	0.2000	0.000	0.000	0.000	1.000
17	17	1	0.2000	0.000	0.000	0.000	1.000
18	18	1	0.2000	0.000	0.000	0.000	1.000
19	19	1	0.2000	0.000	0.000	0.000	1.000
20	20	1	0.2000	0.000	0.000	0.000	1.000
21	21	2	0.2000	0.000	0.000	0.000	1.000
22	22	2	0.2000	0.000	0.000	0.000	1.000
23	23	2	0.2000	0.000	0.000	0.000	1.000
24	24	2	0.2000	0.000	0.000	0.000	1.000
25	25	2	0.2000	0.000	0.000	0.000	1.000
26	26	2	0.2000	0.000	0.000	0.000	1.000
27	27	2	0.2000	0.000	0.000	0.000	1.000
28	28	2	0.2000	0.000	0.000	0.000	1.000
29	29	2	0.2000	0.000	0.000	0.000	1.000
30	30	2	0.2000	0.000	0.000	0.000	1.000
31	31	2	0.2000	0.000	0.000	0.000	1.000
32	32	2	0.2000	0.000	0.000	0.000	1.000
33	33	2	0.2000	0.000	0.000	0.000	1.000
34	34	2	0.2000	0.000	0.000	0.000	1.000
35	35	2	0.2000	0.000	0.000	0.000	1.000
36	36	2	0.2000	0.000	0.000	0.000	1.000
37	37	2	0.2000	0.000	0.000	0.000	1.000
38	38	2	0.2000	0.000	0.000	0.000	1.000
39	39	2	0.2000	0.000	0.000	0.000	1.000
40	40	2	0.2000	0.000	0.000	0.000	1.000
41	41	3	0.2000	0.000	0.000	0.000	1.000
42	42	3	0.2000	0.000	0.000	0.000	1.000
43	43	3	0.2000	0.000	0.000	0.000	1.000

44	44	3	0.2000	0.000	0.000	0.000	1.000
45	45	3	0.2000	0.000	0.000	0.000	1.000
46	46	3	0.2000	0.000	0.000	0.000	1.000
47	47	3	0.2000	0.000	0.000	0.000	1.000
48	48	3	0.2000	0.000	0.000	0.000	1.000
49	49	3	0.2000	0.000	0.000	0.000	1.000
50	50	3	0.2000	0.000	0.000	0.000	1.000
51	51	3	0.2000	0.000	0.000	0.000	1.000
52	52	3	0.2000	0.000	0.000	0.000	1.000
53	53	3	0.2000	0.000	0.000	0.000	1.000
54	54	3	0.2000	0.000	0.000	0.000	1.000
55	55	3	0.2000	0.000	0.000	0.000	1.000
56	56	3	0.2000	0.000	0.000	0.000	1.000
57	57	3	0.2000	0.000	0.000	0.000	1.000
58	58	3	0.2000	0.000	0.000	0.000	1.000
59	59	3	0.2000	0.000	0.000	0.000	1.000
60	60	3	0.2000	0.000	0.000	0.000	1.000
61	61	3	0.2000	0.000	0.000	0.000	1.000
62	62	3	0.2000	0.000	0.000	0.000	1.000
63	63	3	0.2000	0.000	0.000	0.000	1.000
64	64	3	0.2000	0.000	0.000	0.000	1.000
65	65	3	0.2000	0.000	0.000	0.000	1.000
66	66	3	0.2000	0.000	0.000	0.000	1.000
67	67	3	0.2000	0.000	0.000	0.000	1.000
68	68	3	0.2000	0.000	0.000	0.000	1.000
69	69	3	0.2000	0.000	0.000	0.000	1.000
70	70	3	0.2000	0.000	0.000	0.000	1.000
71	71	3	0.2000	0.000	0.000	0.000	1.000
72	72	3	0.2000	0.000	0.000	0.000	1.000
73	73	3	0.2000	0.000	0.000	0.000	1.000
74	74	3	0.2000	0.000	0.000	0.000	1.000
75	75	3	0.2000	0.000	0.000	0.000	1.000
76	76	3	0.1000	0.000	0.000	0.000	1.000

 ELEMENT GROUP NO. 2

0_R   :
   5 76   0   1   0   0   0   0   0   0   0   0   0   0   0   3   0   0   0   0
....
.....2D PLASTIC SOIL .....
....

element group behaviour throughout stage analysis

stage	status
1	active
2	active
3	active
4	active

 material set no.   1

 prop(1) angle   180.000
 prop(2) layer as foreseen 1.00000

 material set no.   2

 prop(1) angle   180.000
 prop(2) layer as foreseen 2.00000

 material set no.   3

 prop(1) angle   180.000
 prop(2) layer as foreseen 3.00000

 element data

el	n	mat	area	.....	.....	.....	flag
1	1	1	0.1000	0.000	0.000	0.000	2.000
2	2	1	0.2000	0.000	0.000	0.000	2.000
3	3	1	0.2000	0.000	0.000	0.000	2.000
4	4	1	0.2000	0.000	0.000	0.000	2.000
5	5	1	0.2000	0.000	0.000	0.000	2.000
6	6	1	0.2000	0.000	0.000	0.000	2.000
7	7	1	0.2000	0.000	0.000	0.000	2.000
8	8	1	0.2000	0.000	0.000	0.000	2.000
9	9	1	0.2000	0.000	0.000	0.000	2.000
10	10	1	0.2000	0.000	0.000	0.000	2.000
11	11	1	0.2000	0.000	0.000	0.000	2.000
12	12	1	0.2000	0.000	0.000	0.000	2.000
13	13	1	0.2000	0.000	0.000	0.000	2.000
14	14	1	0.2000	0.000	0.000	0.000	2.000
15	15	1	0.2000	0.000	0.000	0.000	2.000
16	16	1	0.2000	0.000	0.000	0.000	2.000
17	17	1	0.2000	0.000	0.000	0.000	2.000
18	18	1	0.2000	0.000	0.000	0.000	2.000
19	19	1	0.2000	0.000	0.000	0.000	2.000
20	20	1	0.2000	0.000	0.000	0.000	2.000
21	21	2	0.2000	0.000	0.000	0.000	2.000
22	22	2	0.2000	0.000	0.000	0.000	2.000
23	23	2	0.2000	0.000	0.000	0.000	2.000
24	24	2	0.2000	0.000	0.000	0.000	2.000
25	25	2	0.2000	0.000	0.000	0.000	2.000
26	26	2	0.2000	0.000	0.000	0.000	2.000
27	27	2	0.2000	0.000	0.000	0.000	2.000
28	28	2	0.2000	0.000	0.000	0.000	2.000
29	29	2	0.2000	0.000	0.000	0.000	2.000
30	30	2	0.2000	0.000	0.000	0.000	2.000
31	31	2	0.2000	0.000	0.000	0.000	2.000
32	32	2	0.2000	0.000	0.000	0.000	2.000
33	33	2	0.2000	0.000	0.000	0.000	2.000
34	34	2	0.2000	0.000	0.000	0.000	2.000
35	35	2	0.2000	0.000	0.000	0.000	2.000
36	36	2	0.2000	0.000	0.000	0.000	2.000
37	37	2	0.2000	0.000	0.000	0.000	2.000
38	38	2	0.2000	0.000	0.000	0.000	2.000
39	39	2	0.2000	0.000	0.000	0.000	2.000
40	40	2	0.2000	0.000	0.000	0.000	2.000
41	41	3	0.2000	0.000	0.000	0.000	2.000
42	42	3	0.2000	0.000	0.000	0.000	2.000
43	43	3	0.2000	0.000	0.000	0.000	2.000

44	44	3	0.2000	0.000	0.000	0.000	2.000
45	45	3	0.2000	0.000	0.000	0.000	2.000
46	46	3	0.2000	0.000	0.000	0.000	2.000
47	47	3	0.2000	0.000	0.000	0.000	2.000
48	48	3	0.2000	0.000	0.000	0.000	2.000
49	49	3	0.2000	0.000	0.000	0.000	2.000
50	50	3	0.2000	0.000	0.000	0.000	2.000
51	51	3	0.2000	0.000	0.000	0.000	2.000
52	52	3	0.2000	0.000	0.000	0.000	2.000
53	53	3	0.2000	0.000	0.000	0.000	2.000
54	54	3	0.2000	0.000	0.000	0.000	2.000
55	55	3	0.2000	0.000	0.000	0.000	2.000
56	56	3	0.2000	0.000	0.000	0.000	2.000
57	57	3	0.2000	0.000	0.000	0.000	2.000
58	58	3	0.2000	0.000	0.000	0.000	2.000
59	59	3	0.2000	0.000	0.000	0.000	2.000
60	60	3	0.2000	0.000	0.000	0.000	2.000
61	61	3	0.2000	0.000	0.000	0.000	2.000
62	62	3	0.2000	0.000	0.000	0.000	2.000
63	63	3	0.2000	0.000	0.000	0.000	2.000
64	64	3	0.2000	0.000	0.000	0.000	2.000
65	65	3	0.2000	0.000	0.000	0.000	2.000
66	66	3	0.2000	0.000	0.000	0.000	2.000
67	67	3	0.2000	0.000	0.000	0.000	2.000
68	68	3	0.2000	0.000	0.000	0.000	2.000
69	69	3	0.2000	0.000	0.000	0.000	2.000
70	70	3	0.2000	0.000	0.000	0.000	2.000
71	71	3	0.2000	0.000	0.000	0.000	2.000
72	72	3	0.2000	0.000	0.000	0.000	2.000
73	73	3	0.2000	0.000	0.000	0.000	2.000
74	74	3	0.2000	0.000	0.000	0.000	2.000
75	75	3	0.2000	0.000	0.000	0.000	2.000
76	76	3	0.1000	0.000	0.000	0.000	2.000

ELEMENT GROUP NO. 3

Pali1500_253215 :
2 75 0 1 0 0 0 0 0 0 0 0 0 0 1 0 0 1 0
.....
.....2D WALL ELEMENT.....
.....

element group behaviour throughout stage analysis

stage	status
1	inactive
2	active
3	active
4	active

material set no. 1

prop(1) young modulus 0.333500E+08
prop(2) modification time 0.00000
prop(3) new young modulus 0.00000
prop(4) poisson ratio 0.00000
prop(5) future 0.00000

no. of step variable items: 1

step	inertia multipier
1	1.000
2	1.000
3	1.000
4	1.000

element data

el	na	nb	mat	erc1	erc2	thick	area	inertia	wgt(-z)	by-i	by-j
1	1	2	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
2	2	3	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
3	3	4	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
4	4	5	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
5	5	6	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
6	6	7	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
7	7	8	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
8	8	9	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
9	9	10	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
10	10	11	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
11	11	12	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
12	12	13	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
13	13	14	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
14	14	15	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
15	15	16	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
16	16	17	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
17	17	18	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
18	18	19	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
19	19	20	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
20	20	21	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
21	21	22	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
22	22	23	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
23	23	24	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
24	24	25	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
25	25	26	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
26	26	27	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
27	27	28	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
28	28	29	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
29	29	30	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
30	30	31	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
31	31	32	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
32	32	33	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
33	33	34	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
34	34	35	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
35	35	36	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
36	36	37	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
37	37	38	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
38	38	39	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
39	39	40	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
40	40	41	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
41	41	42	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
42	42	43	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
43	43	44	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
44	44	45	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
45	45	46	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000

46	46	47	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
47	47	48	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
48	48	49	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
49	49	50	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
50	50	51	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
51	51	52	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
52	52	53	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
53	53	54	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
54	54	55	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
55	55	56	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
56	56	57	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
57	57	58	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
58	58	59	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
59	59	60	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
60	60	61	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
61	61	62	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
62	62	63	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
63	63	64	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
64	64	65	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
65	65	66	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
66	66	67	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
67	67	68	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
68	68	69	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
69	69	70	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
70	70	71	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
71	71	72	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
72	72	73	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
73	73	74	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
74	74	75	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
75	75	76	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000

```
+-------------------------------------------------------------------------------------------------------------------------+
|                   PARATIEPLUS(TM)   NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*              |
|                                                                                                                         |
|                                                ParatiePlus                                                              |
|                                  Exe Time :28 January 2022   16:22:48                                                   |
+-------------------------------------------------------------------------------------------------------------------------+


NO. OF NODAL LOADS  (NLOAD) ...................    0
NO. OF LOAD CURVES  (NLCUR) ...................    8
MAXIMUM POINTS/LCURVE (NPTM)...................    5
```

L O A D D A T A

LOAD FUNCTION NUMBER = 1
NUMBER OF TIME POINTS = 5

TIME VALUE	FUNCTION
0.00000	0.0000E+00
0.80000	0.0000E+00
1.00000	0.1000E+01
1.20000	0.0000E+00
5.00000	0.0000E+00

LOAD FUNCTION NUMBER = 2
NUMBER OF TIME POINTS = 5

TIME VALUE	FUNCTION
0.00000	0.0000E+00
1.80000	0.0000E+00
2.00000	0.1000E+01
2.20000	0.0000E+00
5.00000	0.0000E+00

LOAD FUNCTION NUMBER = 3
NUMBER OF TIME POINTS = 5

TIME VALUE	FUNCTION
0.00000	0.0000E+00
2.80000	0.0000E+00
3.00000	0.1000E+01
3.20000	0.0000E+00
5.00000	0.0000E+00

LOAD FUNCTION NUMBER = 4
NUMBER OF TIME POINTS = 5

TIME VALUE	FUNCTION
0.00000	0.0000E+00
3.80000	0.0000E+00
4.00000	0.1000E+01
4.20000	0.0000E+00
5.00000	0.0000E+00

LOAD FUNCTION NUMBER = 5
NUMBER OF TIME POINTS = 4

TIME VALUE	FUNCTION
0.00000	0.0000E+00
0.80000	0.0000E+00
1.00000	0.1000E+01
5.00000	0.1000E+01

LOAD FUNCTION NUMBER = 6
NUMBER OF TIME POINTS = 4

TIME VALUE	FUNCTION
0.00000	0.0000E+00
1.80000	0.0000E+00
2.00000	0.1000E+01
5.00000	0.1000E+01

LOAD FUNCTION NUMBER = 7
NUMBER OF TIME POINTS = 4

```
    TIME VALUE      FUNCTION

       0.00000    0.0000E+00
       2.80000    0.0000E+00
       3.00000    0.1000E+01
       5.00000    0.1000E+01



    LOAD FUNCTION NUMBER   =    8
    NUMBER OF TIME POINTS  =    4

    TIME VALUE      FUNCTION

       0.00000    0.0000E+00
       3.80000    0.0000E+00
       4.00000    0.1000E+01
       5.00000    0.1000E+01


NO. OF DISTRIBUTED LOAD CARDS     0
```

L O A D B A L A N C E

STEP 1 TOTAL APPLIED LOAD IN DIR. 2 Y-DISPL.F 0.0000000
STEP 1 TOTAL APPLIED LOAD IN DIR. 4 X-ROT. F 0.0000000

STEP 2 TOTAL APPLIED LOAD IN DIR. 2 Y-DISPL.F 0.0000000
STEP 2 TOTAL APPLIED LOAD IN DIR. 4 X-ROT. F 0.0000000

STEP 3 TOTAL APPLIED LOAD IN DIR. 2 Y-DISPL.F 0.0000000
STEP 3 TOTAL APPLIED LOAD IN DIR. 4 X-ROT. F 0.0000000

STEP 4 TOTAL APPLIED LOAD IN DIR. 2 Y-DISPL.F 0.0000000
STEP 4 TOTAL APPLIED LOAD IN DIR. 4 X-ROT. F 0.0000000

LOAD INPUT SECTION COMPLETED

```
+-------------------------------------------------------------------------------------------------------------------------+
|                  PARATIEPLUS(TM)   NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*              |
|                                                                                                                         |
|                                                ParatiePlus                                                              |
|                                Exe Time :28 January 2022   16:22:48                                                     |
+-------------------------------------------------------------------------------------------------------------------------+


NO. OF LAYERS ..............................    3
NO. OF DATA PER LAYER.......................  160
```

LAYER DESCRIPTORS FOR STEP NO. 1

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 1 FOR STEP NO. 1

ITEM NO. 1<NAME >= 12.000 (BOTH WALLS)
ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
ITEM NO. 3<LEVEL >= 343.00 (BOTH WALLS)
ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)
ITEM NO. 5<GAMMAD >= 19.000 (BOTH WALLS)
ITEM NO. 6<GAMMAB >= 9.0000 (BOTH WALLS)
ITEM NO. 7<GAMMAW >= 10.000 (BOTH WALLS)
ITEM NO. 8<U-COHE >= 10.000 (BOTH WALLS)
ITEM NO. 9<U-FRICT >= 31.000 (BOTH WALLS)
ITEM NO. 10<U-KA >= 0.30300 WALL NO. 1
ITEM NO. 11<U-KP >= 3.8030 WALL NO. 1
ITEM NO. 12<K0-NC >= 0.50000 (BOTH WALLS)
ITEM NO. 13<NEXP >= 0.50000 (BOTH WALLS)
ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)
ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)
ITEM NO. 17<EVC >= 40000. (BOTH WALLS)
ITEM NO. 18<EUR >= 0.12000E+06 (BOTH WALLS)
ITEM NO. 27<U-PERM >= 0.10000E-04 (BOTH WALLS)
ITEM NO. 58<U-TZKZ >= 10000. (BOTH WALLS)
ITEM NO. 60<U-TZDELT>= 25.000 (BOTH WALLS)
ITEM NO. 61<U-TZALPH>= 0.50000 (BOTH WALLS)
ITEM NO. 82<D-NATURE>= 1.0000 (BOTH WALLS)
ITEM NO. 83<D-LEVEL >= 343.00 (BOTH WALLS)
ITEM NO. 88<D-COHE >= 10.000 (BOTH WALLS)
ITEM NO. 89<D-FRICT >= 31.000 (BOTH WALLS)
ITEM NO. 90<D-KA >= 0.34000 WALL NO. 1
ITEM NO. 91<D-KP >= 4.5550 WALL NO. 1
ITEM NO. 107<D-PERM >= 0.10000E-04 (BOTH WALLS)
ITEM NO. 138<D-TZKZ >= 10000. (BOTH WALLS)
ITEM NO. 140<D-TZDELT>= 25.000 (BOTH WALLS)
ITEM NO. 141<D-TZALPH>= 0.50000 (BOTH WALLS)

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 2 FOR STEP NO. 1

ITEM NO. 1<NAME >= 13.000 (BOTH WALLS)
ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
ITEM NO. 3<LEVEL >= 335.00 (BOTH WALLS)
ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)
ITEM NO. 5<GAMMAD >= 20.000 (BOTH WALLS)
ITEM NO. 6<GAMMAB >= 10.000 (BOTH WALLS)
ITEM NO. 7<GAMMAW >= 10.000 (BOTH WALLS)
ITEM NO. 8<U-COHE >= 10.000 (BOTH WALLS)
ITEM NO. 9<U-FRICT >= 26.000 (BOTH WALLS)
ITEM NO. 10<U-KA >= 0.36800 WALL NO. 1
ITEM NO. 11<U-KP >= 2.8670 WALL NO. 1
ITEM NO. 12<K0-NC >= 0.56200 (BOTH WALLS)
ITEM NO. 13<NEXP >= 0.50000 (BOTH WALLS)
ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)
ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)
ITEM NO. 17<EVC >= 0.20000E+06 (BOTH WALLS)
ITEM NO. 18<EUR >= 0.60000E+06 (BOTH WALLS)
ITEM NO. 27<U-PERM >= 0.10000E-04 (BOTH WALLS)
ITEM NO. 58<U-TZKZ >= 10000. (BOTH WALLS)
ITEM NO. 60<U-TZDELT>= 25.000 (BOTH WALLS)
ITEM NO. 61<U-TZALPH>= 0.50000 (BOTH WALLS)
ITEM NO. 82<D-NATURE>= 1.0000 (BOTH WALLS)
ITEM NO. 83<D-LEVEL >= 0.0000 (BOTH WALLS)
ITEM NO. 88<D-COHE >= 10.000 (BOTH WALLS)
ITEM NO. 89<D-FRICT >= 26.000 (BOTH WALLS)
ITEM NO. 90<D-KA >= 0.41800 WALL NO. 1
ITEM NO. 91<D-KP >= 3.4040 WALL NO. 1
ITEM NO. 107<D-PERM >= 0.10000E-04 (BOTH WALLS)
ITEM NO. 138<D-TZKZ >= 10000. (BOTH WALLS)
ITEM NO. 140<D-TZDELT>= 25.000 (BOTH WALLS)
ITEM NO. 141<D-TZALPH>= 0.50000 (BOTH WALLS)

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 3 FOR STEP NO. 1

ITEM NO. 1<NAME >= 14.000 (BOTH WALLS)
ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
ITEM NO. 3<LEVEL >= 331.00 (BOTH WALLS)
ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)
ITEM NO. 5<GAMMAD >= 22.500 (BOTH WALLS)
ITEM NO. 6<GAMMAB >= 12.500 (BOTH WALLS)
ITEM NO. 7<GAMMAW >= 10.000 (BOTH WALLS)
ITEM NO. 8<U-COHE >= 50.000 (BOTH WALLS)
ITEM NO. 9<U-FRICT >= 27.000 (BOTH WALLS)

ITEM NO. 10<U-KA   >= 0.35500   WALL NO.   1
ITEM NO. 11<U-KP   >= 2.9980   WALL NO.   1
ITEM NO. 12<K0-NC   >= 0.50000   (BOTH WALLS)
ITEM NO. 13<NEXP   >= 0.50000   (BOTH WALLS)
ITEM NO. 14<OCR   >= 1.0000   (BOTH WALLS)
ITEM NO. 16<MODEL   >= 1.0000   (BOTH WALLS)
ITEM NO. 17<EVC   >= 0.10000E+06 (BOTH WALLS)
ITEM NO. 18<EUR   >= 0.30000E+06 (BOTH WALLS)
ITEM NO. 27<U-PERM >= 0.10000E-03 (BOTH WALLS)
ITEM NO. 58<U-TZKZ >= 20000.   (BOTH WALLS)
ITEM NO. 60<U-TZDELT>= 30.000   (BOTH WALLS)
ITEM NO. 61<U-TZALPH>= 0.50000   (BOTH WALLS)
ITEM NO. 82<D-NATURE>= 1.0000   (BOTH WALLS)
ITEM NO. 83<D-LEVEL >= 0.0000   (BOTH WALLS)
ITEM NO. 88<D-COHE >= 50.000   (BOTH WALLS)
ITEM NO. 89<D-FRICT >= 27.000   (BOTH WALLS)
ITEM NO. 90<D-KA   >= 0.40100   WALL NO.   1
ITEM NO. 91<D-KP   >= 3.6010   WALL NO.   1
ITEM NO. 107<D-PERM >= 0.10000E-03 (BOTH WALLS)
ITEM NO. 138<D-TZKZ >= 20000.   (BOTH WALLS)
ITEM NO. 140<D-TZDELT>= 30.000   (BOTH WALLS)
ITEM NO. 141<D-TZALPH>= 0.50000   (BOTH WALLS)

LAYER DESCRIPTORS FOR STEP NO.   2

 NON ZERO LAYER DESCRIPTORS FOR LAYER NO.   1 FOR STEP NO.   2

ITEM NO.   1<NAME   >= 12.000   (BOTH WALLS)
ITEM NO.   2<NATURE >= 1.0000   (BOTH WALLS)
ITEM NO.   3<LEVEL   >= 343.00   (BOTH WALLS)
ITEM NO.   4<WALL   >= 1.0000   (BOTH WALLS)
ITEM NO.   5<GAMMAD >= 19.000   (BOTH WALLS)
ITEM NO.   6<GAMMAB >= 9.0000   (BOTH WALLS)
ITEM NO.   7<GAMMAW >= 10.000   (BOTH WALLS)
ITEM NO.   8<U-COHE >= 10.000   (BOTH WALLS)
ITEM NO.   9<U-FRICT >= 31.000   (BOTH WALLS)
ITEM NO. 10<U-KA   >= 0.32200   WALL NO.   1
ITEM NO. 11<U-KP   >= 4.5550   WALL NO.   1
ITEM NO. 12<K0-NC   >= 0.50000   (BOTH WALLS)
ITEM NO. 13<NEXP   >= 0.50000   (BOTH WALLS)
ITEM NO. 14<OCR   >= 1.0000   (BOTH WALLS)
ITEM NO. 16<MODEL   >= 1.0000   (BOTH WALLS)
ITEM NO. 17<EVC   >= 40000.   (BOTH WALLS)
ITEM NO. 18<EUR   >= 0.12000E+06 (BOTH WALLS)
ITEM NO. 27<U-PERM >= 0.10000E-04 (BOTH WALLS)
ITEM NO. 58<U-TZKZ >= 10000.   (BOTH WALLS)
ITEM NO. 60<U-TZDELT>= 25.000   (BOTH WALLS)
ITEM NO. 61<U-TZALPH>= 0.50000   (BOTH WALLS)
ITEM NO. 82<D-NATURE>= 1.0000   (BOTH WALLS)
ITEM NO. 83<D-LEVEL >= 343.00   (BOTH WALLS)
ITEM NO. 88<D-COHE >= 10.000   (BOTH WALLS)
ITEM NO. 89<D-FRICT >= 31.000   (BOTH WALLS)
ITEM NO. 90<D-KA   >= 0.32000   WALL NO.   1
ITEM NO. 91<D-KP   >= 4.5550   WALL NO.   1
ITEM NO. 107<D-PERM >= 0.10000E-04 (BOTH WALLS)
ITEM NO. 138<D-TZKZ >= 10000.   (BOTH WALLS)
ITEM NO. 140<D-TZDELT>= 25.000   (BOTH WALLS)
ITEM NO. 141<D-TZALPH>= 0.50000   (BOTH WALLS)

 NON ZERO LAYER DESCRIPTORS FOR LAYER NO.   2 FOR STEP NO.   2

ITEM NO.   1<NAME   >= 13.000   (BOTH WALLS)
ITEM NO.   2<NATURE >= 1.0000   (BOTH WALLS)
ITEM NO.   3<LEVEL   >= 335.00   (BOTH WALLS)
ITEM NO.   4<WALL   >= 1.0000   (BOTH WALLS)
ITEM NO.   5<GAMMAD >= 20.000   (BOTH WALLS)
ITEM NO.   6<GAMMAB >= 10.000   (BOTH WALLS)
ITEM NO.   7<GAMMAW >= 10.000   (BOTH WALLS)
ITEM NO.   8<U-COHE >= 10.000   (BOTH WALLS)
ITEM NO.   9<U-FRICT >= 26.000   (BOTH WALLS)
ITEM NO. 10<U-KA   >= 0.49100   WALL NO.   1
ITEM NO. 11<U-KP   >= 3.4040   WALL NO.   1
ITEM NO. 12<K0-NC   >= 0.56200   (BOTH WALLS)
ITEM NO. 13<NEXP   >= 0.50000   (BOTH WALLS)
ITEM NO. 14<OCR   >= 1.0000   (BOTH WALLS)
ITEM NO. 16<MODEL   >= 1.0000   (BOTH WALLS)
ITEM NO. 17<EVC   >= 0.20000E+06 (BOTH WALLS)
ITEM NO. 18<EUR   >= 0.60000E+06 (BOTH WALLS)
ITEM NO. 27<U-PERM >= 0.10000E-04 (BOTH WALLS)
ITEM NO. 58<U-TZKZ >= 10000.   (BOTH WALLS)
ITEM NO. 60<U-TZDELT>= 25.000   (BOTH WALLS)
ITEM NO. 61<U-TZALPH>= 0.50000   (BOTH WALLS)
ITEM NO. 82<D-NATURE>= 1.0000   (BOTH WALLS)
ITEM NO. 83<D-LEVEL >= 0.0000   (BOTH WALLS)
ITEM NO. 88<D-COHE >= 10.000   (BOTH WALLS)
ITEM NO. 89<D-FRICT >= 26.000   (BOTH WALLS)
ITEM NO. 90<D-KA   >= 0.39000   WALL NO.   1
ITEM NO. 91<D-KP   >= 3.4040   WALL NO.   1
ITEM NO. 107<D-PERM >= 0.10000E-04 (BOTH WALLS)
ITEM NO. 138<D-TZKZ >= 10000.   (BOTH WALLS)
ITEM NO. 140<D-TZDELT>= 25.000   (BOTH WALLS)

ITEM NO. 141<D-TZALPH>= 0.50000 (BOTH WALLS)

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 3 FOR STEP NO. 2

ITEM NO. 1<NAME >= 14.000 (BOTH WALLS)
ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
ITEM NO. 3<LEVEL >= 331.00 (BOTH WALLS)
ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)
ITEM NO. 5<GAMMAD >= 22.500 (BOTH WALLS)
ITEM NO. 6<GAMMAB >= 12.500 (BOTH WALLS)
ITEM NO. 7<GAMMAW >= 10.000 (BOTH WALLS)
ITEM NO. 8<U-COHE >= 50.000 (BOTH WALLS)
ITEM NO. 9<U-FRICT >= 27.000 (BOTH WALLS)
ITEM NO. 10<U-KA >= 0.48100 WALL NO. 1
ITEM NO. 11<U-KP >= 3.6010 WALL NO. 1
ITEM NO. 12<K0-NC >= 0.50000 (BOTH WALLS)
ITEM NO. 13<NEXP >= 0.50000 (BOTH WALLS)
ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)
ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)
ITEM NO. 17<EVC >= 0.10000E+06 (BOTH WALLS)
ITEM NO. 18<EUR >= 0.30000E+06 (BOTH WALLS)
ITEM NO. 27<U-PERM >= 0.10000E-03 (BOTH WALLS)
ITEM NO. 58<U-TZKZ >= 20000. (BOTH WALLS)
ITEM NO. 60<U-TZDELT>= 30.000 (BOTH WALLS)
ITEM NO. 61<U-TZALPH>= 0.50000 (BOTH WALLS)
ITEM NO. 82<D-NATURE>= 1.0000 (BOTH WALLS)
ITEM NO. 83<D-LEVEL >= 0.0000 (BOTH WALLS)
ITEM NO. 88<D-COHE >= 50.000 (BOTH WALLS)
ITEM NO. 89<D-FRICT >= 27.000 (BOTH WALLS)
ITEM NO. 90<D-KA >= 0.37600 WALL NO. 1
ITEM NO. 91<D-KP >= 3.6010 WALL NO. 1
ITEM NO. 107<D-PERM >= 0.10000E-03 (BOTH WALLS)
ITEM NO. 138<D-TZKZ >= 20000. (BOTH WALLS)
ITEM NO. 140<D-TZDELT>= 30.000 (BOTH WALLS)
ITEM NO. 141<D-TZALPH>= 0.50000 (BOTH WALLS)

LAYER DESCRIPTORS FOR STEP NO. 3

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 1 FOR STEP NO. 3

ITEM NO. 1<NAME >= 12.000 (BOTH WALLS)
ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
ITEM NO. 3<LEVEL >= 343.00 (BOTH WALLS)
ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)
ITEM NO. 5<GAMMAD >= 19.000 (BOTH WALLS)
ITEM NO. 6<GAMMAB >= 9.0000 (BOTH WALLS)
ITEM NO. 7<GAMMAW >= 10.000 (BOTH WALLS)
ITEM NO. 8<U-COHE >= 10.000 (BOTH WALLS)
ITEM NO. 9<U-FRICT >= 31.000 (BOTH WALLS)
ITEM NO. 10<U-KA >= 0.32200 WALL NO. 1
ITEM NO. 11<U-KP >= 4.5550 WALL NO. 1
ITEM NO. 12<K0-NC >= 0.50000 (BOTH WALLS)
ITEM NO. 13<NEXP >= 0.50000 (BOTH WALLS)
ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)
ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)
ITEM NO. 17<EVC >= 40000. (BOTH WALLS)
ITEM NO. 18<EUR >= 0.12000E+06 (BOTH WALLS)
ITEM NO. 27<U-PERM >= 0.10000E-04 (BOTH WALLS)
ITEM NO. 58<U-TZKZ >= 10000. (BOTH WALLS)
ITEM NO. 60<U-TZDELT>= 25.000 (BOTH WALLS)
ITEM NO. 61<U-TZALPH>= 0.50000 (BOTH WALLS)
ITEM NO. 82<D-NATURE>= 1.0000 (BOTH WALLS)
ITEM NO. 83<D-LEVEL >= 343.00 (BOTH WALLS)
ITEM NO. 88<D-COHE >= 10.000 (BOTH WALLS)
ITEM NO. 89<D-FRICT >= 31.000 (BOTH WALLS)
ITEM NO. 90<D-KA >= 0.32000 WALL NO. 1
ITEM NO. 91<D-KP >= 4.5550 WALL NO. 1
ITEM NO. 107<D-PERM >= 0.10000E-04 (BOTH WALLS)
ITEM NO. 138<D-TZKZ >= 10000. (BOTH WALLS)
ITEM NO. 140<D-TZDELT>= 25.000 (BOTH WALLS)
ITEM NO. 141<D-TZALPH>= 0.50000 (BOTH WALLS)

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 2 FOR STEP NO. 3

ITEM NO. 1<NAME >= 13.000 (BOTH WALLS)
ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
ITEM NO. 3<LEVEL >= 335.00 (BOTH WALLS)
ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)
ITEM NO. 5<GAMMAD >= 20.000 (BOTH WALLS)
ITEM NO. 6<GAMMAB >= 10.000 (BOTH WALLS)
ITEM NO. 7<GAMMAW >= 10.000 (BOTH WALLS)
ITEM NO. 8<U-COHE >= 10.000 (BOTH WALLS)
ITEM NO. 9<U-FRICT >= 26.000 (BOTH WALLS)
ITEM NO. 10<U-KA >= 0.49100 WALL NO. 1
ITEM NO. 11<U-KP >= 3.4040 WALL NO. 1
ITEM NO. 12<K0-NC >= 0.56200 (BOTH WALLS)
ITEM NO. 13<NEXP >= 0.50000 (BOTH WALLS)
ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)
ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)
ITEM NO. 17<EVC >= 0.20000E+06 (BOTH WALLS)
ITEM NO. 18<EUR >= 0.60000E+06 (BOTH WALLS)

ITEM NO. 27<U-PERM >= 0.10000E-04 (BOTH WALLS)
ITEM NO. 58<U-TZKZ >= 10000.   (BOTH WALLS)
ITEM NO. 60<U-TZDELT>= 25.000   (BOTH WALLS)
ITEM NO. 61<U-TZALPH>= 0.50000   (BOTH WALLS)
ITEM NO. 82<D-NATURE>= 1.0000   (BOTH WALLS)
ITEM NO. 83<D-LEVEL >= 0.0000   (BOTH WALLS)
ITEM NO. 88<D-COHE >= 10.000   (BOTH WALLS)
ITEM NO. 89<D-FRICT >= 26.000   (BOTH WALLS)
ITEM NO. 90<D-KA   >= 0.39000   WALL NO.   1
ITEM NO. 91<D-KP   >= 3.4040   WALL NO.   1
ITEM NO. 107<D-PERM >= 0.10000E-04 (BOTH WALLS)
ITEM NO. 138<D-TZKZ >= 10000.   (BOTH WALLS)
ITEM NO. 140<D-TZDELT>= 25.000   (BOTH WALLS)
ITEM NO. 141<D-TZALPH>= 0.50000   (BOTH WALLS)

 NON ZERO LAYER DESCRIPTORS FOR LAYER NO.   3 FOR STEP NO.   3

ITEM NO.   1<NAME   >= 14.000   (BOTH WALLS)
ITEM NO.   2<NATURE >= 1.0000   (BOTH WALLS)
ITEM NO.   3<LEVEL   >= 331.00   (BOTH WALLS)
ITEM NO.   4<WALL   >= 1.0000   (BOTH WALLS)
ITEM NO.   5<GAMMAD >= 22.500   (BOTH WALLS)
ITEM NO.   6<GAMMAB >= 12.500   (BOTH WALLS)
ITEM NO.   7<GAMMAW >= 10.000   (BOTH WALLS)
ITEM NO.   8<U-COHE >= 50.000   (BOTH WALLS)
ITEM NO.   9<U-FRICT >= 27.000   (BOTH WALLS)
ITEM NO. 10<U-KA   >= 0.48100   WALL NO.   1
ITEM NO. 11<U-KP   >= 3.6010   WALL NO.   1
ITEM NO. 12<K0-NC   >= 0.50000   (BOTH WALLS)
ITEM NO. 13<NEXP   >= 0.50000   (BOTH WALLS)
ITEM NO. 14<OCR   >= 1.0000   (BOTH WALLS)
ITEM NO. 16<MODEL   >= 1.0000   (BOTH WALLS)
ITEM NO. 17<EVC   >= 0.10000E+06 (BOTH WALLS)
ITEM NO. 18<EUR   >= 0.30000E+06 (BOTH WALLS)
ITEM NO. 27<U-PERM >= 0.10000E-03 (BOTH WALLS)
ITEM NO. 58<U-TZKZ >= 20000.   (BOTH WALLS)
ITEM NO. 60<U-TZDELT>= 30.000   (BOTH WALLS)
ITEM NO. 61<U-TZALPH>= 0.50000   (BOTH WALLS)
ITEM NO. 82<D-NATURE>= 1.0000   (BOTH WALLS)
ITEM NO. 83<D-LEVEL >= 0.0000   (BOTH WALLS)
ITEM NO. 88<D-COHE >= 50.000   (BOTH WALLS)
ITEM NO. 89<D-FRICT >= 27.000   (BOTH WALLS)
ITEM NO. 90<D-KA   >= 0.37600   WALL NO.   1
ITEM NO. 91<D-KP   >= 3.6010   WALL NO.   1
ITEM NO. 107<D-PERM >= 0.10000E-03 (BOTH WALLS)
ITEM NO. 138<D-TZKZ >= 20000.   (BOTH WALLS)
ITEM NO. 140<D-TZDELT>= 30.000   (BOTH WALLS)
ITEM NO. 141<D-TZALPH>= 0.50000   (BOTH WALLS)

LAYER DESCRIPTORS FOR STEP NO.   4

 NON ZERO LAYER DESCRIPTORS FOR LAYER NO.   1 FOR STEP NO.   4

ITEM NO.   1<NAME   >= 12.000   (BOTH WALLS)
ITEM NO.   2<NATURE >= 1.0000   (BOTH WALLS)
ITEM NO.   3<LEVEL   >= 343.00   (BOTH WALLS)
ITEM NO.   4<WALL   >= 1.0000   (BOTH WALLS)
ITEM NO.   5<GAMMAD >= 19.000   (BOTH WALLS)
ITEM NO.   6<GAMMAB >= 9.0000   (BOTH WALLS)
ITEM NO.   7<GAMMAW >= 10.000   (BOTH WALLS)
ITEM NO.   8<U-COHE >= 10.000   (BOTH WALLS)
ITEM NO.   9<U-FRICT >= 31.000   (BOTH WALLS)
ITEM NO. 10<U-KA   >= 0.32200   WALL NO.   1
ITEM NO. 11<U-KP   >= 4.5550   WALL NO.   1
ITEM NO. 12<K0-NC   >= 0.50000   (BOTH WALLS)
ITEM NO. 13<NEXP   >= 0.50000   (BOTH WALLS)
ITEM NO. 14<OCR   >= 1.0000   (BOTH WALLS)
ITEM NO. 16<MODEL   >= 1.0000   (BOTH WALLS)
ITEM NO. 17<EVC   >= 40000.   (BOTH WALLS)
ITEM NO. 18<EUR   >= 0.12000E+06 (BOTH WALLS)
ITEM NO. 27<U-PERM >= 0.10000E-04 (BOTH WALLS)
ITEM NO. 58<U-TZKZ >= 10000.   (BOTH WALLS)
ITEM NO. 60<U-TZDELT>= 25.000   (BOTH WALLS)
ITEM NO. 61<U-TZALPH>= 0.50000   (BOTH WALLS)
ITEM NO. 82<D-NATURE>= 1.0000   (BOTH WALLS)
ITEM NO. 83<D-LEVEL >= 343.00   (BOTH WALLS)
ITEM NO. 88<D-COHE >= 10.000   (BOTH WALLS)
ITEM NO. 89<D-FRICT >= 31.000   (BOTH WALLS)
ITEM NO. 90<D-KA   >= 0.32000   WALL NO.   1
ITEM NO. 91<D-KP   >= 4.5550   WALL NO.   1
ITEM NO. 107<D-PERM >= 0.10000E-04 (BOTH WALLS)
ITEM NO. 138<D-TZKZ >= 10000.   (BOTH WALLS)
ITEM NO. 140<D-TZDELT>= 25.000   (BOTH WALLS)
ITEM NO. 141<D-TZALPH>= 0.50000   (BOTH WALLS)

 NON ZERO LAYER DESCRIPTORS FOR LAYER NO.   2 FOR STEP NO.   4

ITEM NO.   1<NAME   >= 13.000   (BOTH WALLS)
ITEM NO.   2<NATURE >= 1.0000   (BOTH WALLS)
ITEM NO.   3<LEVEL   >= 335.00   (BOTH WALLS)
ITEM NO.   4<WALL   >= 1.0000   (BOTH WALLS)

ITEM NO. 5<GAMMAD >= 20.000   (BOTH WALLS)
ITEM NO. 6<GAMMAB >= 10.000   (BOTH WALLS)
ITEM NO. 7<GAMMAW >= 10.000   (BOTH WALLS)
ITEM NO. 8<U-COHE >= 10.000   (BOTH WALLS)
ITEM NO. 9<U-FRICT >= 26.000   (BOTH WALLS)
ITEM NO. 10<U-KA   >= 0.49100   WALL NO.   1
ITEM NO. 11<U-KP   >= 3.4040   WALL NO.   1
ITEM NO. 12<K0-NC   >= 0.56200   (BOTH WALLS)
ITEM NO. 13<NEXP   >= 0.50000   (BOTH WALLS)
ITEM NO. 14<OCR   >= 1.0000   (BOTH WALLS)
ITEM NO. 16<MODEL   >= 1.0000   (BOTH WALLS)
ITEM NO. 17<EVC   >= 0.20000E+06 (BOTH WALLS)
ITEM NO. 18<EUR   >= 0.60000E+06 (BOTH WALLS)
ITEM NO. 27<U-PERM >= 0.10000E-04 (BOTH WALLS)
ITEM NO. 58<U-TZKZ >= 10000.   (BOTH WALLS)
ITEM NO. 60<U-TZDELT>= 25.000   (BOTH WALLS)
ITEM NO. 61<U-TZALPH>= 0.50000   (BOTH WALLS)
ITEM NO. 82<D-NATURE>= 1.0000   (BOTH WALLS)
ITEM NO. 83<D-LEVEL >= 0.0000   (BOTH WALLS)
ITEM NO. 88<D-COHE >= 10.000   (BOTH WALLS)
ITEM NO. 89<D-FRICT >= 26.000   (BOTH WALLS)
ITEM NO. 90<D-KA   >= 0.39000   WALL NO.   1
ITEM NO. 91<D-KP   >= 3.4040   WALL NO.   1
ITEM NO. 107<D-PERM >= 0.10000E-04 (BOTH WALLS)
ITEM NO. 138<D-TZKZ >= 10000.   (BOTH WALLS)
ITEM NO. 140<D-TZDELT>= 25.000   (BOTH WALLS)
ITEM NO. 141<D-TZALPH>= 0.50000   (BOTH WALLS)

 NON ZERO LAYER DESCRIPTORS FOR LAYER NO.   3 FOR STEP NO.   4

ITEM NO. 1<NAME   >= 14.000   (BOTH WALLS)
ITEM NO. 2<NATURE >= 1.0000   (BOTH WALLS)
ITEM NO. 3<LEVEL   >= 331.00   (BOTH WALLS)
ITEM NO. 4<WALL   >= 1.0000   (BOTH WALLS)
ITEM NO. 5<GAMMAD >= 22.500   (BOTH WALLS)
ITEM NO. 6<GAMMAB >= 12.500   (BOTH WALLS)
ITEM NO. 7<GAMMAW >= 10.000   (BOTH WALLS)
ITEM NO. 8<U-COHE >= 50.000   (BOTH WALLS)
ITEM NO. 9<U-FRICT >= 27.000   (BOTH WALLS)
ITEM NO. 10<U-KA   >= 0.48100   WALL NO.   1
ITEM NO. 11<U-KP   >= 3.6010   WALL NO.   1
ITEM NO. 12<K0-NC   >= 0.50000   (BOTH WALLS)
ITEM NO. 13<NEXP   >= 0.50000   (BOTH WALLS)
ITEM NO. 14<OCR   >= 1.0000   (BOTH WALLS)
ITEM NO. 16<MODEL   >= 1.0000   (BOTH WALLS)
ITEM NO. 17<EVC   >= 0.10000E+06 (BOTH WALLS)
ITEM NO. 18<EUR   >= 0.30000E+06 (BOTH WALLS)
ITEM NO. 27<U-PERM >= 0.10000E-03 (BOTH WALLS)
ITEM NO. 58<U-TZKZ >= 20000.   (BOTH WALLS)
ITEM NO. 60<U-TZDELT>= 30.000   (BOTH WALLS)
ITEM NO. 61<U-TZALPH>= 0.50000   (BOTH WALLS)
ITEM NO. 82<D-NATURE>= 1.0000   (BOTH WALLS)
ITEM NO. 83<D-LEVEL >= 0.0000   (BOTH WALLS)
ITEM NO. 88<D-COHE >= 50.000   (BOTH WALLS)
ITEM NO. 89<D-FRICT >= 27.000   (BOTH WALLS)
ITEM NO. 90<D-KA   >= 0.37600   WALL NO.   1
ITEM NO. 91<D-KP   >= 3.6010   WALL NO.   1
ITEM NO. 107<D-PERM >= 0.10000E-03 (BOTH WALLS)
ITEM NO. 138<D-TZKZ >= 20000.   (BOTH WALLS)
ITEM NO. 140<D-TZDELT>= 30.000   (BOTH WALLS)
ITEM NO. 141<D-TZALPH>= 0.50000   (BOTH WALLS)

DEFAULT WATER UNIT WEIGHT = 10.000
AVERAGED ON   12 VALUES

```
+-----------------------------------------------------------------------------------------------------------------------+
|                   PARATIEPLUS(TM)   NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*             |
|                                                                                                                       |
|                                                ParatiePlus                                                            |
|                                  Exe Time :28 January 2022   16:22:48                                                 |
+-----------------------------------------------------------------------------------------------------------------------+

PHASE DESCRIPTORS


STEP  NO.     1 no. of subincrements     1
                                       LEFT WALL    RIGHT WALL
Y                                       10.00       -0.9990E+30
Z-PC                                    343.0         0.000
Z-EXCAVATION                            343.0         0.000
Z-WATER_TABLE                           337.5       -0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL               0.000         0.000
ZQ                                      0.000         0.000
DZW_OF_THE_WATER_TABLE                 -0.6605E-01    0.000
QS_ON_THE_EXCAVATION_SIDE               0.000         0.000
ZQS                                     0.000       -0.9990E+30
ZCUT                                    0.000         0.000
BALANCE LEVEL FOR PORE PRESSURES        324.0         324.0
WATER_BEHAVIOUR_FLAG (LINING OPT)       0.000         0.000
PORE_UPDATE_FLAG                        0.000         0.000
PORE_TAB. _FLAG (gt.0= use tabs)        0.000         0.000
lateral thrusts reduction elevatio      0.000         0.000
Downhill reduction factor for effe      0.000         0.000
Downhill reduction factor for pore      0.000         0.000
Uphill reduction factor for effect      0.000         0.000
Uphill reduction factor for pore p      0.000         0.000
SEISMIC HORIZONTAL ACCEL. Kh [g]        0.000         0.000
UPHILL VERTICAL ACCEL.  Kv_uh [g]       0.000         0.000
DOWNHILL VERTICAL ACCEL.Kv_dh [g]       0.000         0.000
UPHILL BETA ANGLE (SLOPE) [deg]         0.000         0.000
UPHILL DELTA/PHI RATIO                  0.000         0.000
DOWNHILL BETA ANGLE (SLOPE) [deg]       0.000         0.000
DOWNHILL DELTA/PHI RATIO                0.000         0.000
DYN.WATER BEHAVIOUR                     0.000         0.000
Excess pore pressure RATIO Ru           0.000         0.000
SEISMIC PRESSURE LOWER VALUE            0.000         0.000
SEISMIC PRESSURE UPPER VALUE            0.000         0.000
SEISMIC PRESSURE LOWER LEVEL            0.000         0.000
SEISMIC PRESSURE UPPER LEVEL            0.000         0.000

=============================================================================================================end of step    1


STEP  NO.     2 no. of subincrements     1
                                       LEFT WALL    RIGHT WALL
Y                                       10.00       -0.9990E+30
Z-PC                                    339.0         0.000
Z-EXCAVATION                            339.0         0.000
Z-WATER_TABLE                           337.5       -0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL               0.000         0.000
ZQ                                      0.000         0.000
DZW_OF_THE_WATER_TABLE                 -0.3933E-01    0.000
QS_ON_THE_EXCAVATION_SIDE               0.000         0.000
ZQS                                     0.000       -0.9990E+30
ZCUT                                    0.000         0.000
BALANCE LEVEL FOR PORE PRESSURES        324.0         324.0
WATER_BEHAVIOUR_FLAG (LINING OPT)       0.000         0.000
PORE_UPDATE_FLAG                        0.000         0.000
PORE_TAB. _FLAG (gt.0= use tabs)        0.000         0.000
lateral thrusts reduction elevatio      0.000         0.000
Downhill reduction factor for effe      0.000         0.000
Downhill reduction factor for pore      0.000         0.000
Uphill reduction factor for effect      0.000         0.000
Uphill reduction factor for pore p      0.000         0.000
SEISMIC HORIZONTAL ACCEL. Kh [g]        0.000         0.000
UPHILL VERTICAL ACCEL.  Kv_uh [g]       0.000         0.000
DOWNHILL VERTICAL ACCEL.Kv_dh [g]       0.000         0.000
UPHILL BETA ANGLE (SLOPE) [deg]         0.000         0.000
UPHILL DELTA/PHI RATIO                  0.000         0.000
DOWNHILL BETA ANGLE (SLOPE) [deg]       0.000         0.000
DOWNHILL DELTA/PHI RATIO                0.000         0.000
DYN.WATER BEHAVIOUR                     0.000         0.000
Excess pore pressure RATIO Ru           0.000         0.000
SEISMIC PRESSURE LOWER VALUE            0.000         0.000
SEISMIC PRESSURE UPPER VALUE            0.000         0.000
SEISMIC PRESSURE LOWER LEVEL            0.000         0.000
SEISMIC PRESSURE UPPER LEVEL            0.000         0.000

=============================================================================================================end of step    2


STEP  NO.     3 no. of subincrements     1
                                       LEFT WALL    RIGHT WALL
Y                                       10.00       -0.9990E+30
```

Z-PC	339.0	0.000
Z-EXCAVATION	333.0	0.000
Z-WATER_TABLE	337.5	-0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL	0.000	0.000
ZQ	0.000	0.000
DZW_OF_THE_WATER_TABLE	4.973	0.000
QS_ON_THE_EXCAVATION_SIDE	0.000	0.000
ZQS	0.000	-0.9990E+30
ZCUT	0.000	0.000
BALANCE LEVEL FOR PORE PRESSURES	324.0	324.0
WATER_BEHAVIOUR_FLAG (LINING OPT)	0.000	0.000
PORE_UPDATE_FLAG	0.000	0.000
PORE_TAB. _FLAG (gt.0= use tabs)	0.000	0.000
lateral thrusts reduction elevatio	0.000	0.000
Downhill reduction factor for effe	0.000	0.000
Downhill reduction factor for pore	0.000	0.000
Uphill reduction factor for effect	0.000	0.000
Uphill reduction factor for pore p	0.000	0.000
SEISMIC HORIZONTAL ACCEL. Kh [g]	0.000	0.000
UPHILL VERTICAL ACCEL. Kv_uh [g]	0.000	0.000
DOWNHILL VERTICAL ACCEL.Kv_dh [g]	0.000	0.000
UPHILL BETA ANGLE (SLOPE) [deg]	0.000	0.000
UPHILL DELTA/PHI RATIO	0.000	0.000
DOWNHILL BETA ANGLE (SLOPE) [deg]	0.000	0.000
DOWNHILL DELTA/PHI RATIO	0.000	0.000
DYN.WATER BEHAVIOUR	0.000	0.000
Excess pore pressure RATIO Ru	0.000	0.000
SEISMIC PRESSURE LOWER VALUE	0.000	0.000
SEISMIC PRESSURE UPPER VALUE	0.000	0.000
SEISMIC PRESSURE LOWER LEVEL	0.000	0.000
SEISMIC PRESSURE UPPER LEVEL	0.000	0.000

==========end of step   3

STEP NO.   4 no. of subincrements   1

	LEFT WALL	RIGHT WALL
Y	10.00	-0.9990E+30
Z-PC	339.0	0.000
Z-EXCAVATION	333.0	0.000
Z-WATER_TABLE	337.5	-0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL	0.000	0.000
ZQ	0.000	0.000
DZW_OF_THE_WATER_TABLE	4.973	0.000
QS_ON_THE_EXCAVATION_SIDE	0.000	0.000
ZQS	0.000	-0.9990E+30
ZCUT	0.000	0.000
BALANCE LEVEL FOR PORE PRESSURES	324.0	324.0
WATER_BEHAVIOUR_FLAG (LINING OPT)	0.000	0.000
PORE_UPDATE_FLAG	0.000	0.000
PORE_TAB. _FLAG (gt.0= use tabs)	0.000	0.000
lateral thrusts reduction elevatio	0.000	0.000
Downhill reduction factor for effe	0.000	0.000
Downhill reduction factor for pore	0.000	0.000
Uphill reduction factor for effect	0.000	0.000
Uphill reduction factor for pore p	0.000	0.000
SEISMIC HORIZONTAL ACCEL. Kh [g]	0.000	0.000
UPHILL VERTICAL ACCEL. Kv_uh [g]	0.000	0.000
DOWNHILL VERTICAL ACCEL.Kv_dh [g]	0.000	0.000
UPHILL BETA ANGLE (SLOPE) [deg]	0.000	0.000
UPHILL DELTA/PHI RATIO	0.000	0.000
DOWNHILL BETA ANGLE (SLOPE) [deg]	0.000	0.000
DOWNHILL DELTA/PHI RATIO	0.000	0.000
DYN.WATER BEHAVIOUR	0.000	0.000
Excess pore pressure RATIO Ru	0.000	0.000
SEISMIC PRESSURE LOWER VALUE	0.000	0.000
SEISMIC PRESSURE UPPER VALUE	0.000	0.000
SEISMIC PRESSURE LOWER LEVEL	0.000	0.000
SEISMIC PRESSURE UPPER LEVEL	0.000	0.000

==========end of step   4

LEFT-HAND WALL

LOWER LEVEL   324.00000
UPPER LEVEL   339.00000

RIGHT-HAND WALL

LOWER LEVEL   324.00000
UPPER LEVEL   339.00000

ELEMENT GROUPS BACKUP AREA CAN STAY IN CORE AT
POSITION   5556

NO. OF D.P.W FOR THIS AREA   11615
MAX NO. OF D.P.W. AVAILABLE   81920

```
 ** MAX NO OF ITERATIONS SET TO          80

ITER     0 RNORM = 0.000     RMNORM= 0.000
           RINORM=0.1526E+06 RIMNOR= 0.000
           RENORM=0.4913E-01 REMNOR= 0.000     RATIO =0.5675E-03 TOLER =0.1000E-03  NOT CONVERGED
           RFMAX = 51.81     RMMAX = 0.000
           RTSMAL=0.1000E-03 RMSMAL= 0.000
           RDT   =0.1526E+06 RDR   = 0.000
           RATIOT=0.5675E-03 RATIOR= 0.000
           MAX UN= 0.000     IEQ=   152 NODE     76 DOF   2   X-ROT. F
           MIN UN=-.6510E-01 IEQ=    17 NODE      9 DOF   1  Y-DISPL.F
           NO. OF CONTACT CONSTRAINT VIOLATIONS     0


ITER     2 RNORM = 0.000     RMNORM= 0.000
           RINORM=0.1526E+06 RIMNOR= 0.000
           RENORM=0.1130E-26 REMNOR= 0.000     RATIO =0.8605E-16 TOLER =0.1000E-03      CONVERGED !
           RFMAX = 51.81     RMMAX = 0.000
           RTSMAL=0.1000E-03 RMSMAL= 0.000
           RDT   =0.1526E+06 RDR   = 0.000
           RATIOT=0.8605E-16 RATIOR= 0.000
           MAX UN=0.1421E-13 IEQ=   105 NODE     53 DOF   1  Y-DISPL.F
           MIN UN=-.1421E-13 IEQ=    99 NODE     50 DOF   1  Y-DISPL.F
           NO. OF CONTACT CONSTRAINT VIOLATIONS     0
```

```
+-----------------------------------------------------------------------------------------------------------------------+
|                  PARATIEPLUS(TM)   NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*             |
|                                                                                                                       |
|                                                ParatiePlus                                                            |
|                                  Exe Time :28 January 2022   16:22:48                                                 |
+-----------------------------------------------------------------------------------------------------------------------+
New Project
SOLUTION REACHED USING     2 ITERATIONS ON   80

P R I N T   O U T   F O R   T I M E   S T E P   1     ( AT TIME   1.000     ) SUBINCREMENT 00001/00001

PRINT OUT OF ACTIVE COMPONENTS (FIXED NODES ARE NOT PRINTED OUT)

          Y-DISPL.F        X-ROT. F
            02               04
    9  -3.1528369E-06    0.000000
   10  -3.0640234E-06    0.000000
   11  -2.9752098E-06    0.000000
   12  -2.8863963E-06    0.000000
   13  -2.7975827E-06    0.000000
   14  -2.7087247E-06    0.000000
   15  -2.6199112E-06    0.000000
   16  -2.5310976E-06    0.000000
   17  -2.4422841E-06    0.000000
   18  -2.3534705E-06    0.000000
   19  -2.2646569E-06    0.000000
   20  -2.1758434E-06    0.000000
   21  -3.5283727E-07    0.000000
   22  -3.3781477E-07    0.000000
   23  -3.2279978E-07    0.000000
   24  -3.0778479E-07    0.000000
   25  -2.9276980E-07    0.000000
   26  -2.7775481E-07    0.000000
   27  -2.6273981E-07    0.000000
   28  -2.4772482E-07    0.000000
   29  -2.3270983E-07    0.000000
   30  -2.1768734E-07    0.000000
   31  -2.0267234E-07    0.000000
   32  -1.8765735E-07    0.000000
   33  -1.7264236E-07    0.000000
   34  -1.5762737E-07    0.000000
   35  -1.4261238E-07    0.000000
   36  -1.2759739E-07    0.000000
   37  -1.1258240E-07    0.000000
   38  -9.7559902E-08    0.000000
   39  -8.2544911E-08    0.000000
   40  -6.7529921E-08    0.000000
   41  -1.2089843E-07    0.000000
   42  -1.1744394E-07    0.000000
   43  -1.1398946E-07    0.000000
   44  -1.1053497E-07    0.000000
   45  -1.0708048E-07    0.000000
   46  -1.0362599E-07    0.000000
   47  -1.0016978E-07    0.000000
   48  -9.6715290E-08    0.000000
   49  -9.3260803E-08    0.000000
   50  -8.9806315E-08    0.000000
   51  -8.6351827E-08    0.000000
   52  -8.2897340E-08    0.000000
   53  -7.9442852E-08    0.000000
   54  -7.5988364E-08    0.000000
   55  -7.2532149E-08    0.000000
   56  -6.9077662E-08    0.000000
   57  -6.5623174E-08    0.000000
   58  -6.2168687E-08    0.000000
   59  -5.8714199E-08    0.000000
   60  -5.5259711E-08    0.000000
   61  -5.1805224E-08    0.000000
   62  -4.8350736E-08    0.000000
   63  -4.4894521E-08    0.000000
   64  -4.1440034E-08    0.000000
   65  -3.7985546E-08    0.000000
   66  -3.4531058E-08    0.000000
   67  -3.1076571E-08    0.000000
   68  -2.7622083E-08    0.000000
   69  -2.4167595E-08    0.000000
   70  -2.0713108E-08    0.000000
   71  -1.7256893E-08    0.000000
   72  -1.3802405E-08    0.000000
   73  -1.0347918E-08    0.000000
   74  -6.8934301E-09    0.000000
   75  -3.4389424E-09    0.000000
```

```
+-----------------------------------------------------------------------------------------------------------------------+
|                  PARATIEPLUS(TM)   NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*             |
|                                                                                                                       |
|                                            ParatiePlus                                                                |
|                                  Exe Time :28 January 2022   16:22:48                                                 |
+-----------------------------------------------------------------------------------------------------------------------+
New Project


S T R E S S   R E S U L T S   F O R   G R O U P   N O.   1

0_L                                                    :
ELEMENT TYPE    5 NO.OF ELEMENTS. IN THIS GROUP   76
C U R R E N T   T I M E   I S      1.0000 SUBINCREMENT 00001/00001

 HARDENING 2D SOIL ELEMENT

 ****** TOTAL STRESS FORMULATION *****

  EL *   FORCE     DISPL-Y  VERTICAL-P  HORIZON.-P     MAX-V-P     MAX-H-P          STATE   STIFFNESS Z-LEVEL      PORE       E FAC-
TOR    UFACTOR       Peq          Su_a        Su_p        Cohe_a      Cohe_p     LAYER                              ZFO         QS
QSL         ZD          ZPL          Kz
 ------------------------------------------------------------------------------------------------------------------------------
-----------------------------------------------------------------------------------------------------------------------------
-----------------------------------------------
   1 D   3.800       0.000       76.00       38.00       76.00       38.00           V-C  3.5350E+04   339.0       0.000
1.000       1.000       38.00       0.000       0.000       0.000       0.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   2 D   7.980       0.000       79.80       39.90       79.80       39.90           V-C  3.5350E+04   338.8       0.000
1.000       1.000       39.90       0.000       0.000       0.000       0.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   3 D   8.360       0.000       83.60       41.80       83.60       41.80           V-C  3.5350E+04   338.6       0.000
1.000       1.000       41.80       0.000       0.000       0.000       0.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   4 D   8.740       0.000       87.40       43.70       87.40       43.70           V-C  3.5350E+04   338.4       0.000
1.000       1.000       43.70       0.000       0.000       0.000       0.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   5 D   9.120       0.000       91.20       45.60       91.20       45.60           V-C  3.5350E+04   338.2       0.000
1.000       1.000       45.60       0.000       0.000       0.000       0.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   6 D   9.500       0.000       95.00       47.50       95.00       47.50           V-C  3.5350E+04   338.0       0.000
1.000       1.000       47.50       0.000       0.000       0.000       0.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   7 D   9.880       0.000       98.80       49.40       98.80       49.40           V-C  3.5350E+04   337.8       0.000
1.000       1.000       49.40       0.000       0.000       0.000       0.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   8 D   10.26       0.000       102.6       51.30       102.6       51.30           V-C  3.5350E+04   337.6       0.000
1.000       1.000       51.30       0.000       0.000       0.000       0.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   9 D   10.73     3.1528E-06    105.7       52.96       105.7       52.96           V-C  3.5350E+04   337.4       0.7042
1.000       1.000       53.66       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  10 D   11.31     3.0640E-06    107.5       53.85       107.5       53.85           V-C  3.5350E+04   337.2       2.713
1.000       1.000       56.57       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  11 D   11.89     2.9752E-06    109.3       54.74       109.3       54.74           V-C  3.5350E+04   337.0       4.723
1.000       1.000       59.47       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  12 D   12.47     2.8864E-06    111.1       55.64       111.1       55.64           V-C  3.5350E+04   336.8       6.732
1.000       1.000       62.37       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  13 D   13.05     2.7976E-06    112.9       56.53       112.9       56.53           V-C  3.5350E+04   336.6       8.741
1.000       1.000       65.27       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  14 D   13.63     2.7087E-06    114.7       57.42       114.7       57.42           V-C  3.5350E+04   336.4       10.75
1.000       1.000       68.17       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  15 D   14.21     2.6199E-06    116.4       58.31       116.4       58.31           V-C  3.5350E+04   336.2       12.76
1.000       1.000       71.07       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  16 D   14.80     2.5311E-06    118.2       59.21       118.2       59.21           V-C  3.5350E+04   336.0       14.77
1.000       1.000       73.98       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  17 D   15.38     2.4423E-06    120.0       60.10       120.0       60.10           V-C  3.5350E+04   335.8       16.78
1.000       1.000       76.88       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  18 D   15.96     2.3535E-06    121.8       60.99       121.8       60.99           V-C  3.5350E+04   335.6       18.79
1.000       1.000       79.78       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  19 D   16.54     2.2647E-06    123.6       61.88       123.6       61.88           V-C  3.5350E+04   335.4       20.80
1.000       1.000       82.68       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  20 D   17.12     2.1758E-06    125.4       62.78       125.4       62.78           V-C  3.5350E+04   335.2       22.81
1.000       1.000       85.58       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  21 D   19.27     3.5284E-07    127.2       71.54       127.2       71.54           V-C  1.6003E+05   335.0       24.82
1.000       1.000       96.35       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  22 D   19.90     3.3781E-07    129.2       72.65       129.2       72.65           V-C  1.6003E+05   334.8       26.83
```

```
1.000       1.000       99.48       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  23 D   20.52      3.2280E-07   131.2       73.77       131.2       73.77           V-C  1.6003E+05   334.6       28.83
1.000       1.000       102.6       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  24 D   21.15      3.0778E-07   133.2       74.89       133.2       74.89           V-C  1.6003E+05   334.4       30.84
1.000       1.000       105.7       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  25 D   21.77      2.9277E-07   135.2       76.00       135.2       76.00           V-C  1.6003E+05   334.2       32.85
1.000       1.000       108.9       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  26 D   22.40      2.7775E-07   137.1       77.12       137.1       77.12           V-C  1.6003E+05   334.0       34.86
1.000       1.000       112.0       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  27 D   23.02      2.6274E-07   139.1       78.24       139.1       78.24           V-C  1.6003E+05   333.8       36.87
1.000       1.000       115.1       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  28 D   23.65      2.4772E-07   141.1       79.35       141.1       79.35           V-C  1.6003E+05   333.6       38.88
1.000       1.000       118.2       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  29 D   24.27      2.3271E-07   143.1       80.47       143.1       80.47           V-C  1.6003E+05   333.4       40.89
1.000       1.000       121.4       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  30 D   24.90      2.1769E-07   145.1       81.59       145.1       81.59           V-C  1.6003E+05   333.2       42.90
1.000       1.000       124.5       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  31 D   25.52      2.0267E-07   147.1       82.70       147.1       82.70           V-C  1.6003E+05   333.0       44.91
1.000       1.000       127.6       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  32 D   26.15      1.8766E-07   149.1       83.82       149.1       83.82           V-C  1.6003E+05   332.8       46.92
1.000       1.000       130.7       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  33 D   26.77      1.7264E-07   151.1       84.93       151.1       84.93           V-C  1.6003E+05   332.6       48.93
1.000       1.000       133.9       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  34 D   27.40      1.5763E-07   153.1       86.05       153.1       86.05           V-C  1.6003E+05   332.4       50.94
1.000       1.000       137.0       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  35 D   28.02      1.4261E-07   155.1       87.17       155.1       87.17           V-C  1.6003E+05   332.2       52.95
1.000       1.000       140.1       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  36 D   28.65      1.2760E-07   157.1       88.28       157.1       88.28           V-C  1.6003E+05   332.0       54.95
1.000       1.000       143.2       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  37 D   29.27      1.1258E-07   159.0       89.40       159.0       89.40           V-C  1.6003E+05   331.8       56.96
1.000       1.000       146.4       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  38 D   29.90      9.7560E-08   161.0       90.52       161.0       90.52           V-C  1.6003E+05   331.6       58.97
1.000       1.000       149.5       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  39 D   30.52      8.2545E-08   163.0       91.63       163.0       91.63           V-C  1.6003E+05   331.4       60.98
1.000       1.000       152.6       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  40 D   31.15      6.7530E-08   165.0       92.75       165.0       92.75           V-C  1.6003E+05   331.2       62.99
1.000       1.000       155.7       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  41 D   29.70      1.2090E-07   167.0       83.51       167.0       83.51           V-C  8.1593E+04   331.0       65.00
1.000       1.000       148.5       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  42 D   30.35      1.1744E-07   169.5       84.76       169.5       84.76           V-C  8.1593E+04   330.8       67.00
1.000       1.000       151.8       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  43 D   31.00      1.1399E-07   172.0       86.01       172.0       86.01           V-C  8.1593E+04   330.6       69.00
1.000       1.000       155.0       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  44 D   31.65      1.1053E-07   174.5       87.26       174.5       87.26           V-C  8.1593E+04   330.4       71.00
1.000       1.000       158.3       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  45 D   32.30      1.0708E-07   177.0       88.51       177.0       88.51           V-C  8.1593E+04   330.2       73.01
1.000       1.000       161.5       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  46 D   32.95      1.0363E-07   179.5       89.76       179.5       89.76           V-C  8.1593E+04   330.0       75.01
1.000       1.000       164.8       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  47 D   33.60      1.0017E-07   182.0       91.01       182.0       91.01           V-C  8.1593E+04   329.8       77.01
1.000       1.000       168.0       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  48 D   34.25      9.6715E-08   184.5       92.26       184.5       92.26           V-C  8.1593E+04   329.6       79.01
1.000       1.000       171.3       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  49 D   34.90      9.3261E-08   187.0       93.51       187.0       93.51           V-C  8.1593E+04   329.4       81.01
1.000       1.000       174.5       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  50 D   35.55      8.9806E-08   189.5       94.76       189.5       94.76           V-C  8.1593E+04   329.2       83.01
1.000       1.000       177.8       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  51 D   36.20      8.6352E-08   192.0       96.01       192.0       96.01           V-C  8.1593E+04   329.0       85.01
1.000       1.000       181.0       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  52 D   36.85      8.2897E-08   194.5       97.26       194.5       97.26           V-C  8.1593E+04   328.8       87.01
1.000       1.000       184.3       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
```

53 D	37.50	7.9443E-08	197.0	98.51	197.0	98.51	V-C	8.1593E+04	328.6	89.01
1.000	1.000	187.5	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
54 D	38.15	7.5988E-08	199.5	99.76	199.5	99.76	V-C	8.1593E+04	328.4	91.01
1.000	1.000	190.8	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
55 D	38.80	7.2532E-08	202.0	101.0	202.0	101.0	V-C	8.1593E+04	328.2	93.02
1.000	1.000	194.0	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
56 D	39.45	6.9078E-08	204.5	102.3	204.5	102.3	V-C	8.1593E+04	328.0	95.02
1.000	1.000	197.3	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
57 D	40.10	6.5623E-08	207.0	103.5	207.0	103.5	V-C	8.1593E+04	327.8	97.02
1.000	1.000	200.5	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
58 D	40.75	6.2169E-08	209.5	104.8	209.5	104.8	V-C	8.1593E+04	327.6	99.02
1.000	1.000	203.8	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
59 D	41.40	5.8714E-08	212.0	106.0	212.0	106.0	V-C	8.1593E+04	327.4	101.0
1.000	1.000	207.0	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
60 D	42.05	5.5260E-08	214.5	107.3	214.5	107.3	V-C	8.1593E+04	327.2	103.0
1.000	1.000	210.3	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
61 D	42.70	5.1805E-08	217.0	108.5	217.0	108.5	V-C	8.1593E+04	327.0	105.0
1.000	1.000	213.5	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
62 D	43.35	4.8351E-08	219.5	109.8	219.5	109.8	V-C	8.1593E+04	326.8	107.0
1.000	1.000	216.8	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
63 D	44.01	4.4895E-08	222.0	111.0	222.0	111.0	V-C	8.1593E+04	326.6	109.0
1.000	1.000	220.0	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
64 D	44.66	4.1440E-08	224.5	112.2	224.5	112.2	V-C	8.1593E+04	326.4	111.0
1.000	1.000	223.3	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
65 D	45.31	3.7986E-08	227.0	113.5	227.0	113.5	V-C	8.1593E+04	326.2	113.0
1.000	1.000	226.5	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
66 D	45.96	3.4531E-08	229.5	114.7	229.5	114.7	V-C	8.1593E+04	326.0	115.0
1.000	1.000	229.8	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
67 D	46.61	3.1077E-08	232.0	116.0	232.0	116.0	V-C	8.1593E+04	325.8	117.0
1.000	1.000	233.0	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
68 D	47.26	2.7622E-08	234.5	117.2	234.5	117.2	V-C	8.1593E+04	325.6	119.0
1.000	1.000	236.3	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
69 D	47.91	2.4168E-08	237.0	118.5	237.0	118.5	V-C	8.1593E+04	325.4	121.0
1.000	1.000	239.5	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
70 D	48.56	2.0713E-08	239.5	119.7	239.5	119.7	V-C	8.1593E+04	325.2	123.0
1.000	1.000	242.8	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
71 D	49.21	1.7257E-08	242.0	121.0	242.0	121.0	V-C	8.1593E+04	325.0	125.0
1.000	1.000	246.0	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
72 D	49.86	1.3802E-08	244.5	122.2	244.5	122.2	V-C	8.1593E+04	324.8	127.0
1.000	1.000	249.3	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
73 D	50.51	1.0348E-08	247.0	123.5	247.0	123.5	V-C	8.1593E+04	324.6	129.0
1.000	1.000	252.5	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
74 D	51.16	6.8934E-09	249.5	124.7	249.5	124.7	V-C	8.1593E+04	324.4	131.0
1.000	1.000	255.8	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
75 D	51.81	3.4389E-09	252.0	126.0	252.0	126.0	V-C	8.1593E+04	324.2	133.0
1.000	1.000	259.0	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
76 D	26.23	9.9465E-19	254.5	127.2	254.5	127.2	V-C	8.1593E+04	324.0	135.0
1.000	1.000	262.3	0.000	0.000	0.000	0.000	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						

```
+-----------------------------------------------------------------------------------------------------------------------------+
|                   PARATIEPLUS(TM)   NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*                  |
|                                                                                                                             |
|                                                ParatiePlus                                                                  |
|                                    Exe Time :28 January 2022   16:22:48                                                     |
+-----------------------------------------------------------------------------------------------------------------------------+
New Project


S T R E S S   R E S U L T S   F O R   G R O U P   N O.   2

0_R                                                    :
ELEMENT TYPE    5 NO.OF ELEMENTS. IN THIS GROUP   76
C U R R E N T   T I M E   I S      1.0000 SUBINCREMENT 00001/00001

 HARDENING 2D SOIL ELEMENT

 ****** TOTAL STRESS FORMULATION *****

  EL *   FORCE      DISPL-Y  VERTICAL-P  HORIZON.-P     MAX-V-P     MAX-H-P          STATE   STIFFNESS Z-LEVEL      PORE       E FAC-
TOR    UFACTOR       Peq          Su_a        Su_p        Cohe_a      Cohe_p     LAYER                              ZFO         QS
QSL          ZD          ZPL          Kz
 ------------------------------------------------------------------------------------------------------------------------------
-----------------------------------------------------------------------------------------------------------------------------
-----------------------------------------------
   1 D   3.800       0.000       76.00       38.00       76.00       38.00           V-C  2.2631E+04   339.0       0.000
1.000       1.000       38.00       0.000       0.000       0.000       0.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   2 D   7.980       0.000       79.80       39.90       79.80       39.90           V-C  2.2631E+04   338.8       0.000
1.000       1.000       39.90       0.000       0.000       0.000       0.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   3 D   8.360       0.000       83.60       41.80       83.60       41.80           V-C  2.2631E+04   338.6       0.000
1.000       1.000       41.80       0.000       0.000       0.000       0.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   4 D   8.740       0.000       87.40       43.70       87.40       43.70           V-C  2.2631E+04   338.4       0.000
1.000       1.000       43.70       0.000       0.000       0.000       0.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   5 D   9.120       0.000       91.20       45.60       91.20       45.60           V-C  2.2631E+04   338.2       0.000
1.000       1.000       45.60       0.000       0.000       0.000       0.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   6 D   9.500       0.000       95.00       47.50       95.00       47.50           V-C  2.2631E+04   338.0       0.000
1.000       1.000       47.50       0.000       0.000       0.000       0.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   7 D   9.880       0.000       98.80       49.40       98.80       49.40           V-C  2.2631E+04   337.8       0.000
1.000       1.000       49.40       0.000       0.000       0.000       0.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   8 D   10.26       0.000       102.6       51.30       102.6       51.30           V-C  2.2631E+04   337.6       0.000
1.000       1.000       51.30       0.000       0.000       0.000       0.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   9 D   10.73     -3.1528E-06   105.0       52.31       105.0       52.52          UL-RL  6.7893E+04   337.4       1.355
1.000       1.000       53.66       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  10 D   11.31     -3.0640E-06   106.9       53.22       106.9       53.43          UL-RL  6.7893E+04   337.2       3.346
1.000       1.000       56.57       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  11 D   11.89     -2.9752E-06   108.7       54.13       108.7       54.33          UL-RL  6.7893E+04   337.0       5.337
1.000       1.000       59.47       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  12 D   12.47     -2.8864E-06   110.5       55.04       110.5       55.24          UL-RL  6.7893E+04   336.8       7.328
1.000       1.000       62.37       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  13 D   13.05     -2.7976E-06   112.3       55.95       112.3       56.14          UL-RL  6.7893E+04   336.6       9.319
1.000       1.000       65.27       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  14 D   13.63     -2.7087E-06   114.1       56.86       114.1       57.05          UL-RL  6.7893E+04   336.4       11.31
1.000       1.000       68.17       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  15 D   14.21     -2.6199E-06   115.9       57.77       115.9       57.95          UL-RL  6.7893E+04   336.2       13.30
1.000       1.000       71.07       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  16 D   14.80     -2.5311E-06   117.7       58.68       117.7       58.86          UL-RL  6.7893E+04   336.0       15.29
1.000       1.000       73.98       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  17 D   15.38     -2.4423E-06   119.5       59.59       119.5       59.76          UL-RL  6.7893E+04   335.8       17.28
1.000       1.000       76.88       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  18 D   15.96     -2.3535E-06   121.3       60.51       121.3       60.67          UL-RL  6.7893E+04   335.6       19.27
1.000       1.000       79.78       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  19 D   16.54     -2.2647E-06   123.1       61.42       123.1       61.57          UL-RL  6.7893E+04   335.4       21.26
1.000       1.000       82.68       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  20 D   17.12     -2.1758E-06   124.9       62.33       124.9       62.47          UL-RL  6.7893E+04   335.2       23.26
1.000       1.000       85.58       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  21 D   19.27     -3.5284E-07   126.8       71.11       126.8       71.24          UL-RL  3.7492E+05   335.0       25.25
1.000       1.000       96.35       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  22 D   19.90     -3.3781E-07   128.8       72.24       128.8       72.37          UL-RL  3.7492E+05   334.8       27.24
```

```
1.000       1.000       99.48       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  23 D   20.52     -3.2280E-07   130.8       73.38       130.8       73.50          UL-RL  3.7492E+05   334.6       29.23
1.000       1.000       102.6       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  24 D   21.15     -3.0778E-07   132.8       74.51       132.8       74.63          UL-RL  3.7492E+05   334.4       31.22
1.000       1.000       105.7       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  25 D   21.77     -2.9277E-07   134.8       75.65       134.8       75.76          UL-RL  3.7492E+05   334.2       33.21
1.000       1.000       108.9       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  26 D   22.40     -2.7775E-07   136.8       76.78       136.8       76.88          UL-RL  3.7492E+05   334.0       35.20
1.000       1.000       112.0       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  27 D   23.02     -2.6274E-07   138.8       77.91       138.8       78.01          UL-RL  3.7492E+05   333.8       37.19
1.000       1.000       115.1       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  28 D   23.65     -2.4772E-07   140.8       79.05       140.8       79.14          UL-RL  3.7492E+05   333.6       39.18
1.000       1.000       118.2       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  29 D   24.27     -2.3271E-07   142.8       80.18       142.8       80.27          UL-RL  3.7492E+05   333.4       41.17
1.000       1.000       121.4       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  30 D   24.90     -2.1769E-07   144.8       81.32       144.8       81.40          UL-RL  3.7492E+05   333.2       43.17
1.000       1.000       124.5       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  31 D   25.52     -2.0267E-07   146.9       82.45       146.9       82.53          UL-RL  3.7492E+05   333.0       45.16
1.000       1.000       127.6       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  32 D   26.15     -1.8766E-07   148.9       83.59       148.9       83.66          UL-RL  3.7492E+05   332.8       47.15
1.000       1.000       130.7       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  33 D   26.77     -1.7264E-07   150.9       84.72       150.9       84.79          UL-RL  3.7492E+05   332.6       49.14
1.000       1.000       133.9       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  34 D   27.40     -1.5763E-07   152.9       85.86       152.9       85.92          UL-RL  3.7492E+05   332.4       51.13
1.000       1.000       137.0       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  35 D   28.02     -1.4261E-07   154.9       86.99       154.9       87.05          UL-RL  3.7492E+05   332.2       53.12
1.000       1.000       140.1       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  36 D   28.65     -1.2760E-07   156.9       88.13       156.9       88.18          UL-RL  3.7492E+05   332.0       55.11
1.000       1.000       143.2       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  37 D   29.27     -1.1258E-07   158.9       89.26       158.9       89.31          UL-RL  3.7492E+05   331.8       57.10
1.000       1.000       146.4       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  38 D   29.90     -9.7560E-08   160.9       90.40       160.9       90.44          UL-RL  3.7492E+05   331.6       59.09
1.000       1.000       149.5       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  39 D   30.52     -8.2545E-08   162.9       91.53       162.9       91.56          UL-RL  3.7492E+05   331.4       61.08
1.000       1.000       152.6       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  40 D   31.15     -6.7530E-08   164.9       92.67       164.9       92.69          UL-RL  3.7492E+05   331.2       63.07
1.000       1.000       155.7       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  41 D   29.70     -1.2090E-07   166.9       83.45       166.9       83.47          UL-RL  1.8384E+05   331.0       65.07
1.000       1.000       148.5       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  42 D   30.35     -1.1744E-07   169.4       84.70       169.4       84.72          UL-RL  1.8384E+05   330.8       67.06
1.000       1.000       151.8       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  43 D   31.00     -1.1399E-07   171.9       85.95       171.9       85.97          UL-RL  1.8384E+05   330.6       69.06
1.000       1.000       155.0       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  44 D   31.65     -1.1053E-07   174.4       87.20       174.4       87.22          UL-RL  1.8384E+05   330.4       71.06
1.000       1.000       158.3       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  45 D   32.30     -1.0708E-07   176.9       88.45       176.9       88.47          UL-RL  1.8384E+05   330.2       73.06
1.000       1.000       161.5       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  46 D   32.95     -1.0363E-07   179.5       89.71       179.5       89.73          UL-RL  1.8384E+05   330.0       75.06
1.000       1.000       164.8       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  47 D   33.60     -1.0017E-07   182.0       90.96       182.0       90.98          UL-RL  1.8384E+05   329.8       77.06
1.000       1.000       168.0       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  48 D   34.25     -9.6715E-08   184.5       92.21       184.5       92.23          UL-RL  1.8384E+05   329.6       79.06
1.000       1.000       171.3       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  49 D   34.90     -9.3261E-08   187.0       93.46       187.0       93.48          UL-RL  1.8384E+05   329.4       81.06
1.000       1.000       174.5       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  50 D   35.55     -8.9806E-08   189.5       94.71       189.5       94.73          UL-RL  1.8384E+05   329.2       83.06
1.000       1.000       177.8       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  51 D   36.20     -8.6352E-08   192.0       95.96       192.0       95.98          UL-RL  1.8384E+05   329.0       85.06
1.000       1.000       181.0       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  52 D   36.85     -8.2897E-08   194.5       97.21       194.5       97.23          UL-RL  1.8384E+05   328.8       87.06
1.000       1.000       184.3       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
```

53 D	37.50	-7.9443E-08	197.0	98.46	197.0	98.48	UL-RL	1.8384E+05	328.6	89.06
1.000	1.000	187.5	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
54 D	38.15	-7.5988E-08	199.5	99.72	199.5	99.73	UL-RL	1.8384E+05	328.4	91.05
1.000	1.000	190.8	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
55 D	38.80	-7.2532E-08	202.0	101.0	202.0	101.0	UL-RL	1.8384E+05	328.2	93.05
1.000	1.000	194.0	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
56 D	39.45	-6.9078E-08	204.5	102.2	204.5	102.2	UL-RL	1.8384E+05	328.0	95.05
1.000	1.000	197.3	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
57 D	40.10	-6.5623E-08	207.0	103.5	207.0	103.5	UL-RL	1.8384E+05	327.8	97.05
1.000	1.000	200.5	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
58 D	40.75	-6.2169E-08	209.5	104.7	209.5	104.7	UL-RL	1.8384E+05	327.6	99.05
1.000	1.000	203.8	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
59 D	41.40	-5.8714E-08	212.0	106.0	212.0	106.0	UL-RL	1.8384E+05	327.4	101.1
1.000	1.000	207.0	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
60 D	42.05	-5.5260E-08	214.5	107.2	214.5	107.2	UL-RL	1.8384E+05	327.2	103.1
1.000	1.000	210.3	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
61 D	42.70	-5.1805E-08	217.0	108.5	217.0	108.5	UL-RL	1.8384E+05	327.0	105.0
1.000	1.000	213.5	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
62 D	43.35	-4.8351E-08	219.5	109.7	219.5	109.7	UL-RL	1.8384E+05	326.8	107.0
1.000	1.000	216.8	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
63 D	44.01	-4.4895E-08	222.0	111.0	222.0	111.0	UL-RL	1.8384E+05	326.6	109.0
1.000	1.000	220.0	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
64 D	44.66	-4.1440E-08	224.5	112.2	224.5	112.2	UL-RL	1.8384E+05	326.4	111.0
1.000	1.000	223.3	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
65 D	45.31	-3.7986E-08	227.0	113.5	227.0	113.5	UL-RL	1.8384E+05	326.2	113.0
1.000	1.000	226.5	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
66 D	45.96	-3.4531E-08	229.5	114.7	229.5	114.7	UL-RL	1.8384E+05	326.0	115.0
1.000	1.000	229.8	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
67 D	46.61	-3.1077E-08	232.0	116.0	232.0	116.0	UL-RL	1.8384E+05	325.8	117.0
1.000	1.000	233.0	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
68 D	47.26	-2.7622E-08	234.5	117.2	234.5	117.2	UL-RL	1.8384E+05	325.6	119.0
1.000	1.000	236.3	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
69 D	47.91	-2.4168E-08	237.0	118.5	237.0	118.5	UL-RL	1.8384E+05	325.4	121.0
1.000	1.000	239.5	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
70 D	48.56	-2.0713E-08	239.5	119.7	239.5	119.7	UL-RL	1.8384E+05	325.2	123.0
1.000	1.000	242.8	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
71 D	49.21	-1.7257E-08	242.0	121.0	242.0	121.0	UL-RL	1.8384E+05	325.0	125.0
1.000	1.000	246.0	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
72 D	49.86	-1.3802E-08	244.5	122.2	244.5	122.2	UL-RL	1.8384E+05	324.8	127.0
1.000	1.000	249.3	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
73 D	50.51	-1.0348E-08	247.0	123.5	247.0	123.5	UL-RL	1.8384E+05	324.6	129.0
1.000	1.000	252.5	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
74 D	51.16	-6.8934E-09	249.5	124.7	249.5	124.7	UL-RL	1.8384E+05	324.4	131.0
1.000	1.000	255.8	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
75 D	51.81	-3.4389E-09	252.0	126.0	252.0	126.0	UL-RL	1.8384E+05	324.2	133.0
1.000	1.000	259.0	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
76 D	26.23	-9.9465E-19	254.5	127.2	254.5	127.2	V-C	6.1280E+04	324.0	135.0
1.000	1.000	262.3	0.000	0.000	0.000	0.000	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						

```
+-----------------------------------------------------------------------------------------------------------------------+
|                   PARATIEPLUS(TM)   NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*             |
|                                                                                                                       |
|                                                ParatiePlus                                                            |
|                                 Exe Time :28 January 2022   16:22:48                                                  |
+-----------------------------------------------------------------------------------------------------------------------+
New Project


S T R E S S   R E S U L T S   F O R   G R O U P   N O.   3

Pali1500_253215                                              :
ELEMENT TYPE    2 NO.OF ELEMENTS. IN THIS GROUP   75
C U R R E N T   T I M E   I S      1.0000 SUBINCREMENT 00001/00001

 WALL2D ELEMENT

   EL      TA          TB          MA          MB
-------------------------------------------------

***** NO ONE ELEMENT ACTIVE AT CURRENT STEP *****

ITER     0 RNORM = 0.000     RMNORM= 0.000
           RINORM=0.1166E+06 RIMNOR= 0.000
           RENORM=0.1892E-01 REMNOR= 0.000     RATIO =0.4029E-03 TOLER =0.1000E-03  NOT CONVERGED
           RFMAX = 47.65     RMMAX = 0.000
           RTSMAL=0.1000E-03 RMSMAL= 0.000
           RDT   =0.1166E+06 RDR   = 0.000
           RATIOT=0.4029E-03 RATIOR= 0.000
           MAX UN=0.4135E-01 IEQ=    17 NODE      9 DOF   1  Y-DISPL.F
           MIN UN= 0.000     IEQ=     1 NODE      1 DOF   1  Y-DISPL.F
           NO. OF CONTACT CONSTRAINT VIOLATIONS     0


ITER     2 RNORM = 0.000     RMNORM= 0.000
           RINORM=0.1166E+06 RIMNOR= 0.000
           RENORM=0.3436E-22 REMNOR=0.1559E-24 RATIO =0.1717E-13 TOLER =0.1000E-03      CONVERGED !
           RFMAX = 47.65     RMMAX = 0.000
           RTSMAL=0.1000E-03 RMSMAL= 0.000
           RDT   =0.1166E+06 RDR   = 0.000
           RATIOT=0.1717E-13 RATIOR= 0.000
           MAX UN=0.2430E-11 IEQ=    31 NODE     16 DOF   1  Y-DISPL.F
           MIN UN=-.2402E-11 IEQ=    29 NODE     15 DOF   1  Y-DISPL.F
           NO. OF CONTACT CONSTRAINT VIOLATIONS     0
```

```
+-----------------------------------------------------------------------------------------------------------------------+
|                  PARATIEPLUS(TM)   NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*             |
|                                                                                                                       |
|                                                ParatiePlus                                                            |
|                                  Exe Time :28 January 2022   16:22:48                                                 |
+-----------------------------------------------------------------------------------------------------------------------+
New Project
SOLUTION REACHED USING     2 ITERATIONS ON   80

P R I N T   O U T   F O R   T I M E   S T E P   2     ( AT TIME   2.000     ) SUBINCREMENT 00001/00001

PRINT OUT OF ACTIVE COMPONENTS (FIXED NODES ARE NOT PRINTED OUT)

          Y-DISPL.F        X-ROT. F
            02               04
    1   4.5879150E-07  -1.6006488E-08
    2   4.5558910E-07  -1.6023025E-08
    3   4.5237448E-07  -1.6156784E-08
    4   4.4910739E-07  -1.6575461E-08
    5   4.4571420E-07  -1.7445559E-08
    6   4.4208616E-07  -1.8933268E-08
    7   4.3808710E-07  -2.1201075E-08
    8   4.3354285E-07  -2.4412114E-08
    9  -2.7245883E-06  -2.8727373E-08
   10  -2.6420411E-06  -3.4086484E-08
   11  -2.5606471E-06  -4.0215649E-08
   12  -2.4805342E-06  -4.6854664E-08
   13  -2.4017793E-06  -5.3755789E-08
   14  -2.3243728E-06  -6.0686131E-08
   15  -2.2483743E-06  -6.7412841E-08
   16  -2.1736830E-06  -7.3722978E-08
   17  -2.1001947E-06  -7.9408758E-08
   18  -2.0277645E-06  -8.4270273E-08
   19  -1.9562079E-06  -8.8114815E-08
   20  -1.8853031E-06  -9.0756289E-08
   21  -8.0598573E-08  -9.2014738E-08
   22  -8.3999248E-08  -9.1918535E-08
   23  -8.7262325E-08  -9.0691451E-08
   24  -9.0183950E-08  -8.8535917E-08
   25  -9.2596877E-08  -8.5632886E-08
   26  -9.4367982E-08  -8.2142737E-08
   27  -9.5394232E-08  -7.8206209E-08
   28  -9.5598876E-08  -7.3945560E-08
   29  -9.4927875E-08  -6.9465909E-08
   30  -9.3345599E-08  -6.4854374E-08
   31  -9.0835467E-08  -6.0190889E-08
   32  -8.7392546E-08  -5.5535990E-08
   33  -8.3023917E-08  -5.0941634E-08
   34  -7.7746104E-08  -4.6450565E-08
   35  -7.1583392E-08  -4.2097938E-08
   36  -6.4566472E-08  -3.7912920E-08
   37  -5.6731400E-08  -3.3920237E-08
   38  -4.8114366E-08  -3.0139841E-08
   39  -3.8768866E-08  -2.6595780E-08
   40  -2.8739664E-08  -2.3306217E-08
   41  -8.6463253E-08  -2.0292368E-08
   42  -8.6789478E-08  -1.7561181E-08
   43  -8.6596972E-08  -1.5103319E-08
   44  -8.5939292E-08  -1.2907383E-08
   45  -8.4867544E-08  -1.0960353E-08
   46  -8.3430102E-08  -9.2479891E-09
   47  -8.1671449E-08  -7.7544873E-09
   48  -7.9635712E-08  -6.4656729E-09
   49  -7.7361272E-08  -5.3647914E-09
   50  -7.4884115E-08  -4.4358342E-09
   51  -7.2237035E-08  -3.6629394E-09
   52  -6.9449683E-08  -3.0305603E-09
   53  -6.6548645E-08  -2.5236061E-09
   54  -6.3557544E-08  -2.1275572E-09
   55  -6.0495618E-08  -1.8284302E-09
   56  -5.7384021E-08  -1.6134036E-09
   57  -5.4236778E-08  -1.4699752E-09
   58  -5.1067043E-08  -1.3866448E-09
   59  -4.7885757E-08  -1.3527685E-09
   60  -4.4701820E-08  -1.3585744E-09
   61  -4.1522264E-08  -1.3951688E-09
   62  -3.8352431E-08  -1.4545360E-09
   63  -3.5194571E-08  -1.5295729E-09
   64  -3.2054326E-08  -1.6139221E-09
   65  -2.8931426E-08  -1.7021844E-09
   66  -2.5826179E-08  -1.7897596E-09
   67  -2.2738056E-08  -1.8728653E-09
   68  -1.9665853E-08  -1.9485219E-09
   69  -1.6607847E-08  -2.0145373E-09
   70  -1.3561955E-08  -2.0694943E-09
   71  -1.0524373E-08  -2.1127577E-09
   72  -7.4957887E-09  -2.1443837E-09
   73  -4.4724331E-09  -2.1652431E-09
   74  -1.4522988E-09  -2.1769231E-09
```

```
75   1.5662299E-09  -2.1817481E-09
76   4.5706495E-09  -2.1827789E-09
```

```
+-----------------------------------------------------------------------------------------------------------------------------+
|                  PARATIEPLUS(TM)   NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*                    |
|                                                                                                                             |
|                                              ParatiePlus                                                                    |
|                                    Exe Time :28 January 2022   16:22:48                                                     |
+-----------------------------------------------------------------------------------------------------------------------------+
New Project


S T R E S S   R E S U L T S   F O R   G R O U P   N O.   1

0_L                                                    :
ELEMENT TYPE    5 NO.OF ELEMENTS. IN THIS GROUP   76
C U R R E N T   T I M E   I S      2.0000 SUBINCREMENT 00001/00001

 HARDENING 2D SOIL ELEMENT

 ****** TOTAL STRESS FORMULATION *****

  EL *   FORCE      DISPL-Y  VERTICAL-P  HORIZON.-P     MAX-V-P     MAX-H-P          STATE   STIFFNESS Z-LEVEL      PORE       E FAC-
TOR    UFACTOR       Peq          Su_a        Su_p        Cohe_a      Cohe_p     LAYER                                ZFO         QS
QSL          ZD          ZPL          Kz
 ------------------------------------------------------------------------------------------------------------------------------------
------------------------------------------------------------------------------------------------------------------------------------
-----------------------------------------------
   1 D   0.000     -4.5879E-07   0.000       0.000       76.00       38.00          ACTIVE   0.000       339.0       0.000
1.000       1.000       0.000       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   2 D   1.732     -4.5559E-07   3.800       8.659       79.80       39.90          UL-RL  1.0605E+05   338.8       0.000
1.000       1.000       8.659       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   3 D   2.511     -4.5237E-07   7.600       12.56       83.60       41.80          UL-RL  1.0605E+05   338.6       0.000
1.000       1.000       12.56       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   4 D   3.147     -4.4911E-07   11.40       15.73       87.40       43.70          UL-RL  1.0605E+05   338.4       0.000
1.000       1.000       15.73       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   5 D   3.714     -4.4571E-07   15.20       18.57       91.20       45.60          UL-RL  1.0605E+05   338.2       0.000
1.000       1.000       18.57       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   6 D   4.239     -4.4209E-07   19.00       21.20       95.00       47.50          UL-RL  1.0605E+05   338.0       0.000
1.000       1.000       21.20       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   7 D   4.737     -4.3809E-07   22.80       23.69       98.80       49.40          UL-RL  1.0605E+05   337.8       0.000
1.000       1.000       23.69       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   8 D   5.215     -4.3354E-07   26.60       26.08       102.6       51.30          UL-RL  1.0605E+05   337.6       0.000
1.000       1.000       26.08       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   9 D   5.757      2.7246E-06   29.70       28.08       105.7       52.96          UL-RL  1.0605E+05   337.4       0.7029
1.000       1.000       28.78       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  10 D   6.373      2.6420E-06   31.49       29.15       107.5       53.85          UL-RL  1.0605E+05   337.2       2.708
1.000       1.000       31.86       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  11 D   6.986      2.5606E-06   33.29       30.22       109.3       54.74          UL-RL  1.0605E+05   337.0       4.714
1.000       1.000       34.93       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  12 D   7.598      2.4805E-06   35.08       31.27       111.1       55.64          UL-RL  1.0605E+05   336.8       6.719
1.000       1.000       37.99       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  13 D   8.208      2.4018E-06   36.88       32.31       112.9       56.53          UL-RL  1.0605E+05   336.6       8.725
1.000       1.000       41.04       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  14 D   8.816      2.3244E-06   38.67       33.35       114.7       57.42          UL-RL  1.0605E+05   336.4       10.73
1.000       1.000       44.08       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  15 D   9.422      2.2484E-06   40.47       34.38       116.4       58.31          UL-RL  1.0605E+05   336.2       12.74
1.000       1.000       47.11       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  16 D   10.03      2.1737E-06   42.26       35.40       118.2       59.21          UL-RL  1.0605E+05   336.0       14.74
1.000       1.000       50.14       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  17 D   10.63      2.1002E-06   44.06       36.41       120.0       60.10          UL-RL  1.0605E+05   335.8       16.75
1.000       1.000       53.16       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  18 D   11.23      2.0278E-06   45.85       37.42       121.8       60.99          UL-RL  1.0605E+05   335.6       18.75
1.000       1.000       56.17       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  19 D   11.84      1.9562E-06   47.65       38.42       123.6       61.88          UL-RL  1.0605E+05   335.4       20.76
1.000       1.000       59.18       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  20 D   12.44      1.8853E-06   49.44       39.41       125.4       62.78          UL-RL  1.0605E+05   335.2       22.76
1.000       1.000       62.18       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  21 D   14.01      8.0599E-08   51.23       45.29       127.2       71.54          UL-RL  4.8010E+05   335.0       24.77
1.000       1.000       70.06       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  22 D   14.66      8.3999E-08   53.23       46.54       129.2       72.65          UL-RL  4.8010E+05   334.8       26.78
```

```
1.000       1.000       73.31       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  23 D   15.31      8.7262E-08   55.22       47.77       131.2       73.77          UL-RL  4.8010E+05   334.6       28.78
1.000       1.000       76.55       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  24 D   15.96      9.0184E-08   57.22       49.00       133.2       74.89          UL-RL  4.8010E+05   334.4       30.79
1.000       1.000       79.79       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  25 D   16.60      9.2597E-08   59.21       50.23       135.2       76.00          UL-RL  4.8010E+05   334.2       32.79
1.000       1.000       83.02       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  26 D   17.25      9.4368E-08   61.21       51.45       137.1       77.12          UL-RL  4.8010E+05   334.0       34.80
1.000       1.000       86.25       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  27 D   17.89      9.5394E-08   63.20       52.66       139.1       78.24          UL-RL  4.8010E+05   333.8       36.80
1.000       1.000       89.47       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  28 D   18.54      9.5599E-08   65.20       53.87       141.1       79.35          UL-RL  4.8010E+05   333.6       38.81
1.000       1.000       92.68       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  29 D   19.18      9.4928E-08   67.19       55.08       143.1       80.47          UL-RL  4.8010E+05   333.4       40.81
1.000       1.000       95.90       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  30 D   19.82      9.3346E-08   69.19       56.29       145.1       81.59          UL-RL  4.8010E+05   333.2       42.82
1.000       1.000       99.11       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  31 D   20.46      9.0835E-08   71.18       57.49       147.1       82.70          UL-RL  4.8010E+05   333.0       44.83
1.000       1.000       102.3       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  32 D   21.10      8.7393E-08   73.18       58.68       149.1       83.82          UL-RL  4.8010E+05   332.8       46.83
1.000       1.000       105.5       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  33 D   21.74      8.3024E-08   75.17       59.88       151.1       84.93          UL-RL  4.8010E+05   332.6       48.84
1.000       1.000       108.7       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  34 D   22.38      7.7746E-08   77.17       61.07       153.1       86.05          UL-RL  4.8010E+05   332.4       50.84
1.000       1.000       111.9       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  35 D   23.02      7.1583E-08   79.16       62.25       155.1       87.17          UL-RL  4.8010E+05   332.2       52.85
1.000       1.000       115.1       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  36 D   23.66      6.4566E-08   81.15       63.44       157.1       88.28          UL-RL  4.8010E+05   332.0       54.85
1.000       1.000       118.3       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  37 D   24.30      5.6731E-08   83.15       64.62       159.0       89.40          UL-RL  4.8010E+05   331.8       56.86
1.000       1.000       121.5       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  38 D   24.93      4.8114E-08   85.14       65.80       161.0       90.52          UL-RL  4.8010E+05   331.6       58.87
1.000       1.000       124.7       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  39 D   25.57      3.8769E-08   87.14       66.98       163.0       91.63          UL-RL  4.8010E+05   331.4       60.87
1.000       1.000       127.8       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  40 D   26.21      2.8740E-08   89.13       68.15       165.0       92.75          UL-RL  4.8010E+05   331.2       62.88
1.000       1.000       131.0       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  41 D   25.31      8.6463E-08   91.13       61.69       167.0       83.51          UL-RL  2.4478E+05   331.0       64.88
1.000       1.000       126.6       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  42 D   25.97      8.6789E-08   93.63       62.99       169.5       84.76          UL-RL  2.4478E+05   330.8       66.88
1.000       1.000       129.9       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  43 D   26.64      8.6597E-08   96.13       64.30       172.0       86.01          UL-RL  2.4478E+05   330.6       68.88
1.000       1.000       133.2       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  44 D   27.30      8.5939E-08   98.63       65.60       174.5       87.26          UL-RL  2.4478E+05   330.4       70.88
1.000       1.000       136.5       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  45 D   27.96      8.4868E-08   101.1       66.90       177.0       88.51          UL-RL  2.4478E+05   330.2       72.88
1.000       1.000       139.8       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  46 D   28.62      8.3430E-08   103.6       68.20       179.5       89.76          UL-RL  2.4478E+05   330.0       74.88
1.000       1.000       143.1       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  47 D   29.28      8.1671E-08   106.1       69.49       182.0       91.01          UL-RL  2.4478E+05   329.8       76.89
1.000       1.000       146.4       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  48 D   29.94      7.9636E-08   108.6       70.79       184.5       92.26          UL-RL  2.4478E+05   329.6       78.89
1.000       1.000       149.7       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  49 D   30.59      7.7361E-08   111.1       72.08       187.0       93.51          UL-RL  2.4478E+05   329.4       80.89
1.000       1.000       153.0       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  50 D   31.25      7.4884E-08   113.6       73.37       189.5       94.76          UL-RL  2.4478E+05   329.2       82.89
1.000       1.000       156.3       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  51 D   31.91      7.2237E-08   116.1       74.66       192.0       96.01          UL-RL  2.4478E+05   329.0       84.89
1.000       1.000       159.6       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  52 D   32.57      6.9450E-08   118.6       75.95       194.5       97.26          UL-RL  2.4478E+05   328.8       86.89
1.000       1.000       162.8       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
```

53 D	33.23	6.6549E-08	121.1	77.24	197.0	98.51	UL-RL	2.4478E+05	328.6	88.89
1.000	1.000	166.1	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
54 D	33.88	6.3558E-08	123.6	78.53	199.5	99.76	UL-RL	2.4478E+05	328.4	90.89
1.000	1.000	169.4	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
55 D	34.54	6.0496E-08	126.1	79.81	202.0	101.0	UL-RL	2.4478E+05	328.2	92.89
1.000	1.000	172.7	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
56 D	35.20	5.7384E-08	128.6	81.09	204.5	102.3	UL-RL	2.4478E+05	328.0	94.89
1.000	1.000	176.0	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
57 D	35.85	5.4237E-08	131.1	82.38	207.0	103.5	UL-RL	2.4478E+05	327.8	96.89
1.000	1.000	179.3	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
58 D	36.51	5.1067E-08	133.6	83.66	209.5	104.8	UL-RL	2.4478E+05	327.6	98.89
1.000	1.000	182.6	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
59 D	37.17	4.7886E-08	136.1	84.94	212.0	106.0	UL-RL	2.4478E+05	327.4	100.9
1.000	1.000	185.8	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
60 D	37.82	4.4702E-08	138.6	86.22	214.5	107.3	UL-RL	2.4478E+05	327.2	102.9
1.000	1.000	189.1	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
61 D	38.48	4.1522E-08	141.1	87.50	217.0	108.5	UL-RL	2.4478E+05	327.0	104.9
1.000	1.000	192.4	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
62 D	39.13	3.8352E-08	143.6	88.78	219.5	109.8	UL-RL	2.4478E+05	326.8	106.9
1.000	1.000	195.7	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
63 D	39.79	3.5195E-08	146.1	90.05	222.0	111.0	UL-RL	2.4478E+05	326.6	108.9
1.000	1.000	199.0	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
64 D	40.45	3.2054E-08	148.6	91.33	224.5	112.2	UL-RL	2.4478E+05	326.4	110.9
1.000	1.000	202.2	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
65 D	41.10	2.8931E-08	151.1	92.61	227.0	113.5	UL-RL	2.4478E+05	326.2	112.9
1.000	1.000	205.5	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
66 D	41.76	2.5826E-08	153.6	93.88	229.5	114.7	UL-RL	2.4478E+05	326.0	114.9
1.000	1.000	208.8	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
67 D	42.41	2.2738E-08	156.1	95.16	232.0	116.0	UL-RL	2.4478E+05	325.8	116.9
1.000	1.000	212.1	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
68 D	43.07	1.9666E-08	158.6	96.43	234.5	117.2	UL-RL	2.4478E+05	325.6	118.9
1.000	1.000	215.3	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
69 D	43.72	1.6608E-08	161.1	97.70	237.0	118.5	UL-RL	2.4478E+05	325.4	120.9
1.000	1.000	218.6	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
70 D	44.38	1.3562E-08	163.6	98.97	239.5	119.7	UL-RL	2.4478E+05	325.2	122.9
1.000	1.000	221.9	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
71 D	45.03	1.0524E-08	166.1	100.2	242.0	121.0	UL-RL	2.4478E+05	325.0	124.9
1.000	1.000	225.1	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
72 D	45.68	7.4958E-09	168.6	101.5	244.5	122.2	UL-RL	2.4478E+05	324.8	126.9
1.000	1.000	228.4	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
73 D	46.34	4.4724E-09	171.1	102.8	247.0	123.5	UL-RL	2.4478E+05	324.6	128.9
1.000	1.000	231.7	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
74 D	46.99	1.4523E-09	173.6	104.1	249.5	124.7	UL-RL	2.4478E+05	324.4	130.9
1.000	1.000	235.0	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
75 D	47.65	-1.5662E-09	176.1	105.3	252.0	126.0	UL-RL	2.4478E+05	324.2	132.9
1.000	1.000	238.2	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
76 D	24.15	-4.5706E-09	178.6	106.6	254.5	127.2	UL-RL	2.4478E+05	324.0	134.9
1.000	1.000	241.5	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						

```
+------------------------------------------------------------------------------------------------------------------------+
|                   PARATIEPLUS(TM)   NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*              |
|                                                                                                                        |
|                                                  ParatiePlus                                                           |
|                                    Exe Time :28 January 2022   16:22:48                                                |
+------------------------------------------------------------------------------------------------------------------------+
New Project


S T R E S S    R E S U L T S    F O R    G R O U P  N O.   2

0_R                                                          :
ELEMENT TYPE    5 NO.OF ELEMENTS. IN THIS GROUP   76
C U R R E N T    T I M E    I S      2.0000 SUBINCREMENT 00001/00001

 HARDENING 2D SOIL ELEMENT

 ****** TOTAL STRESS FORMULATION *****

 EL *   FORCE     DISPL-Y  VERTICAL-P  HORIZON.-P     MAX-V-P     MAX-H-P          STATE   STIFFNESS Z-LEVEL      PORE       E FAC-
TOR    UFACTOR       Peq          Su_a        Su_p       Cohe_a      Cohe_p     LAYER                               ZFO         QS
QSL         ZD           ZPL           Kz
-------------------------------------------------------------------------------------------------------------------------------------
-------------------------------------------------------------------------------------------------------------------------------------
---------------------------------------------
   1 D  3.1149E-03  4.5879E-07   0.000      3.1149E-02   76.00       38.00          UL-RL  6.7893E+04   339.0       0.000
1.000       1.000      3.1149E-02   0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   2 D  1.748      4.5559E-07   3.800       8.738       79.80       39.90          UL-RL  6.7893E+04   338.8       0.000
1.000       1.000       8.738       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   3 D  2.527      4.5237E-07   7.600       12.63       83.60       41.80          UL-RL  6.7893E+04   338.6       0.000
1.000       1.000       12.63       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   4 D  3.163      4.4911E-07   11.40       15.81       87.40       43.70          UL-RL  6.7893E+04   338.4       0.000
1.000       1.000       15.81       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   5 D  3.729      4.4571E-07   15.20       18.65       91.20       45.60          UL-RL  6.7893E+04   338.2       0.000
1.000       1.000       18.65       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   6 D  4.255      4.4209E-07   19.00       21.27       95.00       47.50          UL-RL  6.7893E+04   338.0       0.000
1.000       1.000       21.27       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   7 D  4.752      4.3809E-07   22.80       23.76       98.80       49.40          UL-RL  6.7893E+04   337.8       0.000
1.000       1.000       23.76       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   8 D  5.230      4.3354E-07   26.60       26.15       102.6       51.30          UL-RL  6.7893E+04   337.6       0.000
1.000       1.000       26.15       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   9 D  5.730     -2.7246E-06   29.31       27.56       105.0       52.52          UL-RL  6.7893E+04   337.4       1.091
1.000       1.000       28.65       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  10 D  6.348     -2.6420E-06   31.12       28.65       106.9       53.43          UL-RL  6.7893E+04   337.2       3.086
1.000       1.000       31.74       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  11 D  6.962     -2.5606E-06   32.92       29.73       108.7       54.33          UL-RL  6.7893E+04   337.0       5.080
1.000       1.000       34.81       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  12 D  7.575     -2.4805E-06   34.73       30.80       110.5       55.24          UL-RL  6.7893E+04   336.8       7.075
1.000       1.000       37.88       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  13 D  8.186     -2.4018E-06   36.53       31.86       112.3       56.14          UL-RL  6.7893E+04   336.6       9.069
1.000       1.000       40.93       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  14 D  8.795     -2.3244E-06   38.34       32.91       114.1       57.05          UL-RL  6.7893E+04   336.4       11.06
1.000       1.000       43.98       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  15 D  9.403     -2.2484E-06   40.14       33.95       115.9       57.95          UL-RL  6.7893E+04   336.2       13.06
1.000       1.000       47.01       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  16 D  10.01     -2.1737E-06   41.95       34.99       117.7       58.86          UL-RL  6.7893E+04   336.0       15.05
1.000       1.000       50.04       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  17 D  10.61     -2.1002E-06   43.76       36.02       119.5       59.76          UL-RL  6.7893E+04   335.8       17.05
1.000       1.000       53.06       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  18 D  11.22     -2.0278E-06   45.56       37.04       121.3       60.67          UL-RL  6.7893E+04   335.6       19.04
1.000       1.000       56.08       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  19 D  11.82     -1.9562E-06   47.37       38.05       123.1       61.57          UL-RL  6.7893E+04   335.4       21.04
1.000       1.000       59.09       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  20 D  12.42     -1.8853E-06   49.17       39.06       124.9       62.47          UL-RL  6.7893E+04   335.2       23.03
1.000       1.000       62.10       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  21 D  14.03     -8.0599E-08   50.98       45.15       126.8       71.24          UL-RL  3.7492E+05   335.0       25.03
1.000       1.000       70.17       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  22 D  14.68     -8.3999E-08   52.98       46.39       128.8       72.37          UL-RL  3.7492E+05   334.8       27.02
```

```
1.000       1.000       73.41       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  23 D   15.33     -8.7262E-08   54.99       47.63       130.8       73.50          UL-RL  3.7492E+05   334.6       29.02
1.000       1.000       76.64       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  24 D   15.97     -9.0184E-08   56.99       48.86       132.8       74.63          UL-RL  3.7492E+05   334.4       31.01
1.000       1.000       79.87       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  25 D   16.62     -9.2597E-08   59.00       50.08       134.8       75.76          UL-RL  3.7492E+05   334.2       33.01
1.000       1.000       83.09       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  26 D   17.26     -9.4368E-08   61.01       51.31       136.8       76.88          UL-RL  3.7492E+05   334.0       35.00
1.000       1.000       86.31       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  27 D   17.90     -9.5394E-08   63.01       52.52       138.8       78.01          UL-RL  3.7492E+05   333.8       36.99
1.000       1.000       89.52       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  28 D   18.55     -9.5599E-08   65.02       53.74       140.8       79.14          UL-RL  3.7492E+05   333.6       38.99
1.000       1.000       92.73       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  29 D   19.19     -9.4928E-08   67.02       54.95       142.8       80.27          UL-RL  3.7492E+05   333.4       40.98
1.000       1.000       95.94       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  30 D   19.83     -9.3346E-08   69.03       56.16       144.8       81.40          UL-RL  3.7492E+05   333.2       42.98
1.000       1.000       99.14       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  31 D   20.47     -9.0835E-08   71.03       57.37       146.9       82.53          UL-RL  3.7492E+05   333.0       44.97
1.000       1.000       102.3       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  32 D   21.11     -8.7393E-08   73.04       58.57       148.9       83.66          UL-RL  3.7492E+05   332.8       46.97
1.000       1.000       105.5       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  33 D   21.75     -8.3024E-08   75.05       59.77       150.9       84.79          UL-RL  3.7492E+05   332.6       48.96
1.000       1.000       108.7       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  34 D   22.38     -7.7746E-08   77.05       60.97       152.9       85.92          UL-RL  3.7492E+05   332.4       50.96
1.000       1.000       111.9       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  35 D   23.02     -7.1583E-08   79.06       62.16       154.9       87.05          UL-RL  3.7492E+05   332.2       52.95
1.000       1.000       115.1       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  36 D   23.66     -6.4566E-08   81.06       63.36       156.9       88.18          UL-RL  3.7492E+05   332.0       54.95
1.000       1.000       118.3       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  37 D   24.30     -5.6731E-08   83.07       64.55       158.9       89.31          UL-RL  3.7492E+05   331.8       56.94
1.000       1.000       121.5       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  38 D   24.93     -4.8114E-08   85.07       65.74       160.9       90.44          UL-RL  3.7492E+05   331.6       58.94
1.000       1.000       124.7       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  39 D   25.57     -3.8769E-08   87.08       66.93       162.9       91.56          UL-RL  3.7492E+05   331.4       60.93
1.000       1.000       127.9       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  40 D   26.21     -2.8740E-08   89.08       68.11       164.9       92.69          UL-RL  3.7492E+05   331.2       62.93
1.000       1.000       131.0       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  41 D   25.31     -8.6463E-08   91.09       61.64       166.9       83.47          UL-RL  1.8384E+05   331.0       64.92
1.000       1.000       126.6       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  42 D   25.97     -8.6789E-08   93.59       62.95       169.4       84.72          UL-RL  1.8384E+05   330.8       66.92
1.000       1.000       129.9       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  43 D   26.63     -8.6597E-08   96.09       64.25       171.9       85.97          UL-RL  1.8384E+05   330.6       68.92
1.000       1.000       133.2       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  44 D   27.30     -8.5939E-08   98.59       65.56       174.4       87.22          UL-RL  1.8384E+05   330.4       70.92
1.000       1.000       136.5       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  45 D   27.96     -8.4868E-08   101.1       66.86       176.9       88.47          UL-RL  1.8384E+05   330.2       72.92
1.000       1.000       139.8       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  46 D   28.61     -8.3430E-08   103.6       68.16       179.5       89.73          UL-RL  1.8384E+05   330.0       74.92
1.000       1.000       143.1       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  47 D   29.27     -8.1671E-08   106.1       69.45       182.0       90.98          UL-RL  1.8384E+05   329.8       76.92
1.000       1.000       146.4       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  48 D   29.93     -7.9636E-08   108.6       70.75       184.5       92.23          UL-RL  1.8384E+05   329.6       78.92
1.000       1.000       149.7       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  49 D   30.59     -7.7361E-08   111.1       72.04       187.0       93.48          UL-RL  1.8384E+05   329.4       80.92
1.000       1.000       153.0       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  50 D   31.25     -7.4884E-08   113.6       73.34       189.5       94.73          UL-RL  1.8384E+05   329.2       82.92
1.000       1.000       156.3       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  51 D   31.91     -7.2237E-08   116.1       74.63       192.0       95.98          UL-RL  1.8384E+05   329.0       84.92
1.000       1.000       159.5       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  52 D   32.57     -6.9450E-08   118.6       75.92       194.5       97.23          UL-RL  1.8384E+05   328.8       86.92
1.000       1.000       162.8       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
```

53 D	33.22	-6.6549E-08	121.1	77.21	197.0	98.48	UL-RL	1.8384E+05	328.6	88.91
1.000	1.000	166.1	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
54 D	33.88	-6.3558E-08	123.6	78.49	199.5	99.73	UL-RL	1.8384E+05	328.4	90.91
1.000	1.000	169.4	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
55 D	34.54	-6.0496E-08	126.1	79.78	202.0	101.0	UL-RL	1.8384E+05	328.2	92.91
1.000	1.000	172.7	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
56 D	35.20	-5.7384E-08	128.6	81.07	204.5	102.2	UL-RL	1.8384E+05	328.0	94.91
1.000	1.000	176.0	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
57 D	35.85	-5.4237E-08	131.1	82.35	207.0	103.5	UL-RL	1.8384E+05	327.8	96.91
1.000	1.000	179.3	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
58 D	36.51	-5.1067E-08	133.6	83.63	209.5	104.7	UL-RL	1.8384E+05	327.6	98.91
1.000	1.000	182.5	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
59 D	37.17	-4.7886E-08	136.1	84.92	212.0	106.0	UL-RL	1.8384E+05	327.4	100.9
1.000	1.000	185.8	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
60 D	37.82	-4.4702E-08	138.6	86.20	214.5	107.2	UL-RL	1.8384E+05	327.2	102.9
1.000	1.000	189.1	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
61 D	38.48	-4.1522E-08	141.1	87.48	217.0	108.5	UL-RL	1.8384E+05	327.0	104.9
1.000	1.000	192.4	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
62 D	39.13	-3.8352E-08	143.6	88.76	219.5	109.7	UL-RL	1.8384E+05	326.8	106.9
1.000	1.000	195.7	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
63 D	39.79	-3.5195E-08	146.1	90.04	222.0	111.0	UL-RL	1.8384E+05	326.6	108.9
1.000	1.000	198.9	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
64 D	40.45	-3.2054E-08	148.6	91.31	224.5	112.2	UL-RL	1.8384E+05	326.4	110.9
1.000	1.000	202.2	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
65 D	41.10	-2.8931E-08	151.1	92.59	227.0	113.5	UL-RL	1.8384E+05	326.2	112.9
1.000	1.000	205.5	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
66 D	41.76	-2.5826E-08	153.6	93.87	229.5	114.7	UL-RL	1.8384E+05	326.0	114.9
1.000	1.000	208.8	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
67 D	42.41	-2.2738E-08	156.1	95.14	232.0	116.0	UL-RL	1.8384E+05	325.8	116.9
1.000	1.000	212.1	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
68 D	43.07	-1.9666E-08	158.6	96.42	234.5	117.2	UL-RL	1.8384E+05	325.6	118.9
1.000	1.000	215.3	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
69 D	43.72	-1.6608E-08	161.1	97.69	237.0	118.5	UL-RL	1.8384E+05	325.4	120.9
1.000	1.000	218.6	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
70 D	44.38	-1.3562E-08	163.6	98.97	239.5	119.7	UL-RL	1.8384E+05	325.2	122.9
1.000	1.000	221.9	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
71 D	45.03	-1.0524E-08	166.1	100.2	242.0	121.0	UL-RL	1.8384E+05	325.0	124.9
1.000	1.000	225.2	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
72 D	45.68	-7.4958E-09	168.6	101.5	244.5	122.2	UL-RL	1.8384E+05	324.8	126.9
1.000	1.000	228.4	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
73 D	46.34	-4.4724E-09	171.1	102.8	247.0	123.5	UL-RL	1.8384E+05	324.6	128.9
1.000	1.000	231.7	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
74 D	46.99	-1.4523E-09	173.6	104.1	249.5	124.7	UL-RL	1.8384E+05	324.4	130.9
1.000	1.000	235.0	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
75 D	47.65	1.5662E-09	176.1	105.3	252.0	126.0	UL-RL	1.8384E+05	324.2	132.9
1.000	1.000	238.2	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
76 D	24.15	4.5706E-09	178.6	106.6	254.5	127.2	UL-RL	1.8384E+05	324.0	134.9
1.000	1.000	241.5	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						

New Project

S T R E S S   R E S U L T S   F O R   G R O U P   N O.   3

Pali1500_253215   :
ELEMENT TYPE   2 NO.OF ELEMENTS. IN THIS GROUP   75
C U R R E N T   T I M E   I S   2.0000 SUBINCREMENT 00001/00001

 WALL2D ELEMENT

EL	TA	TB	MA	MB
1	-3.11486E-03	3.11486E-03	1.64313E-14	-6.22972E-04
2	-1.89641E-02	1.89641E-02	6.22972E-04	-4.41579E-03
3	-3.47015E-02	3.47015E-02	4.41579E-03	-1.13561E-02
4	-5.03253E-02	5.03253E-02	1.13561E-02	-2.14212E-02
5	-6.58310E-02	6.58310E-02	2.14212E-02	-3.45939E-02
6	-8.12105E-02	8.12105E-02	3.45939E-02	-5.08360E-02
7	-9.64509E-02	9.64509E-02	5.08360E-02	-7.01262E-02
8	-0.11153	0.11153	7.01262E-02	-9.24329E-02
9	-8.50802E-02	8.50802E-02	9.24329E-02	-0.10945
10	-5.99623E-02	5.99623E-02	0.10945	-0.12144
11	-3.60699E-02	3.60699E-02	0.12144	-0.12866
12	-1.32997E-02	1.32997E-02	0.12866	-0.13132
13	8.44483E-03	-8.44483E-03	0.13132	-0.12963
14	2.92534E-02	-2.92534E-02	0.12963	-0.12377
15	4.92098E-02	-4.92098E-02	0.12377	-0.11393
16	6.83903E-02	-6.83903E-02	0.11393	-0.10025
17	8.68630E-02	-8.68630E-02	0.10025	-8.28822E-02
18	0.10469	-0.10469	8.28822E-02	-6.19446E-02
19	0.12191	-0.12191	6.19446E-02	-3.75617E-02
20	0.13858	-0.13858	3.75617E-02	-9.84503E-03
21	0.11650	-0.11650	9.84503E-03	1.34673E-02
22	9.64532E-02	-9.64532E-02	-1.34673E-02	3.27579E-02
23	7.84239E-02	-7.84239E-02	-3.27579E-02	4.84427E-02
24	6.23700E-02	-6.23700E-02	-4.84427E-02	6.09167E-02
25	4.82159E-02	-4.82159E-02	-6.09167E-02	7.05599E-02
26	3.58614E-02	-3.58614E-02	-7.05599E-02	7.77321E-02
27	2.51878E-02	-2.51878E-02	-7.77321E-02	8.27697E-02
28	1.60620E-02	-1.60620E-02	-8.27697E-02	8.59821E-02
29	8.34066E-03	-8.34066E-03	-8.59821E-02	8.76511E-02
30	1.87432E-03	-1.87432E-03	-8.76511E-02	8.80259E-02
31	-3.49154E-03	3.49154E-03	-8.80259E-02	8.73276E-02
32	-7.91218E-03	7.91218E-03	-8.73276E-02	8.57452E-02
33	-1.15422E-02	1.15422E-02	-8.57452E-02	8.34368E-02
34	-1.45339E-02	1.45339E-02	-8.34368E-02	8.05300E-02
35	-1.70357E-02	1.70357E-02	-8.05300E-02	7.71228E-02
36	-1.91915E-02	1.91915E-02	-7.71228E-02	7.32845E-02
37	-2.11389E-02	2.11389E-02	-7.32845E-02	6.90546E-02
38	-2.30092E-02	2.30092E-02	-6.90546E-02	6.44528E-02
39	-2.49263E-02	2.49263E-02	-6.44528E-02	5.94675E-02
40	-2.70057E-02	2.70057E-02	-5.94675E-02	5.40664E-02
41	-2.62347E-02	2.62347E-02	-5.40664E-02	4.88195E-02
42	-2.52472E-02	2.52472E-02	-4.88195E-02	4.37700E-02
43	-2.40874E-02	2.40874E-02	-4.37700E-02	3.89525E-02
44	-2.27950E-02	2.27950E-02	-3.89525E-02	3.43935E-02
45	-2.14051E-02	2.14051E-02	-3.43935E-02	3.01125E-02
46	-1.99490E-02	1.99490E-02	-3.01125E-02	2.61207E-02
47	-1.84540E-02	1.84540E-02	-2.61207E-02	2.24299E-02
48	-1.69438E-02	1.69438E-02	-2.24299E-02	1.90411E-02
49	-1.54388E-02	1.54388E-02	-1.90411E-02	1.59534E-02
50	-1.39562E-02	1.39562E-02	-1.59534E-02	1.31621E-02
51	-1.25105E-02	1.25105E-02	-1.31621E-02	1.06600E-02
52	-1.11138E-02	1.11138E-02	-1.06600E-02	8.43730E-03
53	-9.77565E-03	9.77565E-03	-8.43730E-03	6.48217E-03
54	-8.50386E-03	8.50386E-03	-6.48217E-03	4.78054E-03
55	-7.30435E-03	7.30435E-03	-4.78054E-03	3.31967E-03
56	-6.18145E-03	6.18145E-03	-3.31967E-03	2.08338E-03
57	-5.13824E-03	5.13824E-03	-2.08338E-03	1.05574E-03
58	-4.17663E-03	4.17663E-03	-1.05574E-03	2.20409E-04
59	-3.29764E-03	3.29764E-03	-2.20409E-04	-4.39119E-04
60	-2.50150E-03	2.50150E-03	4.39119E-04	-9.39419E-04
61	-1.78786E-03	1.78786E-03	9.39419E-04	-1.29699E-03
62	-1.15592E-03	1.15592E-03	1.29699E-03	-1.52829E-03
63	-6.04582E-04	6.04582E-04	1.52829E-03	-1.64921E-03
64	-1.32463E-04	1.32463E-04	1.64921E-03	-1.67570E-03
65	2.61889E-04	-2.61889E-04	1.67570E-03	-1.62332E-03
66	5.79947E-04	-5.79947E-04	1.62332E-03	-1.50733E-03
67	8.23142E-04	-8.23142E-04	1.50733E-03	-1.34270E-03
68	9.92795E-04	-9.92795E-04	1.34270E-03	-1.14415E-03
69	1.09008E-03	-1.09008E-03	1.14415E-03	-9.26129E-04
70	1.11600E-03	-1.11600E-03	9.26129E-04	-7.02818E-04

```
   71 1.07130E-03-1.07130E-03 7.02818E-04-4.88558E-04
   72 9.56625E-04-9.56625E-04 4.88558E-04-2.97233E-04
   73 7.72372E-04-7.72372E-04 2.97233E-04-1.42759E-04
   74 5.18769E-04-5.18769E-04 1.42759E-04-3.90049E-05
   75 1.95906E-04-1.95906E-04 3.90049E-05 5.55112E-17

ITER     0 RNORM = 0.000     RMNORM= 0.000
           RINORM=0.6389E+05 RIMNOR=0.5181
           RENORM= 7856.     REMNOR=0.1559E-24 RATIO =0.3507     TOLER =0.1000E-03  NOT CONVERGED
           RFMAX = 42.19     RMMAX =0.1313
           RTSMAL=0.1000E-03 RMSMAL=0.1000E-05
           RDT   =0.6389E+05 RDR   =0.5181
           RATIOT=0.3507     RATIOR= 0.000
           MAX UN= 17.37     IEQ=    61 NODE     31 DOF   1  Y-DISPL.F
           MIN UN=-.1306E-12 IEQ=    32 NODE     16 DOF   2   X-ROT. F
           NO. OF CONTACT CONSTRAINT VIOLATIONS     0


ITER     2 RNORM = 0.000     RMNORM= 0.000
           RINORM=0.6389E+05 RIMNOR=0.5181
           RENORM= 1015.     REMNOR=0.6228E-18 RATIO =0.1260     TOLER =0.1000E-03  NOT CONVERGED
           RFMAX = 42.19     RMMAX =0.1313
           RTSMAL=0.1000E-03 RMSMAL=0.1000E-05
           RDT   =0.6389E+05 RDR   =0.5181
           RATIOT=0.1260     RATIOR= 0.000
           MAX UN= 10.20     IEQ=    41 NODE     21 DOF   1  Y-DISPL.F
           MIN UN=-.2805E-08 IEQ=    25 NODE     13 DOF   1  Y-DISPL.F
           NO. OF CONTACT CONSTRAINT VIOLATIONS     0


ITER     3 RNORM = 0.000     RMNORM= 0.000
           RINORM=0.6389E+05 RIMNOR=0.5181
           RENORM= 269.5     REMNOR=0.7001E-18 RATIO =0.6495E-01 TOLER =0.1000E-03  NOT CONVERGED
           RFMAX = 42.19     RMMAX =0.1313
           RTSMAL=0.1000E-03 RMSMAL=0.1000E-05
           RDT   =0.6389E+05 RDR   =0.5181
           RATIOT=0.6495E-01 RATIOR= 0.000
           MAX UN= 7.721     IEQ=    67 NODE     34 DOF   1  Y-DISPL.F
           MIN UN=-.4350E-08 IEQ=    49 NODE     25 DOF   1  Y-DISPL.F
           NO. OF CONTACT CONSTRAINT VIOLATIONS     0


ITER     4 RNORM = 0.000     RMNORM= 0.000
           RINORM=0.6389E+05 RIMNOR=0.5181
           RENORM= 24.37     REMNOR=0.3118E-17 RATIO =0.1953E-01 TOLER =0.1000E-03  NOT CONVERGED
           RFMAX = 42.19     RMMAX =0.1313
           RTSMAL=0.1000E-03 RMSMAL=0.1000E-05
           RDT   =0.6389E+05 RDR   =0.5181
           RATIOT=0.1953E-01 RATIOR= 0.000
           MAX UN= 4.224     IEQ=    81 NODE     41 DOF   1  Y-DISPL.F
           MIN UN=-.1920E-07 IEQ=    23 NODE     12 DOF   1  Y-DISPL.F
           NO. OF CONTACT CONSTRAINT VIOLATIONS     0


ITER     5 RNORM = 0.000     RMNORM= 0.000
           RINORM=0.6389E+05 RIMNOR=0.5181
           RENORM=0.4532E-01 REMNOR=0.9019E-18 RATIO =0.8423E-03 TOLER =0.1000E-03  NOT CONVERGED
           RFMAX = 42.19     RMMAX =0.1313
           RTSMAL=0.1000E-03 RMSMAL=0.1000E-05
           RDT   =0.6389E+05 RDR   =0.5181
           RATIOT=0.8423E-03 RATIOR= 0.000
           MAX UN=0.2129     IEQ=    87 NODE     44 DOF   1  Y-DISPL.F
           MIN UN=-.5408E-08 IEQ=    39 NODE     20 DOF   1  Y-DISPL.F
           NO. OF CONTACT CONSTRAINT VIOLATIONS     0


ITER     6 RNORM = 0.000     RMNORM= 0.000
           RINORM=0.6389E+05 RIMNOR=0.5181
           RENORM=0.2961E-15 REMNOR=0.8831E-18 RATIO =0.6807E-10 TOLER =0.1000E-03      CONVERGED !
           RFMAX = 42.19     RMMAX =0.1313
           RTSMAL=0.1000E-03 RMSMAL=0.1000E-05
           RDT   =0.6389E+05 RDR   =0.5181
           RATIOT=0.6807E-10 RATIOR= 0.000
           MAX UN=0.7551E-08 IEQ=     7 NODE      4 DOF   1  Y-DISPL.F
           MIN UN=-.6264E-08 IEQ=    37 NODE     19 DOF   1  Y-DISPL.F
           NO. OF CONTACT CONSTRAINT VIOLATIONS     0
```

```
+-------------------------------------------------------------------------------------------------------------------------+
|                   PARATIEPLUS(TM)   NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*              |
|                                                                                                                         |
|                                                ParatiePlus                                                              |
|                                  Exe Time :28 January 2022   16:22:48                                                   |
+-------------------------------------------------------------------------------------------------------------------------+
New Project
SOLUTION REACHED USING     6 ITERATIONS ON   80

P R I N T   O U T   F O R   T I M E   S T E P    3     ( AT TIME   3.000     ) SUBINCREMENT 00001/00001

PRINT OUT OF ACTIVE COMPONENTS (FIXED NODES ARE NOT PRINTED OUT)

          Y-DISPL.F        X-ROT. F
            02               04
    1   6.3345109E-03  -6.3304908E-04
    2   6.2079010E-03  -6.3304908E-04
    3   6.0812912E-03  -6.3304908E-04
    4   5.9546814E-03  -6.3304908E-04
    5   5.8280716E-03  -6.3304908E-04
    6   5.7013985E-03  -6.3304908E-04
    7   5.5747887E-03  -6.3304908E-04
    8   5.4481789E-03  -6.3304908E-04
    9   5.3184162E-03  -6.3304908E-04
   10   5.1918952E-03  -6.3304873E-04
   11   5.0653745E-03  -6.3304633E-04
   12   4.9388547E-03  -6.3303802E-04
   13   4.8123378E-03  -6.3301676E-04
   14   4.6857640E-03  -6.3297153E-04
   15   4.5592661E-03  -6.3288744E-04
   16   4.4327905E-03  -6.3274559E-04
   17   4.3063509E-03  -6.3252316E-04
   18   4.1799660E-03  -6.3219336E-04
   19   4.0536604E-03  -6.3172545E-04
   20   3.9274650E-03  -6.3108475E-04
   21   3.8031524E-03  -6.3023264E-04
   22   3.6771645E-03  -6.2911718E-04
   23   3.5514943E-03  -6.2767486E-04
   24   3.4261511E-03  -6.2583542E-04
   25   3.3012217E-03  -6.2352387E-04
   26   3.1768084E-03  -6.2066006E-04
   27   3.0530302E-03  -6.1715862E-04
   28   2.9300235E-03  -6.1292903E-04
   29   2.8079435E-03  -6.0787558E-04
   30   2.6869048E-03  -6.0189412E-04
   31   2.5672239E-03  -5.9488454E-04
   32   2.4490545E-03  -5.8677203E-04
   33   2.3326202E-03  -5.7753301E-04
   34   2.2181465E-03  -5.6716763E-04
   35   2.1058569E-03  -5.5569597E-04
   36   1.9959697E-03  -5.4315022E-04
   37   1.8886958E-03  -5.2957069E-04
   38   1.7841857E-03  -5.1499825E-04
   39   1.6827355E-03  -4.9950395E-04
   40   1.5844717E-03  -4.8314536E-04
   41   1.4894918E-03  -4.6599517E-04
   42   1.3980683E-03  -4.4817663E-04
   43   1.3102612E-03  -4.2985983E-04
   44   1.2261531E-03  -4.1121557E-04
   45   1.1457924E-03  -3.9241406E-04
   46   1.0691941E-03  -3.7361739E-04
   47   9.9630674E-04  -3.5496317E-04
   48   9.2715949E-04  -3.3660132E-04
   49   8.6164649E-04  -3.1863892E-04
   50   7.9967738E-04  -3.0117834E-04
   51   7.4114267E-04  -2.8430863E-04
   52   6.8591634E-04  -2.6810626E-04
   53   6.3385828E-04  -2.5263585E-04
   54   5.8481655E-04  -2.3795083E-04
   55   5.3860723E-04  -2.2408740E-04
   56   4.9510729E-04  -2.1109248E-04
   57   4.5411814E-04  -1.9898268E-04
   58   4.1546111E-04  -1.8777304E-04
   59   3.7895536E-04  -1.7747041E-04
   60   3.4441945E-04  -1.6807391E-04
   61   3.1167284E-04  -1.5957540E-04
   62   2.8053733E-04  -1.5195989E-04
   63   2.5082384E-04  -1.4520269E-04
   64   2.2239238E-04  -1.3928290E-04
   65   1.9506424E-04  -1.3416338E-04
   66   1.6868320E-04  -1.2980494E-04
   67   1.4310141E-04  -1.2616301E-04
   68   1.1818046E-04  -1.2318776E-04
   69   9.3792423E-05  -1.2082433E-04
   70   6.9820837E-05  -1.1901288E-04
   71   4.6149926E-05  -1.1768818E-04
   72   2.2712718E-05  -1.1678210E-04
   73  -5.7891257E-07  -1.1621965E-04
   74  -2.3785884E-05  -1.1592196E-04
```

```
75  -4.6952865E-05  -1.1580544E-04
76  -7.0003157E-05  -1.1578184E-04
```

```
+-----------------------------------------------------------------------------------------------------------------------+
|                  PARATIEPLUS(TM)   NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*             |
|                                                                                                                       |
|                                              ParatiePlus                                                              |
|                                    Exe Time :28 January 2022   16:22:48                                               |
+-----------------------------------------------------------------------------------------------------------------------+
New Project


S T R E S S   R E S U L T S   F O R   G R O U P   N O.   1

0_L                                                    :
ELEMENT TYPE    5 NO.OF ELEMENTS. IN THIS GROUP   76
C U R R E N T   T I M E   I S      3.0000 SUBINCREMENT 00001/00001

 HARDENING 2D SOIL ELEMENT

 ****** TOTAL STRESS FORMULATION *****

  EL *   FORCE     DISPL-Y  VERTICAL-P  HORIZON.-P     MAX-V-P     MAX-H-P          STATE   STIFFNESS Z-LEVEL      PORE       E FAC-
TOR    UFACTOR       Peq          Su_a        Su_p        Cohe_a      Cohe_p     LAYER                                ZFO         QS
QSL          ZD          ZPL          Kz
 ------------------------------------------------------------------------------------------------------------------------------------
------------------------------------------------------------------------------------------------------------------------------------
-----------------------------------------------
   1 D   0.000     -6.3345E-03   0.000       0.000       76.00       38.00          ACTIVE   0.000       339.0       0.000
1.000       1.000       0.000       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   2 D   0.000     -6.2079E-03   3.800       0.000       79.80       39.90          ACTIVE   0.000       338.8       0.000
1.000       1.000       0.000       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   3 D   0.000     -6.0813E-03   7.600       0.000       83.60       41.80          ACTIVE   0.000       338.6       0.000
1.000       1.000       0.000       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   4 D   0.000     -5.9547E-03   11.40       0.000       87.40       43.70          ACTIVE   0.000       338.4       0.000
1.000       1.000       0.000       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   5 D   0.000     -5.8281E-03   15.20       0.000       91.20       45.60          ACTIVE   0.000       338.2       0.000
1.000       1.000       0.000       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   6 D   0.000     -5.7014E-03   19.00       0.000       95.00       47.50          ACTIVE   0.000       338.0       0.000
1.000       1.000       0.000       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   7 D   0.000     -5.5748E-03   22.80       0.000       98.80       49.40          ACTIVE   0.000       337.8       0.000
1.000       1.000       0.000       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   8 D   0.000     -5.4482E-03   26.60       0.000       102.6       51.30          ACTIVE   0.000       337.6       0.000
1.000       1.000       0.000       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   9 D  6.5762E-02 -5.3184E-03   30.07       0.000       105.7       52.96          ACTIVE   0.000       337.4       0.3288
1.000       1.000      0.3288       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  10 D  0.2534     -5.1919E-03   32.93       0.000       107.5       53.85          ACTIVE   0.000       337.2       1.267
1.000       1.000       1.267       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  11 D  0.4765     -5.0654E-03   35.80      0.1776       109.3       54.74          ACTIVE   0.000       337.0       2.205
1.000       1.000       2.383       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  12 D  0.8485     -4.9389E-03   38.66       1.099       111.1       55.64          ACTIVE   0.000       336.8       3.143
1.000       1.000       4.242       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  13 D   1.220     -4.8123E-03   41.52       2.021       112.9       56.53          ACTIVE   0.000       336.6       4.081
1.000       1.000       6.102       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  14 D   1.593     -4.6858E-03   44.38       2.943       114.7       57.42          ACTIVE   0.000       336.4       5.020
1.000       1.000       7.963       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  15 D   1.964     -4.5593E-03   47.25       3.864       116.4       58.31          ACTIVE   0.000       336.2       5.958
1.000       1.000       9.822       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  16 D   2.336     -4.4328E-03   50.11       4.786       118.2       59.21          ACTIVE   0.000       336.0       6.896
1.000       1.000       11.68       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  17 D   2.708     -4.3064E-03   52.97       5.707       120.0       60.10          ACTIVE   0.000       335.8       7.834
1.000       1.000       13.54       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  18 D   3.080     -4.1800E-03   55.83       6.629       121.8       60.99          ACTIVE   0.000       335.6       8.772
1.000       1.000       15.40       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  19 D   3.452     -4.0537E-03   58.69       7.550       123.6       61.88          ACTIVE   0.000       335.4       9.710
1.000       1.000       17.26       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  20 D   3.824     -3.9275E-03   61.56       8.472       125.4       62.78          ACTIVE   0.000       335.2       10.65
1.000       1.000       19.12       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  21 D   5.840     -3.8032E-03   64.42       17.61       127.2       71.54          ACTIVE   0.000       335.0       11.59
1.000       1.000       29.20       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  22 D   6.329     -3.6772E-03   67.48       19.12       129.2       72.65          ACTIVE   0.000       334.8       12.53
```

1.000	1.000	31.64	0.000	0.000	10.00	10.00	Salt_1270_202756_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
23 D	6.817	-3.5515E-03	70.54	20.62	131.2	73.77	ACTIVE	0.000	334.6	13.46
1.000	1.000	34.09	0.000	0.000	10.00	10.00	Salt_1270_202756_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
24 D	7.305	-3.4262E-03	73.60	22.13	133.2	74.89	ACTIVE	0.000	334.4	14.40
1.000	1.000	36.53	0.000	0.000	10.00	10.00	Salt_1270_202756_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
25 D	7.794	-3.3012E-03	76.67	23.63	135.2	76.00	ACTIVE	0.000	334.2	15.34
1.000	1.000	38.97	0.000	0.000	10.00	10.00	Salt_1270_202756_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
26 D	8.282	-3.1768E-03	79.73	25.13	137.1	77.12	ACTIVE	0.000	334.0	16.28
1.000	1.000	41.41	0.000	0.000	10.00	10.00	Salt_1270_202756_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
27 D	8.770	-3.0530E-03	82.79	26.64	139.1	78.24	ACTIVE	0.000	333.8	17.22
1.000	1.000	43.85	0.000	0.000	10.00	10.00	Salt_1270_202756_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
28 D	9.259	-2.9300E-03	85.85	28.14	141.1	79.35	ACTIVE	0.000	333.6	18.15
1.000	1.000	46.29	0.000	0.000	10.00	10.00	Salt_1270_202756_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
29 D	9.747	-2.8079E-03	88.91	29.64	143.1	80.47	ACTIVE	0.000	333.4	19.09
1.000	1.000	48.73	0.000	0.000	10.00	10.00	Salt_1270_202756_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
30 D	10.24	-2.6869E-03	91.98	31.15	145.1	81.59	ACTIVE	0.000	333.2	20.03
1.000	1.000	51.18	0.000	0.000	10.00	10.00	Salt_1270_202756_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
31 D	10.72	-2.5672E-03	95.04	32.65	147.1	82.70	ACTIVE	0.000	333.0	20.97
1.000	1.000	53.62	0.000	0.000	10.00	10.00	Salt_1270_202756_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
32 D	11.21	-2.4491E-03	98.10	34.15	149.1	83.82	ACTIVE	0.000	332.8	21.91
1.000	1.000	56.06	0.000	0.000	10.00	10.00	Salt_1270_202756_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
33 D	11.70	-2.3326E-03	101.2	35.66	151.1	84.93	ACTIVE	0.000	332.6	22.85
1.000	1.000	58.50	0.000	0.000	10.00	10.00	Salt_1270_202756_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
34 D	12.19	-2.2181E-03	104.2	37.16	153.1	86.05	ACTIVE	0.000	332.4	23.78
1.000	1.000	60.94	0.000	0.000	10.00	10.00	Salt_1270_202756_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
35 D	12.68	-2.1059E-03	107.3	38.66	155.1	87.17	ACTIVE	0.000	332.2	24.72
1.000	1.000	63.38	0.000	0.000	10.00	10.00	Salt_1270_202756_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
36 D	13.17	-1.9960E-03	110.3	40.17	157.1	88.28	ACTIVE	0.000	332.0	25.66
1.000	1.000	65.83	0.000	0.000	10.00	10.00	Salt_1270_202756_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
37 D	13.65	-1.8887E-03	113.4	41.67	159.0	89.40	ACTIVE	0.000	331.8	26.60
1.000	1.000	68.27	0.000	0.000	10.00	10.00	Salt_1270_202756_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
38 D	14.14	-1.7842E-03	116.5	43.17	161.0	90.52	ACTIVE	0.000	331.6	27.54
1.000	1.000	70.71	0.000	0.000	10.00	10.00	Salt_1270_202756_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
39 D	14.63	-1.6827E-03	119.5	44.68	163.0	91.63	ACTIVE	0.000	331.4	28.47
1.000	1.000	73.15	0.000	0.000	10.00	10.00	Salt_1270_202756_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
40 D	15.12	-1.5845E-03	122.6	46.18	165.0	92.75	ACTIVE	0.000	331.2	29.41
1.000	1.000	75.59	0.000	0.000	10.00	10.00	Salt_1270_202756_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
41 D	6.071	-1.4895E-03	125.7	0.000	167.0	83.51	ACTIVE	0.000	331.0	30.35
1.000	1.000	30.35	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
42 D	6.449	-1.3981E-03	128.3	0.000	169.5	84.76	ACTIVE	0.000	330.8	32.25
1.000	1.000	32.25	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
43 D	6.828	-1.3103E-03	130.9	0.000	172.0	86.01	ACTIVE	0.000	330.6	34.14
1.000	1.000	34.14	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
44 D	7.462	-1.2262E-03	133.5	1.274	174.5	87.26	UL-RL	6.1194E+04	330.4	36.03
1.000	1.000	37.31	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
45 D	9.082	-1.1458E-03	136.1	7.483	177.0	88.51	UL-RL	6.1194E+04	330.2	37.93
1.000	1.000	45.41	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
46 D	10.66	-1.0692E-03	138.7	13.46	179.5	89.76	UL-RL	6.1194E+04	330.0	39.82
1.000	1.000	53.28	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
47 D	12.19	-9.9631E-04	141.3	19.21	182.0	91.01	UL-RL	6.1194E+04	329.8	41.72
1.000	1.000	60.93	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
48 D	13.67	-9.2716E-04	143.9	24.73	184.5	92.26	UL-RL	6.1194E+04	329.6	43.61
1.000	1.000	68.34	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
49 D	15.11	-8.6165E-04	146.5	30.03	187.0	93.51	UL-RL	6.1194E+04	329.4	45.50
1.000	1.000	75.54	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
50 D	16.50	-7.9968E-04	149.1	35.11	189.5	94.76	UL-RL	6.1194E+04	329.2	47.40
1.000	1.000	82.51	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
51 D	17.86	-7.4114E-04	151.7	39.98	192.0	96.01	UL-RL	6.1194E+04	329.0	49.29
1.000	1.000	89.28	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
52 D	19.17	-6.8592E-04	154.3	44.65	194.5	97.26	UL-RL	6.1194E+04	328.8	51.19
1.000	1.000	95.84	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						

53 D	20.44	-6.3386E-04	156.9	49.13	197.0	98.51	UL-RL	6.1194E+04	328.6	53.08	
1.000	1.000	102.2	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
54 D	21.68	-5.8482E-04	159.5	53.41	199.5	99.76	UL-RL	6.1194E+04	328.4	54.97	
1.000	1.000	108.4	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
55 D	22.88	-5.3861E-04	162.1	57.53	202.0	101.0	UL-RL	6.1194E+04	328.2	56.87	
1.000	1.000	114.4	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
56 D	24.05	-4.9511E-04	164.8	61.48	204.5	102.3	UL-RL	6.1194E+04	328.0	58.76	
1.000	1.000	120.2	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
57 D	25.19	-4.5412E-04	167.4	65.27	207.0	103.5	UL-RL	6.1194E+04	327.8	60.66	
1.000	1.000	125.9	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
58 D	26.29	-4.1546E-04	170.0	68.92	209.5	104.8	UL-RL	6.1194E+04	327.6	62.55	
1.000	1.000	131.5	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
59 D	27.38	-3.7896E-04	172.6	72.44	212.0	106.0	UL-RL	6.1194E+04	327.4	64.44	
1.000	1.000	136.9	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
60 D	28.44	-3.4442E-04	175.2	75.84	214.5	107.3	UL-RL	6.1194E+04	327.2	66.34	
1.000	1.000	142.2	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
61 D	29.47	-3.1167E-04	177.8	79.13	217.0	108.5	UL-RL	6.1194E+04	327.0	68.23	
1.000	1.000	147.4	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
62 D	30.49	-2.8054E-04	180.4	82.32	219.5	109.8	UL-RL	6.1194E+04	326.8	70.12	
1.000	1.000	152.4	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
63 D	31.49	-2.5082E-04	183.0	85.43	222.0	111.0	UL-RL	6.1194E+04	326.6	72.02	
1.000	1.000	157.4	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
64 D	32.47	-2.2239E-04	185.6	88.45	224.5	112.2	UL-RL	6.1194E+04	326.4	73.91	
1.000	1.000	162.4	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
65 D	33.44	-1.9506E-04	188.2	91.41	227.0	113.5	UL-RL	6.1194E+04	326.2	75.81	
1.000	1.000	167.2	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
66 D	34.40	-1.6868E-04	190.8	94.31	229.5	114.7	UL-RL	6.1194E+04	326.0	77.70	
1.000	1.000	172.0	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
67 D	35.35	-1.4310E-04	193.4	97.16	232.0	116.0	UL-RL	6.1194E+04	325.8	79.59	
1.000	1.000	176.8	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
68 D	36.29	-1.1818E-04	196.0	99.97	234.5	117.2	UL-RL	6.1194E+04	325.6	81.49	
1.000	1.000	181.5	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
69 D	37.22	-9.3792E-05	198.6	102.7	237.0	118.5	UL-RL	6.1194E+04	325.4	83.38	
1.000	1.000	186.1	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
70 D	38.15	-6.9821E-05	201.2	105.5	239.5	119.7	UL-RL	6.1194E+04	325.2	85.28	
1.000	1.000	190.8	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
71 D	39.08	-4.6150E-05	203.8	108.2	242.0	121.0	UL-RL	6.1194E+04	325.0	87.17	
1.000	1.000	195.4	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
72 D	40.00	-2.2713E-05	206.5	110.9	244.5	122.2	UL-RL	6.1194E+04	324.8	89.06	
1.000	1.000	200.0	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
73 D	40.92	5.7891E-07	209.1	113.7	247.0	123.5	UL-RL	6.1194E+04	324.6	90.96	
1.000	1.000	204.6	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
74 D	41.84	2.3786E-05	211.7	116.4	249.5	124.7	UL-RL	6.1194E+04	324.4	92.85	
1.000	1.000	209.2	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
75 D	42.76	4.6953E-05	214.3	119.1	252.0	126.0	UL-RL	6.1194E+04	324.2	94.75	
1.000	1.000	213.8	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
76 D	21.84	7.0003E-05	216.9	121.7	254.5	127.2	UL-RL	6.1194E+04	324.0	96.63	
1.000	1.000	218.4	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							

```
+-----------------------------------------------------------------------------------------------------------------------+
|                  PARATIEPLUS(TM)   NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*             |
|                                                                                                                       |
|                                            ParatiePlus                                                                |
|                                  Exe Time :28 January 2022   16:22:48                                                 |
+-----------------------------------------------------------------------------------------------------------------------+
New Project


S T R E S S   R E S U L T S   F O R   G R O U P   N O.   2

0_R                                                    :
ELEMENT TYPE    5 NO.OF ELEMENTS. IN THIS GROUP   76
C U R R E N T   T I M E   I S      3.0000 SUBINCREMENT 00001/00001

 HARDENING 2D SOIL ELEMENT

 ****** TOTAL STRESS FORMULATION *****

  EL *   FORCE     DISPL-Y  VERTICAL-P  HORIZON.-P     MAX-V-P     MAX-H-P          STATE   STIFFNESS Z-LEVEL      PORE       E FAC-
TOR    UFACTOR       Peq          Su_a        Su_p        Cohe_a      Cohe_p     LAYER                              ZFO         QS
QSL         ZD          ZPL          Kz
 ------------------------------------------------------------------------------------------------------------------------------
------------------------------------------------------------------------------------------------------------------------------
-----------------------------------------------
   1     0.000         --          --          --          --          --         REMOVED     --        339.0       0.000
1.000       1.000       0.000       0.000       0.000       0.000       0.000     not available
   2     0.000         --          --          --          --          --         REMOVED     --        338.8       0.000
1.000       1.000       0.000       0.000       0.000       0.000       0.000     not available
   3     0.000         --          --          --          --          --         REMOVED     --        338.6       0.000
1.000       1.000       0.000       0.000       0.000       0.000       0.000     not available
   4     0.000         --          --          --          --          --         REMOVED     --        338.4       0.000
1.000       1.000       0.000       0.000       0.000       0.000       0.000     not available
   5     0.000         --          --          --          --          --         REMOVED     --        338.2       0.000
1.000       1.000       0.000       0.000       0.000       0.000       0.000     not available
   6     0.000         --          --          --          --          --         REMOVED     --        338.0       0.000
1.000       1.000       0.000       0.000       0.000       0.000       0.000     not available
   7     0.000         --          --          --          --          --         REMOVED     --        337.8       0.000
1.000       1.000       0.000       0.000       0.000       0.000       0.000     not available
   8     0.000         --          --          --          --          --         REMOVED     --        337.6       0.000
1.000       1.000       0.000       0.000       0.000       0.000       0.000     not available
   9     0.000         --          --          --          --          --         REMOVED     --        337.4       0.000
1.000       1.000       0.000       0.000       0.000       0.000       0.000     not available
  10     0.000         --          --          --          --          --         REMOVED     --        337.2       0.000
1.000       1.000       0.000       0.000       0.000       0.000       0.000     not available
  11     0.000         --          --          --          --          --         REMOVED     --        337.0       0.000
1.000       1.000       0.000       0.000       0.000       0.000       0.000     not available
  12     0.000         --          --          --          --          --         REMOVED     --        336.8       0.000
1.000       1.000       0.000       0.000       0.000       0.000       0.000     not available
  13     0.000         --          --          --          --          --         REMOVED     --        336.6       0.000
1.000       1.000       0.000       0.000       0.000       0.000       0.000     not available
  14     0.000         --          --          --          --          --         REMOVED     --        336.4       0.000
1.000       1.000       0.000       0.000       0.000       0.000       0.000     not available
  15     0.000         --          --          --          --          --         REMOVED     --        336.2       0.000
1.000       1.000       0.000       0.000       0.000       0.000       0.000     not available
  16     0.000         --          --          --          --          --         REMOVED     --        336.0       0.000
1.000       1.000       0.000       0.000       0.000       0.000       0.000     not available
  17     0.000         --          --          --          --          --         REMOVED     --        335.8       0.000
1.000       1.000       0.000       0.000       0.000       0.000       0.000     not available
  18     0.000         --          --          --          --          --         REMOVED     --        335.6       0.000
1.000       1.000       0.000       0.000       0.000       0.000       0.000     not available
  19     0.000         --          --          --          --          --         REMOVED     --        335.4       0.000
1.000       1.000       0.000       0.000       0.000       0.000       0.000     not available
  20     0.000         --          --          --          --          --         REMOVED     --        335.2       0.000
1.000       1.000       0.000       0.000       0.000       0.000       0.000     not available
  21     0.000         --          --          --          --          --         REMOVED     --        335.0       0.000
1.000       1.000       0.000       0.000       0.000       0.000       0.000     not available
  22     0.000         --          --          --          --          --         REMOVED     --        334.8       0.000
1.000       1.000       0.000       0.000       0.000       0.000       0.000     not available
  23     0.000         --          --          --          --          --         REMOVED     --        334.6       0.000
1.000       1.000       0.000       0.000       0.000       0.000       0.000     not available
  24     0.000         --          --          --          --          --         REMOVED     --        334.4       0.000
1.000       1.000       0.000       0.000       0.000       0.000       0.000     not available
  25     0.000         --          --          --          --          --         REMOVED     --        334.2       0.000
1.000       1.000       0.000       0.000       0.000       0.000       0.000     not available
  26     0.000         --          --          --          --          --         REMOVED     --        334.0       0.000
1.000       1.000       0.000       0.000       0.000       0.000       0.000     not available
  27     0.000         --          --          --          --          --         REMOVED     --        333.8       0.000
1.000       1.000       0.000       0.000       0.000       0.000       0.000     not available
  28     0.000         --          --          --          --          --         REMOVED     --        333.6       0.000
1.000       1.000       0.000       0.000       0.000       0.000       0.000     not available
  29     0.000         --          --          --          --          --         REMOVED     --        333.4       0.000
1.000       1.000       0.000       0.000       0.000       0.000       0.000     not available
  30     0.000         --          --          --          --          --         REMOVED     --        333.2       0.000
1.000       1.000       0.000       0.000       0.000       0.000       0.000     not available
  31 D   7.385      2.5672E-03  8.0000E-03   36.93       146.9       82.53         PASSIVE   0.000       333.0       0.000
1.000       1.000       36.93       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  32 D   10.11      2.4491E-03   4.008       50.54       148.9       83.66         PASSIVE   0.000       332.8       0.000
```

```
1.000       1.000       50.54       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  33 D   12.83       2.3326E-03   8.008       64.16       150.9       84.79        PASSIVE   0.000       332.6       0.000
1.000       1.000       64.16       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  34 D   14.84       2.2181E-03   10.52       72.71       152.9       85.92        PASSIVE   0.000       332.4       1.488
1.000       1.000       74.20       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  35 D   16.09       2.1059E-03   11.46       75.90       154.9       87.05        PASSIVE   0.000       332.2       4.550
1.000       1.000       80.45       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  36 D   17.34       1.9960E-03   12.40       79.10       156.9       88.18        PASSIVE   0.000       332.0       7.612
1.000       1.000       86.71       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  37 D   18.59       1.8887E-03   13.33       82.29       158.9       89.31        PASSIVE   0.000       331.8       10.67
1.000       1.000       92.96       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  38 D   19.84       1.7842E-03   14.27       85.48       160.9       90.44        PASSIVE   0.000       331.6       13.74
1.000       1.000       99.22       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  39 D   21.10       1.6827E-03   15.21       88.68       162.9       91.56        PASSIVE   0.000       331.4       16.80
1.000       1.000       105.5       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  40 D   22.35       1.5845E-03   16.15       91.87       164.9       92.69        PASSIVE   0.000       331.2       19.86
1.000       1.000       111.7       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  41 D   22.06       1.4895E-03   17.09       87.37       166.9       87.37          V-C  1.5320E+04   331.0       22.92
1.000       1.000       110.3       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  42 D   22.50       1.3981E-03   19.48       87.47       169.4       87.47          V-C  1.5320E+04   330.8       25.03
1.000       1.000       112.5       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  43 D   22.95       1.3103E-03   21.88       87.61       171.9       87.61          V-C  1.5320E+04   330.6       27.13
1.000       1.000       114.7       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  44 D   23.40       1.2262E-03   24.27       87.78       174.4       87.78          V-C  1.5320E+04   330.4       29.24
1.000       1.000       117.0       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  45 D   23.67       1.1458E-03   26.67       86.99       176.9       88.47         UL-RL  4.5960E+04   330.2       31.35
1.000       1.000       118.3       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  46 D   23.74       1.0692E-03   29.06       85.24       179.5       89.73         UL-RL  4.5960E+04   330.0       33.45
1.000       1.000       118.7       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  47 D   23.83       9.9631E-04   31.45       83.61       182.0       90.98         UL-RL  4.5960E+04   329.8       35.56
1.000       1.000       119.2       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  48 D   23.95       9.2716E-04   33.85       82.11       184.5       92.23         UL-RL  4.5960E+04   329.6       37.66
1.000       1.000       119.8       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  49 D   24.10       8.6165E-04   36.24       80.75       187.0       93.48         UL-RL  4.5960E+04   329.4       39.77
1.000       1.000       120.5       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  50 D   24.28       7.9968E-04   38.64       79.52       189.5       94.73         UL-RL  4.5960E+04   329.2       41.88
1.000       1.000       121.4       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  51 D   24.48       7.4114E-04   41.03       78.43       192.0       95.98         UL-RL  4.5960E+04   329.0       43.98
1.000       1.000       122.4       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  52 D   24.71       6.8592E-04   43.42       77.46       194.5       97.23         UL-RL  4.5960E+04   328.8       46.09
1.000       1.000       123.6       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  53 D   24.96       6.3386E-04   45.82       76.62       197.0       98.48         UL-RL  4.5960E+04   328.6       48.20
1.000       1.000       124.8       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  54 D   25.24       5.8482E-04   48.21       75.90       199.5       99.73         UL-RL  4.5960E+04   328.4       50.30
1.000       1.000       126.2       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  55 D   25.54       5.3861E-04   50.61       75.29       202.0       101.0         UL-RL  4.5960E+04   328.2       52.41
1.000       1.000       127.7       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  56 D   25.86       4.9511E-04   53.00       74.80       204.5       102.2         UL-RL  4.5960E+04   328.0       54.52
1.000       1.000       129.3       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  57 D   26.20       4.5412E-04   55.39       74.40       207.0       103.5         UL-RL  4.5960E+04   327.8       56.62
1.000       1.000       131.0       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  58 D   26.57       4.1546E-04   57.79       74.10       209.5       104.7         UL-RL  4.5960E+04   327.6       58.73
1.000       1.000       132.8       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  59 D   26.94       3.7896E-04   60.18       73.88       212.0       106.0         UL-RL  4.5960E+04   327.4       60.83
1.000       1.000       134.7       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  60 D   27.34       3.4442E-04   62.58       73.75       214.5       107.2         UL-RL  4.5960E+04   327.2       62.94
1.000       1.000       136.7       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  61 D   27.75       3.1167E-04   64.97       73.68       217.0       108.5         UL-RL  4.5960E+04   327.0       65.05
1.000       1.000       138.7       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  62 D   28.17       2.8054E-04   67.36       73.68       219.5       109.7         UL-RL  4.5960E+04   326.8       67.15
1.000       1.000       140.8       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
```

63 D	28.60	2.5082E-04	69.76	73.74	222.0	111.0	UL-RL	4.5960E+04	326.6	69.26
1.000	1.000	143.0	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
64 D	29.04	2.2239E-04	72.15	73.85	224.5	112.2	UL-RL	4.5960E+04	326.4	71.37
1.000	1.000	145.2	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
65 D	29.49	1.9506E-04	74.55	74.00	227.0	113.5	UL-RL	4.5960E+04	326.2	73.47
1.000	1.000	147.5	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
66 D	29.95	1.6868E-04	76.94	74.19	229.5	114.7	UL-RL	4.5960E+04	326.0	75.58
1.000	1.000	149.8	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
67 D	30.42	1.4310E-04	79.33	74.40	232.0	116.0	UL-RL	4.5960E+04	325.8	77.68
1.000	1.000	152.1	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
68 D	30.89	1.1818E-04	81.73	74.64	234.5	117.2	UL-RL	4.5960E+04	325.6	79.79
1.000	1.000	154.4	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
69 D	31.36	9.3792E-05	84.12	74.90	237.0	118.5	UL-RL	4.5960E+04	325.4	81.90
1.000	1.000	156.8	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
70 D	31.84	6.9821E-05	86.52	75.18	239.5	119.7	UL-RL	4.5960E+04	325.2	84.00
1.000	1.000	159.2	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
71 D	32.31	4.6150E-05	88.91	75.46	242.0	121.0	UL-RL	4.5960E+04	325.0	86.11
1.000	1.000	161.6	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
72 D	32.79	2.2713E-05	91.30	75.75	244.5	122.2	UL-RL	4.5960E+04	324.8	88.22
1.000	1.000	164.0	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
73 D	33.27	-5.7891E-07	93.70	76.03	247.0	123.5	UL-RL	4.5960E+04	324.6	90.32
1.000	1.000	166.4	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
74 D	33.75	-2.3786E-05	96.09	76.32	249.5	124.7	UL-RL	4.5960E+04	324.4	92.43
1.000	1.000	168.8	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
75 D	34.23	-4.6953E-05	98.49	76.61	252.0	126.0	UL-RL	4.5960E+04	324.2	94.53
1.000	1.000	171.1	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
76 D	17.35	-7.0003E-05	100.9	76.89	254.5	127.2	UL-RL	4.5960E+04	324.0	96.63
1.000	1.000	173.5	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						

New Project

S T R E S S   R E S U L T S   F O R   G R O U P   N O.   3

Pali1500_253215   :
ELEMENT TYPE   2 NO.OF ELEMENTS. IN THIS GROUP   75
C U R R E N T   T I M E   I S   3.0000 SUBINCREMENT 00001/00001

 WALL2D ELEMENT

EL	TA	TB	MA	MB
1	-1.19736E-09	1.19736E-09	-1.19282E-10	8.88471E-10
2	-1.53409E-09	1.53409E-09	-1.16178E-09	8.30162E-10
3	3.13212E-09	-3.13212E-09	-6.72778E-10	2.00906E-09
4	-4.41918E-09	4.41918E-09	-2.13807E-09	6.76506E-10
5	1.81842E-09	-1.81842E-09	-9.36781E-10	2.08595E-09
6	-8.26272E-11	8.26272E-11	-1.91563E-09	2.38201E-09
7	-4.74513E-10	4.74513E-10	-2.44132E-09	2.26580E-09
8	-1.46397E-09	1.46397E-09	-2.46500E-09	1.30305E-09
9	6.57623E-02	-6.57623E-02	-1.23531E-09	1.31525E-02
10	0.31915	-0.31915	-1.31525E-02	7.69823E-02
11	0.79568	-0.79568	-7.69823E-02	0.23612
12	1.6441	-1.6441	-0.23612	0.56494
13	2.8645	-2.8645	-0.56494	1.1381
14	4.4570	-4.4570	-1.1381	2.0295
15	6.4214	-6.4214	-2.0295	3.3138
16	8.7578	-8.7578	-3.3138	5.0654
17	11.466	-11.466	-5.0654	7.3586
18	14.546	-14.546	-7.3586	10.268
19	17.998	-17.998	-10.268	13.868
20	21.823	-21.823	-13.868	18.232
21	27.663	-27.663	-18.232	23.767
22	33.992	-33.992	-23.767	30.566
23	40.809	-40.809	-30.566	38.727
24	48.114	-48.114	-38.727	48.350
25	55.908	-55.908	-48.350	59.532
26	64.190	-64.190	-59.532	72.370
27	72.960	-72.960	-72.370	86.962
28	82.219	-82.219	-86.962	103.41
29	91.966	-91.966	-103.41	121.81
30	102.20	-102.20	-121.81	142.25
31	105.54	-105.54	-142.25	163.36
32	106.64	-106.64	-163.36	184.68
33	105.51	-105.51	-184.68	205.79
34	102.86	-102.86	-205.79	226.36
35	99.447	-99.447	-226.36	246.25
36	95.271	-95.271	-246.25	265.30
37	90.331	-90.331	-265.30	283.38
38	84.629	-84.629	-283.38	300.30
39	78.164	-78.164	-300.30	315.94
40	70.936	-70.936	-315.94	330.12
41	54.950	-54.950	-330.12	341.11
42	38.899	-38.899	-341.11	348.89
43	22.779	-22.779	-348.89	353.45
44	6.8380	-6.8380	-353.45	354.82
45	-7.7478	7.7478	-354.82	353.27
46	-20.829	20.829	-353.27	349.10
47	-32.475	32.475	-349.10	342.60
48	-42.761	42.761	-342.60	334.05
49	-51.758	51.758	-334.05	323.70
50	-59.535	59.535	-323.70	311.79
51	-66.162	66.162	-311.79	298.56
52	-71.704	71.704	-298.56	284.22
53	-76.227	76.227	-284.22	268.98
54	-79.790	79.790	-268.98	253.01
55	-82.451	82.451	-253.01	236.52
56	-84.265	84.265	-236.52	219.67
57	-85.284	85.284	-219.67	202.61
58	-85.554	85.554	-202.61	185.50
59	-85.120	85.120	-185.50	168.47
60	-84.021	84.021	-168.47	151.67
61	-82.294	82.294	-151.67	135.21
62	-79.971	79.971	-135.21	119.21
63	-77.082	77.082	-119.21	103.79
64	-73.651	73.651	-103.79	89.063
65	-69.702	69.702	-89.063	75.123
66	-65.253	65.253	-75.123	62.072
67	-60.320	60.320	-62.072	50.008
68	-54.916	54.916	-50.008	39.025
69	-49.051	49.051	-39.025	29.214
70	-42.733	42.733	-29.214	20.663

```
   71 -35.968      35.968     -20.663      13.470
   72 -28.759      28.759     -13.470      7.7180
   73 -21.108      21.108     -7.7180      3.4964
   74 -13.017      13.017     -3.4964     0.89302
   75 -4.4853      4.4853    -0.89302    -2.55257E-12

ITER     0 RNORM = 0.000     RMNORM= 0.000
           RINORM=0.5824E+06 RIMNOR=0.5006E+07
           RENORM=0.2961E-15 REMNOR=0.8831E-18 RATIO =0.2255E-10 TOLER =0.1000E-03      CONVERGED !
           RFMAX = 106.6     RMMAX = 354.8
           RTSMAL=0.1000E-02 RMSMAL=0.1000E-02
           RDT   =0.5824E+06 RDR   =0.5006E+07
           RATIOT=0.2255E-10 RATIOR= 0.000
           MAX UN=0.7551E-08 IEQ=     7 NODE      4 DOF   1  Y-DISPL.F
           MIN UN=-.6264E-08 IEQ=    37 NODE     19 DOF   1  Y-DISPL.F
           NO. OF CONTACT CONSTRAINT VIOLATIONS     0


ITER     1 RNORM = 0.000     RMNORM= 0.000
           RINORM=0.5824E+06 RIMNOR=0.5006E+07
           RENORM=0.3086E-15 REMNOR=0.8494E-18 RATIO =0.2302E-10 TOLER =0.1000E-03      CONVERGED !
           RFMAX = 106.6     RMMAX = 354.8
           RTSMAL=0.1000E-02 RMSMAL=0.1000E-02
           RDT   =0.5824E+06 RDR   =0.5006E+07
           RATIOT=0.2302E-10 RATIOR= 0.000
           MAX UN=0.7352E-08 IEQ=    29 NODE     15 DOF   1  Y-DISPL.F
           MIN UN=-.7237E-08 IEQ=    27 NODE     14 DOF   1  Y-DISPL.F
           NO. OF CONTACT CONSTRAINT VIOLATIONS     0


ITER     2 RNORM = 0.000     RMNORM= 0.000
           RINORM=0.5824E+06 RIMNOR=0.5006E+07
           RENORM=0.2993E-15 REMNOR=0.1016E-17 RATIO =0.2267E-10 TOLER =0.1000E-03      CONVERGED !
           RFMAX = 106.6     RMMAX = 354.8
           RTSMAL=0.1000E-02 RMSMAL=0.1000E-02
           RDT   =0.5824E+06 RDR   =0.5006E+07
           RATIOT=0.2267E-10 RATIOR= 0.000
           MAX UN=0.7352E-08 IEQ=    29 NODE     15 DOF   1  Y-DISPL.F
           MIN UN=-.7237E-08 IEQ=    27 NODE     14 DOF   1  Y-DISPL.F
           NO. OF CONTACT CONSTRAINT VIOLATIONS     0
```

```
+-----------------------------------------------------------------------------------------------------------------------+
|                  PARATIEPLUS(TM)   NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*             |
|                                                                                                                       |
|                                                ParatiePlus                                                            |
|                                  Exe Time :28 January 2022   16:22:48                                                 |
+-----------------------------------------------------------------------------------------------------------------------+
New Project
SOLUTION REACHED USING     2 ITERATIONS ON   80

P R I N T   O U T   F O R   T I M E   S T E P    4     ( AT TIME   4.000     ) SUBINCREMENT 00001/00001

PRINT OUT OF ACTIVE COMPONENTS (FIXED NODES ARE NOT PRINTED OUT)

          Y-DISPL.F        X-ROT. F
            02               04
    1   6.3345109E-03  -6.3304908E-04
    2   6.2079010E-03  -6.3304908E-04
    3   6.0812912E-03  -6.3304908E-04
    4   5.9546814E-03  -6.3304908E-04
    5   5.8280716E-03  -6.3304908E-04
    6   5.7013985E-03  -6.3304908E-04
    7   5.5747887E-03  -6.3304908E-04
    8   5.4481789E-03  -6.3304908E-04
    9   5.3184162E-03  -6.3304908E-04
   10   5.1918952E-03  -6.3304873E-04
   11   5.0653745E-03  -6.3304633E-04
   12   4.9388547E-03  -6.3303802E-04
   13   4.8123378E-03  -6.3301676E-04
   14   4.6857640E-03  -6.3297153E-04
   15   4.5592661E-03  -6.3288744E-04
   16   4.4327905E-03  -6.3274559E-04
   17   4.3063509E-03  -6.3252316E-04
   18   4.1799660E-03  -6.3219336E-04
   19   4.0536604E-03  -6.3172545E-04
   20   3.9274650E-03  -6.3108475E-04
   21   3.8031524E-03  -6.3023264E-04
   22   3.6771645E-03  -6.2911718E-04
   23   3.5514943E-03  -6.2767486E-04
   24   3.4261511E-03  -6.2583542E-04
   25   3.3012217E-03  -6.2352387E-04
   26   3.1768084E-03  -6.2066006E-04
   27   3.0530302E-03  -6.1715862E-04
   28   2.9300235E-03  -6.1292903E-04
   29   2.8079435E-03  -6.0787558E-04
   30   2.6869048E-03  -6.0189412E-04
   31   2.5672239E-03  -5.9488454E-04
   32   2.4490545E-03  -5.8677203E-04
   33   2.3326202E-03  -5.7753301E-04
   34   2.2181465E-03  -5.6716763E-04
   35   2.1058569E-03  -5.5569597E-04
   36   1.9959697E-03  -5.4315022E-04
   37   1.8886958E-03  -5.2957069E-04
   38   1.7841857E-03  -5.1499825E-04
   39   1.6827355E-03  -4.9950395E-04
   40   1.5844717E-03  -4.8314536E-04
   41   1.4894918E-03  -4.6599517E-04
   42   1.3980683E-03  -4.4817663E-04
   43   1.3102612E-03  -4.2985983E-04
   44   1.2261531E-03  -4.1121557E-04
   45   1.1457924E-03  -3.9241406E-04
   46   1.0691941E-03  -3.7361739E-04
   47   9.9630674E-04  -3.5496317E-04
   48   9.2715949E-04  -3.3660132E-04
   49   8.6164649E-04  -3.1863892E-04
   50   7.9967738E-04  -3.0117834E-04
   51   7.4114267E-04  -2.8430863E-04
   52   6.8591634E-04  -2.6810626E-04
   53   6.3385828E-04  -2.5263585E-04
   54   5.8481655E-04  -2.3795083E-04
   55   5.3860723E-04  -2.2408740E-04
   56   4.9510729E-04  -2.1109248E-04
   57   4.5411814E-04  -1.9898268E-04
   58   4.1546111E-04  -1.8777304E-04
   59   3.7895536E-04  -1.7747041E-04
   60   3.4441945E-04  -1.6807391E-04
   61   3.1167284E-04  -1.5957540E-04
   62   2.8053733E-04  -1.5195989E-04
   63   2.5082384E-04  -1.4520269E-04
   64   2.2239238E-04  -1.3928290E-04
   65   1.9506424E-04  -1.3416338E-04
   66   1.6868320E-04  -1.2980494E-04
   67   1.4310141E-04  -1.2616301E-04
   68   1.1818046E-04  -1.2318776E-04
   69   9.3792423E-05  -1.2082433E-04
   70   6.9820837E-05  -1.1901288E-04
   71   4.6149926E-05  -1.1768818E-04
   72   2.2712718E-05  -1.1678210E-04
   73  -5.7891257E-07  -1.1621965E-04
   74  -2.3785884E-05  -1.1592196E-04
```

```
75  -4.6952865E-05  -1.1580544E-04
76  -7.0003157E-05  -1.1578184E-04
```

```
+-----------------------------------------------------------------------------------------------------------------------------+
|                  PARATIEPLUS(TM)   NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*                    |
|                                                                                                                             |
|                                              ParatiePlus                                                                    |
|                                    Exe Time :28 January 2022   16:22:48                                                     |
+-----------------------------------------------------------------------------------------------------------------------------+
New Project


S T R E S S   R E S U L T S   F O R   G R O U P   N O.   1

0_L                                                    :
ELEMENT TYPE    5 NO.OF ELEMENTS. IN THIS GROUP   76
C U R R E N T   T I M E   I S      4.0000 SUBINCREMENT 00001/00001

 HARDENING 2D SOIL ELEMENT

 ****** TOTAL STRESS FORMULATION *****

  EL *   FORCE     DISPL-Y  VERTICAL-P  HORIZON.-P     MAX-V-P     MAX-H-P          STATE   STIFFNESS Z-LEVEL      PORE       E FAC-
TOR    UFACTOR       Peq          Su_a        Su_p        Cohe_a      Cohe_p     LAYER                              ZFO         QS
QSL          ZD          ZPL          Kz
 ------------------------------------------------------------------------------------------------------------------------------
-----------------------------------------------------------------------------------------------------------------------------
-----------------------------------------------
   1 D  9.4053E-13 -6.3345E-03   0.000      9.4053E-12   76.00       38.00          UL-RL  2.6512E+04   339.0       0.000
1.000       1.000      9.4053E-12   0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000       0.0000      0.0000      0.0000
   2 D  1.8167E-12 -6.2079E-03   3.800      9.0834E-12   79.80       39.90          UL-RL  2.6512E+04   338.8       0.000
1.000       1.000      9.0834E-12   0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000       0.0000      0.0000      0.0000
   3 D  1.7523E-12 -6.0813E-03   7.600      8.7614E-12   83.60       41.80          UL-RL  2.6512E+04   338.6       0.000
1.000       1.000      8.7614E-12   0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000       0.0000      0.0000      0.0000
   4 D  1.6833E-12 -5.9547E-03   11.40      8.4165E-12   87.40       43.70          UL-RL  2.6512E+04   338.4       0.000
1.000       1.000      8.4165E-12   0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000       0.0000      0.0000      0.0000
   5 D  1.6235E-12 -5.8281E-03   15.20      8.1175E-12   91.20       45.60          UL-RL  2.6512E+04   338.2       0.000
1.000       1.000      8.1175E-12   0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000       0.0000      0.0000      0.0000
   6 D  1.5545E-12 -5.7014E-03   19.00      7.7726E-12   95.00       47.50          UL-RL  2.6512E+04   338.0       0.000
1.000       1.000      7.7726E-12   0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000       0.0000      0.0000      0.0000
   7 D  1.4901E-12 -5.5748E-03   22.80      7.4507E-12   98.80       49.40          UL-RL  2.6512E+04   337.8       0.000
1.000       1.000      7.4507E-12   0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000       0.0000      0.0000      0.0000
   8 D  1.4257E-12 -5.4482E-03   26.60      7.1287E-12   102.6       51.30          UL-RL  2.6512E+04   337.6       0.000
1.000       1.000      7.1287E-12   0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000       0.0000      0.0000      0.0000
   9 D  6.5762E-02 -5.3184E-03   30.07      6.8068E-12   105.7       52.96          UL-RL  2.6512E+04   337.4       0.3288
1.000       1.000       0.3288      0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000       0.0000      0.0000      0.0000
  10 D  0.2534     -5.1919E-03   32.93      6.4848E-12   107.5       53.85          UL-RL  2.6512E+04   337.2       1.267
1.000       1.000        1.267      0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000       0.0000      0.0000      0.0000
  11 D  0.4765     -5.0654E-03   35.80      0.1776       109.3       54.74          UL-RL  2.6512E+04   337.0       2.205
1.000       1.000        2.383      0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000       0.0000      0.0000      0.0000
  12 D  0.8485     -4.9389E-03   38.66       1.099       111.1       55.64          UL-RL  2.6512E+04   336.8       3.143
1.000       1.000        4.242      0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000       0.0000      0.0000      0.0000
  13 D   1.220     -4.8123E-03   41.52       2.021       112.9       56.53          UL-RL  2.6512E+04   336.6       4.081
1.000       1.000        6.102      0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000       0.0000      0.0000      0.0000
  14 D   1.593     -4.6858E-03   44.38       2.943       114.7       57.42          UL-RL  2.6512E+04   336.4       5.020
1.000       1.000        7.963      0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000       0.0000      0.0000      0.0000
  15 D   1.964     -4.5593E-03   47.25       3.864       116.4       58.31          UL-RL  2.6512E+04   336.2       5.958
1.000       1.000        9.822      0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000       0.0000      0.0000      0.0000
  16 D   2.336     -4.4328E-03   50.11       4.786       118.2       59.21          UL-RL  2.6512E+04   336.0       6.896
1.000       1.000        11.68      0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000       0.0000      0.0000      0.0000
  17 D   2.708     -4.3064E-03   52.97       5.707       120.0       60.10          UL-RL  2.6512E+04   335.8       7.834
1.000       1.000        13.54      0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000       0.0000      0.0000      0.0000
  18 D   3.080     -4.1800E-03   55.83       6.629       121.8       60.99          UL-RL  2.6512E+04   335.6       8.772
1.000       1.000        15.40      0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000       0.0000      0.0000      0.0000
  19 D   3.452     -4.0537E-03   58.69       7.550       123.6       61.88          UL-RL  2.6512E+04   335.4       9.710
1.000       1.000        17.26      0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000       0.0000      0.0000      0.0000
  20 D   3.824     -3.9275E-03   61.56       8.472       125.4       62.78          UL-RL  2.6512E+04   335.2       10.65
1.000       1.000        19.12      0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000       0.0000      0.0000      0.0000
  21 D   5.840     -3.8032E-03   64.42       17.61       127.2       71.54          UL-RL  1.2003E+05   335.0       11.59
1.000       1.000        29.20      0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000       0.0000      0.0000      0.0000
  22 D   6.329     -3.6772E-03   67.48       19.12       129.2       72.65          UL-RL  1.2003E+05   334.8       12.53
```

```
1.000       1.000       31.64       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  23 D   6.817     -3.5515E-03   70.54       20.62       131.2       73.77          UL-RL  1.2003E+05   334.6       13.46
1.000       1.000       34.09       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  24 D   7.305     -3.4262E-03   73.60       22.13       133.2       74.89          UL-RL  1.2003E+05   334.4       14.40
1.000       1.000       36.53       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  25 D   7.794     -3.3012E-03   76.67       23.63       135.2       76.00          UL-RL  1.2003E+05   334.2       15.34
1.000       1.000       38.97       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  26 D   8.282     -3.1768E-03   79.73       25.13       137.1       77.12          UL-RL  1.2003E+05   334.0       16.28
1.000       1.000       41.41       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  27 D   8.770     -3.0530E-03   82.79       26.64       139.1       78.24          UL-RL  1.2003E+05   333.8       17.22
1.000       1.000       43.85       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  28 D   9.259     -2.9300E-03   85.85       28.14       141.1       79.35          UL-RL  1.2003E+05   333.6       18.15
1.000       1.000       46.29       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  29 D   9.747     -2.8079E-03   88.91       29.64       143.1       80.47          UL-RL  1.2003E+05   333.4       19.09
1.000       1.000       48.73       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  30 D   10.24     -2.6869E-03   91.98       31.15       145.1       81.59          UL-RL  1.2003E+05   333.2       20.03
1.000       1.000       51.18       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  31 D   10.72     -2.5672E-03   95.04       32.65       147.1       82.70          UL-RL  1.2003E+05   333.0       20.97
1.000       1.000       53.62       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  32 D   11.21     -2.4491E-03   98.10       34.15       149.1       83.82          UL-RL  1.2003E+05   332.8       21.91
1.000       1.000       56.06       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  33 D   11.70     -2.3326E-03   101.2       35.66       151.1       84.93          UL-RL  1.2003E+05   332.6       22.85
1.000       1.000       58.50       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  34 D   12.19     -2.2181E-03   104.2       37.16       153.1       86.05          UL-RL  1.2003E+05   332.4       23.78
1.000       1.000       60.94       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  35 D   12.68     -2.1059E-03   107.3       38.66       155.1       87.17          UL-RL  1.2003E+05   332.2       24.72
1.000       1.000       63.38       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  36 D   13.17     -1.9960E-03   110.3       40.17       157.1       88.28          UL-RL  1.2003E+05   332.0       25.66
1.000       1.000       65.83       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  37 D   13.65     -1.8887E-03   113.4       41.67       159.0       89.40          UL-RL  1.2003E+05   331.8       26.60
1.000       1.000       68.27       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  38 D   14.14     -1.7842E-03   116.5       43.17       161.0       90.52          UL-RL  1.2003E+05   331.6       27.54
1.000       1.000       70.71       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  39 D   14.63     -1.6827E-03   119.5       44.68       163.0       91.63          UL-RL  1.2003E+05   331.4       28.47
1.000       1.000       73.15       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  40 D   15.12     -1.5845E-03   122.6       46.18       165.0       92.75          UL-RL  1.2003E+05   331.2       29.41
1.000       1.000       75.59       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  41 D   6.071     -1.4895E-03   125.7       2.6539E-14  167.0       83.51          UL-RL  6.1194E+04   331.0       30.35
1.000       1.000       30.35       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  42 D   6.449     -1.3981E-03   128.3       0.000       169.5       84.76        ACTIVE   0.000       330.8       32.25
1.000       1.000       32.25       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  43 D   6.828     -1.3103E-03   130.9       0.000       172.0       86.01          ACTIVE   0.000       330.6       34.14
1.000       1.000       34.14       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  44 D   7.462     -1.2262E-03   133.5       1.274       174.5       87.26          UL-RL  6.1194E+04   330.4       36.03
1.000       1.000       37.31       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  45 D   9.082     -1.1458E-03   136.1       7.483       177.0       88.51          UL-RL  6.1194E+04   330.2       37.93
1.000       1.000       45.41       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  46 D   10.66     -1.0692E-03   138.7       13.46       179.5       89.76          UL-RL  6.1194E+04   330.0       39.82
1.000       1.000       53.28       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  47 D   12.19     -9.9631E-04   141.3       19.21       182.0       91.01          UL-RL  6.1194E+04   329.8       41.72
1.000       1.000       60.93       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  48 D   13.67     -9.2716E-04   143.9       24.73       184.5       92.26          UL-RL  6.1194E+04   329.6       43.61
1.000       1.000       68.34       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  49 D   15.11     -8.6165E-04   146.5       30.03       187.0       93.51          UL-RL  6.1194E+04   329.4       45.50
1.000       1.000       75.54       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  50 D   16.50     -7.9968E-04   149.1       35.11       189.5       94.76          UL-RL  6.1194E+04   329.2       47.40
1.000       1.000       82.51       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  51 D   17.86     -7.4114E-04   151.7       39.98       192.0       96.01          UL-RL  6.1194E+04   329.0       49.29
1.000       1.000       89.28       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  52 D   19.17     -6.8592E-04   154.3       44.65       194.5       97.26          UL-RL  6.1194E+04   328.8       51.19
1.000       1.000       95.84       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
```

53 D	20.44	-6.3386E-04	156.9	49.13	197.0	98.51	UL-RL	6.1194E+04	328.6	53.08
1.000	1.000	102.2	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
54 D	21.68	-5.8482E-04	159.5	53.41	199.5	99.76	UL-RL	6.1194E+04	328.4	54.97
1.000	1.000	108.4	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
55 D	22.88	-5.3861E-04	162.1	57.53	202.0	101.0	UL-RL	6.1194E+04	328.2	56.87
1.000	1.000	114.4	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
56 D	24.05	-4.9511E-04	164.8	61.48	204.5	102.3	UL-RL	6.1194E+04	328.0	58.76
1.000	1.000	120.2	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
57 D	25.19	-4.5412E-04	167.4	65.27	207.0	103.5	UL-RL	6.1194E+04	327.8	60.66
1.000	1.000	125.9	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
58 D	26.29	-4.1546E-04	170.0	68.92	209.5	104.8	UL-RL	6.1194E+04	327.6	62.55
1.000	1.000	131.5	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
59 D	27.38	-3.7896E-04	172.6	72.44	212.0	106.0	UL-RL	6.1194E+04	327.4	64.44
1.000	1.000	136.9	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
60 D	28.44	-3.4442E-04	175.2	75.84	214.5	107.3	UL-RL	6.1194E+04	327.2	66.34
1.000	1.000	142.2	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
61 D	29.47	-3.1167E-04	177.8	79.13	217.0	108.5	UL-RL	6.1194E+04	327.0	68.23
1.000	1.000	147.4	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
62 D	30.49	-2.8054E-04	180.4	82.32	219.5	109.8	UL-RL	6.1194E+04	326.8	70.12
1.000	1.000	152.4	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
63 D	31.49	-2.5082E-04	183.0	85.43	222.0	111.0	UL-RL	6.1194E+04	326.6	72.02
1.000	1.000	157.4	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
64 D	32.47	-2.2239E-04	185.6	88.45	224.5	112.2	UL-RL	6.1194E+04	326.4	73.91
1.000	1.000	162.4	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
65 D	33.44	-1.9506E-04	188.2	91.41	227.0	113.5	UL-RL	6.1194E+04	326.2	75.81
1.000	1.000	167.2	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
66 D	34.40	-1.6868E-04	190.8	94.31	229.5	114.7	UL-RL	6.1194E+04	326.0	77.70
1.000	1.000	172.0	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
67 D	35.35	-1.4310E-04	193.4	97.16	232.0	116.0	UL-RL	6.1194E+04	325.8	79.59
1.000	1.000	176.8	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
68 D	36.29	-1.1818E-04	196.0	99.97	234.5	117.2	UL-RL	6.1194E+04	325.6	81.49
1.000	1.000	181.5	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
69 D	37.22	-9.3792E-05	198.6	102.7	237.0	118.5	UL-RL	6.1194E+04	325.4	83.38
1.000	1.000	186.1	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
70 D	38.15	-6.9821E-05	201.2	105.5	239.5	119.7	UL-RL	6.1194E+04	325.2	85.28
1.000	1.000	190.8	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
71 D	39.08	-4.6150E-05	203.8	108.2	242.0	121.0	UL-RL	6.1194E+04	325.0	87.17
1.000	1.000	195.4	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
72 D	40.00	-2.2713E-05	206.5	110.9	244.5	122.2	UL-RL	6.1194E+04	324.8	89.06
1.000	1.000	200.0	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
73 D	40.92	5.7891E-07	209.1	113.7	247.0	123.5	UL-RL	6.1194E+04	324.6	90.96
1.000	1.000	204.6	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
74 D	41.84	2.3786E-05	211.7	116.4	249.5	124.7	UL-RL	6.1194E+04	324.4	92.85
1.000	1.000	209.2	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
75 D	42.76	4.6953E-05	214.3	119.1	252.0	126.0	UL-RL	6.1194E+04	324.2	94.75
1.000	1.000	213.8	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
76 D	21.84	7.0003E-05	216.9	121.7	254.5	127.2	UL-RL	6.1194E+04	324.0	96.63
1.000	1.000	218.4	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						

```
+------------------------------------------------------------------------------------------------------------------------+
|                    PARATIEPLUS(TM)   NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*              |
|                                                                                                                        |
|                                                   ParatiePlus                                                          |
|                                    Exe Time :28 January 2022   16:22:48                                                |
+------------------------------------------------------------------------------------------------------------------------+
New Project


S T R E S S    R E S U L T S    F O R    G R O U P  N O.   2

0_R                                                            :
ELEMENT TYPE    5 NO.OF ELEMENTS. IN THIS GROUP   76
C U R R E N T    T I M E    I S      4.0000 SUBINCREMENT 00001/00001

 HARDENING 2D SOIL ELEMENT

 ****** TOTAL STRESS FORMULATION *****

 EL *   FORCE     DISPL-Y  VERTICAL-P  HORIZON.-P     MAX-V-P     MAX-H-P          STATE   STIFFNESS Z-LEVEL      PORE       E FAC-
TOR    UFACTOR       Peq          Su_a        Su_p        Cohe_a      Cohe_p     LAYER                                ZFO         QS
QSL         ZD          ZPL          Kz
------------------------------------------------------------------------------------------------------------------------------------
------------------------------------------------------------------------------------------------------------------------------------
---------------------------------------------
   1    0.000       --         --          --          --          --          REMOVED     --        339.0       0.000
1.000       1.000      0.000      0.000      0.000      0.000      0.000     not available
   2    0.000       --         --          --          --          --          REMOVED     --        338.8       0.000
1.000       1.000      0.000      0.000      0.000      0.000      0.000     not available
   3    0.000       --         --          --          --          --          REMOVED     --        338.6       0.000
1.000       1.000      0.000      0.000      0.000      0.000      0.000     not available
   4    0.000       --         --          --          --          --          REMOVED     --        338.4       0.000
1.000       1.000      0.000      0.000      0.000      0.000      0.000     not available
   5    0.000       --         --          --          --          --          REMOVED     --        338.2       0.000
1.000       1.000      0.000      0.000      0.000      0.000      0.000     not available
   6    0.000       --         --          --          --          --          REMOVED     --        338.0       0.000
1.000       1.000      0.000      0.000      0.000      0.000      0.000     not available
   7    0.000       --         --          --          --          --          REMOVED     --        337.8       0.000
1.000       1.000      0.000      0.000      0.000      0.000      0.000     not available
   8    0.000       --         --          --          --          --          REMOVED     --        337.6       0.000
1.000       1.000      0.000      0.000      0.000      0.000      0.000     not available
   9    0.000       --         --          --          --          --          REMOVED     --        337.4       0.000
1.000       1.000      0.000      0.000      0.000      0.000      0.000     not available
  10    0.000       --         --          --          --          --          REMOVED     --        337.2       0.000
1.000       1.000      0.000      0.000      0.000      0.000      0.000     not available
  11    0.000       --         --          --          --          --          REMOVED     --        337.0       0.000
1.000       1.000      0.000      0.000      0.000      0.000      0.000     not available
  12    0.000       --         --          --          --          --          REMOVED     --        336.8       0.000
1.000       1.000      0.000      0.000      0.000      0.000      0.000     not available
  13    0.000       --         --          --          --          --          REMOVED     --        336.6       0.000
1.000       1.000      0.000      0.000      0.000      0.000      0.000     not available
  14    0.000       --         --          --          --          --          REMOVED     --        336.4       0.000
1.000       1.000      0.000      0.000      0.000      0.000      0.000     not available
  15    0.000       --         --          --          --          --          REMOVED     --        336.2       0.000
1.000       1.000      0.000      0.000      0.000      0.000      0.000     not available
  16    0.000       --         --          --          --          --          REMOVED     --        336.0       0.000
1.000       1.000      0.000      0.000      0.000      0.000      0.000     not available
  17    0.000       --         --          --          --          --          REMOVED     --        335.8       0.000
1.000       1.000      0.000      0.000      0.000      0.000      0.000     not available
  18    0.000       --         --          --          --          --          REMOVED     --        335.6       0.000
1.000       1.000      0.000      0.000      0.000      0.000      0.000     not available
  19    0.000       --         --          --          --          --          REMOVED     --        335.4       0.000
1.000       1.000      0.000      0.000      0.000      0.000      0.000     not available
  20    0.000       --         --          --          --          --          REMOVED     --        335.2       0.000
1.000       1.000      0.000      0.000      0.000      0.000      0.000     not available
  21    0.000       --         --          --          --          --          REMOVED     --        335.0       0.000
1.000       1.000      0.000      0.000      0.000      0.000      0.000     not available
  22    0.000       --         --          --          --          --          REMOVED     --        334.8       0.000
1.000       1.000      0.000      0.000      0.000      0.000      0.000     not available
  23    0.000       --         --          --          --          --          REMOVED     --        334.6       0.000
1.000       1.000      0.000      0.000      0.000      0.000      0.000     not available
  24    0.000       --         --          --          --          --          REMOVED     --        334.4       0.000
1.000       1.000      0.000      0.000      0.000      0.000      0.000     not available
  25    0.000       --         --          --          --          --          REMOVED     --        334.2       0.000
1.000       1.000      0.000      0.000      0.000      0.000      0.000     not available
  26    0.000       --         --          --          --          --          REMOVED     --        334.0       0.000
1.000       1.000      0.000      0.000      0.000      0.000      0.000     not available
  27    0.000       --         --          --          --          --          REMOVED     --        333.8       0.000
1.000       1.000      0.000      0.000      0.000      0.000      0.000     not available
  28    0.000       --         --          --          --          --          REMOVED     --        333.6       0.000
1.000       1.000      0.000      0.000      0.000      0.000      0.000     not available
  29    0.000       --         --          --          --          --          REMOVED     --        333.4       0.000
1.000       1.000      0.000      0.000      0.000      0.000      0.000     not available
  30    0.000       --         --          --          --          --          REMOVED     --        333.2       0.000
1.000       1.000      0.000      0.000      0.000      0.000      0.000     not available
  31 D  7.385     2.5672E-03  8.0000E-03   36.93       146.9       82.53         UL-RL  9.3730E+04   333.0       0.000
1.000       1.000      36.93      0.000      0.000      10.00      10.00     Salt_1270_202756_L_0                0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  32 D  10.11     2.4491E-03   4.008       50.54       148.9       83.66         UL-RL  9.3730E+04   332.8       0.000
```

```
1.000       1.000       50.54       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  33 D   12.83      2.3326E-03   8.008       64.16       150.9       84.79          UL-RL  9.3730E+04   332.6       0.000
1.000       1.000       64.16       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  34 D   14.84      2.2181E-03   10.52       72.71       152.9       85.92          UL-RL  9.3730E+04   332.4       1.488
1.000       1.000       74.20       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  35 D   16.09      2.1059E-03   11.46       75.90       154.9       87.05          UL-RL  9.3730E+04   332.2       4.550
1.000       1.000       80.45       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  36 D   17.34      1.9960E-03   12.40       79.10       156.9       88.18          UL-RL  9.3730E+04   332.0       7.612
1.000       1.000       86.71       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  37 D   18.59      1.8887E-03   13.33       82.29       158.9       89.31          UL-RL  9.3730E+04   331.8       10.67
1.000       1.000       92.96       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  38 D   19.84      1.7842E-03   14.27       85.48       160.9       90.44          UL-RL  9.3730E+04   331.6       13.74
1.000       1.000       99.22       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  39 D   21.10      1.6827E-03   15.21       88.68       162.9       91.56          UL-RL  9.3730E+04   331.4       16.80
1.000       1.000       105.5       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  40 D   22.35      1.5845E-03   16.15       91.87       164.9       92.69          UL-RL  9.3730E+04   331.2       19.86
1.000       1.000       111.7       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  41 D   22.06      1.4895E-03   17.09       87.37       166.9       87.37          UL-RL  4.5960E+04   331.0       22.92
1.000       1.000       110.3       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  42 D   22.50      1.3981E-03   19.48       87.47       169.4       87.47           V-C  1.5320E+04   330.8       25.03
1.000       1.000       112.5       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  43 D   22.95      1.3103E-03   21.88       87.61       171.9       87.61           V-C  1.5320E+04   330.6       27.13
1.000       1.000       114.7       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  44 D   23.40      1.2262E-03   24.27       87.78       174.4       87.78           V-C  1.5320E+04   330.4       29.24
1.000       1.000       117.0       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  45 D   23.67      1.1458E-03   26.67       86.99       176.9       88.47          UL-RL  4.5960E+04   330.2       31.35
1.000       1.000       118.3       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  46 D   23.74      1.0692E-03   29.06       85.24       179.5       89.73          UL-RL  4.5960E+04   330.0       33.45
1.000       1.000       118.7       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  47 D   23.83      9.9631E-04   31.45       83.61       182.0       90.98          UL-RL  4.5960E+04   329.8       35.56
1.000       1.000       119.2       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  48 D   23.95      9.2716E-04   33.85       82.11       184.5       92.23          UL-RL  4.5960E+04   329.6       37.66
1.000       1.000       119.8       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  49 D   24.10      8.6165E-04   36.24       80.75       187.0       93.48          UL-RL  4.5960E+04   329.4       39.77
1.000       1.000       120.5       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  50 D   24.28      7.9968E-04   38.64       79.52       189.5       94.73          UL-RL  4.5960E+04   329.2       41.88
1.000       1.000       121.4       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  51 D   24.48      7.4114E-04   41.03       78.43       192.0       95.98          UL-RL  4.5960E+04   329.0       43.98
1.000       1.000       122.4       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  52 D   24.71      6.8592E-04   43.42       77.46       194.5       97.23          UL-RL  4.5960E+04   328.8       46.09
1.000       1.000       123.6       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  53 D   24.96      6.3386E-04   45.82       76.62       197.0       98.48          UL-RL  4.5960E+04   328.6       48.20
1.000       1.000       124.8       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  54 D   25.24      5.8482E-04   48.21       75.90       199.5       99.73          UL-RL  4.5960E+04   328.4       50.30
1.000       1.000       126.2       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  55 D   25.54      5.3861E-04   50.61       75.29       202.0       101.0          UL-RL  4.5960E+04   328.2       52.41
1.000       1.000       127.7       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  56 D   25.86      4.9511E-04   53.00       74.80       204.5       102.2          UL-RL  4.5960E+04   328.0       54.52
1.000       1.000       129.3       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  57 D   26.20      4.5412E-04   55.39       74.40       207.0       103.5          UL-RL  4.5960E+04   327.8       56.62
1.000       1.000       131.0       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  58 D   26.57      4.1546E-04   57.79       74.10       209.5       104.7          UL-RL  4.5960E+04   327.6       58.73
1.000       1.000       132.8       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  59 D   26.94      3.7896E-04   60.18       73.88       212.0       106.0          UL-RL  4.5960E+04   327.4       60.83
1.000       1.000       134.7       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  60 D   27.34      3.4442E-04   62.58       73.75       214.5       107.2          UL-RL  4.5960E+04   327.2       62.94
1.000       1.000       136.7       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  61 D   27.75      3.1167E-04   64.97       73.68       217.0       108.5          UL-RL  4.5960E+04   327.0       65.05
1.000       1.000       138.7       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  62 D   28.17      2.8054E-04   67.36       73.68       219.5       109.7          UL-RL  4.5960E+04   326.8       67.15
1.000       1.000       140.8       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
```

63 D	28.60	2.5082E-04	69.76	73.74	222.0	111.0	UL-RL	4.5960E+04	326.6	69.26
1.000	1.000	143.0	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
64 D	29.04	2.2239E-04	72.15	73.85	224.5	112.2	UL-RL	4.5960E+04	326.4	71.37
1.000	1.000	145.2	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
65 D	29.49	1.9506E-04	74.55	74.00	227.0	113.5	UL-RL	4.5960E+04	326.2	73.47
1.000	1.000	147.5	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
66 D	29.95	1.6868E-04	76.94	74.19	229.5	114.7	UL-RL	4.5960E+04	326.0	75.58
1.000	1.000	149.8	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
67 D	30.42	1.4310E-04	79.33	74.40	232.0	116.0	UL-RL	4.5960E+04	325.8	77.68
1.000	1.000	152.1	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
68 D	30.89	1.1818E-04	81.73	74.64	234.5	117.2	UL-RL	4.5960E+04	325.6	79.79
1.000	1.000	154.4	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
69 D	31.36	9.3792E-05	84.12	74.90	237.0	118.5	UL-RL	4.5960E+04	325.4	81.90
1.000	1.000	156.8	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
70 D	31.84	6.9821E-05	86.52	75.18	239.5	119.7	UL-RL	4.5960E+04	325.2	84.00
1.000	1.000	159.2	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
71 D	32.31	4.6150E-05	88.91	75.46	242.0	121.0	UL-RL	4.5960E+04	325.0	86.11
1.000	1.000	161.6	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
72 D	32.79	2.2713E-05	91.30	75.75	244.5	122.2	UL-RL	4.5960E+04	324.8	88.22
1.000	1.000	164.0	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
73 D	33.27	-5.7891E-07	93.70	76.03	247.0	123.5	UL-RL	4.5960E+04	324.6	90.32
1.000	1.000	166.4	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
74 D	33.75	-2.3786E-05	96.09	76.32	249.5	124.7	UL-RL	4.5960E+04	324.4	92.43
1.000	1.000	168.8	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
75 D	34.23	-4.6953E-05	98.49	76.61	252.0	126.0	UL-RL	4.5960E+04	324.2	94.53
1.000	1.000	171.1	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
76 D	17.35	-7.0003E-05	100.9	76.89	254.5	127.2	UL-RL	4.5960E+04	324.0	96.63
1.000	1.000	173.5	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						

New Project

S T R E S S   R E S U L T S   F O R   G R O U P   N O.   3

Pali1500_253215   :
ELEMENT TYPE   2 NO.OF ELEMENTS. IN THIS GROUP   75
C U R R E N T   T I M E   I S   4.0000 SUBINCREMENT 00001/00001

 WALL2D ELEMENT

EL	TA	TB	MA	MB
1	-4.62192E-10	4.62192E-10	-4.57650E-11	9.61988E-10
2	-7.98923E-10	7.98923E-10	-1.08827E-09	9.03679E-10
3	-1.03383E-09	1.03383E-09	-1.08937E-09	1.59246E-09
4	1.21712E-09	-1.21712E-09	-1.57444E-09	1.24014E-09
5	-2.30667E-09	2.30667E-09	-1.34950E-09	1.67324E-09
6	6.52542E-10	-6.52542E-10	-1.84211E-09	2.45553E-09
7	1.99392E-10	-1.99392E-10	-2.37188E-09	2.33114E-09
8	-1.03512E-09	1.03512E-09	-2.41599E-09	1.33981E-09
9	6.57623E-02	-6.57623E-02	-1.21897E-09	1.31525E-02
10	0.31915	-0.31915	-1.31525E-02	7.69823E-02
11	0.79568	-0.79568	-7.69823E-02	0.23612
12	1.6441	-1.6441	-0.23612	0.56494
13	2.8645	-2.8645	-0.56494	1.1381
14	4.4570	-4.4570	-1.1381	2.0295
15	6.4214	-6.4214	-2.0295	3.3138
16	8.7578	-8.7578	-3.3138	5.0654
17	11.466	-11.466	-5.0654	7.3586
18	14.546	-14.546	-7.3586	10.268
19	17.998	-17.998	-10.268	13.868
20	21.823	-21.823	-13.868	18.232
21	27.663	-27.663	-18.232	23.767
22	33.992	-33.992	-23.767	30.566
23	40.809	-40.809	-30.566	38.727
24	48.114	-48.114	-38.727	48.350
25	55.908	-55.908	-48.350	59.532
26	64.190	-64.190	-59.532	72.370
27	72.960	-72.960	-72.370	86.962
28	82.219	-82.219	-86.962	103.41
29	91.966	-91.966	-103.41	121.81
30	102.20	-102.20	-121.81	142.25
31	105.54	-105.54	-142.25	163.36
32	106.64	-106.64	-163.36	184.68
33	105.51	-105.51	-184.68	205.79
34	102.86	-102.86	-205.79	226.36
35	99.447	-99.447	-226.36	246.25
36	95.271	-95.271	-246.25	265.30
37	90.331	-90.331	-265.30	283.38
38	84.629	-84.629	-283.38	300.30
39	78.164	-78.164	-300.30	315.94
40	70.936	-70.936	-315.94	330.12
41	54.950	-54.950	-330.12	341.11
42	38.899	-38.899	-341.11	348.89
43	22.779	-22.779	-348.89	353.45
44	6.8380	-6.8380	-353.45	354.82
45	-7.7478	7.7478	-354.82	353.27
46	-20.829	20.829	-353.27	349.10
47	-32.475	32.475	-349.10	342.60
48	-42.761	42.761	-342.60	334.05
49	-51.758	51.758	-334.05	323.70
50	-59.535	59.535	-323.70	311.79
51	-66.162	66.162	-311.79	298.56
52	-71.704	71.704	-298.56	284.22
53	-76.227	76.227	-284.22	268.98
54	-79.790	79.790	-268.98	253.01
55	-82.451	82.451	-253.01	236.52
56	-84.265	84.265	-236.52	219.67
57	-85.284	85.284	-219.67	202.61
58	-85.554	85.554	-202.61	185.50
59	-85.120	85.120	-185.50	168.47
60	-84.021	84.021	-168.47	151.67
61	-82.294	82.294	-151.67	135.21
62	-79.971	79.971	-135.21	119.21
63	-77.082	77.082	-119.21	103.79
64	-73.651	73.651	-103.79	89.063
65	-69.702	69.702	-89.063	75.123
66	-65.253	65.253	-75.123	62.072
67	-60.320	60.320	-62.072	50.008
68	-54.916	54.916	-50.008	39.025
69	-49.051	49.051	-39.025	29.214
70	-42.733	42.733	-29.214	20.663

71	-35.968	35.968	-20.663	13.470
72	-28.759	28.759	-13.470	7.7180
73	-21.108	21.108	-7.7180	3.4964
74	-13.017	13.017	-3.4964	0.89302
75	-4.4853	4.4853	-0.89302	5.59254E-13

```
+-------------------------------------------------------------------------------------------------------------------------+
|                   PARATIEPLUS(TM)   NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*              |
|                                                                                                                         |
|                                                ParatiePlus                                                              |
|                                 Exe Time :28 January 2022   16:22:48                                                    |
+-------------------------------------------------------------------------------------------------------------------------+


     F I N A L    I N C R E M E N T A L    A N A L Y S I S

                    S U M M A R Y

     STEP                                  NO. OF ITERATIONS

        1           CONVERGENCE :YES                      2
        2           CONVERGENCE :YES                      2
        3           CONVERGENCE :YES                      6
        4           CONVERGENCE :YES                      2


 END OF PROCESS FOR PROBLEM
New Project
NONLINEAR SOLUTION CPU TIME ....    0.05 [sec]
DATABASE  CREATION CPU TIME.....    0.17 [sec]
```

8.5. Design Assumption : A1+M1+R1 (R3 per tiranti) - File di Paratie - File di input (.d)

```
* PARATIE ANALYSIS FOR DESIGN SECTION:Base Design Section USING ASSUMPTION: A1+M1+R1 (R3 per tiranti)
 * Time:venerdì 28 gennaio 2022 16:22:48
 * 1: Defining general settings
 UNIT  m kN
 TITLE New Project
 DELTA 0.2
 option param itemax 80
 option control contact lagrange

 option control hinges 0 0.0001 0.001

 * 2: Defining wall(s)
 WALL LeftWall_36 10 324 339 1

 * 3: Defining surfaces for wall(s)
 SOIL 0_L LeftWall_36 324 339 1 0
 SOIL 0_R LeftWall_36 324 339 2 180

 * 4: Defining soil layers
 *
 * Soil Profile (Aate_364268_2050_L_0)
 *
 LDATA Aate_364268_2050_L_0 343 LeftWall_36
 ATREST 0.5 0.5 1
 WEIGHT 19 9 10
 PERMEABILITY 1E-05
 RESISTANCE 10 31 0 0 0
 TZDATA  LINEAR 10000 0 25 0.5 0
 KSCALE  0 0
 YOUNG 40000 1.2E+05
 ENDL
 *
 * Soil Profile (Salt_1270_202756_L_0)
 *
 LDATA Salt_1270_202756_L_0 335 LeftWall_36
 ATREST 0.562 0.5 1
 WEIGHT 20 10 10
 PERMEABILITY 1E-05
 RESISTANCE 10 26 0 0 0
 TZDATA  LINEAR 10000 0 25 0.5 0
 KSCALE  0 0
 YOUNG 2E+05 6E+05
 ENDL
 *
 * Soil Profile (Pa_244788_244789_L_0)
 *
 LDATA Pa_244788_244789_L_0 331 LeftWall_36
 ATREST 0.5 0.5 1
 WEIGHT 22.5 12.5 10
 PERMEABILITY 0.0001
 RESISTANCE 50 27 0 0 0
 TZDATA  LINEAR 20000 0 30 0.5 0
 KSCALE  0 0
 YOUNG 1E+05 3E+05
 ENDL

 * 5: Defining structural materials
 * Steel material: 114 Name=Fe360 E=206000200 kPa
 MATERIAL Fe360_114 2.06E+08
 * Concrete material: 112 Name=C32/40 E=33345800 kPa
 MATERIAL C3240_112 3.3346E+07

 * 6: Defining structural elements
 * 6.1: Beams and combined Wall Elements
 ** rev 2021 and later
 BEAM Pali1500_253215 LeftWall_36 324 339 C3240_112 1.1067 0.80325 0.11296 20.081 00 00 0


 * 6.2: Supports




 * 6.3: Strips

 * 7: Defining Steps
 STEP AnteOperam_1747
 CHANGE Aate_364268_2050_L_0 U-FRICT=31 LeftWall_36
 CHANGE Aate_364268_2050_L_0 D-FRICT=31 LeftWall_36
 CHANGE Aate_364268_2050_L_0 U-KA=0.303 LeftWall_36
 CHANGE Aate_364268_2050_L_0 U-KP=3.803 LeftWall_36
 CHANGE Aate_364268_2050_L_0 D-KA=0.34 LeftWall_36
```

```
CHANGE Aate_364268_2050_L_0 D-KP=4.555 LeftWall_36
CHANGE Salt_1270_202756_L_0 U-FRICT=26 LeftWall_36
CHANGE Salt_1270_202756_L_0 D-FRICT=26 LeftWall_36
CHANGE Salt_1270_202756_L_0 U-KA=0.368 LeftWall_36
CHANGE Salt_1270_202756_L_0 U-KP=2.867 LeftWall_36
CHANGE Salt_1270_202756_L_0 D-KA=0.418 LeftWall_36
CHANGE Salt_1270_202756_L_0 D-KP=3.404 LeftWall_36
CHANGE Pa_244788_244789_L_0 U-FRICT=27 LeftWall_36
CHANGE Pa_244788_244789_L_0 D-FRICT=27 LeftWall_36
CHANGE Pa_244788_244789_L_0 U-KA=0.355 LeftWall_36
CHANGE Pa_244788_244789_L_0 U-KP=2.998 LeftWall_36
CHANGE Pa_244788_244789_L_0 D-KA=0.401 LeftWall_36
CHANGE Pa_244788_244789_L_0 D-KP=3.601 LeftWall_36
CHANGE Aate_364268_2050_L_0 U-COHE=10 LeftWall_36
CHANGE Aate_364268_2050_L_0 U-ADHES=0 LeftWall_36
CHANGE Aate_364268_2050_L_0 D-COHE=10 LeftWall_36
CHANGE Aate_364268_2050_L_0 D-ADHES=0 LeftWall_36
CHANGE Salt_1270_202756_L_0 U-COHE=10 LeftWall_36
CHANGE Salt_1270_202756_L_0 U-ADHES=0 LeftWall_36
CHANGE Salt_1270_202756_L_0 D-COHE=10 LeftWall_36
CHANGE Salt_1270_202756_L_0 D-ADHES=0 LeftWall_36
CHANGE Pa_244788_244789_L_0 U-COHE=50 LeftWall_36
CHANGE Pa_244788_244789_L_0 U-ADHES=0 LeftWall_36
CHANGE Pa_244788_244789_L_0 D-COHE=50 LeftWall_36
CHANGE Pa_244788_244789_L_0 D-ADHES=0 LeftWall_36
SETWALL LeftWall_36
GEOM 343 343
SURCHARGE 0 0 0 0
WATER 337.47 -0.066047 324 0 0
ENDSTEP

STEP Pre-scavo+Pali_244791
CHANGE Aate_364268_2050_L_0 U-KA=0.322 LeftWall_36
CHANGE Aate_364268_2050_L_0 U-KP=4.555 LeftWall_36
CHANGE Aate_364268_2050_L_0 D-KA=0.32 LeftWall_36
CHANGE Salt_1270_202756_L_0 U-KA=0.491 LeftWall_36
CHANGE Salt_1270_202756_L_0 U-KP=3.404 LeftWall_36
CHANGE Salt_1270_202756_L_0 D-KA=0.39 LeftWall_36
CHANGE Pa_244788_244789_L_0 U-KA=0.481 LeftWall_36
CHANGE Pa_244788_244789_L_0 U-KP=3.601 LeftWall_36
CHANGE Pa_244788_244789_L_0 D-KA=0.376 LeftWall_36
SETWALL LeftWall_36
GEOM 339 339
SURCHARGE 0 0 0 0
WATER 337.47 -0.039326 324 0 0
ADD Pali1500_253215
ENDSTEP

STEP Scavofinale_252903
SETWALL LeftWall_36
GEOM 339 333
SURCHARGE 0 0 0 0
WATER 337.47 4.9732 324 0 0
ENDSTEP

STEP Sisma_284297
SETWALL LeftWall_36
GEOM 339 333
SURCHARGE 0 0 0 0
WATER 337.47 4.9732 324 0 0
ENDSTEP
```

8.6. Design Assumption : A1+M1+R1 (R3 per tiranti) - File di Paratie - File di output (.out)

```
+-------------------------------------------------------------------------------------------------------------------------+
|                   PARATIEPLUS(TM)   NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*              |
|                                                                                                                         |
|                                                ParatiePlus                                                              |
|                                    Exe Time :28 January 2022   16:22:48                                                 |
+-------------------------------------------------------------------------------------------------------------------------+

                  ********************************************************
                  *                                                      *
                  *  PARATIE PLUS Non-Linear Spring Engine               *
                  *                                                      *
                  *          AN ELASTOPLASTIC FINITE ELEMENT PROGRAM     *
                  *          FOR FLEXIBLE EARTH-RETAINING STRUCTURES     *
                  *                                                      *
                  *          Written by CEAS s.r.l. (ITALY)              *
                  *          with the scientific supervision of          *
                  *          Roberto Nova - full professor SOIL MECHANICS*
                  *          at Politecnico di Milano (ITALY)            *
                  *                                                      *
                  ********************************************************
                  *                                                      *
```

```
                *  RELEASE   2022.0.0   *Build date:Sep 13, 2021*        *
                *                                                        *
                *                                                        *
                *  CEAS S.R.L  VIALE   GIUSTINIANO 10                    *
                *              20129   M I L A N O  (ITALIA)             *
                *  TEL.        +39 02 2020221                            *
                *                                                        *
                *  email       bruno.becci@ceas.it                       *
                *  Web Page    www.ceas.it     www.paratieplus.com       *
                **********************************************************



 JOB : ParatiePlus
 STARTING
ACCEPTED   &lt;FILE,GENW                                                                  &gt;
ACCEPTED   &lt;FILE,PLOTTER,BINARY                                                        &gt;
ACCEPTED   &lt;SOLVE TOTAL_STRESS                                                         &gt;
ACCEPTED   &lt;PARAM ITEMAX 80                                                            &gt;
ACCEPTED   &lt;CONTROL CONTACT LAGRANGE                                                   &gt;
ACCEPTED   &lt;CONTROL HINGES 0 0.0001 0.001                                              &gt;



                **********************************************************
                *                                                        *
                *  WARNING : PORE PRESSURES ARE AUTOMATICALLY COMPUTED   *
                *    BY THE PROGRAM.                                     *
                **********************************************************

PRELIMINARY OPERATIONS CPU TIME     0.01 [sec]
```

```
+-----------------------------------------------------------------------------------------------------------------------+
|                   PARATIEPLUS(TM)   NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*             |
|                                                                                                                       |
|                                                ParatiePlus                                                            |
|                                 Exe Time :28 January 2022   16:22:48                                                  |
+-----------------------------------------------------------------------------------------------------------------------+


INPUT FILE HAS BEEN GENERATED BY WALGEN PROGRAM


New Project


NO. OF NODAL POINTS (NUMNP) ...................   76
NO. OF COORDINATES  (NCOORD)...................    2
NO. OF NODE DOFS    (NDOF).....................    2
NO. OF EQUATIONS    (NEQ)...................... 152
NO. OF CONSTRAINTS CARDS (NVINC)...............    0
NO. OF ELEMENT GROUPS (NEG)....................    3
NO. OF SOLUTION STEPS (NSTE)...................    4
NO. OF ELEMENT SETS ATTACHED TO SLAVE NODES ...    0
NO. OF RECORD FROM WALGEN ..................... 103
NO. OF LONG NAMES (LASTNAME) ..................   17
LENGTH UNIT CHOICE ............................    3 (M   )
FORCE  UNIT CHOICE ............................    3 (KN  )
MAX PORE PRESSURE TABLE LENGTH.................    1
MAX INELASTIC DISPL. TABLE LENGTH..............    0
NO. OF ELEMENT GROUPS REQUIRING ADD. SLIP DOF .    0


IDOFA (01) =  2  Y-DISPL.F
IDOFA (02) =  4   X-ROT. F

 RELEVANT ITEMS UNITS

 STRESSES                  kPa
 Y-DISPLACEMENTS           m
 ROTATIONS                 RADIANS
 BEAM AND SLAB MOMENTS     kN*m/m
 BEAM SHEAR FORCES         kN/m
 ANCHOR FORCES             kN/m
 AXIAL FORCES IN TRUSSES   kN/m
 AXIAL FORCES SPRINGS      kN/m
 Y-REACTIONS               kN/m
 X-MOMENT REACTIONS        kN*m/m
 ETC.
```

```
+-------------------------------------------------------------------------------------------------------------------------+
|                   PARATIEPLUS(TM)   NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*              |
|                                                                                                                         |
|                                             ParatiePlus                                                                 |
|                                  Exe Time :28 January 2022   16:22:48                                                   |
+-------------------------------------------------------------------------------------------------------------------------+
                   P R E P R O C E S S O R     D A T A

                   N O.  O F   C O M M A N D S    103

    1 : UNIT  m kN
    2 : TITLE New Project
    3 : DELTA 0.2
    4 : option param itemax 80
    5 : option control contact lagrange
    6 : option control hinges 0 0.0001 0.001
    7 : WALL LeftWall_36 10 324 339 1
    8 : SOIL 0_L LeftWall_36 324 339 1 0
    9 : SOIL 0_R LeftWall_36 324 339 2 180
   10 : LDATA Aate_364268_2050_L_0 343 LeftWall_36
   11 : ATREST 0.5 0.5 1
   12 : WEIGHT 19 9 10
   13 : PERMEABILITY 1E-05
   14 : RESISTANCE 10 31 0 0 0
   15 : TZDATA  LINEAR 10000 0 25 0.5 0
   16 : KSCALE  0 0
   17 : YOUNG 40000 1.2E+05
   18 : ENDL
   19 : LDATA Salt_1270_202756_L_0 335 LeftWall_36
   20 : ATREST 0.562 0.5 1
   21 : WEIGHT 20 10 10
   22 : PERMEABILITY 1E-05
   23 : RESISTANCE 10 26 0 0 0
   24 : TZDATA  LINEAR 10000 0 25 0.5 0
   25 : KSCALE  0 0
   26 : YOUNG 2E+05 6E+05
   27 : ENDL
   28 : LDATA Pa_244788_244789_L_0 331 LeftWall_36
   29 : ATREST 0.5 0.5 1
   30 : WEIGHT 22.5 12.5 10
   31 : PERMEABILITY 0.0001
   32 : RESISTANCE 50 27 0 0 0
   33 : TZDATA  LINEAR 20000 0 30 0.5 0
   34 : KSCALE  0 0
   35 : YOUNG 1E+05 3E+05
   36 : ENDL
   37 : MATERIAL Fe360_114 2.06E+08
   38 : MATERIAL C3240_112 3.3346E+07
   39 : BEAM Pali1500_253215 LeftWall_36 324 339 C3240_112 1.1067 0.80325 0.11296 20.081 00 00 0
   40 : STEP AnteOperam_1747
   41 : CHANGE Aate_364268_2050_L_0 U-FRICT=31 LeftWall_36
   42 : CHANGE Aate_364268_2050_L_0 D-FRICT=31 LeftWall_36
   43 : CHANGE Aate_364268_2050_L_0 U-KA=0.303 LeftWall_36
   44 : CHANGE Aate_364268_2050_L_0 U-KP=3.803 LeftWall_36
   45 : CHANGE Aate_364268_2050_L_0 D-KA=0.34 LeftWall_36
   46 : CHANGE Aate_364268_2050_L_0 D-KP=4.555 LeftWall_36
   47 : CHANGE Salt_1270_202756_L_0 U-FRICT=26 LeftWall_36
   48 : CHANGE Salt_1270_202756_L_0 D-FRICT=26 LeftWall_36
   49 : CHANGE Salt_1270_202756_L_0 U-KA=0.368 LeftWall_36
   50 : CHANGE Salt_1270_202756_L_0 U-KP=2.867 LeftWall_36
   51 : CHANGE Salt_1270_202756_L_0 D-KA=0.418 LeftWall_36
   52 : CHANGE Salt_1270_202756_L_0 D-KP=3.404 LeftWall_36
   53 : CHANGE Pa_244788_244789_L_0 U-FRICT=27 LeftWall_36
   54 : CHANGE Pa_244788_244789_L_0 D-FRICT=27 LeftWall_36
   55 : CHANGE Pa_244788_244789_L_0 U-KA=0.355 LeftWall_36
   56 : CHANGE Pa_244788_244789_L_0 U-KP=2.998 LeftWall_36
   57 : CHANGE Pa_244788_244789_L_0 D-KA=0.401 LeftWall_36
   58 : CHANGE Pa_244788_244789_L_0 D-KP=3.601 LeftWall_36
   59 : CHANGE Aate_364268_2050_L_0 U-COHE=10 LeftWall_36
   60 : CHANGE Aate_364268_2050_L_0 U-ADHES=0 LeftWall_36
   61 : CHANGE Aate_364268_2050_L_0 D-COHE=10 LeftWall_36
   62 : CHANGE Aate_364268_2050_L_0 D-ADHES=0 LeftWall_36
   63 : CHANGE Salt_1270_202756_L_0 U-COHE=10 LeftWall_36
   64 : CHANGE Salt_1270_202756_L_0 U-ADHES=0 LeftWall_36
   65 : CHANGE Salt_1270_202756_L_0 D-COHE=10 LeftWall_36
   66 : CHANGE Salt_1270_202756_L_0 D-ADHES=0 LeftWall_36
   67 : CHANGE Pa_244788_244789_L_0 U-COHE=50 LeftWall_36
   68 : CHANGE Pa_244788_244789_L_0 U-ADHES=0 LeftWall_36
   69 : CHANGE Pa_244788_244789_L_0 D-COHE=50 LeftWall_36
   70 : CHANGE Pa_244788_244789_L_0 D-ADHES=0 LeftWall_36
   71 : SETWALL LeftWall_36
   72 : GEOM 343 343
   73 : SURCHARGE 0 0 0 0
   74 : WATER 337.47 -0.066047 324 0 0
   75 : ENDSTEP
   76 : STEP Pre-scavo+Pali_244791
   77 : CHANGE Aate_364268_2050_L_0 U-KA=0.322 LeftWall_36
   78 : CHANGE Aate_364268_2050_L_0 U-KP=4.555 LeftWall_36
   79 : CHANGE Aate_364268_2050_L_0 D-KA=0.32 LeftWall_36
```

```
 80 : CHANGE Salt_1270_202756_L_0 U-KA=0.491 LeftWall_36
 81 : CHANGE Salt_1270_202756_L_0 U-KP=3.404 LeftWall_36
 82 : CHANGE Salt_1270_202756_L_0 D-KA=0.39 LeftWall_36
 83 : CHANGE Pa_244788_244789_L_0 U-KA=0.481 LeftWall_36
 84 : CHANGE Pa_244788_244789_L_0 U-KP=3.601 LeftWall_36
 85 : CHANGE Pa_244788_244789_L_0 D-KA=0.376 LeftWall_36
 86 : SETWALL LeftWall_36
 87 : GEOM 339 339
 88 : SURCHARGE 0 0 0 0
 89 : WATER 337.47 -0.039326 324 0 0
 90 : ADD Pali1500_253215
 91 : ENDSTEP
 92 : STEP Scavofinale_252903
 93 : SETWALL LeftWall_36
 94 : GEOM 339 333
 95 : SURCHARGE 0 0 0 0
 96 : WATER 337.47 4.9732 324 0 0
 97 : ENDSTEP
 98 : STEP Sisma_284297
 99 : SETWALL LeftWall_36
100 : GEOM 339 333
101 : SURCHARGE 0 0 0 0
102 : WATER 337.47 4.9732 324 0 0
103 : ENDSTEP
```

N O D A L P O I N T D A T A

NODE	Y-COORD	Z-COORD	/ NODE	Y-COORD	Z-COORD	/ NODE	Y-COORD	Z-COORD	/ NODE	Y-COORD	Z-COORD	/
1	10.000	339.00	/ 2	10.000	338.80	/ 3	10.000	338.60	/ 4	10.000	338.40	/
5	10.000	338.20	/ 6	10.000	338.00	/ 7	10.000	337.80	/ 8	10.000	337.60	/
9	10.000	337.40	/ 10	10.000	337.20	/ 11	10.000	337.00	/ 12	10.000	336.80	/
13	10.000	336.60	/ 14	10.000	336.40	/ 15	10.000	336.20	/ 16	10.000	336.00	/
17	10.000	335.80	/ 18	10.000	335.60	/ 19	10.000	335.40	/ 20	10.000	335.20	/
21	10.000	335.00	/ 22	10.000	334.80	/ 23	10.000	334.60	/ 24	10.000	334.40	/
25	10.000	334.20	/ 26	10.000	334.00	/ 27	10.000	333.80	/ 28	10.000	333.60	/
29	10.000	333.40	/ 30	10.000	333.20	/ 31	10.000	333.00	/ 32	10.000	332.80	/
33	10.000	332.60	/ 34	10.000	332.40	/ 35	10.000	332.20	/ 36	10.000	332.00	/
37	10.000	331.80	/ 38	10.000	331.60	/ 39	10.000	331.40	/ 40	10.000	331.20	/
41	10.000	331.00	/ 42	10.000	330.80	/ 43	10.000	330.60	/ 44	10.000	330.40	/
45	10.000	330.20	/ 46	10.000	330.00	/ 47	10.000	329.80	/ 48	10.000	329.60	/
49	10.000	329.40	/ 50	10.000	329.20	/ 51	10.000	329.00	/ 52	10.000	328.80	/
53	10.000	328.60	/ 54	10.000	328.40	/ 55	10.000	328.20	/ 56	10.000	328.00	/
57	10.000	327.80	/ 58	10.000	327.60	/ 59	10.000	327.40	/ 60	10.000	327.20	/
61	10.000	327.00	/ 62	10.000	326.80	/ 63	10.000	326.60	/ 64	10.000	326.40	/
65	10.000	326.20	/ 66	10.000	326.00	/ 67	10.000	325.80	/ 68	10.000	325.60	/
69	10.000	325.40	/ 70	10.000	325.20	/ 71	10.000	325.00	/ 72	10.000	324.80	/
73	10.000	324.60	/ 74	10.000	324.40	/ 75	10.000	324.20	/ 76	10.000	324.00	/

```
 ELEMENT GROUP NO.  1

0_L                                                        :
   5  76   0   1   0   0   0   0   0   0   0   0   0   0   3   0   0   0   0
.....................................
..........2D PLASTIC SOIL ..........
.....................................
```

element group behaviour throughout stage analysis

stage	status
1	active
2	active
3	active
4	active

material set no. 1

prop(1) angle 0.00000
prop(2) layer as foreseen 1.00000

material set no. 2

prop(1) angle 0.00000
prop(2) layer as foreseen 2.00000

material set no. 3

prop(1) angle 0.00000
prop(2) layer as foreseen 3.00000

element data

el	n	mat	area	.....	.....	.....	flag
1	1	1	0.1000	0.000	0.000	0.000	1.000
2	2	1	0.2000	0.000	0.000	0.000	1.000
3	3	1	0.2000	0.000	0.000	0.000	1.000
4	4	1	0.2000	0.000	0.000	0.000	1.000
5	5	1	0.2000	0.000	0.000	0.000	1.000
6	6	1	0.2000	0.000	0.000	0.000	1.000
7	7	1	0.2000	0.000	0.000	0.000	1.000
8	8	1	0.2000	0.000	0.000	0.000	1.000
9	9	1	0.2000	0.000	0.000	0.000	1.000
10	10	1	0.2000	0.000	0.000	0.000	1.000
11	11	1	0.2000	0.000	0.000	0.000	1.000
12	12	1	0.2000	0.000	0.000	0.000	1.000
13	13	1	0.2000	0.000	0.000	0.000	1.000
14	14	1	0.2000	0.000	0.000	0.000	1.000
15	15	1	0.2000	0.000	0.000	0.000	1.000
16	16	1	0.2000	0.000	0.000	0.000	1.000
17	17	1	0.2000	0.000	0.000	0.000	1.000
18	18	1	0.2000	0.000	0.000	0.000	1.000
19	19	1	0.2000	0.000	0.000	0.000	1.000
20	20	1	0.2000	0.000	0.000	0.000	1.000
21	21	2	0.2000	0.000	0.000	0.000	1.000
22	22	2	0.2000	0.000	0.000	0.000	1.000
23	23	2	0.2000	0.000	0.000	0.000	1.000
24	24	2	0.2000	0.000	0.000	0.000	1.000
25	25	2	0.2000	0.000	0.000	0.000	1.000
26	26	2	0.2000	0.000	0.000	0.000	1.000
27	27	2	0.2000	0.000	0.000	0.000	1.000
28	28	2	0.2000	0.000	0.000	0.000	1.000
29	29	2	0.2000	0.000	0.000	0.000	1.000
30	30	2	0.2000	0.000	0.000	0.000	1.000
31	31	2	0.2000	0.000	0.000	0.000	1.000
32	32	2	0.2000	0.000	0.000	0.000	1.000
33	33	2	0.2000	0.000	0.000	0.000	1.000
34	34	2	0.2000	0.000	0.000	0.000	1.000
35	35	2	0.2000	0.000	0.000	0.000	1.000
36	36	2	0.2000	0.000	0.000	0.000	1.000
37	37	2	0.2000	0.000	0.000	0.000	1.000
38	38	2	0.2000	0.000	0.000	0.000	1.000
39	39	2	0.2000	0.000	0.000	0.000	1.000
40	40	2	0.2000	0.000	0.000	0.000	1.000
41	41	3	0.2000	0.000	0.000	0.000	1.000
42	42	3	0.2000	0.000	0.000	0.000	1.000
43	43	3	0.2000	0.000	0.000	0.000	1.000

44	44	3	0.2000	0.000	0.000	0.000	1.000
45	45	3	0.2000	0.000	0.000	0.000	1.000
46	46	3	0.2000	0.000	0.000	0.000	1.000
47	47	3	0.2000	0.000	0.000	0.000	1.000
48	48	3	0.2000	0.000	0.000	0.000	1.000
49	49	3	0.2000	0.000	0.000	0.000	1.000
50	50	3	0.2000	0.000	0.000	0.000	1.000
51	51	3	0.2000	0.000	0.000	0.000	1.000
52	52	3	0.2000	0.000	0.000	0.000	1.000
53	53	3	0.2000	0.000	0.000	0.000	1.000
54	54	3	0.2000	0.000	0.000	0.000	1.000
55	55	3	0.2000	0.000	0.000	0.000	1.000
56	56	3	0.2000	0.000	0.000	0.000	1.000
57	57	3	0.2000	0.000	0.000	0.000	1.000
58	58	3	0.2000	0.000	0.000	0.000	1.000
59	59	3	0.2000	0.000	0.000	0.000	1.000
60	60	3	0.2000	0.000	0.000	0.000	1.000
61	61	3	0.2000	0.000	0.000	0.000	1.000
62	62	3	0.2000	0.000	0.000	0.000	1.000
63	63	3	0.2000	0.000	0.000	0.000	1.000
64	64	3	0.2000	0.000	0.000	0.000	1.000
65	65	3	0.2000	0.000	0.000	0.000	1.000
66	66	3	0.2000	0.000	0.000	0.000	1.000
67	67	3	0.2000	0.000	0.000	0.000	1.000
68	68	3	0.2000	0.000	0.000	0.000	1.000
69	69	3	0.2000	0.000	0.000	0.000	1.000
70	70	3	0.2000	0.000	0.000	0.000	1.000
71	71	3	0.2000	0.000	0.000	0.000	1.000
72	72	3	0.2000	0.000	0.000	0.000	1.000
73	73	3	0.2000	0.000	0.000	0.000	1.000
74	74	3	0.2000	0.000	0.000	0.000	1.000
75	75	3	0.2000	0.000	0.000	0.000	1.000
76	76	3	0.1000	0.000	0.000	0.000	1.000

 ELEMENT GROUP NO. 2

0_R   :
   5 76   0   1   0   0   0   0   0   0   0   0   0   0   0   3   0   0   0   0
....
.....2D PLASTIC SOIL .....
....

element group behaviour throughout stage analysis

stage	status
1	active
2	active
3	active
4	active

 material set no.   1

 prop(1) angle   180.000
 prop(2) layer as foreseen 1.00000

 material set no.   2

 prop(1) angle   180.000
 prop(2) layer as foreseen 2.00000

 material set no.   3

 prop(1) angle   180.000
 prop(2) layer as foreseen 3.00000

 element data

el	n	mat	area	.....	.....	.....	flag
1	1	1	0.1000	0.000	0.000	0.000	2.000
2	2	1	0.2000	0.000	0.000	0.000	2.000
3	3	1	0.2000	0.000	0.000	0.000	2.000
4	4	1	0.2000	0.000	0.000	0.000	2.000
5	5	1	0.2000	0.000	0.000	0.000	2.000
6	6	1	0.2000	0.000	0.000	0.000	2.000
7	7	1	0.2000	0.000	0.000	0.000	2.000
8	8	1	0.2000	0.000	0.000	0.000	2.000
9	9	1	0.2000	0.000	0.000	0.000	2.000
10	10	1	0.2000	0.000	0.000	0.000	2.000
11	11	1	0.2000	0.000	0.000	0.000	2.000
12	12	1	0.2000	0.000	0.000	0.000	2.000
13	13	1	0.2000	0.000	0.000	0.000	2.000
14	14	1	0.2000	0.000	0.000	0.000	2.000
15	15	1	0.2000	0.000	0.000	0.000	2.000
16	16	1	0.2000	0.000	0.000	0.000	2.000
17	17	1	0.2000	0.000	0.000	0.000	2.000
18	18	1	0.2000	0.000	0.000	0.000	2.000
19	19	1	0.2000	0.000	0.000	0.000	2.000
20	20	1	0.2000	0.000	0.000	0.000	2.000
21	21	2	0.2000	0.000	0.000	0.000	2.000
22	22	2	0.2000	0.000	0.000	0.000	2.000
23	23	2	0.2000	0.000	0.000	0.000	2.000
24	24	2	0.2000	0.000	0.000	0.000	2.000
25	25	2	0.2000	0.000	0.000	0.000	2.000
26	26	2	0.2000	0.000	0.000	0.000	2.000
27	27	2	0.2000	0.000	0.000	0.000	2.000
28	28	2	0.2000	0.000	0.000	0.000	2.000
29	29	2	0.2000	0.000	0.000	0.000	2.000
30	30	2	0.2000	0.000	0.000	0.000	2.000
31	31	2	0.2000	0.000	0.000	0.000	2.000
32	32	2	0.2000	0.000	0.000	0.000	2.000
33	33	2	0.2000	0.000	0.000	0.000	2.000
34	34	2	0.2000	0.000	0.000	0.000	2.000
35	35	2	0.2000	0.000	0.000	0.000	2.000
36	36	2	0.2000	0.000	0.000	0.000	2.000
37	37	2	0.2000	0.000	0.000	0.000	2.000
38	38	2	0.2000	0.000	0.000	0.000	2.000
39	39	2	0.2000	0.000	0.000	0.000	2.000
40	40	2	0.2000	0.000	0.000	0.000	2.000
41	41	3	0.2000	0.000	0.000	0.000	2.000
42	42	3	0.2000	0.000	0.000	0.000	2.000
43	43	3	0.2000	0.000	0.000	0.000	2.000

44	44	3	0.2000	0.000	0.000	0.000	2.000
45	45	3	0.2000	0.000	0.000	0.000	2.000
46	46	3	0.2000	0.000	0.000	0.000	2.000
47	47	3	0.2000	0.000	0.000	0.000	2.000
48	48	3	0.2000	0.000	0.000	0.000	2.000
49	49	3	0.2000	0.000	0.000	0.000	2.000
50	50	3	0.2000	0.000	0.000	0.000	2.000
51	51	3	0.2000	0.000	0.000	0.000	2.000
52	52	3	0.2000	0.000	0.000	0.000	2.000
53	53	3	0.2000	0.000	0.000	0.000	2.000
54	54	3	0.2000	0.000	0.000	0.000	2.000
55	55	3	0.2000	0.000	0.000	0.000	2.000
56	56	3	0.2000	0.000	0.000	0.000	2.000
57	57	3	0.2000	0.000	0.000	0.000	2.000
58	58	3	0.2000	0.000	0.000	0.000	2.000
59	59	3	0.2000	0.000	0.000	0.000	2.000
60	60	3	0.2000	0.000	0.000	0.000	2.000
61	61	3	0.2000	0.000	0.000	0.000	2.000
62	62	3	0.2000	0.000	0.000	0.000	2.000
63	63	3	0.2000	0.000	0.000	0.000	2.000
64	64	3	0.2000	0.000	0.000	0.000	2.000
65	65	3	0.2000	0.000	0.000	0.000	2.000
66	66	3	0.2000	0.000	0.000	0.000	2.000
67	67	3	0.2000	0.000	0.000	0.000	2.000
68	68	3	0.2000	0.000	0.000	0.000	2.000
69	69	3	0.2000	0.000	0.000	0.000	2.000
70	70	3	0.2000	0.000	0.000	0.000	2.000
71	71	3	0.2000	0.000	0.000	0.000	2.000
72	72	3	0.2000	0.000	0.000	0.000	2.000
73	73	3	0.2000	0.000	0.000	0.000	2.000
74	74	3	0.2000	0.000	0.000	0.000	2.000
75	75	3	0.2000	0.000	0.000	0.000	2.000
76	76	3	0.1000	0.000	0.000	0.000	2.000

ELEMENT GROUP NO. 3

Pali1500_253215 :

2 75 0 1 0 0 0 0 0 0 0 0 0 0 0 1 0 0 1 0

.....

.....2D WALL ELEMENT.....

.....

element group behaviour throughout stage analysis

stage	status
1	inactive
2	active
3	active
4	active

material set no. 1

prop(1) young modulus 0.333500E+08
prop(2) modification time 0.00000
prop(3) new young modulus 0.00000
prop(4) poisson ratio 0.00000
prop(5) future 0.00000

no. of step variable items: 1

step	inertia multipier
1	1.000
2	1.000
3	1.000
4	1.000

element data

el	na	nb	mat	erc1	erc2	thick	area	inertia	wgt(-z)	by-i	by-j
1	1	2	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
2	2	3	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
3	3	4	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
4	4	5	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
5	5	6	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
6	6	7	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
7	7	8	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
8	8	9	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
9	9	10	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
10	10	11	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
11	11	12	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
12	12	13	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
13	13	14	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
14	14	15	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
15	15	16	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
16	16	17	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
17	17	18	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
18	18	19	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
19	19	20	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
20	20	21	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
21	21	22	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
22	22	23	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
23	23	24	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
24	24	25	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
25	25	26	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
26	26	27	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
27	27	28	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
28	28	29	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
29	29	30	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
30	30	31	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
31	31	32	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
32	32	33	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
33	33	34	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
34	34	35	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
35	35	36	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
36	36	37	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
37	37	38	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
38	38	39	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
39	39	40	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
40	40	41	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
41	41	42	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
42	42	43	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
43	43	44	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
44	44	45	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
45	45	46	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000

46	46	47	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
47	47	48	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
48	48	49	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
49	49	50	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
50	50	51	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
51	51	52	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
52	52	53	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
53	53	54	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
54	54	55	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
55	55	56	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
56	56	57	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
57	57	58	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
58	58	59	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
59	59	60	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
60	60	61	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
61	61	62	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
62	62	63	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
63	63	64	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
64	64	65	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
65	65	66	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
66	66	67	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
67	67	68	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
68	68	69	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
69	69	70	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
70	70	71	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
71	71	72	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
72	72	73	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
73	73	74	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
74	74	75	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
75	75	76	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000

```
+-------------------------------------------------------------------------------------------------------------------------+
|                   PARATIEPLUS(TM)   NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*              |
|                                                                                                                         |
|                                                ParatiePlus                                                              |
|                                  Exe Time :28 January 2022   16:22:48                                                   |
+-------------------------------------------------------------------------------------------------------------------------+


NO. OF NODAL LOADS  (NLOAD) ...................    0
NO. OF LOAD CURVES  (NLCUR) ...................    8
MAXIMUM POINTS/LCURVE (NPTM)...................    5
```

L O A D D A T A

LOAD FUNCTION NUMBER = 1
NUMBER OF TIME POINTS = 5

TIME VALUE	FUNCTION
0.00000	0.0000E+00
0.80000	0.0000E+00
1.00000	0.1000E+01
1.20000	0.0000E+00
5.00000	0.0000E+00

LOAD FUNCTION NUMBER = 2
NUMBER OF TIME POINTS = 5

TIME VALUE	FUNCTION
0.00000	0.0000E+00
1.80000	0.0000E+00
2.00000	0.1000E+01
2.20000	0.0000E+00
5.00000	0.0000E+00

LOAD FUNCTION NUMBER = 3
NUMBER OF TIME POINTS = 5

TIME VALUE	FUNCTION
0.00000	0.0000E+00
2.80000	0.0000E+00
3.00000	0.1000E+01
3.20000	0.0000E+00
5.00000	0.0000E+00

LOAD FUNCTION NUMBER = 4
NUMBER OF TIME POINTS = 5

TIME VALUE	FUNCTION
0.00000	0.0000E+00
3.80000	0.0000E+00
4.00000	0.1000E+01
4.20000	0.0000E+00
5.00000	0.0000E+00

LOAD FUNCTION NUMBER = 5
NUMBER OF TIME POINTS = 4

TIME VALUE	FUNCTION
0.00000	0.0000E+00
0.80000	0.0000E+00
1.00000	0.1000E+01
5.00000	0.1000E+01

LOAD FUNCTION NUMBER = 6
NUMBER OF TIME POINTS = 4

TIME VALUE	FUNCTION
0.00000	0.0000E+00
1.80000	0.0000E+00
2.00000	0.1000E+01
5.00000	0.1000E+01

LOAD FUNCTION NUMBER = 7
NUMBER OF TIME POINTS = 4

```
    TIME VALUE      FUNCTION

       0.00000    0.0000E+00
       2.80000    0.0000E+00
       3.00000    0.1000E+01
       5.00000    0.1000E+01


    LOAD FUNCTION NUMBER   =    8
    NUMBER OF TIME POINTS  =    4

    TIME VALUE      FUNCTION

       0.00000    0.0000E+00
       3.80000    0.0000E+00
       4.00000    0.1000E+01
       5.00000    0.1000E+01


NO. OF DISTRIBUTED LOAD CARDS     0
```

L O A D B A L A N C E

STEP 1 TOTAL APPLIED LOAD IN DIR. 2 Y-DISPL.F 0.0000000
STEP 1 TOTAL APPLIED LOAD IN DIR. 4 X-ROT. F 0.0000000

STEP 2 TOTAL APPLIED LOAD IN DIR. 2 Y-DISPL.F 0.0000000
STEP 2 TOTAL APPLIED LOAD IN DIR. 4 X-ROT. F 0.0000000

STEP 3 TOTAL APPLIED LOAD IN DIR. 2 Y-DISPL.F 0.0000000
STEP 3 TOTAL APPLIED LOAD IN DIR. 4 X-ROT. F 0.0000000

STEP 4 TOTAL APPLIED LOAD IN DIR. 2 Y-DISPL.F 0.0000000
STEP 4 TOTAL APPLIED LOAD IN DIR. 4 X-ROT. F 0.0000000

LOAD INPUT SECTION COMPLETED

```
+-------------------------------------------------------------------------------------------------------------------------+
|                  PARATIEPLUS(TM)   NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*              |
|                                                                                                                         |
|                                              ParatiePlus                                                                |
|                                Exe Time :28 January 2022   16:22:48                                                     |
+-------------------------------------------------------------------------------------------------------------------------+


NO. OF LAYERS ..............................    3
NO. OF DATA PER LAYER.......................  160
```

LAYER DESCRIPTORS FOR STEP NO. 1

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 1 FOR STEP NO. 1

ITEM NO. 1<NAME >= 12.000 (BOTH WALLS)
ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
ITEM NO. 3<LEVEL >= 343.00 (BOTH WALLS)
ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)
ITEM NO. 5<GAMMAD >= 19.000 (BOTH WALLS)
ITEM NO. 6<GAMMAB >= 9.0000 (BOTH WALLS)
ITEM NO. 7<GAMMAW >= 10.000 (BOTH WALLS)
ITEM NO. 8<U-COHE >= 10.000 (BOTH WALLS)
ITEM NO. 9<U-FRICT >= 31.000 (BOTH WALLS)
ITEM NO. 10<U-KA >= 0.30300 WALL NO. 1
ITEM NO. 11<U-KP >= 3.8030 WALL NO. 1
ITEM NO. 12<K0-NC >= 0.50000 (BOTH WALLS)
ITEM NO. 13<NEXP >= 0.50000 (BOTH WALLS)
ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)
ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)
ITEM NO. 17<EVC >= 40000. (BOTH WALLS)
ITEM NO. 18<EUR >= 0.12000E+06 (BOTH WALLS)
ITEM NO. 27<U-PERM >= 0.10000E-04 (BOTH WALLS)
ITEM NO. 58<U-TZKZ >= 10000. (BOTH WALLS)
ITEM NO. 60<U-TZDELT>= 25.000 (BOTH WALLS)
ITEM NO. 61<U-TZALPH>= 0.50000 (BOTH WALLS)
ITEM NO. 82<D-NATURE>= 1.0000 (BOTH WALLS)
ITEM NO. 83<D-LEVEL >= 343.00 (BOTH WALLS)
ITEM NO. 88<D-COHE >= 10.000 (BOTH WALLS)
ITEM NO. 89<D-FRICT >= 31.000 (BOTH WALLS)
ITEM NO. 90<D-KA >= 0.34000 WALL NO. 1
ITEM NO. 91<D-KP >= 4.5550 WALL NO. 1
ITEM NO. 107<D-PERM >= 0.10000E-04 (BOTH WALLS)
ITEM NO. 138<D-TZKZ >= 10000. (BOTH WALLS)
ITEM NO. 140<D-TZDELT>= 25.000 (BOTH WALLS)
ITEM NO. 141<D-TZALPH>= 0.50000 (BOTH WALLS)

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 2 FOR STEP NO. 1

ITEM NO. 1<NAME >= 13.000 (BOTH WALLS)
ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
ITEM NO. 3<LEVEL >= 335.00 (BOTH WALLS)
ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)
ITEM NO. 5<GAMMAD >= 20.000 (BOTH WALLS)
ITEM NO. 6<GAMMAB >= 10.000 (BOTH WALLS)
ITEM NO. 7<GAMMAW >= 10.000 (BOTH WALLS)
ITEM NO. 8<U-COHE >= 10.000 (BOTH WALLS)
ITEM NO. 9<U-FRICT >= 26.000 (BOTH WALLS)
ITEM NO. 10<U-KA >= 0.36800 WALL NO. 1
ITEM NO. 11<U-KP >= 2.8670 WALL NO. 1
ITEM NO. 12<K0-NC >= 0.56200 (BOTH WALLS)
ITEM NO. 13<NEXP >= 0.50000 (BOTH WALLS)
ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)
ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)
ITEM NO. 17<EVC >= 0.20000E+06 (BOTH WALLS)
ITEM NO. 18<EUR >= 0.60000E+06 (BOTH WALLS)
ITEM NO. 27<U-PERM >= 0.10000E-04 (BOTH WALLS)
ITEM NO. 58<U-TZKZ >= 10000. (BOTH WALLS)
ITEM NO. 60<U-TZDELT>= 25.000 (BOTH WALLS)
ITEM NO. 61<U-TZALPH>= 0.50000 (BOTH WALLS)
ITEM NO. 82<D-NATURE>= 1.0000 (BOTH WALLS)
ITEM NO. 83<D-LEVEL >= 0.0000 (BOTH WALLS)
ITEM NO. 88<D-COHE >= 10.000 (BOTH WALLS)
ITEM NO. 89<D-FRICT >= 26.000 (BOTH WALLS)
ITEM NO. 90<D-KA >= 0.41800 WALL NO. 1
ITEM NO. 91<D-KP >= 3.4040 WALL NO. 1
ITEM NO. 107<D-PERM >= 0.10000E-04 (BOTH WALLS)
ITEM NO. 138<D-TZKZ >= 10000. (BOTH WALLS)
ITEM NO. 140<D-TZDELT>= 25.000 (BOTH WALLS)
ITEM NO. 141<D-TZALPH>= 0.50000 (BOTH WALLS)

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 3 FOR STEP NO. 1

ITEM NO. 1<NAME >= 14.000 (BOTH WALLS)
ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
ITEM NO. 3<LEVEL >= 331.00 (BOTH WALLS)
ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)
ITEM NO. 5<GAMMAD >= 22.500 (BOTH WALLS)
ITEM NO. 6<GAMMAB >= 12.500 (BOTH WALLS)
ITEM NO. 7<GAMMAW >= 10.000 (BOTH WALLS)
ITEM NO. 8<U-COHE >= 50.000 (BOTH WALLS)
ITEM NO. 9<U-FRICT >= 27.000 (BOTH WALLS)

ITEM NO. 10<U-KA   >= 0.35500   WALL NO.   1
ITEM NO. 11<U-KP   >= 2.9980   WALL NO.   1
ITEM NO. 12<K0-NC   >= 0.50000   (BOTH WALLS)
ITEM NO. 13<NEXP   >= 0.50000   (BOTH WALLS)
ITEM NO. 14<OCR   >= 1.0000   (BOTH WALLS)
ITEM NO. 16<MODEL   >= 1.0000   (BOTH WALLS)
ITEM NO. 17<EVC   >= 0.10000E+06 (BOTH WALLS)
ITEM NO. 18<EUR   >= 0.30000E+06 (BOTH WALLS)
ITEM NO. 27<U-PERM >= 0.10000E-03 (BOTH WALLS)
ITEM NO. 58<U-TZKZ >= 20000.   (BOTH WALLS)
ITEM NO. 60<U-TZDELT>= 30.000   (BOTH WALLS)
ITEM NO. 61<U-TZALPH>= 0.50000   (BOTH WALLS)
ITEM NO. 82<D-NATURE>= 1.0000   (BOTH WALLS)
ITEM NO. 83<D-LEVEL >= 0.0000   (BOTH WALLS)
ITEM NO. 88<D-COHE >= 50.000   (BOTH WALLS)
ITEM NO. 89<D-FRICT >= 27.000   (BOTH WALLS)
ITEM NO. 90<D-KA   >= 0.40100   WALL NO.   1
ITEM NO. 91<D-KP   >= 3.6010   WALL NO.   1
ITEM NO. 107<D-PERM >= 0.10000E-03 (BOTH WALLS)
ITEM NO. 138<D-TZKZ >= 20000.   (BOTH WALLS)
ITEM NO. 140<D-TZDELT>= 30.000   (BOTH WALLS)
ITEM NO. 141<D-TZALPH>= 0.50000   (BOTH WALLS)

LAYER DESCRIPTORS FOR STEP NO.   2

 NON ZERO LAYER DESCRIPTORS FOR LAYER NO.   1 FOR STEP NO.   2

ITEM NO.   1<NAME   >= 12.000   (BOTH WALLS)
ITEM NO.   2<NATURE >= 1.0000   (BOTH WALLS)
ITEM NO.   3<LEVEL   >= 343.00   (BOTH WALLS)
ITEM NO.   4<WALL   >= 1.0000   (BOTH WALLS)
ITEM NO.   5<GAMMAD >= 19.000   (BOTH WALLS)
ITEM NO.   6<GAMMAB >= 9.0000   (BOTH WALLS)
ITEM NO.   7<GAMMAW >= 10.000   (BOTH WALLS)
ITEM NO.   8<U-COHE >= 10.000   (BOTH WALLS)
ITEM NO.   9<U-FRICT >= 31.000   (BOTH WALLS)
ITEM NO. 10<U-KA   >= 0.32200   WALL NO.   1
ITEM NO. 11<U-KP   >= 4.5550   WALL NO.   1
ITEM NO. 12<K0-NC   >= 0.50000   (BOTH WALLS)
ITEM NO. 13<NEXP   >= 0.50000   (BOTH WALLS)
ITEM NO. 14<OCR   >= 1.0000   (BOTH WALLS)
ITEM NO. 16<MODEL   >= 1.0000   (BOTH WALLS)
ITEM NO. 17<EVC   >= 40000.   (BOTH WALLS)
ITEM NO. 18<EUR   >= 0.12000E+06 (BOTH WALLS)
ITEM NO. 27<U-PERM >= 0.10000E-04 (BOTH WALLS)
ITEM NO. 58<U-TZKZ >= 10000.   (BOTH WALLS)
ITEM NO. 60<U-TZDELT>= 25.000   (BOTH WALLS)
ITEM NO. 61<U-TZALPH>= 0.50000   (BOTH WALLS)
ITEM NO. 82<D-NATURE>= 1.0000   (BOTH WALLS)
ITEM NO. 83<D-LEVEL >= 343.00   (BOTH WALLS)
ITEM NO. 88<D-COHE >= 10.000   (BOTH WALLS)
ITEM NO. 89<D-FRICT >= 31.000   (BOTH WALLS)
ITEM NO. 90<D-KA   >= 0.32000   WALL NO.   1
ITEM NO. 91<D-KP   >= 4.5550   WALL NO.   1
ITEM NO. 107<D-PERM >= 0.10000E-04 (BOTH WALLS)
ITEM NO. 138<D-TZKZ >= 10000.   (BOTH WALLS)
ITEM NO. 140<D-TZDELT>= 25.000   (BOTH WALLS)
ITEM NO. 141<D-TZALPH>= 0.50000   (BOTH WALLS)

 NON ZERO LAYER DESCRIPTORS FOR LAYER NO.   2 FOR STEP NO.   2

ITEM NO.   1<NAME   >= 13.000   (BOTH WALLS)
ITEM NO.   2<NATURE >= 1.0000   (BOTH WALLS)
ITEM NO.   3<LEVEL   >= 335.00   (BOTH WALLS)
ITEM NO.   4<WALL   >= 1.0000   (BOTH WALLS)
ITEM NO.   5<GAMMAD >= 20.000   (BOTH WALLS)
ITEM NO.   6<GAMMAB >= 10.000   (BOTH WALLS)
ITEM NO.   7<GAMMAW >= 10.000   (BOTH WALLS)
ITEM NO.   8<U-COHE >= 10.000   (BOTH WALLS)
ITEM NO.   9<U-FRICT >= 26.000   (BOTH WALLS)
ITEM NO. 10<U-KA   >= 0.49100   WALL NO.   1
ITEM NO. 11<U-KP   >= 3.4040   WALL NO.   1
ITEM NO. 12<K0-NC   >= 0.56200   (BOTH WALLS)
ITEM NO. 13<NEXP   >= 0.50000   (BOTH WALLS)
ITEM NO. 14<OCR   >= 1.0000   (BOTH WALLS)
ITEM NO. 16<MODEL   >= 1.0000   (BOTH WALLS)
ITEM NO. 17<EVC   >= 0.20000E+06 (BOTH WALLS)
ITEM NO. 18<EUR   >= 0.60000E+06 (BOTH WALLS)
ITEM NO. 27<U-PERM >= 0.10000E-04 (BOTH WALLS)
ITEM NO. 58<U-TZKZ >= 10000.   (BOTH WALLS)
ITEM NO. 60<U-TZDELT>= 25.000   (BOTH WALLS)
ITEM NO. 61<U-TZALPH>= 0.50000   (BOTH WALLS)
ITEM NO. 82<D-NATURE>= 1.0000   (BOTH WALLS)
ITEM NO. 83<D-LEVEL >= 0.0000   (BOTH WALLS)
ITEM NO. 88<D-COHE >= 10.000   (BOTH WALLS)
ITEM NO. 89<D-FRICT >= 26.000   (BOTH WALLS)
ITEM NO. 90<D-KA   >= 0.39000   WALL NO.   1
ITEM NO. 91<D-KP   >= 3.4040   WALL NO.   1
ITEM NO. 107<D-PERM >= 0.10000E-04 (BOTH WALLS)
ITEM NO. 138<D-TZKZ >= 10000.   (BOTH WALLS)
ITEM NO. 140<D-TZDELT>= 25.000   (BOTH WALLS)

ITEM NO. 141<D-TZALPH>= 0.50000 (BOTH WALLS)

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 3 FOR STEP NO. 2

ITEM NO. 1<NAME >= 14.000 (BOTH WALLS)
ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
ITEM NO. 3<LEVEL >= 331.00 (BOTH WALLS)
ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)
ITEM NO. 5<GAMMAD >= 22.500 (BOTH WALLS)
ITEM NO. 6<GAMMAB >= 12.500 (BOTH WALLS)
ITEM NO. 7<GAMMAW >= 10.000 (BOTH WALLS)
ITEM NO. 8<U-COHE >= 50.000 (BOTH WALLS)
ITEM NO. 9<U-FRICT >= 27.000 (BOTH WALLS)
ITEM NO. 10<U-KA >= 0.48100 WALL NO. 1
ITEM NO. 11<U-KP >= 3.6010 WALL NO. 1
ITEM NO. 12<K0-NC >= 0.50000 (BOTH WALLS)
ITEM NO. 13<NEXP >= 0.50000 (BOTH WALLS)
ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)
ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)
ITEM NO. 17<EVC >= 0.10000E+06 (BOTH WALLS)
ITEM NO. 18<EUR >= 0.30000E+06 (BOTH WALLS)
ITEM NO. 27<U-PERM >= 0.10000E-03 (BOTH WALLS)
ITEM NO. 58<U-TZKZ >= 20000. (BOTH WALLS)
ITEM NO. 60<U-TZDELT>= 30.000 (BOTH WALLS)
ITEM NO. 61<U-TZALPH>= 0.50000 (BOTH WALLS)
ITEM NO. 82<D-NATURE>= 1.0000 (BOTH WALLS)
ITEM NO. 83<D-LEVEL >= 0.0000 (BOTH WALLS)
ITEM NO. 88<D-COHE >= 50.000 (BOTH WALLS)
ITEM NO. 89<D-FRICT >= 27.000 (BOTH WALLS)
ITEM NO. 90<D-KA >= 0.37600 WALL NO. 1
ITEM NO. 91<D-KP >= 3.6010 WALL NO. 1
ITEM NO. 107<D-PERM >= 0.10000E-03 (BOTH WALLS)
ITEM NO. 138<D-TZKZ >= 20000. (BOTH WALLS)
ITEM NO. 140<D-TZDELT>= 30.000 (BOTH WALLS)
ITEM NO. 141<D-TZALPH>= 0.50000 (BOTH WALLS)

LAYER DESCRIPTORS FOR STEP NO. 3

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 1 FOR STEP NO. 3

ITEM NO. 1<NAME >= 12.000 (BOTH WALLS)
ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
ITEM NO. 3<LEVEL >= 343.00 (BOTH WALLS)
ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)
ITEM NO. 5<GAMMAD >= 19.000 (BOTH WALLS)
ITEM NO. 6<GAMMAB >= 9.0000 (BOTH WALLS)
ITEM NO. 7<GAMMAW >= 10.000 (BOTH WALLS)
ITEM NO. 8<U-COHE >= 10.000 (BOTH WALLS)
ITEM NO. 9<U-FRICT >= 31.000 (BOTH WALLS)
ITEM NO. 10<U-KA >= 0.32200 WALL NO. 1
ITEM NO. 11<U-KP >= 4.5550 WALL NO. 1
ITEM NO. 12<K0-NC >= 0.50000 (BOTH WALLS)
ITEM NO. 13<NEXP >= 0.50000 (BOTH WALLS)
ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)
ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)
ITEM NO. 17<EVC >= 40000. (BOTH WALLS)
ITEM NO. 18<EUR >= 0.12000E+06 (BOTH WALLS)
ITEM NO. 27<U-PERM >= 0.10000E-04 (BOTH WALLS)
ITEM NO. 58<U-TZKZ >= 10000. (BOTH WALLS)
ITEM NO. 60<U-TZDELT>= 25.000 (BOTH WALLS)
ITEM NO. 61<U-TZALPH>= 0.50000 (BOTH WALLS)
ITEM NO. 82<D-NATURE>= 1.0000 (BOTH WALLS)
ITEM NO. 83<D-LEVEL >= 343.00 (BOTH WALLS)
ITEM NO. 88<D-COHE >= 10.000 (BOTH WALLS)
ITEM NO. 89<D-FRICT >= 31.000 (BOTH WALLS)
ITEM NO. 90<D-KA >= 0.32000 WALL NO. 1
ITEM NO. 91<D-KP >= 4.5550 WALL NO. 1
ITEM NO. 107<D-PERM >= 0.10000E-04 (BOTH WALLS)
ITEM NO. 138<D-TZKZ >= 10000. (BOTH WALLS)
ITEM NO. 140<D-TZDELT>= 25.000 (BOTH WALLS)
ITEM NO. 141<D-TZALPH>= 0.50000 (BOTH WALLS)

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 2 FOR STEP NO. 3

ITEM NO. 1<NAME >= 13.000 (BOTH WALLS)
ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
ITEM NO. 3<LEVEL >= 335.00 (BOTH WALLS)
ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)
ITEM NO. 5<GAMMAD >= 20.000 (BOTH WALLS)
ITEM NO. 6<GAMMAB >= 10.000 (BOTH WALLS)
ITEM NO. 7<GAMMAW >= 10.000 (BOTH WALLS)
ITEM NO. 8<U-COHE >= 10.000 (BOTH WALLS)
ITEM NO. 9<U-FRICT >= 26.000 (BOTH WALLS)
ITEM NO. 10<U-KA >= 0.49100 WALL NO. 1
ITEM NO. 11<U-KP >= 3.4040 WALL NO. 1
ITEM NO. 12<K0-NC >= 0.56200 (BOTH WALLS)
ITEM NO. 13<NEXP >= 0.50000 (BOTH WALLS)
ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)
ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)
ITEM NO. 17<EVC >= 0.20000E+06 (BOTH WALLS)
ITEM NO. 18<EUR >= 0.60000E+06 (BOTH WALLS)

```
ITEM NO.  27&lt;U-PERM  &gt;= 0.10000E-04 (BOTH WALLS)
ITEM NO.  58&lt;U-TZKZ  &gt;=  10000.     (BOTH WALLS)
ITEM NO.  60&lt;U-TZDELT&gt;=  25.000     (BOTH WALLS)
ITEM NO.  61&lt;U-TZALPH&gt;= 0.50000     (BOTH WALLS)
ITEM NO.  82&lt;D-NATURE&gt;=  1.0000     (BOTH WALLS)
ITEM NO.  83&lt;D-LEVEL &gt;=  0.0000     (BOTH WALLS)
ITEM NO.  88&lt;D-COHE  &gt;=  10.000     (BOTH WALLS)
ITEM NO.  89&lt;D-FRICT &gt;=  26.000     (BOTH WALLS)
ITEM NO.  90&lt;D-KA    &gt;= 0.39000     WALL NO.        1
ITEM NO.  91&lt;D-KP    &gt;=  3.4040     WALL NO.        1
ITEM NO. 107&lt;D-PERM  &gt;= 0.10000E-04 (BOTH WALLS)
ITEM NO. 138&lt;D-TZKZ  &gt;=  10000.     (BOTH WALLS)
ITEM NO. 140&lt;D-TZDELT&gt;=  25.000     (BOTH WALLS)
ITEM NO. 141&lt;D-TZALPH&gt;= 0.50000     (BOTH WALLS)

 NON ZERO LAYER DESCRIPTORS FOR LAYER NO.    3 FOR STEP NO.    3

ITEM NO.   1&lt;NAME    &gt;=  14.000     (BOTH WALLS)
ITEM NO.   2&lt;NATURE  &gt;=  1.0000     (BOTH WALLS)
ITEM NO.   3&lt;LEVEL   &gt;=  331.00     (BOTH WALLS)
ITEM NO.   4&lt;WALL    &gt;=  1.0000     (BOTH WALLS)
ITEM NO.   5&lt;GAMMAD  &gt;=  22.500     (BOTH WALLS)
ITEM NO.   6&lt;GAMMAB  &gt;=  12.500     (BOTH WALLS)
ITEM NO.   7&lt;GAMMAW  &gt;=  10.000     (BOTH WALLS)
ITEM NO.   8&lt;U-COHE  &gt;=  50.000     (BOTH WALLS)
ITEM NO.   9&lt;U-FRICT &gt;=  27.000     (BOTH WALLS)
ITEM NO.  10&lt;U-KA    &gt;= 0.48100     WALL NO.        1
ITEM NO.  11&lt;U-KP    &gt;=  3.6010     WALL NO.        1
ITEM NO.  12&lt;K0-NC   &gt;= 0.50000     (BOTH WALLS)
ITEM NO.  13&lt;NEXP    &gt;= 0.50000     (BOTH WALLS)
ITEM NO.  14&lt;OCR     &gt;=  1.0000     (BOTH WALLS)
ITEM NO.  16&lt;MODEL   &gt;=  1.0000     (BOTH WALLS)
ITEM NO.  17&lt;EVC     &gt;= 0.10000E+06 (BOTH WALLS)
ITEM NO.  18&lt;EUR     &gt;= 0.30000E+06 (BOTH WALLS)
ITEM NO.  27&lt;U-PERM  &gt;= 0.10000E-03 (BOTH WALLS)
ITEM NO.  58&lt;U-TZKZ  &gt;=  20000.     (BOTH WALLS)
ITEM NO.  60&lt;U-TZDELT&gt;=  30.000     (BOTH WALLS)
ITEM NO.  61&lt;U-TZALPH&gt;= 0.50000     (BOTH WALLS)
ITEM NO.  82&lt;D-NATURE&gt;=  1.0000     (BOTH WALLS)
ITEM NO.  83&lt;D-LEVEL &gt;=  0.0000     (BOTH WALLS)
ITEM NO.  88&lt;D-COHE  &gt;=  50.000     (BOTH WALLS)
ITEM NO.  89&lt;D-FRICT &gt;=  27.000     (BOTH WALLS)
ITEM NO.  90&lt;D-KA    &gt;= 0.37600     WALL NO.        1
ITEM NO.  91&lt;D-KP    &gt;=  3.6010     WALL NO.        1
ITEM NO. 107&lt;D-PERM  &gt;= 0.10000E-03 (BOTH WALLS)
ITEM NO. 138&lt;D-TZKZ  &gt;=  20000.     (BOTH WALLS)
ITEM NO. 140&lt;D-TZDELT&gt;=  30.000     (BOTH WALLS)
ITEM NO. 141&lt;D-TZALPH&gt;= 0.50000     (BOTH WALLS)

LAYER DESCRIPTORS FOR STEP NO.    4


 NON ZERO LAYER DESCRIPTORS FOR LAYER NO.    1 FOR STEP NO.    4

ITEM NO.   1&lt;NAME    &gt;=  12.000     (BOTH WALLS)
ITEM NO.   2&lt;NATURE  &gt;=  1.0000     (BOTH WALLS)
ITEM NO.   3&lt;LEVEL   &gt;=  343.00     (BOTH WALLS)
ITEM NO.   4&lt;WALL    &gt;=  1.0000     (BOTH WALLS)
ITEM NO.   5&lt;GAMMAD  &gt;=  19.000     (BOTH WALLS)
ITEM NO.   6&lt;GAMMAB  &gt;=  9.0000     (BOTH WALLS)
ITEM NO.   7&lt;GAMMAW  &gt;=  10.000     (BOTH WALLS)
ITEM NO.   8&lt;U-COHE  &gt;=  10.000     (BOTH WALLS)
ITEM NO.   9&lt;U-FRICT &gt;=  31.000     (BOTH WALLS)
ITEM NO.  10&lt;U-KA    &gt;= 0.32200     WALL NO.        1
ITEM NO.  11&lt;U-KP    &gt;=  4.5550     WALL NO.        1
ITEM NO.  12&lt;K0-NC   &gt;= 0.50000     (BOTH WALLS)
ITEM NO.  13&lt;NEXP    &gt;= 0.50000     (BOTH WALLS)
ITEM NO.  14&lt;OCR     &gt;=  1.0000     (BOTH WALLS)
ITEM NO.  16&lt;MODEL   &gt;=  1.0000     (BOTH WALLS)
ITEM NO.  17&lt;EVC     &gt;=  40000.     (BOTH WALLS)
ITEM NO.  18&lt;EUR     &gt;= 0.12000E+06 (BOTH WALLS)
ITEM NO.  27&lt;U-PERM  &gt;= 0.10000E-04 (BOTH WALLS)
ITEM NO.  58&lt;U-TZKZ  &gt;=  10000.     (BOTH WALLS)
ITEM NO.  60&lt;U-TZDELT&gt;=  25.000     (BOTH WALLS)
ITEM NO.  61&lt;U-TZALPH&gt;= 0.50000     (BOTH WALLS)
ITEM NO.  82&lt;D-NATURE&gt;=  1.0000     (BOTH WALLS)
ITEM NO.  83&lt;D-LEVEL &gt;=  343.00     (BOTH WALLS)
ITEM NO.  88&lt;D-COHE  &gt;=  10.000     (BOTH WALLS)
ITEM NO.  89&lt;D-FRICT &gt;=  31.000     (BOTH WALLS)
ITEM NO.  90&lt;D-KA    &gt;= 0.32000     WALL NO.        1
ITEM NO.  91&lt;D-KP    &gt;=  4.5550     WALL NO.        1
ITEM NO. 107&lt;D-PERM  &gt;= 0.10000E-04 (BOTH WALLS)
ITEM NO. 138&lt;D-TZKZ  &gt;=  10000.     (BOTH WALLS)
ITEM NO. 140&lt;D-TZDELT&gt;=  25.000     (BOTH WALLS)
ITEM NO. 141&lt;D-TZALPH&gt;= 0.50000     (BOTH WALLS)

 NON ZERO LAYER DESCRIPTORS FOR LAYER NO.    2 FOR STEP NO.    4

ITEM NO.   1&lt;NAME    &gt;=  13.000     (BOTH WALLS)
ITEM NO.   2&lt;NATURE  &gt;=  1.0000     (BOTH WALLS)
ITEM NO.   3&lt;LEVEL   &gt;=  335.00     (BOTH WALLS)
ITEM NO.   4&lt;WALL    &gt;=  1.0000     (BOTH WALLS)
```

```
ITEM NO.   5&lt;GAMMAD  &gt;=  20.000     (BOTH WALLS)
ITEM NO.   6&lt;GAMMAB  &gt;=  10.000     (BOTH WALLS)
ITEM NO.   7&lt;GAMMAW  &gt;=  10.000     (BOTH WALLS)
ITEM NO.   8&lt;U-COHE  &gt;=  10.000     (BOTH WALLS)
ITEM NO.   9&lt;U-FRICT &gt;=  26.000     (BOTH WALLS)
ITEM NO.  10&lt;U-KA    &gt;= 0.49100     WALL NO.        1
ITEM NO.  11&lt;U-KP    &gt;=  3.4040     WALL NO.        1
ITEM NO.  12&lt;K0-NC   &gt;= 0.56200     (BOTH WALLS)
ITEM NO.  13&lt;NEXP    &gt;= 0.50000     (BOTH WALLS)
ITEM NO.  14&lt;OCR     &gt;=  1.0000     (BOTH WALLS)
ITEM NO.  16&lt;MODEL   &gt;=  1.0000     (BOTH WALLS)
ITEM NO.  17&lt;EVC     &gt;= 0.20000E+06 (BOTH WALLS)
ITEM NO.  18&lt;EUR     &gt;= 0.60000E+06 (BOTH WALLS)
ITEM NO.  27&lt;U-PERM  &gt;= 0.10000E-04 (BOTH WALLS)
ITEM NO.  58&lt;U-TZKZ  &gt;=  10000.     (BOTH WALLS)
ITEM NO.  60&lt;U-TZDELT&gt;=  25.000     (BOTH WALLS)
ITEM NO.  61&lt;U-TZALPH&gt;= 0.50000     (BOTH WALLS)
ITEM NO.  82&lt;D-NATURE&gt;=  1.0000     (BOTH WALLS)
ITEM NO.  83&lt;D-LEVEL &gt;=  0.0000     (BOTH WALLS)
ITEM NO.  88&lt;D-COHE  &gt;=  10.000     (BOTH WALLS)
ITEM NO.  89&lt;D-FRICT &gt;=  26.000     (BOTH WALLS)
ITEM NO.  90&lt;D-KA    &gt;= 0.39000     WALL NO.        1
ITEM NO.  91&lt;D-KP    &gt;=  3.4040     WALL NO.        1
ITEM NO. 107&lt;D-PERM  &gt;= 0.10000E-04 (BOTH WALLS)
ITEM NO. 138&lt;D-TZKZ  &gt;=  10000.     (BOTH WALLS)
ITEM NO. 140&lt;D-TZDELT&gt;=  25.000     (BOTH WALLS)
ITEM NO. 141&lt;D-TZALPH&gt;= 0.50000     (BOTH WALLS)

 NON ZERO LAYER DESCRIPTORS FOR LAYER NO.    3 FOR STEP NO.    4

ITEM NO.   1&lt;NAME    &gt;=  14.000     (BOTH WALLS)
ITEM NO.   2&lt;NATURE  &gt;=  1.0000     (BOTH WALLS)
ITEM NO.   3&lt;LEVEL   &gt;=  331.00     (BOTH WALLS)
ITEM NO.   4&lt;WALL    &gt;=  1.0000     (BOTH WALLS)
ITEM NO.   5&lt;GAMMAD  &gt;=  22.500     (BOTH WALLS)
ITEM NO.   6&lt;GAMMAB  &gt;=  12.500     (BOTH WALLS)
ITEM NO.   7&lt;GAMMAW  &gt;=  10.000     (BOTH WALLS)
ITEM NO.   8&lt;U-COHE  &gt;=  50.000     (BOTH WALLS)
ITEM NO.   9&lt;U-FRICT &gt;=  27.000     (BOTH WALLS)
ITEM NO.  10&lt;U-KA    &gt;= 0.48100     WALL NO.        1
ITEM NO.  11&lt;U-KP    &gt;=  3.6010     WALL NO.        1
ITEM NO.  12&lt;K0-NC   &gt;= 0.50000     (BOTH WALLS)
ITEM NO.  13&lt;NEXP    &gt;= 0.50000     (BOTH WALLS)
ITEM NO.  14&lt;OCR     &gt;=  1.0000     (BOTH WALLS)
ITEM NO.  16&lt;MODEL   &gt;=  1.0000     (BOTH WALLS)
ITEM NO.  17&lt;EVC     &gt;= 0.10000E+06 (BOTH WALLS)
ITEM NO.  18&lt;EUR     &gt;= 0.30000E+06 (BOTH WALLS)
ITEM NO.  27&lt;U-PERM  &gt;= 0.10000E-03 (BOTH WALLS)
ITEM NO.  58&lt;U-TZKZ  &gt;=  20000.     (BOTH WALLS)
ITEM NO.  60&lt;U-TZDELT&gt;=  30.000     (BOTH WALLS)
ITEM NO.  61&lt;U-TZALPH&gt;= 0.50000     (BOTH WALLS)
ITEM NO.  82&lt;D-NATURE&gt;=  1.0000     (BOTH WALLS)
ITEM NO.  83&lt;D-LEVEL &gt;=  0.0000     (BOTH WALLS)
ITEM NO.  88&lt;D-COHE  &gt;=  50.000     (BOTH WALLS)
ITEM NO.  89&lt;D-FRICT &gt;=  27.000     (BOTH WALLS)
ITEM NO.  90&lt;D-KA    &gt;= 0.37600     WALL NO.        1
ITEM NO.  91&lt;D-KP    &gt;=  3.6010     WALL NO.        1
ITEM NO. 107&lt;D-PERM  &gt;= 0.10000E-03 (BOTH WALLS)
ITEM NO. 138&lt;D-TZKZ  &gt;=  20000.     (BOTH WALLS)
ITEM NO. 140&lt;D-TZDELT&gt;=  30.000     (BOTH WALLS)
ITEM NO. 141&lt;D-TZALPH&gt;= 0.50000     (BOTH WALLS)


DEFAULT WATER UNIT WEIGHT =  10.000
AVERAGED ON    12 VALUES
```

```
+-----------------------------------------------------------------------------------------------------------------------+
|                   PARATIEPLUS(TM)   NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*             |
|                                                                                                                       |
|                                                ParatiePlus                                                            |
|                                  Exe Time :28 January 2022   16:22:48                                                 |
+-----------------------------------------------------------------------------------------------------------------------+

PHASE DESCRIPTORS


STEP  NO.     1 no. of subincrements     1
                                       LEFT WALL    RIGHT WALL
Y                                       10.00       -0.9990E+30
Z-PC                                    343.0         0.000
Z-EXCAVATION                            343.0         0.000
Z-WATER_TABLE                           337.5       -0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL               0.000         0.000
ZQ                                      0.000         0.000
DZW_OF_THE_WATER_TABLE                 -0.6605E-01    0.000
QS_ON_THE_EXCAVATION_SIDE               0.000         0.000
ZQS                                     0.000       -0.9990E+30
ZCUT                                    0.000         0.000
BALANCE LEVEL FOR PORE PRESSURES        324.0         324.0
WATER_BEHAVIOUR_FLAG (LINING OPT)       0.000         0.000
PORE_UPDATE_FLAG                        0.000         0.000
PORE_TAB. _FLAG (gt.0= use tabs)        0.000         0.000
lateral thrusts reduction elevatio      0.000         0.000
Downhill reduction factor for effe      0.000         0.000
Downhill reduction factor for pore      0.000         0.000
Uphill reduction factor for effect      0.000         0.000
Uphill reduction factor for pore p      0.000         0.000
SEISMIC HORIZONTAL ACCEL. Kh [g]        0.000         0.000
UPHILL VERTICAL ACCEL.  Kv_uh [g]       0.000         0.000
DOWNHILL VERTICAL ACCEL.Kv_dh [g]       0.000         0.000
UPHILL BETA ANGLE (SLOPE) [deg]         0.000         0.000
UPHILL DELTA/PHI RATIO                  0.000         0.000
DOWNHILL BETA ANGLE (SLOPE) [deg]       0.000         0.000
DOWNHILL DELTA/PHI RATIO                0.000         0.000
DYN.WATER BEHAVIOUR                     0.000         0.000
Excess pore pressure RATIO Ru           0.000         0.000
SEISMIC PRESSURE LOWER VALUE            0.000         0.000
SEISMIC PRESSURE UPPER VALUE            0.000         0.000
SEISMIC PRESSURE LOWER LEVEL            0.000         0.000
SEISMIC PRESSURE UPPER LEVEL            0.000         0.000

=============================================================================================================end of step    1


STEP  NO.     2 no. of subincrements     1
                                       LEFT WALL    RIGHT WALL
Y                                       10.00       -0.9990E+30
Z-PC                                    339.0         0.000
Z-EXCAVATION                            339.0         0.000
Z-WATER_TABLE                           337.5       -0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL               0.000         0.000
ZQ                                      0.000         0.000
DZW_OF_THE_WATER_TABLE                 -0.3933E-01    0.000
QS_ON_THE_EXCAVATION_SIDE               0.000         0.000
ZQS                                     0.000       -0.9990E+30
ZCUT                                    0.000         0.000
BALANCE LEVEL FOR PORE PRESSURES        324.0         324.0
WATER_BEHAVIOUR_FLAG (LINING OPT)       0.000         0.000
PORE_UPDATE_FLAG                        0.000         0.000
PORE_TAB. _FLAG (gt.0= use tabs)        0.000         0.000
lateral thrusts reduction elevatio      0.000         0.000
Downhill reduction factor for effe      0.000         0.000
Downhill reduction factor for pore      0.000         0.000
Uphill reduction factor for effect      0.000         0.000
Uphill reduction factor for pore p      0.000         0.000
SEISMIC HORIZONTAL ACCEL. Kh [g]        0.000         0.000
UPHILL VERTICAL ACCEL.  Kv_uh [g]       0.000         0.000
DOWNHILL VERTICAL ACCEL.Kv_dh [g]       0.000         0.000
UPHILL BETA ANGLE (SLOPE) [deg]         0.000         0.000
UPHILL DELTA/PHI RATIO                  0.000         0.000
DOWNHILL BETA ANGLE (SLOPE) [deg]       0.000         0.000
DOWNHILL DELTA/PHI RATIO                0.000         0.000
DYN.WATER BEHAVIOUR                     0.000         0.000
Excess pore pressure RATIO Ru           0.000         0.000
SEISMIC PRESSURE LOWER VALUE            0.000         0.000
SEISMIC PRESSURE UPPER VALUE            0.000         0.000
SEISMIC PRESSURE LOWER LEVEL            0.000         0.000
SEISMIC PRESSURE UPPER LEVEL            0.000         0.000

=============================================================================================================end of step    2


STEP  NO.     3 no. of subincrements     1
                                       LEFT WALL    RIGHT WALL
Y                                       10.00       -0.9990E+30
```

Z-PC	339.0	0.000
Z-EXCAVATION	333.0	0.000
Z-WATER_TABLE	337.5	-0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL	0.000	0.000
ZQ	0.000	0.000
DZW_OF_THE_WATER_TABLE	4.973	0.000
QS_ON_THE_EXCAVATION_SIDE	0.000	0.000
ZQS	0.000	-0.9990E+30
ZCUT	0.000	0.000
BALANCE LEVEL FOR PORE PRESSURES	324.0	324.0
WATER_BEHAVIOUR_FLAG (LINING OPT)	0.000	0.000
PORE_UPDATE_FLAG	0.000	0.000
PORE_TAB. _FLAG (gt.0= use tabs)	0.000	0.000
lateral thrusts reduction elevatio	0.000	0.000
Downhill reduction factor for effe	0.000	0.000
Downhill reduction factor for pore	0.000	0.000
Uphill reduction factor for effect	0.000	0.000
Uphill reduction factor for pore p	0.000	0.000
SEISMIC HORIZONTAL ACCEL. Kh [g]	0.000	0.000
UPHILL VERTICAL ACCEL. Kv_uh [g]	0.000	0.000
DOWNHILL VERTICAL ACCEL.Kv_dh [g]	0.000	0.000
UPHILL BETA ANGLE (SLOPE) [deg]	0.000	0.000
UPHILL DELTA/PHI RATIO	0.000	0.000
DOWNHILL BETA ANGLE (SLOPE) [deg]	0.000	0.000
DOWNHILL DELTA/PHI RATIO	0.000	0.000
DYN.WATER BEHAVIOUR	0.000	0.000
Excess pore pressure RATIO Ru	0.000	0.000
SEISMIC PRESSURE LOWER VALUE	0.000	0.000
SEISMIC PRESSURE UPPER VALUE	0.000	0.000
SEISMIC PRESSURE LOWER LEVEL	0.000	0.000
SEISMIC PRESSURE UPPER LEVEL	0.000	0.000

==========end of step   3

STEP NO.   4 no. of subincrements   1

	LEFT WALL	RIGHT WALL
Y	10.00	-0.9990E+30
Z-PC	339.0	0.000
Z-EXCAVATION	333.0	0.000
Z-WATER_TABLE	337.5	-0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL	0.000	0.000
ZQ	0.000	0.000
DZW_OF_THE_WATER_TABLE	4.973	0.000
QS_ON_THE_EXCAVATION_SIDE	0.000	0.000
ZQS	0.000	-0.9990E+30
ZCUT	0.000	0.000
BALANCE LEVEL FOR PORE PRESSURES	324.0	324.0
WATER_BEHAVIOUR_FLAG (LINING OPT)	0.000	0.000
PORE_UPDATE_FLAG	0.000	0.000
PORE_TAB. _FLAG (gt.0= use tabs)	0.000	0.000
lateral thrusts reduction elevatio	0.000	0.000
Downhill reduction factor for effe	0.000	0.000
Downhill reduction factor for pore	0.000	0.000
Uphill reduction factor for effect	0.000	0.000
Uphill reduction factor for pore p	0.000	0.000
SEISMIC HORIZONTAL ACCEL. Kh [g]	0.000	0.000
UPHILL VERTICAL ACCEL. Kv_uh [g]	0.000	0.000
DOWNHILL VERTICAL ACCEL.Kv_dh [g]	0.000	0.000
UPHILL BETA ANGLE (SLOPE) [deg]	0.000	0.000
UPHILL DELTA/PHI RATIO	0.000	0.000
DOWNHILL BETA ANGLE (SLOPE) [deg]	0.000	0.000
DOWNHILL DELTA/PHI RATIO	0.000	0.000
DYN.WATER BEHAVIOUR	0.000	0.000
Excess pore pressure RATIO Ru	0.000	0.000
SEISMIC PRESSURE LOWER VALUE	0.000	0.000
SEISMIC PRESSURE UPPER VALUE	0.000	0.000
SEISMIC PRESSURE LOWER LEVEL	0.000	0.000
SEISMIC PRESSURE UPPER LEVEL	0.000	0.000

==========end of step   4

 LEFT-HAND WALL

 LOWER LEVEL   324.00000
 UPPER LEVEL   339.00000

 RIGHT-HAND WALL

 LOWER LEVEL   324.00000
 UPPER LEVEL   339.00000

 ELEMENT GROUPS BACKUP AREA CAN STAY IN CORE AT
 POSITION   5556

 NO. OF D.P.W FOR THIS AREA   11615
 MAX NO. OF D.P.W. AVAILABLE   81920

```
 ** MAX NO OF ITERATIONS SET TO          80

ITER     0 RNORM = 0.000     RMNORM= 0.000
           RINORM=0.1526E+06 RIMNOR= 0.000
           RENORM=0.4913E-01 REMNOR= 0.000     RATIO =0.5675E-03 TOLER =0.1000E-03  NOT CONVERGED
           RFMAX = 51.81     RMMAX = 0.000
           RTSMAL=0.1000E-03 RMSMAL= 0.000
           RDT   =0.1526E+06 RDR   = 0.000
           RATIOT=0.5675E-03 RATIOR= 0.000
           MAX UN= 0.000     IEQ=   152 NODE     76 DOF   2   X-ROT. F
           MIN UN=-.6510E-01 IEQ=    17 NODE      9 DOF   1  Y-DISPL.F
           NO. OF CONTACT CONSTRAINT VIOLATIONS     0


ITER     2 RNORM = 0.000     RMNORM= 0.000
           RINORM=0.1526E+06 RIMNOR= 0.000
           RENORM=0.1130E-26 REMNOR= 0.000     RATIO =0.8605E-16 TOLER =0.1000E-03      CONVERGED !
           RFMAX = 51.81     RMMAX = 0.000
           RTSMAL=0.1000E-03 RMSMAL= 0.000
           RDT   =0.1526E+06 RDR   = 0.000
           RATIOT=0.8605E-16 RATIOR= 0.000
           MAX UN=0.1421E-13 IEQ=   105 NODE     53 DOF   1  Y-DISPL.F
           MIN UN=-.1421E-13 IEQ=    99 NODE     50 DOF   1  Y-DISPL.F
           NO. OF CONTACT CONSTRAINT VIOLATIONS     0
```

```
+-----------------------------------------------------------------------------------------------------------------------+
|                  PARATIEPLUS(TM)   NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*             |
|                                                                                                                       |
|                                                ParatiePlus                                                            |
|                                  Exe Time :28 January 2022   16:22:49                                                 |
+-----------------------------------------------------------------------------------------------------------------------+
New Project
SOLUTION REACHED USING     2 ITERATIONS ON   80

P R I N T   O U T   F O R   T I M E   S T E P   1     ( AT TIME   1.000     ) SUBINCREMENT 00001/00001

PRINT OUT OF ACTIVE COMPONENTS (FIXED NODES ARE NOT PRINTED OUT)

          Y-DISPL.F        X-ROT. F
            02               04
    9  -3.1528369E-06    0.000000
   10  -3.0640234E-06    0.000000
   11  -2.9752098E-06    0.000000
   12  -2.8863963E-06    0.000000
   13  -2.7975827E-06    0.000000
   14  -2.7087247E-06    0.000000
   15  -2.6199112E-06    0.000000
   16  -2.5310976E-06    0.000000
   17  -2.4422841E-06    0.000000
   18  -2.3534705E-06    0.000000
   19  -2.2646569E-06    0.000000
   20  -2.1758434E-06    0.000000
   21  -3.5283727E-07    0.000000
   22  -3.3781477E-07    0.000000
   23  -3.2279978E-07    0.000000
   24  -3.0778479E-07    0.000000
   25  -2.9276980E-07    0.000000
   26  -2.7775481E-07    0.000000
   27  -2.6273981E-07    0.000000
   28  -2.4772482E-07    0.000000
   29  -2.3270983E-07    0.000000
   30  -2.1768734E-07    0.000000
   31  -2.0267234E-07    0.000000
   32  -1.8765735E-07    0.000000
   33  -1.7264236E-07    0.000000
   34  -1.5762737E-07    0.000000
   35  -1.4261238E-07    0.000000
   36  -1.2759739E-07    0.000000
   37  -1.1258240E-07    0.000000
   38  -9.7559902E-08    0.000000
   39  -8.2544911E-08    0.000000
   40  -6.7529921E-08    0.000000
   41  -1.2089843E-07    0.000000
   42  -1.1744394E-07    0.000000
   43  -1.1398946E-07    0.000000
   44  -1.1053497E-07    0.000000
   45  -1.0708048E-07    0.000000
   46  -1.0362599E-07    0.000000
   47  -1.0016978E-07    0.000000
   48  -9.6715290E-08    0.000000
   49  -9.3260803E-08    0.000000
   50  -8.9806315E-08    0.000000
   51  -8.6351827E-08    0.000000
   52  -8.2897340E-08    0.000000
   53  -7.9442852E-08    0.000000
   54  -7.5988364E-08    0.000000
   55  -7.2532149E-08    0.000000
   56  -6.9077662E-08    0.000000
   57  -6.5623174E-08    0.000000
   58  -6.2168687E-08    0.000000
   59  -5.8714199E-08    0.000000
   60  -5.5259711E-08    0.000000
   61  -5.1805224E-08    0.000000
   62  -4.8350736E-08    0.000000
   63  -4.4894521E-08    0.000000
   64  -4.1440034E-08    0.000000
   65  -3.7985546E-08    0.000000
   66  -3.4531058E-08    0.000000
   67  -3.1076571E-08    0.000000
   68  -2.7622083E-08    0.000000
   69  -2.4167595E-08    0.000000
   70  -2.0713108E-08    0.000000
   71  -1.7256893E-08    0.000000
   72  -1.3802405E-08    0.000000
   73  -1.0347918E-08    0.000000
   74  -6.8934301E-09    0.000000
   75  -3.4389424E-09    0.000000
```

```
+-----------------------------------------------------------------------------------------------------------------------------+
|                  PARATIEPLUS(TM)   NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*                    |
|                                                                                                                             |
|                                            ParatiePlus                                                                      |
|                                  Exe Time :28 January 2022   16:22:49                                                       |
+-----------------------------------------------------------------------------------------------------------------------------+
New Project


S T R E S S   R E S U L T S   F O R   G R O U P   N O.   1

0_L                                                    :
ELEMENT TYPE    5 NO.OF ELEMENTS. IN THIS GROUP   76
C U R R E N T   T I M E   I S      1.0000 SUBINCREMENT 00001/00001

 HARDENING 2D SOIL ELEMENT

 ****** TOTAL STRESS FORMULATION *****

  EL *   FORCE     DISPL-Y  VERTICAL-P  HORIZON.-P     MAX-V-P     MAX-H-P          STATE   STIFFNESS Z-LEVEL      PORE       E FAC-
TOR    UFACTOR       Peq          Su_a        Su_p        Cohe_a      Cohe_p     LAYER                              ZFO         QS
QSL         ZD          ZPL          Kz
 ------------------------------------------------------------------------------------------------------------------------------
-----------------------------------------------------------------------------------------------------------------------------
-----------------------------------------------
   1 D   3.800       0.000       76.00       38.00       76.00       38.00            V-C  3.5350E+04   339.0       0.000
1.000       1.000       38.00       0.000       0.000       0.000       0.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   2 D   7.980       0.000       79.80       39.90       79.80       39.90            V-C  3.5350E+04   338.8       0.000
1.000       1.000       39.90       0.000       0.000       0.000       0.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   3 D   8.360       0.000       83.60       41.80       83.60       41.80            V-C  3.5350E+04   338.6       0.000
1.000       1.000       41.80       0.000       0.000       0.000       0.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   4 D   8.740       0.000       87.40       43.70       87.40       43.70            V-C  3.5350E+04   338.4       0.000
1.000       1.000       43.70       0.000       0.000       0.000       0.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   5 D   9.120       0.000       91.20       45.60       91.20       45.60            V-C  3.5350E+04   338.2       0.000
1.000       1.000       45.60       0.000       0.000       0.000       0.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   6 D   9.500       0.000       95.00       47.50       95.00       47.50            V-C  3.5350E+04   338.0       0.000
1.000       1.000       47.50       0.000       0.000       0.000       0.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   7 D   9.880       0.000       98.80       49.40       98.80       49.40            V-C  3.5350E+04   337.8       0.000
1.000       1.000       49.40       0.000       0.000       0.000       0.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   8 D   10.26       0.000       102.6       51.30       102.6       51.30            V-C  3.5350E+04   337.6       0.000
1.000       1.000       51.30       0.000       0.000       0.000       0.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   9 D   10.73     3.1528E-06    105.7       52.96       105.7       52.96            V-C  3.5350E+04   337.4       0.7042
1.000       1.000       53.66       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  10 D   11.31     3.0640E-06    107.5       53.85       107.5       53.85            V-C  3.5350E+04   337.2       2.713
1.000       1.000       56.57       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  11 D   11.89     2.9752E-06    109.3       54.74       109.3       54.74            V-C  3.5350E+04   337.0       4.723
1.000       1.000       59.47       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  12 D   12.47     2.8864E-06    111.1       55.64       111.1       55.64            V-C  3.5350E+04   336.8       6.732
1.000       1.000       62.37       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  13 D   13.05     2.7976E-06    112.9       56.53       112.9       56.53            V-C  3.5350E+04   336.6       8.741
1.000       1.000       65.27       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  14 D   13.63     2.7087E-06    114.7       57.42       114.7       57.42            V-C  3.5350E+04   336.4       10.75
1.000       1.000       68.17       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  15 D   14.21     2.6199E-06    116.4       58.31       116.4       58.31            V-C  3.5350E+04   336.2       12.76
1.000       1.000       71.07       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  16 D   14.80     2.5311E-06    118.2       59.21       118.2       59.21            V-C  3.5350E+04   336.0       14.77
1.000       1.000       73.98       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  17 D   15.38     2.4423E-06    120.0       60.10       120.0       60.10            V-C  3.5350E+04   335.8       16.78
1.000       1.000       76.88       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  18 D   15.96     2.3535E-06    121.8       60.99       121.8       60.99            V-C  3.5350E+04   335.6       18.79
1.000       1.000       79.78       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  19 D   16.54     2.2647E-06    123.6       61.88       123.6       61.88            V-C  3.5350E+04   335.4       20.80
1.000       1.000       82.68       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  20 D   17.12     2.1758E-06    125.4       62.78       125.4       62.78            V-C  3.5350E+04   335.2       22.81
1.000       1.000       85.58       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  21 D   19.27     3.5284E-07    127.2       71.54       127.2       71.54            V-C  1.6003E+05   335.0       24.82
1.000       1.000       96.35       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  22 D   19.90     3.3781E-07    129.2       72.65       129.2       72.65            V-C  1.6003E+05   334.8       26.83
```

```
1.000       1.000       99.48       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  23 D   20.52      3.2280E-07   131.2       73.77       131.2       73.77           V-C  1.6003E+05   334.6       28.83
1.000       1.000       102.6       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  24 D   21.15      3.0778E-07   133.2       74.89       133.2       74.89           V-C  1.6003E+05   334.4       30.84
1.000       1.000       105.7       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  25 D   21.77      2.9277E-07   135.2       76.00       135.2       76.00           V-C  1.6003E+05   334.2       32.85
1.000       1.000       108.9       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  26 D   22.40      2.7775E-07   137.1       77.12       137.1       77.12           V-C  1.6003E+05   334.0       34.86
1.000       1.000       112.0       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  27 D   23.02      2.6274E-07   139.1       78.24       139.1       78.24           V-C  1.6003E+05   333.8       36.87
1.000       1.000       115.1       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  28 D   23.65      2.4772E-07   141.1       79.35       141.1       79.35           V-C  1.6003E+05   333.6       38.88
1.000       1.000       118.2       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  29 D   24.27      2.3271E-07   143.1       80.47       143.1       80.47           V-C  1.6003E+05   333.4       40.89
1.000       1.000       121.4       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  30 D   24.90      2.1769E-07   145.1       81.59       145.1       81.59           V-C  1.6003E+05   333.2       42.90
1.000       1.000       124.5       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  31 D   25.52      2.0267E-07   147.1       82.70       147.1       82.70           V-C  1.6003E+05   333.0       44.91
1.000       1.000       127.6       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  32 D   26.15      1.8766E-07   149.1       83.82       149.1       83.82           V-C  1.6003E+05   332.8       46.92
1.000       1.000       130.7       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  33 D   26.77      1.7264E-07   151.1       84.93       151.1       84.93           V-C  1.6003E+05   332.6       48.93
1.000       1.000       133.9       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  34 D   27.40      1.5763E-07   153.1       86.05       153.1       86.05           V-C  1.6003E+05   332.4       50.94
1.000       1.000       137.0       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  35 D   28.02      1.4261E-07   155.1       87.17       155.1       87.17           V-C  1.6003E+05   332.2       52.95
1.000       1.000       140.1       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  36 D   28.65      1.2760E-07   157.1       88.28       157.1       88.28           V-C  1.6003E+05   332.0       54.95
1.000       1.000       143.2       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  37 D   29.27      1.1258E-07   159.0       89.40       159.0       89.40           V-C  1.6003E+05   331.8       56.96
1.000       1.000       146.4       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  38 D   29.90      9.7560E-08   161.0       90.52       161.0       90.52           V-C  1.6003E+05   331.6       58.97
1.000       1.000       149.5       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  39 D   30.52      8.2545E-08   163.0       91.63       163.0       91.63           V-C  1.6003E+05   331.4       60.98
1.000       1.000       152.6       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  40 D   31.15      6.7530E-08   165.0       92.75       165.0       92.75           V-C  1.6003E+05   331.2       62.99
1.000       1.000       155.7       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  41 D   29.70      1.2090E-07   167.0       83.51       167.0       83.51           V-C  8.1593E+04   331.0       65.00
1.000       1.000       148.5       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  42 D   30.35      1.1744E-07   169.5       84.76       169.5       84.76           V-C  8.1593E+04   330.8       67.00
1.000       1.000       151.8       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  43 D   31.00      1.1399E-07   172.0       86.01       172.0       86.01           V-C  8.1593E+04   330.6       69.00
1.000       1.000       155.0       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  44 D   31.65      1.1053E-07   174.5       87.26       174.5       87.26           V-C  8.1593E+04   330.4       71.00
1.000       1.000       158.3       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  45 D   32.30      1.0708E-07   177.0       88.51       177.0       88.51           V-C  8.1593E+04   330.2       73.01
1.000       1.000       161.5       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  46 D   32.95      1.0363E-07   179.5       89.76       179.5       89.76           V-C  8.1593E+04   330.0       75.01
1.000       1.000       164.8       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  47 D   33.60      1.0017E-07   182.0       91.01       182.0       91.01           V-C  8.1593E+04   329.8       77.01
1.000       1.000       168.0       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  48 D   34.25      9.6715E-08   184.5       92.26       184.5       92.26           V-C  8.1593E+04   329.6       79.01
1.000       1.000       171.3       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  49 D   34.90      9.3261E-08   187.0       93.51       187.0       93.51           V-C  8.1593E+04   329.4       81.01
1.000       1.000       174.5       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  50 D   35.55      8.9806E-08   189.5       94.76       189.5       94.76           V-C  8.1593E+04   329.2       83.01
1.000       1.000       177.8       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  51 D   36.20      8.6352E-08   192.0       96.01       192.0       96.01           V-C  8.1593E+04   329.0       85.01
1.000       1.000       181.0       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  52 D   36.85      8.2897E-08   194.5       97.26       194.5       97.26           V-C  8.1593E+04   328.8       87.01
1.000       1.000       184.3       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
```

53 D	37.50	7.9443E-08	197.0	98.51	197.0	98.51	V-C	8.1593E+04	328.6	89.01
1.000	1.000	187.5	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
54 D	38.15	7.5988E-08	199.5	99.76	199.5	99.76	V-C	8.1593E+04	328.4	91.01
1.000	1.000	190.8	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
55 D	38.80	7.2532E-08	202.0	101.0	202.0	101.0	V-C	8.1593E+04	328.2	93.02
1.000	1.000	194.0	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
56 D	39.45	6.9078E-08	204.5	102.3	204.5	102.3	V-C	8.1593E+04	328.0	95.02
1.000	1.000	197.3	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
57 D	40.10	6.5623E-08	207.0	103.5	207.0	103.5	V-C	8.1593E+04	327.8	97.02
1.000	1.000	200.5	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
58 D	40.75	6.2169E-08	209.5	104.8	209.5	104.8	V-C	8.1593E+04	327.6	99.02
1.000	1.000	203.8	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
59 D	41.40	5.8714E-08	212.0	106.0	212.0	106.0	V-C	8.1593E+04	327.4	101.0
1.000	1.000	207.0	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
60 D	42.05	5.5260E-08	214.5	107.3	214.5	107.3	V-C	8.1593E+04	327.2	103.0
1.000	1.000	210.3	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
61 D	42.70	5.1805E-08	217.0	108.5	217.0	108.5	V-C	8.1593E+04	327.0	105.0
1.000	1.000	213.5	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
62 D	43.35	4.8351E-08	219.5	109.8	219.5	109.8	V-C	8.1593E+04	326.8	107.0
1.000	1.000	216.8	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
63 D	44.01	4.4895E-08	222.0	111.0	222.0	111.0	V-C	8.1593E+04	326.6	109.0
1.000	1.000	220.0	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
64 D	44.66	4.1440E-08	224.5	112.2	224.5	112.2	V-C	8.1593E+04	326.4	111.0
1.000	1.000	223.3	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
65 D	45.31	3.7986E-08	227.0	113.5	227.0	113.5	V-C	8.1593E+04	326.2	113.0
1.000	1.000	226.5	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
66 D	45.96	3.4531E-08	229.5	114.7	229.5	114.7	V-C	8.1593E+04	326.0	115.0
1.000	1.000	229.8	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
67 D	46.61	3.1077E-08	232.0	116.0	232.0	116.0	V-C	8.1593E+04	325.8	117.0
1.000	1.000	233.0	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
68 D	47.26	2.7622E-08	234.5	117.2	234.5	117.2	V-C	8.1593E+04	325.6	119.0
1.000	1.000	236.3	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
69 D	47.91	2.4168E-08	237.0	118.5	237.0	118.5	V-C	8.1593E+04	325.4	121.0
1.000	1.000	239.5	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
70 D	48.56	2.0713E-08	239.5	119.7	239.5	119.7	V-C	8.1593E+04	325.2	123.0
1.000	1.000	242.8	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
71 D	49.21	1.7257E-08	242.0	121.0	242.0	121.0	V-C	8.1593E+04	325.0	125.0
1.000	1.000	246.0	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
72 D	49.86	1.3802E-08	244.5	122.2	244.5	122.2	V-C	8.1593E+04	324.8	127.0
1.000	1.000	249.3	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
73 D	50.51	1.0348E-08	247.0	123.5	247.0	123.5	V-C	8.1593E+04	324.6	129.0
1.000	1.000	252.5	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
74 D	51.16	6.8934E-09	249.5	124.7	249.5	124.7	V-C	8.1593E+04	324.4	131.0
1.000	1.000	255.8	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
75 D	51.81	3.4389E-09	252.0	126.0	252.0	126.0	V-C	8.1593E+04	324.2	133.0
1.000	1.000	259.0	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
76 D	26.23	9.9465E-19	254.5	127.2	254.5	127.2	V-C	8.1593E+04	324.0	135.0
1.000	1.000	262.3	0.000	0.000	0.000	0.000	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						

```
+-----------------------------------------------------------------------------------------------------------------------------+
|                  PARATIEPLUS(TM)   NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*                    |
|                                                                                                                             |
|                                              ParatiePlus                                                                    |
|                                  Exe Time :28 January 2022   16:22:49                                                       |
+-----------------------------------------------------------------------------------------------------------------------------+
New Project


S T R E S S   R E S U L T S   F O R   G R O U P   N O.   2

0_R                                                    :
ELEMENT TYPE    5 NO.OF ELEMENTS. IN THIS GROUP   76
C U R R E N T   T I M E   I S      1.0000 SUBINCREMENT 00001/00001

 HARDENING 2D SOIL ELEMENT

 ****** TOTAL STRESS FORMULATION *****

  EL *   FORCE      DISPL-Y  VERTICAL-P  HORIZON.-P     MAX-V-P     MAX-H-P          STATE   STIFFNESS Z-LEVEL      PORE       E FAC-
TOR    UFACTOR       Peq          Su_a        Su_p        Cohe_a      Cohe_p     LAYER                              ZFO         QS
QSL          ZD          ZPL          Kz
 ------------------------------------------------------------------------------------------------------------------------------
-----------------------------------------------------------------------------------------------------------------------------
-----------------------------------------------
   1 D   3.800       0.000       76.00       38.00       76.00       38.00           V-C  2.2631E+04   339.0       0.000
1.000       1.000       38.00       0.000       0.000       0.000       0.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   2 D   7.980       0.000       79.80       39.90       79.80       39.90           V-C  2.2631E+04   338.8       0.000
1.000       1.000       39.90       0.000       0.000       0.000       0.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   3 D   8.360       0.000       83.60       41.80       83.60       41.80           V-C  2.2631E+04   338.6       0.000
1.000       1.000       41.80       0.000       0.000       0.000       0.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   4 D   8.740       0.000       87.40       43.70       87.40       43.70           V-C  2.2631E+04   338.4       0.000
1.000       1.000       43.70       0.000       0.000       0.000       0.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   5 D   9.120       0.000       91.20       45.60       91.20       45.60           V-C  2.2631E+04   338.2       0.000
1.000       1.000       45.60       0.000       0.000       0.000       0.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   6 D   9.500       0.000       95.00       47.50       95.00       47.50           V-C  2.2631E+04   338.0       0.000
1.000       1.000       47.50       0.000       0.000       0.000       0.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   7 D   9.880       0.000       98.80       49.40       98.80       49.40           V-C  2.2631E+04   337.8       0.000
1.000       1.000       49.40       0.000       0.000       0.000       0.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   8 D   10.26       0.000       102.6       51.30       102.6       51.30           V-C  2.2631E+04   337.6       0.000
1.000       1.000       51.30       0.000       0.000       0.000       0.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   9 D   10.73     -3.1528E-06   105.0       52.31       105.0       52.52          UL-RL  6.7893E+04   337.4       1.355
1.000       1.000       53.66       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  10 D   11.31     -3.0640E-06   106.9       53.22       106.9       53.43          UL-RL  6.7893E+04   337.2       3.346
1.000       1.000       56.57       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  11 D   11.89     -2.9752E-06   108.7       54.13       108.7       54.33          UL-RL  6.7893E+04   337.0       5.337
1.000       1.000       59.47       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  12 D   12.47     -2.8864E-06   110.5       55.04       110.5       55.24          UL-RL  6.7893E+04   336.8       7.328
1.000       1.000       62.37       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  13 D   13.05     -2.7976E-06   112.3       55.95       112.3       56.14          UL-RL  6.7893E+04   336.6       9.319
1.000       1.000       65.27       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  14 D   13.63     -2.7087E-06   114.1       56.86       114.1       57.05          UL-RL  6.7893E+04   336.4       11.31
1.000       1.000       68.17       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  15 D   14.21     -2.6199E-06   115.9       57.77       115.9       57.95          UL-RL  6.7893E+04   336.2       13.30
1.000       1.000       71.07       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  16 D   14.80     -2.5311E-06   117.7       58.68       117.7       58.86          UL-RL  6.7893E+04   336.0       15.29
1.000       1.000       73.98       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  17 D   15.38     -2.4423E-06   119.5       59.59       119.5       59.76          UL-RL  6.7893E+04   335.8       17.28
1.000       1.000       76.88       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  18 D   15.96     -2.3535E-06   121.3       60.51       121.3       60.67          UL-RL  6.7893E+04   335.6       19.27
1.000       1.000       79.78       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  19 D   16.54     -2.2647E-06   123.1       61.42       123.1       61.57          UL-RL  6.7893E+04   335.4       21.26
1.000       1.000       82.68       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  20 D   17.12     -2.1758E-06   124.9       62.33       124.9       62.47          UL-RL  6.7893E+04   335.2       23.26
1.000       1.000       85.58       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  21 D   19.27     -3.5284E-07   126.8       71.11       126.8       71.24          UL-RL  3.7492E+05   335.0       25.25
1.000       1.000       96.35       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  22 D   19.90     -3.3781E-07   128.8       72.24       128.8       72.37          UL-RL  3.7492E+05   334.8       27.24
```

```
1.000       1.000       99.48       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  23 D   20.52     -3.2280E-07   130.8       73.38       130.8       73.50          UL-RL  3.7492E+05   334.6       29.23
1.000       1.000       102.6       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  24 D   21.15     -3.0778E-07   132.8       74.51       132.8       74.63          UL-RL  3.7492E+05   334.4       31.22
1.000       1.000       105.7       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  25 D   21.77     -2.9277E-07   134.8       75.65       134.8       75.76          UL-RL  3.7492E+05   334.2       33.21
1.000       1.000       108.9       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  26 D   22.40     -2.7775E-07   136.8       76.78       136.8       76.88          UL-RL  3.7492E+05   334.0       35.20
1.000       1.000       112.0       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  27 D   23.02     -2.6274E-07   138.8       77.91       138.8       78.01          UL-RL  3.7492E+05   333.8       37.19
1.000       1.000       115.1       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  28 D   23.65     -2.4772E-07   140.8       79.05       140.8       79.14          UL-RL  3.7492E+05   333.6       39.18
1.000       1.000       118.2       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  29 D   24.27     -2.3271E-07   142.8       80.18       142.8       80.27          UL-RL  3.7492E+05   333.4       41.17
1.000       1.000       121.4       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  30 D   24.90     -2.1769E-07   144.8       81.32       144.8       81.40          UL-RL  3.7492E+05   333.2       43.17
1.000       1.000       124.5       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  31 D   25.52     -2.0267E-07   146.9       82.45       146.9       82.53          UL-RL  3.7492E+05   333.0       45.16
1.000       1.000       127.6       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  32 D   26.15     -1.8766E-07   148.9       83.59       148.9       83.66          UL-RL  3.7492E+05   332.8       47.15
1.000       1.000       130.7       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  33 D   26.77     -1.7264E-07   150.9       84.72       150.9       84.79          UL-RL  3.7492E+05   332.6       49.14
1.000       1.000       133.9       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  34 D   27.40     -1.5763E-07   152.9       85.86       152.9       85.92          UL-RL  3.7492E+05   332.4       51.13
1.000       1.000       137.0       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  35 D   28.02     -1.4261E-07   154.9       86.99       154.9       87.05          UL-RL  3.7492E+05   332.2       53.12
1.000       1.000       140.1       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  36 D   28.65     -1.2760E-07   156.9       88.13       156.9       88.18          UL-RL  3.7492E+05   332.0       55.11
1.000       1.000       143.2       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  37 D   29.27     -1.1258E-07   158.9       89.26       158.9       89.31          UL-RL  3.7492E+05   331.8       57.10
1.000       1.000       146.4       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  38 D   29.90     -9.7560E-08   160.9       90.40       160.9       90.44          UL-RL  3.7492E+05   331.6       59.09
1.000       1.000       149.5       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  39 D   30.52     -8.2545E-08   162.9       91.53       162.9       91.56          UL-RL  3.7492E+05   331.4       61.08
1.000       1.000       152.6       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  40 D   31.15     -6.7530E-08   164.9       92.67       164.9       92.69          UL-RL  3.7492E+05   331.2       63.07
1.000       1.000       155.7       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  41 D   29.70     -1.2090E-07   166.9       83.45       166.9       83.47          UL-RL  1.8384E+05   331.0       65.07
1.000       1.000       148.5       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  42 D   30.35     -1.1744E-07   169.4       84.70       169.4       84.72          UL-RL  1.8384E+05   330.8       67.06
1.000       1.000       151.8       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  43 D   31.00     -1.1399E-07   171.9       85.95       171.9       85.97          UL-RL  1.8384E+05   330.6       69.06
1.000       1.000       155.0       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  44 D   31.65     -1.1053E-07   174.4       87.20       174.4       87.22          UL-RL  1.8384E+05   330.4       71.06
1.000       1.000       158.3       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  45 D   32.30     -1.0708E-07   176.9       88.45       176.9       88.47          UL-RL  1.8384E+05   330.2       73.06
1.000       1.000       161.5       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  46 D   32.95     -1.0363E-07   179.5       89.71       179.5       89.73          UL-RL  1.8384E+05   330.0       75.06
1.000       1.000       164.8       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  47 D   33.60     -1.0017E-07   182.0       90.96       182.0       90.98          UL-RL  1.8384E+05   329.8       77.06
1.000       1.000       168.0       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  48 D   34.25     -9.6715E-08   184.5       92.21       184.5       92.23          UL-RL  1.8384E+05   329.6       79.06
1.000       1.000       171.3       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  49 D   34.90     -9.3261E-08   187.0       93.46       187.0       93.48          UL-RL  1.8384E+05   329.4       81.06
1.000       1.000       174.5       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  50 D   35.55     -8.9806E-08   189.5       94.71       189.5       94.73          UL-RL  1.8384E+05   329.2       83.06
1.000       1.000       177.8       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  51 D   36.20     -8.6352E-08   192.0       95.96       192.0       95.98          UL-RL  1.8384E+05   329.0       85.06
1.000       1.000       181.0       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  52 D   36.85     -8.2897E-08   194.5       97.21       194.5       97.23          UL-RL  1.8384E+05   328.8       87.06
1.000       1.000       184.3       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
```

53 D	37.50	-7.9443E-08	197.0	98.46	197.0	98.48	UL-RL	1.8384E+05	328.6	89.06
1.000	1.000	187.5	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
54 D	38.15	-7.5988E-08	199.5	99.72	199.5	99.73	UL-RL	1.8384E+05	328.4	91.05
1.000	1.000	190.8	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
55 D	38.80	-7.2532E-08	202.0	101.0	202.0	101.0	UL-RL	1.8384E+05	328.2	93.05
1.000	1.000	194.0	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
56 D	39.45	-6.9078E-08	204.5	102.2	204.5	102.2	UL-RL	1.8384E+05	328.0	95.05
1.000	1.000	197.3	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
57 D	40.10	-6.5623E-08	207.0	103.5	207.0	103.5	UL-RL	1.8384E+05	327.8	97.05
1.000	1.000	200.5	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
58 D	40.75	-6.2169E-08	209.5	104.7	209.5	104.7	UL-RL	1.8384E+05	327.6	99.05
1.000	1.000	203.8	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
59 D	41.40	-5.8714E-08	212.0	106.0	212.0	106.0	UL-RL	1.8384E+05	327.4	101.1
1.000	1.000	207.0	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
60 D	42.05	-5.5260E-08	214.5	107.2	214.5	107.2	UL-RL	1.8384E+05	327.2	103.1
1.000	1.000	210.3	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
61 D	42.70	-5.1805E-08	217.0	108.5	217.0	108.5	UL-RL	1.8384E+05	327.0	105.0
1.000	1.000	213.5	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
62 D	43.35	-4.8351E-08	219.5	109.7	219.5	109.7	UL-RL	1.8384E+05	326.8	107.0
1.000	1.000	216.8	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
63 D	44.01	-4.4895E-08	222.0	111.0	222.0	111.0	UL-RL	1.8384E+05	326.6	109.0
1.000	1.000	220.0	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
64 D	44.66	-4.1440E-08	224.5	112.2	224.5	112.2	UL-RL	1.8384E+05	326.4	111.0
1.000	1.000	223.3	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
65 D	45.31	-3.7986E-08	227.0	113.5	227.0	113.5	UL-RL	1.8384E+05	326.2	113.0
1.000	1.000	226.5	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
66 D	45.96	-3.4531E-08	229.5	114.7	229.5	114.7	UL-RL	1.8384E+05	326.0	115.0
1.000	1.000	229.8	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
67 D	46.61	-3.1077E-08	232.0	116.0	232.0	116.0	UL-RL	1.8384E+05	325.8	117.0
1.000	1.000	233.0	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
68 D	47.26	-2.7622E-08	234.5	117.2	234.5	117.2	UL-RL	1.8384E+05	325.6	119.0
1.000	1.000	236.3	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
69 D	47.91	-2.4168E-08	237.0	118.5	237.0	118.5	UL-RL	1.8384E+05	325.4	121.0
1.000	1.000	239.5	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
70 D	48.56	-2.0713E-08	239.5	119.7	239.5	119.7	UL-RL	1.8384E+05	325.2	123.0
1.000	1.000	242.8	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
71 D	49.21	-1.7257E-08	242.0	121.0	242.0	121.0	UL-RL	1.8384E+05	325.0	125.0
1.000	1.000	246.0	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
72 D	49.86	-1.3802E-08	244.5	122.2	244.5	122.2	UL-RL	1.8384E+05	324.8	127.0
1.000	1.000	249.3	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
73 D	50.51	-1.0348E-08	247.0	123.5	247.0	123.5	UL-RL	1.8384E+05	324.6	129.0
1.000	1.000	252.5	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
74 D	51.16	-6.8934E-09	249.5	124.7	249.5	124.7	UL-RL	1.8384E+05	324.4	131.0
1.000	1.000	255.8	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
75 D	51.81	-3.4389E-09	252.0	126.0	252.0	126.0	UL-RL	1.8384E+05	324.2	133.0
1.000	1.000	259.0	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
76 D	26.23	-9.9465E-19	254.5	127.2	254.5	127.2	V-C	6.1280E+04	324.0	135.0
1.000	1.000	262.3	0.000	0.000	0.000	0.000	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						

```
+-----------------------------------------------------------------------------------------------------------------------+
|                   PARATIEPLUS(TM)   NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*             |
|                                                                                                                       |
|                                                ParatiePlus                                                            |
|                                  Exe Time :28 January 2022   16:22:49                                                 |
+-----------------------------------------------------------------------------------------------------------------------+
New Project


S T R E S S   R E S U L T S   F O R   G R O U P   N O.   3

Pali1500_253215                                              :
ELEMENT TYPE    2 NO.OF ELEMENTS. IN THIS GROUP   75
C U R R E N T   T I M E   I S      1.0000 SUBINCREMENT 00001/00001

 WALL2D ELEMENT

   EL      TA          TB          MA          MB
-------------------------------------------------

***** NO ONE ELEMENT ACTIVE AT CURRENT STEP *****

ITER     0 RNORM = 0.000     RMNORM= 0.000
           RINORM=0.1166E+06 RIMNOR= 0.000
           RENORM=0.1892E-01 REMNOR= 0.000     RATIO =0.4029E-03 TOLER =0.1000E-03  NOT CONVERGED
           RFMAX = 47.65     RMMAX = 0.000
           RTSMAL=0.1000E-03 RMSMAL= 0.000
           RDT   =0.1166E+06 RDR   = 0.000
           RATIOT=0.4029E-03 RATIOR= 0.000
           MAX UN=0.4135E-01 IEQ=    17 NODE      9 DOF   1  Y-DISPL.F
           MIN UN= 0.000     IEQ=     1 NODE      1 DOF   1  Y-DISPL.F
           NO. OF CONTACT CONSTRAINT VIOLATIONS     0


ITER     2 RNORM = 0.000     RMNORM= 0.000
           RINORM=0.1166E+06 RIMNOR= 0.000
           RENORM=0.3436E-22 REMNOR=0.1559E-24 RATIO =0.1717E-13 TOLER =0.1000E-03      CONVERGED !
           RFMAX = 47.65     RMMAX = 0.000
           RTSMAL=0.1000E-03 RMSMAL= 0.000
           RDT   =0.1166E+06 RDR   = 0.000
           RATIOT=0.1717E-13 RATIOR= 0.000
           MAX UN=0.2430E-11 IEQ=    31 NODE     16 DOF   1  Y-DISPL.F
           MIN UN=-.2402E-11 IEQ=    29 NODE     15 DOF   1  Y-DISPL.F
           NO. OF CONTACT CONSTRAINT VIOLATIONS     0
```

```
+-----------------------------------------------------------------------------------------------------------------------+
|                  PARATIEPLUS(TM)   NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*             |
|                                                                                                                       |
|                                                ParatiePlus                                                            |
|                                  Exe Time :28 January 2022   16:22:49                                                 |
+-----------------------------------------------------------------------------------------------------------------------+
New Project
SOLUTION REACHED USING     2 ITERATIONS ON   80

P R I N T   O U T   F O R   T I M E   S T E P   2     ( AT TIME   2.000     ) SUBINCREMENT 00001/00001

PRINT OUT OF ACTIVE COMPONENTS (FIXED NODES ARE NOT PRINTED OUT)

          Y-DISPL.F        X-ROT. F
            02               04
    1   4.5879150E-07  -1.6006488E-08
    2   4.5558910E-07  -1.6023025E-08
    3   4.5237448E-07  -1.6156784E-08
    4   4.4910739E-07  -1.6575461E-08
    5   4.4571420E-07  -1.7445559E-08
    6   4.4208616E-07  -1.8933268E-08
    7   4.3808710E-07  -2.1201075E-08
    8   4.3354285E-07  -2.4412114E-08
    9  -2.7245883E-06  -2.8727373E-08
   10  -2.6420411E-06  -3.4086484E-08
   11  -2.5606471E-06  -4.0215649E-08
   12  -2.4805342E-06  -4.6854664E-08
   13  -2.4017793E-06  -5.3755789E-08
   14  -2.3243728E-06  -6.0686131E-08
   15  -2.2483743E-06  -6.7412841E-08
   16  -2.1736830E-06  -7.3722978E-08
   17  -2.1001947E-06  -7.9408758E-08
   18  -2.0277645E-06  -8.4270273E-08
   19  -1.9562079E-06  -8.8114815E-08
   20  -1.8853031E-06  -9.0756289E-08
   21  -8.0598573E-08  -9.2014738E-08
   22  -8.3999248E-08  -9.1918535E-08
   23  -8.7262325E-08  -9.0691451E-08
   24  -9.0183950E-08  -8.8535917E-08
   25  -9.2596877E-08  -8.5632886E-08
   26  -9.4367982E-08  -8.2142737E-08
   27  -9.5394232E-08  -7.8206209E-08
   28  -9.5598876E-08  -7.3945560E-08
   29  -9.4927875E-08  -6.9465909E-08
   30  -9.3345599E-08  -6.4854374E-08
   31  -9.0835467E-08  -6.0190889E-08
   32  -8.7392546E-08  -5.5535990E-08
   33  -8.3023917E-08  -5.0941634E-08
   34  -7.7746104E-08  -4.6450565E-08
   35  -7.1583392E-08  -4.2097938E-08
   36  -6.4566472E-08  -3.7912920E-08
   37  -5.6731400E-08  -3.3920237E-08
   38  -4.8114366E-08  -3.0139841E-08
   39  -3.8768866E-08  -2.6595780E-08
   40  -2.8739664E-08  -2.3306217E-08
   41  -8.6463253E-08  -2.0292368E-08
   42  -8.6789478E-08  -1.7561181E-08
   43  -8.6596972E-08  -1.5103319E-08
   44  -8.5939292E-08  -1.2907383E-08
   45  -8.4867544E-08  -1.0960353E-08
   46  -8.3430102E-08  -9.2479891E-09
   47  -8.1671449E-08  -7.7544873E-09
   48  -7.9635712E-08  -6.4656729E-09
   49  -7.7361272E-08  -5.3647914E-09
   50  -7.4884115E-08  -4.4358342E-09
   51  -7.2237035E-08  -3.6629394E-09
   52  -6.9449683E-08  -3.0305603E-09
   53  -6.6548645E-08  -2.5236061E-09
   54  -6.3557544E-08  -2.1275572E-09
   55  -6.0495618E-08  -1.8284302E-09
   56  -5.7384021E-08  -1.6134036E-09
   57  -5.4236778E-08  -1.4699752E-09
   58  -5.1067043E-08  -1.3866448E-09
   59  -4.7885757E-08  -1.3527685E-09
   60  -4.4701820E-08  -1.3585744E-09
   61  -4.1522264E-08  -1.3951688E-09
   62  -3.8352431E-08  -1.4545360E-09
   63  -3.5194571E-08  -1.5295729E-09
   64  -3.2054326E-08  -1.6139221E-09
   65  -2.8931426E-08  -1.7021844E-09
   66  -2.5826179E-08  -1.7897596E-09
   67  -2.2738056E-08  -1.8728653E-09
   68  -1.9665853E-08  -1.9485219E-09
   69  -1.6607847E-08  -2.0145373E-09
   70  -1.3561955E-08  -2.0694943E-09
   71  -1.0524373E-08  -2.1127577E-09
   72  -7.4957887E-09  -2.1443837E-09
   73  -4.4724331E-09  -2.1652431E-09
   74  -1.4522988E-09  -2.1769231E-09
```

```
75   1.5662299E-09  -2.1817481E-09
76   4.5706495E-09  -2.1827789E-09
```

```
+-----------------------------------------------------------------------------------------------------------------------------+
|                  PARATIEPLUS(TM)   NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*                   |
|                                                                                                                             |
|                                              ParatiePlus                                                                    |
|                                  Exe Time :28 January 2022   16:22:49                                                       |
+-----------------------------------------------------------------------------------------------------------------------------+
New Project


S T R E S S   R E S U L T S   F O R   G R O U P   N O.   1

0_L                                                    :
ELEMENT TYPE    5 NO.OF ELEMENTS. IN THIS GROUP   76
C U R R E N T   T I M E   I S      2.0000 SUBINCREMENT 00001/00001

 HARDENING 2D SOIL ELEMENT

 ****** TOTAL STRESS FORMULATION *****

  EL *   FORCE      DISPL-Y  VERTICAL-P  HORIZON.-P     MAX-V-P     MAX-H-P          STATE   STIFFNESS Z-LEVEL      PORE       E FAC-
TOR    UFACTOR       Peq          Su_a        Su_p        Cohe_a      Cohe_p     LAYER                                ZFO         QS
QSL          ZD          ZPL          Kz
 ------------------------------------------------------------------------------------------------------------------------------
-----------------------------------------------------------------------------------------------------------------------------
-----------------------------------------------
   1 D   0.000     -4.5879E-07   0.000       0.000       76.00       38.00          ACTIVE   0.000       339.0       0.000
1.000       1.000       0.000       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   2 D   1.732     -4.5559E-07   3.800       8.659       79.80       39.90          UL-RL  1.0605E+05   338.8       0.000
1.000       1.000       8.659       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   3 D   2.511     -4.5237E-07   7.600       12.56       83.60       41.80          UL-RL  1.0605E+05   338.6       0.000
1.000       1.000       12.56       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   4 D   3.147     -4.4911E-07   11.40       15.73       87.40       43.70          UL-RL  1.0605E+05   338.4       0.000
1.000       1.000       15.73       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   5 D   3.714     -4.4571E-07   15.20       18.57       91.20       45.60          UL-RL  1.0605E+05   338.2       0.000
1.000       1.000       18.57       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   6 D   4.239     -4.4209E-07   19.00       21.20       95.00       47.50          UL-RL  1.0605E+05   338.0       0.000
1.000       1.000       21.20       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   7 D   4.737     -4.3809E-07   22.80       23.69       98.80       49.40          UL-RL  1.0605E+05   337.8       0.000
1.000       1.000       23.69       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   8 D   5.215     -4.3354E-07   26.60       26.08       102.6       51.30          UL-RL  1.0605E+05   337.6       0.000
1.000       1.000       26.08       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   9 D   5.757      2.7246E-06   29.70       28.08       105.7       52.96          UL-RL  1.0605E+05   337.4       0.7029
1.000       1.000       28.78       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  10 D   6.373      2.6420E-06   31.49       29.15       107.5       53.85          UL-RL  1.0605E+05   337.2       2.708
1.000       1.000       31.86       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  11 D   6.986      2.5606E-06   33.29       30.22       109.3       54.74          UL-RL  1.0605E+05   337.0       4.714
1.000       1.000       34.93       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  12 D   7.598      2.4805E-06   35.08       31.27       111.1       55.64          UL-RL  1.0605E+05   336.8       6.719
1.000       1.000       37.99       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  13 D   8.208      2.4018E-06   36.88       32.31       112.9       56.53          UL-RL  1.0605E+05   336.6       8.725
1.000       1.000       41.04       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  14 D   8.816      2.3244E-06   38.67       33.35       114.7       57.42          UL-RL  1.0605E+05   336.4       10.73
1.000       1.000       44.08       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  15 D   9.422      2.2484E-06   40.47       34.38       116.4       58.31          UL-RL  1.0605E+05   336.2       12.74
1.000       1.000       47.11       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  16 D   10.03      2.1737E-06   42.26       35.40       118.2       59.21          UL-RL  1.0605E+05   336.0       14.74
1.000       1.000       50.14       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  17 D   10.63      2.1002E-06   44.06       36.41       120.0       60.10          UL-RL  1.0605E+05   335.8       16.75
1.000       1.000       53.16       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  18 D   11.23      2.0278E-06   45.85       37.42       121.8       60.99          UL-RL  1.0605E+05   335.6       18.75
1.000       1.000       56.17       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  19 D   11.84      1.9562E-06   47.65       38.42       123.6       61.88          UL-RL  1.0605E+05   335.4       20.76
1.000       1.000       59.18       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  20 D   12.44      1.8853E-06   49.44       39.41       125.4       62.78          UL-RL  1.0605E+05   335.2       22.76
1.000       1.000       62.18       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  21 D   14.01      8.0599E-08   51.23       45.29       127.2       71.54          UL-RL  4.8010E+05   335.0       24.77
1.000       1.000       70.06       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  22 D   14.66      8.3999E-08   53.23       46.54       129.2       72.65          UL-RL  4.8010E+05   334.8       26.78
```

1.000	1.000	73.31	0.000	0.000	10.00	10.00	Salt_1270_202756_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
23 D	15.31	8.7262E-08	55.22	47.77	131.2	73.77	UL-RL	4.8010E+05	334.6	28.78
1.000	1.000	76.55	0.000	0.000	10.00	10.00	Salt_1270_202756_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
24 D	15.96	9.0184E-08	57.22	49.00	133.2	74.89	UL-RL	4.8010E+05	334.4	30.79
1.000	1.000	79.79	0.000	0.000	10.00	10.00	Salt_1270_202756_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
25 D	16.60	9.2597E-08	59.21	50.23	135.2	76.00	UL-RL	4.8010E+05	334.2	32.79
1.000	1.000	83.02	0.000	0.000	10.00	10.00	Salt_1270_202756_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
26 D	17.25	9.4368E-08	61.21	51.45	137.1	77.12	UL-RL	4.8010E+05	334.0	34.80
1.000	1.000	86.25	0.000	0.000	10.00	10.00	Salt_1270_202756_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
27 D	17.89	9.5394E-08	63.20	52.66	139.1	78.24	UL-RL	4.8010E+05	333.8	36.80
1.000	1.000	89.47	0.000	0.000	10.00	10.00	Salt_1270_202756_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
28 D	18.54	9.5599E-08	65.20	53.87	141.1	79.35	UL-RL	4.8010E+05	333.6	38.81
1.000	1.000	92.68	0.000	0.000	10.00	10.00	Salt_1270_202756_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
29 D	19.18	9.4928E-08	67.19	55.08	143.1	80.47	UL-RL	4.8010E+05	333.4	40.81
1.000	1.000	95.90	0.000	0.000	10.00	10.00	Salt_1270_202756_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
30 D	19.82	9.3346E-08	69.19	56.29	145.1	81.59	UL-RL	4.8010E+05	333.2	42.82
1.000	1.000	99.11	0.000	0.000	10.00	10.00	Salt_1270_202756_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
31 D	20.46	9.0835E-08	71.18	57.49	147.1	82.70	UL-RL	4.8010E+05	333.0	44.83
1.000	1.000	102.3	0.000	0.000	10.00	10.00	Salt_1270_202756_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
32 D	21.10	8.7393E-08	73.18	58.68	149.1	83.82	UL-RL	4.8010E+05	332.8	46.83
1.000	1.000	105.5	0.000	0.000	10.00	10.00	Salt_1270_202756_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
33 D	21.74	8.3024E-08	75.17	59.88	151.1	84.93	UL-RL	4.8010E+05	332.6	48.84
1.000	1.000	108.7	0.000	0.000	10.00	10.00	Salt_1270_202756_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
34 D	22.38	7.7746E-08	77.17	61.07	153.1	86.05	UL-RL	4.8010E+05	332.4	50.84
1.000	1.000	111.9	0.000	0.000	10.00	10.00	Salt_1270_202756_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
35 D	23.02	7.1583E-08	79.16	62.25	155.1	87.17	UL-RL	4.8010E+05	332.2	52.85
1.000	1.000	115.1	0.000	0.000	10.00	10.00	Salt_1270_202756_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
36 D	23.66	6.4566E-08	81.15	63.44	157.1	88.28	UL-RL	4.8010E+05	332.0	54.85
1.000	1.000	118.3	0.000	0.000	10.00	10.00	Salt_1270_202756_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
37 D	24.30	5.6731E-08	83.15	64.62	159.0	89.40	UL-RL	4.8010E+05	331.8	56.86
1.000	1.000	121.5	0.000	0.000	10.00	10.00	Salt_1270_202756_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
38 D	24.93	4.8114E-08	85.14	65.80	161.0	90.52	UL-RL	4.8010E+05	331.6	58.87
1.000	1.000	124.7	0.000	0.000	10.00	10.00	Salt_1270_202756_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
39 D	25.57	3.8769E-08	87.14	66.98	163.0	91.63	UL-RL	4.8010E+05	331.4	60.87
1.000	1.000	127.8	0.000	0.000	10.00	10.00	Salt_1270_202756_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
40 D	26.21	2.8740E-08	89.13	68.15	165.0	92.75	UL-RL	4.8010E+05	331.2	62.88
1.000	1.000	131.0	0.000	0.000	10.00	10.00	Salt_1270_202756_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
41 D	25.31	8.6463E-08	91.13	61.69	167.0	83.51	UL-RL	2.4478E+05	331.0	64.88
1.000	1.000	126.6	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
42 D	25.97	8.6789E-08	93.63	62.99	169.5	84.76	UL-RL	2.4478E+05	330.8	66.88
1.000	1.000	129.9	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
43 D	26.64	8.6597E-08	96.13	64.30	172.0	86.01	UL-RL	2.4478E+05	330.6	68.88
1.000	1.000	133.2	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
44 D	27.30	8.5939E-08	98.63	65.60	174.5	87.26	UL-RL	2.4478E+05	330.4	70.88
1.000	1.000	136.5	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
45 D	27.96	8.4868E-08	101.1	66.90	177.0	88.51	UL-RL	2.4478E+05	330.2	72.88
1.000	1.000	139.8	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
46 D	28.62	8.3430E-08	103.6	68.20	179.5	89.76	UL-RL	2.4478E+05	330.0	74.88
1.000	1.000	143.1	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
47 D	29.28	8.1671E-08	106.1	69.49	182.0	91.01	UL-RL	2.4478E+05	329.8	76.89
1.000	1.000	146.4	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
48 D	29.94	7.9636E-08	108.6	70.79	184.5	92.26	UL-RL	2.4478E+05	329.6	78.89
1.000	1.000	149.7	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
49 D	30.59	7.7361E-08	111.1	72.08	187.0	93.51	UL-RL	2.4478E+05	329.4	80.89
1.000	1.000	153.0	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
50 D	31.25	7.4884E-08	113.6	73.37	189.5	94.76	UL-RL	2.4478E+05	329.2	82.89
1.000	1.000	156.3	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
51 D	31.91	7.2237E-08	116.1	74.66	192.0	96.01	UL-RL	2.4478E+05	329.0	84.89
1.000	1.000	159.6	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
52 D	32.57	6.9450E-08	118.6	75.95	194.5	97.26	UL-RL	2.4478E+05	328.8	86.89
1.000	1.000	162.8	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						

53 D	33.23	6.6549E-08	121.1	77.24	197.0	98.51	UL-RL	2.4478E+05	328.6	88.89
1.000	1.000	166.1	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
54 D	33.88	6.3558E-08	123.6	78.53	199.5	99.76	UL-RL	2.4478E+05	328.4	90.89
1.000	1.000	169.4	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
55 D	34.54	6.0496E-08	126.1	79.81	202.0	101.0	UL-RL	2.4478E+05	328.2	92.89
1.000	1.000	172.7	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
56 D	35.20	5.7384E-08	128.6	81.09	204.5	102.3	UL-RL	2.4478E+05	328.0	94.89
1.000	1.000	176.0	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
57 D	35.85	5.4237E-08	131.1	82.38	207.0	103.5	UL-RL	2.4478E+05	327.8	96.89
1.000	1.000	179.3	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
58 D	36.51	5.1067E-08	133.6	83.66	209.5	104.8	UL-RL	2.4478E+05	327.6	98.89
1.000	1.000	182.6	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
59 D	37.17	4.7886E-08	136.1	84.94	212.0	106.0	UL-RL	2.4478E+05	327.4	100.9
1.000	1.000	185.8	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
60 D	37.82	4.4702E-08	138.6	86.22	214.5	107.3	UL-RL	2.4478E+05	327.2	102.9
1.000	1.000	189.1	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
61 D	38.48	4.1522E-08	141.1	87.50	217.0	108.5	UL-RL	2.4478E+05	327.0	104.9
1.000	1.000	192.4	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
62 D	39.13	3.8352E-08	143.6	88.78	219.5	109.8	UL-RL	2.4478E+05	326.8	106.9
1.000	1.000	195.7	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
63 D	39.79	3.5195E-08	146.1	90.05	222.0	111.0	UL-RL	2.4478E+05	326.6	108.9
1.000	1.000	199.0	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
64 D	40.45	3.2054E-08	148.6	91.33	224.5	112.2	UL-RL	2.4478E+05	326.4	110.9
1.000	1.000	202.2	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
65 D	41.10	2.8931E-08	151.1	92.61	227.0	113.5	UL-RL	2.4478E+05	326.2	112.9
1.000	1.000	205.5	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
66 D	41.76	2.5826E-08	153.6	93.88	229.5	114.7	UL-RL	2.4478E+05	326.0	114.9
1.000	1.000	208.8	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
67 D	42.41	2.2738E-08	156.1	95.16	232.0	116.0	UL-RL	2.4478E+05	325.8	116.9
1.000	1.000	212.1	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
68 D	43.07	1.9666E-08	158.6	96.43	234.5	117.2	UL-RL	2.4478E+05	325.6	118.9
1.000	1.000	215.3	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
69 D	43.72	1.6608E-08	161.1	97.70	237.0	118.5	UL-RL	2.4478E+05	325.4	120.9
1.000	1.000	218.6	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
70 D	44.38	1.3562E-08	163.6	98.97	239.5	119.7	UL-RL	2.4478E+05	325.2	122.9
1.000	1.000	221.9	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
71 D	45.03	1.0524E-08	166.1	100.2	242.0	121.0	UL-RL	2.4478E+05	325.0	124.9
1.000	1.000	225.1	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
72 D	45.68	7.4958E-09	168.6	101.5	244.5	122.2	UL-RL	2.4478E+05	324.8	126.9
1.000	1.000	228.4	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
73 D	46.34	4.4724E-09	171.1	102.8	247.0	123.5	UL-RL	2.4478E+05	324.6	128.9
1.000	1.000	231.7	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
74 D	46.99	1.4523E-09	173.6	104.1	249.5	124.7	UL-RL	2.4478E+05	324.4	130.9
1.000	1.000	235.0	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
75 D	47.65	-1.5662E-09	176.1	105.3	252.0	126.0	UL-RL	2.4478E+05	324.2	132.9
1.000	1.000	238.2	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
76 D	24.15	-4.5706E-09	178.6	106.6	254.5	127.2	UL-RL	2.4478E+05	324.0	134.9
1.000	1.000	241.5	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						

```
+-----------------------------------------------------------------------------------------------------------------------------+
|                   PARATIEPLUS(TM)   NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*                  |
|                                                                                                                             |
|                                                ParatiePlus                                                                  |
|                                    Exe Time :28 January 2022   16:22:49                                                     |
+-----------------------------------------------------------------------------------------------------------------------------+
New Project


S T R E S S   R E S U L T S   F O R   G R O U P   N O.   2

0_R                                                    :
ELEMENT TYPE    5 NO.OF ELEMENTS. IN THIS GROUP   76
C U R R E N T   T I M E   I S      2.0000 SUBINCREMENT 00001/00001

 HARDENING 2D SOIL ELEMENT

 ****** TOTAL STRESS FORMULATION *****

  EL *   FORCE      DISPL-Y  VERTICAL-P  HORIZON.-P     MAX-V-P     MAX-H-P          STATE   STIFFNESS Z-LEVEL      PORE       E FAC-
TOR    UFACTOR       Peq          Su_a        Su_p        Cohe_a      Cohe_p     LAYER                              ZFO         QS
QSL          ZD          ZPL          Kz
 ------------------------------------------------------------------------------------------------------------------------------
-----------------------------------------------------------------------------------------------------------------------------
-----------------------------------------------
   1 D  3.1149E-03  4.5879E-07   0.000      3.1149E-02   76.00       38.00          UL-RL  6.7893E+04   339.0       0.000
1.000       1.000      3.1149E-02   0.000       0.000       10.00       10.00     Aate_364268_2050_L_0               0.0000
0.0000      0.0000       0.0000      0.0000      0.0000
   2 D   1.748      4.5559E-07   3.800       8.738       79.80       39.90          UL-RL  6.7893E+04   338.8       0.000
1.000       1.000       8.738       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0               0.0000
0.0000      0.0000       0.0000      0.0000      0.0000
   3 D   2.527      4.5237E-07   7.600       12.63       83.60       41.80          UL-RL  6.7893E+04   338.6       0.000
1.000       1.000       12.63       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0               0.0000
0.0000      0.0000       0.0000      0.0000      0.0000
   4 D   3.163      4.4911E-07   11.40       15.81       87.40       43.70          UL-RL  6.7893E+04   338.4       0.000
1.000       1.000       15.81       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0               0.0000
0.0000      0.0000       0.0000      0.0000      0.0000
   5 D   3.729      4.4571E-07   15.20       18.65       91.20       45.60          UL-RL  6.7893E+04   338.2       0.000
1.000       1.000       18.65       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0               0.0000
0.0000      0.0000       0.0000      0.0000      0.0000
   6 D   4.255      4.4209E-07   19.00       21.27       95.00       47.50          UL-RL  6.7893E+04   338.0       0.000
1.000       1.000       21.27       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0               0.0000
0.0000      0.0000       0.0000      0.0000      0.0000
   7 D   4.752      4.3809E-07   22.80       23.76       98.80       49.40          UL-RL  6.7893E+04   337.8       0.000
1.000       1.000       23.76       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0               0.0000
0.0000      0.0000       0.0000      0.0000      0.0000
   8 D   5.230      4.3354E-07   26.60       26.15       102.6       51.30          UL-RL  6.7893E+04   337.6       0.000
1.000       1.000       26.15       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0               0.0000
0.0000      0.0000       0.0000      0.0000      0.0000
   9 D   5.730     -2.7246E-06   29.31       27.56       105.0       52.52          UL-RL  6.7893E+04   337.4       1.091
1.000       1.000       28.65       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0               0.0000
0.0000      0.0000       0.0000      0.0000      0.0000
  10 D   6.348     -2.6420E-06   31.12       28.65       106.9       53.43          UL-RL  6.7893E+04   337.2       3.086
1.000       1.000       31.74       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0               0.0000
0.0000      0.0000       0.0000      0.0000      0.0000
  11 D   6.962     -2.5606E-06   32.92       29.73       108.7       54.33          UL-RL  6.7893E+04   337.0       5.080
1.000       1.000       34.81       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0               0.0000
0.0000      0.0000       0.0000      0.0000      0.0000
  12 D   7.575     -2.4805E-06   34.73       30.80       110.5       55.24          UL-RL  6.7893E+04   336.8       7.075
1.000       1.000       37.88       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0               0.0000
0.0000      0.0000       0.0000      0.0000      0.0000
  13 D   8.186     -2.4018E-06   36.53       31.86       112.3       56.14          UL-RL  6.7893E+04   336.6       9.069
1.000       1.000       40.93       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0               0.0000
0.0000      0.0000       0.0000      0.0000      0.0000
  14 D   8.795     -2.3244E-06   38.34       32.91       114.1       57.05          UL-RL  6.7893E+04   336.4       11.06
1.000       1.000       43.98       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0               0.0000
0.0000      0.0000       0.0000      0.0000      0.0000
  15 D   9.403     -2.2484E-06   40.14       33.95       115.9       57.95          UL-RL  6.7893E+04   336.2       13.06
1.000       1.000       47.01       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0               0.0000
0.0000      0.0000       0.0000      0.0000      0.0000
  16 D   10.01     -2.1737E-06   41.95       34.99       117.7       58.86          UL-RL  6.7893E+04   336.0       15.05
1.000       1.000       50.04       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0               0.0000
0.0000      0.0000       0.0000      0.0000      0.0000
  17 D   10.61     -2.1002E-06   43.76       36.02       119.5       59.76          UL-RL  6.7893E+04   335.8       17.05
1.000       1.000       53.06       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0               0.0000
0.0000      0.0000       0.0000      0.0000      0.0000
  18 D   11.22     -2.0278E-06   45.56       37.04       121.3       60.67          UL-RL  6.7893E+04   335.6       19.04
1.000       1.000       56.08       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0               0.0000
0.0000      0.0000       0.0000      0.0000      0.0000
  19 D   11.82     -1.9562E-06   47.37       38.05       123.1       61.57          UL-RL  6.7893E+04   335.4       21.04
1.000       1.000       59.09       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0               0.0000
0.0000      0.0000       0.0000      0.0000      0.0000
  20 D   12.42     -1.8853E-06   49.17       39.06       124.9       62.47          UL-RL  6.7893E+04   335.2       23.03
1.000       1.000       62.10       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0               0.0000
0.0000      0.0000       0.0000      0.0000      0.0000
  21 D   14.03     -8.0599E-08   50.98       45.15       126.8       71.24          UL-RL  3.7492E+05   335.0       25.03
1.000       1.000       70.17       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0               0.0000
0.0000      0.0000       0.0000      0.0000      0.0000
  22 D   14.68     -8.3999E-08   52.98       46.39       128.8       72.37          UL-RL  3.7492E+05   334.8       27.02
```

```
1.000       1.000       73.41       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  23 D   15.33     -8.7262E-08   54.99       47.63       130.8       73.50          UL-RL  3.7492E+05   334.6       29.02
1.000       1.000       76.64       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  24 D   15.97     -9.0184E-08   56.99       48.86       132.8       74.63          UL-RL  3.7492E+05   334.4       31.01
1.000       1.000       79.87       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  25 D   16.62     -9.2597E-08   59.00       50.08       134.8       75.76          UL-RL  3.7492E+05   334.2       33.01
1.000       1.000       83.09       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  26 D   17.26     -9.4368E-08   61.01       51.31       136.8       76.88          UL-RL  3.7492E+05   334.0       35.00
1.000       1.000       86.31       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  27 D   17.90     -9.5394E-08   63.01       52.52       138.8       78.01          UL-RL  3.7492E+05   333.8       36.99
1.000       1.000       89.52       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  28 D   18.55     -9.5599E-08   65.02       53.74       140.8       79.14          UL-RL  3.7492E+05   333.6       38.99
1.000       1.000       92.73       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  29 D   19.19     -9.4928E-08   67.02       54.95       142.8       80.27          UL-RL  3.7492E+05   333.4       40.98
1.000       1.000       95.94       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  30 D   19.83     -9.3346E-08   69.03       56.16       144.8       81.40          UL-RL  3.7492E+05   333.2       42.98
1.000       1.000       99.14       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  31 D   20.47     -9.0835E-08   71.03       57.37       146.9       82.53          UL-RL  3.7492E+05   333.0       44.97
1.000       1.000       102.3       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  32 D   21.11     -8.7393E-08   73.04       58.57       148.9       83.66          UL-RL  3.7492E+05   332.8       46.97
1.000       1.000       105.5       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  33 D   21.75     -8.3024E-08   75.05       59.77       150.9       84.79          UL-RL  3.7492E+05   332.6       48.96
1.000       1.000       108.7       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  34 D   22.38     -7.7746E-08   77.05       60.97       152.9       85.92          UL-RL  3.7492E+05   332.4       50.96
1.000       1.000       111.9       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  35 D   23.02     -7.1583E-08   79.06       62.16       154.9       87.05          UL-RL  3.7492E+05   332.2       52.95
1.000       1.000       115.1       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  36 D   23.66     -6.4566E-08   81.06       63.36       156.9       88.18          UL-RL  3.7492E+05   332.0       54.95
1.000       1.000       118.3       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  37 D   24.30     -5.6731E-08   83.07       64.55       158.9       89.31          UL-RL  3.7492E+05   331.8       56.94
1.000       1.000       121.5       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  38 D   24.93     -4.8114E-08   85.07       65.74       160.9       90.44          UL-RL  3.7492E+05   331.6       58.94
1.000       1.000       124.7       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  39 D   25.57     -3.8769E-08   87.08       66.93       162.9       91.56          UL-RL  3.7492E+05   331.4       60.93
1.000       1.000       127.9       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  40 D   26.21     -2.8740E-08   89.08       68.11       164.9       92.69          UL-RL  3.7492E+05   331.2       62.93
1.000       1.000       131.0       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  41 D   25.31     -8.6463E-08   91.09       61.64       166.9       83.47          UL-RL  1.8384E+05   331.0       64.92
1.000       1.000       126.6       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  42 D   25.97     -8.6789E-08   93.59       62.95       169.4       84.72          UL-RL  1.8384E+05   330.8       66.92
1.000       1.000       129.9       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  43 D   26.63     -8.6597E-08   96.09       64.25       171.9       85.97          UL-RL  1.8384E+05   330.6       68.92
1.000       1.000       133.2       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  44 D   27.30     -8.5939E-08   98.59       65.56       174.4       87.22          UL-RL  1.8384E+05   330.4       70.92
1.000       1.000       136.5       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  45 D   27.96     -8.4868E-08   101.1       66.86       176.9       88.47          UL-RL  1.8384E+05   330.2       72.92
1.000       1.000       139.8       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  46 D   28.61     -8.3430E-08   103.6       68.16       179.5       89.73          UL-RL  1.8384E+05   330.0       74.92
1.000       1.000       143.1       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  47 D   29.27     -8.1671E-08   106.1       69.45       182.0       90.98          UL-RL  1.8384E+05   329.8       76.92
1.000       1.000       146.4       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  48 D   29.93     -7.9636E-08   108.6       70.75       184.5       92.23          UL-RL  1.8384E+05   329.6       78.92
1.000       1.000       149.7       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  49 D   30.59     -7.7361E-08   111.1       72.04       187.0       93.48          UL-RL  1.8384E+05   329.4       80.92
1.000       1.000       153.0       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  50 D   31.25     -7.4884E-08   113.6       73.34       189.5       94.73          UL-RL  1.8384E+05   329.2       82.92
1.000       1.000       156.3       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  51 D   31.91     -7.2237E-08   116.1       74.63       192.0       95.98          UL-RL  1.8384E+05   329.0       84.92
1.000       1.000       159.5       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  52 D   32.57     -6.9450E-08   118.6       75.92       194.5       97.23          UL-RL  1.8384E+05   328.8       86.92
1.000       1.000       162.8       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
```

53 D	33.22	-6.6549E-08	121.1	77.21	197.0	98.48	UL-RL	1.8384E+05	328.6	88.91
1.000	1.000	166.1	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
54 D	33.88	-6.3558E-08	123.6	78.49	199.5	99.73	UL-RL	1.8384E+05	328.4	90.91
1.000	1.000	169.4	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
55 D	34.54	-6.0496E-08	126.1	79.78	202.0	101.0	UL-RL	1.8384E+05	328.2	92.91
1.000	1.000	172.7	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
56 D	35.20	-5.7384E-08	128.6	81.07	204.5	102.2	UL-RL	1.8384E+05	328.0	94.91
1.000	1.000	176.0	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
57 D	35.85	-5.4237E-08	131.1	82.35	207.0	103.5	UL-RL	1.8384E+05	327.8	96.91
1.000	1.000	179.3	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
58 D	36.51	-5.1067E-08	133.6	83.63	209.5	104.7	UL-RL	1.8384E+05	327.6	98.91
1.000	1.000	182.5	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
59 D	37.17	-4.7886E-08	136.1	84.92	212.0	106.0	UL-RL	1.8384E+05	327.4	100.9
1.000	1.000	185.8	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
60 D	37.82	-4.4702E-08	138.6	86.20	214.5	107.2	UL-RL	1.8384E+05	327.2	102.9
1.000	1.000	189.1	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
61 D	38.48	-4.1522E-08	141.1	87.48	217.0	108.5	UL-RL	1.8384E+05	327.0	104.9
1.000	1.000	192.4	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
62 D	39.13	-3.8352E-08	143.6	88.76	219.5	109.7	UL-RL	1.8384E+05	326.8	106.9
1.000	1.000	195.7	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
63 D	39.79	-3.5195E-08	146.1	90.04	222.0	111.0	UL-RL	1.8384E+05	326.6	108.9
1.000	1.000	198.9	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
64 D	40.45	-3.2054E-08	148.6	91.31	224.5	112.2	UL-RL	1.8384E+05	326.4	110.9
1.000	1.000	202.2	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
65 D	41.10	-2.8931E-08	151.1	92.59	227.0	113.5	UL-RL	1.8384E+05	326.2	112.9
1.000	1.000	205.5	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
66 D	41.76	-2.5826E-08	153.6	93.87	229.5	114.7	UL-RL	1.8384E+05	326.0	114.9
1.000	1.000	208.8	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
67 D	42.41	-2.2738E-08	156.1	95.14	232.0	116.0	UL-RL	1.8384E+05	325.8	116.9
1.000	1.000	212.1	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
68 D	43.07	-1.9666E-08	158.6	96.42	234.5	117.2	UL-RL	1.8384E+05	325.6	118.9
1.000	1.000	215.3	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
69 D	43.72	-1.6608E-08	161.1	97.69	237.0	118.5	UL-RL	1.8384E+05	325.4	120.9
1.000	1.000	218.6	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
70 D	44.38	-1.3562E-08	163.6	98.97	239.5	119.7	UL-RL	1.8384E+05	325.2	122.9
1.000	1.000	221.9	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
71 D	45.03	-1.0524E-08	166.1	100.2	242.0	121.0	UL-RL	1.8384E+05	325.0	124.9
1.000	1.000	225.2	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
72 D	45.68	-7.4958E-09	168.6	101.5	244.5	122.2	UL-RL	1.8384E+05	324.8	126.9
1.000	1.000	228.4	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
73 D	46.34	-4.4724E-09	171.1	102.8	247.0	123.5	UL-RL	1.8384E+05	324.6	128.9
1.000	1.000	231.7	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
74 D	46.99	-1.4523E-09	173.6	104.1	249.5	124.7	UL-RL	1.8384E+05	324.4	130.9
1.000	1.000	235.0	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
75 D	47.65	1.5662E-09	176.1	105.3	252.0	126.0	UL-RL	1.8384E+05	324.2	132.9
1.000	1.000	238.2	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
76 D	24.15	4.5706E-09	178.6	106.6	254.5	127.2	UL-RL	1.8384E+05	324.0	134.9
1.000	1.000	241.5	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						

New Project

S T R E S S   R E S U L T S   F O R   G R O U P   N O.   3

Pali1500_253215   :
ELEMENT TYPE   2 NO.OF ELEMENTS. IN THIS GROUP   75
C U R R E N T   T I M E   I S   2.0000 SUBINCREMENT 00001/00001

 WALL2D ELEMENT

EL	TA	TB	MA	MB
1	-3.11486E-03	3.11486E-03	1.64313E-14	-6.22972E-04
2	-1.89641E-02	1.89641E-02	6.22972E-04	-4.41579E-03
3	-3.47015E-02	3.47015E-02	4.41579E-03	-1.13561E-02
4	-5.03253E-02	5.03253E-02	1.13561E-02	-2.14212E-02
5	-6.58310E-02	6.58310E-02	2.14212E-02	-3.45939E-02
6	-8.12105E-02	8.12105E-02	3.45939E-02	-5.08360E-02
7	-9.64509E-02	9.64509E-02	5.08360E-02	-7.01262E-02
8	-0.11153	0.11153	7.01262E-02	-9.24329E-02
9	-8.50802E-02	8.50802E-02	9.24329E-02	-0.10945
10	-5.99623E-02	5.99623E-02	0.10945	-0.12144
11	-3.60699E-02	3.60699E-02	0.12144	-0.12866
12	-1.32997E-02	1.32997E-02	0.12866	-0.13132
13	8.44483E-03	-8.44483E-03	0.13132	-0.12963
14	2.92534E-02	-2.92534E-02	0.12963	-0.12377
15	4.92098E-02	-4.92098E-02	0.12377	-0.11393
16	6.83903E-02	-6.83903E-02	0.11393	-0.10025
17	8.68630E-02	-8.68630E-02	0.10025	-8.28822E-02
18	0.10469	-0.10469	8.28822E-02	-6.19446E-02
19	0.12191	-0.12191	6.19446E-02	-3.75617E-02
20	0.13858	-0.13858	3.75617E-02	-9.84503E-03
21	0.11650	-0.11650	9.84503E-03	1.34673E-02
22	9.64532E-02	-9.64532E-02	-1.34673E-02	3.27579E-02
23	7.84239E-02	-7.84239E-02	-3.27579E-02	4.84427E-02
24	6.23700E-02	-6.23700E-02	-4.84427E-02	6.09167E-02
25	4.82159E-02	-4.82159E-02	-6.09167E-02	7.05599E-02
26	3.58614E-02	-3.58614E-02	-7.05599E-02	7.77321E-02
27	2.51878E-02	-2.51878E-02	-7.77321E-02	8.27697E-02
28	1.60620E-02	-1.60620E-02	-8.27697E-02	8.59821E-02
29	8.34066E-03	-8.34066E-03	-8.59821E-02	8.76511E-02
30	1.87432E-03	-1.87432E-03	-8.76511E-02	8.80259E-02
31	-3.49154E-03	3.49154E-03	-8.80259E-02	8.73276E-02
32	-7.91218E-03	7.91218E-03	-8.73276E-02	8.57452E-02
33	-1.15422E-02	1.15422E-02	-8.57452E-02	8.34368E-02
34	-1.45339E-02	1.45339E-02	-8.34368E-02	8.05300E-02
35	-1.70357E-02	1.70357E-02	-8.05300E-02	7.71228E-02
36	-1.91915E-02	1.91915E-02	-7.71228E-02	7.32845E-02
37	-2.11389E-02	2.11389E-02	-7.32845E-02	6.90546E-02
38	-2.30092E-02	2.30092E-02	-6.90546E-02	6.44528E-02
39	-2.49263E-02	2.49263E-02	-6.44528E-02	5.94675E-02
40	-2.70057E-02	2.70057E-02	-5.94675E-02	5.40664E-02
41	-2.62347E-02	2.62347E-02	-5.40664E-02	4.88195E-02
42	-2.52472E-02	2.52472E-02	-4.88195E-02	4.37700E-02
43	-2.40874E-02	2.40874E-02	-4.37700E-02	3.89525E-02
44	-2.27950E-02	2.27950E-02	-3.89525E-02	3.43935E-02
45	-2.14051E-02	2.14051E-02	-3.43935E-02	3.01125E-02
46	-1.99490E-02	1.99490E-02	-3.01125E-02	2.61207E-02
47	-1.84540E-02	1.84540E-02	-2.61207E-02	2.24299E-02
48	-1.69438E-02	1.69438E-02	-2.24299E-02	1.90411E-02
49	-1.54388E-02	1.54388E-02	-1.90411E-02	1.59534E-02
50	-1.39562E-02	1.39562E-02	-1.59534E-02	1.31621E-02
51	-1.25105E-02	1.25105E-02	-1.31621E-02	1.06600E-02
52	-1.11138E-02	1.11138E-02	-1.06600E-02	8.43730E-03
53	-9.77565E-03	9.77565E-03	-8.43730E-03	6.48217E-03
54	-8.50386E-03	8.50386E-03	-6.48217E-03	4.78054E-03
55	-7.30435E-03	7.30435E-03	-4.78054E-03	3.31967E-03
56	-6.18145E-03	6.18145E-03	-3.31967E-03	2.08338E-03
57	-5.13824E-03	5.13824E-03	-2.08338E-03	1.05574E-03
58	-4.17663E-03	4.17663E-03	-1.05574E-03	2.20409E-04
59	-3.29764E-03	3.29764E-03	-2.20409E-04	-4.39119E-04
60	-2.50150E-03	2.50150E-03	4.39119E-04	-9.39419E-04
61	-1.78786E-03	1.78786E-03	9.39419E-04	-1.29699E-03
62	-1.15592E-03	1.15592E-03	1.29699E-03	-1.52829E-03
63	-6.04582E-04	6.04582E-04	1.52829E-03	-1.64921E-03
64	-1.32463E-04	1.32463E-04	1.64921E-03	-1.67570E-03
65	2.61889E-04	-2.61889E-04	1.67570E-03	-1.62332E-03
66	5.79947E-04	-5.79947E-04	1.62332E-03	-1.50733E-03
67	8.23142E-04	-8.23142E-04	1.50733E-03	-1.34270E-03
68	9.92795E-04	-9.92795E-04	1.34270E-03	-1.14415E-03
69	1.09008E-03	-1.09008E-03	1.14415E-03	-9.26129E-04
70	1.11600E-03	-1.11600E-03	9.26129E-04	-7.02818E-04

```
   71 1.07130E-03-1.07130E-03 7.02818E-04-4.88558E-04
   72 9.56625E-04-9.56625E-04 4.88558E-04-2.97233E-04
   73 7.72372E-04-7.72372E-04 2.97233E-04-1.42759E-04
   74 5.18769E-04-5.18769E-04 1.42759E-04-3.90049E-05
   75 1.95906E-04-1.95906E-04 3.90049E-05 5.55112E-17

ITER     0 RNORM = 0.000     RMNORM= 0.000
           RINORM=0.6389E+05 RIMNOR=0.5181
           RENORM= 7856.     REMNOR=0.1559E-24 RATIO =0.3507     TOLER =0.1000E-03  NOT CONVERGED
           RFMAX = 42.19     RMMAX =0.1313
           RTSMAL=0.1000E-03 RMSMAL=0.1000E-05
           RDT   =0.6389E+05 RDR   =0.5181
           RATIOT=0.3507     RATIOR= 0.000
           MAX UN= 17.37     IEQ=    61 NODE     31 DOF   1  Y-DISPL.F
           MIN UN=-.1306E-12 IEQ=    32 NODE     16 DOF   2   X-ROT. F
           NO. OF CONTACT CONSTRAINT VIOLATIONS     0


ITER     2 RNORM = 0.000     RMNORM= 0.000
           RINORM=0.6389E+05 RIMNOR=0.5181
           RENORM= 1015.     REMNOR=0.6228E-18 RATIO =0.1260     TOLER =0.1000E-03  NOT CONVERGED
           RFMAX = 42.19     RMMAX =0.1313
           RTSMAL=0.1000E-03 RMSMAL=0.1000E-05
           RDT   =0.6389E+05 RDR   =0.5181
           RATIOT=0.1260     RATIOR= 0.000
           MAX UN= 10.20     IEQ=    41 NODE     21 DOF   1  Y-DISPL.F
           MIN UN=-.2805E-08 IEQ=    25 NODE     13 DOF   1  Y-DISPL.F
           NO. OF CONTACT CONSTRAINT VIOLATIONS     0


ITER     3 RNORM = 0.000     RMNORM= 0.000
           RINORM=0.6389E+05 RIMNOR=0.5181
           RENORM= 269.5     REMNOR=0.7001E-18 RATIO =0.6495E-01 TOLER =0.1000E-03  NOT CONVERGED
           RFMAX = 42.19     RMMAX =0.1313
           RTSMAL=0.1000E-03 RMSMAL=0.1000E-05
           RDT   =0.6389E+05 RDR   =0.5181
           RATIOT=0.6495E-01 RATIOR= 0.000
           MAX UN= 7.721     IEQ=    67 NODE     34 DOF   1  Y-DISPL.F
           MIN UN=-.4350E-08 IEQ=    49 NODE     25 DOF   1  Y-DISPL.F
           NO. OF CONTACT CONSTRAINT VIOLATIONS     0


ITER     4 RNORM = 0.000     RMNORM= 0.000
           RINORM=0.6389E+05 RIMNOR=0.5181
           RENORM= 24.37     REMNOR=0.3118E-17 RATIO =0.1953E-01 TOLER =0.1000E-03  NOT CONVERGED
           RFMAX = 42.19     RMMAX =0.1313
           RTSMAL=0.1000E-03 RMSMAL=0.1000E-05
           RDT   =0.6389E+05 RDR   =0.5181
           RATIOT=0.1953E-01 RATIOR= 0.000
           MAX UN= 4.224     IEQ=    81 NODE     41 DOF   1  Y-DISPL.F
           MIN UN=-.1920E-07 IEQ=    23 NODE     12 DOF   1  Y-DISPL.F
           NO. OF CONTACT CONSTRAINT VIOLATIONS     0


ITER     5 RNORM = 0.000     RMNORM= 0.000
           RINORM=0.6389E+05 RIMNOR=0.5181
           RENORM=0.4532E-01 REMNOR=0.9019E-18 RATIO =0.8423E-03 TOLER =0.1000E-03  NOT CONVERGED
           RFMAX = 42.19     RMMAX =0.1313
           RTSMAL=0.1000E-03 RMSMAL=0.1000E-05
           RDT   =0.6389E+05 RDR   =0.5181
           RATIOT=0.8423E-03 RATIOR= 0.000
           MAX UN=0.2129     IEQ=    87 NODE     44 DOF   1  Y-DISPL.F
           MIN UN=-.5408E-08 IEQ=    39 NODE     20 DOF   1  Y-DISPL.F
           NO. OF CONTACT CONSTRAINT VIOLATIONS     0


ITER     6 RNORM = 0.000     RMNORM= 0.000
           RINORM=0.6389E+05 RIMNOR=0.5181
           RENORM=0.2961E-15 REMNOR=0.8831E-18 RATIO =0.6807E-10 TOLER =0.1000E-03      CONVERGED !
           RFMAX = 42.19     RMMAX =0.1313
           RTSMAL=0.1000E-03 RMSMAL=0.1000E-05
           RDT   =0.6389E+05 RDR   =0.5181
           RATIOT=0.6807E-10 RATIOR= 0.000
           MAX UN=0.7551E-08 IEQ=     7 NODE      4 DOF   1  Y-DISPL.F
           MIN UN=-.6264E-08 IEQ=    37 NODE     19 DOF   1  Y-DISPL.F
           NO. OF CONTACT CONSTRAINT VIOLATIONS     0
```

```
+-----------------------------------------------------------------------------------------------------------------------+
|                  PARATIEPLUS(TM)   NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*             |
|                                                                                                                       |
|                                                ParatiePlus                                                            |
|                                  Exe Time :28 January 2022   16:22:49                                                 |
+-----------------------------------------------------------------------------------------------------------------------+
New Project
SOLUTION REACHED USING     6 ITERATIONS ON   80

P R I N T   O U T   F O R   T I M E   S T E P   3     ( AT TIME   3.000     ) SUBINCREMENT 00001/00001

PRINT OUT OF ACTIVE COMPONENTS (FIXED NODES ARE NOT PRINTED OUT)

          Y-DISPL.F        X-ROT. F
            02               04
    1   6.3345109E-03  -6.3304908E-04
    2   6.2079010E-03  -6.3304908E-04
    3   6.0812912E-03  -6.3304908E-04
    4   5.9546814E-03  -6.3304908E-04
    5   5.8280716E-03  -6.3304908E-04
    6   5.7013985E-03  -6.3304908E-04
    7   5.5747887E-03  -6.3304908E-04
    8   5.4481789E-03  -6.3304908E-04
    9   5.3184162E-03  -6.3304908E-04
   10   5.1918952E-03  -6.3304873E-04
   11   5.0653745E-03  -6.3304633E-04
   12   4.9388547E-03  -6.3303802E-04
   13   4.8123378E-03  -6.3301676E-04
   14   4.6857640E-03  -6.3297153E-04
   15   4.5592661E-03  -6.3288744E-04
   16   4.4327905E-03  -6.3274559E-04
   17   4.3063509E-03  -6.3252316E-04
   18   4.1799660E-03  -6.3219336E-04
   19   4.0536604E-03  -6.3172545E-04
   20   3.9274650E-03  -6.3108475E-04
   21   3.8031524E-03  -6.3023264E-04
   22   3.6771645E-03  -6.2911718E-04
   23   3.5514943E-03  -6.2767486E-04
   24   3.4261511E-03  -6.2583542E-04
   25   3.3012217E-03  -6.2352387E-04
   26   3.1768084E-03  -6.2066006E-04
   27   3.0530302E-03  -6.1715862E-04
   28   2.9300235E-03  -6.1292903E-04
   29   2.8079435E-03  -6.0787558E-04
   30   2.6869048E-03  -6.0189412E-04
   31   2.5672239E-03  -5.9488454E-04
   32   2.4490545E-03  -5.8677203E-04
   33   2.3326202E-03  -5.7753301E-04
   34   2.2181465E-03  -5.6716763E-04
   35   2.1058569E-03  -5.5569597E-04
   36   1.9959697E-03  -5.4315022E-04
   37   1.8886958E-03  -5.2957069E-04
   38   1.7841857E-03  -5.1499825E-04
   39   1.6827355E-03  -4.9950395E-04
   40   1.5844717E-03  -4.8314536E-04
   41   1.4894918E-03  -4.6599517E-04
   42   1.3980683E-03  -4.4817663E-04
   43   1.3102612E-03  -4.2985983E-04
   44   1.2261531E-03  -4.1121557E-04
   45   1.1457924E-03  -3.9241406E-04
   46   1.0691941E-03  -3.7361739E-04
   47   9.9630674E-04  -3.5496317E-04
   48   9.2715949E-04  -3.3660132E-04
   49   8.6164649E-04  -3.1863892E-04
   50   7.9967738E-04  -3.0117834E-04
   51   7.4114267E-04  -2.8430863E-04
   52   6.8591634E-04  -2.6810626E-04
   53   6.3385828E-04  -2.5263585E-04
   54   5.8481655E-04  -2.3795083E-04
   55   5.3860723E-04  -2.2408740E-04
   56   4.9510729E-04  -2.1109248E-04
   57   4.5411814E-04  -1.9898268E-04
   58   4.1546111E-04  -1.8777304E-04
   59   3.7895536E-04  -1.7747041E-04
   60   3.4441945E-04  -1.6807391E-04
   61   3.1167284E-04  -1.5957540E-04
   62   2.8053733E-04  -1.5195989E-04
   63   2.5082384E-04  -1.4520269E-04
   64   2.2239238E-04  -1.3928290E-04
   65   1.9506424E-04  -1.3416338E-04
   66   1.6868320E-04  -1.2980494E-04
   67   1.4310141E-04  -1.2616301E-04
   68   1.1818046E-04  -1.2318776E-04
   69   9.3792423E-05  -1.2082433E-04
   70   6.9820837E-05  -1.1901288E-04
   71   4.6149926E-05  -1.1768818E-04
   72   2.2712718E-05  -1.1678210E-04
   73  -5.7891257E-07  -1.1621965E-04
   74  -2.3785884E-05  -1.1592196E-04
```

```
75  -4.6952865E-05  -1.1580544E-04
76  -7.0003157E-05  -1.1578184E-04
```

New Project

S T R E S S R E S U L T S F O R G R O U P N O. 1

0_L :
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 76
C U R R E N T T I M E I S 3.0000 SUBINCREMENT 00001/00001

HARDENING 2D SOIL ELEMENT

****** TOTAL STRESS FORMULATION *****

EL * TOR QSL	FORCE UFACTOR ZD	DISPL-Y Peq ZPL	VERTICAL-P Su_a Kz	HORIZON.-P Su_p	MAX-V-P Cohe_a	MAX-H-P Cohe_p	STATE LAYER	STIFFNESS	Z-LEVEL ZFO	PORE	E FAC-QS
1 D	0.000	-6.3345E-03	0.000	0.000	76.00	38.00	ACTIVE	0.000	339.0	0.000	
1.000	1.000	0.000	0.000	0.000	10.00	10.00	Aate_364268_2050_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
2 D	0.000	-6.2079E-03	3.800	0.000	79.80	39.90	ACTIVE	0.000	338.8	0.000	
1.000	1.000	0.000	0.000	0.000	10.00	10.00	Aate_364268_2050_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
3 D	0.000	-6.0813E-03	7.600	0.000	83.60	41.80	ACTIVE	0.000	338.6	0.000	
1.000	1.000	0.000	0.000	0.000	10.00	10.00	Aate_364268_2050_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
4 D	0.000	-5.9547E-03	11.40	0.000	87.40	43.70	ACTIVE	0.000	338.4	0.000	
1.000	1.000	0.000	0.000	0.000	10.00	10.00	Aate_364268_2050_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
5 D	0.000	-5.8281E-03	15.20	0.000	91.20	45.60	ACTIVE	0.000	338.2	0.000	
1.000	1.000	0.000	0.000	0.000	10.00	10.00	Aate_364268_2050_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
6 D	0.000	-5.7014E-03	19.00	0.000	95.00	47.50	ACTIVE	0.000	338.0	0.000	
1.000	1.000	0.000	0.000	0.000	10.00	10.00	Aate_364268_2050_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
7 D	0.000	-5.5748E-03	22.80	0.000	98.80	49.40	ACTIVE	0.000	337.8	0.000	
1.000	1.000	0.000	0.000	0.000	10.00	10.00	Aate_364268_2050_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
8 D	0.000	-5.4482E-03	26.60	0.000	102.6	51.30	ACTIVE	0.000	337.6	0.000	
1.000	1.000	0.000	0.000	0.000	10.00	10.00	Aate_364268_2050_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
9 D	6.5762E-02	-5.3184E-03	30.07	0.000	105.7	52.96	ACTIVE	0.000	337.4	0.3288	
1.000	1.000	0.3288	0.000	0.000	10.00	10.00	Aate_364268_2050_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
10 D	0.2534	-5.1919E-03	32.93	0.000	107.5	53.85	ACTIVE	0.000	337.2	1.267	
1.000	1.000	1.267	0.000	0.000	10.00	10.00	Aate_364268_2050_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
11 D	0.4765	-5.0654E-03	35.80	0.1776	109.3	54.74	ACTIVE	0.000	337.0	2.205	
1.000	1.000	2.383	0.000	0.000	10.00	10.00	Aate_364268_2050_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
12 D	0.8485	-4.9389E-03	38.66	1.099	111.1	55.64	ACTIVE	0.000	336.8	3.143	
1.000	1.000	4.242	0.000	0.000	10.00	10.00	Aate_364268_2050_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
13 D	1.220	-4.8123E-03	41.52	2.021	112.9	56.53	ACTIVE	0.000	336.6	4.081	
1.000	1.000	6.102	0.000	0.000	10.00	10.00	Aate_364268_2050_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
14 D	1.593	-4.6858E-03	44.38	2.943	114.7	57.42	ACTIVE	0.000	336.4	5.020	
1.000	1.000	7.963	0.000	0.000	10.00	10.00	Aate_364268_2050_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
15 D	1.964	-4.5593E-03	47.25	3.864	116.4	58.31	ACTIVE	0.000	336.2	5.958	
1.000	1.000	9.822	0.000	0.000	10.00	10.00	Aate_364268_2050_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
16 D	2.336	-4.4328E-03	50.11	4.786	118.2	59.21	ACTIVE	0.000	336.0	6.896	
1.000	1.000	11.68	0.000	0.000	10.00	10.00	Aate_364268_2050_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
17 D	2.708	-4.3064E-03	52.97	5.707	120.0	60.10	ACTIVE	0.000	335.8	7.834	
1.000	1.000	13.54	0.000	0.000	10.00	10.00	Aate_364268_2050_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
18 D	3.080	-4.1800E-03	55.83	6.629	121.8	60.99	ACTIVE	0.000	335.6	8.772	
1.000	1.000	15.40	0.000	0.000	10.00	10.00	Aate_364268_2050_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
19 D	3.452	-4.0537E-03	58.69	7.550	123.6	61.88	ACTIVE	0.000	335.4	9.710	
1.000	1.000	17.26	0.000	0.000	10.00	10.00	Aate_364268_2050_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
20 D	3.824	-3.9275E-03	61.56	8.472	125.4	62.78	ACTIVE	0.000	335.2	10.65	
1.000	1.000	19.12	0.000	0.000	10.00	10.00	Aate_364268_2050_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
21 D	5.840	-3.8032E-03	64.42	17.61	127.2	71.54	ACTIVE	0.000	335.0	11.59	
1.000	1.000	29.20	0.000	0.000	10.00	10.00	Salt_1270_202756_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
22 D	6.329	-3.6772E-03	67.48	19.12	129.2	72.65	ACTIVE	0.000	334.8	12.53	

```
1.000       1.000       31.64       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  23 D   6.817     -3.5515E-03   70.54       20.62       131.2       73.77         ACTIVE   0.000       334.6       13.46
1.000       1.000       34.09       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  24 D   7.305     -3.4262E-03   73.60       22.13       133.2       74.89         ACTIVE   0.000       334.4       14.40
1.000       1.000       36.53       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  25 D   7.794     -3.3012E-03   76.67       23.63       135.2       76.00         ACTIVE   0.000       334.2       15.34
1.000       1.000       38.97       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  26 D   8.282     -3.1768E-03   79.73       25.13       137.1       77.12         ACTIVE   0.000       334.0       16.28
1.000       1.000       41.41       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  27 D   8.770     -3.0530E-03   82.79       26.64       139.1       78.24         ACTIVE   0.000       333.8       17.22
1.000       1.000       43.85       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  28 D   9.259     -2.9300E-03   85.85       28.14       141.1       79.35         ACTIVE   0.000       333.6       18.15
1.000       1.000       46.29       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  29 D   9.747     -2.8079E-03   88.91       29.64       143.1       80.47         ACTIVE   0.000       333.4       19.09
1.000       1.000       48.73       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  30 D   10.24     -2.6869E-03   91.98       31.15       145.1       81.59         ACTIVE   0.000       333.2       20.03
1.000       1.000       51.18       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  31 D   10.72     -2.5672E-03   95.04       32.65       147.1       82.70         ACTIVE   0.000       333.0       20.97
1.000       1.000       53.62       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  32 D   11.21     -2.4491E-03   98.10       34.15       149.1       83.82         ACTIVE   0.000       332.8       21.91
1.000       1.000       56.06       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  33 D   11.70     -2.3326E-03   101.2       35.66       151.1       84.93         ACTIVE   0.000       332.6       22.85
1.000       1.000       58.50       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  34 D   12.19     -2.2181E-03   104.2       37.16       153.1       86.05         ACTIVE   0.000       332.4       23.78
1.000       1.000       60.94       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  35 D   12.68     -2.1059E-03   107.3       38.66       155.1       87.17         ACTIVE   0.000       332.2       24.72
1.000       1.000       63.38       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  36 D   13.17     -1.9960E-03   110.3       40.17       157.1       88.28         ACTIVE   0.000       332.0       25.66
1.000       1.000       65.83       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  37 D   13.65     -1.8887E-03   113.4       41.67       159.0       89.40         ACTIVE   0.000       331.8       26.60
1.000       1.000       68.27       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  38 D   14.14     -1.7842E-03   116.5       43.17       161.0       90.52         ACTIVE   0.000       331.6       27.54
1.000       1.000       70.71       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  39 D   14.63     -1.6827E-03   119.5       44.68       163.0       91.63         ACTIVE   0.000       331.4       28.47
1.000       1.000       73.15       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  40 D   15.12     -1.5845E-03   122.6       46.18       165.0       92.75         ACTIVE   0.000       331.2       29.41
1.000       1.000       75.59       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  41 D   6.071     -1.4895E-03   125.7       0.000       167.0       83.51         ACTIVE   0.000       331.0       30.35
1.000       1.000       30.35       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  42 D   6.449     -1.3981E-03   128.3       0.000       169.5       84.76         ACTIVE   0.000       330.8       32.25
1.000       1.000       32.25       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  43 D   6.828     -1.3103E-03   130.9       0.000       172.0       86.01         ACTIVE   0.000       330.6       34.14
1.000       1.000       34.14       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  44 D   7.462     -1.2262E-03   133.5       1.274       174.5       87.26          UL-RL  6.1194E+04   330.4       36.03
1.000       1.000       37.31       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  45 D   9.082     -1.1458E-03   136.1       7.483       177.0       88.51          UL-RL  6.1194E+04   330.2       37.93
1.000       1.000       45.41       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  46 D   10.66     -1.0692E-03   138.7       13.46       179.5       89.76          UL-RL  6.1194E+04   330.0       39.82
1.000       1.000       53.28       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  47 D   12.19     -9.9631E-04   141.3       19.21       182.0       91.01          UL-RL  6.1194E+04   329.8       41.72
1.000       1.000       60.93       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  48 D   13.67     -9.2716E-04   143.9       24.73       184.5       92.26          UL-RL  6.1194E+04   329.6       43.61
1.000       1.000       68.34       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  49 D   15.11     -8.6165E-04   146.5       30.03       187.0       93.51          UL-RL  6.1194E+04   329.4       45.50
1.000       1.000       75.54       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  50 D   16.50     -7.9968E-04   149.1       35.11       189.5       94.76          UL-RL  6.1194E+04   329.2       47.40
1.000       1.000       82.51       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  51 D   17.86     -7.4114E-04   151.7       39.98       192.0       96.01          UL-RL  6.1194E+04   329.0       49.29
1.000       1.000       89.28       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  52 D   19.17     -6.8592E-04   154.3       44.65       194.5       97.26          UL-RL  6.1194E+04   328.8       51.19
1.000       1.000       95.84       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
```

53 D	20.44	-6.3386E-04	156.9	49.13	197.0	98.51	UL-RL	6.1194E+04	328.6	53.08	
1.000	1.000	102.2	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
54 D	21.68	-5.8482E-04	159.5	53.41	199.5	99.76	UL-RL	6.1194E+04	328.4	54.97	
1.000	1.000	108.4	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
55 D	22.88	-5.3861E-04	162.1	57.53	202.0	101.0	UL-RL	6.1194E+04	328.2	56.87	
1.000	1.000	114.4	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
56 D	24.05	-4.9511E-04	164.8	61.48	204.5	102.3	UL-RL	6.1194E+04	328.0	58.76	
1.000	1.000	120.2	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
57 D	25.19	-4.5412E-04	167.4	65.27	207.0	103.5	UL-RL	6.1194E+04	327.8	60.66	
1.000	1.000	125.9	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
58 D	26.29	-4.1546E-04	170.0	68.92	209.5	104.8	UL-RL	6.1194E+04	327.6	62.55	
1.000	1.000	131.5	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
59 D	27.38	-3.7896E-04	172.6	72.44	212.0	106.0	UL-RL	6.1194E+04	327.4	64.44	
1.000	1.000	136.9	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
60 D	28.44	-3.4442E-04	175.2	75.84	214.5	107.3	UL-RL	6.1194E+04	327.2	66.34	
1.000	1.000	142.2	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
61 D	29.47	-3.1167E-04	177.8	79.13	217.0	108.5	UL-RL	6.1194E+04	327.0	68.23	
1.000	1.000	147.4	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
62 D	30.49	-2.8054E-04	180.4	82.32	219.5	109.8	UL-RL	6.1194E+04	326.8	70.12	
1.000	1.000	152.4	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
63 D	31.49	-2.5082E-04	183.0	85.43	222.0	111.0	UL-RL	6.1194E+04	326.6	72.02	
1.000	1.000	157.4	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
64 D	32.47	-2.2239E-04	185.6	88.45	224.5	112.2	UL-RL	6.1194E+04	326.4	73.91	
1.000	1.000	162.4	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
65 D	33.44	-1.9506E-04	188.2	91.41	227.0	113.5	UL-RL	6.1194E+04	326.2	75.81	
1.000	1.000	167.2	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
66 D	34.40	-1.6868E-04	190.8	94.31	229.5	114.7	UL-RL	6.1194E+04	326.0	77.70	
1.000	1.000	172.0	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
67 D	35.35	-1.4310E-04	193.4	97.16	232.0	116.0	UL-RL	6.1194E+04	325.8	79.59	
1.000	1.000	176.8	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
68 D	36.29	-1.1818E-04	196.0	99.97	234.5	117.2	UL-RL	6.1194E+04	325.6	81.49	
1.000	1.000	181.5	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
69 D	37.22	-9.3792E-05	198.6	102.7	237.0	118.5	UL-RL	6.1194E+04	325.4	83.38	
1.000	1.000	186.1	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
70 D	38.15	-6.9821E-05	201.2	105.5	239.5	119.7	UL-RL	6.1194E+04	325.2	85.28	
1.000	1.000	190.8	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
71 D	39.08	-4.6150E-05	203.8	108.2	242.0	121.0	UL-RL	6.1194E+04	325.0	87.17	
1.000	1.000	195.4	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
72 D	40.00	-2.2713E-05	206.5	110.9	244.5	122.2	UL-RL	6.1194E+04	324.8	89.06	
1.000	1.000	200.0	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
73 D	40.92	5.7891E-07	209.1	113.7	247.0	123.5	UL-RL	6.1194E+04	324.6	90.96	
1.000	1.000	204.6	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
74 D	41.84	2.3786E-05	211.7	116.4	249.5	124.7	UL-RL	6.1194E+04	324.4	92.85	
1.000	1.000	209.2	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
75 D	42.76	4.6953E-05	214.3	119.1	252.0	126.0	UL-RL	6.1194E+04	324.2	94.75	
1.000	1.000	213.8	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
76 D	21.84	7.0003E-05	216.9	121.7	254.5	127.2	UL-RL	6.1194E+04	324.0	96.63	
1.000	1.000	218.4	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							

```
+-----------------------------------------------------------------------------------------------------------------------+
|                  PARATIEPLUS(TM)   NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*             |
|                                                                                                                       |
|                                            ParatiePlus                                                                |
|                                 Exe Time :28 January 2022   16:22:49                                                  |
+-----------------------------------------------------------------------------------------------------------------------+
New Project


S T R E S S   R E S U L T S   F O R   G R O U P   N O.   2

0_R                                                    :
ELEMENT TYPE    5 NO.OF ELEMENTS. IN THIS GROUP   76
C U R R E N T   T I M E   I S      3.0000 SUBINCREMENT 00001/00001

 HARDENING 2D SOIL ELEMENT

 ****** TOTAL STRESS FORMULATION *****

  EL *   FORCE     DISPL-Y  VERTICAL-P  HORIZON.-P     MAX-V-P     MAX-H-P          STATE   STIFFNESS Z-LEVEL      PORE       E FAC-
TOR    UFACTOR       Peq          Su_a        Su_p        Cohe_a      Cohe_p     LAYER                              ZFO         QS
QSL         ZD          ZPL          Kz
 ------------------------------------------------------------------------------------------------------------------------------
------------------------------------------------------------------------------------------------------------------------------
-----------------------------------------------
   1     0.000         --          --          --          --          --         REMOVED     --        339.0       0.000
1.000       1.000       0.000       0.000       0.000       0.000       0.000     not available
   2     0.000         --          --          --          --          --         REMOVED     --        338.8       0.000
1.000       1.000       0.000       0.000       0.000       0.000       0.000     not available
   3     0.000         --          --          --          --          --         REMOVED     --        338.6       0.000
1.000       1.000       0.000       0.000       0.000       0.000       0.000     not available
   4     0.000         --          --          --          --          --         REMOVED     --        338.4       0.000
1.000       1.000       0.000       0.000       0.000       0.000       0.000     not available
   5     0.000         --          --          --          --          --         REMOVED     --        338.2       0.000
1.000       1.000       0.000       0.000       0.000       0.000       0.000     not available
   6     0.000         --          --          --          --          --         REMOVED     --        338.0       0.000
1.000       1.000       0.000       0.000       0.000       0.000       0.000     not available
   7     0.000         --          --          --          --          --         REMOVED     --        337.8       0.000
1.000       1.000       0.000       0.000       0.000       0.000       0.000     not available
   8     0.000         --          --          --          --          --         REMOVED     --        337.6       0.000
1.000       1.000       0.000       0.000       0.000       0.000       0.000     not available
   9     0.000         --          --          --          --          --         REMOVED     --        337.4       0.000
1.000       1.000       0.000       0.000       0.000       0.000       0.000     not available
  10     0.000         --          --          --          --          --         REMOVED     --        337.2       0.000
1.000       1.000       0.000       0.000       0.000       0.000       0.000     not available
  11     0.000         --          --          --          --          --         REMOVED     --        337.0       0.000
1.000       1.000       0.000       0.000       0.000       0.000       0.000     not available
  12     0.000         --          --          --          --          --         REMOVED     --        336.8       0.000
1.000       1.000       0.000       0.000       0.000       0.000       0.000     not available
  13     0.000         --          --          --          --          --         REMOVED     --        336.6       0.000
1.000       1.000       0.000       0.000       0.000       0.000       0.000     not available
  14     0.000         --          --          --          --          --         REMOVED     --        336.4       0.000
1.000       1.000       0.000       0.000       0.000       0.000       0.000     not available
  15     0.000         --          --          --          --          --         REMOVED     --        336.2       0.000
1.000       1.000       0.000       0.000       0.000       0.000       0.000     not available
  16     0.000         --          --          --          --          --         REMOVED     --        336.0       0.000
1.000       1.000       0.000       0.000       0.000       0.000       0.000     not available
  17     0.000         --          --          --          --          --         REMOVED     --        335.8       0.000
1.000       1.000       0.000       0.000       0.000       0.000       0.000     not available
  18     0.000         --          --          --          --          --         REMOVED     --        335.6       0.000
1.000       1.000       0.000       0.000       0.000       0.000       0.000     not available
  19     0.000         --          --          --          --          --         REMOVED     --        335.4       0.000
1.000       1.000       0.000       0.000       0.000       0.000       0.000     not available
  20     0.000         --          --          --          --          --         REMOVED     --        335.2       0.000
1.000       1.000       0.000       0.000       0.000       0.000       0.000     not available
  21     0.000         --          --          --          --          --         REMOVED     --        335.0       0.000
1.000       1.000       0.000       0.000       0.000       0.000       0.000     not available
  22     0.000         --          --          --          --          --         REMOVED     --        334.8       0.000
1.000       1.000       0.000       0.000       0.000       0.000       0.000     not available
  23     0.000         --          --          --          --          --         REMOVED     --        334.6       0.000
1.000       1.000       0.000       0.000       0.000       0.000       0.000     not available
  24     0.000         --          --          --          --          --         REMOVED     --        334.4       0.000
1.000       1.000       0.000       0.000       0.000       0.000       0.000     not available
  25     0.000         --          --          --          --          --         REMOVED     --        334.2       0.000
1.000       1.000       0.000       0.000       0.000       0.000       0.000     not available
  26     0.000         --          --          --          --          --         REMOVED     --        334.0       0.000
1.000       1.000       0.000       0.000       0.000       0.000       0.000     not available
  27     0.000         --          --          --          --          --         REMOVED     --        333.8       0.000
1.000       1.000       0.000       0.000       0.000       0.000       0.000     not available
  28     0.000         --          --          --          --          --         REMOVED     --        333.6       0.000
1.000       1.000       0.000       0.000       0.000       0.000       0.000     not available
  29     0.000         --          --          --          --          --         REMOVED     --        333.4       0.000
1.000       1.000       0.000       0.000       0.000       0.000       0.000     not available
  30     0.000         --          --          --          --          --         REMOVED     --        333.2       0.000
1.000       1.000       0.000       0.000       0.000       0.000       0.000     not available
  31 D   7.385      2.5672E-03  8.0000E-03   36.93       146.9       82.53         PASSIVE   0.000       333.0       0.000
1.000       1.000       36.93       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  32 D   10.11      2.4491E-03   4.008       50.54       148.9       83.66         PASSIVE   0.000       332.8       0.000
```

```
1.000       1.000       50.54       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  33 D   12.83       2.3326E-03  8.008       64.16       150.9       84.79         PASSIVE   0.000       332.6       0.000
1.000       1.000       64.16       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  34 D   14.84       2.2181E-03  10.52       72.71       152.9       85.92         PASSIVE   0.000       332.4       1.488
1.000       1.000       74.20       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  35 D   16.09       2.1059E-03  11.46       75.90       154.9       87.05         PASSIVE   0.000       332.2       4.550
1.000       1.000       80.45       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  36 D   17.34       1.9960E-03  12.40       79.10       156.9       88.18         PASSIVE   0.000       332.0       7.612
1.000       1.000       86.71       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  37 D   18.59       1.8887E-03  13.33       82.29       158.9       89.31         PASSIVE   0.000       331.8       10.67
1.000       1.000       92.96       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  38 D   19.84       1.7842E-03  14.27       85.48       160.9       90.44         PASSIVE   0.000       331.6       13.74
1.000       1.000       99.22       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  39 D   21.10       1.6827E-03  15.21       88.68       162.9       91.56         PASSIVE   0.000       331.4       16.80
1.000       1.000       105.5       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  40 D   22.35       1.5845E-03  16.15       91.87       164.9       92.69         PASSIVE   0.000       331.2       19.86
1.000       1.000       111.7       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  41 D   22.06       1.4895E-03  17.09       87.37       166.9       87.37           V-C  1.5320E+04   331.0       22.92
1.000       1.000       110.3       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  42 D   22.50       1.3981E-03  19.48       87.47       169.4       87.47           V-C  1.5320E+04   330.8       25.03
1.000       1.000       112.5       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  43 D   22.95       1.3103E-03  21.88       87.61       171.9       87.61           V-C  1.5320E+04   330.6       27.13
1.000       1.000       114.7       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  44 D   23.40       1.2262E-03  24.27       87.78       174.4       87.78           V-C  1.5320E+04   330.4       29.24
1.000       1.000       117.0       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  45 D   23.67       1.1458E-03  26.67       86.99       176.9       88.47          UL-RL  4.5960E+04   330.2       31.35
1.000       1.000       118.3       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  46 D   23.74       1.0692E-03  29.06       85.24       179.5       89.73          UL-RL  4.5960E+04   330.0       33.45
1.000       1.000       118.7       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  47 D   23.83       9.9631E-04  31.45       83.61       182.0       90.98          UL-RL  4.5960E+04   329.8       35.56
1.000       1.000       119.2       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  48 D   23.95       9.2716E-04  33.85       82.11       184.5       92.23          UL-RL  4.5960E+04   329.6       37.66
1.000       1.000       119.8       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  49 D   24.10       8.6165E-04  36.24       80.75       187.0       93.48          UL-RL  4.5960E+04   329.4       39.77
1.000       1.000       120.5       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  50 D   24.28       7.9968E-04  38.64       79.52       189.5       94.73          UL-RL  4.5960E+04   329.2       41.88
1.000       1.000       121.4       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  51 D   24.48       7.4114E-04  41.03       78.43       192.0       95.98          UL-RL  4.5960E+04   329.0       43.98
1.000       1.000       122.4       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  52 D   24.71       6.8592E-04  43.42       77.46       194.5       97.23          UL-RL  4.5960E+04   328.8       46.09
1.000       1.000       123.6       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  53 D   24.96       6.3386E-04  45.82       76.62       197.0       98.48          UL-RL  4.5960E+04   328.6       48.20
1.000       1.000       124.8       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  54 D   25.24       5.8482E-04  48.21       75.90       199.5       99.73          UL-RL  4.5960E+04   328.4       50.30
1.000       1.000       126.2       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  55 D   25.54       5.3861E-04  50.61       75.29       202.0       101.0          UL-RL  4.5960E+04   328.2       52.41
1.000       1.000       127.7       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  56 D   25.86       4.9511E-04  53.00       74.80       204.5       102.2          UL-RL  4.5960E+04   328.0       54.52
1.000       1.000       129.3       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  57 D   26.20       4.5412E-04  55.39       74.40       207.0       103.5          UL-RL  4.5960E+04   327.8       56.62
1.000       1.000       131.0       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  58 D   26.57       4.1546E-04  57.79       74.10       209.5       104.7          UL-RL  4.5960E+04   327.6       58.73
1.000       1.000       132.8       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  59 D   26.94       3.7896E-04  60.18       73.88       212.0       106.0          UL-RL  4.5960E+04   327.4       60.83
1.000       1.000       134.7       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  60 D   27.34       3.4442E-04  62.58       73.75       214.5       107.2          UL-RL  4.5960E+04   327.2       62.94
1.000       1.000       136.7       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  61 D   27.75       3.1167E-04  64.97       73.68       217.0       108.5          UL-RL  4.5960E+04   327.0       65.05
1.000       1.000       138.7       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  62 D   28.17       2.8054E-04  67.36       73.68       219.5       109.7          UL-RL  4.5960E+04   326.8       67.15
1.000       1.000       140.8       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
```

63 D	28.60	2.5082E-04	69.76	73.74	222.0	111.0	UL-RL	4.5960E+04	326.6	69.26
1.000	1.000	143.0	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
64 D	29.04	2.2239E-04	72.15	73.85	224.5	112.2	UL-RL	4.5960E+04	326.4	71.37
1.000	1.000	145.2	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
65 D	29.49	1.9506E-04	74.55	74.00	227.0	113.5	UL-RL	4.5960E+04	326.2	73.47
1.000	1.000	147.5	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
66 D	29.95	1.6868E-04	76.94	74.19	229.5	114.7	UL-RL	4.5960E+04	326.0	75.58
1.000	1.000	149.8	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
67 D	30.42	1.4310E-04	79.33	74.40	232.0	116.0	UL-RL	4.5960E+04	325.8	77.68
1.000	1.000	152.1	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
68 D	30.89	1.1818E-04	81.73	74.64	234.5	117.2	UL-RL	4.5960E+04	325.6	79.79
1.000	1.000	154.4	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
69 D	31.36	9.3792E-05	84.12	74.90	237.0	118.5	UL-RL	4.5960E+04	325.4	81.90
1.000	1.000	156.8	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
70 D	31.84	6.9821E-05	86.52	75.18	239.5	119.7	UL-RL	4.5960E+04	325.2	84.00
1.000	1.000	159.2	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
71 D	32.31	4.6150E-05	88.91	75.46	242.0	121.0	UL-RL	4.5960E+04	325.0	86.11
1.000	1.000	161.6	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
72 D	32.79	2.2713E-05	91.30	75.75	244.5	122.2	UL-RL	4.5960E+04	324.8	88.22
1.000	1.000	164.0	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
73 D	33.27	-5.7891E-07	93.70	76.03	247.0	123.5	UL-RL	4.5960E+04	324.6	90.32
1.000	1.000	166.4	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
74 D	33.75	-2.3786E-05	96.09	76.32	249.5	124.7	UL-RL	4.5960E+04	324.4	92.43
1.000	1.000	168.8	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
75 D	34.23	-4.6953E-05	98.49	76.61	252.0	126.0	UL-RL	4.5960E+04	324.2	94.53
1.000	1.000	171.1	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
76 D	17.35	-7.0003E-05	100.9	76.89	254.5	127.2	UL-RL	4.5960E+04	324.0	96.63
1.000	1.000	173.5	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						

New Project

S T R E S S   R E S U L T S   F O R   G R O U P   N O.   3

Pali1500_253215   :
ELEMENT TYPE   2 NO.OF ELEMENTS. IN THIS GROUP   75
C U R R E N T   T I M E   I S   3.0000 SUBINCREMENT 00001/00001

 WALL2D ELEMENT

EL	TA	TB	MA	MB
1	-1.19736E-09	1.19736E-09	-1.19282E-10	8.88471E-10
2	-1.53409E-09	1.53409E-09	-1.16178E-09	8.30162E-10
3	3.13212E-09	-3.13212E-09	-6.72778E-10	2.00906E-09
4	-4.41918E-09	4.41918E-09	-2.13807E-09	6.76506E-10
5	1.81842E-09	-1.81842E-09	-9.36781E-10	2.08595E-09
6	-8.26272E-11	8.26272E-11	-1.91563E-09	2.38201E-09
7	-4.74513E-10	4.74513E-10	-2.44132E-09	2.26580E-09
8	-1.46397E-09	1.46397E-09	-2.46500E-09	1.30305E-09
9	6.57623E-02	-6.57623E-02	-1.23531E-09	1.31525E-02
10	0.31915	-0.31915	-1.31525E-02	7.69823E-02
11	0.79568	-0.79568	-7.69823E-02	0.23612
12	1.6441	-1.6441	-0.23612	0.56494
13	2.8645	-2.8645	-0.56494	1.1381
14	4.4570	-4.4570	-1.1381	2.0295
15	6.4214	-6.4214	-2.0295	3.3138
16	8.7578	-8.7578	-3.3138	5.0654
17	11.466	-11.466	-5.0654	7.3586
18	14.546	-14.546	-7.3586	10.268
19	17.998	-17.998	-10.268	13.868
20	21.823	-21.823	-13.868	18.232
21	27.663	-27.663	-18.232	23.767
22	33.992	-33.992	-23.767	30.566
23	40.809	-40.809	-30.566	38.727
24	48.114	-48.114	-38.727	48.350
25	55.908	-55.908	-48.350	59.532
26	64.190	-64.190	-59.532	72.370
27	72.960	-72.960	-72.370	86.962
28	82.219	-82.219	-86.962	103.41
29	91.966	-91.966	-103.41	121.81
30	102.20	-102.20	-121.81	142.25
31	105.54	-105.54	-142.25	163.36
32	106.64	-106.64	-163.36	184.68
33	105.51	-105.51	-184.68	205.79
34	102.86	-102.86	-205.79	226.36
35	99.447	-99.447	-226.36	246.25
36	95.271	-95.271	-246.25	265.30
37	90.331	-90.331	-265.30	283.38
38	84.629	-84.629	-283.38	300.30
39	78.164	-78.164	-300.30	315.94
40	70.936	-70.936	-315.94	330.12
41	54.950	-54.950	-330.12	341.11
42	38.899	-38.899	-341.11	348.89
43	22.779	-22.779	-348.89	353.45
44	6.8380	-6.8380	-353.45	354.82
45	-7.7478	7.7478	-354.82	353.27
46	-20.829	20.829	-353.27	349.10
47	-32.475	32.475	-349.10	342.60
48	-42.761	42.761	-342.60	334.05
49	-51.758	51.758	-334.05	323.70
50	-59.535	59.535	-323.70	311.79
51	-66.162	66.162	-311.79	298.56
52	-71.704	71.704	-298.56	284.22
53	-76.227	76.227	-284.22	268.98
54	-79.790	79.790	-268.98	253.01
55	-82.451	82.451	-253.01	236.52
56	-84.265	84.265	-236.52	219.67
57	-85.284	85.284	-219.67	202.61
58	-85.554	85.554	-202.61	185.50
59	-85.120	85.120	-185.50	168.47
60	-84.021	84.021	-168.47	151.67
61	-82.294	82.294	-151.67	135.21
62	-79.971	79.971	-135.21	119.21
63	-77.082	77.082	-119.21	103.79
64	-73.651	73.651	-103.79	89.063
65	-69.702	69.702	-89.063	75.123
66	-65.253	65.253	-75.123	62.072
67	-60.320	60.320	-62.072	50.008
68	-54.916	54.916	-50.008	39.025
69	-49.051	49.051	-39.025	29.214
70	-42.733	42.733	-29.214	20.663

```
   71 -35.968      35.968     -20.663      13.470
   72 -28.759      28.759     -13.470      7.7180
   73 -21.108      21.108     -7.7180      3.4964
   74 -13.017      13.017     -3.4964     0.89302
   75 -4.4853      4.4853    -0.89302    -2.55257E-12

ITER     0 RNORM = 0.000     RMNORM= 0.000
           RINORM=0.5824E+06 RIMNOR=0.5006E+07
           RENORM=0.2961E-15 REMNOR=0.8831E-18 RATIO =0.2255E-10 TOLER =0.1000E-03      CONVERGED !
           RFMAX = 106.6     RMMAX = 354.8
           RTSMAL=0.1000E-02 RMSMAL=0.1000E-02
           RDT   =0.5824E+06 RDR   =0.5006E+07
           RATIOT=0.2255E-10 RATIOR= 0.000
           MAX UN=0.7551E-08 IEQ=     7 NODE      4 DOF   1  Y-DISPL.F
           MIN UN=-.6264E-08 IEQ=    37 NODE     19 DOF   1  Y-DISPL.F
           NO. OF CONTACT CONSTRAINT VIOLATIONS     0


ITER     1 RNORM = 0.000     RMNORM= 0.000
           RINORM=0.5824E+06 RIMNOR=0.5006E+07
           RENORM=0.3086E-15 REMNOR=0.8494E-18 RATIO =0.2302E-10 TOLER =0.1000E-03      CONVERGED !
           RFMAX = 106.6     RMMAX = 354.8
           RTSMAL=0.1000E-02 RMSMAL=0.1000E-02
           RDT   =0.5824E+06 RDR   =0.5006E+07
           RATIOT=0.2302E-10 RATIOR= 0.000
           MAX UN=0.7352E-08 IEQ=    29 NODE     15 DOF   1  Y-DISPL.F
           MIN UN=-.7237E-08 IEQ=    27 NODE     14 DOF   1  Y-DISPL.F
           NO. OF CONTACT CONSTRAINT VIOLATIONS     0


ITER     2 RNORM = 0.000     RMNORM= 0.000
           RINORM=0.5824E+06 RIMNOR=0.5006E+07
           RENORM=0.2993E-15 REMNOR=0.1016E-17 RATIO =0.2267E-10 TOLER =0.1000E-03      CONVERGED !
           RFMAX = 106.6     RMMAX = 354.8
           RTSMAL=0.1000E-02 RMSMAL=0.1000E-02
           RDT   =0.5824E+06 RDR   =0.5006E+07
           RATIOT=0.2267E-10 RATIOR= 0.000
           MAX UN=0.7352E-08 IEQ=    29 NODE     15 DOF   1  Y-DISPL.F
           MIN UN=-.7237E-08 IEQ=    27 NODE     14 DOF   1  Y-DISPL.F
           NO. OF CONTACT CONSTRAINT VIOLATIONS     0
```

```
+-----------------------------------------------------------------------------------------------------------------------+
|                   PARATIEPLUS(TM)   NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*             |
|                                                                                                                       |
|                                                ParatiePlus                                                            |
|                                  Exe Time :28 January 2022   16:22:49                                                 |
+-----------------------------------------------------------------------------------------------------------------------+
New Project
SOLUTION REACHED USING     2 ITERATIONS ON   80

P R I N T   O U T   F O R   T I M E   S T E P   4     ( AT TIME   4.000     ) SUBINCREMENT 00001/00001

PRINT OUT OF ACTIVE COMPONENTS (FIXED NODES ARE NOT PRINTED OUT)

          Y-DISPL.F        X-ROT. F
            02               04
    1   6.3345109E-03  -6.3304908E-04
    2   6.2079010E-03  -6.3304908E-04
    3   6.0812912E-03  -6.3304908E-04
    4   5.9546814E-03  -6.3304908E-04
    5   5.8280716E-03  -6.3304908E-04
    6   5.7013985E-03  -6.3304908E-04
    7   5.5747887E-03  -6.3304908E-04
    8   5.4481789E-03  -6.3304908E-04
    9   5.3184162E-03  -6.3304908E-04
   10   5.1918952E-03  -6.3304873E-04
   11   5.0653745E-03  -6.3304633E-04
   12   4.9388547E-03  -6.3303802E-04
   13   4.8123378E-03  -6.3301676E-04
   14   4.6857640E-03  -6.3297153E-04
   15   4.5592661E-03  -6.3288744E-04
   16   4.4327905E-03  -6.3274559E-04
   17   4.3063509E-03  -6.3252316E-04
   18   4.1799660E-03  -6.3219336E-04
   19   4.0536604E-03  -6.3172545E-04
   20   3.9274650E-03  -6.3108475E-04
   21   3.8031524E-03  -6.3023264E-04
   22   3.6771645E-03  -6.2911718E-04
   23   3.5514943E-03  -6.2767486E-04
   24   3.4261511E-03  -6.2583542E-04
   25   3.3012217E-03  -6.2352387E-04
   26   3.1768084E-03  -6.2066006E-04
   27   3.0530302E-03  -6.1715862E-04
   28   2.9300235E-03  -6.1292903E-04
   29   2.8079435E-03  -6.0787558E-04
   30   2.6869048E-03  -6.0189412E-04
   31   2.5672239E-03  -5.9488454E-04
   32   2.4490545E-03  -5.8677203E-04
   33   2.3326202E-03  -5.7753301E-04
   34   2.2181465E-03  -5.6716763E-04
   35   2.1058569E-03  -5.5569597E-04
   36   1.9959697E-03  -5.4315022E-04
   37   1.8886958E-03  -5.2957069E-04
   38   1.7841857E-03  -5.1499825E-04
   39   1.6827355E-03  -4.9950395E-04
   40   1.5844717E-03  -4.8314536E-04
   41   1.4894918E-03  -4.6599517E-04
   42   1.3980683E-03  -4.4817663E-04
   43   1.3102612E-03  -4.2985983E-04
   44   1.2261531E-03  -4.1121557E-04
   45   1.1457924E-03  -3.9241406E-04
   46   1.0691941E-03  -3.7361739E-04
   47   9.9630674E-04  -3.5496317E-04
   48   9.2715949E-04  -3.3660132E-04
   49   8.6164649E-04  -3.1863892E-04
   50   7.9967738E-04  -3.0117834E-04
   51   7.4114267E-04  -2.8430863E-04
   52   6.8591634E-04  -2.6810626E-04
   53   6.3385828E-04  -2.5263585E-04
   54   5.8481655E-04  -2.3795083E-04
   55   5.3860723E-04  -2.2408740E-04
   56   4.9510729E-04  -2.1109248E-04
   57   4.5411814E-04  -1.9898268E-04
   58   4.1546111E-04  -1.8777304E-04
   59   3.7895536E-04  -1.7747041E-04
   60   3.4441945E-04  -1.6807391E-04
   61   3.1167284E-04  -1.5957540E-04
   62   2.8053733E-04  -1.5195989E-04
   63   2.5082384E-04  -1.4520269E-04
   64   2.2239238E-04  -1.3928290E-04
   65   1.9506424E-04  -1.3416338E-04
   66   1.6868320E-04  -1.2980494E-04
   67   1.4310141E-04  -1.2616301E-04
   68   1.1818046E-04  -1.2318776E-04
   69   9.3792423E-05  -1.2082433E-04
   70   6.9820837E-05  -1.1901288E-04
   71   4.6149926E-05  -1.1768818E-04
   72   2.2712718E-05  -1.1678210E-04
   73  -5.7891257E-07  -1.1621965E-04
   74  -2.3785884E-05  -1.1592196E-04
```

```
75  -4.6952865E-05  -1.1580544E-04
76  -7.0003157E-05  -1.1578184E-04
```

```
+-----------------------------------------------------------------------------------------------------------------------------+
|                  PARATIEPLUS(TM)   NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*                    |
|                                                                                                                             |
|                                              ParatiePlus                                                                    |
|                                    Exe Time :28 January 2022   16:22:49                                                     |
+-----------------------------------------------------------------------------------------------------------------------------+
New Project


S T R E S S   R E S U L T S   F O R   G R O U P   N O.   1

0_L                                                    :
ELEMENT TYPE    5 NO.OF ELEMENTS. IN THIS GROUP   76
C U R R E N T   T I M E   I S      4.0000 SUBINCREMENT 00001/00001

 HARDENING 2D SOIL ELEMENT

 ****** TOTAL STRESS FORMULATION *****

  EL *   FORCE     DISPL-Y  VERTICAL-P  HORIZON.-P     MAX-V-P     MAX-H-P          STATE   STIFFNESS Z-LEVEL      PORE       E FAC-
TOR    UFACTOR       Peq          Su_a        Su_p        Cohe_a      Cohe_p     LAYER                              ZFO         QS
QSL         ZD          ZPL          Kz
 ------------------------------------------------------------------------------------------------------------------------------
-----------------------------------------------------------------------------------------------------------------------------
-----------------------------------------------
   1 D  9.4053E-13 -6.3345E-03   0.000      9.4053E-12   76.00       38.00          UL-RL  2.6512E+04   339.0       0.000
1.000       1.000      9.4053E-12   0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000       0.0000      0.0000      0.0000
   2 D  1.8167E-12 -6.2079E-03   3.800      9.0834E-12   79.80       39.90          UL-RL  2.6512E+04   338.8       0.000
1.000       1.000      9.0834E-12   0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000       0.0000      0.0000      0.0000
   3 D  1.7523E-12 -6.0813E-03   7.600      8.7614E-12   83.60       41.80          UL-RL  2.6512E+04   338.6       0.000
1.000       1.000      8.7614E-12   0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000       0.0000      0.0000      0.0000
   4 D  1.6833E-12 -5.9547E-03   11.40      8.4165E-12   87.40       43.70          UL-RL  2.6512E+04   338.4       0.000
1.000       1.000      8.4165E-12   0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000       0.0000      0.0000      0.0000
   5 D  1.6235E-12 -5.8281E-03   15.20      8.1175E-12   91.20       45.60          UL-RL  2.6512E+04   338.2       0.000
1.000       1.000      8.1175E-12   0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000       0.0000      0.0000      0.0000
   6 D  1.5545E-12 -5.7014E-03   19.00      7.7726E-12   95.00       47.50          UL-RL  2.6512E+04   338.0       0.000
1.000       1.000      7.7726E-12   0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000       0.0000      0.0000      0.0000
   7 D  1.4901E-12 -5.5748E-03   22.80      7.4507E-12   98.80       49.40          UL-RL  2.6512E+04   337.8       0.000
1.000       1.000      7.4507E-12   0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000       0.0000      0.0000      0.0000
   8 D  1.4257E-12 -5.4482E-03   26.60      7.1287E-12   102.6       51.30          UL-RL  2.6512E+04   337.6       0.000
1.000       1.000      7.1287E-12   0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000       0.0000      0.0000      0.0000
   9 D  6.5762E-02 -5.3184E-03   30.07      6.8068E-12   105.7       52.96          UL-RL  2.6512E+04   337.4       0.3288
1.000       1.000       0.3288      0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000       0.0000      0.0000      0.0000
  10 D  0.2534     -5.1919E-03   32.93      6.4848E-12   107.5       53.85          UL-RL  2.6512E+04   337.2       1.267
1.000       1.000        1.267      0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000       0.0000      0.0000      0.0000
  11 D  0.4765     -5.0654E-03   35.80      0.1776       109.3       54.74          UL-RL  2.6512E+04   337.0       2.205
1.000       1.000        2.383      0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000       0.0000      0.0000      0.0000
  12 D  0.8485     -4.9389E-03   38.66       1.099       111.1       55.64          UL-RL  2.6512E+04   336.8       3.143
1.000       1.000        4.242      0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000       0.0000      0.0000      0.0000
  13 D   1.220     -4.8123E-03   41.52       2.021       112.9       56.53          UL-RL  2.6512E+04   336.6       4.081
1.000       1.000        6.102      0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000       0.0000      0.0000      0.0000
  14 D   1.593     -4.6858E-03   44.38       2.943       114.7       57.42          UL-RL  2.6512E+04   336.4       5.020
1.000       1.000        7.963      0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000       0.0000      0.0000      0.0000
  15 D   1.964     -4.5593E-03   47.25       3.864       116.4       58.31          UL-RL  2.6512E+04   336.2       5.958
1.000       1.000        9.822      0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000       0.0000      0.0000      0.0000
  16 D   2.336     -4.4328E-03   50.11       4.786       118.2       59.21          UL-RL  2.6512E+04   336.0       6.896
1.000       1.000        11.68      0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000       0.0000      0.0000      0.0000
  17 D   2.708     -4.3064E-03   52.97       5.707       120.0       60.10          UL-RL  2.6512E+04   335.8       7.834
1.000       1.000        13.54      0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000       0.0000      0.0000      0.0000
  18 D   3.080     -4.1800E-03   55.83       6.629       121.8       60.99          UL-RL  2.6512E+04   335.6       8.772
1.000       1.000        15.40      0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000       0.0000      0.0000      0.0000
  19 D   3.452     -4.0537E-03   58.69       7.550       123.6       61.88          UL-RL  2.6512E+04   335.4       9.710
1.000       1.000        17.26      0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000       0.0000      0.0000      0.0000
  20 D   3.824     -3.9275E-03   61.56       8.472       125.4       62.78          UL-RL  2.6512E+04   335.2       10.65
1.000       1.000        19.12      0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000       0.0000      0.0000      0.0000
  21 D   5.840     -3.8032E-03   64.42       17.61       127.2       71.54          UL-RL  1.2003E+05   335.0       11.59
1.000       1.000        29.20      0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000       0.0000      0.0000      0.0000
  22 D   6.329     -3.6772E-03   67.48       19.12       129.2       72.65          UL-RL  1.2003E+05   334.8       12.53
```

```
1.000       1.000       31.64       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  23 D   6.817     -3.5515E-03   70.54       20.62       131.2       73.77          UL-RL  1.2003E+05   334.6       13.46
1.000       1.000       34.09       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  24 D   7.305     -3.4262E-03   73.60       22.13       133.2       74.89          UL-RL  1.2003E+05   334.4       14.40
1.000       1.000       36.53       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  25 D   7.794     -3.3012E-03   76.67       23.63       135.2       76.00          UL-RL  1.2003E+05   334.2       15.34
1.000       1.000       38.97       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  26 D   8.282     -3.1768E-03   79.73       25.13       137.1       77.12          UL-RL  1.2003E+05   334.0       16.28
1.000       1.000       41.41       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  27 D   8.770     -3.0530E-03   82.79       26.64       139.1       78.24          UL-RL  1.2003E+05   333.8       17.22
1.000       1.000       43.85       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  28 D   9.259     -2.9300E-03   85.85       28.14       141.1       79.35          UL-RL  1.2003E+05   333.6       18.15
1.000       1.000       46.29       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  29 D   9.747     -2.8079E-03   88.91       29.64       143.1       80.47          UL-RL  1.2003E+05   333.4       19.09
1.000       1.000       48.73       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  30 D   10.24     -2.6869E-03   91.98       31.15       145.1       81.59          UL-RL  1.2003E+05   333.2       20.03
1.000       1.000       51.18       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  31 D   10.72     -2.5672E-03   95.04       32.65       147.1       82.70          UL-RL  1.2003E+05   333.0       20.97
1.000       1.000       53.62       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  32 D   11.21     -2.4491E-03   98.10       34.15       149.1       83.82          UL-RL  1.2003E+05   332.8       21.91
1.000       1.000       56.06       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  33 D   11.70     -2.3326E-03   101.2       35.66       151.1       84.93          UL-RL  1.2003E+05   332.6       22.85
1.000       1.000       58.50       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  34 D   12.19     -2.2181E-03   104.2       37.16       153.1       86.05          UL-RL  1.2003E+05   332.4       23.78
1.000       1.000       60.94       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  35 D   12.68     -2.1059E-03   107.3       38.66       155.1       87.17          UL-RL  1.2003E+05   332.2       24.72
1.000       1.000       63.38       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  36 D   13.17     -1.9960E-03   110.3       40.17       157.1       88.28          UL-RL  1.2003E+05   332.0       25.66
1.000       1.000       65.83       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  37 D   13.65     -1.8887E-03   113.4       41.67       159.0       89.40          UL-RL  1.2003E+05   331.8       26.60
1.000       1.000       68.27       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  38 D   14.14     -1.7842E-03   116.5       43.17       161.0       90.52          UL-RL  1.2003E+05   331.6       27.54
1.000       1.000       70.71       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  39 D   14.63     -1.6827E-03   119.5       44.68       163.0       91.63          UL-RL  1.2003E+05   331.4       28.47
1.000       1.000       73.15       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  40 D   15.12     -1.5845E-03   122.6       46.18       165.0       92.75          UL-RL  1.2003E+05   331.2       29.41
1.000       1.000       75.59       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  41 D   6.071     -1.4895E-03   125.7      2.6539E-14   167.0       83.51          UL-RL  6.1194E+04   331.0       30.35
1.000       1.000       30.35       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  42 D   6.449     -1.3981E-03   128.3       0.000       169.5       84.76        ACTIVE   0.000       330.8       32.25
1.000       1.000       32.25       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  43 D   6.828     -1.3103E-03   130.9       0.000       172.0       86.01          ACTIVE   0.000       330.6       34.14
1.000       1.000       34.14       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  44 D   7.462     -1.2262E-03   133.5       1.274       174.5       87.26          UL-RL  6.1194E+04   330.4       36.03
1.000       1.000       37.31       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  45 D   9.082     -1.1458E-03   136.1       7.483       177.0       88.51          UL-RL  6.1194E+04   330.2       37.93
1.000       1.000       45.41       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  46 D   10.66     -1.0692E-03   138.7       13.46       179.5       89.76          UL-RL  6.1194E+04   330.0       39.82
1.000       1.000       53.28       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  47 D   12.19     -9.9631E-04   141.3       19.21       182.0       91.01          UL-RL  6.1194E+04   329.8       41.72
1.000       1.000       60.93       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  48 D   13.67     -9.2716E-04   143.9       24.73       184.5       92.26          UL-RL  6.1194E+04   329.6       43.61
1.000       1.000       68.34       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  49 D   15.11     -8.6165E-04   146.5       30.03       187.0       93.51          UL-RL  6.1194E+04   329.4       45.50
1.000       1.000       75.54       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  50 D   16.50     -7.9968E-04   149.1       35.11       189.5       94.76          UL-RL  6.1194E+04   329.2       47.40
1.000       1.000       82.51       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  51 D   17.86     -7.4114E-04   151.7       39.98       192.0       96.01          UL-RL  6.1194E+04   329.0       49.29
1.000       1.000       89.28       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  52 D   19.17     -6.8592E-04   154.3       44.65       194.5       97.26          UL-RL  6.1194E+04   328.8       51.19
1.000       1.000       95.84       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
```

53 D	20.44	-6.3386E-04	156.9	49.13	197.0	98.51	UL-RL	6.1194E+04	328.6	53.08
1.000	1.000	102.2	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
54 D	21.68	-5.8482E-04	159.5	53.41	199.5	99.76	UL-RL	6.1194E+04	328.4	54.97
1.000	1.000	108.4	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
55 D	22.88	-5.3861E-04	162.1	57.53	202.0	101.0	UL-RL	6.1194E+04	328.2	56.87
1.000	1.000	114.4	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
56 D	24.05	-4.9511E-04	164.8	61.48	204.5	102.3	UL-RL	6.1194E+04	328.0	58.76
1.000	1.000	120.2	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
57 D	25.19	-4.5412E-04	167.4	65.27	207.0	103.5	UL-RL	6.1194E+04	327.8	60.66
1.000	1.000	125.9	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
58 D	26.29	-4.1546E-04	170.0	68.92	209.5	104.8	UL-RL	6.1194E+04	327.6	62.55
1.000	1.000	131.5	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
59 D	27.38	-3.7896E-04	172.6	72.44	212.0	106.0	UL-RL	6.1194E+04	327.4	64.44
1.000	1.000	136.9	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
60 D	28.44	-3.4442E-04	175.2	75.84	214.5	107.3	UL-RL	6.1194E+04	327.2	66.34
1.000	1.000	142.2	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
61 D	29.47	-3.1167E-04	177.8	79.13	217.0	108.5	UL-RL	6.1194E+04	327.0	68.23
1.000	1.000	147.4	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
62 D	30.49	-2.8054E-04	180.4	82.32	219.5	109.8	UL-RL	6.1194E+04	326.8	70.12
1.000	1.000	152.4	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
63 D	31.49	-2.5082E-04	183.0	85.43	222.0	111.0	UL-RL	6.1194E+04	326.6	72.02
1.000	1.000	157.4	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
64 D	32.47	-2.2239E-04	185.6	88.45	224.5	112.2	UL-RL	6.1194E+04	326.4	73.91
1.000	1.000	162.4	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
65 D	33.44	-1.9506E-04	188.2	91.41	227.0	113.5	UL-RL	6.1194E+04	326.2	75.81
1.000	1.000	167.2	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
66 D	34.40	-1.6868E-04	190.8	94.31	229.5	114.7	UL-RL	6.1194E+04	326.0	77.70
1.000	1.000	172.0	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
67 D	35.35	-1.4310E-04	193.4	97.16	232.0	116.0	UL-RL	6.1194E+04	325.8	79.59
1.000	1.000	176.8	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
68 D	36.29	-1.1818E-04	196.0	99.97	234.5	117.2	UL-RL	6.1194E+04	325.6	81.49
1.000	1.000	181.5	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
69 D	37.22	-9.3792E-05	198.6	102.7	237.0	118.5	UL-RL	6.1194E+04	325.4	83.38
1.000	1.000	186.1	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
70 D	38.15	-6.9821E-05	201.2	105.5	239.5	119.7	UL-RL	6.1194E+04	325.2	85.28
1.000	1.000	190.8	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
71 D	39.08	-4.6150E-05	203.8	108.2	242.0	121.0	UL-RL	6.1194E+04	325.0	87.17
1.000	1.000	195.4	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
72 D	40.00	-2.2713E-05	206.5	110.9	244.5	122.2	UL-RL	6.1194E+04	324.8	89.06
1.000	1.000	200.0	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
73 D	40.92	5.7891E-07	209.1	113.7	247.0	123.5	UL-RL	6.1194E+04	324.6	90.96
1.000	1.000	204.6	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
74 D	41.84	2.3786E-05	211.7	116.4	249.5	124.7	UL-RL	6.1194E+04	324.4	92.85
1.000	1.000	209.2	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
75 D	42.76	4.6953E-05	214.3	119.1	252.0	126.0	UL-RL	6.1194E+04	324.2	94.75
1.000	1.000	213.8	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
76 D	21.84	7.0003E-05	216.9	121.7	254.5	127.2	UL-RL	6.1194E+04	324.0	96.63
1.000	1.000	218.4	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						

```
+-------------------------------------------------------------------------------------------------------------------------------+
|                  PARATIEPLUS(TM)   NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*                      |
|                                                                                                                               |
|                                              ParatiePlus                                                                      |
|                                  Exe Time :28 January 2022   16:22:49                                                         |
+-------------------------------------------------------------------------------------------------------------------------------+
New Project


S T R E S S   R E S U L T S   F O R   G R O U P   N O.   2

0_R                                                    :
ELEMENT TYPE    5 NO.OF ELEMENTS. IN THIS GROUP   76
C U R R E N T   T I M E   I S      4.0000 SUBINCREMENT 00001/00001

 HARDENING 2D SOIL ELEMENT

 ****** TOTAL STRESS FORMULATION *****

  EL *   FORCE     DISPL-Y  VERTICAL-P  HORIZON.-P     MAX-V-P     MAX-H-P          STATE   STIFFNESS Z-LEVEL      PORE       E FAC-
TOR    UFACTOR       Peq          Su_a        Su_p        Cohe_a      Cohe_p     LAYER                              ZFO         QS
QSL          ZD          ZPL          Kz
 ------------------------------------------------------------------------------------------------------------------------------
------------------------------------------------------------------------------------------------------------------------------
-----------------------------------------------
   1     0.000         --          --          --          --          --         REMOVED     --        339.0       0.000
1.000       1.000       0.000       0.000       0.000       0.000       0.000     not available
   2     0.000         --          --          --          --          --         REMOVED     --        338.8       0.000
1.000       1.000       0.000       0.000       0.000       0.000       0.000     not available
   3     0.000         --          --          --          --          --         REMOVED     --        338.6       0.000
1.000       1.000       0.000       0.000       0.000       0.000       0.000     not available
   4     0.000         --          --          --          --          --         REMOVED     --        338.4       0.000
1.000       1.000       0.000       0.000       0.000       0.000       0.000     not available
   5     0.000         --          --          --          --          --         REMOVED     --        338.2       0.000
1.000       1.000       0.000       0.000       0.000       0.000       0.000     not available
   6     0.000         --          --          --          --          --         REMOVED     --        338.0       0.000
1.000       1.000       0.000       0.000       0.000       0.000       0.000     not available
   7     0.000         --          --          --          --          --         REMOVED     --        337.8       0.000
1.000       1.000       0.000       0.000       0.000       0.000       0.000     not available
   8     0.000         --          --          --          --          --         REMOVED     --        337.6       0.000
1.000       1.000       0.000       0.000       0.000       0.000       0.000     not available
   9     0.000         --          --          --          --          --         REMOVED     --        337.4       0.000
1.000       1.000       0.000       0.000       0.000       0.000       0.000     not available
  10     0.000         --          --          --          --          --         REMOVED     --        337.2       0.000
1.000       1.000       0.000       0.000       0.000       0.000       0.000     not available
  11     0.000         --          --          --          --          --         REMOVED     --        337.0       0.000
1.000       1.000       0.000       0.000       0.000       0.000       0.000     not available
  12     0.000         --          --          --          --          --         REMOVED     --        336.8       0.000
1.000       1.000       0.000       0.000       0.000       0.000       0.000     not available
  13     0.000         --          --          --          --          --         REMOVED     --        336.6       0.000
1.000       1.000       0.000       0.000       0.000       0.000       0.000     not available
  14     0.000         --          --          --          --          --         REMOVED     --        336.4       0.000
1.000       1.000       0.000       0.000       0.000       0.000       0.000     not available
  15     0.000         --          --          --          --          --         REMOVED     --        336.2       0.000
1.000       1.000       0.000       0.000       0.000       0.000       0.000     not available
  16     0.000         --          --          --          --          --         REMOVED     --        336.0       0.000
1.000       1.000       0.000       0.000       0.000       0.000       0.000     not available
  17     0.000         --          --          --          --          --         REMOVED     --        335.8       0.000
1.000       1.000       0.000       0.000       0.000       0.000       0.000     not available
  18     0.000         --          --          --          --          --         REMOVED     --        335.6       0.000
1.000       1.000       0.000       0.000       0.000       0.000       0.000     not available
  19     0.000         --          --          --          --          --         REMOVED     --        335.4       0.000
1.000       1.000       0.000       0.000       0.000       0.000       0.000     not available
  20     0.000         --          --          --          --          --         REMOVED     --        335.2       0.000
1.000       1.000       0.000       0.000       0.000       0.000       0.000     not available
  21     0.000         --          --          --          --          --         REMOVED     --        335.0       0.000
1.000       1.000       0.000       0.000       0.000       0.000       0.000     not available
  22     0.000         --          --          --          --          --         REMOVED     --        334.8       0.000
1.000       1.000       0.000       0.000       0.000       0.000       0.000     not available
  23     0.000         --          --          --          --          --         REMOVED     --        334.6       0.000
1.000       1.000       0.000       0.000       0.000       0.000       0.000     not available
  24     0.000         --          --          --          --          --         REMOVED     --        334.4       0.000
1.000       1.000       0.000       0.000       0.000       0.000       0.000     not available
  25     0.000         --          --          --          --          --         REMOVED     --        334.2       0.000
1.000       1.000       0.000       0.000       0.000       0.000       0.000     not available
  26     0.000         --          --          --          --          --         REMOVED     --        334.0       0.000
1.000       1.000       0.000       0.000       0.000       0.000       0.000     not available
  27     0.000         --          --          --          --          --         REMOVED     --        333.8       0.000
1.000       1.000       0.000       0.000       0.000       0.000       0.000     not available
  28     0.000         --          --          --          --          --         REMOVED     --        333.6       0.000
1.000       1.000       0.000       0.000       0.000       0.000       0.000     not available
  29     0.000         --          --          --          --          --         REMOVED     --        333.4       0.000
1.000       1.000       0.000       0.000       0.000       0.000       0.000     not available
  30     0.000         --          --          --          --          --         REMOVED     --        333.2       0.000
1.000       1.000       0.000       0.000       0.000       0.000       0.000     not available
  31 D   7.385      2.5672E-03  8.0000E-03   36.93       146.9       82.53          UL-RL  9.3730E+04   333.0       0.000
1.000       1.000       36.93       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  32 D   10.11      2.4491E-03   4.008       50.54       148.9       83.66          UL-RL  9.3730E+04   332.8       0.000
```

```
1.000       1.000       50.54       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  33 D   12.83      2.3326E-03   8.008       64.16       150.9       84.79          UL-RL  9.3730E+04   332.6       0.000
1.000       1.000       64.16       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  34 D   14.84      2.2181E-03   10.52       72.71       152.9       85.92          UL-RL  9.3730E+04   332.4       1.488
1.000       1.000       74.20       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  35 D   16.09      2.1059E-03   11.46       75.90       154.9       87.05          UL-RL  9.3730E+04   332.2       4.550
1.000       1.000       80.45       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  36 D   17.34      1.9960E-03   12.40       79.10       156.9       88.18          UL-RL  9.3730E+04   332.0       7.612
1.000       1.000       86.71       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  37 D   18.59      1.8887E-03   13.33       82.29       158.9       89.31          UL-RL  9.3730E+04   331.8       10.67
1.000       1.000       92.96       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  38 D   19.84      1.7842E-03   14.27       85.48       160.9       90.44          UL-RL  9.3730E+04   331.6       13.74
1.000       1.000       99.22       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  39 D   21.10      1.6827E-03   15.21       88.68       162.9       91.56          UL-RL  9.3730E+04   331.4       16.80
1.000       1.000       105.5       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  40 D   22.35      1.5845E-03   16.15       91.87       164.9       92.69          UL-RL  9.3730E+04   331.2       19.86
1.000       1.000       111.7       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  41 D   22.06      1.4895E-03   17.09       87.37       166.9       87.37          UL-RL  4.5960E+04   331.0       22.92
1.000       1.000       110.3       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  42 D   22.50      1.3981E-03   19.48       87.47       169.4       87.47           V-C  1.5320E+04   330.8       25.03
1.000       1.000       112.5       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  43 D   22.95      1.3103E-03   21.88       87.61       171.9       87.61           V-C  1.5320E+04   330.6       27.13
1.000       1.000       114.7       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  44 D   23.40      1.2262E-03   24.27       87.78       174.4       87.78           V-C  1.5320E+04   330.4       29.24
1.000       1.000       117.0       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  45 D   23.67      1.1458E-03   26.67       86.99       176.9       88.47          UL-RL  4.5960E+04   330.2       31.35
1.000       1.000       118.3       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  46 D   23.74      1.0692E-03   29.06       85.24       179.5       89.73          UL-RL  4.5960E+04   330.0       33.45
1.000       1.000       118.7       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  47 D   23.83      9.9631E-04   31.45       83.61       182.0       90.98          UL-RL  4.5960E+04   329.8       35.56
1.000       1.000       119.2       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  48 D   23.95      9.2716E-04   33.85       82.11       184.5       92.23          UL-RL  4.5960E+04   329.6       37.66
1.000       1.000       119.8       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  49 D   24.10      8.6165E-04   36.24       80.75       187.0       93.48          UL-RL  4.5960E+04   329.4       39.77
1.000       1.000       120.5       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  50 D   24.28      7.9968E-04   38.64       79.52       189.5       94.73          UL-RL  4.5960E+04   329.2       41.88
1.000       1.000       121.4       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  51 D   24.48      7.4114E-04   41.03       78.43       192.0       95.98          UL-RL  4.5960E+04   329.0       43.98
1.000       1.000       122.4       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  52 D   24.71      6.8592E-04   43.42       77.46       194.5       97.23          UL-RL  4.5960E+04   328.8       46.09
1.000       1.000       123.6       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  53 D   24.96      6.3386E-04   45.82       76.62       197.0       98.48          UL-RL  4.5960E+04   328.6       48.20
1.000       1.000       124.8       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  54 D   25.24      5.8482E-04   48.21       75.90       199.5       99.73          UL-RL  4.5960E+04   328.4       50.30
1.000       1.000       126.2       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  55 D   25.54      5.3861E-04   50.61       75.29       202.0       101.0          UL-RL  4.5960E+04   328.2       52.41
1.000       1.000       127.7       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  56 D   25.86      4.9511E-04   53.00       74.80       204.5       102.2          UL-RL  4.5960E+04   328.0       54.52
1.000       1.000       129.3       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  57 D   26.20      4.5412E-04   55.39       74.40       207.0       103.5          UL-RL  4.5960E+04   327.8       56.62
1.000       1.000       131.0       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  58 D   26.57      4.1546E-04   57.79       74.10       209.5       104.7          UL-RL  4.5960E+04   327.6       58.73
1.000       1.000       132.8       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  59 D   26.94      3.7896E-04   60.18       73.88       212.0       106.0          UL-RL  4.5960E+04   327.4       60.83
1.000       1.000       134.7       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  60 D   27.34      3.4442E-04   62.58       73.75       214.5       107.2          UL-RL  4.5960E+04   327.2       62.94
1.000       1.000       136.7       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  61 D   27.75      3.1167E-04   64.97       73.68       217.0       108.5          UL-RL  4.5960E+04   327.0       65.05
1.000       1.000       138.7       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  62 D   28.17      2.8054E-04   67.36       73.68       219.5       109.7          UL-RL  4.5960E+04   326.8       67.15
1.000       1.000       140.8       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
```

63 D	28.60	2.5082E-04	69.76	73.74	222.0	111.0	UL-RL	4.5960E+04	326.6	69.26
1.000	1.000	143.0	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
64 D	29.04	2.2239E-04	72.15	73.85	224.5	112.2	UL-RL	4.5960E+04	326.4	71.37
1.000	1.000	145.2	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
65 D	29.49	1.9506E-04	74.55	74.00	227.0	113.5	UL-RL	4.5960E+04	326.2	73.47
1.000	1.000	147.5	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
66 D	29.95	1.6868E-04	76.94	74.19	229.5	114.7	UL-RL	4.5960E+04	326.0	75.58
1.000	1.000	149.8	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
67 D	30.42	1.4310E-04	79.33	74.40	232.0	116.0	UL-RL	4.5960E+04	325.8	77.68
1.000	1.000	152.1	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
68 D	30.89	1.1818E-04	81.73	74.64	234.5	117.2	UL-RL	4.5960E+04	325.6	79.79
1.000	1.000	154.4	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
69 D	31.36	9.3792E-05	84.12	74.90	237.0	118.5	UL-RL	4.5960E+04	325.4	81.90
1.000	1.000	156.8	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
70 D	31.84	6.9821E-05	86.52	75.18	239.5	119.7	UL-RL	4.5960E+04	325.2	84.00
1.000	1.000	159.2	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
71 D	32.31	4.6150E-05	88.91	75.46	242.0	121.0	UL-RL	4.5960E+04	325.0	86.11
1.000	1.000	161.6	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
72 D	32.79	2.2713E-05	91.30	75.75	244.5	122.2	UL-RL	4.5960E+04	324.8	88.22
1.000	1.000	164.0	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
73 D	33.27	-5.7891E-07	93.70	76.03	247.0	123.5	UL-RL	4.5960E+04	324.6	90.32
1.000	1.000	166.4	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
74 D	33.75	-2.3786E-05	96.09	76.32	249.5	124.7	UL-RL	4.5960E+04	324.4	92.43
1.000	1.000	168.8	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
75 D	34.23	-4.6953E-05	98.49	76.61	252.0	126.0	UL-RL	4.5960E+04	324.2	94.53
1.000	1.000	171.1	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
76 D	17.35	-7.0003E-05	100.9	76.89	254.5	127.2	UL-RL	4.5960E+04	324.0	96.63
1.000	1.000	173.5	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						

New Project

S T R E S S   R E S U L T S   F O R   G R O U P   N O.   3

Pali1500_253215   :
ELEMENT TYPE   2 NO.OF ELEMENTS. IN THIS GROUP   75
C U R R E N T   T I M E   I S   4.0000 SUBINCREMENT 00001/00001

 WALL2D ELEMENT

EL	TA	TB	MA	MB
1	-4.62192E-10	4.62192E-10	-4.57650E-11	9.61988E-10
2	-7.98923E-10	7.98923E-10	-1.08827E-09	9.03679E-10
3	-1.03383E-09	1.03383E-09	-1.08937E-09	1.59246E-09
4	1.21712E-09	-1.21712E-09	-1.57444E-09	1.24014E-09
5	-2.30667E-09	2.30667E-09	-1.34950E-09	1.67324E-09
6	6.52542E-10	-6.52542E-10	-1.84211E-09	2.45553E-09
7	1.99392E-10	-1.99392E-10	-2.37188E-09	2.33114E-09
8	-1.03512E-09	1.03512E-09	-2.41599E-09	1.33981E-09
9	6.57623E-02	-6.57623E-02	-1.21897E-09	1.31525E-02
10	0.31915	-0.31915	-1.31525E-02	7.69823E-02
11	0.79568	-0.79568	-7.69823E-02	0.23612
12	1.6441	-1.6441	-0.23612	0.56494
13	2.8645	-2.8645	-0.56494	1.1381
14	4.4570	-4.4570	-1.1381	2.0295
15	6.4214	-6.4214	-2.0295	3.3138
16	8.7578	-8.7578	-3.3138	5.0654
17	11.466	-11.466	-5.0654	7.3586
18	14.546	-14.546	-7.3586	10.268
19	17.998	-17.998	-10.268	13.868
20	21.823	-21.823	-13.868	18.232
21	27.663	-27.663	-18.232	23.767
22	33.992	-33.992	-23.767	30.566
23	40.809	-40.809	-30.566	38.727
24	48.114	-48.114	-38.727	48.350
25	55.908	-55.908	-48.350	59.532
26	64.190	-64.190	-59.532	72.370
27	72.960	-72.960	-72.370	86.962
28	82.219	-82.219	-86.962	103.41
29	91.966	-91.966	-103.41	121.81
30	102.20	-102.20	-121.81	142.25
31	105.54	-105.54	-142.25	163.36
32	106.64	-106.64	-163.36	184.68
33	105.51	-105.51	-184.68	205.79
34	102.86	-102.86	-205.79	226.36
35	99.447	-99.447	-226.36	246.25
36	95.271	-95.271	-246.25	265.30
37	90.331	-90.331	-265.30	283.38
38	84.629	-84.629	-283.38	300.30
39	78.164	-78.164	-300.30	315.94
40	70.936	-70.936	-315.94	330.12
41	54.950	-54.950	-330.12	341.11
42	38.899	-38.899	-341.11	348.89
43	22.779	-22.779	-348.89	353.45
44	6.8380	-6.8380	-353.45	354.82
45	-7.7478	7.7478	-354.82	353.27
46	-20.829	20.829	-353.27	349.10
47	-32.475	32.475	-349.10	342.60
48	-42.761	42.761	-342.60	334.05
49	-51.758	51.758	-334.05	323.70
50	-59.535	59.535	-323.70	311.79
51	-66.162	66.162	-311.79	298.56
52	-71.704	71.704	-298.56	284.22
53	-76.227	76.227	-284.22	268.98
54	-79.790	79.790	-268.98	253.01
55	-82.451	82.451	-253.01	236.52
56	-84.265	84.265	-236.52	219.67
57	-85.284	85.284	-219.67	202.61
58	-85.554	85.554	-202.61	185.50
59	-85.120	85.120	-185.50	168.47
60	-84.021	84.021	-168.47	151.67
61	-82.294	82.294	-151.67	135.21
62	-79.971	79.971	-135.21	119.21
63	-77.082	77.082	-119.21	103.79
64	-73.651	73.651	-103.79	89.063
65	-69.702	69.702	-89.063	75.123
66	-65.253	65.253	-75.123	62.072
67	-60.320	60.320	-62.072	50.008
68	-54.916	54.916	-50.008	39.025
69	-49.051	49.051	-39.025	29.214
70	-42.733	42.733	-29.214	20.663

71	-35.968	35.968	-20.663	13.470
72	-28.759	28.759	-13.470	7.7180
73	-21.108	21.108	-7.7180	3.4964
74	-13.017	13.017	-3.4964	0.89302
75	-4.4853	4.4853	-0.89302	5.59254E-13

```
+-------------------------------------------------------------------------------------------------------------------------+
|                  PARATIEPLUS(TM)   NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*              |
|                                                                                                                         |
|                                                ParatiePlus                                                              |
|                                Exe Time :28 January 2022   16:22:49                                                     |
+-------------------------------------------------------------------------------------------------------------------------+


     F I N A L    I N C R E M E N T A L    A N A L Y S I S

                    S U M M A R Y

     STEP                                  NO. OF ITERATIONS

        1           CONVERGENCE :YES                      2
        2           CONVERGENCE :YES                      2
        3           CONVERGENCE :YES                      6
        4           CONVERGENCE :YES                      2


 END OF PROCESS FOR PROBLEM
New Project
NONLINEAR SOLUTION CPU TIME ....    0.05 [sec]
DATABASE  CREATION CPU TIME.....    0.17 [sec]
```

8.7. Design Assumption : A2+M2+R1 - File di Paratie - File di input (.d)

```
* PARATIE ANALYSIS FOR DESIGN SECTION:Base Design Section USING ASSUMPTION: A2+M2+R1
 * Time:venerdì 28 gennaio 2022 16:22:49
 * 1: Defining general settings
 UNIT  m kN
 TITLE New Project
 DELTA 0.2
 option param itemax 80
 option control contact lagrange

 option control hinges 0 0.0001 0.001

 * 2: Defining wall(s)
 WALL LeftWall_36 10 324 339 1

 * 3: Defining surfaces for wall(s)
 SOIL 0_L LeftWall_36 324 339 1 0
 SOIL 0_R LeftWall_36 324 339 2 180

 * 4: Defining soil layers
 *
 * Soil Profile (Aate_364268_2050_L_0)
 *
 LDATA Aate_364268_2050_L_0 343 LeftWall_36
 ATREST 0.5 0.5 1
 WEIGHT 19 9 10
 PERMEABILITY 1E-05
 RESISTANCE 10 31 0 0 0
 TZDATA  LINEAR 10000 0 25 0.5 0
 KSCALE  0 0
 YOUNG 40000 1.2E+05
 ENDL
 *
 * Soil Profile (Salt_1270_202756_L_0)
 *
 LDATA Salt_1270_202756_L_0 335 LeftWall_36
 ATREST 0.562 0.5 1
 WEIGHT 20 10 10
 PERMEABILITY 1E-05
 RESISTANCE 10 26 0 0 0
 TZDATA  LINEAR 10000 0 25 0.5 0
 KSCALE  0 0
 YOUNG 2E+05 6E+05
 ENDL
 *
 * Soil Profile (Pa_244788_244789_L_0)
 *
 LDATA Pa_244788_244789_L_0 331 LeftWall_36
 ATREST 0.5 0.5 1
 WEIGHT 22.5 12.5 10
 PERMEABILITY 0.0001
 RESISTANCE 50 27 0 0 0
 TZDATA  LINEAR 20000 0 30 0.5 0
 KSCALE  0 0
 YOUNG 1E+05 3E+05
 ENDL

 * 5: Defining structural materials
 * Steel material: 114 Name=Fe360 E=206000200 kPa
 MATERIAL Fe360_114 2.06E+08
 * Concrete material: 112 Name=C32/40 E=33345800 kPa
 MATERIAL C3240_112 3.3346E+07

 * 6: Defining structural elements
 * 6.1: Beams and combined Wall Elements
 ** rev 2021 and later
 BEAM Pali1500_253215 LeftWall_36 324 339 C3240_112 1.1067 0.80325 0.11296 20.081 00 00 0


 * 6.2: Supports




 * 6.3: Strips

 * 7: Defining Steps
 STEP AnteOperam_1747
 CHANGE Aate_364268_2050_L_0 U-FRICT=25.673 LeftWall_36
 CHANGE Aate_364268_2050_L_0 D-FRICT=25.673 LeftWall_36
 CHANGE Aate_364268_2050_L_0 U-KA=0.373 LeftWall_36
 CHANGE Aate_364268_2050_L_0 U-KP=2.833 LeftWall_36
 CHANGE Aate_364268_2050_L_0 D-KA=0.423 LeftWall_36
 CHANGE Aate_364268_2050_L_0 D-KP=3.343 LeftWall_36
 CHANGE Salt_1270_202756_L_0 U-FRICT=21.315 LeftWall_36
 CHANGE Salt_1270_202756_L_0 D-FRICT=21.315 LeftWall_36
```

```
CHANGE Salt_1270_202756_L_0 U-KA=0.439 LeftWall_36
CHANGE Salt_1270_202756_L_0 U-KP=2.255 LeftWall_36
CHANGE Salt_1270_202756_L_0 D-KA=0.503 LeftWall_36
CHANGE Salt_1270_202756_L_0 D-KP=2.649 LeftWall_36
CHANGE Pa_244788_244789_L_0 U-FRICT=22.177 LeftWall_36
CHANGE Pa_244788_244789_L_0 D-FRICT=22.177 LeftWall_36
CHANGE Pa_244788_244789_L_0 U-KA=0.426 LeftWall_36
CHANGE Pa_244788_244789_L_0 U-KP=2.334 LeftWall_36
CHANGE Pa_244788_244789_L_0 D-KA=0.486 LeftWall_36
CHANGE Pa_244788_244789_L_0 D-KP=2.77 LeftWall_36
CHANGE Aate_364268_2050_L_0 U-COHE=8 LeftWall_36
CHANGE Aate_364268_2050_L_0 U-ADHES=0 LeftWall_36
CHANGE Aate_364268_2050_L_0 D-COHE=8 LeftWall_36
CHANGE Aate_364268_2050_L_0 D-ADHES=0 LeftWall_36
CHANGE Salt_1270_202756_L_0 U-COHE=8 LeftWall_36
CHANGE Salt_1270_202756_L_0 U-ADHES=0 LeftWall_36
CHANGE Salt_1270_202756_L_0 D-COHE=8 LeftWall_36
CHANGE Salt_1270_202756_L_0 D-ADHES=0 LeftWall_36
CHANGE Pa_244788_244789_L_0 U-COHE=40 LeftWall_36
CHANGE Pa_244788_244789_L_0 U-ADHES=0 LeftWall_36
CHANGE Pa_244788_244789_L_0 D-COHE=40 LeftWall_36
CHANGE Pa_244788_244789_L_0 D-ADHES=0 LeftWall_36
SETWALL LeftWall_36
GEOM 343 343
SURCHARGE 0 0 0 0
WATER 337.47 -0.066047 324 0 0
ENDSTEP

STEP Pre-scavo+Pali_244791
CHANGE Aate_364268_2050_L_0 U-KA=0.399 LeftWall_36
CHANGE Aate_364268_2050_L_0 U-KP=3.343 LeftWall_36
CHANGE Aate_364268_2050_L_0 D-KA=0.395 LeftWall_36
CHANGE Salt_1270_202756_L_0 U-KA=0.613 LeftWall_36
CHANGE Salt_1270_202756_L_0 U-KP=2.649 LeftWall_36
CHANGE Salt_1270_202756_L_0 D-KA=0.467 LeftWall_36
CHANGE Pa_244788_244789_L_0 U-KA=0.611 LeftWall_36
CHANGE Pa_244788_244789_L_0 U-KP=2.77 LeftWall_36
CHANGE Pa_244788_244789_L_0 D-KA=0.452 LeftWall_36
SETWALL LeftWall_36
GEOM 339 339
SURCHARGE 0 0 0 0
WATER 337.47 -0.039326 324 0 0
ADD Pali1500_253215
ENDSTEP

STEP Scavofinale_252903
SETWALL LeftWall_36
GEOM 339 333
SURCHARGE 0 0 0 0
WATER 337.47 4.9732 324 0 0
ENDSTEP

STEP Sisma_284297
SETWALL LeftWall_36
GEOM 339 333
SURCHARGE 0 0 0 0
WATER 337.47 4.9732 324 0 0
ENDSTEP
```

8.8. Design Assumption : A2+M2+R1 - File di Paratie - File di output (.out)

```
+-------------------------------------------------------------------------------------------------------------------------+
|                   PARATIEPLUS(TM)   NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*              |
|                                                                                                                         |
|                                                ParatiePlus                                                              |
|                                  Exe Time :28 January 2022   16:22:49                                                   |
+-------------------------------------------------------------------------------------------------------------------------+

                  ********************************************************
                  *                                                      *
                  *  PARATIE PLUS Non-Linear Spring Engine               *
                  *                                                      *
                  *          AN ELASTOPLASTIC FINITE ELEMENT PROGRAM     *
                  *          FOR FLEXIBLE EARTH-RETAINING STRUCTURES     *
                  *                                                      *
                  *          Written by CEAS s.r.l. (ITALY)              *
                  *          with the scientific supervision of          *
                  *          Roberto Nova - full professor SOIL MECHANICS*
                  *          at Politecnico di Milano (ITALY)            *
                  *                                                      *
                  ********************************************************
                  *                                                      *
                  *  RELEASE   2022.0.0   *Build date:Sep 13, 2021*      *
                  *                                                      *
                  *                                                      *
                  *  CEAS S.R.L  VIALE   GIUSTINIANO 10                  *
                  *              20129   M I L A N O  (ITALIA)           *
```

```
                *  TEL.        +39 02 2020221                          *
                *                                                      *
                *  email       bruno.becci@ceas.it                     *
                *  Web Page    www.ceas.it     www.paratieplus.com     *
                ********************************************************


 JOB : ParatiePlus
 STARTING
ACCEPTED   &lt;FILE,GENW                                                                  &gt;
ACCEPTED   &lt;FILE,PLOTTER,BINARY                                                        &gt;
ACCEPTED   &lt;SOLVE TOTAL_STRESS                                                         &gt;
ACCEPTED   &lt;PARAM ITEMAX 80                                                            &gt;
ACCEPTED   &lt;CONTROL CONTACT LAGRANGE                                                   &gt;
ACCEPTED   &lt;CONTROL HINGES 0 0.0001 0.001                                              &gt;


                ********************************************************
                *                                                      *
                *  WARNING : PORE PRESSURES ARE AUTOMATICALLY COMPUTED  *
                *    BY THE PROGRAM.                                   *
                ********************************************************

PRELIMINARY OPERATIONS CPU TIME     0.00 [sec]
```

```
+-----------------------------------------------------------------------------------------------------------------------+
|                   PARATIEPLUS(TM)   NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*             |
|                                                                                                                       |
|                                                ParatiePlus                                                            |
|                                 Exe Time :28 January 2022   16:22:49                                                  |
+-----------------------------------------------------------------------------------------------------------------------+


INPUT FILE HAS BEEN GENERATED BY WALGEN PROGRAM


New Project


NO. OF NODAL POINTS (NUMNP) ...................   76
NO. OF COORDINATES  (NCOORD)...................    2
NO. OF NODE DOFS    (NDOF).....................    2
NO. OF EQUATIONS    (NEQ)...................... 152
NO. OF CONSTRAINTS CARDS (NVINC)...............    0
NO. OF ELEMENT GROUPS (NEG)....................    3
NO. OF SOLUTION STEPS (NSTE)...................    4
NO. OF ELEMENT SETS ATTACHED TO SLAVE NODES ...    0
NO. OF RECORD FROM WALGEN ..................... 103
NO. OF LONG NAMES (LASTNAME) ..................   17
LENGTH UNIT CHOICE ............................    3 (M   )
FORCE  UNIT CHOICE ............................    3 (KN  )
MAX PORE PRESSURE TABLE LENGTH.................    1
MAX INELASTIC DISPL. TABLE LENGTH..............    0
NO. OF ELEMENT GROUPS REQUIRING ADD. SLIP DOF .    0


IDOFA (01) =  2  Y-DISPL.F
IDOFA (02) =  4   X-ROT. F

 RELEVANT ITEMS UNITS

 STRESSES                  kPa
 Y-DISPLACEMENTS           m
 ROTATIONS                 RADIANS
 BEAM AND SLAB MOMENTS     kN*m/m
 BEAM SHEAR FORCES         kN/m
 ANCHOR FORCES             kN/m
 AXIAL FORCES IN TRUSSES   kN/m
 AXIAL FORCES SPRINGS      kN/m
 Y-REACTIONS               kN/m
 X-MOMENT REACTIONS        kN*m/m
 ETC.
```

```
+-------------------------------------------------------------------------------------------------------------------------+
|                   PARATIEPLUS(TM)   NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*              |
|                                                                                                                         |
|                                              ParatiePlus                                                                |
|                                  Exe Time :28 January 2022   16:22:49                                                   |
+-------------------------------------------------------------------------------------------------------------------------+
                   P R E P R O C E S S O R     D A T A

                   N O.  O F   C O M M A N D S    103

    1 : UNIT  m kN
    2 : TITLE New Project
    3 : DELTA 0.2
    4 : option param itemax 80
    5 : option control contact lagrange
    6 : option control hinges 0 0.0001 0.001
    7 : WALL LeftWall_36 10 324 339 1
    8 : SOIL 0_L LeftWall_36 324 339 1 0
    9 : SOIL 0_R LeftWall_36 324 339 2 180
   10 : LDATA Aate_364268_2050_L_0 343 LeftWall_36
   11 : ATREST 0.5 0.5 1
   12 : WEIGHT 19 9 10
   13 : PERMEABILITY 1E-05
   14 : RESISTANCE 10 31 0 0 0
   15 : TZDATA  LINEAR 10000 0 25 0.5 0
   16 : KSCALE  0 0
   17 : YOUNG 40000 1.2E+05
   18 : ENDL
   19 : LDATA Salt_1270_202756_L_0 335 LeftWall_36
   20 : ATREST 0.562 0.5 1
   21 : WEIGHT 20 10 10
   22 : PERMEABILITY 1E-05
   23 : RESISTANCE 10 26 0 0 0
   24 : TZDATA  LINEAR 10000 0 25 0.5 0
   25 : KSCALE  0 0
   26 : YOUNG 2E+05 6E+05
   27 : ENDL
   28 : LDATA Pa_244788_244789_L_0 331 LeftWall_36
   29 : ATREST 0.5 0.5 1
   30 : WEIGHT 22.5 12.5 10
   31 : PERMEABILITY 0.0001
   32 : RESISTANCE 50 27 0 0 0
   33 : TZDATA  LINEAR 20000 0 30 0.5 0
   34 : KSCALE  0 0
   35 : YOUNG 1E+05 3E+05
   36 : ENDL
   37 : MATERIAL Fe360_114 2.06E+08
   38 : MATERIAL C3240_112 3.3346E+07
   39 : BEAM Pali1500_253215 LeftWall_36 324 339 C3240_112 1.1067 0.80325 0.11296 20.081 00 00 0
   40 : STEP AnteOperam_1747
   41 : CHANGE Aate_364268_2050_L_0 U-FRICT=25.673 LeftWall_36
   42 : CHANGE Aate_364268_2050_L_0 D-FRICT=25.673 LeftWall_36
   43 : CHANGE Aate_364268_2050_L_0 U-KA=0.373 LeftWall_36
   44 : CHANGE Aate_364268_2050_L_0 U-KP=2.833 LeftWall_36
   45 : CHANGE Aate_364268_2050_L_0 D-KA=0.423 LeftWall_36
   46 : CHANGE Aate_364268_2050_L_0 D-KP=3.343 LeftWall_36
   47 : CHANGE Salt_1270_202756_L_0 U-FRICT=21.315 LeftWall_36
   48 : CHANGE Salt_1270_202756_L_0 D-FRICT=21.315 LeftWall_36
   49 : CHANGE Salt_1270_202756_L_0 U-KA=0.439 LeftWall_36
   50 : CHANGE Salt_1270_202756_L_0 U-KP=2.255 LeftWall_36
   51 : CHANGE Salt_1270_202756_L_0 D-KA=0.503 LeftWall_36
   52 : CHANGE Salt_1270_202756_L_0 D-KP=2.649 LeftWall_36
   53 : CHANGE Pa_244788_244789_L_0 U-FRICT=22.177 LeftWall_36
   54 : CHANGE Pa_244788_244789_L_0 D-FRICT=22.177 LeftWall_36
   55 : CHANGE Pa_244788_244789_L_0 U-KA=0.426 LeftWall_36
   56 : CHANGE Pa_244788_244789_L_0 U-KP=2.334 LeftWall_36
   57 : CHANGE Pa_244788_244789_L_0 D-KA=0.486 LeftWall_36
   58 : CHANGE Pa_244788_244789_L_0 D-KP=2.77 LeftWall_36
   59 : CHANGE Aate_364268_2050_L_0 U-COHE=8 LeftWall_36
   60 : CHANGE Aate_364268_2050_L_0 U-ADHES=0 LeftWall_36
   61 : CHANGE Aate_364268_2050_L_0 D-COHE=8 LeftWall_36
   62 : CHANGE Aate_364268_2050_L_0 D-ADHES=0 LeftWall_36
   63 : CHANGE Salt_1270_202756_L_0 U-COHE=8 LeftWall_36
   64 : CHANGE Salt_1270_202756_L_0 U-ADHES=0 LeftWall_36
   65 : CHANGE Salt_1270_202756_L_0 D-COHE=8 LeftWall_36
   66 : CHANGE Salt_1270_202756_L_0 D-ADHES=0 LeftWall_36
   67 : CHANGE Pa_244788_244789_L_0 U-COHE=40 LeftWall_36
   68 : CHANGE Pa_244788_244789_L_0 U-ADHES=0 LeftWall_36
   69 : CHANGE Pa_244788_244789_L_0 D-COHE=40 LeftWall_36
   70 : CHANGE Pa_244788_244789_L_0 D-ADHES=0 LeftWall_36
   71 : SETWALL LeftWall_36
   72 : GEOM 343 343
   73 : SURCHARGE 0 0 0 0
   74 : WATER 337.47 -0.066047 324 0 0
   75 : ENDSTEP
   76 : STEP Pre-scavo+Pali_244791
   77 : CHANGE Aate_364268_2050_L_0 U-KA=0.399 LeftWall_36
   78 : CHANGE Aate_364268_2050_L_0 U-KP=3.343 LeftWall_36
   79 : CHANGE Aate_364268_2050_L_0 D-KA=0.395 LeftWall_36
```

```
 80 : CHANGE Salt_1270_202756_L_0 U-KA=0.613 LeftWall_36
 81 : CHANGE Salt_1270_202756_L_0 U-KP=2.649 LeftWall_36
 82 : CHANGE Salt_1270_202756_L_0 D-KA=0.467 LeftWall_36
 83 : CHANGE Pa_244788_244789_L_0 U-KA=0.611 LeftWall_36
 84 : CHANGE Pa_244788_244789_L_0 U-KP=2.77 LeftWall_36
 85 : CHANGE Pa_244788_244789_L_0 D-KA=0.452 LeftWall_36
 86 : SETWALL LeftWall_36
 87 : GEOM 339 339
 88 : SURCHARGE 0 0 0 0
 89 : WATER 337.47 -0.039326 324 0 0
 90 : ADD Pali1500_253215
 91 : ENDSTEP
 92 : STEP Scavofinale_252903
 93 : SETWALL LeftWall_36
 94 : GEOM 339 333
 95 : SURCHARGE 0 0 0 0
 96 : WATER 337.47 4.9732 324 0 0
 97 : ENDSTEP
 98 : STEP Sisma_284297
 99 : SETWALL LeftWall_36
100 : GEOM 339 333
101 : SURCHARGE 0 0 0 0
102 : WATER 337.47 4.9732 324 0 0
103 : ENDSTEP
```

N O D A L P O I N T D A T A

NODE	Y-COORD	Z-COORD	/ NODE	Y-COORD	Z-COORD	/ NODE	Y-COORD	Z-COORD	/ NODE	Y-COORD	Z-COORD	/
1	10.000	339.00	/ 2	10.000	338.80	/ 3	10.000	338.60	/ 4	10.000	338.40	/
5	10.000	338.20	/ 6	10.000	338.00	/ 7	10.000	337.80	/ 8	10.000	337.60	/
9	10.000	337.40	/ 10	10.000	337.20	/ 11	10.000	337.00	/ 12	10.000	336.80	/
13	10.000	336.60	/ 14	10.000	336.40	/ 15	10.000	336.20	/ 16	10.000	336.00	/
17	10.000	335.80	/ 18	10.000	335.60	/ 19	10.000	335.40	/ 20	10.000	335.20	/
21	10.000	335.00	/ 22	10.000	334.80	/ 23	10.000	334.60	/ 24	10.000	334.40	/
25	10.000	334.20	/ 26	10.000	334.00	/ 27	10.000	333.80	/ 28	10.000	333.60	/
29	10.000	333.40	/ 30	10.000	333.20	/ 31	10.000	333.00	/ 32	10.000	332.80	/
33	10.000	332.60	/ 34	10.000	332.40	/ 35	10.000	332.20	/ 36	10.000	332.00	/
37	10.000	331.80	/ 38	10.000	331.60	/ 39	10.000	331.40	/ 40	10.000	331.20	/
41	10.000	331.00	/ 42	10.000	330.80	/ 43	10.000	330.60	/ 44	10.000	330.40	/
45	10.000	330.20	/ 46	10.000	330.00	/ 47	10.000	329.80	/ 48	10.000	329.60	/
49	10.000	329.40	/ 50	10.000	329.20	/ 51	10.000	329.00	/ 52	10.000	328.80	/
53	10.000	328.60	/ 54	10.000	328.40	/ 55	10.000	328.20	/ 56	10.000	328.00	/
57	10.000	327.80	/ 58	10.000	327.60	/ 59	10.000	327.40	/ 60	10.000	327.20	/
61	10.000	327.00	/ 62	10.000	326.80	/ 63	10.000	326.60	/ 64	10.000	326.40	/
65	10.000	326.20	/ 66	10.000	326.00	/ 67	10.000	325.80	/ 68	10.000	325.60	/
69	10.000	325.40	/ 70	10.000	325.20	/ 71	10.000	325.00	/ 72	10.000	324.80	/
73	10.000	324.60	/ 74	10.000	324.40	/ 75	10.000	324.20	/ 76	10.000	324.00	/

ELEMENT GROUP NO. 1

0_L :
5 76 0 1 0 0 0 0 0 0 0 0 0 0 0 3 0 0 0 0
.....
.....2D PLASTIC SOIL .....
.....

element group behaviour throughout stage analysis

stage	status
1	active
2	active
3	active
4	active

material set no. 1

prop(1) angle 0.00000
prop(2) layer as foreseen 1.00000

material set no. 2

prop(1) angle 0.00000
prop(2) layer as foreseen 2.00000

material set no. 3

prop(1) angle 0.00000
prop(2) layer as foreseen 3.00000

element data

el	n	mat	area	.....	.....	.....	flag
1	1	1	0.1000	0.000	0.000	0.000	1.000
2	2	1	0.2000	0.000	0.000	0.000	1.000
3	3	1	0.2000	0.000	0.000	0.000	1.000
4	4	1	0.2000	0.000	0.000	0.000	1.000
5	5	1	0.2000	0.000	0.000	0.000	1.000
6	6	1	0.2000	0.000	0.000	0.000	1.000
7	7	1	0.2000	0.000	0.000	0.000	1.000
8	8	1	0.2000	0.000	0.000	0.000	1.000
9	9	1	0.2000	0.000	0.000	0.000	1.000
10	10	1	0.2000	0.000	0.000	0.000	1.000
11	11	1	0.2000	0.000	0.000	0.000	1.000
12	12	1	0.2000	0.000	0.000	0.000	1.000
13	13	1	0.2000	0.000	0.000	0.000	1.000
14	14	1	0.2000	0.000	0.000	0.000	1.000
15	15	1	0.2000	0.000	0.000	0.000	1.000
16	16	1	0.2000	0.000	0.000	0.000	1.000
17	17	1	0.2000	0.000	0.000	0.000	1.000
18	18	1	0.2000	0.000	0.000	0.000	1.000
19	19	1	0.2000	0.000	0.000	0.000	1.000
20	20	1	0.2000	0.000	0.000	0.000	1.000
21	21	2	0.2000	0.000	0.000	0.000	1.000
22	22	2	0.2000	0.000	0.000	0.000	1.000
23	23	2	0.2000	0.000	0.000	0.000	1.000
24	24	2	0.2000	0.000	0.000	0.000	1.000
25	25	2	0.2000	0.000	0.000	0.000	1.000
26	26	2	0.2000	0.000	0.000	0.000	1.000
27	27	2	0.2000	0.000	0.000	0.000	1.000
28	28	2	0.2000	0.000	0.000	0.000	1.000
29	29	2	0.2000	0.000	0.000	0.000	1.000
30	30	2	0.2000	0.000	0.000	0.000	1.000
31	31	2	0.2000	0.000	0.000	0.000	1.000
32	32	2	0.2000	0.000	0.000	0.000	1.000
33	33	2	0.2000	0.000	0.000	0.000	1.000
34	34	2	0.2000	0.000	0.000	0.000	1.000
35	35	2	0.2000	0.000	0.000	0.000	1.000
36	36	2	0.2000	0.000	0.000	0.000	1.000
37	37	2	0.2000	0.000	0.000	0.000	1.000
38	38	2	0.2000	0.000	0.000	0.000	1.000
39	39	2	0.2000	0.000	0.000	0.000	1.000
40	40	2	0.2000	0.000	0.000	0.000	1.000
41	41	3	0.2000	0.000	0.000	0.000	1.000
42	42	3	0.2000	0.000	0.000	0.000	1.000
43	43	3	0.2000	0.000	0.000	0.000	1.000

44	44	3	0.2000	0.000	0.000	0.000	1.000
45	45	3	0.2000	0.000	0.000	0.000	1.000
46	46	3	0.2000	0.000	0.000	0.000	1.000
47	47	3	0.2000	0.000	0.000	0.000	1.000
48	48	3	0.2000	0.000	0.000	0.000	1.000
49	49	3	0.2000	0.000	0.000	0.000	1.000
50	50	3	0.2000	0.000	0.000	0.000	1.000
51	51	3	0.2000	0.000	0.000	0.000	1.000
52	52	3	0.2000	0.000	0.000	0.000	1.000
53	53	3	0.2000	0.000	0.000	0.000	1.000
54	54	3	0.2000	0.000	0.000	0.000	1.000
55	55	3	0.2000	0.000	0.000	0.000	1.000
56	56	3	0.2000	0.000	0.000	0.000	1.000
57	57	3	0.2000	0.000	0.000	0.000	1.000
58	58	3	0.2000	0.000	0.000	0.000	1.000
59	59	3	0.2000	0.000	0.000	0.000	1.000
60	60	3	0.2000	0.000	0.000	0.000	1.000
61	61	3	0.2000	0.000	0.000	0.000	1.000
62	62	3	0.2000	0.000	0.000	0.000	1.000
63	63	3	0.2000	0.000	0.000	0.000	1.000
64	64	3	0.2000	0.000	0.000	0.000	1.000
65	65	3	0.2000	0.000	0.000	0.000	1.000
66	66	3	0.2000	0.000	0.000	0.000	1.000
67	67	3	0.2000	0.000	0.000	0.000	1.000
68	68	3	0.2000	0.000	0.000	0.000	1.000
69	69	3	0.2000	0.000	0.000	0.000	1.000
70	70	3	0.2000	0.000	0.000	0.000	1.000
71	71	3	0.2000	0.000	0.000	0.000	1.000
72	72	3	0.2000	0.000	0.000	0.000	1.000
73	73	3	0.2000	0.000	0.000	0.000	1.000
74	74	3	0.2000	0.000	0.000	0.000	1.000
75	75	3	0.2000	0.000	0.000	0.000	1.000
76	76	3	0.1000	0.000	0.000	0.000	1.000

```
 ELEMENT GROUP NO.  2

0_R                                                            :
   5  76   0   1   0   0   0   0   0   0   0   0   0   0   0   3   0   0   0   0
....................................
..........2D PLASTIC SOIL ..........
....................................

element group behaviour throughout stage analysis

stage   status
-------------------
    1   active
    2   active
    3   active
    4   active

 material set no.    1

 prop( 1) angle             180.000
 prop( 2) layer as foreseen  1.00000


 material set no.    2

 prop( 1) angle             180.000
 prop( 2) layer as foreseen  2.00000


 material set no.    3

 prop( 1) angle             180.000
 prop( 2) layer as foreseen  3.00000


 element data
```

el	n	mat	area	.....	.....	.....	flag
1	1	1	0.1000	0.000	0.000	0.000	2.000
2	2	1	0.2000	0.000	0.000	0.000	2.000
3	3	1	0.2000	0.000	0.000	0.000	2.000
4	4	1	0.2000	0.000	0.000	0.000	2.000
5	5	1	0.2000	0.000	0.000	0.000	2.000
6	6	1	0.2000	0.000	0.000	0.000	2.000
7	7	1	0.2000	0.000	0.000	0.000	2.000
8	8	1	0.2000	0.000	0.000	0.000	2.000
9	9	1	0.2000	0.000	0.000	0.000	2.000
10	10	1	0.2000	0.000	0.000	0.000	2.000
11	11	1	0.2000	0.000	0.000	0.000	2.000
12	12	1	0.2000	0.000	0.000	0.000	2.000
13	13	1	0.2000	0.000	0.000	0.000	2.000
14	14	1	0.2000	0.000	0.000	0.000	2.000
15	15	1	0.2000	0.000	0.000	0.000	2.000
16	16	1	0.2000	0.000	0.000	0.000	2.000
17	17	1	0.2000	0.000	0.000	0.000	2.000
18	18	1	0.2000	0.000	0.000	0.000	2.000
19	19	1	0.2000	0.000	0.000	0.000	2.000
20	20	1	0.2000	0.000	0.000	0.000	2.000
21	21	2	0.2000	0.000	0.000	0.000	2.000
22	22	2	0.2000	0.000	0.000	0.000	2.000
23	23	2	0.2000	0.000	0.000	0.000	2.000
24	24	2	0.2000	0.000	0.000	0.000	2.000
25	25	2	0.2000	0.000	0.000	0.000	2.000
26	26	2	0.2000	0.000	0.000	0.000	2.000
27	27	2	0.2000	0.000	0.000	0.000	2.000
28	28	2	0.2000	0.000	0.000	0.000	2.000
29	29	2	0.2000	0.000	0.000	0.000	2.000
30	30	2	0.2000	0.000	0.000	0.000	2.000
31	31	2	0.2000	0.000	0.000	0.000	2.000
32	32	2	0.2000	0.000	0.000	0.000	2.000
33	33	2	0.2000	0.000	0.000	0.000	2.000
34	34	2	0.2000	0.000	0.000	0.000	2.000
35	35	2	0.2000	0.000	0.000	0.000	2.000
36	36	2	0.2000	0.000	0.000	0.000	2.000
37	37	2	0.2000	0.000	0.000	0.000	2.000
38	38	2	0.2000	0.000	0.000	0.000	2.000
39	39	2	0.2000	0.000	0.000	0.000	2.000
40	40	2	0.2000	0.000	0.000	0.000	2.000
41	41	3	0.2000	0.000	0.000	0.000	2.000
42	42	3	0.2000	0.000	0.000	0.000	2.000
43	43	3	0.2000	0.000	0.000	0.000	2.000

44	44	3	0.2000	0.000	0.000	0.000	2.000
45	45	3	0.2000	0.000	0.000	0.000	2.000
46	46	3	0.2000	0.000	0.000	0.000	2.000
47	47	3	0.2000	0.000	0.000	0.000	2.000
48	48	3	0.2000	0.000	0.000	0.000	2.000
49	49	3	0.2000	0.000	0.000	0.000	2.000
50	50	3	0.2000	0.000	0.000	0.000	2.000
51	51	3	0.2000	0.000	0.000	0.000	2.000
52	52	3	0.2000	0.000	0.000	0.000	2.000
53	53	3	0.2000	0.000	0.000	0.000	2.000
54	54	3	0.2000	0.000	0.000	0.000	2.000
55	55	3	0.2000	0.000	0.000	0.000	2.000
56	56	3	0.2000	0.000	0.000	0.000	2.000
57	57	3	0.2000	0.000	0.000	0.000	2.000
58	58	3	0.2000	0.000	0.000	0.000	2.000
59	59	3	0.2000	0.000	0.000	0.000	2.000
60	60	3	0.2000	0.000	0.000	0.000	2.000
61	61	3	0.2000	0.000	0.000	0.000	2.000
62	62	3	0.2000	0.000	0.000	0.000	2.000
63	63	3	0.2000	0.000	0.000	0.000	2.000
64	64	3	0.2000	0.000	0.000	0.000	2.000
65	65	3	0.2000	0.000	0.000	0.000	2.000
66	66	3	0.2000	0.000	0.000	0.000	2.000
67	67	3	0.2000	0.000	0.000	0.000	2.000
68	68	3	0.2000	0.000	0.000	0.000	2.000
69	69	3	0.2000	0.000	0.000	0.000	2.000
70	70	3	0.2000	0.000	0.000	0.000	2.000
71	71	3	0.2000	0.000	0.000	0.000	2.000
72	72	3	0.2000	0.000	0.000	0.000	2.000
73	73	3	0.2000	0.000	0.000	0.000	2.000
74	74	3	0.2000	0.000	0.000	0.000	2.000
75	75	3	0.2000	0.000	0.000	0.000	2.000
76	76	3	0.1000	0.000	0.000	0.000	2.000

ELEMENT GROUP NO. 3

Pali1500_253215 :
2 75 0 1 0 0 0 0 0 0 0 0 0 0 1 0 0 1 0
.....
.....2D WALL ELEMENT.....
.....

element group behaviour throughout stage analysis

stage	status
1	inactive
2	active
3	active
4	active

material set no. 1

prop(1) young modulus 0.333500E+08
prop(2) modification time 0.00000
prop(3) new young modulus 0.00000
prop(4) poisson ratio 0.00000
prop(5) future 0.00000

no. of step variable items: 1

step	inertia multipier
1	1.000
2	1.000
3	1.000
4	1.000

element data

el	na	nb	mat	erc1	erc2	thick	area	inertia	wgt(-z)	by-i	by-j
1	1	2	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
2	2	3	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
3	3	4	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
4	4	5	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
5	5	6	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
6	6	7	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
7	7	8	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
8	8	9	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
9	9	10	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
10	10	11	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
11	11	12	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
12	12	13	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
13	13	14	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
14	14	15	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
15	15	16	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
16	16	17	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
17	17	18	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
18	18	19	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
19	19	20	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
20	20	21	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
21	21	22	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
22	22	23	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
23	23	24	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
24	24	25	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
25	25	26	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
26	26	27	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
27	27	28	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
28	28	29	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
29	29	30	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
30	30	31	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
31	31	32	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
32	32	33	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
33	33	34	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
34	34	35	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
35	35	36	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
36	36	37	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
37	37	38	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
38	38	39	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
39	39	40	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
40	40	41	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
41	41	42	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
42	42	43	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
43	43	44	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
44	44	45	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
45	45	46	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000

46	46	47	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
47	47	48	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
48	48	49	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
49	49	50	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
50	50	51	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
51	51	52	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
52	52	53	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
53	53	54	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
54	54	55	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
55	55	56	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
56	56	57	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
57	57	58	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
58	58	59	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
59	59	60	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
60	60	61	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
61	61	62	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
62	62	63	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
63	63	64	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
64	64	65	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
65	65	66	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
66	66	67	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
67	67	68	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
68	68	69	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
69	69	70	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
70	70	71	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
71	71	72	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
72	72	73	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
73	73	74	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
74	74	75	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
75	75	76	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000

```
+-------------------------------------------------------------------------------------------------------------------------+
|                   PARATIEPLUS(TM)   NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*              |
|                                                                                                                         |
|                                                ParatiePlus                                                              |
|                                  Exe Time :28 January 2022   16:22:49                                                   |
+-------------------------------------------------------------------------------------------------------------------------+


NO. OF NODAL LOADS  (NLOAD) ...................    0
NO. OF LOAD CURVES  (NLCUR) ...................    8
MAXIMUM POINTS/LCURVE (NPTM)...................    5
```

L O A D D A T A

LOAD FUNCTION NUMBER = 1
NUMBER OF TIME POINTS = 5

TIME VALUE	FUNCTION
0.00000	0.0000E+00
0.80000	0.0000E+00
1.00000	0.1000E+01
1.20000	0.0000E+00
5.00000	0.0000E+00

LOAD FUNCTION NUMBER = 2
NUMBER OF TIME POINTS = 5

TIME VALUE	FUNCTION
0.00000	0.0000E+00
1.80000	0.0000E+00
2.00000	0.1000E+01
2.20000	0.0000E+00
5.00000	0.0000E+00

LOAD FUNCTION NUMBER = 3
NUMBER OF TIME POINTS = 5

TIME VALUE	FUNCTION
0.00000	0.0000E+00
2.80000	0.0000E+00
3.00000	0.1000E+01
3.20000	0.0000E+00
5.00000	0.0000E+00

LOAD FUNCTION NUMBER = 4
NUMBER OF TIME POINTS = 5

TIME VALUE	FUNCTION
0.00000	0.0000E+00
3.80000	0.0000E+00
4.00000	0.1000E+01
4.20000	0.0000E+00
5.00000	0.0000E+00

LOAD FUNCTION NUMBER = 5
NUMBER OF TIME POINTS = 4

TIME VALUE	FUNCTION
0.00000	0.0000E+00
0.80000	0.0000E+00
1.00000	0.1000E+01
5.00000	0.1000E+01

LOAD FUNCTION NUMBER = 6
NUMBER OF TIME POINTS = 4

TIME VALUE	FUNCTION
0.00000	0.0000E+00
1.80000	0.0000E+00
2.00000	0.1000E+01
5.00000	0.1000E+01

LOAD FUNCTION NUMBER = 7
NUMBER OF TIME POINTS = 4

```
    TIME VALUE      FUNCTION

       0.00000    0.0000E+00
       2.80000    0.0000E+00
       3.00000    0.1000E+01
       5.00000    0.1000E+01



    LOAD FUNCTION NUMBER   =    8
    NUMBER OF TIME POINTS  =    4

    TIME VALUE      FUNCTION

       0.00000    0.0000E+00
       3.80000    0.0000E+00
       4.00000    0.1000E+01
       5.00000    0.1000E+01


NO. OF DISTRIBUTED LOAD CARDS     0
```

L O A D B A L A N C E

STEP 1 TOTAL APPLIED LOAD IN DIR. 2 Y-DISPL.F 0.0000000
STEP 1 TOTAL APPLIED LOAD IN DIR. 4 X-ROT. F 0.0000000

STEP 2 TOTAL APPLIED LOAD IN DIR. 2 Y-DISPL.F 0.0000000
STEP 2 TOTAL APPLIED LOAD IN DIR. 4 X-ROT. F 0.0000000

STEP 3 TOTAL APPLIED LOAD IN DIR. 2 Y-DISPL.F 0.0000000
STEP 3 TOTAL APPLIED LOAD IN DIR. 4 X-ROT. F 0.0000000

STEP 4 TOTAL APPLIED LOAD IN DIR. 2 Y-DISPL.F 0.0000000
STEP 4 TOTAL APPLIED LOAD IN DIR. 4 X-ROT. F 0.0000000

LOAD INPUT SECTION COMPLETED

```
+-----------------------------------------------------------------------------------------------------------------------+
|                  PARATIEPLUS(TM)   NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*             |
|                                                                                                                       |
|                                             ParatiePlus                                                               |
|                                Exe Time :28 January 2022   16:22:49                                                   |
+-----------------------------------------------------------------------------------------------------------------------+


NO. OF LAYERS ..............................    3
NO. OF DATA PER LAYER.......................  160
```

```
+---------------------------------------------------------------------------------------------------------------------+
|                  PARATIEPLUS(TM)   NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*           |
|                                                                                                                     |
|                                                     ParatiePlus                                                     |
|                                  Exe Time :28 January 2022   16:22:49                                               |
+---------------------------------------------------------------------------------------------------------------------+

LAYER DESCRIPTORS FOR STEP NO.    1


 NON ZERO LAYER DESCRIPTORS FOR LAYER NO.    1 FOR STEP NO.    1

ITEM NO.   1&lt;NAME    &gt;=  12.000     (BOTH WALLS)
ITEM NO.   2&lt;NATURE  &gt;=  1.0000     (BOTH WALLS)
ITEM NO.   3&lt;LEVEL   &gt;=  343.00     (BOTH WALLS)
ITEM NO.   4&lt;WALL    &gt;=  1.0000     (BOTH WALLS)
ITEM NO.   5&lt;GAMMAD  &gt;=  19.000     (BOTH WALLS)
ITEM NO.   6&lt;GAMMAB  &gt;=  9.0000     (BOTH WALLS)
ITEM NO.   7&lt;GAMMAW  &gt;=  10.000     (BOTH WALLS)
ITEM NO.   8&lt;U-COHE  &gt;=  8.0000     WALL NO.       1
ITEM NO.   8&lt;U-COHE  &gt;=  10.000     WALL NO.       2
ITEM NO.   9&lt;U-FRICT &gt;=  25.673     WALL NO.       1
ITEM NO.   9&lt;U-FRICT &gt;=  31.000     WALL NO.       2
ITEM NO.  10&lt;U-KA    &gt;= 0.37300     WALL NO.       1
ITEM NO.  11&lt;U-KP    &gt;=  2.8330     WALL NO.       1
ITEM NO.  12&lt;K0-NC   &gt;= 0.50000     (BOTH WALLS)
ITEM NO.  13&lt;NEXP    &gt;= 0.50000     (BOTH WALLS)
ITEM NO.  14&lt;OCR     &gt;=  1.0000     (BOTH WALLS)
ITEM NO.  16&lt;MODEL   &gt;=  1.0000     (BOTH WALLS)
ITEM NO.  17&lt;EVC     &gt;=  40000.     (BOTH WALLS)
ITEM NO.  18&lt;EUR     &gt;= 0.12000E+06 (BOTH WALLS)
ITEM NO.  27&lt;U-PERM  &gt;= 0.10000E-04 (BOTH WALLS)
ITEM NO.  58&lt;U-TZKZ  &gt;=  10000.     (BOTH WALLS)
ITEM NO.  60&lt;U-TZDELT&gt;=  25.000     (BOTH WALLS)
ITEM NO.  61&lt;U-TZALPH&gt;= 0.50000     (BOTH WALLS)
ITEM NO.  82&lt;D-NATURE&gt;=  1.0000     (BOTH WALLS)
ITEM NO.  83&lt;D-LEVEL &gt;=  343.00     (BOTH WALLS)
ITEM NO.  88&lt;D-COHE  &gt;=  8.0000     WALL NO.       1
ITEM NO.  88&lt;D-COHE  &gt;=  10.000     WALL NO.       2
ITEM NO.  89&lt;D-FRICT &gt;=  25.673     WALL NO.       1
ITEM NO.  89&lt;D-FRICT &gt;=  31.000     WALL NO.       2
ITEM NO.  90&lt;D-KA    &gt;= 0.42300     WALL NO.       1
ITEM NO.  91&lt;D-KP    &gt;=  3.3430     WALL NO.       1
ITEM NO. 107&lt;D-PERM  &gt;= 0.10000E-04 (BOTH WALLS)
ITEM NO. 138&lt;D-TZKZ  &gt;=  10000.     (BOTH WALLS)
ITEM NO. 140&lt;D-TZDELT&gt;=  25.000     (BOTH WALLS)
ITEM NO. 141&lt;D-TZALPH&gt;= 0.50000     (BOTH WALLS)

 NON ZERO LAYER DESCRIPTORS FOR LAYER NO.    2 FOR STEP NO.    1

ITEM NO.   1&lt;NAME    &gt;=  13.000     (BOTH WALLS)
ITEM NO.   2&lt;NATURE  &gt;=  1.0000     (BOTH WALLS)
ITEM NO.   3&lt;LEVEL   &gt;=  335.00     (BOTH WALLS)
ITEM NO.   4&lt;WALL    &gt;=  1.0000     (BOTH WALLS)
ITEM NO.   5&lt;GAMMAD  &gt;=  20.000     (BOTH WALLS)
ITEM NO.   6&lt;GAMMAB  &gt;=  10.000     (BOTH WALLS)
ITEM NO.   7&lt;GAMMAW  &gt;=  10.000     (BOTH WALLS)
ITEM NO.   8&lt;U-COHE  &gt;=  8.0000     WALL NO.       1
ITEM NO.   8&lt;U-COHE  &gt;=  10.000     WALL NO.       2
ITEM NO.   9&lt;U-FRICT &gt;=  21.315     WALL NO.       1
ITEM NO.   9&lt;U-FRICT &gt;=  26.000     WALL NO.       2
ITEM NO.  10&lt;U-KA    &gt;= 0.43900     WALL NO.       1
ITEM NO.  11&lt;U-KP    &gt;=  2.2550     WALL NO.       1
ITEM NO.  12&lt;K0-NC   &gt;= 0.56200     (BOTH WALLS)
ITEM NO.  13&lt;NEXP    &gt;= 0.50000     (BOTH WALLS)
ITEM NO.  14&lt;OCR     &gt;=  1.0000     (BOTH WALLS)
ITEM NO.  16&lt;MODEL   &gt;=  1.0000     (BOTH WALLS)
ITEM NO.  17&lt;EVC     &gt;= 0.20000E+06 (BOTH WALLS)
ITEM NO.  18&lt;EUR     &gt;= 0.60000E+06 (BOTH WALLS)
ITEM NO.  27&lt;U-PERM  &gt;= 0.10000E-04 (BOTH WALLS)
ITEM NO.  58&lt;U-TZKZ  &gt;=  10000.     (BOTH WALLS)
ITEM NO.  60&lt;U-TZDELT&gt;=  25.000     (BOTH WALLS)
ITEM NO.  61&lt;U-TZALPH&gt;= 0.50000     (BOTH WALLS)
ITEM NO.  82&lt;D-NATURE&gt;=  1.0000     (BOTH WALLS)
ITEM NO.  83&lt;D-LEVEL &gt;=  0.0000     (BOTH WALLS)
ITEM NO.  88&lt;D-COHE  &gt;=  8.0000     WALL NO.       1
ITEM NO.  88&lt;D-COHE  &gt;=  10.000     WALL NO.       2
ITEM NO.  89&lt;D-FRICT &gt;=  21.315     WALL NO.       1
ITEM NO.  89&lt;D-FRICT &gt;=  26.000     WALL NO.       2
ITEM NO.  90&lt;D-KA    &gt;= 0.50300     WALL NO.       1
ITEM NO.  91&lt;D-KP    &gt;=  2.6490     WALL NO.       1
ITEM NO. 107&lt;D-PERM  &gt;= 0.10000E-04 (BOTH WALLS)
ITEM NO. 138&lt;D-TZKZ  &gt;=  10000.     (BOTH WALLS)
ITEM NO. 140&lt;D-TZDELT&gt;=  25.000     (BOTH WALLS)
ITEM NO. 141&lt;D-TZALPH&gt;= 0.50000     (BOTH WALLS)

 NON ZERO LAYER DESCRIPTORS FOR LAYER NO.    3 FOR STEP NO.    1

ITEM NO.   1&lt;NAME    &gt;=  14.000     (BOTH WALLS)
```

ITEM NO. 2<NATURE >= 1.0000   (BOTH WALLS)
ITEM NO. 3<LEVEL   >= 331.00   (BOTH WALLS)
ITEM NO. 4<WALL   >= 1.0000   (BOTH WALLS)
ITEM NO. 5<GAMMAD >= 22.500   (BOTH WALLS)
ITEM NO. 6<GAMMAB >= 12.500   (BOTH WALLS)
ITEM NO. 7<GAMMAW >= 10.000   (BOTH WALLS)
ITEM NO. 8<U-COHE >= 40.000   WALL NO.   1
ITEM NO. 8<U-COHE >= 50.000   WALL NO.   2
ITEM NO. 9<U-FRICT >= 22.177   WALL NO.   1
ITEM NO. 9<U-FRICT >= 27.000   WALL NO.   2
ITEM NO. 10<U-KA   >= 0.42600   WALL NO.   1
ITEM NO. 11<U-KP   >= 2.3340   WALL NO.   1
ITEM NO. 12<K0-NC   >= 0.50000   (BOTH WALLS)
ITEM NO. 13<NEXP   >= 0.50000   (BOTH WALLS)
ITEM NO. 14<OCR   >= 1.0000   (BOTH WALLS)
ITEM NO. 16<MODEL   >= 1.0000   (BOTH WALLS)
ITEM NO. 17<EVC   >= 0.10000E+06 (BOTH WALLS)
ITEM NO. 18<EUR   >= 0.30000E+06 (BOTH WALLS)
ITEM NO. 27<U-PERM >= 0.10000E-03 (BOTH WALLS)
ITEM NO. 58<U-TZKZ >= 20000.   (BOTH WALLS)
ITEM NO. 60<U-TZDELT>= 30.000   (BOTH WALLS)
ITEM NO. 61<U-TZALPH>= 0.50000   (BOTH WALLS)
ITEM NO. 82<D-NATURE>= 1.0000   (BOTH WALLS)
ITEM NO. 83<D-LEVEL >= 0.0000   (BOTH WALLS)
ITEM NO. 88<D-COHE >= 40.000   WALL NO.   1
ITEM NO. 88<D-COHE >= 50.000   WALL NO.   2
ITEM NO. 89<D-FRICT >= 22.177   WALL NO.   1
ITEM NO. 89<D-FRICT >= 27.000   WALL NO.   2
ITEM NO. 90<D-KA   >= 0.48600   WALL NO.   1
ITEM NO. 91<D-KP   >= 2.7700   WALL NO.   1
ITEM NO. 107<D-PERM >= 0.10000E-03 (BOTH WALLS)
ITEM NO. 138<D-TZKZ >= 20000.   (BOTH WALLS)
ITEM NO. 140<D-TZDELT>= 30.000   (BOTH WALLS)
ITEM NO. 141<D-TZALPH>= 0.50000   (BOTH WALLS)

LAYER DESCRIPTORS FOR STEP NO.   2

 NON ZERO LAYER DESCRIPTORS FOR LAYER NO.   1 FOR STEP NO.   2

ITEM NO. 1<NAME   >= 12.000   (BOTH WALLS)
ITEM NO. 2<NATURE >= 1.0000   (BOTH WALLS)
ITEM NO. 3<LEVEL   >= 343.00   (BOTH WALLS)
ITEM NO. 4<WALL   >= 1.0000   (BOTH WALLS)
ITEM NO. 5<GAMMAD >= 19.000   (BOTH WALLS)
ITEM NO. 6<GAMMAB >= 9.0000   (BOTH WALLS)
ITEM NO. 7<GAMMAW >= 10.000   (BOTH WALLS)
ITEM NO. 8<U-COHE >= 8.0000   WALL NO.   1
ITEM NO. 8<U-COHE >= 10.000   WALL NO.   2
ITEM NO. 9<U-FRICT >= 25.673   WALL NO.   1
ITEM NO. 9<U-FRICT >= 31.000   WALL NO.   2
ITEM NO. 10<U-KA   >= 0.39900   WALL NO.   1
ITEM NO. 11<U-KP   >= 3.3430   WALL NO.   1
ITEM NO. 12<K0-NC   >= 0.50000   (BOTH WALLS)
ITEM NO. 13<NEXP   >= 0.50000   (BOTH WALLS)
ITEM NO. 14<OCR   >= 1.0000   (BOTH WALLS)
ITEM NO. 16<MODEL   >= 1.0000   (BOTH WALLS)
ITEM NO. 17<EVC   >= 40000.   (BOTH WALLS)
ITEM NO. 18<EUR   >= 0.12000E+06 (BOTH WALLS)
ITEM NO. 27<U-PERM >= 0.10000E-04 (BOTH WALLS)
ITEM NO. 58<U-TZKZ >= 10000.   (BOTH WALLS)
ITEM NO. 60<U-TZDELT>= 25.000   (BOTH WALLS)
ITEM NO. 61<U-TZALPH>= 0.50000   (BOTH WALLS)
ITEM NO. 82<D-NATURE>= 1.0000   (BOTH WALLS)
ITEM NO. 83<D-LEVEL >= 343.00   (BOTH WALLS)
ITEM NO. 88<D-COHE >= 8.0000   WALL NO.   1
ITEM NO. 88<D-COHE >= 10.000   WALL NO.   2
ITEM NO. 89<D-FRICT >= 25.673   WALL NO.   1
ITEM NO. 89<D-FRICT >= 31.000   WALL NO.   2
ITEM NO. 90<D-KA   >= 0.39500   WALL NO.   1
ITEM NO. 91<D-KP   >= 3.3430   WALL NO.   1
ITEM NO. 107<D-PERM >= 0.10000E-04 (BOTH WALLS)
ITEM NO. 138<D-TZKZ >= 10000.   (BOTH WALLS)
ITEM NO. 140<D-TZDELT>= 25.000   (BOTH WALLS)
ITEM NO. 141<D-TZALPH>= 0.50000   (BOTH WALLS)

 NON ZERO LAYER DESCRIPTORS FOR LAYER NO.   2 FOR STEP NO.   2

ITEM NO. 1<NAME   >= 13.000   (BOTH WALLS)
ITEM NO. 2<NATURE >= 1.0000   (BOTH WALLS)
ITEM NO. 3<LEVEL   >= 335.00   (BOTH WALLS)
ITEM NO. 4<WALL   >= 1.0000   (BOTH WALLS)
ITEM NO. 5<GAMMAD >= 20.000   (BOTH WALLS)
ITEM NO. 6<GAMMAB >= 10.000   (BOTH WALLS)
ITEM NO. 7<GAMMAW >= 10.000   (BOTH WALLS)
ITEM NO. 8<U-COHE >= 8.0000   WALL NO.   1
ITEM NO. 8<U-COHE >= 10.000   WALL NO.   2
ITEM NO. 9<U-FRICT >= 21.315   WALL NO.   1
ITEM NO. 9<U-FRICT >= 26.000   WALL NO.   2
ITEM NO. 10<U-KA   >= 0.61300   WALL NO.   1
ITEM NO. 11<U-KP   >= 2.6490   WALL NO.   1
ITEM NO. 12<K0-NC   >= 0.56200   (BOTH WALLS)

```
ITEM NO.  13&lt;NEXP    &gt;= 0.50000     (BOTH WALLS)
ITEM NO.  14&lt;OCR     &gt;=  1.0000     (BOTH WALLS)
ITEM NO.  16&lt;MODEL   &gt;=  1.0000     (BOTH WALLS)
ITEM NO.  17&lt;EVC     &gt;= 0.20000E+06 (BOTH WALLS)
ITEM NO.  18&lt;EUR     &gt;= 0.60000E+06 (BOTH WALLS)
ITEM NO.  27&lt;U-PERM  &gt;= 0.10000E-04 (BOTH WALLS)
ITEM NO.  58&lt;U-TZKZ  &gt;=  10000.     (BOTH WALLS)
ITEM NO.  60&lt;U-TZDELT&gt;=  25.000     (BOTH WALLS)
ITEM NO.  61&lt;U-TZALPH&gt;= 0.50000     (BOTH WALLS)
ITEM NO.  82&lt;D-NATURE&gt;=  1.0000     (BOTH WALLS)
ITEM NO.  83&lt;D-LEVEL &gt;=  0.0000     (BOTH WALLS)
ITEM NO.  88&lt;D-COHE  &gt;=  8.0000     WALL NO.        1
ITEM NO.  88&lt;D-COHE  &gt;=  10.000     WALL NO.        2
ITEM NO.  89&lt;D-FRICT &gt;=  21.315     WALL NO.        1
ITEM NO.  89&lt;D-FRICT &gt;=  26.000     WALL NO.        2
ITEM NO.  90&lt;D-KA    &gt;= 0.46700     WALL NO.        1
ITEM NO.  91&lt;D-KP    &gt;=  2.6490     WALL NO.        1
ITEM NO. 107&lt;D-PERM  &gt;= 0.10000E-04 (BOTH WALLS)
ITEM NO. 138&lt;D-TZKZ  &gt;=  10000.     (BOTH WALLS)
ITEM NO. 140&lt;D-TZDELT&gt;=  25.000     (BOTH WALLS)
ITEM NO. 141&lt;D-TZALPH&gt;= 0.50000     (BOTH WALLS)

 NON ZERO LAYER DESCRIPTORS FOR LAYER NO.    3 FOR STEP NO.    2

ITEM NO.   1&lt;NAME    &gt;=  14.000     (BOTH WALLS)
ITEM NO.   2&lt;NATURE  &gt;=  1.0000     (BOTH WALLS)
ITEM NO.   3&lt;LEVEL   &gt;=  331.00     (BOTH WALLS)
ITEM NO.   4&lt;WALL    &gt;=  1.0000     (BOTH WALLS)
ITEM NO.   5&lt;GAMMAD  &gt;=  22.500     (BOTH WALLS)
ITEM NO.   6&lt;GAMMAB  &gt;=  12.500     (BOTH WALLS)
ITEM NO.   7&lt;GAMMAW  &gt;=  10.000     (BOTH WALLS)
ITEM NO.   8&lt;U-COHE  &gt;=  40.000     WALL NO.        1
ITEM NO.   8&lt;U-COHE  &gt;=  50.000     WALL NO.        2
ITEM NO.   9&lt;U-FRICT &gt;=  22.177     WALL NO.        1
ITEM NO.   9&lt;U-FRICT &gt;=  27.000     WALL NO.        2
ITEM NO.  10&lt;U-KA    &gt;= 0.61100     WALL NO.        1
ITEM NO.  11&lt;U-KP    &gt;=  2.7700     WALL NO.        1
ITEM NO.  12&lt;K0-NC   &gt;= 0.50000     (BOTH WALLS)
ITEM NO.  13&lt;NEXP    &gt;= 0.50000     (BOTH WALLS)
ITEM NO.  14&lt;OCR     &gt;=  1.0000     (BOTH WALLS)
ITEM NO.  16&lt;MODEL   &gt;=  1.0000     (BOTH WALLS)
ITEM NO.  17&lt;EVC     &gt;= 0.10000E+06 (BOTH WALLS)
ITEM NO.  18&lt;EUR     &gt;= 0.30000E+06 (BOTH WALLS)
ITEM NO.  27&lt;U-PERM  &gt;= 0.10000E-03 (BOTH WALLS)
ITEM NO.  58&lt;U-TZKZ  &gt;=  20000.     (BOTH WALLS)
ITEM NO.  60&lt;U-TZDELT&gt;=  30.000     (BOTH WALLS)
ITEM NO.  61&lt;U-TZALPH&gt;= 0.50000     (BOTH WALLS)
ITEM NO.  82&lt;D-NATURE&gt;=  1.0000     (BOTH WALLS)
ITEM NO.  83&lt;D-LEVEL &gt;=  0.0000     (BOTH WALLS)
ITEM NO.  88&lt;D-COHE  &gt;=  40.000     WALL NO.        1
ITEM NO.  88&lt;D-COHE  &gt;=  50.000     WALL NO.        2
ITEM NO.  89&lt;D-FRICT &gt;=  22.177     WALL NO.        1
ITEM NO.  89&lt;D-FRICT &gt;=  27.000     WALL NO.        2
ITEM NO.  90&lt;D-KA    &gt;= 0.45200     WALL NO.        1
ITEM NO.  91&lt;D-KP    &gt;=  2.7700     WALL NO.        1
ITEM NO. 107&lt;D-PERM  &gt;= 0.10000E-03 (BOTH WALLS)
ITEM NO. 138&lt;D-TZKZ  &gt;=  20000.     (BOTH WALLS)
ITEM NO. 140&lt;D-TZDELT&gt;=  30.000     (BOTH WALLS)
ITEM NO. 141&lt;D-TZALPH&gt;= 0.50000     (BOTH WALLS)

LAYER DESCRIPTORS FOR STEP NO.    3


 NON ZERO LAYER DESCRIPTORS FOR LAYER NO.    1 FOR STEP NO.    3

ITEM NO.   1&lt;NAME    &gt;=  12.000     (BOTH WALLS)
ITEM NO.   2&lt;NATURE  &gt;=  1.0000     (BOTH WALLS)
ITEM NO.   3&lt;LEVEL   &gt;=  343.00     (BOTH WALLS)
ITEM NO.   4&lt;WALL    &gt;=  1.0000     (BOTH WALLS)
ITEM NO.   5&lt;GAMMAD  &gt;=  19.000     (BOTH WALLS)
ITEM NO.   6&lt;GAMMAB  &gt;=  9.0000     (BOTH WALLS)
ITEM NO.   7&lt;GAMMAW  &gt;=  10.000     (BOTH WALLS)
ITEM NO.   8&lt;U-COHE  &gt;=  8.0000     WALL NO.        1
ITEM NO.   8&lt;U-COHE  &gt;=  10.000     WALL NO.        2
ITEM NO.   9&lt;U-FRICT &gt;=  25.673     WALL NO.        1
ITEM NO.   9&lt;U-FRICT &gt;=  31.000     WALL NO.        2
ITEM NO.  10&lt;U-KA    &gt;= 0.39900     WALL NO.        1
ITEM NO.  11&lt;U-KP    &gt;=  3.3430     WALL NO.        1
ITEM NO.  12&lt;K0-NC   &gt;= 0.50000     (BOTH WALLS)
ITEM NO.  13&lt;NEXP    &gt;= 0.50000     (BOTH WALLS)
ITEM NO.  14&lt;OCR     &gt;=  1.0000     (BOTH WALLS)
ITEM NO.  16&lt;MODEL   &gt;=  1.0000     (BOTH WALLS)
ITEM NO.  17&lt;EVC     &gt;=  40000.     (BOTH WALLS)
ITEM NO.  18&lt;EUR     &gt;= 0.12000E+06 (BOTH WALLS)
ITEM NO.  27&lt;U-PERM  &gt;= 0.10000E-04 (BOTH WALLS)
ITEM NO.  58&lt;U-TZKZ  &gt;=  10000.     (BOTH WALLS)
ITEM NO.  60&lt;U-TZDELT&gt;=  25.000     (BOTH WALLS)
ITEM NO.  61&lt;U-TZALPH&gt;= 0.50000     (BOTH WALLS)
ITEM NO.  82&lt;D-NATURE&gt;=  1.0000     (BOTH WALLS)
ITEM NO.  83&lt;D-LEVEL &gt;=  343.00     (BOTH WALLS)
ITEM NO.  88&lt;D-COHE  &gt;=  8.0000     WALL NO.        1
ITEM NO.  88&lt;D-COHE  &gt;=  10.000     WALL NO.        2
```

```
ITEM NO.  89&lt;D-FRICT &gt;=  25.673     WALL NO.        1
ITEM NO.  89&lt;D-FRICT &gt;=  31.000     WALL NO.        2
ITEM NO.  90&lt;D-KA    &gt;= 0.39500     WALL NO.        1
ITEM NO.  91&lt;D-KP    &gt;=  3.3430     WALL NO.        1
ITEM NO. 107&lt;D-PERM  &gt;= 0.10000E-04 (BOTH WALLS)
ITEM NO. 138&lt;D-TZKZ  &gt;=  10000.     (BOTH WALLS)
ITEM NO. 140&lt;D-TZDELT&gt;=  25.000     (BOTH WALLS)
ITEM NO. 141&lt;D-TZALPH&gt;= 0.50000     (BOTH WALLS)

 NON ZERO LAYER DESCRIPTORS FOR LAYER NO.    2 FOR STEP NO.    3

ITEM NO.   1&lt;NAME    &gt;=  13.000     (BOTH WALLS)
ITEM NO.   2&lt;NATURE  &gt;=  1.0000     (BOTH WALLS)
ITEM NO.   3&lt;LEVEL   &gt;=  335.00     (BOTH WALLS)
ITEM NO.   4&lt;WALL    &gt;=  1.0000     (BOTH WALLS)
ITEM NO.   5&lt;GAMMAD  &gt;=  20.000     (BOTH WALLS)
ITEM NO.   6&lt;GAMMAB  &gt;=  10.000     (BOTH WALLS)
ITEM NO.   7&lt;GAMMAW  &gt;=  10.000     (BOTH WALLS)
ITEM NO.   8&lt;U-COHE  &gt;=  8.0000     WALL NO.        1
ITEM NO.   8&lt;U-COHE  &gt;=  10.000     WALL NO.        2
ITEM NO.   9&lt;U-FRICT &gt;=  21.315     WALL NO.        1
ITEM NO.   9&lt;U-FRICT &gt;=  26.000     WALL NO.        2
ITEM NO.  10&lt;U-KA    &gt;= 0.61300     WALL NO.        1
ITEM NO.  11&lt;U-KP    &gt;=  2.6490     WALL NO.        1
ITEM NO.  12&lt;K0-NC   &gt;= 0.56200     (BOTH WALLS)
ITEM NO.  13&lt;NEXP    &gt;= 0.50000     (BOTH WALLS)
ITEM NO.  14&lt;OCR     &gt;=  1.0000     (BOTH WALLS)
ITEM NO.  16&lt;MODEL   &gt;=  1.0000     (BOTH WALLS)
ITEM NO.  17&lt;EVC     &gt;= 0.20000E+06 (BOTH WALLS)
ITEM NO.  18&lt;EUR     &gt;= 0.60000E+06 (BOTH WALLS)
ITEM NO.  27&lt;U-PERM  &gt;= 0.10000E-04 (BOTH WALLS)
ITEM NO.  58&lt;U-TZKZ  &gt;=  10000.     (BOTH WALLS)
ITEM NO.  60&lt;U-TZDELT&gt;=  25.000     (BOTH WALLS)
ITEM NO.  61&lt;U-TZALPH&gt;= 0.50000     (BOTH WALLS)
ITEM NO.  82&lt;D-NATURE&gt;=  1.0000     (BOTH WALLS)
ITEM NO.  83&lt;D-LEVEL &gt;=  0.0000     (BOTH WALLS)
ITEM NO.  88&lt;D-COHE  &gt;=  8.0000     WALL NO.        1
ITEM NO.  88&lt;D-COHE  &gt;=  10.000     WALL NO.        2
ITEM NO.  89&lt;D-FRICT &gt;=  21.315     WALL NO.        1
ITEM NO.  89&lt;D-FRICT &gt;=  26.000     WALL NO.        2
ITEM NO.  90&lt;D-KA    &gt;= 0.46700     WALL NO.        1
ITEM NO.  91&lt;D-KP    &gt;=  2.6490     WALL NO.        1
ITEM NO. 107&lt;D-PERM  &gt;= 0.10000E-04 (BOTH WALLS)
ITEM NO. 138&lt;D-TZKZ  &gt;=  10000.     (BOTH WALLS)
ITEM NO. 140&lt;D-TZDELT&gt;=  25.000     (BOTH WALLS)
ITEM NO. 141&lt;D-TZALPH&gt;= 0.50000     (BOTH WALLS)

 NON ZERO LAYER DESCRIPTORS FOR LAYER NO.    3 FOR STEP NO.    3

ITEM NO.   1&lt;NAME    &gt;=  14.000     (BOTH WALLS)
ITEM NO.   2&lt;NATURE  &gt;=  1.0000     (BOTH WALLS)
ITEM NO.   3&lt;LEVEL   &gt;=  331.00     (BOTH WALLS)
ITEM NO.   4&lt;WALL    &gt;=  1.0000     (BOTH WALLS)
ITEM NO.   5&lt;GAMMAD  &gt;=  22.500     (BOTH WALLS)
ITEM NO.   6&lt;GAMMAB  &gt;=  12.500     (BOTH WALLS)
ITEM NO.   7&lt;GAMMAW  &gt;=  10.000     (BOTH WALLS)
ITEM NO.   8&lt;U-COHE  &gt;=  40.000     WALL NO.        1
ITEM NO.   8&lt;U-COHE  &gt;=  50.000     WALL NO.        2
ITEM NO.   9&lt;U-FRICT &gt;=  22.177     WALL NO.        1
ITEM NO.   9&lt;U-FRICT &gt;=  27.000     WALL NO.        2
ITEM NO.  10&lt;U-KA    &gt;= 0.61100     WALL NO.        1
ITEM NO.  11&lt;U-KP    &gt;=  2.7700     WALL NO.        1
ITEM NO.  12&lt;K0-NC   &gt;= 0.50000     (BOTH WALLS)
ITEM NO.  13&lt;NEXP    &gt;= 0.50000     (BOTH WALLS)
ITEM NO.  14&lt;OCR     &gt;=  1.0000     (BOTH WALLS)
ITEM NO.  16&lt;MODEL   &gt;=  1.0000     (BOTH WALLS)
ITEM NO.  17&lt;EVC     &gt;= 0.10000E+06 (BOTH WALLS)
ITEM NO.  18&lt;EUR     &gt;= 0.30000E+06 (BOTH WALLS)
ITEM NO.  27&lt;U-PERM  &gt;= 0.10000E-03 (BOTH WALLS)
ITEM NO.  58&lt;U-TZKZ  &gt;=  20000.     (BOTH WALLS)
ITEM NO.  60&lt;U-TZDELT&gt;=  30.000     (BOTH WALLS)
ITEM NO.  61&lt;U-TZALPH&gt;= 0.50000     (BOTH WALLS)
ITEM NO.  82&lt;D-NATURE&gt;=  1.0000     (BOTH WALLS)
ITEM NO.  83&lt;D-LEVEL &gt;=  0.0000     (BOTH WALLS)
ITEM NO.  88&lt;D-COHE  &gt;=  40.000     WALL NO.        1
ITEM NO.  88&lt;D-COHE  &gt;=  50.000     WALL NO.        2
ITEM NO.  89&lt;D-FRICT &gt;=  22.177     WALL NO.        1
ITEM NO.  89&lt;D-FRICT &gt;=  27.000     WALL NO.        2
ITEM NO.  90&lt;D-KA    &gt;= 0.45200     WALL NO.        1
ITEM NO.  91&lt;D-KP    &gt;=  2.7700     WALL NO.        1
ITEM NO. 107&lt;D-PERM  &gt;= 0.10000E-03 (BOTH WALLS)
ITEM NO. 138&lt;D-TZKZ  &gt;=  20000.     (BOTH WALLS)
ITEM NO. 140&lt;D-TZDELT&gt;=  30.000     (BOTH WALLS)
ITEM NO. 141&lt;D-TZALPH&gt;= 0.50000     (BOTH WALLS)

LAYER DESCRIPTORS FOR STEP NO.    4


 NON ZERO LAYER DESCRIPTORS FOR LAYER NO.    1 FOR STEP NO.    4

ITEM NO.   1&lt;NAME    &gt;=  12.000     (BOTH WALLS)
ITEM NO.   2&lt;NATURE  &gt;=  1.0000     (BOTH WALLS)
```

ITEM NO. 3<LEVEL >= 343.00 (BOTH WALLS)
ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)
ITEM NO. 5<GAMMAD >= 19.000 (BOTH WALLS)
ITEM NO. 6<GAMMAB >= 9.0000 (BOTH WALLS)
ITEM NO. 7<GAMMAW >= 10.000 (BOTH WALLS)
ITEM NO. 8<U-COHE >= 8.0000 WALL NO. 1
ITEM NO. 8<U-COHE >= 10.000 WALL NO. 2
ITEM NO. 9<U-FRICT >= 25.673 WALL NO. 1
ITEM NO. 9<U-FRICT >= 31.000 WALL NO. 2
ITEM NO. 10<U-KA >= 0.39900 WALL NO. 1
ITEM NO. 11<U-KP >= 3.3430 WALL NO. 1
ITEM NO. 12<K0-NC >= 0.50000 (BOTH WALLS)
ITEM NO. 13<NEXP >= 0.50000 (BOTH WALLS)
ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)
ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)
ITEM NO. 17<EVC >= 40000. (BOTH WALLS)
ITEM NO. 18<EUR >= 0.12000E+06 (BOTH WALLS)
ITEM NO. 27<U-PERM >= 0.10000E-04 (BOTH WALLS)
ITEM NO. 58<U-TZKZ >= 10000. (BOTH WALLS)
ITEM NO. 60<U-TZDELT>= 25.000 (BOTH WALLS)
ITEM NO. 61<U-TZALPH>= 0.50000 (BOTH WALLS)
ITEM NO. 82<D-NATURE>= 1.0000 (BOTH WALLS)
ITEM NO. 83<D-LEVEL >= 343.00 (BOTH WALLS)
ITEM NO. 88<D-COHE >= 8.0000 WALL NO. 1
ITEM NO. 88<D-COHE >= 10.000 WALL NO. 2
ITEM NO. 89<D-FRICT >= 25.673 WALL NO. 1
ITEM NO. 89<D-FRICT >= 31.000 WALL NO. 2
ITEM NO. 90<D-KA >= 0.39500 WALL NO. 1
ITEM NO. 91<D-KP >= 3.3430 WALL NO. 1
ITEM NO. 107<D-PERM >= 0.10000E-04 (BOTH WALLS)
ITEM NO. 138<D-TZKZ >= 10000. (BOTH WALLS)
ITEM NO. 140<D-TZDELT>= 25.000 (BOTH WALLS)
ITEM NO. 141<D-TZALPH>= 0.50000 (BOTH WALLS)

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 2 FOR STEP NO. 4

ITEM NO. 1<NAME >= 13.000 (BOTH WALLS)
ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
ITEM NO. 3<LEVEL >= 335.00 (BOTH WALLS)
ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)
ITEM NO. 5<GAMMAD >= 20.000 (BOTH WALLS)
ITEM NO. 6<GAMMAB >= 10.000 (BOTH WALLS)
ITEM NO. 7<GAMMAW >= 10.000 (BOTH WALLS)
ITEM NO. 8<U-COHE >= 8.0000 WALL NO. 1
ITEM NO. 8<U-COHE >= 10.000 WALL NO. 2
ITEM NO. 9<U-FRICT >= 21.315 WALL NO. 1
ITEM NO. 9<U-FRICT >= 26.000 WALL NO. 2
ITEM NO. 10<U-KA >= 0.61300 WALL NO. 1
ITEM NO. 11<U-KP >= 2.6490 WALL NO. 1
ITEM NO. 12<K0-NC >= 0.56200 (BOTH WALLS)
ITEM NO. 13<NEXP >= 0.50000 (BOTH WALLS)
ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)
ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)
ITEM NO. 17<EVC >= 0.20000E+06 (BOTH WALLS)
ITEM NO. 18<EUR >= 0.60000E+06 (BOTH WALLS)
ITEM NO. 27<U-PERM >= 0.10000E-04 (BOTH WALLS)
ITEM NO. 58<U-TZKZ >= 10000. (BOTH WALLS)
ITEM NO. 60<U-TZDELT>= 25.000 (BOTH WALLS)
ITEM NO. 61<U-TZALPH>= 0.50000 (BOTH WALLS)
ITEM NO. 82<D-NATURE>= 1.0000 (BOTH WALLS)
ITEM NO. 83<D-LEVEL >= 0.0000 (BOTH WALLS)
ITEM NO. 88<D-COHE >= 8.0000 WALL NO. 1
ITEM NO. 88<D-COHE >= 10.000 WALL NO. 2
ITEM NO. 89<D-FRICT >= 21.315 WALL NO. 1
ITEM NO. 89<D-FRICT >= 26.000 WALL NO. 2
ITEM NO. 90<D-KA >= 0.46700 WALL NO. 1
ITEM NO. 91<D-KP >= 2.6490 WALL NO. 1
ITEM NO. 107<D-PERM >= 0.10000E-04 (BOTH WALLS)
ITEM NO. 138<D-TZKZ >= 10000. (BOTH WALLS)
ITEM NO. 140<D-TZDELT>= 25.000 (BOTH WALLS)
ITEM NO. 141<D-TZALPH>= 0.50000 (BOTH WALLS)

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 3 FOR STEP NO. 4

ITEM NO. 1<NAME >= 14.000 (BOTH WALLS)
ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
ITEM NO. 3<LEVEL >= 331.00 (BOTH WALLS)
ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)
ITEM NO. 5<GAMMAD >= 22.500 (BOTH WALLS)
ITEM NO. 6<GAMMAB >= 12.500 (BOTH WALLS)
ITEM NO. 7<GAMMAW >= 10.000 (BOTH WALLS)
ITEM NO. 8<U-COHE >= 40.000 WALL NO. 1
ITEM NO. 8<U-COHE >= 50.000 WALL NO. 2
ITEM NO. 9<U-FRICT >= 22.177 WALL NO. 1
ITEM NO. 9<U-FRICT >= 27.000 WALL NO. 2
ITEM NO. 10<U-KA >= 0.61100 WALL NO. 1
ITEM NO. 11<U-KP >= 2.7700 WALL NO. 1
ITEM NO. 12<K0-NC >= 0.50000 (BOTH WALLS)
ITEM NO. 13<NEXP >= 0.50000 (BOTH WALLS)
ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)
ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)
ITEM NO. 17<EVC >= 0.10000E+06 (BOTH WALLS)

ITEM NO. 18<EUR   >= 0.30000E+06 (BOTH WALLS)
ITEM NO. 27<U-PERM >= 0.10000E-03 (BOTH WALLS)
ITEM NO. 58<U-TZKZ >= 20000.   (BOTH WALLS)
ITEM NO. 60<U-TZDELT>= 30.000   (BOTH WALLS)
ITEM NO. 61<U-TZALPH>= 0.50000   (BOTH WALLS)
ITEM NO. 82<D-NATURE>= 1.0000   (BOTH WALLS)
ITEM NO. 83<D-LEVEL >= 0.0000   (BOTH WALLS)
ITEM NO. 88<D-COHE >= 40.000   WALL NO.   1
ITEM NO. 88<D-COHE >= 50.000   WALL NO.   2
ITEM NO. 89<D-FRICT >= 22.177   WALL NO.   1
ITEM NO. 89<D-FRICT >= 27.000   WALL NO.   2
ITEM NO. 90<D-KA   >= 0.45200   WALL NO.   1
ITEM NO. 91<D-KP   >= 2.7700   WALL NO.   1
ITEM NO. 107<D-PERM >= 0.10000E-03 (BOTH WALLS)
ITEM NO. 138<D-TZKZ >= 20000.   (BOTH WALLS)
ITEM NO. 140<D-TZDELT>= 30.000   (BOTH WALLS)
ITEM NO. 141<D-TZALPH>= 0.50000   (BOTH WALLS)

DEFAULT WATER UNIT WEIGHT = 10.000
AVERAGED ON   12 VALUES

```
+-----------------------------------------------------------------------------------------------------------------------+
|                   PARATIEPLUS(TM)   NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*             |
|                                                                                                                       |
|                                                ParatiePlus                                                            |
|                                  Exe Time :28 January 2022   16:22:49                                                 |
+-----------------------------------------------------------------------------------------------------------------------+
```

PHASE DESCRIPTORS

STEP NO. 1 no. of subincrements 1

	LEFT WALL	RIGHT WALL
Y	10.00	-0.9990E+30
Z-PC	343.0	0.000
Z-EXCAVATION	343.0	0.000
Z-WATER_TABLE	337.5	-0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL	0.000	0.000
ZQ	0.000	0.000
DZW_OF_THE_WATER_TABLE	-0.6605E-01	0.000
QS_ON_THE_EXCAVATION_SIDE	0.000	0.000
ZQS	0.000	-0.9990E+30
ZCUT	0.000	0.000
BALANCE LEVEL FOR PORE PRESSURES	324.0	324.0
WATER_BEHAVIOUR_FLAG (LINING OPT)	0.000	0.000
PORE_UPDATE_FLAG	0.000	0.000
PORE_TAB. _FLAG (gt.0= use tabs)	0.000	0.000
lateral thrusts reduction elevatio	0.000	0.000
Downhill reduction factor for effe	0.000	0.000
Downhill reduction factor for pore	0.000	0.000
Uphill reduction factor for effect	0.000	0.000
Uphill reduction factor for pore p	0.000	0.000
SEISMIC HORIZONTAL ACCEL. Kh [g]	0.000	0.000
UPHILL VERTICAL ACCEL. Kv_uh [g]	0.000	0.000
DOWNHILL VERTICAL ACCEL.Kv_dh [g]	0.000	0.000
UPHILL BETA ANGLE (SLOPE) [deg]	0.000	0.000
UPHILL DELTA/PHI RATIO	0.000	0.000
DOWNHILL BETA ANGLE (SLOPE) [deg]	0.000	0.000
DOWNHILL DELTA/PHI RATIO	0.000	0.000
DYN.WATER BEHAVIOUR	0.000	0.000
Excess pore pressure RATIO Ru	0.000	0.000
SEISMIC PRESSURE LOWER VALUE	0.000	0.000
SEISMIC PRESSURE UPPER VALUE	0.000	0.000
SEISMIC PRESSURE LOWER LEVEL	0.000	0.000
SEISMIC PRESSURE UPPER LEVEL	0.000	0.000

==========end of step 1

STEP NO. 2 no. of subincrements 1

	LEFT WALL	RIGHT WALL
Y	10.00	-0.9990E+30
Z-PC	339.0	0.000
Z-EXCAVATION	339.0	0.000
Z-WATER_TABLE	337.5	-0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL	0.000	0.000
ZQ	0.000	0.000
DZW_OF_THE_WATER_TABLE	-0.3933E-01	0.000
QS_ON_THE_EXCAVATION_SIDE	0.000	0.000
ZQS	0.000	-0.9990E+30
ZCUT	0.000	0.000
BALANCE LEVEL FOR PORE PRESSURES	324.0	324.0
WATER_BEHAVIOUR_FLAG (LINING OPT)	0.000	0.000
PORE_UPDATE_FLAG	0.000	0.000
PORE_TAB. _FLAG (gt.0= use tabs)	0.000	0.000
lateral thrusts reduction elevatio	0.000	0.000
Downhill reduction factor for effe	0.000	0.000
Downhill reduction factor for pore	0.000	0.000
Uphill reduction factor for effect	0.000	0.000
Uphill reduction factor for pore p	0.000	0.000
SEISMIC HORIZONTAL ACCEL. Kh [g]	0.000	0.000
UPHILL VERTICAL ACCEL. Kv_uh [g]	0.000	0.000
DOWNHILL VERTICAL ACCEL.Kv_dh [g]	0.000	0.000
UPHILL BETA ANGLE (SLOPE) [deg]	0.000	0.000
UPHILL DELTA/PHI RATIO	0.000	0.000
DOWNHILL BETA ANGLE (SLOPE) [deg]	0.000	0.000
DOWNHILL DELTA/PHI RATIO	0.000	0.000
DYN.WATER BEHAVIOUR	0.000	0.000
Excess pore pressure RATIO Ru	0.000	0.000
SEISMIC PRESSURE LOWER VALUE	0.000	0.000
SEISMIC PRESSURE UPPER VALUE	0.000	0.000
SEISMIC PRESSURE LOWER LEVEL	0.000	0.000
SEISMIC PRESSURE UPPER LEVEL	0.000	0.000

==========end of step 2

STEP NO. 3 no. of subincrements 1

	LEFT WALL	RIGHT WALL
Y	10.00	-0.9990E+30

Z-PC	339.0	0.000
Z-EXCAVATION	333.0	0.000
Z-WATER_TABLE	337.5	-0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL	0.000	0.000
ZQ	0.000	0.000
DZW_OF_THE_WATER_TABLE	4.973	0.000
QS_ON_THE_EXCAVATION_SIDE	0.000	0.000
ZQS	0.000	-0.9990E+30
ZCUT	0.000	0.000
BALANCE LEVEL FOR PORE PRESSURES	324.0	324.0
WATER_BEHAVIOUR_FLAG (LINING OPT)	0.000	0.000
PORE_UPDATE_FLAG	0.000	0.000
PORE_TAB. _FLAG (gt.0= use tabs)	0.000	0.000
lateral thrusts reduction elevatio	0.000	0.000
Downhill reduction factor for effe	0.000	0.000
Downhill reduction factor for pore	0.000	0.000
Uphill reduction factor for effect	0.000	0.000
Uphill reduction factor for pore p	0.000	0.000
SEISMIC HORIZONTAL ACCEL. Kh [g]	0.000	0.000
UPHILL VERTICAL ACCEL. Kv_uh [g]	0.000	0.000
DOWNHILL VERTICAL ACCEL.Kv_dh [g]	0.000	0.000
UPHILL BETA ANGLE (SLOPE) [deg]	0.000	0.000
UPHILL DELTA/PHI RATIO	0.000	0.000
DOWNHILL BETA ANGLE (SLOPE) [deg]	0.000	0.000
DOWNHILL DELTA/PHI RATIO	0.000	0.000
DYN.WATER BEHAVIOUR	0.000	0.000
Excess pore pressure RATIO Ru	0.000	0.000
SEISMIC PRESSURE LOWER VALUE	0.000	0.000
SEISMIC PRESSURE UPPER VALUE	0.000	0.000
SEISMIC PRESSURE LOWER LEVEL	0.000	0.000
SEISMIC PRESSURE UPPER LEVEL	0.000	0.000

==========end of step   3

STEP NO.   4 no. of subincrements   1

	LEFT WALL	RIGHT WALL
Y	10.00	-0.9990E+30
Z-PC	339.0	0.000
Z-EXCAVATION	333.0	0.000
Z-WATER_TABLE	337.5	-0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL	0.000	0.000
ZQ	0.000	0.000
DZW_OF_THE_WATER_TABLE	4.973	0.000
QS_ON_THE_EXCAVATION_SIDE	0.000	0.000
ZQS	0.000	-0.9990E+30
ZCUT	0.000	0.000
BALANCE LEVEL FOR PORE PRESSURES	324.0	324.0
WATER_BEHAVIOUR_FLAG (LINING OPT)	0.000	0.000
PORE_UPDATE_FLAG	0.000	0.000
PORE_TAB. _FLAG (gt.0= use tabs)	0.000	0.000
lateral thrusts reduction elevatio	0.000	0.000
Downhill reduction factor for effe	0.000	0.000
Downhill reduction factor for pore	0.000	0.000
Uphill reduction factor for effect	0.000	0.000
Uphill reduction factor for pore p	0.000	0.000
SEISMIC HORIZONTAL ACCEL. Kh [g]	0.000	0.000
UPHILL VERTICAL ACCEL. Kv_uh [g]	0.000	0.000
DOWNHILL VERTICAL ACCEL.Kv_dh [g]	0.000	0.000
UPHILL BETA ANGLE (SLOPE) [deg]	0.000	0.000
UPHILL DELTA/PHI RATIO	0.000	0.000
DOWNHILL BETA ANGLE (SLOPE) [deg]	0.000	0.000
DOWNHILL DELTA/PHI RATIO	0.000	0.000
DYN.WATER BEHAVIOUR	0.000	0.000
Excess pore pressure RATIO Ru	0.000	0.000
SEISMIC PRESSURE LOWER VALUE	0.000	0.000
SEISMIC PRESSURE UPPER VALUE	0.000	0.000
SEISMIC PRESSURE LOWER LEVEL	0.000	0.000
SEISMIC PRESSURE UPPER LEVEL	0.000	0.000

==========end of step   4

 LEFT-HAND WALL

 LOWER LEVEL   324.00000
 UPPER LEVEL   339.00000

 RIGHT-HAND WALL

 LOWER LEVEL   324.00000
 UPPER LEVEL   339.00000

 ELEMENT GROUPS BACKUP AREA CAN STAY IN CORE AT
 POSITION   5556

 NO. OF D.P.W FOR THIS AREA   11615
 MAX NO. OF D.P.W. AVAILABLE   81920

```
 ** MAX NO OF ITERATIONS SET TO          80

ITER     0 RNORM = 0.000     RMNORM= 0.000
           RINORM=0.1526E+06 RIMNOR= 0.000
           RENORM=0.4913E-01 REMNOR= 0.000     RATIO =0.5675E-03 TOLER =0.1000E-03  NOT CONVERGED
           RFMAX = 51.81     RMMAX = 0.000
           RTSMAL=0.1000E-03 RMSMAL= 0.000
           RDT   =0.1526E+06 RDR   = 0.000
           RATIOT=0.5675E-03 RATIOR= 0.000
           MAX UN= 0.000     IEQ=   152 NODE     76 DOF   2   X-ROT. F
           MIN UN=-.6510E-01 IEQ=    17 NODE      9 DOF   1  Y-DISPL.F
           NO. OF CONTACT CONSTRAINT VIOLATIONS     0


ITER     2 RNORM = 0.000     RMNORM= 0.000
           RINORM=0.1526E+06 RIMNOR= 0.000
           RENORM=0.9466E-27 REMNOR= 0.000     RATIO =0.7877E-16 TOLER =0.1000E-03      CONVERGED !
           RFMAX = 51.81     RMMAX = 0.000
           RTSMAL=0.1000E-03 RMSMAL= 0.000
           RDT   =0.1526E+06 RDR   = 0.000
           RATIOT=0.7877E-16 RATIOR= 0.000
           MAX UN=0.1421E-13 IEQ=    89 NODE     45 DOF   1  Y-DISPL.F
           MIN UN=-.1421E-13 IEQ=   151 NODE     76 DOF   1  Y-DISPL.F
           NO. OF CONTACT CONSTRAINT VIOLATIONS     0
```

```
+-----------------------------------------------------------------------------------------------------------------------+
|                  PARATIEPLUS(TM)   NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*             |
|                                                                                                                       |
|                                                ParatiePlus                                                            |
|                                  Exe Time :28 January 2022   16:22:49                                                 |
+-----------------------------------------------------------------------------------------------------------------------+
New Project
SOLUTION REACHED USING     2 ITERATIONS ON   80

P R I N T   O U T   F O R   T I M E   S T E P   1     ( AT TIME   1.000     ) SUBINCREMENT 00001/00001

PRINT OUT OF ACTIVE COMPONENTS (FIXED NODES ARE NOT PRINTED OUT)

          Y-DISPL.F        X-ROT. F
            02               04
    9  -3.0345875E-06    0.000000
   10  -2.9491050E-06    0.000000
   11  -2.8636224E-06    0.000000
   12  -2.7781399E-06    0.000000
   13  -2.6926574E-06    0.000000
   14  -2.6071321E-06    0.000000
   15  -2.5216495E-06    0.000000
   16  -2.4361670E-06    0.000000
   17  -2.3506844E-06    0.000000
   18  -2.2652019E-06    0.000000
   19  -2.1797194E-06    0.000000
   20  -2.0942368E-06    0.000000
   21  -3.3929547E-07    0.000000
   22  -3.2484953E-07    0.000000
   23  -3.1041081E-07    0.000000
   24  -2.9597209E-07    0.000000
   25  -2.8153337E-07    0.000000
   26  -2.6709465E-07    0.000000
   27  -2.5265593E-07    0.000000
   28  -2.3821721E-07    0.000000
   29  -2.2377849E-07    0.000000
   30  -2.0933256E-07    0.000000
   31  -1.9489384E-07    0.000000
   32  -1.8045512E-07    0.000000
   33  -1.6601640E-07    0.000000
   34  -1.5157768E-07    0.000000
   35  -1.3713896E-07    0.000000
   36  -1.2270024E-07    0.000000
   37  -1.0826152E-07    0.000000
   38  -9.3815580E-08    0.000000
   39  -7.9376861E-08    0.000000
   40  -6.4938141E-08    0.000000
   41  -1.1624659E-07    0.000000
   42  -1.1292502E-07    0.000000
   43  -1.0960345E-07    0.000000
   44  -1.0628189E-07    0.000000
   45  -1.0296032E-07    0.000000
   46  -9.9638748E-08    0.000000
   47  -9.6315519E-08    0.000000
   48  -9.2993951E-08    0.000000
   49  -8.9672382E-08    0.000000
   50  -8.6350814E-08    0.000000
   51  -8.3029245E-08    0.000000
   52  -7.9707677E-08    0.000000
   53  -7.6386109E-08    0.000000
   54  -7.3064540E-08    0.000000
   55  -6.9741311E-08    0.000000
   56  -6.6419743E-08    0.000000
   57  -6.3098174E-08    0.000000
   58  -5.9776606E-08    0.000000
   59  -5.6455037E-08    0.000000
   60  -5.3133469E-08    0.000000
   61  -4.9811901E-08    0.000000
   62  -4.6490332E-08    0.000000
   63  -4.3167103E-08    0.000000
   64  -3.9845535E-08    0.000000
   65  -3.6523966E-08    0.000000
   66  -3.3202398E-08    0.000000
   67  -2.9880829E-08    0.000000
   68  -2.6559261E-08    0.000000
   69  -2.3237693E-08    0.000000
   70  -1.9916124E-08    0.000000
   71  -1.6592895E-08    0.000000
   72  -1.3271327E-08    0.000000
   73  -9.9497582E-09    0.000000
   74  -6.6281898E-09    0.000000
   75  -3.3066213E-09    0.000000
```

```
+-----------------------------------------------------------------------------------------------------------------------------+
|                   PARATIEPLUS(TM)   NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*                  |
|                                                                                                                             |
|                                                ParatiePlus                                                                  |
|                                    Exe Time :28 January 2022   16:22:49                                                     |
+-----------------------------------------------------------------------------------------------------------------------------+
New Project


S T R E S S   R E S U L T S   F O R   G R O U P   N O.   1

0_L                                                    :
ELEMENT TYPE    5 NO.OF ELEMENTS. IN THIS GROUP   76
C U R R E N T   T I M E   I S      1.0000 SUBINCREMENT 00001/00001

 HARDENING 2D SOIL ELEMENT

 ****** TOTAL STRESS FORMULATION *****

  EL *   FORCE     DISPL-Y  VERTICAL-P  HORIZON.-P     MAX-V-P     MAX-H-P          STATE   STIFFNESS Z-LEVEL      PORE       E FAC-
TOR    UFACTOR       Peq          Su_a        Su_p        Cohe_a      Cohe_p     LAYER                                ZFO         QS
QSL          ZD          ZPL          Kz
 ------------------------------------------------------------------------------------------------------------------------------
-----------------------------------------------------------------------------------------------------------------------------
-----------------------------------------------
   1 D   3.800       0.000       76.00       38.00       76.00       38.00            V-C  3.1804E+04   339.0       0.000
1.000       1.000       38.00       0.000       0.000       0.000       0.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   2 D   7.980       0.000       79.80       39.90       79.80       39.90            V-C  3.1804E+04   338.8       0.000
1.000       1.000       39.90       0.000       0.000       0.000       0.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   3 D   8.360       0.000       83.60       41.80       83.60       41.80            V-C  3.1804E+04   338.6       0.000
1.000       1.000       41.80       0.000       0.000       0.000       0.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   4 D   8.740       0.000       87.40       43.70       87.40       43.70            V-C  3.1804E+04   338.4       0.000
1.000       1.000       43.70       0.000       0.000       0.000       0.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   5 D   9.120       0.000       91.20       45.60       91.20       45.60            V-C  3.1804E+04   338.2       0.000
1.000       1.000       45.60       0.000       0.000       0.000       0.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   6 D   9.500       0.000       95.00       47.50       95.00       47.50            V-C  3.1804E+04   338.0       0.000
1.000       1.000       47.50       0.000       0.000       0.000       0.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   7 D   9.880       0.000       98.80       49.40       98.80       49.40            V-C  3.1804E+04   337.8       0.000
1.000       1.000       49.40       0.000       0.000       0.000       0.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   8 D   10.26       0.000       102.6       51.30       102.6       51.30            V-C  3.1804E+04   337.6       0.000
1.000       1.000       51.30       0.000       0.000       0.000       0.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   9 D   10.73      3.0346E-06   105.7       52.95       105.7       52.95            V-C  3.1804E+04   337.4       0.7042
1.000       1.000       53.65       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  10 D   11.31      2.9491E-06   107.5       53.84       107.5       53.84            V-C  3.1804E+04   337.2       2.713
1.000       1.000       56.55       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  11 D   11.89      2.8636E-06   109.3       54.73       109.3       54.73            V-C  3.1804E+04   337.0       4.723
1.000       1.000       59.45       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  12 D   12.47      2.7781E-06   111.1       55.62       111.1       55.62            V-C  3.1804E+04   336.8       6.732
1.000       1.000       62.36       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  13 D   13.05      2.6927E-06   112.9       56.52       112.9       56.52            V-C  3.1804E+04   336.6       8.741
1.000       1.000       65.26       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  14 D   13.63      2.6071E-06   114.7       57.41       114.7       57.41            V-C  3.1804E+04   336.4       10.75
1.000       1.000       68.16       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  15 D   14.21      2.5216E-06   116.4       58.30       116.4       58.30            V-C  3.1804E+04   336.2       12.76
1.000       1.000       71.06       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  16 D   14.79      2.4362E-06   118.2       59.19       118.2       59.19            V-C  3.1804E+04   336.0       14.77
1.000       1.000       73.96       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  17 D   15.37      2.3507E-06   120.0       60.09       120.0       60.09            V-C  3.1804E+04   335.8       16.78
1.000       1.000       76.87       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  18 D   15.95      2.2652E-06   121.8       60.98       121.8       60.98            V-C  3.1804E+04   335.6       18.79
1.000       1.000       79.77       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  19 D   16.53      2.1797E-06   123.6       61.87       123.6       61.87            V-C  3.1804E+04   335.4       20.80
1.000       1.000       82.67       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  20 D   17.11      2.0942E-06   125.4       62.77       125.4       62.77            V-C  3.1804E+04   335.2       22.81
1.000       1.000       85.57       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  21 D   19.27      3.3930E-07   127.2       71.53       127.2       71.53            V-C  1.4636E+05   335.0       24.82
1.000       1.000       96.34       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  22 D   19.89      3.2485E-07   129.2       72.65       129.2       72.65            V-C  1.4636E+05   334.8       26.83
```

```
1.000       1.000       99.47       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  23 D   20.52      3.1041E-07   131.2       73.76       131.2       73.76           V-C  1.4636E+05   334.6       28.83
1.000       1.000       102.6       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  24 D   21.14      2.9597E-07   133.2       74.88       133.2       74.88           V-C  1.4636E+05   334.4       30.84
1.000       1.000       105.7       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  25 D   21.77      2.8153E-07   135.2       76.00       135.2       76.00           V-C  1.4636E+05   334.2       32.85
1.000       1.000       108.9       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  26 D   22.40      2.6709E-07   137.1       77.11       137.1       77.11           V-C  1.4636E+05   334.0       34.86
1.000       1.000       112.0       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  27 D   23.02      2.5266E-07   139.1       78.23       139.1       78.23           V-C  1.4636E+05   333.8       36.87
1.000       1.000       115.1       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  28 D   23.65      2.3822E-07   141.1       79.35       141.1       79.35           V-C  1.4636E+05   333.6       38.88
1.000       1.000       118.2       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  29 D   24.27      2.2378E-07   143.1       80.46       143.1       80.46           V-C  1.4636E+05   333.4       40.89
1.000       1.000       121.4       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  30 D   24.90      2.0933E-07   145.1       81.58       145.1       81.58           V-C  1.4636E+05   333.2       42.90
1.000       1.000       124.5       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  31 D   25.52      1.9489E-07   147.1       82.70       147.1       82.70           V-C  1.4636E+05   333.0       44.91
1.000       1.000       127.6       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  32 D   26.15      1.8046E-07   149.1       83.81       149.1       83.81           V-C  1.4636E+05   332.8       46.92
1.000       1.000       130.7       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  33 D   26.77      1.6602E-07   151.1       84.93       151.1       84.93           V-C  1.4636E+05   332.6       48.93
1.000       1.000       133.9       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  34 D   27.40      1.5158E-07   153.1       86.05       153.1       86.05           V-C  1.4636E+05   332.4       50.94
1.000       1.000       137.0       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  35 D   28.02      1.3714E-07   155.1       87.17       155.1       87.17           V-C  1.4636E+05   332.2       52.95
1.000       1.000       140.1       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  36 D   28.65      1.2270E-07   157.1       88.28       157.1       88.28           V-C  1.4636E+05   332.0       54.95
1.000       1.000       143.2       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  37 D   29.27      1.0826E-07   159.0       89.40       159.0       89.40           V-C  1.4636E+05   331.8       56.96
1.000       1.000       146.4       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  38 D   29.90      9.3816E-08   161.0       90.52       161.0       90.52           V-C  1.4636E+05   331.6       58.97
1.000       1.000       149.5       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  39 D   30.52      7.9377E-08   163.0       91.63       163.0       91.63           V-C  1.4636E+05   331.4       60.98
1.000       1.000       152.6       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  40 D   31.15      6.4938E-08   165.0       92.75       165.0       92.75           V-C  1.4636E+05   331.2       62.99
1.000       1.000       155.7       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  41 D   29.70      1.1625E-07   167.0       83.51       167.0       83.51           V-C  7.4376E+04   331.0       65.00
1.000       1.000       148.5       0.000       0.000       40.00       40.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  42 D   30.35      1.1293E-07   169.5       84.76       169.5       84.76           V-C  7.4376E+04   330.8       67.00
1.000       1.000       151.8       0.000       0.000       40.00       40.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  43 D   31.00      1.0960E-07   172.0       86.01       172.0       86.01           V-C  7.4376E+04   330.6       69.00
1.000       1.000       155.0       0.000       0.000       40.00       40.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  44 D   31.65      1.0628E-07   174.5       87.26       174.5       87.26           V-C  7.4376E+04   330.4       71.00
1.000       1.000       158.3       0.000       0.000       40.00       40.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  45 D   32.30      1.0296E-07   177.0       88.51       177.0       88.51           V-C  7.4376E+04   330.2       73.01
1.000       1.000       161.5       0.000       0.000       40.00       40.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  46 D   32.95      9.9639E-08   179.5       89.76       179.5       89.76           V-C  7.4376E+04   330.0       75.01
1.000       1.000       164.8       0.000       0.000       40.00       40.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  47 D   33.60      9.6316E-08   182.0       91.01       182.0       91.01           V-C  7.4376E+04   329.8       77.01
1.000       1.000       168.0       0.000       0.000       40.00       40.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  48 D   34.25      9.2994E-08   184.5       92.26       184.5       92.26           V-C  7.4376E+04   329.6       79.01
1.000       1.000       171.3       0.000       0.000       40.00       40.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  49 D   34.90      8.9672E-08   187.0       93.51       187.0       93.51           V-C  7.4376E+04   329.4       81.01
1.000       1.000       174.5       0.000       0.000       40.00       40.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  50 D   35.55      8.6351E-08   189.5       94.76       189.5       94.76           V-C  7.4376E+04   329.2       83.01
1.000       1.000       177.8       0.000       0.000       40.00       40.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  51 D   36.20      8.3029E-08   192.0       96.01       192.0       96.01           V-C  7.4376E+04   329.0       85.01
1.000       1.000       181.0       0.000       0.000       40.00       40.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  52 D   36.85      7.9708E-08   194.5       97.26       194.5       97.26           V-C  7.4376E+04   328.8       87.01
1.000       1.000       184.3       0.000       0.000       40.00       40.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
```

53 D	37.50	7.6386E-08	197.0	98.51	197.0	98.51	V-C	7.4376E+04	328.6	89.01
1.000	1.000	187.5	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
54 D	38.15	7.3065E-08	199.5	99.75	199.5	99.75	V-C	7.4376E+04	328.4	91.01
1.000	1.000	190.8	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
55 D	38.80	6.9741E-08	202.0	101.0	202.0	101.0	V-C	7.4376E+04	328.2	93.02
1.000	1.000	194.0	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
56 D	39.45	6.6420E-08	204.5	102.3	204.5	102.3	V-C	7.4376E+04	328.0	95.02
1.000	1.000	197.3	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
57 D	40.10	6.3098E-08	207.0	103.5	207.0	103.5	V-C	7.4376E+04	327.8	97.02
1.000	1.000	200.5	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
58 D	40.75	5.9777E-08	209.5	104.8	209.5	104.8	V-C	7.4376E+04	327.6	99.02
1.000	1.000	203.8	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
59 D	41.40	5.6455E-08	212.0	106.0	212.0	106.0	V-C	7.4376E+04	327.4	101.0
1.000	1.000	207.0	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
60 D	42.05	5.3133E-08	214.5	107.3	214.5	107.3	V-C	7.4376E+04	327.2	103.0
1.000	1.000	210.3	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
61 D	42.70	4.9812E-08	217.0	108.5	217.0	108.5	V-C	7.4376E+04	327.0	105.0
1.000	1.000	213.5	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
62 D	43.35	4.6490E-08	219.5	109.7	219.5	109.7	V-C	7.4376E+04	326.8	107.0
1.000	1.000	216.8	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
63 D	44.00	4.3167E-08	222.0	111.0	222.0	111.0	V-C	7.4376E+04	326.6	109.0
1.000	1.000	220.0	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
64 D	44.65	3.9846E-08	224.5	112.2	224.5	112.2	V-C	7.4376E+04	326.4	111.0
1.000	1.000	223.3	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
65 D	45.31	3.6524E-08	227.0	113.5	227.0	113.5	V-C	7.4376E+04	326.2	113.0
1.000	1.000	226.5	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
66 D	45.96	3.3202E-08	229.5	114.7	229.5	114.7	V-C	7.4376E+04	326.0	115.0
1.000	1.000	229.8	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
67 D	46.61	2.9881E-08	232.0	116.0	232.0	116.0	V-C	7.4376E+04	325.8	117.0
1.000	1.000	233.0	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
68 D	47.26	2.6559E-08	234.5	117.2	234.5	117.2	V-C	7.4376E+04	325.6	119.0
1.000	1.000	236.3	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
69 D	47.91	2.3238E-08	237.0	118.5	237.0	118.5	V-C	7.4376E+04	325.4	121.0
1.000	1.000	239.5	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
70 D	48.56	1.9916E-08	239.5	119.7	239.5	119.7	V-C	7.4376E+04	325.2	123.0
1.000	1.000	242.8	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
71 D	49.21	1.6593E-08	242.0	121.0	242.0	121.0	V-C	7.4376E+04	325.0	125.0
1.000	1.000	246.0	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
72 D	49.86	1.3271E-08	244.5	122.2	244.5	122.2	V-C	7.4376E+04	324.8	127.0
1.000	1.000	249.3	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
73 D	50.51	9.9498E-09	247.0	123.5	247.0	123.5	V-C	7.4376E+04	324.6	129.0
1.000	1.000	252.5	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
74 D	51.16	6.6282E-09	249.5	124.7	249.5	124.7	V-C	7.4376E+04	324.4	131.0
1.000	1.000	255.8	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
75 D	51.81	3.3066E-09	252.0	126.0	252.0	126.0	V-C	7.4376E+04	324.2	133.0
1.000	1.000	259.0	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
76 D	26.23	1.0036E-18	254.5	127.2	254.5	127.2	V-C	7.4376E+04	324.0	135.0
1.000	1.000	262.3	0.000	0.000	0.000	0.000	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						

```
+-----------------------------------------------------------------------------------------------------------------------------+
|                   PARATIEPLUS(TM)   NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*                  |
|                                                                                                                             |
|                                                ParatiePlus                                                                  |
|                                    Exe Time :28 January 2022   16:22:49                                                     |
+-----------------------------------------------------------------------------------------------------------------------------+
New Project


S T R E S S   R E S U L T S   F O R   G R O U P   N O.   2

0_R                                                    :
ELEMENT TYPE    5 NO.OF ELEMENTS. IN THIS GROUP   76
C U R R E N T   T I M E   I S      1.0000 SUBINCREMENT 00001/00001

 HARDENING 2D SOIL ELEMENT

 ****** TOTAL STRESS FORMULATION *****

  EL *   FORCE      DISPL-Y  VERTICAL-P  HORIZON.-P     MAX-V-P     MAX-H-P          STATE   STIFFNESS Z-LEVEL      PORE       E FAC-
TOR    UFACTOR       Peq          Su_a        Su_p        Cohe_a      Cohe_p     LAYER                              ZFO         QS
QSL          ZD          ZPL          Kz
 ------------------------------------------------------------------------------------------------------------------------------
-----------------------------------------------------------------------------------------------------------------------------
-----------------------------------------------
   1 D   3.800       0.000       76.00       38.00       76.00       38.00           V-C  2.5154E+04   339.0       0.000
1.000       1.000       38.00       0.000       0.000       0.000       0.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   2 D   7.980       0.000       79.80       39.90       79.80       39.90           V-C  2.5154E+04   338.8       0.000
1.000       1.000       39.90       0.000       0.000       0.000       0.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   3 D   8.360       0.000       83.60       41.80       83.60       41.80           V-C  2.5154E+04   338.6       0.000
1.000       1.000       41.80       0.000       0.000       0.000       0.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   4 D   8.740       0.000       87.40       43.70       87.40       43.70           V-C  2.5154E+04   338.4       0.000
1.000       1.000       43.70       0.000       0.000       0.000       0.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   5 D   9.120       0.000       91.20       45.60       91.20       45.60           V-C  2.5154E+04   338.2       0.000
1.000       1.000       45.60       0.000       0.000       0.000       0.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   6 D   9.500       0.000       95.00       47.50       95.00       47.50           V-C  2.5154E+04   338.0       0.000
1.000       1.000       47.50       0.000       0.000       0.000       0.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   7 D   9.880       0.000       98.80       49.40       98.80       49.40           V-C  2.5154E+04   337.8       0.000
1.000       1.000       49.40       0.000       0.000       0.000       0.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   8 D   10.26       0.000       102.6       51.30       102.6       51.30           V-C  2.5154E+04   337.6       0.000
1.000       1.000       51.30       0.000       0.000       0.000       0.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   9 D   10.73     -3.0346E-06   105.0       52.29       105.0       52.52          UL-RL  7.5461E+04   337.4       1.355
1.000       1.000       53.65       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  10 D   11.31     -2.9491E-06   106.9       53.21       106.9       53.43          UL-RL  7.5461E+04   337.2       3.346
1.000       1.000       56.55       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  11 D   11.89     -2.8636E-06   108.7       54.12       108.7       54.33          UL-RL  7.5461E+04   337.0       5.337
1.000       1.000       59.45       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  12 D   12.47     -2.7781E-06   110.5       55.03       110.5       55.24          UL-RL  7.5461E+04   336.8       7.328
1.000       1.000       62.36       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  13 D   13.05     -2.6927E-06   112.3       55.94       112.3       56.14          UL-RL  7.5461E+04   336.6       9.319
1.000       1.000       65.26       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  14 D   13.63     -2.6071E-06   114.1       56.85       114.1       57.05          UL-RL  7.5461E+04   336.4       11.31
1.000       1.000       68.16       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  15 D   14.21     -2.5216E-06   115.9       57.76       115.9       57.95          UL-RL  7.5461E+04   336.2       13.30
1.000       1.000       71.06       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  16 D   14.79     -2.4362E-06   117.7       58.67       117.7       58.86          UL-RL  7.5461E+04   336.0       15.29
1.000       1.000       73.96       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  17 D   15.37     -2.3507E-06   119.5       59.58       119.5       59.76          UL-RL  7.5461E+04   335.8       17.28
1.000       1.000       76.87       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  18 D   15.95     -2.2652E-06   121.3       60.49       121.3       60.67          UL-RL  7.5461E+04   335.6       19.27
1.000       1.000       79.77       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  19 D   16.53     -2.1797E-06   123.1       61.41       123.1       61.57          UL-RL  7.5461E+04   335.4       21.26
1.000       1.000       82.67       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  20 D   17.11     -2.0942E-06   124.9       62.32       124.9       62.47          UL-RL  7.5461E+04   335.2       23.26
1.000       1.000       85.57       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  21 D   19.27     -3.3930E-07   126.8       71.10       126.8       71.24          UL-RL  4.0994E+05   335.0       25.25
1.000       1.000       96.34       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  22 D   19.89     -3.2485E-07   128.8       72.23       128.8       72.37          UL-RL  4.0994E+05   334.8       27.24
```

```
1.000       1.000       99.47       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  23 D   20.52     -3.1041E-07   130.8       73.37       130.8       73.50          UL-RL  4.0994E+05   334.6       29.23
1.000       1.000       102.6       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  24 D   21.14     -2.9597E-07   132.8       74.50       132.8       74.63          UL-RL  4.0994E+05   334.4       31.22
1.000       1.000       105.7       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  25 D   21.77     -2.8153E-07   134.8       75.64       134.8       75.76          UL-RL  4.0994E+05   334.2       33.21
1.000       1.000       108.9       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  26 D   22.40     -2.6709E-07   136.8       76.77       136.8       76.88          UL-RL  4.0994E+05   334.0       35.20
1.000       1.000       112.0       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  27 D   23.02     -2.5266E-07   138.8       77.91       138.8       78.01          UL-RL  4.0994E+05   333.8       37.19
1.000       1.000       115.1       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  28 D   23.65     -2.3822E-07   140.8       79.04       140.8       79.14          UL-RL  4.0994E+05   333.6       39.18
1.000       1.000       118.2       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  29 D   24.27     -2.2378E-07   142.8       80.18       142.8       80.27          UL-RL  4.0994E+05   333.4       41.17
1.000       1.000       121.4       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  30 D   24.90     -2.0933E-07   144.8       81.32       144.8       81.40          UL-RL  4.0994E+05   333.2       43.17
1.000       1.000       124.5       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  31 D   25.52     -1.9489E-07   146.9       82.45       146.9       82.53          UL-RL  4.0994E+05   333.0       45.16
1.000       1.000       127.6       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  32 D   26.15     -1.8046E-07   148.9       83.59       148.9       83.66          UL-RL  4.0994E+05   332.8       47.15
1.000       1.000       130.7       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  33 D   26.77     -1.6602E-07   150.9       84.72       150.9       84.79          UL-RL  4.0994E+05   332.6       49.14
1.000       1.000       133.9       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  34 D   27.40     -1.5158E-07   152.9       85.86       152.9       85.92          UL-RL  4.0994E+05   332.4       51.13
1.000       1.000       137.0       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  35 D   28.02     -1.3714E-07   154.9       86.99       154.9       87.05          UL-RL  4.0994E+05   332.2       53.12
1.000       1.000       140.1       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  36 D   28.65     -1.2270E-07   156.9       88.13       156.9       88.18          UL-RL  4.0994E+05   332.0       55.11
1.000       1.000       143.2       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  37 D   29.27     -1.0826E-07   158.9       89.26       158.9       89.31          UL-RL  4.0994E+05   331.8       57.10
1.000       1.000       146.4       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  38 D   29.90     -9.3816E-08   160.9       90.40       160.9       90.44          UL-RL  4.0994E+05   331.6       59.09
1.000       1.000       149.5       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  39 D   30.52     -7.9377E-08   162.9       91.53       162.9       91.56          UL-RL  4.0994E+05   331.4       61.08
1.000       1.000       152.6       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  40 D   31.15     -6.4938E-08   164.9       92.67       164.9       92.69          UL-RL  4.0994E+05   331.2       63.07
1.000       1.000       155.7       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  41 D   29.70     -1.1625E-07   166.9       83.45       166.9       83.47          UL-RL  2.0168E+05   331.0       65.07
1.000       1.000       148.5       0.000       0.000       40.00       40.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  42 D   30.35     -1.1293E-07   169.4       84.70       169.4       84.72          UL-RL  2.0168E+05   330.8       67.06
1.000       1.000       151.8       0.000       0.000       40.00       40.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  43 D   31.00     -1.0960E-07   171.9       85.95       171.9       85.97          UL-RL  2.0168E+05   330.6       69.06
1.000       1.000       155.0       0.000       0.000       40.00       40.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  44 D   31.65     -1.0628E-07   174.4       87.20       174.4       87.22          UL-RL  2.0168E+05   330.4       71.06
1.000       1.000       158.3       0.000       0.000       40.00       40.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  45 D   32.30     -1.0296E-07   176.9       88.45       176.9       88.47          UL-RL  2.0168E+05   330.2       73.06
1.000       1.000       161.5       0.000       0.000       40.00       40.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  46 D   32.95     -9.9639E-08   179.5       89.70       179.5       89.73          UL-RL  2.0168E+05   330.0       75.06
1.000       1.000       164.8       0.000       0.000       40.00       40.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  47 D   33.60     -9.6316E-08   182.0       90.96       182.0       90.98          UL-RL  2.0168E+05   329.8       77.06
1.000       1.000       168.0       0.000       0.000       40.00       40.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  48 D   34.25     -9.2994E-08   184.5       92.21       184.5       92.23          UL-RL  2.0168E+05   329.6       79.06
1.000       1.000       171.3       0.000       0.000       40.00       40.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  49 D   34.90     -8.9672E-08   187.0       93.46       187.0       93.48          UL-RL  2.0168E+05   329.4       81.06
1.000       1.000       174.5       0.000       0.000       40.00       40.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  50 D   35.55     -8.6351E-08   189.5       94.71       189.5       94.73          UL-RL  2.0168E+05   329.2       83.06
1.000       1.000       177.8       0.000       0.000       40.00       40.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  51 D   36.20     -8.3029E-08   192.0       95.96       192.0       95.98          UL-RL  2.0168E+05   329.0       85.06
1.000       1.000       181.0       0.000       0.000       40.00       40.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  52 D   36.85     -7.9708E-08   194.5       97.21       194.5       97.23          UL-RL  2.0168E+05   328.8       87.06
1.000       1.000       184.3       0.000       0.000       40.00       40.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
```

53 D	37.50	-7.6386E-08	197.0	98.46	197.0	98.48	UL-RL	2.0168E+05	328.6	89.06
1.000	1.000	187.5	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
54 D	38.15	-7.3065E-08	199.5	99.71	199.5	99.73	UL-RL	2.0168E+05	328.4	91.05
1.000	1.000	190.8	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
55 D	38.80	-6.9741E-08	202.0	101.0	202.0	101.0	UL-RL	2.0168E+05	328.2	93.05
1.000	1.000	194.0	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
56 D	39.45	-6.6420E-08	204.5	102.2	204.5	102.2	UL-RL	2.0168E+05	328.0	95.05
1.000	1.000	197.3	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
57 D	40.10	-6.3098E-08	207.0	103.5	207.0	103.5	UL-RL	2.0168E+05	327.8	97.05
1.000	1.000	200.5	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
58 D	40.75	-5.9777E-08	209.5	104.7	209.5	104.7	UL-RL	2.0168E+05	327.6	99.05
1.000	1.000	203.8	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
59 D	41.40	-5.6455E-08	212.0	106.0	212.0	106.0	UL-RL	2.0168E+05	327.4	101.1
1.000	1.000	207.0	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
60 D	42.05	-5.3133E-08	214.5	107.2	214.5	107.2	UL-RL	2.0168E+05	327.2	103.1
1.000	1.000	210.3	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
61 D	42.70	-4.9812E-08	217.0	108.5	217.0	108.5	UL-RL	2.0168E+05	327.0	105.0
1.000	1.000	213.5	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
62 D	43.35	-4.6490E-08	219.5	109.7	219.5	109.7	UL-RL	2.0168E+05	326.8	107.0
1.000	1.000	216.8	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
63 D	44.00	-4.3167E-08	222.0	111.0	222.0	111.0	UL-RL	2.0168E+05	326.6	109.0
1.000	1.000	220.0	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
64 D	44.65	-3.9846E-08	224.5	112.2	224.5	112.2	UL-RL	2.0168E+05	326.4	111.0
1.000	1.000	223.3	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
65 D	45.31	-3.6524E-08	227.0	113.5	227.0	113.5	UL-RL	2.0168E+05	326.2	113.0
1.000	1.000	226.5	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
66 D	45.96	-3.3202E-08	229.5	114.7	229.5	114.7	UL-RL	2.0168E+05	326.0	115.0
1.000	1.000	229.8	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
67 D	46.61	-2.9881E-08	232.0	116.0	232.0	116.0	UL-RL	2.0168E+05	325.8	117.0
1.000	1.000	233.0	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
68 D	47.26	-2.6559E-08	234.5	117.2	234.5	117.2	UL-RL	2.0168E+05	325.6	119.0
1.000	1.000	236.3	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
69 D	47.91	-2.3238E-08	237.0	118.5	237.0	118.5	UL-RL	2.0168E+05	325.4	121.0
1.000	1.000	239.5	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
70 D	48.56	-1.9916E-08	239.5	119.7	239.5	119.7	UL-RL	2.0168E+05	325.2	123.0
1.000	1.000	242.8	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
71 D	49.21	-1.6593E-08	242.0	121.0	242.0	121.0	UL-RL	2.0168E+05	325.0	125.0
1.000	1.000	246.0	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
72 D	49.86	-1.3271E-08	244.5	122.2	244.5	122.2	UL-RL	2.0168E+05	324.8	127.0
1.000	1.000	249.3	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
73 D	50.51	-9.9498E-09	247.0	123.5	247.0	123.5	UL-RL	2.0168E+05	324.6	129.0
1.000	1.000	252.5	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
74 D	51.16	-6.6282E-09	249.5	124.7	249.5	124.7	UL-RL	2.0168E+05	324.4	131.0
1.000	1.000	255.8	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
75 D	51.81	-3.3066E-09	252.0	126.0	252.0	126.0	UL-RL	2.0168E+05	324.2	133.0
1.000	1.000	259.0	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
76 D	26.23	-1.0036E-18	254.5	127.2	254.5	127.2	V-C	6.7226E+04	324.0	135.0
1.000	1.000	262.3	0.000	0.000	0.000	0.000	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						

```
+-----------------------------------------------------------------------------------------------------------------------+
|                   PARATIEPLUS(TM)   NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*             |
|                                                                                                                       |
|                                                ParatiePlus                                                            |
|                                 Exe Time :28 January 2022   16:22:49                                                  |
+-----------------------------------------------------------------------------------------------------------------------+
New Project


S T R E S S   R E S U L T S   F O R   G R O U P   N O.   3

Pali1500_253215                                              :
ELEMENT TYPE    2 NO.OF ELEMENTS. IN THIS GROUP   75
C U R R E N T   T I M E   I S      1.0000 SUBINCREMENT 00001/00001

 WALL2D ELEMENT

   EL      TA          TB          MA          MB
-------------------------------------------------

***** NO ONE ELEMENT ACTIVE AT CURRENT STEP *****

ITER     0 RNORM = 0.000     RMNORM= 0.000
           RINORM=0.1166E+06 RIMNOR= 0.000
           RENORM=0.1892E-01 REMNOR= 0.000     RATIO =0.4029E-03 TOLER =0.1000E-03  NOT CONVERGED
           RFMAX = 47.65     RMMAX = 0.000
           RTSMAL=0.1000E-03 RMSMAL= 0.000
           RDT   =0.1166E+06 RDR   = 0.000
           RATIOT=0.4029E-03 RATIOR= 0.000
           MAX UN=0.4135E-01 IEQ=    17 NODE      9 DOF   1  Y-DISPL.F
           MIN UN= 0.000     IEQ=     1 NODE      1 DOF   1  Y-DISPL.F
           NO. OF CONTACT CONSTRAINT VIOLATIONS     0


ITER     2 RNORM = 0.000     RMNORM= 0.000
           RINORM=0.1166E+06 RIMNOR= 0.000
           RENORM=0.4955E-22 REMNOR=0.3750E-24 RATIO =0.2062E-13 TOLER =0.1000E-03      CONVERGED !
           RFMAX = 47.65     RMMAX = 0.000
           RTSMAL=0.1000E-03 RMSMAL= 0.000
           RDT   =0.1166E+06 RDR   = 0.000
           RATIOT=0.2062E-13 RATIOR= 0.000
           MAX UN=0.3016E-11 IEQ=    23 NODE     12 DOF   1  Y-DISPL.F
           MIN UN=-.2989E-11 IEQ=    19 NODE     10 DOF   1  Y-DISPL.F
           NO. OF CONTACT CONSTRAINT VIOLATIONS     0
```

```
+-----------------------------------------------------------------------------------------------------------------------+
|                  PARATIEPLUS(TM)   NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*             |
|                                                                                                                       |
|                                                ParatiePlus                                                            |
|                                  Exe Time :28 January 2022   16:22:49                                                 |
+-----------------------------------------------------------------------------------------------------------------------+
New Project
SOLUTION REACHED USING     2 ITERATIONS ON   80

P R I N T   O U T   F O R   T I M E   S T E P   2     ( AT TIME   2.000     ) SUBINCREMENT 00001/00001

PRINT OUT OF ACTIVE COMPONENTS (FIXED NODES ARE NOT PRINTED OUT)

          Y-DISPL.F        X-ROT. F
            02               04
    1   4.6619220E-07  -1.7013805E-08
    2   4.6278819E-07  -1.7032482E-08
    3   4.5937112E-07  -1.7172482E-08
    4   4.5589996E-07  -1.7601122E-08
    5   4.5230036E-07  -1.8484468E-08
    6   4.4846287E-07  -1.9988230E-08
    7   4.4425102E-07  -2.2274341E-08
    8   4.3949014E-07  -2.5505349E-08
    9  -2.6006123E-06  -2.9841602E-08
   10  -2.5216211E-06  -3.5222041E-08
   11  -2.4437874E-06  -4.1372135E-08
   12  -2.3672388E-06  -4.8030911E-08
   13  -2.2920520E-06  -5.4949827E-08
   14  -2.2182186E-06  -6.1895170E-08
   15  -2.1457941E-06  -6.8633235E-08
   16  -2.0746787E-06  -7.4950236E-08
   17  -2.0047672E-06  -8.0637538E-08
   18  -1.9359133E-06  -8.5494389E-08
   19  -1.8679316E-06  -8.9327248E-08
   20  -1.8005984E-06  -9.1949212E-08
   21  -6.4194597E-08  -9.3179540E-08
   22  -6.8401399E-08  -9.3047047E-08
   23  -7.2462265E-08  -9.1777148E-08
   24  -7.6172582E-08  -8.9573690E-08
   25  -7.9364213E-08  -8.6618897E-08
   26  -8.1903379E-08  -8.3074271E-08
   27  -8.3686608E-08  -7.9081537E-08
   28  -8.4636889E-08  -7.4763811E-08
   29  -8.4700085E-08  -7.0226955E-08
   30  -8.3840965E-08  -6.5558692E-08
   31  -8.2042380E-08  -6.0839550E-08
   32  -7.9300018E-08  -5.6130486E-08
   33  -7.5621295E-08  -5.1483825E-08
   34  -7.1023138E-08  -4.6942603E-08
   35  -6.5530286E-08  -4.2542205E-08
   36  -5.9173925E-08  -3.8311965E-08
   37  -5.1990633E-08  -3.4276728E-08
   38  -4.4017460E-08  -3.0456494E-08
   39  -3.5307810E-08  -2.6875378E-08
   40  -2.5907322E-08  -2.3551508E-08
   41  -8.1616704E-08  -2.0506059E-08
   42  -8.2115645E-08  -1.7745896E-08
   43  -8.2090315E-08  -1.5261577E-08
   44  -8.1594762E-08  -1.3041591E-08
   45  -8.0680561E-08  -1.1072804E-08
   46  -7.9396536E-08  -9.3408582E-09
   47  -7.7787664E-08  -7.8298204E-09
   48  -7.5898322E-08  -6.5254112E-09
   49  -7.3767341E-08  -5.4107433E-09
   50  -7.1431056E-08  -4.4696843E-09
   51  -6.8922586E-08  -3.6862490E-09
   52  -6.6271883E-08  -3.0447683E-09
   53  -6.3505806E-08  -2.5300310E-09
   54  -6.0648232E-08  -2.1273990E-09
   55  -5.7718693E-08  -1.8227711E-09
   56  -5.4738416E-08  -1.6032196E-09
   57  -5.1721675E-08  -1.4561313E-09
   58  -4.8681789E-08  -1.3699026E-09
   59  -4.5629840E-08  -1.3337911E-09
   60  -4.2574852E-08  -1.3379313E-09
   61  -3.9523961E-08  -1.3733421E-09
   62  -3.6482597E-08  -1.4319260E-09
   63  -3.3453148E-08  -1.5065039E-09
   64  -3.0441184E-08  -1.5906500E-09
   65  -2.7446545E-08  -1.6789020E-09
   66  -2.4469571E-08  -1.7666041E-09
   67  -2.1509757E-08  -1.8499252E-09
   68  -1.8565911E-08  -1.9258438E-09
   69  -1.5636316E-08  -1.9921334E-09
   70  -1.2718889E-08  -2.0473497E-09
   71  -9.8098842E-09  -2.0908373E-09
   72  -6.9098540E-09  -2.1226397E-09
   73  -4.0150820E-09  -2.1436226E-09
   74  -1.1235509E-09  -2.1553751E-09
```

```
75   1.7663645E-09  -2.1602315E-09
76   4.6427460E-09  -2.1612692E-09
```

```
+-----------------------------------------------------------------------------------------------------------------------+
|                  PARATIEPLUS(TM)   NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*             |
|                                                                                                                       |
|                                              ParatiePlus                                                              |
|                                  Exe Time :28 January 2022   16:22:49                                                 |
+-----------------------------------------------------------------------------------------------------------------------+
New Project


S T R E S S   R E S U L T S   F O R   G R O U P   N O.   1

0_L                                                    :
ELEMENT TYPE    5 NO.OF ELEMENTS. IN THIS GROUP   76
C U R R E N T   T I M E   I S      2.0000 SUBINCREMENT 00001/00001

 HARDENING 2D SOIL ELEMENT

 ****** TOTAL STRESS FORMULATION *****

  EL *   FORCE      DISPL-Y  VERTICAL-P  HORIZON.-P     MAX-V-P     MAX-H-P          STATE   STIFFNESS Z-LEVEL      PORE       E FAC-
TOR    UFACTOR       Peq          Su_a        Su_p        Cohe_a      Cohe_p     LAYER                                ZFO         QS
QSL          ZD          ZPL          Kz
 ------------------------------------------------------------------------------------------------------------------------------------
------------------------------------------------------------------------------------------------------------------------------------
-----------------------------------------------
   1 D   0.000     -4.6619E-07   0.000       0.000       76.00       38.00          ACTIVE   0.000       339.0       0.000
1.000       1.000       0.000       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   2 D   1.733     -4.6279E-07   3.800       8.663       79.80       39.90          UL-RL  9.5413E+04   338.8       0.000
1.000       1.000       8.663       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   3 D   2.512     -4.5937E-07   7.600       12.56       83.60       41.80          UL-RL  9.5413E+04   338.6       0.000
1.000       1.000       12.56       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   4 D   3.148     -4.5590E-07   11.40       15.74       87.40       43.70          UL-RL  9.5413E+04   338.4       0.000
1.000       1.000       15.74       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   5 D   3.715     -4.5230E-07   15.20       18.57       91.20       45.60          UL-RL  9.5413E+04   338.2       0.000
1.000       1.000       18.57       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   6 D   4.240     -4.4846E-07   19.00       21.20       95.00       47.50          UL-RL  9.5413E+04   338.0       0.000
1.000       1.000       21.20       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   7 D   4.738     -4.4425E-07   22.80       23.69       98.80       49.40          UL-RL  9.5413E+04   337.8       0.000
1.000       1.000       23.69       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   8 D   5.216     -4.3949E-07   26.60       26.08       102.6       51.30          UL-RL  9.5413E+04   337.6       0.000
1.000       1.000       26.08       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   9 D   5.754      2.6006E-06   29.70       28.07       105.7       52.95          UL-RL  9.5413E+04   337.4       0.7029
1.000       1.000       28.77       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  10 D   6.371      2.5216E-06   31.49       29.14       107.5       53.84          UL-RL  9.5413E+04   337.2       2.708
1.000       1.000       31.85       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  11 D   6.984      2.4438E-06   33.29       30.21       109.3       54.73          UL-RL  9.5413E+04   337.0       4.714
1.000       1.000       34.92       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  12 D   7.596      2.3672E-06   35.08       31.26       111.1       55.62          UL-RL  9.5413E+04   336.8       6.719
1.000       1.000       37.98       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  13 D   8.206      2.2921E-06   36.88       32.30       112.9       56.52          UL-RL  9.5413E+04   336.6       8.725
1.000       1.000       41.03       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  14 D   8.814      2.2182E-06   38.67       33.34       114.7       57.41          UL-RL  9.5413E+04   336.4       10.73
1.000       1.000       44.07       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  15 D   9.421      2.1458E-06   40.47       34.37       116.4       58.30          UL-RL  9.5413E+04   336.2       12.74
1.000       1.000       47.10       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  16 D   10.03      2.0747E-06   42.26       35.39       118.2       59.19          UL-RL  9.5413E+04   336.0       14.74
1.000       1.000       50.13       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  17 D   10.63      2.0048E-06   44.06       36.40       120.0       60.09          UL-RL  9.5413E+04   335.8       16.75
1.000       1.000       53.15       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  18 D   11.23      1.9359E-06   45.85       37.41       121.8       60.98          UL-RL  9.5413E+04   335.6       18.75
1.000       1.000       56.16       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  19 D   11.83      1.8679E-06   47.65       38.41       123.6       61.87          UL-RL  9.5413E+04   335.4       20.76
1.000       1.000       59.17       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  20 D   12.43      1.8006E-06   49.44       39.41       125.4       62.77          UL-RL  9.5413E+04   335.2       22.76
1.000       1.000       62.17       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  21 D   14.01      6.4195E-08   51.23       45.30       127.2       71.53          UL-RL  4.3908E+05   335.0       24.77
1.000       1.000       70.07       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  22 D   14.66      6.8401E-08   53.23       46.54       129.2       72.65          UL-RL  4.3908E+05   334.8       26.78
```

1.000	1.000	73.31	0.000	0.000	8.000	8.000	Salt_1270_202756_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
23 D	15.31	7.2462E-08	55.22	47.77	131.2	73.76	UL-RL	4.3908E+05	334.6	28.78	
1.000	1.000	76.55	0.000	0.000	8.000	8.000	Salt_1270_202756_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
24 D	15.96	7.6173E-08	57.22	49.00	133.2	74.88	UL-RL	4.3908E+05	334.4	30.79	
1.000	1.000	79.79	0.000	0.000	8.000	8.000	Salt_1270_202756_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
25 D	16.60	7.9364E-08	59.21	50.23	135.2	76.00	UL-RL	4.3908E+05	334.2	32.79	
1.000	1.000	83.02	0.000	0.000	8.000	8.000	Salt_1270_202756_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
26 D	17.25	8.1903E-08	61.21	51.45	137.1	77.11	UL-RL	4.3908E+05	334.0	34.80	
1.000	1.000	86.25	0.000	0.000	8.000	8.000	Salt_1270_202756_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
27 D	17.89	8.3687E-08	63.20	52.66	139.1	78.23	UL-RL	4.3908E+05	333.8	36.80	
1.000	1.000	89.47	0.000	0.000	8.000	8.000	Salt_1270_202756_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
28 D	18.54	8.4637E-08	65.20	53.88	141.1	79.35	UL-RL	4.3908E+05	333.6	38.81	
1.000	1.000	92.68	0.000	0.000	8.000	8.000	Salt_1270_202756_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
29 D	19.18	8.4700E-08	67.19	55.08	143.1	80.46	UL-RL	4.3908E+05	333.4	40.81	
1.000	1.000	95.90	0.000	0.000	8.000	8.000	Salt_1270_202756_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
30 D	19.82	8.3841E-08	69.19	56.29	145.1	81.58	UL-RL	4.3908E+05	333.2	42.82	
1.000	1.000	99.11	0.000	0.000	8.000	8.000	Salt_1270_202756_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
31 D	20.46	8.2042E-08	71.18	57.49	147.1	82.70	UL-RL	4.3908E+05	333.0	44.83	
1.000	1.000	102.3	0.000	0.000	8.000	8.000	Salt_1270_202756_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
32 D	21.10	7.9300E-08	73.18	58.68	149.1	83.81	UL-RL	4.3908E+05	332.8	46.83	
1.000	1.000	105.5	0.000	0.000	8.000	8.000	Salt_1270_202756_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
33 D	21.74	7.5621E-08	75.17	59.88	151.1	84.93	UL-RL	4.3908E+05	332.6	48.84	
1.000	1.000	108.7	0.000	0.000	8.000	8.000	Salt_1270_202756_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
34 D	22.38	7.1023E-08	77.17	61.07	153.1	86.05	UL-RL	4.3908E+05	332.4	50.84	
1.000	1.000	111.9	0.000	0.000	8.000	8.000	Salt_1270_202756_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
35 D	23.02	6.5530E-08	79.16	62.25	155.1	87.17	UL-RL	4.3908E+05	332.2	52.85	
1.000	1.000	115.1	0.000	0.000	8.000	8.000	Salt_1270_202756_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
36 D	23.66	5.9174E-08	81.15	63.44	157.1	88.28	UL-RL	4.3908E+05	332.0	54.85	
1.000	1.000	118.3	0.000	0.000	8.000	8.000	Salt_1270_202756_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
37 D	24.30	5.1991E-08	83.15	64.62	159.0	89.40	UL-RL	4.3908E+05	331.8	56.86	
1.000	1.000	121.5	0.000	0.000	8.000	8.000	Salt_1270_202756_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
38 D	24.93	4.4017E-08	85.14	65.80	161.0	90.52	UL-RL	4.3908E+05	331.6	58.87	
1.000	1.000	124.7	0.000	0.000	8.000	8.000	Salt_1270_202756_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
39 D	25.57	3.5308E-08	87.14	66.98	163.0	91.63	UL-RL	4.3908E+05	331.4	60.87	
1.000	1.000	127.8	0.000	0.000	8.000	8.000	Salt_1270_202756_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
40 D	26.21	2.5907E-08	89.13	68.15	165.0	92.75	UL-RL	4.3908E+05	331.2	62.88	
1.000	1.000	131.0	0.000	0.000	8.000	8.000	Salt_1270_202756_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
41 D	25.31	8.1617E-08	91.13	61.68	167.0	83.51	UL-RL	2.2313E+05	331.0	64.88	
1.000	1.000	126.6	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
42 D	25.97	8.2116E-08	93.63	62.99	169.5	84.76	UL-RL	2.2313E+05	330.8	66.88	
1.000	1.000	129.9	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
43 D	26.64	8.2090E-08	96.13	64.30	172.0	86.01	UL-RL	2.2313E+05	330.6	68.88	
1.000	1.000	133.2	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
44 D	27.30	8.1595E-08	98.63	65.60	174.5	87.26	UL-RL	2.2313E+05	330.4	70.88	
1.000	1.000	136.5	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
45 D	27.96	8.0681E-08	101.1	66.90	177.0	88.51	UL-RL	2.2313E+05	330.2	72.88	
1.000	1.000	139.8	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
46 D	28.62	7.9397E-08	103.6	68.20	179.5	89.76	UL-RL	2.2313E+05	330.0	74.88	
1.000	1.000	143.1	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
47 D	29.28	7.7788E-08	106.1	69.49	182.0	91.01	UL-RL	2.2313E+05	329.8	76.89	
1.000	1.000	146.4	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
48 D	29.93	7.5898E-08	108.6	70.79	184.5	92.26	UL-RL	2.2313E+05	329.6	78.89	
1.000	1.000	149.7	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
49 D	30.59	7.3767E-08	111.1	72.08	187.0	93.51	UL-RL	2.2313E+05	329.4	80.89	
1.000	1.000	153.0	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
50 D	31.25	7.1431E-08	113.6	73.37	189.5	94.76	UL-RL	2.2313E+05	329.2	82.89	
1.000	1.000	156.3	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
51 D	31.91	6.8923E-08	116.1	74.66	192.0	96.01	UL-RL	2.2313E+05	329.0	84.89	
1.000	1.000	159.6	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
52 D	32.57	6.6272E-08	118.6	75.95	194.5	97.26	UL-RL	2.2313E+05	328.8	86.89	
1.000	1.000	162.8	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							

53 D	33.23	6.3506E-08	121.1	77.24	197.0	98.51	UL-RL	2.2313E+05	328.6	88.89
1.000	1.000	166.1	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
54 D	33.88	6.0648E-08	123.6	78.52	199.5	99.75	UL-RL	2.2313E+05	328.4	90.89
1.000	1.000	169.4	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
55 D	34.54	5.7719E-08	126.1	79.81	202.0	101.0	UL-RL	2.2313E+05	328.2	92.89
1.000	1.000	172.7	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
56 D	35.20	5.4738E-08	128.6	81.09	204.5	102.3	UL-RL	2.2313E+05	328.0	94.89
1.000	1.000	176.0	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
57 D	35.85	5.1722E-08	131.1	82.38	207.0	103.5	UL-RL	2.2313E+05	327.8	96.89
1.000	1.000	179.3	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
58 D	36.51	4.8682E-08	133.6	83.66	209.5	104.8	UL-RL	2.2313E+05	327.6	98.89
1.000	1.000	182.6	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
59 D	37.17	4.5630E-08	136.1	84.94	212.0	106.0	UL-RL	2.2313E+05	327.4	100.9
1.000	1.000	185.8	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
60 D	37.82	4.2575E-08	138.6	86.22	214.5	107.3	UL-RL	2.2313E+05	327.2	102.9
1.000	1.000	189.1	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
61 D	38.48	3.9524E-08	141.1	87.50	217.0	108.5	UL-RL	2.2313E+05	327.0	104.9
1.000	1.000	192.4	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
62 D	39.13	3.6483E-08	143.6	88.78	219.5	109.7	UL-RL	2.2313E+05	326.8	106.9
1.000	1.000	195.7	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
63 D	39.79	3.3453E-08	146.1	90.05	222.0	111.0	UL-RL	2.2313E+05	326.6	108.9
1.000	1.000	199.0	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
64 D	40.45	3.0441E-08	148.6	91.33	224.5	112.2	UL-RL	2.2313E+05	326.4	110.9
1.000	1.000	202.2	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
65 D	41.10	2.7447E-08	151.1	92.61	227.0	113.5	UL-RL	2.2313E+05	326.2	112.9
1.000	1.000	205.5	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
66 D	41.76	2.4470E-08	153.6	93.88	229.5	114.7	UL-RL	2.2313E+05	326.0	114.9
1.000	1.000	208.8	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
67 D	42.41	2.1510E-08	156.1	95.16	232.0	116.0	UL-RL	2.2313E+05	325.8	116.9
1.000	1.000	212.1	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
68 D	43.07	1.8566E-08	158.6	96.43	234.5	117.2	UL-RL	2.2313E+05	325.6	118.9
1.000	1.000	215.3	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
69 D	43.72	1.5636E-08	161.1	97.70	237.0	118.5	UL-RL	2.2313E+05	325.4	120.9
1.000	1.000	218.6	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
70 D	44.38	1.2719E-08	163.6	98.97	239.5	119.7	UL-RL	2.2313E+05	325.2	122.9
1.000	1.000	221.9	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
71 D	45.03	9.8099E-09	166.1	100.2	242.0	121.0	UL-RL	2.2313E+05	325.0	124.9
1.000	1.000	225.1	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
72 D	45.68	6.9099E-09	168.6	101.5	244.5	122.2	UL-RL	2.2313E+05	324.8	126.9
1.000	1.000	228.4	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
73 D	46.34	4.0151E-09	171.1	102.8	247.0	123.5	UL-RL	2.2313E+05	324.6	128.9
1.000	1.000	231.7	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
74 D	46.99	1.1236E-09	173.6	104.1	249.5	124.7	UL-RL	2.2313E+05	324.4	130.9
1.000	1.000	235.0	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
75 D	47.65	-1.7664E-09	176.1	105.3	252.0	126.0	UL-RL	2.2313E+05	324.2	132.9
1.000	1.000	238.2	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
76 D	24.15	-4.6427E-09	178.6	106.6	254.5	127.2	UL-RL	2.2313E+05	324.0	134.9
1.000	1.000	241.5	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						

```
+-----------------------------------------------------------------------------------------------------------------------------+
|                  PARATIEPLUS(TM)   NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*                    |
|                                                                                                                             |
|                                              ParatiePlus                                                                    |
|                                    Exe Time :28 January 2022   16:22:49                                                     |
+-----------------------------------------------------------------------------------------------------------------------------+
New Project


S T R E S S   R E S U L T S   F O R   G R O U P   N O.   2

0_R                                                    :
ELEMENT TYPE    5 NO.OF ELEMENTS. IN THIS GROUP   76
C U R R E N T   T I M E   I S      2.0000 SUBINCREMENT 00001/00001

 HARDENING 2D SOIL ELEMENT

 ****** TOTAL STRESS FORMULATION *****

  EL *   FORCE      DISPL-Y  VERTICAL-P  HORIZON.-P     MAX-V-P     MAX-H-P          STATE   STIFFNESS Z-LEVEL      PORE       E FAC-
TOR    UFACTOR       Peq          Su_a        Su_p        Cohe_a      Cohe_p     LAYER                                ZFO         QS
QSL          ZD          ZPL          Kz
 ------------------------------------------------------------------------------------------------------------------------------
-----------------------------------------------------------------------------------------------------------------------------
-----------------------------------------------
   1 D  3.5179E-03  4.6619E-07   0.000      3.5179E-02   76.00       38.00          UL-RL  7.5461E+04   339.0       0.000
1.000       1.000      3.5179E-02   0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000       0.0000      0.0000      0.0000
   2 D   1.748      4.6279E-07   3.800       8.742       79.80       39.90          UL-RL  7.5461E+04   338.8       0.000
1.000       1.000       8.742       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000       0.0000      0.0000      0.0000
   3 D   2.528      4.5937E-07   7.600       12.64       83.60       41.80          UL-RL  7.5461E+04   338.6       0.000
1.000       1.000       12.64       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000       0.0000      0.0000      0.0000
   4 D   3.163      4.5590E-07   11.40       15.82       87.40       43.70          UL-RL  7.5461E+04   338.4       0.000
1.000       1.000       15.82       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000       0.0000      0.0000      0.0000
   5 D   3.730      4.5230E-07   15.20       18.65       91.20       45.60          UL-RL  7.5461E+04   338.2       0.000
1.000       1.000       18.65       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000       0.0000      0.0000      0.0000
   6 D   4.256      4.4846E-07   19.00       21.28       95.00       47.50          UL-RL  7.5461E+04   338.0       0.000
1.000       1.000       21.28       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000       0.0000      0.0000      0.0000
   7 D   4.753      4.4425E-07   22.80       23.77       98.80       49.40          UL-RL  7.5461E+04   337.8       0.000
1.000       1.000       23.77       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000       0.0000      0.0000      0.0000
   8 D   5.231      4.3949E-07   26.60       26.16       102.6       51.30          UL-RL  7.5461E+04   337.6       0.000
1.000       1.000       26.16       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000       0.0000      0.0000      0.0000
   9 D   5.728     -2.6006E-06   29.31       27.55       105.0       52.52          UL-RL  7.5461E+04   337.4       1.091
1.000       1.000       28.64       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000       0.0000      0.0000      0.0000
  10 D   6.345     -2.5216E-06   31.12       28.64       106.9       53.43          UL-RL  7.5461E+04   337.2       3.086
1.000       1.000       31.73       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000       0.0000      0.0000      0.0000
  11 D   6.960     -2.4438E-06   32.92       29.72       108.7       54.33          UL-RL  7.5461E+04   337.0       5.080
1.000       1.000       34.80       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000       0.0000      0.0000      0.0000
  12 D   7.573     -2.3672E-06   34.73       30.79       110.5       55.24          UL-RL  7.5461E+04   336.8       7.075
1.000       1.000       37.87       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000       0.0000      0.0000      0.0000
  13 D   8.184     -2.2921E-06   36.53       31.85       112.3       56.14          UL-RL  7.5461E+04   336.6       9.069
1.000       1.000       40.92       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000       0.0000      0.0000      0.0000
  14 D   8.793     -2.2182E-06   38.34       32.90       114.1       57.05          UL-RL  7.5461E+04   336.4       11.06
1.000       1.000       43.97       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000       0.0000      0.0000      0.0000
  15 D   9.401     -2.1458E-06   40.14       33.94       115.9       57.95          UL-RL  7.5461E+04   336.2       13.06
1.000       1.000       47.00       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000       0.0000      0.0000      0.0000
  16 D   10.01     -2.0747E-06   41.95       34.98       117.7       58.86          UL-RL  7.5461E+04   336.0       15.05
1.000       1.000       50.03       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000       0.0000      0.0000      0.0000
  17 D   10.61     -2.0048E-06   43.76       36.01       119.5       59.76          UL-RL  7.5461E+04   335.8       17.05
1.000       1.000       53.06       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000       0.0000      0.0000      0.0000
  18 D   11.21     -1.9359E-06   45.56       37.03       121.3       60.67          UL-RL  7.5461E+04   335.6       19.04
1.000       1.000       56.07       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000       0.0000      0.0000      0.0000
  19 D   11.82     -1.8679E-06   47.37       38.04       123.1       61.57          UL-RL  7.5461E+04   335.4       21.04
1.000       1.000       59.08       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000       0.0000      0.0000      0.0000
  20 D   12.42     -1.8006E-06   49.17       39.06       124.9       62.47          UL-RL  7.5461E+04   335.2       23.03
1.000       1.000       62.09       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000       0.0000      0.0000      0.0000
  21 D   14.04     -6.4195E-08   50.98       45.15       126.8       71.24          UL-RL  4.0994E+05   335.0       25.03
1.000       1.000       70.18       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000       0.0000      0.0000      0.0000
  22 D   14.68     -6.8401E-08   52.98       46.39       128.8       72.37          UL-RL  4.0994E+05   334.8       27.02
```

```
1.000       1.000       73.41       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  23 D   15.33     -7.2462E-08   54.99       47.63       130.8       73.50          UL-RL  4.0994E+05   334.6       29.02
1.000       1.000       76.65       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  24 D   15.97     -7.6173E-08   56.99       48.86       132.8       74.63          UL-RL  4.0994E+05   334.4       31.01
1.000       1.000       79.87       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  25 D   16.62     -7.9364E-08   59.00       50.09       134.8       75.76          UL-RL  4.0994E+05   334.2       33.01
1.000       1.000       83.09       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  26 D   17.26     -8.1903E-08   61.01       51.31       136.8       76.88          UL-RL  4.0994E+05   334.0       35.00
1.000       1.000       86.31       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  27 D   17.90     -8.3687E-08   63.01       52.53       138.8       78.01          UL-RL  4.0994E+05   333.8       36.99
1.000       1.000       89.52       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  28 D   18.55     -8.4637E-08   65.02       53.74       140.8       79.14          UL-RL  4.0994E+05   333.6       38.99
1.000       1.000       92.73       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  29 D   19.19     -8.4700E-08   67.02       54.95       142.8       80.27          UL-RL  4.0994E+05   333.4       40.98
1.000       1.000       95.94       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  30 D   19.83     -8.3841E-08   69.03       56.16       144.8       81.40          UL-RL  4.0994E+05   333.2       42.98
1.000       1.000       99.14       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  31 D   20.47     -8.2042E-08   71.03       57.37       146.9       82.53          UL-RL  4.0994E+05   333.0       44.97
1.000       1.000       102.3       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  32 D   21.11     -7.9300E-08   73.04       58.57       148.9       83.66          UL-RL  4.0994E+05   332.8       46.97
1.000       1.000       105.5       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  33 D   21.75     -7.5621E-08   75.05       59.77       150.9       84.79          UL-RL  4.0994E+05   332.6       48.96
1.000       1.000       108.7       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  34 D   22.38     -7.1023E-08   77.05       60.97       152.9       85.92          UL-RL  4.0994E+05   332.4       50.96
1.000       1.000       111.9       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  35 D   23.02     -6.5530E-08   79.06       62.16       154.9       87.05          UL-RL  4.0994E+05   332.2       52.95
1.000       1.000       115.1       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  36 D   23.66     -5.9174E-08   81.06       63.36       156.9       88.18          UL-RL  4.0994E+05   332.0       54.95
1.000       1.000       118.3       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  37 D   24.30     -5.1991E-08   83.07       64.55       158.9       89.31          UL-RL  4.0994E+05   331.8       56.94
1.000       1.000       121.5       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  38 D   24.93     -4.4017E-08   85.07       65.74       160.9       90.44          UL-RL  4.0994E+05   331.6       58.94
1.000       1.000       124.7       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  39 D   25.57     -3.5308E-08   87.08       66.93       162.9       91.56          UL-RL  4.0994E+05   331.4       60.93
1.000       1.000       127.9       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  40 D   26.21     -2.5907E-08   89.08       68.11       164.9       92.69          UL-RL  4.0994E+05   331.2       62.93
1.000       1.000       131.0       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  41 D   25.31     -8.1617E-08   91.09       61.64       166.9       83.47          UL-RL  2.0168E+05   331.0       64.92
1.000       1.000       126.6       0.000       0.000       40.00       40.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  42 D   25.97     -8.2116E-08   93.59       62.95       169.4       84.72          UL-RL  2.0168E+05   330.8       66.92
1.000       1.000       129.9       0.000       0.000       40.00       40.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  43 D   26.63     -8.2090E-08   96.09       64.25       171.9       85.97          UL-RL  2.0168E+05   330.6       68.92
1.000       1.000       133.2       0.000       0.000       40.00       40.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  44 D   27.30     -8.1595E-08   98.59       65.56       174.4       87.22          UL-RL  2.0168E+05   330.4       70.92
1.000       1.000       136.5       0.000       0.000       40.00       40.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  45 D   27.96     -8.0681E-08   101.1       66.86       176.9       88.47          UL-RL  2.0168E+05   330.2       72.92
1.000       1.000       139.8       0.000       0.000       40.00       40.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  46 D   28.61     -7.9397E-08   103.6       68.16       179.5       89.73          UL-RL  2.0168E+05   330.0       74.92
1.000       1.000       143.1       0.000       0.000       40.00       40.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  47 D   29.27     -7.7788E-08   106.1       69.45       182.0       90.98          UL-RL  2.0168E+05   329.8       76.92
1.000       1.000       146.4       0.000       0.000       40.00       40.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  48 D   29.93     -7.5898E-08   108.6       70.75       184.5       92.23          UL-RL  2.0168E+05   329.6       78.92
1.000       1.000       149.7       0.000       0.000       40.00       40.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  49 D   30.59     -7.3767E-08   111.1       72.04       187.0       93.48          UL-RL  2.0168E+05   329.4       80.92
1.000       1.000       153.0       0.000       0.000       40.00       40.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  50 D   31.25     -7.1431E-08   113.6       73.34       189.5       94.73          UL-RL  2.0168E+05   329.2       82.92
1.000       1.000       156.3       0.000       0.000       40.00       40.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  51 D   31.91     -6.8923E-08   116.1       74.63       192.0       95.98          UL-RL  2.0168E+05   329.0       84.92
1.000       1.000       159.5       0.000       0.000       40.00       40.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  52 D   32.57     -6.6272E-08   118.6       75.92       194.5       97.23          UL-RL  2.0168E+05   328.8       86.92
1.000       1.000       162.8       0.000       0.000       40.00       40.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
```

53 D	33.22	-6.3506E-08	121.1	77.21	197.0	98.48	UL-RL	2.0168E+05	328.6	88.91
1.000	1.000	166.1	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
54 D	33.88	-6.0648E-08	123.6	78.49	199.5	99.73	UL-RL	2.0168E+05	328.4	90.91
1.000	1.000	169.4	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
55 D	34.54	-5.7719E-08	126.1	79.78	202.0	101.0	UL-RL	2.0168E+05	328.2	92.91
1.000	1.000	172.7	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
56 D	35.20	-5.4738E-08	128.6	81.07	204.5	102.2	UL-RL	2.0168E+05	328.0	94.91
1.000	1.000	176.0	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
57 D	35.85	-5.1722E-08	131.1	82.35	207.0	103.5	UL-RL	2.0168E+05	327.8	96.91
1.000	1.000	179.3	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
58 D	36.51	-4.8682E-08	133.6	83.63	209.5	104.7	UL-RL	2.0168E+05	327.6	98.91
1.000	1.000	182.5	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
59 D	37.17	-4.5630E-08	136.1	84.92	212.0	106.0	UL-RL	2.0168E+05	327.4	100.9
1.000	1.000	185.8	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
60 D	37.82	-4.2575E-08	138.6	86.20	214.5	107.2	UL-RL	2.0168E+05	327.2	102.9
1.000	1.000	189.1	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
61 D	38.48	-3.9524E-08	141.1	87.48	217.0	108.5	UL-RL	2.0168E+05	327.0	104.9
1.000	1.000	192.4	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
62 D	39.13	-3.6483E-08	143.6	88.76	219.5	109.7	UL-RL	2.0168E+05	326.8	106.9
1.000	1.000	195.7	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
63 D	39.79	-3.3453E-08	146.1	90.04	222.0	111.0	UL-RL	2.0168E+05	326.6	108.9
1.000	1.000	198.9	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
64 D	40.45	-3.0441E-08	148.6	91.31	224.5	112.2	UL-RL	2.0168E+05	326.4	110.9
1.000	1.000	202.2	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
65 D	41.10	-2.7447E-08	151.1	92.59	227.0	113.5	UL-RL	2.0168E+05	326.2	112.9
1.000	1.000	205.5	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
66 D	41.76	-2.4470E-08	153.6	93.87	229.5	114.7	UL-RL	2.0168E+05	326.0	114.9
1.000	1.000	208.8	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
67 D	42.41	-2.1510E-08	156.1	95.14	232.0	116.0	UL-RL	2.0168E+05	325.8	116.9
1.000	1.000	212.1	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
68 D	43.07	-1.8566E-08	158.6	96.42	234.5	117.2	UL-RL	2.0168E+05	325.6	118.9
1.000	1.000	215.3	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
69 D	43.72	-1.5636E-08	161.1	97.69	237.0	118.5	UL-RL	2.0168E+05	325.4	120.9
1.000	1.000	218.6	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
70 D	44.38	-1.2719E-08	163.6	98.97	239.5	119.7	UL-RL	2.0168E+05	325.2	122.9
1.000	1.000	221.9	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
71 D	45.03	-9.8099E-09	166.1	100.2	242.0	121.0	UL-RL	2.0168E+05	325.0	124.9
1.000	1.000	225.1	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
72 D	45.68	-6.9099E-09	168.6	101.5	244.5	122.2	UL-RL	2.0168E+05	324.8	126.9
1.000	1.000	228.4	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
73 D	46.34	-4.0151E-09	171.1	102.8	247.0	123.5	UL-RL	2.0168E+05	324.6	128.9
1.000	1.000	231.7	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
74 D	46.99	-1.1236E-09	173.6	104.1	249.5	124.7	UL-RL	2.0168E+05	324.4	130.9
1.000	1.000	235.0	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
75 D	47.65	1.7664E-09	176.1	105.3	252.0	126.0	UL-RL	2.0168E+05	324.2	132.9
1.000	1.000	238.2	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
76 D	24.15	4.6427E-09	178.6	106.6	254.5	127.2	UL-RL	2.0168E+05	324.0	134.9
1.000	1.000	241.5	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						

New Project

S T R E S S   R E S U L T S   F O R   G R O U P   N O.   3

Pali1500_253215   :
ELEMENT TYPE   2 NO.OF ELEMENTS. IN THIS GROUP   75
C U R R E N T   T I M E   I S   2.0000 SUBINCREMENT 00001/00001

 WALL2D ELEMENT

EL	TA	TB	MA	MB
1	-3.51795E-03	3.51795E-03	9.54792E-15	-7.03590E-04
2	-1.93337E-02	1.93337E-02	7.03590E-04	-4.57033E-03
3	-3.50326E-02	3.50326E-02	4.57033E-03	-1.15769E-02
4	-5.06130E-02	5.06130E-02	1.15769E-02	-2.16994E-02
5	-6.60703E-02	6.60703E-02	2.16994E-02	-3.49201E-02
6	-8.13965E-02	8.13965E-02	3.49201E-02	-5.11994E-02
7	-9.65787E-02	9.65787E-02	5.11994E-02	-7.05151E-02
8	-0.11160	0.11160	7.05151E-02	-9.28348E-02
9	-8.50781E-02	8.50781E-02	9.28348E-02	-0.10985
10	-5.98894E-02	5.98894E-02	0.10985	-0.12183
11	-3.59227E-02	3.59227E-02	0.12183	-0.12901
12	-1.30757E-02	1.30757E-02	0.12901	-0.13163
13	8.74754E-03	-8.74754E-03	0.13163	-0.12988
14	2.96360E-02	-2.96360E-02	0.12988	-0.12395
15	4.96728E-02	-4.96728E-02	0.12395	-0.11402
16	6.89334E-02	-6.89334E-02	0.11402	-0.10023
17	8.74853E-02	-8.74853E-02	0.10023	-8.27321E-02
18	0.10539	-0.10539	8.27321E-02	-6.16546E-02
19	0.12269	-0.12269	6.16546E-02	-3.71167E-02
20	0.13943	-0.13943	3.71167E-02	-9.23063E-03
21	0.11719	-0.11719	9.23063E-03	1.42192E-02
22	9.69979E-02	-9.69979E-02	-1.42192E-02	3.36188E-02
23	7.88415E-02	-7.88415E-02	-3.36188E-02	4.93871E-02
24	6.26752E-02	-6.26752E-02	-4.93871E-02	6.19222E-02
25	4.84220E-02	-4.84220E-02	-6.19222E-02	7.16066E-02
26	3.59810E-02	-3.59810E-02	-7.16066E-02	7.88028E-02
27	2.52323E-02	-2.52323E-02	-7.88028E-02	8.38492E-02
28	1.60419E-02	-1.60419E-02	-8.38492E-02	8.70576E-02
29	8.26552E-03	-8.26552E-03	-8.70576E-02	8.87115E-02
30	1.75298E-03	-1.75298E-03	-8.87115E-02	8.90621E-02
31	-3.65110E-03	3.65110E-03	-8.90621E-02	8.83319E-02
32	-8.10272E-03	8.10272E-03	-8.83319E-02	8.67113E-02
33	-1.17572E-02	1.17572E-02	-8.67113E-02	8.43599E-02
34	-1.47674E-02	1.47674E-02	-8.43599E-02	8.14064E-02
35	-1.72826E-02	1.72826E-02	-8.14064E-02	7.79499E-02
36	-1.94469E-02	1.94469E-02	-7.79499E-02	7.40605E-02
37	-2.13987E-02	2.13987E-02	-7.40605E-02	6.97786E-02
38	-2.32696E-02	2.32696E-02	-6.97786E-02	6.51247E-02
39	-2.51839E-02	2.51839E-02	-6.51247E-02	6.00879E-02
40	-2.72577E-02	2.72577E-02	-6.00879E-02	5.46364E-02
41	-2.64770E-02	2.64770E-02	-5.46364E-02	4.93410E-02
42	-2.54793E-02	2.54793E-02	-4.93410E-02	4.42452E-02
43	-2.43089E-02	2.43089E-02	-4.42452E-02	3.93834E-02
44	-2.30054E-02	2.30054E-02	-3.93834E-02	3.47823E-02
45	-2.16043E-02	2.16043E-02	-3.47823E-02	3.04614E-02
46	-2.01368E-02	2.01368E-02	-3.04614E-02	2.64321E-02
47	-1.86302E-02	1.86302E-02	-2.64321E-02	2.27060E-02
48	-1.71083E-02	1.71083E-02	-2.27060E-02	1.92844E-02
49	-1.55916E-02	1.55916E-02	-1.92844E-02	1.61660E-02
50	-1.40974E-02	1.40974E-02	-1.61660E-02	1.33466E-02
51	-1.26403E-02	1.26403E-02	-1.33466E-02	1.08185E-02
52	-1.12323E-02	1.12323E-02	-1.08185E-02	8.57204E-03
53	-9.88317E-03	9.88317E-03	-8.57204E-03	6.59541E-03
54	-8.60067E-03	8.60067E-03	-6.59541E-03	4.87442E-03
55	-7.39079E-03	7.39079E-03	-4.87442E-03	3.39626E-03
56	-6.25794E-03	6.25794E-03	-3.39626E-03	2.14467E-03
57	-5.20520E-03	5.20520E-03	-2.14467E-03	1.10363E-03
58	-4.23455E-03	4.23455E-03	-1.10363E-03	2.56719E-04
59	-3.34702E-03	3.34702E-03	-2.56719E-04	-4.12685E-04
60	-2.54290E-03	2.54290E-03	-4.12685E-04	-9.21265E-04
61	-1.82185E-03	1.82185E-03	-9.21265E-04	-1.28563E-03
62	-1.18308E-03	1.18308E-03	-1.28563E-03	-1.52237E-03
63	-6.25536E-04	6.25536E-04	-1.52237E-03	-1.64748E-03
64	-1.47845E-04	1.47845E-04	-1.64748E-03	-1.67705E-03
65	2.51430E-04	-2.51430E-04	-1.67705E-03	-1.62676E-03
66	5.73751E-04	-5.73751E-04	-1.62676E-03	-1.51201E-03
67	8.20537E-04	-8.20537E-04	-1.51201E-03	-1.34790E-03
68	9.93102E-04	-9.93102E-04	-1.34790E-03	-1.14928E-03
69	1.09262E-03	-1.09262E-03	-1.14928E-03	-9.30758E-04
70	1.12007E-03	-1.12007E-03	-9.30758E-04	-7.06632E-04

```
   71 1.07622E-03-1.07622E-03 7.06632E-04-4.91389E-04
   72 9.61688E-04-9.61688E-04 4.91389E-04-2.99052E-04
   73 7.76885E-04-7.76885E-04 2.99052E-04-1.43675E-04
   74 5.22034E-04-5.22034E-04 1.43675E-04-3.92678E-05
   75 1.97227E-04-1.97227E-04 3.92678E-05 8.32667E-17

ITER     0 RNORM = 0.000     RMNORM= 0.000
           RINORM=0.6389E+05 RIMNOR=0.5248
           RENORM= 7856.     REMNOR=0.3750E-24 RATIO =0.3507     TOLER =0.1000E-03  NOT CONVERGED
           RFMAX = 42.19     RMMAX =0.1316
           RTSMAL=0.1000E-03 RMSMAL=0.1000E-05
           RDT   =0.6389E+05 RDR   =0.5248
           RATIOT=0.3507     RATIOR= 0.000
           MAX UN= 17.37     IEQ=    61 NODE     31 DOF   1  Y-DISPL.F
           MIN UN=-.2269E-12 IEQ=    28 NODE     14 DOF   2   X-ROT. F
           NO. OF CONTACT CONSTRAINT VIOLATIONS     0


ITER     2 RNORM = 0.000     RMNORM= 0.000
           RINORM=0.6389E+05 RIMNOR=0.5248
           RENORM= 2243.     REMNOR=0.3844E-18 RATIO =0.1874     TOLER =0.1000E-03  NOT CONVERGED
           RFMAX = 42.19     RMMAX =0.1316
           RTSMAL=0.1000E-03 RMSMAL=0.1000E-05
           RDT   =0.6389E+05 RDR   =0.5248
           RATIOT=0.1874     RATIOR= 0.000
           MAX UN= 14.45     IEQ=    61 NODE     31 DOF   1  Y-DISPL.F
           MIN UN=-.3556E-08 IEQ=    27 NODE     14 DOF   1  Y-DISPL.F
           NO. OF CONTACT CONSTRAINT VIOLATIONS     0


ITER     3 RNORM = 0.000     RMNORM= 0.000
           RINORM=0.6389E+05 RIMNOR=0.5248
           RENORM= 490.6     REMNOR=0.1412E-17 RATIO =0.8763E-01 TOLER =0.1000E-03  NOT CONVERGED
           RFMAX = 42.19     RMMAX =0.1316
           RTSMAL=0.1000E-03 RMSMAL=0.1000E-05
           RDT   =0.6389E+05 RDR   =0.5248
           RATIOT=0.8763E-01 RATIOR= 0.000
           MAX UN= 7.590     IEQ=    15 NODE      8 DOF   1  Y-DISPL.F
           MIN UN=-.3872E-08 IEQ=    69 NODE     35 DOF   1  Y-DISPL.F
           NO. OF CONTACT CONSTRAINT VIOLATIONS     0


ITER     4 RNORM = 0.000     RMNORM= 0.000
           RINORM=0.6389E+05 RIMNOR=0.5248
           RENORM= 1501.     REMNOR=0.2065E-16 RATIO =0.1533     TOLER =0.1000E-03  NOT CONVERGED
           RFMAX = 42.19     RMMAX =0.1316
           RTSMAL=0.1000E-03 RMSMAL=0.1000E-05
           RDT   =0.6389E+05 RDR   =0.5248
           RATIOT=0.1533     RATIOR= 0.000
           MAX UN= 20.86     IEQ=    87 NODE     44 DOF   1  Y-DISPL.F
           MIN UN=-2.266     IEQ=   149 NODE     75 DOF   1  Y-DISPL.F
           NO. OF CONTACT CONSTRAINT VIOLATIONS     0


ITER     5 RNORM = 0.000     RMNORM= 0.000
           RINORM=0.6389E+05 RIMNOR=0.5248
           RENORM= 264.9     REMNOR=0.9729E-17 RATIO =0.6439E-01 TOLER =0.1000E-03  NOT CONVERGED
           RFMAX = 42.19     RMMAX =0.1316
           RTSMAL=0.1000E-03 RMSMAL=0.1000E-05
           RDT   =0.6389E+05 RDR   =0.5248
           RATIOT=0.6439E-01 RATIOR= 0.000
           MAX UN= 11.21     IEQ=   107 NODE     54 DOF   1  Y-DISPL.F
           MIN UN=-1.497     IEQ=   137 NODE     69 DOF   1  Y-DISPL.F
           NO. OF CONTACT CONSTRAINT VIOLATIONS     0


ITER     6 RNORM = 0.000     RMNORM= 0.000
           RINORM=0.6389E+05 RIMNOR=0.5248
           RENORM= 1.400     REMNOR=0.8992E-17 RATIO =0.4680E-02 TOLER =0.1000E-03  NOT CONVERGED
           RFMAX = 42.19     RMMAX =0.1316
           RTSMAL=0.1000E-03 RMSMAL=0.1000E-05
           RDT   =0.6389E+05 RDR   =0.5248
           RATIOT=0.4680E-02 RATIOR= 0.000
           MAX UN= 1.053     IEQ=   115 NODE     58 DOF   1  Y-DISPL.F
           MIN UN=-.1848     IEQ=   135 NODE     68 DOF   1  Y-DISPL.F
           NO. OF CONTACT CONSTRAINT VIOLATIONS     0


ITER     7 RNORM = 0.000     RMNORM= 0.000
           RINORM=0.6389E+05 RIMNOR=0.5248
           RENORM=0.4825E-04 REMNOR=0.8424E-17 RATIO =0.2748E-04 TOLER =0.1000E-03      CONVERGED !
           RFMAX = 42.19     RMMAX =0.1316
           RTSMAL=0.1000E-03 RMSMAL=0.1000E-05
           RDT   =0.6389E+05 RDR   =0.5248
           RATIOT=0.2748E-04 RATIOR= 0.000
           MAX UN=0.2006E-07 IEQ=     5 NODE      3 DOF   1  Y-DISPL.F
           MIN UN=-.6327E-02 IEQ=   139 NODE     70 DOF   1  Y-DISPL.F
           NO. OF CONTACT CONSTRAINT VIOLATIONS     0
```

```
+-----------------------------------------------------------------------------------------------------------------------+
|                  PARATIEPLUS(TM)   NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*             |
|                                                                                                                       |
|                                                ParatiePlus                                                            |
|                                  Exe Time :28 January 2022   16:22:49                                                 |
+-----------------------------------------------------------------------------------------------------------------------+
New Project
SOLUTION REACHED USING     7 ITERATIONS ON   80

P R I N T   O U T   F O R   T I M E   S T E P   3     ( AT TIME   3.000     ) SUBINCREMENT 00001/00001

PRINT OUT OF ACTIVE COMPONENTS (FIXED NODES ARE NOT PRINTED OUT)

          Y-DISPL.F        X-ROT. F
            02               04
    1   1.7003559E-02  -1.5734209E-03
    2   1.6688875E-02  -1.5734209E-03
    3   1.6374191E-02  -1.5734209E-03
    4   1.6059507E-02  -1.5734209E-03
    5   1.5744823E-02  -1.5734209E-03
    6   1.5429981E-02  -1.5734209E-03
    7   1.5115297E-02  -1.5734209E-03
    8   1.4800613E-02  -1.5734209E-03
    9   1.4482894E-02  -1.5734204E-03
   10   1.4168296E-02  -1.5734164E-03
   11   1.3853699E-02  -1.5734021E-03
   12   1.3539107E-02  -1.5733660E-03
   13   1.3224526E-02  -1.5732925E-03
   14   1.2909808E-02  -1.5731613E-03
   15   1.2595281E-02  -1.5729479E-03
   16   1.2280807E-02  -1.5726232E-03
   17   1.1966412E-02  -1.5721538E-03
   18   1.1652129E-02  -1.5715019E-03
   19   1.1337997E-02  -1.5706252E-03
   20   1.1024068E-02  -1.5694770E-03
   21   1.0712069E-02  -1.5680062E-03
   22   1.0398504E-02  -1.5661442E-03
   23   1.0085515E-02  -1.5638081E-03
   24   9.7730474E-03  -1.5609060E-03
   25   9.4612252E-03  -1.5573413E-03
   26   9.1501908E-03  -1.5530112E-03
   27   8.8401079E-03  -1.5478068E-03
   28   8.5311629E-03  -1.5416134E-03
   29   8.2235654E-03  -1.5343104E-03
   30   7.9173975E-03  -1.5257664E-03
   31   7.6132256E-03  -1.5158572E-03
   32   7.3111821E-03  -1.5044680E-03
   33   7.0115711E-03  -1.4915207E-03
   34   6.7147107E-03  -1.4769538E-03
   35   6.4209297E-03  -1.4607197E-03
   36   6.1305655E-03  -1.4427793E-03
   37   5.8439628E-03  -1.4230994E-03
   38   5.5613322E-03  -1.4016414E-03
   39   5.2833120E-03  -1.3784052E-03
   40   5.0101193E-03  -1.3533645E-03
   41   4.7420503E-03  -1.3265094E-03
   42   4.4795801E-03  -1.2979665E-03
   43   4.2229658E-03  -1.2679915E-03
   44   3.9724692E-03  -1.2368311E-03
   45   3.7283032E-03  -1.2047232E-03
   46   3.4906344E-03  -1.1718970E-03
   47   3.2594704E-03  -1.1385564E-03
   48   3.0351203E-03  -1.1049470E-03
   49   2.8175036E-03  -1.0712567E-03
   50   2.6066166E-03  -1.0376818E-03
   51   2.4024173E-03  -1.0044111E-03
   52   2.2048264E-03  -9.7162603E-04
   53   2.0137295E-03  -9.3950067E-04
   54   1.8289777E-03  -9.0820218E-04
   55   1.6503017E-03  -8.7787606E-04
   56   1.4776670E-03  -8.4870641E-04
   57   1.3107399E-03  -8.2082528E-04
   58   1.1492482E-03  -7.9437393E-04
   59   9.9289258E-04  -7.6948769E-04
   60   8.4134683E-04  -7.4629608E-04
   61   6.9426027E-04  -7.2491228E-04
   62   5.5126247E-04  -7.0541981E-04
   63   4.1190068E-04  -6.8786195E-04
   64   2.7592290E-04  -6.7227674E-04
   65   1.4286640E-04  -6.5864508E-04
   66   1.2343909E-05  -6.4692752E-04
   67  -1.1602101E-04  -6.3705559E-04
   68  -2.4258826E-04  -6.2893232E-04
   69  -3.6769577E-04  -6.2243617E-04
   70  -4.9165514E-04  -6.1742584E-04
   71  -6.1480923E-04  -6.1373989E-04
   72  -7.3728274E-04  -6.1120416E-04
   73  -8.5934778E-04  -6.0962133E-04
   74  -9.8117399E-04  -6.0877897E-04
```

```
75  -1.1028868E-03  -6.0844745E-04
76  -1.2240164E-03  -6.0837992E-04
```

```
+-----------------------------------------------------------------------------------------------------------------------+
|                  PARATIEPLUS(TM)   NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*             |
|                                                                                                                       |
|                                            ParatiePlus                                                                |
|                                  Exe Time :28 January 2022   16:22:49                                                 |
+-----------------------------------------------------------------------------------------------------------------------+
New Project


S T R E S S   R E S U L T S   F O R   G R O U P   N O.   1

0_L                                                    :
ELEMENT TYPE    5 NO.OF ELEMENTS. IN THIS GROUP   76
C U R R E N T   T I M E   I S      3.0000 SUBINCREMENT 00001/00001

 HARDENING 2D SOIL ELEMENT

 ****** TOTAL STRESS FORMULATION *****

  EL *   FORCE     DISPL-Y  VERTICAL-P  HORIZON.-P     MAX-V-P     MAX-H-P          STATE   STIFFNESS Z-LEVEL      PORE       E FAC-
TOR    UFACTOR       Peq          Su_a        Su_p        Cohe_a      Cohe_p     LAYER                                ZFO         QS
QSL          ZD          ZPL          Kz
 ------------------------------------------------------------------------------------------------------------------------------------
------------------------------------------------------------------------------------------------------------------------------------
-----------------------------------------------
   1 D   0.000     -1.7004E-02   0.000       0.000       76.00       38.00          ACTIVE   0.000       339.0       0.000
1.000       1.000       0.000       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   2 D   0.000     -1.6689E-02   3.800       0.000       79.80       39.90          ACTIVE   0.000       338.8       0.000
1.000       1.000       0.000       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   3 D   0.000     -1.6374E-02   7.600       0.000       83.60       41.80          ACTIVE   0.000       338.6       0.000
1.000       1.000       0.000       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   4 D   0.000     -1.6060E-02   11.40       0.000       87.40       43.70          ACTIVE   0.000       338.4       0.000
1.000       1.000       0.000       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   5 D   0.000     -1.5745E-02   15.20       0.000       91.20       45.60          ACTIVE   0.000       338.2       0.000
1.000       1.000       0.000       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   6 D   0.000     -1.5430E-02   19.00       0.000       95.00       47.50          ACTIVE   0.000       338.0       0.000
1.000       1.000       0.000       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   7 D   0.000     -1.5115E-02   22.80       0.000       98.80       49.40          ACTIVE   0.000       337.8       0.000
1.000       1.000       0.000       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   8 D  0.1015     -1.4801E-02   26.60      0.5075       102.6       51.30          ACTIVE   0.000       337.6       0.000
1.000       1.000      0.5075       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   9 D  0.4443     -1.4483E-02   30.07       1.893       105.7       52.95          ACTIVE   0.000       337.4       0.3288
1.000       1.000       2.221       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  10 D  0.8603     -1.4168E-02   32.93       3.034       107.5       53.84          ACTIVE   0.000       337.2       1.267
1.000       1.000       4.301       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  11 D   1.276     -1.3854E-02   35.80       4.176       109.3       54.73          ACTIVE   0.000       337.0       2.205
1.000       1.000       6.381       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  12 D   1.692     -1.3539E-02   38.66       5.318       111.1       55.62          ACTIVE   0.000       336.8       3.143
1.000       1.000       8.461       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  13 D   2.108     -1.3225E-02   41.52       6.460       112.9       56.52          ACTIVE   0.000       336.6       4.081
1.000       1.000       10.54       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  14 D   2.524     -1.2910E-02   44.38       7.603       114.7       57.41          ACTIVE   0.000       336.4       5.020
1.000       1.000       12.62       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  15 D   2.940     -1.2595E-02   47.25       8.744       116.4       58.30          ACTIVE   0.000       336.2       5.958
1.000       1.000       14.70       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  16 D   3.356     -1.2281E-02   50.11       9.886       118.2       59.19          ACTIVE   0.000       336.0       6.896
1.000       1.000       16.78       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  17 D   3.772     -1.1966E-02   52.97       11.03       120.0       60.09          ACTIVE   0.000       335.8       7.834
1.000       1.000       18.86       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  18 D   4.188     -1.1652E-02   55.83       12.17       121.8       60.98          ACTIVE   0.000       335.6       8.772
1.000       1.000       20.94       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  19 D   4.604     -1.1338E-02   58.69       13.31       123.6       61.87          ACTIVE   0.000       335.4       9.710
1.000       1.000       23.02       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  20 D   5.021     -1.1024E-02   61.56       14.45       125.4       62.77          ACTIVE   0.000       335.2       10.65
1.000       1.000       25.10       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  21 D   7.709     -1.0712E-02   64.42       26.96       127.2       71.53          ACTIVE   0.000       335.0       11.59
1.000       1.000       38.55       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  22 D   8.273     -1.0399E-02   67.48       28.84       129.2       72.65          ACTIVE   0.000       334.8       12.53
```

1.000	1.000	41.36	0.000	0.000	8.000	8.000	Salt_1270_202756_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
23 D	8.836	-1.0086E-02	70.54	30.72	131.2	73.76	ACTIVE	0.000	334.6	13.46	
1.000	1.000	44.18	0.000	0.000	8.000	8.000	Salt_1270_202756_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
24 D	9.399	-9.7730E-03	73.60	32.59	133.2	74.88	ACTIVE	0.000	334.4	14.40	
1.000	1.000	46.99	0.000	0.000	8.000	8.000	Salt_1270_202756_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
25 D	9.962	-9.4612E-03	76.67	34.47	135.2	76.00	ACTIVE	0.000	334.2	15.34	
1.000	1.000	49.81	0.000	0.000	8.000	8.000	Salt_1270_202756_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
26 D	10.52	-9.1502E-03	79.73	36.35	137.1	77.11	ACTIVE	0.000	334.0	16.28	
1.000	1.000	52.62	0.000	0.000	8.000	8.000	Salt_1270_202756_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
27 D	11.09	-8.8401E-03	82.79	38.22	139.1	78.23	ACTIVE	0.000	333.8	17.22	
1.000	1.000	55.44	0.000	0.000	8.000	8.000	Salt_1270_202756_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
28 D	11.65	-8.5312E-03	85.85	40.10	141.1	79.35	ACTIVE	0.000	333.6	18.15	
1.000	1.000	58.25	0.000	0.000	8.000	8.000	Salt_1270_202756_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
29 D	12.21	-8.2236E-03	88.91	41.98	143.1	80.46	ACTIVE	0.000	333.4	19.09	
1.000	1.000	61.07	0.000	0.000	8.000	8.000	Salt_1270_202756_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
30 D	12.78	-7.9174E-03	91.98	43.85	145.1	81.58	ACTIVE	0.000	333.2	20.03	
1.000	1.000	63.89	0.000	0.000	8.000	8.000	Salt_1270_202756_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
31 D	13.34	-7.6132E-03	95.04	45.73	147.1	82.70	ACTIVE	0.000	333.0	20.97	
1.000	1.000	66.70	0.000	0.000	8.000	8.000	Salt_1270_202756_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
32 D	13.90	-7.3112E-03	98.10	47.61	149.1	83.81	ACTIVE	0.000	332.8	21.91	
1.000	1.000	69.52	0.000	0.000	8.000	8.000	Salt_1270_202756_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
33 D	14.47	-7.0116E-03	101.2	49.49	151.1	84.93	ACTIVE	0.000	332.6	22.85	
1.000	1.000	72.33	0.000	0.000	8.000	8.000	Salt_1270_202756_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
34 D	15.03	-6.7147E-03	104.2	51.36	153.1	86.05	ACTIVE	0.000	332.4	23.78	
1.000	1.000	75.15	0.000	0.000	8.000	8.000	Salt_1270_202756_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
35 D	15.59	-6.4209E-03	107.3	53.24	155.1	87.17	ACTIVE	0.000	332.2	24.72	
1.000	1.000	77.96	0.000	0.000	8.000	8.000	Salt_1270_202756_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
36 D	16.16	-6.1306E-03	110.3	55.12	157.1	88.28	ACTIVE	0.000	332.0	25.66	
1.000	1.000	80.78	0.000	0.000	8.000	8.000	Salt_1270_202756_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
37 D	16.72	-5.8440E-03	113.4	56.99	159.0	89.40	ACTIVE	0.000	331.8	26.60	
1.000	1.000	83.59	0.000	0.000	8.000	8.000	Salt_1270_202756_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
38 D	17.28	-5.5613E-03	116.5	58.87	161.0	90.52	ACTIVE	0.000	331.6	27.54	
1.000	1.000	86.41	0.000	0.000	8.000	8.000	Salt_1270_202756_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
39 D	17.84	-5.2833E-03	119.5	60.75	163.0	91.63	ACTIVE	0.000	331.4	28.47	
1.000	1.000	89.22	0.000	0.000	8.000	8.000	Salt_1270_202756_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
40 D	18.41	-5.0101E-03	122.6	62.63	165.0	92.75	ACTIVE	0.000	331.2	29.41	
1.000	1.000	92.04	0.000	0.000	8.000	8.000	Salt_1270_202756_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
41 D	8.919	-4.7421E-03	125.7	14.24	167.0	83.51	ACTIVE	0.000	331.0	30.35	
1.000	1.000	44.60	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
42 D	9.617	-4.4796E-03	128.3	15.84	169.5	84.76	ACTIVE	0.000	330.8	32.25	
1.000	1.000	48.08	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
43 D	10.31	-4.2230E-03	130.9	17.43	172.0	86.01	ACTIVE	0.000	330.6	34.14	
1.000	1.000	51.57	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
44 D	11.01	-3.9725E-03	133.5	19.02	174.5	87.26	ACTIVE	0.000	330.4	36.03	
1.000	1.000	55.06	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
45 D	11.71	-3.7283E-03	136.1	20.61	177.0	88.51	ACTIVE	0.000	330.2	37.93	
1.000	1.000	58.54	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
46 D	12.41	-3.4906E-03	138.7	22.21	179.5	89.76	ACTIVE	0.000	330.0	39.82	
1.000	1.000	62.03	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
47 D	13.10	-3.2595E-03	141.3	23.80	182.0	91.01	ACTIVE	0.000	329.8	41.72	
1.000	1.000	65.52	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
48 D	13.80	-3.0351E-03	143.9	25.39	184.5	92.26	ACTIVE	0.000	329.6	43.61	
1.000	1.000	69.00	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
49 D	14.50	-2.8175E-03	146.5	26.98	187.0	93.51	ACTIVE	0.000	329.4	45.50	
1.000	1.000	72.49	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
50 D	15.19	-2.6066E-03	149.1	28.58	189.5	94.76	ACTIVE	0.000	329.2	47.40	
1.000	1.000	75.97	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
51 D	15.89	-2.4024E-03	151.7	30.17	192.0	96.01	ACTIVE	0.000	329.0	49.29	
1.000	1.000	79.46	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
52 D	16.59	-2.2048E-03	154.3	31.76	194.5	97.26	ACTIVE	0.000	328.8	51.19	
1.000	1.000	82.95	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							

53 D	17.29	-2.0137E-03	156.9	33.35	197.0	98.51	ACTIVE	0.000	328.6	53.08
1.000	1.000	86.43	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
54 D	17.98	-1.8290E-03	159.5	34.95	199.5	99.75	ACTIVE	0.000	328.4	54.97
1.000	1.000	89.92	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
55 D	18.68	-1.6503E-03	162.1	36.54	202.0	101.0	ACTIVE	0.000	328.2	56.87
1.000	1.000	93.41	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
56 D	19.38	-1.4777E-03	164.8	38.13	204.5	102.3	ACTIVE	0.000	328.0	58.76
1.000	1.000	96.89	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
57 D	20.08	-1.3107E-03	167.4	39.72	207.0	103.5	ACTIVE	0.000	327.8	60.66
1.000	1.000	100.4	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
58 D	20.77	-1.1492E-03	170.0	41.32	209.5	104.8	ACTIVE	0.000	327.6	62.55
1.000	1.000	103.9	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
59 D	21.47	-9.9289E-04	172.6	42.91	212.0	106.0	ACTIVE	0.000	327.4	64.44
1.000	1.000	107.4	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
60 D	23.27	-8.4135E-04	175.2	49.99	214.5	107.3	UL-RL	5.5782E+04	327.2	66.34
1.000	1.000	116.3	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
61 D	25.54	-6.9426E-04	177.8	59.48	217.0	108.5	UL-RL	5.5782E+04	327.0	68.23
1.000	1.000	127.7	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
62 D	27.77	-5.5126E-04	180.4	68.74	219.5	109.7	UL-RL	5.5782E+04	326.8	70.12
1.000	1.000	138.9	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
63 D	29.96	-4.1190E-04	183.0	77.80	222.0	111.0	UL-RL	5.5782E+04	326.6	72.02
1.000	1.000	149.8	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
64 D	32.12	-2.7592E-04	185.6	86.67	224.5	112.2	UL-RL	5.5782E+04	326.4	73.91
1.000	1.000	160.6	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
65 D	34.24	-1.4287E-04	188.2	95.38	227.0	113.5	UL-RL	5.5782E+04	326.2	75.81
1.000	1.000	171.2	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
66 D	36.33	-1.2344E-05	190.8	103.9	229.5	114.7	UL-RL	5.5782E+04	326.0	77.70
1.000	1.000	181.6	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
67 D	38.40	1.1602E-04	193.4	112.4	232.0	116.0	UL-RL	5.5782E+04	325.8	79.59
1.000	1.000	192.0	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
68 D	39.78	2.4259E-04	196.0	117.4	234.5	118.9	UL-RL	5.5782E+04	325.6	81.49
1.000	1.000	198.9	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
69 D	40.98	3.6770E-04	198.6	121.5	237.0	122.2	UL-RL	5.5782E+04	325.4	83.38
1.000	1.000	204.9	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
70 D	42.16	4.9166E-04	201.2	125.5	239.5	125.6	UL-RL	5.5782E+04	325.2	85.28
1.000	1.000	210.8	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
71 D	43.25	6.1481E-04	203.8	129.1	242.0	129.1	UL-RL	5.5782E+04	325.0	87.17
1.000	1.000	216.3	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
72 D	44.34	7.3728E-04	206.5	132.6	244.5	132.6	V-C	1.8594E+04	324.8	89.06
1.000	1.000	221.7	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
73 D	45.43	8.5935E-04	209.1	136.2	247.0	136.2	V-C	1.8594E+04	324.6	90.96
1.000	1.000	227.1	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
74 D	46.51	9.8117E-04	211.7	139.7	249.5	139.7	V-C	1.8594E+04	324.4	92.85
1.000	1.000	232.6	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
75 D	47.60	1.1029E-03	214.3	143.2	252.0	143.2	V-C	1.8594E+04	324.2	94.75
1.000	1.000	238.0	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
76 D	24.34	1.2240E-03	216.9	146.7	254.5	146.7	V-C	1.8594E+04	324.0	96.63
1.000	1.000	243.4	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						

```
+-----------------------------------------------------------------------------------------------------------------------+
|                  PARATIEPLUS(TM)   NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*             |
|                                                                                                                       |
|                                            ParatiePlus                                                                |
|                                  Exe Time :28 January 2022   16:22:49                                                 |
+-----------------------------------------------------------------------------------------------------------------------+
New Project


S T R E S S   R E S U L T S   F O R   G R O U P   N O.   2

0_R                                                    :
ELEMENT TYPE    5 NO.OF ELEMENTS. IN THIS GROUP   76
C U R R E N T   T I M E   I S      3.0000 SUBINCREMENT 00001/00001

 HARDENING 2D SOIL ELEMENT

 ****** TOTAL STRESS FORMULATION *****

  EL *   FORCE     DISPL-Y  VERTICAL-P  HORIZON.-P     MAX-V-P     MAX-H-P          STATE   STIFFNESS Z-LEVEL      PORE       E FAC-
TOR    UFACTOR       Peq          Su_a        Su_p        Cohe_a      Cohe_p     LAYER                              ZFO         QS
QSL         ZD          ZPL          Kz
 ------------------------------------------------------------------------------------------------------------------------------
------------------------------------------------------------------------------------------------------------------------------
-----------------------------------------------
   1     0.000         --          --          --          --          --         REMOVED     --        339.0       0.000
1.000       1.000       0.000       0.000       0.000       0.000       0.000     not available
   2     0.000         --          --          --          --          --         REMOVED     --        338.8       0.000
1.000       1.000       0.000       0.000       0.000       0.000       0.000     not available
   3     0.000         --          --          --          --          --         REMOVED     --        338.6       0.000
1.000       1.000       0.000       0.000       0.000       0.000       0.000     not available
   4     0.000         --          --          --          --          --         REMOVED     --        338.4       0.000
1.000       1.000       0.000       0.000       0.000       0.000       0.000     not available
   5     0.000         --          --          --          --          --         REMOVED     --        338.2       0.000
1.000       1.000       0.000       0.000       0.000       0.000       0.000     not available
   6     0.000         --          --          --          --          --         REMOVED     --        338.0       0.000
1.000       1.000       0.000       0.000       0.000       0.000       0.000     not available
   7     0.000         --          --          --          --          --         REMOVED     --        337.8       0.000
1.000       1.000       0.000       0.000       0.000       0.000       0.000     not available
   8     0.000         --          --          --          --          --         REMOVED     --        337.6       0.000
1.000       1.000       0.000       0.000       0.000       0.000       0.000     not available
   9     0.000         --          --          --          --          --         REMOVED     --        337.4       0.000
1.000       1.000       0.000       0.000       0.000       0.000       0.000     not available
  10     0.000         --          --          --          --          --         REMOVED     --        337.2       0.000
1.000       1.000       0.000       0.000       0.000       0.000       0.000     not available
  11     0.000         --          --          --          --          --         REMOVED     --        337.0       0.000
1.000       1.000       0.000       0.000       0.000       0.000       0.000     not available
  12     0.000         --          --          --          --          --         REMOVED     --        336.8       0.000
1.000       1.000       0.000       0.000       0.000       0.000       0.000     not available
  13     0.000         --          --          --          --          --         REMOVED     --        336.6       0.000
1.000       1.000       0.000       0.000       0.000       0.000       0.000     not available
  14     0.000         --          --          --          --          --         REMOVED     --        336.4       0.000
1.000       1.000       0.000       0.000       0.000       0.000       0.000     not available
  15     0.000         --          --          --          --          --         REMOVED     --        336.2       0.000
1.000       1.000       0.000       0.000       0.000       0.000       0.000     not available
  16     0.000         --          --          --          --          --         REMOVED     --        336.0       0.000
1.000       1.000       0.000       0.000       0.000       0.000       0.000     not available
  17     0.000         --          --          --          --          --         REMOVED     --        335.8       0.000
1.000       1.000       0.000       0.000       0.000       0.000       0.000     not available
  18     0.000         --          --          --          --          --         REMOVED     --        335.6       0.000
1.000       1.000       0.000       0.000       0.000       0.000       0.000     not available
  19     0.000         --          --          --          --          --         REMOVED     --        335.4       0.000
1.000       1.000       0.000       0.000       0.000       0.000       0.000     not available
  20     0.000         --          --          --          --          --         REMOVED     --        335.2       0.000
1.000       1.000       0.000       0.000       0.000       0.000       0.000     not available
  21     0.000         --          --          --          --          --         REMOVED     --        335.0       0.000
1.000       1.000       0.000       0.000       0.000       0.000       0.000     not available
  22     0.000         --          --          --          --          --         REMOVED     --        334.8       0.000
1.000       1.000       0.000       0.000       0.000       0.000       0.000     not available
  23     0.000         --          --          --          --          --         REMOVED     --        334.6       0.000
1.000       1.000       0.000       0.000       0.000       0.000       0.000     not available
  24     0.000         --          --          --          --          --         REMOVED     --        334.4       0.000
1.000       1.000       0.000       0.000       0.000       0.000       0.000     not available
  25     0.000         --          --          --          --          --         REMOVED     --        334.2       0.000
1.000       1.000       0.000       0.000       0.000       0.000       0.000     not available
  26     0.000         --          --          --          --          --         REMOVED     --        334.0       0.000
1.000       1.000       0.000       0.000       0.000       0.000       0.000     not available
  27     0.000         --          --          --          --          --         REMOVED     --        333.8       0.000
1.000       1.000       0.000       0.000       0.000       0.000       0.000     not available
  28     0.000         --          --          --          --          --         REMOVED     --        333.6       0.000
1.000       1.000       0.000       0.000       0.000       0.000       0.000     not available
  29     0.000         --          --          --          --          --         REMOVED     --        333.4       0.000
1.000       1.000       0.000       0.000       0.000       0.000       0.000     not available
  30     0.000         --          --          --          --          --         REMOVED     --        333.2       0.000
1.000       1.000       0.000       0.000       0.000       0.000       0.000     not available
  31 D   5.212      7.6132E-03  8.0000E-03   26.06       146.9       82.53         PASSIVE   0.000       333.0       0.000
1.000       1.000       26.06       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  32 D   7.332      7.3112E-03   4.008       36.66       148.9       83.66         PASSIVE   0.000       332.8       0.000
```

```
1.000       1.000       36.66       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  33 D   9.451      7.0116E-03   8.008       47.25       150.9       84.79         PASSIVE   0.000       332.6       0.000
1.000       1.000       47.25       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  34 D   11.08      6.7147E-03   10.52       53.91       152.9       85.92         PASSIVE   0.000       332.4       1.488
1.000       1.000       55.40       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  35 D   12.19      6.4209E-03   11.46       56.39       154.9       87.05         PASSIVE   0.000       332.2       4.550
1.000       1.000       60.94       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  36 D   13.30      6.1306E-03   12.40       58.88       156.9       88.18         PASSIVE   0.000       332.0       7.612
1.000       1.000       66.49       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  37 D   14.41      5.8440E-03   13.33       61.36       158.9       89.31         PASSIVE   0.000       331.8       10.67
1.000       1.000       72.04       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  38 D   15.52      5.5613E-03   14.27       63.85       160.9       90.44         PASSIVE   0.000       331.6       13.74
1.000       1.000       77.59       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  39 D   16.63      5.2833E-03   15.21       66.34       162.9       91.56         PASSIVE   0.000       331.4       16.80
1.000       1.000       83.13       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  40 D   17.74      5.0101E-03   16.15       68.82       164.9       92.69         PASSIVE   0.000       331.2       19.86
1.000       1.000       88.68       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  41 D   33.43      4.7421E-03   17.09       144.2       166.9       144.2              V-C  1.6807E+04   331.0       22.92
1.000       1.000       167.2       0.000       0.000       40.00       40.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  42 D   33.27      4.4796E-03   19.48       141.3       169.4       141.3              V-C  1.6807E+04   330.8       25.03
1.000       1.000       166.4       0.000       0.000       40.00       40.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  43 D   33.13      4.2230E-03   21.88       138.5       171.9       138.5              V-C  1.6807E+04   330.6       27.13
1.000       1.000       165.6       0.000       0.000       40.00       40.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  44 D   33.00      3.9725E-03   24.27       135.8       174.4       135.8              V-C  1.6807E+04   330.4       29.24
1.000       1.000       165.0       0.000       0.000       40.00       40.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  45 D   32.89      3.7283E-03   26.67       133.1       176.9       133.1              V-C  1.6807E+04   330.2       31.35
1.000       1.000       164.4       0.000       0.000       40.00       40.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  46 D   32.79      3.4906E-03   29.06       130.5       179.5       130.5              V-C  1.6807E+04   330.0       33.45
1.000       1.000       164.0       0.000       0.000       40.00       40.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  47 D   32.72      3.2595E-03   31.45       128.0       182.0       128.0              V-C  1.6807E+04   329.8       35.56
1.000       1.000       163.6       0.000       0.000       40.00       40.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  48 D   32.66      3.0351E-03   33.85       125.7       184.5       125.7              V-C  1.6807E+04   329.6       37.66
1.000       1.000       163.3       0.000       0.000       40.00       40.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  49 D   32.63      2.8175E-03   36.24       123.4       187.0       123.4              V-C  1.6807E+04   329.4       39.77
1.000       1.000       163.2       0.000       0.000       40.00       40.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  50 D   32.62      2.6066E-03   38.64       121.2       189.5       121.2              V-C  1.6807E+04   329.2       41.88
1.000       1.000       163.1       0.000       0.000       40.00       40.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  51 D   32.63      2.4024E-03   41.03       119.1       192.0       119.1              V-C  1.6807E+04   329.0       43.98
1.000       1.000       163.1       0.000       0.000       40.00       40.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  52 D   32.66      2.2048E-03   43.42       117.2       194.5       117.2              V-C  1.6807E+04   328.8       46.09
1.000       1.000       163.3       0.000       0.000       40.00       40.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  53 D   32.70      2.0137E-03   45.82       115.3       197.0       115.3              V-C  1.6807E+04   328.6       48.20
1.000       1.000       163.5       0.000       0.000       40.00       40.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  54 D   32.77      1.8290E-03   48.21       113.6       199.5       113.6              V-C  1.6807E+04   328.4       50.30
1.000       1.000       163.9       0.000       0.000       40.00       40.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  55 D   32.86      1.6503E-03   50.61       111.9       202.0       111.9              V-C  1.6807E+04   328.2       52.41
1.000       1.000       164.3       0.000       0.000       40.00       40.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  56 D   32.97      1.4777E-03   53.00       110.3       204.5       110.3              V-C  1.6807E+04   328.0       54.52
1.000       1.000       164.9       0.000       0.000       40.00       40.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  57 D   33.10      1.3107E-03   55.39       108.9       207.0       108.9              V-C  1.6807E+04   327.8       56.62
1.000       1.000       165.5       0.000       0.000       40.00       40.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  58 D   33.24      1.1492E-03   57.79       107.5       209.5       107.5              V-C  1.6807E+04   327.6       58.73
1.000       1.000       166.2       0.000       0.000       40.00       40.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  59 D   33.40      9.9289E-04   60.18       106.2       212.0       106.2              V-C  1.6807E+04   327.4       60.83
1.000       1.000       167.0       0.000       0.000       40.00       40.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  60 D   32.66      8.4135E-04   62.58       100.3       214.5       107.2             UL-RL  5.0420E+04   327.2       62.94
1.000       1.000       163.3       0.000       0.000       40.00       40.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  61 D   31.88      6.9426E-04   64.97       94.36       217.0       108.5             UL-RL  5.0420E+04   327.0       65.05
1.000       1.000       159.4       0.000       0.000       40.00       40.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  62 D   31.15      5.5126E-04   67.36       88.58       219.5       109.7             UL-RL  5.0420E+04   326.8       67.15
1.000       1.000       155.7       0.000       0.000       40.00       40.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
```

63 D	30.45	4.1190E-04	69.76	82.98	222.0	111.0	UL-RL	5.0420E+04	326.6	69.26
1.000	1.000	152.2	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
64 D	29.78	2.7592E-04	72.15	77.54	224.5	112.2	UL-RL	5.0420E+04	326.4	71.37
1.000	1.000	148.9	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
65 D	29.14	1.4287E-04	74.55	72.24	227.0	113.5	UL-RL	5.0420E+04	326.2	73.47
1.000	1.000	145.7	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
66 D	28.53	1.2344E-05	76.94	67.06	229.5	114.7	UL-RL	5.0420E+04	326.0	75.58
1.000	1.000	142.6	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
67 D	27.93	-1.1602E-04	79.33	61.98	232.0	116.0	UL-RL	5.0420E+04	325.8	77.68
1.000	1.000	139.7	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
68 D	27.35	-2.4259E-04	81.73	56.98	234.5	117.2	UL-RL	5.0420E+04	325.6	79.79
1.000	1.000	136.8	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
69 D	26.79	-3.6770E-04	84.12	52.05	237.0	118.5	UL-RL	5.0420E+04	325.4	81.90
1.000	1.000	134.0	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
70 D	26.24	-4.9166E-04	86.52	47.18	239.5	119.7	UL-RL	5.0420E+04	325.2	84.00
1.000	1.000	131.2	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
71 D	25.69	-6.1481E-04	88.91	42.34	242.0	121.0	UL-RL	5.0420E+04	325.0	86.11
1.000	1.000	128.4	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
72 D	25.15	-7.3728E-04	91.30	37.53	244.5	122.2	UL-RL	5.0420E+04	324.8	88.22
1.000	1.000	125.7	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
73 D	24.61	-8.5935E-04	93.70	32.73	247.0	123.5	UL-RL	5.0420E+04	324.6	90.32
1.000	1.000	123.1	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
74 D	24.07	-9.8117E-04	96.09	27.95	249.5	124.7	UL-RL	5.0420E+04	324.4	92.43
1.000	1.000	120.4	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
75 D	23.54	-1.1029E-03	98.49	23.16	252.0	126.0	UL-RL	5.0420E+04	324.2	94.53
1.000	1.000	117.7	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
76 D	11.50	-1.2240E-03	100.9	18.39	254.5	127.2	UL-RL	5.0420E+04	324.0	96.63
1.000	1.000	115.0	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						

New Project

S T R E S S   R E S U L T S   F O R   G R O U P   N O.   3

Pali1500_253215   :
ELEMENT TYPE   2 NO.OF ELEMENTS. IN THIS GROUP   75
C U R R E N T   T I M E   I S   3.0000 SUBINCREMENT 00001/00001

 WALL2D ELEMENT

EL	TA	TB	MA	MB
1	-8.46490E-09	8.46490E-09	-8.44428E-10	-3.26808E-09
2	1.69381E-08	-1.69381E-08	4.11418E-09	-8.67475E-11
3	-3.12472E-09	3.12472E-09	1.46687E-09	-2.28420E-09
4	1.35166E-09	-1.35166E-09	2.08966E-09	-3.33982E-09
5	-8.15855E-09	8.15855E-09	2.64960E-09	-5.33551E-09
6	2.73189E-09	-2.73189E-09	4.77127E-09	-2.05219E-09
7	-5.91140E-09	5.91140E-09	1.71065E-09	-3.41697E-09
8	0.10151	-0.10151	3.56386E-09	2.03011E-02
9	0.54577	-0.54577	-2.03011E-02	0.12946
10	1.4060	-1.4060	-0.12946	0.41066
11	2.6823	-2.6823	-0.41066	0.94713
12	4.3746	-4.3746	-0.94713	1.8220
13	6.4829	-6.4829	-1.8220	3.1193
14	9.0074	-9.0074	-3.1193	4.9207
15	11.948	-11.948	-4.9207	7.3103
16	15.304	-15.304	-7.3103	10.371
17	19.077	-19.077	-10.371	14.187
18	23.265	-23.265	-14.187	18.840
19	27.870	-27.870	-18.840	24.414
20	32.890	-32.890	-24.414	30.992
21	40.600	-40.600	-30.992	39.116
22	48.873	-48.873	-39.116	48.890
23	57.708	-57.708	-48.890	60.432
24	67.107	-67.107	-60.432	73.853
25	77.069	-77.069	-73.853	89.267
26	87.594	-87.594	-89.267	106.79
27	98.682	-98.682	-106.79	126.52
28	110.33	-110.33	-126.52	148.59
29	122.55	-122.55	-148.59	173.11
30	135.32	-135.32	-173.11	200.17
31	143.45	-143.45	-200.17	228.87
32	150.02	-150.02	-228.87	258.87
33	155.04	-155.04	-258.87	289.88
34	158.99	-158.99	-289.88	321.67
35	162.39	-162.39	-321.67	354.15
36	165.25	-165.25	-354.15	387.20
37	167.56	-167.56	-387.20	420.73
38	169.32	-169.32	-420.73	454.60
39	170.54	-170.54	-454.60	488.70
40	171.21	-171.21	-488.70	522.95
41	146.70	-146.70	-522.95	552.29
42	123.04	-123.04	-552.29	576.89
43	100.23	-100.23	-576.89	596.94
44	78.240	-78.240	-596.94	612.59
45	57.062	-57.062	-612.59	624.00
46	36.674	-36.674	-624.00	631.34
47	17.059	-17.059	-631.34	634.75
48	-1.8059	1.8059	-634.75	634.39
49	-19.940	19.940	-634.39	630.40
50	-37.363	37.363	-630.40	622.93
51	-54.098	54.098	-622.93	612.11
52	-70.164	70.164	-612.11	598.08
53	-85.581	85.581	-598.08	580.96
54	-100.37	100.37	-580.96	560.88
55	-114.55	114.55	-560.88	537.97
56	-128.14	128.14	-537.97	512.34
57	-141.16	141.16	-512.34	484.10
58	-153.63	153.63	-484.10	453.38
59	-165.56	165.56	-453.38	420.27
60	-174.95	174.95	-420.27	385.28
61	-181.29	181.29	-385.28	349.02
62	-184.66	184.66	-349.02	312.07
63	-185.15	185.15	-312.07	275.04
64	-182.81	182.81	-275.04	238.48
65	-177.72	177.72	-238.48	202.93
66	-169.91	169.91	-202.93	168.95
67	-159.45	159.45	-168.95	137.06
68	-147.02	147.02	-137.06	107.66
69	-132.84	132.84	-107.66	81.088
70	-116.90	116.90	-81.088	57.695

```
   71 -99.338      99.338     -57.695      37.828
   72 -80.144      80.144     -37.828      21.799
   73 -59.327      59.327     -21.799      9.9334
   74 -36.891      36.891     -9.9334      2.5553
   75 -12.834      12.834     -2.5553    -7.13100E-11

ITER     0 RNORM = 0.000     RMNORM= 0.000
           RINORM=0.1779E+07 RIMNOR=0.1707E+08
           RENORM=0.4825E-04 REMNOR=0.8424E-17 RATIO =0.5208E-05 TOLER =0.1000E-03      CONVERGED !
           RFMAX = 185.1     RMMAX = 634.8
           RTSMAL=0.1000E-02 RMSMAL=0.1000E-02
           RDT   =0.1779E+07 RDR   =0.1707E+08
           RATIOT=0.5208E-05 RATIOR= 0.000
           MAX UN=0.2006E-07 IEQ=     5 NODE      3 DOF   1  Y-DISPL.F
           MIN UN=-.6327E-02 IEQ=   139 NODE     70 DOF   1  Y-DISPL.F
           NO. OF CONTACT CONSTRAINT VIOLATIONS     0


ITER     1 RNORM = 0.000     RMNORM= 0.000
           RINORM=0.1779E+07 RIMNOR=0.1707E+08
           RENORM=0.2657E-06 REMNOR=0.1485E-16 RATIO =0.3865E-06 TOLER =0.1000E-03      CONVERGED !
           RFMAX = 185.1     RMMAX = 634.8
           RTSMAL=0.1000E-02 RMSMAL=0.1000E-02
           RDT   =0.1779E+07 RDR   =0.1707E+08
           RATIOT=0.3865E-06 RATIOR= 0.000
           MAX UN=0.6645E-04 IEQ=    61 NODE     31 DOF   1  Y-DISPL.F
           MIN UN=-.2440E-03 IEQ=   149 NODE     75 DOF   1  Y-DISPL.F
           NO. OF CONTACT CONSTRAINT VIOLATIONS     0


ITER     2 RNORM = 0.000     RMNORM= 0.000
           RINORM=0.1779E+07 RIMNOR=0.1707E+08
           RENORM=0.1840E-06 REMNOR=0.1356E-16 RATIO =0.3216E-06 TOLER =0.1000E-03      CONVERGED !
           RFMAX = 185.1     RMMAX = 634.8
           RTSMAL=0.1000E-02 RMSMAL=0.1000E-02
           RDT   =0.1779E+07 RDR   =0.1707E+08
           RATIOT=0.3216E-06 RATIOR= 0.000
           MAX UN=0.2265E-03 IEQ=    81 NODE     41 DOF   1  Y-DISPL.F
           MIN UN=-.1914E-07 IEQ=     5 NODE      3 DOF   1  Y-DISPL.F
           NO. OF CONTACT CONSTRAINT VIOLATIONS     0
```

```
+-------------------------------------------------------------------------------------------------------------------------+
|                   PARATIEPLUS(TM)   NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*              |
|                                                                                                                         |
|                                                ParatiePlus                                                              |
|                                  Exe Time :28 January 2022   16:22:49                                                   |
+-------------------------------------------------------------------------------------------------------------------------+
New Project
SOLUTION REACHED USING     2 ITERATIONS ON   80

P R I N T   O U T   F O R   T I M E   S T E P    4     ( AT TIME   4.000     ) SUBINCREMENT 00001/00001

PRINT OUT OF ACTIVE COMPONENTS (FIXED NODES ARE NOT PRINTED OUT)

          Y-DISPL.F        X-ROT. F
            02               04
    1   1.7003627E-02  -1.5734278E-03
    2   1.6688942E-02  -1.5734278E-03
    3   1.6374256E-02  -1.5734278E-03
    4   1.6059570E-02  -1.5734278E-03
    5   1.5744885E-02  -1.5734278E-03
    6   1.5430042E-02  -1.5734278E-03
    7   1.5115356E-02  -1.5734278E-03
    8   1.4800671E-02  -1.5734278E-03
    9   1.4482951E-02  -1.5734273E-03
   10   1.4168351E-02  -1.5734233E-03
   11   1.3853753E-02  -1.5734089E-03
   12   1.3539160E-02  -1.5733729E-03
   13   1.3224577E-02  -1.5732994E-03
   14   1.2909858E-02  -1.5731682E-03
   15   1.2595329E-02  -1.5729547E-03
   16   1.2280854E-02  -1.5726300E-03
   17   1.1966458E-02  -1.5721607E-03
   18   1.1652173E-02  -1.5715088E-03
   19   1.1338040E-02  -1.5706321E-03
   20   1.1024109E-02  -1.5694839E-03
   21   1.0712109E-02  -1.5680131E-03
   22   1.0398543E-02  -1.5661511E-03
   23   1.0085552E-02  -1.5638149E-03
   24   9.7730834E-03  -1.5609129E-03
   25   9.4612599E-03  -1.5573482E-03
   26   9.1502241E-03  -1.5530180E-03
   27   8.8401398E-03  -1.5478136E-03
   28   8.5311934E-03  -1.5416203E-03
   29   8.2235946E-03  -1.5343173E-03
   30   7.9174252E-03  -1.5257732E-03
   31   7.6132520E-03  -1.5158641E-03
   32   7.3112072E-03  -1.5044749E-03
   33   7.0115948E-03  -1.4915276E-03
   34   6.7147330E-03  -1.4769606E-03
   35   6.4209506E-03  -1.4607265E-03
   36   6.1305850E-03  -1.4427861E-03
   37   5.8439810E-03  -1.4231062E-03
   38   5.5613490E-03  -1.4016483E-03
   39   5.2833275E-03  -1.3784120E-03
   40   5.0101334E-03  -1.3533714E-03
   41   4.7420630E-03  -1.3265163E-03
   42   4.4795914E-03  -1.2979734E-03
   43   4.2229758E-03  -1.2679984E-03
   44   3.9724777E-03  -1.2368380E-03
   45   3.7283104E-03  -1.2047301E-03
   46   3.4906402E-03  -1.1719039E-03
   47   3.2594748E-03  -1.1385633E-03
   48   3.0351233E-03  -1.1049540E-03
   49   2.8175052E-03  -1.0712638E-03
   50   2.6066168E-03  -1.0376890E-03
   51   2.4024160E-03  -1.0044184E-03
   52   2.2048237E-03  -9.7163342E-04
   53   2.0137253E-03  -9.3950819E-04
   54   1.8289719E-03  -9.0820985E-04
   55   1.6502944E-03  -8.7788388E-04
   56   1.4776581E-03  -8.4871439E-04
   57   1.3107293E-03  -8.2083343E-04
   58   1.1492361E-03  -7.9438226E-04
   59   9.9287874E-04  -7.6949620E-04
   60   8.4133126E-04  -7.4630477E-04
   61   6.9424295E-04  -7.2492116E-04
   62   5.5124335E-04  -7.0542886E-04
   63   4.1187974E-04  -6.8787116E-04
   64   2.7590010E-04  -6.7228610E-04
   65   1.4284171E-04  -6.5865457E-04
   66   1.2317308E-05  -6.4693712E-04
   67  -1.1604954E-04  -6.3706527E-04
   68  -2.4261873E-04  -6.2894203E-04
   69  -3.6772818E-04  -6.2244588E-04
   70  -4.9168949E-04  -6.1743550E-04
   71  -6.1484550E-04  -6.1374947E-04
   72  -7.3732092E-04  -6.1121367E-04
   73  -8.5938786E-04  -6.0963080E-04
   74  -9.8121596E-04  -6.0878842E-04
```

```
75  -1.1029306E-03  -6.0845688E-04
76  -1.2240621E-03  -6.0838935E-04
```

```
+-----------------------------------------------------------------------------------------------------------------------+
|                  PARATIEPLUS(TM)   NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*             |
|                                                                                                                       |
|                                              ParatiePlus                                                              |
|                                  Exe Time :28 January 2022   16:22:49                                                 |
+-----------------------------------------------------------------------------------------------------------------------+
New Project


S T R E S S   R E S U L T S   F O R   G R O U P   N O.   1

0_L                                                    :
ELEMENT TYPE    5 NO.OF ELEMENTS. IN THIS GROUP   76
C U R R E N T   T I M E   I S      4.0000 SUBINCREMENT 00001/00001

 HARDENING 2D SOIL ELEMENT

 ****** TOTAL STRESS FORMULATION *****

  EL *   FORCE     DISPL-Y  VERTICAL-P  HORIZON.-P     MAX-V-P     MAX-H-P          STATE   STIFFNESS Z-LEVEL      PORE       E FAC-
TOR    UFACTOR       Peq          Su_a        Su_p        Cohe_a      Cohe_p     LAYER                                ZFO         QS
QSL          ZD          ZPL          Kz
 ------------------------------------------------------------------------------------------------------------------------------------
------------------------------------------------------------------------------------------------------------------------------------
-----------------------------------------------
   1 D   0.000     -1.7004E-02   0.000       0.000       76.00       38.00          ACTIVE   0.000       339.0       0.000
1.000       1.000       0.000       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   2 D   0.000     -1.6689E-02   3.800       0.000       79.80       39.90          ACTIVE   0.000       338.8       0.000
1.000       1.000       0.000       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   3 D   0.000     -1.6374E-02   7.600       0.000       83.60       41.80          ACTIVE   0.000       338.6       0.000
1.000       1.000       0.000       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   4 D   0.000     -1.6060E-02   11.40       0.000       87.40       43.70          ACTIVE   0.000       338.4       0.000
1.000       1.000       0.000       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   5 D   0.000     -1.5745E-02   15.20       0.000       91.20       45.60          ACTIVE   0.000       338.2       0.000
1.000       1.000       0.000       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   6 D   0.000     -1.5430E-02   19.00       0.000       95.00       47.50          ACTIVE   0.000       338.0       0.000
1.000       1.000       0.000       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   7 D   0.000     -1.5115E-02   22.80       0.000       98.80       49.40          ACTIVE   0.000       337.8       0.000
1.000       1.000       0.000       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   8 D  0.1015     -1.4801E-02   26.60      0.5075       102.6       51.30          ACTIVE   0.000       337.6       0.000
1.000       1.000      0.5075       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   9 D  0.4443     -1.4483E-02   30.07       1.893       105.7       52.95          ACTIVE   0.000       337.4       0.3288
1.000       1.000       2.221       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  10 D  0.8603     -1.4168E-02   32.93       3.034       107.5       53.84          ACTIVE   0.000       337.2       1.267
1.000       1.000       4.301       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  11 D   1.276     -1.3854E-02   35.80       4.176       109.3       54.73          ACTIVE   0.000       337.0       2.205
1.000       1.000       6.381       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  12 D   1.692     -1.3539E-02   38.66       5.318       111.1       55.62          ACTIVE   0.000       336.8       3.143
1.000       1.000       8.461       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  13 D   2.108     -1.3225E-02   41.52       6.460       112.9       56.52          ACTIVE   0.000       336.6       4.081
1.000       1.000       10.54       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  14 D   2.524     -1.2910E-02   44.38       7.603       114.7       57.41          ACTIVE   0.000       336.4       5.020
1.000       1.000       12.62       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  15 D   2.940     -1.2595E-02   47.25       8.744       116.4       58.30          ACTIVE   0.000       336.2       5.958
1.000       1.000       14.70       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  16 D   3.356     -1.2281E-02   50.11       9.886       118.2       59.19          ACTIVE   0.000       336.0       6.896
1.000       1.000       16.78       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  17 D   3.772     -1.1966E-02   52.97       11.03       120.0       60.09          ACTIVE   0.000       335.8       7.834
1.000       1.000       18.86       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  18 D   4.188     -1.1652E-02   55.83       12.17       121.8       60.98          ACTIVE   0.000       335.6       8.772
1.000       1.000       20.94       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  19 D   4.604     -1.1338E-02   58.69       13.31       123.6       61.87          ACTIVE   0.000       335.4       9.710
1.000       1.000       23.02       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  20 D   5.021     -1.1024E-02   61.56       14.45       125.4       62.77          ACTIVE   0.000       335.2       10.65
1.000       1.000       25.10       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  21 D   7.709     -1.0712E-02   64.42       26.96       127.2       71.53          ACTIVE   0.000       335.0       11.59
1.000       1.000       38.55       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  22 D   8.273     -1.0399E-02   67.48       28.84       129.2       72.65          ACTIVE   0.000       334.8       12.53
```

1.000	1.000	41.36	0.000	0.000	8.000	8.000	Salt_1270_202756_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
23 D	8.836	-1.0086E-02	70.54	30.72	131.2	73.76	ACTIVE	0.000	334.6	13.46	
1.000	1.000	44.18	0.000	0.000	8.000	8.000	Salt_1270_202756_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
24 D	9.399	-9.7731E-03	73.60	32.59	133.2	74.88	ACTIVE	0.000	334.4	14.40	
1.000	1.000	46.99	0.000	0.000	8.000	8.000	Salt_1270_202756_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
25 D	9.962	-9.4613E-03	76.67	34.47	135.2	76.00	ACTIVE	0.000	334.2	15.34	
1.000	1.000	49.81	0.000	0.000	8.000	8.000	Salt_1270_202756_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
26 D	10.52	-9.1502E-03	79.73	36.35	137.1	77.11	ACTIVE	0.000	334.0	16.28	
1.000	1.000	52.62	0.000	0.000	8.000	8.000	Salt_1270_202756_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
27 D	11.09	-8.8401E-03	82.79	38.22	139.1	78.23	ACTIVE	0.000	333.8	17.22	
1.000	1.000	55.44	0.000	0.000	8.000	8.000	Salt_1270_202756_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
28 D	11.65	-8.5312E-03	85.85	40.10	141.1	79.35	ACTIVE	0.000	333.6	18.15	
1.000	1.000	58.25	0.000	0.000	8.000	8.000	Salt_1270_202756_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
29 D	12.21	-8.2236E-03	88.91	41.98	143.1	80.46	ACTIVE	0.000	333.4	19.09	
1.000	1.000	61.07	0.000	0.000	8.000	8.000	Salt_1270_202756_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
30 D	12.78	-7.9174E-03	91.98	43.85	145.1	81.58	ACTIVE	0.000	333.2	20.03	
1.000	1.000	63.89	0.000	0.000	8.000	8.000	Salt_1270_202756_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
31 D	13.34	-7.6133E-03	95.04	45.73	147.1	82.70	ACTIVE	0.000	333.0	20.97	
1.000	1.000	66.70	0.000	0.000	8.000	8.000	Salt_1270_202756_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
32 D	13.90	-7.3112E-03	98.10	47.61	149.1	83.81	ACTIVE	0.000	332.8	21.91	
1.000	1.000	69.52	0.000	0.000	8.000	8.000	Salt_1270_202756_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
33 D	14.47	-7.0116E-03	101.2	49.49	151.1	84.93	ACTIVE	0.000	332.6	22.85	
1.000	1.000	72.33	0.000	0.000	8.000	8.000	Salt_1270_202756_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
34 D	15.03	-6.7147E-03	104.2	51.36	153.1	86.05	ACTIVE	0.000	332.4	23.78	
1.000	1.000	75.15	0.000	0.000	8.000	8.000	Salt_1270_202756_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
35 D	15.59	-6.4210E-03	107.3	53.24	155.1	87.17	ACTIVE	0.000	332.2	24.72	
1.000	1.000	77.96	0.000	0.000	8.000	8.000	Salt_1270_202756_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
36 D	16.16	-6.1306E-03	110.3	55.12	157.1	88.28	ACTIVE	0.000	332.0	25.66	
1.000	1.000	80.78	0.000	0.000	8.000	8.000	Salt_1270_202756_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
37 D	16.72	-5.8440E-03	113.4	56.99	159.0	89.40	ACTIVE	0.000	331.8	26.60	
1.000	1.000	83.59	0.000	0.000	8.000	8.000	Salt_1270_202756_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
38 D	17.28	-5.5613E-03	116.5	58.87	161.0	90.52	ACTIVE	0.000	331.6	27.54	
1.000	1.000	86.41	0.000	0.000	8.000	8.000	Salt_1270_202756_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
39 D	17.84	-5.2833E-03	119.5	60.75	163.0	91.63	ACTIVE	0.000	331.4	28.47	
1.000	1.000	89.22	0.000	0.000	8.000	8.000	Salt_1270_202756_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
40 D	18.41	-5.0101E-03	122.6	62.63	165.0	92.75	ACTIVE	0.000	331.2	29.41	
1.000	1.000	92.04	0.000	0.000	8.000	8.000	Salt_1270_202756_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
41 D	8.919	-4.7421E-03	125.7	14.24	167.0	83.51	ACTIVE	0.000	331.0	30.35	
1.000	1.000	44.60	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
42 D	9.617	-4.4796E-03	128.3	15.84	169.5	84.76	ACTIVE	0.000	330.8	32.25	
1.000	1.000	48.08	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
43 D	10.31	-4.2230E-03	130.9	17.43	172.0	86.01	ACTIVE	0.000	330.6	34.14	
1.000	1.000	51.57	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
44 D	11.01	-3.9725E-03	133.5	19.02	174.5	87.26	ACTIVE	0.000	330.4	36.03	
1.000	1.000	55.06	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
45 D	11.71	-3.7283E-03	136.1	20.61	177.0	88.51	ACTIVE	0.000	330.2	37.93	
1.000	1.000	58.54	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
46 D	12.41	-3.4906E-03	138.7	22.21	179.5	89.76	ACTIVE	0.000	330.0	39.82	
1.000	1.000	62.03	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
47 D	13.10	-3.2595E-03	141.3	23.80	182.0	91.01	ACTIVE	0.000	329.8	41.72	
1.000	1.000	65.52	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
48 D	13.80	-3.0351E-03	143.9	25.39	184.5	92.26	ACTIVE	0.000	329.6	43.61	
1.000	1.000	69.00	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
49 D	14.50	-2.8175E-03	146.5	26.98	187.0	93.51	ACTIVE	0.000	329.4	45.50	
1.000	1.000	72.49	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
50 D	15.19	-2.6066E-03	149.1	28.58	189.5	94.76	ACTIVE	0.000	329.2	47.40	
1.000	1.000	75.97	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
51 D	15.89	-2.4024E-03	151.7	30.17	192.0	96.01	UL-RL	5.5782E+04	329.0	49.29	
1.000	1.000	79.46	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
52 D	16.59	-2.2048E-03	154.3	31.76	194.5	97.26	UL-RL	5.5782E+04	328.8	51.19	
1.000	1.000	82.95	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							

53 D	17.29	-2.0137E-03	156.9	33.35	197.0	98.51	UL-RL	5.5782E+04	328.6	53.08
1.000	1.000	86.43	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
54 D	17.98	-1.8290E-03	159.5	34.95	199.5	99.75	UL-RL	5.5782E+04	328.4	54.97
1.000	1.000	89.92	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
55 D	18.68	-1.6503E-03	162.1	36.54	202.0	101.0	UL-RL	5.5782E+04	328.2	56.87
1.000	1.000	93.41	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
56 D	19.38	-1.4777E-03	164.8	38.13	204.5	102.3	UL-RL	5.5782E+04	328.0	58.76
1.000	1.000	96.89	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
57 D	20.08	-1.3107E-03	167.4	39.72	207.0	103.5	UL-RL	5.5782E+04	327.8	60.66
1.000	1.000	100.4	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
58 D	20.77	-1.1492E-03	170.0	41.32	209.5	104.8	UL-RL	5.5782E+04	327.6	62.55
1.000	1.000	103.9	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
59 D	21.47	-9.9288E-04	172.6	42.91	212.0	106.0	UL-RL	5.5782E+04	327.4	64.44
1.000	1.000	107.4	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
60 D	23.27	-8.4133E-04	175.2	49.99	214.5	107.3	UL-RL	5.5782E+04	327.2	66.34
1.000	1.000	116.3	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
61 D	25.54	-6.9424E-04	177.8	59.48	217.0	108.5	UL-RL	5.5782E+04	327.0	68.23
1.000	1.000	127.7	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
62 D	27.77	-5.5124E-04	180.4	68.74	219.5	109.7	UL-RL	5.5782E+04	326.8	70.12
1.000	1.000	138.9	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
63 D	29.96	-4.1188E-04	183.0	77.80	222.0	111.0	UL-RL	5.5782E+04	326.6	72.02
1.000	1.000	149.8	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
64 D	32.12	-2.7590E-04	185.6	86.67	224.5	112.2	UL-RL	5.5782E+04	326.4	73.91
1.000	1.000	160.6	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
65 D	34.24	-1.4284E-04	188.2	95.38	227.0	113.5	UL-RL	5.5782E+04	326.2	75.81
1.000	1.000	171.2	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
66 D	36.33	-1.2317E-05	190.8	103.9	229.5	114.7	UL-RL	5.5782E+04	326.0	77.70
1.000	1.000	181.6	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
67 D	38.40	1.1605E-04	193.4	112.4	232.0	116.0	UL-RL	5.5782E+04	325.8	79.59
1.000	1.000	192.0	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
68 D	39.78	2.4262E-04	196.0	117.4	234.5	118.9	UL-RL	5.5782E+04	325.6	81.49
1.000	1.000	198.9	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
69 D	40.98	3.6773E-04	198.6	121.5	237.0	122.2	UL-RL	5.5782E+04	325.4	83.38
1.000	1.000	204.9	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
70 D	42.16	4.9169E-04	201.2	125.5	239.5	125.6	UL-RL	5.5782E+04	325.2	85.28
1.000	1.000	210.8	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
71 D	43.25	6.1485E-04	203.8	129.1	242.0	129.1	UL-RL	5.5782E+04	325.0	87.17
1.000	1.000	216.3	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
72 D	44.34	7.3732E-04	206.5	132.7	244.5	132.7	V-C	1.8594E+04	324.8	89.06
1.000	1.000	221.7	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
73 D	45.43	8.5939E-04	209.1	136.2	247.0	136.2	V-C	1.8594E+04	324.6	90.96
1.000	1.000	227.1	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
74 D	46.51	9.8122E-04	211.7	139.7	249.5	139.7	V-C	1.8594E+04	324.4	92.85
1.000	1.000	232.6	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
75 D	47.60	1.1029E-03	214.3	143.2	252.0	143.2	V-C	1.8594E+04	324.2	94.75
1.000	1.000	238.0	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
76 D	24.34	1.2241E-03	216.9	146.7	254.5	146.7	V-C	1.8594E+04	324.0	96.63
1.000	1.000	243.4	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						

New Project

S T R E S S R E S U L T S F O R G R O U P N O. 2

0_R :
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 76
C U R R E N T T I M E I S 4.0000 SUBINCREMENT 00001/00001

HARDENING 2D SOIL ELEMENT

****** TOTAL STRESS FORMULATION *****

EL * TOR	FORCE UFACTOR	DISPL-Y Peq	VERTICAL-P Su_a	HORIZON.-P Su_p	MAX-V-P Cohe_a	MAX-H-P Cohe_p	STATE LAYER	STIFFNESS	Z-LEVEL ZFO	PORE	E FAC-QS
QSL	ZD	ZPL	Kz								
1	0.000	--	--	--	--	--	REMOVED	--	339.0	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
2	0.000	--	--	--	--	--	REMOVED	--	338.8	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
3	0.000	--	--	--	--	--	REMOVED	--	338.6	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
4	0.000	--	--	--	--	--	REMOVED	--	338.4	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
5	0.000	--	--	--	--	--	REMOVED	--	338.2	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
6	0.000	--	--	--	--	--	REMOVED	--	338.0	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
7	0.000	--	--	--	--	--	REMOVED	--	337.8	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
8	0.000	--	--	--	--	--	REMOVED	--	337.6	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
9	0.000	--	--	--	--	--	REMOVED	--	337.4	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
10	0.000	--	--	--	--	--	REMOVED	--	337.2	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
11	0.000	--	--	--	--	--	REMOVED	--	337.0	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
12	0.000	--	--	--	--	--	REMOVED	--	336.8	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
13	0.000	--	--	--	--	--	REMOVED	--	336.6	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
14	0.000	--	--	--	--	--	REMOVED	--	336.4	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
15	0.000	--	--	--	--	--	REMOVED	--	336.2	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
16	0.000	--	--	--	--	--	REMOVED	--	336.0	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
17	0.000	--	--	--	--	--	REMOVED	--	335.8	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
18	0.000	--	--	--	--	--	REMOVED	--	335.6	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
19	0.000	--	--	--	--	--	REMOVED	--	335.4	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
20	0.000	--	--	--	--	--	REMOVED	--	335.2	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
21	0.000	--	--	--	--	--	REMOVED	--	335.0	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
22	0.000	--	--	--	--	--	REMOVED	--	334.8	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
23	0.000	--	--	--	--	--	REMOVED	--	334.6	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
24	0.000	--	--	--	--	--	REMOVED	--	334.4	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
25	0.000	--	--	--	--	--	REMOVED	--	334.2	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
26	0.000	--	--	--	--	--	REMOVED	--	334.0	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
27	0.000	--	--	--	--	--	REMOVED	--	333.8	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
28	0.000	--	--	--	--	--	REMOVED	--	333.6	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
29	0.000	--	--	--	--	--	REMOVED	--	333.4	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
30	0.000	--	--	--	--	--	REMOVED	--	333.2	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
31 D	5.212	7.6133E-03	8.0000E-03	26.06	146.9	82.53	PASSIVE	0.000	333.0	0.000	
1.000	1.000	26.06	0.000	0.000	8.000	8.000	Salt_1270_202756_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
32 D	7.332	7.3112E-03	4.008	36.66	148.9	83.66	PASSIVE	0.000	332.8	0.000	

```
1.000       1.000       36.66       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  33 D   9.451      7.0116E-03   8.008       47.25       150.9       84.79         PASSIVE   0.000       332.6       0.000
1.000       1.000       47.25       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  34 D   11.08      6.7147E-03   10.52       53.91       152.9       85.92         PASSIVE   0.000       332.4       1.488
1.000       1.000       55.40       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  35 D   12.19      6.4210E-03   11.46       56.39       154.9       87.05         PASSIVE   0.000       332.2       4.550
1.000       1.000       60.94       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  36 D   13.30      6.1306E-03   12.40       58.88       156.9       88.18         PASSIVE   0.000       332.0       7.612
1.000       1.000       66.49       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  37 D   14.41      5.8440E-03   13.33       61.36       158.9       89.31         PASSIVE   0.000       331.8       10.67
1.000       1.000       72.04       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  38 D   15.52      5.5613E-03   14.27       63.85       160.9       90.44         PASSIVE   0.000       331.6       13.74
1.000       1.000       77.59       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  39 D   16.63      5.2833E-03   15.21       66.34       162.9       91.56         PASSIVE   0.000       331.4       16.80
1.000       1.000       83.13       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  40 D   17.74      5.0101E-03   16.15       68.82       164.9       92.69         PASSIVE   0.000       331.2       19.86
1.000       1.000       88.68       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  41 D   33.43      4.7421E-03   17.09       144.2       166.9       144.2              V-C  1.6807E+04   331.0       22.92
1.000       1.000       167.2       0.000       0.000       40.00       40.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  42 D   33.27      4.4796E-03   19.48       141.3       169.4       141.3              V-C  1.6807E+04   330.8       25.03
1.000       1.000       166.4       0.000       0.000       40.00       40.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  43 D   33.13      4.2230E-03   21.88       138.5       171.9       138.5              V-C  1.6807E+04   330.6       27.13
1.000       1.000       165.6       0.000       0.000       40.00       40.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  44 D   33.00      3.9725E-03   24.27       135.8       174.4       135.8              V-C  1.6807E+04   330.4       29.24
1.000       1.000       165.0       0.000       0.000       40.00       40.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  45 D   32.89      3.7283E-03   26.67       133.1       176.9       133.1              V-C  1.6807E+04   330.2       31.35
1.000       1.000       164.4       0.000       0.000       40.00       40.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  46 D   32.79      3.4906E-03   29.06       130.5       179.5       130.5              V-C  1.6807E+04   330.0       33.45
1.000       1.000       164.0       0.000       0.000       40.00       40.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  47 D   32.72      3.2595E-03   31.45       128.0       182.0       128.0              V-C  1.6807E+04   329.8       35.56
1.000       1.000       163.6       0.000       0.000       40.00       40.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  48 D   32.66      3.0351E-03   33.85       125.7       184.5       125.7              V-C  1.6807E+04   329.6       37.66
1.000       1.000       163.3       0.000       0.000       40.00       40.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  49 D   32.63      2.8175E-03   36.24       123.4       187.0       123.4              V-C  1.6807E+04   329.4       39.77
1.000       1.000       163.2       0.000       0.000       40.00       40.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  50 D   32.62      2.6066E-03   38.64       121.2       189.5       121.2              V-C  1.6807E+04   329.2       41.88
1.000       1.000       163.1       0.000       0.000       40.00       40.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  51 D   32.63      2.4024E-03   41.03       119.1       192.0       119.1             UL-RL  5.0420E+04   329.0       43.98
1.000       1.000       163.1       0.000       0.000       40.00       40.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  52 D   32.66      2.2048E-03   43.42       117.2       194.5       117.2             UL-RL  5.0420E+04   328.8       46.09
1.000       1.000       163.3       0.000       0.000       40.00       40.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  53 D   32.70      2.0137E-03   45.82       115.3       197.0       115.3             UL-RL  5.0420E+04   328.6       48.20
1.000       1.000       163.5       0.000       0.000       40.00       40.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  54 D   32.77      1.8290E-03   48.21       113.6       199.5       113.6             UL-RL  5.0420E+04   328.4       50.30
1.000       1.000       163.9       0.000       0.000       40.00       40.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  55 D   32.86      1.6503E-03   50.61       111.9       202.0       111.9             UL-RL  5.0420E+04   328.2       52.41
1.000       1.000       164.3       0.000       0.000       40.00       40.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  56 D   32.97      1.4777E-03   53.00       110.3       204.5       110.3             UL-RL  5.0420E+04   328.0       54.52
1.000       1.000       164.9       0.000       0.000       40.00       40.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  57 D   33.10      1.3107E-03   55.39       108.9       207.0       108.9             UL-RL  5.0420E+04   327.8       56.62
1.000       1.000       165.5       0.000       0.000       40.00       40.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  58 D   33.24      1.1492E-03   57.79       107.5       209.5       107.5             UL-RL  5.0420E+04   327.6       58.73
1.000       1.000       166.2       0.000       0.000       40.00       40.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  59 D   33.40      9.9288E-04   60.18       106.2       212.0       106.2             UL-RL  5.0420E+04   327.4       60.83
1.000       1.000       167.0       0.000       0.000       40.00       40.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  60 D   32.66      8.4133E-04   62.58       100.3       214.5       107.2             UL-RL  5.0420E+04   327.2       62.94
1.000       1.000       163.3       0.000       0.000       40.00       40.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  61 D   31.88      6.9424E-04   64.97       94.36       217.0       108.5             UL-RL  5.0420E+04   327.0       65.05
1.000       1.000       159.4       0.000       0.000       40.00       40.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  62 D   31.15      5.5124E-04   67.36       88.58       219.5       109.7             UL-RL  5.0420E+04   326.8       67.15
1.000       1.000       155.7       0.000       0.000       40.00       40.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
```

63 D	30.45	4.1188E-04	69.76	82.98	222.0	111.0	UL-RL	5.0420E+04	326.6	69.26
1.000	1.000	152.2	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
64 D	29.78	2.7590E-04	72.15	77.54	224.5	112.2	UL-RL	5.0420E+04	326.4	71.37
1.000	1.000	148.9	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
65 D	29.14	1.4284E-04	74.55	72.24	227.0	113.5	UL-RL	5.0420E+04	326.2	73.47
1.000	1.000	145.7	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
66 D	28.53	1.2317E-05	76.94	67.05	229.5	114.7	UL-RL	5.0420E+04	326.0	75.58
1.000	1.000	142.6	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
67 D	27.93	-1.1605E-04	79.33	61.97	232.0	116.0	UL-RL	5.0420E+04	325.8	77.68
1.000	1.000	139.7	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
68 D	27.35	-2.4262E-04	81.73	56.98	234.5	117.2	UL-RL	5.0420E+04	325.6	79.79
1.000	1.000	136.8	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
69 D	26.79	-3.6773E-04	84.12	52.05	237.0	118.5	UL-RL	5.0420E+04	325.4	81.90
1.000	1.000	133.9	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
70 D	26.24	-4.9169E-04	86.52	47.18	239.5	119.7	UL-RL	5.0420E+04	325.2	84.00
1.000	1.000	131.2	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
71 D	25.69	-6.1485E-04	88.91	42.34	242.0	121.0	UL-RL	5.0420E+04	325.0	86.11
1.000	1.000	128.4	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
72 D	25.15	-7.3732E-04	91.30	37.53	244.5	122.2	UL-RL	5.0420E+04	324.8	88.22
1.000	1.000	125.7	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
73 D	24.61	-8.5939E-04	93.70	32.73	247.0	123.5	UL-RL	5.0420E+04	324.6	90.32
1.000	1.000	123.1	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
74 D	24.07	-9.8122E-04	96.09	27.94	249.5	124.7	UL-RL	5.0420E+04	324.4	92.43
1.000	1.000	120.4	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
75 D	23.54	-1.1029E-03	98.49	23.16	252.0	126.0	UL-RL	5.0420E+04	324.2	94.53
1.000	1.000	117.7	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
76 D	11.50	-1.2241E-03	100.9	18.39	254.5	127.2	UL-RL	5.0420E+04	324.0	96.63
1.000	1.000	115.0	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						

New Project

S T R E S S   R E S U L T S   F O R   G R O U P   N O.   3

Pali1500_253215   :
ELEMENT TYPE   2 NO.OF ELEMENTS. IN THIS GROUP   75
C U R R E N T   T I M E   I S   4.0000 SUBINCREMENT 00001/00001

 WALL2D ELEMENT

EL	TA	TB	MA	MB
1	-9.32214E-09	9.32214E-09	-9.34236E-10	-3.34972E-09
2	-3.40114E-09	3.40114E-09	2.08026E-09	-2.12067E-09
3	1.57429E-08	-1.57429E-08	3.35363E-09	-3.97442E-10
4	4.27525E-12	-4.27525E-12	1.97534E-09	-3.49498E-09
5	-7.66914E-09	7.66914E-09	2.72307E-09	-5.31104E-09
6	-2.17099E-09	2.17099E-09	4.32999E-09	-2.59149E-09
7	5.23910E-09	-5.23910E-09	2.89513E-09	-2.37136E-09
8	0.10151	-0.10151	2.31412E-09	2.03011E-02
9	0.54577	-0.54577	-2.03011E-02	0.12946
10	1.4060	-1.4060	-0.12946	0.41066
11	2.6823	-2.6823	-0.41066	0.94713
12	4.3746	-4.3746	-0.94713	1.8220
13	6.4829	-6.4829	-1.8220	3.1193
14	9.0074	-9.0074	-3.1193	4.9207
15	11.948	-11.948	-4.9207	7.3103
16	15.304	-15.304	-7.3103	10.371
17	19.077	-19.077	-10.371	14.187
18	23.265	-23.265	-14.187	18.840
19	27.870	-27.870	-18.840	24.414
20	32.890	-32.890	-24.414	30.992
21	40.600	-40.600	-30.992	39.116
22	48.873	-48.873	-39.116	48.890
23	57.708	-57.708	-48.890	60.432
24	67.107	-67.107	-60.432	73.853
25	77.069	-77.069	-73.853	89.267
26	87.594	-87.594	-89.267	106.79
27	98.682	-98.682	-106.79	126.52
28	110.33	-110.33	-126.52	148.59
29	122.55	-122.55	-148.59	173.11
30	135.32	-135.32	-173.11	200.17
31	143.45	-143.45	-200.17	228.87
32	150.02	-150.02	-228.87	258.87
33	155.04	-155.04	-258.87	289.88
34	158.99	-158.99	-289.88	321.67
35	162.39	-162.39	-321.67	354.15
36	165.25	-165.25	-354.15	387.20
37	167.56	-167.56	-387.20	420.73
38	169.32	-169.32	-420.73	454.60
39	170.54	-170.54	-454.60	488.70
40	171.21	-171.21	-488.70	522.95
41	146.70	-146.70	-522.95	552.29
42	123.04	-123.04	-552.29	576.89
43	100.23	-100.23	-576.89	596.94
44	78.239	-78.239	-596.94	612.59
45	57.061	-57.061	-612.59	624.00
46	36.673	-36.673	-624.00	631.34
47	17.057	-17.057	-631.34	634.75
48	-1.8072	1.8072	-634.75	634.39
49	-19.941	19.941	-634.39	630.40
50	-37.365	37.365	-630.40	622.93
51	-54.099	54.099	-622.93	612.11
52	-70.165	70.165	-612.11	598.07
53	-85.582	85.582	-598.07	580.96
54	-100.37	100.37	-580.96	560.87
55	-114.55	114.55	-560.87	537.96
56	-128.14	128.14	-537.96	512.33
57	-141.16	141.16	-512.33	484.10
58	-153.63	153.63	-484.10	453.38
59	-165.56	165.56	-453.38	420.26
60	-174.95	174.95	-420.26	385.27
61	-181.29	181.29	-385.27	349.02
62	-184.66	184.66	-349.02	312.07
63	-185.15	185.15	-312.07	275.04
64	-182.81	182.81	-275.04	238.47
65	-177.71	177.71	-238.47	202.93
66	-169.91	169.91	-202.93	168.95
67	-159.45	159.45	-168.95	137.06
68	-147.02	147.02	-137.06	107.66
69	-132.83	132.83	-107.66	81.089
70	-116.91	116.91	-81.089	57.697

71	-99.340	99.340	-57.697	37.829
72	-80.146	80.146	-37.829	21.799
73	-59.329	59.329	-21.799	9.9337
74	-36.891	36.891	-9.9337	2.5554
75	-12.835	12.835	-2.5554	-1.08611E-10

```
+-------------------------------------------------------------------------------------------------------------------------+
|                   PARATIEPLUS(TM)   NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*              |
|                                                                                                                         |
|                                                ParatiePlus                                                              |
|                                 Exe Time :28 January 2022   16:22:49                                                    |
+-------------------------------------------------------------------------------------------------------------------------+


     F I N A L    I N C R E M E N T A L    A N A L Y S I S

                    S U M M A R Y

     STEP                                    NO. OF ITERATIONS

        1           CONVERGENCE :YES                        2
        2           CONVERGENCE :YES                        2
        3           CONVERGENCE :YES                        7
        4           CONVERGENCE :YES                        2


 END OF PROCESS FOR PROBLEM
New Project
NONLINEAR SOLUTION CPU TIME ....    0.06 [sec]
DATABASE  CREATION CPU TIME.....    0.18 [sec]
```

8.9. Design Assumption : SISMICA STR - File di Paratie - File di input (.d)

```
* PARATIE ANALYSIS FOR DESIGN SECTION:Base Design Section USING ASSUMPTION: SISMICA STR
 * Time:venerdì 28 gennaio 2022 16:22:50
 * 1: Defining general settings
 UNIT  m kN
 TITLE New Project
 DELTA 0.2
 option param itemax 80
 option control contact lagrange

 option control hinges 0 0.0001 0.001

 * 2: Defining wall(s)
 WALL LeftWall_36 10 324 339 1

 * 3: Defining surfaces for wall(s)
 SOIL 0_L LeftWall_36 324 339 1 0
 SOIL 0_R LeftWall_36 324 339 2 180

 * 4: Defining soil layers
 *
 * Soil Profile (Aate_364268_2050_L_0)
 *
 LDATA Aate_364268_2050_L_0 343 LeftWall_36
 ATREST 0.5 0.5 1
 WEIGHT 19 9 10
 PERMEABILITY 1E-05
 RESISTANCE 10 31 0 0 0
 TZDATA  LINEAR 10000 0 25 0.5 0
 KSCALE  0 0
 YOUNG 40000 1.2E+05
 ENDL
 *
 * Soil Profile (Salt_1270_202756_L_0)
 *
 LDATA Salt_1270_202756_L_0 335 LeftWall_36
 ATREST 0.562 0.5 1
 WEIGHT 20 10 10
 PERMEABILITY 1E-05
 RESISTANCE 10 26 0 0 0
 TZDATA  LINEAR 10000 0 25 0.5 0
 KSCALE  0 0
 YOUNG 2E+05 6E+05
 ENDL
 *
 * Soil Profile (Pa_244788_244789_L_0)
 *
 LDATA Pa_244788_244789_L_0 331 LeftWall_36
 ATREST 0.5 0.5 1
 WEIGHT 22.5 12.5 10
 PERMEABILITY 0.0001
 RESISTANCE 50 27 0 0 0
 TZDATA  LINEAR 20000 0 30 0.5 0
 KSCALE  0 0
 YOUNG 1E+05 3E+05
 ENDL

 * 5: Defining structural materials
 * Steel material: 114 Name=Fe360 E=206000200 kPa
 MATERIAL Fe360_114 2.06E+08
 * Concrete material: 112 Name=C32/40 E=33345800 kPa
 MATERIAL C3240_112 3.3346E+07

 * 6: Defining structural elements
 * 6.1: Beams and combined Wall Elements
 ** rev 2021 and later
 BEAM Pali1500_253215 LeftWall_36 324 339 C3240_112 1.1067 0.80325 0.11296 20.081 00 00 0


 * 6.2: Supports




 * 6.3: Strips

 * 7: Defining Steps
 STEP AnteOperam_1747
 CHANGE Aate_364268_2050_L_0 U-FRICT=31 LeftWall_36
 CHANGE Aate_364268_2050_L_0 D-FRICT=31 LeftWall_36
 CHANGE Aate_364268_2050_L_0 U-KA=0.303 LeftWall_36
 CHANGE Aate_364268_2050_L_0 U-KP=3.803 LeftWall_36
 CHANGE Aate_364268_2050_L_0 D-KA=0.34 LeftWall_36
 CHANGE Aate_364268_2050_L_0 D-KP=4.555 LeftWall_36
 CHANGE Salt_1270_202756_L_0 U-FRICT=26 LeftWall_36
 CHANGE Salt_1270_202756_L_0 D-FRICT=26 LeftWall_36
```

```
CHANGE Salt_1270_202756_L_0 U-KA=0.368 LeftWall_36
CHANGE Salt_1270_202756_L_0 U-KP=2.867 LeftWall_36
CHANGE Salt_1270_202756_L_0 D-KA=0.418 LeftWall_36
CHANGE Salt_1270_202756_L_0 D-KP=3.404 LeftWall_36
CHANGE Pa_244788_244789_L_0 U-FRICT=27 LeftWall_36
CHANGE Pa_244788_244789_L_0 D-FRICT=27 LeftWall_36
CHANGE Pa_244788_244789_L_0 U-KA=0.355 LeftWall_36
CHANGE Pa_244788_244789_L_0 U-KP=2.998 LeftWall_36
CHANGE Pa_244788_244789_L_0 D-KA=0.401 LeftWall_36
CHANGE Pa_244788_244789_L_0 D-KP=3.601 LeftWall_36
CHANGE Aate_364268_2050_L_0 U-COHE=10 LeftWall_36
CHANGE Aate_364268_2050_L_0 U-ADHES=0 LeftWall_36
CHANGE Aate_364268_2050_L_0 D-COHE=10 LeftWall_36
CHANGE Aate_364268_2050_L_0 D-ADHES=0 LeftWall_36
CHANGE Salt_1270_202756_L_0 U-COHE=10 LeftWall_36
CHANGE Salt_1270_202756_L_0 U-ADHES=0 LeftWall_36
CHANGE Salt_1270_202756_L_0 D-COHE=10 LeftWall_36
CHANGE Salt_1270_202756_L_0 D-ADHES=0 LeftWall_36
CHANGE Pa_244788_244789_L_0 U-COHE=50 LeftWall_36
CHANGE Pa_244788_244789_L_0 U-ADHES=0 LeftWall_36
CHANGE Pa_244788_244789_L_0 D-COHE=50 LeftWall_36
CHANGE Pa_244788_244789_L_0 D-ADHES=0 LeftWall_36
SETWALL LeftWall_36
GEOM 343 343
SURCHARGE 0 0 0 0
WATER 337.47 -0.066047 324 0 0
ENDSTEP

STEP Pre-scavo+Pali_244791
CHANGE Aate_364268_2050_L_0 U-KA=0.322 LeftWall_36
CHANGE Aate_364268_2050_L_0 U-KP=4.555 LeftWall_36
CHANGE Aate_364268_2050_L_0 D-KA=0.32 LeftWall_36
CHANGE Salt_1270_202756_L_0 U-KA=0.491 LeftWall_36
CHANGE Salt_1270_202756_L_0 U-KP=3.404 LeftWall_36
CHANGE Salt_1270_202756_L_0 D-KA=0.39 LeftWall_36
CHANGE Pa_244788_244789_L_0 U-KA=0.481 LeftWall_36
CHANGE Pa_244788_244789_L_0 U-KP=3.601 LeftWall_36
CHANGE Pa_244788_244789_L_0 D-KA=0.376 LeftWall_36
SETWALL LeftWall_36
GEOM 339 339
SURCHARGE 0 0 0 0
WATER 337.47 -0.039326 324 0 0
ADD Pali1500_253215
ENDSTEP

STEP Scavofinale_252903
SETWALL LeftWall_36
GEOM 339 333
SURCHARGE 0 0 0 0
WATER 337.47 4.9732 324 0 0
ENDSTEP

STEP Sisma_284297
SETWALL LeftWall_36
GEOM 339 333
SURCHARGE 0 0 0 0
WATER 337.47 4.9732 324 0 0
CHANGE Aate_364268_2050_L_0 U-KAED=0.44088 LeftWall_36
CHANGE Aate_364268_2050_L_0 U-KAEW=0.5814 LeftWall_36
CHANGE Aate_364268_2050_L_0 U-KPED=4.441 LeftWall_36
CHANGE Aate_364268_2050_L_0 U-KPEW=3.7963 LeftWall_36
CHANGE Aate_364268_2050_L_0 D-KAED=0.39225 LeftWall_36
CHANGE Aate_364268_2050_L_0 D-KAEW=0.54154 LeftWall_36
CHANGE Aate_364268_2050_L_0 D-KPED=3.7685 LeftWall_36
CHANGE Aate_364268_2050_L_0 D-KPEW=3.0916 LeftWall_36
CHANGE Salt_1270_202756_L_0 U-KAED=0.7584 LeftWall_36
CHANGE Salt_1270_202756_L_0 U-KAEW=1.1113 LeftWall_36
CHANGE Salt_1270_202756_L_0 U-KPED=3.2803 LeftWall_36
CHANGE Salt_1270_202756_L_0 U-KPEW=2.7847 LeftWall_36
CHANGE Salt_1270_202756_L_0 D-KAED=0.46829 LeftWall_36
CHANGE Salt_1270_202756_L_0 D-KAEW=0.625 LeftWall_36
CHANGE Salt_1270_202756_L_0 D-KPED=2.7754 LeftWall_36
CHANGE Salt_1270_202756_L_0 D-KPEW=2.2487 LeftWall_36
CHANGE Pa_244788_244789_L_0 U-KAED=0.76054 LeftWall_36
CHANGE Pa_244788_244789_L_0 U-KAEW=1.077 LeftWall_36
CHANGE Pa_244788_244789_L_0 U-KPED=3.4777 LeftWall_36
CHANGE Pa_244788_244789_L_0 U-KPEW=3.0819 LeftWall_36
CHANGE Pa_244788_244789_L_0 D-KAED=0.45252 LeftWall_36
CHANGE Pa_244788_244789_L_0 D-KAEW=0.56751 LeftWall_36
CHANGE Pa_244788_244789_L_0 D-KPED=2.9451 LeftWall_36
CHANGE Pa_244788_244789_L_0 D-KPEW=2.5269 LeftWall_36
EQK USER 0.1454 0.0727 -0.0727 0 0.5 0 0.5 0 0
* Defining seismic surcharge pressures on wall LeftWall_36
*          min elevation = 333
*          max elevation = 339
*          average gamma = 19,3333333333333
*                     kh = 0,1454
*                deltaQ = 75,8988
DLOAD step LeftWall_36 333 12.65 339 12.65
* Include pressure contribution from wall: LeftWall_36
* Include wall contribution
DLOAD step LeftWall_36 333 2.9198 339 2.9198
```

```
ENDSTEP
```

8.10. Design Assumption : SISMICA STR - File di Paratie - File di output (.out)

```
+-------------------------------------------------------------------------------------------------------------------------------+
|                  PARATIEPLUS(TM)   NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*                     |
|                                                                                                                               |
|                                                ParatiePlus                                                                    |
|                              Exe Time :28 January 2022   16:22:50                                                             |
+-------------------------------------------------------------------------------------------------------------------------------+

                    ********************************************************
                    *                                                      *
                    *  PARATIE PLUS Non-Linear Spring Engine               *
                    *                                                      *
                    *          AN ELASTOPLASTIC FINITE ELEMENT PROGRAM     *
                    *          FOR FLEXIBLE EARTH-RETAINING STRUCTURES     *
                    *                                                      *
                    *          Written by CEAS s.r.l. (ITALY)              *
                    *          with the scientific supervision of          *
                    *          Roberto Nova - full professor SOIL MECHANICS*
                    *          at Politecnico di Milano (ITALY)            *
                    *                                                      *
                    ********************************************************
                    *                                                      *
                    *  RELEASE   2022.0.0   *Build date:Sep 13, 2021*      *
                    *                                                      *
                    *                                                      *
                    *  CEAS S.R.L  VIALE   GIUSTINIANO 10                  *
                    *              20129   M I L A N O  (ITALIA)           *
                    *  TEL.        +39 02 2020221                          *
                    *                                                      *
                    *  email       bruno.becci@ceas.it                     *
                    *  Web Page    www.ceas.it     www.paratieplus.com     *
                    ********************************************************



 JOB : ParatiePlus
 STARTING
ACCEPTED   &lt;FILE,GENW                                                                    &gt;
ACCEPTED   &lt;FILE,PLOTTER,BINARY                                                          &gt;
ACCEPTED   &lt;SOLVE TOTAL_STRESS                                                           &gt;
ACCEPTED   &lt;PARAM ITEMAX 80                                                              &gt;
ACCEPTED   &lt;CONTROL CONTACT LAGRANGE                                                     &gt;
ACCEPTED   &lt;CONTROL HINGES 0 0.0001 0.001                                                &gt;



                    ********************************************************
                    *                                                      *
                    *  WARNING : PORE PRESSURES ARE AUTOMATICALLY COMPUTED  *
                    *    BY THE PROGRAM.                                   *
                    ********************************************************

PRELIMINARY OPERATIONS CPU TIME     0.00 [sec]
```

```
+-----------------------------------------------------------------------------------------------------------------------+
|                   PARATIEPLUS(TM)   NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*             |
|                                                                                                                       |
|                                                ParatiePlus                                                            |
|                                Exe Time :28 January 2022   16:22:50                                                   |
+-----------------------------------------------------------------------------------------------------------------------+


INPUT FILE HAS BEEN GENERATED BY WALGEN PROGRAM


New Project


NO. OF NODAL POINTS (NUMNP) ...................   76
NO. OF COORDINATES  (NCOORD)...................    2
NO. OF NODE DOFS    (NDOF).....................    2
NO. OF EQUATIONS    (NEQ)...................... 152
NO. OF CONSTRAINTS CARDS (NVINC)...............    0
NO. OF ELEMENT GROUPS (NEG)....................    3
NO. OF SOLUTION STEPS (NSTE)...................    4
NO. OF ELEMENT SETS ATTACHED TO SLAVE NODES ...    0
NO. OF RECORD FROM WALGEN ..................... 130
NO. OF LONG NAMES (LASTNAME) ..................   17
LENGTH UNIT CHOICE ............................    3 (M   )
FORCE  UNIT CHOICE ............................    3 (KN  )
MAX PORE PRESSURE TABLE LENGTH.................    1
MAX INELASTIC DISPL. TABLE LENGTH..............    0
NO. OF ELEMENT GROUPS REQUIRING ADD. SLIP DOF .    0


IDOFA (01) =  2  Y-DISPL.F
IDOFA (02) =  4   X-ROT. F

 RELEVANT ITEMS UNITS

 STRESSES                  kPa
 Y-DISPLACEMENTS           m
 ROTATIONS                 RADIANS
 BEAM AND SLAB MOMENTS     kN*m/m
 BEAM SHEAR FORCES         kN/m
 ANCHOR FORCES             kN/m
 AXIAL FORCES IN TRUSSES   kN/m
 AXIAL FORCES SPRINGS      kN/m
 Y-REACTIONS               kN/m
 X-MOMENT REACTIONS        kN*m/m
 ETC.
```

```
+-------------------------------------------------------------------------------------------------------------------------+
|                   PARATIEPLUS(TM)   NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*              |
|                                                                                                                         |
|                                              ParatiePlus                                                                |
|                                  Exe Time :28 January 2022   16:22:50                                                   |
+-------------------------------------------------------------------------------------------------------------------------+
                   P R E P R O C E S S O R     D A T A

                   N O.  O F   C O M M A N D S    130

    1 : UNIT  m kN
    2 : TITLE New Project
    3 : DELTA 0.2
    4 : option param itemax 80
    5 : option control contact lagrange
    6 : option control hinges 0 0.0001 0.001
    7 : WALL LeftWall_36 10 324 339 1
    8 : SOIL 0_L LeftWall_36 324 339 1 0
    9 : SOIL 0_R LeftWall_36 324 339 2 180
   10 : LDATA Aate_364268_2050_L_0 343 LeftWall_36
   11 : ATREST 0.5 0.5 1
   12 : WEIGHT 19 9 10
   13 : PERMEABILITY 1E-05
   14 : RESISTANCE 10 31 0 0 0
   15 : TZDATA  LINEAR 10000 0 25 0.5 0
   16 : KSCALE  0 0
   17 : YOUNG 40000 1.2E+05
   18 : ENDL
   19 : LDATA Salt_1270_202756_L_0 335 LeftWall_36
   20 : ATREST 0.562 0.5 1
   21 : WEIGHT 20 10 10
   22 : PERMEABILITY 1E-05
   23 : RESISTANCE 10 26 0 0 0
   24 : TZDATA  LINEAR 10000 0 25 0.5 0
   25 : KSCALE  0 0
   26 : YOUNG 2E+05 6E+05
   27 : ENDL
   28 : LDATA Pa_244788_244789_L_0 331 LeftWall_36
   29 : ATREST 0.5 0.5 1
   30 : WEIGHT 22.5 12.5 10
   31 : PERMEABILITY 0.0001
   32 : RESISTANCE 50 27 0 0 0
   33 : TZDATA  LINEAR 20000 0 30 0.5 0
   34 : KSCALE  0 0
   35 : YOUNG 1E+05 3E+05
   36 : ENDL
   37 : MATERIAL Fe360_114 2.06E+08
   38 : MATERIAL C3240_112 3.3346E+07
   39 : BEAM Pali1500_253215 LeftWall_36 324 339 C3240_112 1.1067 0.80325 0.11296 20.081 00 00 0
   40 : STEP AnteOperam_1747
   41 : CHANGE Aate_364268_2050_L_0 U-FRICT=31 LeftWall_36
   42 : CHANGE Aate_364268_2050_L_0 D-FRICT=31 LeftWall_36
   43 : CHANGE Aate_364268_2050_L_0 U-KA=0.303 LeftWall_36
   44 : CHANGE Aate_364268_2050_L_0 U-KP=3.803 LeftWall_36
   45 : CHANGE Aate_364268_2050_L_0 D-KA=0.34 LeftWall_36
   46 : CHANGE Aate_364268_2050_L_0 D-KP=4.555 LeftWall_36
   47 : CHANGE Salt_1270_202756_L_0 U-FRICT=26 LeftWall_36
   48 : CHANGE Salt_1270_202756_L_0 D-FRICT=26 LeftWall_36
   49 : CHANGE Salt_1270_202756_L_0 U-KA=0.368 LeftWall_36
   50 : CHANGE Salt_1270_202756_L_0 U-KP=2.867 LeftWall_36
   51 : CHANGE Salt_1270_202756_L_0 D-KA=0.418 LeftWall_36
   52 : CHANGE Salt_1270_202756_L_0 D-KP=3.404 LeftWall_36
   53 : CHANGE Pa_244788_244789_L_0 U-FRICT=27 LeftWall_36
   54 : CHANGE Pa_244788_244789_L_0 D-FRICT=27 LeftWall_36
   55 : CHANGE Pa_244788_244789_L_0 U-KA=0.355 LeftWall_36
   56 : CHANGE Pa_244788_244789_L_0 U-KP=2.998 LeftWall_36
   57 : CHANGE Pa_244788_244789_L_0 D-KA=0.401 LeftWall_36
   58 : CHANGE Pa_244788_244789_L_0 D-KP=3.601 LeftWall_36
   59 : CHANGE Aate_364268_2050_L_0 U-COHE=10 LeftWall_36
   60 : CHANGE Aate_364268_2050_L_0 U-ADHES=0 LeftWall_36
   61 : CHANGE Aate_364268_2050_L_0 D-COHE=10 LeftWall_36
   62 : CHANGE Aate_364268_2050_L_0 D-ADHES=0 LeftWall_36
   63 : CHANGE Salt_1270_202756_L_0 U-COHE=10 LeftWall_36
   64 : CHANGE Salt_1270_202756_L_0 U-ADHES=0 LeftWall_36
   65 : CHANGE Salt_1270_202756_L_0 D-COHE=10 LeftWall_36
   66 : CHANGE Salt_1270_202756_L_0 D-ADHES=0 LeftWall_36
   67 : CHANGE Pa_244788_244789_L_0 U-COHE=50 LeftWall_36
   68 : CHANGE Pa_244788_244789_L_0 U-ADHES=0 LeftWall_36
   69 : CHANGE Pa_244788_244789_L_0 D-COHE=50 LeftWall_36
   70 : CHANGE Pa_244788_244789_L_0 D-ADHES=0 LeftWall_36
   71 : SETWALL LeftWall_36
   72 : GEOM 343 343
   73 : SURCHARGE 0 0 0 0
   74 : WATER 337.47 -0.066047 324 0 0
   75 : ENDSTEP
   76 : STEP Pre-scavo+Pali_244791
   77 : CHANGE Aate_364268_2050_L_0 U-KA=0.322 LeftWall_36
   78 : CHANGE Aate_364268_2050_L_0 U-KP=4.555 LeftWall_36
   79 : CHANGE Aate_364268_2050_L_0 D-KA=0.32 LeftWall_36
```

```
 80 : CHANGE Salt_1270_202756_L_0 U-KA=0.491 LeftWall_36
 81 : CHANGE Salt_1270_202756_L_0 U-KP=3.404 LeftWall_36
 82 : CHANGE Salt_1270_202756_L_0 D-KA=0.39 LeftWall_36
 83 : CHANGE Pa_244788_244789_L_0 U-KA=0.481 LeftWall_36
 84 : CHANGE Pa_244788_244789_L_0 U-KP=3.601 LeftWall_36
 85 : CHANGE Pa_244788_244789_L_0 D-KA=0.376 LeftWall_36
 86 : SETWALL LeftWall_36
 87 : GEOM 339 339
 88 : SURCHARGE 0 0 0 0
 89 : WATER 337.47 -0.039326 324 0 0
 90 : ADD Pali1500_253215
 91 : ENDSTEP
 92 : STEP Scavofinale_252903
 93 : SETWALL LeftWall_36
 94 : GEOM 339 333
 95 : SURCHARGE 0 0 0 0
 96 : WATER 337.47 4.9732 324 0 0
 97 : ENDSTEP
 98 : STEP Sisma_284297
 99 : SETWALL LeftWall_36
100 : GEOM 339 333
101 : SURCHARGE 0 0 0 0
102 : WATER 337.47 4.9732 324 0 0
103 : CHANGE Aate_364268_2050_L_0 U-KAED=0.44088 LeftWall_36
104 : CHANGE Aate_364268_2050_L_0 U-KAEW=0.5814 LeftWall_36
105 : CHANGE Aate_364268_2050_L_0 U-KPED=4.441 LeftWall_36
106 : CHANGE Aate_364268_2050_L_0 U-KPEW=3.7963 LeftWall_36
107 : CHANGE Aate_364268_2050_L_0 D-KAED=0.39225 LeftWall_36
108 : CHANGE Aate_364268_2050_L_0 D-KAEW=0.54154 LeftWall_36
109 : CHANGE Aate_364268_2050_L_0 D-KPED=3.7685 LeftWall_36
110 : CHANGE Aate_364268_2050_L_0 D-KPEW=3.0916 LeftWall_36
111 : CHANGE Salt_1270_202756_L_0 U-KAED=0.7584 LeftWall_36
112 : CHANGE Salt_1270_202756_L_0 U-KAEW=1.1113 LeftWall_36
113 : CHANGE Salt_1270_202756_L_0 U-KPED=3.2803 LeftWall_36
114 : CHANGE Salt_1270_202756_L_0 U-KPEW=2.7847 LeftWall_36
115 : CHANGE Salt_1270_202756_L_0 D-KAED=0.46829 LeftWall_36
116 : CHANGE Salt_1270_202756_L_0 D-KAEW=0.625 LeftWall_36
117 : CHANGE Salt_1270_202756_L_0 D-KPED=2.7754 LeftWall_36
118 : CHANGE Salt_1270_202756_L_0 D-KPEW=2.2487 LeftWall_36
119 : CHANGE Pa_244788_244789_L_0 U-KAED=0.76054 LeftWall_36
120 : CHANGE Pa_244788_244789_L_0 U-KAEW=1.077 LeftWall_36
121 : CHANGE Pa_244788_244789_L_0 U-KPED=3.4777 LeftWall_36
122 : CHANGE Pa_244788_244789_L_0 U-KPEW=3.0819 LeftWall_36
123 : CHANGE Pa_244788_244789_L_0 D-KAED=0.45252 LeftWall_36
124 : CHANGE Pa_244788_244789_L_0 D-KAEW=0.56751 LeftWall_36
125 : CHANGE Pa_244788_244789_L_0 D-KPED=2.9451 LeftWall_36
126 : CHANGE Pa_244788_244789_L_0 D-KPEW=2.5269 LeftWall_36
127 : EQK USER 0.1454 0.0727 -0.0727 0 0.5 0 0.5 0 0
128 : DLOAD step LeftWall_36 333 12.65 339 12.65
129 : DLOAD step LeftWall_36 333 2.9198 339 2.9198
130 : ENDSTEP
```

N O D A L P O I N T D A T A

NODE	Y-COORD	Z-COORD	/ NODE	Y-COORD	Z-COORD	/ NODE	Y-COORD	Z-COORD	/ NODE	Y-COORD	Z-COORD	/
1	10.000	339.00	/ 2	10.000	338.80	/ 3	10.000	338.60	/ 4	10.000	338.40	/
5	10.000	338.20	/ 6	10.000	338.00	/ 7	10.000	337.80	/ 8	10.000	337.60	/
9	10.000	337.40	/ 10	10.000	337.20	/ 11	10.000	337.00	/ 12	10.000	336.80	/
13	10.000	336.60	/ 14	10.000	336.40	/ 15	10.000	336.20	/ 16	10.000	336.00	/
17	10.000	335.80	/ 18	10.000	335.60	/ 19	10.000	335.40	/ 20	10.000	335.20	/
21	10.000	335.00	/ 22	10.000	334.80	/ 23	10.000	334.60	/ 24	10.000	334.40	/
25	10.000	334.20	/ 26	10.000	334.00	/ 27	10.000	333.80	/ 28	10.000	333.60	/
29	10.000	333.40	/ 30	10.000	333.20	/ 31	10.000	333.00	/ 32	10.000	332.80	/
33	10.000	332.60	/ 34	10.000	332.40	/ 35	10.000	332.20	/ 36	10.000	332.00	/
37	10.000	331.80	/ 38	10.000	331.60	/ 39	10.000	331.40	/ 40	10.000	331.20	/
41	10.000	331.00	/ 42	10.000	330.80	/ 43	10.000	330.60	/ 44	10.000	330.40	/
45	10.000	330.20	/ 46	10.000	330.00	/ 47	10.000	329.80	/ 48	10.000	329.60	/
49	10.000	329.40	/ 50	10.000	329.20	/ 51	10.000	329.00	/ 52	10.000	328.80	/
53	10.000	328.60	/ 54	10.000	328.40	/ 55	10.000	328.20	/ 56	10.000	328.00	/
57	10.000	327.80	/ 58	10.000	327.60	/ 59	10.000	327.40	/ 60	10.000	327.20	/
61	10.000	327.00	/ 62	10.000	326.80	/ 63	10.000	326.60	/ 64	10.000	326.40	/
65	10.000	326.20	/ 66	10.000	326.00	/ 67	10.000	325.80	/ 68	10.000	325.60	/
69	10.000	325.40	/ 70	10.000	325.20	/ 71	10.000	325.00	/ 72	10.000	324.80	/
73	10.000	324.60	/ 74	10.000	324.40	/ 75	10.000	324.20	/ 76	10.000	324.00	/

 ELEMENT GROUP NO. 1

0_L   :
   5 76   0   1   0   0   0   0   0   0   0   0   0   0   0   3   0   0   0   0
....
.....2D PLASTIC SOIL ....
....

element group behaviour throughout stage analysis

stage	status
1	active
2	active
3	active
4	active

 material set no.   1

 prop(1) angle   0.00000
 prop(2) layer as foreseen 1.00000

 material set no.   2

 prop(1) angle   0.00000
 prop(2) layer as foreseen 2.00000

 material set no.   3

 prop(1) angle   0.00000
 prop(2) layer as foreseen 3.00000

 element data

el	n	mat	area	.....	.....	.....	flag
1	1	1	0.1000	0.000	0.000	0.000	1.000
2	2	1	0.2000	0.000	0.000	0.000	1.000
3	3	1	0.2000	0.000	0.000	0.000	1.000
4	4	1	0.2000	0.000	0.000	0.000	1.000
5	5	1	0.2000	0.000	0.000	0.000	1.000
6	6	1	0.2000	0.000	0.000	0.000	1.000
7	7	1	0.2000	0.000	0.000	0.000	1.000
8	8	1	0.2000	0.000	0.000	0.000	1.000
9	9	1	0.2000	0.000	0.000	0.000	1.000
10	10	1	0.2000	0.000	0.000	0.000	1.000
11	11	1	0.2000	0.000	0.000	0.000	1.000
12	12	1	0.2000	0.000	0.000	0.000	1.000
13	13	1	0.2000	0.000	0.000	0.000	1.000
14	14	1	0.2000	0.000	0.000	0.000	1.000
15	15	1	0.2000	0.000	0.000	0.000	1.000
16	16	1	0.2000	0.000	0.000	0.000	1.000
17	17	1	0.2000	0.000	0.000	0.000	1.000
18	18	1	0.2000	0.000	0.000	0.000	1.000
19	19	1	0.2000	0.000	0.000	0.000	1.000
20	20	1	0.2000	0.000	0.000	0.000	1.000
21	21	2	0.2000	0.000	0.000	0.000	1.000
22	22	2	0.2000	0.000	0.000	0.000	1.000
23	23	2	0.2000	0.000	0.000	0.000	1.000
24	24	2	0.2000	0.000	0.000	0.000	1.000
25	25	2	0.2000	0.000	0.000	0.000	1.000
26	26	2	0.2000	0.000	0.000	0.000	1.000
27	27	2	0.2000	0.000	0.000	0.000	1.000
28	28	2	0.2000	0.000	0.000	0.000	1.000
29	29	2	0.2000	0.000	0.000	0.000	1.000
30	30	2	0.2000	0.000	0.000	0.000	1.000
31	31	2	0.2000	0.000	0.000	0.000	1.000
32	32	2	0.2000	0.000	0.000	0.000	1.000
33	33	2	0.2000	0.000	0.000	0.000	1.000
34	34	2	0.2000	0.000	0.000	0.000	1.000
35	35	2	0.2000	0.000	0.000	0.000	1.000
36	36	2	0.2000	0.000	0.000	0.000	1.000
37	37	2	0.2000	0.000	0.000	0.000	1.000
38	38	2	0.2000	0.000	0.000	0.000	1.000
39	39	2	0.2000	0.000	0.000	0.000	1.000
40	40	2	0.2000	0.000	0.000	0.000	1.000
41	41	3	0.2000	0.000	0.000	0.000	1.000
42	42	3	0.2000	0.000	0.000	0.000	1.000
43	43	3	0.2000	0.000	0.000	0.000	1.000

44	44	3	0.2000	0.000	0.000	0.000	1.000
45	45	3	0.2000	0.000	0.000	0.000	1.000
46	46	3	0.2000	0.000	0.000	0.000	1.000
47	47	3	0.2000	0.000	0.000	0.000	1.000
48	48	3	0.2000	0.000	0.000	0.000	1.000
49	49	3	0.2000	0.000	0.000	0.000	1.000
50	50	3	0.2000	0.000	0.000	0.000	1.000
51	51	3	0.2000	0.000	0.000	0.000	1.000
52	52	3	0.2000	0.000	0.000	0.000	1.000
53	53	3	0.2000	0.000	0.000	0.000	1.000
54	54	3	0.2000	0.000	0.000	0.000	1.000
55	55	3	0.2000	0.000	0.000	0.000	1.000
56	56	3	0.2000	0.000	0.000	0.000	1.000
57	57	3	0.2000	0.000	0.000	0.000	1.000
58	58	3	0.2000	0.000	0.000	0.000	1.000
59	59	3	0.2000	0.000	0.000	0.000	1.000
60	60	3	0.2000	0.000	0.000	0.000	1.000
61	61	3	0.2000	0.000	0.000	0.000	1.000
62	62	3	0.2000	0.000	0.000	0.000	1.000
63	63	3	0.2000	0.000	0.000	0.000	1.000
64	64	3	0.2000	0.000	0.000	0.000	1.000
65	65	3	0.2000	0.000	0.000	0.000	1.000
66	66	3	0.2000	0.000	0.000	0.000	1.000
67	67	3	0.2000	0.000	0.000	0.000	1.000
68	68	3	0.2000	0.000	0.000	0.000	1.000
69	69	3	0.2000	0.000	0.000	0.000	1.000
70	70	3	0.2000	0.000	0.000	0.000	1.000
71	71	3	0.2000	0.000	0.000	0.000	1.000
72	72	3	0.2000	0.000	0.000	0.000	1.000
73	73	3	0.2000	0.000	0.000	0.000	1.000
74	74	3	0.2000	0.000	0.000	0.000	1.000
75	75	3	0.2000	0.000	0.000	0.000	1.000
76	76	3	0.1000	0.000	0.000	0.000	1.000

 ELEMENT GROUP NO. 2

0_R   :
   5 76   0   1   0   0   0   0   0   0   0   0   0   0   0   3   0   0   0   0
....
.....2D PLASTIC SOIL .....
....

element group behaviour throughout stage analysis

stage	status
1	active
2	active
3	active
4	active

 material set no.   1

 prop(1) angle   180.000
 prop(2) layer as foreseen 1.00000

 material set no.   2

 prop(1) angle   180.000
 prop(2) layer as foreseen 2.00000

 material set no.   3

 prop(1) angle   180.000
 prop(2) layer as foreseen 3.00000

 element data

el	n	mat	area	.....	.....	.....	flag
1	1	1	0.1000	0.000	0.000	0.000	2.000
2	2	1	0.2000	0.000	0.000	0.000	2.000
3	3	1	0.2000	0.000	0.000	0.000	2.000
4	4	1	0.2000	0.000	0.000	0.000	2.000
5	5	1	0.2000	0.000	0.000	0.000	2.000
6	6	1	0.2000	0.000	0.000	0.000	2.000
7	7	1	0.2000	0.000	0.000	0.000	2.000
8	8	1	0.2000	0.000	0.000	0.000	2.000
9	9	1	0.2000	0.000	0.000	0.000	2.000
10	10	1	0.2000	0.000	0.000	0.000	2.000
11	11	1	0.2000	0.000	0.000	0.000	2.000
12	12	1	0.2000	0.000	0.000	0.000	2.000
13	13	1	0.2000	0.000	0.000	0.000	2.000
14	14	1	0.2000	0.000	0.000	0.000	2.000
15	15	1	0.2000	0.000	0.000	0.000	2.000
16	16	1	0.2000	0.000	0.000	0.000	2.000
17	17	1	0.2000	0.000	0.000	0.000	2.000
18	18	1	0.2000	0.000	0.000	0.000	2.000
19	19	1	0.2000	0.000	0.000	0.000	2.000
20	20	1	0.2000	0.000	0.000	0.000	2.000
21	21	2	0.2000	0.000	0.000	0.000	2.000
22	22	2	0.2000	0.000	0.000	0.000	2.000
23	23	2	0.2000	0.000	0.000	0.000	2.000
24	24	2	0.2000	0.000	0.000	0.000	2.000
25	25	2	0.2000	0.000	0.000	0.000	2.000
26	26	2	0.2000	0.000	0.000	0.000	2.000
27	27	2	0.2000	0.000	0.000	0.000	2.000
28	28	2	0.2000	0.000	0.000	0.000	2.000
29	29	2	0.2000	0.000	0.000	0.000	2.000
30	30	2	0.2000	0.000	0.000	0.000	2.000
31	31	2	0.2000	0.000	0.000	0.000	2.000
32	32	2	0.2000	0.000	0.000	0.000	2.000
33	33	2	0.2000	0.000	0.000	0.000	2.000
34	34	2	0.2000	0.000	0.000	0.000	2.000
35	35	2	0.2000	0.000	0.000	0.000	2.000
36	36	2	0.2000	0.000	0.000	0.000	2.000
37	37	2	0.2000	0.000	0.000	0.000	2.000
38	38	2	0.2000	0.000	0.000	0.000	2.000
39	39	2	0.2000	0.000	0.000	0.000	2.000
40	40	2	0.2000	0.000	0.000	0.000	2.000
41	41	3	0.2000	0.000	0.000	0.000	2.000
42	42	3	0.2000	0.000	0.000	0.000	2.000
43	43	3	0.2000	0.000	0.000	0.000	2.000

44	44	3	0.2000	0.000	0.000	0.000	2.000
45	45	3	0.2000	0.000	0.000	0.000	2.000
46	46	3	0.2000	0.000	0.000	0.000	2.000
47	47	3	0.2000	0.000	0.000	0.000	2.000
48	48	3	0.2000	0.000	0.000	0.000	2.000
49	49	3	0.2000	0.000	0.000	0.000	2.000
50	50	3	0.2000	0.000	0.000	0.000	2.000
51	51	3	0.2000	0.000	0.000	0.000	2.000
52	52	3	0.2000	0.000	0.000	0.000	2.000
53	53	3	0.2000	0.000	0.000	0.000	2.000
54	54	3	0.2000	0.000	0.000	0.000	2.000
55	55	3	0.2000	0.000	0.000	0.000	2.000
56	56	3	0.2000	0.000	0.000	0.000	2.000
57	57	3	0.2000	0.000	0.000	0.000	2.000
58	58	3	0.2000	0.000	0.000	0.000	2.000
59	59	3	0.2000	0.000	0.000	0.000	2.000
60	60	3	0.2000	0.000	0.000	0.000	2.000
61	61	3	0.2000	0.000	0.000	0.000	2.000
62	62	3	0.2000	0.000	0.000	0.000	2.000
63	63	3	0.2000	0.000	0.000	0.000	2.000
64	64	3	0.2000	0.000	0.000	0.000	2.000
65	65	3	0.2000	0.000	0.000	0.000	2.000
66	66	3	0.2000	0.000	0.000	0.000	2.000
67	67	3	0.2000	0.000	0.000	0.000	2.000
68	68	3	0.2000	0.000	0.000	0.000	2.000
69	69	3	0.2000	0.000	0.000	0.000	2.000
70	70	3	0.2000	0.000	0.000	0.000	2.000
71	71	3	0.2000	0.000	0.000	0.000	2.000
72	72	3	0.2000	0.000	0.000	0.000	2.000
73	73	3	0.2000	0.000	0.000	0.000	2.000
74	74	3	0.2000	0.000	0.000	0.000	2.000
75	75	3	0.2000	0.000	0.000	0.000	2.000
76	76	3	0.1000	0.000	0.000	0.000	2.000

ELEMENT GROUP NO. 3

Pali1500_253215 :

2 75 0 1 0 0 0 0 0 0 0 0 0 0 0 1 0 0 1 0

.....

.....2D WALL ELEMENT.....

.....

element group behaviour throughout stage analysis

stage	status
1	inactive
2	active
3	active
4	active

material set no. 1

prop(1) young modulus 0.333500E+08
prop(2) modification time 0.00000
prop(3) new young modulus 0.00000
prop(4) poisson ratio 0.00000
prop(5) future 0.00000

no. of step variable items: 1

step	inertia multipier
1	1.000
2	1.000
3	1.000
4	1.000

element data

el	na	nb	mat	erc1	erc2	thick	area	inertia	wgt(-z)	by-i	by-j
1	1	2	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
2	2	3	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
3	3	4	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
4	4	5	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
5	5	6	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
6	6	7	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
7	7	8	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
8	8	9	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
9	9	10	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
10	10	11	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
11	11	12	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
12	12	13	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
13	13	14	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
14	14	15	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
15	15	16	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
16	16	17	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
17	17	18	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
18	18	19	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
19	19	20	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
20	20	21	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
21	21	22	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
22	22	23	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
23	23	24	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
24	24	25	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
25	25	26	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
26	26	27	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
27	27	28	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
28	28	29	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
29	29	30	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
30	30	31	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
31	31	32	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
32	32	33	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
33	33	34	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
34	34	35	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
35	35	36	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
36	36	37	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
37	37	38	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
38	38	39	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
39	39	40	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
40	40	41	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
41	41	42	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
42	42	43	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
43	43	44	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
44	44	45	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
45	45	46	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000

46	46	47	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
47	47	48	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
48	48	49	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
49	49	50	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
50	50	51	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
51	51	52	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
52	52	53	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
53	53	54	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
54	54	55	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
55	55	56	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
56	56	57	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
57	57	58	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
58	58	59	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
59	59	60	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
60	60	61	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
61	61	62	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
62	62	63	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
63	63	64	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
64	64	65	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
65	65	66	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
66	66	67	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
67	67	68	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
68	68	69	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
69	69	70	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
70	70	71	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
71	71	72	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
72	72	73	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
73	73	74	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
74	74	75	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
75	75	76	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000

```
+-------------------------------------------------------------------------------------------------------------------------+
|                   PARATIEPLUS(TM)   NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*              |
|                                                                                                                         |
|                                                ParatiePlus                                                              |
|                                  Exe Time :28 January 2022   16:22:50                                                   |
+-------------------------------------------------------------------------------------------------------------------------+


NO. OF NODAL LOADS  (NLOAD) ...................    0
NO. OF LOAD CURVES  (NLCUR) ...................    8
MAXIMUM POINTS/LCURVE (NPTM)...................    5
```

L O A D D A T A

LOAD FUNCTION NUMBER = 1
NUMBER OF TIME POINTS = 5

TIME VALUE	FUNCTION
0.00000	0.0000E+00
0.80000	0.0000E+00
1.00000	0.1000E+01
1.20000	0.0000E+00
5.00000	0.0000E+00

LOAD FUNCTION NUMBER = 2
NUMBER OF TIME POINTS = 5

TIME VALUE	FUNCTION
0.00000	0.0000E+00
1.80000	0.0000E+00
2.00000	0.1000E+01
2.20000	0.0000E+00
5.00000	0.0000E+00

LOAD FUNCTION NUMBER = 3
NUMBER OF TIME POINTS = 5

TIME VALUE	FUNCTION
0.00000	0.0000E+00
2.80000	0.0000E+00
3.00000	0.1000E+01
3.20000	0.0000E+00
5.00000	0.0000E+00

LOAD FUNCTION NUMBER = 4
NUMBER OF TIME POINTS = 5

TIME VALUE	FUNCTION
0.00000	0.0000E+00
3.80000	0.0000E+00
4.00000	0.1000E+01
4.20000	0.0000E+00
5.00000	0.0000E+00

LOAD FUNCTION NUMBER = 5
NUMBER OF TIME POINTS = 4

TIME VALUE	FUNCTION
0.00000	0.0000E+00
0.80000	0.0000E+00
1.00000	0.1000E+01
5.00000	0.1000E+01

LOAD FUNCTION NUMBER = 6
NUMBER OF TIME POINTS = 4

TIME VALUE	FUNCTION
0.00000	0.0000E+00
1.80000	0.0000E+00
2.00000	0.1000E+01
5.00000	0.1000E+01

LOAD FUNCTION NUMBER = 7
NUMBER OF TIME POINTS = 4

TIME VALUE	FUNCTION
0.00000	0.0000E+00
2.80000	0.0000E+00
3.00000	0.1000E+01
5.00000	0.1000E+01

LOAD FUNCTION NUMBER = 8
NUMBER OF TIME POINTS = 4

TIME VALUE	FUNCTION
0.00000	0.0000E+00
3.80000	0.0000E+00
4.00000	0.1000E+01
5.00000	0.1000E+01

PROCESSING DISTRIBUTED LOADS CARD NO. 1
AT Y-COORD 10.00 Z-COORD 333.0 PRESSURE 12.65
Z-COORD 339.0 PRESSURE 12.65
L.CURVE 4

NO. OF GENERATED NODAL FORCES 30

NODE	Z-LVL	FORCE /	NODE	Z-LVL	FORCE /	NODE	Z-LVL	FORCE /
30	0.3332E+03	0.2549869E+01 /	29	0.3334E+03	0.2574166E+01 /	28	0.3336E+03	0.2573533E+01 /
27	0.3338E+03	0.2573533E+01 /	26	0.3340E+03	0.2573533E+01 /	25	0.3342E+03	0.2573533E+01 /
24	0.3344E+03	0.2573533E+01 /	23	0.3346E+03	0.2573533E+01 /	22	0.3348E+03	0.2574166E+01 /
21	0.3350E+03	0.2574166E+01 /	20	0.3352E+03	0.2573533E+01 /	19	0.3354E+03	0.2573533E+01 /
18	0.3356E+03	0.2573533E+01 /	17	0.3358E+03	0.2573533E+01 /	16	0.3360E+03	0.2573533E+01 /
15	0.3362E+03	0.2573533E+01 /	14	0.3364E+03	0.2574166E+01 /	13	0.3366E+03	0.2574166E+01 /
12	0.3368E+03	0.2573533E+01 /	11	0.3370E+03	0.2573533E+01 /	10	0.3372E+03	0.2573533E+01 /
9	0.3374E+03	0.2573533E+01 /	8	0.3376E+03	0.2573533E+01 /	7	0.3378E+03	0.2573533E+01 /
6	0.3380E+03	0.2574166E+01 /	5	0.3382E+03	0.2574166E+01 /	4	0.3384E+03	0.2573533E+01 /
3	0.3386E+03	0.2573533E+01 /	2	0.3388E+03	0.2573533E+01 /	1	0.3390E+03	0.1286767E+01 /

OVERALL APPLIED Y FORCE FOR CURRENT DISTRIBUTED LOAD 75.900

PROCESSING DISTRIBUTED LOADS CARD NO. 2
AT Y-COORD 10.00 Z-COORD 333.0 PRESSURE 2.920
Z-COORD 339.0 PRESSURE 2.920
L.CURVE 4

NO. OF GENERATED NODAL FORCES 30

NODE	Z-LVL	FORCE /	NODE	Z-LVL	FORCE /	NODE	Z-LVL	FORCE /
30	0.3332E+03	0.5885864E+00 /	29	0.3334E+03	0.5941948E+00 /	28	0.3336E+03	0.5940488E+00 /
27	0.3338E+03	0.5940488E+00 /	26	0.3340E+03	0.5940488E+00 /	25	0.3342E+03	0.5940488E+00 /
24	0.3344E+03	0.5940488E+00 /	23	0.3346E+03	0.5940488E+00 /	22	0.3348E+03	0.5941948E+00 /
21	0.3350E+03	0.5941948E+00 /	20	0.3352E+03	0.5940488E+00 /	19	0.3354E+03	0.5940488E+00 /
18	0.3356E+03	0.5940488E+00 /	17	0.3358E+03	0.5940488E+00 /	16	0.3360E+03	0.5940488E+00 /
15	0.3362E+03	0.5940488E+00 /	14	0.3364E+03	0.5941948E+00 /	13	0.3366E+03	0.5941948E+00 /
12	0.3368E+03	0.5940488E+00 /	11	0.3370E+03	0.5940488E+00 /	10	0.3372E+03	0.5940488E+00 /
9	0.3374E+03	0.5940488E+00 /	8	0.3376E+03	0.5940488E+00 /	7	0.3378E+03	0.5940488E+00 /
6	0.3380E+03	0.5941948E+00 /	5	0.3382E+03	0.5941948E+00 /	4	0.3384E+03	0.5940488E+00 /
3	0.3386E+03	0.5940488E+00 /	2	0.3388E+03	0.5940488E+00 /	1	0.3390E+03	0.2970244E+00 /

OVERALL APPLIED Y FORCE FOR CURRENT DISTRIBUTED LOAD 17.520

NO. OF DISTRIBUTED LOAD CARDS 2

```
+------------------------------------------------------------------------------------------------------------------------+
|                   PARATIEPLUS(TM)   NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*              |
|                                                                                                                        |
|                                                       ParatiePlus                                                     |
|                                     Exe Time :28 January 2022   16:22:50                                              |
+------------------------------------------------------------------------------------------------------------------------+
L O A D     B A L A N C E

STEP     1 TOTAL APPLIED LOAD IN DIR.  2  Y-DISPL.F       0.0000000
STEP     1 TOTAL APPLIED LOAD IN DIR.  4   X-ROT. F       0.0000000

STEP     2 TOTAL APPLIED LOAD IN DIR.  2  Y-DISPL.F       0.0000000
STEP     2 TOTAL APPLIED LOAD IN DIR.  4   X-ROT. F       0.0000000

STEP     3 TOTAL APPLIED LOAD IN DIR.  2  Y-DISPL.F       0.0000000
STEP     3 TOTAL APPLIED LOAD IN DIR.  4   X-ROT. F       0.0000000

STEP     4 TOTAL APPLIED LOAD IN DIR.  2  Y-DISPL.F       93.420000
STEP     4 TOTAL APPLIED LOAD IN DIR.  4   X-ROT. F       0.0000000


                      LOAD INPUT SECTION COMPLETED
```

```
+-------------------------------------------------------------------------------------------------------------------------+
|                  PARATIEPLUS(TM)   NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*              |
|                                                                                                                         |
|                                              ParatiePlus                                                                |
|                                Exe Time :28 January 2022   16:22:50                                                     |
+-------------------------------------------------------------------------------------------------------------------------+


NO. OF LAYERS ..............................    3
NO. OF DATA PER LAYER.......................  160
```

LAYER DESCRIPTORS FOR STEP NO. 1

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 1 FOR STEP NO. 1

ITEM NO. 1<NAME >= 12.000 (BOTH WALLS)
ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
ITEM NO. 3<LEVEL >= 343.00 (BOTH WALLS)
ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)
ITEM NO. 5<GAMMAD >= 19.000 (BOTH WALLS)
ITEM NO. 6<GAMMAB >= 9.0000 (BOTH WALLS)
ITEM NO. 7<GAMMAW >= 10.000 (BOTH WALLS)
ITEM NO. 8<U-COHE >= 10.000 (BOTH WALLS)
ITEM NO. 9<U-FRICT >= 31.000 (BOTH WALLS)
ITEM NO. 10<U-KA >= 0.30300 WALL NO. 1
ITEM NO. 11<U-KP >= 3.8030 WALL NO. 1
ITEM NO. 12<K0-NC >= 0.50000 (BOTH WALLS)
ITEM NO. 13<NEXP >= 0.50000 (BOTH WALLS)
ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)
ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)
ITEM NO. 17<EVC >= 40000. (BOTH WALLS)
ITEM NO. 18<EUR >= 0.12000E+06 (BOTH WALLS)
ITEM NO. 27<U-PERM >= 0.10000E-04 (BOTH WALLS)
ITEM NO. 58<U-TZKZ >= 10000. (BOTH WALLS)
ITEM NO. 60<U-TZDELT>= 25.000 (BOTH WALLS)
ITEM NO. 61<U-TZALPH>= 0.50000 (BOTH WALLS)
ITEM NO. 82<D-NATURE>= 1.0000 (BOTH WALLS)
ITEM NO. 83<D-LEVEL >= 343.00 (BOTH WALLS)
ITEM NO. 88<D-COHE >= 10.000 (BOTH WALLS)
ITEM NO. 89<D-FRICT >= 31.000 (BOTH WALLS)
ITEM NO. 90<D-KA >= 0.34000 WALL NO. 1
ITEM NO. 91<D-KP >= 4.5550 WALL NO. 1
ITEM NO. 107<D-PERM >= 0.10000E-04 (BOTH WALLS)
ITEM NO. 138<D-TZKZ >= 10000. (BOTH WALLS)
ITEM NO. 140<D-TZDELT>= 25.000 (BOTH WALLS)
ITEM NO. 141<D-TZALPH>= 0.50000 (BOTH WALLS)

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 2 FOR STEP NO. 1

ITEM NO. 1<NAME >= 13.000 (BOTH WALLS)
ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
ITEM NO. 3<LEVEL >= 335.00 (BOTH WALLS)
ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)
ITEM NO. 5<GAMMAD >= 20.000 (BOTH WALLS)
ITEM NO. 6<GAMMAB >= 10.000 (BOTH WALLS)
ITEM NO. 7<GAMMAW >= 10.000 (BOTH WALLS)
ITEM NO. 8<U-COHE >= 10.000 (BOTH WALLS)
ITEM NO. 9<U-FRICT >= 26.000 (BOTH WALLS)
ITEM NO. 10<U-KA >= 0.36800 WALL NO. 1
ITEM NO. 11<U-KP >= 2.8670 WALL NO. 1
ITEM NO. 12<K0-NC >= 0.56200 (BOTH WALLS)
ITEM NO. 13<NEXP >= 0.50000 (BOTH WALLS)
ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)
ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)
ITEM NO. 17<EVC >= 0.20000E+06 (BOTH WALLS)
ITEM NO. 18<EUR >= 0.60000E+06 (BOTH WALLS)
ITEM NO. 27<U-PERM >= 0.10000E-04 (BOTH WALLS)
ITEM NO. 58<U-TZKZ >= 10000. (BOTH WALLS)
ITEM NO. 60<U-TZDELT>= 25.000 (BOTH WALLS)
ITEM NO. 61<U-TZALPH>= 0.50000 (BOTH WALLS)
ITEM NO. 82<D-NATURE>= 1.0000 (BOTH WALLS)
ITEM NO. 83<D-LEVEL >= 0.0000 (BOTH WALLS)
ITEM NO. 88<D-COHE >= 10.000 (BOTH WALLS)
ITEM NO. 89<D-FRICT >= 26.000 (BOTH WALLS)
ITEM NO. 90<D-KA >= 0.41800 WALL NO. 1
ITEM NO. 91<D-KP >= 3.4040 WALL NO. 1
ITEM NO. 107<D-PERM >= 0.10000E-04 (BOTH WALLS)
ITEM NO. 138<D-TZKZ >= 10000. (BOTH WALLS)
ITEM NO. 140<D-TZDELT>= 25.000 (BOTH WALLS)
ITEM NO. 141<D-TZALPH>= 0.50000 (BOTH WALLS)

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 3 FOR STEP NO. 1

ITEM NO. 1<NAME >= 14.000 (BOTH WALLS)
ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
ITEM NO. 3<LEVEL >= 331.00 (BOTH WALLS)
ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)
ITEM NO. 5<GAMMAD >= 22.500 (BOTH WALLS)
ITEM NO. 6<GAMMAB >= 12.500 (BOTH WALLS)
ITEM NO. 7<GAMMAW >= 10.000 (BOTH WALLS)
ITEM NO. 8<U-COHE >= 50.000 (BOTH WALLS)
ITEM NO. 9<U-FRICT >= 27.000 (BOTH WALLS)

ITEM NO. 10<U-KA   >= 0.35500   WALL NO.   1
ITEM NO. 11<U-KP   >= 2.9980   WALL NO.   1
ITEM NO. 12<K0-NC   >= 0.50000   (BOTH WALLS)
ITEM NO. 13<NEXP   >= 0.50000   (BOTH WALLS)
ITEM NO. 14<OCR   >= 1.0000   (BOTH WALLS)
ITEM NO. 16<MODEL   >= 1.0000   (BOTH WALLS)
ITEM NO. 17<EVC   >= 0.10000E+06 (BOTH WALLS)
ITEM NO. 18<EUR   >= 0.30000E+06 (BOTH WALLS)
ITEM NO. 27<U-PERM >= 0.10000E-03 (BOTH WALLS)
ITEM NO. 58<U-TZKZ >= 20000.   (BOTH WALLS)
ITEM NO. 60<U-TZDELT>= 30.000   (BOTH WALLS)
ITEM NO. 61<U-TZALPH>= 0.50000   (BOTH WALLS)
ITEM NO. 82<D-NATURE>= 1.0000   (BOTH WALLS)
ITEM NO. 83<D-LEVEL >= 0.0000   (BOTH WALLS)
ITEM NO. 88<D-COHE >= 50.000   (BOTH WALLS)
ITEM NO. 89<D-FRICT >= 27.000   (BOTH WALLS)
ITEM NO. 90<D-KA   >= 0.40100   WALL NO.   1
ITEM NO. 91<D-KP   >= 3.6010   WALL NO.   1
ITEM NO. 107<D-PERM >= 0.10000E-03 (BOTH WALLS)
ITEM NO. 138<D-TZKZ >= 20000.   (BOTH WALLS)
ITEM NO. 140<D-TZDELT>= 30.000   (BOTH WALLS)
ITEM NO. 141<D-TZALPH>= 0.50000   (BOTH WALLS)

LAYER DESCRIPTORS FOR STEP NO.   2

 NON ZERO LAYER DESCRIPTORS FOR LAYER NO.   1 FOR STEP NO.   2

ITEM NO.   1<NAME   >= 12.000   (BOTH WALLS)
ITEM NO.   2<NATURE >= 1.0000   (BOTH WALLS)
ITEM NO.   3<LEVEL   >= 343.00   (BOTH WALLS)
ITEM NO.   4<WALL   >= 1.0000   (BOTH WALLS)
ITEM NO.   5<GAMMAD >= 19.000   (BOTH WALLS)
ITEM NO.   6<GAMMAB >= 9.0000   (BOTH WALLS)
ITEM NO.   7<GAMMAW >= 10.000   (BOTH WALLS)
ITEM NO.   8<U-COHE >= 10.000   (BOTH WALLS)
ITEM NO.   9<U-FRICT >= 31.000   (BOTH WALLS)
ITEM NO. 10<U-KA   >= 0.32200   WALL NO.   1
ITEM NO. 11<U-KP   >= 4.5550   WALL NO.   1
ITEM NO. 12<K0-NC   >= 0.50000   (BOTH WALLS)
ITEM NO. 13<NEXP   >= 0.50000   (BOTH WALLS)
ITEM NO. 14<OCR   >= 1.0000   (BOTH WALLS)
ITEM NO. 16<MODEL   >= 1.0000   (BOTH WALLS)
ITEM NO. 17<EVC   >= 40000.   (BOTH WALLS)
ITEM NO. 18<EUR   >= 0.12000E+06 (BOTH WALLS)
ITEM NO. 27<U-PERM >= 0.10000E-04 (BOTH WALLS)
ITEM NO. 58<U-TZKZ >= 10000.   (BOTH WALLS)
ITEM NO. 60<U-TZDELT>= 25.000   (BOTH WALLS)
ITEM NO. 61<U-TZALPH>= 0.50000   (BOTH WALLS)
ITEM NO. 82<D-NATURE>= 1.0000   (BOTH WALLS)
ITEM NO. 83<D-LEVEL >= 343.00   (BOTH WALLS)
ITEM NO. 88<D-COHE >= 10.000   (BOTH WALLS)
ITEM NO. 89<D-FRICT >= 31.000   (BOTH WALLS)
ITEM NO. 90<D-KA   >= 0.32000   WALL NO.   1
ITEM NO. 91<D-KP   >= 4.5550   WALL NO.   1
ITEM NO. 107<D-PERM >= 0.10000E-04 (BOTH WALLS)
ITEM NO. 138<D-TZKZ >= 10000.   (BOTH WALLS)
ITEM NO. 140<D-TZDELT>= 25.000   (BOTH WALLS)
ITEM NO. 141<D-TZALPH>= 0.50000   (BOTH WALLS)

 NON ZERO LAYER DESCRIPTORS FOR LAYER NO.   2 FOR STEP NO.   2

ITEM NO.   1<NAME   >= 13.000   (BOTH WALLS)
ITEM NO.   2<NATURE >= 1.0000   (BOTH WALLS)
ITEM NO.   3<LEVEL   >= 335.00   (BOTH WALLS)
ITEM NO.   4<WALL   >= 1.0000   (BOTH WALLS)
ITEM NO.   5<GAMMAD >= 20.000   (BOTH WALLS)
ITEM NO.   6<GAMMAB >= 10.000   (BOTH WALLS)
ITEM NO.   7<GAMMAW >= 10.000   (BOTH WALLS)
ITEM NO.   8<U-COHE >= 10.000   (BOTH WALLS)
ITEM NO.   9<U-FRICT >= 26.000   (BOTH WALLS)
ITEM NO. 10<U-KA   >= 0.49100   WALL NO.   1
ITEM NO. 11<U-KP   >= 3.4040   WALL NO.   1
ITEM NO. 12<K0-NC   >= 0.56200   (BOTH WALLS)
ITEM NO. 13<NEXP   >= 0.50000   (BOTH WALLS)
ITEM NO. 14<OCR   >= 1.0000   (BOTH WALLS)
ITEM NO. 16<MODEL   >= 1.0000   (BOTH WALLS)
ITEM NO. 17<EVC   >= 0.20000E+06 (BOTH WALLS)
ITEM NO. 18<EUR   >= 0.60000E+06 (BOTH WALLS)
ITEM NO. 27<U-PERM >= 0.10000E-04 (BOTH WALLS)
ITEM NO. 58<U-TZKZ >= 10000.   (BOTH WALLS)
ITEM NO. 60<U-TZDELT>= 25.000   (BOTH WALLS)
ITEM NO. 61<U-TZALPH>= 0.50000   (BOTH WALLS)
ITEM NO. 82<D-NATURE>= 1.0000   (BOTH WALLS)
ITEM NO. 83<D-LEVEL >= 0.0000   (BOTH WALLS)
ITEM NO. 88<D-COHE >= 10.000   (BOTH WALLS)
ITEM NO. 89<D-FRICT >= 26.000   (BOTH WALLS)
ITEM NO. 90<D-KA   >= 0.39000   WALL NO.   1
ITEM NO. 91<D-KP   >= 3.4040   WALL NO.   1
ITEM NO. 107<D-PERM >= 0.10000E-04 (BOTH WALLS)
ITEM NO. 138<D-TZKZ >= 10000.   (BOTH WALLS)
ITEM NO. 140<D-TZDELT>= 25.000   (BOTH WALLS)

ITEM NO. 141<D-TZALPH>= 0.50000 (BOTH WALLS)

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 3 FOR STEP NO. 2

ITEM NO. 1<NAME >= 14.000 (BOTH WALLS)
ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
ITEM NO. 3<LEVEL >= 331.00 (BOTH WALLS)
ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)
ITEM NO. 5<GAMMAD >= 22.500 (BOTH WALLS)
ITEM NO. 6<GAMMAB >= 12.500 (BOTH WALLS)
ITEM NO. 7<GAMMAW >= 10.000 (BOTH WALLS)
ITEM NO. 8<U-COHE >= 50.000 (BOTH WALLS)
ITEM NO. 9<U-FRICT >= 27.000 (BOTH WALLS)
ITEM NO. 10<U-KA >= 0.48100 WALL NO. 1
ITEM NO. 11<U-KP >= 3.6010 WALL NO. 1
ITEM NO. 12<K0-NC >= 0.50000 (BOTH WALLS)
ITEM NO. 13<NEXP >= 0.50000 (BOTH WALLS)
ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)
ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)
ITEM NO. 17<EVC >= 0.10000E+06 (BOTH WALLS)
ITEM NO. 18<EUR >= 0.30000E+06 (BOTH WALLS)
ITEM NO. 27<U-PERM >= 0.10000E-03 (BOTH WALLS)
ITEM NO. 58<U-TZKZ >= 20000. (BOTH WALLS)
ITEM NO. 60<U-TZDELT>= 30.000 (BOTH WALLS)
ITEM NO. 61<U-TZALPH>= 0.50000 (BOTH WALLS)
ITEM NO. 82<D-NATURE>= 1.0000 (BOTH WALLS)
ITEM NO. 83<D-LEVEL >= 0.0000 (BOTH WALLS)
ITEM NO. 88<D-COHE >= 50.000 (BOTH WALLS)
ITEM NO. 89<D-FRICT >= 27.000 (BOTH WALLS)
ITEM NO. 90<D-KA >= 0.37600 WALL NO. 1
ITEM NO. 91<D-KP >= 3.6010 WALL NO. 1
ITEM NO. 107<D-PERM >= 0.10000E-03 (BOTH WALLS)
ITEM NO. 138<D-TZKZ >= 20000. (BOTH WALLS)
ITEM NO. 140<D-TZDELT>= 30.000 (BOTH WALLS)
ITEM NO. 141<D-TZALPH>= 0.50000 (BOTH WALLS)

LAYER DESCRIPTORS FOR STEP NO. 3

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 1 FOR STEP NO. 3

ITEM NO. 1<NAME >= 12.000 (BOTH WALLS)
ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
ITEM NO. 3<LEVEL >= 343.00 (BOTH WALLS)
ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)
ITEM NO. 5<GAMMAD >= 19.000 (BOTH WALLS)
ITEM NO. 6<GAMMAB >= 9.0000 (BOTH WALLS)
ITEM NO. 7<GAMMAW >= 10.000 (BOTH WALLS)
ITEM NO. 8<U-COHE >= 10.000 (BOTH WALLS)
ITEM NO. 9<U-FRICT >= 31.000 (BOTH WALLS)
ITEM NO. 10<U-KA >= 0.32200 WALL NO. 1
ITEM NO. 11<U-KP >= 4.5550 WALL NO. 1
ITEM NO. 12<K0-NC >= 0.50000 (BOTH WALLS)
ITEM NO. 13<NEXP >= 0.50000 (BOTH WALLS)
ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)
ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)
ITEM NO. 17<EVC >= 40000. (BOTH WALLS)
ITEM NO. 18<EUR >= 0.12000E+06 (BOTH WALLS)
ITEM NO. 27<U-PERM >= 0.10000E-04 (BOTH WALLS)
ITEM NO. 58<U-TZKZ >= 10000. (BOTH WALLS)
ITEM NO. 60<U-TZDELT>= 25.000 (BOTH WALLS)
ITEM NO. 61<U-TZALPH>= 0.50000 (BOTH WALLS)
ITEM NO. 82<D-NATURE>= 1.0000 (BOTH WALLS)
ITEM NO. 83<D-LEVEL >= 343.00 (BOTH WALLS)
ITEM NO. 88<D-COHE >= 10.000 (BOTH WALLS)
ITEM NO. 89<D-FRICT >= 31.000 (BOTH WALLS)
ITEM NO. 90<D-KA >= 0.32000 WALL NO. 1
ITEM NO. 91<D-KP >= 4.5550 WALL NO. 1
ITEM NO. 107<D-PERM >= 0.10000E-04 (BOTH WALLS)
ITEM NO. 138<D-TZKZ >= 10000. (BOTH WALLS)
ITEM NO. 140<D-TZDELT>= 25.000 (BOTH WALLS)
ITEM NO. 141<D-TZALPH>= 0.50000 (BOTH WALLS)

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 2 FOR STEP NO. 3

ITEM NO. 1<NAME >= 13.000 (BOTH WALLS)
ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
ITEM NO. 3<LEVEL >= 335.00 (BOTH WALLS)
ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)
ITEM NO. 5<GAMMAD >= 20.000 (BOTH WALLS)
ITEM NO. 6<GAMMAB >= 10.000 (BOTH WALLS)
ITEM NO. 7<GAMMAW >= 10.000 (BOTH WALLS)
ITEM NO. 8<U-COHE >= 10.000 (BOTH WALLS)
ITEM NO. 9<U-FRICT >= 26.000 (BOTH WALLS)
ITEM NO. 10<U-KA >= 0.49100 WALL NO. 1
ITEM NO. 11<U-KP >= 3.4040 WALL NO. 1
ITEM NO. 12<K0-NC >= 0.56200 (BOTH WALLS)
ITEM NO. 13<NEXP >= 0.50000 (BOTH WALLS)
ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)
ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)
ITEM NO. 17<EVC >= 0.20000E+06 (BOTH WALLS)
ITEM NO. 18<EUR >= 0.60000E+06 (BOTH WALLS)

ITEM NO. 27<U-PERM >= 0.10000E-04 (BOTH WALLS)
ITEM NO. 58<U-TZKZ >= 10000.   (BOTH WALLS)
ITEM NO. 60<U-TZDELT>= 25.000   (BOTH WALLS)
ITEM NO. 61<U-TZALPH>= 0.50000   (BOTH WALLS)
ITEM NO. 82<D-NATURE>= 1.0000   (BOTH WALLS)
ITEM NO. 83<D-LEVEL >= 0.0000   (BOTH WALLS)
ITEM NO. 88<D-COHE >= 10.000   (BOTH WALLS)
ITEM NO. 89<D-FRICT >= 26.000   (BOTH WALLS)
ITEM NO. 90<D-KA   >= 0.39000   WALL NO.   1
ITEM NO. 91<D-KP   >= 3.4040   WALL NO.   1
ITEM NO. 107<D-PERM >= 0.10000E-04 (BOTH WALLS)
ITEM NO. 138<D-TZKZ >= 10000.   (BOTH WALLS)
ITEM NO. 140<D-TZDELT>= 25.000   (BOTH WALLS)
ITEM NO. 141<D-TZALPH>= 0.50000   (BOTH WALLS)

 NON ZERO LAYER DESCRIPTORS FOR LAYER NO.   3 FOR STEP NO.   3

ITEM NO.   1<NAME   >= 14.000   (BOTH WALLS)
ITEM NO.   2<NATURE >= 1.0000   (BOTH WALLS)
ITEM NO.   3<LEVEL   >= 331.00   (BOTH WALLS)
ITEM NO.   4<WALL   >= 1.0000   (BOTH WALLS)
ITEM NO.   5<GAMMAD >= 22.500   (BOTH WALLS)
ITEM NO.   6<GAMMAB >= 12.500   (BOTH WALLS)
ITEM NO.   7<GAMMAW >= 10.000   (BOTH WALLS)
ITEM NO.   8<U-COHE >= 50.000   (BOTH WALLS)
ITEM NO.   9<U-FRICT >= 27.000   (BOTH WALLS)
ITEM NO. 10<U-KA   >= 0.48100   WALL NO.   1
ITEM NO. 11<U-KP   >= 3.6010   WALL NO.   1
ITEM NO. 12<K0-NC   >= 0.50000   (BOTH WALLS)
ITEM NO. 13<NEXP   >= 0.50000   (BOTH WALLS)
ITEM NO. 14<OCR   >= 1.0000   (BOTH WALLS)
ITEM NO. 16<MODEL   >= 1.0000   (BOTH WALLS)
ITEM NO. 17<EVC   >= 0.10000E+06 (BOTH WALLS)
ITEM NO. 18<EUR   >= 0.30000E+06 (BOTH WALLS)
ITEM NO. 27<U-PERM >= 0.10000E-03 (BOTH WALLS)
ITEM NO. 58<U-TZKZ >= 20000.   (BOTH WALLS)
ITEM NO. 60<U-TZDELT>= 30.000   (BOTH WALLS)
ITEM NO. 61<U-TZALPH>= 0.50000   (BOTH WALLS)
ITEM NO. 82<D-NATURE>= 1.0000   (BOTH WALLS)
ITEM NO. 83<D-LEVEL >= 0.0000   (BOTH WALLS)
ITEM NO. 88<D-COHE >= 50.000   (BOTH WALLS)
ITEM NO. 89<D-FRICT >= 27.000   (BOTH WALLS)
ITEM NO. 90<D-KA   >= 0.37600   WALL NO.   1
ITEM NO. 91<D-KP   >= 3.6010   WALL NO.   1
ITEM NO. 107<D-PERM >= 0.10000E-03 (BOTH WALLS)
ITEM NO. 138<D-TZKZ >= 20000.   (BOTH WALLS)
ITEM NO. 140<D-TZDELT>= 30.000   (BOTH WALLS)
ITEM NO. 141<D-TZALPH>= 0.50000   (BOTH WALLS)

LAYER DESCRIPTORS FOR STEP NO.   4

 NON ZERO LAYER DESCRIPTORS FOR LAYER NO.   1 FOR STEP NO.   4

ITEM NO.   1<NAME   >= 12.000   (BOTH WALLS)
ITEM NO.   2<NATURE >= 1.0000   (BOTH WALLS)
ITEM NO.   3<LEVEL   >= 343.00   (BOTH WALLS)
ITEM NO.   4<WALL   >= 1.0000   (BOTH WALLS)
ITEM NO.   5<GAMMAD >= 19.000   (BOTH WALLS)
ITEM NO.   6<GAMMAB >= 9.0000   (BOTH WALLS)
ITEM NO.   7<GAMMAW >= 10.000   (BOTH WALLS)
ITEM NO.   8<U-COHE >= 10.000   (BOTH WALLS)
ITEM NO.   9<U-FRICT >= 31.000   (BOTH WALLS)
ITEM NO. 10<U-KA   >= 0.32200   WALL NO.   1
ITEM NO. 11<U-KP   >= 4.5550   WALL NO.   1
ITEM NO. 12<K0-NC   >= 0.50000   (BOTH WALLS)
ITEM NO. 13<NEXP   >= 0.50000   (BOTH WALLS)
ITEM NO. 14<OCR   >= 1.0000   (BOTH WALLS)
ITEM NO. 16<MODEL   >= 1.0000   (BOTH WALLS)
ITEM NO. 17<EVC   >= 40000.   (BOTH WALLS)
ITEM NO. 18<EUR   >= 0.12000E+06 (BOTH WALLS)
ITEM NO. 27<U-PERM >= 0.10000E-04 (BOTH WALLS)
ITEM NO. 47<U-KAED >= 0.44088   WALL NO.   1
ITEM NO. 48<U-KAEW >= 0.58140   WALL NO.   1
ITEM NO. 49<U-KPED >= 4.4410   WALL NO.   1
ITEM NO. 50<U-KPEW >= 3.7963   WALL NO.   1
ITEM NO. 58<U-TZKZ >= 10000.   (BOTH WALLS)
ITEM NO. 60<U-TZDELT>= 25.000   (BOTH WALLS)
ITEM NO. 61<U-TZALPH>= 0.50000   (BOTH WALLS)
ITEM NO. 82<D-NATURE>= 1.0000   (BOTH WALLS)
ITEM NO. 83<D-LEVEL >= 343.00   (BOTH WALLS)
ITEM NO. 88<D-COHE >= 10.000   (BOTH WALLS)
ITEM NO. 89<D-FRICT >= 31.000   (BOTH WALLS)
ITEM NO. 90<D-KA   >= 0.32000   WALL NO.   1
ITEM NO. 91<D-KP   >= 4.5550   WALL NO.   1
ITEM NO. 107<D-PERM >= 0.10000E-04 (BOTH WALLS)
ITEM NO. 127<D-KAED >= 0.39225   WALL NO.   1
ITEM NO. 128<D-KAEW >= 0.54154   WALL NO.   1
ITEM NO. 129<D-KPED >= 3.7685   WALL NO.   1
ITEM NO. 130<D-KPEW >= 3.0916   WALL NO.   1
ITEM NO. 138<D-TZKZ >= 10000.   (BOTH WALLS)
ITEM NO. 140<D-TZDELT>= 25.000   (BOTH WALLS)

ITEM NO. 141<D-TZALPH>= 0.50000 (BOTH WALLS)

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 2 FOR STEP NO. 4

ITEM NO. 1<NAME >= 13.000 (BOTH WALLS)
ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
ITEM NO. 3<LEVEL >= 335.00 (BOTH WALLS)
ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)
ITEM NO. 5<GAMMAD >= 20.000 (BOTH WALLS)
ITEM NO. 6<GAMMAB >= 10.000 (BOTH WALLS)
ITEM NO. 7<GAMMAW >= 10.000 (BOTH WALLS)
ITEM NO. 8<U-COHE >= 10.000 (BOTH WALLS)
ITEM NO. 9<U-FRICT >= 26.000 (BOTH WALLS)
ITEM NO. 10<U-KA >= 0.49100 WALL NO. 1
ITEM NO. 11<U-KP >= 3.4040 WALL NO. 1
ITEM NO. 12<K0-NC >= 0.56200 (BOTH WALLS)
ITEM NO. 13<NEXP >= 0.50000 (BOTH WALLS)
ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)
ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)
ITEM NO. 17<EVC >= 0.20000E+06 (BOTH WALLS)
ITEM NO. 18<EUR >= 0.60000E+06 (BOTH WALLS)
ITEM NO. 27<U-PERM >= 0.10000E-04 (BOTH WALLS)
ITEM NO. 47<U-KAED >= 0.75840 WALL NO. 1
ITEM NO. 48<U-KAEW >= 1.1113 WALL NO. 1
ITEM NO. 49<U-KPED >= 3.2803 WALL NO. 1
ITEM NO. 50<U-KPEW >= 2.7847 WALL NO. 1
ITEM NO. 58<U-TZKZ >= 10000. (BOTH WALLS)
ITEM NO. 60<U-TZDELT>= 25.000 (BOTH WALLS)
ITEM NO. 61<U-TZALPH>= 0.50000 (BOTH WALLS)
ITEM NO. 82<D-NATURE>= 1.0000 (BOTH WALLS)
ITEM NO. 83<D-LEVEL >= 0.0000 (BOTH WALLS)
ITEM NO. 88<D-COHE >= 10.000 (BOTH WALLS)
ITEM NO. 89<D-FRICT >= 26.000 (BOTH WALLS)
ITEM NO. 90<D-KA >= 0.39000 WALL NO. 1
ITEM NO. 91<D-KP >= 3.4040 WALL NO. 1
ITEM NO. 107<D-PERM >= 0.10000E-04 (BOTH WALLS)
ITEM NO. 127<D-KAED >= 0.46829 WALL NO. 1
ITEM NO. 128<D-KAEW >= 0.62500 WALL NO. 1
ITEM NO. 129<D-KPED >= 2.7754 WALL NO. 1
ITEM NO. 130<D-KPEW >= 2.2487 WALL NO. 1
ITEM NO. 138<D-TZKZ >= 10000. (BOTH WALLS)
ITEM NO. 140<D-TZDELT>= 25.000 (BOTH WALLS)
ITEM NO. 141<D-TZALPH>= 0.50000 (BOTH WALLS)

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 3 FOR STEP NO. 4

ITEM NO. 1<NAME >= 14.000 (BOTH WALLS)
ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
ITEM NO. 3<LEVEL >= 331.00 (BOTH WALLS)
ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)
ITEM NO. 5<GAMMAD >= 22.500 (BOTH WALLS)
ITEM NO. 6<GAMMAB >= 12.500 (BOTH WALLS)
ITEM NO. 7<GAMMAW >= 10.000 (BOTH WALLS)
ITEM NO. 8<U-COHE >= 50.000 (BOTH WALLS)
ITEM NO. 9<U-FRICT >= 27.000 (BOTH WALLS)
ITEM NO. 10<U-KA >= 0.48100 WALL NO. 1
ITEM NO. 11<U-KP >= 3.6010 WALL NO. 1
ITEM NO. 12<K0-NC >= 0.50000 (BOTH WALLS)
ITEM NO. 13<NEXP >= 0.50000 (BOTH WALLS)
ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)
ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)
ITEM NO. 17<EVC >= 0.10000E+06 (BOTH WALLS)
ITEM NO. 18<EUR >= 0.30000E+06 (BOTH WALLS)
ITEM NO. 27<U-PERM >= 0.10000E-03 (BOTH WALLS)
ITEM NO. 47<U-KAED >= 0.76054 WALL NO. 1
ITEM NO. 48<U-KAEW >= 1.0770 WALL NO. 1
ITEM NO. 49<U-KPED >= 3.4777 WALL NO. 1
ITEM NO. 50<U-KPEW >= 3.0819 WALL NO. 1
ITEM NO. 58<U-TZKZ >= 20000. (BOTH WALLS)
ITEM NO. 60<U-TZDELT>= 30.000 (BOTH WALLS)
ITEM NO. 61<U-TZALPH>= 0.50000 (BOTH WALLS)
ITEM NO. 82<D-NATURE>= 1.0000 (BOTH WALLS)
ITEM NO. 83<D-LEVEL >= 0.0000 (BOTH WALLS)
ITEM NO. 88<D-COHE >= 50.000 (BOTH WALLS)
ITEM NO. 89<D-FRICT >= 27.000 (BOTH WALLS)
ITEM NO. 90<D-KA >= 0.37600 WALL NO. 1
ITEM NO. 91<D-KP >= 3.6010 WALL NO. 1
ITEM NO. 107<D-PERM >= 0.10000E-03 (BOTH WALLS)
ITEM NO. 127<D-KAED >= 0.45252 WALL NO. 1
ITEM NO. 128<D-KAEW >= 0.56751 WALL NO. 1
ITEM NO. 129<D-KPED >= 2.9451 WALL NO. 1
ITEM NO. 130<D-KPEW >= 2.5269 WALL NO. 1
ITEM NO. 138<D-TZKZ >= 20000. (BOTH WALLS)
ITEM NO. 140<D-TZDELT>= 30.000 (BOTH WALLS)
ITEM NO. 141<D-TZALPH>= 0.50000 (BOTH WALLS)

DEFAULT WATER UNIT WEIGHT = 10.000
AVERAGED ON 12 VALUES

```
+-----------------------------------------------------------------------------------------------------------------------+
|                   PARATIEPLUS(TM)   NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*             |
|                                                                                                                       |
|                                                ParatiePlus                                                            |
|                                  Exe Time :28 January 2022   16:22:50                                                 |
+-----------------------------------------------------------------------------------------------------------------------+

PHASE DESCRIPTORS


STEP  NO.     1 no. of subincrements     1
                                       LEFT WALL    RIGHT WALL
Y                                       10.00       -0.9990E+30
Z-PC                                    343.0         0.000
Z-EXCAVATION                            343.0         0.000
Z-WATER_TABLE                           337.5       -0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL               0.000         0.000
ZQ                                      0.000         0.000
DZW_OF_THE_WATER_TABLE                 -0.6605E-01    0.000
QS_ON_THE_EXCAVATION_SIDE               0.000         0.000
ZQS                                     0.000       -0.9990E+30
ZCUT                                    0.000         0.000
BALANCE LEVEL FOR PORE PRESSURES        324.0         324.0
WATER_BEHAVIOUR_FLAG (LINING OPT)       0.000         0.000
PORE_UPDATE_FLAG                        0.000         0.000
PORE_TAB. _FLAG (gt.0= use tabs)        0.000         0.000
lateral thrusts reduction elevatio      0.000         0.000
Downhill reduction factor for effe      0.000         0.000
Downhill reduction factor for pore      0.000         0.000
Uphill reduction factor for effect      0.000         0.000
Uphill reduction factor for pore p      0.000         0.000
SEISMIC HORIZONTAL ACCEL. Kh [g]        0.000         0.000
UPHILL VERTICAL ACCEL.  Kv_uh [g]       0.000         0.000
DOWNHILL VERTICAL ACCEL.Kv_dh [g]       0.000         0.000
UPHILL BETA ANGLE (SLOPE) [deg]         0.000         0.000
UPHILL DELTA/PHI RATIO                  0.000         0.000
DOWNHILL BETA ANGLE (SLOPE) [deg]       0.000         0.000
DOWNHILL DELTA/PHI RATIO                0.000         0.000
DYN.WATER BEHAVIOUR                     0.000         0.000
Excess pore pressure RATIO Ru           0.000         0.000
SEISMIC PRESSURE LOWER VALUE            0.000         0.000
SEISMIC PRESSURE UPPER VALUE            0.000         0.000
SEISMIC PRESSURE LOWER LEVEL            0.000         0.000
SEISMIC PRESSURE UPPER LEVEL            0.000         0.000

=============================================================================================================end of step    1


STEP  NO.     2 no. of subincrements     1
                                       LEFT WALL    RIGHT WALL
Y                                       10.00       -0.9990E+30
Z-PC                                    339.0         0.000
Z-EXCAVATION                            339.0         0.000
Z-WATER_TABLE                           337.5       -0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL               0.000         0.000
ZQ                                      0.000         0.000
DZW_OF_THE_WATER_TABLE                 -0.3933E-01    0.000
QS_ON_THE_EXCAVATION_SIDE               0.000         0.000
ZQS                                     0.000       -0.9990E+30
ZCUT                                    0.000         0.000
BALANCE LEVEL FOR PORE PRESSURES        324.0         324.0
WATER_BEHAVIOUR_FLAG (LINING OPT)       0.000         0.000
PORE_UPDATE_FLAG                        0.000         0.000
PORE_TAB. _FLAG (gt.0= use tabs)        0.000         0.000
lateral thrusts reduction elevatio      0.000         0.000
Downhill reduction factor for effe      0.000         0.000
Downhill reduction factor for pore      0.000         0.000
Uphill reduction factor for effect      0.000         0.000
Uphill reduction factor for pore p      0.000         0.000
SEISMIC HORIZONTAL ACCEL. Kh [g]        0.000         0.000
UPHILL VERTICAL ACCEL.  Kv_uh [g]       0.000         0.000
DOWNHILL VERTICAL ACCEL.Kv_dh [g]       0.000         0.000
UPHILL BETA ANGLE (SLOPE) [deg]         0.000         0.000
UPHILL DELTA/PHI RATIO                  0.000         0.000
DOWNHILL BETA ANGLE (SLOPE) [deg]       0.000         0.000
DOWNHILL DELTA/PHI RATIO                0.000         0.000
DYN.WATER BEHAVIOUR                     0.000         0.000
Excess pore pressure RATIO Ru           0.000         0.000
SEISMIC PRESSURE LOWER VALUE            0.000         0.000
SEISMIC PRESSURE UPPER VALUE            0.000         0.000
SEISMIC PRESSURE LOWER LEVEL            0.000         0.000
SEISMIC PRESSURE UPPER LEVEL            0.000         0.000

=============================================================================================================end of step    2


STEP  NO.     3 no. of subincrements     1
                                       LEFT WALL    RIGHT WALL
Y                                       10.00       -0.9990E+30
```

Z-PC	339.0	0.000
Z-EXCAVATION	333.0	0.000
Z-WATER_TABLE	337.5	-0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL	0.000	0.000
ZQ	0.000	0.000
DZW_OF_THE_WATER_TABLE	4.973	0.000
QS_ON_THE_EXCAVATION_SIDE	0.000	0.000
ZQS	0.000	-0.9990E+30
ZCUT	0.000	0.000
BALANCE LEVEL FOR PORE PRESSURES	324.0	324.0
WATER_BEHAVIOUR_FLAG (LINING OPT)	0.000	0.000
PORE_UPDATE_FLAG	0.000	0.000
PORE_TAB. _FLAG (gt.0= use tabs)	0.000	0.000
lateral thrusts reduction elevatio	0.000	0.000
Downhill reduction factor for effe	0.000	0.000
Downhill reduction factor for pore	0.000	0.000
Uphill reduction factor for effect	0.000	0.000
Uphill reduction factor for pore p	0.000	0.000
SEISMIC HORIZONTAL ACCEL. Kh [g]	0.000	0.000
UPHILL VERTICAL ACCEL. Kv_uh [g]	0.000	0.000
DOWNHILL VERTICAL ACCEL.Kv_dh [g]	0.000	0.000
UPHILL BETA ANGLE (SLOPE) [deg]	0.000	0.000
UPHILL DELTA/PHI RATIO	0.000	0.000
DOWNHILL BETA ANGLE (SLOPE) [deg]	0.000	0.000
DOWNHILL DELTA/PHI RATIO	0.000	0.000
DYN.WATER BEHAVIOUR	0.000	0.000
Excess pore pressure RATIO Ru	0.000	0.000
SEISMIC PRESSURE LOWER VALUE	0.000	0.000
SEISMIC PRESSURE UPPER VALUE	0.000	0.000
SEISMIC PRESSURE LOWER LEVEL	0.000	0.000
SEISMIC PRESSURE UPPER LEVEL	0.000	0.000

==========end of step   3

STEP NO.   4 no. of subincrements   1

	LEFT WALL	RIGHT WALL
Y	10.00	-0.9990E+30
Z-PC	339.0	0.000
Z-EXCAVATION	333.0	0.000
Z-WATER_TABLE	337.5	-0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL	0.000	0.000
ZQ	0.000	0.000
DZW_OF_THE_WATER_TABLE	4.973	0.000
QS_ON_THE_EXCAVATION_SIDE	0.000	0.000
ZQS	0.000	-0.9990E+30
ZCUT	0.000	0.000
BALANCE LEVEL FOR PORE PRESSURES	324.0	324.0
WATER_BEHAVIOUR_FLAG (LINING OPT)	0.000	0.000
PORE_UPDATE_FLAG	0.000	0.000
PORE_TAB. _FLAG (gt.0= use tabs)	0.000	0.000
lateral thrusts reduction elevatio	0.000	0.000
Downhill reduction factor for effe	0.000	0.000
Downhill reduction factor for pore	0.000	0.000
Uphill reduction factor for effect	0.000	0.000
Uphill reduction factor for pore p	0.000	0.000
SEISMIC HORIZONTAL ACCEL. Kh [g]	-0.1454	0.000
	MANUAL	
UPHILL VERTICAL ACCEL. Kv_uh [g]	0.7270E-01	0.000
DOWNHILL VERTICAL ACCEL.Kv_dh [g]	-0.7270E-01	0.000
UPHILL BETA ANGLE (SLOPE) [deg]	0.000	0.000
UPHILL DELTA/PHI RATIO	0.5000	0.000
DOWNHILL BETA ANGLE (SLOPE) [deg]	0.000	0.000
DOWNHILL DELTA/PHI RATIO	0.5000	0.000
DYN.WATER BEHAVIOUR	0.000	0.000
Excess pore pressure RATIO Ru	0.000	0.000
SEISMIC PRESSURE LOWER VALUE	0.000	0.000
SEISMIC PRESSURE UPPER VALUE	0.000	0.000
SEISMIC PRESSURE LOWER LEVEL	0.000	0.000
SEISMIC PRESSURE UPPER LEVEL	0.000	0.000

==========end of step   4

LEFT-HAND WALL

LOWER LEVEL   324.00000
UPPER LEVEL   339.00000

RIGHT-HAND WALL

LOWER LEVEL   324.00000
UPPER LEVEL   339.00000

ELEMENT GROUPS BACKUP AREA CAN STAY IN CORE AT
POSITION   5556

NO. OF D.P.W FOR THIS AREA   11615

```
 MAX NO. OF D.P.W. AVAILABLE      81920
 ** MAX NO OF ITERATIONS SET TO          80

ITER     0 RNORM = 0.000     RMNORM= 0.000
           RINORM=0.1526E+06 RIMNOR= 0.000
           RENORM=0.4913E-01 REMNOR= 0.000     RATIO =0.5675E-03 TOLER =0.1000E-03  NOT CONVERGED
           RFMAX = 51.81     RMMAX = 0.000
           RTSMAL=0.1000E-03 RMSMAL= 0.000
           RDT   =0.1526E+06 RDR   = 0.000
           RATIOT=0.5675E-03 RATIOR= 0.000
           MAX UN= 0.000     IEQ=   152 NODE     76 DOF   2   X-ROT. F
           MIN UN=-.6510E-01 IEQ=    17 NODE      9 DOF   1  Y-DISPL.F
           NO. OF CONTACT CONSTRAINT VIOLATIONS     0


ITER     2 RNORM = 0.000     RMNORM= 0.000
           RINORM=0.1526E+06 RIMNOR= 0.000
           RENORM=0.1130E-26 REMNOR= 0.000     RATIO =0.8605E-16 TOLER =0.1000E-03      CONVERGED !
           RFMAX = 51.81     RMMAX = 0.000
           RTSMAL=0.1000E-03 RMSMAL= 0.000
           RDT   =0.1526E+06 RDR   = 0.000
           RATIOT=0.8605E-16 RATIOR= 0.000
           MAX UN=0.1421E-13 IEQ=   105 NODE     53 DOF   1  Y-DISPL.F
           MIN UN=-.1421E-13 IEQ=    99 NODE     50 DOF   1  Y-DISPL.F
           NO. OF CONTACT CONSTRAINT VIOLATIONS     0
```

```
+-----------------------------------------------------------------------------------------------------------------------+
|                   PARATIEPLUS(TM)   NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*             |
|                                                                                                                       |
|                                                ParatiePlus                                                            |
|                                  Exe Time :28 January 2022   16:22:50                                                 |
+-----------------------------------------------------------------------------------------------------------------------+
New Project
SOLUTION REACHED USING     2 ITERATIONS ON   80

P R I N T   O U T   F O R   T I M E   S T E P   1     ( AT TIME   1.000     ) SUBINCREMENT 00001/00001

PRINT OUT OF ACTIVE COMPONENTS (FIXED NODES ARE NOT PRINTED OUT)

          Y-DISPL.F        X-ROT. F
            02               04
    9  -3.1528369E-06    0.000000
   10  -3.0640234E-06    0.000000
   11  -2.9752098E-06    0.000000
   12  -2.8863963E-06    0.000000
   13  -2.7975827E-06    0.000000
   14  -2.7087247E-06    0.000000
   15  -2.6199112E-06    0.000000
   16  -2.5310976E-06    0.000000
   17  -2.4422841E-06    0.000000
   18  -2.3534705E-06    0.000000
   19  -2.2646569E-06    0.000000
   20  -2.1758434E-06    0.000000
   21  -3.5283727E-07    0.000000
   22  -3.3781477E-07    0.000000
   23  -3.2279978E-07    0.000000
   24  -3.0778479E-07    0.000000
   25  -2.9276980E-07    0.000000
   26  -2.7775481E-07    0.000000
   27  -2.6273981E-07    0.000000
   28  -2.4772482E-07    0.000000
   29  -2.3270983E-07    0.000000
   30  -2.1768734E-07    0.000000
   31  -2.0267234E-07    0.000000
   32  -1.8765735E-07    0.000000
   33  -1.7264236E-07    0.000000
   34  -1.5762737E-07    0.000000
   35  -1.4261238E-07    0.000000
   36  -1.2759739E-07    0.000000
   37  -1.1258240E-07    0.000000
   38  -9.7559902E-08    0.000000
   39  -8.2544911E-08    0.000000
   40  -6.7529921E-08    0.000000
   41  -1.2089843E-07    0.000000
   42  -1.1744394E-07    0.000000
   43  -1.1398946E-07    0.000000
   44  -1.1053497E-07    0.000000
   45  -1.0708048E-07    0.000000
   46  -1.0362599E-07    0.000000
   47  -1.0016978E-07    0.000000
   48  -9.6715290E-08    0.000000
   49  -9.3260803E-08    0.000000
   50  -8.9806315E-08    0.000000
   51  -8.6351827E-08    0.000000
   52  -8.2897340E-08    0.000000
   53  -7.9442852E-08    0.000000
   54  -7.5988364E-08    0.000000
   55  -7.2532149E-08    0.000000
   56  -6.9077662E-08    0.000000
   57  -6.5623174E-08    0.000000
   58  -6.2168687E-08    0.000000
   59  -5.8714199E-08    0.000000
   60  -5.5259711E-08    0.000000
   61  -5.1805224E-08    0.000000
   62  -4.8350736E-08    0.000000
   63  -4.4894521E-08    0.000000
   64  -4.1440034E-08    0.000000
   65  -3.7985546E-08    0.000000
   66  -3.4531058E-08    0.000000
   67  -3.1076571E-08    0.000000
   68  -2.7622083E-08    0.000000
   69  -2.4167595E-08    0.000000
   70  -2.0713108E-08    0.000000
   71  -1.7256893E-08    0.000000
   72  -1.3802405E-08    0.000000
   73  -1.0347918E-08    0.000000
   74  -6.8934301E-09    0.000000
   75  -3.4389424E-09    0.000000
```

```
+-----------------------------------------------------------------------------------------------------------------------+
|                  PARATIEPLUS(TM)   NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*             |
|                                                                                                                       |
|                                            ParatiePlus                                                                |
|                                  Exe Time :28 January 2022   16:22:50                                                 |
+-----------------------------------------------------------------------------------------------------------------------+
New Project


S T R E S S   R E S U L T S   F O R   G R O U P   N O.   1

0_L                                                    :
ELEMENT TYPE    5 NO.OF ELEMENTS. IN THIS GROUP   76
C U R R E N T   T I M E   I S      1.0000 SUBINCREMENT 00001/00001

 HARDENING 2D SOIL ELEMENT

 ****** TOTAL STRESS FORMULATION *****

  EL *   FORCE     DISPL-Y  VERTICAL-P  HORIZON.-P     MAX-V-P     MAX-H-P          STATE   STIFFNESS Z-LEVEL      PORE       E FAC-
TOR    UFACTOR       Peq          Su_a        Su_p        Cohe_a      Cohe_p     LAYER                              ZFO         QS
QSL         ZD          ZPL          Kz
 ------------------------------------------------------------------------------------------------------------------------------
-----------------------------------------------------------------------------------------------------------------------------
-----------------------------------------------
   1 D   3.800       0.000       76.00       38.00       76.00       38.00           V-C  3.5350E+04   339.0       0.000
1.000       1.000       38.00       0.000       0.000       0.000       0.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   2 D   7.980       0.000       79.80       39.90       79.80       39.90           V-C  3.5350E+04   338.8       0.000
1.000       1.000       39.90       0.000       0.000       0.000       0.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   3 D   8.360       0.000       83.60       41.80       83.60       41.80           V-C  3.5350E+04   338.6       0.000
1.000       1.000       41.80       0.000       0.000       0.000       0.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   4 D   8.740       0.000       87.40       43.70       87.40       43.70           V-C  3.5350E+04   338.4       0.000
1.000       1.000       43.70       0.000       0.000       0.000       0.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   5 D   9.120       0.000       91.20       45.60       91.20       45.60           V-C  3.5350E+04   338.2       0.000
1.000       1.000       45.60       0.000       0.000       0.000       0.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   6 D   9.500       0.000       95.00       47.50       95.00       47.50           V-C  3.5350E+04   338.0       0.000
1.000       1.000       47.50       0.000       0.000       0.000       0.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   7 D   9.880       0.000       98.80       49.40       98.80       49.40           V-C  3.5350E+04   337.8       0.000
1.000       1.000       49.40       0.000       0.000       0.000       0.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   8 D   10.26       0.000       102.6       51.30       102.6       51.30           V-C  3.5350E+04   337.6       0.000
1.000       1.000       51.30       0.000       0.000       0.000       0.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   9 D   10.73     3.1528E-06    105.7       52.96       105.7       52.96           V-C  3.5350E+04   337.4       0.7042
1.000       1.000       53.66       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  10 D   11.31     3.0640E-06    107.5       53.85       107.5       53.85           V-C  3.5350E+04   337.2       2.713
1.000       1.000       56.57       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  11 D   11.89     2.9752E-06    109.3       54.74       109.3       54.74           V-C  3.5350E+04   337.0       4.723
1.000       1.000       59.47       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  12 D   12.47     2.8864E-06    111.1       55.64       111.1       55.64           V-C  3.5350E+04   336.8       6.732
1.000       1.000       62.37       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  13 D   13.05     2.7976E-06    112.9       56.53       112.9       56.53           V-C  3.5350E+04   336.6       8.741
1.000       1.000       65.27       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  14 D   13.63     2.7087E-06    114.7       57.42       114.7       57.42           V-C  3.5350E+04   336.4       10.75
1.000       1.000       68.17       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  15 D   14.21     2.6199E-06    116.4       58.31       116.4       58.31           V-C  3.5350E+04   336.2       12.76
1.000       1.000       71.07       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  16 D   14.80     2.5311E-06    118.2       59.21       118.2       59.21           V-C  3.5350E+04   336.0       14.77
1.000       1.000       73.98       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  17 D   15.38     2.4423E-06    120.0       60.10       120.0       60.10           V-C  3.5350E+04   335.8       16.78
1.000       1.000       76.88       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  18 D   15.96     2.3535E-06    121.8       60.99       121.8       60.99           V-C  3.5350E+04   335.6       18.79
1.000       1.000       79.78       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  19 D   16.54     2.2647E-06    123.6       61.88       123.6       61.88           V-C  3.5350E+04   335.4       20.80
1.000       1.000       82.68       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  20 D   17.12     2.1758E-06    125.4       62.78       125.4       62.78           V-C  3.5350E+04   335.2       22.81
1.000       1.000       85.58       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  21 D   19.27     3.5284E-07    127.2       71.54       127.2       71.54           V-C  1.6003E+05   335.0       24.82
1.000       1.000       96.35       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  22 D   19.90     3.3781E-07    129.2       72.65       129.2       72.65           V-C  1.6003E+05   334.8       26.83
```

```
1.000       1.000       99.48       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  23 D   20.52      3.2280E-07   131.2       73.77       131.2       73.77           V-C  1.6003E+05   334.6       28.83
1.000       1.000       102.6       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  24 D   21.15      3.0778E-07   133.2       74.89       133.2       74.89           V-C  1.6003E+05   334.4       30.84
1.000       1.000       105.7       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  25 D   21.77      2.9277E-07   135.2       76.00       135.2       76.00           V-C  1.6003E+05   334.2       32.85
1.000       1.000       108.9       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  26 D   22.40      2.7775E-07   137.1       77.12       137.1       77.12           V-C  1.6003E+05   334.0       34.86
1.000       1.000       112.0       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  27 D   23.02      2.6274E-07   139.1       78.24       139.1       78.24           V-C  1.6003E+05   333.8       36.87
1.000       1.000       115.1       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  28 D   23.65      2.4772E-07   141.1       79.35       141.1       79.35           V-C  1.6003E+05   333.6       38.88
1.000       1.000       118.2       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  29 D   24.27      2.3271E-07   143.1       80.47       143.1       80.47           V-C  1.6003E+05   333.4       40.89
1.000       1.000       121.4       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  30 D   24.90      2.1769E-07   145.1       81.59       145.1       81.59           V-C  1.6003E+05   333.2       42.90
1.000       1.000       124.5       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  31 D   25.52      2.0267E-07   147.1       82.70       147.1       82.70           V-C  1.6003E+05   333.0       44.91
1.000       1.000       127.6       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  32 D   26.15      1.8766E-07   149.1       83.82       149.1       83.82           V-C  1.6003E+05   332.8       46.92
1.000       1.000       130.7       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  33 D   26.77      1.7264E-07   151.1       84.93       151.1       84.93           V-C  1.6003E+05   332.6       48.93
1.000       1.000       133.9       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  34 D   27.40      1.5763E-07   153.1       86.05       153.1       86.05           V-C  1.6003E+05   332.4       50.94
1.000       1.000       137.0       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  35 D   28.02      1.4261E-07   155.1       87.17       155.1       87.17           V-C  1.6003E+05   332.2       52.95
1.000       1.000       140.1       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  36 D   28.65      1.2760E-07   157.1       88.28       157.1       88.28           V-C  1.6003E+05   332.0       54.95
1.000       1.000       143.2       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  37 D   29.27      1.1258E-07   159.0       89.40       159.0       89.40           V-C  1.6003E+05   331.8       56.96
1.000       1.000       146.4       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  38 D   29.90      9.7560E-08   161.0       90.52       161.0       90.52           V-C  1.6003E+05   331.6       58.97
1.000       1.000       149.5       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  39 D   30.52      8.2545E-08   163.0       91.63       163.0       91.63           V-C  1.6003E+05   331.4       60.98
1.000       1.000       152.6       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  40 D   31.15      6.7530E-08   165.0       92.75       165.0       92.75           V-C  1.6003E+05   331.2       62.99
1.000       1.000       155.7       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  41 D   29.70      1.2090E-07   167.0       83.51       167.0       83.51           V-C  8.1593E+04   331.0       65.00
1.000       1.000       148.5       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  42 D   30.35      1.1744E-07   169.5       84.76       169.5       84.76           V-C  8.1593E+04   330.8       67.00
1.000       1.000       151.8       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  43 D   31.00      1.1399E-07   172.0       86.01       172.0       86.01           V-C  8.1593E+04   330.6       69.00
1.000       1.000       155.0       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  44 D   31.65      1.1053E-07   174.5       87.26       174.5       87.26           V-C  8.1593E+04   330.4       71.00
1.000       1.000       158.3       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  45 D   32.30      1.0708E-07   177.0       88.51       177.0       88.51           V-C  8.1593E+04   330.2       73.01
1.000       1.000       161.5       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  46 D   32.95      1.0363E-07   179.5       89.76       179.5       89.76           V-C  8.1593E+04   330.0       75.01
1.000       1.000       164.8       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  47 D   33.60      1.0017E-07   182.0       91.01       182.0       91.01           V-C  8.1593E+04   329.8       77.01
1.000       1.000       168.0       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  48 D   34.25      9.6715E-08   184.5       92.26       184.5       92.26           V-C  8.1593E+04   329.6       79.01
1.000       1.000       171.3       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  49 D   34.90      9.3261E-08   187.0       93.51       187.0       93.51           V-C  8.1593E+04   329.4       81.01
1.000       1.000       174.5       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  50 D   35.55      8.9806E-08   189.5       94.76       189.5       94.76           V-C  8.1593E+04   329.2       83.01
1.000       1.000       177.8       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  51 D   36.20      8.6352E-08   192.0       96.01       192.0       96.01           V-C  8.1593E+04   329.0       85.01
1.000       1.000       181.0       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  52 D   36.85      8.2897E-08   194.5       97.26       194.5       97.26           V-C  8.1593E+04   328.8       87.01
1.000       1.000       184.3       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
```

53 D	37.50	7.9443E-08	197.0	98.51	197.0	98.51	V-C	8.1593E+04	328.6	89.01
1.000	1.000	187.5	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
54 D	38.15	7.5988E-08	199.5	99.76	199.5	99.76	V-C	8.1593E+04	328.4	91.01
1.000	1.000	190.8	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
55 D	38.80	7.2532E-08	202.0	101.0	202.0	101.0	V-C	8.1593E+04	328.2	93.02
1.000	1.000	194.0	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
56 D	39.45	6.9078E-08	204.5	102.3	204.5	102.3	V-C	8.1593E+04	328.0	95.02
1.000	1.000	197.3	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
57 D	40.10	6.5623E-08	207.0	103.5	207.0	103.5	V-C	8.1593E+04	327.8	97.02
1.000	1.000	200.5	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
58 D	40.75	6.2169E-08	209.5	104.8	209.5	104.8	V-C	8.1593E+04	327.6	99.02
1.000	1.000	203.8	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
59 D	41.40	5.8714E-08	212.0	106.0	212.0	106.0	V-C	8.1593E+04	327.4	101.0
1.000	1.000	207.0	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
60 D	42.05	5.5260E-08	214.5	107.3	214.5	107.3	V-C	8.1593E+04	327.2	103.0
1.000	1.000	210.3	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
61 D	42.70	5.1805E-08	217.0	108.5	217.0	108.5	V-C	8.1593E+04	327.0	105.0
1.000	1.000	213.5	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
62 D	43.35	4.8351E-08	219.5	109.8	219.5	109.8	V-C	8.1593E+04	326.8	107.0
1.000	1.000	216.8	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
63 D	44.01	4.4895E-08	222.0	111.0	222.0	111.0	V-C	8.1593E+04	326.6	109.0
1.000	1.000	220.0	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
64 D	44.66	4.1440E-08	224.5	112.2	224.5	112.2	V-C	8.1593E+04	326.4	111.0
1.000	1.000	223.3	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
65 D	45.31	3.7986E-08	227.0	113.5	227.0	113.5	V-C	8.1593E+04	326.2	113.0
1.000	1.000	226.5	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
66 D	45.96	3.4531E-08	229.5	114.7	229.5	114.7	V-C	8.1593E+04	326.0	115.0
1.000	1.000	229.8	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
67 D	46.61	3.1077E-08	232.0	116.0	232.0	116.0	V-C	8.1593E+04	325.8	117.0
1.000	1.000	233.0	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
68 D	47.26	2.7622E-08	234.5	117.2	234.5	117.2	V-C	8.1593E+04	325.6	119.0
1.000	1.000	236.3	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
69 D	47.91	2.4168E-08	237.0	118.5	237.0	118.5	V-C	8.1593E+04	325.4	121.0
1.000	1.000	239.5	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
70 D	48.56	2.0713E-08	239.5	119.7	239.5	119.7	V-C	8.1593E+04	325.2	123.0
1.000	1.000	242.8	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
71 D	49.21	1.7257E-08	242.0	121.0	242.0	121.0	V-C	8.1593E+04	325.0	125.0
1.000	1.000	246.0	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
72 D	49.86	1.3802E-08	244.5	122.2	244.5	122.2	V-C	8.1593E+04	324.8	127.0
1.000	1.000	249.3	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
73 D	50.51	1.0348E-08	247.0	123.5	247.0	123.5	V-C	8.1593E+04	324.6	129.0
1.000	1.000	252.5	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
74 D	51.16	6.8934E-09	249.5	124.7	249.5	124.7	V-C	8.1593E+04	324.4	131.0
1.000	1.000	255.8	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
75 D	51.81	3.4389E-09	252.0	126.0	252.0	126.0	V-C	8.1593E+04	324.2	133.0
1.000	1.000	259.0	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
76 D	26.23	9.9465E-19	254.5	127.2	254.5	127.2	V-C	8.1593E+04	324.0	135.0
1.000	1.000	262.3	0.000	0.000	0.000	0.000	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						

```
+-----------------------------------------------------------------------------------------------------------------------------+
|                  PARATIEPLUS(TM)   NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*                    |
|                                                                                                                             |
|                                              ParatiePlus                                                                    |
|                                    Exe Time :28 January 2022   16:22:50                                                     |
+-----------------------------------------------------------------------------------------------------------------------------+
New Project


S T R E S S   R E S U L T S   F O R   G R O U P   N O.   2

0_R                                                    :
ELEMENT TYPE    5 NO.OF ELEMENTS. IN THIS GROUP   76
C U R R E N T   T I M E   I S      1.0000 SUBINCREMENT 00001/00001

 HARDENING 2D SOIL ELEMENT

 ****** TOTAL STRESS FORMULATION *****

  EL *   FORCE     DISPL-Y  VERTICAL-P  HORIZON.-P     MAX-V-P     MAX-H-P          STATE   STIFFNESS Z-LEVEL      PORE       E FAC-
TOR    UFACTOR       Peq          Su_a        Su_p        Cohe_a      Cohe_p     LAYER                              ZFO         QS
QSL         ZD          ZPL          Kz
 ------------------------------------------------------------------------------------------------------------------------------
-----------------------------------------------------------------------------------------------------------------------------
-----------------------------------------------
   1 D   3.800       0.000       76.00       38.00       76.00       38.00           V-C  2.2631E+04   339.0       0.000
1.000       1.000       38.00       0.000       0.000       0.000       0.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   2 D   7.980       0.000       79.80       39.90       79.80       39.90           V-C  2.2631E+04   338.8       0.000
1.000       1.000       39.90       0.000       0.000       0.000       0.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   3 D   8.360       0.000       83.60       41.80       83.60       41.80           V-C  2.2631E+04   338.6       0.000
1.000       1.000       41.80       0.000       0.000       0.000       0.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   4 D   8.740       0.000       87.40       43.70       87.40       43.70           V-C  2.2631E+04   338.4       0.000
1.000       1.000       43.70       0.000       0.000       0.000       0.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   5 D   9.120       0.000       91.20       45.60       91.20       45.60           V-C  2.2631E+04   338.2       0.000
1.000       1.000       45.60       0.000       0.000       0.000       0.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   6 D   9.500       0.000       95.00       47.50       95.00       47.50           V-C  2.2631E+04   338.0       0.000
1.000       1.000       47.50       0.000       0.000       0.000       0.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   7 D   9.880       0.000       98.80       49.40       98.80       49.40           V-C  2.2631E+04   337.8       0.000
1.000       1.000       49.40       0.000       0.000       0.000       0.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   8 D   10.26       0.000       102.6       51.30       102.6       51.30           V-C  2.2631E+04   337.6       0.000
1.000       1.000       51.30       0.000       0.000       0.000       0.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   9 D   10.73     -3.1528E-06   105.0       52.31       105.0       52.52          UL-RL  6.7893E+04   337.4       1.355
1.000       1.000       53.66       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  10 D   11.31     -3.0640E-06   106.9       53.22       106.9       53.43          UL-RL  6.7893E+04   337.2       3.346
1.000       1.000       56.57       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  11 D   11.89     -2.9752E-06   108.7       54.13       108.7       54.33          UL-RL  6.7893E+04   337.0       5.337
1.000       1.000       59.47       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  12 D   12.47     -2.8864E-06   110.5       55.04       110.5       55.24          UL-RL  6.7893E+04   336.8       7.328
1.000       1.000       62.37       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  13 D   13.05     -2.7976E-06   112.3       55.95       112.3       56.14          UL-RL  6.7893E+04   336.6       9.319
1.000       1.000       65.27       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  14 D   13.63     -2.7087E-06   114.1       56.86       114.1       57.05          UL-RL  6.7893E+04   336.4       11.31
1.000       1.000       68.17       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  15 D   14.21     -2.6199E-06   115.9       57.77       115.9       57.95          UL-RL  6.7893E+04   336.2       13.30
1.000       1.000       71.07       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  16 D   14.80     -2.5311E-06   117.7       58.68       117.7       58.86          UL-RL  6.7893E+04   336.0       15.29
1.000       1.000       73.98       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  17 D   15.38     -2.4423E-06   119.5       59.59       119.5       59.76          UL-RL  6.7893E+04   335.8       17.28
1.000       1.000       76.88       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  18 D   15.96     -2.3535E-06   121.3       60.51       121.3       60.67          UL-RL  6.7893E+04   335.6       19.27
1.000       1.000       79.78       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  19 D   16.54     -2.2647E-06   123.1       61.42       123.1       61.57          UL-RL  6.7893E+04   335.4       21.26
1.000       1.000       82.68       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  20 D   17.12     -2.1758E-06   124.9       62.33       124.9       62.47          UL-RL  6.7893E+04   335.2       23.26
1.000       1.000       85.58       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  21 D   19.27     -3.5284E-07   126.8       71.11       126.8       71.24          UL-RL  3.7492E+05   335.0       25.25
1.000       1.000       96.35       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  22 D   19.90     -3.3781E-07   128.8       72.24       128.8       72.37          UL-RL  3.7492E+05   334.8       27.24
```

```
1.000       1.000       99.48       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  23 D   20.52     -3.2280E-07   130.8       73.38       130.8       73.50          UL-RL  3.7492E+05   334.6       29.23
1.000       1.000       102.6       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  24 D   21.15     -3.0778E-07   132.8       74.51       132.8       74.63          UL-RL  3.7492E+05   334.4       31.22
1.000       1.000       105.7       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  25 D   21.77     -2.9277E-07   134.8       75.65       134.8       75.76          UL-RL  3.7492E+05   334.2       33.21
1.000       1.000       108.9       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  26 D   22.40     -2.7775E-07   136.8       76.78       136.8       76.88          UL-RL  3.7492E+05   334.0       35.20
1.000       1.000       112.0       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  27 D   23.02     -2.6274E-07   138.8       77.91       138.8       78.01          UL-RL  3.7492E+05   333.8       37.19
1.000       1.000       115.1       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  28 D   23.65     -2.4772E-07   140.8       79.05       140.8       79.14          UL-RL  3.7492E+05   333.6       39.18
1.000       1.000       118.2       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  29 D   24.27     -2.3271E-07   142.8       80.18       142.8       80.27          UL-RL  3.7492E+05   333.4       41.17
1.000       1.000       121.4       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  30 D   24.90     -2.1769E-07   144.8       81.32       144.8       81.40          UL-RL  3.7492E+05   333.2       43.17
1.000       1.000       124.5       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  31 D   25.52     -2.0267E-07   146.9       82.45       146.9       82.53          UL-RL  3.7492E+05   333.0       45.16
1.000       1.000       127.6       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  32 D   26.15     -1.8766E-07   148.9       83.59       148.9       83.66          UL-RL  3.7492E+05   332.8       47.15
1.000       1.000       130.7       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  33 D   26.77     -1.7264E-07   150.9       84.72       150.9       84.79          UL-RL  3.7492E+05   332.6       49.14
1.000       1.000       133.9       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  34 D   27.40     -1.5763E-07   152.9       85.86       152.9       85.92          UL-RL  3.7492E+05   332.4       51.13
1.000       1.000       137.0       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  35 D   28.02     -1.4261E-07   154.9       86.99       154.9       87.05          UL-RL  3.7492E+05   332.2       53.12
1.000       1.000       140.1       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  36 D   28.65     -1.2760E-07   156.9       88.13       156.9       88.18          UL-RL  3.7492E+05   332.0       55.11
1.000       1.000       143.2       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  37 D   29.27     -1.1258E-07   158.9       89.26       158.9       89.31          UL-RL  3.7492E+05   331.8       57.10
1.000       1.000       146.4       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  38 D   29.90     -9.7560E-08   160.9       90.40       160.9       90.44          UL-RL  3.7492E+05   331.6       59.09
1.000       1.000       149.5       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  39 D   30.52     -8.2545E-08   162.9       91.53       162.9       91.56          UL-RL  3.7492E+05   331.4       61.08
1.000       1.000       152.6       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  40 D   31.15     -6.7530E-08   164.9       92.67       164.9       92.69          UL-RL  3.7492E+05   331.2       63.07
1.000       1.000       155.7       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  41 D   29.70     -1.2090E-07   166.9       83.45       166.9       83.47          UL-RL  1.8384E+05   331.0       65.07
1.000       1.000       148.5       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  42 D   30.35     -1.1744E-07   169.4       84.70       169.4       84.72          UL-RL  1.8384E+05   330.8       67.06
1.000       1.000       151.8       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  43 D   31.00     -1.1399E-07   171.9       85.95       171.9       85.97          UL-RL  1.8384E+05   330.6       69.06
1.000       1.000       155.0       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  44 D   31.65     -1.1053E-07   174.4       87.20       174.4       87.22          UL-RL  1.8384E+05   330.4       71.06
1.000       1.000       158.3       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  45 D   32.30     -1.0708E-07   176.9       88.45       176.9       88.47          UL-RL  1.8384E+05   330.2       73.06
1.000       1.000       161.5       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  46 D   32.95     -1.0363E-07   179.5       89.71       179.5       89.73          UL-RL  1.8384E+05   330.0       75.06
1.000       1.000       164.8       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  47 D   33.60     -1.0017E-07   182.0       90.96       182.0       90.98          UL-RL  1.8384E+05   329.8       77.06
1.000       1.000       168.0       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  48 D   34.25     -9.6715E-08   184.5       92.21       184.5       92.23          UL-RL  1.8384E+05   329.6       79.06
1.000       1.000       171.3       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  49 D   34.90     -9.3261E-08   187.0       93.46       187.0       93.48          UL-RL  1.8384E+05   329.4       81.06
1.000       1.000       174.5       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  50 D   35.55     -8.9806E-08   189.5       94.71       189.5       94.73          UL-RL  1.8384E+05   329.2       83.06
1.000       1.000       177.8       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  51 D   36.20     -8.6352E-08   192.0       95.96       192.0       95.98          UL-RL  1.8384E+05   329.0       85.06
1.000       1.000       181.0       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  52 D   36.85     -8.2897E-08   194.5       97.21       194.5       97.23          UL-RL  1.8384E+05   328.8       87.06
1.000       1.000       184.3       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
```

53 D	37.50	-7.9443E-08	197.0	98.46	197.0	98.48	UL-RL	1.8384E+05	328.6	89.06
1.000	1.000	187.5	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
54 D	38.15	-7.5988E-08	199.5	99.72	199.5	99.73	UL-RL	1.8384E+05	328.4	91.05
1.000	1.000	190.8	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
55 D	38.80	-7.2532E-08	202.0	101.0	202.0	101.0	UL-RL	1.8384E+05	328.2	93.05
1.000	1.000	194.0	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
56 D	39.45	-6.9078E-08	204.5	102.2	204.5	102.2	UL-RL	1.8384E+05	328.0	95.05
1.000	1.000	197.3	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
57 D	40.10	-6.5623E-08	207.0	103.5	207.0	103.5	UL-RL	1.8384E+05	327.8	97.05
1.000	1.000	200.5	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
58 D	40.75	-6.2169E-08	209.5	104.7	209.5	104.7	UL-RL	1.8384E+05	327.6	99.05
1.000	1.000	203.8	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
59 D	41.40	-5.8714E-08	212.0	106.0	212.0	106.0	UL-RL	1.8384E+05	327.4	101.1
1.000	1.000	207.0	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
60 D	42.05	-5.5260E-08	214.5	107.2	214.5	107.2	UL-RL	1.8384E+05	327.2	103.1
1.000	1.000	210.3	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
61 D	42.70	-5.1805E-08	217.0	108.5	217.0	108.5	UL-RL	1.8384E+05	327.0	105.0
1.000	1.000	213.5	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
62 D	43.35	-4.8351E-08	219.5	109.7	219.5	109.7	UL-RL	1.8384E+05	326.8	107.0
1.000	1.000	216.8	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
63 D	44.01	-4.4895E-08	222.0	111.0	222.0	111.0	UL-RL	1.8384E+05	326.6	109.0
1.000	1.000	220.0	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
64 D	44.66	-4.1440E-08	224.5	112.2	224.5	112.2	UL-RL	1.8384E+05	326.4	111.0
1.000	1.000	223.3	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
65 D	45.31	-3.7986E-08	227.0	113.5	227.0	113.5	UL-RL	1.8384E+05	326.2	113.0
1.000	1.000	226.5	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
66 D	45.96	-3.4531E-08	229.5	114.7	229.5	114.7	UL-RL	1.8384E+05	326.0	115.0
1.000	1.000	229.8	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
67 D	46.61	-3.1077E-08	232.0	116.0	232.0	116.0	UL-RL	1.8384E+05	325.8	117.0
1.000	1.000	233.0	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
68 D	47.26	-2.7622E-08	234.5	117.2	234.5	117.2	UL-RL	1.8384E+05	325.6	119.0
1.000	1.000	236.3	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
69 D	47.91	-2.4168E-08	237.0	118.5	237.0	118.5	UL-RL	1.8384E+05	325.4	121.0
1.000	1.000	239.5	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
70 D	48.56	-2.0713E-08	239.5	119.7	239.5	119.7	UL-RL	1.8384E+05	325.2	123.0
1.000	1.000	242.8	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
71 D	49.21	-1.7257E-08	242.0	121.0	242.0	121.0	UL-RL	1.8384E+05	325.0	125.0
1.000	1.000	246.0	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
72 D	49.86	-1.3802E-08	244.5	122.2	244.5	122.2	UL-RL	1.8384E+05	324.8	127.0
1.000	1.000	249.3	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
73 D	50.51	-1.0348E-08	247.0	123.5	247.0	123.5	UL-RL	1.8384E+05	324.6	129.0
1.000	1.000	252.5	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
74 D	51.16	-6.8934E-09	249.5	124.7	249.5	124.7	UL-RL	1.8384E+05	324.4	131.0
1.000	1.000	255.8	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
75 D	51.81	-3.4389E-09	252.0	126.0	252.0	126.0	UL-RL	1.8384E+05	324.2	133.0
1.000	1.000	259.0	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
76 D	26.23	-9.9465E-19	254.5	127.2	254.5	127.2	V-C	6.1280E+04	324.0	135.0
1.000	1.000	262.3	0.000	0.000	0.000	0.000	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						

```
+-----------------------------------------------------------------------------------------------------------------------+
|                   PARATIEPLUS(TM)   NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*             |
|                                                                                                                       |
|                                                ParatiePlus                                                            |
|                                  Exe Time :28 January 2022   16:22:50                                                 |
+-----------------------------------------------------------------------------------------------------------------------+
New Project


S T R E S S   R E S U L T S   F O R   G R O U P   N O.   3

Pali1500_253215                                              :
ELEMENT TYPE    2 NO.OF ELEMENTS. IN THIS GROUP   75
C U R R E N T   T I M E   I S      1.0000 SUBINCREMENT 00001/00001

 WALL2D ELEMENT

   EL      TA          TB          MA          MB
-------------------------------------------------

***** NO ONE ELEMENT ACTIVE AT CURRENT STEP *****

ITER     0 RNORM = 0.000     RMNORM= 0.000
           RINORM=0.1166E+06 RIMNOR= 0.000
           RENORM=0.1892E-01 REMNOR= 0.000     RATIO =0.4029E-03 TOLER =0.1000E-03  NOT CONVERGED
           RFMAX = 47.65     RMMAX = 0.000
           RTSMAL=0.1000E-03 RMSMAL= 0.000
           RDT   =0.1166E+06 RDR   = 0.000
           RATIOT=0.4029E-03 RATIOR= 0.000
           MAX UN=0.4135E-01 IEQ=    17 NODE      9 DOF   1  Y-DISPL.F
           MIN UN= 0.000     IEQ=     1 NODE      1 DOF   1  Y-DISPL.F
           NO. OF CONTACT CONSTRAINT VIOLATIONS     0


ITER     2 RNORM = 0.000     RMNORM= 0.000
           RINORM=0.1166E+06 RIMNOR= 0.000
           RENORM=0.3436E-22 REMNOR=0.1559E-24 RATIO =0.1717E-13 TOLER =0.1000E-03      CONVERGED !
           RFMAX = 47.65     RMMAX = 0.000
           RTSMAL=0.1000E-03 RMSMAL= 0.000
           RDT   =0.1166E+06 RDR   = 0.000
           RATIOT=0.1717E-13 RATIOR= 0.000
           MAX UN=0.2430E-11 IEQ=    31 NODE     16 DOF   1  Y-DISPL.F
           MIN UN=-.2402E-11 IEQ=    29 NODE     15 DOF   1  Y-DISPL.F
           NO. OF CONTACT CONSTRAINT VIOLATIONS     0
```

New Project
SOLUTION REACHED USING   2 ITERATIONS ON   80

P R I N T   O U T   F O R   T I M E   S T E P   2   (AT TIME   2.000   ) SUBINCREMENT 00001/00001

PRINT OUT OF ACTIVE COMPONENTS (FIXED NODES ARE NOT PRINTED OUT)

	Y-DISPL.F 02	X-ROT. F 04
1	4.5879150E-07	-1.6006488E-08
2	4.5558910E-07	-1.6023025E-08
3	4.5237448E-07	-1.6156784E-08
4	4.4910739E-07	-1.6575461E-08
5	4.4571420E-07	-1.7445559E-08
6	4.4208616E-07	-1.8933268E-08
7	4.3808710E-07	-2.1201075E-08
8	4.3354285E-07	-2.4412114E-08
9	-2.7245883E-06	-2.8727373E-08
10	-2.6420411E-06	-3.4086484E-08
11	-2.5606471E-06	-4.0215649E-08
12	-2.4805342E-06	-4.6854664E-08
13	-2.4017793E-06	-5.3755789E-08
14	-2.3243728E-06	-6.0686131E-08
15	-2.2483743E-06	-6.7412841E-08
16	-2.1736830E-06	-7.3722978E-08
17	-2.1001947E-06	-7.9408758E-08
18	-2.0277645E-06	-8.4270273E-08
19	-1.9562079E-06	-8.8114815E-08
20	-1.8853031E-06	-9.0756289E-08
21	-8.0598573E-08	-9.2014738E-08
22	-8.3999248E-08	-9.1918535E-08
23	-8.7262325E-08	-9.0691451E-08
24	-9.0183950E-08	-8.8535917E-08
25	-9.2596877E-08	-8.5632886E-08
26	-9.4367982E-08	-8.2142737E-08
27	-9.5394232E-08	-7.8206209E-08
28	-9.5598876E-08	-7.3945560E-08
29	-9.4927875E-08	-6.9465909E-08
30	-9.3345599E-08	-6.4854374E-08
31	-9.0835467E-08	-6.0190889E-08
32	-8.7392546E-08	-5.5535990E-08
33	-8.3023917E-08	-5.0941634E-08
34	-7.7746104E-08	-4.6450565E-08
35	-7.1583392E-08	-4.2097938E-08
36	-6.4566472E-08	-3.7912920E-08
37	-5.6731400E-08	-3.3920237E-08
38	-4.8114366E-08	-3.0139841E-08
39	-3.8768866E-08	-2.6595780E-08
40	-2.8739664E-08	-2.3306217E-08
41	-8.6463253E-08	-2.0292368E-08
42	-8.6789478E-08	-1.7561181E-08
43	-8.6596972E-08	-1.5103319E-08
44	-8.5939292E-08	-1.2907383E-08
45	-8.4867544E-08	-1.0960353E-08
46	-8.3430102E-08	-9.2479891E-09
47	-8.1671449E-08	-7.7544873E-09
48	-7.9635712E-08	-6.4656729E-09
49	-7.7361272E-08	-5.3647914E-09
50	-7.4884115E-08	-4.4358342E-09
51	-7.2237035E-08	-3.6629394E-09
52	-6.9449683E-08	-3.0305603E-09
53	-6.6548645E-08	-2.5236061E-09
54	-6.3557544E-08	-2.1275572E-09
55	-6.0495618E-08	-1.8284302E-09
56	-5.7384021E-08	-1.6134036E-09
57	-5.4236778E-08	-1.4699752E-09
58	-5.1067043E-08	-1.3866448E-09
59	-4.7885757E-08	-1.3527685E-09
60	-4.4701820E-08	-1.3585744E-09
61	-4.1522264E-08	-1.3951688E-09
62	-3.8352431E-08	-1.4545360E-09
63	-3.5194571E-08	-1.5295729E-09
64	-3.2054326E-08	-1.6139221E-09
65	-2.8931426E-08	-1.7021844E-09
66	-2.5826179E-08	-1.7897596E-09
67	-2.2738056E-08	-1.8728653E-09
68	-1.9665853E-08	-1.9485219E-09
69	-1.6607847E-08	-2.0145373E-09
70	-1.3561955E-08	-2.0694943E-09
71	-1.0524373E-08	-2.1127577E-09
72	-7.4957887E-09	-2.1443837E-09
73	-4.4724331E-09	-2.1652431E-09
74	-1.4522988E-09	-2.1769231E-09

```
75   1.5662299E-09  -2.1817481E-09
76   4.5706495E-09  -2.1827789E-09
```

```
+-----------------------------------------------------------------------------------------------------------------------------+
|                  PARATIEPLUS(TM)   NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*                    |
|                                                                                                                             |
|                                              ParatiePlus                                                                    |
|                                    Exe Time :28 January 2022   16:22:50                                                     |
+-----------------------------------------------------------------------------------------------------------------------------+
New Project


S T R E S S   R E S U L T S   F O R   G R O U P   N O.   1

0_L                                                    :
ELEMENT TYPE    5 NO.OF ELEMENTS. IN THIS GROUP   76
C U R R E N T   T I M E   I S      2.0000 SUBINCREMENT 00001/00001

 HARDENING 2D SOIL ELEMENT

 ****** TOTAL STRESS FORMULATION *****

  EL *   FORCE      DISPL-Y  VERTICAL-P  HORIZON.-P     MAX-V-P     MAX-H-P          STATE   STIFFNESS Z-LEVEL      PORE       E FAC-
TOR    UFACTOR       Peq          Su_a        Su_p        Cohe_a      Cohe_p     LAYER                                ZFO         QS
QSL          ZD          ZPL          Kz
 ------------------------------------------------------------------------------------------------------------------------------
-----------------------------------------------------------------------------------------------------------------------------
-----------------------------------------------
   1 D   0.000     -4.5879E-07   0.000       0.000       76.00       38.00          ACTIVE   0.000       339.0       0.000
1.000       1.000       0.000       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   2 D   1.732     -4.5559E-07   3.800       8.659       79.80       39.90          UL-RL  1.0605E+05   338.8       0.000
1.000       1.000       8.659       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   3 D   2.511     -4.5237E-07   7.600       12.56       83.60       41.80          UL-RL  1.0605E+05   338.6       0.000
1.000       1.000       12.56       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   4 D   3.147     -4.4911E-07   11.40       15.73       87.40       43.70          UL-RL  1.0605E+05   338.4       0.000
1.000       1.000       15.73       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   5 D   3.714     -4.4571E-07   15.20       18.57       91.20       45.60          UL-RL  1.0605E+05   338.2       0.000
1.000       1.000       18.57       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   6 D   4.239     -4.4209E-07   19.00       21.20       95.00       47.50          UL-RL  1.0605E+05   338.0       0.000
1.000       1.000       21.20       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   7 D   4.737     -4.3809E-07   22.80       23.69       98.80       49.40          UL-RL  1.0605E+05   337.8       0.000
1.000       1.000       23.69       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   8 D   5.215     -4.3354E-07   26.60       26.08       102.6       51.30          UL-RL  1.0605E+05   337.6       0.000
1.000       1.000       26.08       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   9 D   5.757      2.7246E-06   29.70       28.08       105.7       52.96          UL-RL  1.0605E+05   337.4       0.7029
1.000       1.000       28.78       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  10 D   6.373      2.6420E-06   31.49       29.15       107.5       53.85          UL-RL  1.0605E+05   337.2       2.708
1.000       1.000       31.86       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  11 D   6.986      2.5606E-06   33.29       30.22       109.3       54.74          UL-RL  1.0605E+05   337.0       4.714
1.000       1.000       34.93       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  12 D   7.598      2.4805E-06   35.08       31.27       111.1       55.64          UL-RL  1.0605E+05   336.8       6.719
1.000       1.000       37.99       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  13 D   8.208      2.4018E-06   36.88       32.31       112.9       56.53          UL-RL  1.0605E+05   336.6       8.725
1.000       1.000       41.04       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  14 D   8.816      2.3244E-06   38.67       33.35       114.7       57.42          UL-RL  1.0605E+05   336.4       10.73
1.000       1.000       44.08       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  15 D   9.422      2.2484E-06   40.47       34.38       116.4       58.31          UL-RL  1.0605E+05   336.2       12.74
1.000       1.000       47.11       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  16 D   10.03      2.1737E-06   42.26       35.40       118.2       59.21          UL-RL  1.0605E+05   336.0       14.74
1.000       1.000       50.14       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  17 D   10.63      2.1002E-06   44.06       36.41       120.0       60.10          UL-RL  1.0605E+05   335.8       16.75
1.000       1.000       53.16       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  18 D   11.23      2.0278E-06   45.85       37.42       121.8       60.99          UL-RL  1.0605E+05   335.6       18.75
1.000       1.000       56.17       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  19 D   11.84      1.9562E-06   47.65       38.42       123.6       61.88          UL-RL  1.0605E+05   335.4       20.76
1.000       1.000       59.18       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  20 D   12.44      1.8853E-06   49.44       39.41       125.4       62.78          UL-RL  1.0605E+05   335.2       22.76
1.000       1.000       62.18       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  21 D   14.01      8.0599E-08   51.23       45.29       127.2       71.54          UL-RL  4.8010E+05   335.0       24.77
1.000       1.000       70.06       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  22 D   14.66      8.3999E-08   53.23       46.54       129.2       72.65          UL-RL  4.8010E+05   334.8       26.78
```

1.000	1.000	73.31	0.000	0.000	10.00	10.00	Salt_1270_202756_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
23 D	15.31	8.7262E-08	55.22	47.77	131.2	73.77	UL-RL	4.8010E+05	334.6	28.78
1.000	1.000	76.55	0.000	0.000	10.00	10.00	Salt_1270_202756_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
24 D	15.96	9.0184E-08	57.22	49.00	133.2	74.89	UL-RL	4.8010E+05	334.4	30.79
1.000	1.000	79.79	0.000	0.000	10.00	10.00	Salt_1270_202756_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
25 D	16.60	9.2597E-08	59.21	50.23	135.2	76.00	UL-RL	4.8010E+05	334.2	32.79
1.000	1.000	83.02	0.000	0.000	10.00	10.00	Salt_1270_202756_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
26 D	17.25	9.4368E-08	61.21	51.45	137.1	77.12	UL-RL	4.8010E+05	334.0	34.80
1.000	1.000	86.25	0.000	0.000	10.00	10.00	Salt_1270_202756_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
27 D	17.89	9.5394E-08	63.20	52.66	139.1	78.24	UL-RL	4.8010E+05	333.8	36.80
1.000	1.000	89.47	0.000	0.000	10.00	10.00	Salt_1270_202756_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
28 D	18.54	9.5599E-08	65.20	53.87	141.1	79.35	UL-RL	4.8010E+05	333.6	38.81
1.000	1.000	92.68	0.000	0.000	10.00	10.00	Salt_1270_202756_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
29 D	19.18	9.4928E-08	67.19	55.08	143.1	80.47	UL-RL	4.8010E+05	333.4	40.81
1.000	1.000	95.90	0.000	0.000	10.00	10.00	Salt_1270_202756_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
30 D	19.82	9.3346E-08	69.19	56.29	145.1	81.59	UL-RL	4.8010E+05	333.2	42.82
1.000	1.000	99.11	0.000	0.000	10.00	10.00	Salt_1270_202756_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
31 D	20.46	9.0835E-08	71.18	57.49	147.1	82.70	UL-RL	4.8010E+05	333.0	44.83
1.000	1.000	102.3	0.000	0.000	10.00	10.00	Salt_1270_202756_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
32 D	21.10	8.7393E-08	73.18	58.68	149.1	83.82	UL-RL	4.8010E+05	332.8	46.83
1.000	1.000	105.5	0.000	0.000	10.00	10.00	Salt_1270_202756_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
33 D	21.74	8.3024E-08	75.17	59.88	151.1	84.93	UL-RL	4.8010E+05	332.6	48.84
1.000	1.000	108.7	0.000	0.000	10.00	10.00	Salt_1270_202756_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
34 D	22.38	7.7746E-08	77.17	61.07	153.1	86.05	UL-RL	4.8010E+05	332.4	50.84
1.000	1.000	111.9	0.000	0.000	10.00	10.00	Salt_1270_202756_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
35 D	23.02	7.1583E-08	79.16	62.25	155.1	87.17	UL-RL	4.8010E+05	332.2	52.85
1.000	1.000	115.1	0.000	0.000	10.00	10.00	Salt_1270_202756_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
36 D	23.66	6.4566E-08	81.15	63.44	157.1	88.28	UL-RL	4.8010E+05	332.0	54.85
1.000	1.000	118.3	0.000	0.000	10.00	10.00	Salt_1270_202756_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
37 D	24.30	5.6731E-08	83.15	64.62	159.0	89.40	UL-RL	4.8010E+05	331.8	56.86
1.000	1.000	121.5	0.000	0.000	10.00	10.00	Salt_1270_202756_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
38 D	24.93	4.8114E-08	85.14	65.80	161.0	90.52	UL-RL	4.8010E+05	331.6	58.87
1.000	1.000	124.7	0.000	0.000	10.00	10.00	Salt_1270_202756_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
39 D	25.57	3.8769E-08	87.14	66.98	163.0	91.63	UL-RL	4.8010E+05	331.4	60.87
1.000	1.000	127.8	0.000	0.000	10.00	10.00	Salt_1270_202756_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
40 D	26.21	2.8740E-08	89.13	68.15	165.0	92.75	UL-RL	4.8010E+05	331.2	62.88
1.000	1.000	131.0	0.000	0.000	10.00	10.00	Salt_1270_202756_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
41 D	25.31	8.6463E-08	91.13	61.69	167.0	83.51	UL-RL	2.4478E+05	331.0	64.88
1.000	1.000	126.6	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
42 D	25.97	8.6789E-08	93.63	62.99	169.5	84.76	UL-RL	2.4478E+05	330.8	66.88
1.000	1.000	129.9	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
43 D	26.64	8.6597E-08	96.13	64.30	172.0	86.01	UL-RL	2.4478E+05	330.6	68.88
1.000	1.000	133.2	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
44 D	27.30	8.5939E-08	98.63	65.60	174.5	87.26	UL-RL	2.4478E+05	330.4	70.88
1.000	1.000	136.5	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
45 D	27.96	8.4868E-08	101.1	66.90	177.0	88.51	UL-RL	2.4478E+05	330.2	72.88
1.000	1.000	139.8	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
46 D	28.62	8.3430E-08	103.6	68.20	179.5	89.76	UL-RL	2.4478E+05	330.0	74.88
1.000	1.000	143.1	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
47 D	29.28	8.1671E-08	106.1	69.49	182.0	91.01	UL-RL	2.4478E+05	329.8	76.89
1.000	1.000	146.4	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
48 D	29.94	7.9636E-08	108.6	70.79	184.5	92.26	UL-RL	2.4478E+05	329.6	78.89
1.000	1.000	149.7	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
49 D	30.59	7.7361E-08	111.1	72.08	187.0	93.51	UL-RL	2.4478E+05	329.4	80.89
1.000	1.000	153.0	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
50 D	31.25	7.4884E-08	113.6	73.37	189.5	94.76	UL-RL	2.4478E+05	329.2	82.89
1.000	1.000	156.3	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
51 D	31.91	7.2237E-08	116.1	74.66	192.0	96.01	UL-RL	2.4478E+05	329.0	84.89
1.000	1.000	159.6	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
52 D	32.57	6.9450E-08	118.6	75.95	194.5	97.26	UL-RL	2.4478E+05	328.8	86.89
1.000	1.000	162.8	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						

53 D	33.23	6.6549E-08	121.1	77.24	197.0	98.51	UL-RL	2.4478E+05	328.6	88.89
1.000	1.000	166.1	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
54 D	33.88	6.3558E-08	123.6	78.53	199.5	99.76	UL-RL	2.4478E+05	328.4	90.89
1.000	1.000	169.4	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
55 D	34.54	6.0496E-08	126.1	79.81	202.0	101.0	UL-RL	2.4478E+05	328.2	92.89
1.000	1.000	172.7	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
56 D	35.20	5.7384E-08	128.6	81.09	204.5	102.3	UL-RL	2.4478E+05	328.0	94.89
1.000	1.000	176.0	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
57 D	35.85	5.4237E-08	131.1	82.38	207.0	103.5	UL-RL	2.4478E+05	327.8	96.89
1.000	1.000	179.3	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
58 D	36.51	5.1067E-08	133.6	83.66	209.5	104.8	UL-RL	2.4478E+05	327.6	98.89
1.000	1.000	182.6	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
59 D	37.17	4.7886E-08	136.1	84.94	212.0	106.0	UL-RL	2.4478E+05	327.4	100.9
1.000	1.000	185.8	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
60 D	37.82	4.4702E-08	138.6	86.22	214.5	107.3	UL-RL	2.4478E+05	327.2	102.9
1.000	1.000	189.1	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
61 D	38.48	4.1522E-08	141.1	87.50	217.0	108.5	UL-RL	2.4478E+05	327.0	104.9
1.000	1.000	192.4	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
62 D	39.13	3.8352E-08	143.6	88.78	219.5	109.8	UL-RL	2.4478E+05	326.8	106.9
1.000	1.000	195.7	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
63 D	39.79	3.5195E-08	146.1	90.05	222.0	111.0	UL-RL	2.4478E+05	326.6	108.9
1.000	1.000	199.0	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
64 D	40.45	3.2054E-08	148.6	91.33	224.5	112.2	UL-RL	2.4478E+05	326.4	110.9
1.000	1.000	202.2	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
65 D	41.10	2.8931E-08	151.1	92.61	227.0	113.5	UL-RL	2.4478E+05	326.2	112.9
1.000	1.000	205.5	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
66 D	41.76	2.5826E-08	153.6	93.88	229.5	114.7	UL-RL	2.4478E+05	326.0	114.9
1.000	1.000	208.8	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
67 D	42.41	2.2738E-08	156.1	95.16	232.0	116.0	UL-RL	2.4478E+05	325.8	116.9
1.000	1.000	212.1	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
68 D	43.07	1.9666E-08	158.6	96.43	234.5	117.2	UL-RL	2.4478E+05	325.6	118.9
1.000	1.000	215.3	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
69 D	43.72	1.6608E-08	161.1	97.70	237.0	118.5	UL-RL	2.4478E+05	325.4	120.9
1.000	1.000	218.6	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
70 D	44.38	1.3562E-08	163.6	98.97	239.5	119.7	UL-RL	2.4478E+05	325.2	122.9
1.000	1.000	221.9	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
71 D	45.03	1.0524E-08	166.1	100.2	242.0	121.0	UL-RL	2.4478E+05	325.0	124.9
1.000	1.000	225.1	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
72 D	45.68	7.4958E-09	168.6	101.5	244.5	122.2	UL-RL	2.4478E+05	324.8	126.9
1.000	1.000	228.4	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
73 D	46.34	4.4724E-09	171.1	102.8	247.0	123.5	UL-RL	2.4478E+05	324.6	128.9
1.000	1.000	231.7	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
74 D	46.99	1.4523E-09	173.6	104.1	249.5	124.7	UL-RL	2.4478E+05	324.4	130.9
1.000	1.000	235.0	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
75 D	47.65	-1.5662E-09	176.1	105.3	252.0	126.0	UL-RL	2.4478E+05	324.2	132.9
1.000	1.000	238.2	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
76 D	24.15	-4.5706E-09	178.6	106.6	254.5	127.2	UL-RL	2.4478E+05	324.0	134.9
1.000	1.000	241.5	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						

```
+-----------------------------------------------------------------------------------------------------------------------------+
|                  PARATIEPLUS(TM)   NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*                    |
|                                                                                                                             |
|                                              ParatiePlus                                                                    |
|                                  Exe Time :28 January 2022   16:22:50                                                       |
+-----------------------------------------------------------------------------------------------------------------------------+
New Project


S T R E S S   R E S U L T S   F O R   G R O U P   N O.   2

0_R                                                    :
ELEMENT TYPE    5 NO.OF ELEMENTS. IN THIS GROUP   76
C U R R E N T   T I M E   I S      2.0000 SUBINCREMENT 00001/00001

 HARDENING 2D SOIL ELEMENT

 ****** TOTAL STRESS FORMULATION *****

  EL *   FORCE      DISPL-Y  VERTICAL-P  HORIZON.-P     MAX-V-P     MAX-H-P          STATE   STIFFNESS Z-LEVEL      PORE       E FAC-
TOR    UFACTOR       Peq          Su_a        Su_p        Cohe_a      Cohe_p     LAYER                              ZFO         QS
QSL          ZD          ZPL          Kz
 ------------------------------------------------------------------------------------------------------------------------------
-----------------------------------------------------------------------------------------------------------------------------
-----------------------------------------------
   1 D  3.1149E-03  4.5879E-07   0.000      3.1149E-02   76.00       38.00          UL-RL  6.7893E+04   339.0       0.000
1.000       1.000      3.1149E-02   0.000       0.000       10.00       10.00     Aate_364268_2050_L_0               0.0000
0.0000      0.0000       0.0000      0.0000      0.0000
   2 D   1.748      4.5559E-07   3.800       8.738       79.80       39.90          UL-RL  6.7893E+04   338.8       0.000
1.000       1.000       8.738       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0               0.0000
0.0000      0.0000       0.0000      0.0000      0.0000
   3 D   2.527      4.5237E-07   7.600       12.63       83.60       41.80          UL-RL  6.7893E+04   338.6       0.000
1.000       1.000       12.63       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0               0.0000
0.0000      0.0000       0.0000      0.0000      0.0000
   4 D   3.163      4.4911E-07   11.40       15.81       87.40       43.70          UL-RL  6.7893E+04   338.4       0.000
1.000       1.000       15.81       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0               0.0000
0.0000      0.0000       0.0000      0.0000      0.0000
   5 D   3.729      4.4571E-07   15.20       18.65       91.20       45.60          UL-RL  6.7893E+04   338.2       0.000
1.000       1.000       18.65       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0               0.0000
0.0000      0.0000       0.0000      0.0000      0.0000
   6 D   4.255      4.4209E-07   19.00       21.27       95.00       47.50          UL-RL  6.7893E+04   338.0       0.000
1.000       1.000       21.27       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0               0.0000
0.0000      0.0000       0.0000      0.0000      0.0000
   7 D   4.752      4.3809E-07   22.80       23.76       98.80       49.40          UL-RL  6.7893E+04   337.8       0.000
1.000       1.000       23.76       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0               0.0000
0.0000      0.0000       0.0000      0.0000      0.0000
   8 D   5.230      4.3354E-07   26.60       26.15       102.6       51.30          UL-RL  6.7893E+04   337.6       0.000
1.000       1.000       26.15       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0               0.0000
0.0000      0.0000       0.0000      0.0000      0.0000
   9 D   5.730     -2.7246E-06   29.31       27.56       105.0       52.52          UL-RL  6.7893E+04   337.4       1.091
1.000       1.000       28.65       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0               0.0000
0.0000      0.0000       0.0000      0.0000      0.0000
  10 D   6.348     -2.6420E-06   31.12       28.65       106.9       53.43          UL-RL  6.7893E+04   337.2       3.086
1.000       1.000       31.74       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0               0.0000
0.0000      0.0000       0.0000      0.0000      0.0000
  11 D   6.962     -2.5606E-06   32.92       29.73       108.7       54.33          UL-RL  6.7893E+04   337.0       5.080
1.000       1.000       34.81       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0               0.0000
0.0000      0.0000       0.0000      0.0000      0.0000
  12 D   7.575     -2.4805E-06   34.73       30.80       110.5       55.24          UL-RL  6.7893E+04   336.8       7.075
1.000       1.000       37.88       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0               0.0000
0.0000      0.0000       0.0000      0.0000      0.0000
  13 D   8.186     -2.4018E-06   36.53       31.86       112.3       56.14          UL-RL  6.7893E+04   336.6       9.069
1.000       1.000       40.93       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0               0.0000
0.0000      0.0000       0.0000      0.0000      0.0000
  14 D   8.795     -2.3244E-06   38.34       32.91       114.1       57.05          UL-RL  6.7893E+04   336.4       11.06
1.000       1.000       43.98       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0               0.0000
0.0000      0.0000       0.0000      0.0000      0.0000
  15 D   9.403     -2.2484E-06   40.14       33.95       115.9       57.95          UL-RL  6.7893E+04   336.2       13.06
1.000       1.000       47.01       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0               0.0000
0.0000      0.0000       0.0000      0.0000      0.0000
  16 D   10.01     -2.1737E-06   41.95       34.99       117.7       58.86          UL-RL  6.7893E+04   336.0       15.05
1.000       1.000       50.04       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0               0.0000
0.0000      0.0000       0.0000      0.0000      0.0000
  17 D   10.61     -2.1002E-06   43.76       36.02       119.5       59.76          UL-RL  6.7893E+04   335.8       17.05
1.000       1.000       53.06       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0               0.0000
0.0000      0.0000       0.0000      0.0000      0.0000
  18 D   11.22     -2.0278E-06   45.56       37.04       121.3       60.67          UL-RL  6.7893E+04   335.6       19.04
1.000       1.000       56.08       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0               0.0000
0.0000      0.0000       0.0000      0.0000      0.0000
  19 D   11.82     -1.9562E-06   47.37       38.05       123.1       61.57          UL-RL  6.7893E+04   335.4       21.04
1.000       1.000       59.09       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0               0.0000
0.0000      0.0000       0.0000      0.0000      0.0000
  20 D   12.42     -1.8853E-06   49.17       39.06       124.9       62.47          UL-RL  6.7893E+04   335.2       23.03
1.000       1.000       62.10       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0               0.0000
0.0000      0.0000       0.0000      0.0000      0.0000
  21 D   14.03     -8.0599E-08   50.98       45.15       126.8       71.24          UL-RL  3.7492E+05   335.0       25.03
1.000       1.000       70.17       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0               0.0000
0.0000      0.0000       0.0000      0.0000      0.0000
  22 D   14.68     -8.3999E-08   52.98       46.39       128.8       72.37          UL-RL  3.7492E+05   334.8       27.02
```

```
1.000       1.000       73.41       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  23 D   15.33     -8.7262E-08   54.99       47.63       130.8       73.50          UL-RL  3.7492E+05   334.6       29.02
1.000       1.000       76.64       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  24 D   15.97     -9.0184E-08   56.99       48.86       132.8       74.63          UL-RL  3.7492E+05   334.4       31.01
1.000       1.000       79.87       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  25 D   16.62     -9.2597E-08   59.00       50.08       134.8       75.76          UL-RL  3.7492E+05   334.2       33.01
1.000       1.000       83.09       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  26 D   17.26     -9.4368E-08   61.01       51.31       136.8       76.88          UL-RL  3.7492E+05   334.0       35.00
1.000       1.000       86.31       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  27 D   17.90     -9.5394E-08   63.01       52.52       138.8       78.01          UL-RL  3.7492E+05   333.8       36.99
1.000       1.000       89.52       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  28 D   18.55     -9.5599E-08   65.02       53.74       140.8       79.14          UL-RL  3.7492E+05   333.6       38.99
1.000       1.000       92.73       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  29 D   19.19     -9.4928E-08   67.02       54.95       142.8       80.27          UL-RL  3.7492E+05   333.4       40.98
1.000       1.000       95.94       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  30 D   19.83     -9.3346E-08   69.03       56.16       144.8       81.40          UL-RL  3.7492E+05   333.2       42.98
1.000       1.000       99.14       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  31 D   20.47     -9.0835E-08   71.03       57.37       146.9       82.53          UL-RL  3.7492E+05   333.0       44.97
1.000       1.000       102.3       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  32 D   21.11     -8.7393E-08   73.04       58.57       148.9       83.66          UL-RL  3.7492E+05   332.8       46.97
1.000       1.000       105.5       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  33 D   21.75     -8.3024E-08   75.05       59.77       150.9       84.79          UL-RL  3.7492E+05   332.6       48.96
1.000       1.000       108.7       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  34 D   22.38     -7.7746E-08   77.05       60.97       152.9       85.92          UL-RL  3.7492E+05   332.4       50.96
1.000       1.000       111.9       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  35 D   23.02     -7.1583E-08   79.06       62.16       154.9       87.05          UL-RL  3.7492E+05   332.2       52.95
1.000       1.000       115.1       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  36 D   23.66     -6.4566E-08   81.06       63.36       156.9       88.18          UL-RL  3.7492E+05   332.0       54.95
1.000       1.000       118.3       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  37 D   24.30     -5.6731E-08   83.07       64.55       158.9       89.31          UL-RL  3.7492E+05   331.8       56.94
1.000       1.000       121.5       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  38 D   24.93     -4.8114E-08   85.07       65.74       160.9       90.44          UL-RL  3.7492E+05   331.6       58.94
1.000       1.000       124.7       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  39 D   25.57     -3.8769E-08   87.08       66.93       162.9       91.56          UL-RL  3.7492E+05   331.4       60.93
1.000       1.000       127.9       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  40 D   26.21     -2.8740E-08   89.08       68.11       164.9       92.69          UL-RL  3.7492E+05   331.2       62.93
1.000       1.000       131.0       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  41 D   25.31     -8.6463E-08   91.09       61.64       166.9       83.47          UL-RL  1.8384E+05   331.0       64.92
1.000       1.000       126.6       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  42 D   25.97     -8.6789E-08   93.59       62.95       169.4       84.72          UL-RL  1.8384E+05   330.8       66.92
1.000       1.000       129.9       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  43 D   26.63     -8.6597E-08   96.09       64.25       171.9       85.97          UL-RL  1.8384E+05   330.6       68.92
1.000       1.000       133.2       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  44 D   27.30     -8.5939E-08   98.59       65.56       174.4       87.22          UL-RL  1.8384E+05   330.4       70.92
1.000       1.000       136.5       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  45 D   27.96     -8.4868E-08   101.1       66.86       176.9       88.47          UL-RL  1.8384E+05   330.2       72.92
1.000       1.000       139.8       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  46 D   28.61     -8.3430E-08   103.6       68.16       179.5       89.73          UL-RL  1.8384E+05   330.0       74.92
1.000       1.000       143.1       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  47 D   29.27     -8.1671E-08   106.1       69.45       182.0       90.98          UL-RL  1.8384E+05   329.8       76.92
1.000       1.000       146.4       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  48 D   29.93     -7.9636E-08   108.6       70.75       184.5       92.23          UL-RL  1.8384E+05   329.6       78.92
1.000       1.000       149.7       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  49 D   30.59     -7.7361E-08   111.1       72.04       187.0       93.48          UL-RL  1.8384E+05   329.4       80.92
1.000       1.000       153.0       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  50 D   31.25     -7.4884E-08   113.6       73.34       189.5       94.73          UL-RL  1.8384E+05   329.2       82.92
1.000       1.000       156.3       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  51 D   31.91     -7.2237E-08   116.1       74.63       192.0       95.98          UL-RL  1.8384E+05   329.0       84.92
1.000       1.000       159.5       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  52 D   32.57     -6.9450E-08   118.6       75.92       194.5       97.23          UL-RL  1.8384E+05   328.8       86.92
1.000       1.000       162.8       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
```

53 D	33.22	-6.6549E-08	121.1	77.21	197.0	98.48	UL-RL	1.8384E+05	328.6	88.91
1.000	1.000	166.1	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
54 D	33.88	-6.3558E-08	123.6	78.49	199.5	99.73	UL-RL	1.8384E+05	328.4	90.91
1.000	1.000	169.4	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
55 D	34.54	-6.0496E-08	126.1	79.78	202.0	101.0	UL-RL	1.8384E+05	328.2	92.91
1.000	1.000	172.7	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
56 D	35.20	-5.7384E-08	128.6	81.07	204.5	102.2	UL-RL	1.8384E+05	328.0	94.91
1.000	1.000	176.0	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
57 D	35.85	-5.4237E-08	131.1	82.35	207.0	103.5	UL-RL	1.8384E+05	327.8	96.91
1.000	1.000	179.3	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
58 D	36.51	-5.1067E-08	133.6	83.63	209.5	104.7	UL-RL	1.8384E+05	327.6	98.91
1.000	1.000	182.5	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
59 D	37.17	-4.7886E-08	136.1	84.92	212.0	106.0	UL-RL	1.8384E+05	327.4	100.9
1.000	1.000	185.8	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
60 D	37.82	-4.4702E-08	138.6	86.20	214.5	107.2	UL-RL	1.8384E+05	327.2	102.9
1.000	1.000	189.1	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
61 D	38.48	-4.1522E-08	141.1	87.48	217.0	108.5	UL-RL	1.8384E+05	327.0	104.9
1.000	1.000	192.4	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
62 D	39.13	-3.8352E-08	143.6	88.76	219.5	109.7	UL-RL	1.8384E+05	326.8	106.9
1.000	1.000	195.7	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
63 D	39.79	-3.5195E-08	146.1	90.04	222.0	111.0	UL-RL	1.8384E+05	326.6	108.9
1.000	1.000	198.9	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
64 D	40.45	-3.2054E-08	148.6	91.31	224.5	112.2	UL-RL	1.8384E+05	326.4	110.9
1.000	1.000	202.2	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
65 D	41.10	-2.8931E-08	151.1	92.59	227.0	113.5	UL-RL	1.8384E+05	326.2	112.9
1.000	1.000	205.5	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
66 D	41.76	-2.5826E-08	153.6	93.87	229.5	114.7	UL-RL	1.8384E+05	326.0	114.9
1.000	1.000	208.8	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
67 D	42.41	-2.2738E-08	156.1	95.14	232.0	116.0	UL-RL	1.8384E+05	325.8	116.9
1.000	1.000	212.1	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
68 D	43.07	-1.9666E-08	158.6	96.42	234.5	117.2	UL-RL	1.8384E+05	325.6	118.9
1.000	1.000	215.3	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
69 D	43.72	-1.6608E-08	161.1	97.69	237.0	118.5	UL-RL	1.8384E+05	325.4	120.9
1.000	1.000	218.6	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
70 D	44.38	-1.3562E-08	163.6	98.97	239.5	119.7	UL-RL	1.8384E+05	325.2	122.9
1.000	1.000	221.9	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
71 D	45.03	-1.0524E-08	166.1	100.2	242.0	121.0	UL-RL	1.8384E+05	325.0	124.9
1.000	1.000	225.2	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
72 D	45.68	-7.4958E-09	168.6	101.5	244.5	122.2	UL-RL	1.8384E+05	324.8	126.9
1.000	1.000	228.4	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
73 D	46.34	-4.4724E-09	171.1	102.8	247.0	123.5	UL-RL	1.8384E+05	324.6	128.9
1.000	1.000	231.7	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
74 D	46.99	-1.4523E-09	173.6	104.1	249.5	124.7	UL-RL	1.8384E+05	324.4	130.9
1.000	1.000	235.0	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
75 D	47.65	1.5662E-09	176.1	105.3	252.0	126.0	UL-RL	1.8384E+05	324.2	132.9
1.000	1.000	238.2	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
76 D	24.15	4.5706E-09	178.6	106.6	254.5	127.2	UL-RL	1.8384E+05	324.0	134.9
1.000	1.000	241.5	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						

New Project

S T R E S S   R E S U L T S   F O R   G R O U P   N O.   3

Pali1500_253215   :
ELEMENT TYPE   2 NO.OF ELEMENTS. IN THIS GROUP   75
C U R R E N T   T I M E   I S   2.0000 SUBINCREMENT 00001/00001

 WALL2D ELEMENT

EL	TA	TB	MA	MB
1	-3.11486E-03	3.11486E-03	1.64313E-14	-6.22972E-04
2	-1.89641E-02	1.89641E-02	6.22972E-04	-4.41579E-03
3	-3.47015E-02	3.47015E-02	4.41579E-03	-1.13561E-02
4	-5.03253E-02	5.03253E-02	1.13561E-02	-2.14212E-02
5	-6.58310E-02	6.58310E-02	2.14212E-02	-3.45939E-02
6	-8.12105E-02	8.12105E-02	3.45939E-02	-5.08360E-02
7	-9.64509E-02	9.64509E-02	5.08360E-02	-7.01262E-02
8	-0.11153	0.11153	7.01262E-02	-9.24329E-02
9	-8.50802E-02	8.50802E-02	9.24329E-02	-0.10945
10	-5.99623E-02	5.99623E-02	0.10945	-0.12144
11	-3.60699E-02	3.60699E-02	0.12144	-0.12866
12	-1.32997E-02	1.32997E-02	0.12866	-0.13132
13	8.44483E-03	-8.44483E-03	0.13132	-0.12963
14	2.92534E-02	-2.92534E-02	0.12963	-0.12377
15	4.92098E-02	-4.92098E-02	0.12377	-0.11393
16	6.83903E-02	-6.83903E-02	0.11393	-0.10025
17	8.68630E-02	-8.68630E-02	0.10025	-8.28822E-02
18	0.10469	-0.10469	8.28822E-02	-6.19446E-02
19	0.12191	-0.12191	6.19446E-02	-3.75617E-02
20	0.13858	-0.13858	3.75617E-02	-9.84503E-03
21	0.11650	-0.11650	9.84503E-03	1.34673E-02
22	9.64532E-02	-9.64532E-02	-1.34673E-02	3.27579E-02
23	7.84239E-02	-7.84239E-02	-3.27579E-02	4.84427E-02
24	6.23700E-02	-6.23700E-02	-4.84427E-02	6.09167E-02
25	4.82159E-02	-4.82159E-02	-6.09167E-02	7.05599E-02
26	3.58614E-02	-3.58614E-02	-7.05599E-02	7.77321E-02
27	2.51878E-02	-2.51878E-02	-7.77321E-02	8.27697E-02
28	1.60620E-02	-1.60620E-02	-8.27697E-02	8.59821E-02
29	8.34066E-03	-8.34066E-03	-8.59821E-02	8.76511E-02
30	1.87432E-03	-1.87432E-03	-8.76511E-02	8.80259E-02
31	-3.49154E-03	3.49154E-03	-8.80259E-02	8.73276E-02
32	-7.91218E-03	7.91218E-03	-8.73276E-02	8.57452E-02
33	-1.15422E-02	1.15422E-02	-8.57452E-02	8.34368E-02
34	-1.45339E-02	1.45339E-02	-8.34368E-02	8.05300E-02
35	-1.70357E-02	1.70357E-02	-8.05300E-02	7.71228E-02
36	-1.91915E-02	1.91915E-02	-7.71228E-02	7.32845E-02
37	-2.11389E-02	2.11389E-02	-7.32845E-02	6.90546E-02
38	-2.30092E-02	2.30092E-02	-6.90546E-02	6.44528E-02
39	-2.49263E-02	2.49263E-02	-6.44528E-02	5.94675E-02
40	-2.70057E-02	2.70057E-02	-5.94675E-02	5.40664E-02
41	-2.62347E-02	2.62347E-02	-5.40664E-02	4.88195E-02
42	-2.52472E-02	2.52472E-02	-4.88195E-02	4.37700E-02
43	-2.40874E-02	2.40874E-02	-4.37700E-02	3.89525E-02
44	-2.27950E-02	2.27950E-02	-3.89525E-02	3.43935E-02
45	-2.14051E-02	2.14051E-02	-3.43935E-02	3.01125E-02
46	-1.99490E-02	1.99490E-02	-3.01125E-02	2.61207E-02
47	-1.84540E-02	1.84540E-02	-2.61207E-02	2.24299E-02
48	-1.69438E-02	1.69438E-02	-2.24299E-02	1.90411E-02
49	-1.54388E-02	1.54388E-02	-1.90411E-02	1.59534E-02
50	-1.39562E-02	1.39562E-02	-1.59534E-02	1.31621E-02
51	-1.25105E-02	1.25105E-02	-1.31621E-02	1.06600E-02
52	-1.11138E-02	1.11138E-02	-1.06600E-02	8.43730E-03
53	-9.77565E-03	9.77565E-03	-8.43730E-03	6.48217E-03
54	-8.50386E-03	8.50386E-03	-6.48217E-03	4.78054E-03
55	-7.30435E-03	7.30435E-03	-4.78054E-03	3.31967E-03
56	-6.18145E-03	6.18145E-03	-3.31967E-03	2.08338E-03
57	-5.13824E-03	5.13824E-03	-2.08338E-03	1.05574E-03
58	-4.17663E-03	4.17663E-03	-1.05574E-03	2.20409E-04
59	-3.29764E-03	3.29764E-03	-2.20409E-04	-4.39119E-04
60	-2.50150E-03	2.50150E-03	4.39119E-04	-9.39419E-04
61	-1.78786E-03	1.78786E-03	9.39419E-04	-1.29699E-03
62	-1.15592E-03	1.15592E-03	1.29699E-03	-1.52829E-03
63	-6.04582E-04	6.04582E-04	1.52829E-03	-1.64921E-03
64	-1.32463E-04	1.32463E-04	1.64921E-03	-1.67570E-03
65	2.61889E-04	-2.61889E-04	1.67570E-03	-1.62332E-03
66	5.79947E-04	-5.79947E-04	1.62332E-03	-1.50733E-03
67	8.23142E-04	-8.23142E-04	1.50733E-03	-1.34270E-03
68	9.92795E-04	-9.92795E-04	1.34270E-03	-1.14415E-03
69	1.09008E-03	-1.09008E-03	1.14415E-03	-9.26129E-04
70	1.11600E-03	-1.11600E-03	9.26129E-04	-7.02818E-04

```
   71 1.07130E-03-1.07130E-03 7.02818E-04-4.88558E-04
   72 9.56625E-04-9.56625E-04 4.88558E-04-2.97233E-04
   73 7.72372E-04-7.72372E-04 2.97233E-04-1.42759E-04
   74 5.18769E-04-5.18769E-04 1.42759E-04-3.90049E-05
   75 1.95906E-04-1.95906E-04 3.90049E-05 5.55112E-17

ITER     0 RNORM = 0.000     RMNORM= 0.000
           RINORM=0.6389E+05 RIMNOR=0.5181
           RENORM= 7856.     REMNOR=0.1559E-24 RATIO =0.3507     TOLER =0.1000E-03  NOT CONVERGED
           RFMAX = 42.19     RMMAX =0.1313
           RTSMAL=0.1000E-03 RMSMAL=0.1000E-05
           RDT   =0.6389E+05 RDR   =0.5181
           RATIOT=0.3507     RATIOR= 0.000
           MAX UN= 17.37     IEQ=    61 NODE     31 DOF   1  Y-DISPL.F
           MIN UN=-.1306E-12 IEQ=    32 NODE     16 DOF   2   X-ROT. F
           NO. OF CONTACT CONSTRAINT VIOLATIONS     0


ITER     2 RNORM = 0.000     RMNORM= 0.000
           RINORM=0.6389E+05 RIMNOR=0.5181
           RENORM= 1015.     REMNOR=0.6228E-18 RATIO =0.1260     TOLER =0.1000E-03  NOT CONVERGED
           RFMAX = 42.19     RMMAX =0.1313
           RTSMAL=0.1000E-03 RMSMAL=0.1000E-05
           RDT   =0.6389E+05 RDR   =0.5181
           RATIOT=0.1260     RATIOR= 0.000
           MAX UN= 10.20     IEQ=    41 NODE     21 DOF   1  Y-DISPL.F
           MIN UN=-.2805E-08 IEQ=    25 NODE     13 DOF   1  Y-DISPL.F
           NO. OF CONTACT CONSTRAINT VIOLATIONS     0


ITER     3 RNORM = 0.000     RMNORM= 0.000
           RINORM=0.6389E+05 RIMNOR=0.5181
           RENORM= 269.5     REMNOR=0.7001E-18 RATIO =0.6495E-01 TOLER =0.1000E-03  NOT CONVERGED
           RFMAX = 42.19     RMMAX =0.1313
           RTSMAL=0.1000E-03 RMSMAL=0.1000E-05
           RDT   =0.6389E+05 RDR   =0.5181
           RATIOT=0.6495E-01 RATIOR= 0.000
           MAX UN= 7.721     IEQ=    67 NODE     34 DOF   1  Y-DISPL.F
           MIN UN=-.4350E-08 IEQ=    49 NODE     25 DOF   1  Y-DISPL.F
           NO. OF CONTACT CONSTRAINT VIOLATIONS     0


ITER     4 RNORM = 0.000     RMNORM= 0.000
           RINORM=0.6389E+05 RIMNOR=0.5181
           RENORM= 24.37     REMNOR=0.3118E-17 RATIO =0.1953E-01 TOLER =0.1000E-03  NOT CONVERGED
           RFMAX = 42.19     RMMAX =0.1313
           RTSMAL=0.1000E-03 RMSMAL=0.1000E-05
           RDT   =0.6389E+05 RDR   =0.5181
           RATIOT=0.1953E-01 RATIOR= 0.000
           MAX UN= 4.224     IEQ=    81 NODE     41 DOF   1  Y-DISPL.F
           MIN UN=-.1920E-07 IEQ=    23 NODE     12 DOF   1  Y-DISPL.F
           NO. OF CONTACT CONSTRAINT VIOLATIONS     0


ITER     5 RNORM = 0.000     RMNORM= 0.000
           RINORM=0.6389E+05 RIMNOR=0.5181
           RENORM=0.4532E-01 REMNOR=0.9019E-18 RATIO =0.8423E-03 TOLER =0.1000E-03  NOT CONVERGED
           RFMAX = 42.19     RMMAX =0.1313
           RTSMAL=0.1000E-03 RMSMAL=0.1000E-05
           RDT   =0.6389E+05 RDR   =0.5181
           RATIOT=0.8423E-03 RATIOR= 0.000
           MAX UN=0.2129     IEQ=    87 NODE     44 DOF   1  Y-DISPL.F
           MIN UN=-.5408E-08 IEQ=    39 NODE     20 DOF   1  Y-DISPL.F
           NO. OF CONTACT CONSTRAINT VIOLATIONS     0


ITER     6 RNORM = 0.000     RMNORM= 0.000
           RINORM=0.6389E+05 RIMNOR=0.5181
           RENORM=0.2961E-15 REMNOR=0.8831E-18 RATIO =0.6807E-10 TOLER =0.1000E-03      CONVERGED !
           RFMAX = 42.19     RMMAX =0.1313
           RTSMAL=0.1000E-03 RMSMAL=0.1000E-05
           RDT   =0.6389E+05 RDR   =0.5181
           RATIOT=0.6807E-10 RATIOR= 0.000
           MAX UN=0.7551E-08 IEQ=     7 NODE      4 DOF   1  Y-DISPL.F
           MIN UN=-.6264E-08 IEQ=    37 NODE     19 DOF   1  Y-DISPL.F
           NO. OF CONTACT CONSTRAINT VIOLATIONS     0
```

```
+-----------------------------------------------------------------------------------------------------------------------+
|                  PARATIEPLUS(TM)   NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*             |
|                                                                                                                       |
|                                                ParatiePlus                                                            |
|                                Exe Time :28 January 2022   16:22:50                                                   |
+-----------------------------------------------------------------------------------------------------------------------+
New Project
SOLUTION REACHED USING     6 ITERATIONS ON   80

P R I N T   O U T   F O R   T I M E   S T E P   3     ( AT TIME   3.000     ) SUBINCREMENT 00001/00001

PRINT OUT OF ACTIVE COMPONENTS (FIXED NODES ARE NOT PRINTED OUT)

          Y-DISPL.F        X-ROT. F
            02               04
    1   6.3345109E-03  -6.3304908E-04
    2   6.2079010E-03  -6.3304908E-04
    3   6.0812912E-03  -6.3304908E-04
    4   5.9546814E-03  -6.3304908E-04
    5   5.8280716E-03  -6.3304908E-04
    6   5.7013985E-03  -6.3304908E-04
    7   5.5747887E-03  -6.3304908E-04
    8   5.4481789E-03  -6.3304908E-04
    9   5.3184162E-03  -6.3304908E-04
   10   5.1918952E-03  -6.3304873E-04
   11   5.0653745E-03  -6.3304633E-04
   12   4.9388547E-03  -6.3303802E-04
   13   4.8123378E-03  -6.3301676E-04
   14   4.6857640E-03  -6.3297153E-04
   15   4.5592661E-03  -6.3288744E-04
   16   4.4327905E-03  -6.3274559E-04
   17   4.3063509E-03  -6.3252316E-04
   18   4.1799660E-03  -6.3219336E-04
   19   4.0536604E-03  -6.3172545E-04
   20   3.9274650E-03  -6.3108475E-04
   21   3.8031524E-03  -6.3023264E-04
   22   3.6771645E-03  -6.2911718E-04
   23   3.5514943E-03  -6.2767486E-04
   24   3.4261511E-03  -6.2583542E-04
   25   3.3012217E-03  -6.2352387E-04
   26   3.1768084E-03  -6.2066006E-04
   27   3.0530302E-03  -6.1715862E-04
   28   2.9300235E-03  -6.1292903E-04
   29   2.8079435E-03  -6.0787558E-04
   30   2.6869048E-03  -6.0189412E-04
   31   2.5672239E-03  -5.9488454E-04
   32   2.4490545E-03  -5.8677203E-04
   33   2.3326202E-03  -5.7753301E-04
   34   2.2181465E-03  -5.6716763E-04
   35   2.1058569E-03  -5.5569597E-04
   36   1.9959697E-03  -5.4315022E-04
   37   1.8886958E-03  -5.2957069E-04
   38   1.7841857E-03  -5.1499825E-04
   39   1.6827355E-03  -4.9950395E-04
   40   1.5844717E-03  -4.8314536E-04
   41   1.4894918E-03  -4.6599517E-04
   42   1.3980683E-03  -4.4817663E-04
   43   1.3102612E-03  -4.2985983E-04
   44   1.2261531E-03  -4.1121557E-04
   45   1.1457924E-03  -3.9241406E-04
   46   1.0691941E-03  -3.7361739E-04
   47   9.9630674E-04  -3.5496317E-04
   48   9.2715949E-04  -3.3660132E-04
   49   8.6164649E-04  -3.1863892E-04
   50   7.9967738E-04  -3.0117834E-04
   51   7.4114267E-04  -2.8430863E-04
   52   6.8591634E-04  -2.6810626E-04
   53   6.3385828E-04  -2.5263585E-04
   54   5.8481655E-04  -2.3795083E-04
   55   5.3860723E-04  -2.2408740E-04
   56   4.9510729E-04  -2.1109248E-04
   57   4.5411814E-04  -1.9898268E-04
   58   4.1546111E-04  -1.8777304E-04
   59   3.7895536E-04  -1.7747041E-04
   60   3.4441945E-04  -1.6807391E-04
   61   3.1167284E-04  -1.5957540E-04
   62   2.8053733E-04  -1.5195989E-04
   63   2.5082384E-04  -1.4520269E-04
   64   2.2239238E-04  -1.3928290E-04
   65   1.9506424E-04  -1.3416338E-04
   66   1.6868320E-04  -1.2980494E-04
   67   1.4310141E-04  -1.2616301E-04
   68   1.1818046E-04  -1.2318776E-04
   69   9.3792423E-05  -1.2082433E-04
   70   6.9820837E-05  -1.1901288E-04
   71   4.6149926E-05  -1.1768818E-04
   72   2.2712718E-05  -1.1678210E-04
   73  -5.7891257E-07  -1.1621965E-04
   74  -2.3785884E-05  -1.1592196E-04
```

```
75  -4.6952865E-05  -1.1580544E-04
76  -7.0003157E-05  -1.1578184E-04
```

```
+-----------------------------------------------------------------------------------------------------------------------+
|                  PARATIEPLUS(TM)   NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*             |
|                                                                                                                       |
|                                              ParatiePlus                                                              |
|                                    Exe Time :28 January 2022   16:22:50                                               |
+-----------------------------------------------------------------------------------------------------------------------+
New Project


S T R E S S   R E S U L T S   F O R   G R O U P   N O.   1

0_L                                                    :
ELEMENT TYPE    5 NO.OF ELEMENTS. IN THIS GROUP   76
C U R R E N T   T I M E   I S      3.0000 SUBINCREMENT 00001/00001

 HARDENING 2D SOIL ELEMENT

 ****** TOTAL STRESS FORMULATION *****

  EL *   FORCE      DISPL-Y  VERTICAL-P  HORIZON.-P     MAX-V-P     MAX-H-P          STATE   STIFFNESS Z-LEVEL      PORE       E FAC-
TOR    UFACTOR       Peq          Su_a        Su_p        Cohe_a      Cohe_p     LAYER                                ZFO         QS
QSL          ZD          ZPL          Kz
 ------------------------------------------------------------------------------------------------------------------------------------
------------------------------------------------------------------------------------------------------------------------------------
-----------------------------------------------
   1 D   0.000     -6.3345E-03   0.000       0.000       76.00       38.00          ACTIVE   0.000       339.0       0.000
1.000       1.000       0.000       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   2 D   0.000     -6.2079E-03   3.800       0.000       79.80       39.90          ACTIVE   0.000       338.8       0.000
1.000       1.000       0.000       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   3 D   0.000     -6.0813E-03   7.600       0.000       83.60       41.80          ACTIVE   0.000       338.6       0.000
1.000       1.000       0.000       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   4 D   0.000     -5.9547E-03   11.40       0.000       87.40       43.70          ACTIVE   0.000       338.4       0.000
1.000       1.000       0.000       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   5 D   0.000     -5.8281E-03   15.20       0.000       91.20       45.60          ACTIVE   0.000       338.2       0.000
1.000       1.000       0.000       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   6 D   0.000     -5.7014E-03   19.00       0.000       95.00       47.50          ACTIVE   0.000       338.0       0.000
1.000       1.000       0.000       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   7 D   0.000     -5.5748E-03   22.80       0.000       98.80       49.40          ACTIVE   0.000       337.8       0.000
1.000       1.000       0.000       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   8 D   0.000     -5.4482E-03   26.60       0.000       102.6       51.30          ACTIVE   0.000       337.6       0.000
1.000       1.000       0.000       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   9 D  6.5762E-02 -5.3184E-03   30.07       0.000       105.7       52.96          ACTIVE   0.000       337.4       0.3288
1.000       1.000      0.3288       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  10 D  0.2534      -5.1919E-03   32.93       0.000       107.5       53.85          ACTIVE   0.000       337.2       1.267
1.000       1.000       1.267       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  11 D  0.4765      -5.0654E-03   35.80      0.1776       109.3       54.74          ACTIVE   0.000       337.0       2.205
1.000       1.000       2.383       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  12 D  0.8485      -4.9389E-03   38.66       1.099       111.1       55.64          ACTIVE   0.000       336.8       3.143
1.000       1.000       4.242       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  13 D   1.220      -4.8123E-03   41.52       2.021       112.9       56.53          ACTIVE   0.000       336.6       4.081
1.000       1.000       6.102       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  14 D   1.593      -4.6858E-03   44.38       2.943       114.7       57.42          ACTIVE   0.000       336.4       5.020
1.000       1.000       7.963       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  15 D   1.964      -4.5593E-03   47.25       3.864       116.4       58.31          ACTIVE   0.000       336.2       5.958
1.000       1.000       9.822       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  16 D   2.336      -4.4328E-03   50.11       4.786       118.2       59.21          ACTIVE   0.000       336.0       6.896
1.000       1.000       11.68       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  17 D   2.708      -4.3064E-03   52.97       5.707       120.0       60.10          ACTIVE   0.000       335.8       7.834
1.000       1.000       13.54       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  18 D   3.080      -4.1800E-03   55.83       6.629       121.8       60.99          ACTIVE   0.000       335.6       8.772
1.000       1.000       15.40       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  19 D   3.452      -4.0537E-03   58.69       7.550       123.6       61.88          ACTIVE   0.000       335.4       9.710
1.000       1.000       17.26       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  20 D   3.824      -3.9275E-03   61.56       8.472       125.4       62.78          ACTIVE   0.000       335.2       10.65
1.000       1.000       19.12       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  21 D   5.840      -3.8032E-03   64.42       17.61       127.2       71.54          ACTIVE   0.000       335.0       11.59
1.000       1.000       29.20       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  22 D   6.329      -3.6772E-03   67.48       19.12       129.2       72.65          ACTIVE   0.000       334.8       12.53
```

1.000	1.000	31.64	0.000	0.000	10.00	10.00	Salt_1270_202756_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
23 D	6.817	-3.5515E-03	70.54	20.62	131.2	73.77	ACTIVE	0.000	334.6	13.46
1.000	1.000	34.09	0.000	0.000	10.00	10.00	Salt_1270_202756_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
24 D	7.305	-3.4262E-03	73.60	22.13	133.2	74.89	ACTIVE	0.000	334.4	14.40
1.000	1.000	36.53	0.000	0.000	10.00	10.00	Salt_1270_202756_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
25 D	7.794	-3.3012E-03	76.67	23.63	135.2	76.00	ACTIVE	0.000	334.2	15.34
1.000	1.000	38.97	0.000	0.000	10.00	10.00	Salt_1270_202756_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
26 D	8.282	-3.1768E-03	79.73	25.13	137.1	77.12	ACTIVE	0.000	334.0	16.28
1.000	1.000	41.41	0.000	0.000	10.00	10.00	Salt_1270_202756_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
27 D	8.770	-3.0530E-03	82.79	26.64	139.1	78.24	ACTIVE	0.000	333.8	17.22
1.000	1.000	43.85	0.000	0.000	10.00	10.00	Salt_1270_202756_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
28 D	9.259	-2.9300E-03	85.85	28.14	141.1	79.35	ACTIVE	0.000	333.6	18.15
1.000	1.000	46.29	0.000	0.000	10.00	10.00	Salt_1270_202756_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
29 D	9.747	-2.8079E-03	88.91	29.64	143.1	80.47	ACTIVE	0.000	333.4	19.09
1.000	1.000	48.73	0.000	0.000	10.00	10.00	Salt_1270_202756_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
30 D	10.24	-2.6869E-03	91.98	31.15	145.1	81.59	ACTIVE	0.000	333.2	20.03
1.000	1.000	51.18	0.000	0.000	10.00	10.00	Salt_1270_202756_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
31 D	10.72	-2.5672E-03	95.04	32.65	147.1	82.70	ACTIVE	0.000	333.0	20.97
1.000	1.000	53.62	0.000	0.000	10.00	10.00	Salt_1270_202756_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
32 D	11.21	-2.4491E-03	98.10	34.15	149.1	83.82	ACTIVE	0.000	332.8	21.91
1.000	1.000	56.06	0.000	0.000	10.00	10.00	Salt_1270_202756_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
33 D	11.70	-2.3326E-03	101.2	35.66	151.1	84.93	ACTIVE	0.000	332.6	22.85
1.000	1.000	58.50	0.000	0.000	10.00	10.00	Salt_1270_202756_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
34 D	12.19	-2.2181E-03	104.2	37.16	153.1	86.05	ACTIVE	0.000	332.4	23.78
1.000	1.000	60.94	0.000	0.000	10.00	10.00	Salt_1270_202756_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
35 D	12.68	-2.1059E-03	107.3	38.66	155.1	87.17	ACTIVE	0.000	332.2	24.72
1.000	1.000	63.38	0.000	0.000	10.00	10.00	Salt_1270_202756_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
36 D	13.17	-1.9960E-03	110.3	40.17	157.1	88.28	ACTIVE	0.000	332.0	25.66
1.000	1.000	65.83	0.000	0.000	10.00	10.00	Salt_1270_202756_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
37 D	13.65	-1.8887E-03	113.4	41.67	159.0	89.40	ACTIVE	0.000	331.8	26.60
1.000	1.000	68.27	0.000	0.000	10.00	10.00	Salt_1270_202756_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
38 D	14.14	-1.7842E-03	116.5	43.17	161.0	90.52	ACTIVE	0.000	331.6	27.54
1.000	1.000	70.71	0.000	0.000	10.00	10.00	Salt_1270_202756_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
39 D	14.63	-1.6827E-03	119.5	44.68	163.0	91.63	ACTIVE	0.000	331.4	28.47
1.000	1.000	73.15	0.000	0.000	10.00	10.00	Salt_1270_202756_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
40 D	15.12	-1.5845E-03	122.6	46.18	165.0	92.75	ACTIVE	0.000	331.2	29.41
1.000	1.000	75.59	0.000	0.000	10.00	10.00	Salt_1270_202756_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
41 D	6.071	-1.4895E-03	125.7	0.000	167.0	83.51	ACTIVE	0.000	331.0	30.35
1.000	1.000	30.35	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
42 D	6.449	-1.3981E-03	128.3	0.000	169.5	84.76	ACTIVE	0.000	330.8	32.25
1.000	1.000	32.25	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
43 D	6.828	-1.3103E-03	130.9	0.000	172.0	86.01	ACTIVE	0.000	330.6	34.14
1.000	1.000	34.14	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
44 D	7.462	-1.2262E-03	133.5	1.274	174.5	87.26	UL-RL	6.1194E+04	330.4	36.03
1.000	1.000	37.31	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
45 D	9.082	-1.1458E-03	136.1	7.483	177.0	88.51	UL-RL	6.1194E+04	330.2	37.93
1.000	1.000	45.41	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
46 D	10.66	-1.0692E-03	138.7	13.46	179.5	89.76	UL-RL	6.1194E+04	330.0	39.82
1.000	1.000	53.28	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
47 D	12.19	-9.9631E-04	141.3	19.21	182.0	91.01	UL-RL	6.1194E+04	329.8	41.72
1.000	1.000	60.93	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
48 D	13.67	-9.2716E-04	143.9	24.73	184.5	92.26	UL-RL	6.1194E+04	329.6	43.61
1.000	1.000	68.34	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
49 D	15.11	-8.6165E-04	146.5	30.03	187.0	93.51	UL-RL	6.1194E+04	329.4	45.50
1.000	1.000	75.54	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
50 D	16.50	-7.9968E-04	149.1	35.11	189.5	94.76	UL-RL	6.1194E+04	329.2	47.40
1.000	1.000	82.51	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
51 D	17.86	-7.4114E-04	151.7	39.98	192.0	96.01	UL-RL	6.1194E+04	329.0	49.29
1.000	1.000	89.28	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
52 D	19.17	-6.8592E-04	154.3	44.65	194.5	97.26	UL-RL	6.1194E+04	328.8	51.19
1.000	1.000	95.84	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						

53 D	20.44	-6.3386E-04	156.9	49.13	197.0	98.51	UL-RL	6.1194E+04	328.6	53.08	
1.000	1.000	102.2	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
54 D	21.68	-5.8482E-04	159.5	53.41	199.5	99.76	UL-RL	6.1194E+04	328.4	54.97	
1.000	1.000	108.4	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
55 D	22.88	-5.3861E-04	162.1	57.53	202.0	101.0	UL-RL	6.1194E+04	328.2	56.87	
1.000	1.000	114.4	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
56 D	24.05	-4.9511E-04	164.8	61.48	204.5	102.3	UL-RL	6.1194E+04	328.0	58.76	
1.000	1.000	120.2	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
57 D	25.19	-4.5412E-04	167.4	65.27	207.0	103.5	UL-RL	6.1194E+04	327.8	60.66	
1.000	1.000	125.9	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
58 D	26.29	-4.1546E-04	170.0	68.92	209.5	104.8	UL-RL	6.1194E+04	327.6	62.55	
1.000	1.000	131.5	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
59 D	27.38	-3.7896E-04	172.6	72.44	212.0	106.0	UL-RL	6.1194E+04	327.4	64.44	
1.000	1.000	136.9	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
60 D	28.44	-3.4442E-04	175.2	75.84	214.5	107.3	UL-RL	6.1194E+04	327.2	66.34	
1.000	1.000	142.2	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
61 D	29.47	-3.1167E-04	177.8	79.13	217.0	108.5	UL-RL	6.1194E+04	327.0	68.23	
1.000	1.000	147.4	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
62 D	30.49	-2.8054E-04	180.4	82.32	219.5	109.8	UL-RL	6.1194E+04	326.8	70.12	
1.000	1.000	152.4	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
63 D	31.49	-2.5082E-04	183.0	85.43	222.0	111.0	UL-RL	6.1194E+04	326.6	72.02	
1.000	1.000	157.4	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
64 D	32.47	-2.2239E-04	185.6	88.45	224.5	112.2	UL-RL	6.1194E+04	326.4	73.91	
1.000	1.000	162.4	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
65 D	33.44	-1.9506E-04	188.2	91.41	227.0	113.5	UL-RL	6.1194E+04	326.2	75.81	
1.000	1.000	167.2	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
66 D	34.40	-1.6868E-04	190.8	94.31	229.5	114.7	UL-RL	6.1194E+04	326.0	77.70	
1.000	1.000	172.0	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
67 D	35.35	-1.4310E-04	193.4	97.16	232.0	116.0	UL-RL	6.1194E+04	325.8	79.59	
1.000	1.000	176.8	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
68 D	36.29	-1.1818E-04	196.0	99.97	234.5	117.2	UL-RL	6.1194E+04	325.6	81.49	
1.000	1.000	181.5	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
69 D	37.22	-9.3792E-05	198.6	102.7	237.0	118.5	UL-RL	6.1194E+04	325.4	83.38	
1.000	1.000	186.1	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
70 D	38.15	-6.9821E-05	201.2	105.5	239.5	119.7	UL-RL	6.1194E+04	325.2	85.28	
1.000	1.000	190.8	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
71 D	39.08	-4.6150E-05	203.8	108.2	242.0	121.0	UL-RL	6.1194E+04	325.0	87.17	
1.000	1.000	195.4	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
72 D	40.00	-2.2713E-05	206.5	110.9	244.5	122.2	UL-RL	6.1194E+04	324.8	89.06	
1.000	1.000	200.0	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
73 D	40.92	5.7891E-07	209.1	113.7	247.0	123.5	UL-RL	6.1194E+04	324.6	90.96	
1.000	1.000	204.6	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
74 D	41.84	2.3786E-05	211.7	116.4	249.5	124.7	UL-RL	6.1194E+04	324.4	92.85	
1.000	1.000	209.2	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
75 D	42.76	4.6953E-05	214.3	119.1	252.0	126.0	UL-RL	6.1194E+04	324.2	94.75	
1.000	1.000	213.8	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
76 D	21.84	7.0003E-05	216.9	121.7	254.5	127.2	UL-RL	6.1194E+04	324.0	96.63	
1.000	1.000	218.4	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							

New Project

S T R E S S R E S U L T S F O R G R O U P N O. 2

0_R :

ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 76

C U R R E N T T I M E I S 3.0000 SUBINCREMENT 00001/00001

HARDENING 2D SOIL ELEMENT

****** TOTAL STRESS FORMULATION *****

EL * TOR	FORCE UFACTOR	DISPL-Y Peq	VERTICAL-P Su_a	HORIZON.-P Su_p	MAX-V-P Cohe_a	MAX-H-P Cohe_p	STATE LAYER	STIFFNESS	Z-LEVEL ZFO	PORE	E FAC-QS
QSL	ZD	ZPL	Kz								
1	0.000	--	--	--	--	--	REMOVED	--	339.0	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
2	0.000	--	--	--	--	--	REMOVED	--	338.8	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
3	0.000	--	--	--	--	--	REMOVED	--	338.6	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
4	0.000	--	--	--	--	--	REMOVED	--	338.4	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
5	0.000	--	--	--	--	--	REMOVED	--	338.2	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
6	0.000	--	--	--	--	--	REMOVED	--	338.0	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
7	0.000	--	--	--	--	--	REMOVED	--	337.8	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
8	0.000	--	--	--	--	--	REMOVED	--	337.6	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
9	0.000	--	--	--	--	--	REMOVED	--	337.4	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
10	0.000	--	--	--	--	--	REMOVED	--	337.2	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
11	0.000	--	--	--	--	--	REMOVED	--	337.0	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
12	0.000	--	--	--	--	--	REMOVED	--	336.8	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
13	0.000	--	--	--	--	--	REMOVED	--	336.6	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
14	0.000	--	--	--	--	--	REMOVED	--	336.4	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
15	0.000	--	--	--	--	--	REMOVED	--	336.2	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
16	0.000	--	--	--	--	--	REMOVED	--	336.0	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
17	0.000	--	--	--	--	--	REMOVED	--	335.8	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
18	0.000	--	--	--	--	--	REMOVED	--	335.6	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
19	0.000	--	--	--	--	--	REMOVED	--	335.4	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
20	0.000	--	--	--	--	--	REMOVED	--	335.2	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
21	0.000	--	--	--	--	--	REMOVED	--	335.0	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
22	0.000	--	--	--	--	--	REMOVED	--	334.8	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
23	0.000	--	--	--	--	--	REMOVED	--	334.6	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
24	0.000	--	--	--	--	--	REMOVED	--	334.4	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
25	0.000	--	--	--	--	--	REMOVED	--	334.2	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
26	0.000	--	--	--	--	--	REMOVED	--	334.0	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
27	0.000	--	--	--	--	--	REMOVED	--	333.8	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
28	0.000	--	--	--	--	--	REMOVED	--	333.6	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
29	0.000	--	--	--	--	--	REMOVED	--	333.4	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
30	0.000	--	--	--	--	--	REMOVED	--	333.2	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
31 D	7.385	2.5672E-03	8.0000E-03	36.93	146.9	82.53	PASSIVE	0.000	333.0	0.000	
1.000	1.000	36.93	0.000	0.000	10.00	10.00	Salt_1270_202756_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
32 D	10.11	2.4491E-03	4.008	50.54	148.9	83.66	PASSIVE	0.000	332.8	0.000	

```
1.000       1.000       50.54       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  33 D   12.83       2.3326E-03   8.008       64.16       150.9       84.79        PASSIVE   0.000       332.6       0.000
1.000       1.000       64.16       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  34 D   14.84       2.2181E-03   10.52       72.71       152.9       85.92        PASSIVE   0.000       332.4       1.488
1.000       1.000       74.20       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  35 D   16.09       2.1059E-03   11.46       75.90       154.9       87.05        PASSIVE   0.000       332.2       4.550
1.000       1.000       80.45       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  36 D   17.34       1.9960E-03   12.40       79.10       156.9       88.18        PASSIVE   0.000       332.0       7.612
1.000       1.000       86.71       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  37 D   18.59       1.8887E-03   13.33       82.29       158.9       89.31        PASSIVE   0.000       331.8       10.67
1.000       1.000       92.96       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  38 D   19.84       1.7842E-03   14.27       85.48       160.9       90.44        PASSIVE   0.000       331.6       13.74
1.000       1.000       99.22       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  39 D   21.10       1.6827E-03   15.21       88.68       162.9       91.56        PASSIVE   0.000       331.4       16.80
1.000       1.000       105.5       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  40 D   22.35       1.5845E-03   16.15       91.87       164.9       92.69        PASSIVE   0.000       331.2       19.86
1.000       1.000       111.7       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  41 D   22.06       1.4895E-03   17.09       87.37       166.9       87.37          V-C  1.5320E+04   331.0       22.92
1.000       1.000       110.3       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  42 D   22.50       1.3981E-03   19.48       87.47       169.4       87.47          V-C  1.5320E+04   330.8       25.03
1.000       1.000       112.5       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  43 D   22.95       1.3103E-03   21.88       87.61       171.9       87.61          V-C  1.5320E+04   330.6       27.13
1.000       1.000       114.7       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  44 D   23.40       1.2262E-03   24.27       87.78       174.4       87.78          V-C  1.5320E+04   330.4       29.24
1.000       1.000       117.0       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  45 D   23.67       1.1458E-03   26.67       86.99       176.9       88.47          UL-RL  4.5960E+04   330.2       31.35
1.000       1.000       118.3       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  46 D   23.74       1.0692E-03   29.06       85.24       179.5       89.73          UL-RL  4.5960E+04   330.0       33.45
1.000       1.000       118.7       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  47 D   23.83       9.9631E-04   31.45       83.61       182.0       90.98          UL-RL  4.5960E+04   329.8       35.56
1.000       1.000       119.2       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  48 D   23.95       9.2716E-04   33.85       82.11       184.5       92.23          UL-RL  4.5960E+04   329.6       37.66
1.000       1.000       119.8       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  49 D   24.10       8.6165E-04   36.24       80.75       187.0       93.48          UL-RL  4.5960E+04   329.4       39.77
1.000       1.000       120.5       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  50 D   24.28       7.9968E-04   38.64       79.52       189.5       94.73          UL-RL  4.5960E+04   329.2       41.88
1.000       1.000       121.4       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  51 D   24.48       7.4114E-04   41.03       78.43       192.0       95.98          UL-RL  4.5960E+04   329.0       43.98
1.000       1.000       122.4       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  52 D   24.71       6.8592E-04   43.42       77.46       194.5       97.23          UL-RL  4.5960E+04   328.8       46.09
1.000       1.000       123.6       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  53 D   24.96       6.3386E-04   45.82       76.62       197.0       98.48          UL-RL  4.5960E+04   328.6       48.20
1.000       1.000       124.8       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  54 D   25.24       5.8482E-04   48.21       75.90       199.5       99.73          UL-RL  4.5960E+04   328.4       50.30
1.000       1.000       126.2       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  55 D   25.54       5.3861E-04   50.61       75.29       202.0       101.0          UL-RL  4.5960E+04   328.2       52.41
1.000       1.000       127.7       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  56 D   25.86       4.9511E-04   53.00       74.80       204.5       102.2          UL-RL  4.5960E+04   328.0       54.52
1.000       1.000       129.3       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  57 D   26.20       4.5412E-04   55.39       74.40       207.0       103.5          UL-RL  4.5960E+04   327.8       56.62
1.000       1.000       131.0       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  58 D   26.57       4.1546E-04   57.79       74.10       209.5       104.7          UL-RL  4.5960E+04   327.6       58.73
1.000       1.000       132.8       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  59 D   26.94       3.7896E-04   60.18       73.88       212.0       106.0          UL-RL  4.5960E+04   327.4       60.83
1.000       1.000       134.7       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  60 D   27.34       3.4442E-04   62.58       73.75       214.5       107.2          UL-RL  4.5960E+04   327.2       62.94
1.000       1.000       136.7       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  61 D   27.75       3.1167E-04   64.97       73.68       217.0       108.5          UL-RL  4.5960E+04   327.0       65.05
1.000       1.000       138.7       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  62 D   28.17       2.8054E-04   67.36       73.68       219.5       109.7          UL-RL  4.5960E+04   326.8       67.15
1.000       1.000       140.8       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
```

63 D	28.60	2.5082E-04	69.76	73.74	222.0	111.0	UL-RL	4.5960E+04	326.6	69.26
1.000	1.000	143.0	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
64 D	29.04	2.2239E-04	72.15	73.85	224.5	112.2	UL-RL	4.5960E+04	326.4	71.37
1.000	1.000	145.2	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
65 D	29.49	1.9506E-04	74.55	74.00	227.0	113.5	UL-RL	4.5960E+04	326.2	73.47
1.000	1.000	147.5	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
66 D	29.95	1.6868E-04	76.94	74.19	229.5	114.7	UL-RL	4.5960E+04	326.0	75.58
1.000	1.000	149.8	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
67 D	30.42	1.4310E-04	79.33	74.40	232.0	116.0	UL-RL	4.5960E+04	325.8	77.68
1.000	1.000	152.1	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
68 D	30.89	1.1818E-04	81.73	74.64	234.5	117.2	UL-RL	4.5960E+04	325.6	79.79
1.000	1.000	154.4	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
69 D	31.36	9.3792E-05	84.12	74.90	237.0	118.5	UL-RL	4.5960E+04	325.4	81.90
1.000	1.000	156.8	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
70 D	31.84	6.9821E-05	86.52	75.18	239.5	119.7	UL-RL	4.5960E+04	325.2	84.00
1.000	1.000	159.2	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
71 D	32.31	4.6150E-05	88.91	75.46	242.0	121.0	UL-RL	4.5960E+04	325.0	86.11
1.000	1.000	161.6	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
72 D	32.79	2.2713E-05	91.30	75.75	244.5	122.2	UL-RL	4.5960E+04	324.8	88.22
1.000	1.000	164.0	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
73 D	33.27	-5.7891E-07	93.70	76.03	247.0	123.5	UL-RL	4.5960E+04	324.6	90.32
1.000	1.000	166.4	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
74 D	33.75	-2.3786E-05	96.09	76.32	249.5	124.7	UL-RL	4.5960E+04	324.4	92.43
1.000	1.000	168.8	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
75 D	34.23	-4.6953E-05	98.49	76.61	252.0	126.0	UL-RL	4.5960E+04	324.2	94.53
1.000	1.000	171.1	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
76 D	17.35	-7.0003E-05	100.9	76.89	254.5	127.2	UL-RL	4.5960E+04	324.0	96.63
1.000	1.000	173.5	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						

New Project

S T R E S S   R E S U L T S   F O R   G R O U P   N O.   3

Pali1500_253215   :
ELEMENT TYPE   2 NO.OF ELEMENTS. IN THIS GROUP   75
C U R R E N T   T I M E   I S   3.0000 SUBINCREMENT 00001/00001

 WALL2D ELEMENT

EL	TA	TB	MA	MB
1	-1.19736E-09	1.19736E-09	-1.19282E-10	8.88471E-10
2	-1.53409E-09	1.53409E-09	-1.16178E-09	8.30162E-10
3	3.13212E-09	-3.13212E-09	-6.72778E-10	2.00906E-09
4	-4.41918E-09	4.41918E-09	-2.13807E-09	6.76506E-10
5	1.81842E-09	-1.81842E-09	-9.36781E-10	2.08595E-09
6	-8.26272E-11	8.26272E-11	-1.91563E-09	2.38201E-09
7	-4.74513E-10	4.74513E-10	-2.44132E-09	2.26580E-09
8	-1.46397E-09	1.46397E-09	-2.46500E-09	1.30305E-09
9	6.57623E-02	-6.57623E-02	-1.23531E-09	1.31525E-02
10	0.31915	-0.31915	-1.31525E-02	7.69823E-02
11	0.79568	-0.79568	-7.69823E-02	0.23612
12	1.6441	-1.6441	-0.23612	0.56494
13	2.8645	-2.8645	-0.56494	1.1381
14	4.4570	-4.4570	-1.1381	2.0295
15	6.4214	-6.4214	-2.0295	3.3138
16	8.7578	-8.7578	-3.3138	5.0654
17	11.466	-11.466	-5.0654	7.3586
18	14.546	-14.546	-7.3586	10.268
19	17.998	-17.998	-10.268	13.868
20	21.823	-21.823	-13.868	18.232
21	27.663	-27.663	-18.232	23.767
22	33.992	-33.992	-23.767	30.566
23	40.809	-40.809	-30.566	38.727
24	48.114	-48.114	-38.727	48.350
25	55.908	-55.908	-48.350	59.532
26	64.190	-64.190	-59.532	72.370
27	72.960	-72.960	-72.370	86.962
28	82.219	-82.219	-86.962	103.41
29	91.966	-91.966	-103.41	121.81
30	102.20	-102.20	-121.81	142.25
31	105.54	-105.54	-142.25	163.36
32	106.64	-106.64	-163.36	184.68
33	105.51	-105.51	-184.68	205.79
34	102.86	-102.86	-205.79	226.36
35	99.447	-99.447	-226.36	246.25
36	95.271	-95.271	-246.25	265.30
37	90.331	-90.331	-265.30	283.38
38	84.629	-84.629	-283.38	300.30
39	78.164	-78.164	-300.30	315.94
40	70.936	-70.936	-315.94	330.12
41	54.950	-54.950	-330.12	341.11
42	38.899	-38.899	-341.11	348.89
43	22.779	-22.779	-348.89	353.45
44	6.8380	-6.8380	-353.45	354.82
45	-7.7478	7.7478	-354.82	353.27
46	-20.829	20.829	-353.27	349.10
47	-32.475	32.475	-349.10	342.60
48	-42.761	42.761	-342.60	334.05
49	-51.758	51.758	-334.05	323.70
50	-59.535	59.535	-323.70	311.79
51	-66.162	66.162	-311.79	298.56
52	-71.704	71.704	-298.56	284.22
53	-76.227	76.227	-284.22	268.98
54	-79.790	79.790	-268.98	253.01
55	-82.451	82.451	-253.01	236.52
56	-84.265	84.265	-236.52	219.67
57	-85.284	85.284	-219.67	202.61
58	-85.554	85.554	-202.61	185.50
59	-85.120	85.120	-185.50	168.47
60	-84.021	84.021	-168.47	151.67
61	-82.294	82.294	-151.67	135.21
62	-79.971	79.971	-135.21	119.21
63	-77.082	77.082	-119.21	103.79
64	-73.651	73.651	-103.79	89.063
65	-69.702	69.702	-89.063	75.123
66	-65.253	65.253	-75.123	62.072
67	-60.320	60.320	-62.072	50.008
68	-54.916	54.916	-50.008	39.025
69	-49.051	49.051	-39.025	29.214
70	-42.733	42.733	-29.214	20.663

```
   71 -35.968      35.968     -20.663      13.470
   72 -28.759      28.759     -13.470      7.7180
   73 -21.108      21.108     -7.7180      3.4964
   74 -13.017      13.017     -3.4964     0.89302
   75 -4.4853      4.4853    -0.89302    -2.55257E-12

ITER     0 RNORM = 293.3     RMNORM= 0.000
           RINORM=0.5817E+06 RIMNOR=0.5006E+07
           RENORM= 347.0     REMNOR=0.8831E-18 RATIO =0.2442E-01 TOLER =0.1000E-03  NOT CONVERGED
           RFMAX = 106.6     RMMAX = 354.8
           RTSMAL=0.1000E-02 RMSMAL=0.1000E-02
           RDT   =0.5817E+06 RDR   =0.5006E+07
           RATIOT=0.2442E-01 RATIOR= 0.000
           MAX UN= 3.383     IEQ=    79 NODE     40 DOF   1  Y-DISPL.F
           MIN UN=-.1468E-08 IEQ=    85 NODE     43 DOF   1  Y-DISPL.F
           NO. OF CONTACT CONSTRAINT VIOLATIONS     0


ITER     2 RNORM = 293.3     RMNORM= 0.000
           RINORM=0.5817E+06 RIMNOR=0.5006E+07
           RENORM= 2250.     REMNOR=0.4481E-16 RATIO =0.6219E-01 TOLER =0.1000E-03  NOT CONVERGED
           RFMAX = 106.6     RMMAX = 354.8
           RTSMAL=0.1000E-02 RMSMAL=0.1000E-02
           RDT   =0.5817E+06 RDR   =0.5006E+07
           RATIOT=0.6219E-01 RATIOR= 0.000
           MAX UN= 25.45     IEQ=    89 NODE     45 DOF   1  Y-DISPL.F
           MIN UN=-5.288     IEQ=   149 NODE     75 DOF   1  Y-DISPL.F
           NO. OF CONTACT CONSTRAINT VIOLATIONS     0


ITER     3 RNORM = 293.3     RMNORM= 0.000
           RINORM=0.5817E+06 RIMNOR=0.5006E+07
           RENORM= 313.8     REMNOR=0.2757E-16 RATIO =0.2323E-01 TOLER =0.1000E-03  NOT CONVERGED
           RFMAX = 106.6     RMMAX = 354.8
           RTSMAL=0.1000E-02 RMSMAL=0.1000E-02
           RDT   =0.5817E+06 RDR   =0.5006E+07
           RATIOT=0.2323E-01 RATIOR= 0.000
           MAX UN= 10.98     IEQ=   103 NODE     52 DOF   1  Y-DISPL.F
           MIN UN=-.1535     IEQ=   129 NODE     65 DOF   1  Y-DISPL.F
           NO. OF CONTACT CONSTRAINT VIOLATIONS     0


ITER     4 RNORM = 293.3     RMNORM= 0.000
           RINORM=0.5817E+06 RIMNOR=0.5006E+07
           RENORM= 1.001     REMNOR=0.9913E-17 RATIO =0.1312E-02 TOLER =0.1000E-03  NOT CONVERGED
           RFMAX = 106.6     RMMAX = 354.8
           RTSMAL=0.1000E-02 RMSMAL=0.1000E-02
           RDT   =0.5817E+06 RDR   =0.5006E+07
           RATIOT=0.1312E-02 RATIOR= 0.000
           MAX UN=0.4266     IEQ=   115 NODE     58 DOF   1  Y-DISPL.F
           MIN UN=-.5562     IEQ=   129 NODE     65 DOF   1  Y-DISPL.F
           NO. OF CONTACT CONSTRAINT VIOLATIONS     0


ITER     5 RNORM = 293.3     RMNORM= 0.000
           RINORM=0.5817E+06 RIMNOR=0.5006E+07
           RENORM=0.2939E-14 REMNOR=0.9548E-17 RATIO =0.7108E-10 TOLER =0.1000E-03      CONVERGED !
           RFMAX = 106.6     RMMAX = 354.8
           RTSMAL=0.1000E-02 RMSMAL=0.1000E-02
           RDT   =0.5817E+06 RDR   =0.5006E+07
           RATIOT=0.7108E-10 RATIOR= 0.000
           MAX UN=0.2069E-07 IEQ=    15 NODE      8 DOF   1  Y-DISPL.F
           MIN UN=-.1135E-07 IEQ=    65 NODE     33 DOF   1  Y-DISPL.F
           NO. OF CONTACT CONSTRAINT VIOLATIONS     0
```

```
+-----------------------------------------------------------------------------------------------------------------------+
|                  PARATIEPLUS(TM)   NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*             |
|                                                                                                                       |
|                                                ParatiePlus                                                            |
|                                Exe Time :28 January 2022   16:22:50                                                   |
+-----------------------------------------------------------------------------------------------------------------------+
New Project
SOLUTION REACHED USING     5 ITERATIONS ON   80

P R I N T   O U T   F O R   T I M E   S T E P    4     ( AT TIME   4.000     ) SUBINCREMENT 00001/00001

PRINT OUT OF ACTIVE COMPONENTS (FIXED NODES ARE NOT PRINTED OUT)

          Y-DISPL.F        X-ROT. F
            02               04
    1   2.3371606E-02  -2.3057837E-03
    2   2.2910449E-02  -2.3057752E-03
    3   2.2449298E-02  -2.3057332E-03
    4   2.1988161E-02  -2.3056239E-03
    5   2.1527055E-02  -2.3054137E-03
    6   2.1065774E-02  -2.3050687E-03
    7   2.0604808E-02  -2.3045557E-03
    8   2.0143965E-02  -2.3038409E-03
    9   1.9680135E-02  -2.3028906E-03
   10   1.9219763E-02  -2.3016708E-03
   11   1.8759664E-02  -2.3001463E-03
   12   1.8299905E-02  -2.2982795E-03
   13   1.7840556E-02  -2.2960298E-03
   14   1.7381469E-02  -2.2933510E-03
   15   1.6923195E-02  -2.2901974E-03
   16   1.6465603E-02  -2.2865150E-03
   17   1.6008806E-02  -2.2822475E-03
   18   1.5552925E-02  -2.2773345E-03
   19   1.5098097E-02  -2.2717115E-03
   20   1.4644470E-02  -2.2653103E-03
   21   1.4193941E-02  -2.2580586E-03
   22   1.3742922E-02  -2.2498671E-03
   23   1.3293868E-02  -2.2406458E-03
   24   1.2846769E-02  -2.2302873E-03
   25   1.2401866E-02  -2.2186831E-03
   26   1.1959417E-02  -2.2057193E-03
   27   1.1519707E-02  -2.1912770E-03
   28   1.1083043E-02  -2.1752320E-03
   29   1.0649759E-02  -2.1574550E-03
   30   1.0220002E-02  -2.1378010E-03
   31   9.7945869E-03  -2.1161503E-03
   32   9.3737113E-03  -2.0924022E-03
   33   8.9577979E-03  -2.0665256E-03
   34   8.5472739E-03  -2.0385078E-03
   35   8.1425674E-03  -2.0083512E-03
   36   7.7441053E-03  -1.9760667E-03
   37   7.3523115E-03  -1.9416709E-03
   38   6.9674158E-03  -1.9051664E-03
   39   6.5902183E-03  -1.8666170E-03
   40   6.2209344E-03  -1.8260375E-03
   41   5.8598978E-03  -1.7834659E-03
   42   5.5076191E-03  -1.7390787E-03
   43   5.1643737E-03  -1.6931838E-03
   44   4.8304330E-03  -1.6460816E-03
   45   4.5060090E-03  -1.5980650E-03
   46   4.1912558E-03  -1.5494197E-03
   47   3.8861213E-03  -1.5003999E-03
   48   3.5909530E-03  -1.4513269E-03
   49   3.3055849E-03  -1.4024420E-03
   50   3.0299533E-03  -1.3540038E-03
   51   2.7639438E-03  -1.3062627E-03
   52   2.5073926E-03  -1.2594608E-03
   53   2.2600882E-03  -1.2138326E-03
   54   2.0217731E-03  -1.1696049E-03
   55   1.7920324E-03  -1.1269766E-03
   56   1.5707502E-03  -1.0862028E-03
   57   1.3574223E-03  -1.0474678E-03
   58   1.1516208E-03  -1.0109710E-03
   59   9.5287947E-04  -9.7689361E-04
   60   7.6069922E-04  -9.4538147E-04
   61   5.7455581E-04  -9.1653912E-04
   62   3.9390835E-04  -8.9042883E-04
   63   2.1812092E-04  -8.6706093E-04
   64   4.6819515E-05  -8.4644028E-04
   65  -1.2062680E-04  -8.2849727E-04
   66  -2.8474471E-04  -8.1313763E-04
   67  -4.4603889E-04  -8.0023734E-04
   68  -6.0498685E-04  -7.8964880E-04
   69  -7.6203424E-04  -7.8120121E-04
   70  -9.1759024E-04  -7.7470083E-04
   71  -1.0721001E-03  -7.6992991E-04
   72  -1.2257324E-03  -7.6665625E-04
   73  -1.3788381E-03  -7.6461908E-04
   74  -1.5316370E-03  -7.6353946E-04
```

```
75  -1.6842908E-03  -7.6311753E-04
76  -1.8362128E-03  -7.6303260E-04
```

```
+-----------------------------------------------------------------------------------------------------------------------+
|                  PARATIEPLUS(TM)   NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*             |
|                                                                                                                       |
|                                              ParatiePlus                                                              |
|                                  Exe Time :28 January 2022   16:22:50                                                 |
+-----------------------------------------------------------------------------------------------------------------------+
New Project


S T R E S S   R E S U L T S   F O R   G R O U P   N O.   1

0_L                                                    :
ELEMENT TYPE    5 NO.OF ELEMENTS. IN THIS GROUP   76
C U R R E N T   T I M E   I S      4.0000 SUBINCREMENT 00001/00001

 HARDENING 2D SOIL ELEMENT

 ****** TOTAL STRESS FORMULATION *****

  EL *   FORCE     DISPL-Y  VERTICAL-P  HORIZON.-P     MAX-V-P     MAX-H-P          STATE   STIFFNESS Z-LEVEL      PORE       E FAC-
TOR    UFACTOR       Peq          Su_a        Su_p        Cohe_a      Cohe_p     LAYER                                ZFO         QS
QSL          ZD          ZPL          Kz
 ------------------------------------------------------------------------------------------------------------------------------------
------------------------------------------------------------------------------------------------------------------------------------
-----------------------------------------------
   1 D   0.000     -2.3372E-02   0.000       0.000       76.00       38.00          ACTIVE   0.000       339.0       0.000
1.000       1.000       0.000       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   2 D   0.000     -2.2910E-02   3.800       0.000       79.80       39.90          ACTIVE   0.000       338.8       0.000
1.000       1.000       0.000       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   3 D   0.000     -2.2449E-02   7.600       0.000       83.60       41.80          ACTIVE   0.000       338.6       0.000
1.000       1.000       0.000       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   4 D   0.000     -2.1988E-02   11.40       0.000       87.40       43.70          ACTIVE   0.000       338.4       0.000
1.000       1.000       0.000       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   5 D   0.000     -2.1527E-02   15.20       0.000       91.20       45.60          ACTIVE   0.000       338.2       0.000
1.000       1.000       0.000       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   6 D   0.000     -2.1066E-02   19.00       0.000       95.00       47.50          ACTIVE   0.000       338.0       0.000
1.000       1.000       0.000       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   7 D   0.000     -2.0605E-02   22.80       0.000       98.80       49.40          ACTIVE   0.000       337.8       0.000
1.000       1.000       0.000       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   8 D   0.000     -2.0144E-02   26.60       0.000       102.6       51.30          ACTIVE   0.000       337.6       0.000
1.000       1.000       0.000       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   9 D  6.5762E-02 -1.9680E-02   30.07       0.000       105.7       52.96          ACTIVE   0.000       337.4       0.3288
1.000       1.000      0.3288       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  10 D  0.2534     -1.9220E-02   32.93       0.000       107.5       53.85          ACTIVE   0.000       337.2       1.267
1.000       1.000       1.267       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  11 D  0.4765     -1.8760E-02   35.80      0.1776       109.3       54.74          ACTIVE   0.000       337.0       2.205
1.000       1.000       2.383       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  12 D  0.8485     -1.8300E-02   38.66       1.099       111.1       55.64          ACTIVE   0.000       336.8       3.143
1.000       1.000       4.242       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  13 D   1.220     -1.7841E-02   41.52       2.021       112.9       56.53          ACTIVE   0.000       336.6       4.081
1.000       1.000       6.102       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  14 D   1.593     -1.7381E-02   44.38       2.943       114.7       57.42          ACTIVE   0.000       336.4       5.020
1.000       1.000       7.963       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  15 D   1.964     -1.6923E-02   47.25       3.864       116.4       58.31          ACTIVE   0.000       336.2       5.958
1.000       1.000       9.822       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  16 D   2.336     -1.6466E-02   50.11       4.786       118.2       59.21          ACTIVE   0.000       336.0       6.896
1.000       1.000       11.68       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  17 D   2.708     -1.6009E-02   52.97       5.707       120.0       60.10          ACTIVE   0.000       335.8       7.834
1.000       1.000       13.54       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  18 D   3.080     -1.5553E-02   55.83       6.629       121.8       60.99          ACTIVE   0.000       335.6       8.772
1.000       1.000       15.40       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  19 D   3.452     -1.5098E-02   58.69       7.550       123.6       61.88          ACTIVE   0.000       335.4       9.710
1.000       1.000       17.26       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  20 D   3.824     -1.4644E-02   61.56       8.472       125.4       62.78          ACTIVE   0.000       335.2       10.65
1.000       1.000       19.12       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  21 D   5.840     -1.4194E-02   64.42       17.61       127.2       71.54          ACTIVE   0.000       335.0       11.59
1.000       1.000       29.20       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  22 D   6.329     -1.3743E-02   67.48       19.12       129.2       72.65          ACTIVE   0.000       334.8       12.53
```

1.000	1.000	31.64	0.000	0.000	10.00	10.00	Salt_1270_202756_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
23 D	6.817	-1.3294E-02	70.54	20.62	131.2	73.77	ACTIVE	0.000	334.6	13.46	
1.000	1.000	34.09	0.000	0.000	10.00	10.00	Salt_1270_202756_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
24 D	7.305	-1.2847E-02	73.60	22.13	133.2	74.89	ACTIVE	0.000	334.4	14.40	
1.000	1.000	36.53	0.000	0.000	10.00	10.00	Salt_1270_202756_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
25 D	7.794	-1.2402E-02	76.67	23.63	135.2	76.00	ACTIVE	0.000	334.2	15.34	
1.000	1.000	38.97	0.000	0.000	10.00	10.00	Salt_1270_202756_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
26 D	8.282	-1.1959E-02	79.73	25.13	137.1	77.12	ACTIVE	0.000	334.0	16.28	
1.000	1.000	41.41	0.000	0.000	10.00	10.00	Salt_1270_202756_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
27 D	8.770	-1.1520E-02	82.79	26.64	139.1	78.24	ACTIVE	0.000	333.8	17.22	
1.000	1.000	43.85	0.000	0.000	10.00	10.00	Salt_1270_202756_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
28 D	9.259	-1.1083E-02	85.85	28.14	141.1	79.35	ACTIVE	0.000	333.6	18.15	
1.000	1.000	46.29	0.000	0.000	10.00	10.00	Salt_1270_202756_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
29 D	9.747	-1.0650E-02	88.91	29.64	143.1	80.47	ACTIVE	0.000	333.4	19.09	
1.000	1.000	48.73	0.000	0.000	10.00	10.00	Salt_1270_202756_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
30 D	10.24	-1.0220E-02	91.98	31.15	145.1	81.59	ACTIVE	0.000	333.2	20.03	
1.000	1.000	51.18	0.000	0.000	10.00	10.00	Salt_1270_202756_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
31 D	10.72	-9.7946E-03	95.04	32.65	147.1	82.70	ACTIVE	0.000	333.0	20.97	
1.000	1.000	53.62	0.000	0.000	10.00	10.00	Salt_1270_202756_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
32 D	11.21	-9.3737E-03	98.10	34.15	149.1	83.82	ACTIVE	0.000	332.8	21.91	
1.000	1.000	56.06	0.000	0.000	10.00	10.00	Salt_1270_202756_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
33 D	11.70	-8.9578E-03	101.2	35.66	151.1	84.93	ACTIVE	0.000	332.6	22.85	
1.000	1.000	58.50	0.000	0.000	10.00	10.00	Salt_1270_202756_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
34 D	12.19	-8.5473E-03	104.2	37.16	153.1	86.05	ACTIVE	0.000	332.4	23.78	
1.000	1.000	60.94	0.000	0.000	10.00	10.00	Salt_1270_202756_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
35 D	12.68	-8.1426E-03	107.3	38.66	155.1	87.17	ACTIVE	0.000	332.2	24.72	
1.000	1.000	63.38	0.000	0.000	10.00	10.00	Salt_1270_202756_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
36 D	13.17	-7.7441E-03	110.3	40.17	157.1	88.28	ACTIVE	0.000	332.0	25.66	
1.000	1.000	65.83	0.000	0.000	10.00	10.00	Salt_1270_202756_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
37 D	13.65	-7.3523E-03	113.4	41.67	159.0	89.40	ACTIVE	0.000	331.8	26.60	
1.000	1.000	68.27	0.000	0.000	10.00	10.00	Salt_1270_202756_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
38 D	14.14	-6.9674E-03	116.5	43.17	161.0	90.52	ACTIVE	0.000	331.6	27.54	
1.000	1.000	70.71	0.000	0.000	10.00	10.00	Salt_1270_202756_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
39 D	14.63	-6.5902E-03	119.5	44.68	163.0	91.63	ACTIVE	0.000	331.4	28.47	
1.000	1.000	73.15	0.000	0.000	10.00	10.00	Salt_1270_202756_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
40 D	15.12	-6.2209E-03	122.6	46.18	165.0	92.75	ACTIVE	0.000	331.2	29.41	
1.000	1.000	75.59	0.000	0.000	10.00	10.00	Salt_1270_202756_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
41 D	6.071	-5.8599E-03	125.7	0.000	167.0	83.51	ACTIVE	0.000	331.0	30.35	
1.000	1.000	30.35	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
42 D	6.449	-5.5076E-03	128.3	0.000	169.5	84.76	ACTIVE	0.000	330.8	32.25	
1.000	1.000	32.25	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
43 D	6.828	-5.1644E-03	130.9	0.000	172.0	86.01	ACTIVE	0.000	330.6	34.14	
1.000	1.000	34.14	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
44 D	7.207	-4.8304E-03	133.5	0.000	174.5	87.26	ACTIVE	0.000	330.4	36.03	
1.000	1.000	36.03	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
45 D	7.586	-4.5060E-03	136.1	0.000	177.0	88.51	ACTIVE	0.000	330.2	37.93	
1.000	1.000	37.93	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
46 D	7.964	-4.1913E-03	138.7	0.000	179.5	89.76	ACTIVE	0.000	330.0	39.82	
1.000	1.000	39.82	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
47 D	8.343	-3.8861E-03	141.3	0.000	182.0	91.01	ACTIVE	0.000	329.8	41.72	
1.000	1.000	41.72	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
48 D	8.722	-3.5910E-03	143.9	0.000	184.5	92.26	ACTIVE	0.000	329.6	43.61	
1.000	1.000	43.61	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
49 D	9.324	-3.3056E-03	146.5	1.117	187.0	93.51	ACTIVE	0.000	329.4	45.50	
1.000	1.000	46.62	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
50 D	9.954	-3.0300E-03	149.1	2.370	189.5	94.76	ACTIVE	0.000	329.2	47.40	
1.000	1.000	49.77	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
51 D	10.58	-2.7639E-03	151.7	3.624	192.0	96.01	ACTIVE	0.000	329.0	49.29	
1.000	1.000	52.92	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
52 D	11.21	-2.5074E-03	154.3	4.877	194.5	97.26	ACTIVE	0.000	328.8	51.19	
1.000	1.000	56.06	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							

53 D	11.84	-2.2601E-03	156.9	6.131	197.0	98.51	ACTIVE	0.000	328.6	53.08
1.000	1.000	59.21	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
54 D	12.47	-2.0218E-03	159.5	7.385	199.5	99.76	ACTIVE	0.000	328.4	54.97
1.000	1.000	62.36	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
55 D	13.10	-1.7920E-03	162.1	8.639	202.0	101.0	ACTIVE	0.000	328.2	56.87
1.000	1.000	65.51	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
56 D	13.73	-1.5708E-03	164.8	9.892	204.5	102.3	ACTIVE	0.000	328.0	58.76
1.000	1.000	68.65	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
57 D	14.36	-1.3574E-03	167.4	11.15	207.0	103.5	ACTIVE	0.000	327.8	60.66
1.000	1.000	71.80	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
58 D	17.29	-1.1516E-03	170.0	23.88	209.5	104.8	UL-RL	6.1194E+04	327.6	62.55
1.000	1.000	86.43	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
59 D	20.35	-9.5288E-04	172.6	37.32	212.0	106.0	UL-RL	6.1194E+04	327.4	64.44
1.000	1.000	101.8	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
60 D	23.34	-7.6070E-04	175.2	50.37	214.5	107.3	UL-RL	6.1194E+04	327.2	66.34
1.000	1.000	116.7	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
61 D	26.26	-5.7456E-04	177.8	63.05	217.0	108.5	UL-RL	6.1194E+04	327.0	68.23
1.000	1.000	131.3	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
62 D	29.10	-3.9391E-04	180.4	75.39	219.5	109.8	UL-RL	6.1194E+04	326.8	70.12
1.000	1.000	145.5	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
63 D	31.89	-2.1812E-04	183.0	87.43	222.0	111.0	UL-RL	6.1194E+04	326.6	72.02
1.000	1.000	159.4	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
64 D	34.62	-4.6820E-05	185.6	99.20	224.5	112.2	UL-RL	6.1194E+04	326.4	73.91
1.000	1.000	173.1	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
65 D	37.15	1.2063E-04	188.2	110.0	227.0	113.9	UL-RL	6.1194E+04	326.2	75.81
1.000	1.000	185.8	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
66 D	38.58	2.8474E-04	190.8	115.2	229.5	118.2	UL-RL	6.1194E+04	326.0	77.70
1.000	1.000	192.9	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
67 D	40.00	4.4604E-04	193.4	120.4	232.0	122.4	UL-RL	6.1194E+04	325.8	79.59
1.000	1.000	200.0	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
68 D	41.41	6.0499E-04	196.0	125.6	234.5	126.6	UL-RL	6.1194E+04	325.6	81.49
1.000	1.000	207.1	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
69 D	42.81	7.6203E-04	198.6	130.7	237.0	130.7	UL-RL	6.1194E+04	325.4	83.38
1.000	1.000	214.1	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
70 D	44.08	9.1759E-04	201.2	135.1	239.5	135.1	V-C	2.0398E+04	325.2	85.28
1.000	1.000	220.4	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
71 D	45.34	1.0721E-03	203.8	139.5	242.0	139.5	V-C	2.0398E+04	325.0	87.17
1.000	1.000	226.7	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
72 D	46.60	1.2257E-03	206.5	143.9	244.5	143.9	V-C	2.0398E+04	324.8	89.06
1.000	1.000	233.0	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
73 D	47.86	1.3788E-03	209.1	148.3	247.0	148.3	V-C	2.0398E+04	324.6	90.96
1.000	1.000	239.3	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
74 D	49.11	1.5316E-03	211.7	152.7	249.5	152.7	V-C	2.0398E+04	324.4	92.85
1.000	1.000	245.6	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
75 D	50.36	1.6843E-03	214.3	157.1	252.0	157.1	V-C	2.0398E+04	324.2	94.75
1.000	1.000	251.8	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
76 D	25.81	1.8362E-03	216.9	161.4	254.5	161.4	V-C	2.0398E+04	324.0	96.63
1.000	1.000	258.1	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						

New Project

S T R E S S R E S U L T S F O R G R O U P N O. 2

0_R :
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 76
C U R R E N T T I M E I S 4.0000 SUBINCREMENT 00001/00001

HARDENING 2D SOIL ELEMENT

****** TOTAL STRESS FORMULATION *****

EL * TOR	FORCE UFACTOR	DISPL-Y Peq	VERTICAL-P Su_a	HORIZON.-P Su_p	MAX-V-P Cohe_a	MAX-H-P Cohe_p	STATE LAYER	STIFFNESS	Z-LEVEL ZFO	PORE	E FAC-QS
QSL	ZD	ZPL	Kz								
1	0.000	--	--	--	--	--	REMOVED	--	339.0	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
2	0.000	--	--	--	--	--	REMOVED	--	338.8	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
3	0.000	--	--	--	--	--	REMOVED	--	338.6	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
4	0.000	--	--	--	--	--	REMOVED	--	338.4	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
5	0.000	--	--	--	--	--	REMOVED	--	338.2	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
6	0.000	--	--	--	--	--	REMOVED	--	338.0	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
7	0.000	--	--	--	--	--	REMOVED	--	337.8	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
8	0.000	--	--	--	--	--	REMOVED	--	337.6	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
9	0.000	--	--	--	--	--	REMOVED	--	337.4	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
10	0.000	--	--	--	--	--	REMOVED	--	337.2	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
11	0.000	--	--	--	--	--	REMOVED	--	337.0	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
12	0.000	--	--	--	--	--	REMOVED	--	336.8	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
13	0.000	--	--	--	--	--	REMOVED	--	336.6	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
14	0.000	--	--	--	--	--	REMOVED	--	336.4	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
15	0.000	--	--	--	--	--	REMOVED	--	336.2	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
16	0.000	--	--	--	--	--	REMOVED	--	336.0	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
17	0.000	--	--	--	--	--	REMOVED	--	335.8	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
18	0.000	--	--	--	--	--	REMOVED	--	335.6	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
19	0.000	--	--	--	--	--	REMOVED	--	335.4	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
20	0.000	--	--	--	--	--	REMOVED	--	335.2	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
21	0.000	--	--	--	--	--	REMOVED	--	335.0	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
22	0.000	--	--	--	--	--	REMOVED	--	334.8	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
23	0.000	--	--	--	--	--	REMOVED	--	334.6	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
24	0.000	--	--	--	--	--	REMOVED	--	334.4	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
25	0.000	--	--	--	--	--	REMOVED	--	334.2	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
26	0.000	--	--	--	--	--	REMOVED	--	334.0	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
27	0.000	--	--	--	--	--	REMOVED	--	333.8	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
28	0.000	--	--	--	--	--	REMOVED	--	333.6	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
29	0.000	--	--	--	--	--	REMOVED	--	333.4	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
30	0.000	--	--	--	--	--	REMOVED	--	333.2	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
31 D	6.925	9.7946E-03	8.0000E-03	34.62	146.9	82.53	PASSIVE	0.000	333.0	0.000	
1.000	1.000	34.62	0.000	0.000	10.38	10.38	Salt_1270_202756_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
32 D	9.145	9.3737E-03	4.008	45.72	148.9	83.66	PASSIVE	0.000	332.8	0.000	

```
1.000       1.000       45.72       0.000       0.000       10.38       10.38     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  33 D   11.37       8.9578E-03  8.008       56.83       150.9       84.79         PASSIVE   0.000       332.6       0.000
1.000       1.000       56.83       0.000       0.000       10.38       10.38     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  34 D   12.98       8.5473E-03  10.52       63.41       152.9       85.92         PASSIVE   0.000       332.4       1.488
1.000       1.000       64.90       0.000       0.000       10.38       10.38     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  35 D   13.96       8.1426E-03  11.46       65.27       154.9       87.05         PASSIVE   0.000       332.2       4.550
1.000       1.000       69.82       0.000       0.000       10.38       10.38     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  36 D   14.95       7.7441E-03  12.40       67.15       156.9       88.18         PASSIVE   0.000       332.0       7.612
1.000       1.000       74.77       0.000       0.000       10.38       10.38     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  37 D   15.95       7.3523E-03  13.33       69.07       158.9       89.31         PASSIVE   0.000       331.8       10.67
1.000       1.000       79.74       0.000       0.000       10.38       10.38     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  38 D   16.95       6.9674E-03  14.27       71.01       160.9       90.44         PASSIVE   0.000       331.6       13.74
1.000       1.000       84.75       0.000       0.000       10.38       10.38     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  39 D   17.96       6.5902E-03  15.21       72.98       162.9       91.56         PASSIVE   0.000       331.4       16.80
1.000       1.000       89.78       0.000       0.000       10.38       10.38     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  40 D   18.96       6.2209E-03  16.15       74.96       164.9       92.69         PASSIVE   0.000       331.2       19.86
1.000       1.000       94.82       0.000       0.000       10.38       10.38     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  41 D   35.45       5.8599E-03  17.09       154.3       166.9       154.3           V-C   1.5320E+04  331.0       22.92
1.000       1.000       177.2       0.000       0.000       51.92       51.92     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  42 D   35.09       5.5076E-03  19.48       150.4       169.4       150.4           V-C   1.5320E+04  330.8       25.03
1.000       1.000       175.5       0.000       0.000       51.92       51.92     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  43 D   34.76       5.1644E-03  21.88       146.7       171.9       146.7           V-C   1.5320E+04  330.6       27.13
1.000       1.000       173.8       0.000       0.000       51.92       51.92     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  44 D   34.45       4.8304E-03  24.27       143.0       174.4       143.0           V-C   1.5320E+04  330.4       29.24
1.000       1.000       172.2       0.000       0.000       51.92       51.92     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  45 D   34.16       4.5060E-03  26.67       139.5       176.9       139.5           V-C   1.5320E+04  330.2       31.35
1.000       1.000       170.8       0.000       0.000       51.92       51.92     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  46 D   33.90       4.1913E-03  29.06       136.1       179.5       136.1           V-C   1.5320E+04  330.0       33.45
1.000       1.000       169.5       0.000       0.000       51.92       51.92     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  47 D   33.67       3.8861E-03  31.45       132.8       182.0       132.8           V-C   1.5320E+04  329.8       35.56
1.000       1.000       168.3       0.000       0.000       51.92       51.92     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  48 D   33.47       3.5910E-03  33.85       129.7       184.5       129.7           V-C   1.5320E+04  329.6       37.66
1.000       1.000       167.3       0.000       0.000       51.92       51.92     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  49 D   33.29       3.3056E-03  36.24       126.7       187.0       126.7           V-C   1.5320E+04  329.4       39.77
1.000       1.000       166.4       0.000       0.000       51.92       51.92     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  50 D   33.14       3.0300E-03  38.64       123.8       189.5       123.8           V-C   1.5320E+04  329.2       41.88
1.000       1.000       165.7       0.000       0.000       51.92       51.92     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  51 D   33.02       2.7639E-03  41.03       121.1       192.0       121.1           V-C   1.5320E+04  329.0       43.98
1.000       1.000       165.1       0.000       0.000       51.92       51.92     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  52 D   32.93       2.5074E-03  43.42       118.5       194.5       118.5           V-C   1.5320E+04  328.8       46.09
1.000       1.000       164.6       0.000       0.000       51.92       51.92     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  53 D   32.86       2.2601E-03  45.82       116.1       197.0       116.1           V-C   1.5320E+04  328.6       48.20
1.000       1.000       164.3       0.000       0.000       51.92       51.92     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  54 D   32.82       2.0218E-03  48.21       113.8       199.5       113.8           V-C   1.5320E+04  328.4       50.30
1.000       1.000       164.1       0.000       0.000       51.92       51.92     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  55 D   32.81       1.7920E-03  50.61       111.6       202.0       111.6           V-C   1.5320E+04  328.2       52.41
1.000       1.000       164.0       0.000       0.000       51.92       51.92     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  56 D   32.82       1.5708E-03  53.00       109.6       204.5       109.6           V-C   1.5320E+04  328.0       54.52
1.000       1.000       164.1       0.000       0.000       51.92       51.92     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  57 D   32.85       1.3574E-03  55.39       107.6       207.0       107.6           V-C   1.5320E+04  327.8       56.62
1.000       1.000       164.2       0.000       0.000       51.92       51.92     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  58 D   32.91       1.1516E-03  57.79       105.8       209.5       105.8           V-C   1.5320E+04  327.6       58.73
1.000       1.000       164.5       0.000       0.000       51.92       51.92     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  59 D   32.22       9.5288E-04  60.18       100.3       212.0       106.0          UL-RL  4.5960E+04  327.4       60.83
1.000       1.000       161.1       0.000       0.000       51.92       51.92     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  60 D   31.16       7.6070E-04  62.58       92.88       214.5       107.2          UL-RL  4.5960E+04  327.2       62.94
1.000       1.000       155.8       0.000       0.000       51.92       51.92     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  61 D   30.16       5.7456E-04  64.97       85.76       217.0       108.5          UL-RL  4.5960E+04  327.0       65.05
1.000       1.000       150.8       0.000       0.000       51.92       51.92     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  62 D   29.21       3.9391E-04  67.36       78.89       219.5       109.7          UL-RL  4.5960E+04  326.8       67.15
1.000       1.000       146.0       0.000       0.000       51.92       51.92     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
```

63 D	28.30	2.1812E-04	69.76	72.24	222.0	111.0	UL-RL	4.5960E+04	326.6	69.26
1.000	1.000	141.5	0.000	0.000	51.92	51.92	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
64 D	27.43	4.6820E-05	72.15	65.78	224.5	112.2	UL-RL	4.5960E+04	326.4	71.37
1.000	1.000	137.1	0.000	0.000	51.92	51.92	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
65 D	26.59	-1.2063E-04	74.55	59.49	227.0	113.5	UL-RL	4.5960E+04	326.2	73.47
1.000	1.000	133.0	0.000	0.000	51.92	51.92	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
66 D	25.78	-2.8474E-04	76.94	53.35	229.5	114.7	UL-RL	4.5960E+04	326.0	75.58
1.000	1.000	128.9	0.000	0.000	51.92	51.92	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
67 D	25.00	-4.4604E-04	79.33	47.33	232.0	116.0	UL-RL	4.5960E+04	325.8	77.68
1.000	1.000	125.0	0.000	0.000	51.92	51.92	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
68 D	24.24	-6.0499E-04	81.73	41.41	234.5	117.2	UL-RL	4.5960E+04	325.6	79.79
1.000	1.000	121.2	0.000	0.000	51.92	51.92	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
69 D	23.49	-7.6203E-04	84.12	35.57	237.0	118.5	UL-RL	4.5960E+04	325.4	81.90
1.000	1.000	117.5	0.000	0.000	51.92	51.92	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
70 D	22.76	-9.1759E-04	86.52	29.79	239.5	119.7	UL-RL	4.5960E+04	325.2	84.00
1.000	1.000	113.8	0.000	0.000	51.92	51.92	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
71 D	22.03	-1.0721E-03	88.91	24.06	242.0	121.0	UL-RL	4.5960E+04	325.0	86.11
1.000	1.000	110.2	0.000	0.000	51.92	51.92	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
72 D	21.32	-1.2257E-03	91.30	18.37	244.5	122.2	UL-RL	4.5960E+04	324.8	88.22
1.000	1.000	106.6	0.000	0.000	51.92	51.92	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
73 D	20.60	-1.3788E-03	93.70	12.69	247.0	123.5	UL-RL	4.5960E+04	324.6	90.32
1.000	1.000	103.0	0.000	0.000	51.92	51.92	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
74 D	19.89	-1.5316E-03	96.09	7.022	249.5	124.7	UL-RL	4.5960E+04	324.4	92.43
1.000	1.000	99.45	0.000	0.000	51.92	51.92	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
75 D	19.18	-1.6843E-03	98.49	1.356	252.0	126.0	UL-RL	4.5960E+04	324.2	94.53
1.000	1.000	95.89	0.000	0.000	51.92	51.92	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
76 D	9.663	-1.8362E-03	100.9	0.000	254.5	127.2	ACTIVE	0.000	324.0	96.63
1.000	1.000	96.63	0.000	0.000	51.92	51.92	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						

New Project

S T R E S S R E S U L T S F O R G R O U P N O. 3

Pali1500_253215 :
ELEMENT TYPE 2 NO.OF ELEMENTS. IN THIS GROUP 75
C U R R E N T T I M E I S 4.0000 SUBINCREMENT 00001/00001

WALL2D ELEMENT

EL	TA	TB	MA	MB
1	1.5838	-1.5838	1.50639E-10	0.31676
2	4.7514	-4.7514	-0.31676	1.2670
3	7.9190	-7.9190	-1.2670	2.8508
4	11.087	-11.087	-2.8508	5.0681
5	14.255	-14.255	-5.0681	7.9205
6	17.423	-17.423	-7.9205	11.405
7	20.591	-20.591	-11.405	15.523
8	23.758	-23.758	-15.523	20.275
9	26.992	-26.992	-20.275	25.673
10	30.413	-30.413	-25.673	31.756
11	34.057	-34.057	-31.756	38.567
12	38.073	-38.073	-38.567	46.182
13	42.462	-42.462	-46.182	54.678
14	47.222	-47.222	-54.678	64.123
15	52.355	-52.355	-64.123	74.594
16	57.858	-57.858	-74.594	86.166
17	63.734	-63.734	-86.166	98.912
18	69.982	-69.982	-98.912	112.91
19	76.602	-76.602	-112.91	128.23
20	83.594	-83.594	-128.23	144.95
21	92.602	-92.602	-144.95	163.48
22	102.10	-102.10	-163.48	183.90
23	112.08	-112.08	-183.90	206.31
24	122.56	-122.56	-206.31	230.83
25	133.52	-133.52	-230.83	257.53
26	144.97	-144.97	-257.53	286.52
27	156.91	-156.91	-286.52	317.90
28	169.33	-169.33	-317.90	351.77
29	182.25	-182.25	-351.77	388.24
30	195.62	-195.62	-388.24	427.36
31	199.42	-199.42	-427.36	467.25
32	201.49	-201.49	-467.25	507.54
33	201.82	-201.82	-507.54	547.91
34	201.03	-201.03	-547.91	588.11
35	199.74	-199.74	-588.11	628.06
36	197.96	-197.96	-628.06	667.66
37	195.66	-195.66	-667.66	706.81
38	192.85	-192.85	-706.81	745.38
39	189.53	-189.53	-745.38	783.28
40	185.68	-185.68	-783.28	820.42
41	156.31	-156.31	-820.42	851.68
42	127.66	-127.66	-851.68	877.21
43	99.735	-99.735	-877.21	897.16
44	72.496	-72.496	-897.16	911.66
45	45.920	-45.920	-911.66	920.84
46	19.983	-19.983	-920.84	924.84
47	-5.3438	5.3438	-924.84	923.77
48	-30.087	30.087	-923.77	917.76
49	-54.052	54.052	-917.76	906.95
50	-77.239	77.239	-906.95	891.50
51	-99.676	99.676	-891.50	871.56
52	-121.39	121.39	-871.56	847.29
53	-142.41	142.41	-847.29	818.80
54	-162.76	162.76	-818.80	786.24
55	-182.46	182.46	-786.24	749.74
56	-201.55	201.55	-749.74	709.43
57	-220.04	220.04	-709.43	665.43
58	-235.66	235.66	-665.43	618.30
59	-247.52	247.52	-618.30	568.79
60	-255.34	255.34	-568.79	517.72
61	-259.25	259.25	-517.72	465.87
62	-259.36	259.36	-465.87	413.97
63	-255.77	255.77	-413.97	362.82
64	-248.57	248.57	-362.82	313.11
65	-238.01	238.01	-313.11	265.50
66	-225.21	225.21	-265.50	220.46
67	-210.21	210.21	-220.46	178.42
68	-193.04	193.04	-178.42	139.81
69	-173.72	173.72	-139.81	105.06
70	-152.40	152.40	-105.06	74.570

71	-129.09	129.09	-74.570	48.751
72	-103.81	103.81	-48.751	27.990
73	-76.551	76.551	-27.990	12.680
74	-47.330	47.330	-12.680	3.2141
75	-16.143	16.143	-3.2141	1.52394E-11

```
+-------------------------------------------------------------------------------------------------------------------------+
|                   PARATIEPLUS(TM)   NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*             |
|                                                                                                                         |
|                                                ParatiePlus                                                              |
|                                Exe Time :28 January 2022   16:22:50                                                     |
+-------------------------------------------------------------------------------------------------------------------------+


     F I N A L    I N C R E M E N T A L    A N A L Y S I S

                    S U M M A R Y

     STEP                                  NO. OF ITERATIONS

        1           CONVERGENCE :YES                      2
        2           CONVERGENCE :YES                      2
        3           CONVERGENCE :YES                      6
        4           CONVERGENCE :YES                      5


 END OF PROCESS FOR PROBLEM
New Project
NONLINEAR SOLUTION CPU TIME ....    0.06 [sec]
DATABASE  CREATION CPU TIME.....    0.18 [sec]
```

8.11. Design Assumption : SISMICA GEO - File di Paratie - File di input (.d)

```
* PARATIE ANALYSIS FOR DESIGN SECTION:Base Design Section USING ASSUMPTION: SISMICA GEO
 * Time:venerdì 28 gennaio 2022 16:22:51
 * 1: Defining general settings
 UNIT  m kN
 TITLE New Project
 DELTA 0.2
 option param itemax 80
 option control contact lagrange

 option control hinges 0 0.0001 0.001

 * 2: Defining wall(s)
 WALL LeftWall_36 10 324 339 1

 * 3: Defining surfaces for wall(s)
 SOIL 0_L LeftWall_36 324 339 1 0
 SOIL 0_R LeftWall_36 324 339 2 180

 * 4: Defining soil layers
 *
 * Soil Profile (Aate_364268_2050_L_0)
 *
 LDATA Aate_364268_2050_L_0 343 LeftWall_36
 ATREST 0.5 0.5 1
 WEIGHT 19 9 10
 PERMEABILITY 1E-05
 RESISTANCE 10 31 0 0 0
 TZDATA  LINEAR 10000 0 25 0.5 0
 KSCALE  0 0
 YOUNG 40000 1.2E+05
 ENDL
 *
 * Soil Profile (Salt_1270_202756_L_0)
 *
 LDATA Salt_1270_202756_L_0 335 LeftWall_36
 ATREST 0.562 0.5 1
 WEIGHT 20 10 10
 PERMEABILITY 1E-05
 RESISTANCE 10 26 0 0 0
 TZDATA  LINEAR 10000 0 25 0.5 0
 KSCALE  0 0
 YOUNG 2E+05 6E+05
 ENDL
 *
 * Soil Profile (Pa_244788_244789_L_0)
 *
 LDATA Pa_244788_244789_L_0 331 LeftWall_36
 ATREST 0.5 0.5 1
 WEIGHT 22.5 12.5 10
 PERMEABILITY 0.0001
 RESISTANCE 50 27 0 0 0
 TZDATA  LINEAR 20000 0 30 0.5 0
 KSCALE  0 0
 YOUNG 1E+05 3E+05
 ENDL

 * 5: Defining structural materials
 * Steel material: 114 Name=Fe360 E=206000200 kPa
 MATERIAL Fe360_114 2.06E+08
 * Concrete material: 112 Name=C32/40 E=33345800 kPa
 MATERIAL C3240_112 3.3346E+07

 * 6: Defining structural elements
 * 6.1: Beams and combined Wall Elements
 ** rev 2021 and later
 BEAM Pali1500_253215 LeftWall_36 324 339 C3240_112 1.1067 0.80325 0.11296 20.081 00 00 0


 * 6.2: Supports




 * 6.3: Strips

 * 7: Defining Steps
 STEP AnteOperam_1747
 CHANGE Aate_364268_2050_L_0 U-FRICT=31 LeftWall_36
 CHANGE Aate_364268_2050_L_0 D-FRICT=31 LeftWall_36
 CHANGE Aate_364268_2050_L_0 U-KA=0.303 LeftWall_36
 CHANGE Aate_364268_2050_L_0 U-KP=3.803 LeftWall_36
 CHANGE Aate_364268_2050_L_0 D-KA=0.34 LeftWall_36
 CHANGE Aate_364268_2050_L_0 D-KP=4.555 LeftWall_36
 CHANGE Salt_1270_202756_L_0 U-FRICT=26 LeftWall_36
 CHANGE Salt_1270_202756_L_0 D-FRICT=26 LeftWall_36
```

```
CHANGE Salt_1270_202756_L_0 U-KA=0.368 LeftWall_36
CHANGE Salt_1270_202756_L_0 U-KP=2.867 LeftWall_36
CHANGE Salt_1270_202756_L_0 D-KA=0.418 LeftWall_36
CHANGE Salt_1270_202756_L_0 D-KP=3.404 LeftWall_36
CHANGE Pa_244788_244789_L_0 U-FRICT=27 LeftWall_36
CHANGE Pa_244788_244789_L_0 D-FRICT=27 LeftWall_36
CHANGE Pa_244788_244789_L_0 U-KA=0.355 LeftWall_36
CHANGE Pa_244788_244789_L_0 U-KP=2.998 LeftWall_36
CHANGE Pa_244788_244789_L_0 D-KA=0.401 LeftWall_36
CHANGE Pa_244788_244789_L_0 D-KP=3.601 LeftWall_36
CHANGE Aate_364268_2050_L_0 U-COHE=10 LeftWall_36
CHANGE Aate_364268_2050_L_0 U-ADHES=0 LeftWall_36
CHANGE Aate_364268_2050_L_0 D-COHE=10 LeftWall_36
CHANGE Aate_364268_2050_L_0 D-ADHES=0 LeftWall_36
CHANGE Salt_1270_202756_L_0 U-COHE=10 LeftWall_36
CHANGE Salt_1270_202756_L_0 U-ADHES=0 LeftWall_36
CHANGE Salt_1270_202756_L_0 D-COHE=10 LeftWall_36
CHANGE Salt_1270_202756_L_0 D-ADHES=0 LeftWall_36
CHANGE Pa_244788_244789_L_0 U-COHE=50 LeftWall_36
CHANGE Pa_244788_244789_L_0 U-ADHES=0 LeftWall_36
CHANGE Pa_244788_244789_L_0 D-COHE=50 LeftWall_36
CHANGE Pa_244788_244789_L_0 D-ADHES=0 LeftWall_36
SETWALL LeftWall_36
GEOM 343 343
SURCHARGE 0 0 0 0
WATER 337.47 -0.066047 324 0 0
ENDSTEP

STEP Pre-scavo+Pali_244791
CHANGE Aate_364268_2050_L_0 U-KA=0.322 LeftWall_36
CHANGE Aate_364268_2050_L_0 U-KP=4.555 LeftWall_36
CHANGE Aate_364268_2050_L_0 D-KA=0.32 LeftWall_36
CHANGE Salt_1270_202756_L_0 U-KA=0.491 LeftWall_36
CHANGE Salt_1270_202756_L_0 U-KP=3.404 LeftWall_36
CHANGE Salt_1270_202756_L_0 D-KA=0.39 LeftWall_36
CHANGE Pa_244788_244789_L_0 U-KA=0.481 LeftWall_36
CHANGE Pa_244788_244789_L_0 U-KP=3.601 LeftWall_36
CHANGE Pa_244788_244789_L_0 D-KA=0.376 LeftWall_36
SETWALL LeftWall_36
GEOM 339 339
SURCHARGE 0 0 0 0
WATER 337.47 -0.039326 324 0 0
ADD Pali1500_253215
ENDSTEP

STEP Scavofinale_252903
SETWALL LeftWall_36
GEOM 339 333
SURCHARGE 0 0 0 0
WATER 337.47 4.9732 324 0 0
ENDSTEP

STEP Sisma_284297
SETWALL LeftWall_36
GEOM 339 333
SURCHARGE 0 0 0 0
WATER 337.47 4.9732 324 0 0
CHANGE Aate_364268_2050_L_0 U-KAED=0.44088 LeftWall_36
CHANGE Aate_364268_2050_L_0 U-KAEW=0.5814 LeftWall_36
CHANGE Aate_364268_2050_L_0 U-KPED=4.441 LeftWall_36
CHANGE Aate_364268_2050_L_0 U-KPEW=3.7963 LeftWall_36
CHANGE Aate_364268_2050_L_0 D-KAED=0.39225 LeftWall_36
CHANGE Aate_364268_2050_L_0 D-KAEW=0.54154 LeftWall_36
CHANGE Aate_364268_2050_L_0 D-KPED=3.7685 LeftWall_36
CHANGE Aate_364268_2050_L_0 D-KPEW=3.0916 LeftWall_36
CHANGE Salt_1270_202756_L_0 U-KAED=0.7584 LeftWall_36
CHANGE Salt_1270_202756_L_0 U-KAEW=1.1113 LeftWall_36
CHANGE Salt_1270_202756_L_0 U-KPED=3.2803 LeftWall_36
CHANGE Salt_1270_202756_L_0 U-KPEW=2.7847 LeftWall_36
CHANGE Salt_1270_202756_L_0 D-KAED=0.46829 LeftWall_36
CHANGE Salt_1270_202756_L_0 D-KAEW=0.625 LeftWall_36
CHANGE Salt_1270_202756_L_0 D-KPED=2.7754 LeftWall_36
CHANGE Salt_1270_202756_L_0 D-KPEW=2.2487 LeftWall_36
CHANGE Pa_244788_244789_L_0 U-KAED=0.76054 LeftWall_36
CHANGE Pa_244788_244789_L_0 U-KAEW=1.077 LeftWall_36
CHANGE Pa_244788_244789_L_0 U-KPED=3.4777 LeftWall_36
CHANGE Pa_244788_244789_L_0 U-KPEW=3.0819 LeftWall_36
CHANGE Pa_244788_244789_L_0 D-KAED=0.45252 LeftWall_36
CHANGE Pa_244788_244789_L_0 D-KAEW=0.56751 LeftWall_36
CHANGE Pa_244788_244789_L_0 D-KPED=2.9451 LeftWall_36
CHANGE Pa_244788_244789_L_0 D-KPEW=2.5269 LeftWall_36
EQK USER 0.1454 0.0727 -0.0727 0 0.5 0 0.5 0 0
* Defining seismic surcharge pressures on wall LeftWall_36
*          min elevation = 333
*          max elevation = 339
*          average gamma = 19,3333333333333
*                     kh = 0,1454
*                deltaQ = 75,8988
DLOAD step LeftWall_36 333 12.65 339 12.65
* Include pressure contribution from wall: LeftWall_36
* Include wall contribution
DLOAD step LeftWall_36 333 2.9198 339 2.9198
```

```
ENDSTEP
```

8.12. Design Assumption : SISMICA GEO - File di Paratie - File di output (.out)

```
+-------------------------------------------------------------------------------------------------------------------------------+
|                  PARATIEPLUS(TM)   NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*                     |
|                                                                                                                               |
|                                                ParatiePlus                                                                    |
|                              Exe Time :28 January 2022   16:22:51                                                             |
+-------------------------------------------------------------------------------------------------------------------------------+

                    ********************************************************
                    *                                                      *
                    *  PARATIE PLUS Non-Linear Spring Engine               *
                    *                                                      *
                    *          AN ELASTOPLASTIC FINITE ELEMENT PROGRAM     *
                    *          FOR FLEXIBLE EARTH-RETAINING STRUCTURES     *
                    *                                                      *
                    *          Written by CEAS s.r.l. (ITALY)              *
                    *          with the scientific supervision of          *
                    *          Roberto Nova - full professor SOIL MECHANICS*
                    *          at Politecnico di Milano (ITALY)            *
                    *                                                      *
                    ********************************************************
                    *                                                      *
                    *  RELEASE   2022.0.0   *Build date:Sep 13, 2021*      *
                    *                                                      *
                    *                                                      *
                    *  CEAS S.R.L  VIALE   GIUSTINIANO 10                  *
                    *              20129   M I L A N O  (ITALIA)           *
                    *  TEL.        +39 02 2020221                          *
                    *                                                      *
                    *  email       bruno.becci@ceas.it                     *
                    *  Web Page    www.ceas.it     www.paratieplus.com     *
                    ********************************************************



 JOB : ParatiePlus
 STARTING
ACCEPTED   &lt;FILE,GENW                                                                    &gt;
ACCEPTED   &lt;FILE,PLOTTER,BINARY                                                          &gt;
ACCEPTED   &lt;SOLVE TOTAL_STRESS                                                           &gt;
ACCEPTED   &lt;PARAM ITEMAX 80                                                              &gt;
ACCEPTED   &lt;CONTROL CONTACT LAGRANGE                                                     &gt;
ACCEPTED   &lt;CONTROL HINGES 0 0.0001 0.001                                                &gt;



                    ********************************************************
                    *                                                      *
                    *  WARNING : PORE PRESSURES ARE AUTOMATICALLY COMPUTED  *
                    *    BY THE PROGRAM.                                   *
                    ********************************************************

PRELIMINARY OPERATIONS CPU TIME     0.00 [sec]
```

```
+-----------------------------------------------------------------------------------------------------------------------+
|                   PARATIEPLUS(TM)   NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*             |
|                                                                                                                       |
|                                                ParatiePlus                                                            |
|                                 Exe Time :28 January 2022   16:22:51                                                  |
+-----------------------------------------------------------------------------------------------------------------------+


INPUT FILE HAS BEEN GENERATED BY WALGEN PROGRAM


New Project


NO. OF NODAL POINTS (NUMNP) ...................   76
NO. OF COORDINATES  (NCOORD)...................    2
NO. OF NODE DOFS    (NDOF).....................    2
NO. OF EQUATIONS    (NEQ)...................... 152
NO. OF CONSTRAINTS CARDS (NVINC)...............    0
NO. OF ELEMENT GROUPS (NEG)....................    3
NO. OF SOLUTION STEPS (NSTE)...................    4
NO. OF ELEMENT SETS ATTACHED TO SLAVE NODES ...    0
NO. OF RECORD FROM WALGEN ..................... 130
NO. OF LONG NAMES (LASTNAME) ..................   17
LENGTH UNIT CHOICE ............................    3 (M   )
FORCE  UNIT CHOICE ............................    3 (KN  )
MAX PORE PRESSURE TABLE LENGTH.................    1
MAX INELASTIC DISPL. TABLE LENGTH..............    0
NO. OF ELEMENT GROUPS REQUIRING ADD. SLIP DOF .    0


IDOFA (01) =  2  Y-DISPL.F
IDOFA (02) =  4   X-ROT. F

 RELEVANT ITEMS UNITS

 STRESSES                  kPa
 Y-DISPLACEMENTS           m
 ROTATIONS                 RADIANS
 BEAM AND SLAB MOMENTS     kN*m/m
 BEAM SHEAR FORCES         kN/m
 ANCHOR FORCES             kN/m
 AXIAL FORCES IN TRUSSES   kN/m
 AXIAL FORCES SPRINGS      kN/m
 Y-REACTIONS               kN/m
 X-MOMENT REACTIONS        kN*m/m
 ETC.
```

```
+-------------------------------------------------------------------------------------------------------------------------+
|                   PARATIEPLUS(TM)   NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*              |
|                                                                                                                         |
|                                              ParatiePlus                                                                |
|                                  Exe Time :28 January 2022   16:22:51                                                   |
+-------------------------------------------------------------------------------------------------------------------------+
                   P R E P R O C E S S O R     D A T A

                   N O.  O F   C O M M A N D S    130

    1 : UNIT  m kN
    2 : TITLE New Project
    3 : DELTA 0.2
    4 : option param itemax 80
    5 : option control contact lagrange
    6 : option control hinges 0 0.0001 0.001
    7 : WALL LeftWall_36 10 324 339 1
    8 : SOIL 0_L LeftWall_36 324 339 1 0
    9 : SOIL 0_R LeftWall_36 324 339 2 180
   10 : LDATA Aate_364268_2050_L_0 343 LeftWall_36
   11 : ATREST 0.5 0.5 1
   12 : WEIGHT 19 9 10
   13 : PERMEABILITY 1E-05
   14 : RESISTANCE 10 31 0 0 0
   15 : TZDATA  LINEAR 10000 0 25 0.5 0
   16 : KSCALE  0 0
   17 : YOUNG 40000 1.2E+05
   18 : ENDL
   19 : LDATA Salt_1270_202756_L_0 335 LeftWall_36
   20 : ATREST 0.562 0.5 1
   21 : WEIGHT 20 10 10
   22 : PERMEABILITY 1E-05
   23 : RESISTANCE 10 26 0 0 0
   24 : TZDATA  LINEAR 10000 0 25 0.5 0
   25 : KSCALE  0 0
   26 : YOUNG 2E+05 6E+05
   27 : ENDL
   28 : LDATA Pa_244788_244789_L_0 331 LeftWall_36
   29 : ATREST 0.5 0.5 1
   30 : WEIGHT 22.5 12.5 10
   31 : PERMEABILITY 0.0001
   32 : RESISTANCE 50 27 0 0 0
   33 : TZDATA  LINEAR 20000 0 30 0.5 0
   34 : KSCALE  0 0
   35 : YOUNG 1E+05 3E+05
   36 : ENDL
   37 : MATERIAL Fe360_114 2.06E+08
   38 : MATERIAL C3240_112 3.3346E+07
   39 : BEAM Pali1500_253215 LeftWall_36 324 339 C3240_112 1.1067 0.80325 0.11296 20.081 00 00 0
   40 : STEP AnteOperam_1747
   41 : CHANGE Aate_364268_2050_L_0 U-FRICT=31 LeftWall_36
   42 : CHANGE Aate_364268_2050_L_0 D-FRICT=31 LeftWall_36
   43 : CHANGE Aate_364268_2050_L_0 U-KA=0.303 LeftWall_36
   44 : CHANGE Aate_364268_2050_L_0 U-KP=3.803 LeftWall_36
   45 : CHANGE Aate_364268_2050_L_0 D-KA=0.34 LeftWall_36
   46 : CHANGE Aate_364268_2050_L_0 D-KP=4.555 LeftWall_36
   47 : CHANGE Salt_1270_202756_L_0 U-FRICT=26 LeftWall_36
   48 : CHANGE Salt_1270_202756_L_0 D-FRICT=26 LeftWall_36
   49 : CHANGE Salt_1270_202756_L_0 U-KA=0.368 LeftWall_36
   50 : CHANGE Salt_1270_202756_L_0 U-KP=2.867 LeftWall_36
   51 : CHANGE Salt_1270_202756_L_0 D-KA=0.418 LeftWall_36
   52 : CHANGE Salt_1270_202756_L_0 D-KP=3.404 LeftWall_36
   53 : CHANGE Pa_244788_244789_L_0 U-FRICT=27 LeftWall_36
   54 : CHANGE Pa_244788_244789_L_0 D-FRICT=27 LeftWall_36
   55 : CHANGE Pa_244788_244789_L_0 U-KA=0.355 LeftWall_36
   56 : CHANGE Pa_244788_244789_L_0 U-KP=2.998 LeftWall_36
   57 : CHANGE Pa_244788_244789_L_0 D-KA=0.401 LeftWall_36
   58 : CHANGE Pa_244788_244789_L_0 D-KP=3.601 LeftWall_36
   59 : CHANGE Aate_364268_2050_L_0 U-COHE=10 LeftWall_36
   60 : CHANGE Aate_364268_2050_L_0 U-ADHES=0 LeftWall_36
   61 : CHANGE Aate_364268_2050_L_0 D-COHE=10 LeftWall_36
   62 : CHANGE Aate_364268_2050_L_0 D-ADHES=0 LeftWall_36
   63 : CHANGE Salt_1270_202756_L_0 U-COHE=10 LeftWall_36
   64 : CHANGE Salt_1270_202756_L_0 U-ADHES=0 LeftWall_36
   65 : CHANGE Salt_1270_202756_L_0 D-COHE=10 LeftWall_36
   66 : CHANGE Salt_1270_202756_L_0 D-ADHES=0 LeftWall_36
   67 : CHANGE Pa_244788_244789_L_0 U-COHE=50 LeftWall_36
   68 : CHANGE Pa_244788_244789_L_0 U-ADHES=0 LeftWall_36
   69 : CHANGE Pa_244788_244789_L_0 D-COHE=50 LeftWall_36
   70 : CHANGE Pa_244788_244789_L_0 D-ADHES=0 LeftWall_36
   71 : SETWALL LeftWall_36
   72 : GEOM 343 343
   73 : SURCHARGE 0 0 0 0
   74 : WATER 337.47 -0.066047 324 0 0
   75 : ENDSTEP
   76 : STEP Pre-scavo+Pali_244791
   77 : CHANGE Aate_364268_2050_L_0 U-KA=0.322 LeftWall_36
   78 : CHANGE Aate_364268_2050_L_0 U-KP=4.555 LeftWall_36
   79 : CHANGE Aate_364268_2050_L_0 D-KA=0.32 LeftWall_36
```

```
 80 : CHANGE Salt_1270_202756_L_0 U-KA=0.491 LeftWall_36
 81 : CHANGE Salt_1270_202756_L_0 U-KP=3.404 LeftWall_36
 82 : CHANGE Salt_1270_202756_L_0 D-KA=0.39 LeftWall_36
 83 : CHANGE Pa_244788_244789_L_0 U-KA=0.481 LeftWall_36
 84 : CHANGE Pa_244788_244789_L_0 U-KP=3.601 LeftWall_36
 85 : CHANGE Pa_244788_244789_L_0 D-KA=0.376 LeftWall_36
 86 : SETWALL LeftWall_36
 87 : GEOM 339 339
 88 : SURCHARGE 0 0 0 0
 89 : WATER 337.47 -0.039326 324 0 0
 90 : ADD Pali1500_253215
 91 : ENDSTEP
 92 : STEP Scavofinale_252903
 93 : SETWALL LeftWall_36
 94 : GEOM 339 333
 95 : SURCHARGE 0 0 0 0
 96 : WATER 337.47 4.9732 324 0 0
 97 : ENDSTEP
 98 : STEP Sisma_284297
 99 : SETWALL LeftWall_36
100 : GEOM 339 333
101 : SURCHARGE 0 0 0 0
102 : WATER 337.47 4.9732 324 0 0
103 : CHANGE Aate_364268_2050_L_0 U-KAED=0.44088 LeftWall_36
104 : CHANGE Aate_364268_2050_L_0 U-KAEW=0.5814 LeftWall_36
105 : CHANGE Aate_364268_2050_L_0 U-KPED=4.441 LeftWall_36
106 : CHANGE Aate_364268_2050_L_0 U-KPEW=3.7963 LeftWall_36
107 : CHANGE Aate_364268_2050_L_0 D-KAED=0.39225 LeftWall_36
108 : CHANGE Aate_364268_2050_L_0 D-KAEW=0.54154 LeftWall_36
109 : CHANGE Aate_364268_2050_L_0 D-KPED=3.7685 LeftWall_36
110 : CHANGE Aate_364268_2050_L_0 D-KPEW=3.0916 LeftWall_36
111 : CHANGE Salt_1270_202756_L_0 U-KAED=0.7584 LeftWall_36
112 : CHANGE Salt_1270_202756_L_0 U-KAEW=1.1113 LeftWall_36
113 : CHANGE Salt_1270_202756_L_0 U-KPED=3.2803 LeftWall_36
114 : CHANGE Salt_1270_202756_L_0 U-KPEW=2.7847 LeftWall_36
115 : CHANGE Salt_1270_202756_L_0 D-KAED=0.46829 LeftWall_36
116 : CHANGE Salt_1270_202756_L_0 D-KAEW=0.625 LeftWall_36
117 : CHANGE Salt_1270_202756_L_0 D-KPED=2.7754 LeftWall_36
118 : CHANGE Salt_1270_202756_L_0 D-KPEW=2.2487 LeftWall_36
119 : CHANGE Pa_244788_244789_L_0 U-KAED=0.76054 LeftWall_36
120 : CHANGE Pa_244788_244789_L_0 U-KAEW=1.077 LeftWall_36
121 : CHANGE Pa_244788_244789_L_0 U-KPED=3.4777 LeftWall_36
122 : CHANGE Pa_244788_244789_L_0 U-KPEW=3.0819 LeftWall_36
123 : CHANGE Pa_244788_244789_L_0 D-KAED=0.45252 LeftWall_36
124 : CHANGE Pa_244788_244789_L_0 D-KAEW=0.56751 LeftWall_36
125 : CHANGE Pa_244788_244789_L_0 D-KPED=2.9451 LeftWall_36
126 : CHANGE Pa_244788_244789_L_0 D-KPEW=2.5269 LeftWall_36
127 : EQK USER 0.1454 0.0727 -0.0727 0 0.5 0 0.5 0 0
128 : DLOAD step LeftWall_36 333 12.65 339 12.65
129 : DLOAD step LeftWall_36 333 2.9198 339 2.9198
130 : ENDSTEP
```

N O D A L P O I N T D A T A

NODE	Y-COORD	Z-COORD	NODE	Y-COORD	Z-COORD	NODE	Y-COORD	Z-COORD	NODE	Y-COORD	Z-COORD
1	10.000	339.00	2	10.000	338.80	3	10.000	338.60	4	10.000	338.40
5	10.000	338.20	6	10.000	338.00	7	10.000	337.80	8	10.000	337.60
9	10.000	337.40	10	10.000	337.20	11	10.000	337.00	12	10.000	336.80
13	10.000	336.60	14	10.000	336.40	15	10.000	336.20	16	10.000	336.00
17	10.000	335.80	18	10.000	335.60	19	10.000	335.40	20	10.000	335.20
21	10.000	335.00	22	10.000	334.80	23	10.000	334.60	24	10.000	334.40
25	10.000	334.20	26	10.000	334.00	27	10.000	333.80	28	10.000	333.60
29	10.000	333.40	30	10.000	333.20	31	10.000	333.00	32	10.000	332.80
33	10.000	332.60	34	10.000	332.40	35	10.000	332.20	36	10.000	332.00
37	10.000	331.80	38	10.000	331.60	39	10.000	331.40	40	10.000	331.20
41	10.000	331.00	42	10.000	330.80	43	10.000	330.60	44	10.000	330.40
45	10.000	330.20	46	10.000	330.00	47	10.000	329.80	48	10.000	329.60
49	10.000	329.40	50	10.000	329.20	51	10.000	329.00	52	10.000	328.80
53	10.000	328.60	54	10.000	328.40	55	10.000	328.20	56	10.000	328.00
57	10.000	327.80	58	10.000	327.60	59	10.000	327.40	60	10.000	327.20
61	10.000	327.00	62	10.000	326.80	63	10.000	326.60	64	10.000	326.40
65	10.000	326.20	66	10.000	326.00	67	10.000	325.80	68	10.000	325.60
69	10.000	325.40	70	10.000	325.20	71	10.000	325.00	72	10.000	324.80
73	10.000	324.60	74	10.000	324.40	75	10.000	324.20	76	10.000	324.00

 ELEMENT GROUP NO. 1

0_L   :
   5 76   0   1   0   0   0   0   0   0   0   0   0   0   0   3   0   0   0   0
....
.....2D PLASTIC SOIL .....
....

element group behaviour throughout stage analysis

stage	status
1	active
2	active
3	active
4	active

 material set no.   1

 prop(1) angle   0.00000
 prop(2) layer as foreseen 1.00000

 material set no.   2

 prop(1) angle   0.00000
 prop(2) layer as foreseen 2.00000

 material set no.   3

 prop(1) angle   0.00000
 prop(2) layer as foreseen 3.00000

 element data

el	n	mat	area	.....	.....	.....	flag
1	1	1	0.1000	0.000	0.000	0.000	1.000
2	2	1	0.2000	0.000	0.000	0.000	1.000
3	3	1	0.2000	0.000	0.000	0.000	1.000
4	4	1	0.2000	0.000	0.000	0.000	1.000
5	5	1	0.2000	0.000	0.000	0.000	1.000
6	6	1	0.2000	0.000	0.000	0.000	1.000
7	7	1	0.2000	0.000	0.000	0.000	1.000
8	8	1	0.2000	0.000	0.000	0.000	1.000
9	9	1	0.2000	0.000	0.000	0.000	1.000
10	10	1	0.2000	0.000	0.000	0.000	1.000
11	11	1	0.2000	0.000	0.000	0.000	1.000
12	12	1	0.2000	0.000	0.000	0.000	1.000
13	13	1	0.2000	0.000	0.000	0.000	1.000
14	14	1	0.2000	0.000	0.000	0.000	1.000
15	15	1	0.2000	0.000	0.000	0.000	1.000
16	16	1	0.2000	0.000	0.000	0.000	1.000
17	17	1	0.2000	0.000	0.000	0.000	1.000
18	18	1	0.2000	0.000	0.000	0.000	1.000
19	19	1	0.2000	0.000	0.000	0.000	1.000
20	20	1	0.2000	0.000	0.000	0.000	1.000
21	21	2	0.2000	0.000	0.000	0.000	1.000
22	22	2	0.2000	0.000	0.000	0.000	1.000
23	23	2	0.2000	0.000	0.000	0.000	1.000
24	24	2	0.2000	0.000	0.000	0.000	1.000
25	25	2	0.2000	0.000	0.000	0.000	1.000
26	26	2	0.2000	0.000	0.000	0.000	1.000
27	27	2	0.2000	0.000	0.000	0.000	1.000
28	28	2	0.2000	0.000	0.000	0.000	1.000
29	29	2	0.2000	0.000	0.000	0.000	1.000
30	30	2	0.2000	0.000	0.000	0.000	1.000
31	31	2	0.2000	0.000	0.000	0.000	1.000
32	32	2	0.2000	0.000	0.000	0.000	1.000
33	33	2	0.2000	0.000	0.000	0.000	1.000
34	34	2	0.2000	0.000	0.000	0.000	1.000
35	35	2	0.2000	0.000	0.000	0.000	1.000
36	36	2	0.2000	0.000	0.000	0.000	1.000
37	37	2	0.2000	0.000	0.000	0.000	1.000
38	38	2	0.2000	0.000	0.000	0.000	1.000
39	39	2	0.2000	0.000	0.000	0.000	1.000
40	40	2	0.2000	0.000	0.000	0.000	1.000
41	41	3	0.2000	0.000	0.000	0.000	1.000
42	42	3	0.2000	0.000	0.000	0.000	1.000
43	43	3	0.2000	0.000	0.000	0.000	1.000

44	44	3	0.2000	0.000	0.000	0.000	1.000
45	45	3	0.2000	0.000	0.000	0.000	1.000
46	46	3	0.2000	0.000	0.000	0.000	1.000
47	47	3	0.2000	0.000	0.000	0.000	1.000
48	48	3	0.2000	0.000	0.000	0.000	1.000
49	49	3	0.2000	0.000	0.000	0.000	1.000
50	50	3	0.2000	0.000	0.000	0.000	1.000
51	51	3	0.2000	0.000	0.000	0.000	1.000
52	52	3	0.2000	0.000	0.000	0.000	1.000
53	53	3	0.2000	0.000	0.000	0.000	1.000
54	54	3	0.2000	0.000	0.000	0.000	1.000
55	55	3	0.2000	0.000	0.000	0.000	1.000
56	56	3	0.2000	0.000	0.000	0.000	1.000
57	57	3	0.2000	0.000	0.000	0.000	1.000
58	58	3	0.2000	0.000	0.000	0.000	1.000
59	59	3	0.2000	0.000	0.000	0.000	1.000
60	60	3	0.2000	0.000	0.000	0.000	1.000
61	61	3	0.2000	0.000	0.000	0.000	1.000
62	62	3	0.2000	0.000	0.000	0.000	1.000
63	63	3	0.2000	0.000	0.000	0.000	1.000
64	64	3	0.2000	0.000	0.000	0.000	1.000
65	65	3	0.2000	0.000	0.000	0.000	1.000
66	66	3	0.2000	0.000	0.000	0.000	1.000
67	67	3	0.2000	0.000	0.000	0.000	1.000
68	68	3	0.2000	0.000	0.000	0.000	1.000
69	69	3	0.2000	0.000	0.000	0.000	1.000
70	70	3	0.2000	0.000	0.000	0.000	1.000
71	71	3	0.2000	0.000	0.000	0.000	1.000
72	72	3	0.2000	0.000	0.000	0.000	1.000
73	73	3	0.2000	0.000	0.000	0.000	1.000
74	74	3	0.2000	0.000	0.000	0.000	1.000
75	75	3	0.2000	0.000	0.000	0.000	1.000
76	76	3	0.1000	0.000	0.000	0.000	1.000

```
 ELEMENT GROUP NO.  2

0_R                                                    :
   5  76   0   1   0   0   0   0   0   0   0   0   0   0   3   0   0   0   0
.....................................
..........2D PLASTIC SOIL ..........
.....................................
```

element group behaviour throughout stage analysis

stage	status
1	active
2	active
3	active
4	active

material set no. 1

prop(1) angle 180.000
prop(2) layer as foreseen 1.00000

material set no. 2

prop(1) angle 180.000
prop(2) layer as foreseen 2.00000

material set no. 3

prop(1) angle 180.000
prop(2) layer as foreseen 3.00000

element data

el	n	mat	area	.....	.....	.....	flag
1	1	1	0.1000	0.000	0.000	0.000	2.000
2	2	1	0.2000	0.000	0.000	0.000	2.000
3	3	1	0.2000	0.000	0.000	0.000	2.000
4	4	1	0.2000	0.000	0.000	0.000	2.000
5	5	1	0.2000	0.000	0.000	0.000	2.000
6	6	1	0.2000	0.000	0.000	0.000	2.000
7	7	1	0.2000	0.000	0.000	0.000	2.000
8	8	1	0.2000	0.000	0.000	0.000	2.000
9	9	1	0.2000	0.000	0.000	0.000	2.000
10	10	1	0.2000	0.000	0.000	0.000	2.000
11	11	1	0.2000	0.000	0.000	0.000	2.000
12	12	1	0.2000	0.000	0.000	0.000	2.000
13	13	1	0.2000	0.000	0.000	0.000	2.000
14	14	1	0.2000	0.000	0.000	0.000	2.000
15	15	1	0.2000	0.000	0.000	0.000	2.000
16	16	1	0.2000	0.000	0.000	0.000	2.000
17	17	1	0.2000	0.000	0.000	0.000	2.000
18	18	1	0.2000	0.000	0.000	0.000	2.000
19	19	1	0.2000	0.000	0.000	0.000	2.000
20	20	1	0.2000	0.000	0.000	0.000	2.000
21	21	2	0.2000	0.000	0.000	0.000	2.000
22	22	2	0.2000	0.000	0.000	0.000	2.000
23	23	2	0.2000	0.000	0.000	0.000	2.000
24	24	2	0.2000	0.000	0.000	0.000	2.000
25	25	2	0.2000	0.000	0.000	0.000	2.000
26	26	2	0.2000	0.000	0.000	0.000	2.000
27	27	2	0.2000	0.000	0.000	0.000	2.000
28	28	2	0.2000	0.000	0.000	0.000	2.000
29	29	2	0.2000	0.000	0.000	0.000	2.000
30	30	2	0.2000	0.000	0.000	0.000	2.000
31	31	2	0.2000	0.000	0.000	0.000	2.000
32	32	2	0.2000	0.000	0.000	0.000	2.000
33	33	2	0.2000	0.000	0.000	0.000	2.000
34	34	2	0.2000	0.000	0.000	0.000	2.000
35	35	2	0.2000	0.000	0.000	0.000	2.000
36	36	2	0.2000	0.000	0.000	0.000	2.000
37	37	2	0.2000	0.000	0.000	0.000	2.000
38	38	2	0.2000	0.000	0.000	0.000	2.000
39	39	2	0.2000	0.000	0.000	0.000	2.000
40	40	2	0.2000	0.000	0.000	0.000	2.000
41	41	3	0.2000	0.000	0.000	0.000	2.000
42	42	3	0.2000	0.000	0.000	0.000	2.000
43	43	3	0.2000	0.000	0.000	0.000	2.000

44	44	3	0.2000	0.000	0.000	0.000	2.000
45	45	3	0.2000	0.000	0.000	0.000	2.000
46	46	3	0.2000	0.000	0.000	0.000	2.000
47	47	3	0.2000	0.000	0.000	0.000	2.000
48	48	3	0.2000	0.000	0.000	0.000	2.000
49	49	3	0.2000	0.000	0.000	0.000	2.000
50	50	3	0.2000	0.000	0.000	0.000	2.000
51	51	3	0.2000	0.000	0.000	0.000	2.000
52	52	3	0.2000	0.000	0.000	0.000	2.000
53	53	3	0.2000	0.000	0.000	0.000	2.000
54	54	3	0.2000	0.000	0.000	0.000	2.000
55	55	3	0.2000	0.000	0.000	0.000	2.000
56	56	3	0.2000	0.000	0.000	0.000	2.000
57	57	3	0.2000	0.000	0.000	0.000	2.000
58	58	3	0.2000	0.000	0.000	0.000	2.000
59	59	3	0.2000	0.000	0.000	0.000	2.000
60	60	3	0.2000	0.000	0.000	0.000	2.000
61	61	3	0.2000	0.000	0.000	0.000	2.000
62	62	3	0.2000	0.000	0.000	0.000	2.000
63	63	3	0.2000	0.000	0.000	0.000	2.000
64	64	3	0.2000	0.000	0.000	0.000	2.000
65	65	3	0.2000	0.000	0.000	0.000	2.000
66	66	3	0.2000	0.000	0.000	0.000	2.000
67	67	3	0.2000	0.000	0.000	0.000	2.000
68	68	3	0.2000	0.000	0.000	0.000	2.000
69	69	3	0.2000	0.000	0.000	0.000	2.000
70	70	3	0.2000	0.000	0.000	0.000	2.000
71	71	3	0.2000	0.000	0.000	0.000	2.000
72	72	3	0.2000	0.000	0.000	0.000	2.000
73	73	3	0.2000	0.000	0.000	0.000	2.000
74	74	3	0.2000	0.000	0.000	0.000	2.000
75	75	3	0.2000	0.000	0.000	0.000	2.000
76	76	3	0.1000	0.000	0.000	0.000	2.000

ELEMENT GROUP NO. 3

Pali1500_253215 :

2 75 0 1 0 0 0 0 0 0 0 0 0 0 0 1 0 0 1 0

.....

.....2D WALL ELEMENT.....

.....

element group behaviour throughout stage analysis

stage	status
1	inactive
2	active
3	active
4	active

material set no. 1

prop(1) young modulus 0.333500E+08
prop(2) modification time 0.00000
prop(3) new young modulus 0.00000
prop(4) poisson ratio 0.00000
prop(5) future 0.00000

no. of step variable items: 1

step	inertia multipier
1	1.000
2	1.000
3	1.000
4	1.000

element data

el	na	nb	mat	erc1	erc2	thick	area	inertia	wgt(-z)	by-i	by-j
1	1	2	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
2	2	3	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
3	3	4	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
4	4	5	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
5	5	6	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
6	6	7	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
7	7	8	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
8	8	9	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
9	9	10	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
10	10	11	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
11	11	12	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
12	12	13	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
13	13	14	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
14	14	15	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
15	15	16	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
16	16	17	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
17	17	18	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
18	18	19	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
19	19	20	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
20	20	21	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
21	21	22	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
22	22	23	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
23	23	24	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
24	24	25	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
25	25	26	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
26	26	27	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
27	27	28	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
28	28	29	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
29	29	30	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
30	30	31	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
31	31	32	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
32	32	33	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
33	33	34	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
34	34	35	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
35	35	36	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
36	36	37	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
37	37	38	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
38	38	39	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
39	39	40	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
40	40	41	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
41	41	42	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
42	42	43	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
43	43	44	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
44	44	45	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
45	45	46	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000

46	46	47	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
47	47	48	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
48	48	49	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
49	49	50	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
50	50	51	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
51	51	52	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
52	52	53	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
53	53	54	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
54	54	55	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
55	55	56	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
56	56	57	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
57	57	58	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
58	58	59	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
59	59	60	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
60	60	61	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
61	61	62	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
62	62	63	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
63	63	64	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
64	64	65	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
65	65	66	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
66	66	67	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
67	67	68	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
68	68	69	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
69	69	70	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
70	70	71	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
71	71	72	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
72	72	73	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
73	73	74	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
74	74	75	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
75	75	76	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000

```
+-------------------------------------------------------------------------------------------------------------------------+
|                   PARATIEPLUS(TM)   NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*              |
|                                                                                                                         |
|                                                ParatiePlus                                                              |
|                                  Exe Time :28 January 2022   16:22:51                                                   |
+-------------------------------------------------------------------------------------------------------------------------+


NO. OF NODAL LOADS  (NLOAD) ...................    0
NO. OF LOAD CURVES  (NLCUR) ...................    8
MAXIMUM POINTS/LCURVE (NPTM)...................    5
```

L O A D D A T A

LOAD FUNCTION NUMBER = 1
NUMBER OF TIME POINTS = 5

TIME VALUE	FUNCTION
0.00000	0.0000E+00
0.80000	0.0000E+00
1.00000	0.1000E+01
1.20000	0.0000E+00
5.00000	0.0000E+00

LOAD FUNCTION NUMBER = 2
NUMBER OF TIME POINTS = 5

TIME VALUE	FUNCTION
0.00000	0.0000E+00
1.80000	0.0000E+00
2.00000	0.1000E+01
2.20000	0.0000E+00
5.00000	0.0000E+00

LOAD FUNCTION NUMBER = 3
NUMBER OF TIME POINTS = 5

TIME VALUE	FUNCTION
0.00000	0.0000E+00
2.80000	0.0000E+00
3.00000	0.1000E+01
3.20000	0.0000E+00
5.00000	0.0000E+00

LOAD FUNCTION NUMBER = 4
NUMBER OF TIME POINTS = 5

TIME VALUE	FUNCTION
0.00000	0.0000E+00
3.80000	0.0000E+00
4.00000	0.1000E+01
4.20000	0.0000E+00
5.00000	0.0000E+00

LOAD FUNCTION NUMBER = 5
NUMBER OF TIME POINTS = 4

TIME VALUE	FUNCTION
0.00000	0.0000E+00
0.80000	0.0000E+00
1.00000	0.1000E+01
5.00000	0.1000E+01

LOAD FUNCTION NUMBER = 6
NUMBER OF TIME POINTS = 4

TIME VALUE	FUNCTION
0.00000	0.0000E+00
1.80000	0.0000E+00
2.00000	0.1000E+01
5.00000	0.1000E+01

LOAD FUNCTION NUMBER = 7
NUMBER OF TIME POINTS = 4

TIME VALUE FUNCTION

0.00000 0.0000E+00
2.80000 0.0000E+00
3.00000 0.1000E+01
5.00000 0.1000E+01

LOAD FUNCTION NUMBER = 8
NUMBER OF TIME POINTS = 4

TIME VALUE FUNCTION

0.00000 0.0000E+00
3.80000 0.0000E+00
4.00000 0.1000E+01
5.00000 0.1000E+01

PROCESSING DISTRIBUTED LOADS CARD NO. 1
AT Y-COORD 10.00 Z-COORD 333.0 PRESSURE 12.65
Z-COORD 339.0 PRESSURE 12.65
L.CURVE 4

NO. OF GENERATED NODAL FORCES 30

NODE	Z-LVL	FORCE /	NODE	Z-LVL	FORCE /	NODE	Z-LVL	FORCE /
30	0.3332E+03	0.2549869E+01 /	29	0.3334E+03	0.2574166E+01 /	28	0.3336E+03	0.2573533E+01 /
27	0.3338E+03	0.2573533E+01 /	26	0.3340E+03	0.2573533E+01 /	25	0.3342E+03	0.2573533E+01 /
24	0.3344E+03	0.2573533E+01 /	23	0.3346E+03	0.2573533E+01 /	22	0.3348E+03	0.2574166E+01 /
21	0.3350E+03	0.2574166E+01 /	20	0.3352E+03	0.2573533E+01 /	19	0.3354E+03	0.2573533E+01 /
18	0.3356E+03	0.2573533E+01 /	17	0.3358E+03	0.2573533E+01 /	16	0.3360E+03	0.2573533E+01 /
15	0.3362E+03	0.2573533E+01 /	14	0.3364E+03	0.2574166E+01 /	13	0.3366E+03	0.2574166E+01 /
12	0.3368E+03	0.2573533E+01 /	11	0.3370E+03	0.2573533E+01 /	10	0.3372E+03	0.2573533E+01 /
9	0.3374E+03	0.2573533E+01 /	8	0.3376E+03	0.2573533E+01 /	7	0.3378E+03	0.2573533E+01 /
6	0.3380E+03	0.2574166E+01 /	5	0.3382E+03	0.2574166E+01 /	4	0.3384E+03	0.2573533E+01 /
3	0.3386E+03	0.2573533E+01 /	2	0.3388E+03	0.2573533E+01 /	1	0.3390E+03	0.1286767E+01 /

OVERALL APPLIED Y FORCE FOR CURRENT DISTRIBUTED LOAD 75.900

PROCESSING DISTRIBUTED LOADS CARD NO. 2
AT Y-COORD 10.00 Z-COORD 333.0 PRESSURE 2.920
Z-COORD 339.0 PRESSURE 2.920
L.CURVE 4

NO. OF GENERATED NODAL FORCES 30

NODE	Z-LVL	FORCE /	NODE	Z-LVL	FORCE /	NODE	Z-LVL	FORCE /
30	0.3332E+03	0.5885864E+00 /	29	0.3334E+03	0.5941948E+00 /	28	0.3336E+03	0.5940488E+00 /
27	0.3338E+03	0.5940488E+00 /	26	0.3340E+03	0.5940488E+00 /	25	0.3342E+03	0.5940488E+00 /
24	0.3344E+03	0.5940488E+00 /	23	0.3346E+03	0.5940488E+00 /	22	0.3348E+03	0.5941948E+00 /
21	0.3350E+03	0.5941948E+00 /	20	0.3352E+03	0.5940488E+00 /	19	0.3354E+03	0.5940488E+00 /
18	0.3356E+03	0.5940488E+00 /	17	0.3358E+03	0.5940488E+00 /	16	0.3360E+03	0.5940488E+00 /
15	0.3362E+03	0.5940488E+00 /	14	0.3364E+03	0.5941948E+00 /	13	0.3366E+03	0.5941948E+00 /
12	0.3368E+03	0.5940488E+00 /	11	0.3370E+03	0.5940488E+00 /	10	0.3372E+03	0.5940488E+00 /
9	0.3374E+03	0.5940488E+00 /	8	0.3376E+03	0.5940488E+00 /	7	0.3378E+03	0.5940488E+00 /
6	0.3380E+03	0.5941948E+00 /	5	0.3382E+03	0.5941948E+00 /	4	0.3384E+03	0.5940488E+00 /
3	0.3386E+03	0.5940488E+00 /	2	0.3388E+03	0.5940488E+00 /	1	0.3390E+03	0.2970244E+00 /

OVERALL APPLIED Y FORCE FOR CURRENT DISTRIBUTED LOAD 17.520

NO. OF DISTRIBUTED LOAD CARDS 2

L O A D B A L A N C E

STEP 1 TOTAL APPLIED LOAD IN DIR. 2 Y-DISPL.F 0.0000000
STEP 1 TOTAL APPLIED LOAD IN DIR. 4 X-ROT. F 0.0000000

STEP 2 TOTAL APPLIED LOAD IN DIR. 2 Y-DISPL.F 0.0000000
STEP 2 TOTAL APPLIED LOAD IN DIR. 4 X-ROT. F 0.0000000

STEP 3 TOTAL APPLIED LOAD IN DIR. 2 Y-DISPL.F 0.0000000
STEP 3 TOTAL APPLIED LOAD IN DIR. 4 X-ROT. F 0.0000000

STEP 4 TOTAL APPLIED LOAD IN DIR. 2 Y-DISPL.F 93.420000
STEP 4 TOTAL APPLIED LOAD IN DIR. 4 X-ROT. F 0.0000000

LOAD INPUT SECTION COMPLETED

```
+-------------------------------------------------------------------------------------------------------------------------+
|                  PARATIEPLUS(TM)   NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*              |
|                                                                                                                         |
|                                                ParatiePlus                                                              |
|                                Exe Time :28 January 2022   16:22:51                                                     |
+-------------------------------------------------------------------------------------------------------------------------+


NO. OF LAYERS ..............................    3
NO. OF DATA PER LAYER.......................  160
```

LAYER DESCRIPTORS FOR STEP NO. 1

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 1 FOR STEP NO. 1

ITEM NO. 1<NAME >= 12.000 (BOTH WALLS)
ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
ITEM NO. 3<LEVEL >= 343.00 (BOTH WALLS)
ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)
ITEM NO. 5<GAMMAD >= 19.000 (BOTH WALLS)
ITEM NO. 6<GAMMAB >= 9.0000 (BOTH WALLS)
ITEM NO. 7<GAMMAW >= 10.000 (BOTH WALLS)
ITEM NO. 8<U-COHE >= 10.000 (BOTH WALLS)
ITEM NO. 9<U-FRICT >= 31.000 (BOTH WALLS)
ITEM NO. 10<U-KA >= 0.30300 WALL NO. 1
ITEM NO. 11<U-KP >= 3.8030 WALL NO. 1
ITEM NO. 12<K0-NC >= 0.50000 (BOTH WALLS)
ITEM NO. 13<NEXP >= 0.50000 (BOTH WALLS)
ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)
ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)
ITEM NO. 17<EVC >= 40000. (BOTH WALLS)
ITEM NO. 18<EUR >= 0.12000E+06 (BOTH WALLS)
ITEM NO. 27<U-PERM >= 0.10000E-04 (BOTH WALLS)
ITEM NO. 58<U-TZKZ >= 10000. (BOTH WALLS)
ITEM NO. 60<U-TZDELT>= 25.000 (BOTH WALLS)
ITEM NO. 61<U-TZALPH>= 0.50000 (BOTH WALLS)
ITEM NO. 82<D-NATURE>= 1.0000 (BOTH WALLS)
ITEM NO. 83<D-LEVEL >= 343.00 (BOTH WALLS)
ITEM NO. 88<D-COHE >= 10.000 (BOTH WALLS)
ITEM NO. 89<D-FRICT >= 31.000 (BOTH WALLS)
ITEM NO. 90<D-KA >= 0.34000 WALL NO. 1
ITEM NO. 91<D-KP >= 4.5550 WALL NO. 1
ITEM NO. 107<D-PERM >= 0.10000E-04 (BOTH WALLS)
ITEM NO. 138<D-TZKZ >= 10000. (BOTH WALLS)
ITEM NO. 140<D-TZDELT>= 25.000 (BOTH WALLS)
ITEM NO. 141<D-TZALPH>= 0.50000 (BOTH WALLS)

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 2 FOR STEP NO. 1

ITEM NO. 1<NAME >= 13.000 (BOTH WALLS)
ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
ITEM NO. 3<LEVEL >= 335.00 (BOTH WALLS)
ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)
ITEM NO. 5<GAMMAD >= 20.000 (BOTH WALLS)
ITEM NO. 6<GAMMAB >= 10.000 (BOTH WALLS)
ITEM NO. 7<GAMMAW >= 10.000 (BOTH WALLS)
ITEM NO. 8<U-COHE >= 10.000 (BOTH WALLS)
ITEM NO. 9<U-FRICT >= 26.000 (BOTH WALLS)
ITEM NO. 10<U-KA >= 0.36800 WALL NO. 1
ITEM NO. 11<U-KP >= 2.8670 WALL NO. 1
ITEM NO. 12<K0-NC >= 0.56200 (BOTH WALLS)
ITEM NO. 13<NEXP >= 0.50000 (BOTH WALLS)
ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)
ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)
ITEM NO. 17<EVC >= 0.20000E+06 (BOTH WALLS)
ITEM NO. 18<EUR >= 0.60000E+06 (BOTH WALLS)
ITEM NO. 27<U-PERM >= 0.10000E-04 (BOTH WALLS)
ITEM NO. 58<U-TZKZ >= 10000. (BOTH WALLS)
ITEM NO. 60<U-TZDELT>= 25.000 (BOTH WALLS)
ITEM NO. 61<U-TZALPH>= 0.50000 (BOTH WALLS)
ITEM NO. 82<D-NATURE>= 1.0000 (BOTH WALLS)
ITEM NO. 83<D-LEVEL >= 0.0000 (BOTH WALLS)
ITEM NO. 88<D-COHE >= 10.000 (BOTH WALLS)
ITEM NO. 89<D-FRICT >= 26.000 (BOTH WALLS)
ITEM NO. 90<D-KA >= 0.41800 WALL NO. 1
ITEM NO. 91<D-KP >= 3.4040 WALL NO. 1
ITEM NO. 107<D-PERM >= 0.10000E-04 (BOTH WALLS)
ITEM NO. 138<D-TZKZ >= 10000. (BOTH WALLS)
ITEM NO. 140<D-TZDELT>= 25.000 (BOTH WALLS)
ITEM NO. 141<D-TZALPH>= 0.50000 (BOTH WALLS)

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 3 FOR STEP NO. 1

ITEM NO. 1<NAME >= 14.000 (BOTH WALLS)
ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
ITEM NO. 3<LEVEL >= 331.00 (BOTH WALLS)
ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)
ITEM NO. 5<GAMMAD >= 22.500 (BOTH WALLS)
ITEM NO. 6<GAMMAB >= 12.500 (BOTH WALLS)
ITEM NO. 7<GAMMAW >= 10.000 (BOTH WALLS)
ITEM NO. 8<U-COHE >= 50.000 (BOTH WALLS)
ITEM NO. 9<U-FRICT >= 27.000 (BOTH WALLS)

ITEM NO. 10<U-KA   >= 0.35500   WALL NO.   1
ITEM NO. 11<U-KP   >= 2.9980   WALL NO.   1
ITEM NO. 12<K0-NC   >= 0.50000   (BOTH WALLS)
ITEM NO. 13<NEXP   >= 0.50000   (BOTH WALLS)
ITEM NO. 14<OCR   >= 1.0000   (BOTH WALLS)
ITEM NO. 16<MODEL   >= 1.0000   (BOTH WALLS)
ITEM NO. 17<EVC   >= 0.10000E+06 (BOTH WALLS)
ITEM NO. 18<EUR   >= 0.30000E+06 (BOTH WALLS)
ITEM NO. 27<U-PERM >= 0.10000E-03 (BOTH WALLS)
ITEM NO. 58<U-TZKZ >= 20000.   (BOTH WALLS)
ITEM NO. 60<U-TZDELT>= 30.000   (BOTH WALLS)
ITEM NO. 61<U-TZALPH>= 0.50000   (BOTH WALLS)
ITEM NO. 82<D-NATURE>= 1.0000   (BOTH WALLS)
ITEM NO. 83<D-LEVEL >= 0.0000   (BOTH WALLS)
ITEM NO. 88<D-COHE >= 50.000   (BOTH WALLS)
ITEM NO. 89<D-FRICT >= 27.000   (BOTH WALLS)
ITEM NO. 90<D-KA   >= 0.40100   WALL NO.   1
ITEM NO. 91<D-KP   >= 3.6010   WALL NO.   1
ITEM NO. 107<D-PERM >= 0.10000E-03 (BOTH WALLS)
ITEM NO. 138<D-TZKZ >= 20000.   (BOTH WALLS)
ITEM NO. 140<D-TZDELT>= 30.000   (BOTH WALLS)
ITEM NO. 141<D-TZALPH>= 0.50000   (BOTH WALLS)

LAYER DESCRIPTORS FOR STEP NO.   2

 NON ZERO LAYER DESCRIPTORS FOR LAYER NO.   1 FOR STEP NO.   2

ITEM NO.   1<NAME   >= 12.000   (BOTH WALLS)
ITEM NO.   2<NATURE >= 1.0000   (BOTH WALLS)
ITEM NO.   3<LEVEL   >= 343.00   (BOTH WALLS)
ITEM NO.   4<WALL   >= 1.0000   (BOTH WALLS)
ITEM NO.   5<GAMMAD >= 19.000   (BOTH WALLS)
ITEM NO.   6<GAMMAB >= 9.0000   (BOTH WALLS)
ITEM NO.   7<GAMMAW >= 10.000   (BOTH WALLS)
ITEM NO.   8<U-COHE >= 10.000   (BOTH WALLS)
ITEM NO.   9<U-FRICT >= 31.000   (BOTH WALLS)
ITEM NO. 10<U-KA   >= 0.32200   WALL NO.   1
ITEM NO. 11<U-KP   >= 4.5550   WALL NO.   1
ITEM NO. 12<K0-NC   >= 0.50000   (BOTH WALLS)
ITEM NO. 13<NEXP   >= 0.50000   (BOTH WALLS)
ITEM NO. 14<OCR   >= 1.0000   (BOTH WALLS)
ITEM NO. 16<MODEL   >= 1.0000   (BOTH WALLS)
ITEM NO. 17<EVC   >= 40000.   (BOTH WALLS)
ITEM NO. 18<EUR   >= 0.12000E+06 (BOTH WALLS)
ITEM NO. 27<U-PERM >= 0.10000E-04 (BOTH WALLS)
ITEM NO. 58<U-TZKZ >= 10000.   (BOTH WALLS)
ITEM NO. 60<U-TZDELT>= 25.000   (BOTH WALLS)
ITEM NO. 61<U-TZALPH>= 0.50000   (BOTH WALLS)
ITEM NO. 82<D-NATURE>= 1.0000   (BOTH WALLS)
ITEM NO. 83<D-LEVEL >= 343.00   (BOTH WALLS)
ITEM NO. 88<D-COHE >= 10.000   (BOTH WALLS)
ITEM NO. 89<D-FRICT >= 31.000   (BOTH WALLS)
ITEM NO. 90<D-KA   >= 0.32000   WALL NO.   1
ITEM NO. 91<D-KP   >= 4.5550   WALL NO.   1
ITEM NO. 107<D-PERM >= 0.10000E-04 (BOTH WALLS)
ITEM NO. 138<D-TZKZ >= 10000.   (BOTH WALLS)
ITEM NO. 140<D-TZDELT>= 25.000   (BOTH WALLS)
ITEM NO. 141<D-TZALPH>= 0.50000   (BOTH WALLS)

 NON ZERO LAYER DESCRIPTORS FOR LAYER NO.   2 FOR STEP NO.   2

ITEM NO.   1<NAME   >= 13.000   (BOTH WALLS)
ITEM NO.   2<NATURE >= 1.0000   (BOTH WALLS)
ITEM NO.   3<LEVEL   >= 335.00   (BOTH WALLS)
ITEM NO.   4<WALL   >= 1.0000   (BOTH WALLS)
ITEM NO.   5<GAMMAD >= 20.000   (BOTH WALLS)
ITEM NO.   6<GAMMAB >= 10.000   (BOTH WALLS)
ITEM NO.   7<GAMMAW >= 10.000   (BOTH WALLS)
ITEM NO.   8<U-COHE >= 10.000   (BOTH WALLS)
ITEM NO.   9<U-FRICT >= 26.000   (BOTH WALLS)
ITEM NO. 10<U-KA   >= 0.49100   WALL NO.   1
ITEM NO. 11<U-KP   >= 3.4040   WALL NO.   1
ITEM NO. 12<K0-NC   >= 0.56200   (BOTH WALLS)
ITEM NO. 13<NEXP   >= 0.50000   (BOTH WALLS)
ITEM NO. 14<OCR   >= 1.0000   (BOTH WALLS)
ITEM NO. 16<MODEL   >= 1.0000   (BOTH WALLS)
ITEM NO. 17<EVC   >= 0.20000E+06 (BOTH WALLS)
ITEM NO. 18<EUR   >= 0.60000E+06 (BOTH WALLS)
ITEM NO. 27<U-PERM >= 0.10000E-04 (BOTH WALLS)
ITEM NO. 58<U-TZKZ >= 10000.   (BOTH WALLS)
ITEM NO. 60<U-TZDELT>= 25.000   (BOTH WALLS)
ITEM NO. 61<U-TZALPH>= 0.50000   (BOTH WALLS)
ITEM NO. 82<D-NATURE>= 1.0000   (BOTH WALLS)
ITEM NO. 83<D-LEVEL >= 0.0000   (BOTH WALLS)
ITEM NO. 88<D-COHE >= 10.000   (BOTH WALLS)
ITEM NO. 89<D-FRICT >= 26.000   (BOTH WALLS)
ITEM NO. 90<D-KA   >= 0.39000   WALL NO.   1
ITEM NO. 91<D-KP   >= 3.4040   WALL NO.   1
ITEM NO. 107<D-PERM >= 0.10000E-04 (BOTH WALLS)
ITEM NO. 138<D-TZKZ >= 10000.   (BOTH WALLS)
ITEM NO. 140<D-TZDELT>= 25.000   (BOTH WALLS)

ITEM NO. 141<D-TZALPH>= 0.50000 (BOTH WALLS)

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 3 FOR STEP NO. 2

ITEM NO. 1<NAME >= 14.000 (BOTH WALLS)
ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
ITEM NO. 3<LEVEL >= 331.00 (BOTH WALLS)
ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)
ITEM NO. 5<GAMMAD >= 22.500 (BOTH WALLS)
ITEM NO. 6<GAMMAB >= 12.500 (BOTH WALLS)
ITEM NO. 7<GAMMAW >= 10.000 (BOTH WALLS)
ITEM NO. 8<U-COHE >= 50.000 (BOTH WALLS)
ITEM NO. 9<U-FRICT >= 27.000 (BOTH WALLS)
ITEM NO. 10<U-KA >= 0.48100 WALL NO. 1
ITEM NO. 11<U-KP >= 3.6010 WALL NO. 1
ITEM NO. 12<K0-NC >= 0.50000 (BOTH WALLS)
ITEM NO. 13<NEXP >= 0.50000 (BOTH WALLS)
ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)
ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)
ITEM NO. 17<EVC >= 0.10000E+06 (BOTH WALLS)
ITEM NO. 18<EUR >= 0.30000E+06 (BOTH WALLS)
ITEM NO. 27<U-PERM >= 0.10000E-03 (BOTH WALLS)
ITEM NO. 58<U-TZKZ >= 20000. (BOTH WALLS)
ITEM NO. 60<U-TZDELT>= 30.000 (BOTH WALLS)
ITEM NO. 61<U-TZALPH>= 0.50000 (BOTH WALLS)
ITEM NO. 82<D-NATURE>= 1.0000 (BOTH WALLS)
ITEM NO. 83<D-LEVEL >= 0.0000 (BOTH WALLS)
ITEM NO. 88<D-COHE >= 50.000 (BOTH WALLS)
ITEM NO. 89<D-FRICT >= 27.000 (BOTH WALLS)
ITEM NO. 90<D-KA >= 0.37600 WALL NO. 1
ITEM NO. 91<D-KP >= 3.6010 WALL NO. 1
ITEM NO. 107<D-PERM >= 0.10000E-03 (BOTH WALLS)
ITEM NO. 138<D-TZKZ >= 20000. (BOTH WALLS)
ITEM NO. 140<D-TZDELT>= 30.000 (BOTH WALLS)
ITEM NO. 141<D-TZALPH>= 0.50000 (BOTH WALLS)

LAYER DESCRIPTORS FOR STEP NO. 3

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 1 FOR STEP NO. 3

ITEM NO. 1<NAME >= 12.000 (BOTH WALLS)
ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
ITEM NO. 3<LEVEL >= 343.00 (BOTH WALLS)
ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)
ITEM NO. 5<GAMMAD >= 19.000 (BOTH WALLS)
ITEM NO. 6<GAMMAB >= 9.0000 (BOTH WALLS)
ITEM NO. 7<GAMMAW >= 10.000 (BOTH WALLS)
ITEM NO. 8<U-COHE >= 10.000 (BOTH WALLS)
ITEM NO. 9<U-FRICT >= 31.000 (BOTH WALLS)
ITEM NO. 10<U-KA >= 0.32200 WALL NO. 1
ITEM NO. 11<U-KP >= 4.5550 WALL NO. 1
ITEM NO. 12<K0-NC >= 0.50000 (BOTH WALLS)
ITEM NO. 13<NEXP >= 0.50000 (BOTH WALLS)
ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)
ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)
ITEM NO. 17<EVC >= 40000. (BOTH WALLS)
ITEM NO. 18<EUR >= 0.12000E+06 (BOTH WALLS)
ITEM NO. 27<U-PERM >= 0.10000E-04 (BOTH WALLS)
ITEM NO. 58<U-TZKZ >= 10000. (BOTH WALLS)
ITEM NO. 60<U-TZDELT>= 25.000 (BOTH WALLS)
ITEM NO. 61<U-TZALPH>= 0.50000 (BOTH WALLS)
ITEM NO. 82<D-NATURE>= 1.0000 (BOTH WALLS)
ITEM NO. 83<D-LEVEL >= 343.00 (BOTH WALLS)
ITEM NO. 88<D-COHE >= 10.000 (BOTH WALLS)
ITEM NO. 89<D-FRICT >= 31.000 (BOTH WALLS)
ITEM NO. 90<D-KA >= 0.32000 WALL NO. 1
ITEM NO. 91<D-KP >= 4.5550 WALL NO. 1
ITEM NO. 107<D-PERM >= 0.10000E-04 (BOTH WALLS)
ITEM NO. 138<D-TZKZ >= 10000. (BOTH WALLS)
ITEM NO. 140<D-TZDELT>= 25.000 (BOTH WALLS)
ITEM NO. 141<D-TZALPH>= 0.50000 (BOTH WALLS)

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 2 FOR STEP NO. 3

ITEM NO. 1<NAME >= 13.000 (BOTH WALLS)
ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
ITEM NO. 3<LEVEL >= 335.00 (BOTH WALLS)
ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)
ITEM NO. 5<GAMMAD >= 20.000 (BOTH WALLS)
ITEM NO. 6<GAMMAB >= 10.000 (BOTH WALLS)
ITEM NO. 7<GAMMAW >= 10.000 (BOTH WALLS)
ITEM NO. 8<U-COHE >= 10.000 (BOTH WALLS)
ITEM NO. 9<U-FRICT >= 26.000 (BOTH WALLS)
ITEM NO. 10<U-KA >= 0.49100 WALL NO. 1
ITEM NO. 11<U-KP >= 3.4040 WALL NO. 1
ITEM NO. 12<K0-NC >= 0.56200 (BOTH WALLS)
ITEM NO. 13<NEXP >= 0.50000 (BOTH WALLS)
ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)
ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)
ITEM NO. 17<EVC >= 0.20000E+06 (BOTH WALLS)
ITEM NO. 18<EUR >= 0.60000E+06 (BOTH WALLS)

ITEM NO. 27<U-PERM >= 0.10000E-04 (BOTH WALLS)
ITEM NO. 58<U-TZKZ >= 10000.   (BOTH WALLS)
ITEM NO. 60<U-TZDELT>= 25.000   (BOTH WALLS)
ITEM NO. 61<U-TZALPH>= 0.50000   (BOTH WALLS)
ITEM NO. 82<D-NATURE>= 1.0000   (BOTH WALLS)
ITEM NO. 83<D-LEVEL >= 0.0000   (BOTH WALLS)
ITEM NO. 88<D-COHE >= 10.000   (BOTH WALLS)
ITEM NO. 89<D-FRICT >= 26.000   (BOTH WALLS)
ITEM NO. 90<D-KA   >= 0.39000   WALL NO.   1
ITEM NO. 91<D-KP   >= 3.4040   WALL NO.   1
ITEM NO. 107<D-PERM >= 0.10000E-04 (BOTH WALLS)
ITEM NO. 138<D-TZKZ >= 10000.   (BOTH WALLS)
ITEM NO. 140<D-TZDELT>= 25.000   (BOTH WALLS)
ITEM NO. 141<D-TZALPH>= 0.50000   (BOTH WALLS)

 NON ZERO LAYER DESCRIPTORS FOR LAYER NO.   3 FOR STEP NO.   3

ITEM NO.   1<NAME   >= 14.000   (BOTH WALLS)
ITEM NO.   2<NATURE >= 1.0000   (BOTH WALLS)
ITEM NO.   3<LEVEL   >= 331.00   (BOTH WALLS)
ITEM NO.   4<WALL   >= 1.0000   (BOTH WALLS)
ITEM NO.   5<GAMMAD >= 22.500   (BOTH WALLS)
ITEM NO.   6<GAMMAB >= 12.500   (BOTH WALLS)
ITEM NO.   7<GAMMAW >= 10.000   (BOTH WALLS)
ITEM NO.   8<U-COHE >= 50.000   (BOTH WALLS)
ITEM NO.   9<U-FRICT >= 27.000   (BOTH WALLS)
ITEM NO. 10<U-KA   >= 0.48100   WALL NO.   1
ITEM NO. 11<U-KP   >= 3.6010   WALL NO.   1
ITEM NO. 12<K0-NC   >= 0.50000   (BOTH WALLS)
ITEM NO. 13<NEXP   >= 0.50000   (BOTH WALLS)
ITEM NO. 14<OCR   >= 1.0000   (BOTH WALLS)
ITEM NO. 16<MODEL   >= 1.0000   (BOTH WALLS)
ITEM NO. 17<EVC   >= 0.10000E+06 (BOTH WALLS)
ITEM NO. 18<EUR   >= 0.30000E+06 (BOTH WALLS)
ITEM NO. 27<U-PERM >= 0.10000E-03 (BOTH WALLS)
ITEM NO. 58<U-TZKZ >= 20000.   (BOTH WALLS)
ITEM NO. 60<U-TZDELT>= 30.000   (BOTH WALLS)
ITEM NO. 61<U-TZALPH>= 0.50000   (BOTH WALLS)
ITEM NO. 82<D-NATURE>= 1.0000   (BOTH WALLS)
ITEM NO. 83<D-LEVEL >= 0.0000   (BOTH WALLS)
ITEM NO. 88<D-COHE >= 50.000   (BOTH WALLS)
ITEM NO. 89<D-FRICT >= 27.000   (BOTH WALLS)
ITEM NO. 90<D-KA   >= 0.37600   WALL NO.   1
ITEM NO. 91<D-KP   >= 3.6010   WALL NO.   1
ITEM NO. 107<D-PERM >= 0.10000E-03 (BOTH WALLS)
ITEM NO. 138<D-TZKZ >= 20000.   (BOTH WALLS)
ITEM NO. 140<D-TZDELT>= 30.000   (BOTH WALLS)
ITEM NO. 141<D-TZALPH>= 0.50000   (BOTH WALLS)

LAYER DESCRIPTORS FOR STEP NO.   4

 NON ZERO LAYER DESCRIPTORS FOR LAYER NO.   1 FOR STEP NO.   4

ITEM NO.   1<NAME   >= 12.000   (BOTH WALLS)
ITEM NO.   2<NATURE >= 1.0000   (BOTH WALLS)
ITEM NO.   3<LEVEL   >= 343.00   (BOTH WALLS)
ITEM NO.   4<WALL   >= 1.0000   (BOTH WALLS)
ITEM NO.   5<GAMMAD >= 19.000   (BOTH WALLS)
ITEM NO.   6<GAMMAB >= 9.0000   (BOTH WALLS)
ITEM NO.   7<GAMMAW >= 10.000   (BOTH WALLS)
ITEM NO.   8<U-COHE >= 10.000   (BOTH WALLS)
ITEM NO.   9<U-FRICT >= 31.000   (BOTH WALLS)
ITEM NO. 10<U-KA   >= 0.32200   WALL NO.   1
ITEM NO. 11<U-KP   >= 4.5550   WALL NO.   1
ITEM NO. 12<K0-NC   >= 0.50000   (BOTH WALLS)
ITEM NO. 13<NEXP   >= 0.50000   (BOTH WALLS)
ITEM NO. 14<OCR   >= 1.0000   (BOTH WALLS)
ITEM NO. 16<MODEL   >= 1.0000   (BOTH WALLS)
ITEM NO. 17<EVC   >= 40000.   (BOTH WALLS)
ITEM NO. 18<EUR   >= 0.12000E+06 (BOTH WALLS)
ITEM NO. 27<U-PERM >= 0.10000E-04 (BOTH WALLS)
ITEM NO. 47<U-KAED >= 0.44088   WALL NO.   1
ITEM NO. 48<U-KAEW >= 0.58140   WALL NO.   1
ITEM NO. 49<U-KPED >= 4.4410   WALL NO.   1
ITEM NO. 50<U-KPEW >= 3.7963   WALL NO.   1
ITEM NO. 58<U-TZKZ >= 10000.   (BOTH WALLS)
ITEM NO. 60<U-TZDELT>= 25.000   (BOTH WALLS)
ITEM NO. 61<U-TZALPH>= 0.50000   (BOTH WALLS)
ITEM NO. 82<D-NATURE>= 1.0000   (BOTH WALLS)
ITEM NO. 83<D-LEVEL >= 343.00   (BOTH WALLS)
ITEM NO. 88<D-COHE >= 10.000   (BOTH WALLS)
ITEM NO. 89<D-FRICT >= 31.000   (BOTH WALLS)
ITEM NO. 90<D-KA   >= 0.32000   WALL NO.   1
ITEM NO. 91<D-KP   >= 4.5550   WALL NO.   1
ITEM NO. 107<D-PERM >= 0.10000E-04 (BOTH WALLS)
ITEM NO. 127<D-KAED >= 0.39225   WALL NO.   1
ITEM NO. 128<D-KAEW >= 0.54154   WALL NO.   1
ITEM NO. 129<D-KPED >= 3.7685   WALL NO.   1
ITEM NO. 130<D-KPEW >= 3.0916   WALL NO.   1
ITEM NO. 138<D-TZKZ >= 10000.   (BOTH WALLS)
ITEM NO. 140<D-TZDELT>= 25.000   (BOTH WALLS)

ITEM NO. 141<D-TZALPH>= 0.50000 (BOTH WALLS)

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 2 FOR STEP NO. 4

ITEM NO. 1<NAME >= 13.000 (BOTH WALLS)
ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
ITEM NO. 3<LEVEL >= 335.00 (BOTH WALLS)
ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)
ITEM NO. 5<GAMMAD >= 20.000 (BOTH WALLS)
ITEM NO. 6<GAMMAB >= 10.000 (BOTH WALLS)
ITEM NO. 7<GAMMAW >= 10.000 (BOTH WALLS)
ITEM NO. 8<U-COHE >= 10.000 (BOTH WALLS)
ITEM NO. 9<U-FRICT >= 26.000 (BOTH WALLS)
ITEM NO. 10<U-KA >= 0.49100 WALL NO. 1
ITEM NO. 11<U-KP >= 3.4040 WALL NO. 1
ITEM NO. 12<K0-NC >= 0.56200 (BOTH WALLS)
ITEM NO. 13<NEXP >= 0.50000 (BOTH WALLS)
ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)
ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)
ITEM NO. 17<EVC >= 0.20000E+06 (BOTH WALLS)
ITEM NO. 18<EUR >= 0.60000E+06 (BOTH WALLS)
ITEM NO. 27<U-PERM >= 0.10000E-04 (BOTH WALLS)
ITEM NO. 47<U-KAED >= 0.75840 WALL NO. 1
ITEM NO. 48<U-KAEW >= 1.1113 WALL NO. 1
ITEM NO. 49<U-KPED >= 3.2803 WALL NO. 1
ITEM NO. 50<U-KPEW >= 2.7847 WALL NO. 1
ITEM NO. 58<U-TZKZ >= 10000. (BOTH WALLS)
ITEM NO. 60<U-TZDELT>= 25.000 (BOTH WALLS)
ITEM NO. 61<U-TZALPH>= 0.50000 (BOTH WALLS)
ITEM NO. 82<D-NATURE>= 1.0000 (BOTH WALLS)
ITEM NO. 83<D-LEVEL >= 0.0000 (BOTH WALLS)
ITEM NO. 88<D-COHE >= 10.000 (BOTH WALLS)
ITEM NO. 89<D-FRICT >= 26.000 (BOTH WALLS)
ITEM NO. 90<D-KA >= 0.39000 WALL NO. 1
ITEM NO. 91<D-KP >= 3.4040 WALL NO. 1
ITEM NO. 107<D-PERM >= 0.10000E-04 (BOTH WALLS)
ITEM NO. 127<D-KAED >= 0.46829 WALL NO. 1
ITEM NO. 128<D-KAEW >= 0.62500 WALL NO. 1
ITEM NO. 129<D-KPED >= 2.7754 WALL NO. 1
ITEM NO. 130<D-KPEW >= 2.2487 WALL NO. 1
ITEM NO. 138<D-TZKZ >= 10000. (BOTH WALLS)
ITEM NO. 140<D-TZDELT>= 25.000 (BOTH WALLS)
ITEM NO. 141<D-TZALPH>= 0.50000 (BOTH WALLS)

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 3 FOR STEP NO. 4

ITEM NO. 1<NAME >= 14.000 (BOTH WALLS)
ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
ITEM NO. 3<LEVEL >= 331.00 (BOTH WALLS)
ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)
ITEM NO. 5<GAMMAD >= 22.500 (BOTH WALLS)
ITEM NO. 6<GAMMAB >= 12.500 (BOTH WALLS)
ITEM NO. 7<GAMMAW >= 10.000 (BOTH WALLS)
ITEM NO. 8<U-COHE >= 50.000 (BOTH WALLS)
ITEM NO. 9<U-FRICT >= 27.000 (BOTH WALLS)
ITEM NO. 10<U-KA >= 0.48100 WALL NO. 1
ITEM NO. 11<U-KP >= 3.6010 WALL NO. 1
ITEM NO. 12<K0-NC >= 0.50000 (BOTH WALLS)
ITEM NO. 13<NEXP >= 0.50000 (BOTH WALLS)
ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)
ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)
ITEM NO. 17<EVC >= 0.10000E+06 (BOTH WALLS)
ITEM NO. 18<EUR >= 0.30000E+06 (BOTH WALLS)
ITEM NO. 27<U-PERM >= 0.10000E-03 (BOTH WALLS)
ITEM NO. 47<U-KAED >= 0.76054 WALL NO. 1
ITEM NO. 48<U-KAEW >= 1.0770 WALL NO. 1
ITEM NO. 49<U-KPED >= 3.4777 WALL NO. 1
ITEM NO. 50<U-KPEW >= 3.0819 WALL NO. 1
ITEM NO. 58<U-TZKZ >= 20000. (BOTH WALLS)
ITEM NO. 60<U-TZDELT>= 30.000 (BOTH WALLS)
ITEM NO. 61<U-TZALPH>= 0.50000 (BOTH WALLS)
ITEM NO. 82<D-NATURE>= 1.0000 (BOTH WALLS)
ITEM NO. 83<D-LEVEL >= 0.0000 (BOTH WALLS)
ITEM NO. 88<D-COHE >= 50.000 (BOTH WALLS)
ITEM NO. 89<D-FRICT >= 27.000 (BOTH WALLS)
ITEM NO. 90<D-KA >= 0.37600 WALL NO. 1
ITEM NO. 91<D-KP >= 3.6010 WALL NO. 1
ITEM NO. 107<D-PERM >= 0.10000E-03 (BOTH WALLS)
ITEM NO. 127<D-KAED >= 0.45252 WALL NO. 1
ITEM NO. 128<D-KAEW >= 0.56751 WALL NO. 1
ITEM NO. 129<D-KPED >= 2.9451 WALL NO. 1
ITEM NO. 130<D-KPEW >= 2.5269 WALL NO. 1
ITEM NO. 138<D-TZKZ >= 20000. (BOTH WALLS)
ITEM NO. 140<D-TZDELT>= 30.000 (BOTH WALLS)
ITEM NO. 141<D-TZALPH>= 0.50000 (BOTH WALLS)

DEFAULT WATER UNIT WEIGHT = 10.000
AVERAGED ON 12 VALUES

```
+-----------------------------------------------------------------------------------------------------------------------+
|                   PARATIEPLUS(TM)   NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*             |
|                                                                                                                       |
|                                                ParatiePlus                                                            |
|                                  Exe Time :28 January 2022   16:22:51                                                 |
+-----------------------------------------------------------------------------------------------------------------------+

PHASE DESCRIPTORS


STEP  NO.     1 no. of subincrements     1
                                       LEFT WALL    RIGHT WALL
Y                                       10.00       -0.9990E+30
Z-PC                                    343.0         0.000
Z-EXCAVATION                            343.0         0.000
Z-WATER_TABLE                           337.5       -0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL               0.000         0.000
ZQ                                      0.000         0.000
DZW_OF_THE_WATER_TABLE                 -0.6605E-01    0.000
QS_ON_THE_EXCAVATION_SIDE               0.000         0.000
ZQS                                     0.000       -0.9990E+30
ZCUT                                    0.000         0.000
BALANCE LEVEL FOR PORE PRESSURES        324.0         324.0
WATER_BEHAVIOUR_FLAG (LINING OPT)       0.000         0.000
PORE_UPDATE_FLAG                        0.000         0.000
PORE_TAB. _FLAG (gt.0= use tabs)        0.000         0.000
lateral thrusts reduction elevatio      0.000         0.000
Downhill reduction factor for effe      0.000         0.000
Downhill reduction factor for pore      0.000         0.000
Uphill reduction factor for effect      0.000         0.000
Uphill reduction factor for pore p      0.000         0.000
SEISMIC HORIZONTAL ACCEL. Kh [g]        0.000         0.000
UPHILL VERTICAL ACCEL.  Kv_uh [g]       0.000         0.000
DOWNHILL VERTICAL ACCEL.Kv_dh [g]       0.000         0.000
UPHILL BETA ANGLE (SLOPE) [deg]         0.000         0.000
UPHILL DELTA/PHI RATIO                  0.000         0.000
DOWNHILL BETA ANGLE (SLOPE) [deg]       0.000         0.000
DOWNHILL DELTA/PHI RATIO                0.000         0.000
DYN.WATER BEHAVIOUR                     0.000         0.000
Excess pore pressure RATIO Ru           0.000         0.000
SEISMIC PRESSURE LOWER VALUE            0.000         0.000
SEISMIC PRESSURE UPPER VALUE            0.000         0.000
SEISMIC PRESSURE LOWER LEVEL            0.000         0.000
SEISMIC PRESSURE UPPER LEVEL            0.000         0.000

=============================================================================================================end of step    1


STEP  NO.     2 no. of subincrements     1
                                       LEFT WALL    RIGHT WALL
Y                                       10.00       -0.9990E+30
Z-PC                                    339.0         0.000
Z-EXCAVATION                            339.0         0.000
Z-WATER_TABLE                           337.5       -0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL               0.000         0.000
ZQ                                      0.000         0.000
DZW_OF_THE_WATER_TABLE                 -0.3933E-01    0.000
QS_ON_THE_EXCAVATION_SIDE               0.000         0.000
ZQS                                     0.000       -0.9990E+30
ZCUT                                    0.000         0.000
BALANCE LEVEL FOR PORE PRESSURES        324.0         324.0
WATER_BEHAVIOUR_FLAG (LINING OPT)       0.000         0.000
PORE_UPDATE_FLAG                        0.000         0.000
PORE_TAB. _FLAG (gt.0= use tabs)        0.000         0.000
lateral thrusts reduction elevatio      0.000         0.000
Downhill reduction factor for effe      0.000         0.000
Downhill reduction factor for pore      0.000         0.000
Uphill reduction factor for effect      0.000         0.000
Uphill reduction factor for pore p      0.000         0.000
SEISMIC HORIZONTAL ACCEL. Kh [g]        0.000         0.000
UPHILL VERTICAL ACCEL.  Kv_uh [g]       0.000         0.000
DOWNHILL VERTICAL ACCEL.Kv_dh [g]       0.000         0.000
UPHILL BETA ANGLE (SLOPE) [deg]         0.000         0.000
UPHILL DELTA/PHI RATIO                  0.000         0.000
DOWNHILL BETA ANGLE (SLOPE) [deg]       0.000         0.000
DOWNHILL DELTA/PHI RATIO                0.000         0.000
DYN.WATER BEHAVIOUR                     0.000         0.000
Excess pore pressure RATIO Ru           0.000         0.000
SEISMIC PRESSURE LOWER VALUE            0.000         0.000
SEISMIC PRESSURE UPPER VALUE            0.000         0.000
SEISMIC PRESSURE LOWER LEVEL            0.000         0.000
SEISMIC PRESSURE UPPER LEVEL            0.000         0.000

=============================================================================================================end of step    2


STEP  NO.     3 no. of subincrements     1
                                       LEFT WALL    RIGHT WALL
Y                                       10.00       -0.9990E+30
```

Z-PC	339.0	0.000
Z-EXCAVATION	333.0	0.000
Z-WATER_TABLE	337.5	-0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL	0.000	0.000
ZQ	0.000	0.000
DZW_OF_THE_WATER_TABLE	4.973	0.000
QS_ON_THE_EXCAVATION_SIDE	0.000	0.000
ZQS	0.000	-0.9990E+30
ZCUT	0.000	0.000
BALANCE LEVEL FOR PORE PRESSURES	324.0	324.0
WATER_BEHAVIOUR_FLAG (LINING OPT)	0.000	0.000
PORE_UPDATE_FLAG	0.000	0.000
PORE_TAB. _FLAG (gt.0= use tabs)	0.000	0.000
lateral thrusts reduction elevatio	0.000	0.000
Downhill reduction factor for effe	0.000	0.000
Downhill reduction factor for pore	0.000	0.000
Uphill reduction factor for effect	0.000	0.000
Uphill reduction factor for pore p	0.000	0.000
SEISMIC HORIZONTAL ACCEL. Kh [g]	0.000	0.000
UPHILL VERTICAL ACCEL. Kv_uh [g]	0.000	0.000
DOWNHILL VERTICAL ACCEL.Kv_dh [g]	0.000	0.000
UPHILL BETA ANGLE (SLOPE) [deg]	0.000	0.000
UPHILL DELTA/PHI RATIO	0.000	0.000
DOWNHILL BETA ANGLE (SLOPE) [deg]	0.000	0.000
DOWNHILL DELTA/PHI RATIO	0.000	0.000
DYN.WATER BEHAVIOUR	0.000	0.000
Excess pore pressure RATIO Ru	0.000	0.000
SEISMIC PRESSURE LOWER VALUE	0.000	0.000
SEISMIC PRESSURE UPPER VALUE	0.000	0.000
SEISMIC PRESSURE LOWER LEVEL	0.000	0.000
SEISMIC PRESSURE UPPER LEVEL	0.000	0.000

==========end of step   3

STEP NO.   4 no. of subincrements   1

	LEFT WALL	RIGHT WALL
Y	10.00	-0.9990E+30
Z-PC	339.0	0.000
Z-EXCAVATION	333.0	0.000
Z-WATER_TABLE	337.5	-0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL	0.000	0.000
ZQ	0.000	0.000
DZW_OF_THE_WATER_TABLE	4.973	0.000
QS_ON_THE_EXCAVATION_SIDE	0.000	0.000
ZQS	0.000	-0.9990E+30
ZCUT	0.000	0.000
BALANCE LEVEL FOR PORE PRESSURES	324.0	324.0
WATER_BEHAVIOUR_FLAG (LINING OPT)	0.000	0.000
PORE_UPDATE_FLAG	0.000	0.000
PORE_TAB. _FLAG (gt.0= use tabs)	0.000	0.000
lateral thrusts reduction elevatio	0.000	0.000
Downhill reduction factor for effe	0.000	0.000
Downhill reduction factor for pore	0.000	0.000
Uphill reduction factor for effect	0.000	0.000
Uphill reduction factor for pore p	0.000	0.000
SEISMIC HORIZONTAL ACCEL. Kh [g]	-0.1454	0.000
	MANUAL	
UPHILL VERTICAL ACCEL. Kv_uh [g]	0.7270E-01	0.000
DOWNHILL VERTICAL ACCEL.Kv_dh [g]	-0.7270E-01	0.000
UPHILL BETA ANGLE (SLOPE) [deg]	0.000	0.000
UPHILL DELTA/PHI RATIO	0.5000	0.000
DOWNHILL BETA ANGLE (SLOPE) [deg]	0.000	0.000
DOWNHILL DELTA/PHI RATIO	0.5000	0.000
DYN.WATER BEHAVIOUR	0.000	0.000
Excess pore pressure RATIO Ru	0.000	0.000
SEISMIC PRESSURE LOWER VALUE	0.000	0.000
SEISMIC PRESSURE UPPER VALUE	0.000	0.000
SEISMIC PRESSURE LOWER LEVEL	0.000	0.000
SEISMIC PRESSURE UPPER LEVEL	0.000	0.000

==========end of step   4

LEFT-HAND WALL

LOWER LEVEL   324.00000
UPPER LEVEL   339.00000

RIGHT-HAND WALL

LOWER LEVEL   324.00000
UPPER LEVEL   339.00000

ELEMENT GROUPS BACKUP AREA CAN STAY IN CORE AT
POSITION   5556

NO. OF D.P.W FOR THIS AREA   11615

```
 MAX NO. OF D.P.W. AVAILABLE      81920
 ** MAX NO OF ITERATIONS SET TO          80

ITER     0 RNORM = 0.000     RMNORM= 0.000
           RINORM=0.1526E+06 RIMNOR= 0.000
           RENORM=0.4913E-01 REMNOR= 0.000     RATIO =0.5675E-03 TOLER =0.1000E-03  NOT CONVERGED
           RFMAX = 51.81     RMMAX = 0.000
           RTSMAL=0.1000E-03 RMSMAL= 0.000
           RDT   =0.1526E+06 RDR   = 0.000
           RATIOT=0.5675E-03 RATIOR= 0.000
           MAX UN= 0.000     IEQ=   152 NODE     76 DOF   2   X-ROT. F
           MIN UN=-.6510E-01 IEQ=    17 NODE      9 DOF   1  Y-DISPL.F
           NO. OF CONTACT CONSTRAINT VIOLATIONS     0


ITER     2 RNORM = 0.000     RMNORM= 0.000
           RINORM=0.1526E+06 RIMNOR= 0.000
           RENORM=0.1130E-26 REMNOR= 0.000     RATIO =0.8605E-16 TOLER =0.1000E-03      CONVERGED !
           RFMAX = 51.81     RMMAX = 0.000
           RTSMAL=0.1000E-03 RMSMAL= 0.000
           RDT   =0.1526E+06 RDR   = 0.000
           RATIOT=0.8605E-16 RATIOR= 0.000
           MAX UN=0.1421E-13 IEQ=   105 NODE     53 DOF   1  Y-DISPL.F
           MIN UN=-.1421E-13 IEQ=    99 NODE     50 DOF   1  Y-DISPL.F
           NO. OF CONTACT CONSTRAINT VIOLATIONS     0
```

```
+-----------------------------------------------------------------------------------------------------------------------+
|                  PARATIEPLUS(TM)   NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*             |
|                                                                                                                       |
|                                                ParatiePlus                                                            |
|                                  Exe Time :28 January 2022   16:22:51                                                 |
+-----------------------------------------------------------------------------------------------------------------------+
New Project
SOLUTION REACHED USING     2 ITERATIONS ON   80

P R I N T   O U T   F O R   T I M E   S T E P   1     ( AT TIME   1.000     ) SUBINCREMENT 00001/00001

PRINT OUT OF ACTIVE COMPONENTS (FIXED NODES ARE NOT PRINTED OUT)

          Y-DISPL.F        X-ROT. F
            02               04
    9  -3.1528369E-06    0.000000
   10  -3.0640234E-06    0.000000
   11  -2.9752098E-06    0.000000
   12  -2.8863963E-06    0.000000
   13  -2.7975827E-06    0.000000
   14  -2.7087247E-06    0.000000
   15  -2.6199112E-06    0.000000
   16  -2.5310976E-06    0.000000
   17  -2.4422841E-06    0.000000
   18  -2.3534705E-06    0.000000
   19  -2.2646569E-06    0.000000
   20  -2.1758434E-06    0.000000
   21  -3.5283727E-07    0.000000
   22  -3.3781477E-07    0.000000
   23  -3.2279978E-07    0.000000
   24  -3.0778479E-07    0.000000
   25  -2.9276980E-07    0.000000
   26  -2.7775481E-07    0.000000
   27  -2.6273981E-07    0.000000
   28  -2.4772482E-07    0.000000
   29  -2.3270983E-07    0.000000
   30  -2.1768734E-07    0.000000
   31  -2.0267234E-07    0.000000
   32  -1.8765735E-07    0.000000
   33  -1.7264236E-07    0.000000
   34  -1.5762737E-07    0.000000
   35  -1.4261238E-07    0.000000
   36  -1.2759739E-07    0.000000
   37  -1.1258240E-07    0.000000
   38  -9.7559902E-08    0.000000
   39  -8.2544911E-08    0.000000
   40  -6.7529921E-08    0.000000
   41  -1.2089843E-07    0.000000
   42  -1.1744394E-07    0.000000
   43  -1.1398946E-07    0.000000
   44  -1.1053497E-07    0.000000
   45  -1.0708048E-07    0.000000
   46  -1.0362599E-07    0.000000
   47  -1.0016978E-07    0.000000
   48  -9.6715290E-08    0.000000
   49  -9.3260803E-08    0.000000
   50  -8.9806315E-08    0.000000
   51  -8.6351827E-08    0.000000
   52  -8.2897340E-08    0.000000
   53  -7.9442852E-08    0.000000
   54  -7.5988364E-08    0.000000
   55  -7.2532149E-08    0.000000
   56  -6.9077662E-08    0.000000
   57  -6.5623174E-08    0.000000
   58  -6.2168687E-08    0.000000
   59  -5.8714199E-08    0.000000
   60  -5.5259711E-08    0.000000
   61  -5.1805224E-08    0.000000
   62  -4.8350736E-08    0.000000
   63  -4.4894521E-08    0.000000
   64  -4.1440034E-08    0.000000
   65  -3.7985546E-08    0.000000
   66  -3.4531058E-08    0.000000
   67  -3.1076571E-08    0.000000
   68  -2.7622083E-08    0.000000
   69  -2.4167595E-08    0.000000
   70  -2.0713108E-08    0.000000
   71  -1.7256893E-08    0.000000
   72  -1.3802405E-08    0.000000
   73  -1.0347918E-08    0.000000
   74  -6.8934301E-09    0.000000
   75  -3.4389424E-09    0.000000
```

```
+-----------------------------------------------------------------------------------------------------------------------------+
|                  PARATIEPLUS(TM)   NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*                    |
|                                                                                                                             |
|                                              ParatiePlus                                                                    |
|                                  Exe Time :28 January 2022   16:22:51                                                       |
+-----------------------------------------------------------------------------------------------------------------------------+
New Project


S T R E S S   R E S U L T S   F O R   G R O U P   N O.   1

0_L                                                    :
ELEMENT TYPE    5 NO.OF ELEMENTS. IN THIS GROUP   76
C U R R E N T   T I M E   I S      1.0000 SUBINCREMENT 00001/00001

 HARDENING 2D SOIL ELEMENT

 ****** TOTAL STRESS FORMULATION *****

  EL *   FORCE      DISPL-Y  VERTICAL-P  HORIZON.-P     MAX-V-P     MAX-H-P          STATE   STIFFNESS Z-LEVEL      PORE       E FAC-
TOR    UFACTOR       Peq          Su_a        Su_p        Cohe_a      Cohe_p     LAYER                              ZFO         QS
QSL          ZD          ZPL          Kz
 ------------------------------------------------------------------------------------------------------------------------------
-----------------------------------------------------------------------------------------------------------------------------
-----------------------------------------------
   1 D   3.800       0.000       76.00       38.00       76.00       38.00            V-C  3.5350E+04   339.0       0.000
1.000       1.000       38.00       0.000       0.000       0.000       0.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   2 D   7.980       0.000       79.80       39.90       79.80       39.90            V-C  3.5350E+04   338.8       0.000
1.000       1.000       39.90       0.000       0.000       0.000       0.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   3 D   8.360       0.000       83.60       41.80       83.60       41.80            V-C  3.5350E+04   338.6       0.000
1.000       1.000       41.80       0.000       0.000       0.000       0.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   4 D   8.740       0.000       87.40       43.70       87.40       43.70            V-C  3.5350E+04   338.4       0.000
1.000       1.000       43.70       0.000       0.000       0.000       0.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   5 D   9.120       0.000       91.20       45.60       91.20       45.60            V-C  3.5350E+04   338.2       0.000
1.000       1.000       45.60       0.000       0.000       0.000       0.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   6 D   9.500       0.000       95.00       47.50       95.00       47.50            V-C  3.5350E+04   338.0       0.000
1.000       1.000       47.50       0.000       0.000       0.000       0.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   7 D   9.880       0.000       98.80       49.40       98.80       49.40            V-C  3.5350E+04   337.8       0.000
1.000       1.000       49.40       0.000       0.000       0.000       0.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   8 D   10.26       0.000       102.6       51.30       102.6       51.30            V-C  3.5350E+04   337.6       0.000
1.000       1.000       51.30       0.000       0.000       0.000       0.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   9 D   10.73      3.1528E-06   105.7       52.96       105.7       52.96            V-C  3.5350E+04   337.4       0.7042
1.000       1.000       53.66       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  10 D   11.31      3.0640E-06   107.5       53.85       107.5       53.85            V-C  3.5350E+04   337.2       2.713
1.000       1.000       56.57       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  11 D   11.89      2.9752E-06   109.3       54.74       109.3       54.74            V-C  3.5350E+04   337.0       4.723
1.000       1.000       59.47       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  12 D   12.47      2.8864E-06   111.1       55.64       111.1       55.64            V-C  3.5350E+04   336.8       6.732
1.000       1.000       62.37       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  13 D   13.05      2.7976E-06   112.9       56.53       112.9       56.53            V-C  3.5350E+04   336.6       8.741
1.000       1.000       65.27       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  14 D   13.63      2.7087E-06   114.7       57.42       114.7       57.42            V-C  3.5350E+04   336.4       10.75
1.000       1.000       68.17       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  15 D   14.21      2.6199E-06   116.4       58.31       116.4       58.31            V-C  3.5350E+04   336.2       12.76
1.000       1.000       71.07       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  16 D   14.80      2.5311E-06   118.2       59.21       118.2       59.21            V-C  3.5350E+04   336.0       14.77
1.000       1.000       73.98       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  17 D   15.38      2.4423E-06   120.0       60.10       120.0       60.10            V-C  3.5350E+04   335.8       16.78
1.000       1.000       76.88       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  18 D   15.96      2.3535E-06   121.8       60.99       121.8       60.99            V-C  3.5350E+04   335.6       18.79
1.000       1.000       79.78       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  19 D   16.54      2.2647E-06   123.6       61.88       123.6       61.88            V-C  3.5350E+04   335.4       20.80
1.000       1.000       82.68       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  20 D   17.12      2.1758E-06   125.4       62.78       125.4       62.78            V-C  3.5350E+04   335.2       22.81
1.000       1.000       85.58       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  21 D   19.27      3.5284E-07   127.2       71.54       127.2       71.54            V-C  1.6003E+05   335.0       24.82
1.000       1.000       96.35       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  22 D   19.90      3.3781E-07   129.2       72.65       129.2       72.65            V-C  1.6003E+05   334.8       26.83
```

```
1.000       1.000       99.48       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  23 D   20.52      3.2280E-07   131.2       73.77       131.2       73.77           V-C  1.6003E+05   334.6       28.83
1.000       1.000       102.6       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  24 D   21.15      3.0778E-07   133.2       74.89       133.2       74.89           V-C  1.6003E+05   334.4       30.84
1.000       1.000       105.7       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  25 D   21.77      2.9277E-07   135.2       76.00       135.2       76.00           V-C  1.6003E+05   334.2       32.85
1.000       1.000       108.9       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  26 D   22.40      2.7775E-07   137.1       77.12       137.1       77.12           V-C  1.6003E+05   334.0       34.86
1.000       1.000       112.0       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  27 D   23.02      2.6274E-07   139.1       78.24       139.1       78.24           V-C  1.6003E+05   333.8       36.87
1.000       1.000       115.1       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  28 D   23.65      2.4772E-07   141.1       79.35       141.1       79.35           V-C  1.6003E+05   333.6       38.88
1.000       1.000       118.2       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  29 D   24.27      2.3271E-07   143.1       80.47       143.1       80.47           V-C  1.6003E+05   333.4       40.89
1.000       1.000       121.4       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  30 D   24.90      2.1769E-07   145.1       81.59       145.1       81.59           V-C  1.6003E+05   333.2       42.90
1.000       1.000       124.5       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  31 D   25.52      2.0267E-07   147.1       82.70       147.1       82.70           V-C  1.6003E+05   333.0       44.91
1.000       1.000       127.6       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  32 D   26.15      1.8766E-07   149.1       83.82       149.1       83.82           V-C  1.6003E+05   332.8       46.92
1.000       1.000       130.7       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  33 D   26.77      1.7264E-07   151.1       84.93       151.1       84.93           V-C  1.6003E+05   332.6       48.93
1.000       1.000       133.9       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  34 D   27.40      1.5763E-07   153.1       86.05       153.1       86.05           V-C  1.6003E+05   332.4       50.94
1.000       1.000       137.0       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  35 D   28.02      1.4261E-07   155.1       87.17       155.1       87.17           V-C  1.6003E+05   332.2       52.95
1.000       1.000       140.1       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  36 D   28.65      1.2760E-07   157.1       88.28       157.1       88.28           V-C  1.6003E+05   332.0       54.95
1.000       1.000       143.2       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  37 D   29.27      1.1258E-07   159.0       89.40       159.0       89.40           V-C  1.6003E+05   331.8       56.96
1.000       1.000       146.4       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  38 D   29.90      9.7560E-08   161.0       90.52       161.0       90.52           V-C  1.6003E+05   331.6       58.97
1.000       1.000       149.5       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  39 D   30.52      8.2545E-08   163.0       91.63       163.0       91.63           V-C  1.6003E+05   331.4       60.98
1.000       1.000       152.6       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  40 D   31.15      6.7530E-08   165.0       92.75       165.0       92.75           V-C  1.6003E+05   331.2       62.99
1.000       1.000       155.7       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  41 D   29.70      1.2090E-07   167.0       83.51       167.0       83.51           V-C  8.1593E+04   331.0       65.00
1.000       1.000       148.5       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  42 D   30.35      1.1744E-07   169.5       84.76       169.5       84.76           V-C  8.1593E+04   330.8       67.00
1.000       1.000       151.8       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  43 D   31.00      1.1399E-07   172.0       86.01       172.0       86.01           V-C  8.1593E+04   330.6       69.00
1.000       1.000       155.0       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  44 D   31.65      1.1053E-07   174.5       87.26       174.5       87.26           V-C  8.1593E+04   330.4       71.00
1.000       1.000       158.3       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  45 D   32.30      1.0708E-07   177.0       88.51       177.0       88.51           V-C  8.1593E+04   330.2       73.01
1.000       1.000       161.5       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  46 D   32.95      1.0363E-07   179.5       89.76       179.5       89.76           V-C  8.1593E+04   330.0       75.01
1.000       1.000       164.8       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  47 D   33.60      1.0017E-07   182.0       91.01       182.0       91.01           V-C  8.1593E+04   329.8       77.01
1.000       1.000       168.0       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  48 D   34.25      9.6715E-08   184.5       92.26       184.5       92.26           V-C  8.1593E+04   329.6       79.01
1.000       1.000       171.3       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  49 D   34.90      9.3261E-08   187.0       93.51       187.0       93.51           V-C  8.1593E+04   329.4       81.01
1.000       1.000       174.5       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  50 D   35.55      8.9806E-08   189.5       94.76       189.5       94.76           V-C  8.1593E+04   329.2       83.01
1.000       1.000       177.8       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  51 D   36.20      8.6352E-08   192.0       96.01       192.0       96.01           V-C  8.1593E+04   329.0       85.01
1.000       1.000       181.0       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  52 D   36.85      8.2897E-08   194.5       97.26       194.5       97.26           V-C  8.1593E+04   328.8       87.01
1.000       1.000       184.3       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
```

53 D	37.50	7.9443E-08	197.0	98.51	197.0	98.51	V-C	8.1593E+04	328.6	89.01
1.000	1.000	187.5	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
54 D	38.15	7.5988E-08	199.5	99.76	199.5	99.76	V-C	8.1593E+04	328.4	91.01
1.000	1.000	190.8	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
55 D	38.80	7.2532E-08	202.0	101.0	202.0	101.0	V-C	8.1593E+04	328.2	93.02
1.000	1.000	194.0	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
56 D	39.45	6.9078E-08	204.5	102.3	204.5	102.3	V-C	8.1593E+04	328.0	95.02
1.000	1.000	197.3	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
57 D	40.10	6.5623E-08	207.0	103.5	207.0	103.5	V-C	8.1593E+04	327.8	97.02
1.000	1.000	200.5	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
58 D	40.75	6.2169E-08	209.5	104.8	209.5	104.8	V-C	8.1593E+04	327.6	99.02
1.000	1.000	203.8	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
59 D	41.40	5.8714E-08	212.0	106.0	212.0	106.0	V-C	8.1593E+04	327.4	101.0
1.000	1.000	207.0	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
60 D	42.05	5.5260E-08	214.5	107.3	214.5	107.3	V-C	8.1593E+04	327.2	103.0
1.000	1.000	210.3	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
61 D	42.70	5.1805E-08	217.0	108.5	217.0	108.5	V-C	8.1593E+04	327.0	105.0
1.000	1.000	213.5	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
62 D	43.35	4.8351E-08	219.5	109.8	219.5	109.8	V-C	8.1593E+04	326.8	107.0
1.000	1.000	216.8	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
63 D	44.01	4.4895E-08	222.0	111.0	222.0	111.0	V-C	8.1593E+04	326.6	109.0
1.000	1.000	220.0	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
64 D	44.66	4.1440E-08	224.5	112.2	224.5	112.2	V-C	8.1593E+04	326.4	111.0
1.000	1.000	223.3	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
65 D	45.31	3.7986E-08	227.0	113.5	227.0	113.5	V-C	8.1593E+04	326.2	113.0
1.000	1.000	226.5	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
66 D	45.96	3.4531E-08	229.5	114.7	229.5	114.7	V-C	8.1593E+04	326.0	115.0
1.000	1.000	229.8	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
67 D	46.61	3.1077E-08	232.0	116.0	232.0	116.0	V-C	8.1593E+04	325.8	117.0
1.000	1.000	233.0	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
68 D	47.26	2.7622E-08	234.5	117.2	234.5	117.2	V-C	8.1593E+04	325.6	119.0
1.000	1.000	236.3	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
69 D	47.91	2.4168E-08	237.0	118.5	237.0	118.5	V-C	8.1593E+04	325.4	121.0
1.000	1.000	239.5	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
70 D	48.56	2.0713E-08	239.5	119.7	239.5	119.7	V-C	8.1593E+04	325.2	123.0
1.000	1.000	242.8	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
71 D	49.21	1.7257E-08	242.0	121.0	242.0	121.0	V-C	8.1593E+04	325.0	125.0
1.000	1.000	246.0	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
72 D	49.86	1.3802E-08	244.5	122.2	244.5	122.2	V-C	8.1593E+04	324.8	127.0
1.000	1.000	249.3	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
73 D	50.51	1.0348E-08	247.0	123.5	247.0	123.5	V-C	8.1593E+04	324.6	129.0
1.000	1.000	252.5	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
74 D	51.16	6.8934E-09	249.5	124.7	249.5	124.7	V-C	8.1593E+04	324.4	131.0
1.000	1.000	255.8	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
75 D	51.81	3.4389E-09	252.0	126.0	252.0	126.0	V-C	8.1593E+04	324.2	133.0
1.000	1.000	259.0	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
76 D	26.23	9.9465E-19	254.5	127.2	254.5	127.2	V-C	8.1593E+04	324.0	135.0
1.000	1.000	262.3	0.000	0.000	0.000	0.000	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						

```
+-----------------------------------------------------------------------------------------------------------------------------+
|                  PARATIEPLUS(TM)   NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*                    |
|                                                                                                                             |
|                                              ParatiePlus                                                                    |
|                                    Exe Time :28 January 2022   16:22:51                                                     |
+-----------------------------------------------------------------------------------------------------------------------------+
New Project


S T R E S S   R E S U L T S   F O R   G R O U P   N O.   2

0_R                                                    :
ELEMENT TYPE    5 NO.OF ELEMENTS. IN THIS GROUP   76
C U R R E N T   T I M E   I S      1.0000 SUBINCREMENT 00001/00001

 HARDENING 2D SOIL ELEMENT

 ****** TOTAL STRESS FORMULATION *****

  EL *   FORCE     DISPL-Y  VERTICAL-P  HORIZON.-P     MAX-V-P     MAX-H-P          STATE   STIFFNESS Z-LEVEL      PORE       E FAC-
TOR    UFACTOR       Peq          Su_a        Su_p        Cohe_a      Cohe_p     LAYER                              ZFO         QS
QSL         ZD          ZPL          Kz
 ------------------------------------------------------------------------------------------------------------------------------
-----------------------------------------------------------------------------------------------------------------------------
-----------------------------------------------
   1 D   3.800       0.000       76.00       38.00       76.00       38.00           V-C  2.2631E+04   339.0       0.000
1.000       1.000       38.00       0.000       0.000       0.000       0.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   2 D   7.980       0.000       79.80       39.90       79.80       39.90           V-C  2.2631E+04   338.8       0.000
1.000       1.000       39.90       0.000       0.000       0.000       0.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   3 D   8.360       0.000       83.60       41.80       83.60       41.80           V-C  2.2631E+04   338.6       0.000
1.000       1.000       41.80       0.000       0.000       0.000       0.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   4 D   8.740       0.000       87.40       43.70       87.40       43.70           V-C  2.2631E+04   338.4       0.000
1.000       1.000       43.70       0.000       0.000       0.000       0.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   5 D   9.120       0.000       91.20       45.60       91.20       45.60           V-C  2.2631E+04   338.2       0.000
1.000       1.000       45.60       0.000       0.000       0.000       0.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   6 D   9.500       0.000       95.00       47.50       95.00       47.50           V-C  2.2631E+04   338.0       0.000
1.000       1.000       47.50       0.000       0.000       0.000       0.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   7 D   9.880       0.000       98.80       49.40       98.80       49.40           V-C  2.2631E+04   337.8       0.000
1.000       1.000       49.40       0.000       0.000       0.000       0.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   8 D   10.26       0.000       102.6       51.30       102.6       51.30           V-C  2.2631E+04   337.6       0.000
1.000       1.000       51.30       0.000       0.000       0.000       0.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   9 D   10.73     -3.1528E-06   105.0       52.31       105.0       52.52          UL-RL  6.7893E+04   337.4       1.355
1.000       1.000       53.66       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  10 D   11.31     -3.0640E-06   106.9       53.22       106.9       53.43          UL-RL  6.7893E+04   337.2       3.346
1.000       1.000       56.57       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  11 D   11.89     -2.9752E-06   108.7       54.13       108.7       54.33          UL-RL  6.7893E+04   337.0       5.337
1.000       1.000       59.47       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  12 D   12.47     -2.8864E-06   110.5       55.04       110.5       55.24          UL-RL  6.7893E+04   336.8       7.328
1.000       1.000       62.37       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  13 D   13.05     -2.7976E-06   112.3       55.95       112.3       56.14          UL-RL  6.7893E+04   336.6       9.319
1.000       1.000       65.27       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  14 D   13.63     -2.7087E-06   114.1       56.86       114.1       57.05          UL-RL  6.7893E+04   336.4       11.31
1.000       1.000       68.17       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  15 D   14.21     -2.6199E-06   115.9       57.77       115.9       57.95          UL-RL  6.7893E+04   336.2       13.30
1.000       1.000       71.07       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  16 D   14.80     -2.5311E-06   117.7       58.68       117.7       58.86          UL-RL  6.7893E+04   336.0       15.29
1.000       1.000       73.98       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  17 D   15.38     -2.4423E-06   119.5       59.59       119.5       59.76          UL-RL  6.7893E+04   335.8       17.28
1.000       1.000       76.88       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  18 D   15.96     -2.3535E-06   121.3       60.51       121.3       60.67          UL-RL  6.7893E+04   335.6       19.27
1.000       1.000       79.78       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  19 D   16.54     -2.2647E-06   123.1       61.42       123.1       61.57          UL-RL  6.7893E+04   335.4       21.26
1.000       1.000       82.68       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  20 D   17.12     -2.1758E-06   124.9       62.33       124.9       62.47          UL-RL  6.7893E+04   335.2       23.26
1.000       1.000       85.58       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  21 D   19.27     -3.5284E-07   126.8       71.11       126.8       71.24          UL-RL  3.7492E+05   335.0       25.25
1.000       1.000       96.35       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  22 D   19.90     -3.3781E-07   128.8       72.24       128.8       72.37          UL-RL  3.7492E+05   334.8       27.24
```

```
1.000       1.000       99.48       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  23 D   20.52     -3.2280E-07   130.8       73.38       130.8       73.50          UL-RL  3.7492E+05   334.6       29.23
1.000       1.000       102.6       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  24 D   21.15     -3.0778E-07   132.8       74.51       132.8       74.63          UL-RL  3.7492E+05   334.4       31.22
1.000       1.000       105.7       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  25 D   21.77     -2.9277E-07   134.8       75.65       134.8       75.76          UL-RL  3.7492E+05   334.2       33.21
1.000       1.000       108.9       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  26 D   22.40     -2.7775E-07   136.8       76.78       136.8       76.88          UL-RL  3.7492E+05   334.0       35.20
1.000       1.000       112.0       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  27 D   23.02     -2.6274E-07   138.8       77.91       138.8       78.01          UL-RL  3.7492E+05   333.8       37.19
1.000       1.000       115.1       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  28 D   23.65     -2.4772E-07   140.8       79.05       140.8       79.14          UL-RL  3.7492E+05   333.6       39.18
1.000       1.000       118.2       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  29 D   24.27     -2.3271E-07   142.8       80.18       142.8       80.27          UL-RL  3.7492E+05   333.4       41.17
1.000       1.000       121.4       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  30 D   24.90     -2.1769E-07   144.8       81.32       144.8       81.40          UL-RL  3.7492E+05   333.2       43.17
1.000       1.000       124.5       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  31 D   25.52     -2.0267E-07   146.9       82.45       146.9       82.53          UL-RL  3.7492E+05   333.0       45.16
1.000       1.000       127.6       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  32 D   26.15     -1.8766E-07   148.9       83.59       148.9       83.66          UL-RL  3.7492E+05   332.8       47.15
1.000       1.000       130.7       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  33 D   26.77     -1.7264E-07   150.9       84.72       150.9       84.79          UL-RL  3.7492E+05   332.6       49.14
1.000       1.000       133.9       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  34 D   27.40     -1.5763E-07   152.9       85.86       152.9       85.92          UL-RL  3.7492E+05   332.4       51.13
1.000       1.000       137.0       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  35 D   28.02     -1.4261E-07   154.9       86.99       154.9       87.05          UL-RL  3.7492E+05   332.2       53.12
1.000       1.000       140.1       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  36 D   28.65     -1.2760E-07   156.9       88.13       156.9       88.18          UL-RL  3.7492E+05   332.0       55.11
1.000       1.000       143.2       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  37 D   29.27     -1.1258E-07   158.9       89.26       158.9       89.31          UL-RL  3.7492E+05   331.8       57.10
1.000       1.000       146.4       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  38 D   29.90     -9.7560E-08   160.9       90.40       160.9       90.44          UL-RL  3.7492E+05   331.6       59.09
1.000       1.000       149.5       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  39 D   30.52     -8.2545E-08   162.9       91.53       162.9       91.56          UL-RL  3.7492E+05   331.4       61.08
1.000       1.000       152.6       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  40 D   31.15     -6.7530E-08   164.9       92.67       164.9       92.69          UL-RL  3.7492E+05   331.2       63.07
1.000       1.000       155.7       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  41 D   29.70     -1.2090E-07   166.9       83.45       166.9       83.47          UL-RL  1.8384E+05   331.0       65.07
1.000       1.000       148.5       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  42 D   30.35     -1.1744E-07   169.4       84.70       169.4       84.72          UL-RL  1.8384E+05   330.8       67.06
1.000       1.000       151.8       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  43 D   31.00     -1.1399E-07   171.9       85.95       171.9       85.97          UL-RL  1.8384E+05   330.6       69.06
1.000       1.000       155.0       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  44 D   31.65     -1.1053E-07   174.4       87.20       174.4       87.22          UL-RL  1.8384E+05   330.4       71.06
1.000       1.000       158.3       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  45 D   32.30     -1.0708E-07   176.9       88.45       176.9       88.47          UL-RL  1.8384E+05   330.2       73.06
1.000       1.000       161.5       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  46 D   32.95     -1.0363E-07   179.5       89.71       179.5       89.73          UL-RL  1.8384E+05   330.0       75.06
1.000       1.000       164.8       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  47 D   33.60     -1.0017E-07   182.0       90.96       182.0       90.98          UL-RL  1.8384E+05   329.8       77.06
1.000       1.000       168.0       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  48 D   34.25     -9.6715E-08   184.5       92.21       184.5       92.23          UL-RL  1.8384E+05   329.6       79.06
1.000       1.000       171.3       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  49 D   34.90     -9.3261E-08   187.0       93.46       187.0       93.48          UL-RL  1.8384E+05   329.4       81.06
1.000       1.000       174.5       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  50 D   35.55     -8.9806E-08   189.5       94.71       189.5       94.73          UL-RL  1.8384E+05   329.2       83.06
1.000       1.000       177.8       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  51 D   36.20     -8.6352E-08   192.0       95.96       192.0       95.98          UL-RL  1.8384E+05   329.0       85.06
1.000       1.000       181.0       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  52 D   36.85     -8.2897E-08   194.5       97.21       194.5       97.23          UL-RL  1.8384E+05   328.8       87.06
1.000       1.000       184.3       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
```

53 D	37.50	-7.9443E-08	197.0	98.46	197.0	98.48	UL-RL	1.8384E+05	328.6	89.06
1.000	1.000	187.5	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
54 D	38.15	-7.5988E-08	199.5	99.72	199.5	99.73	UL-RL	1.8384E+05	328.4	91.05
1.000	1.000	190.8	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
55 D	38.80	-7.2532E-08	202.0	101.0	202.0	101.0	UL-RL	1.8384E+05	328.2	93.05
1.000	1.000	194.0	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
56 D	39.45	-6.9078E-08	204.5	102.2	204.5	102.2	UL-RL	1.8384E+05	328.0	95.05
1.000	1.000	197.3	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
57 D	40.10	-6.5623E-08	207.0	103.5	207.0	103.5	UL-RL	1.8384E+05	327.8	97.05
1.000	1.000	200.5	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
58 D	40.75	-6.2169E-08	209.5	104.7	209.5	104.7	UL-RL	1.8384E+05	327.6	99.05
1.000	1.000	203.8	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
59 D	41.40	-5.8714E-08	212.0	106.0	212.0	106.0	UL-RL	1.8384E+05	327.4	101.1
1.000	1.000	207.0	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
60 D	42.05	-5.5260E-08	214.5	107.2	214.5	107.2	UL-RL	1.8384E+05	327.2	103.1
1.000	1.000	210.3	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
61 D	42.70	-5.1805E-08	217.0	108.5	217.0	108.5	UL-RL	1.8384E+05	327.0	105.0
1.000	1.000	213.5	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
62 D	43.35	-4.8351E-08	219.5	109.7	219.5	109.7	UL-RL	1.8384E+05	326.8	107.0
1.000	1.000	216.8	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
63 D	44.01	-4.4895E-08	222.0	111.0	222.0	111.0	UL-RL	1.8384E+05	326.6	109.0
1.000	1.000	220.0	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
64 D	44.66	-4.1440E-08	224.5	112.2	224.5	112.2	UL-RL	1.8384E+05	326.4	111.0
1.000	1.000	223.3	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
65 D	45.31	-3.7986E-08	227.0	113.5	227.0	113.5	UL-RL	1.8384E+05	326.2	113.0
1.000	1.000	226.5	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
66 D	45.96	-3.4531E-08	229.5	114.7	229.5	114.7	UL-RL	1.8384E+05	326.0	115.0
1.000	1.000	229.8	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
67 D	46.61	-3.1077E-08	232.0	116.0	232.0	116.0	UL-RL	1.8384E+05	325.8	117.0
1.000	1.000	233.0	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
68 D	47.26	-2.7622E-08	234.5	117.2	234.5	117.2	UL-RL	1.8384E+05	325.6	119.0
1.000	1.000	236.3	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
69 D	47.91	-2.4168E-08	237.0	118.5	237.0	118.5	UL-RL	1.8384E+05	325.4	121.0
1.000	1.000	239.5	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
70 D	48.56	-2.0713E-08	239.5	119.7	239.5	119.7	UL-RL	1.8384E+05	325.2	123.0
1.000	1.000	242.8	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
71 D	49.21	-1.7257E-08	242.0	121.0	242.0	121.0	UL-RL	1.8384E+05	325.0	125.0
1.000	1.000	246.0	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
72 D	49.86	-1.3802E-08	244.5	122.2	244.5	122.2	UL-RL	1.8384E+05	324.8	127.0
1.000	1.000	249.3	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
73 D	50.51	-1.0348E-08	247.0	123.5	247.0	123.5	UL-RL	1.8384E+05	324.6	129.0
1.000	1.000	252.5	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
74 D	51.16	-6.8934E-09	249.5	124.7	249.5	124.7	UL-RL	1.8384E+05	324.4	131.0
1.000	1.000	255.8	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
75 D	51.81	-3.4389E-09	252.0	126.0	252.0	126.0	UL-RL	1.8384E+05	324.2	133.0
1.000	1.000	259.0	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
76 D	26.23	-9.9465E-19	254.5	127.2	254.5	127.2	V-C	6.1280E+04	324.0	135.0
1.000	1.000	262.3	0.000	0.000	0.000	0.000	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						

```
+-----------------------------------------------------------------------------------------------------------------------+
|                   PARATIEPLUS(TM)   NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*             |
|                                                                                                                       |
|                                                ParatiePlus                                                            |
|                                  Exe Time :28 January 2022   16:22:51                                                 |
+-----------------------------------------------------------------------------------------------------------------------+
New Project


S T R E S S   R E S U L T S   F O R   G R O U P   N O.   3

Pali1500_253215                                              :
ELEMENT TYPE    2 NO.OF ELEMENTS. IN THIS GROUP   75
C U R R E N T   T I M E   I S      1.0000 SUBINCREMENT 00001/00001

 WALL2D ELEMENT

   EL      TA          TB          MA          MB
-------------------------------------------------

***** NO ONE ELEMENT ACTIVE AT CURRENT STEP *****

ITER     0 RNORM = 0.000     RMNORM= 0.000
           RINORM=0.1166E+06 RIMNOR= 0.000
           RENORM=0.1892E-01 REMNOR= 0.000     RATIO =0.4029E-03 TOLER =0.1000E-03  NOT CONVERGED
           RFMAX = 47.65     RMMAX = 0.000
           RTSMAL=0.1000E-03 RMSMAL= 0.000
           RDT   =0.1166E+06 RDR   = 0.000
           RATIOT=0.4029E-03 RATIOR= 0.000
           MAX UN=0.4135E-01 IEQ=    17 NODE      9 DOF   1  Y-DISPL.F
           MIN UN= 0.000     IEQ=     1 NODE      1 DOF   1  Y-DISPL.F
           NO. OF CONTACT CONSTRAINT VIOLATIONS     0


ITER     2 RNORM = 0.000     RMNORM= 0.000
           RINORM=0.1166E+06 RIMNOR= 0.000
           RENORM=0.3436E-22 REMNOR=0.1559E-24 RATIO =0.1717E-13 TOLER =0.1000E-03      CONVERGED !
           RFMAX = 47.65     RMMAX = 0.000
           RTSMAL=0.1000E-03 RMSMAL= 0.000
           RDT   =0.1166E+06 RDR   = 0.000
           RATIOT=0.1717E-13 RATIOR= 0.000
           MAX UN=0.2430E-11 IEQ=    31 NODE     16 DOF   1  Y-DISPL.F
           MIN UN=-.2402E-11 IEQ=    29 NODE     15 DOF   1  Y-DISPL.F
           NO. OF CONTACT CONSTRAINT VIOLATIONS     0
```

```
+-----------------------------------------------------------------------------------------------------------------------+
|                  PARATIEPLUS(TM)   NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*             |
|                                                                                                                       |
|                                                ParatiePlus                                                            |
|                                  Exe Time :28 January 2022   16:22:51                                                 |
+-----------------------------------------------------------------------------------------------------------------------+
New Project
SOLUTION REACHED USING     2 ITERATIONS ON   80

P R I N T   O U T   F O R   T I M E   S T E P   2     ( AT TIME   2.000     ) SUBINCREMENT 00001/00001

PRINT OUT OF ACTIVE COMPONENTS (FIXED NODES ARE NOT PRINTED OUT)

          Y-DISPL.F        X-ROT. F
            02               04
    1   4.5879150E-07  -1.6006488E-08
    2   4.5558910E-07  -1.6023025E-08
    3   4.5237448E-07  -1.6156784E-08
    4   4.4910739E-07  -1.6575461E-08
    5   4.4571420E-07  -1.7445559E-08
    6   4.4208616E-07  -1.8933268E-08
    7   4.3808710E-07  -2.1201075E-08
    8   4.3354285E-07  -2.4412114E-08
    9  -2.7245883E-06  -2.8727373E-08
   10  -2.6420411E-06  -3.4086484E-08
   11  -2.5606471E-06  -4.0215649E-08
   12  -2.4805342E-06  -4.6854664E-08
   13  -2.4017793E-06  -5.3755789E-08
   14  -2.3243728E-06  -6.0686131E-08
   15  -2.2483743E-06  -6.7412841E-08
   16  -2.1736830E-06  -7.3722978E-08
   17  -2.1001947E-06  -7.9408758E-08
   18  -2.0277645E-06  -8.4270273E-08
   19  -1.9562079E-06  -8.8114815E-08
   20  -1.8853031E-06  -9.0756289E-08
   21  -8.0598573E-08  -9.2014738E-08
   22  -8.3999248E-08  -9.1918535E-08
   23  -8.7262325E-08  -9.0691451E-08
   24  -9.0183950E-08  -8.8535917E-08
   25  -9.2596877E-08  -8.5632886E-08
   26  -9.4367982E-08  -8.2142737E-08
   27  -9.5394232E-08  -7.8206209E-08
   28  -9.5598876E-08  -7.3945560E-08
   29  -9.4927875E-08  -6.9465909E-08
   30  -9.3345599E-08  -6.4854374E-08
   31  -9.0835467E-08  -6.0190889E-08
   32  -8.7392546E-08  -5.5535990E-08
   33  -8.3023917E-08  -5.0941634E-08
   34  -7.7746104E-08  -4.6450565E-08
   35  -7.1583392E-08  -4.2097938E-08
   36  -6.4566472E-08  -3.7912920E-08
   37  -5.6731400E-08  -3.3920237E-08
   38  -4.8114366E-08  -3.0139841E-08
   39  -3.8768866E-08  -2.6595780E-08
   40  -2.8739664E-08  -2.3306217E-08
   41  -8.6463253E-08  -2.0292368E-08
   42  -8.6789478E-08  -1.7561181E-08
   43  -8.6596972E-08  -1.5103319E-08
   44  -8.5939292E-08  -1.2907383E-08
   45  -8.4867544E-08  -1.0960353E-08
   46  -8.3430102E-08  -9.2479891E-09
   47  -8.1671449E-08  -7.7544873E-09
   48  -7.9635712E-08  -6.4656729E-09
   49  -7.7361272E-08  -5.3647914E-09
   50  -7.4884115E-08  -4.4358342E-09
   51  -7.2237035E-08  -3.6629394E-09
   52  -6.9449683E-08  -3.0305603E-09
   53  -6.6548645E-08  -2.5236061E-09
   54  -6.3557544E-08  -2.1275572E-09
   55  -6.0495618E-08  -1.8284302E-09
   56  -5.7384021E-08  -1.6134036E-09
   57  -5.4236778E-08  -1.4699752E-09
   58  -5.1067043E-08  -1.3866448E-09
   59  -4.7885757E-08  -1.3527685E-09
   60  -4.4701820E-08  -1.3585744E-09
   61  -4.1522264E-08  -1.3951688E-09
   62  -3.8352431E-08  -1.4545360E-09
   63  -3.5194571E-08  -1.5295729E-09
   64  -3.2054326E-08  -1.6139221E-09
   65  -2.8931426E-08  -1.7021844E-09
   66  -2.5826179E-08  -1.7897596E-09
   67  -2.2738056E-08  -1.8728653E-09
   68  -1.9665853E-08  -1.9485219E-09
   69  -1.6607847E-08  -2.0145373E-09
   70  -1.3561955E-08  -2.0694943E-09
   71  -1.0524373E-08  -2.1127577E-09
   72  -7.4957887E-09  -2.1443837E-09
   73  -4.4724331E-09  -2.1652431E-09
   74  -1.4522988E-09  -2.1769231E-09
```

```
75   1.5662299E-09  -2.1817481E-09
76   4.5706495E-09  -2.1827789E-09
```

```
+-------------------------------------------------------------------------------------------------------------------------------+
|                  PARATIEPLUS(TM)   NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*                      |
|                                                                                                                               |
|                                              ParatiePlus                                                                      |
|                                    Exe Time :28 January 2022   16:22:51                                                       |
+-------------------------------------------------------------------------------------------------------------------------------+
New Project


S T R E S S   R E S U L T S   F O R   G R O U P   N O.   1

0_L                                                    :
ELEMENT TYPE    5 NO.OF ELEMENTS. IN THIS GROUP   76
C U R R E N T   T I M E   I S      2.0000 SUBINCREMENT 00001/00001

 HARDENING 2D SOIL ELEMENT

 ****** TOTAL STRESS FORMULATION *****

  EL *   FORCE      DISPL-Y  VERTICAL-P  HORIZON.-P     MAX-V-P     MAX-H-P          STATE   STIFFNESS Z-LEVEL      PORE       E FAC-
TOR    UFACTOR       Peq          Su_a        Su_p        Cohe_a      Cohe_p     LAYER                                ZFO         QS
QSL          ZD          ZPL          Kz
 ------------------------------------------------------------------------------------------------------------------------------
-------------------------------------------------------------------------------------------------------------------------------
-----------------------------------------------
   1 D   0.000     -4.5879E-07   0.000       0.000       76.00       38.00          ACTIVE   0.000       339.0       0.000
1.000       1.000       0.000       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   2 D   1.732     -4.5559E-07   3.800       8.659       79.80       39.90          UL-RL  1.0605E+05   338.8       0.000
1.000       1.000       8.659       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   3 D   2.511     -4.5237E-07   7.600       12.56       83.60       41.80          UL-RL  1.0605E+05   338.6       0.000
1.000       1.000       12.56       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   4 D   3.147     -4.4911E-07   11.40       15.73       87.40       43.70          UL-RL  1.0605E+05   338.4       0.000
1.000       1.000       15.73       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   5 D   3.714     -4.4571E-07   15.20       18.57       91.20       45.60          UL-RL  1.0605E+05   338.2       0.000
1.000       1.000       18.57       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   6 D   4.239     -4.4209E-07   19.00       21.20       95.00       47.50          UL-RL  1.0605E+05   338.0       0.000
1.000       1.000       21.20       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   7 D   4.737     -4.3809E-07   22.80       23.69       98.80       49.40          UL-RL  1.0605E+05   337.8       0.000
1.000       1.000       23.69       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   8 D   5.215     -4.3354E-07   26.60       26.08       102.6       51.30          UL-RL  1.0605E+05   337.6       0.000
1.000       1.000       26.08       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   9 D   5.757      2.7246E-06   29.70       28.08       105.7       52.96          UL-RL  1.0605E+05   337.4       0.7029
1.000       1.000       28.78       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  10 D   6.373      2.6420E-06   31.49       29.15       107.5       53.85          UL-RL  1.0605E+05   337.2       2.708
1.000       1.000       31.86       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  11 D   6.986      2.5606E-06   33.29       30.22       109.3       54.74          UL-RL  1.0605E+05   337.0       4.714
1.000       1.000       34.93       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  12 D   7.598      2.4805E-06   35.08       31.27       111.1       55.64          UL-RL  1.0605E+05   336.8       6.719
1.000       1.000       37.99       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  13 D   8.208      2.4018E-06   36.88       32.31       112.9       56.53          UL-RL  1.0605E+05   336.6       8.725
1.000       1.000       41.04       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  14 D   8.816      2.3244E-06   38.67       33.35       114.7       57.42          UL-RL  1.0605E+05   336.4       10.73
1.000       1.000       44.08       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  15 D   9.422      2.2484E-06   40.47       34.38       116.4       58.31          UL-RL  1.0605E+05   336.2       12.74
1.000       1.000       47.11       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  16 D   10.03      2.1737E-06   42.26       35.40       118.2       59.21          UL-RL  1.0605E+05   336.0       14.74
1.000       1.000       50.14       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  17 D   10.63      2.1002E-06   44.06       36.41       120.0       60.10          UL-RL  1.0605E+05   335.8       16.75
1.000       1.000       53.16       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  18 D   11.23      2.0278E-06   45.85       37.42       121.8       60.99          UL-RL  1.0605E+05   335.6       18.75
1.000       1.000       56.17       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  19 D   11.84      1.9562E-06   47.65       38.42       123.6       61.88          UL-RL  1.0605E+05   335.4       20.76
1.000       1.000       59.18       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  20 D   12.44      1.8853E-06   49.44       39.41       125.4       62.78          UL-RL  1.0605E+05   335.2       22.76
1.000       1.000       62.18       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  21 D   14.01      8.0599E-08   51.23       45.29       127.2       71.54          UL-RL  4.8010E+05   335.0       24.77
1.000       1.000       70.06       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  22 D   14.66      8.3999E-08   53.23       46.54       129.2       72.65          UL-RL  4.8010E+05   334.8       26.78
```

1.000	1.000	73.31	0.000	0.000	10.00	10.00	Salt_1270_202756_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
23 D	15.31	8.7262E-08	55.22	47.77	131.2	73.77	UL-RL	4.8010E+05	334.6	28.78
1.000	1.000	76.55	0.000	0.000	10.00	10.00	Salt_1270_202756_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
24 D	15.96	9.0184E-08	57.22	49.00	133.2	74.89	UL-RL	4.8010E+05	334.4	30.79
1.000	1.000	79.79	0.000	0.000	10.00	10.00	Salt_1270_202756_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
25 D	16.60	9.2597E-08	59.21	50.23	135.2	76.00	UL-RL	4.8010E+05	334.2	32.79
1.000	1.000	83.02	0.000	0.000	10.00	10.00	Salt_1270_202756_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
26 D	17.25	9.4368E-08	61.21	51.45	137.1	77.12	UL-RL	4.8010E+05	334.0	34.80
1.000	1.000	86.25	0.000	0.000	10.00	10.00	Salt_1270_202756_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
27 D	17.89	9.5394E-08	63.20	52.66	139.1	78.24	UL-RL	4.8010E+05	333.8	36.80
1.000	1.000	89.47	0.000	0.000	10.00	10.00	Salt_1270_202756_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
28 D	18.54	9.5599E-08	65.20	53.87	141.1	79.35	UL-RL	4.8010E+05	333.6	38.81
1.000	1.000	92.68	0.000	0.000	10.00	10.00	Salt_1270_202756_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
29 D	19.18	9.4928E-08	67.19	55.08	143.1	80.47	UL-RL	4.8010E+05	333.4	40.81
1.000	1.000	95.90	0.000	0.000	10.00	10.00	Salt_1270_202756_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
30 D	19.82	9.3346E-08	69.19	56.29	145.1	81.59	UL-RL	4.8010E+05	333.2	42.82
1.000	1.000	99.11	0.000	0.000	10.00	10.00	Salt_1270_202756_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
31 D	20.46	9.0835E-08	71.18	57.49	147.1	82.70	UL-RL	4.8010E+05	333.0	44.83
1.000	1.000	102.3	0.000	0.000	10.00	10.00	Salt_1270_202756_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
32 D	21.10	8.7393E-08	73.18	58.68	149.1	83.82	UL-RL	4.8010E+05	332.8	46.83
1.000	1.000	105.5	0.000	0.000	10.00	10.00	Salt_1270_202756_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
33 D	21.74	8.3024E-08	75.17	59.88	151.1	84.93	UL-RL	4.8010E+05	332.6	48.84
1.000	1.000	108.7	0.000	0.000	10.00	10.00	Salt_1270_202756_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
34 D	22.38	7.7746E-08	77.17	61.07	153.1	86.05	UL-RL	4.8010E+05	332.4	50.84
1.000	1.000	111.9	0.000	0.000	10.00	10.00	Salt_1270_202756_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
35 D	23.02	7.1583E-08	79.16	62.25	155.1	87.17	UL-RL	4.8010E+05	332.2	52.85
1.000	1.000	115.1	0.000	0.000	10.00	10.00	Salt_1270_202756_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
36 D	23.66	6.4566E-08	81.15	63.44	157.1	88.28	UL-RL	4.8010E+05	332.0	54.85
1.000	1.000	118.3	0.000	0.000	10.00	10.00	Salt_1270_202756_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
37 D	24.30	5.6731E-08	83.15	64.62	159.0	89.40	UL-RL	4.8010E+05	331.8	56.86
1.000	1.000	121.5	0.000	0.000	10.00	10.00	Salt_1270_202756_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
38 D	24.93	4.8114E-08	85.14	65.80	161.0	90.52	UL-RL	4.8010E+05	331.6	58.87
1.000	1.000	124.7	0.000	0.000	10.00	10.00	Salt_1270_202756_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
39 D	25.57	3.8769E-08	87.14	66.98	163.0	91.63	UL-RL	4.8010E+05	331.4	60.87
1.000	1.000	127.8	0.000	0.000	10.00	10.00	Salt_1270_202756_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
40 D	26.21	2.8740E-08	89.13	68.15	165.0	92.75	UL-RL	4.8010E+05	331.2	62.88
1.000	1.000	131.0	0.000	0.000	10.00	10.00	Salt_1270_202756_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
41 D	25.31	8.6463E-08	91.13	61.69	167.0	83.51	UL-RL	2.4478E+05	331.0	64.88
1.000	1.000	126.6	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
42 D	25.97	8.6789E-08	93.63	62.99	169.5	84.76	UL-RL	2.4478E+05	330.8	66.88
1.000	1.000	129.9	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
43 D	26.64	8.6597E-08	96.13	64.30	172.0	86.01	UL-RL	2.4478E+05	330.6	68.88
1.000	1.000	133.2	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
44 D	27.30	8.5939E-08	98.63	65.60	174.5	87.26	UL-RL	2.4478E+05	330.4	70.88
1.000	1.000	136.5	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
45 D	27.96	8.4868E-08	101.1	66.90	177.0	88.51	UL-RL	2.4478E+05	330.2	72.88
1.000	1.000	139.8	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
46 D	28.62	8.3430E-08	103.6	68.20	179.5	89.76	UL-RL	2.4478E+05	330.0	74.88
1.000	1.000	143.1	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
47 D	29.28	8.1671E-08	106.1	69.49	182.0	91.01	UL-RL	2.4478E+05	329.8	76.89
1.000	1.000	146.4	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
48 D	29.94	7.9636E-08	108.6	70.79	184.5	92.26	UL-RL	2.4478E+05	329.6	78.89
1.000	1.000	149.7	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
49 D	30.59	7.7361E-08	111.1	72.08	187.0	93.51	UL-RL	2.4478E+05	329.4	80.89
1.000	1.000	153.0	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
50 D	31.25	7.4884E-08	113.6	73.37	189.5	94.76	UL-RL	2.4478E+05	329.2	82.89
1.000	1.000	156.3	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
51 D	31.91	7.2237E-08	116.1	74.66	192.0	96.01	UL-RL	2.4478E+05	329.0	84.89
1.000	1.000	159.6	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
52 D	32.57	6.9450E-08	118.6	75.95	194.5	97.26	UL-RL	2.4478E+05	328.8	86.89
1.000	1.000	162.8	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						

53 D	33.23	6.6549E-08	121.1	77.24	197.0	98.51	UL-RL	2.4478E+05	328.6	88.89
1.000	1.000	166.1	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
54 D	33.88	6.3558E-08	123.6	78.53	199.5	99.76	UL-RL	2.4478E+05	328.4	90.89
1.000	1.000	169.4	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
55 D	34.54	6.0496E-08	126.1	79.81	202.0	101.0	UL-RL	2.4478E+05	328.2	92.89
1.000	1.000	172.7	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
56 D	35.20	5.7384E-08	128.6	81.09	204.5	102.3	UL-RL	2.4478E+05	328.0	94.89
1.000	1.000	176.0	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
57 D	35.85	5.4237E-08	131.1	82.38	207.0	103.5	UL-RL	2.4478E+05	327.8	96.89
1.000	1.000	179.3	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
58 D	36.51	5.1067E-08	133.6	83.66	209.5	104.8	UL-RL	2.4478E+05	327.6	98.89
1.000	1.000	182.6	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
59 D	37.17	4.7886E-08	136.1	84.94	212.0	106.0	UL-RL	2.4478E+05	327.4	100.9
1.000	1.000	185.8	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
60 D	37.82	4.4702E-08	138.6	86.22	214.5	107.3	UL-RL	2.4478E+05	327.2	102.9
1.000	1.000	189.1	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
61 D	38.48	4.1522E-08	141.1	87.50	217.0	108.5	UL-RL	2.4478E+05	327.0	104.9
1.000	1.000	192.4	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
62 D	39.13	3.8352E-08	143.6	88.78	219.5	109.8	UL-RL	2.4478E+05	326.8	106.9
1.000	1.000	195.7	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
63 D	39.79	3.5195E-08	146.1	90.05	222.0	111.0	UL-RL	2.4478E+05	326.6	108.9
1.000	1.000	199.0	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
64 D	40.45	3.2054E-08	148.6	91.33	224.5	112.2	UL-RL	2.4478E+05	326.4	110.9
1.000	1.000	202.2	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
65 D	41.10	2.8931E-08	151.1	92.61	227.0	113.5	UL-RL	2.4478E+05	326.2	112.9
1.000	1.000	205.5	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
66 D	41.76	2.5826E-08	153.6	93.88	229.5	114.7	UL-RL	2.4478E+05	326.0	114.9
1.000	1.000	208.8	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
67 D	42.41	2.2738E-08	156.1	95.16	232.0	116.0	UL-RL	2.4478E+05	325.8	116.9
1.000	1.000	212.1	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
68 D	43.07	1.9666E-08	158.6	96.43	234.5	117.2	UL-RL	2.4478E+05	325.6	118.9
1.000	1.000	215.3	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
69 D	43.72	1.6608E-08	161.1	97.70	237.0	118.5	UL-RL	2.4478E+05	325.4	120.9
1.000	1.000	218.6	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
70 D	44.38	1.3562E-08	163.6	98.97	239.5	119.7	UL-RL	2.4478E+05	325.2	122.9
1.000	1.000	221.9	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
71 D	45.03	1.0524E-08	166.1	100.2	242.0	121.0	UL-RL	2.4478E+05	325.0	124.9
1.000	1.000	225.1	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
72 D	45.68	7.4958E-09	168.6	101.5	244.5	122.2	UL-RL	2.4478E+05	324.8	126.9
1.000	1.000	228.4	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
73 D	46.34	4.4724E-09	171.1	102.8	247.0	123.5	UL-RL	2.4478E+05	324.6	128.9
1.000	1.000	231.7	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
74 D	46.99	1.4523E-09	173.6	104.1	249.5	124.7	UL-RL	2.4478E+05	324.4	130.9
1.000	1.000	235.0	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
75 D	47.65	-1.5662E-09	176.1	105.3	252.0	126.0	UL-RL	2.4478E+05	324.2	132.9
1.000	1.000	238.2	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
76 D	24.15	-4.5706E-09	178.6	106.6	254.5	127.2	UL-RL	2.4478E+05	324.0	134.9
1.000	1.000	241.5	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						

```
+-----------------------------------------------------------------------------------------------------------------------------+
|                   PARATIEPLUS(TM)   NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*                  |
|                                                                                                                             |
|                                                ParatiePlus                                                                  |
|                                    Exe Time :28 January 2022   16:22:51                                                     |
+-----------------------------------------------------------------------------------------------------------------------------+
New Project


S T R E S S   R E S U L T S   F O R   G R O U P   N O.   2

0_R                                                    :
ELEMENT TYPE    5 NO.OF ELEMENTS. IN THIS GROUP   76
C U R R E N T   T I M E   I S      2.0000 SUBINCREMENT 00001/00001

 HARDENING 2D SOIL ELEMENT

 ****** TOTAL STRESS FORMULATION *****

  EL *   FORCE      DISPL-Y  VERTICAL-P  HORIZON.-P     MAX-V-P     MAX-H-P          STATE   STIFFNESS Z-LEVEL      PORE       E FAC-
TOR    UFACTOR       Peq          Su_a        Su_p        Cohe_a      Cohe_p     LAYER                              ZFO         QS
QSL          ZD          ZPL          Kz
 ------------------------------------------------------------------------------------------------------------------------------
-----------------------------------------------------------------------------------------------------------------------------
-----------------------------------------------
   1 D  3.1149E-03  4.5879E-07   0.000      3.1149E-02   76.00       38.00          UL-RL  6.7893E+04   339.0       0.000
1.000       1.000      3.1149E-02   0.000       0.000       10.00       10.00     Aate_364268_2050_L_0               0.0000
0.0000      0.0000       0.0000      0.0000      0.0000
   2 D   1.748      4.5559E-07   3.800       8.738       79.80       39.90          UL-RL  6.7893E+04   338.8       0.000
1.000       1.000       8.738       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0               0.0000
0.0000      0.0000       0.0000      0.0000      0.0000
   3 D   2.527      4.5237E-07   7.600       12.63       83.60       41.80          UL-RL  6.7893E+04   338.6       0.000
1.000       1.000       12.63       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0               0.0000
0.0000      0.0000       0.0000      0.0000      0.0000
   4 D   3.163      4.4911E-07   11.40       15.81       87.40       43.70          UL-RL  6.7893E+04   338.4       0.000
1.000       1.000       15.81       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0               0.0000
0.0000      0.0000       0.0000      0.0000      0.0000
   5 D   3.729      4.4571E-07   15.20       18.65       91.20       45.60          UL-RL  6.7893E+04   338.2       0.000
1.000       1.000       18.65       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0               0.0000
0.0000      0.0000       0.0000      0.0000      0.0000
   6 D   4.255      4.4209E-07   19.00       21.27       95.00       47.50          UL-RL  6.7893E+04   338.0       0.000
1.000       1.000       21.27       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0               0.0000
0.0000      0.0000       0.0000      0.0000      0.0000
   7 D   4.752      4.3809E-07   22.80       23.76       98.80       49.40          UL-RL  6.7893E+04   337.8       0.000
1.000       1.000       23.76       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0               0.0000
0.0000      0.0000       0.0000      0.0000      0.0000
   8 D   5.230      4.3354E-07   26.60       26.15       102.6       51.30          UL-RL  6.7893E+04   337.6       0.000
1.000       1.000       26.15       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0               0.0000
0.0000      0.0000       0.0000      0.0000      0.0000
   9 D   5.730     -2.7246E-06   29.31       27.56       105.0       52.52          UL-RL  6.7893E+04   337.4       1.091
1.000       1.000       28.65       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0               0.0000
0.0000      0.0000       0.0000      0.0000      0.0000
  10 D   6.348     -2.6420E-06   31.12       28.65       106.9       53.43          UL-RL  6.7893E+04   337.2       3.086
1.000       1.000       31.74       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0               0.0000
0.0000      0.0000       0.0000      0.0000      0.0000
  11 D   6.962     -2.5606E-06   32.92       29.73       108.7       54.33          UL-RL  6.7893E+04   337.0       5.080
1.000       1.000       34.81       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0               0.0000
0.0000      0.0000       0.0000      0.0000      0.0000
  12 D   7.575     -2.4805E-06   34.73       30.80       110.5       55.24          UL-RL  6.7893E+04   336.8       7.075
1.000       1.000       37.88       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0               0.0000
0.0000      0.0000       0.0000      0.0000      0.0000
  13 D   8.186     -2.4018E-06   36.53       31.86       112.3       56.14          UL-RL  6.7893E+04   336.6       9.069
1.000       1.000       40.93       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0               0.0000
0.0000      0.0000       0.0000      0.0000      0.0000
  14 D   8.795     -2.3244E-06   38.34       32.91       114.1       57.05          UL-RL  6.7893E+04   336.4       11.06
1.000       1.000       43.98       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0               0.0000
0.0000      0.0000       0.0000      0.0000      0.0000
  15 D   9.403     -2.2484E-06   40.14       33.95       115.9       57.95          UL-RL  6.7893E+04   336.2       13.06
1.000       1.000       47.01       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0               0.0000
0.0000      0.0000       0.0000      0.0000      0.0000
  16 D   10.01     -2.1737E-06   41.95       34.99       117.7       58.86          UL-RL  6.7893E+04   336.0       15.05
1.000       1.000       50.04       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0               0.0000
0.0000      0.0000       0.0000      0.0000      0.0000
  17 D   10.61     -2.1002E-06   43.76       36.02       119.5       59.76          UL-RL  6.7893E+04   335.8       17.05
1.000       1.000       53.06       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0               0.0000
0.0000      0.0000       0.0000      0.0000      0.0000
  18 D   11.22     -2.0278E-06   45.56       37.04       121.3       60.67          UL-RL  6.7893E+04   335.6       19.04
1.000       1.000       56.08       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0               0.0000
0.0000      0.0000       0.0000      0.0000      0.0000
  19 D   11.82     -1.9562E-06   47.37       38.05       123.1       61.57          UL-RL  6.7893E+04   335.4       21.04
1.000       1.000       59.09       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0               0.0000
0.0000      0.0000       0.0000      0.0000      0.0000
  20 D   12.42     -1.8853E-06   49.17       39.06       124.9       62.47          UL-RL  6.7893E+04   335.2       23.03
1.000       1.000       62.10       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0               0.0000
0.0000      0.0000       0.0000      0.0000      0.0000
  21 D   14.03     -8.0599E-08   50.98       45.15       126.8       71.24          UL-RL  3.7492E+05   335.0       25.03
1.000       1.000       70.17       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0               0.0000
0.0000      0.0000       0.0000      0.0000      0.0000
  22 D   14.68     -8.3999E-08   52.98       46.39       128.8       72.37          UL-RL  3.7492E+05   334.8       27.02
```

```
1.000       1.000       73.41       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  23 D   15.33     -8.7262E-08   54.99       47.63       130.8       73.50          UL-RL  3.7492E+05   334.6       29.02
1.000       1.000       76.64       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  24 D   15.97     -9.0184E-08   56.99       48.86       132.8       74.63          UL-RL  3.7492E+05   334.4       31.01
1.000       1.000       79.87       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  25 D   16.62     -9.2597E-08   59.00       50.08       134.8       75.76          UL-RL  3.7492E+05   334.2       33.01
1.000       1.000       83.09       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  26 D   17.26     -9.4368E-08   61.01       51.31       136.8       76.88          UL-RL  3.7492E+05   334.0       35.00
1.000       1.000       86.31       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  27 D   17.90     -9.5394E-08   63.01       52.52       138.8       78.01          UL-RL  3.7492E+05   333.8       36.99
1.000       1.000       89.52       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  28 D   18.55     -9.5599E-08   65.02       53.74       140.8       79.14          UL-RL  3.7492E+05   333.6       38.99
1.000       1.000       92.73       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  29 D   19.19     -9.4928E-08   67.02       54.95       142.8       80.27          UL-RL  3.7492E+05   333.4       40.98
1.000       1.000       95.94       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  30 D   19.83     -9.3346E-08   69.03       56.16       144.8       81.40          UL-RL  3.7492E+05   333.2       42.98
1.000       1.000       99.14       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  31 D   20.47     -9.0835E-08   71.03       57.37       146.9       82.53          UL-RL  3.7492E+05   333.0       44.97
1.000       1.000       102.3       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  32 D   21.11     -8.7393E-08   73.04       58.57       148.9       83.66          UL-RL  3.7492E+05   332.8       46.97
1.000       1.000       105.5       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  33 D   21.75     -8.3024E-08   75.05       59.77       150.9       84.79          UL-RL  3.7492E+05   332.6       48.96
1.000       1.000       108.7       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  34 D   22.38     -7.7746E-08   77.05       60.97       152.9       85.92          UL-RL  3.7492E+05   332.4       50.96
1.000       1.000       111.9       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  35 D   23.02     -7.1583E-08   79.06       62.16       154.9       87.05          UL-RL  3.7492E+05   332.2       52.95
1.000       1.000       115.1       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  36 D   23.66     -6.4566E-08   81.06       63.36       156.9       88.18          UL-RL  3.7492E+05   332.0       54.95
1.000       1.000       118.3       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  37 D   24.30     -5.6731E-08   83.07       64.55       158.9       89.31          UL-RL  3.7492E+05   331.8       56.94
1.000       1.000       121.5       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  38 D   24.93     -4.8114E-08   85.07       65.74       160.9       90.44          UL-RL  3.7492E+05   331.6       58.94
1.000       1.000       124.7       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  39 D   25.57     -3.8769E-08   87.08       66.93       162.9       91.56          UL-RL  3.7492E+05   331.4       60.93
1.000       1.000       127.9       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  40 D   26.21     -2.8740E-08   89.08       68.11       164.9       92.69          UL-RL  3.7492E+05   331.2       62.93
1.000       1.000       131.0       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  41 D   25.31     -8.6463E-08   91.09       61.64       166.9       83.47          UL-RL  1.8384E+05   331.0       64.92
1.000       1.000       126.6       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  42 D   25.97     -8.6789E-08   93.59       62.95       169.4       84.72          UL-RL  1.8384E+05   330.8       66.92
1.000       1.000       129.9       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  43 D   26.63     -8.6597E-08   96.09       64.25       171.9       85.97          UL-RL  1.8384E+05   330.6       68.92
1.000       1.000       133.2       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  44 D   27.30     -8.5939E-08   98.59       65.56       174.4       87.22          UL-RL  1.8384E+05   330.4       70.92
1.000       1.000       136.5       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  45 D   27.96     -8.4868E-08   101.1       66.86       176.9       88.47          UL-RL  1.8384E+05   330.2       72.92
1.000       1.000       139.8       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  46 D   28.61     -8.3430E-08   103.6       68.16       179.5       89.73          UL-RL  1.8384E+05   330.0       74.92
1.000       1.000       143.1       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  47 D   29.27     -8.1671E-08   106.1       69.45       182.0       90.98          UL-RL  1.8384E+05   329.8       76.92
1.000       1.000       146.4       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  48 D   29.93     -7.9636E-08   108.6       70.75       184.5       92.23          UL-RL  1.8384E+05   329.6       78.92
1.000       1.000       149.7       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  49 D   30.59     -7.7361E-08   111.1       72.04       187.0       93.48          UL-RL  1.8384E+05   329.4       80.92
1.000       1.000       153.0       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  50 D   31.25     -7.4884E-08   113.6       73.34       189.5       94.73          UL-RL  1.8384E+05   329.2       82.92
1.000       1.000       156.3       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  51 D   31.91     -7.2237E-08   116.1       74.63       192.0       95.98          UL-RL  1.8384E+05   329.0       84.92
1.000       1.000       159.5       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  52 D   32.57     -6.9450E-08   118.6       75.92       194.5       97.23          UL-RL  1.8384E+05   328.8       86.92
1.000       1.000       162.8       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
```

53 D	33.22	-6.6549E-08	121.1	77.21	197.0	98.48	UL-RL	1.8384E+05	328.6	88.91
1.000	1.000	166.1	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
54 D	33.88	-6.3558E-08	123.6	78.49	199.5	99.73	UL-RL	1.8384E+05	328.4	90.91
1.000	1.000	169.4	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
55 D	34.54	-6.0496E-08	126.1	79.78	202.0	101.0	UL-RL	1.8384E+05	328.2	92.91
1.000	1.000	172.7	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
56 D	35.20	-5.7384E-08	128.6	81.07	204.5	102.2	UL-RL	1.8384E+05	328.0	94.91
1.000	1.000	176.0	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
57 D	35.85	-5.4237E-08	131.1	82.35	207.0	103.5	UL-RL	1.8384E+05	327.8	96.91
1.000	1.000	179.3	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
58 D	36.51	-5.1067E-08	133.6	83.63	209.5	104.7	UL-RL	1.8384E+05	327.6	98.91
1.000	1.000	182.5	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
59 D	37.17	-4.7886E-08	136.1	84.92	212.0	106.0	UL-RL	1.8384E+05	327.4	100.9
1.000	1.000	185.8	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
60 D	37.82	-4.4702E-08	138.6	86.20	214.5	107.2	UL-RL	1.8384E+05	327.2	102.9
1.000	1.000	189.1	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
61 D	38.48	-4.1522E-08	141.1	87.48	217.0	108.5	UL-RL	1.8384E+05	327.0	104.9
1.000	1.000	192.4	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
62 D	39.13	-3.8352E-08	143.6	88.76	219.5	109.7	UL-RL	1.8384E+05	326.8	106.9
1.000	1.000	195.7	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
63 D	39.79	-3.5195E-08	146.1	90.04	222.0	111.0	UL-RL	1.8384E+05	326.6	108.9
1.000	1.000	198.9	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
64 D	40.45	-3.2054E-08	148.6	91.31	224.5	112.2	UL-RL	1.8384E+05	326.4	110.9
1.000	1.000	202.2	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
65 D	41.10	-2.8931E-08	151.1	92.59	227.0	113.5	UL-RL	1.8384E+05	326.2	112.9
1.000	1.000	205.5	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
66 D	41.76	-2.5826E-08	153.6	93.87	229.5	114.7	UL-RL	1.8384E+05	326.0	114.9
1.000	1.000	208.8	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
67 D	42.41	-2.2738E-08	156.1	95.14	232.0	116.0	UL-RL	1.8384E+05	325.8	116.9
1.000	1.000	212.1	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
68 D	43.07	-1.9666E-08	158.6	96.42	234.5	117.2	UL-RL	1.8384E+05	325.6	118.9
1.000	1.000	215.3	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
69 D	43.72	-1.6608E-08	161.1	97.69	237.0	118.5	UL-RL	1.8384E+05	325.4	120.9
1.000	1.000	218.6	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
70 D	44.38	-1.3562E-08	163.6	98.97	239.5	119.7	UL-RL	1.8384E+05	325.2	122.9
1.000	1.000	221.9	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
71 D	45.03	-1.0524E-08	166.1	100.2	242.0	121.0	UL-RL	1.8384E+05	325.0	124.9
1.000	1.000	225.2	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
72 D	45.68	-7.4958E-09	168.6	101.5	244.5	122.2	UL-RL	1.8384E+05	324.8	126.9
1.000	1.000	228.4	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
73 D	46.34	-4.4724E-09	171.1	102.8	247.0	123.5	UL-RL	1.8384E+05	324.6	128.9
1.000	1.000	231.7	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
74 D	46.99	-1.4523E-09	173.6	104.1	249.5	124.7	UL-RL	1.8384E+05	324.4	130.9
1.000	1.000	235.0	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
75 D	47.65	1.5662E-09	176.1	105.3	252.0	126.0	UL-RL	1.8384E+05	324.2	132.9
1.000	1.000	238.2	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
76 D	24.15	4.5706E-09	178.6	106.6	254.5	127.2	UL-RL	1.8384E+05	324.0	134.9
1.000	1.000	241.5	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						

New Project

S T R E S S   R E S U L T S   F O R   G R O U P   N O.   3

Pali1500_253215   :
ELEMENT TYPE   2 NO.OF ELEMENTS. IN THIS GROUP   75
C U R R E N T   T I M E   I S   2.0000 SUBINCREMENT 00001/00001

 WALL2D ELEMENT

EL	TA	TB	MA	MB
1	-3.11486E-03	3.11486E-03	1.64313E-14	-6.22972E-04
2	-1.89641E-02	1.89641E-02	6.22972E-04	-4.41579E-03
3	-3.47015E-02	3.47015E-02	4.41579E-03	-1.13561E-02
4	-5.03253E-02	5.03253E-02	1.13561E-02	-2.14212E-02
5	-6.58310E-02	6.58310E-02	2.14212E-02	-3.45939E-02
6	-8.12105E-02	8.12105E-02	3.45939E-02	-5.08360E-02
7	-9.64509E-02	9.64509E-02	5.08360E-02	-7.01262E-02
8	-0.11153	0.11153	7.01262E-02	-9.24329E-02
9	-8.50802E-02	8.50802E-02	9.24329E-02	-0.10945
10	-5.99623E-02	5.99623E-02	0.10945	-0.12144
11	-3.60699E-02	3.60699E-02	0.12144	-0.12866
12	-1.32997E-02	1.32997E-02	0.12866	-0.13132
13	8.44483E-03	-8.44483E-03	0.13132	-0.12963
14	2.92534E-02	-2.92534E-02	0.12963	-0.12377
15	4.92098E-02	-4.92098E-02	0.12377	-0.11393
16	6.83903E-02	-6.83903E-02	0.11393	-0.10025
17	8.68630E-02	-8.68630E-02	0.10025	-8.28822E-02
18	0.10469	-0.10469	8.28822E-02	-6.19446E-02
19	0.12191	-0.12191	6.19446E-02	-3.75617E-02
20	0.13858	-0.13858	3.75617E-02	-9.84503E-03
21	0.11650	-0.11650	9.84503E-03	1.34673E-02
22	9.64532E-02	-9.64532E-02	-1.34673E-02	3.27579E-02
23	7.84239E-02	-7.84239E-02	-3.27579E-02	4.84427E-02
24	6.23700E-02	-6.23700E-02	-4.84427E-02	6.09167E-02
25	4.82159E-02	-4.82159E-02	-6.09167E-02	7.05599E-02
26	3.58614E-02	-3.58614E-02	-7.05599E-02	7.77321E-02
27	2.51878E-02	-2.51878E-02	-7.77321E-02	8.27697E-02
28	1.60620E-02	-1.60620E-02	-8.27697E-02	8.59821E-02
29	8.34066E-03	-8.34066E-03	-8.59821E-02	8.76511E-02
30	1.87432E-03	-1.87432E-03	-8.76511E-02	8.80259E-02
31	-3.49154E-03	3.49154E-03	-8.80259E-02	8.73276E-02
32	-7.91218E-03	7.91218E-03	-8.73276E-02	8.57452E-02
33	-1.15422E-02	1.15422E-02	-8.57452E-02	8.34368E-02
34	-1.45339E-02	1.45339E-02	-8.34368E-02	8.05300E-02
35	-1.70357E-02	1.70357E-02	-8.05300E-02	7.71228E-02
36	-1.91915E-02	1.91915E-02	-7.71228E-02	7.32845E-02
37	-2.11389E-02	2.11389E-02	-7.32845E-02	6.90546E-02
38	-2.30092E-02	2.30092E-02	-6.90546E-02	6.44528E-02
39	-2.49263E-02	2.49263E-02	-6.44528E-02	5.94675E-02
40	-2.70057E-02	2.70057E-02	-5.94675E-02	5.40664E-02
41	-2.62347E-02	2.62347E-02	-5.40664E-02	4.88195E-02
42	-2.52472E-02	2.52472E-02	-4.88195E-02	4.37700E-02
43	-2.40874E-02	2.40874E-02	-4.37700E-02	3.89525E-02
44	-2.27950E-02	2.27950E-02	-3.89525E-02	3.43935E-02
45	-2.14051E-02	2.14051E-02	-3.43935E-02	3.01125E-02
46	-1.99490E-02	1.99490E-02	-3.01125E-02	2.61207E-02
47	-1.84540E-02	1.84540E-02	-2.61207E-02	2.24299E-02
48	-1.69438E-02	1.69438E-02	-2.24299E-02	1.90411E-02
49	-1.54388E-02	1.54388E-02	-1.90411E-02	1.59534E-02
50	-1.39562E-02	1.39562E-02	-1.59534E-02	1.31621E-02
51	-1.25105E-02	1.25105E-02	-1.31621E-02	1.06600E-02
52	-1.11138E-02	1.11138E-02	-1.06600E-02	8.43730E-03
53	-9.77565E-03	9.77565E-03	-8.43730E-03	6.48217E-03
54	-8.50386E-03	8.50386E-03	-6.48217E-03	4.78054E-03
55	-7.30435E-03	7.30435E-03	-4.78054E-03	3.31967E-03
56	-6.18145E-03	6.18145E-03	-3.31967E-03	2.08338E-03
57	-5.13824E-03	5.13824E-03	-2.08338E-03	1.05574E-03
58	-4.17663E-03	4.17663E-03	-1.05574E-03	2.20409E-04
59	-3.29764E-03	3.29764E-03	-2.20409E-04	-4.39119E-04
60	-2.50150E-03	2.50150E-03	4.39119E-04	-9.39419E-04
61	-1.78786E-03	1.78786E-03	9.39419E-04	-1.29699E-03
62	-1.15592E-03	1.15592E-03	1.29699E-03	-1.52829E-03
63	-6.04582E-04	6.04582E-04	1.52829E-03	-1.64921E-03
64	-1.32463E-04	1.32463E-04	1.64921E-03	-1.67570E-03
65	2.61889E-04	-2.61889E-04	1.67570E-03	-1.62332E-03
66	5.79947E-04	-5.79947E-04	1.62332E-03	-1.50733E-03
67	8.23142E-04	-8.23142E-04	1.50733E-03	-1.34270E-03
68	9.92795E-04	-9.92795E-04	1.34270E-03	-1.14415E-03
69	1.09008E-03	-1.09008E-03	1.14415E-03	-9.26129E-04
70	1.11600E-03	-1.11600E-03	9.26129E-04	-7.02818E-04

```
   71 1.07130E-03-1.07130E-03 7.02818E-04-4.88558E-04
   72 9.56625E-04-9.56625E-04 4.88558E-04-2.97233E-04
   73 7.72372E-04-7.72372E-04 2.97233E-04-1.42759E-04
   74 5.18769E-04-5.18769E-04 1.42759E-04-3.90049E-05
   75 1.95906E-04-1.95906E-04 3.90049E-05 5.55112E-17

ITER     0 RNORM = 0.000     RMNORM= 0.000
           RINORM=0.6389E+05 RIMNOR=0.5181
           RENORM= 7856.     REMNOR=0.1559E-24 RATIO =0.3507     TOLER =0.1000E-03  NOT CONVERGED
           RFMAX = 42.19     RMMAX =0.1313
           RTSMAL=0.1000E-03 RMSMAL=0.1000E-05
           RDT   =0.6389E+05 RDR   =0.5181
           RATIOT=0.3507     RATIOR= 0.000
           MAX UN= 17.37     IEQ=    61 NODE     31 DOF   1  Y-DISPL.F
           MIN UN=-.1306E-12 IEQ=    32 NODE     16 DOF   2   X-ROT. F
           NO. OF CONTACT CONSTRAINT VIOLATIONS     0


ITER     2 RNORM = 0.000     RMNORM= 0.000
           RINORM=0.6389E+05 RIMNOR=0.5181
           RENORM= 1015.     REMNOR=0.6228E-18 RATIO =0.1260     TOLER =0.1000E-03  NOT CONVERGED
           RFMAX = 42.19     RMMAX =0.1313
           RTSMAL=0.1000E-03 RMSMAL=0.1000E-05
           RDT   =0.6389E+05 RDR   =0.5181
           RATIOT=0.1260     RATIOR= 0.000
           MAX UN= 10.20     IEQ=    41 NODE     21 DOF   1  Y-DISPL.F
           MIN UN=-.2805E-08 IEQ=    25 NODE     13 DOF   1  Y-DISPL.F
           NO. OF CONTACT CONSTRAINT VIOLATIONS     0


ITER     3 RNORM = 0.000     RMNORM= 0.000
           RINORM=0.6389E+05 RIMNOR=0.5181
           RENORM= 269.5     REMNOR=0.7001E-18 RATIO =0.6495E-01 TOLER =0.1000E-03  NOT CONVERGED
           RFMAX = 42.19     RMMAX =0.1313
           RTSMAL=0.1000E-03 RMSMAL=0.1000E-05
           RDT   =0.6389E+05 RDR   =0.5181
           RATIOT=0.6495E-01 RATIOR= 0.000
           MAX UN= 7.721     IEQ=    67 NODE     34 DOF   1  Y-DISPL.F
           MIN UN=-.4350E-08 IEQ=    49 NODE     25 DOF   1  Y-DISPL.F
           NO. OF CONTACT CONSTRAINT VIOLATIONS     0


ITER     4 RNORM = 0.000     RMNORM= 0.000
           RINORM=0.6389E+05 RIMNOR=0.5181
           RENORM= 24.37     REMNOR=0.3118E-17 RATIO =0.1953E-01 TOLER =0.1000E-03  NOT CONVERGED
           RFMAX = 42.19     RMMAX =0.1313
           RTSMAL=0.1000E-03 RMSMAL=0.1000E-05
           RDT   =0.6389E+05 RDR   =0.5181
           RATIOT=0.1953E-01 RATIOR= 0.000
           MAX UN= 4.224     IEQ=    81 NODE     41 DOF   1  Y-DISPL.F
           MIN UN=-.1920E-07 IEQ=    23 NODE     12 DOF   1  Y-DISPL.F
           NO. OF CONTACT CONSTRAINT VIOLATIONS     0


ITER     5 RNORM = 0.000     RMNORM= 0.000
           RINORM=0.6389E+05 RIMNOR=0.5181
           RENORM=0.4532E-01 REMNOR=0.9019E-18 RATIO =0.8423E-03 TOLER =0.1000E-03  NOT CONVERGED
           RFMAX = 42.19     RMMAX =0.1313
           RTSMAL=0.1000E-03 RMSMAL=0.1000E-05
           RDT   =0.6389E+05 RDR   =0.5181
           RATIOT=0.8423E-03 RATIOR= 0.000
           MAX UN=0.2129     IEQ=    87 NODE     44 DOF   1  Y-DISPL.F
           MIN UN=-.5408E-08 IEQ=    39 NODE     20 DOF   1  Y-DISPL.F
           NO. OF CONTACT CONSTRAINT VIOLATIONS     0


ITER     6 RNORM = 0.000     RMNORM= 0.000
           RINORM=0.6389E+05 RIMNOR=0.5181
           RENORM=0.2961E-15 REMNOR=0.8831E-18 RATIO =0.6807E-10 TOLER =0.1000E-03      CONVERGED !
           RFMAX = 42.19     RMMAX =0.1313
           RTSMAL=0.1000E-03 RMSMAL=0.1000E-05
           RDT   =0.6389E+05 RDR   =0.5181
           RATIOT=0.6807E-10 RATIOR= 0.000
           MAX UN=0.7551E-08 IEQ=     7 NODE      4 DOF   1  Y-DISPL.F
           MIN UN=-.6264E-08 IEQ=    37 NODE     19 DOF   1  Y-DISPL.F
           NO. OF CONTACT CONSTRAINT VIOLATIONS     0
```

```
+-----------------------------------------------------------------------------------------------------------------------+
|                  PARATIEPLUS(TM)   NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*             |
|                                                                                                                       |
|                                                ParatiePlus                                                            |
|                                  Exe Time :28 January 2022   16:22:51                                                 |
+-----------------------------------------------------------------------------------------------------------------------+
New Project
SOLUTION REACHED USING     6 ITERATIONS ON   80

P R I N T   O U T   F O R   T I M E   S T E P   3     ( AT TIME   3.000     ) SUBINCREMENT 00001/00001

PRINT OUT OF ACTIVE COMPONENTS (FIXED NODES ARE NOT PRINTED OUT)

          Y-DISPL.F        X-ROT. F
            02               04
    1   6.3345109E-03  -6.3304908E-04
    2   6.2079010E-03  -6.3304908E-04
    3   6.0812912E-03  -6.3304908E-04
    4   5.9546814E-03  -6.3304908E-04
    5   5.8280716E-03  -6.3304908E-04
    6   5.7013985E-03  -6.3304908E-04
    7   5.5747887E-03  -6.3304908E-04
    8   5.4481789E-03  -6.3304908E-04
    9   5.3184162E-03  -6.3304908E-04
   10   5.1918952E-03  -6.3304873E-04
   11   5.0653745E-03  -6.3304633E-04
   12   4.9388547E-03  -6.3303802E-04
   13   4.8123378E-03  -6.3301676E-04
   14   4.6857640E-03  -6.3297153E-04
   15   4.5592661E-03  -6.3288744E-04
   16   4.4327905E-03  -6.3274559E-04
   17   4.3063509E-03  -6.3252316E-04
   18   4.1799660E-03  -6.3219336E-04
   19   4.0536604E-03  -6.3172545E-04
   20   3.9274650E-03  -6.3108475E-04
   21   3.8031524E-03  -6.3023264E-04
   22   3.6771645E-03  -6.2911718E-04
   23   3.5514943E-03  -6.2767486E-04
   24   3.4261511E-03  -6.2583542E-04
   25   3.3012217E-03  -6.2352387E-04
   26   3.1768084E-03  -6.2066006E-04
   27   3.0530302E-03  -6.1715862E-04
   28   2.9300235E-03  -6.1292903E-04
   29   2.8079435E-03  -6.0787558E-04
   30   2.6869048E-03  -6.0189412E-04
   31   2.5672239E-03  -5.9488454E-04
   32   2.4490545E-03  -5.8677203E-04
   33   2.3326202E-03  -5.7753301E-04
   34   2.2181465E-03  -5.6716763E-04
   35   2.1058569E-03  -5.5569597E-04
   36   1.9959697E-03  -5.4315022E-04
   37   1.8886958E-03  -5.2957069E-04
   38   1.7841857E-03  -5.1499825E-04
   39   1.6827355E-03  -4.9950395E-04
   40   1.5844717E-03  -4.8314536E-04
   41   1.4894918E-03  -4.6599517E-04
   42   1.3980683E-03  -4.4817663E-04
   43   1.3102612E-03  -4.2985983E-04
   44   1.2261531E-03  -4.1121557E-04
   45   1.1457924E-03  -3.9241406E-04
   46   1.0691941E-03  -3.7361739E-04
   47   9.9630674E-04  -3.5496317E-04
   48   9.2715949E-04  -3.3660132E-04
   49   8.6164649E-04  -3.1863892E-04
   50   7.9967738E-04  -3.0117834E-04
   51   7.4114267E-04  -2.8430863E-04
   52   6.8591634E-04  -2.6810626E-04
   53   6.3385828E-04  -2.5263585E-04
   54   5.8481655E-04  -2.3795083E-04
   55   5.3860723E-04  -2.2408740E-04
   56   4.9510729E-04  -2.1109248E-04
   57   4.5411814E-04  -1.9898268E-04
   58   4.1546111E-04  -1.8777304E-04
   59   3.7895536E-04  -1.7747041E-04
   60   3.4441945E-04  -1.6807391E-04
   61   3.1167284E-04  -1.5957540E-04
   62   2.8053733E-04  -1.5195989E-04
   63   2.5082384E-04  -1.4520269E-04
   64   2.2239238E-04  -1.3928290E-04
   65   1.9506424E-04  -1.3416338E-04
   66   1.6868320E-04  -1.2980494E-04
   67   1.4310141E-04  -1.2616301E-04
   68   1.1818046E-04  -1.2318776E-04
   69   9.3792423E-05  -1.2082433E-04
   70   6.9820837E-05  -1.1901288E-04
   71   4.6149926E-05  -1.1768818E-04
   72   2.2712718E-05  -1.1678210E-04
   73  -5.7891257E-07  -1.1621965E-04
   74  -2.3785884E-05  -1.1592196E-04
```

```
75  -4.6952865E-05  -1.1580544E-04
76  -7.0003157E-05  -1.1578184E-04
```

```
+-----------------------------------------------------------------------------------------------------------------------+
|                  PARATIEPLUS(TM)   NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*             |
|                                                                                                                       |
|                                            ParatiePlus                                                                |
|                                  Exe Time :28 January 2022   16:22:51                                                 |
+-----------------------------------------------------------------------------------------------------------------------+
New Project


S T R E S S   R E S U L T S   F O R   G R O U P   N O.   1

0_L                                                    :
ELEMENT TYPE    5 NO.OF ELEMENTS. IN THIS GROUP   76
C U R R E N T   T I M E   I S      3.0000 SUBINCREMENT 00001/00001

 HARDENING 2D SOIL ELEMENT

 ****** TOTAL STRESS FORMULATION *****

  EL *   FORCE     DISPL-Y  VERTICAL-P  HORIZON.-P     MAX-V-P     MAX-H-P          STATE   STIFFNESS Z-LEVEL      PORE       E FAC-
TOR    UFACTOR       Peq          Su_a        Su_p        Cohe_a      Cohe_p     LAYER                                ZFO         QS
QSL          ZD          ZPL          Kz
 ------------------------------------------------------------------------------------------------------------------------------------
------------------------------------------------------------------------------------------------------------------------------------
-----------------------------------------------
   1 D   0.000     -6.3345E-03   0.000       0.000       76.00       38.00          ACTIVE   0.000       339.0       0.000
1.000       1.000       0.000       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   2 D   0.000     -6.2079E-03   3.800       0.000       79.80       39.90          ACTIVE   0.000       338.8       0.000
1.000       1.000       0.000       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   3 D   0.000     -6.0813E-03   7.600       0.000       83.60       41.80          ACTIVE   0.000       338.6       0.000
1.000       1.000       0.000       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   4 D   0.000     -5.9547E-03   11.40       0.000       87.40       43.70          ACTIVE   0.000       338.4       0.000
1.000       1.000       0.000       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   5 D   0.000     -5.8281E-03   15.20       0.000       91.20       45.60          ACTIVE   0.000       338.2       0.000
1.000       1.000       0.000       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   6 D   0.000     -5.7014E-03   19.00       0.000       95.00       47.50          ACTIVE   0.000       338.0       0.000
1.000       1.000       0.000       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   7 D   0.000     -5.5748E-03   22.80       0.000       98.80       49.40          ACTIVE   0.000       337.8       0.000
1.000       1.000       0.000       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   8 D   0.000     -5.4482E-03   26.60       0.000       102.6       51.30          ACTIVE   0.000       337.6       0.000
1.000       1.000       0.000       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   9 D  6.5762E-02 -5.3184E-03   30.07       0.000       105.7       52.96          ACTIVE   0.000       337.4       0.3288
1.000       1.000      0.3288       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  10 D  0.2534     -5.1919E-03   32.93       0.000       107.5       53.85          ACTIVE   0.000       337.2       1.267
1.000       1.000       1.267       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  11 D  0.4765     -5.0654E-03   35.80      0.1776       109.3       54.74          ACTIVE   0.000       337.0       2.205
1.000       1.000       2.383       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  12 D  0.8485     -4.9389E-03   38.66       1.099       111.1       55.64          ACTIVE   0.000       336.8       3.143
1.000       1.000       4.242       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  13 D   1.220     -4.8123E-03   41.52       2.021       112.9       56.53          ACTIVE   0.000       336.6       4.081
1.000       1.000       6.102       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  14 D   1.593     -4.6858E-03   44.38       2.943       114.7       57.42          ACTIVE   0.000       336.4       5.020
1.000       1.000       7.963       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  15 D   1.964     -4.5593E-03   47.25       3.864       116.4       58.31          ACTIVE   0.000       336.2       5.958
1.000       1.000       9.822       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  16 D   2.336     -4.4328E-03   50.11       4.786       118.2       59.21          ACTIVE   0.000       336.0       6.896
1.000       1.000       11.68       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  17 D   2.708     -4.3064E-03   52.97       5.707       120.0       60.10          ACTIVE   0.000       335.8       7.834
1.000       1.000       13.54       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  18 D   3.080     -4.1800E-03   55.83       6.629       121.8       60.99          ACTIVE   0.000       335.6       8.772
1.000       1.000       15.40       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  19 D   3.452     -4.0537E-03   58.69       7.550       123.6       61.88          ACTIVE   0.000       335.4       9.710
1.000       1.000       17.26       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  20 D   3.824     -3.9275E-03   61.56       8.472       125.4       62.78          ACTIVE   0.000       335.2       10.65
1.000       1.000       19.12       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  21 D   5.840     -3.8032E-03   64.42       17.61       127.2       71.54          ACTIVE   0.000       335.0       11.59
1.000       1.000       29.20       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  22 D   6.329     -3.6772E-03   67.48       19.12       129.2       72.65          ACTIVE   0.000       334.8       12.53
```

```
1.000       1.000       31.64       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  23 D   6.817     -3.5515E-03   70.54       20.62       131.2       73.77         ACTIVE   0.000       334.6       13.46
1.000       1.000       34.09       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  24 D   7.305     -3.4262E-03   73.60       22.13       133.2       74.89         ACTIVE   0.000       334.4       14.40
1.000       1.000       36.53       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  25 D   7.794     -3.3012E-03   76.67       23.63       135.2       76.00         ACTIVE   0.000       334.2       15.34
1.000       1.000       38.97       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  26 D   8.282     -3.1768E-03   79.73       25.13       137.1       77.12         ACTIVE   0.000       334.0       16.28
1.000       1.000       41.41       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  27 D   8.770     -3.0530E-03   82.79       26.64       139.1       78.24         ACTIVE   0.000       333.8       17.22
1.000       1.000       43.85       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  28 D   9.259     -2.9300E-03   85.85       28.14       141.1       79.35         ACTIVE   0.000       333.6       18.15
1.000       1.000       46.29       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  29 D   9.747     -2.8079E-03   88.91       29.64       143.1       80.47         ACTIVE   0.000       333.4       19.09
1.000       1.000       48.73       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  30 D   10.24     -2.6869E-03   91.98       31.15       145.1       81.59         ACTIVE   0.000       333.2       20.03
1.000       1.000       51.18       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  31 D   10.72     -2.5672E-03   95.04       32.65       147.1       82.70         ACTIVE   0.000       333.0       20.97
1.000       1.000       53.62       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  32 D   11.21     -2.4491E-03   98.10       34.15       149.1       83.82         ACTIVE   0.000       332.8       21.91
1.000       1.000       56.06       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  33 D   11.70     -2.3326E-03   101.2       35.66       151.1       84.93         ACTIVE   0.000       332.6       22.85
1.000       1.000       58.50       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  34 D   12.19     -2.2181E-03   104.2       37.16       153.1       86.05         ACTIVE   0.000       332.4       23.78
1.000       1.000       60.94       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  35 D   12.68     -2.1059E-03   107.3       38.66       155.1       87.17         ACTIVE   0.000       332.2       24.72
1.000       1.000       63.38       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  36 D   13.17     -1.9960E-03   110.3       40.17       157.1       88.28         ACTIVE   0.000       332.0       25.66
1.000       1.000       65.83       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  37 D   13.65     -1.8887E-03   113.4       41.67       159.0       89.40         ACTIVE   0.000       331.8       26.60
1.000       1.000       68.27       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  38 D   14.14     -1.7842E-03   116.5       43.17       161.0       90.52         ACTIVE   0.000       331.6       27.54
1.000       1.000       70.71       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  39 D   14.63     -1.6827E-03   119.5       44.68       163.0       91.63         ACTIVE   0.000       331.4       28.47
1.000       1.000       73.15       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  40 D   15.12     -1.5845E-03   122.6       46.18       165.0       92.75         ACTIVE   0.000       331.2       29.41
1.000       1.000       75.59       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  41 D   6.071     -1.4895E-03   125.7       0.000       167.0       83.51         ACTIVE   0.000       331.0       30.35
1.000       1.000       30.35       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  42 D   6.449     -1.3981E-03   128.3       0.000       169.5       84.76         ACTIVE   0.000       330.8       32.25
1.000       1.000       32.25       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  43 D   6.828     -1.3103E-03   130.9       0.000       172.0       86.01         ACTIVE   0.000       330.6       34.14
1.000       1.000       34.14       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  44 D   7.462     -1.2262E-03   133.5       1.274       174.5       87.26         UL-RL  6.1194E+04   330.4       36.03
1.000       1.000       37.31       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  45 D   9.082     -1.1458E-03   136.1       7.483       177.0       88.51         UL-RL  6.1194E+04   330.2       37.93
1.000       1.000       45.41       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  46 D   10.66     -1.0692E-03   138.7       13.46       179.5       89.76         UL-RL  6.1194E+04   330.0       39.82
1.000       1.000       53.28       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  47 D   12.19     -9.9631E-04   141.3       19.21       182.0       91.01         UL-RL  6.1194E+04   329.8       41.72
1.000       1.000       60.93       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  48 D   13.67     -9.2716E-04   143.9       24.73       184.5       92.26         UL-RL  6.1194E+04   329.6       43.61
1.000       1.000       68.34       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  49 D   15.11     -8.6165E-04   146.5       30.03       187.0       93.51         UL-RL  6.1194E+04   329.4       45.50
1.000       1.000       75.54       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  50 D   16.50     -7.9968E-04   149.1       35.11       189.5       94.76         UL-RL  6.1194E+04   329.2       47.40
1.000       1.000       82.51       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  51 D   17.86     -7.4114E-04   151.7       39.98       192.0       96.01         UL-RL  6.1194E+04   329.0       49.29
1.000       1.000       89.28       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  52 D   19.17     -6.8592E-04   154.3       44.65       194.5       97.26         UL-RL  6.1194E+04   328.8       51.19
1.000       1.000       95.84       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
```

53 D	20.44	-6.3386E-04	156.9	49.13	197.0	98.51	UL-RL	6.1194E+04	328.6	53.08	
1.000	1.000	102.2	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
54 D	21.68	-5.8482E-04	159.5	53.41	199.5	99.76	UL-RL	6.1194E+04	328.4	54.97	
1.000	1.000	108.4	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
55 D	22.88	-5.3861E-04	162.1	57.53	202.0	101.0	UL-RL	6.1194E+04	328.2	56.87	
1.000	1.000	114.4	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
56 D	24.05	-4.9511E-04	164.8	61.48	204.5	102.3	UL-RL	6.1194E+04	328.0	58.76	
1.000	1.000	120.2	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
57 D	25.19	-4.5412E-04	167.4	65.27	207.0	103.5	UL-RL	6.1194E+04	327.8	60.66	
1.000	1.000	125.9	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
58 D	26.29	-4.1546E-04	170.0	68.92	209.5	104.8	UL-RL	6.1194E+04	327.6	62.55	
1.000	1.000	131.5	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
59 D	27.38	-3.7896E-04	172.6	72.44	212.0	106.0	UL-RL	6.1194E+04	327.4	64.44	
1.000	1.000	136.9	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
60 D	28.44	-3.4442E-04	175.2	75.84	214.5	107.3	UL-RL	6.1194E+04	327.2	66.34	
1.000	1.000	142.2	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
61 D	29.47	-3.1167E-04	177.8	79.13	217.0	108.5	UL-RL	6.1194E+04	327.0	68.23	
1.000	1.000	147.4	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
62 D	30.49	-2.8054E-04	180.4	82.32	219.5	109.8	UL-RL	6.1194E+04	326.8	70.12	
1.000	1.000	152.4	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
63 D	31.49	-2.5082E-04	183.0	85.43	222.0	111.0	UL-RL	6.1194E+04	326.6	72.02	
1.000	1.000	157.4	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
64 D	32.47	-2.2239E-04	185.6	88.45	224.5	112.2	UL-RL	6.1194E+04	326.4	73.91	
1.000	1.000	162.4	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
65 D	33.44	-1.9506E-04	188.2	91.41	227.0	113.5	UL-RL	6.1194E+04	326.2	75.81	
1.000	1.000	167.2	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
66 D	34.40	-1.6868E-04	190.8	94.31	229.5	114.7	UL-RL	6.1194E+04	326.0	77.70	
1.000	1.000	172.0	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
67 D	35.35	-1.4310E-04	193.4	97.16	232.0	116.0	UL-RL	6.1194E+04	325.8	79.59	
1.000	1.000	176.8	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
68 D	36.29	-1.1818E-04	196.0	99.97	234.5	117.2	UL-RL	6.1194E+04	325.6	81.49	
1.000	1.000	181.5	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
69 D	37.22	-9.3792E-05	198.6	102.7	237.0	118.5	UL-RL	6.1194E+04	325.4	83.38	
1.000	1.000	186.1	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
70 D	38.15	-6.9821E-05	201.2	105.5	239.5	119.7	UL-RL	6.1194E+04	325.2	85.28	
1.000	1.000	190.8	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
71 D	39.08	-4.6150E-05	203.8	108.2	242.0	121.0	UL-RL	6.1194E+04	325.0	87.17	
1.000	1.000	195.4	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
72 D	40.00	-2.2713E-05	206.5	110.9	244.5	122.2	UL-RL	6.1194E+04	324.8	89.06	
1.000	1.000	200.0	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
73 D	40.92	5.7891E-07	209.1	113.7	247.0	123.5	UL-RL	6.1194E+04	324.6	90.96	
1.000	1.000	204.6	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
74 D	41.84	2.3786E-05	211.7	116.4	249.5	124.7	UL-RL	6.1194E+04	324.4	92.85	
1.000	1.000	209.2	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
75 D	42.76	4.6953E-05	214.3	119.1	252.0	126.0	UL-RL	6.1194E+04	324.2	94.75	
1.000	1.000	213.8	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
76 D	21.84	7.0003E-05	216.9	121.7	254.5	127.2	UL-RL	6.1194E+04	324.0	96.63	
1.000	1.000	218.4	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							

New Project

S T R E S S R E S U L T S F O R G R O U P N O. 2

0_R :
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 76
C U R R E N T T I M E I S 3.0000 SUBINCREMENT 00001/00001

HARDENING 2D SOIL ELEMENT

****** TOTAL STRESS FORMULATION *****

EL *	FORCE	DISPL-Y	VERTICAL-P	HORIZON.-P	MAX-V-P	MAX-H-P	STATE	STIFFNESS	Z-LEVEL	PORE	E FAC-
TOR	UFACTOR	Peq	Su_a	Su_p	Cohe_a	Cohe_p	LAYER			ZFO	QS
QSL	ZD	ZPL	Kz								
1	0.000	--	--	--	--	--	REMOVED	--	339.0	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
2	0.000	--	--	--	--	--	REMOVED	--	338.8	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
3	0.000	--	--	--	--	--	REMOVED	--	338.6	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
4	0.000	--	--	--	--	--	REMOVED	--	338.4	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
5	0.000	--	--	--	--	--	REMOVED	--	338.2	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
6	0.000	--	--	--	--	--	REMOVED	--	338.0	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
7	0.000	--	--	--	--	--	REMOVED	--	337.8	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
8	0.000	--	--	--	--	--	REMOVED	--	337.6	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
9	0.000	--	--	--	--	--	REMOVED	--	337.4	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
10	0.000	--	--	--	--	--	REMOVED	--	337.2	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
11	0.000	--	--	--	--	--	REMOVED	--	337.0	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
12	0.000	--	--	--	--	--	REMOVED	--	336.8	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
13	0.000	--	--	--	--	--	REMOVED	--	336.6	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
14	0.000	--	--	--	--	--	REMOVED	--	336.4	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
15	0.000	--	--	--	--	--	REMOVED	--	336.2	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
16	0.000	--	--	--	--	--	REMOVED	--	336.0	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
17	0.000	--	--	--	--	--	REMOVED	--	335.8	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
18	0.000	--	--	--	--	--	REMOVED	--	335.6	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
19	0.000	--	--	--	--	--	REMOVED	--	335.4	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
20	0.000	--	--	--	--	--	REMOVED	--	335.2	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
21	0.000	--	--	--	--	--	REMOVED	--	335.0	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
22	0.000	--	--	--	--	--	REMOVED	--	334.8	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
23	0.000	--	--	--	--	--	REMOVED	--	334.6	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
24	0.000	--	--	--	--	--	REMOVED	--	334.4	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
25	0.000	--	--	--	--	--	REMOVED	--	334.2	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
26	0.000	--	--	--	--	--	REMOVED	--	334.0	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
27	0.000	--	--	--	--	--	REMOVED	--	333.8	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
28	0.000	--	--	--	--	--	REMOVED	--	333.6	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
29	0.000	--	--	--	--	--	REMOVED	--	333.4	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
30	0.000	--	--	--	--	--	REMOVED	--	333.2	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
31 D	7.385	2.5672E-03	8.0000E-03	36.93	146.9	82.53	PASSIVE	0.000	333.0	0.000	
1.000	1.000	36.93	0.000	0.000	10.00	10.00	Salt_1270_202756_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
32 D	10.11	2.4491E-03	4.008	50.54	148.9	83.66	PASSIVE	0.000	332.8	0.000	

```
1.000       1.000       50.54       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  33 D   12.83       2.3326E-03  8.008       64.16       150.9       84.79        PASSIVE   0.000       332.6       0.000
1.000       1.000       64.16       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  34 D   14.84       2.2181E-03  10.52       72.71       152.9       85.92        PASSIVE   0.000       332.4       1.488
1.000       1.000       74.20       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  35 D   16.09       2.1059E-03  11.46       75.90       154.9       87.05        PASSIVE   0.000       332.2       4.550
1.000       1.000       80.45       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  36 D   17.34       1.9960E-03  12.40       79.10       156.9       88.18        PASSIVE   0.000       332.0       7.612
1.000       1.000       86.71       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  37 D   18.59       1.8887E-03  13.33       82.29       158.9       89.31        PASSIVE   0.000       331.8       10.67
1.000       1.000       92.96       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  38 D   19.84       1.7842E-03  14.27       85.48       160.9       90.44        PASSIVE   0.000       331.6       13.74
1.000       1.000       99.22       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  39 D   21.10       1.6827E-03  15.21       88.68       162.9       91.56        PASSIVE   0.000       331.4       16.80
1.000       1.000       105.5       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  40 D   22.35       1.5845E-03  16.15       91.87       164.9       92.69        PASSIVE   0.000       331.2       19.86
1.000       1.000       111.7       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  41 D   22.06       1.4895E-03  17.09       87.37       166.9       87.37          V-C  1.5320E+04   331.0       22.92
1.000       1.000       110.3       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  42 D   22.50       1.3981E-03  19.48       87.47       169.4       87.47          V-C  1.5320E+04   330.8       25.03
1.000       1.000       112.5       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  43 D   22.95       1.3103E-03  21.88       87.61       171.9       87.61          V-C  1.5320E+04   330.6       27.13
1.000       1.000       114.7       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  44 D   23.40       1.2262E-03  24.27       87.78       174.4       87.78          V-C  1.5320E+04   330.4       29.24
1.000       1.000       117.0       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  45 D   23.67       1.1458E-03  26.67       86.99       176.9       88.47         UL-RL  4.5960E+04   330.2       31.35
1.000       1.000       118.3       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  46 D   23.74       1.0692E-03  29.06       85.24       179.5       89.73         UL-RL  4.5960E+04   330.0       33.45
1.000       1.000       118.7       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  47 D   23.83       9.9631E-04  31.45       83.61       182.0       90.98         UL-RL  4.5960E+04   329.8       35.56
1.000       1.000       119.2       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  48 D   23.95       9.2716E-04  33.85       82.11       184.5       92.23         UL-RL  4.5960E+04   329.6       37.66
1.000       1.000       119.8       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  49 D   24.10       8.6165E-04  36.24       80.75       187.0       93.48         UL-RL  4.5960E+04   329.4       39.77
1.000       1.000       120.5       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  50 D   24.28       7.9968E-04  38.64       79.52       189.5       94.73         UL-RL  4.5960E+04   329.2       41.88
1.000       1.000       121.4       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  51 D   24.48       7.4114E-04  41.03       78.43       192.0       95.98         UL-RL  4.5960E+04   329.0       43.98
1.000       1.000       122.4       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  52 D   24.71       6.8592E-04  43.42       77.46       194.5       97.23         UL-RL  4.5960E+04   328.8       46.09
1.000       1.000       123.6       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  53 D   24.96       6.3386E-04  45.82       76.62       197.0       98.48         UL-RL  4.5960E+04   328.6       48.20
1.000       1.000       124.8       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  54 D   25.24       5.8482E-04  48.21       75.90       199.5       99.73         UL-RL  4.5960E+04   328.4       50.30
1.000       1.000       126.2       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  55 D   25.54       5.3861E-04  50.61       75.29       202.0       101.0         UL-RL  4.5960E+04   328.2       52.41
1.000       1.000       127.7       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  56 D   25.86       4.9511E-04  53.00       74.80       204.5       102.2         UL-RL  4.5960E+04   328.0       54.52
1.000       1.000       129.3       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  57 D   26.20       4.5412E-04  55.39       74.40       207.0       103.5         UL-RL  4.5960E+04   327.8       56.62
1.000       1.000       131.0       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  58 D   26.57       4.1546E-04  57.79       74.10       209.5       104.7         UL-RL  4.5960E+04   327.6       58.73
1.000       1.000       132.8       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  59 D   26.94       3.7896E-04  60.18       73.88       212.0       106.0         UL-RL  4.5960E+04   327.4       60.83
1.000       1.000       134.7       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  60 D   27.34       3.4442E-04  62.58       73.75       214.5       107.2         UL-RL  4.5960E+04   327.2       62.94
1.000       1.000       136.7       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  61 D   27.75       3.1167E-04  64.97       73.68       217.0       108.5         UL-RL  4.5960E+04   327.0       65.05
1.000       1.000       138.7       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  62 D   28.17       2.8054E-04  67.36       73.68       219.5       109.7         UL-RL  4.5960E+04   326.8       67.15
1.000       1.000       140.8       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
```

63 D	28.60	2.5082E-04	69.76	73.74	222.0	111.0	UL-RL	4.5960E+04	326.6	69.26
1.000	1.000	143.0	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
64 D	29.04	2.2239E-04	72.15	73.85	224.5	112.2	UL-RL	4.5960E+04	326.4	71.37
1.000	1.000	145.2	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
65 D	29.49	1.9506E-04	74.55	74.00	227.0	113.5	UL-RL	4.5960E+04	326.2	73.47
1.000	1.000	147.5	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
66 D	29.95	1.6868E-04	76.94	74.19	229.5	114.7	UL-RL	4.5960E+04	326.0	75.58
1.000	1.000	149.8	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
67 D	30.42	1.4310E-04	79.33	74.40	232.0	116.0	UL-RL	4.5960E+04	325.8	77.68
1.000	1.000	152.1	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
68 D	30.89	1.1818E-04	81.73	74.64	234.5	117.2	UL-RL	4.5960E+04	325.6	79.79
1.000	1.000	154.4	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
69 D	31.36	9.3792E-05	84.12	74.90	237.0	118.5	UL-RL	4.5960E+04	325.4	81.90
1.000	1.000	156.8	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
70 D	31.84	6.9821E-05	86.52	75.18	239.5	119.7	UL-RL	4.5960E+04	325.2	84.00
1.000	1.000	159.2	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
71 D	32.31	4.6150E-05	88.91	75.46	242.0	121.0	UL-RL	4.5960E+04	325.0	86.11
1.000	1.000	161.6	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
72 D	32.79	2.2713E-05	91.30	75.75	244.5	122.2	UL-RL	4.5960E+04	324.8	88.22
1.000	1.000	164.0	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
73 D	33.27	-5.7891E-07	93.70	76.03	247.0	123.5	UL-RL	4.5960E+04	324.6	90.32
1.000	1.000	166.4	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
74 D	33.75	-2.3786E-05	96.09	76.32	249.5	124.7	UL-RL	4.5960E+04	324.4	92.43
1.000	1.000	168.8	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
75 D	34.23	-4.6953E-05	98.49	76.61	252.0	126.0	UL-RL	4.5960E+04	324.2	94.53
1.000	1.000	171.1	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
76 D	17.35	-7.0003E-05	100.9	76.89	254.5	127.2	UL-RL	4.5960E+04	324.0	96.63
1.000	1.000	173.5	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						

New Project

S T R E S S   R E S U L T S   F O R   G R O U P   N O.   3

Pali1500_253215   :
ELEMENT TYPE   2 NO.OF ELEMENTS. IN THIS GROUP   75
C U R R E N T   T I M E   I S   3.0000 SUBINCREMENT 00001/00001

 WALL2D ELEMENT

EL	TA	TB	MA	MB
1	-1.19736E-09	1.19736E-09	-1.19282E-10	8.88471E-10
2	-1.53409E-09	1.53409E-09	-1.16178E-09	8.30162E-10
3	3.13212E-09	-3.13212E-09	-6.72778E-10	2.00906E-09
4	-4.41918E-09	4.41918E-09	-2.13807E-09	6.76506E-10
5	1.81842E-09	-1.81842E-09	-9.36781E-10	2.08595E-09
6	-8.26272E-11	8.26272E-11	-1.91563E-09	2.38201E-09
7	-4.74513E-10	4.74513E-10	-2.44132E-09	2.26580E-09
8	-1.46397E-09	1.46397E-09	-2.46500E-09	1.30305E-09
9	6.57623E-02	-6.57623E-02	-1.23531E-09	1.31525E-02
10	0.31915	-0.31915	-1.31525E-02	7.69823E-02
11	0.79568	-0.79568	-7.69823E-02	0.23612
12	1.6441	-1.6441	-0.23612	0.56494
13	2.8645	-2.8645	-0.56494	1.1381
14	4.4570	-4.4570	-1.1381	2.0295
15	6.4214	-6.4214	-2.0295	3.3138
16	8.7578	-8.7578	-3.3138	5.0654
17	11.466	-11.466	-5.0654	7.3586
18	14.546	-14.546	-7.3586	10.268
19	17.998	-17.998	-10.268	13.868
20	21.823	-21.823	-13.868	18.232
21	27.663	-27.663	-18.232	23.767
22	33.992	-33.992	-23.767	30.566
23	40.809	-40.809	-30.566	38.727
24	48.114	-48.114	-38.727	48.350
25	55.908	-55.908	-48.350	59.532
26	64.190	-64.190	-59.532	72.370
27	72.960	-72.960	-72.370	86.962
28	82.219	-82.219	-86.962	103.41
29	91.966	-91.966	-103.41	121.81
30	102.20	-102.20	-121.81	142.25
31	105.54	-105.54	-142.25	163.36
32	106.64	-106.64	-163.36	184.68
33	105.51	-105.51	-184.68	205.79
34	102.86	-102.86	-205.79	226.36
35	99.447	-99.447	-226.36	246.25
36	95.271	-95.271	-246.25	265.30
37	90.331	-90.331	-265.30	283.38
38	84.629	-84.629	-283.38	300.30
39	78.164	-78.164	-300.30	315.94
40	70.936	-70.936	-315.94	330.12
41	54.950	-54.950	-330.12	341.11
42	38.899	-38.899	-341.11	348.89
43	22.779	-22.779	-348.89	353.45
44	6.8380	-6.8380	-353.45	354.82
45	-7.7478	7.7478	-354.82	353.27
46	-20.829	20.829	-353.27	349.10
47	-32.475	32.475	-349.10	342.60
48	-42.761	42.761	-342.60	334.05
49	-51.758	51.758	-334.05	323.70
50	-59.535	59.535	-323.70	311.79
51	-66.162	66.162	-311.79	298.56
52	-71.704	71.704	-298.56	284.22
53	-76.227	76.227	-284.22	268.98
54	-79.790	79.790	-268.98	253.01
55	-82.451	82.451	-253.01	236.52
56	-84.265	84.265	-236.52	219.67
57	-85.284	85.284	-219.67	202.61
58	-85.554	85.554	-202.61	185.50
59	-85.120	85.120	-185.50	168.47
60	-84.021	84.021	-168.47	151.67
61	-82.294	82.294	-151.67	135.21
62	-79.971	79.971	-135.21	119.21
63	-77.082	77.082	-119.21	103.79
64	-73.651	73.651	-103.79	89.063
65	-69.702	69.702	-89.063	75.123
66	-65.253	65.253	-75.123	62.072
67	-60.320	60.320	-62.072	50.008
68	-54.916	54.916	-50.008	39.025
69	-49.051	49.051	-39.025	29.214
70	-42.733	42.733	-29.214	20.663

```
   71 -35.968      35.968     -20.663      13.470
   72 -28.759      28.759     -13.470      7.7180
   73 -21.108      21.108     -7.7180      3.4964
   74 -13.017      13.017     -3.4964     0.89302
   75 -4.4853      4.4853    -0.89302    -2.55257E-12

ITER     0 RNORM = 293.3     RMNORM= 0.000
           RINORM=0.5817E+06 RIMNOR=0.5006E+07
           RENORM= 347.0     REMNOR=0.8831E-18 RATIO =0.2442E-01 TOLER =0.1000E-03  NOT CONVERGED
           RFMAX = 106.6     RMMAX = 354.8
           RTSMAL=0.1000E-02 RMSMAL=0.1000E-02
           RDT   =0.5817E+06 RDR   =0.5006E+07
           RATIOT=0.2442E-01 RATIOR= 0.000
           MAX UN= 3.383     IEQ=    79 NODE     40 DOF   1  Y-DISPL.F
           MIN UN=-.1468E-08 IEQ=    85 NODE     43 DOF   1  Y-DISPL.F
           NO. OF CONTACT CONSTRAINT VIOLATIONS     0


ITER     2 RNORM = 293.3     RMNORM= 0.000
           RINORM=0.5817E+06 RIMNOR=0.5006E+07
           RENORM= 2250.     REMNOR=0.4481E-16 RATIO =0.6219E-01 TOLER =0.1000E-03  NOT CONVERGED
           RFMAX = 106.6     RMMAX = 354.8
           RTSMAL=0.1000E-02 RMSMAL=0.1000E-02
           RDT   =0.5817E+06 RDR   =0.5006E+07
           RATIOT=0.6219E-01 RATIOR= 0.000
           MAX UN= 25.45     IEQ=    89 NODE     45 DOF   1  Y-DISPL.F
           MIN UN=-5.288     IEQ=   149 NODE     75 DOF   1  Y-DISPL.F
           NO. OF CONTACT CONSTRAINT VIOLATIONS     0


ITER     3 RNORM = 293.3     RMNORM= 0.000
           RINORM=0.5817E+06 RIMNOR=0.5006E+07
           RENORM= 313.8     REMNOR=0.2757E-16 RATIO =0.2323E-01 TOLER =0.1000E-03  NOT CONVERGED
           RFMAX = 106.6     RMMAX = 354.8
           RTSMAL=0.1000E-02 RMSMAL=0.1000E-02
           RDT   =0.5817E+06 RDR   =0.5006E+07
           RATIOT=0.2323E-01 RATIOR= 0.000
           MAX UN= 10.98     IEQ=   103 NODE     52 DOF   1  Y-DISPL.F
           MIN UN=-.1535     IEQ=   129 NODE     65 DOF   1  Y-DISPL.F
           NO. OF CONTACT CONSTRAINT VIOLATIONS     0


ITER     4 RNORM = 293.3     RMNORM= 0.000
           RINORM=0.5817E+06 RIMNOR=0.5006E+07
           RENORM= 1.001     REMNOR=0.9913E-17 RATIO =0.1312E-02 TOLER =0.1000E-03  NOT CONVERGED
           RFMAX = 106.6     RMMAX = 354.8
           RTSMAL=0.1000E-02 RMSMAL=0.1000E-02
           RDT   =0.5817E+06 RDR   =0.5006E+07
           RATIOT=0.1312E-02 RATIOR= 0.000
           MAX UN=0.4266     IEQ=   115 NODE     58 DOF   1  Y-DISPL.F
           MIN UN=-.5562     IEQ=   129 NODE     65 DOF   1  Y-DISPL.F
           NO. OF CONTACT CONSTRAINT VIOLATIONS     0


ITER     5 RNORM = 293.3     RMNORM= 0.000
           RINORM=0.5817E+06 RIMNOR=0.5006E+07
           RENORM=0.2939E-14 REMNOR=0.9548E-17 RATIO =0.7108E-10 TOLER =0.1000E-03      CONVERGED !
           RFMAX = 106.6     RMMAX = 354.8
           RTSMAL=0.1000E-02 RMSMAL=0.1000E-02
           RDT   =0.5817E+06 RDR   =0.5006E+07
           RATIOT=0.7108E-10 RATIOR= 0.000
           MAX UN=0.2069E-07 IEQ=    15 NODE      8 DOF   1  Y-DISPL.F
           MIN UN=-.1135E-07 IEQ=    65 NODE     33 DOF   1  Y-DISPL.F
           NO. OF CONTACT CONSTRAINT VIOLATIONS     0
```

```
+-----------------------------------------------------------------------------------------------------------------------+
|                  PARATIEPLUS(TM)   NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*             |
|                                                                                                                       |
|                                                ParatiePlus                                                            |
|                                Exe Time :28 January 2022   16:22:51                                                   |
+-----------------------------------------------------------------------------------------------------------------------+
New Project
SOLUTION REACHED USING     5 ITERATIONS ON   80

P R I N T   O U T   F O R   T I M E   S T E P    4     ( AT TIME   4.000     ) SUBINCREMENT 00001/00001

PRINT OUT OF ACTIVE COMPONENTS (FIXED NODES ARE NOT PRINTED OUT)

          Y-DISPL.F        X-ROT. F
            02               04
    1   2.3371606E-02  -2.3057837E-03
    2   2.2910449E-02  -2.3057752E-03
    3   2.2449298E-02  -2.3057332E-03
    4   2.1988161E-02  -2.3056239E-03
    5   2.1527055E-02  -2.3054137E-03
    6   2.1065774E-02  -2.3050687E-03
    7   2.0604808E-02  -2.3045557E-03
    8   2.0143965E-02  -2.3038409E-03
    9   1.9680135E-02  -2.3028906E-03
   10   1.9219763E-02  -2.3016708E-03
   11   1.8759664E-02  -2.3001463E-03
   12   1.8299905E-02  -2.2982795E-03
   13   1.7840556E-02  -2.2960298E-03
   14   1.7381469E-02  -2.2933510E-03
   15   1.6923195E-02  -2.2901974E-03
   16   1.6465603E-02  -2.2865150E-03
   17   1.6008806E-02  -2.2822475E-03
   18   1.5552925E-02  -2.2773345E-03
   19   1.5098097E-02  -2.2717115E-03
   20   1.4644470E-02  -2.2653103E-03
   21   1.4193941E-02  -2.2580586E-03
   22   1.3742922E-02  -2.2498671E-03
   23   1.3293868E-02  -2.2406458E-03
   24   1.2846769E-02  -2.2302873E-03
   25   1.2401866E-02  -2.2186831E-03
   26   1.1959417E-02  -2.2057193E-03
   27   1.1519707E-02  -2.1912770E-03
   28   1.1083043E-02  -2.1752320E-03
   29   1.0649759E-02  -2.1574550E-03
   30   1.0220002E-02  -2.1378010E-03
   31   9.7945869E-03  -2.1161503E-03
   32   9.3737113E-03  -2.0924022E-03
   33   8.9577979E-03  -2.0665256E-03
   34   8.5472739E-03  -2.0385078E-03
   35   8.1425674E-03  -2.0083512E-03
   36   7.7441053E-03  -1.9760667E-03
   37   7.3523115E-03  -1.9416709E-03
   38   6.9674158E-03  -1.9051664E-03
   39   6.5902183E-03  -1.8666170E-03
   40   6.2209344E-03  -1.8260375E-03
   41   5.8598978E-03  -1.7834659E-03
   42   5.5076191E-03  -1.7390787E-03
   43   5.1643737E-03  -1.6931838E-03
   44   4.8304330E-03  -1.6460816E-03
   45   4.5060090E-03  -1.5980650E-03
   46   4.1912558E-03  -1.5494197E-03
   47   3.8861213E-03  -1.5003999E-03
   48   3.5909530E-03  -1.4513269E-03
   49   3.3055849E-03  -1.4024420E-03
   50   3.0299533E-03  -1.3540038E-03
   51   2.7639438E-03  -1.3062627E-03
   52   2.5073926E-03  -1.2594608E-03
   53   2.2600882E-03  -1.2138326E-03
   54   2.0217731E-03  -1.1696049E-03
   55   1.7920324E-03  -1.1269766E-03
   56   1.5707502E-03  -1.0862028E-03
   57   1.3574223E-03  -1.0474678E-03
   58   1.1516208E-03  -1.0109710E-03
   59   9.5287947E-04  -9.7689361E-04
   60   7.6069922E-04  -9.4538147E-04
   61   5.7455581E-04  -9.1653912E-04
   62   3.9390835E-04  -8.9042883E-04
   63   2.1812092E-04  -8.6706093E-04
   64   4.6819515E-05  -8.4644028E-04
   65  -1.2062680E-04  -8.2849727E-04
   66  -2.8474471E-04  -8.1313763E-04
   67  -4.4603889E-04  -8.0023734E-04
   68  -6.0498685E-04  -7.8964880E-04
   69  -7.6203424E-04  -7.8120121E-04
   70  -9.1759024E-04  -7.7470083E-04
   71  -1.0721001E-03  -7.6992991E-04
   72  -1.2257324E-03  -7.6665625E-04
   73  -1.3788381E-03  -7.6461908E-04
   74  -1.5316370E-03  -7.6353946E-04
```

```
75  -1.6842908E-03  -7.6311753E-04
76  -1.8362128E-03  -7.6303260E-04
```

```
+-----------------------------------------------------------------------------------------------------------------------------+
|                  PARATIEPLUS(TM)   NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*                    |
|                                                                                                                             |
|                                              ParatiePlus                                                                    |
|                                    Exe Time :28 January 2022   16:22:51                                                     |
+-----------------------------------------------------------------------------------------------------------------------------+
New Project


S T R E S S   R E S U L T S   F O R   G R O U P   N O.   1

0_L                                                    :
ELEMENT TYPE    5 NO.OF ELEMENTS. IN THIS GROUP   76
C U R R E N T   T I M E   I S      4.0000 SUBINCREMENT 00001/00001

 HARDENING 2D SOIL ELEMENT

 ****** TOTAL STRESS FORMULATION *****

  EL *   FORCE     DISPL-Y  VERTICAL-P  HORIZON.-P     MAX-V-P     MAX-H-P          STATE   STIFFNESS Z-LEVEL      PORE       E FAC-
TOR    UFACTOR       Peq          Su_a        Su_p        Cohe_a      Cohe_p     LAYER                                ZFO         QS
QSL          ZD          ZPL          Kz
 ------------------------------------------------------------------------------------------------------------------------------------
------------------------------------------------------------------------------------------------------------------------------------
-----------------------------------------------
   1 D   0.000     -2.3372E-02   0.000       0.000       76.00       38.00          ACTIVE   0.000       339.0       0.000
1.000       1.000       0.000       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   2 D   0.000     -2.2910E-02   3.800       0.000       79.80       39.90          ACTIVE   0.000       338.8       0.000
1.000       1.000       0.000       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   3 D   0.000     -2.2449E-02   7.600       0.000       83.60       41.80          ACTIVE   0.000       338.6       0.000
1.000       1.000       0.000       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   4 D   0.000     -2.1988E-02   11.40       0.000       87.40       43.70          ACTIVE   0.000       338.4       0.000
1.000       1.000       0.000       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   5 D   0.000     -2.1527E-02   15.20       0.000       91.20       45.60          ACTIVE   0.000       338.2       0.000
1.000       1.000       0.000       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   6 D   0.000     -2.1066E-02   19.00       0.000       95.00       47.50          ACTIVE   0.000       338.0       0.000
1.000       1.000       0.000       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   7 D   0.000     -2.0605E-02   22.80       0.000       98.80       49.40          ACTIVE   0.000       337.8       0.000
1.000       1.000       0.000       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   8 D   0.000     -2.0144E-02   26.60       0.000       102.6       51.30          ACTIVE   0.000       337.6       0.000
1.000       1.000       0.000       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   9 D  6.5762E-02 -1.9680E-02   30.07       0.000       105.7       52.96          ACTIVE   0.000       337.4       0.3288
1.000       1.000      0.3288       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  10 D  0.2534     -1.9220E-02   32.93       0.000       107.5       53.85          ACTIVE   0.000       337.2       1.267
1.000       1.000       1.267       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  11 D  0.4765     -1.8760E-02   35.80      0.1776       109.3       54.74          ACTIVE   0.000       337.0       2.205
1.000       1.000       2.383       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  12 D  0.8485     -1.8300E-02   38.66       1.099       111.1       55.64          ACTIVE   0.000       336.8       3.143
1.000       1.000       4.242       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  13 D   1.220     -1.7841E-02   41.52       2.021       112.9       56.53          ACTIVE   0.000       336.6       4.081
1.000       1.000       6.102       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  14 D   1.593     -1.7381E-02   44.38       2.943       114.7       57.42          ACTIVE   0.000       336.4       5.020
1.000       1.000       7.963       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  15 D   1.964     -1.6923E-02   47.25       3.864       116.4       58.31          ACTIVE   0.000       336.2       5.958
1.000       1.000       9.822       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  16 D   2.336     -1.6466E-02   50.11       4.786       118.2       59.21          ACTIVE   0.000       336.0       6.896
1.000       1.000       11.68       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  17 D   2.708     -1.6009E-02   52.97       5.707       120.0       60.10          ACTIVE   0.000       335.8       7.834
1.000       1.000       13.54       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  18 D   3.080     -1.5553E-02   55.83       6.629       121.8       60.99          ACTIVE   0.000       335.6       8.772
1.000       1.000       15.40       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  19 D   3.452     -1.5098E-02   58.69       7.550       123.6       61.88          ACTIVE   0.000       335.4       9.710
1.000       1.000       17.26       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  20 D   3.824     -1.4644E-02   61.56       8.472       125.4       62.78          ACTIVE   0.000       335.2       10.65
1.000       1.000       19.12       0.000       0.000       10.00       10.00     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  21 D   5.840     -1.4194E-02   64.42       17.61       127.2       71.54          ACTIVE   0.000       335.0       11.59
1.000       1.000       29.20       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  22 D   6.329     -1.3743E-02   67.48       19.12       129.2       72.65          ACTIVE   0.000       334.8       12.53
```

```
1.000       1.000       31.64       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  23 D   6.817     -1.3294E-02   70.54       20.62       131.2       73.77         ACTIVE   0.000       334.6       13.46
1.000       1.000       34.09       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  24 D   7.305     -1.2847E-02   73.60       22.13       133.2       74.89         ACTIVE   0.000       334.4       14.40
1.000       1.000       36.53       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  25 D   7.794     -1.2402E-02   76.67       23.63       135.2       76.00         ACTIVE   0.000       334.2       15.34
1.000       1.000       38.97       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  26 D   8.282     -1.1959E-02   79.73       25.13       137.1       77.12         ACTIVE   0.000       334.0       16.28
1.000       1.000       41.41       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  27 D   8.770     -1.1520E-02   82.79       26.64       139.1       78.24         ACTIVE   0.000       333.8       17.22
1.000       1.000       43.85       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  28 D   9.259     -1.1083E-02   85.85       28.14       141.1       79.35         ACTIVE   0.000       333.6       18.15
1.000       1.000       46.29       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  29 D   9.747     -1.0650E-02   88.91       29.64       143.1       80.47         ACTIVE   0.000       333.4       19.09
1.000       1.000       48.73       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  30 D   10.24     -1.0220E-02   91.98       31.15       145.1       81.59         ACTIVE   0.000       333.2       20.03
1.000       1.000       51.18       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  31 D   10.72     -9.7946E-03   95.04       32.65       147.1       82.70         ACTIVE   0.000       333.0       20.97
1.000       1.000       53.62       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  32 D   11.21     -9.3737E-03   98.10       34.15       149.1       83.82         ACTIVE   0.000       332.8       21.91
1.000       1.000       56.06       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  33 D   11.70     -8.9578E-03   101.2       35.66       151.1       84.93         ACTIVE   0.000       332.6       22.85
1.000       1.000       58.50       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  34 D   12.19     -8.5473E-03   104.2       37.16       153.1       86.05         ACTIVE   0.000       332.4       23.78
1.000       1.000       60.94       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  35 D   12.68     -8.1426E-03   107.3       38.66       155.1       87.17         ACTIVE   0.000       332.2       24.72
1.000       1.000       63.38       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  36 D   13.17     -7.7441E-03   110.3       40.17       157.1       88.28         ACTIVE   0.000       332.0       25.66
1.000       1.000       65.83       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  37 D   13.65     -7.3523E-03   113.4       41.67       159.0       89.40         ACTIVE   0.000       331.8       26.60
1.000       1.000       68.27       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  38 D   14.14     -6.9674E-03   116.5       43.17       161.0       90.52         ACTIVE   0.000       331.6       27.54
1.000       1.000       70.71       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  39 D   14.63     -6.5902E-03   119.5       44.68       163.0       91.63         ACTIVE   0.000       331.4       28.47
1.000       1.000       73.15       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  40 D   15.12     -6.2209E-03   122.6       46.18       165.0       92.75         ACTIVE   0.000       331.2       29.41
1.000       1.000       75.59       0.000       0.000       10.00       10.00     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  41 D   6.071     -5.8599E-03   125.7       0.000       167.0       83.51         ACTIVE   0.000       331.0       30.35
1.000       1.000       30.35       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  42 D   6.449     -5.5076E-03   128.3       0.000       169.5       84.76         ACTIVE   0.000       330.8       32.25
1.000       1.000       32.25       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  43 D   6.828     -5.1644E-03   130.9       0.000       172.0       86.01         ACTIVE   0.000       330.6       34.14
1.000       1.000       34.14       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  44 D   7.207     -4.8304E-03   133.5       0.000       174.5       87.26         ACTIVE   0.000       330.4       36.03
1.000       1.000       36.03       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  45 D   7.586     -4.5060E-03   136.1       0.000       177.0       88.51         ACTIVE   0.000       330.2       37.93
1.000       1.000       37.93       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  46 D   7.964     -4.1913E-03   138.7       0.000       179.5       89.76         ACTIVE   0.000       330.0       39.82
1.000       1.000       39.82       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  47 D   8.343     -3.8861E-03   141.3       0.000       182.0       91.01         ACTIVE   0.000       329.8       41.72
1.000       1.000       41.72       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  48 D   8.722     -3.5910E-03   143.9       0.000       184.5       92.26         ACTIVE   0.000       329.6       43.61
1.000       1.000       43.61       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  49 D   9.324     -3.3056E-03   146.5       1.117       187.0       93.51         ACTIVE   0.000       329.4       45.50
1.000       1.000       46.62       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  50 D   9.954     -3.0300E-03   149.1       2.370       189.5       94.76         ACTIVE   0.000       329.2       47.40
1.000       1.000       49.77       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  51 D   10.58     -2.7639E-03   151.7       3.624       192.0       96.01         ACTIVE   0.000       329.0       49.29
1.000       1.000       52.92       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  52 D   11.21     -2.5074E-03   154.3       4.877       194.5       97.26         ACTIVE   0.000       328.8       51.19
1.000       1.000       56.06       0.000       0.000       50.00       50.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
```

53 D	11.84	-2.2601E-03	156.9	6.131	197.0	98.51	ACTIVE	0.000	328.6	53.08
1.000	1.000	59.21	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
54 D	12.47	-2.0218E-03	159.5	7.385	199.5	99.76	ACTIVE	0.000	328.4	54.97
1.000	1.000	62.36	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
55 D	13.10	-1.7920E-03	162.1	8.639	202.0	101.0	ACTIVE	0.000	328.2	56.87
1.000	1.000	65.51	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
56 D	13.73	-1.5708E-03	164.8	9.892	204.5	102.3	ACTIVE	0.000	328.0	58.76
1.000	1.000	68.65	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
57 D	14.36	-1.3574E-03	167.4	11.15	207.0	103.5	ACTIVE	0.000	327.8	60.66
1.000	1.000	71.80	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
58 D	17.29	-1.1516E-03	170.0	23.88	209.5	104.8	UL-RL	6.1194E+04	327.6	62.55
1.000	1.000	86.43	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
59 D	20.35	-9.5288E-04	172.6	37.32	212.0	106.0	UL-RL	6.1194E+04	327.4	64.44
1.000	1.000	101.8	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
60 D	23.34	-7.6070E-04	175.2	50.37	214.5	107.3	UL-RL	6.1194E+04	327.2	66.34
1.000	1.000	116.7	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
61 D	26.26	-5.7456E-04	177.8	63.05	217.0	108.5	UL-RL	6.1194E+04	327.0	68.23
1.000	1.000	131.3	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
62 D	29.10	-3.9391E-04	180.4	75.39	219.5	109.8	UL-RL	6.1194E+04	326.8	70.12
1.000	1.000	145.5	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
63 D	31.89	-2.1812E-04	183.0	87.43	222.0	111.0	UL-RL	6.1194E+04	326.6	72.02
1.000	1.000	159.4	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
64 D	34.62	-4.6820E-05	185.6	99.20	224.5	112.2	UL-RL	6.1194E+04	326.4	73.91
1.000	1.000	173.1	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
65 D	37.15	1.2063E-04	188.2	110.0	227.0	113.9	UL-RL	6.1194E+04	326.2	75.81
1.000	1.000	185.8	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
66 D	38.58	2.8474E-04	190.8	115.2	229.5	118.2	UL-RL	6.1194E+04	326.0	77.70
1.000	1.000	192.9	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
67 D	40.00	4.4604E-04	193.4	120.4	232.0	122.4	UL-RL	6.1194E+04	325.8	79.59
1.000	1.000	200.0	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
68 D	41.41	6.0499E-04	196.0	125.6	234.5	126.6	UL-RL	6.1194E+04	325.6	81.49
1.000	1.000	207.1	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
69 D	42.81	7.6203E-04	198.6	130.7	237.0	130.7	UL-RL	6.1194E+04	325.4	83.38
1.000	1.000	214.1	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
70 D	44.08	9.1759E-04	201.2	135.1	239.5	135.1	V-C	2.0398E+04	325.2	85.28
1.000	1.000	220.4	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
71 D	45.34	1.0721E-03	203.8	139.5	242.0	139.5	V-C	2.0398E+04	325.0	87.17
1.000	1.000	226.7	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
72 D	46.60	1.2257E-03	206.5	143.9	244.5	143.9	V-C	2.0398E+04	324.8	89.06
1.000	1.000	233.0	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
73 D	47.86	1.3788E-03	209.1	148.3	247.0	148.3	V-C	2.0398E+04	324.6	90.96
1.000	1.000	239.3	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
74 D	49.11	1.5316E-03	211.7	152.7	249.5	152.7	V-C	2.0398E+04	324.4	92.85
1.000	1.000	245.6	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
75 D	50.36	1.6843E-03	214.3	157.1	252.0	157.1	V-C	2.0398E+04	324.2	94.75
1.000	1.000	251.8	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
76 D	25.81	1.8362E-03	216.9	161.4	254.5	161.4	V-C	2.0398E+04	324.0	96.63
1.000	1.000	258.1	0.000	0.000	50.00	50.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						

New Project

S T R E S S R E S U L T S F O R G R O U P N O. 2

0_R :
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 76
C U R R E N T T I M E I S 4.0000 SUBINCREMENT 00001/00001

HARDENING 2D SOIL ELEMENT

****** TOTAL STRESS FORMULATION *****

EL * TOR	FORCE UFACTOR	DISPL-Y Peq	VERTICAL-P Su_a	HORIZON.-P Su_p	MAX-V-P Cohe_a	MAX-H-P Cohe_p	STATE LAYER	STIFFNESS	Z-LEVEL ZFO	PORE	E FAC-QS
QSL	ZD	ZPL	Kz								
1	0.000	--	--	--	--	--	REMOVED	--	339.0	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
2	0.000	--	--	--	--	--	REMOVED	--	338.8	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
3	0.000	--	--	--	--	--	REMOVED	--	338.6	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
4	0.000	--	--	--	--	--	REMOVED	--	338.4	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
5	0.000	--	--	--	--	--	REMOVED	--	338.2	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
6	0.000	--	--	--	--	--	REMOVED	--	338.0	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
7	0.000	--	--	--	--	--	REMOVED	--	337.8	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
8	0.000	--	--	--	--	--	REMOVED	--	337.6	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
9	0.000	--	--	--	--	--	REMOVED	--	337.4	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
10	0.000	--	--	--	--	--	REMOVED	--	337.2	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
11	0.000	--	--	--	--	--	REMOVED	--	337.0	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
12	0.000	--	--	--	--	--	REMOVED	--	336.8	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
13	0.000	--	--	--	--	--	REMOVED	--	336.6	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
14	0.000	--	--	--	--	--	REMOVED	--	336.4	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
15	0.000	--	--	--	--	--	REMOVED	--	336.2	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
16	0.000	--	--	--	--	--	REMOVED	--	336.0	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
17	0.000	--	--	--	--	--	REMOVED	--	335.8	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
18	0.000	--	--	--	--	--	REMOVED	--	335.6	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
19	0.000	--	--	--	--	--	REMOVED	--	335.4	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
20	0.000	--	--	--	--	--	REMOVED	--	335.2	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
21	0.000	--	--	--	--	--	REMOVED	--	335.0	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
22	0.000	--	--	--	--	--	REMOVED	--	334.8	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
23	0.000	--	--	--	--	--	REMOVED	--	334.6	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
24	0.000	--	--	--	--	--	REMOVED	--	334.4	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
25	0.000	--	--	--	--	--	REMOVED	--	334.2	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
26	0.000	--	--	--	--	--	REMOVED	--	334.0	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
27	0.000	--	--	--	--	--	REMOVED	--	333.8	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
28	0.000	--	--	--	--	--	REMOVED	--	333.6	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
29	0.000	--	--	--	--	--	REMOVED	--	333.4	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
30	0.000	--	--	--	--	--	REMOVED	--	333.2	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
31 D	6.925	9.7946E-03	8.0000E-03	34.62	146.9	82.53	PASSIVE	0.000	333.0	0.000	
1.000	1.000	34.62	0.000	0.000	10.38	10.38	Salt_1270_202756_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
32 D	9.145	9.3737E-03	4.008	45.72	148.9	83.66	PASSIVE	0.000	332.8	0.000	

```
1.000       1.000       45.72       0.000       0.000       10.38       10.38     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  33 D   11.37       8.9578E-03  8.008       56.83       150.9       84.79        PASSIVE   0.000       332.6       0.000
1.000       1.000       56.83       0.000       0.000       10.38       10.38     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  34 D   12.98       8.5473E-03  10.52       63.41       152.9       85.92        PASSIVE   0.000       332.4       1.488
1.000       1.000       64.90       0.000       0.000       10.38       10.38     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  35 D   13.96       8.1426E-03  11.46       65.27       154.9       87.05        PASSIVE   0.000       332.2       4.550
1.000       1.000       69.82       0.000       0.000       10.38       10.38     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  36 D   14.95       7.7441E-03  12.40       67.15       156.9       88.18        PASSIVE   0.000       332.0       7.612
1.000       1.000       74.77       0.000       0.000       10.38       10.38     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  37 D   15.95       7.3523E-03  13.33       69.07       158.9       89.31        PASSIVE   0.000       331.8       10.67
1.000       1.000       79.74       0.000       0.000       10.38       10.38     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  38 D   16.95       6.9674E-03  14.27       71.01       160.9       90.44        PASSIVE   0.000       331.6       13.74
1.000       1.000       84.75       0.000       0.000       10.38       10.38     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  39 D   17.96       6.5902E-03  15.21       72.98       162.9       91.56        PASSIVE   0.000       331.4       16.80
1.000       1.000       89.78       0.000       0.000       10.38       10.38     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  40 D   18.96       6.2209E-03  16.15       74.96       164.9       92.69        PASSIVE   0.000       331.2       19.86
1.000       1.000       94.82       0.000       0.000       10.38       10.38     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  41 D   35.45       5.8599E-03  17.09       154.3       166.9       154.3            V-C  1.5320E+04   331.0       22.92
1.000       1.000       177.2       0.000       0.000       51.92       51.92     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  42 D   35.09       5.5076E-03  19.48       150.4       169.4       150.4            V-C  1.5320E+04   330.8       25.03
1.000       1.000       175.5       0.000       0.000       51.92       51.92     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  43 D   34.76       5.1644E-03  21.88       146.7       171.9       146.7            V-C  1.5320E+04   330.6       27.13
1.000       1.000       173.8       0.000       0.000       51.92       51.92     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  44 D   34.45       4.8304E-03  24.27       143.0       174.4       143.0            V-C  1.5320E+04   330.4       29.24
1.000       1.000       172.2       0.000       0.000       51.92       51.92     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  45 D   34.16       4.5060E-03  26.67       139.5       176.9       139.5            V-C  1.5320E+04   330.2       31.35
1.000       1.000       170.8       0.000       0.000       51.92       51.92     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  46 D   33.90       4.1913E-03  29.06       136.1       179.5       136.1            V-C  1.5320E+04   330.0       33.45
1.000       1.000       169.5       0.000       0.000       51.92       51.92     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  47 D   33.67       3.8861E-03  31.45       132.8       182.0       132.8            V-C  1.5320E+04   329.8       35.56
1.000       1.000       168.3       0.000       0.000       51.92       51.92     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  48 D   33.47       3.5910E-03  33.85       129.7       184.5       129.7            V-C  1.5320E+04   329.6       37.66
1.000       1.000       167.3       0.000       0.000       51.92       51.92     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  49 D   33.29       3.3056E-03  36.24       126.7       187.0       126.7            V-C  1.5320E+04   329.4       39.77
1.000       1.000       166.4       0.000       0.000       51.92       51.92     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  50 D   33.14       3.0300E-03  38.64       123.8       189.5       123.8            V-C  1.5320E+04   329.2       41.88
1.000       1.000       165.7       0.000       0.000       51.92       51.92     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  51 D   33.02       2.7639E-03  41.03       121.1       192.0       121.1            V-C  1.5320E+04   329.0       43.98
1.000       1.000       165.1       0.000       0.000       51.92       51.92     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  52 D   32.93       2.5074E-03  43.42       118.5       194.5       118.5            V-C  1.5320E+04   328.8       46.09
1.000       1.000       164.6       0.000       0.000       51.92       51.92     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  53 D   32.86       2.2601E-03  45.82       116.1       197.0       116.1            V-C  1.5320E+04   328.6       48.20
1.000       1.000       164.3       0.000       0.000       51.92       51.92     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  54 D   32.82       2.0218E-03  48.21       113.8       199.5       113.8            V-C  1.5320E+04   328.4       50.30
1.000       1.000       164.1       0.000       0.000       51.92       51.92     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  55 D   32.81       1.7920E-03  50.61       111.6       202.0       111.6            V-C  1.5320E+04   328.2       52.41
1.000       1.000       164.0       0.000       0.000       51.92       51.92     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  56 D   32.82       1.5708E-03  53.00       109.6       204.5       109.6            V-C  1.5320E+04   328.0       54.52
1.000       1.000       164.1       0.000       0.000       51.92       51.92     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  57 D   32.85       1.3574E-03  55.39       107.6       207.0       107.6            V-C  1.5320E+04   327.8       56.62
1.000       1.000       164.2       0.000       0.000       51.92       51.92     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  58 D   32.91       1.1516E-03  57.79       105.8       209.5       105.8            V-C  1.5320E+04   327.6       58.73
1.000       1.000       164.5       0.000       0.000       51.92       51.92     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  59 D   32.22       9.5288E-04  60.18       100.3       212.0       106.0          UL-RL  4.5960E+04   327.4       60.83
1.000       1.000       161.1       0.000       0.000       51.92       51.92     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  60 D   31.16       7.6070E-04  62.58       92.88       214.5       107.2          UL-RL  4.5960E+04   327.2       62.94
1.000       1.000       155.8       0.000       0.000       51.92       51.92     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  61 D   30.16       5.7456E-04  64.97       85.76       217.0       108.5          UL-RL  4.5960E+04   327.0       65.05
1.000       1.000       150.8       0.000       0.000       51.92       51.92     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  62 D   29.21       3.9391E-04  67.36       78.89       219.5       109.7          UL-RL  4.5960E+04   326.8       67.15
1.000       1.000       146.0       0.000       0.000       51.92       51.92     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
```

63 D	28.30	2.1812E-04	69.76	72.24	222.0	111.0	UL-RL	4.5960E+04	326.6	69.26
1.000	1.000	141.5	0.000	0.000	51.92	51.92	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
64 D	27.43	4.6820E-05	72.15	65.78	224.5	112.2	UL-RL	4.5960E+04	326.4	71.37
1.000	1.000	137.1	0.000	0.000	51.92	51.92	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
65 D	26.59	-1.2063E-04	74.55	59.49	227.0	113.5	UL-RL	4.5960E+04	326.2	73.47
1.000	1.000	133.0	0.000	0.000	51.92	51.92	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
66 D	25.78	-2.8474E-04	76.94	53.35	229.5	114.7	UL-RL	4.5960E+04	326.0	75.58
1.000	1.000	128.9	0.000	0.000	51.92	51.92	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
67 D	25.00	-4.4604E-04	79.33	47.33	232.0	116.0	UL-RL	4.5960E+04	325.8	77.68
1.000	1.000	125.0	0.000	0.000	51.92	51.92	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
68 D	24.24	-6.0499E-04	81.73	41.41	234.5	117.2	UL-RL	4.5960E+04	325.6	79.79
1.000	1.000	121.2	0.000	0.000	51.92	51.92	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
69 D	23.49	-7.6203E-04	84.12	35.57	237.0	118.5	UL-RL	4.5960E+04	325.4	81.90
1.000	1.000	117.5	0.000	0.000	51.92	51.92	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
70 D	22.76	-9.1759E-04	86.52	29.79	239.5	119.7	UL-RL	4.5960E+04	325.2	84.00
1.000	1.000	113.8	0.000	0.000	51.92	51.92	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
71 D	22.03	-1.0721E-03	88.91	24.06	242.0	121.0	UL-RL	4.5960E+04	325.0	86.11
1.000	1.000	110.2	0.000	0.000	51.92	51.92	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
72 D	21.32	-1.2257E-03	91.30	18.37	244.5	122.2	UL-RL	4.5960E+04	324.8	88.22
1.000	1.000	106.6	0.000	0.000	51.92	51.92	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
73 D	20.60	-1.3788E-03	93.70	12.69	247.0	123.5	UL-RL	4.5960E+04	324.6	90.32
1.000	1.000	103.0	0.000	0.000	51.92	51.92	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
74 D	19.89	-1.5316E-03	96.09	7.022	249.5	124.7	UL-RL	4.5960E+04	324.4	92.43
1.000	1.000	99.45	0.000	0.000	51.92	51.92	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
75 D	19.18	-1.6843E-03	98.49	1.356	252.0	126.0	UL-RL	4.5960E+04	324.2	94.53
1.000	1.000	95.89	0.000	0.000	51.92	51.92	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
76 D	9.663	-1.8362E-03	100.9	0.000	254.5	127.2	ACTIVE	0.000	324.0	96.63
1.000	1.000	96.63	0.000	0.000	51.92	51.92	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						

New Project

S T R E S S R E S U L T S F O R G R O U P N O. 3

Pali1500_253215 :
ELEMENT TYPE 2 NO.OF ELEMENTS. IN THIS GROUP 75
C U R R E N T T I M E I S 4.0000 SUBINCREMENT 00001/00001

WALL2D ELEMENT

EL	TA	TB	MA	MB
1	1.5838	-1.5838	1.50639E-10	0.31676
2	4.7514	-4.7514	-0.31676	1.2670
3	7.9190	-7.9190	-1.2670	2.8508
4	11.087	-11.087	-2.8508	5.0681
5	14.255	-14.255	-5.0681	7.9205
6	17.423	-17.423	-7.9205	11.405
7	20.591	-20.591	-11.405	15.523
8	23.758	-23.758	-15.523	20.275
9	26.992	-26.992	-20.275	25.673
10	30.413	-30.413	-25.673	31.756
11	34.057	-34.057	-31.756	38.567
12	38.073	-38.073	-38.567	46.182
13	42.462	-42.462	-46.182	54.678
14	47.222	-47.222	-54.678	64.123
15	52.355	-52.355	-64.123	74.594
16	57.858	-57.858	-74.594	86.166
17	63.734	-63.734	-86.166	98.912
18	69.982	-69.982	-98.912	112.91
19	76.602	-76.602	-112.91	128.23
20	83.594	-83.594	-128.23	144.95
21	92.602	-92.602	-144.95	163.48
22	102.10	-102.10	-163.48	183.90
23	112.08	-112.08	-183.90	206.31
24	122.56	-122.56	-206.31	230.83
25	133.52	-133.52	-230.83	257.53
26	144.97	-144.97	-257.53	286.52
27	156.91	-156.91	-286.52	317.90
28	169.33	-169.33	-317.90	351.77
29	182.25	-182.25	-351.77	388.24
30	195.62	-195.62	-388.24	427.36
31	199.42	-199.42	-427.36	467.25
32	201.49	-201.49	-467.25	507.54
33	201.82	-201.82	-507.54	547.91
34	201.03	-201.03	-547.91	588.11
35	199.74	-199.74	-588.11	628.06
36	197.96	-197.96	-628.06	667.66
37	195.66	-195.66	-667.66	706.81
38	192.85	-192.85	-706.81	745.38
39	189.53	-189.53	-745.38	783.28
40	185.68	-185.68	-783.28	820.42
41	156.31	-156.31	-820.42	851.68
42	127.66	-127.66	-851.68	877.21
43	99.735	-99.735	-877.21	897.16
44	72.496	-72.496	-897.16	911.66
45	45.920	-45.920	-911.66	920.84
46	19.983	-19.983	-920.84	924.84
47	-5.3438	5.3438	-924.84	923.77
48	-30.087	30.087	-923.77	917.76
49	-54.052	54.052	-917.76	906.95
50	-77.239	77.239	-906.95	891.50
51	-99.676	99.676	-891.50	871.56
52	-121.39	121.39	-871.56	847.29
53	-142.41	142.41	-847.29	818.80
54	-162.76	162.76	-818.80	786.24
55	-182.46	182.46	-786.24	749.74
56	-201.55	201.55	-749.74	709.43
57	-220.04	220.04	-709.43	665.43
58	-235.66	235.66	-665.43	618.30
59	-247.52	247.52	-618.30	568.79
60	-255.34	255.34	-568.79	517.72
61	-259.25	259.25	-517.72	465.87
62	-259.36	259.36	-465.87	413.97
63	-255.77	255.77	-413.97	362.82
64	-248.57	248.57	-362.82	313.11
65	-238.01	238.01	-313.11	265.50
66	-225.21	225.21	-265.50	220.46
67	-210.21	210.21	-220.46	178.42
68	-193.04	193.04	-178.42	139.81
69	-173.72	173.72	-139.81	105.06
70	-152.40	152.40	-105.06	74.570

71	-129.09	129.09	-74.570	48.751
72	-103.81	103.81	-48.751	27.990
73	-76.551	76.551	-27.990	12.680
74	-47.330	47.330	-12.680	3.2141
75	-16.143	16.143	-3.2141	1.52394E-11

```
+-------------------------------------------------------------------------------------------------------------------------+
|                  PARATIEPLUS(TM)   NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*              |
|                                                                                                                         |
|                                                ParatiePlus                                                              |
|                                Exe Time :28 January 2022   16:22:51                                                     |
+-------------------------------------------------------------------------------------------------------------------------+


     F I N A L    I N C R E M E N T A L    A N A L Y S I S

                    S U M M A R Y

     STEP                                  NO. OF ITERATIONS

        1           CONVERGENCE :YES                      2
        2           CONVERGENCE :YES                      2
        3           CONVERGENCE :YES                      6
        4           CONVERGENCE :YES                      5


 END OF PROCESS FOR PROBLEM
New Project
NONLINEAR SOLUTION CPU TIME ....    0.06 [sec]
DATABASE  CREATION CPU TIME.....    0.18 [sec]
```

8.13. Design Assumption : GLOBALE STATICA - File di Paratie - File di input (.d)

```
* PARATIE ANALYSIS FOR DESIGN SECTION:Base Design Section USING ASSUMPTION: GLOBALE STATICA
 * Time:venerdì 28 gennaio 2022 16:22:51
 * 1: Defining general settings
 UNIT  m kN
 TITLE New Project
 DELTA 0.2
 option param itemax 80
 option control contact lagrange

 option control hinges 0 0.0001 0.001

 * 2: Defining wall(s)
 WALL LeftWall_36 10 324 339 1

 * 3: Defining surfaces for wall(s)
 SOIL 0_L LeftWall_36 324 339 1 0
 SOIL 0_R LeftWall_36 324 339 2 180

 * 4: Defining soil layers
 *
 * Soil Profile (Aate_364268_2050_L_0)
 *
 LDATA Aate_364268_2050_L_0 343 LeftWall_36
 ATREST 0.5 0.5 1
 WEIGHT 19 9 10
 PERMEABILITY 1E-05
 RESISTANCE 10 31 0 0 0
 TZDATA  LINEAR 10000 0 25 0.5 0
 KSCALE  0 0
 YOUNG 40000 1.2E+05
 ENDL
 *
 * Soil Profile (Salt_1270_202756_L_0)
 *
 LDATA Salt_1270_202756_L_0 335 LeftWall_36
 ATREST 0.562 0.5 1
 WEIGHT 20 10 10
 PERMEABILITY 1E-05
 RESISTANCE 10 26 0 0 0
 TZDATA  LINEAR 10000 0 25 0.5 0
 KSCALE  0 0
 YOUNG 2E+05 6E+05
 ENDL
 *
 * Soil Profile (Pa_244788_244789_L_0)
 *
 LDATA Pa_244788_244789_L_0 331 LeftWall_36
 ATREST 0.5 0.5 1
 WEIGHT 22.5 12.5 10
 PERMEABILITY 0.0001
 RESISTANCE 50 27 0 0 0
 TZDATA  LINEAR 20000 0 30 0.5 0
 KSCALE  0 0
 YOUNG 1E+05 3E+05
 ENDL

 * 5: Defining structural materials
 * Steel material: 114 Name=Fe360 E=206000200 kPa
 MATERIAL Fe360_114 2.06E+08
 * Concrete material: 112 Name=C32/40 E=33345800 kPa
 MATERIAL C3240_112 3.3346E+07

 * 6: Defining structural elements
 * 6.1: Beams and combined Wall Elements
 ** rev 2021 and later
 BEAM Pali1500_253215 LeftWall_36 324 339 C3240_112 1.1067 0.80325 0.11296 20.081 00 00 0


 * 6.2: Supports




 * 6.3: Strips

 * 7: Defining Steps
 STEP AnteOperam_1747
 CHANGE Aate_364268_2050_L_0 U-FRICT=25.673 LeftWall_36
 CHANGE Aate_364268_2050_L_0 D-FRICT=25.673 LeftWall_36
 CHANGE Aate_364268_2050_L_0 U-KA=0.373 LeftWall_36
 CHANGE Aate_364268_2050_L_0 U-KP=2.833 LeftWall_36
 CHANGE Aate_364268_2050_L_0 D-KA=0.423 LeftWall_36
 CHANGE Aate_364268_2050_L_0 D-KP=3.343 LeftWall_36
 CHANGE Salt_1270_202756_L_0 U-FRICT=21.315 LeftWall_36
 CHANGE Salt_1270_202756_L_0 D-FRICT=21.315 LeftWall_36
```

```
CHANGE Salt_1270_202756_L_0 U-KA=0.439 LeftWall_36
CHANGE Salt_1270_202756_L_0 U-KP=2.255 LeftWall_36
CHANGE Salt_1270_202756_L_0 D-KA=0.503 LeftWall_36
CHANGE Salt_1270_202756_L_0 D-KP=2.649 LeftWall_36
CHANGE Pa_244788_244789_L_0 U-FRICT=22.177 LeftWall_36
CHANGE Pa_244788_244789_L_0 D-FRICT=22.177 LeftWall_36
CHANGE Pa_244788_244789_L_0 U-KA=0.426 LeftWall_36
CHANGE Pa_244788_244789_L_0 U-KP=2.334 LeftWall_36
CHANGE Pa_244788_244789_L_0 D-KA=0.486 LeftWall_36
CHANGE Pa_244788_244789_L_0 D-KP=2.77 LeftWall_36
CHANGE Aate_364268_2050_L_0 U-COHE=8 LeftWall_36
CHANGE Aate_364268_2050_L_0 U-ADHES=0 LeftWall_36
CHANGE Aate_364268_2050_L_0 D-COHE=8 LeftWall_36
CHANGE Aate_364268_2050_L_0 D-ADHES=0 LeftWall_36
CHANGE Salt_1270_202756_L_0 U-COHE=8 LeftWall_36
CHANGE Salt_1270_202756_L_0 U-ADHES=0 LeftWall_36
CHANGE Salt_1270_202756_L_0 D-COHE=8 LeftWall_36
CHANGE Salt_1270_202756_L_0 D-ADHES=0 LeftWall_36
CHANGE Pa_244788_244789_L_0 U-COHE=40 LeftWall_36
CHANGE Pa_244788_244789_L_0 U-ADHES=0 LeftWall_36
CHANGE Pa_244788_244789_L_0 D-COHE=40 LeftWall_36
CHANGE Pa_244788_244789_L_0 D-ADHES=0 LeftWall_36
SETWALL LeftWall_36
GEOM 343 343
SURCHARGE 0 0 0 0
WATER 337.47 -0.066047 324 0 0
ENDSTEP

STEP Pre-scavo+Pali_244791
CHANGE Aate_364268_2050_L_0 U-KA=0.399 LeftWall_36
CHANGE Aate_364268_2050_L_0 U-KP=3.343 LeftWall_36
CHANGE Aate_364268_2050_L_0 D-KA=0.395 LeftWall_36
CHANGE Salt_1270_202756_L_0 U-KA=0.613 LeftWall_36
CHANGE Salt_1270_202756_L_0 U-KP=2.649 LeftWall_36
CHANGE Salt_1270_202756_L_0 D-KA=0.467 LeftWall_36
CHANGE Pa_244788_244789_L_0 U-KA=0.611 LeftWall_36
CHANGE Pa_244788_244789_L_0 U-KP=2.77 LeftWall_36
CHANGE Pa_244788_244789_L_0 D-KA=0.452 LeftWall_36
SETWALL LeftWall_36
GEOM 339 339
SURCHARGE 0 0 0 0
WATER 337.47 -0.039326 324 0 0
ADD Pali1500_253215
ENDSTEP

STEP Scavofinale_252903
SETWALL LeftWall_36
GEOM 339 333
SURCHARGE 0 0 0 0
WATER 337.47 4.9732 324 0 0
ENDSTEP

STEP Sisma_284297
SETWALL LeftWall_36
GEOM 339 333
SURCHARGE 0 0 0 0
WATER 337.47 4.9732 324 0 0
ENDSTEP
```

8.14. Design Assumption : GLOBALE STATICA - File di Paratie - File di output (.out)

```
+-------------------------------------------------------------------------------------------------------------------------+
|                   PARATIEPLUS(TM)   NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*              |
|                                                                                                                         |
|                                                ParatiePlus                                                              |
|                                  Exe Time :28 January 2022   16:22:51                                                   |
+-------------------------------------------------------------------------------------------------------------------------+

                  ********************************************************
                  *                                                      *
                  *  PARATIE PLUS Non-Linear Spring Engine               *
                  *                                                      *
                  *          AN ELASTOPLASTIC FINITE ELEMENT PROGRAM     *
                  *          FOR FLEXIBLE EARTH-RETAINING STRUCTURES     *
                  *                                                      *
                  *          Written by CEAS s.r.l. (ITALY)              *
                  *          with the scientific supervision of          *
                  *          Roberto Nova - full professor SOIL MECHANICS*
                  *          at Politecnico di Milano (ITALY)            *
                  *                                                      *
                  ********************************************************
                  *                                                      *
                  *  RELEASE   2022.0.0   *Build date:Sep 13, 2021*      *
                  *                                                      *
                  *                                                      *
                  *  CEAS S.R.L  VIALE   GIUSTINIANO 10                  *
                  *              20129   M I L A N O  (ITALIA)           *
```

```
                *  TEL.        +39 02 2020221                          *
                *                                                      *
                *  email       bruno.becci@ceas.it                     *
                *  Web Page    www.ceas.it     www.paratieplus.com     *
                ********************************************************


 JOB : ParatiePlus
 STARTING
ACCEPTED   &lt;FILE,GENW                                                          &gt;
ACCEPTED   &lt;FILE,PLOTTER,BINARY                                                &gt;
ACCEPTED   &lt;SOLVE TOTAL_STRESS                                                 &gt;
ACCEPTED   &lt;PARAM ITEMAX 80                                                    &gt;
ACCEPTED   &lt;CONTROL CONTACT LAGRANGE                                           &gt;
ACCEPTED   &lt;CONTROL HINGES 0 0.0001 0.001                                      &gt;


                ********************************************************
                *                                                      *
                *  WARNING : PORE PRESSURES ARE AUTOMATICALLY COMPUTED  *
                *    BY THE PROGRAM.                                   *
                ********************************************************

PRELIMINARY OPERATIONS CPU TIME     0.00 [sec]
```

```
+-----------------------------------------------------------------------------------------------------------------------+
|                   PARATIEPLUS(TM)   NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*             |
|                                                                                                                       |
|                                                ParatiePlus                                                            |
|                                 Exe Time :28 January 2022   16:22:51                                                  |
+-----------------------------------------------------------------------------------------------------------------------+


INPUT FILE HAS BEEN GENERATED BY WALGEN PROGRAM


New Project


NO. OF NODAL POINTS (NUMNP) ...................   76
NO. OF COORDINATES  (NCOORD)...................    2
NO. OF NODE DOFS    (NDOF).....................    2
NO. OF EQUATIONS    (NEQ)...................... 152
NO. OF CONSTRAINTS CARDS (NVINC)...............    0
NO. OF ELEMENT GROUPS (NEG)....................    3
NO. OF SOLUTION STEPS (NSTE)...................    4
NO. OF ELEMENT SETS ATTACHED TO SLAVE NODES ...    0
NO. OF RECORD FROM WALGEN ..................... 103
NO. OF LONG NAMES (LASTNAME) ..................   17
LENGTH UNIT CHOICE ............................    3 (M   )
FORCE  UNIT CHOICE ............................    3 (KN  )
MAX PORE PRESSURE TABLE LENGTH.................    1
MAX INELASTIC DISPL. TABLE LENGTH..............    0
NO. OF ELEMENT GROUPS REQUIRING ADD. SLIP DOF .    0


IDOFA (01) =  2  Y-DISPL.F
IDOFA (02) =  4   X-ROT. F

 RELEVANT ITEMS UNITS

 STRESSES                  kPa
 Y-DISPLACEMENTS           m
 ROTATIONS                 RADIANS
 BEAM AND SLAB MOMENTS     kN*m/m
 BEAM SHEAR FORCES         kN/m
 ANCHOR FORCES             kN/m
 AXIAL FORCES IN TRUSSES   kN/m
 AXIAL FORCES SPRINGS      kN/m
 Y-REACTIONS               kN/m
 X-MOMENT REACTIONS        kN*m/m
 ETC.
```

```
+-------------------------------------------------------------------------------------------------------------------------+
|                   PARATIEPLUS(TM)   NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*              |
|                                                                                                                         |
|                                              ParatiePlus                                                                |
|                                  Exe Time :28 January 2022   16:22:51                                                   |
+-------------------------------------------------------------------------------------------------------------------------+
                   P R E P R O C E S S O R     D A T A

                   N O.  O F   C O M M A N D S    103

    1 : UNIT  m kN
    2 : TITLE New Project
    3 : DELTA 0.2
    4 : option param itemax 80
    5 : option control contact lagrange
    6 : option control hinges 0 0.0001 0.001
    7 : WALL LeftWall_36 10 324 339 1
    8 : SOIL 0_L LeftWall_36 324 339 1 0
    9 : SOIL 0_R LeftWall_36 324 339 2 180
   10 : LDATA Aate_364268_2050_L_0 343 LeftWall_36
   11 : ATREST 0.5 0.5 1
   12 : WEIGHT 19 9 10
   13 : PERMEABILITY 1E-05
   14 : RESISTANCE 10 31 0 0 0
   15 : TZDATA  LINEAR 10000 0 25 0.5 0
   16 : KSCALE  0 0
   17 : YOUNG 40000 1.2E+05
   18 : ENDL
   19 : LDATA Salt_1270_202756_L_0 335 LeftWall_36
   20 : ATREST 0.562 0.5 1
   21 : WEIGHT 20 10 10
   22 : PERMEABILITY 1E-05
   23 : RESISTANCE 10 26 0 0 0
   24 : TZDATA  LINEAR 10000 0 25 0.5 0
   25 : KSCALE  0 0
   26 : YOUNG 2E+05 6E+05
   27 : ENDL
   28 : LDATA Pa_244788_244789_L_0 331 LeftWall_36
   29 : ATREST 0.5 0.5 1
   30 : WEIGHT 22.5 12.5 10
   31 : PERMEABILITY 0.0001
   32 : RESISTANCE 50 27 0 0 0
   33 : TZDATA  LINEAR 20000 0 30 0.5 0
   34 : KSCALE  0 0
   35 : YOUNG 1E+05 3E+05
   36 : ENDL
   37 : MATERIAL Fe360_114 2.06E+08
   38 : MATERIAL C3240_112 3.3346E+07
   39 : BEAM Pali1500_253215 LeftWall_36 324 339 C3240_112 1.1067 0.80325 0.11296 20.081 00 00 0
   40 : STEP AnteOperam_1747
   41 : CHANGE Aate_364268_2050_L_0 U-FRICT=25.673 LeftWall_36
   42 : CHANGE Aate_364268_2050_L_0 D-FRICT=25.673 LeftWall_36
   43 : CHANGE Aate_364268_2050_L_0 U-KA=0.373 LeftWall_36
   44 : CHANGE Aate_364268_2050_L_0 U-KP=2.833 LeftWall_36
   45 : CHANGE Aate_364268_2050_L_0 D-KA=0.423 LeftWall_36
   46 : CHANGE Aate_364268_2050_L_0 D-KP=3.343 LeftWall_36
   47 : CHANGE Salt_1270_202756_L_0 U-FRICT=21.315 LeftWall_36
   48 : CHANGE Salt_1270_202756_L_0 D-FRICT=21.315 LeftWall_36
   49 : CHANGE Salt_1270_202756_L_0 U-KA=0.439 LeftWall_36
   50 : CHANGE Salt_1270_202756_L_0 U-KP=2.255 LeftWall_36
   51 : CHANGE Salt_1270_202756_L_0 D-KA=0.503 LeftWall_36
   52 : CHANGE Salt_1270_202756_L_0 D-KP=2.649 LeftWall_36
   53 : CHANGE Pa_244788_244789_L_0 U-FRICT=22.177 LeftWall_36
   54 : CHANGE Pa_244788_244789_L_0 D-FRICT=22.177 LeftWall_36
   55 : CHANGE Pa_244788_244789_L_0 U-KA=0.426 LeftWall_36
   56 : CHANGE Pa_244788_244789_L_0 U-KP=2.334 LeftWall_36
   57 : CHANGE Pa_244788_244789_L_0 D-KA=0.486 LeftWall_36
   58 : CHANGE Pa_244788_244789_L_0 D-KP=2.77 LeftWall_36
   59 : CHANGE Aate_364268_2050_L_0 U-COHE=8 LeftWall_36
   60 : CHANGE Aate_364268_2050_L_0 U-ADHES=0 LeftWall_36
   61 : CHANGE Aate_364268_2050_L_0 D-COHE=8 LeftWall_36
   62 : CHANGE Aate_364268_2050_L_0 D-ADHES=0 LeftWall_36
   63 : CHANGE Salt_1270_202756_L_0 U-COHE=8 LeftWall_36
   64 : CHANGE Salt_1270_202756_L_0 U-ADHES=0 LeftWall_36
   65 : CHANGE Salt_1270_202756_L_0 D-COHE=8 LeftWall_36
   66 : CHANGE Salt_1270_202756_L_0 D-ADHES=0 LeftWall_36
   67 : CHANGE Pa_244788_244789_L_0 U-COHE=40 LeftWall_36
   68 : CHANGE Pa_244788_244789_L_0 U-ADHES=0 LeftWall_36
   69 : CHANGE Pa_244788_244789_L_0 D-COHE=40 LeftWall_36
   70 : CHANGE Pa_244788_244789_L_0 D-ADHES=0 LeftWall_36
   71 : SETWALL LeftWall_36
   72 : GEOM 343 343
   73 : SURCHARGE 0 0 0 0
   74 : WATER 337.47 -0.066047 324 0 0
   75 : ENDSTEP
   76 : STEP Pre-scavo+Pali_244791
   77 : CHANGE Aate_364268_2050_L_0 U-KA=0.399 LeftWall_36
   78 : CHANGE Aate_364268_2050_L_0 U-KP=3.343 LeftWall_36
   79 : CHANGE Aate_364268_2050_L_0 D-KA=0.395 LeftWall_36
```

```
 80 : CHANGE Salt_1270_202756_L_0 U-KA=0.613 LeftWall_36
 81 : CHANGE Salt_1270_202756_L_0 U-KP=2.649 LeftWall_36
 82 : CHANGE Salt_1270_202756_L_0 D-KA=0.467 LeftWall_36
 83 : CHANGE Pa_244788_244789_L_0 U-KA=0.611 LeftWall_36
 84 : CHANGE Pa_244788_244789_L_0 U-KP=2.77 LeftWall_36
 85 : CHANGE Pa_244788_244789_L_0 D-KA=0.452 LeftWall_36
 86 : SETWALL LeftWall_36
 87 : GEOM 339 339
 88 : SURCHARGE 0 0 0 0
 89 : WATER 337.47 -0.039326 324 0 0
 90 : ADD Pali1500_253215
 91 : ENDSTEP
 92 : STEP Scavofinale_252903
 93 : SETWALL LeftWall_36
 94 : GEOM 339 333
 95 : SURCHARGE 0 0 0 0
 96 : WATER 337.47 4.9732 324 0 0
 97 : ENDSTEP
 98 : STEP Sisma_284297
 99 : SETWALL LeftWall_36
100 : GEOM 339 333
101 : SURCHARGE 0 0 0 0
102 : WATER 337.47 4.9732 324 0 0
103 : ENDSTEP
```

N O D A L P O I N T D A T A

NODE	Y-COORD	Z-COORD	/ NODE	Y-COORD	Z-COORD	/ NODE	Y-COORD	Z-COORD	/ NODE	Y-COORD	Z-COORD	/
1	10.000	339.00	/ 2	10.000	338.80	/ 3	10.000	338.60	/ 4	10.000	338.40	/
5	10.000	338.20	/ 6	10.000	338.00	/ 7	10.000	337.80	/ 8	10.000	337.60	/
9	10.000	337.40	/ 10	10.000	337.20	/ 11	10.000	337.00	/ 12	10.000	336.80	/
13	10.000	336.60	/ 14	10.000	336.40	/ 15	10.000	336.20	/ 16	10.000	336.00	/
17	10.000	335.80	/ 18	10.000	335.60	/ 19	10.000	335.40	/ 20	10.000	335.20	/
21	10.000	335.00	/ 22	10.000	334.80	/ 23	10.000	334.60	/ 24	10.000	334.40	/
25	10.000	334.20	/ 26	10.000	334.00	/ 27	10.000	333.80	/ 28	10.000	333.60	/
29	10.000	333.40	/ 30	10.000	333.20	/ 31	10.000	333.00	/ 32	10.000	332.80	/
33	10.000	332.60	/ 34	10.000	332.40	/ 35	10.000	332.20	/ 36	10.000	332.00	/
37	10.000	331.80	/ 38	10.000	331.60	/ 39	10.000	331.40	/ 40	10.000	331.20	/
41	10.000	331.00	/ 42	10.000	330.80	/ 43	10.000	330.60	/ 44	10.000	330.40	/
45	10.000	330.20	/ 46	10.000	330.00	/ 47	10.000	329.80	/ 48	10.000	329.60	/
49	10.000	329.40	/ 50	10.000	329.20	/ 51	10.000	329.00	/ 52	10.000	328.80	/
53	10.000	328.60	/ 54	10.000	328.40	/ 55	10.000	328.20	/ 56	10.000	328.00	/
57	10.000	327.80	/ 58	10.000	327.60	/ 59	10.000	327.40	/ 60	10.000	327.20	/
61	10.000	327.00	/ 62	10.000	326.80	/ 63	10.000	326.60	/ 64	10.000	326.40	/
65	10.000	326.20	/ 66	10.000	326.00	/ 67	10.000	325.80	/ 68	10.000	325.60	/
69	10.000	325.40	/ 70	10.000	325.20	/ 71	10.000	325.00	/ 72	10.000	324.80	/
73	10.000	324.60	/ 74	10.000	324.40	/ 75	10.000	324.20	/ 76	10.000	324.00	/

 ELEMENT GROUP NO. 1

0_L   :
   5 76   0   1   0   0   0   0   0   0   0   0   0   0   0   3   0   0   0   0
....
.....2D PLASTIC SOIL .....
....

element group behaviour throughout stage analysis

stage	status
1	active
2	active
3	active
4	active

 material set no.   1

 prop(1) angle   0.00000
 prop(2) layer as foreseen 1.00000

 material set no.   2

 prop(1) angle   0.00000
 prop(2) layer as foreseen 2.00000

 material set no.   3

 prop(1) angle   0.00000
 prop(2) layer as foreseen 3.00000

 element data

el	n	mat	area	.....	.....	.....	flag
1	1	1	0.1000	0.000	0.000	0.000	1.000
2	2	1	0.2000	0.000	0.000	0.000	1.000
3	3	1	0.2000	0.000	0.000	0.000	1.000
4	4	1	0.2000	0.000	0.000	0.000	1.000
5	5	1	0.2000	0.000	0.000	0.000	1.000
6	6	1	0.2000	0.000	0.000	0.000	1.000
7	7	1	0.2000	0.000	0.000	0.000	1.000
8	8	1	0.2000	0.000	0.000	0.000	1.000
9	9	1	0.2000	0.000	0.000	0.000	1.000
10	10	1	0.2000	0.000	0.000	0.000	1.000
11	11	1	0.2000	0.000	0.000	0.000	1.000
12	12	1	0.2000	0.000	0.000	0.000	1.000
13	13	1	0.2000	0.000	0.000	0.000	1.000
14	14	1	0.2000	0.000	0.000	0.000	1.000
15	15	1	0.2000	0.000	0.000	0.000	1.000
16	16	1	0.2000	0.000	0.000	0.000	1.000
17	17	1	0.2000	0.000	0.000	0.000	1.000
18	18	1	0.2000	0.000	0.000	0.000	1.000
19	19	1	0.2000	0.000	0.000	0.000	1.000
20	20	1	0.2000	0.000	0.000	0.000	1.000
21	21	2	0.2000	0.000	0.000	0.000	1.000
22	22	2	0.2000	0.000	0.000	0.000	1.000
23	23	2	0.2000	0.000	0.000	0.000	1.000
24	24	2	0.2000	0.000	0.000	0.000	1.000
25	25	2	0.2000	0.000	0.000	0.000	1.000
26	26	2	0.2000	0.000	0.000	0.000	1.000
27	27	2	0.2000	0.000	0.000	0.000	1.000
28	28	2	0.2000	0.000	0.000	0.000	1.000
29	29	2	0.2000	0.000	0.000	0.000	1.000
30	30	2	0.2000	0.000	0.000	0.000	1.000
31	31	2	0.2000	0.000	0.000	0.000	1.000
32	32	2	0.2000	0.000	0.000	0.000	1.000
33	33	2	0.2000	0.000	0.000	0.000	1.000
34	34	2	0.2000	0.000	0.000	0.000	1.000
35	35	2	0.2000	0.000	0.000	0.000	1.000
36	36	2	0.2000	0.000	0.000	0.000	1.000
37	37	2	0.2000	0.000	0.000	0.000	1.000
38	38	2	0.2000	0.000	0.000	0.000	1.000
39	39	2	0.2000	0.000	0.000	0.000	1.000
40	40	2	0.2000	0.000	0.000	0.000	1.000
41	41	3	0.2000	0.000	0.000	0.000	1.000
42	42	3	0.2000	0.000	0.000	0.000	1.000
43	43	3	0.2000	0.000	0.000	0.000	1.000

44	44	3	0.2000	0.000	0.000	0.000	1.000
45	45	3	0.2000	0.000	0.000	0.000	1.000
46	46	3	0.2000	0.000	0.000	0.000	1.000
47	47	3	0.2000	0.000	0.000	0.000	1.000
48	48	3	0.2000	0.000	0.000	0.000	1.000
49	49	3	0.2000	0.000	0.000	0.000	1.000
50	50	3	0.2000	0.000	0.000	0.000	1.000
51	51	3	0.2000	0.000	0.000	0.000	1.000
52	52	3	0.2000	0.000	0.000	0.000	1.000
53	53	3	0.2000	0.000	0.000	0.000	1.000
54	54	3	0.2000	0.000	0.000	0.000	1.000
55	55	3	0.2000	0.000	0.000	0.000	1.000
56	56	3	0.2000	0.000	0.000	0.000	1.000
57	57	3	0.2000	0.000	0.000	0.000	1.000
58	58	3	0.2000	0.000	0.000	0.000	1.000
59	59	3	0.2000	0.000	0.000	0.000	1.000
60	60	3	0.2000	0.000	0.000	0.000	1.000
61	61	3	0.2000	0.000	0.000	0.000	1.000
62	62	3	0.2000	0.000	0.000	0.000	1.000
63	63	3	0.2000	0.000	0.000	0.000	1.000
64	64	3	0.2000	0.000	0.000	0.000	1.000
65	65	3	0.2000	0.000	0.000	0.000	1.000
66	66	3	0.2000	0.000	0.000	0.000	1.000
67	67	3	0.2000	0.000	0.000	0.000	1.000
68	68	3	0.2000	0.000	0.000	0.000	1.000
69	69	3	0.2000	0.000	0.000	0.000	1.000
70	70	3	0.2000	0.000	0.000	0.000	1.000
71	71	3	0.2000	0.000	0.000	0.000	1.000
72	72	3	0.2000	0.000	0.000	0.000	1.000
73	73	3	0.2000	0.000	0.000	0.000	1.000
74	74	3	0.2000	0.000	0.000	0.000	1.000
75	75	3	0.2000	0.000	0.000	0.000	1.000
76	76	3	0.1000	0.000	0.000	0.000	1.000

 ELEMENT GROUP NO. 2

0_R   :
   5 76   0   1   0   0   0   0   0   0   0   0   0   0   0   3   0   0   0   0
....
.....2D PLASTIC SOIL .....
....

element group behaviour throughout stage analysis

stage	status
1	active
2	active
3	active
4	active

 material set no.   1

 prop(1) angle   180.000
 prop(2) layer as foreseen 1.00000

 material set no.   2

 prop(1) angle   180.000
 prop(2) layer as foreseen 2.00000

 material set no.   3

 prop(1) angle   180.000
 prop(2) layer as foreseen 3.00000

 element data

el	n	mat	area	.....	.....	.....	flag
1	1	1	0.1000	0.000	0.000	0.000	2.000
2	2	1	0.2000	0.000	0.000	0.000	2.000
3	3	1	0.2000	0.000	0.000	0.000	2.000
4	4	1	0.2000	0.000	0.000	0.000	2.000
5	5	1	0.2000	0.000	0.000	0.000	2.000
6	6	1	0.2000	0.000	0.000	0.000	2.000
7	7	1	0.2000	0.000	0.000	0.000	2.000
8	8	1	0.2000	0.000	0.000	0.000	2.000
9	9	1	0.2000	0.000	0.000	0.000	2.000
10	10	1	0.2000	0.000	0.000	0.000	2.000
11	11	1	0.2000	0.000	0.000	0.000	2.000
12	12	1	0.2000	0.000	0.000	0.000	2.000
13	13	1	0.2000	0.000	0.000	0.000	2.000
14	14	1	0.2000	0.000	0.000	0.000	2.000
15	15	1	0.2000	0.000	0.000	0.000	2.000
16	16	1	0.2000	0.000	0.000	0.000	2.000
17	17	1	0.2000	0.000	0.000	0.000	2.000
18	18	1	0.2000	0.000	0.000	0.000	2.000
19	19	1	0.2000	0.000	0.000	0.000	2.000
20	20	1	0.2000	0.000	0.000	0.000	2.000
21	21	2	0.2000	0.000	0.000	0.000	2.000
22	22	2	0.2000	0.000	0.000	0.000	2.000
23	23	2	0.2000	0.000	0.000	0.000	2.000
24	24	2	0.2000	0.000	0.000	0.000	2.000
25	25	2	0.2000	0.000	0.000	0.000	2.000
26	26	2	0.2000	0.000	0.000	0.000	2.000
27	27	2	0.2000	0.000	0.000	0.000	2.000
28	28	2	0.2000	0.000	0.000	0.000	2.000
29	29	2	0.2000	0.000	0.000	0.000	2.000
30	30	2	0.2000	0.000	0.000	0.000	2.000
31	31	2	0.2000	0.000	0.000	0.000	2.000
32	32	2	0.2000	0.000	0.000	0.000	2.000
33	33	2	0.2000	0.000	0.000	0.000	2.000
34	34	2	0.2000	0.000	0.000	0.000	2.000
35	35	2	0.2000	0.000	0.000	0.000	2.000
36	36	2	0.2000	0.000	0.000	0.000	2.000
37	37	2	0.2000	0.000	0.000	0.000	2.000
38	38	2	0.2000	0.000	0.000	0.000	2.000
39	39	2	0.2000	0.000	0.000	0.000	2.000
40	40	2	0.2000	0.000	0.000	0.000	2.000
41	41	3	0.2000	0.000	0.000	0.000	2.000
42	42	3	0.2000	0.000	0.000	0.000	2.000
43	43	3	0.2000	0.000	0.000	0.000	2.000

44	44	3	0.2000	0.000	0.000	0.000	2.000
45	45	3	0.2000	0.000	0.000	0.000	2.000
46	46	3	0.2000	0.000	0.000	0.000	2.000
47	47	3	0.2000	0.000	0.000	0.000	2.000
48	48	3	0.2000	0.000	0.000	0.000	2.000
49	49	3	0.2000	0.000	0.000	0.000	2.000
50	50	3	0.2000	0.000	0.000	0.000	2.000
51	51	3	0.2000	0.000	0.000	0.000	2.000
52	52	3	0.2000	0.000	0.000	0.000	2.000
53	53	3	0.2000	0.000	0.000	0.000	2.000
54	54	3	0.2000	0.000	0.000	0.000	2.000
55	55	3	0.2000	0.000	0.000	0.000	2.000
56	56	3	0.2000	0.000	0.000	0.000	2.000
57	57	3	0.2000	0.000	0.000	0.000	2.000
58	58	3	0.2000	0.000	0.000	0.000	2.000
59	59	3	0.2000	0.000	0.000	0.000	2.000
60	60	3	0.2000	0.000	0.000	0.000	2.000
61	61	3	0.2000	0.000	0.000	0.000	2.000
62	62	3	0.2000	0.000	0.000	0.000	2.000
63	63	3	0.2000	0.000	0.000	0.000	2.000
64	64	3	0.2000	0.000	0.000	0.000	2.000
65	65	3	0.2000	0.000	0.000	0.000	2.000
66	66	3	0.2000	0.000	0.000	0.000	2.000
67	67	3	0.2000	0.000	0.000	0.000	2.000
68	68	3	0.2000	0.000	0.000	0.000	2.000
69	69	3	0.2000	0.000	0.000	0.000	2.000
70	70	3	0.2000	0.000	0.000	0.000	2.000
71	71	3	0.2000	0.000	0.000	0.000	2.000
72	72	3	0.2000	0.000	0.000	0.000	2.000
73	73	3	0.2000	0.000	0.000	0.000	2.000
74	74	3	0.2000	0.000	0.000	0.000	2.000
75	75	3	0.2000	0.000	0.000	0.000	2.000
76	76	3	0.1000	0.000	0.000	0.000	2.000

ELEMENT GROUP NO. 3

Pali1500_253215 :

2 75 0 1 0 0 0 0 0 0 0 0 0 0 0 1 0 0 1 0

.....

.....2D WALL ELEMENT.....

.....

element group behaviour throughout stage analysis

stage	status
1	inactive
2	active
3	active
4	active

material set no. 1

prop(1) young modulus 0.333500E+08
prop(2) modification time 0.00000
prop(3) new young modulus 0.00000
prop(4) poisson ratio 0.00000
prop(5) future 0.00000

no. of step variable items: 1

step	inertia multipier
1	1.000
2	1.000
3	1.000
4	1.000

element data

el	na	nb	mat	erc1	erc2	thick	area	inertia	wgt(-z)	by-i	by-j
1	1	2	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
2	2	3	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
3	3	4	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
4	4	5	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
5	5	6	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
6	6	7	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
7	7	8	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
8	8	9	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
9	9	10	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
10	10	11	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
11	11	12	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
12	12	13	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
13	13	14	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
14	14	15	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
15	15	16	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
16	16	17	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
17	17	18	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
18	18	19	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
19	19	20	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
20	20	21	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
21	21	22	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
22	22	23	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
23	23	24	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
24	24	25	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
25	25	26	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
26	26	27	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
27	27	28	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
28	28	29	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
29	29	30	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
30	30	31	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
31	31	32	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
32	32	33	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
33	33	34	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
34	34	35	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
35	35	36	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
36	36	37	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
37	37	38	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
38	38	39	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
39	39	40	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
40	40	41	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
41	41	42	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
42	42	43	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
43	43	44	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
44	44	45	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
45	45	46	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000

46	46	47	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
47	47	48	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
48	48	49	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
49	49	50	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
50	50	51	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
51	51	52	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
52	52	53	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
53	53	54	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
54	54	55	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
55	55	56	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
56	56	57	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
57	57	58	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
58	58	59	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
59	59	60	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
60	60	61	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
61	61	62	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
62	62	63	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
63	63	64	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
64	64	65	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
65	65	66	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
66	66	67	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
67	67	68	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
68	68	69	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
69	69	70	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
70	70	71	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
71	71	72	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
72	72	73	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
73	73	74	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
74	74	75	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
75	75	76	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000

```
+-------------------------------------------------------------------------------------------------------------------------+
|                   PARATIEPLUS(TM)   NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*              |
|                                                                                                                         |
|                                                ParatiePlus                                                              |
|                                  Exe Time :28 January 2022   16:22:52                                                   |
+-------------------------------------------------------------------------------------------------------------------------+


NO. OF NODAL LOADS  (NLOAD) ...................    0
NO. OF LOAD CURVES  (NLCUR) ...................    8
MAXIMUM POINTS/LCURVE (NPTM)...................    5
```

L O A D D A T A

LOAD FUNCTION NUMBER = 1
NUMBER OF TIME POINTS = 5

TIME VALUE	FUNCTION
0.00000	0.0000E+00
0.80000	0.0000E+00
1.00000	0.1000E+01
1.20000	0.0000E+00
5.00000	0.0000E+00

LOAD FUNCTION NUMBER = 2
NUMBER OF TIME POINTS = 5

TIME VALUE	FUNCTION
0.00000	0.0000E+00
1.80000	0.0000E+00
2.00000	0.1000E+01
2.20000	0.0000E+00
5.00000	0.0000E+00

LOAD FUNCTION NUMBER = 3
NUMBER OF TIME POINTS = 5

TIME VALUE	FUNCTION
0.00000	0.0000E+00
2.80000	0.0000E+00
3.00000	0.1000E+01
3.20000	0.0000E+00
5.00000	0.0000E+00

LOAD FUNCTION NUMBER = 4
NUMBER OF TIME POINTS = 5

TIME VALUE	FUNCTION
0.00000	0.0000E+00
3.80000	0.0000E+00
4.00000	0.1000E+01
4.20000	0.0000E+00
5.00000	0.0000E+00

LOAD FUNCTION NUMBER = 5
NUMBER OF TIME POINTS = 4

TIME VALUE	FUNCTION
0.00000	0.0000E+00
0.80000	0.0000E+00
1.00000	0.1000E+01
5.00000	0.1000E+01

LOAD FUNCTION NUMBER = 6
NUMBER OF TIME POINTS = 4

TIME VALUE	FUNCTION
0.00000	0.0000E+00
1.80000	0.0000E+00
2.00000	0.1000E+01
5.00000	0.1000E+01

LOAD FUNCTION NUMBER = 7
NUMBER OF TIME POINTS = 4

```
    TIME VALUE      FUNCTION

       0.00000    0.0000E+00
       2.80000    0.0000E+00
       3.00000    0.1000E+01
       5.00000    0.1000E+01



    LOAD FUNCTION NUMBER   =    8
    NUMBER OF TIME POINTS  =    4

    TIME VALUE      FUNCTION

       0.00000    0.0000E+00
       3.80000    0.0000E+00
       4.00000    0.1000E+01
       5.00000    0.1000E+01


NO. OF DISTRIBUTED LOAD CARDS     0
```

L O A D B A L A N C E

STEP 1 TOTAL APPLIED LOAD IN DIR. 2 Y-DISPL.F 0.0000000
STEP 1 TOTAL APPLIED LOAD IN DIR. 4 X-ROT. F 0.0000000

STEP 2 TOTAL APPLIED LOAD IN DIR. 2 Y-DISPL.F 0.0000000
STEP 2 TOTAL APPLIED LOAD IN DIR. 4 X-ROT. F 0.0000000

STEP 3 TOTAL APPLIED LOAD IN DIR. 2 Y-DISPL.F 0.0000000
STEP 3 TOTAL APPLIED LOAD IN DIR. 4 X-ROT. F 0.0000000

STEP 4 TOTAL APPLIED LOAD IN DIR. 2 Y-DISPL.F 0.0000000
STEP 4 TOTAL APPLIED LOAD IN DIR. 4 X-ROT. F 0.0000000

LOAD INPUT SECTION COMPLETED

```
+-------------------------------------------------------------------------------------------------------------------------+
|                  PARATIEPLUS(TM)   NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*              |
|                                                                                                                         |
|                                                ParatiePlus                                                              |
|                                Exe Time :28 January 2022   16:22:52                                                     |
+-------------------------------------------------------------------------------------------------------------------------+


NO. OF LAYERS ..............................    3
NO. OF DATA PER LAYER.......................  160
```

LAYER DESCRIPTORS FOR STEP NO. 1

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 1 FOR STEP NO. 1

ITEM NO. 1<NAME >= 12.000 (BOTH WALLS)
ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
ITEM NO. 3<LEVEL >= 343.00 (BOTH WALLS)
ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)
ITEM NO. 5<GAMMAD >= 19.000 (BOTH WALLS)
ITEM NO. 6<GAMMAB >= 9.0000 (BOTH WALLS)
ITEM NO. 7<GAMMAW >= 10.000 (BOTH WALLS)
ITEM NO. 8<U-COHE >= 8.0000 WALL NO. 1
ITEM NO. 8<U-COHE >= 10.000 WALL NO. 2
ITEM NO. 9<U-FRICT >= 25.673 WALL NO. 1
ITEM NO. 9<U-FRICT >= 31.000 WALL NO. 2
ITEM NO. 10<U-KA >= 0.37300 WALL NO. 1
ITEM NO. 11<U-KP >= 2.8330 WALL NO. 1
ITEM NO. 12<K0-NC >= 0.50000 (BOTH WALLS)
ITEM NO. 13<NEXP >= 0.50000 (BOTH WALLS)
ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)
ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)
ITEM NO. 17<EVC >= 40000. (BOTH WALLS)
ITEM NO. 18<EUR >= 0.12000E+06 (BOTH WALLS)
ITEM NO. 27<U-PERM >= 0.10000E-04 (BOTH WALLS)
ITEM NO. 58<U-TZKZ >= 10000. (BOTH WALLS)
ITEM NO. 60<U-TZDELT>= 25.000 (BOTH WALLS)
ITEM NO. 61<U-TZALPH>= 0.50000 (BOTH WALLS)
ITEM NO. 82<D-NATURE>= 1.0000 (BOTH WALLS)
ITEM NO. 83<D-LEVEL >= 343.00 (BOTH WALLS)
ITEM NO. 88<D-COHE >= 8.0000 WALL NO. 1
ITEM NO. 88<D-COHE >= 10.000 WALL NO. 2
ITEM NO. 89<D-FRICT >= 25.673 WALL NO. 1
ITEM NO. 89<D-FRICT >= 31.000 WALL NO. 2
ITEM NO. 90<D-KA >= 0.42300 WALL NO. 1
ITEM NO. 91<D-KP >= 3.3430 WALL NO. 1
ITEM NO. 107<D-PERM >= 0.10000E-04 (BOTH WALLS)
ITEM NO. 138<D-TZKZ >= 10000. (BOTH WALLS)
ITEM NO. 140<D-TZDELT>= 25.000 (BOTH WALLS)
ITEM NO. 141<D-TZALPH>= 0.50000 (BOTH WALLS)

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 2 FOR STEP NO. 1

ITEM NO. 1<NAME >= 13.000 (BOTH WALLS)
ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
ITEM NO. 3<LEVEL >= 335.00 (BOTH WALLS)
ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)
ITEM NO. 5<GAMMAD >= 20.000 (BOTH WALLS)
ITEM NO. 6<GAMMAB >= 10.000 (BOTH WALLS)
ITEM NO. 7<GAMMAW >= 10.000 (BOTH WALLS)
ITEM NO. 8<U-COHE >= 8.0000 WALL NO. 1
ITEM NO. 8<U-COHE >= 10.000 WALL NO. 2
ITEM NO. 9<U-FRICT >= 21.315 WALL NO. 1
ITEM NO. 9<U-FRICT >= 26.000 WALL NO. 2
ITEM NO. 10<U-KA >= 0.43900 WALL NO. 1
ITEM NO. 11<U-KP >= 2.2550 WALL NO. 1
ITEM NO. 12<K0-NC >= 0.56200 (BOTH WALLS)
ITEM NO. 13<NEXP >= 0.50000 (BOTH WALLS)
ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)
ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)
ITEM NO. 17<EVC >= 0.20000E+06 (BOTH WALLS)
ITEM NO. 18<EUR >= 0.60000E+06 (BOTH WALLS)
ITEM NO. 27<U-PERM >= 0.10000E-04 (BOTH WALLS)
ITEM NO. 58<U-TZKZ >= 10000. (BOTH WALLS)
ITEM NO. 60<U-TZDELT>= 25.000 (BOTH WALLS)
ITEM NO. 61<U-TZALPH>= 0.50000 (BOTH WALLS)
ITEM NO. 82<D-NATURE>= 1.0000 (BOTH WALLS)
ITEM NO. 83<D-LEVEL >= 0.0000 (BOTH WALLS)
ITEM NO. 88<D-COHE >= 8.0000 WALL NO. 1
ITEM NO. 88<D-COHE >= 10.000 WALL NO. 2
ITEM NO. 89<D-FRICT >= 21.315 WALL NO. 1
ITEM NO. 89<D-FRICT >= 26.000 WALL NO. 2
ITEM NO. 90<D-KA >= 0.50300 WALL NO. 1
ITEM NO. 91<D-KP >= 2.6490 WALL NO. 1
ITEM NO. 107<D-PERM >= 0.10000E-04 (BOTH WALLS)
ITEM NO. 138<D-TZKZ >= 10000. (BOTH WALLS)
ITEM NO. 140<D-TZDELT>= 25.000 (BOTH WALLS)
ITEM NO. 141<D-TZALPH>= 0.50000 (BOTH WALLS)

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 3 FOR STEP NO. 1

ITEM NO. 1<NAME >= 14.000 (BOTH WALLS)

ITEM NO. 2<NATURE >= 1.0000   (BOTH WALLS)
ITEM NO. 3<LEVEL   >= 331.00   (BOTH WALLS)
ITEM NO. 4<WALL   >= 1.0000   (BOTH WALLS)
ITEM NO. 5<GAMMAD >= 22.500   (BOTH WALLS)
ITEM NO. 6<GAMMAB >= 12.500   (BOTH WALLS)
ITEM NO. 7<GAMMAW >= 10.000   (BOTH WALLS)
ITEM NO. 8<U-COHE >= 40.000   WALL NO.   1
ITEM NO. 8<U-COHE >= 50.000   WALL NO.   2
ITEM NO. 9<U-FRICT >= 22.177   WALL NO.   1
ITEM NO. 9<U-FRICT >= 27.000   WALL NO.   2
ITEM NO. 10<U-KA   >= 0.42600   WALL NO.   1
ITEM NO. 11<U-KP   >= 2.3340   WALL NO.   1
ITEM NO. 12<K0-NC   >= 0.50000   (BOTH WALLS)
ITEM NO. 13<NEXP   >= 0.50000   (BOTH WALLS)
ITEM NO. 14<OCR   >= 1.0000   (BOTH WALLS)
ITEM NO. 16<MODEL   >= 1.0000   (BOTH WALLS)
ITEM NO. 17<EVC   >= 0.10000E+06 (BOTH WALLS)
ITEM NO. 18<EUR   >= 0.30000E+06 (BOTH WALLS)
ITEM NO. 27<U-PERM >= 0.10000E-03 (BOTH WALLS)
ITEM NO. 58<U-TZKZ >= 20000.   (BOTH WALLS)
ITEM NO. 60<U-TZDELT>= 30.000   (BOTH WALLS)
ITEM NO. 61<U-TZALPH>= 0.50000   (BOTH WALLS)
ITEM NO. 82<D-NATURE>= 1.0000   (BOTH WALLS)
ITEM NO. 83<D-LEVEL >= 0.0000   (BOTH WALLS)
ITEM NO. 88<D-COHE >= 40.000   WALL NO.   1
ITEM NO. 88<D-COHE >= 50.000   WALL NO.   2
ITEM NO. 89<D-FRICT >= 22.177   WALL NO.   1
ITEM NO. 89<D-FRICT >= 27.000   WALL NO.   2
ITEM NO. 90<D-KA   >= 0.48600   WALL NO.   1
ITEM NO. 91<D-KP   >= 2.7700   WALL NO.   1
ITEM NO. 107<D-PERM >= 0.10000E-03 (BOTH WALLS)
ITEM NO. 138<D-TZKZ >= 20000.   (BOTH WALLS)
ITEM NO. 140<D-TZDELT>= 30.000   (BOTH WALLS)
ITEM NO. 141<D-TZALPH>= 0.50000   (BOTH WALLS)

LAYER DESCRIPTORS FOR STEP NO.   2

 NON ZERO LAYER DESCRIPTORS FOR LAYER NO.   1 FOR STEP NO.   2

ITEM NO. 1<NAME   >= 12.000   (BOTH WALLS)
ITEM NO. 2<NATURE >= 1.0000   (BOTH WALLS)
ITEM NO. 3<LEVEL   >= 343.00   (BOTH WALLS)
ITEM NO. 4<WALL   >= 1.0000   (BOTH WALLS)
ITEM NO. 5<GAMMAD >= 19.000   (BOTH WALLS)
ITEM NO. 6<GAMMAB >= 9.0000   (BOTH WALLS)
ITEM NO. 7<GAMMAW >= 10.000   (BOTH WALLS)
ITEM NO. 8<U-COHE >= 8.0000   WALL NO.   1
ITEM NO. 8<U-COHE >= 10.000   WALL NO.   2
ITEM NO. 9<U-FRICT >= 25.673   WALL NO.   1
ITEM NO. 9<U-FRICT >= 31.000   WALL NO.   2
ITEM NO. 10<U-KA   >= 0.39900   WALL NO.   1
ITEM NO. 11<U-KP   >= 3.3430   WALL NO.   1
ITEM NO. 12<K0-NC   >= 0.50000   (BOTH WALLS)
ITEM NO. 13<NEXP   >= 0.50000   (BOTH WALLS)
ITEM NO. 14<OCR   >= 1.0000   (BOTH WALLS)
ITEM NO. 16<MODEL   >= 1.0000   (BOTH WALLS)
ITEM NO. 17<EVC   >= 40000.   (BOTH WALLS)
ITEM NO. 18<EUR   >= 0.12000E+06 (BOTH WALLS)
ITEM NO. 27<U-PERM >= 0.10000E-04 (BOTH WALLS)
ITEM NO. 58<U-TZKZ >= 10000.   (BOTH WALLS)
ITEM NO. 60<U-TZDELT>= 25.000   (BOTH WALLS)
ITEM NO. 61<U-TZALPH>= 0.50000   (BOTH WALLS)
ITEM NO. 82<D-NATURE>= 1.0000   (BOTH WALLS)
ITEM NO. 83<D-LEVEL >= 343.00   (BOTH WALLS)
ITEM NO. 88<D-COHE >= 8.0000   WALL NO.   1
ITEM NO. 88<D-COHE >= 10.000   WALL NO.   2
ITEM NO. 89<D-FRICT >= 25.673   WALL NO.   1
ITEM NO. 89<D-FRICT >= 31.000   WALL NO.   2
ITEM NO. 90<D-KA   >= 0.39500   WALL NO.   1
ITEM NO. 91<D-KP   >= 3.3430   WALL NO.   1
ITEM NO. 107<D-PERM >= 0.10000E-04 (BOTH WALLS)
ITEM NO. 138<D-TZKZ >= 10000.   (BOTH WALLS)
ITEM NO. 140<D-TZDELT>= 25.000   (BOTH WALLS)
ITEM NO. 141<D-TZALPH>= 0.50000   (BOTH WALLS)

 NON ZERO LAYER DESCRIPTORS FOR LAYER NO.   2 FOR STEP NO.   2

ITEM NO. 1<NAME   >= 13.000   (BOTH WALLS)
ITEM NO. 2<NATURE >= 1.0000   (BOTH WALLS)
ITEM NO. 3<LEVEL   >= 335.00   (BOTH WALLS)
ITEM NO. 4<WALL   >= 1.0000   (BOTH WALLS)
ITEM NO. 5<GAMMAD >= 20.000   (BOTH WALLS)
ITEM NO. 6<GAMMAB >= 10.000   (BOTH WALLS)
ITEM NO. 7<GAMMAW >= 10.000   (BOTH WALLS)
ITEM NO. 8<U-COHE >= 8.0000   WALL NO.   1
ITEM NO. 8<U-COHE >= 10.000   WALL NO.   2
ITEM NO. 9<U-FRICT >= 21.315   WALL NO.   1
ITEM NO. 9<U-FRICT >= 26.000   WALL NO.   2
ITEM NO. 10<U-KA   >= 0.61300   WALL NO.   1
ITEM NO. 11<U-KP   >= 2.6490   WALL NO.   1
ITEM NO. 12<K0-NC   >= 0.56200   (BOTH WALLS)

ITEM NO. 13<NEXP   >= 0.50000   (BOTH WALLS)
ITEM NO. 14<OCR   >= 1.0000   (BOTH WALLS)
ITEM NO. 16<MODEL   >= 1.0000   (BOTH WALLS)
ITEM NO. 17<EVC   >= 0.20000E+06 (BOTH WALLS)
ITEM NO. 18<EUR   >= 0.60000E+06 (BOTH WALLS)
ITEM NO. 27<U-PERM >= 0.10000E-04 (BOTH WALLS)
ITEM NO. 58<U-TZKZ >= 10000.   (BOTH WALLS)
ITEM NO. 60<U-TZDELT>= 25.000   (BOTH WALLS)
ITEM NO. 61<U-TZALPH>= 0.50000   (BOTH WALLS)
ITEM NO. 82<D-NATURE>= 1.0000   (BOTH WALLS)
ITEM NO. 83<D-LEVEL >= 0.0000   (BOTH WALLS)
ITEM NO. 88<D-COHE >= 8.0000   WALL NO.   1
ITEM NO. 88<D-COHE >= 10.000   WALL NO.   2
ITEM NO. 89<D-FRICT >= 21.315   WALL NO.   1
ITEM NO. 89<D-FRICT >= 26.000   WALL NO.   2
ITEM NO. 90<D-KA   >= 0.46700   WALL NO.   1
ITEM NO. 91<D-KP   >= 2.6490   WALL NO.   1
ITEM NO. 107<D-PERM >= 0.10000E-04 (BOTH WALLS)
ITEM NO. 138<D-TZKZ >= 10000.   (BOTH WALLS)
ITEM NO. 140<D-TZDELT>= 25.000   (BOTH WALLS)
ITEM NO. 141<D-TZALPH>= 0.50000   (BOTH WALLS)

 NON ZERO LAYER DESCRIPTORS FOR LAYER NO.   3 FOR STEP NO.   2

ITEM NO.   1<NAME   >= 14.000   (BOTH WALLS)
ITEM NO.   2<NATURE >= 1.0000   (BOTH WALLS)
ITEM NO.   3<LEVEL   >= 331.00   (BOTH WALLS)
ITEM NO.   4<WALL   >= 1.0000   (BOTH WALLS)
ITEM NO.   5<GAMMAD >= 22.500   (BOTH WALLS)
ITEM NO.   6<GAMMAB >= 12.500   (BOTH WALLS)
ITEM NO.   7<GAMMAW >= 10.000   (BOTH WALLS)
ITEM NO.   8<U-COHE >= 40.000   WALL NO.   1
ITEM NO.   8<U-COHE >= 50.000   WALL NO.   2
ITEM NO.   9<U-FRICT >= 22.177   WALL NO.   1
ITEM NO.   9<U-FRICT >= 27.000   WALL NO.   2
ITEM NO. 10<U-KA   >= 0.61100   WALL NO.   1
ITEM NO. 11<U-KP   >= 2.7700   WALL NO.   1
ITEM NO. 12<K0-NC   >= 0.50000   (BOTH WALLS)
ITEM NO. 13<NEXP   >= 0.50000   (BOTH WALLS)
ITEM NO. 14<OCR   >= 1.0000   (BOTH WALLS)
ITEM NO. 16<MODEL   >= 1.0000   (BOTH WALLS)
ITEM NO. 17<EVC   >= 0.10000E+06 (BOTH WALLS)
ITEM NO. 18<EUR   >= 0.30000E+06 (BOTH WALLS)
ITEM NO. 27<U-PERM >= 0.10000E-03 (BOTH WALLS)
ITEM NO. 58<U-TZKZ >= 20000.   (BOTH WALLS)
ITEM NO. 60<U-TZDELT>= 30.000   (BOTH WALLS)
ITEM NO. 61<U-TZALPH>= 0.50000   (BOTH WALLS)
ITEM NO. 82<D-NATURE>= 1.0000   (BOTH WALLS)
ITEM NO. 83<D-LEVEL >= 0.0000   (BOTH WALLS)
ITEM NO. 88<D-COHE >= 40.000   WALL NO.   1
ITEM NO. 88<D-COHE >= 50.000   WALL NO.   2
ITEM NO. 89<D-FRICT >= 22.177   WALL NO.   1
ITEM NO. 89<D-FRICT >= 27.000   WALL NO.   2
ITEM NO. 90<D-KA   >= 0.45200   WALL NO.   1
ITEM NO. 91<D-KP   >= 2.7700   WALL NO.   1
ITEM NO. 107<D-PERM >= 0.10000E-03 (BOTH WALLS)
ITEM NO. 138<D-TZKZ >= 20000.   (BOTH WALLS)
ITEM NO. 140<D-TZDELT>= 30.000   (BOTH WALLS)
ITEM NO. 141<D-TZALPH>= 0.50000   (BOTH WALLS)

LAYER DESCRIPTORS FOR STEP NO.   3

 NON ZERO LAYER DESCRIPTORS FOR LAYER NO.   1 FOR STEP NO.   3

ITEM NO.   1<NAME   >= 12.000   (BOTH WALLS)
ITEM NO.   2<NATURE >= 1.0000   (BOTH WALLS)
ITEM NO.   3<LEVEL   >= 343.00   (BOTH WALLS)
ITEM NO.   4<WALL   >= 1.0000   (BOTH WALLS)
ITEM NO.   5<GAMMAD >= 19.000   (BOTH WALLS)
ITEM NO.   6<GAMMAB >= 9.0000   (BOTH WALLS)
ITEM NO.   7<GAMMAW >= 10.000   (BOTH WALLS)
ITEM NO.   8<U-COHE >= 8.0000   WALL NO.   1
ITEM NO.   8<U-COHE >= 10.000   WALL NO.   2
ITEM NO.   9<U-FRICT >= 25.673   WALL NO.   1
ITEM NO.   9<U-FRICT >= 31.000   WALL NO.   2
ITEM NO. 10<U-KA   >= 0.39900   WALL NO.   1
ITEM NO. 11<U-KP   >= 3.3430   WALL NO.   1
ITEM NO. 12<K0-NC   >= 0.50000   (BOTH WALLS)
ITEM NO. 13<NEXP   >= 0.50000   (BOTH WALLS)
ITEM NO. 14<OCR   >= 1.0000   (BOTH WALLS)
ITEM NO. 16<MODEL   >= 1.0000   (BOTH WALLS)
ITEM NO. 17<EVC   >= 40000.   (BOTH WALLS)
ITEM NO. 18<EUR   >= 0.12000E+06 (BOTH WALLS)
ITEM NO. 27<U-PERM >= 0.10000E-04 (BOTH WALLS)
ITEM NO. 58<U-TZKZ >= 10000.   (BOTH WALLS)
ITEM NO. 60<U-TZDELT>= 25.000   (BOTH WALLS)
ITEM NO. 61<U-TZALPH>= 0.50000   (BOTH WALLS)
ITEM NO. 82<D-NATURE>= 1.0000   (BOTH WALLS)
ITEM NO. 83<D-LEVEL >= 343.00   (BOTH WALLS)
ITEM NO. 88<D-COHE >= 8.0000   WALL NO.   1
ITEM NO. 88<D-COHE >= 10.000   WALL NO.   2

ITEM NO. 89<D-FRICT >= 25.673   WALL NO.   1
ITEM NO. 89<D-FRICT >= 31.000   WALL NO.   2
ITEM NO. 90<D-KA   >= 0.39500   WALL NO.   1
ITEM NO. 91<D-KP   >= 3.3430   WALL NO.   1
ITEM NO. 107<D-PERM >= 0.10000E-04 (BOTH WALLS)
ITEM NO. 138<D-TZKZ >= 10000.   (BOTH WALLS)
ITEM NO. 140<D-TZDELT>= 25.000   (BOTH WALLS)
ITEM NO. 141<D-TZALPH>= 0.50000   (BOTH WALLS)

 NON ZERO LAYER DESCRIPTORS FOR LAYER NO.   2 FOR STEP NO.   3

ITEM NO.   1<NAME   >= 13.000   (BOTH WALLS)
ITEM NO.   2<NATURE >= 1.0000   (BOTH WALLS)
ITEM NO.   3<LEVEL   >= 335.00   (BOTH WALLS)
ITEM NO.   4<WALL   >= 1.0000   (BOTH WALLS)
ITEM NO.   5<GAMMAD >= 20.000   (BOTH WALLS)
ITEM NO.   6<GAMMAB >= 10.000   (BOTH WALLS)
ITEM NO.   7<GAMMAW >= 10.000   (BOTH WALLS)
ITEM NO.   8<U-COHE >= 8.0000   WALL NO.   1
ITEM NO.   8<U-COHE >= 10.000   WALL NO.   2
ITEM NO.   9<U-FRICT >= 21.315   WALL NO.   1
ITEM NO.   9<U-FRICT >= 26.000   WALL NO.   2
ITEM NO. 10<U-KA   >= 0.61300   WALL NO.   1
ITEM NO. 11<U-KP   >= 2.6490   WALL NO.   1
ITEM NO. 12<K0-NC   >= 0.56200   (BOTH WALLS)
ITEM NO. 13<NEXP   >= 0.50000   (BOTH WALLS)
ITEM NO. 14<OCR   >= 1.0000   (BOTH WALLS)
ITEM NO. 16<MODEL   >= 1.0000   (BOTH WALLS)
ITEM NO. 17<EVC   >= 0.20000E+06 (BOTH WALLS)
ITEM NO. 18<EUR   >= 0.60000E+06 (BOTH WALLS)
ITEM NO. 27<U-PERM >= 0.10000E-04 (BOTH WALLS)
ITEM NO. 58<U-TZKZ >= 10000.   (BOTH WALLS)
ITEM NO. 60<U-TZDELT>= 25.000   (BOTH WALLS)
ITEM NO. 61<U-TZALPH>= 0.50000   (BOTH WALLS)
ITEM NO. 82<D-NATURE>= 1.0000   (BOTH WALLS)
ITEM NO. 83<D-LEVEL >= 0.0000   (BOTH WALLS)
ITEM NO. 88<D-COHE >= 8.0000   WALL NO.   1
ITEM NO. 88<D-COHE >= 10.000   WALL NO.   2
ITEM NO. 89<D-FRICT >= 21.315   WALL NO.   1
ITEM NO. 89<D-FRICT >= 26.000   WALL NO.   2
ITEM NO. 90<D-KA   >= 0.46700   WALL NO.   1
ITEM NO. 91<D-KP   >= 2.6490   WALL NO.   1
ITEM NO. 107<D-PERM >= 0.10000E-04 (BOTH WALLS)
ITEM NO. 138<D-TZKZ >= 10000.   (BOTH WALLS)
ITEM NO. 140<D-TZDELT>= 25.000   (BOTH WALLS)
ITEM NO. 141<D-TZALPH>= 0.50000   (BOTH WALLS)

 NON ZERO LAYER DESCRIPTORS FOR LAYER NO.   3 FOR STEP NO.   3

ITEM NO.   1<NAME   >= 14.000   (BOTH WALLS)
ITEM NO.   2<NATURE >= 1.0000   (BOTH WALLS)
ITEM NO.   3<LEVEL   >= 331.00   (BOTH WALLS)
ITEM NO.   4<WALL   >= 1.0000   (BOTH WALLS)
ITEM NO.   5<GAMMAD >= 22.500   (BOTH WALLS)
ITEM NO.   6<GAMMAB >= 12.500   (BOTH WALLS)
ITEM NO.   7<GAMMAW >= 10.000   (BOTH WALLS)
ITEM NO.   8<U-COHE >= 40.000   WALL NO.   1
ITEM NO.   8<U-COHE >= 50.000   WALL NO.   2
ITEM NO.   9<U-FRICT >= 22.177   WALL NO.   1
ITEM NO.   9<U-FRICT >= 27.000   WALL NO.   2
ITEM NO. 10<U-KA   >= 0.61100   WALL NO.   1
ITEM NO. 11<U-KP   >= 2.7700   WALL NO.   1
ITEM NO. 12<K0-NC   >= 0.50000   (BOTH WALLS)
ITEM NO. 13<NEXP   >= 0.50000   (BOTH WALLS)
ITEM NO. 14<OCR   >= 1.0000   (BOTH WALLS)
ITEM NO. 16<MODEL   >= 1.0000   (BOTH WALLS)
ITEM NO. 17<EVC   >= 0.10000E+06 (BOTH WALLS)
ITEM NO. 18<EUR   >= 0.30000E+06 (BOTH WALLS)
ITEM NO. 27<U-PERM >= 0.10000E-03 (BOTH WALLS)
ITEM NO. 58<U-TZKZ >= 20000.   (BOTH WALLS)
ITEM NO. 60<U-TZDELT>= 30.000   (BOTH WALLS)
ITEM NO. 61<U-TZALPH>= 0.50000   (BOTH WALLS)
ITEM NO. 82<D-NATURE>= 1.0000   (BOTH WALLS)
ITEM NO. 83<D-LEVEL >= 0.0000   (BOTH WALLS)
ITEM NO. 88<D-COHE >= 40.000   WALL NO.   1
ITEM NO. 88<D-COHE >= 50.000   WALL NO.   2
ITEM NO. 89<D-FRICT >= 22.177   WALL NO.   1
ITEM NO. 89<D-FRICT >= 27.000   WALL NO.   2
ITEM NO. 90<D-KA   >= 0.45200   WALL NO.   1
ITEM NO. 91<D-KP   >= 2.7700   WALL NO.   1
ITEM NO. 107<D-PERM >= 0.10000E-03 (BOTH WALLS)
ITEM NO. 138<D-TZKZ >= 20000.   (BOTH WALLS)
ITEM NO. 140<D-TZDELT>= 30.000   (BOTH WALLS)
ITEM NO. 141<D-TZALPH>= 0.50000   (BOTH WALLS)

LAYER DESCRIPTORS FOR STEP NO.   4

 NON ZERO LAYER DESCRIPTORS FOR LAYER NO.   1 FOR STEP NO.   4

ITEM NO.   1<NAME   >= 12.000   (BOTH WALLS)
ITEM NO.   2<NATURE >= 1.0000   (BOTH WALLS)

ITEM NO. 3<LEVEL >= 343.00 (BOTH WALLS)
ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)
ITEM NO. 5<GAMMAD >= 19.000 (BOTH WALLS)
ITEM NO. 6<GAMMAB >= 9.0000 (BOTH WALLS)
ITEM NO. 7<GAMMAW >= 10.000 (BOTH WALLS)
ITEM NO. 8<U-COHE >= 8.0000 WALL NO. 1
ITEM NO. 8<U-COHE >= 10.000 WALL NO. 2
ITEM NO. 9<U-FRICT >= 25.673 WALL NO. 1
ITEM NO. 9<U-FRICT >= 31.000 WALL NO. 2
ITEM NO. 10<U-KA >= 0.39900 WALL NO. 1
ITEM NO. 11<U-KP >= 3.3430 WALL NO. 1
ITEM NO. 12<K0-NC >= 0.50000 (BOTH WALLS)
ITEM NO. 13<NEXP >= 0.50000 (BOTH WALLS)
ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)
ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)
ITEM NO. 17<EVC >= 40000. (BOTH WALLS)
ITEM NO. 18<EUR >= 0.12000E+06 (BOTH WALLS)
ITEM NO. 27<U-PERM >= 0.10000E-04 (BOTH WALLS)
ITEM NO. 58<U-TZKZ >= 10000. (BOTH WALLS)
ITEM NO. 60<U-TZDELT>= 25.000 (BOTH WALLS)
ITEM NO. 61<U-TZALPH>= 0.50000 (BOTH WALLS)
ITEM NO. 82<D-NATURE>= 1.0000 (BOTH WALLS)
ITEM NO. 83<D-LEVEL >= 343.00 (BOTH WALLS)
ITEM NO. 88<D-COHE >= 8.0000 WALL NO. 1
ITEM NO. 88<D-COHE >= 10.000 WALL NO. 2
ITEM NO. 89<D-FRICT >= 25.673 WALL NO. 1
ITEM NO. 89<D-FRICT >= 31.000 WALL NO. 2
ITEM NO. 90<D-KA >= 0.39500 WALL NO. 1
ITEM NO. 91<D-KP >= 3.3430 WALL NO. 1
ITEM NO. 107<D-PERM >= 0.10000E-04 (BOTH WALLS)
ITEM NO. 138<D-TZKZ >= 10000. (BOTH WALLS)
ITEM NO. 140<D-TZDELT>= 25.000 (BOTH WALLS)
ITEM NO. 141<D-TZALPH>= 0.50000 (BOTH WALLS)

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 2 FOR STEP NO. 4

ITEM NO. 1<NAME >= 13.000 (BOTH WALLS)
ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
ITEM NO. 3<LEVEL >= 335.00 (BOTH WALLS)
ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)
ITEM NO. 5<GAMMAD >= 20.000 (BOTH WALLS)
ITEM NO. 6<GAMMAB >= 10.000 (BOTH WALLS)
ITEM NO. 7<GAMMAW >= 10.000 (BOTH WALLS)
ITEM NO. 8<U-COHE >= 8.0000 WALL NO. 1
ITEM NO. 8<U-COHE >= 10.000 WALL NO. 2
ITEM NO. 9<U-FRICT >= 21.315 WALL NO. 1
ITEM NO. 9<U-FRICT >= 26.000 WALL NO. 2
ITEM NO. 10<U-KA >= 0.61300 WALL NO. 1
ITEM NO. 11<U-KP >= 2.6490 WALL NO. 1
ITEM NO. 12<K0-NC >= 0.56200 (BOTH WALLS)
ITEM NO. 13<NEXP >= 0.50000 (BOTH WALLS)
ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)
ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)
ITEM NO. 17<EVC >= 0.20000E+06 (BOTH WALLS)
ITEM NO. 18<EUR >= 0.60000E+06 (BOTH WALLS)
ITEM NO. 27<U-PERM >= 0.10000E-04 (BOTH WALLS)
ITEM NO. 58<U-TZKZ >= 10000. (BOTH WALLS)
ITEM NO. 60<U-TZDELT>= 25.000 (BOTH WALLS)
ITEM NO. 61<U-TZALPH>= 0.50000 (BOTH WALLS)
ITEM NO. 82<D-NATURE>= 1.0000 (BOTH WALLS)
ITEM NO. 83<D-LEVEL >= 0.0000 (BOTH WALLS)
ITEM NO. 88<D-COHE >= 8.0000 WALL NO. 1
ITEM NO. 88<D-COHE >= 10.000 WALL NO. 2
ITEM NO. 89<D-FRICT >= 21.315 WALL NO. 1
ITEM NO. 89<D-FRICT >= 26.000 WALL NO. 2
ITEM NO. 90<D-KA >= 0.46700 WALL NO. 1
ITEM NO. 91<D-KP >= 2.6490 WALL NO. 1
ITEM NO. 107<D-PERM >= 0.10000E-04 (BOTH WALLS)
ITEM NO. 138<D-TZKZ >= 10000. (BOTH WALLS)
ITEM NO. 140<D-TZDELT>= 25.000 (BOTH WALLS)
ITEM NO. 141<D-TZALPH>= 0.50000 (BOTH WALLS)

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 3 FOR STEP NO. 4

ITEM NO. 1<NAME >= 14.000 (BOTH WALLS)
ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
ITEM NO. 3<LEVEL >= 331.00 (BOTH WALLS)
ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)
ITEM NO. 5<GAMMAD >= 22.500 (BOTH WALLS)
ITEM NO. 6<GAMMAB >= 12.500 (BOTH WALLS)
ITEM NO. 7<GAMMAW >= 10.000 (BOTH WALLS)
ITEM NO. 8<U-COHE >= 40.000 WALL NO. 1
ITEM NO. 8<U-COHE >= 50.000 WALL NO. 2
ITEM NO. 9<U-FRICT >= 22.177 WALL NO. 1
ITEM NO. 9<U-FRICT >= 27.000 WALL NO. 2
ITEM NO. 10<U-KA >= 0.61100 WALL NO. 1
ITEM NO. 11<U-KP >= 2.7700 WALL NO. 1
ITEM NO. 12<K0-NC >= 0.50000 (BOTH WALLS)
ITEM NO. 13<NEXP >= 0.50000 (BOTH WALLS)
ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)
ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)
ITEM NO. 17<EVC >= 0.10000E+06 (BOTH WALLS)

ITEM NO. 18<EUR   >= 0.30000E+06 (BOTH WALLS)
ITEM NO. 27<U-PERM >= 0.10000E-03 (BOTH WALLS)
ITEM NO. 58<U-TZKZ >= 20000.   (BOTH WALLS)
ITEM NO. 60<U-TZDELT>= 30.000   (BOTH WALLS)
ITEM NO. 61<U-TZALPH>= 0.50000   (BOTH WALLS)
ITEM NO. 82<D-NATURE>= 1.0000   (BOTH WALLS)
ITEM NO. 83<D-LEVEL >= 0.0000   (BOTH WALLS)
ITEM NO. 88<D-COHE >= 40.000   WALL NO.   1
ITEM NO. 88<D-COHE >= 50.000   WALL NO.   2
ITEM NO. 89<D-FRICT >= 22.177   WALL NO.   1
ITEM NO. 89<D-FRICT >= 27.000   WALL NO.   2
ITEM NO. 90<D-KA   >= 0.45200   WALL NO.   1
ITEM NO. 91<D-KP   >= 2.7700   WALL NO.   1
ITEM NO. 107<D-PERM >= 0.10000E-03 (BOTH WALLS)
ITEM NO. 138<D-TZKZ >= 20000.   (BOTH WALLS)
ITEM NO. 140<D-TZDELT>= 30.000   (BOTH WALLS)
ITEM NO. 141<D-TZALPH>= 0.50000   (BOTH WALLS)

DEFAULT WATER UNIT WEIGHT = 10.000
AVERAGED ON   12 VALUES

```
+-----------------------------------------------------------------------------------------------------------------------+
|                   PARATIEPLUS(TM)   NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*             |
|                                                                                                                       |
|                                                ParatiePlus                                                            |
|                                  Exe Time :28 January 2022   16:22:52                                                 |
+-----------------------------------------------------------------------------------------------------------------------+

PHASE DESCRIPTORS


STEP  NO.     1 no. of subincrements     1
                                       LEFT WALL    RIGHT WALL
Y                                       10.00       -0.9990E+30
Z-PC                                    343.0         0.000
Z-EXCAVATION                            343.0         0.000
Z-WATER_TABLE                           337.5       -0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL               0.000         0.000
ZQ                                      0.000         0.000
DZW_OF_THE_WATER_TABLE                 -0.6605E-01    0.000
QS_ON_THE_EXCAVATION_SIDE               0.000         0.000
ZQS                                     0.000       -0.9990E+30
ZCUT                                    0.000         0.000
BALANCE LEVEL FOR PORE PRESSURES        324.0         324.0
WATER_BEHAVIOUR_FLAG (LINING OPT)       0.000         0.000
PORE_UPDATE_FLAG                        0.000         0.000
PORE_TAB. _FLAG (gt.0= use tabs)        0.000         0.000
lateral thrusts reduction elevatio      0.000         0.000
Downhill reduction factor for effe      0.000         0.000
Downhill reduction factor for pore      0.000         0.000
Uphill reduction factor for effect      0.000         0.000
Uphill reduction factor for pore p      0.000         0.000
SEISMIC HORIZONTAL ACCEL. Kh [g]        0.000         0.000
UPHILL VERTICAL ACCEL.  Kv_uh [g]       0.000         0.000
DOWNHILL VERTICAL ACCEL.Kv_dh [g]       0.000         0.000
UPHILL BETA ANGLE (SLOPE) [deg]         0.000         0.000
UPHILL DELTA/PHI RATIO                  0.000         0.000
DOWNHILL BETA ANGLE (SLOPE) [deg]       0.000         0.000
DOWNHILL DELTA/PHI RATIO                0.000         0.000
DYN.WATER BEHAVIOUR                     0.000         0.000
Excess pore pressure RATIO Ru           0.000         0.000
SEISMIC PRESSURE LOWER VALUE            0.000         0.000
SEISMIC PRESSURE UPPER VALUE            0.000         0.000
SEISMIC PRESSURE LOWER LEVEL            0.000         0.000
SEISMIC PRESSURE UPPER LEVEL            0.000         0.000

=============================================================================================================end of step    1


STEP  NO.     2 no. of subincrements     1
                                       LEFT WALL    RIGHT WALL
Y                                       10.00       -0.9990E+30
Z-PC                                    339.0         0.000
Z-EXCAVATION                            339.0         0.000
Z-WATER_TABLE                           337.5       -0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL               0.000         0.000
ZQ                                      0.000         0.000
DZW_OF_THE_WATER_TABLE                 -0.3933E-01    0.000
QS_ON_THE_EXCAVATION_SIDE               0.000         0.000
ZQS                                     0.000       -0.9990E+30
ZCUT                                    0.000         0.000
BALANCE LEVEL FOR PORE PRESSURES        324.0         324.0
WATER_BEHAVIOUR_FLAG (LINING OPT)       0.000         0.000
PORE_UPDATE_FLAG                        0.000         0.000
PORE_TAB. _FLAG (gt.0= use tabs)        0.000         0.000
lateral thrusts reduction elevatio      0.000         0.000
Downhill reduction factor for effe      0.000         0.000
Downhill reduction factor for pore      0.000         0.000
Uphill reduction factor for effect      0.000         0.000
Uphill reduction factor for pore p      0.000         0.000
SEISMIC HORIZONTAL ACCEL. Kh [g]        0.000         0.000
UPHILL VERTICAL ACCEL.  Kv_uh [g]       0.000         0.000
DOWNHILL VERTICAL ACCEL.Kv_dh [g]       0.000         0.000
UPHILL BETA ANGLE (SLOPE) [deg]         0.000         0.000
UPHILL DELTA/PHI RATIO                  0.000         0.000
DOWNHILL BETA ANGLE (SLOPE) [deg]       0.000         0.000
DOWNHILL DELTA/PHI RATIO                0.000         0.000
DYN.WATER BEHAVIOUR                     0.000         0.000
Excess pore pressure RATIO Ru           0.000         0.000
SEISMIC PRESSURE LOWER VALUE            0.000         0.000
SEISMIC PRESSURE UPPER VALUE            0.000         0.000
SEISMIC PRESSURE LOWER LEVEL            0.000         0.000
SEISMIC PRESSURE UPPER LEVEL            0.000         0.000

=============================================================================================================end of step    2


STEP  NO.     3 no. of subincrements     1
                                       LEFT WALL    RIGHT WALL
Y                                       10.00       -0.9990E+30
```

Z-PC	339.0	0.000
Z-EXCAVATION	333.0	0.000
Z-WATER_TABLE	337.5	-0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL	0.000	0.000
ZQ	0.000	0.000
DZW_OF_THE_WATER_TABLE	4.973	0.000
QS_ON_THE_EXCAVATION_SIDE	0.000	0.000
ZQS	0.000	-0.9990E+30
ZCUT	0.000	0.000
BALANCE LEVEL FOR PORE PRESSURES	324.0	324.0
WATER_BEHAVIOUR_FLAG (LINING OPT)	0.000	0.000
PORE_UPDATE_FLAG	0.000	0.000
PORE_TAB. _FLAG (gt.0= use tabs)	0.000	0.000
lateral thrusts reduction elevatio	0.000	0.000
Downhill reduction factor for effe	0.000	0.000
Downhill reduction factor for pore	0.000	0.000
Uphill reduction factor for effect	0.000	0.000
Uphill reduction factor for pore p	0.000	0.000
SEISMIC HORIZONTAL ACCEL. Kh [g]	0.000	0.000
UPHILL VERTICAL ACCEL. Kv_uh [g]	0.000	0.000
DOWNHILL VERTICAL ACCEL.Kv_dh [g]	0.000	0.000
UPHILL BETA ANGLE (SLOPE) [deg]	0.000	0.000
UPHILL DELTA/PHI RATIO	0.000	0.000
DOWNHILL BETA ANGLE (SLOPE) [deg]	0.000	0.000
DOWNHILL DELTA/PHI RATIO	0.000	0.000
DYN.WATER BEHAVIOUR	0.000	0.000
Excess pore pressure RATIO Ru	0.000	0.000
SEISMIC PRESSURE LOWER VALUE	0.000	0.000
SEISMIC PRESSURE UPPER VALUE	0.000	0.000
SEISMIC PRESSURE LOWER LEVEL	0.000	0.000
SEISMIC PRESSURE UPPER LEVEL	0.000	0.000

==========end of step   3

STEP NO.   4 no. of subincrements   1

	LEFT WALL	RIGHT WALL
Y	10.00	-0.9990E+30
Z-PC	339.0	0.000
Z-EXCAVATION	333.0	0.000
Z-WATER_TABLE	337.5	-0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL	0.000	0.000
ZQ	0.000	0.000
DZW_OF_THE_WATER_TABLE	4.973	0.000
QS_ON_THE_EXCAVATION_SIDE	0.000	0.000
ZQS	0.000	-0.9990E+30
ZCUT	0.000	0.000
BALANCE LEVEL FOR PORE PRESSURES	324.0	324.0
WATER_BEHAVIOUR_FLAG (LINING OPT)	0.000	0.000
PORE_UPDATE_FLAG	0.000	0.000
PORE_TAB. _FLAG (gt.0= use tabs)	0.000	0.000
lateral thrusts reduction elevatio	0.000	0.000
Downhill reduction factor for effe	0.000	0.000
Downhill reduction factor for pore	0.000	0.000
Uphill reduction factor for effect	0.000	0.000
Uphill reduction factor for pore p	0.000	0.000
SEISMIC HORIZONTAL ACCEL. Kh [g]	0.000	0.000
UPHILL VERTICAL ACCEL. Kv_uh [g]	0.000	0.000
DOWNHILL VERTICAL ACCEL.Kv_dh [g]	0.000	0.000
UPHILL BETA ANGLE (SLOPE) [deg]	0.000	0.000
UPHILL DELTA/PHI RATIO	0.000	0.000
DOWNHILL BETA ANGLE (SLOPE) [deg]	0.000	0.000
DOWNHILL DELTA/PHI RATIO	0.000	0.000
DYN.WATER BEHAVIOUR	0.000	0.000
Excess pore pressure RATIO Ru	0.000	0.000
SEISMIC PRESSURE LOWER VALUE	0.000	0.000
SEISMIC PRESSURE UPPER VALUE	0.000	0.000
SEISMIC PRESSURE LOWER LEVEL	0.000	0.000
SEISMIC PRESSURE UPPER LEVEL	0.000	0.000

==========end of step   4

 LEFT-HAND WALL

 LOWER LEVEL   324.00000
 UPPER LEVEL   339.00000

 RIGHT-HAND WALL

 LOWER LEVEL   324.00000
 UPPER LEVEL   339.00000

 ELEMENT GROUPS BACKUP AREA CAN STAY IN CORE AT
 POSITION   5556

 NO. OF D.P.W FOR THIS AREA   11615
 MAX NO. OF D.P.W. AVAILABLE   81920

```
 ** MAX NO OF ITERATIONS SET TO          80

ITER     0 RNORM = 0.000     RMNORM= 0.000
           RINORM=0.1526E+06 RIMNOR= 0.000
           RENORM=0.4913E-01 REMNOR= 0.000     RATIO =0.5675E-03 TOLER =0.1000E-03  NOT CONVERGED
           RFMAX = 51.81     RMMAX = 0.000
           RTSMAL=0.1000E-03 RMSMAL= 0.000
           RDT   =0.1526E+06 RDR   = 0.000
           RATIOT=0.5675E-03 RATIOR= 0.000
           MAX UN= 0.000     IEQ=   152 NODE     76 DOF   2   X-ROT. F
           MIN UN=-.6510E-01 IEQ=    17 NODE      9 DOF   1  Y-DISPL.F
           NO. OF CONTACT CONSTRAINT VIOLATIONS     0


ITER     2 RNORM = 0.000     RMNORM= 0.000
           RINORM=0.1526E+06 RIMNOR= 0.000
           RENORM=0.9466E-27 REMNOR= 0.000     RATIO =0.7877E-16 TOLER =0.1000E-03      CONVERGED !
           RFMAX = 51.81     RMMAX = 0.000
           RTSMAL=0.1000E-03 RMSMAL= 0.000
           RDT   =0.1526E+06 RDR   = 0.000
           RATIOT=0.7877E-16 RATIOR= 0.000
           MAX UN=0.1421E-13 IEQ=    89 NODE     45 DOF   1  Y-DISPL.F
           MIN UN=-.1421E-13 IEQ=   151 NODE     76 DOF   1  Y-DISPL.F
           NO. OF CONTACT CONSTRAINT VIOLATIONS     0
```

```
+-----------------------------------------------------------------------------------------------------------------------+
|                  PARATIEPLUS(TM)   NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*             |
|                                                                                                                       |
|                                                ParatiePlus                                                            |
|                                  Exe Time :28 January 2022   16:22:52                                                 |
+-----------------------------------------------------------------------------------------------------------------------+
New Project
SOLUTION REACHED USING     2 ITERATIONS ON   80

P R I N T   O U T   F O R   T I M E   S T E P   1     ( AT TIME   1.000     ) SUBINCREMENT 00001/00001

PRINT OUT OF ACTIVE COMPONENTS (FIXED NODES ARE NOT PRINTED OUT)

          Y-DISPL.F        X-ROT. F
            02               04
    9  -3.0345875E-06    0.000000
   10  -2.9491050E-06    0.000000
   11  -2.8636224E-06    0.000000
   12  -2.7781399E-06    0.000000
   13  -2.6926574E-06    0.000000
   14  -2.6071321E-06    0.000000
   15  -2.5216495E-06    0.000000
   16  -2.4361670E-06    0.000000
   17  -2.3506844E-06    0.000000
   18  -2.2652019E-06    0.000000
   19  -2.1797194E-06    0.000000
   20  -2.0942368E-06    0.000000
   21  -3.3929547E-07    0.000000
   22  -3.2484953E-07    0.000000
   23  -3.1041081E-07    0.000000
   24  -2.9597209E-07    0.000000
   25  -2.8153337E-07    0.000000
   26  -2.6709465E-07    0.000000
   27  -2.5265593E-07    0.000000
   28  -2.3821721E-07    0.000000
   29  -2.2377849E-07    0.000000
   30  -2.0933256E-07    0.000000
   31  -1.9489384E-07    0.000000
   32  -1.8045512E-07    0.000000
   33  -1.6601640E-07    0.000000
   34  -1.5157768E-07    0.000000
   35  -1.3713896E-07    0.000000
   36  -1.2270024E-07    0.000000
   37  -1.0826152E-07    0.000000
   38  -9.3815580E-08    0.000000
   39  -7.9376861E-08    0.000000
   40  -6.4938141E-08    0.000000
   41  -1.1624659E-07    0.000000
   42  -1.1292502E-07    0.000000
   43  -1.0960345E-07    0.000000
   44  -1.0628189E-07    0.000000
   45  -1.0296032E-07    0.000000
   46  -9.9638748E-08    0.000000
   47  -9.6315519E-08    0.000000
   48  -9.2993951E-08    0.000000
   49  -8.9672382E-08    0.000000
   50  -8.6350814E-08    0.000000
   51  -8.3029245E-08    0.000000
   52  -7.9707677E-08    0.000000
   53  -7.6386109E-08    0.000000
   54  -7.3064540E-08    0.000000
   55  -6.9741311E-08    0.000000
   56  -6.6419743E-08    0.000000
   57  -6.3098174E-08    0.000000
   58  -5.9776606E-08    0.000000
   59  -5.6455037E-08    0.000000
   60  -5.3133469E-08    0.000000
   61  -4.9811901E-08    0.000000
   62  -4.6490332E-08    0.000000
   63  -4.3167103E-08    0.000000
   64  -3.9845535E-08    0.000000
   65  -3.6523966E-08    0.000000
   66  -3.3202398E-08    0.000000
   67  -2.9880829E-08    0.000000
   68  -2.6559261E-08    0.000000
   69  -2.3237693E-08    0.000000
   70  -1.9916124E-08    0.000000
   71  -1.6592895E-08    0.000000
   72  -1.3271327E-08    0.000000
   73  -9.9497582E-09    0.000000
   74  -6.6281898E-09    0.000000
   75  -3.3066213E-09    0.000000
```

```
+-----------------------------------------------------------------------------------------------------------------------+
|                  PARATIEPLUS(TM)   NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*             |
|                                                                                                                       |
|                                            ParatiePlus                                                                |
|                                  Exe Time :28 January 2022   16:22:52                                                 |
+-----------------------------------------------------------------------------------------------------------------------+
New Project


S T R E S S   R E S U L T S   F O R   G R O U P   N O.   1

0_L                                                    :
ELEMENT TYPE    5 NO.OF ELEMENTS. IN THIS GROUP   76
C U R R E N T   T I M E   I S      1.0000 SUBINCREMENT 00001/00001

 HARDENING 2D SOIL ELEMENT

 ****** TOTAL STRESS FORMULATION *****

  EL *   FORCE     DISPL-Y  VERTICAL-P  HORIZON.-P     MAX-V-P     MAX-H-P          STATE   STIFFNESS Z-LEVEL      PORE       E FAC-
TOR    UFACTOR       Peq          Su_a        Su_p        Cohe_a      Cohe_p     LAYER                              ZFO         QS
QSL         ZD          ZPL          Kz
 ------------------------------------------------------------------------------------------------------------------------------
-----------------------------------------------------------------------------------------------------------------------------
-----------------------------------------------
   1 D   3.800       0.000       76.00       38.00       76.00       38.00           V-C  3.1804E+04   339.0       0.000
1.000       1.000       38.00       0.000       0.000       0.000       0.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   2 D   7.980       0.000       79.80       39.90       79.80       39.90           V-C  3.1804E+04   338.8       0.000
1.000       1.000       39.90       0.000       0.000       0.000       0.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   3 D   8.360       0.000       83.60       41.80       83.60       41.80           V-C  3.1804E+04   338.6       0.000
1.000       1.000       41.80       0.000       0.000       0.000       0.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   4 D   8.740       0.000       87.40       43.70       87.40       43.70           V-C  3.1804E+04   338.4       0.000
1.000       1.000       43.70       0.000       0.000       0.000       0.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   5 D   9.120       0.000       91.20       45.60       91.20       45.60           V-C  3.1804E+04   338.2       0.000
1.000       1.000       45.60       0.000       0.000       0.000       0.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   6 D   9.500       0.000       95.00       47.50       95.00       47.50           V-C  3.1804E+04   338.0       0.000
1.000       1.000       47.50       0.000       0.000       0.000       0.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   7 D   9.880       0.000       98.80       49.40       98.80       49.40           V-C  3.1804E+04   337.8       0.000
1.000       1.000       49.40       0.000       0.000       0.000       0.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   8 D   10.26       0.000       102.6       51.30       102.6       51.30           V-C  3.1804E+04   337.6       0.000
1.000       1.000       51.30       0.000       0.000       0.000       0.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   9 D   10.73     3.0346E-06    105.7       52.95       105.7       52.95           V-C  3.1804E+04   337.4       0.7042
1.000       1.000       53.65       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  10 D   11.31     2.9491E-06    107.5       53.84       107.5       53.84           V-C  3.1804E+04   337.2       2.713
1.000       1.000       56.55       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  11 D   11.89     2.8636E-06    109.3       54.73       109.3       54.73           V-C  3.1804E+04   337.0       4.723
1.000       1.000       59.45       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  12 D   12.47     2.7781E-06    111.1       55.62       111.1       55.62           V-C  3.1804E+04   336.8       6.732
1.000       1.000       62.36       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  13 D   13.05     2.6927E-06    112.9       56.52       112.9       56.52           V-C  3.1804E+04   336.6       8.741
1.000       1.000       65.26       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  14 D   13.63     2.6071E-06    114.7       57.41       114.7       57.41           V-C  3.1804E+04   336.4       10.75
1.000       1.000       68.16       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  15 D   14.21     2.5216E-06    116.4       58.30       116.4       58.30           V-C  3.1804E+04   336.2       12.76
1.000       1.000       71.06       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  16 D   14.79     2.4362E-06    118.2       59.19       118.2       59.19           V-C  3.1804E+04   336.0       14.77
1.000       1.000       73.96       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  17 D   15.37     2.3507E-06    120.0       60.09       120.0       60.09           V-C  3.1804E+04   335.8       16.78
1.000       1.000       76.87       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  18 D   15.95     2.2652E-06    121.8       60.98       121.8       60.98           V-C  3.1804E+04   335.6       18.79
1.000       1.000       79.77       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  19 D   16.53     2.1797E-06    123.6       61.87       123.6       61.87           V-C  3.1804E+04   335.4       20.80
1.000       1.000       82.67       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  20 D   17.11     2.0942E-06    125.4       62.77       125.4       62.77           V-C  3.1804E+04   335.2       22.81
1.000       1.000       85.57       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  21 D   19.27     3.3930E-07    127.2       71.53       127.2       71.53           V-C  1.4636E+05   335.0       24.82
1.000       1.000       96.34       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  22 D   19.89     3.2485E-07    129.2       72.65       129.2       72.65           V-C  1.4636E+05   334.8       26.83
```

```
1.000       1.000       99.47       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  23 D   20.52      3.1041E-07   131.2       73.76       131.2       73.76           V-C  1.4636E+05   334.6       28.83
1.000       1.000       102.6       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  24 D   21.14      2.9597E-07   133.2       74.88       133.2       74.88           V-C  1.4636E+05   334.4       30.84
1.000       1.000       105.7       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  25 D   21.77      2.8153E-07   135.2       76.00       135.2       76.00           V-C  1.4636E+05   334.2       32.85
1.000       1.000       108.9       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  26 D   22.40      2.6709E-07   137.1       77.11       137.1       77.11           V-C  1.4636E+05   334.0       34.86
1.000       1.000       112.0       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  27 D   23.02      2.5266E-07   139.1       78.23       139.1       78.23           V-C  1.4636E+05   333.8       36.87
1.000       1.000       115.1       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  28 D   23.65      2.3822E-07   141.1       79.35       141.1       79.35           V-C  1.4636E+05   333.6       38.88
1.000       1.000       118.2       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  29 D   24.27      2.2378E-07   143.1       80.46       143.1       80.46           V-C  1.4636E+05   333.4       40.89
1.000       1.000       121.4       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  30 D   24.90      2.0933E-07   145.1       81.58       145.1       81.58           V-C  1.4636E+05   333.2       42.90
1.000       1.000       124.5       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  31 D   25.52      1.9489E-07   147.1       82.70       147.1       82.70           V-C  1.4636E+05   333.0       44.91
1.000       1.000       127.6       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  32 D   26.15      1.8046E-07   149.1       83.81       149.1       83.81           V-C  1.4636E+05   332.8       46.92
1.000       1.000       130.7       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  33 D   26.77      1.6602E-07   151.1       84.93       151.1       84.93           V-C  1.4636E+05   332.6       48.93
1.000       1.000       133.9       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  34 D   27.40      1.5158E-07   153.1       86.05       153.1       86.05           V-C  1.4636E+05   332.4       50.94
1.000       1.000       137.0       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  35 D   28.02      1.3714E-07   155.1       87.17       155.1       87.17           V-C  1.4636E+05   332.2       52.95
1.000       1.000       140.1       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  36 D   28.65      1.2270E-07   157.1       88.28       157.1       88.28           V-C  1.4636E+05   332.0       54.95
1.000       1.000       143.2       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  37 D   29.27      1.0826E-07   159.0       89.40       159.0       89.40           V-C  1.4636E+05   331.8       56.96
1.000       1.000       146.4       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  38 D   29.90      9.3816E-08   161.0       90.52       161.0       90.52           V-C  1.4636E+05   331.6       58.97
1.000       1.000       149.5       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  39 D   30.52      7.9377E-08   163.0       91.63       163.0       91.63           V-C  1.4636E+05   331.4       60.98
1.000       1.000       152.6       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  40 D   31.15      6.4938E-08   165.0       92.75       165.0       92.75           V-C  1.4636E+05   331.2       62.99
1.000       1.000       155.7       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  41 D   29.70      1.1625E-07   167.0       83.51       167.0       83.51           V-C  7.4376E+04   331.0       65.00
1.000       1.000       148.5       0.000       0.000       40.00       40.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  42 D   30.35      1.1293E-07   169.5       84.76       169.5       84.76           V-C  7.4376E+04   330.8       67.00
1.000       1.000       151.8       0.000       0.000       40.00       40.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  43 D   31.00      1.0960E-07   172.0       86.01       172.0       86.01           V-C  7.4376E+04   330.6       69.00
1.000       1.000       155.0       0.000       0.000       40.00       40.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  44 D   31.65      1.0628E-07   174.5       87.26       174.5       87.26           V-C  7.4376E+04   330.4       71.00
1.000       1.000       158.3       0.000       0.000       40.00       40.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  45 D   32.30      1.0296E-07   177.0       88.51       177.0       88.51           V-C  7.4376E+04   330.2       73.01
1.000       1.000       161.5       0.000       0.000       40.00       40.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  46 D   32.95      9.9639E-08   179.5       89.76       179.5       89.76           V-C  7.4376E+04   330.0       75.01
1.000       1.000       164.8       0.000       0.000       40.00       40.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  47 D   33.60      9.6316E-08   182.0       91.01       182.0       91.01           V-C  7.4376E+04   329.8       77.01
1.000       1.000       168.0       0.000       0.000       40.00       40.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  48 D   34.25      9.2994E-08   184.5       92.26       184.5       92.26           V-C  7.4376E+04   329.6       79.01
1.000       1.000       171.3       0.000       0.000       40.00       40.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  49 D   34.90      8.9672E-08   187.0       93.51       187.0       93.51           V-C  7.4376E+04   329.4       81.01
1.000       1.000       174.5       0.000       0.000       40.00       40.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  50 D   35.55      8.6351E-08   189.5       94.76       189.5       94.76           V-C  7.4376E+04   329.2       83.01
1.000       1.000       177.8       0.000       0.000       40.00       40.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  51 D   36.20      8.3029E-08   192.0       96.01       192.0       96.01           V-C  7.4376E+04   329.0       85.01
1.000       1.000       181.0       0.000       0.000       40.00       40.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  52 D   36.85      7.9708E-08   194.5       97.26       194.5       97.26           V-C  7.4376E+04   328.8       87.01
1.000       1.000       184.3       0.000       0.000       40.00       40.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
```

53 D	37.50	7.6386E-08	197.0	98.51	197.0	98.51	V-C	7.4376E+04	328.6	89.01
1.000	1.000	187.5	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
54 D	38.15	7.3065E-08	199.5	99.75	199.5	99.75	V-C	7.4376E+04	328.4	91.01
1.000	1.000	190.8	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
55 D	38.80	6.9741E-08	202.0	101.0	202.0	101.0	V-C	7.4376E+04	328.2	93.02
1.000	1.000	194.0	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
56 D	39.45	6.6420E-08	204.5	102.3	204.5	102.3	V-C	7.4376E+04	328.0	95.02
1.000	1.000	197.3	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
57 D	40.10	6.3098E-08	207.0	103.5	207.0	103.5	V-C	7.4376E+04	327.8	97.02
1.000	1.000	200.5	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
58 D	40.75	5.9777E-08	209.5	104.8	209.5	104.8	V-C	7.4376E+04	327.6	99.02
1.000	1.000	203.8	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
59 D	41.40	5.6455E-08	212.0	106.0	212.0	106.0	V-C	7.4376E+04	327.4	101.0
1.000	1.000	207.0	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
60 D	42.05	5.3133E-08	214.5	107.3	214.5	107.3	V-C	7.4376E+04	327.2	103.0
1.000	1.000	210.3	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
61 D	42.70	4.9812E-08	217.0	108.5	217.0	108.5	V-C	7.4376E+04	327.0	105.0
1.000	1.000	213.5	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
62 D	43.35	4.6490E-08	219.5	109.7	219.5	109.7	V-C	7.4376E+04	326.8	107.0
1.000	1.000	216.8	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
63 D	44.00	4.3167E-08	222.0	111.0	222.0	111.0	V-C	7.4376E+04	326.6	109.0
1.000	1.000	220.0	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
64 D	44.65	3.9846E-08	224.5	112.2	224.5	112.2	V-C	7.4376E+04	326.4	111.0
1.000	1.000	223.3	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
65 D	45.31	3.6524E-08	227.0	113.5	227.0	113.5	V-C	7.4376E+04	326.2	113.0
1.000	1.000	226.5	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
66 D	45.96	3.3202E-08	229.5	114.7	229.5	114.7	V-C	7.4376E+04	326.0	115.0
1.000	1.000	229.8	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
67 D	46.61	2.9881E-08	232.0	116.0	232.0	116.0	V-C	7.4376E+04	325.8	117.0
1.000	1.000	233.0	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
68 D	47.26	2.6559E-08	234.5	117.2	234.5	117.2	V-C	7.4376E+04	325.6	119.0
1.000	1.000	236.3	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
69 D	47.91	2.3238E-08	237.0	118.5	237.0	118.5	V-C	7.4376E+04	325.4	121.0
1.000	1.000	239.5	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
70 D	48.56	1.9916E-08	239.5	119.7	239.5	119.7	V-C	7.4376E+04	325.2	123.0
1.000	1.000	242.8	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
71 D	49.21	1.6593E-08	242.0	121.0	242.0	121.0	V-C	7.4376E+04	325.0	125.0
1.000	1.000	246.0	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
72 D	49.86	1.3271E-08	244.5	122.2	244.5	122.2	V-C	7.4376E+04	324.8	127.0
1.000	1.000	249.3	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
73 D	50.51	9.9498E-09	247.0	123.5	247.0	123.5	V-C	7.4376E+04	324.6	129.0
1.000	1.000	252.5	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
74 D	51.16	6.6282E-09	249.5	124.7	249.5	124.7	V-C	7.4376E+04	324.4	131.0
1.000	1.000	255.8	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
75 D	51.81	3.3066E-09	252.0	126.0	252.0	126.0	V-C	7.4376E+04	324.2	133.0
1.000	1.000	259.0	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
76 D	26.23	1.0036E-18	254.5	127.2	254.5	127.2	V-C	7.4376E+04	324.0	135.0
1.000	1.000	262.3	0.000	0.000	0.000	0.000	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						

```
+-----------------------------------------------------------------------------------------------------------------------+
|                  PARATIEPLUS(TM)   NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*             |
|                                                                                                                       |
|                                              ParatiePlus                                                              |
|                                    Exe Time :28 January 2022   16:22:52                                               |
+-----------------------------------------------------------------------------------------------------------------------+
New Project


S T R E S S   R E S U L T S   F O R   G R O U P   N O.   2

0_R                                                    :
ELEMENT TYPE    5 NO.OF ELEMENTS. IN THIS GROUP   76
C U R R E N T   T I M E   I S      1.0000 SUBINCREMENT 00001/00001

 HARDENING 2D SOIL ELEMENT

 ****** TOTAL STRESS FORMULATION *****

  EL *   FORCE     DISPL-Y  VERTICAL-P  HORIZON.-P     MAX-V-P     MAX-H-P          STATE   STIFFNESS Z-LEVEL      PORE       E FAC-
TOR    UFACTOR       Peq          Su_a        Su_p        Cohe_a      Cohe_p     LAYER                              ZFO         QS
QSL         ZD          ZPL          Kz
 ------------------------------------------------------------------------------------------------------------------------------
-----------------------------------------------------------------------------------------------------------------------------
-----------------------------------------------
   1 D   3.800       0.000       76.00       38.00       76.00       38.00           V-C  2.5154E+04   339.0       0.000
1.000       1.000       38.00       0.000       0.000       0.000       0.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   2 D   7.980       0.000       79.80       39.90       79.80       39.90           V-C  2.5154E+04   338.8       0.000
1.000       1.000       39.90       0.000       0.000       0.000       0.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   3 D   8.360       0.000       83.60       41.80       83.60       41.80           V-C  2.5154E+04   338.6       0.000
1.000       1.000       41.80       0.000       0.000       0.000       0.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   4 D   8.740       0.000       87.40       43.70       87.40       43.70           V-C  2.5154E+04   338.4       0.000
1.000       1.000       43.70       0.000       0.000       0.000       0.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   5 D   9.120       0.000       91.20       45.60       91.20       45.60           V-C  2.5154E+04   338.2       0.000
1.000       1.000       45.60       0.000       0.000       0.000       0.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   6 D   9.500       0.000       95.00       47.50       95.00       47.50           V-C  2.5154E+04   338.0       0.000
1.000       1.000       47.50       0.000       0.000       0.000       0.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   7 D   9.880       0.000       98.80       49.40       98.80       49.40           V-C  2.5154E+04   337.8       0.000
1.000       1.000       49.40       0.000       0.000       0.000       0.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   8 D   10.26       0.000       102.6       51.30       102.6       51.30           V-C  2.5154E+04   337.6       0.000
1.000       1.000       51.30       0.000       0.000       0.000       0.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   9 D   10.73     -3.0346E-06   105.0       52.29       105.0       52.52          UL-RL  7.5461E+04   337.4       1.355
1.000       1.000       53.65       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  10 D   11.31     -2.9491E-06   106.9       53.21       106.9       53.43          UL-RL  7.5461E+04   337.2       3.346
1.000       1.000       56.55       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  11 D   11.89     -2.8636E-06   108.7       54.12       108.7       54.33          UL-RL  7.5461E+04   337.0       5.337
1.000       1.000       59.45       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  12 D   12.47     -2.7781E-06   110.5       55.03       110.5       55.24          UL-RL  7.5461E+04   336.8       7.328
1.000       1.000       62.36       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  13 D   13.05     -2.6927E-06   112.3       55.94       112.3       56.14          UL-RL  7.5461E+04   336.6       9.319
1.000       1.000       65.26       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  14 D   13.63     -2.6071E-06   114.1       56.85       114.1       57.05          UL-RL  7.5461E+04   336.4       11.31
1.000       1.000       68.16       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  15 D   14.21     -2.5216E-06   115.9       57.76       115.9       57.95          UL-RL  7.5461E+04   336.2       13.30
1.000       1.000       71.06       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  16 D   14.79     -2.4362E-06   117.7       58.67       117.7       58.86          UL-RL  7.5461E+04   336.0       15.29
1.000       1.000       73.96       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  17 D   15.37     -2.3507E-06   119.5       59.58       119.5       59.76          UL-RL  7.5461E+04   335.8       17.28
1.000       1.000       76.87       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  18 D   15.95     -2.2652E-06   121.3       60.49       121.3       60.67          UL-RL  7.5461E+04   335.6       19.27
1.000       1.000       79.77       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  19 D   16.53     -2.1797E-06   123.1       61.41       123.1       61.57          UL-RL  7.5461E+04   335.4       21.26
1.000       1.000       82.67       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  20 D   17.11     -2.0942E-06   124.9       62.32       124.9       62.47          UL-RL  7.5461E+04   335.2       23.26
1.000       1.000       85.57       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  21 D   19.27     -3.3930E-07   126.8       71.10       126.8       71.24          UL-RL  4.0994E+05   335.0       25.25
1.000       1.000       96.34       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  22 D   19.89     -3.2485E-07   128.8       72.23       128.8       72.37          UL-RL  4.0994E+05   334.8       27.24
```

```
1.000       1.000       99.47       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  23 D   20.52     -3.1041E-07   130.8       73.37       130.8       73.50          UL-RL  4.0994E+05   334.6       29.23
1.000       1.000       102.6       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  24 D   21.14     -2.9597E-07   132.8       74.50       132.8       74.63          UL-RL  4.0994E+05   334.4       31.22
1.000       1.000       105.7       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  25 D   21.77     -2.8153E-07   134.8       75.64       134.8       75.76          UL-RL  4.0994E+05   334.2       33.21
1.000       1.000       108.9       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  26 D   22.40     -2.6709E-07   136.8       76.77       136.8       76.88          UL-RL  4.0994E+05   334.0       35.20
1.000       1.000       112.0       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  27 D   23.02     -2.5266E-07   138.8       77.91       138.8       78.01          UL-RL  4.0994E+05   333.8       37.19
1.000       1.000       115.1       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  28 D   23.65     -2.3822E-07   140.8       79.04       140.8       79.14          UL-RL  4.0994E+05   333.6       39.18
1.000       1.000       118.2       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  29 D   24.27     -2.2378E-07   142.8       80.18       142.8       80.27          UL-RL  4.0994E+05   333.4       41.17
1.000       1.000       121.4       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  30 D   24.90     -2.0933E-07   144.8       81.32       144.8       81.40          UL-RL  4.0994E+05   333.2       43.17
1.000       1.000       124.5       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  31 D   25.52     -1.9489E-07   146.9       82.45       146.9       82.53          UL-RL  4.0994E+05   333.0       45.16
1.000       1.000       127.6       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  32 D   26.15     -1.8046E-07   148.9       83.59       148.9       83.66          UL-RL  4.0994E+05   332.8       47.15
1.000       1.000       130.7       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  33 D   26.77     -1.6602E-07   150.9       84.72       150.9       84.79          UL-RL  4.0994E+05   332.6       49.14
1.000       1.000       133.9       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  34 D   27.40     -1.5158E-07   152.9       85.86       152.9       85.92          UL-RL  4.0994E+05   332.4       51.13
1.000       1.000       137.0       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  35 D   28.02     -1.3714E-07   154.9       86.99       154.9       87.05          UL-RL  4.0994E+05   332.2       53.12
1.000       1.000       140.1       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  36 D   28.65     -1.2270E-07   156.9       88.13       156.9       88.18          UL-RL  4.0994E+05   332.0       55.11
1.000       1.000       143.2       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  37 D   29.27     -1.0826E-07   158.9       89.26       158.9       89.31          UL-RL  4.0994E+05   331.8       57.10
1.000       1.000       146.4       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  38 D   29.90     -9.3816E-08   160.9       90.40       160.9       90.44          UL-RL  4.0994E+05   331.6       59.09
1.000       1.000       149.5       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  39 D   30.52     -7.9377E-08   162.9       91.53       162.9       91.56          UL-RL  4.0994E+05   331.4       61.08
1.000       1.000       152.6       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  40 D   31.15     -6.4938E-08   164.9       92.67       164.9       92.69          UL-RL  4.0994E+05   331.2       63.07
1.000       1.000       155.7       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  41 D   29.70     -1.1625E-07   166.9       83.45       166.9       83.47          UL-RL  2.0168E+05   331.0       65.07
1.000       1.000       148.5       0.000       0.000       40.00       40.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  42 D   30.35     -1.1293E-07   169.4       84.70       169.4       84.72          UL-RL  2.0168E+05   330.8       67.06
1.000       1.000       151.8       0.000       0.000       40.00       40.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  43 D   31.00     -1.0960E-07   171.9       85.95       171.9       85.97          UL-RL  2.0168E+05   330.6       69.06
1.000       1.000       155.0       0.000       0.000       40.00       40.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  44 D   31.65     -1.0628E-07   174.4       87.20       174.4       87.22          UL-RL  2.0168E+05   330.4       71.06
1.000       1.000       158.3       0.000       0.000       40.00       40.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  45 D   32.30     -1.0296E-07   176.9       88.45       176.9       88.47          UL-RL  2.0168E+05   330.2       73.06
1.000       1.000       161.5       0.000       0.000       40.00       40.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  46 D   32.95     -9.9639E-08   179.5       89.70       179.5       89.73          UL-RL  2.0168E+05   330.0       75.06
1.000       1.000       164.8       0.000       0.000       40.00       40.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  47 D   33.60     -9.6316E-08   182.0       90.96       182.0       90.98          UL-RL  2.0168E+05   329.8       77.06
1.000       1.000       168.0       0.000       0.000       40.00       40.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  48 D   34.25     -9.2994E-08   184.5       92.21       184.5       92.23          UL-RL  2.0168E+05   329.6       79.06
1.000       1.000       171.3       0.000       0.000       40.00       40.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  49 D   34.90     -8.9672E-08   187.0       93.46       187.0       93.48          UL-RL  2.0168E+05   329.4       81.06
1.000       1.000       174.5       0.000       0.000       40.00       40.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  50 D   35.55     -8.6351E-08   189.5       94.71       189.5       94.73          UL-RL  2.0168E+05   329.2       83.06
1.000       1.000       177.8       0.000       0.000       40.00       40.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  51 D   36.20     -8.3029E-08   192.0       95.96       192.0       95.98          UL-RL  2.0168E+05   329.0       85.06
1.000       1.000       181.0       0.000       0.000       40.00       40.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  52 D   36.85     -7.9708E-08   194.5       97.21       194.5       97.23          UL-RL  2.0168E+05   328.8       87.06
1.000       1.000       184.3       0.000       0.000       40.00       40.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
```

53 D	37.50	-7.6386E-08	197.0	98.46	197.0	98.48	UL-RL	2.0168E+05	328.6	89.06
1.000	1.000	187.5	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
54 D	38.15	-7.3065E-08	199.5	99.71	199.5	99.73	UL-RL	2.0168E+05	328.4	91.05
1.000	1.000	190.8	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
55 D	38.80	-6.9741E-08	202.0	101.0	202.0	101.0	UL-RL	2.0168E+05	328.2	93.05
1.000	1.000	194.0	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
56 D	39.45	-6.6420E-08	204.5	102.2	204.5	102.2	UL-RL	2.0168E+05	328.0	95.05
1.000	1.000	197.3	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
57 D	40.10	-6.3098E-08	207.0	103.5	207.0	103.5	UL-RL	2.0168E+05	327.8	97.05
1.000	1.000	200.5	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
58 D	40.75	-5.9777E-08	209.5	104.7	209.5	104.7	UL-RL	2.0168E+05	327.6	99.05
1.000	1.000	203.8	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
59 D	41.40	-5.6455E-08	212.0	106.0	212.0	106.0	UL-RL	2.0168E+05	327.4	101.1
1.000	1.000	207.0	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
60 D	42.05	-5.3133E-08	214.5	107.2	214.5	107.2	UL-RL	2.0168E+05	327.2	103.1
1.000	1.000	210.3	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
61 D	42.70	-4.9812E-08	217.0	108.5	217.0	108.5	UL-RL	2.0168E+05	327.0	105.0
1.000	1.000	213.5	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
62 D	43.35	-4.6490E-08	219.5	109.7	219.5	109.7	UL-RL	2.0168E+05	326.8	107.0
1.000	1.000	216.8	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
63 D	44.00	-4.3167E-08	222.0	111.0	222.0	111.0	UL-RL	2.0168E+05	326.6	109.0
1.000	1.000	220.0	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
64 D	44.65	-3.9846E-08	224.5	112.2	224.5	112.2	UL-RL	2.0168E+05	326.4	111.0
1.000	1.000	223.3	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
65 D	45.31	-3.6524E-08	227.0	113.5	227.0	113.5	UL-RL	2.0168E+05	326.2	113.0
1.000	1.000	226.5	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
66 D	45.96	-3.3202E-08	229.5	114.7	229.5	114.7	UL-RL	2.0168E+05	326.0	115.0
1.000	1.000	229.8	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
67 D	46.61	-2.9881E-08	232.0	116.0	232.0	116.0	UL-RL	2.0168E+05	325.8	117.0
1.000	1.000	233.0	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
68 D	47.26	-2.6559E-08	234.5	117.2	234.5	117.2	UL-RL	2.0168E+05	325.6	119.0
1.000	1.000	236.3	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
69 D	47.91	-2.3238E-08	237.0	118.5	237.0	118.5	UL-RL	2.0168E+05	325.4	121.0
1.000	1.000	239.5	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
70 D	48.56	-1.9916E-08	239.5	119.7	239.5	119.7	UL-RL	2.0168E+05	325.2	123.0
1.000	1.000	242.8	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
71 D	49.21	-1.6593E-08	242.0	121.0	242.0	121.0	UL-RL	2.0168E+05	325.0	125.0
1.000	1.000	246.0	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
72 D	49.86	-1.3271E-08	244.5	122.2	244.5	122.2	UL-RL	2.0168E+05	324.8	127.0
1.000	1.000	249.3	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
73 D	50.51	-9.9498E-09	247.0	123.5	247.0	123.5	UL-RL	2.0168E+05	324.6	129.0
1.000	1.000	252.5	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
74 D	51.16	-6.6282E-09	249.5	124.7	249.5	124.7	UL-RL	2.0168E+05	324.4	131.0
1.000	1.000	255.8	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
75 D	51.81	-3.3066E-09	252.0	126.0	252.0	126.0	UL-RL	2.0168E+05	324.2	133.0
1.000	1.000	259.0	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
76 D	26.23	-1.0036E-18	254.5	127.2	254.5	127.2	V-C	6.7226E+04	324.0	135.0
1.000	1.000	262.3	0.000	0.000	0.000	0.000	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						

```
+-----------------------------------------------------------------------------------------------------------------------+
|                   PARATIEPLUS(TM)   NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*             |
|                                                                                                                       |
|                                                ParatiePlus                                                            |
|                                  Exe Time :28 January 2022   16:22:52                                                 |
+-----------------------------------------------------------------------------------------------------------------------+
New Project


S T R E S S   R E S U L T S   F O R   G R O U P   N O.   3

Pali1500_253215                                              :
ELEMENT TYPE    2 NO.OF ELEMENTS. IN THIS GROUP   75
C U R R E N T   T I M E   I S      1.0000 SUBINCREMENT 00001/00001

 WALL2D ELEMENT

   EL      TA          TB          MA          MB
-------------------------------------------------

***** NO ONE ELEMENT ACTIVE AT CURRENT STEP *****

ITER     0 RNORM = 0.000     RMNORM= 0.000
           RINORM=0.1166E+06 RIMNOR= 0.000
           RENORM=0.1892E-01 REMNOR= 0.000     RATIO =0.4029E-03 TOLER =0.1000E-03  NOT CONVERGED
           RFMAX = 47.65     RMMAX = 0.000
           RTSMAL=0.1000E-03 RMSMAL= 0.000
           RDT   =0.1166E+06 RDR   = 0.000
           RATIOT=0.4029E-03 RATIOR= 0.000
           MAX UN=0.4135E-01 IEQ=    17 NODE      9 DOF   1  Y-DISPL.F
           MIN UN= 0.000     IEQ=     1 NODE      1 DOF   1  Y-DISPL.F
           NO. OF CONTACT CONSTRAINT VIOLATIONS     0


ITER     2 RNORM = 0.000     RMNORM= 0.000
           RINORM=0.1166E+06 RIMNOR= 0.000
           RENORM=0.4955E-22 REMNOR=0.3750E-24 RATIO =0.2062E-13 TOLER =0.1000E-03      CONVERGED !
           RFMAX = 47.65     RMMAX = 0.000
           RTSMAL=0.1000E-03 RMSMAL= 0.000
           RDT   =0.1166E+06 RDR   = 0.000
           RATIOT=0.2062E-13 RATIOR= 0.000
           MAX UN=0.3016E-11 IEQ=    23 NODE     12 DOF   1  Y-DISPL.F
           MIN UN=-.2989E-11 IEQ=    19 NODE     10 DOF   1  Y-DISPL.F
           NO. OF CONTACT CONSTRAINT VIOLATIONS     0
```

```
+-----------------------------------------------------------------------------------------------------------------------+
|                  PARATIEPLUS(TM)   NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*             |
|                                                                                                                       |
|                                                ParatiePlus                                                            |
|                                  Exe Time :28 January 2022   16:22:52                                                 |
+-----------------------------------------------------------------------------------------------------------------------+
New Project
SOLUTION REACHED USING     2 ITERATIONS ON   80

P R I N T   O U T   F O R   T I M E   S T E P   2     ( AT TIME   2.000     ) SUBINCREMENT 00001/00001

PRINT OUT OF ACTIVE COMPONENTS (FIXED NODES ARE NOT PRINTED OUT)

          Y-DISPL.F        X-ROT. F
            02               04
    1   4.6619220E-07  -1.7013805E-08
    2   4.6278819E-07  -1.7032482E-08
    3   4.5937112E-07  -1.7172482E-08
    4   4.5589996E-07  -1.7601122E-08
    5   4.5230036E-07  -1.8484468E-08
    6   4.4846287E-07  -1.9988230E-08
    7   4.4425102E-07  -2.2274341E-08
    8   4.3949014E-07  -2.5505349E-08
    9  -2.6006123E-06  -2.9841602E-08
   10  -2.5216211E-06  -3.5222041E-08
   11  -2.4437874E-06  -4.1372135E-08
   12  -2.3672388E-06  -4.8030911E-08
   13  -2.2920520E-06  -5.4949827E-08
   14  -2.2182186E-06  -6.1895170E-08
   15  -2.1457941E-06  -6.8633235E-08
   16  -2.0746787E-06  -7.4950236E-08
   17  -2.0047672E-06  -8.0637538E-08
   18  -1.9359133E-06  -8.5494389E-08
   19  -1.8679316E-06  -8.9327248E-08
   20  -1.8005984E-06  -9.1949212E-08
   21  -6.4194597E-08  -9.3179540E-08
   22  -6.8401399E-08  -9.3047047E-08
   23  -7.2462265E-08  -9.1777148E-08
   24  -7.6172582E-08  -8.9573690E-08
   25  -7.9364213E-08  -8.6618897E-08
   26  -8.1903379E-08  -8.3074271E-08
   27  -8.3686608E-08  -7.9081537E-08
   28  -8.4636889E-08  -7.4763811E-08
   29  -8.4700085E-08  -7.0226955E-08
   30  -8.3840965E-08  -6.5558692E-08
   31  -8.2042380E-08  -6.0839550E-08
   32  -7.9300018E-08  -5.6130486E-08
   33  -7.5621295E-08  -5.1483825E-08
   34  -7.1023138E-08  -4.6942603E-08
   35  -6.5530286E-08  -4.2542205E-08
   36  -5.9173925E-08  -3.8311965E-08
   37  -5.1990633E-08  -3.4276728E-08
   38  -4.4017460E-08  -3.0456494E-08
   39  -3.5307810E-08  -2.6875378E-08
   40  -2.5907322E-08  -2.3551508E-08
   41  -8.1616704E-08  -2.0506059E-08
   42  -8.2115645E-08  -1.7745896E-08
   43  -8.2090315E-08  -1.5261577E-08
   44  -8.1594762E-08  -1.3041591E-08
   45  -8.0680561E-08  -1.1072804E-08
   46  -7.9396536E-08  -9.3408582E-09
   47  -7.7787664E-08  -7.8298204E-09
   48  -7.5898322E-08  -6.5254112E-09
   49  -7.3767341E-08  -5.4107433E-09
   50  -7.1431056E-08  -4.4696843E-09
   51  -6.8922586E-08  -3.6862490E-09
   52  -6.6271883E-08  -3.0447683E-09
   53  -6.3505806E-08  -2.5300310E-09
   54  -6.0648232E-08  -2.1273990E-09
   55  -5.7718693E-08  -1.8227711E-09
   56  -5.4738416E-08  -1.6032196E-09
   57  -5.1721675E-08  -1.4561313E-09
   58  -4.8681789E-08  -1.3699026E-09
   59  -4.5629840E-08  -1.3337911E-09
   60  -4.2574852E-08  -1.3379313E-09
   61  -3.9523961E-08  -1.3733421E-09
   62  -3.6482597E-08  -1.4319260E-09
   63  -3.3453148E-08  -1.5065039E-09
   64  -3.0441184E-08  -1.5906500E-09
   65  -2.7446545E-08  -1.6789020E-09
   66  -2.4469571E-08  -1.7666041E-09
   67  -2.1509757E-08  -1.8499252E-09
   68  -1.8565911E-08  -1.9258438E-09
   69  -1.5636316E-08  -1.9921334E-09
   70  -1.2718889E-08  -2.0473497E-09
   71  -9.8098842E-09  -2.0908373E-09
   72  -6.9098540E-09  -2.1226397E-09
   73  -4.0150820E-09  -2.1436226E-09
   74  -1.1235509E-09  -2.1553751E-09
```

```
75   1.7663645E-09  -2.1602315E-09
76   4.6427460E-09  -2.1612692E-09
```

```
+-----------------------------------------------------------------------------------------------------------------------+
|                  PARATIEPLUS(TM)   NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*             |
|                                                                                                                       |
|                                            ParatiePlus                                                                |
|                                  Exe Time :28 January 2022   16:22:52                                                 |
+-----------------------------------------------------------------------------------------------------------------------+
New Project


S T R E S S   R E S U L T S   F O R   G R O U P   N O.   1

0_L                                                    :
ELEMENT TYPE    5 NO.OF ELEMENTS. IN THIS GROUP   76
C U R R E N T   T I M E   I S      2.0000 SUBINCREMENT 00001/00001

 HARDENING 2D SOIL ELEMENT

 ****** TOTAL STRESS FORMULATION *****

  EL *   FORCE      DISPL-Y  VERTICAL-P  HORIZON.-P     MAX-V-P     MAX-H-P          STATE   STIFFNESS Z-LEVEL      PORE       E FAC-
TOR    UFACTOR       Peq          Su_a        Su_p        Cohe_a      Cohe_p     LAYER                              ZFO         QS
QSL          ZD          ZPL          Kz
 ------------------------------------------------------------------------------------------------------------------------------------
------------------------------------------------------------------------------------------------------------------------------------
-----------------------------------------------
   1 D   0.000     -4.6619E-07   0.000       0.000       76.00       38.00          ACTIVE   0.000       339.0       0.000
1.000       1.000       0.000       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   2 D   1.733     -4.6279E-07   3.800       8.663       79.80       39.90          UL-RL  9.5413E+04   338.8       0.000
1.000       1.000       8.663       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   3 D   2.512     -4.5937E-07   7.600       12.56       83.60       41.80          UL-RL  9.5413E+04   338.6       0.000
1.000       1.000       12.56       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   4 D   3.148     -4.5590E-07   11.40       15.74       87.40       43.70          UL-RL  9.5413E+04   338.4       0.000
1.000       1.000       15.74       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   5 D   3.715     -4.5230E-07   15.20       18.57       91.20       45.60          UL-RL  9.5413E+04   338.2       0.000
1.000       1.000       18.57       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   6 D   4.240     -4.4846E-07   19.00       21.20       95.00       47.50          UL-RL  9.5413E+04   338.0       0.000
1.000       1.000       21.20       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   7 D   4.738     -4.4425E-07   22.80       23.69       98.80       49.40          UL-RL  9.5413E+04   337.8       0.000
1.000       1.000       23.69       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   8 D   5.216     -4.3949E-07   26.60       26.08       102.6       51.30          UL-RL  9.5413E+04   337.6       0.000
1.000       1.000       26.08       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   9 D   5.754      2.6006E-06   29.70       28.07       105.7       52.95          UL-RL  9.5413E+04   337.4       0.7029
1.000       1.000       28.77       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  10 D   6.371      2.5216E-06   31.49       29.14       107.5       53.84          UL-RL  9.5413E+04   337.2       2.708
1.000       1.000       31.85       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  11 D   6.984      2.4438E-06   33.29       30.21       109.3       54.73          UL-RL  9.5413E+04   337.0       4.714
1.000       1.000       34.92       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  12 D   7.596      2.3672E-06   35.08       31.26       111.1       55.62          UL-RL  9.5413E+04   336.8       6.719
1.000       1.000       37.98       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  13 D   8.206      2.2921E-06   36.88       32.30       112.9       56.52          UL-RL  9.5413E+04   336.6       8.725
1.000       1.000       41.03       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  14 D   8.814      2.2182E-06   38.67       33.34       114.7       57.41          UL-RL  9.5413E+04   336.4       10.73
1.000       1.000       44.07       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  15 D   9.421      2.1458E-06   40.47       34.37       116.4       58.30          UL-RL  9.5413E+04   336.2       12.74
1.000       1.000       47.10       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  16 D   10.03      2.0747E-06   42.26       35.39       118.2       59.19          UL-RL  9.5413E+04   336.0       14.74
1.000       1.000       50.13       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  17 D   10.63      2.0048E-06   44.06       36.40       120.0       60.09          UL-RL  9.5413E+04   335.8       16.75
1.000       1.000       53.15       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  18 D   11.23      1.9359E-06   45.85       37.41       121.8       60.98          UL-RL  9.5413E+04   335.6       18.75
1.000       1.000       56.16       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  19 D   11.83      1.8679E-06   47.65       38.41       123.6       61.87          UL-RL  9.5413E+04   335.4       20.76
1.000       1.000       59.17       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  20 D   12.43      1.8006E-06   49.44       39.41       125.4       62.77          UL-RL  9.5413E+04   335.2       22.76
1.000       1.000       62.17       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  21 D   14.01      6.4195E-08   51.23       45.30       127.2       71.53          UL-RL  4.3908E+05   335.0       24.77
1.000       1.000       70.07       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  22 D   14.66      6.8401E-08   53.23       46.54       129.2       72.65          UL-RL  4.3908E+05   334.8       26.78
```

1.000	1.000	73.31	0.000	0.000	8.000	8.000	Salt_1270_202756_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
23 D	15.31	7.2462E-08	55.22	47.77	131.2	73.76	UL-RL	4.3908E+05	334.6	28.78	
1.000	1.000	76.55	0.000	0.000	8.000	8.000	Salt_1270_202756_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
24 D	15.96	7.6173E-08	57.22	49.00	133.2	74.88	UL-RL	4.3908E+05	334.4	30.79	
1.000	1.000	79.79	0.000	0.000	8.000	8.000	Salt_1270_202756_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
25 D	16.60	7.9364E-08	59.21	50.23	135.2	76.00	UL-RL	4.3908E+05	334.2	32.79	
1.000	1.000	83.02	0.000	0.000	8.000	8.000	Salt_1270_202756_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
26 D	17.25	8.1903E-08	61.21	51.45	137.1	77.11	UL-RL	4.3908E+05	334.0	34.80	
1.000	1.000	86.25	0.000	0.000	8.000	8.000	Salt_1270_202756_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
27 D	17.89	8.3687E-08	63.20	52.66	139.1	78.23	UL-RL	4.3908E+05	333.8	36.80	
1.000	1.000	89.47	0.000	0.000	8.000	8.000	Salt_1270_202756_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
28 D	18.54	8.4637E-08	65.20	53.88	141.1	79.35	UL-RL	4.3908E+05	333.6	38.81	
1.000	1.000	92.68	0.000	0.000	8.000	8.000	Salt_1270_202756_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
29 D	19.18	8.4700E-08	67.19	55.08	143.1	80.46	UL-RL	4.3908E+05	333.4	40.81	
1.000	1.000	95.90	0.000	0.000	8.000	8.000	Salt_1270_202756_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
30 D	19.82	8.3841E-08	69.19	56.29	145.1	81.58	UL-RL	4.3908E+05	333.2	42.82	
1.000	1.000	99.11	0.000	0.000	8.000	8.000	Salt_1270_202756_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
31 D	20.46	8.2042E-08	71.18	57.49	147.1	82.70	UL-RL	4.3908E+05	333.0	44.83	
1.000	1.000	102.3	0.000	0.000	8.000	8.000	Salt_1270_202756_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
32 D	21.10	7.9300E-08	73.18	58.68	149.1	83.81	UL-RL	4.3908E+05	332.8	46.83	
1.000	1.000	105.5	0.000	0.000	8.000	8.000	Salt_1270_202756_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
33 D	21.74	7.5621E-08	75.17	59.88	151.1	84.93	UL-RL	4.3908E+05	332.6	48.84	
1.000	1.000	108.7	0.000	0.000	8.000	8.000	Salt_1270_202756_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
34 D	22.38	7.1023E-08	77.17	61.07	153.1	86.05	UL-RL	4.3908E+05	332.4	50.84	
1.000	1.000	111.9	0.000	0.000	8.000	8.000	Salt_1270_202756_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
35 D	23.02	6.5530E-08	79.16	62.25	155.1	87.17	UL-RL	4.3908E+05	332.2	52.85	
1.000	1.000	115.1	0.000	0.000	8.000	8.000	Salt_1270_202756_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
36 D	23.66	5.9174E-08	81.15	63.44	157.1	88.28	UL-RL	4.3908E+05	332.0	54.85	
1.000	1.000	118.3	0.000	0.000	8.000	8.000	Salt_1270_202756_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
37 D	24.30	5.1991E-08	83.15	64.62	159.0	89.40	UL-RL	4.3908E+05	331.8	56.86	
1.000	1.000	121.5	0.000	0.000	8.000	8.000	Salt_1270_202756_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
38 D	24.93	4.4017E-08	85.14	65.80	161.0	90.52	UL-RL	4.3908E+05	331.6	58.87	
1.000	1.000	124.7	0.000	0.000	8.000	8.000	Salt_1270_202756_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
39 D	25.57	3.5308E-08	87.14	66.98	163.0	91.63	UL-RL	4.3908E+05	331.4	60.87	
1.000	1.000	127.8	0.000	0.000	8.000	8.000	Salt_1270_202756_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
40 D	26.21	2.5907E-08	89.13	68.15	165.0	92.75	UL-RL	4.3908E+05	331.2	62.88	
1.000	1.000	131.0	0.000	0.000	8.000	8.000	Salt_1270_202756_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
41 D	25.31	8.1617E-08	91.13	61.68	167.0	83.51	UL-RL	2.2313E+05	331.0	64.88	
1.000	1.000	126.6	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
42 D	25.97	8.2116E-08	93.63	62.99	169.5	84.76	UL-RL	2.2313E+05	330.8	66.88	
1.000	1.000	129.9	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
43 D	26.64	8.2090E-08	96.13	64.30	172.0	86.01	UL-RL	2.2313E+05	330.6	68.88	
1.000	1.000	133.2	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
44 D	27.30	8.1595E-08	98.63	65.60	174.5	87.26	UL-RL	2.2313E+05	330.4	70.88	
1.000	1.000	136.5	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
45 D	27.96	8.0681E-08	101.1	66.90	177.0	88.51	UL-RL	2.2313E+05	330.2	72.88	
1.000	1.000	139.8	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
46 D	28.62	7.9397E-08	103.6	68.20	179.5	89.76	UL-RL	2.2313E+05	330.0	74.88	
1.000	1.000	143.1	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
47 D	29.28	7.7788E-08	106.1	69.49	182.0	91.01	UL-RL	2.2313E+05	329.8	76.89	
1.000	1.000	146.4	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
48 D	29.93	7.5898E-08	108.6	70.79	184.5	92.26	UL-RL	2.2313E+05	329.6	78.89	
1.000	1.000	149.7	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
49 D	30.59	7.3767E-08	111.1	72.08	187.0	93.51	UL-RL	2.2313E+05	329.4	80.89	
1.000	1.000	153.0	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
50 D	31.25	7.1431E-08	113.6	73.37	189.5	94.76	UL-RL	2.2313E+05	329.2	82.89	
1.000	1.000	156.3	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
51 D	31.91	6.8923E-08	116.1	74.66	192.0	96.01	UL-RL	2.2313E+05	329.0	84.89	
1.000	1.000	159.6	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
52 D	32.57	6.6272E-08	118.6	75.95	194.5	97.26	UL-RL	2.2313E+05	328.8	86.89	
1.000	1.000	162.8	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							

53 D	33.23	6.3506E-08	121.1	77.24	197.0	98.51	UL-RL	2.2313E+05	328.6	88.89
1.000	1.000	166.1	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
54 D	33.88	6.0648E-08	123.6	78.52	199.5	99.75	UL-RL	2.2313E+05	328.4	90.89
1.000	1.000	169.4	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
55 D	34.54	5.7719E-08	126.1	79.81	202.0	101.0	UL-RL	2.2313E+05	328.2	92.89
1.000	1.000	172.7	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
56 D	35.20	5.4738E-08	128.6	81.09	204.5	102.3	UL-RL	2.2313E+05	328.0	94.89
1.000	1.000	176.0	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
57 D	35.85	5.1722E-08	131.1	82.38	207.0	103.5	UL-RL	2.2313E+05	327.8	96.89
1.000	1.000	179.3	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
58 D	36.51	4.8682E-08	133.6	83.66	209.5	104.8	UL-RL	2.2313E+05	327.6	98.89
1.000	1.000	182.6	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
59 D	37.17	4.5630E-08	136.1	84.94	212.0	106.0	UL-RL	2.2313E+05	327.4	100.9
1.000	1.000	185.8	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
60 D	37.82	4.2575E-08	138.6	86.22	214.5	107.3	UL-RL	2.2313E+05	327.2	102.9
1.000	1.000	189.1	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
61 D	38.48	3.9524E-08	141.1	87.50	217.0	108.5	UL-RL	2.2313E+05	327.0	104.9
1.000	1.000	192.4	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
62 D	39.13	3.6483E-08	143.6	88.78	219.5	109.7	UL-RL	2.2313E+05	326.8	106.9
1.000	1.000	195.7	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
63 D	39.79	3.3453E-08	146.1	90.05	222.0	111.0	UL-RL	2.2313E+05	326.6	108.9
1.000	1.000	199.0	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
64 D	40.45	3.0441E-08	148.6	91.33	224.5	112.2	UL-RL	2.2313E+05	326.4	110.9
1.000	1.000	202.2	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
65 D	41.10	2.7447E-08	151.1	92.61	227.0	113.5	UL-RL	2.2313E+05	326.2	112.9
1.000	1.000	205.5	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
66 D	41.76	2.4470E-08	153.6	93.88	229.5	114.7	UL-RL	2.2313E+05	326.0	114.9
1.000	1.000	208.8	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
67 D	42.41	2.1510E-08	156.1	95.16	232.0	116.0	UL-RL	2.2313E+05	325.8	116.9
1.000	1.000	212.1	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
68 D	43.07	1.8566E-08	158.6	96.43	234.5	117.2	UL-RL	2.2313E+05	325.6	118.9
1.000	1.000	215.3	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
69 D	43.72	1.5636E-08	161.1	97.70	237.0	118.5	UL-RL	2.2313E+05	325.4	120.9
1.000	1.000	218.6	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
70 D	44.38	1.2719E-08	163.6	98.97	239.5	119.7	UL-RL	2.2313E+05	325.2	122.9
1.000	1.000	221.9	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
71 D	45.03	9.8099E-09	166.1	100.2	242.0	121.0	UL-RL	2.2313E+05	325.0	124.9
1.000	1.000	225.1	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
72 D	45.68	6.9099E-09	168.6	101.5	244.5	122.2	UL-RL	2.2313E+05	324.8	126.9
1.000	1.000	228.4	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
73 D	46.34	4.0151E-09	171.1	102.8	247.0	123.5	UL-RL	2.2313E+05	324.6	128.9
1.000	1.000	231.7	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
74 D	46.99	1.1236E-09	173.6	104.1	249.5	124.7	UL-RL	2.2313E+05	324.4	130.9
1.000	1.000	235.0	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
75 D	47.65	-1.7664E-09	176.1	105.3	252.0	126.0	UL-RL	2.2313E+05	324.2	132.9
1.000	1.000	238.2	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
76 D	24.15	-4.6427E-09	178.6	106.6	254.5	127.2	UL-RL	2.2313E+05	324.0	134.9
1.000	1.000	241.5	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						

```
 +-----------------------------------------------------------------------------------------------------------------+
 |                   PARATIEPLUS(TM)   NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*         |
 |                                                                                                                 |
 |                                                    ParatiePlus                                                  |
 |                                   Exe Time :28 January 2022   16:22:52                                          |
 +-----------------------------------------------------------------------------------------------------------------+
 New Project


 S T R E S S    R E S U L T S    F O R    G R O U P  N O.   2

 0_R                                                            :
 ELEMENT TYPE    5 NO.OF ELEMENTS. IN THIS GROUP   76
 C U R R E N T    T I M E    I S      2.0000 SUBINCREMENT 00001/00001

  HARDENING 2D SOIL ELEMENT

  ****** TOTAL STRESS FORMULATION *****

  EL *   FORCE     DISPL-Y  VERTICAL-P  HORIZON.-P     MAX-V-P     MAX-H-P          STATE   STIFFNESS Z-LEVEL      PORE        E FAC-
TOR    UFACTOR       Peq          Su_a        Su_p       Cohe_a      Cohe_p     LAYER                              ZFO         QS
QSL         ZD          ZPL          Kz
 -------------------------------------------------------------------------------------------------------------------------------------
--------------------------------------------------------------------------------------------------------------------------------------
----------------------------------------------
   1 D  3.5179E-03  4.6619E-07   0.000      3.5179E-02   76.00       38.00          UL-RL  7.5461E+04   339.0       0.000
1.000       1.000      3.5179E-02   0.000       0.000       8.000       8.000     Aate_364268_2050_L_0               0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   2 D   1.748      4.6279E-07   3.800       8.742       79.80       39.90          UL-RL  7.5461E+04   338.8       0.000
1.000       1.000       8.742       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0               0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   3 D   2.528      4.5937E-07   7.600       12.64       83.60       41.80          UL-RL  7.5461E+04   338.6       0.000
1.000       1.000       12.64       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0               0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   4 D   3.163      4.5590E-07   11.40       15.82       87.40       43.70          UL-RL  7.5461E+04   338.4       0.000
1.000       1.000       15.82       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0               0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   5 D   3.730      4.5230E-07   15.20       18.65       91.20       45.60          UL-RL  7.5461E+04   338.2       0.000
1.000       1.000       18.65       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0               0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   6 D   4.256      4.4846E-07   19.00       21.28       95.00       47.50          UL-RL  7.5461E+04   338.0       0.000
1.000       1.000       21.28       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0               0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   7 D   4.753      4.4425E-07   22.80       23.77       98.80       49.40          UL-RL  7.5461E+04   337.8       0.000
1.000       1.000       23.77       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0               0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   8 D   5.231      4.3949E-07   26.60       26.16       102.6       51.30          UL-RL  7.5461E+04   337.6       0.000
1.000       1.000       26.16       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0               0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   9 D   5.728     -2.6006E-06   29.31       27.55       105.0       52.52          UL-RL  7.5461E+04   337.4       1.091
1.000       1.000       28.64       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0               0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  10 D   6.345     -2.5216E-06   31.12       28.64       106.9       53.43          UL-RL  7.5461E+04   337.2       3.086
1.000       1.000       31.73       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0               0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  11 D   6.960     -2.4438E-06   32.92       29.72       108.7       54.33          UL-RL  7.5461E+04   337.0       5.080
1.000       1.000       34.80       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0               0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  12 D   7.573     -2.3672E-06   34.73       30.79       110.5       55.24          UL-RL  7.5461E+04   336.8       7.075
1.000       1.000       37.87       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0               0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  13 D   8.184     -2.2921E-06   36.53       31.85       112.3       56.14          UL-RL  7.5461E+04   336.6       9.069
1.000       1.000       40.92       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0               0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  14 D   8.793     -2.2182E-06   38.34       32.90       114.1       57.05          UL-RL  7.5461E+04   336.4       11.06
1.000       1.000       43.97       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0               0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  15 D   9.401     -2.1458E-06   40.14       33.94       115.9       57.95          UL-RL  7.5461E+04   336.2       13.06
1.000       1.000       47.00       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0               0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  16 D   10.01     -2.0747E-06   41.95       34.98       117.7       58.86          UL-RL  7.5461E+04   336.0       15.05
1.000       1.000       50.03       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0               0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  17 D   10.61     -2.0048E-06   43.76       36.01       119.5       59.76          UL-RL  7.5461E+04   335.8       17.05
1.000       1.000       53.06       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0               0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  18 D   11.21     -1.9359E-06   45.56       37.03       121.3       60.67          UL-RL  7.5461E+04   335.6       19.04
1.000       1.000       56.07       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0               0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  19 D   11.82     -1.8679E-06   47.37       38.04       123.1       61.57          UL-RL  7.5461E+04   335.4       21.04
1.000       1.000       59.08       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0               0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  20 D   12.42     -1.8006E-06   49.17       39.06       124.9       62.47          UL-RL  7.5461E+04   335.2       23.03
1.000       1.000       62.09       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0               0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  21 D   14.04     -6.4195E-08   50.98       45.15       126.8       71.24          UL-RL  4.0994E+05   335.0       25.03
1.000       1.000       70.18       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0               0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  22 D   14.68     -6.8401E-08   52.98       46.39       128.8       72.37          UL-RL  4.0994E+05   334.8       27.02
```

```
1.000       1.000       73.41       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  23 D   15.33     -7.2462E-08   54.99       47.63       130.8       73.50          UL-RL  4.0994E+05   334.6       29.02
1.000       1.000       76.65       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  24 D   15.97     -7.6173E-08   56.99       48.86       132.8       74.63          UL-RL  4.0994E+05   334.4       31.01
1.000       1.000       79.87       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  25 D   16.62     -7.9364E-08   59.00       50.09       134.8       75.76          UL-RL  4.0994E+05   334.2       33.01
1.000       1.000       83.09       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  26 D   17.26     -8.1903E-08   61.01       51.31       136.8       76.88          UL-RL  4.0994E+05   334.0       35.00
1.000       1.000       86.31       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  27 D   17.90     -8.3687E-08   63.01       52.53       138.8       78.01          UL-RL  4.0994E+05   333.8       36.99
1.000       1.000       89.52       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  28 D   18.55     -8.4637E-08   65.02       53.74       140.8       79.14          UL-RL  4.0994E+05   333.6       38.99
1.000       1.000       92.73       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  29 D   19.19     -8.4700E-08   67.02       54.95       142.8       80.27          UL-RL  4.0994E+05   333.4       40.98
1.000       1.000       95.94       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  30 D   19.83     -8.3841E-08   69.03       56.16       144.8       81.40          UL-RL  4.0994E+05   333.2       42.98
1.000       1.000       99.14       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  31 D   20.47     -8.2042E-08   71.03       57.37       146.9       82.53          UL-RL  4.0994E+05   333.0       44.97
1.000       1.000       102.3       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  32 D   21.11     -7.9300E-08   73.04       58.57       148.9       83.66          UL-RL  4.0994E+05   332.8       46.97
1.000       1.000       105.5       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  33 D   21.75     -7.5621E-08   75.05       59.77       150.9       84.79          UL-RL  4.0994E+05   332.6       48.96
1.000       1.000       108.7       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  34 D   22.38     -7.1023E-08   77.05       60.97       152.9       85.92          UL-RL  4.0994E+05   332.4       50.96
1.000       1.000       111.9       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  35 D   23.02     -6.5530E-08   79.06       62.16       154.9       87.05          UL-RL  4.0994E+05   332.2       52.95
1.000       1.000       115.1       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  36 D   23.66     -5.9174E-08   81.06       63.36       156.9       88.18          UL-RL  4.0994E+05   332.0       54.95
1.000       1.000       118.3       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  37 D   24.30     -5.1991E-08   83.07       64.55       158.9       89.31          UL-RL  4.0994E+05   331.8       56.94
1.000       1.000       121.5       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  38 D   24.93     -4.4017E-08   85.07       65.74       160.9       90.44          UL-RL  4.0994E+05   331.6       58.94
1.000       1.000       124.7       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  39 D   25.57     -3.5308E-08   87.08       66.93       162.9       91.56          UL-RL  4.0994E+05   331.4       60.93
1.000       1.000       127.9       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  40 D   26.21     -2.5907E-08   89.08       68.11       164.9       92.69          UL-RL  4.0994E+05   331.2       62.93
1.000       1.000       131.0       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  41 D   25.31     -8.1617E-08   91.09       61.64       166.9       83.47          UL-RL  2.0168E+05   331.0       64.92
1.000       1.000       126.6       0.000       0.000       40.00       40.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  42 D   25.97     -8.2116E-08   93.59       62.95       169.4       84.72          UL-RL  2.0168E+05   330.8       66.92
1.000       1.000       129.9       0.000       0.000       40.00       40.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  43 D   26.63     -8.2090E-08   96.09       64.25       171.9       85.97          UL-RL  2.0168E+05   330.6       68.92
1.000       1.000       133.2       0.000       0.000       40.00       40.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  44 D   27.30     -8.1595E-08   98.59       65.56       174.4       87.22          UL-RL  2.0168E+05   330.4       70.92
1.000       1.000       136.5       0.000       0.000       40.00       40.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  45 D   27.96     -8.0681E-08   101.1       66.86       176.9       88.47          UL-RL  2.0168E+05   330.2       72.92
1.000       1.000       139.8       0.000       0.000       40.00       40.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  46 D   28.61     -7.9397E-08   103.6       68.16       179.5       89.73          UL-RL  2.0168E+05   330.0       74.92
1.000       1.000       143.1       0.000       0.000       40.00       40.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  47 D   29.27     -7.7788E-08   106.1       69.45       182.0       90.98          UL-RL  2.0168E+05   329.8       76.92
1.000       1.000       146.4       0.000       0.000       40.00       40.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  48 D   29.93     -7.5898E-08   108.6       70.75       184.5       92.23          UL-RL  2.0168E+05   329.6       78.92
1.000       1.000       149.7       0.000       0.000       40.00       40.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  49 D   30.59     -7.3767E-08   111.1       72.04       187.0       93.48          UL-RL  2.0168E+05   329.4       80.92
1.000       1.000       153.0       0.000       0.000       40.00       40.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  50 D   31.25     -7.1431E-08   113.6       73.34       189.5       94.73          UL-RL  2.0168E+05   329.2       82.92
1.000       1.000       156.3       0.000       0.000       40.00       40.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  51 D   31.91     -6.8923E-08   116.1       74.63       192.0       95.98          UL-RL  2.0168E+05   329.0       84.92
1.000       1.000       159.5       0.000       0.000       40.00       40.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  52 D   32.57     -6.6272E-08   118.6       75.92       194.5       97.23          UL-RL  2.0168E+05   328.8       86.92
1.000       1.000       162.8       0.000       0.000       40.00       40.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
```

53 D	33.22	-6.3506E-08	121.1	77.21	197.0	98.48	UL-RL	2.0168E+05	328.6	88.91
1.000	1.000	166.1	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
54 D	33.88	-6.0648E-08	123.6	78.49	199.5	99.73	UL-RL	2.0168E+05	328.4	90.91
1.000	1.000	169.4	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
55 D	34.54	-5.7719E-08	126.1	79.78	202.0	101.0	UL-RL	2.0168E+05	328.2	92.91
1.000	1.000	172.7	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
56 D	35.20	-5.4738E-08	128.6	81.07	204.5	102.2	UL-RL	2.0168E+05	328.0	94.91
1.000	1.000	176.0	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
57 D	35.85	-5.1722E-08	131.1	82.35	207.0	103.5	UL-RL	2.0168E+05	327.8	96.91
1.000	1.000	179.3	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
58 D	36.51	-4.8682E-08	133.6	83.63	209.5	104.7	UL-RL	2.0168E+05	327.6	98.91
1.000	1.000	182.5	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
59 D	37.17	-4.5630E-08	136.1	84.92	212.0	106.0	UL-RL	2.0168E+05	327.4	100.9
1.000	1.000	185.8	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
60 D	37.82	-4.2575E-08	138.6	86.20	214.5	107.2	UL-RL	2.0168E+05	327.2	102.9
1.000	1.000	189.1	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
61 D	38.48	-3.9524E-08	141.1	87.48	217.0	108.5	UL-RL	2.0168E+05	327.0	104.9
1.000	1.000	192.4	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
62 D	39.13	-3.6483E-08	143.6	88.76	219.5	109.7	UL-RL	2.0168E+05	326.8	106.9
1.000	1.000	195.7	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
63 D	39.79	-3.3453E-08	146.1	90.04	222.0	111.0	UL-RL	2.0168E+05	326.6	108.9
1.000	1.000	198.9	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
64 D	40.45	-3.0441E-08	148.6	91.31	224.5	112.2	UL-RL	2.0168E+05	326.4	110.9
1.000	1.000	202.2	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
65 D	41.10	-2.7447E-08	151.1	92.59	227.0	113.5	UL-RL	2.0168E+05	326.2	112.9
1.000	1.000	205.5	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
66 D	41.76	-2.4470E-08	153.6	93.87	229.5	114.7	UL-RL	2.0168E+05	326.0	114.9
1.000	1.000	208.8	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
67 D	42.41	-2.1510E-08	156.1	95.14	232.0	116.0	UL-RL	2.0168E+05	325.8	116.9
1.000	1.000	212.1	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
68 D	43.07	-1.8566E-08	158.6	96.42	234.5	117.2	UL-RL	2.0168E+05	325.6	118.9
1.000	1.000	215.3	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
69 D	43.72	-1.5636E-08	161.1	97.69	237.0	118.5	UL-RL	2.0168E+05	325.4	120.9
1.000	1.000	218.6	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
70 D	44.38	-1.2719E-08	163.6	98.97	239.5	119.7	UL-RL	2.0168E+05	325.2	122.9
1.000	1.000	221.9	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
71 D	45.03	-9.8099E-09	166.1	100.2	242.0	121.0	UL-RL	2.0168E+05	325.0	124.9
1.000	1.000	225.1	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
72 D	45.68	-6.9099E-09	168.6	101.5	244.5	122.2	UL-RL	2.0168E+05	324.8	126.9
1.000	1.000	228.4	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
73 D	46.34	-4.0151E-09	171.1	102.8	247.0	123.5	UL-RL	2.0168E+05	324.6	128.9
1.000	1.000	231.7	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
74 D	46.99	-1.1236E-09	173.6	104.1	249.5	124.7	UL-RL	2.0168E+05	324.4	130.9
1.000	1.000	235.0	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
75 D	47.65	1.7664E-09	176.1	105.3	252.0	126.0	UL-RL	2.0168E+05	324.2	132.9
1.000	1.000	238.2	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
76 D	24.15	4.6427E-09	178.6	106.6	254.5	127.2	UL-RL	2.0168E+05	324.0	134.9
1.000	1.000	241.5	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						

```
+------------------------------------------------------------------------------------------------------------------------+
|                   PARATIEPLUS(TM)   NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*               |
|                                                                                                                        |
|                                                        ParatiePlus                                                     |
|                                   Exe Time :28 January 2022   16:22:52                                                 |
+------------------------------------------------------------------------------------------------------------------------+
New Project


S T R E S S    R E S U L T S    F O R    G R O U P  N O.    3

Pali1500_253215                                                 :
ELEMENT TYPE    2 NO.OF ELEMENTS. IN THIS GROUP   75
C U R R E N T    T I M E    I S      2.0000 SUBINCREMENT 00001/00001

 WALL2D ELEMENT

   EL      TA          TB          MA          MB
------------------------------------------------
    1-3.51795E-03 3.51795E-03 9.54792E-15-7.03590E-04
    2-1.93337E-02 1.93337E-02 7.03590E-04-4.57033E-03
    3-3.50326E-02 3.50326E-02 4.57033E-03-1.15769E-02
    4-5.06130E-02 5.06130E-02 1.15769E-02-2.16994E-02
    5-6.60703E-02 6.60703E-02 2.16994E-02-3.49201E-02
    6-8.13965E-02 8.13965E-02 3.49201E-02-5.11994E-02
    7-9.65787E-02 9.65787E-02 5.11994E-02-7.05151E-02
    8-0.11160     0.11160     7.05151E-02-9.28348E-02
    9-8.50781E-02 8.50781E-02 9.28348E-02-0.10985
   10-5.98894E-02 5.98894E-02 0.10985    -0.12183
   11-3.59227E-02 3.59227E-02 0.12183    -0.12901
   12-1.30757E-02 1.30757E-02 0.12901    -0.13163
   13 8.74754E-03-8.74754E-03 0.13163    -0.12988
   14 2.96360E-02-2.96360E-02 0.12988    -0.12395
   15 4.96728E-02-4.96728E-02 0.12395    -0.11402
   16 6.89334E-02-6.89334E-02 0.11402    -0.10023
   17 8.74853E-02-8.74853E-02 0.10023    -8.27321E-02
   18 0.10539    -0.10539     8.27321E-02-6.16546E-02
   19 0.12269    -0.12269     6.16546E-02-3.71167E-02
   20 0.13943    -0.13943     3.71167E-02-9.23063E-03
   21 0.11719    -0.11719     9.23063E-03 1.42192E-02
   22 9.69979E-02-9.69979E-02-1.42192E-02 3.36188E-02
   23 7.88415E-02-7.88415E-02-3.36188E-02 4.93871E-02
   24 6.26752E-02-6.26752E-02-4.93871E-02 6.19222E-02
   25 4.84220E-02-4.84220E-02-6.19222E-02 7.16066E-02
   26 3.59810E-02-3.59810E-02-7.16066E-02 7.88028E-02
   27 2.52323E-02-2.52323E-02-7.88028E-02 8.38492E-02
   28 1.60419E-02-1.60419E-02-8.38492E-02 8.70576E-02
   29 8.26552E-03-8.26552E-03-8.70576E-02 8.87115E-02
   30 1.75298E-03-1.75298E-03-8.87115E-02 8.90621E-02
   31-3.65110E-03 3.65110E-03-8.90621E-02 8.83319E-02
   32-8.10272E-03 8.10272E-03-8.83319E-02 8.67113E-02
   33-1.17572E-02 1.17572E-02-8.67113E-02 8.43599E-02
   34-1.47674E-02 1.47674E-02-8.43599E-02 8.14064E-02
   35-1.72826E-02 1.72826E-02-8.14064E-02 7.79499E-02
   36-1.94469E-02 1.94469E-02-7.79499E-02 7.40605E-02
   37-2.13987E-02 2.13987E-02-7.40605E-02 6.97786E-02
   38-2.32696E-02 2.32696E-02-6.97786E-02 6.51247E-02
   39-2.51839E-02 2.51839E-02-6.51247E-02 6.00879E-02
   40-2.72577E-02 2.72577E-02-6.00879E-02 5.46364E-02
   41-2.64770E-02 2.64770E-02-5.46364E-02 4.93410E-02
   42-2.54793E-02 2.54793E-02-4.93410E-02 4.42452E-02
   43-2.43089E-02 2.43089E-02-4.42452E-02 3.93834E-02
   44-2.30054E-02 2.30054E-02-3.93834E-02 3.47823E-02
   45-2.16043E-02 2.16043E-02-3.47823E-02 3.04614E-02
   46-2.01368E-02 2.01368E-02-3.04614E-02 2.64321E-02
   47-1.86302E-02 1.86302E-02-2.64321E-02 2.27060E-02
   48-1.71083E-02 1.71083E-02-2.27060E-02 1.92844E-02
   49-1.55916E-02 1.55916E-02-1.92844E-02 1.61660E-02
   50-1.40974E-02 1.40974E-02-1.61660E-02 1.33466E-02
   51-1.26403E-02 1.26403E-02-1.33466E-02 1.08185E-02
   52-1.12323E-02 1.12323E-02-1.08185E-02 8.57204E-03
   53-9.88317E-03 9.88317E-03-8.57204E-03 6.59541E-03
   54-8.60067E-03 8.60067E-03-6.59541E-03 4.87442E-03
   55-7.39079E-03 7.39079E-03-4.87442E-03 3.39626E-03
   56-6.25794E-03 6.25794E-03-3.39626E-03 2.14467E-03
   57-5.20520E-03 5.20520E-03-2.14467E-03 1.10363E-03
   58-4.23455E-03 4.23455E-03-1.10363E-03 2.56719E-04
   59-3.34702E-03 3.34702E-03-2.56719E-04-4.12685E-04
   60-2.54290E-03 2.54290E-03 4.12685E-04-9.21265E-04
   61-1.82185E-03 1.82185E-03 9.21265E-04-1.28563E-03
   62-1.18308E-03 1.18308E-03 1.28563E-03-1.52237E-03
   63-6.25536E-04 6.25536E-04 1.52237E-03-1.64748E-03
   64-1.47845E-04 1.47845E-04 1.64748E-03-1.67705E-03
   65 2.51430E-04-2.51430E-04 1.67705E-03-1.62676E-03
   66 5.73751E-04-5.73751E-04 1.62676E-03-1.51201E-03
   67 8.20537E-04-8.20537E-04 1.51201E-03-1.34790E-03
   68 9.93102E-04-9.93102E-04 1.34790E-03-1.14928E-03
   69 1.09262E-03-1.09262E-03 1.14928E-03-9.30758E-04
   70 1.12007E-03-1.12007E-03 9.30758E-04-7.06632E-04
```

```
   71 1.07622E-03-1.07622E-03 7.06632E-04-4.91389E-04
   72 9.61688E-04-9.61688E-04 4.91389E-04-2.99052E-04
   73 7.76885E-04-7.76885E-04 2.99052E-04-1.43675E-04
   74 5.22034E-04-5.22034E-04 1.43675E-04-3.92678E-05
   75 1.97227E-04-1.97227E-04 3.92678E-05 8.32667E-17

ITER     0 RNORM = 0.000     RMNORM= 0.000
           RINORM=0.6389E+05 RIMNOR=0.5248
           RENORM= 7856.     REMNOR=0.3750E-24 RATIO =0.3507     TOLER =0.1000E-03  NOT CONVERGED
           RFMAX = 42.19     RMMAX =0.1316
           RTSMAL=0.1000E-03 RMSMAL=0.1000E-05
           RDT   =0.6389E+05 RDR   =0.5248
           RATIOT=0.3507     RATIOR= 0.000
           MAX UN= 17.37     IEQ=    61 NODE     31 DOF   1  Y-DISPL.F
           MIN UN=-.2269E-12 IEQ=    28 NODE     14 DOF   2   X-ROT. F
           NO. OF CONTACT CONSTRAINT VIOLATIONS     0


ITER     2 RNORM = 0.000     RMNORM= 0.000
           RINORM=0.6389E+05 RIMNOR=0.5248
           RENORM= 2243.     REMNOR=0.3844E-18 RATIO =0.1874     TOLER =0.1000E-03  NOT CONVERGED
           RFMAX = 42.19     RMMAX =0.1316
           RTSMAL=0.1000E-03 RMSMAL=0.1000E-05
           RDT   =0.6389E+05 RDR   =0.5248
           RATIOT=0.1874     RATIOR= 0.000
           MAX UN= 14.45     IEQ=    61 NODE     31 DOF   1  Y-DISPL.F
           MIN UN=-.3556E-08 IEQ=    27 NODE     14 DOF   1  Y-DISPL.F
           NO. OF CONTACT CONSTRAINT VIOLATIONS     0


ITER     3 RNORM = 0.000     RMNORM= 0.000
           RINORM=0.6389E+05 RIMNOR=0.5248
           RENORM= 490.6     REMNOR=0.1412E-17 RATIO =0.8763E-01 TOLER =0.1000E-03  NOT CONVERGED
           RFMAX = 42.19     RMMAX =0.1316
           RTSMAL=0.1000E-03 RMSMAL=0.1000E-05
           RDT   =0.6389E+05 RDR   =0.5248
           RATIOT=0.8763E-01 RATIOR= 0.000
           MAX UN= 7.590     IEQ=    15 NODE      8 DOF   1  Y-DISPL.F
           MIN UN=-.3872E-08 IEQ=    69 NODE     35 DOF   1  Y-DISPL.F
           NO. OF CONTACT CONSTRAINT VIOLATIONS     0


ITER     4 RNORM = 0.000     RMNORM= 0.000
           RINORM=0.6389E+05 RIMNOR=0.5248
           RENORM= 1501.     REMNOR=0.2065E-16 RATIO =0.1533     TOLER =0.1000E-03  NOT CONVERGED
           RFMAX = 42.19     RMMAX =0.1316
           RTSMAL=0.1000E-03 RMSMAL=0.1000E-05
           RDT   =0.6389E+05 RDR   =0.5248
           RATIOT=0.1533     RATIOR= 0.000
           MAX UN= 20.86     IEQ=    87 NODE     44 DOF   1  Y-DISPL.F
           MIN UN=-2.266     IEQ=   149 NODE     75 DOF   1  Y-DISPL.F
           NO. OF CONTACT CONSTRAINT VIOLATIONS     0


ITER     5 RNORM = 0.000     RMNORM= 0.000
           RINORM=0.6389E+05 RIMNOR=0.5248
           RENORM= 264.9     REMNOR=0.9729E-17 RATIO =0.6439E-01 TOLER =0.1000E-03  NOT CONVERGED
           RFMAX = 42.19     RMMAX =0.1316
           RTSMAL=0.1000E-03 RMSMAL=0.1000E-05
           RDT   =0.6389E+05 RDR   =0.5248
           RATIOT=0.6439E-01 RATIOR= 0.000
           MAX UN= 11.21     IEQ=   107 NODE     54 DOF   1  Y-DISPL.F
           MIN UN=-1.497     IEQ=   137 NODE     69 DOF   1  Y-DISPL.F
           NO. OF CONTACT CONSTRAINT VIOLATIONS     0


ITER     6 RNORM = 0.000     RMNORM= 0.000
           RINORM=0.6389E+05 RIMNOR=0.5248
           RENORM= 1.400     REMNOR=0.8992E-17 RATIO =0.4680E-02 TOLER =0.1000E-03  NOT CONVERGED
           RFMAX = 42.19     RMMAX =0.1316
           RTSMAL=0.1000E-03 RMSMAL=0.1000E-05
           RDT   =0.6389E+05 RDR   =0.5248
           RATIOT=0.4680E-02 RATIOR= 0.000
           MAX UN= 1.053     IEQ=   115 NODE     58 DOF   1  Y-DISPL.F
           MIN UN=-.1848     IEQ=   135 NODE     68 DOF   1  Y-DISPL.F
           NO. OF CONTACT CONSTRAINT VIOLATIONS     0


ITER     7 RNORM = 0.000     RMNORM= 0.000
           RINORM=0.6389E+05 RIMNOR=0.5248
           RENORM=0.4825E-04 REMNOR=0.8424E-17 RATIO =0.2748E-04 TOLER =0.1000E-03      CONVERGED !
           RFMAX = 42.19     RMMAX =0.1316
           RTSMAL=0.1000E-03 RMSMAL=0.1000E-05
           RDT   =0.6389E+05 RDR   =0.5248
           RATIOT=0.2748E-04 RATIOR= 0.000
           MAX UN=0.2006E-07 IEQ=     5 NODE      3 DOF   1  Y-DISPL.F
           MIN UN=-.6327E-02 IEQ=   139 NODE     70 DOF   1  Y-DISPL.F
           NO. OF CONTACT CONSTRAINT VIOLATIONS     0
```

```
+-----------------------------------------------------------------------------------------------------------------------+
|                  PARATIEPLUS(TM)   NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*             |
|                                                                                                                       |
|                                                ParatiePlus                                                            |
|                                Exe Time :28 January 2022   16:22:52                                                   |
+-----------------------------------------------------------------------------------------------------------------------+
New Project
SOLUTION REACHED USING     7 ITERATIONS ON   80

P R I N T   O U T   F O R   T I M E   S T E P    3     ( AT TIME   3.000     ) SUBINCREMENT 00001/00001

PRINT OUT OF ACTIVE COMPONENTS (FIXED NODES ARE NOT PRINTED OUT)

          Y-DISPL.F        X-ROT. F
            02               04
    1   1.7003559E-02  -1.5734209E-03
    2   1.6688875E-02  -1.5734209E-03
    3   1.6374191E-02  -1.5734209E-03
    4   1.6059507E-02  -1.5734209E-03
    5   1.5744823E-02  -1.5734209E-03
    6   1.5429981E-02  -1.5734209E-03
    7   1.5115297E-02  -1.5734209E-03
    8   1.4800613E-02  -1.5734209E-03
    9   1.4482894E-02  -1.5734204E-03
   10   1.4168296E-02  -1.5734164E-03
   11   1.3853699E-02  -1.5734021E-03
   12   1.3539107E-02  -1.5733660E-03
   13   1.3224526E-02  -1.5732925E-03
   14   1.2909808E-02  -1.5731613E-03
   15   1.2595281E-02  -1.5729479E-03
   16   1.2280807E-02  -1.5726232E-03
   17   1.1966412E-02  -1.5721538E-03
   18   1.1652129E-02  -1.5715019E-03
   19   1.1337997E-02  -1.5706252E-03
   20   1.1024068E-02  -1.5694770E-03
   21   1.0712069E-02  -1.5680062E-03
   22   1.0398504E-02  -1.5661442E-03
   23   1.0085515E-02  -1.5638081E-03
   24   9.7730474E-03  -1.5609060E-03
   25   9.4612252E-03  -1.5573413E-03
   26   9.1501908E-03  -1.5530112E-03
   27   8.8401079E-03  -1.5478068E-03
   28   8.5311629E-03  -1.5416134E-03
   29   8.2235654E-03  -1.5343104E-03
   30   7.9173975E-03  -1.5257664E-03
   31   7.6132256E-03  -1.5158572E-03
   32   7.3111821E-03  -1.5044680E-03
   33   7.0115711E-03  -1.4915207E-03
   34   6.7147107E-03  -1.4769538E-03
   35   6.4209297E-03  -1.4607197E-03
   36   6.1305655E-03  -1.4427793E-03
   37   5.8439628E-03  -1.4230994E-03
   38   5.5613322E-03  -1.4016414E-03
   39   5.2833120E-03  -1.3784052E-03
   40   5.0101193E-03  -1.3533645E-03
   41   4.7420503E-03  -1.3265094E-03
   42   4.4795801E-03  -1.2979665E-03
   43   4.2229658E-03  -1.2679915E-03
   44   3.9724692E-03  -1.2368311E-03
   45   3.7283032E-03  -1.2047232E-03
   46   3.4906344E-03  -1.1718970E-03
   47   3.2594704E-03  -1.1385564E-03
   48   3.0351203E-03  -1.1049470E-03
   49   2.8175036E-03  -1.0712567E-03
   50   2.6066166E-03  -1.0376818E-03
   51   2.4024173E-03  -1.0044111E-03
   52   2.2048264E-03  -9.7162603E-04
   53   2.0137295E-03  -9.3950067E-04
   54   1.8289777E-03  -9.0820218E-04
   55   1.6503017E-03  -8.7787606E-04
   56   1.4776670E-03  -8.4870641E-04
   57   1.3107399E-03  -8.2082528E-04
   58   1.1492482E-03  -7.9437393E-04
   59   9.9289258E-04  -7.6948769E-04
   60   8.4134683E-04  -7.4629608E-04
   61   6.9426027E-04  -7.2491228E-04
   62   5.5126247E-04  -7.0541981E-04
   63   4.1190068E-04  -6.8786195E-04
   64   2.7592290E-04  -6.7227674E-04
   65   1.4286640E-04  -6.5864508E-04
   66   1.2343909E-05  -6.4692752E-04
   67  -1.1602101E-04  -6.3705559E-04
   68  -2.4258826E-04  -6.2893232E-04
   69  -3.6769577E-04  -6.2243617E-04
   70  -4.9165514E-04  -6.1742584E-04
   71  -6.1480923E-04  -6.1373989E-04
   72  -7.3728274E-04  -6.1120416E-04
   73  -8.5934778E-04  -6.0962133E-04
   74  -9.8117399E-04  -6.0877897E-04
```

```
75  -1.1028868E-03  -6.0844745E-04
76  -1.2240164E-03  -6.0837992E-04
```

```
+-----------------------------------------------------------------------------------------------------------------------+
|                  PARATIEPLUS(TM)   NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*             |
|                                                                                                                       |
|                                              ParatiePlus                                                              |
|                                    Exe Time :28 January 2022   16:22:52                                               |
+-----------------------------------------------------------------------------------------------------------------------+
New Project


S T R E S S   R E S U L T S   F O R   G R O U P   N O.   1

0_L                                                    :
ELEMENT TYPE    5 NO.OF ELEMENTS. IN THIS GROUP   76
C U R R E N T   T I M E   I S      3.0000 SUBINCREMENT 00001/00001

 HARDENING 2D SOIL ELEMENT

 ****** TOTAL STRESS FORMULATION *****

  EL *   FORCE     DISPL-Y  VERTICAL-P  HORIZON.-P     MAX-V-P     MAX-H-P          STATE   STIFFNESS Z-LEVEL      PORE       E FAC-
TOR    UFACTOR       Peq          Su_a        Su_p        Cohe_a      Cohe_p     LAYER                                ZFO         QS
QSL          ZD          ZPL          Kz
 ------------------------------------------------------------------------------------------------------------------------------------
------------------------------------------------------------------------------------------------------------------------------------
-----------------------------------------------
   1 D   0.000     -1.7004E-02   0.000       0.000       76.00       38.00          ACTIVE   0.000       339.0       0.000
1.000       1.000       0.000       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   2 D   0.000     -1.6689E-02   3.800       0.000       79.80       39.90          ACTIVE   0.000       338.8       0.000
1.000       1.000       0.000       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   3 D   0.000     -1.6374E-02   7.600       0.000       83.60       41.80          ACTIVE   0.000       338.6       0.000
1.000       1.000       0.000       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   4 D   0.000     -1.6060E-02   11.40       0.000       87.40       43.70          ACTIVE   0.000       338.4       0.000
1.000       1.000       0.000       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   5 D   0.000     -1.5745E-02   15.20       0.000       91.20       45.60          ACTIVE   0.000       338.2       0.000
1.000       1.000       0.000       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   6 D   0.000     -1.5430E-02   19.00       0.000       95.00       47.50          ACTIVE   0.000       338.0       0.000
1.000       1.000       0.000       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   7 D   0.000     -1.5115E-02   22.80       0.000       98.80       49.40          ACTIVE   0.000       337.8       0.000
1.000       1.000       0.000       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   8 D  0.1015     -1.4801E-02   26.60      0.5075       102.6       51.30          ACTIVE   0.000       337.6       0.000
1.000       1.000      0.5075       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   9 D  0.4443     -1.4483E-02   30.07       1.893       105.7       52.95          ACTIVE   0.000       337.4       0.3288
1.000       1.000       2.221       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  10 D  0.8603     -1.4168E-02   32.93       3.034       107.5       53.84          ACTIVE   0.000       337.2       1.267
1.000       1.000       4.301       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  11 D   1.276     -1.3854E-02   35.80       4.176       109.3       54.73          ACTIVE   0.000       337.0       2.205
1.000       1.000       6.381       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  12 D   1.692     -1.3539E-02   38.66       5.318       111.1       55.62          ACTIVE   0.000       336.8       3.143
1.000       1.000       8.461       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  13 D   2.108     -1.3225E-02   41.52       6.460       112.9       56.52          ACTIVE   0.000       336.6       4.081
1.000       1.000       10.54       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  14 D   2.524     -1.2910E-02   44.38       7.603       114.7       57.41          ACTIVE   0.000       336.4       5.020
1.000       1.000       12.62       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  15 D   2.940     -1.2595E-02   47.25       8.744       116.4       58.30          ACTIVE   0.000       336.2       5.958
1.000       1.000       14.70       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  16 D   3.356     -1.2281E-02   50.11       9.886       118.2       59.19          ACTIVE   0.000       336.0       6.896
1.000       1.000       16.78       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  17 D   3.772     -1.1966E-02   52.97       11.03       120.0       60.09          ACTIVE   0.000       335.8       7.834
1.000       1.000       18.86       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  18 D   4.188     -1.1652E-02   55.83       12.17       121.8       60.98          ACTIVE   0.000       335.6       8.772
1.000       1.000       20.94       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  19 D   4.604     -1.1338E-02   58.69       13.31       123.6       61.87          ACTIVE   0.000       335.4       9.710
1.000       1.000       23.02       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  20 D   5.021     -1.1024E-02   61.56       14.45       125.4       62.77          ACTIVE   0.000       335.2       10.65
1.000       1.000       25.10       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  21 D   7.709     -1.0712E-02   64.42       26.96       127.2       71.53          ACTIVE   0.000       335.0       11.59
1.000       1.000       38.55       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  22 D   8.273     -1.0399E-02   67.48       28.84       129.2       72.65          ACTIVE   0.000       334.8       12.53
```

1.000	1.000	41.36	0.000	0.000	8.000	8.000	Salt_1270_202756_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
23 D	8.836	-1.0086E-02	70.54	30.72	131.2	73.76	ACTIVE	0.000	334.6	13.46	
1.000	1.000	44.18	0.000	0.000	8.000	8.000	Salt_1270_202756_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
24 D	9.399	-9.7730E-03	73.60	32.59	133.2	74.88	ACTIVE	0.000	334.4	14.40	
1.000	1.000	46.99	0.000	0.000	8.000	8.000	Salt_1270_202756_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
25 D	9.962	-9.4612E-03	76.67	34.47	135.2	76.00	ACTIVE	0.000	334.2	15.34	
1.000	1.000	49.81	0.000	0.000	8.000	8.000	Salt_1270_202756_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
26 D	10.52	-9.1502E-03	79.73	36.35	137.1	77.11	ACTIVE	0.000	334.0	16.28	
1.000	1.000	52.62	0.000	0.000	8.000	8.000	Salt_1270_202756_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
27 D	11.09	-8.8401E-03	82.79	38.22	139.1	78.23	ACTIVE	0.000	333.8	17.22	
1.000	1.000	55.44	0.000	0.000	8.000	8.000	Salt_1270_202756_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
28 D	11.65	-8.5312E-03	85.85	40.10	141.1	79.35	ACTIVE	0.000	333.6	18.15	
1.000	1.000	58.25	0.000	0.000	8.000	8.000	Salt_1270_202756_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
29 D	12.21	-8.2236E-03	88.91	41.98	143.1	80.46	ACTIVE	0.000	333.4	19.09	
1.000	1.000	61.07	0.000	0.000	8.000	8.000	Salt_1270_202756_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
30 D	12.78	-7.9174E-03	91.98	43.85	145.1	81.58	ACTIVE	0.000	333.2	20.03	
1.000	1.000	63.89	0.000	0.000	8.000	8.000	Salt_1270_202756_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
31 D	13.34	-7.6132E-03	95.04	45.73	147.1	82.70	ACTIVE	0.000	333.0	20.97	
1.000	1.000	66.70	0.000	0.000	8.000	8.000	Salt_1270_202756_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
32 D	13.90	-7.3112E-03	98.10	47.61	149.1	83.81	ACTIVE	0.000	332.8	21.91	
1.000	1.000	69.52	0.000	0.000	8.000	8.000	Salt_1270_202756_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
33 D	14.47	-7.0116E-03	101.2	49.49	151.1	84.93	ACTIVE	0.000	332.6	22.85	
1.000	1.000	72.33	0.000	0.000	8.000	8.000	Salt_1270_202756_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
34 D	15.03	-6.7147E-03	104.2	51.36	153.1	86.05	ACTIVE	0.000	332.4	23.78	
1.000	1.000	75.15	0.000	0.000	8.000	8.000	Salt_1270_202756_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
35 D	15.59	-6.4209E-03	107.3	53.24	155.1	87.17	ACTIVE	0.000	332.2	24.72	
1.000	1.000	77.96	0.000	0.000	8.000	8.000	Salt_1270_202756_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
36 D	16.16	-6.1306E-03	110.3	55.12	157.1	88.28	ACTIVE	0.000	332.0	25.66	
1.000	1.000	80.78	0.000	0.000	8.000	8.000	Salt_1270_202756_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
37 D	16.72	-5.8440E-03	113.4	56.99	159.0	89.40	ACTIVE	0.000	331.8	26.60	
1.000	1.000	83.59	0.000	0.000	8.000	8.000	Salt_1270_202756_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
38 D	17.28	-5.5613E-03	116.5	58.87	161.0	90.52	ACTIVE	0.000	331.6	27.54	
1.000	1.000	86.41	0.000	0.000	8.000	8.000	Salt_1270_202756_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
39 D	17.84	-5.2833E-03	119.5	60.75	163.0	91.63	ACTIVE	0.000	331.4	28.47	
1.000	1.000	89.22	0.000	0.000	8.000	8.000	Salt_1270_202756_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
40 D	18.41	-5.0101E-03	122.6	62.63	165.0	92.75	ACTIVE	0.000	331.2	29.41	
1.000	1.000	92.04	0.000	0.000	8.000	8.000	Salt_1270_202756_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
41 D	8.919	-4.7421E-03	125.7	14.24	167.0	83.51	ACTIVE	0.000	331.0	30.35	
1.000	1.000	44.60	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
42 D	9.617	-4.4796E-03	128.3	15.84	169.5	84.76	ACTIVE	0.000	330.8	32.25	
1.000	1.000	48.08	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
43 D	10.31	-4.2230E-03	130.9	17.43	172.0	86.01	ACTIVE	0.000	330.6	34.14	
1.000	1.000	51.57	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
44 D	11.01	-3.9725E-03	133.5	19.02	174.5	87.26	ACTIVE	0.000	330.4	36.03	
1.000	1.000	55.06	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
45 D	11.71	-3.7283E-03	136.1	20.61	177.0	88.51	ACTIVE	0.000	330.2	37.93	
1.000	1.000	58.54	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
46 D	12.41	-3.4906E-03	138.7	22.21	179.5	89.76	ACTIVE	0.000	330.0	39.82	
1.000	1.000	62.03	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
47 D	13.10	-3.2595E-03	141.3	23.80	182.0	91.01	ACTIVE	0.000	329.8	41.72	
1.000	1.000	65.52	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
48 D	13.80	-3.0351E-03	143.9	25.39	184.5	92.26	ACTIVE	0.000	329.6	43.61	
1.000	1.000	69.00	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
49 D	14.50	-2.8175E-03	146.5	26.98	187.0	93.51	ACTIVE	0.000	329.4	45.50	
1.000	1.000	72.49	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
50 D	15.19	-2.6066E-03	149.1	28.58	189.5	94.76	ACTIVE	0.000	329.2	47.40	
1.000	1.000	75.97	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
51 D	15.89	-2.4024E-03	151.7	30.17	192.0	96.01	ACTIVE	0.000	329.0	49.29	
1.000	1.000	79.46	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
52 D	16.59	-2.2048E-03	154.3	31.76	194.5	97.26	ACTIVE	0.000	328.8	51.19	
1.000	1.000	82.95	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							

53 D	17.29	-2.0137E-03	156.9	33.35	197.0	98.51	ACTIVE	0.000	328.6	53.08
1.000	1.000	86.43	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
54 D	17.98	-1.8290E-03	159.5	34.95	199.5	99.75	ACTIVE	0.000	328.4	54.97
1.000	1.000	89.92	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
55 D	18.68	-1.6503E-03	162.1	36.54	202.0	101.0	ACTIVE	0.000	328.2	56.87
1.000	1.000	93.41	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
56 D	19.38	-1.4777E-03	164.8	38.13	204.5	102.3	ACTIVE	0.000	328.0	58.76
1.000	1.000	96.89	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
57 D	20.08	-1.3107E-03	167.4	39.72	207.0	103.5	ACTIVE	0.000	327.8	60.66
1.000	1.000	100.4	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
58 D	20.77	-1.1492E-03	170.0	41.32	209.5	104.8	ACTIVE	0.000	327.6	62.55
1.000	1.000	103.9	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
59 D	21.47	-9.9289E-04	172.6	42.91	212.0	106.0	ACTIVE	0.000	327.4	64.44
1.000	1.000	107.4	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
60 D	23.27	-8.4135E-04	175.2	49.99	214.5	107.3	UL-RL	5.5782E+04	327.2	66.34
1.000	1.000	116.3	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
61 D	25.54	-6.9426E-04	177.8	59.48	217.0	108.5	UL-RL	5.5782E+04	327.0	68.23
1.000	1.000	127.7	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
62 D	27.77	-5.5126E-04	180.4	68.74	219.5	109.7	UL-RL	5.5782E+04	326.8	70.12
1.000	1.000	138.9	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
63 D	29.96	-4.1190E-04	183.0	77.80	222.0	111.0	UL-RL	5.5782E+04	326.6	72.02
1.000	1.000	149.8	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
64 D	32.12	-2.7592E-04	185.6	86.67	224.5	112.2	UL-RL	5.5782E+04	326.4	73.91
1.000	1.000	160.6	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
65 D	34.24	-1.4287E-04	188.2	95.38	227.0	113.5	UL-RL	5.5782E+04	326.2	75.81
1.000	1.000	171.2	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
66 D	36.33	-1.2344E-05	190.8	103.9	229.5	114.7	UL-RL	5.5782E+04	326.0	77.70
1.000	1.000	181.6	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
67 D	38.40	1.1602E-04	193.4	112.4	232.0	116.0	UL-RL	5.5782E+04	325.8	79.59
1.000	1.000	192.0	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
68 D	39.78	2.4259E-04	196.0	117.4	234.5	118.9	UL-RL	5.5782E+04	325.6	81.49
1.000	1.000	198.9	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
69 D	40.98	3.6770E-04	198.6	121.5	237.0	122.2	UL-RL	5.5782E+04	325.4	83.38
1.000	1.000	204.9	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
70 D	42.16	4.9166E-04	201.2	125.5	239.5	125.6	UL-RL	5.5782E+04	325.2	85.28
1.000	1.000	210.8	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
71 D	43.25	6.1481E-04	203.8	129.1	242.0	129.1	UL-RL	5.5782E+04	325.0	87.17
1.000	1.000	216.3	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
72 D	44.34	7.3728E-04	206.5	132.6	244.5	132.6	V-C	1.8594E+04	324.8	89.06
1.000	1.000	221.7	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
73 D	45.43	8.5935E-04	209.1	136.2	247.0	136.2	V-C	1.8594E+04	324.6	90.96
1.000	1.000	227.1	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
74 D	46.51	9.8117E-04	211.7	139.7	249.5	139.7	V-C	1.8594E+04	324.4	92.85
1.000	1.000	232.6	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
75 D	47.60	1.1029E-03	214.3	143.2	252.0	143.2	V-C	1.8594E+04	324.2	94.75
1.000	1.000	238.0	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
76 D	24.34	1.2240E-03	216.9	146.7	254.5	146.7	V-C	1.8594E+04	324.0	96.63
1.000	1.000	243.4	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						

New Project

S T R E S S R E S U L T S F O R G R O U P N O. 2

0_R :
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 76
C U R R E N T T I M E I S 3.0000 SUBINCREMENT 00001/00001

HARDENING 2D SOIL ELEMENT

****** TOTAL STRESS FORMULATION *****

EL * TOR QSL	FORCE UFACTOR ZD	DISPL-Y Peq ZPL	VERTICAL-P Su_a Kz	HORIZON.-P Su_p	MAX-V-P Cohe_a	MAX-H-P Cohe_p	STATE LAYER	STIFFNESS	Z-LEVEL ZFO	PORE	E FAC-QS
1	0.000	--	--	--	--	--	REMOVED	--	339.0	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
2	0.000	--	--	--	--	--	REMOVED	--	338.8	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
3	0.000	--	--	--	--	--	REMOVED	--	338.6	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
4	0.000	--	--	--	--	--	REMOVED	--	338.4	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
5	0.000	--	--	--	--	--	REMOVED	--	338.2	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
6	0.000	--	--	--	--	--	REMOVED	--	338.0	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
7	0.000	--	--	--	--	--	REMOVED	--	337.8	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
8	0.000	--	--	--	--	--	REMOVED	--	337.6	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
9	0.000	--	--	--	--	--	REMOVED	--	337.4	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
10	0.000	--	--	--	--	--	REMOVED	--	337.2	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
11	0.000	--	--	--	--	--	REMOVED	--	337.0	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
12	0.000	--	--	--	--	--	REMOVED	--	336.8	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
13	0.000	--	--	--	--	--	REMOVED	--	336.6	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
14	0.000	--	--	--	--	--	REMOVED	--	336.4	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
15	0.000	--	--	--	--	--	REMOVED	--	336.2	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
16	0.000	--	--	--	--	--	REMOVED	--	336.0	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
17	0.000	--	--	--	--	--	REMOVED	--	335.8	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
18	0.000	--	--	--	--	--	REMOVED	--	335.6	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
19	0.000	--	--	--	--	--	REMOVED	--	335.4	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
20	0.000	--	--	--	--	--	REMOVED	--	335.2	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
21	0.000	--	--	--	--	--	REMOVED	--	335.0	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
22	0.000	--	--	--	--	--	REMOVED	--	334.8	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
23	0.000	--	--	--	--	--	REMOVED	--	334.6	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
24	0.000	--	--	--	--	--	REMOVED	--	334.4	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
25	0.000	--	--	--	--	--	REMOVED	--	334.2	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
26	0.000	--	--	--	--	--	REMOVED	--	334.0	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
27	0.000	--	--	--	--	--	REMOVED	--	333.8	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
28	0.000	--	--	--	--	--	REMOVED	--	333.6	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
29	0.000	--	--	--	--	--	REMOVED	--	333.4	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
30	0.000	--	--	--	--	--	REMOVED	--	333.2	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
31 D	5.212	7.6132E-03	8.0000E-03	26.06	146.9	82.53	PASSIVE	0.000	333.0	0.000	
1.000	1.000	26.06	0.000	0.000	8.000	8.000	Salt_1270_202756_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
32 D	7.332	7.3112E-03	4.008	36.66	148.9	83.66	PASSIVE	0.000	332.8	0.000	

```
1.000       1.000       36.66       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  33 D   9.451      7.0116E-03   8.008       47.25       150.9       84.79         PASSIVE   0.000       332.6       0.000
1.000       1.000       47.25       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  34 D   11.08      6.7147E-03   10.52       53.91       152.9       85.92         PASSIVE   0.000       332.4       1.488
1.000       1.000       55.40       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  35 D   12.19      6.4209E-03   11.46       56.39       154.9       87.05         PASSIVE   0.000       332.2       4.550
1.000       1.000       60.94       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  36 D   13.30      6.1306E-03   12.40       58.88       156.9       88.18         PASSIVE   0.000       332.0       7.612
1.000       1.000       66.49       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  37 D   14.41      5.8440E-03   13.33       61.36       158.9       89.31         PASSIVE   0.000       331.8       10.67
1.000       1.000       72.04       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  38 D   15.52      5.5613E-03   14.27       63.85       160.9       90.44         PASSIVE   0.000       331.6       13.74
1.000       1.000       77.59       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  39 D   16.63      5.2833E-03   15.21       66.34       162.9       91.56         PASSIVE   0.000       331.4       16.80
1.000       1.000       83.13       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  40 D   17.74      5.0101E-03   16.15       68.82       164.9       92.69         PASSIVE   0.000       331.2       19.86
1.000       1.000       88.68       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  41 D   33.43      4.7421E-03   17.09       144.2       166.9       144.2              V-C  1.6807E+04   331.0       22.92
1.000       1.000       167.2       0.000       0.000       40.00       40.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  42 D   33.27      4.4796E-03   19.48       141.3       169.4       141.3              V-C  1.6807E+04   330.8       25.03
1.000       1.000       166.4       0.000       0.000       40.00       40.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  43 D   33.13      4.2230E-03   21.88       138.5       171.9       138.5              V-C  1.6807E+04   330.6       27.13
1.000       1.000       165.6       0.000       0.000       40.00       40.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  44 D   33.00      3.9725E-03   24.27       135.8       174.4       135.8              V-C  1.6807E+04   330.4       29.24
1.000       1.000       165.0       0.000       0.000       40.00       40.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  45 D   32.89      3.7283E-03   26.67       133.1       176.9       133.1              V-C  1.6807E+04   330.2       31.35
1.000       1.000       164.4       0.000       0.000       40.00       40.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  46 D   32.79      3.4906E-03   29.06       130.5       179.5       130.5              V-C  1.6807E+04   330.0       33.45
1.000       1.000       164.0       0.000       0.000       40.00       40.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  47 D   32.72      3.2595E-03   31.45       128.0       182.0       128.0              V-C  1.6807E+04   329.8       35.56
1.000       1.000       163.6       0.000       0.000       40.00       40.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  48 D   32.66      3.0351E-03   33.85       125.7       184.5       125.7              V-C  1.6807E+04   329.6       37.66
1.000       1.000       163.3       0.000       0.000       40.00       40.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  49 D   32.63      2.8175E-03   36.24       123.4       187.0       123.4              V-C  1.6807E+04   329.4       39.77
1.000       1.000       163.2       0.000       0.000       40.00       40.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  50 D   32.62      2.6066E-03   38.64       121.2       189.5       121.2              V-C  1.6807E+04   329.2       41.88
1.000       1.000       163.1       0.000       0.000       40.00       40.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  51 D   32.63      2.4024E-03   41.03       119.1       192.0       119.1              V-C  1.6807E+04   329.0       43.98
1.000       1.000       163.1       0.000       0.000       40.00       40.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  52 D   32.66      2.2048E-03   43.42       117.2       194.5       117.2              V-C  1.6807E+04   328.8       46.09
1.000       1.000       163.3       0.000       0.000       40.00       40.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  53 D   32.70      2.0137E-03   45.82       115.3       197.0       115.3              V-C  1.6807E+04   328.6       48.20
1.000       1.000       163.5       0.000       0.000       40.00       40.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  54 D   32.77      1.8290E-03   48.21       113.6       199.5       113.6              V-C  1.6807E+04   328.4       50.30
1.000       1.000       163.9       0.000       0.000       40.00       40.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  55 D   32.86      1.6503E-03   50.61       111.9       202.0       111.9              V-C  1.6807E+04   328.2       52.41
1.000       1.000       164.3       0.000       0.000       40.00       40.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  56 D   32.97      1.4777E-03   53.00       110.3       204.5       110.3              V-C  1.6807E+04   328.0       54.52
1.000       1.000       164.9       0.000       0.000       40.00       40.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  57 D   33.10      1.3107E-03   55.39       108.9       207.0       108.9              V-C  1.6807E+04   327.8       56.62
1.000       1.000       165.5       0.000       0.000       40.00       40.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  58 D   33.24      1.1492E-03   57.79       107.5       209.5       107.5              V-C  1.6807E+04   327.6       58.73
1.000       1.000       166.2       0.000       0.000       40.00       40.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  59 D   33.40      9.9289E-04   60.18       106.2       212.0       106.2              V-C  1.6807E+04   327.4       60.83
1.000       1.000       167.0       0.000       0.000       40.00       40.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  60 D   32.66      8.4135E-04   62.58       100.3       214.5       107.2            UL-RL  5.0420E+04   327.2       62.94
1.000       1.000       163.3       0.000       0.000       40.00       40.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  61 D   31.88      6.9426E-04   64.97       94.36       217.0       108.5            UL-RL  5.0420E+04   327.0       65.05
1.000       1.000       159.4       0.000       0.000       40.00       40.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  62 D   31.15      5.5126E-04   67.36       88.58       219.5       109.7            UL-RL  5.0420E+04   326.8       67.15
1.000       1.000       155.7       0.000       0.000       40.00       40.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
```

63 D	30.45	4.1190E-04	69.76	82.98	222.0	111.0	UL-RL	5.0420E+04	326.6	69.26
1.000	1.000	152.2	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
64 D	29.78	2.7592E-04	72.15	77.54	224.5	112.2	UL-RL	5.0420E+04	326.4	71.37
1.000	1.000	148.9	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
65 D	29.14	1.4287E-04	74.55	72.24	227.0	113.5	UL-RL	5.0420E+04	326.2	73.47
1.000	1.000	145.7	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
66 D	28.53	1.2344E-05	76.94	67.06	229.5	114.7	UL-RL	5.0420E+04	326.0	75.58
1.000	1.000	142.6	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
67 D	27.93	-1.1602E-04	79.33	61.98	232.0	116.0	UL-RL	5.0420E+04	325.8	77.68
1.000	1.000	139.7	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
68 D	27.35	-2.4259E-04	81.73	56.98	234.5	117.2	UL-RL	5.0420E+04	325.6	79.79
1.000	1.000	136.8	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
69 D	26.79	-3.6770E-04	84.12	52.05	237.0	118.5	UL-RL	5.0420E+04	325.4	81.90
1.000	1.000	134.0	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
70 D	26.24	-4.9166E-04	86.52	47.18	239.5	119.7	UL-RL	5.0420E+04	325.2	84.00
1.000	1.000	131.2	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
71 D	25.69	-6.1481E-04	88.91	42.34	242.0	121.0	UL-RL	5.0420E+04	325.0	86.11
1.000	1.000	128.4	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
72 D	25.15	-7.3728E-04	91.30	37.53	244.5	122.2	UL-RL	5.0420E+04	324.8	88.22
1.000	1.000	125.7	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
73 D	24.61	-8.5935E-04	93.70	32.73	247.0	123.5	UL-RL	5.0420E+04	324.6	90.32
1.000	1.000	123.1	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
74 D	24.07	-9.8117E-04	96.09	27.95	249.5	124.7	UL-RL	5.0420E+04	324.4	92.43
1.000	1.000	120.4	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
75 D	23.54	-1.1029E-03	98.49	23.16	252.0	126.0	UL-RL	5.0420E+04	324.2	94.53
1.000	1.000	117.7	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
76 D	11.50	-1.2240E-03	100.9	18.39	254.5	127.2	UL-RL	5.0420E+04	324.0	96.63
1.000	1.000	115.0	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						

New Project

S T R E S S   R E S U L T S   F O R   G R O U P   N O.   3

Pali1500_253215   :
ELEMENT TYPE   2 NO.OF ELEMENTS. IN THIS GROUP   75
C U R R E N T   T I M E   I S   3.0000 SUBINCREMENT 00001/00001

 WALL2D ELEMENT

EL	TA	TB	MA	MB
1	-8.46490E-09	8.46490E-09	-8.44428E-10	-3.26808E-09
2	1.69381E-08	-1.69381E-08	4.11418E-09	-8.67475E-11
3	-3.12472E-09	3.12472E-09	1.46687E-09	-2.28420E-09
4	1.35166E-09	-1.35166E-09	2.08966E-09	-3.33982E-09
5	-8.15855E-09	8.15855E-09	2.64960E-09	-5.33551E-09
6	2.73189E-09	-2.73189E-09	4.77127E-09	-2.05219E-09
7	-5.91140E-09	5.91140E-09	1.71065E-09	-3.41697E-09
8	0.10151	-0.10151	3.56386E-09	2.03011E-02
9	0.54577	-0.54577	-2.03011E-02	0.12946
10	1.4060	-1.4060	-0.12946	0.41066
11	2.6823	-2.6823	-0.41066	0.94713
12	4.3746	-4.3746	-0.94713	1.8220
13	6.4829	-6.4829	-1.8220	3.1193
14	9.0074	-9.0074	-3.1193	4.9207
15	11.948	-11.948	-4.9207	7.3103
16	15.304	-15.304	-7.3103	10.371
17	19.077	-19.077	-10.371	14.187
18	23.265	-23.265	-14.187	18.840
19	27.870	-27.870	-18.840	24.414
20	32.890	-32.890	-24.414	30.992
21	40.600	-40.600	-30.992	39.116
22	48.873	-48.873	-39.116	48.890
23	57.708	-57.708	-48.890	60.432
24	67.107	-67.107	-60.432	73.853
25	77.069	-77.069	-73.853	89.267
26	87.594	-87.594	-89.267	106.79
27	98.682	-98.682	-106.79	126.52
28	110.33	-110.33	-126.52	148.59
29	122.55	-122.55	-148.59	173.11
30	135.32	-135.32	-173.11	200.17
31	143.45	-143.45	-200.17	228.87
32	150.02	-150.02	-228.87	258.87
33	155.04	-155.04	-258.87	289.88
34	158.99	-158.99	-289.88	321.67
35	162.39	-162.39	-321.67	354.15
36	165.25	-165.25	-354.15	387.20
37	167.56	-167.56	-387.20	420.73
38	169.32	-169.32	-420.73	454.60
39	170.54	-170.54	-454.60	488.70
40	171.21	-171.21	-488.70	522.95
41	146.70	-146.70	-522.95	552.29
42	123.04	-123.04	-552.29	576.89
43	100.23	-100.23	-576.89	596.94
44	78.240	-78.240	-596.94	612.59
45	57.062	-57.062	-612.59	624.00
46	36.674	-36.674	-624.00	631.34
47	17.059	-17.059	-631.34	634.75
48	-1.8059	1.8059	-634.75	634.39
49	-19.940	19.940	-634.39	630.40
50	-37.363	37.363	-630.40	622.93
51	-54.098	54.098	-622.93	612.11
52	-70.164	70.164	-612.11	598.08
53	-85.581	85.581	-598.08	580.96
54	-100.37	100.37	-580.96	560.88
55	-114.55	114.55	-560.88	537.97
56	-128.14	128.14	-537.97	512.34
57	-141.16	141.16	-512.34	484.10
58	-153.63	153.63	-484.10	453.38
59	-165.56	165.56	-453.38	420.27
60	-174.95	174.95	-420.27	385.28
61	-181.29	181.29	-385.28	349.02
62	-184.66	184.66	-349.02	312.07
63	-185.15	185.15	-312.07	275.04
64	-182.81	182.81	-275.04	238.48
65	-177.72	177.72	-238.48	202.93
66	-169.91	169.91	-202.93	168.95
67	-159.45	159.45	-168.95	137.06
68	-147.02	147.02	-137.06	107.66
69	-132.84	132.84	-107.66	81.088
70	-116.90	116.90	-81.088	57.695

```
   71 -99.338      99.338     -57.695      37.828
   72 -80.144      80.144     -37.828      21.799
   73 -59.327      59.327     -21.799      9.9334
   74 -36.891      36.891     -9.9334      2.5553
   75 -12.834      12.834     -2.5553    -7.13100E-11

ITER     0 RNORM = 0.000     RMNORM= 0.000
           RINORM=0.1779E+07 RIMNOR=0.1707E+08
           RENORM=0.4825E-04 REMNOR=0.8424E-17 RATIO =0.5208E-05 TOLER =0.1000E-03      CONVERGED !
           RFMAX = 185.1     RMMAX = 634.8
           RTSMAL=0.1000E-02 RMSMAL=0.1000E-02
           RDT   =0.1779E+07 RDR   =0.1707E+08
           RATIOT=0.5208E-05 RATIOR= 0.000
           MAX UN=0.2006E-07 IEQ=     5 NODE      3 DOF   1  Y-DISPL.F
           MIN UN=-.6327E-02 IEQ=   139 NODE     70 DOF   1  Y-DISPL.F
           NO. OF CONTACT CONSTRAINT VIOLATIONS     0


ITER     1 RNORM = 0.000     RMNORM= 0.000
           RINORM=0.1779E+07 RIMNOR=0.1707E+08
           RENORM=0.2657E-06 REMNOR=0.1485E-16 RATIO =0.3865E-06 TOLER =0.1000E-03      CONVERGED !
           RFMAX = 185.1     RMMAX = 634.8
           RTSMAL=0.1000E-02 RMSMAL=0.1000E-02
           RDT   =0.1779E+07 RDR   =0.1707E+08
           RATIOT=0.3865E-06 RATIOR= 0.000
           MAX UN=0.6645E-04 IEQ=    61 NODE     31 DOF   1  Y-DISPL.F
           MIN UN=-.2440E-03 IEQ=   149 NODE     75 DOF   1  Y-DISPL.F
           NO. OF CONTACT CONSTRAINT VIOLATIONS     0


ITER     2 RNORM = 0.000     RMNORM= 0.000
           RINORM=0.1779E+07 RIMNOR=0.1707E+08
           RENORM=0.1840E-06 REMNOR=0.1356E-16 RATIO =0.3216E-06 TOLER =0.1000E-03      CONVERGED !
           RFMAX = 185.1     RMMAX = 634.8
           RTSMAL=0.1000E-02 RMSMAL=0.1000E-02
           RDT   =0.1779E+07 RDR   =0.1707E+08
           RATIOT=0.3216E-06 RATIOR= 0.000
           MAX UN=0.2265E-03 IEQ=    81 NODE     41 DOF   1  Y-DISPL.F
           MIN UN=-.1914E-07 IEQ=     5 NODE      3 DOF   1  Y-DISPL.F
           NO. OF CONTACT CONSTRAINT VIOLATIONS     0
```

```
+-----------------------------------------------------------------------------------------------------------------------+
|                  PARATIEPLUS(TM)   NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*             |
|                                                                                                                       |
|                                                ParatiePlus                                                            |
|                                  Exe Time :28 January 2022   16:22:52                                                 |
+-----------------------------------------------------------------------------------------------------------------------+
New Project
SOLUTION REACHED USING     2 ITERATIONS ON   80

P R I N T   O U T   F O R   T I M E   S T E P    4     ( AT TIME   4.000     ) SUBINCREMENT 00001/00001

PRINT OUT OF ACTIVE COMPONENTS (FIXED NODES ARE NOT PRINTED OUT)

          Y-DISPL.F        X-ROT. F
            02               04
    1   1.7003627E-02  -1.5734278E-03
    2   1.6688942E-02  -1.5734278E-03
    3   1.6374256E-02  -1.5734278E-03
    4   1.6059570E-02  -1.5734278E-03
    5   1.5744885E-02  -1.5734278E-03
    6   1.5430042E-02  -1.5734278E-03
    7   1.5115356E-02  -1.5734278E-03
    8   1.4800671E-02  -1.5734278E-03
    9   1.4482951E-02  -1.5734273E-03
   10   1.4168351E-02  -1.5734233E-03
   11   1.3853753E-02  -1.5734089E-03
   12   1.3539160E-02  -1.5733729E-03
   13   1.3224577E-02  -1.5732994E-03
   14   1.2909858E-02  -1.5731682E-03
   15   1.2595329E-02  -1.5729547E-03
   16   1.2280854E-02  -1.5726300E-03
   17   1.1966458E-02  -1.5721607E-03
   18   1.1652173E-02  -1.5715088E-03
   19   1.1338040E-02  -1.5706321E-03
   20   1.1024109E-02  -1.5694839E-03
   21   1.0712109E-02  -1.5680131E-03
   22   1.0398543E-02  -1.5661511E-03
   23   1.0085552E-02  -1.5638149E-03
   24   9.7730834E-03  -1.5609129E-03
   25   9.4612599E-03  -1.5573482E-03
   26   9.1502241E-03  -1.5530180E-03
   27   8.8401398E-03  -1.5478136E-03
   28   8.5311934E-03  -1.5416203E-03
   29   8.2235946E-03  -1.5343173E-03
   30   7.9174252E-03  -1.5257732E-03
   31   7.6132520E-03  -1.5158641E-03
   32   7.3112072E-03  -1.5044749E-03
   33   7.0115948E-03  -1.4915276E-03
   34   6.7147330E-03  -1.4769606E-03
   35   6.4209506E-03  -1.4607265E-03
   36   6.1305850E-03  -1.4427861E-03
   37   5.8439810E-03  -1.4231062E-03
   38   5.5613490E-03  -1.4016483E-03
   39   5.2833275E-03  -1.3784120E-03
   40   5.0101334E-03  -1.3533714E-03
   41   4.7420630E-03  -1.3265163E-03
   42   4.4795914E-03  -1.2979734E-03
   43   4.2229758E-03  -1.2679984E-03
   44   3.9724777E-03  -1.2368380E-03
   45   3.7283104E-03  -1.2047301E-03
   46   3.4906402E-03  -1.1719039E-03
   47   3.2594748E-03  -1.1385633E-03
   48   3.0351233E-03  -1.1049540E-03
   49   2.8175052E-03  -1.0712638E-03
   50   2.6066168E-03  -1.0376890E-03
   51   2.4024160E-03  -1.0044184E-03
   52   2.2048237E-03  -9.7163342E-04
   53   2.0137253E-03  -9.3950819E-04
   54   1.8289719E-03  -9.0820985E-04
   55   1.6502944E-03  -8.7788388E-04
   56   1.4776581E-03  -8.4871439E-04
   57   1.3107293E-03  -8.2083343E-04
   58   1.1492361E-03  -7.9438226E-04
   59   9.9287874E-04  -7.6949620E-04
   60   8.4133126E-04  -7.4630477E-04
   61   6.9424295E-04  -7.2492116E-04
   62   5.5124335E-04  -7.0542886E-04
   63   4.1187974E-04  -6.8787116E-04
   64   2.7590010E-04  -6.7228610E-04
   65   1.4284171E-04  -6.5865457E-04
   66   1.2317308E-05  -6.4693712E-04
   67  -1.1604954E-04  -6.3706527E-04
   68  -2.4261873E-04  -6.2894203E-04
   69  -3.6772818E-04  -6.2244588E-04
   70  -4.9168949E-04  -6.1743550E-04
   71  -6.1484550E-04  -6.1374947E-04
   72  -7.3732092E-04  -6.1121367E-04
   73  -8.5938786E-04  -6.0963080E-04
   74  -9.8121596E-04  -6.0878842E-04
```

```
75  -1.1029306E-03  -6.0845688E-04
76  -1.2240621E-03  -6.0838935E-04
```

```
+-----------------------------------------------------------------------------------------------------------------------------+
|                  PARATIEPLUS(TM)   NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*                    |
|                                                                                                                             |
|                                              ParatiePlus                                                                    |
|                                    Exe Time :28 January 2022   16:22:52                                                     |
+-----------------------------------------------------------------------------------------------------------------------------+
New Project


S T R E S S   R E S U L T S   F O R   G R O U P   N O.   1

0_L                                                    :
ELEMENT TYPE    5 NO.OF ELEMENTS. IN THIS GROUP   76
C U R R E N T   T I M E   I S      4.0000 SUBINCREMENT 00001/00001

 HARDENING 2D SOIL ELEMENT

 ****** TOTAL STRESS FORMULATION *****

  EL *   FORCE     DISPL-Y  VERTICAL-P  HORIZON.-P     MAX-V-P     MAX-H-P          STATE   STIFFNESS Z-LEVEL      PORE       E FAC-
TOR    UFACTOR       Peq          Su_a        Su_p        Cohe_a      Cohe_p     LAYER                                ZFO         QS
QSL          ZD          ZPL          Kz
 ------------------------------------------------------------------------------------------------------------------------------------
------------------------------------------------------------------------------------------------------------------------------------
-----------------------------------------------
   1 D   0.000     -1.7004E-02   0.000       0.000       76.00       38.00          ACTIVE   0.000       339.0       0.000
1.000       1.000       0.000       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   2 D   0.000     -1.6689E-02   3.800       0.000       79.80       39.90          ACTIVE   0.000       338.8       0.000
1.000       1.000       0.000       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   3 D   0.000     -1.6374E-02   7.600       0.000       83.60       41.80          ACTIVE   0.000       338.6       0.000
1.000       1.000       0.000       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   4 D   0.000     -1.6060E-02   11.40       0.000       87.40       43.70          ACTIVE   0.000       338.4       0.000
1.000       1.000       0.000       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   5 D   0.000     -1.5745E-02   15.20       0.000       91.20       45.60          ACTIVE   0.000       338.2       0.000
1.000       1.000       0.000       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   6 D   0.000     -1.5430E-02   19.00       0.000       95.00       47.50          ACTIVE   0.000       338.0       0.000
1.000       1.000       0.000       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   7 D   0.000     -1.5115E-02   22.80       0.000       98.80       49.40          ACTIVE   0.000       337.8       0.000
1.000       1.000       0.000       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   8 D  0.1015     -1.4801E-02   26.60      0.5075       102.6       51.30          ACTIVE   0.000       337.6       0.000
1.000       1.000      0.5075       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   9 D  0.4443     -1.4483E-02   30.07       1.893       105.7       52.95          ACTIVE   0.000       337.4       0.3288
1.000       1.000       2.221       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  10 D  0.8603     -1.4168E-02   32.93       3.034       107.5       53.84          ACTIVE   0.000       337.2       1.267
1.000       1.000       4.301       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  11 D   1.276     -1.3854E-02   35.80       4.176       109.3       54.73          ACTIVE   0.000       337.0       2.205
1.000       1.000       6.381       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  12 D   1.692     -1.3539E-02   38.66       5.318       111.1       55.62          ACTIVE   0.000       336.8       3.143
1.000       1.000       8.461       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  13 D   2.108     -1.3225E-02   41.52       6.460       112.9       56.52          ACTIVE   0.000       336.6       4.081
1.000       1.000       10.54       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  14 D   2.524     -1.2910E-02   44.38       7.603       114.7       57.41          ACTIVE   0.000       336.4       5.020
1.000       1.000       12.62       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  15 D   2.940     -1.2595E-02   47.25       8.744       116.4       58.30          ACTIVE   0.000       336.2       5.958
1.000       1.000       14.70       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  16 D   3.356     -1.2281E-02   50.11       9.886       118.2       59.19          ACTIVE   0.000       336.0       6.896
1.000       1.000       16.78       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  17 D   3.772     -1.1966E-02   52.97       11.03       120.0       60.09          ACTIVE   0.000       335.8       7.834
1.000       1.000       18.86       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  18 D   4.188     -1.1652E-02   55.83       12.17       121.8       60.98          ACTIVE   0.000       335.6       8.772
1.000       1.000       20.94       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  19 D   4.604     -1.1338E-02   58.69       13.31       123.6       61.87          ACTIVE   0.000       335.4       9.710
1.000       1.000       23.02       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  20 D   5.021     -1.1024E-02   61.56       14.45       125.4       62.77          ACTIVE   0.000       335.2       10.65
1.000       1.000       25.10       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  21 D   7.709     -1.0712E-02   64.42       26.96       127.2       71.53          ACTIVE   0.000       335.0       11.59
1.000       1.000       38.55       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  22 D   8.273     -1.0399E-02   67.48       28.84       129.2       72.65          ACTIVE   0.000       334.8       12.53
```

```
1.000       1.000       41.36       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  23 D   8.836     -1.0086E-02   70.54       30.72       131.2       73.76         ACTIVE   0.000       334.6       13.46
1.000       1.000       44.18       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  24 D   9.399     -9.7731E-03   73.60       32.59       133.2       74.88         ACTIVE   0.000       334.4       14.40
1.000       1.000       46.99       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  25 D   9.962     -9.4613E-03   76.67       34.47       135.2       76.00         ACTIVE   0.000       334.2       15.34
1.000       1.000       49.81       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  26 D   10.52     -9.1502E-03   79.73       36.35       137.1       77.11         ACTIVE   0.000       334.0       16.28
1.000       1.000       52.62       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  27 D   11.09     -8.8401E-03   82.79       38.22       139.1       78.23         ACTIVE   0.000       333.8       17.22
1.000       1.000       55.44       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  28 D   11.65     -8.5312E-03   85.85       40.10       141.1       79.35         ACTIVE   0.000       333.6       18.15
1.000       1.000       58.25       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  29 D   12.21     -8.2236E-03   88.91       41.98       143.1       80.46         ACTIVE   0.000       333.4       19.09
1.000       1.000       61.07       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  30 D   12.78     -7.9174E-03   91.98       43.85       145.1       81.58         ACTIVE   0.000       333.2       20.03
1.000       1.000       63.89       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  31 D   13.34     -7.6133E-03   95.04       45.73       147.1       82.70         ACTIVE   0.000       333.0       20.97
1.000       1.000       66.70       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  32 D   13.90     -7.3112E-03   98.10       47.61       149.1       83.81         ACTIVE   0.000       332.8       21.91
1.000       1.000       69.52       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  33 D   14.47     -7.0116E-03   101.2       49.49       151.1       84.93         ACTIVE   0.000       332.6       22.85
1.000       1.000       72.33       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  34 D   15.03     -6.7147E-03   104.2       51.36       153.1       86.05         ACTIVE   0.000       332.4       23.78
1.000       1.000       75.15       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  35 D   15.59     -6.4210E-03   107.3       53.24       155.1       87.17         ACTIVE   0.000       332.2       24.72
1.000       1.000       77.96       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  36 D   16.16     -6.1306E-03   110.3       55.12       157.1       88.28         ACTIVE   0.000       332.0       25.66
1.000       1.000       80.78       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  37 D   16.72     -5.8440E-03   113.4       56.99       159.0       89.40         ACTIVE   0.000       331.8       26.60
1.000       1.000       83.59       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  38 D   17.28     -5.5613E-03   116.5       58.87       161.0       90.52         ACTIVE   0.000       331.6       27.54
1.000       1.000       86.41       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  39 D   17.84     -5.2833E-03   119.5       60.75       163.0       91.63         ACTIVE   0.000       331.4       28.47
1.000       1.000       89.22       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  40 D   18.41     -5.0101E-03   122.6       62.63       165.0       92.75         ACTIVE   0.000       331.2       29.41
1.000       1.000       92.04       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  41 D   8.919     -4.7421E-03   125.7       14.24       167.0       83.51         ACTIVE   0.000       331.0       30.35
1.000       1.000       44.60       0.000       0.000       40.00       40.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  42 D   9.617     -4.4796E-03   128.3       15.84       169.5       84.76         ACTIVE   0.000       330.8       32.25
1.000       1.000       48.08       0.000       0.000       40.00       40.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  43 D   10.31     -4.2230E-03   130.9       17.43       172.0       86.01         ACTIVE   0.000       330.6       34.14
1.000       1.000       51.57       0.000       0.000       40.00       40.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  44 D   11.01     -3.9725E-03   133.5       19.02       174.5       87.26         ACTIVE   0.000       330.4       36.03
1.000       1.000       55.06       0.000       0.000       40.00       40.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  45 D   11.71     -3.7283E-03   136.1       20.61       177.0       88.51         ACTIVE   0.000       330.2       37.93
1.000       1.000       58.54       0.000       0.000       40.00       40.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  46 D   12.41     -3.4906E-03   138.7       22.21       179.5       89.76         ACTIVE   0.000       330.0       39.82
1.000       1.000       62.03       0.000       0.000       40.00       40.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  47 D   13.10     -3.2595E-03   141.3       23.80       182.0       91.01         ACTIVE   0.000       329.8       41.72
1.000       1.000       65.52       0.000       0.000       40.00       40.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  48 D   13.80     -3.0351E-03   143.9       25.39       184.5       92.26         ACTIVE   0.000       329.6       43.61
1.000       1.000       69.00       0.000       0.000       40.00       40.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  49 D   14.50     -2.8175E-03   146.5       26.98       187.0       93.51         ACTIVE   0.000       329.4       45.50
1.000       1.000       72.49       0.000       0.000       40.00       40.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  50 D   15.19     -2.6066E-03   149.1       28.58       189.5       94.76         ACTIVE   0.000       329.2       47.40
1.000       1.000       75.97       0.000       0.000       40.00       40.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  51 D   15.89     -2.4024E-03   151.7       30.17       192.0       96.01          UL-RL  5.5782E+04   329.0       49.29
1.000       1.000       79.46       0.000       0.000       40.00       40.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  52 D   16.59     -2.2048E-03   154.3       31.76       194.5       97.26          UL-RL  5.5782E+04   328.8       51.19
1.000       1.000       82.95       0.000       0.000       40.00       40.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
```

53 D	17.29	-2.0137E-03	156.9	33.35	197.0	98.51	UL-RL	5.5782E+04	328.6	53.08
1.000	1.000	86.43	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
54 D	17.98	-1.8290E-03	159.5	34.95	199.5	99.75	UL-RL	5.5782E+04	328.4	54.97
1.000	1.000	89.92	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
55 D	18.68	-1.6503E-03	162.1	36.54	202.0	101.0	UL-RL	5.5782E+04	328.2	56.87
1.000	1.000	93.41	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
56 D	19.38	-1.4777E-03	164.8	38.13	204.5	102.3	UL-RL	5.5782E+04	328.0	58.76
1.000	1.000	96.89	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
57 D	20.08	-1.3107E-03	167.4	39.72	207.0	103.5	UL-RL	5.5782E+04	327.8	60.66
1.000	1.000	100.4	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
58 D	20.77	-1.1492E-03	170.0	41.32	209.5	104.8	UL-RL	5.5782E+04	327.6	62.55
1.000	1.000	103.9	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
59 D	21.47	-9.9288E-04	172.6	42.91	212.0	106.0	UL-RL	5.5782E+04	327.4	64.44
1.000	1.000	107.4	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
60 D	23.27	-8.4133E-04	175.2	49.99	214.5	107.3	UL-RL	5.5782E+04	327.2	66.34
1.000	1.000	116.3	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
61 D	25.54	-6.9424E-04	177.8	59.48	217.0	108.5	UL-RL	5.5782E+04	327.0	68.23
1.000	1.000	127.7	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
62 D	27.77	-5.5124E-04	180.4	68.74	219.5	109.7	UL-RL	5.5782E+04	326.8	70.12
1.000	1.000	138.9	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
63 D	29.96	-4.1188E-04	183.0	77.80	222.0	111.0	UL-RL	5.5782E+04	326.6	72.02
1.000	1.000	149.8	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
64 D	32.12	-2.7590E-04	185.6	86.67	224.5	112.2	UL-RL	5.5782E+04	326.4	73.91
1.000	1.000	160.6	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
65 D	34.24	-1.4284E-04	188.2	95.38	227.0	113.5	UL-RL	5.5782E+04	326.2	75.81
1.000	1.000	171.2	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
66 D	36.33	-1.2317E-05	190.8	103.9	229.5	114.7	UL-RL	5.5782E+04	326.0	77.70
1.000	1.000	181.6	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
67 D	38.40	1.1605E-04	193.4	112.4	232.0	116.0	UL-RL	5.5782E+04	325.8	79.59
1.000	1.000	192.0	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
68 D	39.78	2.4262E-04	196.0	117.4	234.5	118.9	UL-RL	5.5782E+04	325.6	81.49
1.000	1.000	198.9	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
69 D	40.98	3.6773E-04	198.6	121.5	237.0	122.2	UL-RL	5.5782E+04	325.4	83.38
1.000	1.000	204.9	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
70 D	42.16	4.9169E-04	201.2	125.5	239.5	125.6	UL-RL	5.5782E+04	325.2	85.28
1.000	1.000	210.8	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
71 D	43.25	6.1485E-04	203.8	129.1	242.0	129.1	UL-RL	5.5782E+04	325.0	87.17
1.000	1.000	216.3	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
72 D	44.34	7.3732E-04	206.5	132.7	244.5	132.7	V-C	1.8594E+04	324.8	89.06
1.000	1.000	221.7	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
73 D	45.43	8.5939E-04	209.1	136.2	247.0	136.2	V-C	1.8594E+04	324.6	90.96
1.000	1.000	227.1	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
74 D	46.51	9.8122E-04	211.7	139.7	249.5	139.7	V-C	1.8594E+04	324.4	92.85
1.000	1.000	232.6	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
75 D	47.60	1.1029E-03	214.3	143.2	252.0	143.2	V-C	1.8594E+04	324.2	94.75
1.000	1.000	238.0	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
76 D	24.34	1.2241E-03	216.9	146.7	254.5	146.7	V-C	1.8594E+04	324.0	96.63
1.000	1.000	243.4	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						

```
+-----------------------------------------------------------------------------------------------------------------------+
|                  PARATIEPLUS(TM)   NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*             |
|                                                                                                                       |
|                                            ParatiePlus                                                                |
|                                  Exe Time :28 January 2022   16:22:52                                                 |
+-----------------------------------------------------------------------------------------------------------------------+
New Project


S T R E S S   R E S U L T S   F O R   G R O U P   N O.   2

0_R                                                    :
ELEMENT TYPE    5 NO.OF ELEMENTS. IN THIS GROUP   76
C U R R E N T   T I M E   I S      4.0000 SUBINCREMENT 00001/00001

 HARDENING 2D SOIL ELEMENT

 ****** TOTAL STRESS FORMULATION *****

  EL *   FORCE     DISPL-Y  VERTICAL-P  HORIZON.-P     MAX-V-P     MAX-H-P          STATE   STIFFNESS Z-LEVEL      PORE       E FAC-
TOR    UFACTOR       Peq          Su_a        Su_p        Cohe_a      Cohe_p     LAYER                              ZFO         QS
QSL         ZD          ZPL          Kz
 ------------------------------------------------------------------------------------------------------------------------------
------------------------------------------------------------------------------------------------------------------------------
-----------------------------------------------
   1     0.000         --          --          --          --          --         REMOVED     --        339.0       0.000
1.000       1.000       0.000       0.000       0.000       0.000       0.000     not available
   2     0.000         --          --          --          --          --         REMOVED     --        338.8       0.000
1.000       1.000       0.000       0.000       0.000       0.000       0.000     not available
   3     0.000         --          --          --          --          --         REMOVED     --        338.6       0.000
1.000       1.000       0.000       0.000       0.000       0.000       0.000     not available
   4     0.000         --          --          --          --          --         REMOVED     --        338.4       0.000
1.000       1.000       0.000       0.000       0.000       0.000       0.000     not available
   5     0.000         --          --          --          --          --         REMOVED     --        338.2       0.000
1.000       1.000       0.000       0.000       0.000       0.000       0.000     not available
   6     0.000         --          --          --          --          --         REMOVED     --        338.0       0.000
1.000       1.000       0.000       0.000       0.000       0.000       0.000     not available
   7     0.000         --          --          --          --          --         REMOVED     --        337.8       0.000
1.000       1.000       0.000       0.000       0.000       0.000       0.000     not available
   8     0.000         --          --          --          --          --         REMOVED     --        337.6       0.000
1.000       1.000       0.000       0.000       0.000       0.000       0.000     not available
   9     0.000         --          --          --          --          --         REMOVED     --        337.4       0.000
1.000       1.000       0.000       0.000       0.000       0.000       0.000     not available
  10     0.000         --          --          --          --          --         REMOVED     --        337.2       0.000
1.000       1.000       0.000       0.000       0.000       0.000       0.000     not available
  11     0.000         --          --          --          --          --         REMOVED     --        337.0       0.000
1.000       1.000       0.000       0.000       0.000       0.000       0.000     not available
  12     0.000         --          --          --          --          --         REMOVED     --        336.8       0.000
1.000       1.000       0.000       0.000       0.000       0.000       0.000     not available
  13     0.000         --          --          --          --          --         REMOVED     --        336.6       0.000
1.000       1.000       0.000       0.000       0.000       0.000       0.000     not available
  14     0.000         --          --          --          --          --         REMOVED     --        336.4       0.000
1.000       1.000       0.000       0.000       0.000       0.000       0.000     not available
  15     0.000         --          --          --          --          --         REMOVED     --        336.2       0.000
1.000       1.000       0.000       0.000       0.000       0.000       0.000     not available
  16     0.000         --          --          --          --          --         REMOVED     --        336.0       0.000
1.000       1.000       0.000       0.000       0.000       0.000       0.000     not available
  17     0.000         --          --          --          --          --         REMOVED     --        335.8       0.000
1.000       1.000       0.000       0.000       0.000       0.000       0.000     not available
  18     0.000         --          --          --          --          --         REMOVED     --        335.6       0.000
1.000       1.000       0.000       0.000       0.000       0.000       0.000     not available
  19     0.000         --          --          --          --          --         REMOVED     --        335.4       0.000
1.000       1.000       0.000       0.000       0.000       0.000       0.000     not available
  20     0.000         --          --          --          --          --         REMOVED     --        335.2       0.000
1.000       1.000       0.000       0.000       0.000       0.000       0.000     not available
  21     0.000         --          --          --          --          --         REMOVED     --        335.0       0.000
1.000       1.000       0.000       0.000       0.000       0.000       0.000     not available
  22     0.000         --          --          --          --          --         REMOVED     --        334.8       0.000
1.000       1.000       0.000       0.000       0.000       0.000       0.000     not available
  23     0.000         --          --          --          --          --         REMOVED     --        334.6       0.000
1.000       1.000       0.000       0.000       0.000       0.000       0.000     not available
  24     0.000         --          --          --          --          --         REMOVED     --        334.4       0.000
1.000       1.000       0.000       0.000       0.000       0.000       0.000     not available
  25     0.000         --          --          --          --          --         REMOVED     --        334.2       0.000
1.000       1.000       0.000       0.000       0.000       0.000       0.000     not available
  26     0.000         --          --          --          --          --         REMOVED     --        334.0       0.000
1.000       1.000       0.000       0.000       0.000       0.000       0.000     not available
  27     0.000         --          --          --          --          --         REMOVED     --        333.8       0.000
1.000       1.000       0.000       0.000       0.000       0.000       0.000     not available
  28     0.000         --          --          --          --          --         REMOVED     --        333.6       0.000
1.000       1.000       0.000       0.000       0.000       0.000       0.000     not available
  29     0.000         --          --          --          --          --         REMOVED     --        333.4       0.000
1.000       1.000       0.000       0.000       0.000       0.000       0.000     not available
  30     0.000         --          --          --          --          --         REMOVED     --        333.2       0.000
1.000       1.000       0.000       0.000       0.000       0.000       0.000     not available
  31 D   5.212      7.6133E-03  8.0000E-03   26.06       146.9       82.53         PASSIVE   0.000       333.0       0.000
1.000       1.000       26.06       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  32 D   7.332      7.3112E-03   4.008       36.66       148.9       83.66         PASSIVE   0.000       332.8       0.000
```

1.000	1.000	36.66	0.000	0.000	8.000	8.000	Salt_1270_202756_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
33 D	9.451	7.0116E-03	8.008	47.25	150.9	84.79	PASSIVE	0.000	332.6		0.000
1.000	1.000	47.25	0.000	0.000	8.000	8.000	Salt_1270_202756_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
34 D	11.08	6.7147E-03	10.52	53.91	152.9	85.92	PASSIVE	0.000	332.4		1.488
1.000	1.000	55.40	0.000	0.000	8.000	8.000	Salt_1270_202756_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
35 D	12.19	6.4210E-03	11.46	56.39	154.9	87.05	PASSIVE	0.000	332.2		4.550
1.000	1.000	60.94	0.000	0.000	8.000	8.000	Salt_1270_202756_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
36 D	13.30	6.1306E-03	12.40	58.88	156.9	88.18	PASSIVE	0.000	332.0		7.612
1.000	1.000	66.49	0.000	0.000	8.000	8.000	Salt_1270_202756_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
37 D	14.41	5.8440E-03	13.33	61.36	158.9	89.31	PASSIVE	0.000	331.8		10.67
1.000	1.000	72.04	0.000	0.000	8.000	8.000	Salt_1270_202756_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
38 D	15.52	5.5613E-03	14.27	63.85	160.9	90.44	PASSIVE	0.000	331.6		13.74
1.000	1.000	77.59	0.000	0.000	8.000	8.000	Salt_1270_202756_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
39 D	16.63	5.2833E-03	15.21	66.34	162.9	91.56	PASSIVE	0.000	331.4		16.80
1.000	1.000	83.13	0.000	0.000	8.000	8.000	Salt_1270_202756_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
40 D	17.74	5.0101E-03	16.15	68.82	164.9	92.69	PASSIVE	0.000	331.2		19.86
1.000	1.000	88.68	0.000	0.000	8.000	8.000	Salt_1270_202756_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
41 D	33.43	4.7421E-03	17.09	144.2	166.9	144.2	V-C	1.6807E+04	331.0		22.92
1.000	1.000	167.2	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
42 D	33.27	4.4796E-03	19.48	141.3	169.4	141.3	V-C	1.6807E+04	330.8		25.03
1.000	1.000	166.4	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
43 D	33.13	4.2230E-03	21.88	138.5	171.9	138.5	V-C	1.6807E+04	330.6		27.13
1.000	1.000	165.6	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
44 D	33.00	3.9725E-03	24.27	135.8	174.4	135.8	V-C	1.6807E+04	330.4		29.24
1.000	1.000	165.0	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
45 D	32.89	3.7283E-03	26.67	133.1	176.9	133.1	V-C	1.6807E+04	330.2		31.35
1.000	1.000	164.4	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
46 D	32.79	3.4906E-03	29.06	130.5	179.5	130.5	V-C	1.6807E+04	330.0		33.45
1.000	1.000	164.0	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
47 D	32.72	3.2595E-03	31.45	128.0	182.0	128.0	V-C	1.6807E+04	329.8		35.56
1.000	1.000	163.6	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
48 D	32.66	3.0351E-03	33.85	125.7	184.5	125.7	V-C	1.6807E+04	329.6		37.66
1.000	1.000	163.3	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
49 D	32.63	2.8175E-03	36.24	123.4	187.0	123.4	V-C	1.6807E+04	329.4		39.77
1.000	1.000	163.2	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
50 D	32.62	2.6066E-03	38.64	121.2	189.5	121.2	V-C	1.6807E+04	329.2		41.88
1.000	1.000	163.1	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
51 D	32.63	2.4024E-03	41.03	119.1	192.0	119.1	UL-RL	5.0420E+04	329.0		43.98
1.000	1.000	163.1	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
52 D	32.66	2.2048E-03	43.42	117.2	194.5	117.2	UL-RL	5.0420E+04	328.8		46.09
1.000	1.000	163.3	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
53 D	32.70	2.0137E-03	45.82	115.3	197.0	115.3	UL-RL	5.0420E+04	328.6		48.20
1.000	1.000	163.5	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
54 D	32.77	1.8290E-03	48.21	113.6	199.5	113.6	UL-RL	5.0420E+04	328.4		50.30
1.000	1.000	163.9	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
55 D	32.86	1.6503E-03	50.61	111.9	202.0	111.9	UL-RL	5.0420E+04	328.2		52.41
1.000	1.000	164.3	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
56 D	32.97	1.4777E-03	53.00	110.3	204.5	110.3	UL-RL	5.0420E+04	328.0		54.52
1.000	1.000	164.9	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
57 D	33.10	1.3107E-03	55.39	108.9	207.0	108.9	UL-RL	5.0420E+04	327.8		56.62
1.000	1.000	165.5	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
58 D	33.24	1.1492E-03	57.79	107.5	209.5	107.5	UL-RL	5.0420E+04	327.6		58.73
1.000	1.000	166.2	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
59 D	33.40	9.9288E-04	60.18	106.2	212.0	106.2	UL-RL	5.0420E+04	327.4		60.83
1.000	1.000	167.0	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
60 D	32.66	8.4133E-04	62.58	100.3	214.5	107.2	UL-RL	5.0420E+04	327.2		62.94
1.000	1.000	163.3	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
61 D	31.88	6.9424E-04	64.97	94.36	217.0	108.5	UL-RL	5.0420E+04	327.0		65.05
1.000	1.000	159.4	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
62 D	31.15	5.5124E-04	67.36	88.58	219.5	109.7	UL-RL	5.0420E+04	326.8		67.15
1.000	1.000	155.7	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							

63 D	30.45	4.1188E-04	69.76	82.98	222.0	111.0	UL-RL	5.0420E+04	326.6	69.26
1.000	1.000	152.2	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
64 D	29.78	2.7590E-04	72.15	77.54	224.5	112.2	UL-RL	5.0420E+04	326.4	71.37
1.000	1.000	148.9	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
65 D	29.14	1.4284E-04	74.55	72.24	227.0	113.5	UL-RL	5.0420E+04	326.2	73.47
1.000	1.000	145.7	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
66 D	28.53	1.2317E-05	76.94	67.05	229.5	114.7	UL-RL	5.0420E+04	326.0	75.58
1.000	1.000	142.6	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
67 D	27.93	-1.1605E-04	79.33	61.97	232.0	116.0	UL-RL	5.0420E+04	325.8	77.68
1.000	1.000	139.7	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
68 D	27.35	-2.4262E-04	81.73	56.98	234.5	117.2	UL-RL	5.0420E+04	325.6	79.79
1.000	1.000	136.8	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
69 D	26.79	-3.6773E-04	84.12	52.05	237.0	118.5	UL-RL	5.0420E+04	325.4	81.90
1.000	1.000	133.9	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
70 D	26.24	-4.9169E-04	86.52	47.18	239.5	119.7	UL-RL	5.0420E+04	325.2	84.00
1.000	1.000	131.2	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
71 D	25.69	-6.1485E-04	88.91	42.34	242.0	121.0	UL-RL	5.0420E+04	325.0	86.11
1.000	1.000	128.4	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
72 D	25.15	-7.3732E-04	91.30	37.53	244.5	122.2	UL-RL	5.0420E+04	324.8	88.22
1.000	1.000	125.7	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
73 D	24.61	-8.5939E-04	93.70	32.73	247.0	123.5	UL-RL	5.0420E+04	324.6	90.32
1.000	1.000	123.1	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
74 D	24.07	-9.8122E-04	96.09	27.94	249.5	124.7	UL-RL	5.0420E+04	324.4	92.43
1.000	1.000	120.4	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
75 D	23.54	-1.1029E-03	98.49	23.16	252.0	126.0	UL-RL	5.0420E+04	324.2	94.53
1.000	1.000	117.7	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
76 D	11.50	-1.2241E-03	100.9	18.39	254.5	127.2	UL-RL	5.0420E+04	324.0	96.63
1.000	1.000	115.0	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						

New Project

S T R E S S   R E S U L T S   F O R   G R O U P   N O.   3

Pali1500_253215   :
ELEMENT TYPE   2 NO.OF ELEMENTS. IN THIS GROUP   75
C U R R E N T   T I M E   I S   4.0000 SUBINCREMENT 00001/00001

 WALL2D ELEMENT

EL	TA	TB	MA	MB
1	-9.32214E-09	9.32214E-09	-9.34236E-10	-3.34972E-09
2	-3.40114E-09	3.40114E-09	2.08026E-09	-2.12067E-09
3	1.57429E-08	-1.57429E-08	3.35363E-09	-3.97442E-10
4	4.27525E-12	-4.27525E-12	1.97534E-09	-3.49498E-09
5	-7.66914E-09	7.66914E-09	2.72307E-09	-5.31104E-09
6	-2.17099E-09	2.17099E-09	4.32999E-09	-2.59149E-09
7	5.23910E-09	-5.23910E-09	2.89513E-09	-2.37136E-09
8	0.10151	-0.10151	2.31412E-09	2.03011E-02
9	0.54577	-0.54577	-2.03011E-02	0.12946
10	1.4060	-1.4060	-0.12946	0.41066
11	2.6823	-2.6823	-0.41066	0.94713
12	4.3746	-4.3746	-0.94713	1.8220
13	6.4829	-6.4829	-1.8220	3.1193
14	9.0074	-9.0074	-3.1193	4.9207
15	11.948	-11.948	-4.9207	7.3103
16	15.304	-15.304	-7.3103	10.371
17	19.077	-19.077	-10.371	14.187
18	23.265	-23.265	-14.187	18.840
19	27.870	-27.870	-18.840	24.414
20	32.890	-32.890	-24.414	30.992
21	40.600	-40.600	-30.992	39.116
22	48.873	-48.873	-39.116	48.890
23	57.708	-57.708	-48.890	60.432
24	67.107	-67.107	-60.432	73.853
25	77.069	-77.069	-73.853	89.267
26	87.594	-87.594	-89.267	106.79
27	98.682	-98.682	-106.79	126.52
28	110.33	-110.33	-126.52	148.59
29	122.55	-122.55	-148.59	173.11
30	135.32	-135.32	-173.11	200.17
31	143.45	-143.45	-200.17	228.87
32	150.02	-150.02	-228.87	258.87
33	155.04	-155.04	-258.87	289.88
34	158.99	-158.99	-289.88	321.67
35	162.39	-162.39	-321.67	354.15
36	165.25	-165.25	-354.15	387.20
37	167.56	-167.56	-387.20	420.73
38	169.32	-169.32	-420.73	454.60
39	170.54	-170.54	-454.60	488.70
40	171.21	-171.21	-488.70	522.95
41	146.70	-146.70	-522.95	552.29
42	123.04	-123.04	-552.29	576.89
43	100.23	-100.23	-576.89	596.94
44	78.239	-78.239	-596.94	612.59
45	57.061	-57.061	-612.59	624.00
46	36.673	-36.673	-624.00	631.34
47	17.057	-17.057	-631.34	634.75
48	-1.8072	1.8072	-634.75	634.39
49	-19.941	19.941	-634.39	630.40
50	-37.365	37.365	-630.40	622.93
51	-54.099	54.099	-622.93	612.11
52	-70.165	70.165	-612.11	598.07
53	-85.582	85.582	-598.07	580.96
54	-100.37	100.37	-580.96	560.87
55	-114.55	114.55	-560.87	537.96
56	-128.14	128.14	-537.96	512.33
57	-141.16	141.16	-512.33	484.10
58	-153.63	153.63	-484.10	453.38
59	-165.56	165.56	-453.38	420.26
60	-174.95	174.95	-420.26	385.27
61	-181.29	181.29	-385.27	349.02
62	-184.66	184.66	-349.02	312.07
63	-185.15	185.15	-312.07	275.04
64	-182.81	182.81	-275.04	238.47
65	-177.71	177.71	-238.47	202.93
66	-169.91	169.91	-202.93	168.95
67	-159.45	159.45	-168.95	137.06
68	-147.02	147.02	-137.06	107.66
69	-132.83	132.83	-107.66	81.089
70	-116.91	116.91	-81.089	57.697

71	-99.340	99.340	-57.697	37.829
72	-80.146	80.146	-37.829	21.799
73	-59.329	59.329	-21.799	9.9337
74	-36.891	36.891	-9.9337	2.5554
75	-12.835	12.835	-2.5554	-1.08611E-10

```
+-------------------------------------------------------------------------------------------------------------------------+
|                   PARATIEPLUS(TM)   NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*              |
|                                                                                                                         |
|                                                ParatiePlus                                                              |
|                                Exe Time :28 January 2022   16:22:52                                                     |
+-------------------------------------------------------------------------------------------------------------------------+


     F I N A L    I N C R E M E N T A L    A N A L Y S I S

                    S U M M A R Y

     STEP                                    NO. OF ITERATIONS

        1           CONVERGENCE :YES                        2
        2           CONVERGENCE :YES                        2
        3           CONVERGENCE :YES                        7
        4           CONVERGENCE :YES                        2


 END OF PROCESS FOR PROBLEM
New Project
NONLINEAR SOLUTION CPU TIME ....    0.06 [sec]
DATABASE  CREATION CPU TIME.....    0.18 [sec]
```

8.15. Design Assumption : GLOBALE SISMICA - File di Paratie - File di input (.d)

```
* PARATIE ANALYSIS FOR DESIGN SECTION:Base Design Section USING ASSUMPTION: GLOBALE SISMICA
 * Time:venerdì 28 gennaio 2022 16:22:52
 * 1: Defining general settings
 UNIT  m kN
 TITLE New Project
 DELTA 0.2
 option param itemax 80
 option control contact lagrange

 option control hinges 0 0.0001 0.001

 * 2: Defining wall(s)
 WALL LeftWall_36 10 324 339 1

 * 3: Defining surfaces for wall(s)
 SOIL 0_L LeftWall_36 324 339 1 0
 SOIL 0_R LeftWall_36 324 339 2 180

 * 4: Defining soil layers
 *
 * Soil Profile (Aate_364268_2050_L_0)
 *
 LDATA Aate_364268_2050_L_0 343 LeftWall_36
 ATREST 0.5 0.5 1
 WEIGHT 19 9 10
 PERMEABILITY 1E-05
 RESISTANCE 10 31 0 0 0
 TZDATA  LINEAR 10000 0 25 0.5 0
 KSCALE  0 0
 YOUNG 40000 1.2E+05
 ENDL
 *
 * Soil Profile (Salt_1270_202756_L_0)
 *
 LDATA Salt_1270_202756_L_0 335 LeftWall_36
 ATREST 0.562 0.5 1
 WEIGHT 20 10 10
 PERMEABILITY 1E-05
 RESISTANCE 10 26 0 0 0
 TZDATA  LINEAR 10000 0 25 0.5 0
 KSCALE  0 0
 YOUNG 2E+05 6E+05
 ENDL
 *
 * Soil Profile (Pa_244788_244789_L_0)
 *
 LDATA Pa_244788_244789_L_0 331 LeftWall_36
 ATREST 0.5 0.5 1
 WEIGHT 22.5 12.5 10
 PERMEABILITY 0.0001
 RESISTANCE 50 27 0 0 0
 TZDATA  LINEAR 20000 0 30 0.5 0
 KSCALE  0 0
 YOUNG 1E+05 3E+05
 ENDL

 * 5: Defining structural materials
 * Steel material: 114 Name=Fe360 E=206000200 kPa
 MATERIAL Fe360_114 2.06E+08
 * Concrete material: 112 Name=C32/40 E=33345800 kPa
 MATERIAL C3240_112 3.3346E+07

 * 6: Defining structural elements
 * 6.1: Beams and combined Wall Elements
 ** rev 2021 and later
 BEAM Pali1500_253215 LeftWall_36 324 339 C3240_112 1.1067 0.80325 0.11296 20.081 00 00 0


 * 6.2: Supports




 * 6.3: Strips

 * 7: Defining Steps
 STEP AnteOperam_1747
 CHANGE Aate_364268_2050_L_0 U-FRICT=25.673 LeftWall_36
 CHANGE Aate_364268_2050_L_0 D-FRICT=25.673 LeftWall_36
 CHANGE Aate_364268_2050_L_0 U-KA=0.373 LeftWall_36
 CHANGE Aate_364268_2050_L_0 U-KP=2.833 LeftWall_36
 CHANGE Aate_364268_2050_L_0 D-KA=0.423 LeftWall_36
 CHANGE Aate_364268_2050_L_0 D-KP=3.343 LeftWall_36
 CHANGE Salt_1270_202756_L_0 U-FRICT=21.315 LeftWall_36
 CHANGE Salt_1270_202756_L_0 D-FRICT=21.315 LeftWall_36
```

```
CHANGE Salt_1270_202756_L_0 U-KA=0.439 LeftWall_36
CHANGE Salt_1270_202756_L_0 U-KP=2.255 LeftWall_36
CHANGE Salt_1270_202756_L_0 D-KA=0.503 LeftWall_36
CHANGE Salt_1270_202756_L_0 D-KP=2.649 LeftWall_36
CHANGE Pa_244788_244789_L_0 U-FRICT=22.177 LeftWall_36
CHANGE Pa_244788_244789_L_0 D-FRICT=22.177 LeftWall_36
CHANGE Pa_244788_244789_L_0 U-KA=0.426 LeftWall_36
CHANGE Pa_244788_244789_L_0 U-KP=2.334 LeftWall_36
CHANGE Pa_244788_244789_L_0 D-KA=0.486 LeftWall_36
CHANGE Pa_244788_244789_L_0 D-KP=2.77 LeftWall_36
CHANGE Aate_364268_2050_L_0 U-COHE=8 LeftWall_36
CHANGE Aate_364268_2050_L_0 U-ADHES=0 LeftWall_36
CHANGE Aate_364268_2050_L_0 D-COHE=8 LeftWall_36
CHANGE Aate_364268_2050_L_0 D-ADHES=0 LeftWall_36
CHANGE Salt_1270_202756_L_0 U-COHE=8 LeftWall_36
CHANGE Salt_1270_202756_L_0 U-ADHES=0 LeftWall_36
CHANGE Salt_1270_202756_L_0 D-COHE=8 LeftWall_36
CHANGE Salt_1270_202756_L_0 D-ADHES=0 LeftWall_36
CHANGE Pa_244788_244789_L_0 U-COHE=40 LeftWall_36
CHANGE Pa_244788_244789_L_0 U-ADHES=0 LeftWall_36
CHANGE Pa_244788_244789_L_0 D-COHE=40 LeftWall_36
CHANGE Pa_244788_244789_L_0 D-ADHES=0 LeftWall_36
SETWALL LeftWall_36
GEOM 343 343
SURCHARGE 0 0 0 0
WATER 337.47 -0.066047 324 0 0
ENDSTEP

STEP Pre-scavo+Pali_244791
CHANGE Aate_364268_2050_L_0 U-KA=0.399 LeftWall_36
CHANGE Aate_364268_2050_L_0 U-KP=3.343 LeftWall_36
CHANGE Aate_364268_2050_L_0 D-KA=0.395 LeftWall_36
CHANGE Salt_1270_202756_L_0 U-KA=0.613 LeftWall_36
CHANGE Salt_1270_202756_L_0 U-KP=2.649 LeftWall_36
CHANGE Salt_1270_202756_L_0 D-KA=0.467 LeftWall_36
CHANGE Pa_244788_244789_L_0 U-KA=0.611 LeftWall_36
CHANGE Pa_244788_244789_L_0 U-KP=2.77 LeftWall_36
CHANGE Pa_244788_244789_L_0 D-KA=0.452 LeftWall_36
SETWALL LeftWall_36
GEOM 339 339
SURCHARGE 0 0 0 0
WATER 337.47 -0.039326 324 0 0
ADD Pali1500_253215
ENDSTEP

STEP Scavofinale_252903
SETWALL LeftWall_36
GEOM 339 333
SURCHARGE 0 0 0 0
WATER 337.47 4.9732 324 0 0
ENDSTEP

STEP Sisma_284297
SETWALL LeftWall_36
GEOM 339 333
SURCHARGE 0 0 0 0
WATER 337.47 4.9732 324 0 0
CHANGE Aate_364268_2050_L_0 U-KAED=0.5342 LeftWall_36
CHANGE Aate_364268_2050_L_0 U-KAEW=0.70369 LeftWall_36
CHANGE Aate_364268_2050_L_0 U-KPED=3.2181 LeftWall_36
CHANGE Aate_364268_2050_L_0 U-KPEW=2.6635 LeftWall_36
CHANGE Aate_364268_2050_L_0 D-KAED=0.47385 LeftWall_36
CHANGE Aate_364268_2050_L_0 D-KAEW=0.65653 LeftWall_36
CHANGE Aate_364268_2050_L_0 D-KPED=2.7226 LeftWall_36
CHANGE Aate_364268_2050_L_0 D-KPEW=2.13 LeftWall_36
CHANGE Salt_1270_202756_L_0 U-KAED=1.0319 LeftWall_36
CHANGE Salt_1270_202756_L_0 U-KAEW=1.1381 LeftWall_36
CHANGE Salt_1270_202756_L_0 U-KPED=2.5176 LeftWall_36
CHANGE Salt_1270_202756_L_0 U-KPEW=2.0564 LeftWall_36
CHANGE Salt_1270_202756_L_0 D-KAED=0.55174 LeftWall_36
CHANGE Salt_1270_202756_L_0 D-KAEW=0.75204 LeftWall_36
CHANGE Salt_1270_202756_L_0 D-KPED=2.1226 LeftWall_36
CHANGE Salt_1270_202756_L_0 D-KPEW=1.6144 LeftWall_36
CHANGE Pa_244788_244789_L_0 U-KAED=1.0244 LeftWall_36
CHANGE Pa_244788_244789_L_0 U-KAEW=1.1124 LeftWall_36
CHANGE Pa_244788_244789_L_0 U-KPED=2.641 LeftWall_36
CHANGE Pa_244788_244789_L_0 U-KPEW=2.2816 LeftWall_36
CHANGE Pa_244788_244789_L_0 D-KAED=0.53598 LeftWall_36
CHANGE Pa_244788_244789_L_0 D-KAEW=0.676 LeftWall_36
CHANGE Pa_244788_244789_L_0 D-KPED=2.2283 LeftWall_36
CHANGE Pa_244788_244789_L_0 D-KPEW=1.8416 LeftWall_36
EQK USER 0.1454 0.0727 -0.0727 0 0.5 0 0.5 0 0
* Defining seismic surcharge pressures on wall LeftWall_36
*          min elevation = 333
*          max elevation = 339
*          average gamma = 19,3333333333333
*                     kh = 0,1454
*                deltaQ = 75,8988
DLOAD step LeftWall_36 333 12.65 339 12.65
* Include pressure contribution from wall: LeftWall_36
* Include wall contribution
DLOAD step LeftWall_36 333 2.9198 339 2.9198
```

```
ENDSTEP
```

8.16. Design Assumption : GLOBALE SISMICA - File di Paratie - File di output (.out)

```
+-------------------------------------------------------------------------------------------------------------------------------+
|                  PARATIEPLUS(TM)   NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*                      |
|                                                                                                                               |
|                                                ParatiePlus                                                                    |
|                              Exe Time :28 January 2022   16:22:52                                                             |
+-------------------------------------------------------------------------------------------------------------------------------+

                    ********************************************************
                    *                                                      *
                    *  PARATIE PLUS Non-Linear Spring Engine               *
                    *                                                      *
                    *          AN ELASTOPLASTIC FINITE ELEMENT PROGRAM     *
                    *          FOR FLEXIBLE EARTH-RETAINING STRUCTURES     *
                    *                                                      *
                    *          Written by CEAS s.r.l. (ITALY)              *
                    *          with the scientific supervision of          *
                    *          Roberto Nova - full professor SOIL MECHANICS*
                    *          at Politecnico di Milano (ITALY)            *
                    *                                                      *
                    ********************************************************
                    *                                                      *
                    *  RELEASE   2022.0.0   *Build date:Sep 13, 2021*      *
                    *                                                      *
                    *                                                      *
                    *  CEAS S.R.L  VIALE   GIUSTINIANO 10                  *
                    *              20129   M I L A N O  (ITALIA)           *
                    *  TEL.        +39 02 2020221                          *
                    *                                                      *
                    *  email       bruno.becci@ceas.it                     *
                    *  Web Page    www.ceas.it     www.paratieplus.com     *
                    ********************************************************



 JOB : ParatiePlus
 STARTING
ACCEPTED   &lt;FILE,GENW                                                                    &gt;
ACCEPTED   &lt;FILE,PLOTTER,BINARY                                                          &gt;
ACCEPTED   &lt;SOLVE TOTAL_STRESS                                                           &gt;
ACCEPTED   &lt;PARAM ITEMAX 80                                                              &gt;
ACCEPTED   &lt;CONTROL CONTACT LAGRANGE                                                     &gt;
ACCEPTED   &lt;CONTROL HINGES 0 0.0001 0.001                                                &gt;



                    ********************************************************
                    *                                                      *
                    *  WARNING : PORE PRESSURES ARE AUTOMATICALLY COMPUTED  *
                    *    BY THE PROGRAM.                                   *
                    ********************************************************

PRELIMINARY OPERATIONS CPU TIME     0.01 [sec]
```

```
+-----------------------------------------------------------------------------------------------------------------------+
|                   PARATIEPLUS(TM)   NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*             |
|                                                                                                                       |
|                                                ParatiePlus                                                            |
|                                Exe Time :28 January 2022   16:22:52                                                   |
+-----------------------------------------------------------------------------------------------------------------------+


INPUT FILE HAS BEEN GENERATED BY WALGEN PROGRAM


New Project


NO. OF NODAL POINTS (NUMNP) ...................   76
NO. OF COORDINATES  (NCOORD)...................    2
NO. OF NODE DOFS    (NDOF).....................    2
NO. OF EQUATIONS    (NEQ)...................... 152
NO. OF CONSTRAINTS CARDS (NVINC)...............    0
NO. OF ELEMENT GROUPS (NEG)....................    3
NO. OF SOLUTION STEPS (NSTE)...................    4
NO. OF ELEMENT SETS ATTACHED TO SLAVE NODES ...    0
NO. OF RECORD FROM WALGEN ..................... 130
NO. OF LONG NAMES (LASTNAME) ..................   17
LENGTH UNIT CHOICE ............................    3 (M   )
FORCE  UNIT CHOICE ............................    3 (KN  )
MAX PORE PRESSURE TABLE LENGTH.................    1
MAX INELASTIC DISPL. TABLE LENGTH..............    0
NO. OF ELEMENT GROUPS REQUIRING ADD. SLIP DOF .    0


IDOFA (01) =  2  Y-DISPL.F
IDOFA (02) =  4   X-ROT. F

 RELEVANT ITEMS UNITS

 STRESSES                  kPa
 Y-DISPLACEMENTS           m
 ROTATIONS                 RADIANS
 BEAM AND SLAB MOMENTS     kN*m/m
 BEAM SHEAR FORCES         kN/m
 ANCHOR FORCES             kN/m
 AXIAL FORCES IN TRUSSES   kN/m
 AXIAL FORCES SPRINGS      kN/m
 Y-REACTIONS               kN/m
 X-MOMENT REACTIONS        kN*m/m
 ETC.
```

```
+-------------------------------------------------------------------------------------------------------------------------+
|                   PARATIEPLUS(TM)   NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*              |
|                                                                                                                         |
|                                              ParatiePlus                                                                |
|                                  Exe Time :28 January 2022   16:22:52                                                   |
+-------------------------------------------------------------------------------------------------------------------------+
                   P R E P R O C E S S O R     D A T A

                   N O.  O F   C O M M A N D S    130

    1 : UNIT  m kN
    2 : TITLE New Project
    3 : DELTA 0.2
    4 : option param itemax 80
    5 : option control contact lagrange
    6 : option control hinges 0 0.0001 0.001
    7 : WALL LeftWall_36 10 324 339 1
    8 : SOIL 0_L LeftWall_36 324 339 1 0
    9 : SOIL 0_R LeftWall_36 324 339 2 180
   10 : LDATA Aate_364268_2050_L_0 343 LeftWall_36
   11 : ATREST 0.5 0.5 1
   12 : WEIGHT 19 9 10
   13 : PERMEABILITY 1E-05
   14 : RESISTANCE 10 31 0 0 0
   15 : TZDATA  LINEAR 10000 0 25 0.5 0
   16 : KSCALE  0 0
   17 : YOUNG 40000 1.2E+05
   18 : ENDL
   19 : LDATA Salt_1270_202756_L_0 335 LeftWall_36
   20 : ATREST 0.562 0.5 1
   21 : WEIGHT 20 10 10
   22 : PERMEABILITY 1E-05
   23 : RESISTANCE 10 26 0 0 0
   24 : TZDATA  LINEAR 10000 0 25 0.5 0
   25 : KSCALE  0 0
   26 : YOUNG 2E+05 6E+05
   27 : ENDL
   28 : LDATA Pa_244788_244789_L_0 331 LeftWall_36
   29 : ATREST 0.5 0.5 1
   30 : WEIGHT 22.5 12.5 10
   31 : PERMEABILITY 0.0001
   32 : RESISTANCE 50 27 0 0 0
   33 : TZDATA  LINEAR 20000 0 30 0.5 0
   34 : KSCALE  0 0
   35 : YOUNG 1E+05 3E+05
   36 : ENDL
   37 : MATERIAL Fe360_114 2.06E+08
   38 : MATERIAL C3240_112 3.3346E+07
   39 : BEAM Pali1500_253215 LeftWall_36 324 339 C3240_112 1.1067 0.80325 0.11296 20.081 00 00 0
   40 : STEP AnteOperam_1747
   41 : CHANGE Aate_364268_2050_L_0 U-FRICT=25.673 LeftWall_36
   42 : CHANGE Aate_364268_2050_L_0 D-FRICT=25.673 LeftWall_36
   43 : CHANGE Aate_364268_2050_L_0 U-KA=0.373 LeftWall_36
   44 : CHANGE Aate_364268_2050_L_0 U-KP=2.833 LeftWall_36
   45 : CHANGE Aate_364268_2050_L_0 D-KA=0.423 LeftWall_36
   46 : CHANGE Aate_364268_2050_L_0 D-KP=3.343 LeftWall_36
   47 : CHANGE Salt_1270_202756_L_0 U-FRICT=21.315 LeftWall_36
   48 : CHANGE Salt_1270_202756_L_0 D-FRICT=21.315 LeftWall_36
   49 : CHANGE Salt_1270_202756_L_0 U-KA=0.439 LeftWall_36
   50 : CHANGE Salt_1270_202756_L_0 U-KP=2.255 LeftWall_36
   51 : CHANGE Salt_1270_202756_L_0 D-KA=0.503 LeftWall_36
   52 : CHANGE Salt_1270_202756_L_0 D-KP=2.649 LeftWall_36
   53 : CHANGE Pa_244788_244789_L_0 U-FRICT=22.177 LeftWall_36
   54 : CHANGE Pa_244788_244789_L_0 D-FRICT=22.177 LeftWall_36
   55 : CHANGE Pa_244788_244789_L_0 U-KA=0.426 LeftWall_36
   56 : CHANGE Pa_244788_244789_L_0 U-KP=2.334 LeftWall_36
   57 : CHANGE Pa_244788_244789_L_0 D-KA=0.486 LeftWall_36
   58 : CHANGE Pa_244788_244789_L_0 D-KP=2.77 LeftWall_36
   59 : CHANGE Aate_364268_2050_L_0 U-COHE=8 LeftWall_36
   60 : CHANGE Aate_364268_2050_L_0 U-ADHES=0 LeftWall_36
   61 : CHANGE Aate_364268_2050_L_0 D-COHE=8 LeftWall_36
   62 : CHANGE Aate_364268_2050_L_0 D-ADHES=0 LeftWall_36
   63 : CHANGE Salt_1270_202756_L_0 U-COHE=8 LeftWall_36
   64 : CHANGE Salt_1270_202756_L_0 U-ADHES=0 LeftWall_36
   65 : CHANGE Salt_1270_202756_L_0 D-COHE=8 LeftWall_36
   66 : CHANGE Salt_1270_202756_L_0 D-ADHES=0 LeftWall_36
   67 : CHANGE Pa_244788_244789_L_0 U-COHE=40 LeftWall_36
   68 : CHANGE Pa_244788_244789_L_0 U-ADHES=0 LeftWall_36
   69 : CHANGE Pa_244788_244789_L_0 D-COHE=40 LeftWall_36
   70 : CHANGE Pa_244788_244789_L_0 D-ADHES=0 LeftWall_36
   71 : SETWALL LeftWall_36
   72 : GEOM 343 343
   73 : SURCHARGE 0 0 0 0
   74 : WATER 337.47 -0.066047 324 0 0
   75 : ENDSTEP
   76 : STEP Pre-scavo+Pali_244791
   77 : CHANGE Aate_364268_2050_L_0 U-KA=0.399 LeftWall_36
   78 : CHANGE Aate_364268_2050_L_0 U-KP=3.343 LeftWall_36
   79 : CHANGE Aate_364268_2050_L_0 D-KA=0.395 LeftWall_36
```

```
 80 : CHANGE Salt_1270_202756_L_0 U-KA=0.613 LeftWall_36
 81 : CHANGE Salt_1270_202756_L_0 U-KP=2.649 LeftWall_36
 82 : CHANGE Salt_1270_202756_L_0 D-KA=0.467 LeftWall_36
 83 : CHANGE Pa_244788_244789_L_0 U-KA=0.611 LeftWall_36
 84 : CHANGE Pa_244788_244789_L_0 U-KP=2.77 LeftWall_36
 85 : CHANGE Pa_244788_244789_L_0 D-KA=0.452 LeftWall_36
 86 : SETWALL LeftWall_36
 87 : GEOM 339 339
 88 : SURCHARGE 0 0 0 0
 89 : WATER 337.47 -0.039326 324 0 0
 90 : ADD Pali1500_253215
 91 : ENDSTEP
 92 : STEP Scavofinale_252903
 93 : SETWALL LeftWall_36
 94 : GEOM 339 333
 95 : SURCHARGE 0 0 0 0
 96 : WATER 337.47 4.9732 324 0 0
 97 : ENDSTEP
 98 : STEP Sisma_284297
 99 : SETWALL LeftWall_36
100 : GEOM 339 333
101 : SURCHARGE 0 0 0 0
102 : WATER 337.47 4.9732 324 0 0
103 : CHANGE Aate_364268_2050_L_0 U-KAED=0.5342 LeftWall_36
104 : CHANGE Aate_364268_2050_L_0 U-KAEW=0.70369 LeftWall_36
105 : CHANGE Aate_364268_2050_L_0 U-KPED=3.2181 LeftWall_36
106 : CHANGE Aate_364268_2050_L_0 U-KPEW=2.6635 LeftWall_36
107 : CHANGE Aate_364268_2050_L_0 D-KAED=0.47385 LeftWall_36
108 : CHANGE Aate_364268_2050_L_0 D-KAEW=0.65653 LeftWall_36
109 : CHANGE Aate_364268_2050_L_0 D-KPED=2.7226 LeftWall_36
110 : CHANGE Aate_364268_2050_L_0 D-KPEW=2.13 LeftWall_36
111 : CHANGE Salt_1270_202756_L_0 U-KAED=1.0319 LeftWall_36
112 : CHANGE Salt_1270_202756_L_0 U-KAEW=1.1381 LeftWall_36
113 : CHANGE Salt_1270_202756_L_0 U-KPED=2.5176 LeftWall_36
114 : CHANGE Salt_1270_202756_L_0 U-KPEW=2.0564 LeftWall_36
115 : CHANGE Salt_1270_202756_L_0 D-KAED=0.55174 LeftWall_36
116 : CHANGE Salt_1270_202756_L_0 D-KAEW=0.75204 LeftWall_36
117 : CHANGE Salt_1270_202756_L_0 D-KPED=2.1226 LeftWall_36
118 : CHANGE Salt_1270_202756_L_0 D-KPEW=1.6144 LeftWall_36
119 : CHANGE Pa_244788_244789_L_0 U-KAED=1.0244 LeftWall_36
120 : CHANGE Pa_244788_244789_L_0 U-KAEW=1.1124 LeftWall_36
121 : CHANGE Pa_244788_244789_L_0 U-KPED=2.641 LeftWall_36
122 : CHANGE Pa_244788_244789_L_0 U-KPEW=2.2816 LeftWall_36
123 : CHANGE Pa_244788_244789_L_0 D-KAED=0.53598 LeftWall_36
124 : CHANGE Pa_244788_244789_L_0 D-KAEW=0.676 LeftWall_36
125 : CHANGE Pa_244788_244789_L_0 D-KPED=2.2283 LeftWall_36
126 : CHANGE Pa_244788_244789_L_0 D-KPEW=1.8416 LeftWall_36
127 : EQK USER 0.1454 0.0727 -0.0727 0 0.5 0 0.5 0 0
128 : DLOAD step LeftWall_36 333 12.65 339 12.65
129 : DLOAD step LeftWall_36 333 2.9198 339 2.9198
130 : ENDSTEP
```

N O D A L P O I N T D A T A

NODE	Y-COORD	Z-COORD	/ NODE	Y-COORD	Z-COORD	/ NODE	Y-COORD	Z-COORD	/ NODE	Y-COORD	Z-COORD	/
1	10.000	339.00	/ 2	10.000	338.80	/ 3	10.000	338.60	/ 4	10.000	338.40	/
5	10.000	338.20	/ 6	10.000	338.00	/ 7	10.000	337.80	/ 8	10.000	337.60	/
9	10.000	337.40	/ 10	10.000	337.20	/ 11	10.000	337.00	/ 12	10.000	336.80	/
13	10.000	336.60	/ 14	10.000	336.40	/ 15	10.000	336.20	/ 16	10.000	336.00	/
17	10.000	335.80	/ 18	10.000	335.60	/ 19	10.000	335.40	/ 20	10.000	335.20	/
21	10.000	335.00	/ 22	10.000	334.80	/ 23	10.000	334.60	/ 24	10.000	334.40	/
25	10.000	334.20	/ 26	10.000	334.00	/ 27	10.000	333.80	/ 28	10.000	333.60	/
29	10.000	333.40	/ 30	10.000	333.20	/ 31	10.000	333.00	/ 32	10.000	332.80	/
33	10.000	332.60	/ 34	10.000	332.40	/ 35	10.000	332.20	/ 36	10.000	332.00	/
37	10.000	331.80	/ 38	10.000	331.60	/ 39	10.000	331.40	/ 40	10.000	331.20	/
41	10.000	331.00	/ 42	10.000	330.80	/ 43	10.000	330.60	/ 44	10.000	330.40	/
45	10.000	330.20	/ 46	10.000	330.00	/ 47	10.000	329.80	/ 48	10.000	329.60	/
49	10.000	329.40	/ 50	10.000	329.20	/ 51	10.000	329.00	/ 52	10.000	328.80	/
53	10.000	328.60	/ 54	10.000	328.40	/ 55	10.000	328.20	/ 56	10.000	328.00	/
57	10.000	327.80	/ 58	10.000	327.60	/ 59	10.000	327.40	/ 60	10.000	327.20	/
61	10.000	327.00	/ 62	10.000	326.80	/ 63	10.000	326.60	/ 64	10.000	326.40	/
65	10.000	326.20	/ 66	10.000	326.00	/ 67	10.000	325.80	/ 68	10.000	325.60	/
69	10.000	325.40	/ 70	10.000	325.20	/ 71	10.000	325.00	/ 72	10.000	324.80	/
73	10.000	324.60	/ 74	10.000	324.40	/ 75	10.000	324.20	/ 76	10.000	324.00	/

 ELEMENT GROUP NO. 1

0_L   :
   5 76   0   1   0   0   0   0   0   0   0   0   0   0   0   3   0   0   0   0
....
.....2D PLASTIC SOIL .....
....

element group behaviour throughout stage analysis

stage	status
1	active
2	active
3	active
4	active

 material set no.   1

 prop(1) angle   0.00000
 prop(2) layer as foreseen 1.00000

 material set no.   2

 prop(1) angle   0.00000
 prop(2) layer as foreseen 2.00000

 material set no.   3

 prop(1) angle   0.00000
 prop(2) layer as foreseen 3.00000

 element data

el	n	mat	area	.....	.....	.....	flag
1	1	1	0.1000	0.000	0.000	0.000	1.000
2	2	1	0.2000	0.000	0.000	0.000	1.000
3	3	1	0.2000	0.000	0.000	0.000	1.000
4	4	1	0.2000	0.000	0.000	0.000	1.000
5	5	1	0.2000	0.000	0.000	0.000	1.000
6	6	1	0.2000	0.000	0.000	0.000	1.000
7	7	1	0.2000	0.000	0.000	0.000	1.000
8	8	1	0.2000	0.000	0.000	0.000	1.000
9	9	1	0.2000	0.000	0.000	0.000	1.000
10	10	1	0.2000	0.000	0.000	0.000	1.000
11	11	1	0.2000	0.000	0.000	0.000	1.000
12	12	1	0.2000	0.000	0.000	0.000	1.000
13	13	1	0.2000	0.000	0.000	0.000	1.000
14	14	1	0.2000	0.000	0.000	0.000	1.000
15	15	1	0.2000	0.000	0.000	0.000	1.000
16	16	1	0.2000	0.000	0.000	0.000	1.000
17	17	1	0.2000	0.000	0.000	0.000	1.000
18	18	1	0.2000	0.000	0.000	0.000	1.000
19	19	1	0.2000	0.000	0.000	0.000	1.000
20	20	1	0.2000	0.000	0.000	0.000	1.000
21	21	2	0.2000	0.000	0.000	0.000	1.000
22	22	2	0.2000	0.000	0.000	0.000	1.000
23	23	2	0.2000	0.000	0.000	0.000	1.000
24	24	2	0.2000	0.000	0.000	0.000	1.000
25	25	2	0.2000	0.000	0.000	0.000	1.000
26	26	2	0.2000	0.000	0.000	0.000	1.000
27	27	2	0.2000	0.000	0.000	0.000	1.000
28	28	2	0.2000	0.000	0.000	0.000	1.000
29	29	2	0.2000	0.000	0.000	0.000	1.000
30	30	2	0.2000	0.000	0.000	0.000	1.000
31	31	2	0.2000	0.000	0.000	0.000	1.000
32	32	2	0.2000	0.000	0.000	0.000	1.000
33	33	2	0.2000	0.000	0.000	0.000	1.000
34	34	2	0.2000	0.000	0.000	0.000	1.000
35	35	2	0.2000	0.000	0.000	0.000	1.000
36	36	2	0.2000	0.000	0.000	0.000	1.000
37	37	2	0.2000	0.000	0.000	0.000	1.000
38	38	2	0.2000	0.000	0.000	0.000	1.000
39	39	2	0.2000	0.000	0.000	0.000	1.000
40	40	2	0.2000	0.000	0.000	0.000	1.000
41	41	3	0.2000	0.000	0.000	0.000	1.000
42	42	3	0.2000	0.000	0.000	0.000	1.000
43	43	3	0.2000	0.000	0.000	0.000	1.000

44	44	3	0.2000	0.000	0.000	0.000	1.000
45	45	3	0.2000	0.000	0.000	0.000	1.000
46	46	3	0.2000	0.000	0.000	0.000	1.000
47	47	3	0.2000	0.000	0.000	0.000	1.000
48	48	3	0.2000	0.000	0.000	0.000	1.000
49	49	3	0.2000	0.000	0.000	0.000	1.000
50	50	3	0.2000	0.000	0.000	0.000	1.000
51	51	3	0.2000	0.000	0.000	0.000	1.000
52	52	3	0.2000	0.000	0.000	0.000	1.000
53	53	3	0.2000	0.000	0.000	0.000	1.000
54	54	3	0.2000	0.000	0.000	0.000	1.000
55	55	3	0.2000	0.000	0.000	0.000	1.000
56	56	3	0.2000	0.000	0.000	0.000	1.000
57	57	3	0.2000	0.000	0.000	0.000	1.000
58	58	3	0.2000	0.000	0.000	0.000	1.000
59	59	3	0.2000	0.000	0.000	0.000	1.000
60	60	3	0.2000	0.000	0.000	0.000	1.000
61	61	3	0.2000	0.000	0.000	0.000	1.000
62	62	3	0.2000	0.000	0.000	0.000	1.000
63	63	3	0.2000	0.000	0.000	0.000	1.000
64	64	3	0.2000	0.000	0.000	0.000	1.000
65	65	3	0.2000	0.000	0.000	0.000	1.000
66	66	3	0.2000	0.000	0.000	0.000	1.000
67	67	3	0.2000	0.000	0.000	0.000	1.000
68	68	3	0.2000	0.000	0.000	0.000	1.000
69	69	3	0.2000	0.000	0.000	0.000	1.000
70	70	3	0.2000	0.000	0.000	0.000	1.000
71	71	3	0.2000	0.000	0.000	0.000	1.000
72	72	3	0.2000	0.000	0.000	0.000	1.000
73	73	3	0.2000	0.000	0.000	0.000	1.000
74	74	3	0.2000	0.000	0.000	0.000	1.000
75	75	3	0.2000	0.000	0.000	0.000	1.000
76	76	3	0.1000	0.000	0.000	0.000	1.000

```
 ELEMENT GROUP NO.  2

0_R                                                    :
   5  76   0   1   0   0   0   0   0   0   0   0   0   0   3   0   0   0   0
.....................................
..........2D PLASTIC SOIL ..........
.....................................
```

element group behaviour throughout stage analysis

stage	status
1	active
2	active
3	active
4	active

material set no. 1

prop(1) angle 180.000
prop(2) layer as foreseen 1.00000

material set no. 2

prop(1) angle 180.000
prop(2) layer as foreseen 2.00000

material set no. 3

prop(1) angle 180.000
prop(2) layer as foreseen 3.00000

element data

el	n	mat	area	.....	.....	.....	flag
1	1	1	0.1000	0.000	0.000	0.000	2.000
2	2	1	0.2000	0.000	0.000	0.000	2.000
3	3	1	0.2000	0.000	0.000	0.000	2.000
4	4	1	0.2000	0.000	0.000	0.000	2.000
5	5	1	0.2000	0.000	0.000	0.000	2.000
6	6	1	0.2000	0.000	0.000	0.000	2.000
7	7	1	0.2000	0.000	0.000	0.000	2.000
8	8	1	0.2000	0.000	0.000	0.000	2.000
9	9	1	0.2000	0.000	0.000	0.000	2.000
10	10	1	0.2000	0.000	0.000	0.000	2.000
11	11	1	0.2000	0.000	0.000	0.000	2.000
12	12	1	0.2000	0.000	0.000	0.000	2.000
13	13	1	0.2000	0.000	0.000	0.000	2.000
14	14	1	0.2000	0.000	0.000	0.000	2.000
15	15	1	0.2000	0.000	0.000	0.000	2.000
16	16	1	0.2000	0.000	0.000	0.000	2.000
17	17	1	0.2000	0.000	0.000	0.000	2.000
18	18	1	0.2000	0.000	0.000	0.000	2.000
19	19	1	0.2000	0.000	0.000	0.000	2.000
20	20	1	0.2000	0.000	0.000	0.000	2.000
21	21	2	0.2000	0.000	0.000	0.000	2.000
22	22	2	0.2000	0.000	0.000	0.000	2.000
23	23	2	0.2000	0.000	0.000	0.000	2.000
24	24	2	0.2000	0.000	0.000	0.000	2.000
25	25	2	0.2000	0.000	0.000	0.000	2.000
26	26	2	0.2000	0.000	0.000	0.000	2.000
27	27	2	0.2000	0.000	0.000	0.000	2.000
28	28	2	0.2000	0.000	0.000	0.000	2.000
29	29	2	0.2000	0.000	0.000	0.000	2.000
30	30	2	0.2000	0.000	0.000	0.000	2.000
31	31	2	0.2000	0.000	0.000	0.000	2.000
32	32	2	0.2000	0.000	0.000	0.000	2.000
33	33	2	0.2000	0.000	0.000	0.000	2.000
34	34	2	0.2000	0.000	0.000	0.000	2.000
35	35	2	0.2000	0.000	0.000	0.000	2.000
36	36	2	0.2000	0.000	0.000	0.000	2.000
37	37	2	0.2000	0.000	0.000	0.000	2.000
38	38	2	0.2000	0.000	0.000	0.000	2.000
39	39	2	0.2000	0.000	0.000	0.000	2.000
40	40	2	0.2000	0.000	0.000	0.000	2.000
41	41	3	0.2000	0.000	0.000	0.000	2.000
42	42	3	0.2000	0.000	0.000	0.000	2.000
43	43	3	0.2000	0.000	0.000	0.000	2.000

44	44	3	0.2000	0.000	0.000	0.000	2.000
45	45	3	0.2000	0.000	0.000	0.000	2.000
46	46	3	0.2000	0.000	0.000	0.000	2.000
47	47	3	0.2000	0.000	0.000	0.000	2.000
48	48	3	0.2000	0.000	0.000	0.000	2.000
49	49	3	0.2000	0.000	0.000	0.000	2.000
50	50	3	0.2000	0.000	0.000	0.000	2.000
51	51	3	0.2000	0.000	0.000	0.000	2.000
52	52	3	0.2000	0.000	0.000	0.000	2.000
53	53	3	0.2000	0.000	0.000	0.000	2.000
54	54	3	0.2000	0.000	0.000	0.000	2.000
55	55	3	0.2000	0.000	0.000	0.000	2.000
56	56	3	0.2000	0.000	0.000	0.000	2.000
57	57	3	0.2000	0.000	0.000	0.000	2.000
58	58	3	0.2000	0.000	0.000	0.000	2.000
59	59	3	0.2000	0.000	0.000	0.000	2.000
60	60	3	0.2000	0.000	0.000	0.000	2.000
61	61	3	0.2000	0.000	0.000	0.000	2.000
62	62	3	0.2000	0.000	0.000	0.000	2.000
63	63	3	0.2000	0.000	0.000	0.000	2.000
64	64	3	0.2000	0.000	0.000	0.000	2.000
65	65	3	0.2000	0.000	0.000	0.000	2.000
66	66	3	0.2000	0.000	0.000	0.000	2.000
67	67	3	0.2000	0.000	0.000	0.000	2.000
68	68	3	0.2000	0.000	0.000	0.000	2.000
69	69	3	0.2000	0.000	0.000	0.000	2.000
70	70	3	0.2000	0.000	0.000	0.000	2.000
71	71	3	0.2000	0.000	0.000	0.000	2.000
72	72	3	0.2000	0.000	0.000	0.000	2.000
73	73	3	0.2000	0.000	0.000	0.000	2.000
74	74	3	0.2000	0.000	0.000	0.000	2.000
75	75	3	0.2000	0.000	0.000	0.000	2.000
76	76	3	0.1000	0.000	0.000	0.000	2.000

ELEMENT GROUP NO. 3

Pali1500_253215 :

2 75 0 1 0 0 0 0 0 0 0 0 0 0 0 1 0 0 1 0

.....

.....2D WALL ELEMENT.....

.....

element group behaviour throughout stage analysis

stage	status
1	inactive
2	active
3	active
4	active

material set no. 1

prop(1) young modulus 0.333500E+08
prop(2) modification time 0.00000
prop(3) new young modulus 0.00000
prop(4) poisson ratio 0.00000
prop(5) future 0.00000

no. of step variable items: 1

step	inertia multipier
1	1.000
2	1.000
3	1.000
4	1.000

element data

el	na	nb	mat	erc1	erc2	thick	area	inertia	wgt(-z)	by-i	by-j
1	1	2	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
2	2	3	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
3	3	4	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
4	4	5	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
5	5	6	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
6	6	7	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
7	7	8	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
8	8	9	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
9	9	10	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
10	10	11	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
11	11	12	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
12	12	13	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
13	13	14	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
14	14	15	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
15	15	16	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
16	16	17	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
17	17	18	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
18	18	19	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
19	19	20	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
20	20	21	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
21	21	22	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
22	22	23	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
23	23	24	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
24	24	25	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
25	25	26	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
26	26	27	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
27	27	28	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
28	28	29	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
29	29	30	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
30	30	31	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
31	31	32	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
32	32	33	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
33	33	34	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
34	34	35	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
35	35	36	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
36	36	37	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
37	37	38	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
38	38	39	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
39	39	40	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
40	40	41	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
41	41	42	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
42	42	43	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
43	43	44	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
44	44	45	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
45	45	46	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000

46	46	47	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
47	47	48	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
48	48	49	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
49	49	50	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
50	50	51	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
51	51	52	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
52	52	53	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
53	53	54	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
54	54	55	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
55	55	56	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
56	56	57	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
57	57	58	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
58	58	59	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
59	59	60	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
60	60	61	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
61	61	62	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
62	62	63	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
63	63	64	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
64	64	65	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
65	65	66	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
66	66	67	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
67	67	68	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
68	68	69	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
69	69	70	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
70	70	71	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
71	71	72	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
72	72	73	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
73	73	74	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
74	74	75	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000
75	75	76	1	0.000	0.000	1.107	0.8033	0.1130	20.08	0.000	0.000

```
+-------------------------------------------------------------------------------------------------------------------------+
|                   PARATIEPLUS(TM)   NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*              |
|                                                                                                                         |
|                                                ParatiePlus                                                              |
|                                  Exe Time :28 January 2022   16:22:52                                                   |
+-------------------------------------------------------------------------------------------------------------------------+


NO. OF NODAL LOADS  (NLOAD) ...................    0
NO. OF LOAD CURVES  (NLCUR) ...................    8
MAXIMUM POINTS/LCURVE (NPTM)...................    5
```

L O A D D A T A

LOAD FUNCTION NUMBER = 1
NUMBER OF TIME POINTS = 5

TIME VALUE	FUNCTION
0.00000	0.0000E+00
0.80000	0.0000E+00
1.00000	0.1000E+01
1.20000	0.0000E+00
5.00000	0.0000E+00

LOAD FUNCTION NUMBER = 2
NUMBER OF TIME POINTS = 5

TIME VALUE	FUNCTION
0.00000	0.0000E+00
1.80000	0.0000E+00
2.00000	0.1000E+01
2.20000	0.0000E+00
5.00000	0.0000E+00

LOAD FUNCTION NUMBER = 3
NUMBER OF TIME POINTS = 5

TIME VALUE	FUNCTION
0.00000	0.0000E+00
2.80000	0.0000E+00
3.00000	0.1000E+01
3.20000	0.0000E+00
5.00000	0.0000E+00

LOAD FUNCTION NUMBER = 4
NUMBER OF TIME POINTS = 5

TIME VALUE	FUNCTION
0.00000	0.0000E+00
3.80000	0.0000E+00
4.00000	0.1000E+01
4.20000	0.0000E+00
5.00000	0.0000E+00

LOAD FUNCTION NUMBER = 5
NUMBER OF TIME POINTS = 4

TIME VALUE	FUNCTION
0.00000	0.0000E+00
0.80000	0.0000E+00
1.00000	0.1000E+01
5.00000	0.1000E+01

LOAD FUNCTION NUMBER = 6
NUMBER OF TIME POINTS = 4

TIME VALUE	FUNCTION
0.00000	0.0000E+00
1.80000	0.0000E+00
2.00000	0.1000E+01
5.00000	0.1000E+01

LOAD FUNCTION NUMBER = 7
NUMBER OF TIME POINTS = 4

TIME VALUE	FUNCTION
0.00000	0.0000E+00
2.80000	0.0000E+00
3.00000	0.1000E+01
5.00000	0.1000E+01

LOAD FUNCTION NUMBER = 8
NUMBER OF TIME POINTS = 4

TIME VALUE	FUNCTION
0.00000	0.0000E+00
3.80000	0.0000E+00
4.00000	0.1000E+01
5.00000	0.1000E+01

PROCESSING DISTRIBUTED LOADS CARD NO. 1
AT Y-COORD 10.00 Z-COORD 333.0 PRESSURE 12.65
Z-COORD 339.0 PRESSURE 12.65
L.CURVE 4

NO. OF GENERATED NODAL FORCES 30

NODE	Z-LVL	FORCE /	NODE	Z-LVL	FORCE /	NODE	Z-LVL	FORCE /
30	0.3332E+03	0.2549869E+01 /	29	0.3334E+03	0.2574166E+01 /	28	0.3336E+03	0.2573533E+01 /
27	0.3338E+03	0.2573533E+01 /	26	0.3340E+03	0.2573533E+01 /	25	0.3342E+03	0.2573533E+01 /
24	0.3344E+03	0.2573533E+01 /	23	0.3346E+03	0.2573533E+01 /	22	0.3348E+03	0.2574166E+01 /
21	0.3350E+03	0.2574166E+01 /	20	0.3352E+03	0.2573533E+01 /	19	0.3354E+03	0.2573533E+01 /
18	0.3356E+03	0.2573533E+01 /	17	0.3358E+03	0.2573533E+01 /	16	0.3360E+03	0.2573533E+01 /
15	0.3362E+03	0.2573533E+01 /	14	0.3364E+03	0.2574166E+01 /	13	0.3366E+03	0.2574166E+01 /
12	0.3368E+03	0.2573533E+01 /	11	0.3370E+03	0.2573533E+01 /	10	0.3372E+03	0.2573533E+01 /
9	0.3374E+03	0.2573533E+01 /	8	0.3376E+03	0.2573533E+01 /	7	0.3378E+03	0.2573533E+01 /
6	0.3380E+03	0.2574166E+01 /	5	0.3382E+03	0.2574166E+01 /	4	0.3384E+03	0.2573533E+01 /
3	0.3386E+03	0.2573533E+01 /	2	0.3388E+03	0.2573533E+01 /	1	0.3390E+03	0.1286767E+01 /

OVERALL APPLIED Y FORCE FOR CURRENT DISTRIBUTED LOAD 75.900

PROCESSING DISTRIBUTED LOADS CARD NO. 2
AT Y-COORD 10.00 Z-COORD 333.0 PRESSURE 2.920
Z-COORD 339.0 PRESSURE 2.920
L.CURVE 4

NO. OF GENERATED NODAL FORCES 30

NODE	Z-LVL	FORCE /	NODE	Z-LVL	FORCE /	NODE	Z-LVL	FORCE /
30	0.3332E+03	0.5885864E+00 /	29	0.3334E+03	0.5941948E+00 /	28	0.3336E+03	0.5940488E+00 /
27	0.3338E+03	0.5940488E+00 /	26	0.3340E+03	0.5940488E+00 /	25	0.3342E+03	0.5940488E+00 /
24	0.3344E+03	0.5940488E+00 /	23	0.3346E+03	0.5940488E+00 /	22	0.3348E+03	0.5941948E+00 /
21	0.3350E+03	0.5941948E+00 /	20	0.3352E+03	0.5940488E+00 /	19	0.3354E+03	0.5940488E+00 /
18	0.3356E+03	0.5940488E+00 /	17	0.3358E+03	0.5940488E+00 /	16	0.3360E+03	0.5940488E+00 /
15	0.3362E+03	0.5940488E+00 /	14	0.3364E+03	0.5941948E+00 /	13	0.3366E+03	0.5941948E+00 /
12	0.3368E+03	0.5940488E+00 /	11	0.3370E+03	0.5940488E+00 /	10	0.3372E+03	0.5940488E+00 /
9	0.3374E+03	0.5940488E+00 /	8	0.3376E+03	0.5940488E+00 /	7	0.3378E+03	0.5940488E+00 /
6	0.3380E+03	0.5941948E+00 /	5	0.3382E+03	0.5941948E+00 /	4	0.3384E+03	0.5940488E+00 /
3	0.3386E+03	0.5940488E+00 /	2	0.3388E+03	0.5940488E+00 /	1	0.3390E+03	0.2970244E+00 /

OVERALL APPLIED Y FORCE FOR CURRENT DISTRIBUTED LOAD 17.520

NO. OF DISTRIBUTED LOAD CARDS 2

```
+----------------------------------------------------------------------------------------------------------------------+
|                   PARATIEPLUS(TM)   NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*          |
|                                                                                                                      |
|                                                          ParatiePlus                                                 |
|                                   Exe Time :28 January 2022   16:22:52                                               |
+----------------------------------------------------------------------------------------------------------------------+
L O A D    B A L A N C E

STEP     1 TOTAL APPLIED LOAD IN DIR.  2  Y-DISPL.F       0.0000000
STEP     1 TOTAL APPLIED LOAD IN DIR.  4   X-ROT. F       0.0000000

STEP     2 TOTAL APPLIED LOAD IN DIR.  2  Y-DISPL.F       0.0000000
STEP     2 TOTAL APPLIED LOAD IN DIR.  4   X-ROT. F       0.0000000

STEP     3 TOTAL APPLIED LOAD IN DIR.  2  Y-DISPL.F       0.0000000
STEP     3 TOTAL APPLIED LOAD IN DIR.  4   X-ROT. F       0.0000000

STEP     4 TOTAL APPLIED LOAD IN DIR.  2  Y-DISPL.F       93.420000
STEP     4 TOTAL APPLIED LOAD IN DIR.  4   X-ROT. F       0.0000000


                      LOAD INPUT SECTION COMPLETED
```

```
+-------------------------------------------------------------------------------------------------------------------------+
|                  PARATIEPLUS(TM)   NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*              |
|                                                                                                                         |
|                                                ParatiePlus                                                              |
|                                Exe Time :28 January 2022   16:22:52                                                     |
+-------------------------------------------------------------------------------------------------------------------------+


NO. OF LAYERS ..............................    3
NO. OF DATA PER LAYER.......................  160
```

LAYER DESCRIPTORS FOR STEP NO. 1

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 1 FOR STEP NO. 1

ITEM NO. 1<NAME >= 12.000 (BOTH WALLS)
ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
ITEM NO. 3<LEVEL >= 343.00 (BOTH WALLS)
ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)
ITEM NO. 5<GAMMAD >= 19.000 (BOTH WALLS)
ITEM NO. 6<GAMMAB >= 9.0000 (BOTH WALLS)
ITEM NO. 7<GAMMAW >= 10.000 (BOTH WALLS)
ITEM NO. 8<U-COHE >= 8.0000 WALL NO. 1
ITEM NO. 8<U-COHE >= 10.000 WALL NO. 2
ITEM NO. 9<U-FRICT >= 25.673 WALL NO. 1
ITEM NO. 9<U-FRICT >= 31.000 WALL NO. 2
ITEM NO. 10<U-KA >= 0.37300 WALL NO. 1
ITEM NO. 11<U-KP >= 2.8330 WALL NO. 1
ITEM NO. 12<K0-NC >= 0.50000 (BOTH WALLS)
ITEM NO. 13<NEXP >= 0.50000 (BOTH WALLS)
ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)
ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)
ITEM NO. 17<EVC >= 40000. (BOTH WALLS)
ITEM NO. 18<EUR >= 0.12000E+06 (BOTH WALLS)
ITEM NO. 27<U-PERM >= 0.10000E-04 (BOTH WALLS)
ITEM NO. 58<U-TZKZ >= 10000. (BOTH WALLS)
ITEM NO. 60<U-TZDELT>= 25.000 (BOTH WALLS)
ITEM NO. 61<U-TZALPH>= 0.50000 (BOTH WALLS)
ITEM NO. 82<D-NATURE>= 1.0000 (BOTH WALLS)
ITEM NO. 83<D-LEVEL >= 343.00 (BOTH WALLS)
ITEM NO. 88<D-COHE >= 8.0000 WALL NO. 1
ITEM NO. 88<D-COHE >= 10.000 WALL NO. 2
ITEM NO. 89<D-FRICT >= 25.673 WALL NO. 1
ITEM NO. 89<D-FRICT >= 31.000 WALL NO. 2
ITEM NO. 90<D-KA >= 0.42300 WALL NO. 1
ITEM NO. 91<D-KP >= 3.3430 WALL NO. 1
ITEM NO. 107<D-PERM >= 0.10000E-04 (BOTH WALLS)
ITEM NO. 138<D-TZKZ >= 10000. (BOTH WALLS)
ITEM NO. 140<D-TZDELT>= 25.000 (BOTH WALLS)
ITEM NO. 141<D-TZALPH>= 0.50000 (BOTH WALLS)

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 2 FOR STEP NO. 1

ITEM NO. 1<NAME >= 13.000 (BOTH WALLS)
ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
ITEM NO. 3<LEVEL >= 335.00 (BOTH WALLS)
ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)
ITEM NO. 5<GAMMAD >= 20.000 (BOTH WALLS)
ITEM NO. 6<GAMMAB >= 10.000 (BOTH WALLS)
ITEM NO. 7<GAMMAW >= 10.000 (BOTH WALLS)
ITEM NO. 8<U-COHE >= 8.0000 WALL NO. 1
ITEM NO. 8<U-COHE >= 10.000 WALL NO. 2
ITEM NO. 9<U-FRICT >= 21.315 WALL NO. 1
ITEM NO. 9<U-FRICT >= 26.000 WALL NO. 2
ITEM NO. 10<U-KA >= 0.43900 WALL NO. 1
ITEM NO. 11<U-KP >= 2.2550 WALL NO. 1
ITEM NO. 12<K0-NC >= 0.56200 (BOTH WALLS)
ITEM NO. 13<NEXP >= 0.50000 (BOTH WALLS)
ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)
ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)
ITEM NO. 17<EVC >= 0.20000E+06 (BOTH WALLS)
ITEM NO. 18<EUR >= 0.60000E+06 (BOTH WALLS)
ITEM NO. 27<U-PERM >= 0.10000E-04 (BOTH WALLS)
ITEM NO. 58<U-TZKZ >= 10000. (BOTH WALLS)
ITEM NO. 60<U-TZDELT>= 25.000 (BOTH WALLS)
ITEM NO. 61<U-TZALPH>= 0.50000 (BOTH WALLS)
ITEM NO. 82<D-NATURE>= 1.0000 (BOTH WALLS)
ITEM NO. 83<D-LEVEL >= 0.0000 (BOTH WALLS)
ITEM NO. 88<D-COHE >= 8.0000 WALL NO. 1
ITEM NO. 88<D-COHE >= 10.000 WALL NO. 2
ITEM NO. 89<D-FRICT >= 21.315 WALL NO. 1
ITEM NO. 89<D-FRICT >= 26.000 WALL NO. 2
ITEM NO. 90<D-KA >= 0.50300 WALL NO. 1
ITEM NO. 91<D-KP >= 2.6490 WALL NO. 1
ITEM NO. 107<D-PERM >= 0.10000E-04 (BOTH WALLS)
ITEM NO. 138<D-TZKZ >= 10000. (BOTH WALLS)
ITEM NO. 140<D-TZDELT>= 25.000 (BOTH WALLS)
ITEM NO. 141<D-TZALPH>= 0.50000 (BOTH WALLS)

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 3 FOR STEP NO. 1

ITEM NO. 1<NAME >= 14.000 (BOTH WALLS)

ITEM NO. 2<NATURE >= 1.0000   (BOTH WALLS)
ITEM NO. 3<LEVEL   >= 331.00   (BOTH WALLS)
ITEM NO. 4<WALL   >= 1.0000   (BOTH WALLS)
ITEM NO. 5<GAMMAD >= 22.500   (BOTH WALLS)
ITEM NO. 6<GAMMAB >= 12.500   (BOTH WALLS)
ITEM NO. 7<GAMMAW >= 10.000   (BOTH WALLS)
ITEM NO. 8<U-COHE >= 40.000   WALL NO.   1
ITEM NO. 8<U-COHE >= 50.000   WALL NO.   2
ITEM NO. 9<U-FRICT >= 22.177   WALL NO.   1
ITEM NO. 9<U-FRICT >= 27.000   WALL NO.   2
ITEM NO. 10<U-KA   >= 0.42600   WALL NO.   1
ITEM NO. 11<U-KP   >= 2.3340   WALL NO.   1
ITEM NO. 12<K0-NC   >= 0.50000   (BOTH WALLS)
ITEM NO. 13<NEXP   >= 0.50000   (BOTH WALLS)
ITEM NO. 14<OCR   >= 1.0000   (BOTH WALLS)
ITEM NO. 16<MODEL   >= 1.0000   (BOTH WALLS)
ITEM NO. 17<EVC   >= 0.10000E+06 (BOTH WALLS)
ITEM NO. 18<EUR   >= 0.30000E+06 (BOTH WALLS)
ITEM NO. 27<U-PERM >= 0.10000E-03 (BOTH WALLS)
ITEM NO. 58<U-TZKZ >= 20000.   (BOTH WALLS)
ITEM NO. 60<U-TZDELT>= 30.000   (BOTH WALLS)
ITEM NO. 61<U-TZALPH>= 0.50000   (BOTH WALLS)
ITEM NO. 82<D-NATURE>= 1.0000   (BOTH WALLS)
ITEM NO. 83<D-LEVEL >= 0.0000   (BOTH WALLS)
ITEM NO. 88<D-COHE >= 40.000   WALL NO.   1
ITEM NO. 88<D-COHE >= 50.000   WALL NO.   2
ITEM NO. 89<D-FRICT >= 22.177   WALL NO.   1
ITEM NO. 89<D-FRICT >= 27.000   WALL NO.   2
ITEM NO. 90<D-KA   >= 0.48600   WALL NO.   1
ITEM NO. 91<D-KP   >= 2.7700   WALL NO.   1
ITEM NO. 107<D-PERM >= 0.10000E-03 (BOTH WALLS)
ITEM NO. 138<D-TZKZ >= 20000.   (BOTH WALLS)
ITEM NO. 140<D-TZDELT>= 30.000   (BOTH WALLS)
ITEM NO. 141<D-TZALPH>= 0.50000   (BOTH WALLS)

LAYER DESCRIPTORS FOR STEP NO.   2

 NON ZERO LAYER DESCRIPTORS FOR LAYER NO.   1 FOR STEP NO.   2

ITEM NO. 1<NAME   >= 12.000   (BOTH WALLS)
ITEM NO. 2<NATURE >= 1.0000   (BOTH WALLS)
ITEM NO. 3<LEVEL   >= 343.00   (BOTH WALLS)
ITEM NO. 4<WALL   >= 1.0000   (BOTH WALLS)
ITEM NO. 5<GAMMAD >= 19.000   (BOTH WALLS)
ITEM NO. 6<GAMMAB >= 9.0000   (BOTH WALLS)
ITEM NO. 7<GAMMAW >= 10.000   (BOTH WALLS)
ITEM NO. 8<U-COHE >= 8.0000   WALL NO.   1
ITEM NO. 8<U-COHE >= 10.000   WALL NO.   2
ITEM NO. 9<U-FRICT >= 25.673   WALL NO.   1
ITEM NO. 9<U-FRICT >= 31.000   WALL NO.   2
ITEM NO. 10<U-KA   >= 0.39900   WALL NO.   1
ITEM NO. 11<U-KP   >= 3.3430   WALL NO.   1
ITEM NO. 12<K0-NC   >= 0.50000   (BOTH WALLS)
ITEM NO. 13<NEXP   >= 0.50000   (BOTH WALLS)
ITEM NO. 14<OCR   >= 1.0000   (BOTH WALLS)
ITEM NO. 16<MODEL   >= 1.0000   (BOTH WALLS)
ITEM NO. 17<EVC   >= 40000.   (BOTH WALLS)
ITEM NO. 18<EUR   >= 0.12000E+06 (BOTH WALLS)
ITEM NO. 27<U-PERM >= 0.10000E-04 (BOTH WALLS)
ITEM NO. 58<U-TZKZ >= 10000.   (BOTH WALLS)
ITEM NO. 60<U-TZDELT>= 25.000   (BOTH WALLS)
ITEM NO. 61<U-TZALPH>= 0.50000   (BOTH WALLS)
ITEM NO. 82<D-NATURE>= 1.0000   (BOTH WALLS)
ITEM NO. 83<D-LEVEL >= 343.00   (BOTH WALLS)
ITEM NO. 88<D-COHE >= 8.0000   WALL NO.   1
ITEM NO. 88<D-COHE >= 10.000   WALL NO.   2
ITEM NO. 89<D-FRICT >= 25.673   WALL NO.   1
ITEM NO. 89<D-FRICT >= 31.000   WALL NO.   2
ITEM NO. 90<D-KA   >= 0.39500   WALL NO.   1
ITEM NO. 91<D-KP   >= 3.3430   WALL NO.   1
ITEM NO. 107<D-PERM >= 0.10000E-04 (BOTH WALLS)
ITEM NO. 138<D-TZKZ >= 10000.   (BOTH WALLS)
ITEM NO. 140<D-TZDELT>= 25.000   (BOTH WALLS)
ITEM NO. 141<D-TZALPH>= 0.50000   (BOTH WALLS)

 NON ZERO LAYER DESCRIPTORS FOR LAYER NO.   2 FOR STEP NO.   2

ITEM NO. 1<NAME   >= 13.000   (BOTH WALLS)
ITEM NO. 2<NATURE >= 1.0000   (BOTH WALLS)
ITEM NO. 3<LEVEL   >= 335.00   (BOTH WALLS)
ITEM NO. 4<WALL   >= 1.0000   (BOTH WALLS)
ITEM NO. 5<GAMMAD >= 20.000   (BOTH WALLS)
ITEM NO. 6<GAMMAB >= 10.000   (BOTH WALLS)
ITEM NO. 7<GAMMAW >= 10.000   (BOTH WALLS)
ITEM NO. 8<U-COHE >= 8.0000   WALL NO.   1
ITEM NO. 8<U-COHE >= 10.000   WALL NO.   2
ITEM NO. 9<U-FRICT >= 21.315   WALL NO.   1
ITEM NO. 9<U-FRICT >= 26.000   WALL NO.   2
ITEM NO. 10<U-KA   >= 0.61300   WALL NO.   1
ITEM NO. 11<U-KP   >= 2.6490   WALL NO.   1
ITEM NO. 12<K0-NC   >= 0.56200   (BOTH WALLS)

ITEM NO. 13<NEXP   >= 0.50000   (BOTH WALLS)
ITEM NO. 14<OCR   >= 1.0000   (BOTH WALLS)
ITEM NO. 16<MODEL   >= 1.0000   (BOTH WALLS)
ITEM NO. 17<EVC   >= 0.20000E+06 (BOTH WALLS)
ITEM NO. 18<EUR   >= 0.60000E+06 (BOTH WALLS)
ITEM NO. 27<U-PERM >= 0.10000E-04 (BOTH WALLS)
ITEM NO. 58<U-TZKZ >= 10000.   (BOTH WALLS)
ITEM NO. 60<U-TZDELT>= 25.000   (BOTH WALLS)
ITEM NO. 61<U-TZALPH>= 0.50000   (BOTH WALLS)
ITEM NO. 82<D-NATURE>= 1.0000   (BOTH WALLS)
ITEM NO. 83<D-LEVEL >= 0.0000   (BOTH WALLS)
ITEM NO. 88<D-COHE >= 8.0000   WALL NO.   1
ITEM NO. 88<D-COHE >= 10.000   WALL NO.   2
ITEM NO. 89<D-FRICT >= 21.315   WALL NO.   1
ITEM NO. 89<D-FRICT >= 26.000   WALL NO.   2
ITEM NO. 90<D-KA   >= 0.46700   WALL NO.   1
ITEM NO. 91<D-KP   >= 2.6490   WALL NO.   1
ITEM NO. 107<D-PERM >= 0.10000E-04 (BOTH WALLS)
ITEM NO. 138<D-TZKZ >= 10000.   (BOTH WALLS)
ITEM NO. 140<D-TZDELT>= 25.000   (BOTH WALLS)
ITEM NO. 141<D-TZALPH>= 0.50000   (BOTH WALLS)

 NON ZERO LAYER DESCRIPTORS FOR LAYER NO.   3 FOR STEP NO.   2

ITEM NO.   1<NAME   >= 14.000   (BOTH WALLS)
ITEM NO.   2<NATURE >= 1.0000   (BOTH WALLS)
ITEM NO.   3<LEVEL   >= 331.00   (BOTH WALLS)
ITEM NO.   4<WALL   >= 1.0000   (BOTH WALLS)
ITEM NO.   5<GAMMAD >= 22.500   (BOTH WALLS)
ITEM NO.   6<GAMMAB >= 12.500   (BOTH WALLS)
ITEM NO.   7<GAMMAW >= 10.000   (BOTH WALLS)
ITEM NO.   8<U-COHE >= 40.000   WALL NO.   1
ITEM NO.   8<U-COHE >= 50.000   WALL NO.   2
ITEM NO.   9<U-FRICT >= 22.177   WALL NO.   1
ITEM NO.   9<U-FRICT >= 27.000   WALL NO.   2
ITEM NO. 10<U-KA   >= 0.61100   WALL NO.   1
ITEM NO. 11<U-KP   >= 2.7700   WALL NO.   1
ITEM NO. 12<K0-NC   >= 0.50000   (BOTH WALLS)
ITEM NO. 13<NEXP   >= 0.50000   (BOTH WALLS)
ITEM NO. 14<OCR   >= 1.0000   (BOTH WALLS)
ITEM NO. 16<MODEL   >= 1.0000   (BOTH WALLS)
ITEM NO. 17<EVC   >= 0.10000E+06 (BOTH WALLS)
ITEM NO. 18<EUR   >= 0.30000E+06 (BOTH WALLS)
ITEM NO. 27<U-PERM >= 0.10000E-03 (BOTH WALLS)
ITEM NO. 58<U-TZKZ >= 20000.   (BOTH WALLS)
ITEM NO. 60<U-TZDELT>= 30.000   (BOTH WALLS)
ITEM NO. 61<U-TZALPH>= 0.50000   (BOTH WALLS)
ITEM NO. 82<D-NATURE>= 1.0000   (BOTH WALLS)
ITEM NO. 83<D-LEVEL >= 0.0000   (BOTH WALLS)
ITEM NO. 88<D-COHE >= 40.000   WALL NO.   1
ITEM NO. 88<D-COHE >= 50.000   WALL NO.   2
ITEM NO. 89<D-FRICT >= 22.177   WALL NO.   1
ITEM NO. 89<D-FRICT >= 27.000   WALL NO.   2
ITEM NO. 90<D-KA   >= 0.45200   WALL NO.   1
ITEM NO. 91<D-KP   >= 2.7700   WALL NO.   1
ITEM NO. 107<D-PERM >= 0.10000E-03 (BOTH WALLS)
ITEM NO. 138<D-TZKZ >= 20000.   (BOTH WALLS)
ITEM NO. 140<D-TZDELT>= 30.000   (BOTH WALLS)
ITEM NO. 141<D-TZALPH>= 0.50000   (BOTH WALLS)

LAYER DESCRIPTORS FOR STEP NO.   3

 NON ZERO LAYER DESCRIPTORS FOR LAYER NO.   1 FOR STEP NO.   3

ITEM NO.   1<NAME   >= 12.000   (BOTH WALLS)
ITEM NO.   2<NATURE >= 1.0000   (BOTH WALLS)
ITEM NO.   3<LEVEL   >= 343.00   (BOTH WALLS)
ITEM NO.   4<WALL   >= 1.0000   (BOTH WALLS)
ITEM NO.   5<GAMMAD >= 19.000   (BOTH WALLS)
ITEM NO.   6<GAMMAB >= 9.0000   (BOTH WALLS)
ITEM NO.   7<GAMMAW >= 10.000   (BOTH WALLS)
ITEM NO.   8<U-COHE >= 8.0000   WALL NO.   1
ITEM NO.   8<U-COHE >= 10.000   WALL NO.   2
ITEM NO.   9<U-FRICT >= 25.673   WALL NO.   1
ITEM NO.   9<U-FRICT >= 31.000   WALL NO.   2
ITEM NO. 10<U-KA   >= 0.39900   WALL NO.   1
ITEM NO. 11<U-KP   >= 3.3430   WALL NO.   1
ITEM NO. 12<K0-NC   >= 0.50000   (BOTH WALLS)
ITEM NO. 13<NEXP   >= 0.50000   (BOTH WALLS)
ITEM NO. 14<OCR   >= 1.0000   (BOTH WALLS)
ITEM NO. 16<MODEL   >= 1.0000   (BOTH WALLS)
ITEM NO. 17<EVC   >= 40000.   (BOTH WALLS)
ITEM NO. 18<EUR   >= 0.12000E+06 (BOTH WALLS)
ITEM NO. 27<U-PERM >= 0.10000E-04 (BOTH WALLS)
ITEM NO. 58<U-TZKZ >= 10000.   (BOTH WALLS)
ITEM NO. 60<U-TZDELT>= 25.000   (BOTH WALLS)
ITEM NO. 61<U-TZALPH>= 0.50000   (BOTH WALLS)
ITEM NO. 82<D-NATURE>= 1.0000   (BOTH WALLS)
ITEM NO. 83<D-LEVEL >= 343.00   (BOTH WALLS)
ITEM NO. 88<D-COHE >= 8.0000   WALL NO.   1
ITEM NO. 88<D-COHE >= 10.000   WALL NO.   2

```
ITEM NO.  89&lt;D-FRICT &gt;=  25.673     WALL NO.        1
ITEM NO.  89&lt;D-FRICT &gt;=  31.000     WALL NO.        2
ITEM NO.  90&lt;D-KA    &gt;= 0.39500     WALL NO.        1
ITEM NO.  91&lt;D-KP    &gt;=  3.3430     WALL NO.        1
ITEM NO. 107&lt;D-PERM  &gt;= 0.10000E-04 (BOTH WALLS)
ITEM NO. 138&lt;D-TZKZ  &gt;=  10000.     (BOTH WALLS)
ITEM NO. 140&lt;D-TZDELT&gt;=  25.000     (BOTH WALLS)
ITEM NO. 141&lt;D-TZALPH&gt;= 0.50000     (BOTH WALLS)

 NON ZERO LAYER DESCRIPTORS FOR LAYER NO.    2 FOR STEP NO.    3

ITEM NO.   1&lt;NAME    &gt;=  13.000     (BOTH WALLS)
ITEM NO.   2&lt;NATURE  &gt;=  1.0000     (BOTH WALLS)
ITEM NO.   3&lt;LEVEL   &gt;=  335.00     (BOTH WALLS)
ITEM NO.   4&lt;WALL    &gt;=  1.0000     (BOTH WALLS)
ITEM NO.   5&lt;GAMMAD  &gt;=  20.000     (BOTH WALLS)
ITEM NO.   6&lt;GAMMAB  &gt;=  10.000     (BOTH WALLS)
ITEM NO.   7&lt;GAMMAW  &gt;=  10.000     (BOTH WALLS)
ITEM NO.   8&lt;U-COHE  &gt;=  8.0000     WALL NO.        1
ITEM NO.   8&lt;U-COHE  &gt;=  10.000     WALL NO.        2
ITEM NO.   9&lt;U-FRICT &gt;=  21.315     WALL NO.        1
ITEM NO.   9&lt;U-FRICT &gt;=  26.000     WALL NO.        2
ITEM NO.  10&lt;U-KA    &gt;= 0.61300     WALL NO.        1
ITEM NO.  11&lt;U-KP    &gt;=  2.6490     WALL NO.        1
ITEM NO.  12&lt;K0-NC   &gt;= 0.56200     (BOTH WALLS)
ITEM NO.  13&lt;NEXP    &gt;= 0.50000     (BOTH WALLS)
ITEM NO.  14&lt;OCR     &gt;=  1.0000     (BOTH WALLS)
ITEM NO.  16&lt;MODEL   &gt;=  1.0000     (BOTH WALLS)
ITEM NO.  17&lt;EVC     &gt;= 0.20000E+06 (BOTH WALLS)
ITEM NO.  18&lt;EUR     &gt;= 0.60000E+06 (BOTH WALLS)
ITEM NO.  27&lt;U-PERM  &gt;= 0.10000E-04 (BOTH WALLS)
ITEM NO.  58&lt;U-TZKZ  &gt;=  10000.     (BOTH WALLS)
ITEM NO.  60&lt;U-TZDELT&gt;=  25.000     (BOTH WALLS)
ITEM NO.  61&lt;U-TZALPH&gt;= 0.50000     (BOTH WALLS)
ITEM NO.  82&lt;D-NATURE&gt;=  1.0000     (BOTH WALLS)
ITEM NO.  83&lt;D-LEVEL &gt;=  0.0000     (BOTH WALLS)
ITEM NO.  88&lt;D-COHE  &gt;=  8.0000     WALL NO.        1
ITEM NO.  88&lt;D-COHE  &gt;=  10.000     WALL NO.        2
ITEM NO.  89&lt;D-FRICT &gt;=  21.315     WALL NO.        1
ITEM NO.  89&lt;D-FRICT &gt;=  26.000     WALL NO.        2
ITEM NO.  90&lt;D-KA    &gt;= 0.46700     WALL NO.        1
ITEM NO.  91&lt;D-KP    &gt;=  2.6490     WALL NO.        1
ITEM NO. 107&lt;D-PERM  &gt;= 0.10000E-04 (BOTH WALLS)
ITEM NO. 138&lt;D-TZKZ  &gt;=  10000.     (BOTH WALLS)
ITEM NO. 140&lt;D-TZDELT&gt;=  25.000     (BOTH WALLS)
ITEM NO. 141&lt;D-TZALPH&gt;= 0.50000     (BOTH WALLS)

 NON ZERO LAYER DESCRIPTORS FOR LAYER NO.    3 FOR STEP NO.    3

ITEM NO.   1&lt;NAME    &gt;=  14.000     (BOTH WALLS)
ITEM NO.   2&lt;NATURE  &gt;=  1.0000     (BOTH WALLS)
ITEM NO.   3&lt;LEVEL   &gt;=  331.00     (BOTH WALLS)
ITEM NO.   4&lt;WALL    &gt;=  1.0000     (BOTH WALLS)
ITEM NO.   5&lt;GAMMAD  &gt;=  22.500     (BOTH WALLS)
ITEM NO.   6&lt;GAMMAB  &gt;=  12.500     (BOTH WALLS)
ITEM NO.   7&lt;GAMMAW  &gt;=  10.000     (BOTH WALLS)
ITEM NO.   8&lt;U-COHE  &gt;=  40.000     WALL NO.        1
ITEM NO.   8&lt;U-COHE  &gt;=  50.000     WALL NO.        2
ITEM NO.   9&lt;U-FRICT &gt;=  22.177     WALL NO.        1
ITEM NO.   9&lt;U-FRICT &gt;=  27.000     WALL NO.        2
ITEM NO.  10&lt;U-KA    &gt;= 0.61100     WALL NO.        1
ITEM NO.  11&lt;U-KP    &gt;=  2.7700     WALL NO.        1
ITEM NO.  12&lt;K0-NC   &gt;= 0.50000     (BOTH WALLS)
ITEM NO.  13&lt;NEXP    &gt;= 0.50000     (BOTH WALLS)
ITEM NO.  14&lt;OCR     &gt;=  1.0000     (BOTH WALLS)
ITEM NO.  16&lt;MODEL   &gt;=  1.0000     (BOTH WALLS)
ITEM NO.  17&lt;EVC     &gt;= 0.10000E+06 (BOTH WALLS)
ITEM NO.  18&lt;EUR     &gt;= 0.30000E+06 (BOTH WALLS)
ITEM NO.  27&lt;U-PERM  &gt;= 0.10000E-03 (BOTH WALLS)
ITEM NO.  58&lt;U-TZKZ  &gt;=  20000.     (BOTH WALLS)
ITEM NO.  60&lt;U-TZDELT&gt;=  30.000     (BOTH WALLS)
ITEM NO.  61&lt;U-TZALPH&gt;= 0.50000     (BOTH WALLS)
ITEM NO.  82&lt;D-NATURE&gt;=  1.0000     (BOTH WALLS)
ITEM NO.  83&lt;D-LEVEL &gt;=  0.0000     (BOTH WALLS)
ITEM NO.  88&lt;D-COHE  &gt;=  40.000     WALL NO.        1
ITEM NO.  88&lt;D-COHE  &gt;=  50.000     WALL NO.        2
ITEM NO.  89&lt;D-FRICT &gt;=  22.177     WALL NO.        1
ITEM NO.  89&lt;D-FRICT &gt;=  27.000     WALL NO.        2
ITEM NO.  90&lt;D-KA    &gt;= 0.45200     WALL NO.        1
ITEM NO.  91&lt;D-KP    &gt;=  2.7700     WALL NO.        1
ITEM NO. 107&lt;D-PERM  &gt;= 0.10000E-03 (BOTH WALLS)
ITEM NO. 138&lt;D-TZKZ  &gt;=  20000.     (BOTH WALLS)
ITEM NO. 140&lt;D-TZDELT&gt;=  30.000     (BOTH WALLS)
ITEM NO. 141&lt;D-TZALPH&gt;= 0.50000     (BOTH WALLS)

LAYER DESCRIPTORS FOR STEP NO.    4


 NON ZERO LAYER DESCRIPTORS FOR LAYER NO.    1 FOR STEP NO.    4

ITEM NO.   1&lt;NAME    &gt;=  12.000     (BOTH WALLS)
ITEM NO.   2&lt;NATURE  &gt;=  1.0000     (BOTH WALLS)
```

ITEM NO. 3<LEVEL >= 343.00 (BOTH WALLS)
ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)
ITEM NO. 5<GAMMAD >= 19.000 (BOTH WALLS)
ITEM NO. 6<GAMMAB >= 9.0000 (BOTH WALLS)
ITEM NO. 7<GAMMAW >= 10.000 (BOTH WALLS)
ITEM NO. 8<U-COHE >= 8.0000 WALL NO. 1
ITEM NO. 8<U-COHE >= 10.000 WALL NO. 2
ITEM NO. 9<U-FRICT >= 25.673 WALL NO. 1
ITEM NO. 9<U-FRICT >= 31.000 WALL NO. 2
ITEM NO. 10<U-KA >= 0.39900 WALL NO. 1
ITEM NO. 11<U-KP >= 3.3430 WALL NO. 1
ITEM NO. 12<K0-NC >= 0.50000 (BOTH WALLS)
ITEM NO. 13<NEXP >= 0.50000 (BOTH WALLS)
ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)
ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)
ITEM NO. 17<EVC >= 40000. (BOTH WALLS)
ITEM NO. 18<EUR >= 0.12000E+06 (BOTH WALLS)
ITEM NO. 27<U-PERM >= 0.10000E-04 (BOTH WALLS)
ITEM NO. 47<U-KAED >= 0.53420 WALL NO. 1
ITEM NO. 48<U-KAEW >= 0.70369 WALL NO. 1
ITEM NO. 49<U-KPED >= 3.2181 WALL NO. 1
ITEM NO. 50<U-KPEW >= 2.6635 WALL NO. 1
ITEM NO. 58<U-TZKZ >= 10000. (BOTH WALLS)
ITEM NO. 60<U-TZDELT>= 25.000 (BOTH WALLS)
ITEM NO. 61<U-TZALPH>= 0.50000 (BOTH WALLS)
ITEM NO. 82<D-NATURE>= 1.0000 (BOTH WALLS)
ITEM NO. 83<D-LEVEL >= 343.00 (BOTH WALLS)
ITEM NO. 88<D-COHE >= 8.0000 WALL NO. 1
ITEM NO. 88<D-COHE >= 10.000 WALL NO. 2
ITEM NO. 89<D-FRICT >= 25.673 WALL NO. 1
ITEM NO. 89<D-FRICT >= 31.000 WALL NO. 2
ITEM NO. 90<D-KA >= 0.39500 WALL NO. 1
ITEM NO. 91<D-KP >= 3.3430 WALL NO. 1
ITEM NO. 107<D-PERM >= 0.10000E-04 (BOTH WALLS)
ITEM NO. 127<D-KAED >= 0.47385 WALL NO. 1
ITEM NO. 128<D-KAEW >= 0.65653 WALL NO. 1
ITEM NO. 129<D-KPED >= 2.7226 WALL NO. 1
ITEM NO. 130<D-KPEW >= 2.1300 WALL NO. 1
ITEM NO. 138<D-TZKZ >= 10000. (BOTH WALLS)
ITEM NO. 140<D-TZDELT>= 25.000 (BOTH WALLS)
ITEM NO. 141<D-TZALPH>= 0.50000 (BOTH WALLS)

 NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 2 FOR STEP NO. 4

ITEM NO. 1<NAME >= 13.000 (BOTH WALLS)
ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
ITEM NO. 3<LEVEL >= 335.00 (BOTH WALLS)
ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)
ITEM NO. 5<GAMMAD >= 20.000 (BOTH WALLS)
ITEM NO. 6<GAMMAB >= 10.000 (BOTH WALLS)
ITEM NO. 7<GAMMAW >= 10.000 (BOTH WALLS)
ITEM NO. 8<U-COHE >= 8.0000 WALL NO. 1
ITEM NO. 8<U-COHE >= 10.000 WALL NO. 2
ITEM NO. 9<U-FRICT >= 21.315 WALL NO. 1
ITEM NO. 9<U-FRICT >= 26.000 WALL NO. 2
ITEM NO. 10<U-KA >= 0.61300 WALL NO. 1
ITEM NO. 11<U-KP >= 2.6490 WALL NO. 1
ITEM NO. 12<K0-NC >= 0.56200 (BOTH WALLS)
ITEM NO. 13<NEXP >= 0.50000 (BOTH WALLS)
ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)
ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)
ITEM NO. 17<EVC >= 0.20000E+06 (BOTH WALLS)
ITEM NO. 18<EUR >= 0.60000E+06 (BOTH WALLS)
ITEM NO. 27<U-PERM >= 0.10000E-04 (BOTH WALLS)
ITEM NO. 47<U-KAED >= 1.0319 WALL NO. 1
ITEM NO. 48<U-KAEW >= 1.1381 WALL NO. 1
ITEM NO. 49<U-KPED >= 2.5176 WALL NO. 1
ITEM NO. 50<U-KPEW >= 2.0564 WALL NO. 1
ITEM NO. 58<U-TZKZ >= 10000. (BOTH WALLS)
ITEM NO. 60<U-TZDELT>= 25.000 (BOTH WALLS)
ITEM NO. 61<U-TZALPH>= 0.50000 (BOTH WALLS)
ITEM NO. 82<D-NATURE>= 1.0000 (BOTH WALLS)
ITEM NO. 83<D-LEVEL >= 0.0000 (BOTH WALLS)
ITEM NO. 88<D-COHE >= 8.0000 WALL NO. 1
ITEM NO. 88<D-COHE >= 10.000 WALL NO. 2
ITEM NO. 89<D-FRICT >= 21.315 WALL NO. 1
ITEM NO. 89<D-FRICT >= 26.000 WALL NO. 2
ITEM NO. 90<D-KA >= 0.46700 WALL NO. 1
ITEM NO. 91<D-KP >= 2.6490 WALL NO. 1
ITEM NO. 107<D-PERM >= 0.10000E-04 (BOTH WALLS)
ITEM NO. 127<D-KAED >= 0.55174 WALL NO. 1
ITEM NO. 128<D-KAEW >= 0.75204 WALL NO. 1
ITEM NO. 129<D-KPED >= 2.1226 WALL NO. 1
ITEM NO. 130<D-KPEW >= 1.6144 WALL NO. 1
ITEM NO. 138<D-TZKZ >= 10000. (BOTH WALLS)
ITEM NO. 140<D-TZDELT>= 25.000 (BOTH WALLS)
ITEM NO. 141<D-TZALPH>= 0.50000 (BOTH WALLS)

 NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 3 FOR STEP NO. 4

ITEM NO. 1<NAME >= 14.000 (BOTH WALLS)
ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)

ITEM NO. 3<LEVEL >= 331.00 (BOTH WALLS)
ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)
ITEM NO. 5<GAMMAD >= 22.500 (BOTH WALLS)
ITEM NO. 6<GAMMAB >= 12.500 (BOTH WALLS)
ITEM NO. 7<GAMMAW >= 10.000 (BOTH WALLS)
ITEM NO. 8<U-COHE >= 40.000 WALL NO. 1
ITEM NO. 8<U-COHE >= 50.000 WALL NO. 2
ITEM NO. 9<U-FRICT >= 22.177 WALL NO. 1
ITEM NO. 9<U-FRICT >= 27.000 WALL NO. 2
ITEM NO. 10<U-KA >= 0.61100 WALL NO. 1
ITEM NO. 11<U-KP >= 2.7700 WALL NO. 1
ITEM NO. 12<K0-NC >= 0.50000 (BOTH WALLS)
ITEM NO. 13<NEXP >= 0.50000 (BOTH WALLS)
ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)
ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)
ITEM NO. 17<EVC >= 0.10000E+06 (BOTH WALLS)
ITEM NO. 18<EUR >= 0.30000E+06 (BOTH WALLS)
ITEM NO. 27<U-PERM >= 0.10000E-03 (BOTH WALLS)
ITEM NO. 47<U-KAED >= 1.0244 WALL NO. 1
ITEM NO. 48<U-KAEW >= 1.1124 WALL NO. 1
ITEM NO. 49<U-KPED >= 2.6410 WALL NO. 1
ITEM NO. 50<U-KPEW >= 2.2816 WALL NO. 1
ITEM NO. 58<U-TZKZ >= 20000. (BOTH WALLS)
ITEM NO. 60<U-TZDELT>= 30.000 (BOTH WALLS)
ITEM NO. 61<U-TZALPH>= 0.50000 (BOTH WALLS)
ITEM NO. 82<D-NATURE>= 1.0000 (BOTH WALLS)
ITEM NO. 83<D-LEVEL >= 0.0000 (BOTH WALLS)
ITEM NO. 88<D-COHE >= 40.000 WALL NO. 1
ITEM NO. 88<D-COHE >= 50.000 WALL NO. 2
ITEM NO. 89<D-FRICT >= 22.177 WALL NO. 1
ITEM NO. 89<D-FRICT >= 27.000 WALL NO. 2
ITEM NO. 90<D-KA >= 0.45200 WALL NO. 1
ITEM NO. 91<D-KP >= 2.7700 WALL NO. 1
ITEM NO. 107<D-PERM >= 0.10000E-03 (BOTH WALLS)
ITEM NO. 127<D-KAED >= 0.53598 WALL NO. 1
ITEM NO. 128<D-KAEW >= 0.67600 WALL NO. 1
ITEM NO. 129<D-KPED >= 2.2283 WALL NO. 1
ITEM NO. 130<D-KPEW >= 1.8416 WALL NO. 1
ITEM NO. 138<D-TZKZ >= 20000. (BOTH WALLS)
ITEM NO. 140<D-TZDELT>= 30.000 (BOTH WALLS)
ITEM NO. 141<D-TZALPH>= 0.50000 (BOTH WALLS)

DEFAULT WATER UNIT WEIGHT = 10.000
AVERAGED ON   12 VALUES

```
+-----------------------------------------------------------------------------------------------------------------------+
|                   PARATIEPLUS(TM)   NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*             |
|                                                                                                                       |
|                                                ParatiePlus                                                            |
|                                  Exe Time :28 January 2022   16:22:52                                                 |
+-----------------------------------------------------------------------------------------------------------------------+

PHASE DESCRIPTORS


STEP  NO.     1 no. of subincrements     1
                                       LEFT WALL    RIGHT WALL
Y                                       10.00       -0.9990E+30
Z-PC                                    343.0         0.000
Z-EXCAVATION                            343.0         0.000
Z-WATER_TABLE                           337.5       -0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL               0.000         0.000
ZQ                                      0.000         0.000
DZW_OF_THE_WATER_TABLE                 -0.6605E-01    0.000
QS_ON_THE_EXCAVATION_SIDE               0.000         0.000
ZQS                                     0.000       -0.9990E+30
ZCUT                                    0.000         0.000
BALANCE LEVEL FOR PORE PRESSURES        324.0         324.0
WATER_BEHAVIOUR_FLAG (LINING OPT)       0.000         0.000
PORE_UPDATE_FLAG                        0.000         0.000
PORE_TAB. _FLAG (gt.0= use tabs)        0.000         0.000
lateral thrusts reduction elevatio      0.000         0.000
Downhill reduction factor for effe      0.000         0.000
Downhill reduction factor for pore      0.000         0.000
Uphill reduction factor for effect      0.000         0.000
Uphill reduction factor for pore p      0.000         0.000
SEISMIC HORIZONTAL ACCEL. Kh [g]        0.000         0.000
UPHILL VERTICAL ACCEL.  Kv_uh [g]       0.000         0.000
DOWNHILL VERTICAL ACCEL.Kv_dh [g]       0.000         0.000
UPHILL BETA ANGLE (SLOPE) [deg]         0.000         0.000
UPHILL DELTA/PHI RATIO                  0.000         0.000
DOWNHILL BETA ANGLE (SLOPE) [deg]       0.000         0.000
DOWNHILL DELTA/PHI RATIO                0.000         0.000
DYN.WATER BEHAVIOUR                     0.000         0.000
Excess pore pressure RATIO Ru           0.000         0.000
SEISMIC PRESSURE LOWER VALUE            0.000         0.000
SEISMIC PRESSURE UPPER VALUE            0.000         0.000
SEISMIC PRESSURE LOWER LEVEL            0.000         0.000
SEISMIC PRESSURE UPPER LEVEL            0.000         0.000

=============================================================================================================end of step    1


STEP  NO.     2 no. of subincrements     1
                                       LEFT WALL    RIGHT WALL
Y                                       10.00       -0.9990E+30
Z-PC                                    339.0         0.000
Z-EXCAVATION                            339.0         0.000
Z-WATER_TABLE                           337.5       -0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL               0.000         0.000
ZQ                                      0.000         0.000
DZW_OF_THE_WATER_TABLE                 -0.3933E-01    0.000
QS_ON_THE_EXCAVATION_SIDE               0.000         0.000
ZQS                                     0.000       -0.9990E+30
ZCUT                                    0.000         0.000
BALANCE LEVEL FOR PORE PRESSURES        324.0         324.0
WATER_BEHAVIOUR_FLAG (LINING OPT)       0.000         0.000
PORE_UPDATE_FLAG                        0.000         0.000
PORE_TAB. _FLAG (gt.0= use tabs)        0.000         0.000
lateral thrusts reduction elevatio      0.000         0.000
Downhill reduction factor for effe      0.000         0.000
Downhill reduction factor for pore      0.000         0.000
Uphill reduction factor for effect      0.000         0.000
Uphill reduction factor for pore p      0.000         0.000
SEISMIC HORIZONTAL ACCEL. Kh [g]        0.000         0.000
UPHILL VERTICAL ACCEL.  Kv_uh [g]       0.000         0.000
DOWNHILL VERTICAL ACCEL.Kv_dh [g]       0.000         0.000
UPHILL BETA ANGLE (SLOPE) [deg]         0.000         0.000
UPHILL DELTA/PHI RATIO                  0.000         0.000
DOWNHILL BETA ANGLE (SLOPE) [deg]       0.000         0.000
DOWNHILL DELTA/PHI RATIO                0.000         0.000
DYN.WATER BEHAVIOUR                     0.000         0.000
Excess pore pressure RATIO Ru           0.000         0.000
SEISMIC PRESSURE LOWER VALUE            0.000         0.000
SEISMIC PRESSURE UPPER VALUE            0.000         0.000
SEISMIC PRESSURE LOWER LEVEL            0.000         0.000
SEISMIC PRESSURE UPPER LEVEL            0.000         0.000

=============================================================================================================end of step    2


STEP  NO.     3 no. of subincrements     1
                                       LEFT WALL    RIGHT WALL
Y                                       10.00       -0.9990E+30
```

Z-PC	339.0	0.000
Z-EXCAVATION	333.0	0.000
Z-WATER_TABLE	337.5	-0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL	0.000	0.000
ZQ	0.000	0.000
DZW_OF_THE_WATER_TABLE	4.973	0.000
QS_ON_THE_EXCAVATION_SIDE	0.000	0.000
ZQS	0.000	-0.9990E+30
ZCUT	0.000	0.000
BALANCE LEVEL FOR PORE PRESSURES	324.0	324.0
WATER_BEHAVIOUR_FLAG (LINING OPT)	0.000	0.000
PORE_UPDATE_FLAG	0.000	0.000
PORE_TAB. _FLAG (gt.0= use tabs)	0.000	0.000
lateral thrusts reduction elevatio	0.000	0.000
Downhill reduction factor for effe	0.000	0.000
Downhill reduction factor for pore	0.000	0.000
Uphill reduction factor for effect	0.000	0.000
Uphill reduction factor for pore p	0.000	0.000
SEISMIC HORIZONTAL ACCEL. Kh [g]	0.000	0.000
UPHILL VERTICAL ACCEL. Kv_uh [g]	0.000	0.000
DOWNHILL VERTICAL ACCEL.Kv_dh [g]	0.000	0.000
UPHILL BETA ANGLE (SLOPE) [deg]	0.000	0.000
UPHILL DELTA/PHI RATIO	0.000	0.000
DOWNHILL BETA ANGLE (SLOPE) [deg]	0.000	0.000
DOWNHILL DELTA/PHI RATIO	0.000	0.000
DYN.WATER BEHAVIOUR	0.000	0.000
Excess pore pressure RATIO Ru	0.000	0.000
SEISMIC PRESSURE LOWER VALUE	0.000	0.000
SEISMIC PRESSURE UPPER VALUE	0.000	0.000
SEISMIC PRESSURE LOWER LEVEL	0.000	0.000
SEISMIC PRESSURE UPPER LEVEL	0.000	0.000

==========end of step   3

STEP NO.   4 no. of subincrements   1

	LEFT WALL	RIGHT WALL
Y	10.00	-0.9990E+30
Z-PC	339.0	0.000
Z-EXCAVATION	333.0	0.000
Z-WATER_TABLE	337.5	-0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL	0.000	0.000
ZQ	0.000	0.000
DZW_OF_THE_WATER_TABLE	4.973	0.000
QS_ON_THE_EXCAVATION_SIDE	0.000	0.000
ZQS	0.000	-0.9990E+30
ZCUT	0.000	0.000
BALANCE LEVEL FOR PORE PRESSURES	324.0	324.0
WATER_BEHAVIOUR_FLAG (LINING OPT)	0.000	0.000
PORE_UPDATE_FLAG	0.000	0.000
PORE_TAB. _FLAG (gt.0= use tabs)	0.000	0.000
lateral thrusts reduction elevatio	0.000	0.000
Downhill reduction factor for effe	0.000	0.000
Downhill reduction factor for pore	0.000	0.000
Uphill reduction factor for effect	0.000	0.000
Uphill reduction factor for pore p	0.000	0.000
SEISMIC HORIZONTAL ACCEL. Kh [g]	-0.1454	0.000
	MANUAL	
UPHILL VERTICAL ACCEL. Kv_uh [g]	0.7270E-01	0.000
DOWNHILL VERTICAL ACCEL.Kv_dh [g]	-0.7270E-01	0.000
UPHILL BETA ANGLE (SLOPE) [deg]	0.000	0.000
UPHILL DELTA/PHI RATIO	0.5000	0.000
DOWNHILL BETA ANGLE (SLOPE) [deg]	0.000	0.000
DOWNHILL DELTA/PHI RATIO	0.5000	0.000
DYN.WATER BEHAVIOUR	0.000	0.000
Excess pore pressure RATIO Ru	0.000	0.000
SEISMIC PRESSURE LOWER VALUE	0.000	0.000
SEISMIC PRESSURE UPPER VALUE	0.000	0.000
SEISMIC PRESSURE LOWER LEVEL	0.000	0.000
SEISMIC PRESSURE UPPER LEVEL	0.000	0.000

==========end of step   4

LEFT-HAND WALL

LOWER LEVEL   324.00000
UPPER LEVEL   339.00000

RIGHT-HAND WALL

LOWER LEVEL   324.00000
UPPER LEVEL   339.00000

ELEMENT GROUPS BACKUP AREA CAN STAY IN CORE AT
POSITION   5556

NO. OF D.P.W FOR THIS AREA   11615

```
 MAX NO. OF D.P.W. AVAILABLE      81920
 ** MAX NO OF ITERATIONS SET TO          80

ITER     0 RNORM = 0.000     RMNORM= 0.000
           RINORM=0.1526E+06 RIMNOR= 0.000
           RENORM=0.4913E-01 REMNOR= 0.000     RATIO =0.5675E-03 TOLER =0.1000E-03  NOT CONVERGED
           RFMAX = 51.81     RMMAX = 0.000
           RTSMAL=0.1000E-03 RMSMAL= 0.000
           RDT   =0.1526E+06 RDR   = 0.000
           RATIOT=0.5675E-03 RATIOR= 0.000
           MAX UN= 0.000     IEQ=   152 NODE     76 DOF   2   X-ROT. F
           MIN UN=-.6510E-01 IEQ=    17 NODE      9 DOF   1  Y-DISPL.F
           NO. OF CONTACT CONSTRAINT VIOLATIONS     0


ITER     2 RNORM = 0.000     RMNORM= 0.000
           RINORM=0.1526E+06 RIMNOR= 0.000
           RENORM=0.9466E-27 REMNOR= 0.000     RATIO =0.7877E-16 TOLER =0.1000E-03      CONVERGED !
           RFMAX = 51.81     RMMAX = 0.000
           RTSMAL=0.1000E-03 RMSMAL= 0.000
           RDT   =0.1526E+06 RDR   = 0.000
           RATIOT=0.7877E-16 RATIOR= 0.000
           MAX UN=0.1421E-13 IEQ=    89 NODE     45 DOF   1  Y-DISPL.F
           MIN UN=-.1421E-13 IEQ=   151 NODE     76 DOF   1  Y-DISPL.F
           NO. OF CONTACT CONSTRAINT VIOLATIONS     0
```

```
+-----------------------------------------------------------------------------------------------------------------------+
|                  PARATIEPLUS(TM)   NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*             |
|                                                                                                                       |
|                                                ParatiePlus                                                            |
|                                  Exe Time :28 January 2022   16:22:52                                                 |
+-----------------------------------------------------------------------------------------------------------------------+
New Project
SOLUTION REACHED USING     2 ITERATIONS ON   80

P R I N T   O U T   F O R   T I M E   S T E P   1     ( AT TIME   1.000     ) SUBINCREMENT 00001/00001

PRINT OUT OF ACTIVE COMPONENTS (FIXED NODES ARE NOT PRINTED OUT)

          Y-DISPL.F        X-ROT. F
            02               04
    9  -3.0345875E-06    0.000000
   10  -2.9491050E-06    0.000000
   11  -2.8636224E-06    0.000000
   12  -2.7781399E-06    0.000000
   13  -2.6926574E-06    0.000000
   14  -2.6071321E-06    0.000000
   15  -2.5216495E-06    0.000000
   16  -2.4361670E-06    0.000000
   17  -2.3506844E-06    0.000000
   18  -2.2652019E-06    0.000000
   19  -2.1797194E-06    0.000000
   20  -2.0942368E-06    0.000000
   21  -3.3929547E-07    0.000000
   22  -3.2484953E-07    0.000000
   23  -3.1041081E-07    0.000000
   24  -2.9597209E-07    0.000000
   25  -2.8153337E-07    0.000000
   26  -2.6709465E-07    0.000000
   27  -2.5265593E-07    0.000000
   28  -2.3821721E-07    0.000000
   29  -2.2377849E-07    0.000000
   30  -2.0933256E-07    0.000000
   31  -1.9489384E-07    0.000000
   32  -1.8045512E-07    0.000000
   33  -1.6601640E-07    0.000000
   34  -1.5157768E-07    0.000000
   35  -1.3713896E-07    0.000000
   36  -1.2270024E-07    0.000000
   37  -1.0826152E-07    0.000000
   38  -9.3815580E-08    0.000000
   39  -7.9376861E-08    0.000000
   40  -6.4938141E-08    0.000000
   41  -1.1624659E-07    0.000000
   42  -1.1292502E-07    0.000000
   43  -1.0960345E-07    0.000000
   44  -1.0628189E-07    0.000000
   45  -1.0296032E-07    0.000000
   46  -9.9638748E-08    0.000000
   47  -9.6315519E-08    0.000000
   48  -9.2993951E-08    0.000000
   49  -8.9672382E-08    0.000000
   50  -8.6350814E-08    0.000000
   51  -8.3029245E-08    0.000000
   52  -7.9707677E-08    0.000000
   53  -7.6386109E-08    0.000000
   54  -7.3064540E-08    0.000000
   55  -6.9741311E-08    0.000000
   56  -6.6419743E-08    0.000000
   57  -6.3098174E-08    0.000000
   58  -5.9776606E-08    0.000000
   59  -5.6455037E-08    0.000000
   60  -5.3133469E-08    0.000000
   61  -4.9811901E-08    0.000000
   62  -4.6490332E-08    0.000000
   63  -4.3167103E-08    0.000000
   64  -3.9845535E-08    0.000000
   65  -3.6523966E-08    0.000000
   66  -3.3202398E-08    0.000000
   67  -2.9880829E-08    0.000000
   68  -2.6559261E-08    0.000000
   69  -2.3237693E-08    0.000000
   70  -1.9916124E-08    0.000000
   71  -1.6592895E-08    0.000000
   72  -1.3271327E-08    0.000000
   73  -9.9497582E-09    0.000000
   74  -6.6281898E-09    0.000000
   75  -3.3066213E-09    0.000000
```

```
+-----------------------------------------------------------------------------------------------------------------------+
|                  PARATIEPLUS(TM)   NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*             |
|                                                                                                                       |
|                                            ParatiePlus                                                                |
|                                  Exe Time :28 January 2022   16:22:52                                                 |
+-----------------------------------------------------------------------------------------------------------------------+
New Project


S T R E S S   R E S U L T S   F O R   G R O U P   N O.   1

0_L                                                    :
ELEMENT TYPE    5 NO.OF ELEMENTS. IN THIS GROUP   76
C U R R E N T   T I M E   I S      1.0000 SUBINCREMENT 00001/00001

 HARDENING 2D SOIL ELEMENT

 ****** TOTAL STRESS FORMULATION *****

  EL *   FORCE     DISPL-Y  VERTICAL-P  HORIZON.-P     MAX-V-P     MAX-H-P          STATE   STIFFNESS Z-LEVEL      PORE       E FAC-
TOR    UFACTOR       Peq          Su_a        Su_p        Cohe_a      Cohe_p     LAYER                              ZFO         QS
QSL          ZD          ZPL          Kz
 ------------------------------------------------------------------------------------------------------------------------------------
------------------------------------------------------------------------------------------------------------------------------------
-----------------------------------------------
   1 D   3.800       0.000       76.00       38.00       76.00       38.00            V-C  3.1804E+04   339.0       0.000
1.000       1.000       38.00       0.000       0.000       0.000       0.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   2 D   7.980       0.000       79.80       39.90       79.80       39.90            V-C  3.1804E+04   338.8       0.000
1.000       1.000       39.90       0.000       0.000       0.000       0.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   3 D   8.360       0.000       83.60       41.80       83.60       41.80            V-C  3.1804E+04   338.6       0.000
1.000       1.000       41.80       0.000       0.000       0.000       0.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   4 D   8.740       0.000       87.40       43.70       87.40       43.70            V-C  3.1804E+04   338.4       0.000
1.000       1.000       43.70       0.000       0.000       0.000       0.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   5 D   9.120       0.000       91.20       45.60       91.20       45.60            V-C  3.1804E+04   338.2       0.000
1.000       1.000       45.60       0.000       0.000       0.000       0.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   6 D   9.500       0.000       95.00       47.50       95.00       47.50            V-C  3.1804E+04   338.0       0.000
1.000       1.000       47.50       0.000       0.000       0.000       0.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   7 D   9.880       0.000       98.80       49.40       98.80       49.40            V-C  3.1804E+04   337.8       0.000
1.000       1.000       49.40       0.000       0.000       0.000       0.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   8 D   10.26       0.000       102.6       51.30       102.6       51.30            V-C  3.1804E+04   337.6       0.000
1.000       1.000       51.30       0.000       0.000       0.000       0.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   9 D   10.73     3.0346E-06    105.7       52.95       105.7       52.95            V-C  3.1804E+04   337.4       0.7042
1.000       1.000       53.65       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  10 D   11.31     2.9491E-06    107.5       53.84       107.5       53.84            V-C  3.1804E+04   337.2       2.713
1.000       1.000       56.55       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  11 D   11.89     2.8636E-06    109.3       54.73       109.3       54.73            V-C  3.1804E+04   337.0       4.723
1.000       1.000       59.45       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  12 D   12.47     2.7781E-06    111.1       55.62       111.1       55.62            V-C  3.1804E+04   336.8       6.732
1.000       1.000       62.36       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  13 D   13.05     2.6927E-06    112.9       56.52       112.9       56.52            V-C  3.1804E+04   336.6       8.741
1.000       1.000       65.26       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  14 D   13.63     2.6071E-06    114.7       57.41       114.7       57.41            V-C  3.1804E+04   336.4       10.75
1.000       1.000       68.16       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  15 D   14.21     2.5216E-06    116.4       58.30       116.4       58.30            V-C  3.1804E+04   336.2       12.76
1.000       1.000       71.06       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  16 D   14.79     2.4362E-06    118.2       59.19       118.2       59.19            V-C  3.1804E+04   336.0       14.77
1.000       1.000       73.96       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  17 D   15.37     2.3507E-06    120.0       60.09       120.0       60.09            V-C  3.1804E+04   335.8       16.78
1.000       1.000       76.87       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  18 D   15.95     2.2652E-06    121.8       60.98       121.8       60.98            V-C  3.1804E+04   335.6       18.79
1.000       1.000       79.77       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  19 D   16.53     2.1797E-06    123.6       61.87       123.6       61.87            V-C  3.1804E+04   335.4       20.80
1.000       1.000       82.67       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  20 D   17.11     2.0942E-06    125.4       62.77       125.4       62.77            V-C  3.1804E+04   335.2       22.81
1.000       1.000       85.57       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  21 D   19.27     3.3930E-07    127.2       71.53       127.2       71.53            V-C  1.4636E+05   335.0       24.82
1.000       1.000       96.34       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  22 D   19.89     3.2485E-07    129.2       72.65       129.2       72.65            V-C  1.4636E+05   334.8       26.83
```

```
1.000       1.000       99.47       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  23 D   20.52      3.1041E-07   131.2       73.76       131.2       73.76           V-C  1.4636E+05   334.6       28.83
1.000       1.000       102.6       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  24 D   21.14      2.9597E-07   133.2       74.88       133.2       74.88           V-C  1.4636E+05   334.4       30.84
1.000       1.000       105.7       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  25 D   21.77      2.8153E-07   135.2       76.00       135.2       76.00           V-C  1.4636E+05   334.2       32.85
1.000       1.000       108.9       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  26 D   22.40      2.6709E-07   137.1       77.11       137.1       77.11           V-C  1.4636E+05   334.0       34.86
1.000       1.000       112.0       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  27 D   23.02      2.5266E-07   139.1       78.23       139.1       78.23           V-C  1.4636E+05   333.8       36.87
1.000       1.000       115.1       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  28 D   23.65      2.3822E-07   141.1       79.35       141.1       79.35           V-C  1.4636E+05   333.6       38.88
1.000       1.000       118.2       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  29 D   24.27      2.2378E-07   143.1       80.46       143.1       80.46           V-C  1.4636E+05   333.4       40.89
1.000       1.000       121.4       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  30 D   24.90      2.0933E-07   145.1       81.58       145.1       81.58           V-C  1.4636E+05   333.2       42.90
1.000       1.000       124.5       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  31 D   25.52      1.9489E-07   147.1       82.70       147.1       82.70           V-C  1.4636E+05   333.0       44.91
1.000       1.000       127.6       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  32 D   26.15      1.8046E-07   149.1       83.81       149.1       83.81           V-C  1.4636E+05   332.8       46.92
1.000       1.000       130.7       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  33 D   26.77      1.6602E-07   151.1       84.93       151.1       84.93           V-C  1.4636E+05   332.6       48.93
1.000       1.000       133.9       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  34 D   27.40      1.5158E-07   153.1       86.05       153.1       86.05           V-C  1.4636E+05   332.4       50.94
1.000       1.000       137.0       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  35 D   28.02      1.3714E-07   155.1       87.17       155.1       87.17           V-C  1.4636E+05   332.2       52.95
1.000       1.000       140.1       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  36 D   28.65      1.2270E-07   157.1       88.28       157.1       88.28           V-C  1.4636E+05   332.0       54.95
1.000       1.000       143.2       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  37 D   29.27      1.0826E-07   159.0       89.40       159.0       89.40           V-C  1.4636E+05   331.8       56.96
1.000       1.000       146.4       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  38 D   29.90      9.3816E-08   161.0       90.52       161.0       90.52           V-C  1.4636E+05   331.6       58.97
1.000       1.000       149.5       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  39 D   30.52      7.9377E-08   163.0       91.63       163.0       91.63           V-C  1.4636E+05   331.4       60.98
1.000       1.000       152.6       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  40 D   31.15      6.4938E-08   165.0       92.75       165.0       92.75           V-C  1.4636E+05   331.2       62.99
1.000       1.000       155.7       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  41 D   29.70      1.1625E-07   167.0       83.51       167.0       83.51           V-C  7.4376E+04   331.0       65.00
1.000       1.000       148.5       0.000       0.000       40.00       40.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  42 D   30.35      1.1293E-07   169.5       84.76       169.5       84.76           V-C  7.4376E+04   330.8       67.00
1.000       1.000       151.8       0.000       0.000       40.00       40.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  43 D   31.00      1.0960E-07   172.0       86.01       172.0       86.01           V-C  7.4376E+04   330.6       69.00
1.000       1.000       155.0       0.000       0.000       40.00       40.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  44 D   31.65      1.0628E-07   174.5       87.26       174.5       87.26           V-C  7.4376E+04   330.4       71.00
1.000       1.000       158.3       0.000       0.000       40.00       40.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  45 D   32.30      1.0296E-07   177.0       88.51       177.0       88.51           V-C  7.4376E+04   330.2       73.01
1.000       1.000       161.5       0.000       0.000       40.00       40.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  46 D   32.95      9.9639E-08   179.5       89.76       179.5       89.76           V-C  7.4376E+04   330.0       75.01
1.000       1.000       164.8       0.000       0.000       40.00       40.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  47 D   33.60      9.6316E-08   182.0       91.01       182.0       91.01           V-C  7.4376E+04   329.8       77.01
1.000       1.000       168.0       0.000       0.000       40.00       40.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  48 D   34.25      9.2994E-08   184.5       92.26       184.5       92.26           V-C  7.4376E+04   329.6       79.01
1.000       1.000       171.3       0.000       0.000       40.00       40.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  49 D   34.90      8.9672E-08   187.0       93.51       187.0       93.51           V-C  7.4376E+04   329.4       81.01
1.000       1.000       174.5       0.000       0.000       40.00       40.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  50 D   35.55      8.6351E-08   189.5       94.76       189.5       94.76           V-C  7.4376E+04   329.2       83.01
1.000       1.000       177.8       0.000       0.000       40.00       40.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  51 D   36.20      8.3029E-08   192.0       96.01       192.0       96.01           V-C  7.4376E+04   329.0       85.01
1.000       1.000       181.0       0.000       0.000       40.00       40.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  52 D   36.85      7.9708E-08   194.5       97.26       194.5       97.26           V-C  7.4376E+04   328.8       87.01
1.000       1.000       184.3       0.000       0.000       40.00       40.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
```

53 D	37.50	7.6386E-08	197.0	98.51	197.0	98.51	V-C 7.4376E+04	328.6	89.01	
1.000	1.000	187.5	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
54 D	38.15	7.3065E-08	199.5	99.75	199.5	99.75	V-C 7.4376E+04	328.4	91.01	
1.000	1.000	190.8	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
55 D	38.80	6.9741E-08	202.0	101.0	202.0	101.0	V-C 7.4376E+04	328.2	93.02	
1.000	1.000	194.0	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
56 D	39.45	6.6420E-08	204.5	102.3	204.5	102.3	V-C 7.4376E+04	328.0	95.02	
1.000	1.000	197.3	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
57 D	40.10	6.3098E-08	207.0	103.5	207.0	103.5	V-C 7.4376E+04	327.8	97.02	
1.000	1.000	200.5	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
58 D	40.75	5.9777E-08	209.5	104.8	209.5	104.8	V-C 7.4376E+04	327.6	99.02	
1.000	1.000	203.8	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
59 D	41.40	5.6455E-08	212.0	106.0	212.0	106.0	V-C 7.4376E+04	327.4	101.0	
1.000	1.000	207.0	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
60 D	42.05	5.3133E-08	214.5	107.3	214.5	107.3	V-C 7.4376E+04	327.2	103.0	
1.000	1.000	210.3	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
61 D	42.70	4.9812E-08	217.0	108.5	217.0	108.5	V-C 7.4376E+04	327.0	105.0	
1.000	1.000	213.5	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
62 D	43.35	4.6490E-08	219.5	109.7	219.5	109.7	V-C 7.4376E+04	326.8	107.0	
1.000	1.000	216.8	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
63 D	44.00	4.3167E-08	222.0	111.0	222.0	111.0	V-C 7.4376E+04	326.6	109.0	
1.000	1.000	220.0	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
64 D	44.65	3.9846E-08	224.5	112.2	224.5	112.2	V-C 7.4376E+04	326.4	111.0	
1.000	1.000	223.3	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
65 D	45.31	3.6524E-08	227.0	113.5	227.0	113.5	V-C 7.4376E+04	326.2	113.0	
1.000	1.000	226.5	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
66 D	45.96	3.3202E-08	229.5	114.7	229.5	114.7	V-C 7.4376E+04	326.0	115.0	
1.000	1.000	229.8	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
67 D	46.61	2.9881E-08	232.0	116.0	232.0	116.0	V-C 7.4376E+04	325.8	117.0	
1.000	1.000	233.0	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
68 D	47.26	2.6559E-08	234.5	117.2	234.5	117.2	V-C 7.4376E+04	325.6	119.0	
1.000	1.000	236.3	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
69 D	47.91	2.3238E-08	237.0	118.5	237.0	118.5	V-C 7.4376E+04	325.4	121.0	
1.000	1.000	239.5	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
70 D	48.56	1.9916E-08	239.5	119.7	239.5	119.7	V-C 7.4376E+04	325.2	123.0	
1.000	1.000	242.8	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
71 D	49.21	1.6593E-08	242.0	121.0	242.0	121.0	V-C 7.4376E+04	325.0	125.0	
1.000	1.000	246.0	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
72 D	49.86	1.3271E-08	244.5	122.2	244.5	122.2	V-C 7.4376E+04	324.8	127.0	
1.000	1.000	249.3	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
73 D	50.51	9.9498E-09	247.0	123.5	247.0	123.5	V-C 7.4376E+04	324.6	129.0	
1.000	1.000	252.5	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
74 D	51.16	6.6282E-09	249.5	124.7	249.5	124.7	V-C 7.4376E+04	324.4	131.0	
1.000	1.000	255.8	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
75 D	51.81	3.3066E-09	252.0	126.0	252.0	126.0	V-C 7.4376E+04	324.2	133.0	
1.000	1.000	259.0	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
76 D	26.23	1.0036E-18	254.5	127.2	254.5	127.2	V-C 7.4376E+04	324.0	135.0	
1.000	1.000	262.3	0.000	0.000	0.000	0.000	Pa_244788_244789_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						

```
+-----------------------------------------------------------------------------------------------------------+
|                  PARATIEPLUS(TM)   NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*    |
|                                                                                                           |
|                                                 ParatiePlus                                               |
|                                Exe Time :28 January 2022   16:22:52                                       |
+-----------------------------------------------------------------------------------------------------------+
New Project


S T R E S S    R E S U L T S    F O R    G R O U P  N O.   2

0_R                                                             :
ELEMENT TYPE    5 NO.OF ELEMENTS. IN THIS GROUP   76
C U R R E N T    T I M E    I S      1.0000 SUBINCREMENT 00001/00001

 HARDENING 2D SOIL ELEMENT

 ****** TOTAL STRESS FORMULATION *****

  EL *   FORCE     DISPL-Y  VERTICAL-P  HORIZON.-P     MAX-V-P     MAX-H-P          STATE   STIFFNESS Z-LEVEL      PORE        E FAC-
TOR    UFACTOR       Peq          Su_a        Su_p        Cohe_a      Cohe_p     LAYER                            ZFO         QS
QSL         ZD          ZPL          Kz
 ------------------------------------------------------------------------------------------------------------------------------------
 ------------------------------------------------------------------------------------------------------------------------------------
 ---------------------------------------------
   1 D   3.800      0.000       76.00       38.00       76.00       38.00          V-C  2.5154E+04   339.0       0.000
1.000      1.000      38.00       0.000       0.000       0.000       0.000     Aate_364268_2050_L_0            0.0000
0.0000      0.0000     0.0000      0.0000      0.0000
   2 D   7.980      0.000       79.80       39.90       79.80       39.90          V-C  2.5154E+04   338.8       0.000
1.000      1.000      39.90       0.000       0.000       0.000       0.000     Aate_364268_2050_L_0            0.0000
0.0000      0.0000     0.0000      0.0000      0.0000
   3 D   8.360      0.000       83.60       41.80       83.60       41.80          V-C  2.5154E+04   338.6       0.000
1.000      1.000      41.80       0.000       0.000       0.000       0.000     Aate_364268_2050_L_0            0.0000
0.0000      0.0000     0.0000      0.0000      0.0000
   4 D   8.740      0.000       87.40       43.70       87.40       43.70          V-C  2.5154E+04   338.4       0.000
1.000      1.000      43.70       0.000       0.000       0.000       0.000     Aate_364268_2050_L_0            0.0000
0.0000      0.0000     0.0000      0.0000      0.0000
   5 D   9.120      0.000       91.20       45.60       91.20       45.60          V-C  2.5154E+04   338.2       0.000
1.000      1.000      45.60       0.000       0.000       0.000       0.000     Aate_364268_2050_L_0            0.0000
0.0000      0.0000     0.0000      0.0000      0.0000
   6 D   9.500      0.000       95.00       47.50       95.00       47.50          V-C  2.5154E+04   338.0       0.000
1.000      1.000      47.50       0.000       0.000       0.000       0.000     Aate_364268_2050_L_0            0.0000
0.0000      0.0000     0.0000      0.0000      0.0000
   7 D   9.880      0.000       98.80       49.40       98.80       49.40          V-C  2.5154E+04   337.8       0.000
1.000      1.000      49.40       0.000       0.000       0.000       0.000     Aate_364268_2050_L_0            0.0000
0.0000      0.0000     0.0000      0.0000      0.0000
   8 D   10.26      0.000       102.6       51.30       102.6       51.30          V-C  2.5154E+04   337.6       0.000
1.000      1.000      51.30       0.000       0.000       0.000       0.000     Aate_364268_2050_L_0            0.0000
0.0000      0.0000     0.0000      0.0000      0.0000
   9 D   10.73    -3.0346E-06   105.0       52.29       105.0       52.52        UL-RL  7.5461E+04   337.4       1.355
1.000      1.000      53.65       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0            0.0000
0.0000      0.0000     0.0000      0.0000      0.0000
  10 D   11.31    -2.9491E-06   106.9       53.21       106.9       53.43        UL-RL  7.5461E+04   337.2       3.346
1.000      1.000      56.55       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0            0.0000
0.0000      0.0000     0.0000      0.0000      0.0000
  11 D   11.89    -2.8636E-06   108.7       54.12       108.7       54.33        UL-RL  7.5461E+04   337.0       5.337
1.000      1.000      59.45       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0            0.0000
0.0000      0.0000     0.0000      0.0000      0.0000
  12 D   12.47    -2.7781E-06   110.5       55.03       110.5       55.24        UL-RL  7.5461E+04   336.8       7.328
1.000      1.000      62.36       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0            0.0000
0.0000      0.0000     0.0000      0.0000      0.0000
  13 D   13.05    -2.6927E-06   112.3       55.94       112.3       56.14        UL-RL  7.5461E+04   336.6       9.319
1.000      1.000      65.26       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0            0.0000
0.0000      0.0000     0.0000      0.0000      0.0000
  14 D   13.63    -2.6071E-06   114.1       56.85       114.1       57.05        UL-RL  7.5461E+04   336.4       11.31
1.000      1.000      68.16       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0            0.0000
0.0000      0.0000     0.0000      0.0000      0.0000
  15 D   14.21    -2.5216E-06   115.9       57.76       115.9       57.95        UL-RL  7.5461E+04   336.2       13.30
1.000      1.000      71.06       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0            0.0000
0.0000      0.0000     0.0000      0.0000      0.0000
  16 D   14.79    -2.4362E-06   117.7       58.67       117.7       58.86        UL-RL  7.5461E+04   336.0       15.29
1.000      1.000      73.96       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0            0.0000
0.0000      0.0000     0.0000      0.0000      0.0000
  17 D   15.37    -2.3507E-06   119.5       59.58       119.5       59.76        UL-RL  7.5461E+04   335.8       17.28
1.000      1.000      76.87       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0            0.0000
0.0000      0.0000     0.0000      0.0000      0.0000
  18 D   15.95    -2.2652E-06   121.3       60.49       121.3       60.67        UL-RL  7.5461E+04   335.6       19.27
1.000      1.000      79.77       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0            0.0000
0.0000      0.0000     0.0000      0.0000      0.0000
  19 D   16.53    -2.1797E-06   123.1       61.41       123.1       61.57        UL-RL  7.5461E+04   335.4       21.26
1.000      1.000      82.67       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0            0.0000
0.0000      0.0000     0.0000      0.0000      0.0000
  20 D   17.11    -2.0942E-06   124.9       62.32       124.9       62.47        UL-RL  7.5461E+04   335.2       23.26
1.000      1.000      85.57       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0            0.0000
0.0000      0.0000     0.0000      0.0000      0.0000
  21 D   19.27    -3.3930E-07   126.8       71.10       126.8       71.24        UL-RL  4.0994E+05   335.0       25.25
1.000      1.000      96.34       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0            0.0000
0.0000      0.0000     0.0000      0.0000      0.0000
  22 D   19.89    -3.2485E-07   128.8       72.23       128.8       72.37        UL-RL  4.0994E+05   334.8       27.24
```

```
1.000       1.000       99.47       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  23 D   20.52     -3.1041E-07   130.8       73.37       130.8       73.50          UL-RL  4.0994E+05   334.6       29.23
1.000       1.000       102.6       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  24 D   21.14     -2.9597E-07   132.8       74.50       132.8       74.63          UL-RL  4.0994E+05   334.4       31.22
1.000       1.000       105.7       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  25 D   21.77     -2.8153E-07   134.8       75.64       134.8       75.76          UL-RL  4.0994E+05   334.2       33.21
1.000       1.000       108.9       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  26 D   22.40     -2.6709E-07   136.8       76.77       136.8       76.88          UL-RL  4.0994E+05   334.0       35.20
1.000       1.000       112.0       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  27 D   23.02     -2.5266E-07   138.8       77.91       138.8       78.01          UL-RL  4.0994E+05   333.8       37.19
1.000       1.000       115.1       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  28 D   23.65     -2.3822E-07   140.8       79.04       140.8       79.14          UL-RL  4.0994E+05   333.6       39.18
1.000       1.000       118.2       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  29 D   24.27     -2.2378E-07   142.8       80.18       142.8       80.27          UL-RL  4.0994E+05   333.4       41.17
1.000       1.000       121.4       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  30 D   24.90     -2.0933E-07   144.8       81.32       144.8       81.40          UL-RL  4.0994E+05   333.2       43.17
1.000       1.000       124.5       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  31 D   25.52     -1.9489E-07   146.9       82.45       146.9       82.53          UL-RL  4.0994E+05   333.0       45.16
1.000       1.000       127.6       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  32 D   26.15     -1.8046E-07   148.9       83.59       148.9       83.66          UL-RL  4.0994E+05   332.8       47.15
1.000       1.000       130.7       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  33 D   26.77     -1.6602E-07   150.9       84.72       150.9       84.79          UL-RL  4.0994E+05   332.6       49.14
1.000       1.000       133.9       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  34 D   27.40     -1.5158E-07   152.9       85.86       152.9       85.92          UL-RL  4.0994E+05   332.4       51.13
1.000       1.000       137.0       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  35 D   28.02     -1.3714E-07   154.9       86.99       154.9       87.05          UL-RL  4.0994E+05   332.2       53.12
1.000       1.000       140.1       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  36 D   28.65     -1.2270E-07   156.9       88.13       156.9       88.18          UL-RL  4.0994E+05   332.0       55.11
1.000       1.000       143.2       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  37 D   29.27     -1.0826E-07   158.9       89.26       158.9       89.31          UL-RL  4.0994E+05   331.8       57.10
1.000       1.000       146.4       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  38 D   29.90     -9.3816E-08   160.9       90.40       160.9       90.44          UL-RL  4.0994E+05   331.6       59.09
1.000       1.000       149.5       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  39 D   30.52     -7.9377E-08   162.9       91.53       162.9       91.56          UL-RL  4.0994E+05   331.4       61.08
1.000       1.000       152.6       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  40 D   31.15     -6.4938E-08   164.9       92.67       164.9       92.69          UL-RL  4.0994E+05   331.2       63.07
1.000       1.000       155.7       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  41 D   29.70     -1.1625E-07   166.9       83.45       166.9       83.47          UL-RL  2.0168E+05   331.0       65.07
1.000       1.000       148.5       0.000       0.000       40.00       40.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  42 D   30.35     -1.1293E-07   169.4       84.70       169.4       84.72          UL-RL  2.0168E+05   330.8       67.06
1.000       1.000       151.8       0.000       0.000       40.00       40.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  43 D   31.00     -1.0960E-07   171.9       85.95       171.9       85.97          UL-RL  2.0168E+05   330.6       69.06
1.000       1.000       155.0       0.000       0.000       40.00       40.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  44 D   31.65     -1.0628E-07   174.4       87.20       174.4       87.22          UL-RL  2.0168E+05   330.4       71.06
1.000       1.000       158.3       0.000       0.000       40.00       40.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  45 D   32.30     -1.0296E-07   176.9       88.45       176.9       88.47          UL-RL  2.0168E+05   330.2       73.06
1.000       1.000       161.5       0.000       0.000       40.00       40.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  46 D   32.95     -9.9639E-08   179.5       89.70       179.5       89.73          UL-RL  2.0168E+05   330.0       75.06
1.000       1.000       164.8       0.000       0.000       40.00       40.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  47 D   33.60     -9.6316E-08   182.0       90.96       182.0       90.98          UL-RL  2.0168E+05   329.8       77.06
1.000       1.000       168.0       0.000       0.000       40.00       40.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  48 D   34.25     -9.2994E-08   184.5       92.21       184.5       92.23          UL-RL  2.0168E+05   329.6       79.06
1.000       1.000       171.3       0.000       0.000       40.00       40.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  49 D   34.90     -8.9672E-08   187.0       93.46       187.0       93.48          UL-RL  2.0168E+05   329.4       81.06
1.000       1.000       174.5       0.000       0.000       40.00       40.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  50 D   35.55     -8.6351E-08   189.5       94.71       189.5       94.73          UL-RL  2.0168E+05   329.2       83.06
1.000       1.000       177.8       0.000       0.000       40.00       40.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  51 D   36.20     -8.3029E-08   192.0       95.96       192.0       95.98          UL-RL  2.0168E+05   329.0       85.06
1.000       1.000       181.0       0.000       0.000       40.00       40.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  52 D   36.85     -7.9708E-08   194.5       97.21       194.5       97.23          UL-RL  2.0168E+05   328.8       87.06
1.000       1.000       184.3       0.000       0.000       40.00       40.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
```

53 D	37.50	-7.6386E-08	197.0	98.46	197.0	98.48	UL-RL	2.0168E+05	328.6	89.06
1.000	1.000	187.5	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
54 D	38.15	-7.3065E-08	199.5	99.71	199.5	99.73	UL-RL	2.0168E+05	328.4	91.05
1.000	1.000	190.8	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
55 D	38.80	-6.9741E-08	202.0	101.0	202.0	101.0	UL-RL	2.0168E+05	328.2	93.05
1.000	1.000	194.0	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
56 D	39.45	-6.6420E-08	204.5	102.2	204.5	102.2	UL-RL	2.0168E+05	328.0	95.05
1.000	1.000	197.3	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
57 D	40.10	-6.3098E-08	207.0	103.5	207.0	103.5	UL-RL	2.0168E+05	327.8	97.05
1.000	1.000	200.5	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
58 D	40.75	-5.9777E-08	209.5	104.7	209.5	104.7	UL-RL	2.0168E+05	327.6	99.05
1.000	1.000	203.8	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
59 D	41.40	-5.6455E-08	212.0	106.0	212.0	106.0	UL-RL	2.0168E+05	327.4	101.1
1.000	1.000	207.0	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
60 D	42.05	-5.3133E-08	214.5	107.2	214.5	107.2	UL-RL	2.0168E+05	327.2	103.1
1.000	1.000	210.3	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
61 D	42.70	-4.9812E-08	217.0	108.5	217.0	108.5	UL-RL	2.0168E+05	327.0	105.0
1.000	1.000	213.5	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
62 D	43.35	-4.6490E-08	219.5	109.7	219.5	109.7	UL-RL	2.0168E+05	326.8	107.0
1.000	1.000	216.8	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
63 D	44.00	-4.3167E-08	222.0	111.0	222.0	111.0	UL-RL	2.0168E+05	326.6	109.0
1.000	1.000	220.0	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
64 D	44.65	-3.9846E-08	224.5	112.2	224.5	112.2	UL-RL	2.0168E+05	326.4	111.0
1.000	1.000	223.3	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
65 D	45.31	-3.6524E-08	227.0	113.5	227.0	113.5	UL-RL	2.0168E+05	326.2	113.0
1.000	1.000	226.5	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
66 D	45.96	-3.3202E-08	229.5	114.7	229.5	114.7	UL-RL	2.0168E+05	326.0	115.0
1.000	1.000	229.8	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
67 D	46.61	-2.9881E-08	232.0	116.0	232.0	116.0	UL-RL	2.0168E+05	325.8	117.0
1.000	1.000	233.0	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
68 D	47.26	-2.6559E-08	234.5	117.2	234.5	117.2	UL-RL	2.0168E+05	325.6	119.0
1.000	1.000	236.3	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
69 D	47.91	-2.3238E-08	237.0	118.5	237.0	118.5	UL-RL	2.0168E+05	325.4	121.0
1.000	1.000	239.5	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
70 D	48.56	-1.9916E-08	239.5	119.7	239.5	119.7	UL-RL	2.0168E+05	325.2	123.0
1.000	1.000	242.8	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
71 D	49.21	-1.6593E-08	242.0	121.0	242.0	121.0	UL-RL	2.0168E+05	325.0	125.0
1.000	1.000	246.0	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
72 D	49.86	-1.3271E-08	244.5	122.2	244.5	122.2	UL-RL	2.0168E+05	324.8	127.0
1.000	1.000	249.3	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
73 D	50.51	-9.9498E-09	247.0	123.5	247.0	123.5	UL-RL	2.0168E+05	324.6	129.0
1.000	1.000	252.5	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
74 D	51.16	-6.6282E-09	249.5	124.7	249.5	124.7	UL-RL	2.0168E+05	324.4	131.0
1.000	1.000	255.8	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
75 D	51.81	-3.3066E-09	252.0	126.0	252.0	126.0	UL-RL	2.0168E+05	324.2	133.0
1.000	1.000	259.0	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
76 D	26.23	-1.0036E-18	254.5	127.2	254.5	127.2	V-C	6.7226E+04	324.0	135.0
1.000	1.000	262.3	0.000	0.000	0.000	0.000	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						

```
+-------------------------------------------------------------------------------------------------------------------------+
|                   PARATIEPLUS(TM)   NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*              |
|                                                                                                                         |
|                                                ParatiePlus                                                              |
|                                  Exe Time :28 January 2022   16:22:52                                                   |
+-------------------------------------------------------------------------------------------------------------------------+
New Project


S T R E S S   R E S U L T S   F O R   G R O U P   N O.   3

Pali1500_253215                                              :
ELEMENT TYPE    2 NO.OF ELEMENTS. IN THIS GROUP   75
C U R R E N T   T I M E   I S      1.0000 SUBINCREMENT 00001/00001

 WALL2D ELEMENT

   EL      TA          TB          MA          MB
-------------------------------------------------

***** NO ONE ELEMENT ACTIVE AT CURRENT STEP *****

ITER     0 RNORM = 0.000     RMNORM= 0.000
           RINORM=0.1166E+06 RIMNOR= 0.000
           RENORM=0.1892E-01 REMNOR= 0.000     RATIO =0.4029E-03 TOLER =0.1000E-03  NOT CONVERGED
           RFMAX = 47.65     RMMAX = 0.000
           RTSMAL=0.1000E-03 RMSMAL= 0.000
           RDT   =0.1166E+06 RDR   = 0.000
           RATIOT=0.4029E-03 RATIOR= 0.000
           MAX UN=0.4135E-01 IEQ=    17 NODE      9 DOF   1  Y-DISPL.F
           MIN UN= 0.000     IEQ=     1 NODE      1 DOF   1  Y-DISPL.F
           NO. OF CONTACT CONSTRAINT VIOLATIONS     0


ITER     2 RNORM = 0.000     RMNORM= 0.000
           RINORM=0.1166E+06 RIMNOR= 0.000
           RENORM=0.4955E-22 REMNOR=0.3750E-24 RATIO =0.2062E-13 TOLER =0.1000E-03      CONVERGED !
           RFMAX = 47.65     RMMAX = 0.000
           RTSMAL=0.1000E-03 RMSMAL= 0.000
           RDT   =0.1166E+06 RDR   = 0.000
           RATIOT=0.2062E-13 RATIOR= 0.000
           MAX UN=0.3016E-11 IEQ=    23 NODE     12 DOF   1  Y-DISPL.F
           MIN UN=-.2989E-11 IEQ=    19 NODE     10 DOF   1  Y-DISPL.F
           NO. OF CONTACT CONSTRAINT VIOLATIONS     0
```

```
+-----------------------------------------------------------------------------------------------------------------------+
|                  PARATIEPLUS(TM)   NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*             |
|                                                                                                                       |
|                                                ParatiePlus                                                            |
|                                  Exe Time :28 January 2022   16:22:52                                                 |
+-----------------------------------------------------------------------------------------------------------------------+
New Project
SOLUTION REACHED USING     2 ITERATIONS ON   80

P R I N T   O U T   F O R   T I M E   S T E P   2     ( AT TIME   2.000     ) SUBINCREMENT 00001/00001

PRINT OUT OF ACTIVE COMPONENTS (FIXED NODES ARE NOT PRINTED OUT)

          Y-DISPL.F        X-ROT. F
            02               04
    1   4.6619220E-07  -1.7013805E-08
    2   4.6278819E-07  -1.7032482E-08
    3   4.5937112E-07  -1.7172482E-08
    4   4.5589996E-07  -1.7601122E-08
    5   4.5230036E-07  -1.8484468E-08
    6   4.4846287E-07  -1.9988230E-08
    7   4.4425102E-07  -2.2274341E-08
    8   4.3949014E-07  -2.5505349E-08
    9  -2.6006123E-06  -2.9841602E-08
   10  -2.5216211E-06  -3.5222041E-08
   11  -2.4437874E-06  -4.1372135E-08
   12  -2.3672388E-06  -4.8030911E-08
   13  -2.2920520E-06  -5.4949827E-08
   14  -2.2182186E-06  -6.1895170E-08
   15  -2.1457941E-06  -6.8633235E-08
   16  -2.0746787E-06  -7.4950236E-08
   17  -2.0047672E-06  -8.0637538E-08
   18  -1.9359133E-06  -8.5494389E-08
   19  -1.8679316E-06  -8.9327248E-08
   20  -1.8005984E-06  -9.1949212E-08
   21  -6.4194597E-08  -9.3179540E-08
   22  -6.8401399E-08  -9.3047047E-08
   23  -7.2462265E-08  -9.1777148E-08
   24  -7.6172582E-08  -8.9573690E-08
   25  -7.9364213E-08  -8.6618897E-08
   26  -8.1903379E-08  -8.3074271E-08
   27  -8.3686608E-08  -7.9081537E-08
   28  -8.4636889E-08  -7.4763811E-08
   29  -8.4700085E-08  -7.0226955E-08
   30  -8.3840965E-08  -6.5558692E-08
   31  -8.2042380E-08  -6.0839550E-08
   32  -7.9300018E-08  -5.6130486E-08
   33  -7.5621295E-08  -5.1483825E-08
   34  -7.1023138E-08  -4.6942603E-08
   35  -6.5530286E-08  -4.2542205E-08
   36  -5.9173925E-08  -3.8311965E-08
   37  -5.1990633E-08  -3.4276728E-08
   38  -4.4017460E-08  -3.0456494E-08
   39  -3.5307810E-08  -2.6875378E-08
   40  -2.5907322E-08  -2.3551508E-08
   41  -8.1616704E-08  -2.0506059E-08
   42  -8.2115645E-08  -1.7745896E-08
   43  -8.2090315E-08  -1.5261577E-08
   44  -8.1594762E-08  -1.3041591E-08
   45  -8.0680561E-08  -1.1072804E-08
   46  -7.9396536E-08  -9.3408582E-09
   47  -7.7787664E-08  -7.8298204E-09
   48  -7.5898322E-08  -6.5254112E-09
   49  -7.3767341E-08  -5.4107433E-09
   50  -7.1431056E-08  -4.4696843E-09
   51  -6.8922586E-08  -3.6862490E-09
   52  -6.6271883E-08  -3.0447683E-09
   53  -6.3505806E-08  -2.5300310E-09
   54  -6.0648232E-08  -2.1273990E-09
   55  -5.7718693E-08  -1.8227711E-09
   56  -5.4738416E-08  -1.6032196E-09
   57  -5.1721675E-08  -1.4561313E-09
   58  -4.8681789E-08  -1.3699026E-09
   59  -4.5629840E-08  -1.3337911E-09
   60  -4.2574852E-08  -1.3379313E-09
   61  -3.9523961E-08  -1.3733421E-09
   62  -3.6482597E-08  -1.4319260E-09
   63  -3.3453148E-08  -1.5065039E-09
   64  -3.0441184E-08  -1.5906500E-09
   65  -2.7446545E-08  -1.6789020E-09
   66  -2.4469571E-08  -1.7666041E-09
   67  -2.1509757E-08  -1.8499252E-09
   68  -1.8565911E-08  -1.9258438E-09
   69  -1.5636316E-08  -1.9921334E-09
   70  -1.2718889E-08  -2.0473497E-09
   71  -9.8098842E-09  -2.0908373E-09
   72  -6.9098540E-09  -2.1226397E-09
   73  -4.0150820E-09  -2.1436226E-09
   74  -1.1235509E-09  -2.1553751E-09
```

```
75   1.7663645E-09  -2.1602315E-09
76   4.6427460E-09  -2.1612692E-09
```

```
+-------------------------------------------------------------------------------------------------------------------------------+
|                  PARATIEPLUS(TM)   NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*                      |
|                                                                                                                               |
|                                              ParatiePlus                                                                      |
|                                  Exe Time :28 January 2022   16:22:52                                                         |
+-------------------------------------------------------------------------------------------------------------------------------+
New Project


S T R E S S   R E S U L T S   F O R   G R O U P   N O.   1

0_L                                                    :
ELEMENT TYPE    5 NO.OF ELEMENTS. IN THIS GROUP   76
C U R R E N T   T I M E   I S      2.0000 SUBINCREMENT 00001/00001

 HARDENING 2D SOIL ELEMENT

 ****** TOTAL STRESS FORMULATION *****

  EL *   FORCE      DISPL-Y  VERTICAL-P  HORIZON.-P     MAX-V-P     MAX-H-P          STATE   STIFFNESS Z-LEVEL      PORE       E FAC-
TOR    UFACTOR       Peq          Su_a        Su_p        Cohe_a      Cohe_p     LAYER                                ZFO         QS
QSL          ZD          ZPL          Kz
 ------------------------------------------------------------------------------------------------------------------------------
-------------------------------------------------------------------------------------------------------------------------------
-----------------------------------------------
   1 D   0.000     -4.6619E-07   0.000       0.000       76.00       38.00          ACTIVE   0.000       339.0       0.000
1.000       1.000       0.000       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   2 D   1.733     -4.6279E-07   3.800       8.663       79.80       39.90          UL-RL  9.5413E+04   338.8       0.000
1.000       1.000       8.663       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   3 D   2.512     -4.5937E-07   7.600       12.56       83.60       41.80          UL-RL  9.5413E+04   338.6       0.000
1.000       1.000       12.56       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   4 D   3.148     -4.5590E-07   11.40       15.74       87.40       43.70          UL-RL  9.5413E+04   338.4       0.000
1.000       1.000       15.74       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   5 D   3.715     -4.5230E-07   15.20       18.57       91.20       45.60          UL-RL  9.5413E+04   338.2       0.000
1.000       1.000       18.57       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   6 D   4.240     -4.4846E-07   19.00       21.20       95.00       47.50          UL-RL  9.5413E+04   338.0       0.000
1.000       1.000       21.20       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   7 D   4.738     -4.4425E-07   22.80       23.69       98.80       49.40          UL-RL  9.5413E+04   337.8       0.000
1.000       1.000       23.69       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   8 D   5.216     -4.3949E-07   26.60       26.08       102.6       51.30          UL-RL  9.5413E+04   337.6       0.000
1.000       1.000       26.08       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   9 D   5.754      2.6006E-06   29.70       28.07       105.7       52.95          UL-RL  9.5413E+04   337.4       0.7029
1.000       1.000       28.77       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  10 D   6.371      2.5216E-06   31.49       29.14       107.5       53.84          UL-RL  9.5413E+04   337.2       2.708
1.000       1.000       31.85       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  11 D   6.984      2.4438E-06   33.29       30.21       109.3       54.73          UL-RL  9.5413E+04   337.0       4.714
1.000       1.000       34.92       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  12 D   7.596      2.3672E-06   35.08       31.26       111.1       55.62          UL-RL  9.5413E+04   336.8       6.719
1.000       1.000       37.98       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  13 D   8.206      2.2921E-06   36.88       32.30       112.9       56.52          UL-RL  9.5413E+04   336.6       8.725
1.000       1.000       41.03       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  14 D   8.814      2.2182E-06   38.67       33.34       114.7       57.41          UL-RL  9.5413E+04   336.4       10.73
1.000       1.000       44.07       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  15 D   9.421      2.1458E-06   40.47       34.37       116.4       58.30          UL-RL  9.5413E+04   336.2       12.74
1.000       1.000       47.10       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  16 D   10.03      2.0747E-06   42.26       35.39       118.2       59.19          UL-RL  9.5413E+04   336.0       14.74
1.000       1.000       50.13       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  17 D   10.63      2.0048E-06   44.06       36.40       120.0       60.09          UL-RL  9.5413E+04   335.8       16.75
1.000       1.000       53.15       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  18 D   11.23      1.9359E-06   45.85       37.41       121.8       60.98          UL-RL  9.5413E+04   335.6       18.75
1.000       1.000       56.16       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  19 D   11.83      1.8679E-06   47.65       38.41       123.6       61.87          UL-RL  9.5413E+04   335.4       20.76
1.000       1.000       59.17       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  20 D   12.43      1.8006E-06   49.44       39.41       125.4       62.77          UL-RL  9.5413E+04   335.2       22.76
1.000       1.000       62.17       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  21 D   14.01      6.4195E-08   51.23       45.30       127.2       71.53          UL-RL  4.3908E+05   335.0       24.77
1.000       1.000       70.07       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  22 D   14.66      6.8401E-08   53.23       46.54       129.2       72.65          UL-RL  4.3908E+05   334.8       26.78
```

1.000	1.000	73.31	0.000	0.000	8.000	8.000	Salt_1270_202756_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
23 D	15.31	7.2462E-08	55.22	47.77	131.2	73.76	UL-RL	4.3908E+05	334.6		28.78
1.000	1.000	76.55	0.000	0.000	8.000	8.000	Salt_1270_202756_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
24 D	15.96	7.6173E-08	57.22	49.00	133.2	74.88	UL-RL	4.3908E+05	334.4		30.79
1.000	1.000	79.79	0.000	0.000	8.000	8.000	Salt_1270_202756_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
25 D	16.60	7.9364E-08	59.21	50.23	135.2	76.00	UL-RL	4.3908E+05	334.2		32.79
1.000	1.000	83.02	0.000	0.000	8.000	8.000	Salt_1270_202756_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
26 D	17.25	8.1903E-08	61.21	51.45	137.1	77.11	UL-RL	4.3908E+05	334.0		34.80
1.000	1.000	86.25	0.000	0.000	8.000	8.000	Salt_1270_202756_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
27 D	17.89	8.3687E-08	63.20	52.66	139.1	78.23	UL-RL	4.3908E+05	333.8		36.80
1.000	1.000	89.47	0.000	0.000	8.000	8.000	Salt_1270_202756_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
28 D	18.54	8.4637E-08	65.20	53.88	141.1	79.35	UL-RL	4.3908E+05	333.6		38.81
1.000	1.000	92.68	0.000	0.000	8.000	8.000	Salt_1270_202756_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
29 D	19.18	8.4700E-08	67.19	55.08	143.1	80.46	UL-RL	4.3908E+05	333.4		40.81
1.000	1.000	95.90	0.000	0.000	8.000	8.000	Salt_1270_202756_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
30 D	19.82	8.3841E-08	69.19	56.29	145.1	81.58	UL-RL	4.3908E+05	333.2		42.82
1.000	1.000	99.11	0.000	0.000	8.000	8.000	Salt_1270_202756_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
31 D	20.46	8.2042E-08	71.18	57.49	147.1	82.70	UL-RL	4.3908E+05	333.0		44.83
1.000	1.000	102.3	0.000	0.000	8.000	8.000	Salt_1270_202756_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
32 D	21.10	7.9300E-08	73.18	58.68	149.1	83.81	UL-RL	4.3908E+05	332.8		46.83
1.000	1.000	105.5	0.000	0.000	8.000	8.000	Salt_1270_202756_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
33 D	21.74	7.5621E-08	75.17	59.88	151.1	84.93	UL-RL	4.3908E+05	332.6		48.84
1.000	1.000	108.7	0.000	0.000	8.000	8.000	Salt_1270_202756_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
34 D	22.38	7.1023E-08	77.17	61.07	153.1	86.05	UL-RL	4.3908E+05	332.4		50.84
1.000	1.000	111.9	0.000	0.000	8.000	8.000	Salt_1270_202756_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
35 D	23.02	6.5530E-08	79.16	62.25	155.1	87.17	UL-RL	4.3908E+05	332.2		52.85
1.000	1.000	115.1	0.000	0.000	8.000	8.000	Salt_1270_202756_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
36 D	23.66	5.9174E-08	81.15	63.44	157.1	88.28	UL-RL	4.3908E+05	332.0		54.85
1.000	1.000	118.3	0.000	0.000	8.000	8.000	Salt_1270_202756_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
37 D	24.30	5.1991E-08	83.15	64.62	159.0	89.40	UL-RL	4.3908E+05	331.8		56.86
1.000	1.000	121.5	0.000	0.000	8.000	8.000	Salt_1270_202756_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
38 D	24.93	4.4017E-08	85.14	65.80	161.0	90.52	UL-RL	4.3908E+05	331.6		58.87
1.000	1.000	124.7	0.000	0.000	8.000	8.000	Salt_1270_202756_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
39 D	25.57	3.5308E-08	87.14	66.98	163.0	91.63	UL-RL	4.3908E+05	331.4		60.87
1.000	1.000	127.8	0.000	0.000	8.000	8.000	Salt_1270_202756_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
40 D	26.21	2.5907E-08	89.13	68.15	165.0	92.75	UL-RL	4.3908E+05	331.2		62.88
1.000	1.000	131.0	0.000	0.000	8.000	8.000	Salt_1270_202756_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
41 D	25.31	8.1617E-08	91.13	61.68	167.0	83.51	UL-RL	2.2313E+05	331.0		64.88
1.000	1.000	126.6	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
42 D	25.97	8.2116E-08	93.63	62.99	169.5	84.76	UL-RL	2.2313E+05	330.8		66.88
1.000	1.000	129.9	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
43 D	26.64	8.2090E-08	96.13	64.30	172.0	86.01	UL-RL	2.2313E+05	330.6		68.88
1.000	1.000	133.2	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
44 D	27.30	8.1595E-08	98.63	65.60	174.5	87.26	UL-RL	2.2313E+05	330.4		70.88
1.000	1.000	136.5	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
45 D	27.96	8.0681E-08	101.1	66.90	177.0	88.51	UL-RL	2.2313E+05	330.2		72.88
1.000	1.000	139.8	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
46 D	28.62	7.9397E-08	103.6	68.20	179.5	89.76	UL-RL	2.2313E+05	330.0		74.88
1.000	1.000	143.1	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
47 D	29.28	7.7788E-08	106.1	69.49	182.0	91.01	UL-RL	2.2313E+05	329.8		76.89
1.000	1.000	146.4	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
48 D	29.93	7.5898E-08	108.6	70.79	184.5	92.26	UL-RL	2.2313E+05	329.6		78.89
1.000	1.000	149.7	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
49 D	30.59	7.3767E-08	111.1	72.08	187.0	93.51	UL-RL	2.2313E+05	329.4		80.89
1.000	1.000	153.0	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
50 D	31.25	7.1431E-08	113.6	73.37	189.5	94.76	UL-RL	2.2313E+05	329.2		82.89
1.000	1.000	156.3	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
51 D	31.91	6.8923E-08	116.1	74.66	192.0	96.01	UL-RL	2.2313E+05	329.0		84.89
1.000	1.000	159.6	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
52 D	32.57	6.6272E-08	118.6	75.95	194.5	97.26	UL-RL	2.2313E+05	328.8		86.89
1.000	1.000	162.8	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							

53 D	33.23	6.3506E-08	121.1	77.24	197.0	98.51	UL-RL	2.2313E+05	328.6	88.89
1.000	1.000	166.1	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
54 D	33.88	6.0648E-08	123.6	78.52	199.5	99.75	UL-RL	2.2313E+05	328.4	90.89
1.000	1.000	169.4	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
55 D	34.54	5.7719E-08	126.1	79.81	202.0	101.0	UL-RL	2.2313E+05	328.2	92.89
1.000	1.000	172.7	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
56 D	35.20	5.4738E-08	128.6	81.09	204.5	102.3	UL-RL	2.2313E+05	328.0	94.89
1.000	1.000	176.0	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
57 D	35.85	5.1722E-08	131.1	82.38	207.0	103.5	UL-RL	2.2313E+05	327.8	96.89
1.000	1.000	179.3	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
58 D	36.51	4.8682E-08	133.6	83.66	209.5	104.8	UL-RL	2.2313E+05	327.6	98.89
1.000	1.000	182.6	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
59 D	37.17	4.5630E-08	136.1	84.94	212.0	106.0	UL-RL	2.2313E+05	327.4	100.9
1.000	1.000	185.8	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
60 D	37.82	4.2575E-08	138.6	86.22	214.5	107.3	UL-RL	2.2313E+05	327.2	102.9
1.000	1.000	189.1	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
61 D	38.48	3.9524E-08	141.1	87.50	217.0	108.5	UL-RL	2.2313E+05	327.0	104.9
1.000	1.000	192.4	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
62 D	39.13	3.6483E-08	143.6	88.78	219.5	109.7	UL-RL	2.2313E+05	326.8	106.9
1.000	1.000	195.7	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
63 D	39.79	3.3453E-08	146.1	90.05	222.0	111.0	UL-RL	2.2313E+05	326.6	108.9
1.000	1.000	199.0	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
64 D	40.45	3.0441E-08	148.6	91.33	224.5	112.2	UL-RL	2.2313E+05	326.4	110.9
1.000	1.000	202.2	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
65 D	41.10	2.7447E-08	151.1	92.61	227.0	113.5	UL-RL	2.2313E+05	326.2	112.9
1.000	1.000	205.5	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
66 D	41.76	2.4470E-08	153.6	93.88	229.5	114.7	UL-RL	2.2313E+05	326.0	114.9
1.000	1.000	208.8	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
67 D	42.41	2.1510E-08	156.1	95.16	232.0	116.0	UL-RL	2.2313E+05	325.8	116.9
1.000	1.000	212.1	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
68 D	43.07	1.8566E-08	158.6	96.43	234.5	117.2	UL-RL	2.2313E+05	325.6	118.9
1.000	1.000	215.3	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
69 D	43.72	1.5636E-08	161.1	97.70	237.0	118.5	UL-RL	2.2313E+05	325.4	120.9
1.000	1.000	218.6	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
70 D	44.38	1.2719E-08	163.6	98.97	239.5	119.7	UL-RL	2.2313E+05	325.2	122.9
1.000	1.000	221.9	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
71 D	45.03	9.8099E-09	166.1	100.2	242.0	121.0	UL-RL	2.2313E+05	325.0	124.9
1.000	1.000	225.1	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
72 D	45.68	6.9099E-09	168.6	101.5	244.5	122.2	UL-RL	2.2313E+05	324.8	126.9
1.000	1.000	228.4	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
73 D	46.34	4.0151E-09	171.1	102.8	247.0	123.5	UL-RL	2.2313E+05	324.6	128.9
1.000	1.000	231.7	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
74 D	46.99	1.1236E-09	173.6	104.1	249.5	124.7	UL-RL	2.2313E+05	324.4	130.9
1.000	1.000	235.0	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
75 D	47.65	-1.7664E-09	176.1	105.3	252.0	126.0	UL-RL	2.2313E+05	324.2	132.9
1.000	1.000	238.2	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
76 D	24.15	-4.6427E-09	178.6	106.6	254.5	127.2	UL-RL	2.2313E+05	324.0	134.9
1.000	1.000	241.5	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						

```
+-----------------------------------------------------------------------------------------------------------------------+
|                  PARATIEPLUS(TM)   NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*             |
|                                                                                                                       |
|                                              ParatiePlus                                                              |
|                                  Exe Time :28 January 2022   16:22:52                                                 |
+-----------------------------------------------------------------------------------------------------------------------+
New Project


S T R E S S   R E S U L T S   F O R   G R O U P   N O.   2

0_R                                                    :
ELEMENT TYPE    5 NO.OF ELEMENTS. IN THIS GROUP   76
C U R R E N T   T I M E   I S      2.0000 SUBINCREMENT 00001/00001

 HARDENING 2D SOIL ELEMENT

 ****** TOTAL STRESS FORMULATION *****

  EL *   FORCE      DISPL-Y  VERTICAL-P  HORIZON.-P     MAX-V-P     MAX-H-P          STATE   STIFFNESS Z-LEVEL      PORE       E FAC-
TOR    UFACTOR       Peq          Su_a        Su_p        Cohe_a      Cohe_p     LAYER                              ZFO         QS
QSL          ZD          ZPL          Kz
 ------------------------------------------------------------------------------------------------------------------------------------
------------------------------------------------------------------------------------------------------------------------------------
-----------------------------------------------
   1 D  3.5179E-03  4.6619E-07   0.000      3.5179E-02   76.00       38.00          UL-RL  7.5461E+04   339.0       0.000
1.000       1.000      3.5179E-02   0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000       0.0000      0.0000      0.0000
   2 D   1.748      4.6279E-07   3.800       8.742       79.80       39.90          UL-RL  7.5461E+04   338.8       0.000
1.000       1.000       8.742       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000       0.0000      0.0000      0.0000
   3 D   2.528      4.5937E-07   7.600       12.64       83.60       41.80          UL-RL  7.5461E+04   338.6       0.000
1.000       1.000       12.64       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000       0.0000      0.0000      0.0000
   4 D   3.163      4.5590E-07   11.40       15.82       87.40       43.70          UL-RL  7.5461E+04   338.4       0.000
1.000       1.000       15.82       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000       0.0000      0.0000      0.0000
   5 D   3.730      4.5230E-07   15.20       18.65       91.20       45.60          UL-RL  7.5461E+04   338.2       0.000
1.000       1.000       18.65       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000       0.0000      0.0000      0.0000
   6 D   4.256      4.4846E-07   19.00       21.28       95.00       47.50          UL-RL  7.5461E+04   338.0       0.000
1.000       1.000       21.28       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000       0.0000      0.0000      0.0000
   7 D   4.753      4.4425E-07   22.80       23.77       98.80       49.40          UL-RL  7.5461E+04   337.8       0.000
1.000       1.000       23.77       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000       0.0000      0.0000      0.0000
   8 D   5.231      4.3949E-07   26.60       26.16       102.6       51.30          UL-RL  7.5461E+04   337.6       0.000
1.000       1.000       26.16       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000       0.0000      0.0000      0.0000
   9 D   5.728     -2.6006E-06   29.31       27.55       105.0       52.52          UL-RL  7.5461E+04   337.4       1.091
1.000       1.000       28.64       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000       0.0000      0.0000      0.0000
  10 D   6.345     -2.5216E-06   31.12       28.64       106.9       53.43          UL-RL  7.5461E+04   337.2       3.086
1.000       1.000       31.73       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000       0.0000      0.0000      0.0000
  11 D   6.960     -2.4438E-06   32.92       29.72       108.7       54.33          UL-RL  7.5461E+04   337.0       5.080
1.000       1.000       34.80       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000       0.0000      0.0000      0.0000
  12 D   7.573     -2.3672E-06   34.73       30.79       110.5       55.24          UL-RL  7.5461E+04   336.8       7.075
1.000       1.000       37.87       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000       0.0000      0.0000      0.0000
  13 D   8.184     -2.2921E-06   36.53       31.85       112.3       56.14          UL-RL  7.5461E+04   336.6       9.069
1.000       1.000       40.92       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000       0.0000      0.0000      0.0000
  14 D   8.793     -2.2182E-06   38.34       32.90       114.1       57.05          UL-RL  7.5461E+04   336.4       11.06
1.000       1.000       43.97       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000       0.0000      0.0000      0.0000
  15 D   9.401     -2.1458E-06   40.14       33.94       115.9       57.95          UL-RL  7.5461E+04   336.2       13.06
1.000       1.000       47.00       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000       0.0000      0.0000      0.0000
  16 D   10.01     -2.0747E-06   41.95       34.98       117.7       58.86          UL-RL  7.5461E+04   336.0       15.05
1.000       1.000       50.03       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000       0.0000      0.0000      0.0000
  17 D   10.61     -2.0048E-06   43.76       36.01       119.5       59.76          UL-RL  7.5461E+04   335.8       17.05
1.000       1.000       53.06       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000       0.0000      0.0000      0.0000
  18 D   11.21     -1.9359E-06   45.56       37.03       121.3       60.67          UL-RL  7.5461E+04   335.6       19.04
1.000       1.000       56.07       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000       0.0000      0.0000      0.0000
  19 D   11.82     -1.8679E-06   47.37       38.04       123.1       61.57          UL-RL  7.5461E+04   335.4       21.04
1.000       1.000       59.08       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000       0.0000      0.0000      0.0000
  20 D   12.42     -1.8006E-06   49.17       39.06       124.9       62.47          UL-RL  7.5461E+04   335.2       23.03
1.000       1.000       62.09       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000       0.0000      0.0000      0.0000
  21 D   14.04     -6.4195E-08   50.98       45.15       126.8       71.24          UL-RL  4.0994E+05   335.0       25.03
1.000       1.000       70.18       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000       0.0000      0.0000      0.0000
  22 D   14.68     -6.8401E-08   52.98       46.39       128.8       72.37          UL-RL  4.0994E+05   334.8       27.02
```

1.000	1.000	73.41	0.000	0.000	8.000	8.000	Salt_1270_202756_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
23 D	15.33	-7.2462E-08	54.99	47.63	130.8	73.50	UL-RL	4.0994E+05	334.6		29.02
1.000	1.000	76.65	0.000	0.000	8.000	8.000	Salt_1270_202756_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
24 D	15.97	-7.6173E-08	56.99	48.86	132.8	74.63	UL-RL	4.0994E+05	334.4		31.01
1.000	1.000	79.87	0.000	0.000	8.000	8.000	Salt_1270_202756_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
25 D	16.62	-7.9364E-08	59.00	50.09	134.8	75.76	UL-RL	4.0994E+05	334.2		33.01
1.000	1.000	83.09	0.000	0.000	8.000	8.000	Salt_1270_202756_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
26 D	17.26	-8.1903E-08	61.01	51.31	136.8	76.88	UL-RL	4.0994E+05	334.0		35.00
1.000	1.000	86.31	0.000	0.000	8.000	8.000	Salt_1270_202756_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
27 D	17.90	-8.3687E-08	63.01	52.53	138.8	78.01	UL-RL	4.0994E+05	333.8		36.99
1.000	1.000	89.52	0.000	0.000	8.000	8.000	Salt_1270_202756_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
28 D	18.55	-8.4637E-08	65.02	53.74	140.8	79.14	UL-RL	4.0994E+05	333.6		38.99
1.000	1.000	92.73	0.000	0.000	8.000	8.000	Salt_1270_202756_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
29 D	19.19	-8.4700E-08	67.02	54.95	142.8	80.27	UL-RL	4.0994E+05	333.4		40.98
1.000	1.000	95.94	0.000	0.000	8.000	8.000	Salt_1270_202756_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
30 D	19.83	-8.3841E-08	69.03	56.16	144.8	81.40	UL-RL	4.0994E+05	333.2		42.98
1.000	1.000	99.14	0.000	0.000	8.000	8.000	Salt_1270_202756_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
31 D	20.47	-8.2042E-08	71.03	57.37	146.9	82.53	UL-RL	4.0994E+05	333.0		44.97
1.000	1.000	102.3	0.000	0.000	8.000	8.000	Salt_1270_202756_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
32 D	21.11	-7.9300E-08	73.04	58.57	148.9	83.66	UL-RL	4.0994E+05	332.8		46.97
1.000	1.000	105.5	0.000	0.000	8.000	8.000	Salt_1270_202756_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
33 D	21.75	-7.5621E-08	75.05	59.77	150.9	84.79	UL-RL	4.0994E+05	332.6		48.96
1.000	1.000	108.7	0.000	0.000	8.000	8.000	Salt_1270_202756_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
34 D	22.38	-7.1023E-08	77.05	60.97	152.9	85.92	UL-RL	4.0994E+05	332.4		50.96
1.000	1.000	111.9	0.000	0.000	8.000	8.000	Salt_1270_202756_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
35 D	23.02	-6.5530E-08	79.06	62.16	154.9	87.05	UL-RL	4.0994E+05	332.2		52.95
1.000	1.000	115.1	0.000	0.000	8.000	8.000	Salt_1270_202756_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
36 D	23.66	-5.9174E-08	81.06	63.36	156.9	88.18	UL-RL	4.0994E+05	332.0		54.95
1.000	1.000	118.3	0.000	0.000	8.000	8.000	Salt_1270_202756_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
37 D	24.30	-5.1991E-08	83.07	64.55	158.9	89.31	UL-RL	4.0994E+05	331.8		56.94
1.000	1.000	121.5	0.000	0.000	8.000	8.000	Salt_1270_202756_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
38 D	24.93	-4.4017E-08	85.07	65.74	160.9	90.44	UL-RL	4.0994E+05	331.6		58.94
1.000	1.000	124.7	0.000	0.000	8.000	8.000	Salt_1270_202756_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
39 D	25.57	-3.5308E-08	87.08	66.93	162.9	91.56	UL-RL	4.0994E+05	331.4		60.93
1.000	1.000	127.9	0.000	0.000	8.000	8.000	Salt_1270_202756_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
40 D	26.21	-2.5907E-08	89.08	68.11	164.9	92.69	UL-RL	4.0994E+05	331.2		62.93
1.000	1.000	131.0	0.000	0.000	8.000	8.000	Salt_1270_202756_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
41 D	25.31	-8.1617E-08	91.09	61.64	166.9	83.47	UL-RL	2.0168E+05	331.0		64.92
1.000	1.000	126.6	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
42 D	25.97	-8.2116E-08	93.59	62.95	169.4	84.72	UL-RL	2.0168E+05	330.8		66.92
1.000	1.000	129.9	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
43 D	26.63	-8.2090E-08	96.09	64.25	171.9	85.97	UL-RL	2.0168E+05	330.6		68.92
1.000	1.000	133.2	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
44 D	27.30	-8.1595E-08	98.59	65.56	174.4	87.22	UL-RL	2.0168E+05	330.4		70.92
1.000	1.000	136.5	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
45 D	27.96	-8.0681E-08	101.1	66.86	176.9	88.47	UL-RL	2.0168E+05	330.2		72.92
1.000	1.000	139.8	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
46 D	28.61	-7.9397E-08	103.6	68.16	179.5	89.73	UL-RL	2.0168E+05	330.0		74.92
1.000	1.000	143.1	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
47 D	29.27	-7.7788E-08	106.1	69.45	182.0	90.98	UL-RL	2.0168E+05	329.8		76.92
1.000	1.000	146.4	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
48 D	29.93	-7.5898E-08	108.6	70.75	184.5	92.23	UL-RL	2.0168E+05	329.6		78.92
1.000	1.000	149.7	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
49 D	30.59	-7.3767E-08	111.1	72.04	187.0	93.48	UL-RL	2.0168E+05	329.4		80.92
1.000	1.000	153.0	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
50 D	31.25	-7.1431E-08	113.6	73.34	189.5	94.73	UL-RL	2.0168E+05	329.2		82.92
1.000	1.000	156.3	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
51 D	31.91	-6.8923E-08	116.1	74.63	192.0	95.98	UL-RL	2.0168E+05	329.0		84.92
1.000	1.000	159.5	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
52 D	32.57	-6.6272E-08	118.6	75.92	194.5	97.23	UL-RL	2.0168E+05	328.8		86.92
1.000	1.000	162.8	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							

53 D	33.22	-6.3506E-08	121.1	77.21	197.0	98.48	UL-RL	2.0168E+05	328.6	88.91
1.000	1.000	166.1	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
54 D	33.88	-6.0648E-08	123.6	78.49	199.5	99.73	UL-RL	2.0168E+05	328.4	90.91
1.000	1.000	169.4	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
55 D	34.54	-5.7719E-08	126.1	79.78	202.0	101.0	UL-RL	2.0168E+05	328.2	92.91
1.000	1.000	172.7	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
56 D	35.20	-5.4738E-08	128.6	81.07	204.5	102.2	UL-RL	2.0168E+05	328.0	94.91
1.000	1.000	176.0	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
57 D	35.85	-5.1722E-08	131.1	82.35	207.0	103.5	UL-RL	2.0168E+05	327.8	96.91
1.000	1.000	179.3	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
58 D	36.51	-4.8682E-08	133.6	83.63	209.5	104.7	UL-RL	2.0168E+05	327.6	98.91
1.000	1.000	182.5	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
59 D	37.17	-4.5630E-08	136.1	84.92	212.0	106.0	UL-RL	2.0168E+05	327.4	100.9
1.000	1.000	185.8	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
60 D	37.82	-4.2575E-08	138.6	86.20	214.5	107.2	UL-RL	2.0168E+05	327.2	102.9
1.000	1.000	189.1	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
61 D	38.48	-3.9524E-08	141.1	87.48	217.0	108.5	UL-RL	2.0168E+05	327.0	104.9
1.000	1.000	192.4	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
62 D	39.13	-3.6483E-08	143.6	88.76	219.5	109.7	UL-RL	2.0168E+05	326.8	106.9
1.000	1.000	195.7	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
63 D	39.79	-3.3453E-08	146.1	90.04	222.0	111.0	UL-RL	2.0168E+05	326.6	108.9
1.000	1.000	198.9	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
64 D	40.45	-3.0441E-08	148.6	91.31	224.5	112.2	UL-RL	2.0168E+05	326.4	110.9
1.000	1.000	202.2	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
65 D	41.10	-2.7447E-08	151.1	92.59	227.0	113.5	UL-RL	2.0168E+05	326.2	112.9
1.000	1.000	205.5	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
66 D	41.76	-2.4470E-08	153.6	93.87	229.5	114.7	UL-RL	2.0168E+05	326.0	114.9
1.000	1.000	208.8	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
67 D	42.41	-2.1510E-08	156.1	95.14	232.0	116.0	UL-RL	2.0168E+05	325.8	116.9
1.000	1.000	212.1	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
68 D	43.07	-1.8566E-08	158.6	96.42	234.5	117.2	UL-RL	2.0168E+05	325.6	118.9
1.000	1.000	215.3	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
69 D	43.72	-1.5636E-08	161.1	97.69	237.0	118.5	UL-RL	2.0168E+05	325.4	120.9
1.000	1.000	218.6	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
70 D	44.38	-1.2719E-08	163.6	98.97	239.5	119.7	UL-RL	2.0168E+05	325.2	122.9
1.000	1.000	221.9	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
71 D	45.03	-9.8099E-09	166.1	100.2	242.0	121.0	UL-RL	2.0168E+05	325.0	124.9
1.000	1.000	225.1	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
72 D	45.68	-6.9099E-09	168.6	101.5	244.5	122.2	UL-RL	2.0168E+05	324.8	126.9
1.000	1.000	228.4	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
73 D	46.34	-4.0151E-09	171.1	102.8	247.0	123.5	UL-RL	2.0168E+05	324.6	128.9
1.000	1.000	231.7	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
74 D	46.99	-1.1236E-09	173.6	104.1	249.5	124.7	UL-RL	2.0168E+05	324.4	130.9
1.000	1.000	235.0	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
75 D	47.65	1.7664E-09	176.1	105.3	252.0	126.0	UL-RL	2.0168E+05	324.2	132.9
1.000	1.000	238.2	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
76 D	24.15	4.6427E-09	178.6	106.6	254.5	127.2	UL-RL	2.0168E+05	324.0	134.9
1.000	1.000	241.5	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						

New Project

S T R E S S   R E S U L T S   F O R   G R O U P   N O.   3

Pali1500_253215   :
ELEMENT TYPE   2 NO.OF ELEMENTS. IN THIS GROUP   75
C U R R E N T   T I M E   I S   2.0000 SUBINCREMENT 00001/00001

 WALL2D ELEMENT

EL	TA	TB	MA	MB
1	-3.51795E-03	3.51795E-03	9.54792E-15	-7.03590E-04
2	-1.93337E-02	1.93337E-02	7.03590E-04	-4.57033E-03
3	-3.50326E-02	3.50326E-02	4.57033E-03	-1.15769E-02
4	-5.06130E-02	5.06130E-02	1.15769E-02	-2.16994E-02
5	-6.60703E-02	6.60703E-02	2.16994E-02	-3.49201E-02
6	-8.13965E-02	8.13965E-02	3.49201E-02	-5.11994E-02
7	-9.65787E-02	9.65787E-02	5.11994E-02	-7.05151E-02
8	-0.11160	0.11160	7.05151E-02	-9.28348E-02
9	-8.50781E-02	8.50781E-02	9.28348E-02	-0.10985
10	-5.98894E-02	5.98894E-02	0.10985	-0.12183
11	-3.59227E-02	3.59227E-02	0.12183	-0.12901
12	-1.30757E-02	1.30757E-02	0.12901	-0.13163
13	8.74754E-03	-8.74754E-03	0.13163	-0.12988
14	2.96360E-02	-2.96360E-02	0.12988	-0.12395
15	4.96728E-02	-4.96728E-02	0.12395	-0.11402
16	6.89334E-02	-6.89334E-02	0.11402	-0.10023
17	8.74853E-02	-8.74853E-02	0.10023	-8.27321E-02
18	0.10539	-0.10539	8.27321E-02	-6.16546E-02
19	0.12269	-0.12269	6.16546E-02	-3.71167E-02
20	0.13943	-0.13943	3.71167E-02	-9.23063E-03
21	0.11719	-0.11719	9.23063E-03	1.42192E-02
22	9.69979E-02	-9.69979E-02	-1.42192E-02	3.36188E-02
23	7.88415E-02	-7.88415E-02	-3.36188E-02	4.93871E-02
24	6.26752E-02	-6.26752E-02	-4.93871E-02	6.19222E-02
25	4.84220E-02	-4.84220E-02	-6.19222E-02	7.16066E-02
26	3.59810E-02	-3.59810E-02	-7.16066E-02	7.88028E-02
27	2.52323E-02	-2.52323E-02	-7.88028E-02	8.38492E-02
28	1.60419E-02	-1.60419E-02	-8.38492E-02	8.70576E-02
29	8.26552E-03	-8.26552E-03	-8.70576E-02	8.87115E-02
30	1.75298E-03	-1.75298E-03	-8.87115E-02	8.90621E-02
31	-3.65110E-03	3.65110E-03	-8.90621E-02	8.83319E-02
32	-8.10272E-03	8.10272E-03	-8.83319E-02	8.67113E-02
33	-1.17572E-02	1.17572E-02	-8.67113E-02	8.43599E-02
34	-1.47674E-02	1.47674E-02	-8.43599E-02	8.14064E-02
35	-1.72826E-02	1.72826E-02	-8.14064E-02	7.79499E-02
36	-1.94469E-02	1.94469E-02	-7.79499E-02	7.40605E-02
37	-2.13987E-02	2.13987E-02	-7.40605E-02	6.97786E-02
38	-2.32696E-02	2.32696E-02	-6.97786E-02	6.51247E-02
39	-2.51839E-02	2.51839E-02	-6.51247E-02	6.00879E-02
40	-2.72577E-02	2.72577E-02	-6.00879E-02	5.46364E-02
41	-2.64770E-02	2.64770E-02	-5.46364E-02	4.93410E-02
42	-2.54793E-02	2.54793E-02	-4.93410E-02	4.42452E-02
43	-2.43089E-02	2.43089E-02	-4.42452E-02	3.93834E-02
44	-2.30054E-02	2.30054E-02	-3.93834E-02	3.47823E-02
45	-2.16043E-02	2.16043E-02	-3.47823E-02	3.04614E-02
46	-2.01368E-02	2.01368E-02	-3.04614E-02	2.64321E-02
47	-1.86302E-02	1.86302E-02	-2.64321E-02	2.27060E-02
48	-1.71083E-02	1.71083E-02	-2.27060E-02	1.92844E-02
49	-1.55916E-02	1.55916E-02	-1.92844E-02	1.61660E-02
50	-1.40974E-02	1.40974E-02	-1.61660E-02	1.33466E-02
51	-1.26403E-02	1.26403E-02	-1.33466E-02	1.08185E-02
52	-1.12323E-02	1.12323E-02	-1.08185E-02	8.57204E-03
53	-9.88317E-03	9.88317E-03	-8.57204E-03	6.59541E-03
54	-8.60067E-03	8.60067E-03	-6.59541E-03	4.87442E-03
55	-7.39079E-03	7.39079E-03	-4.87442E-03	3.39626E-03
56	-6.25794E-03	6.25794E-03	-3.39626E-03	2.14467E-03
57	-5.20520E-03	5.20520E-03	-2.14467E-03	1.10363E-03
58	-4.23455E-03	4.23455E-03	-1.10363E-03	2.56719E-04
59	-3.34702E-03	3.34702E-03	-2.56719E-04	-4.12685E-04
60	-2.54290E-03	2.54290E-03	-4.12685E-04	-9.21265E-04
61	-1.82185E-03	1.82185E-03	-9.21265E-04	-1.28563E-03
62	-1.18308E-03	1.18308E-03	-1.28563E-03	-1.52237E-03
63	-6.25536E-04	6.25536E-04	-1.52237E-03	-1.64748E-03
64	-1.47845E-04	1.47845E-04	-1.64748E-03	-1.67705E-03
65	2.51430E-04	-2.51430E-04	-1.67705E-03	-1.62676E-03
66	5.73751E-04	-5.73751E-04	-1.62676E-03	-1.51201E-03
67	8.20537E-04	-8.20537E-04	-1.51201E-03	-1.34790E-03
68	9.93102E-04	-9.93102E-04	-1.34790E-03	-1.14928E-03
69	1.09262E-03	-1.09262E-03	-1.14928E-03	-9.30758E-04
70	1.12007E-03	-1.12007E-03	-9.30758E-04	-7.06632E-04

```
   71 1.07622E-03-1.07622E-03 7.06632E-04-4.91389E-04
   72 9.61688E-04-9.61688E-04 4.91389E-04-2.99052E-04
   73 7.76885E-04-7.76885E-04 2.99052E-04-1.43675E-04
   74 5.22034E-04-5.22034E-04 1.43675E-04-3.92678E-05
   75 1.97227E-04-1.97227E-04 3.92678E-05 8.32667E-17

ITER     0 RNORM = 0.000     RMNORM= 0.000
           RINORM=0.6389E+05 RIMNOR=0.5248
           RENORM= 7856.     REMNOR=0.3750E-24 RATIO =0.3507     TOLER =0.1000E-03  NOT CONVERGED
           RFMAX = 42.19     RMMAX =0.1316
           RTSMAL=0.1000E-03 RMSMAL=0.1000E-05
           RDT   =0.6389E+05 RDR   =0.5248
           RATIOT=0.3507     RATIOR= 0.000
           MAX UN= 17.37     IEQ=    61 NODE     31 DOF   1  Y-DISPL.F
           MIN UN=-.2269E-12 IEQ=    28 NODE     14 DOF   2   X-ROT. F
           NO. OF CONTACT CONSTRAINT VIOLATIONS     0


ITER     2 RNORM = 0.000     RMNORM= 0.000
           RINORM=0.6389E+05 RIMNOR=0.5248
           RENORM= 2243.     REMNOR=0.3844E-18 RATIO =0.1874     TOLER =0.1000E-03  NOT CONVERGED
           RFMAX = 42.19     RMMAX =0.1316
           RTSMAL=0.1000E-03 RMSMAL=0.1000E-05
           RDT   =0.6389E+05 RDR   =0.5248
           RATIOT=0.1874     RATIOR= 0.000
           MAX UN= 14.45     IEQ=    61 NODE     31 DOF   1  Y-DISPL.F
           MIN UN=-.3556E-08 IEQ=    27 NODE     14 DOF   1  Y-DISPL.F
           NO. OF CONTACT CONSTRAINT VIOLATIONS     0


ITER     3 RNORM = 0.000     RMNORM= 0.000
           RINORM=0.6389E+05 RIMNOR=0.5248
           RENORM= 490.6     REMNOR=0.1412E-17 RATIO =0.8763E-01 TOLER =0.1000E-03  NOT CONVERGED
           RFMAX = 42.19     RMMAX =0.1316
           RTSMAL=0.1000E-03 RMSMAL=0.1000E-05
           RDT   =0.6389E+05 RDR   =0.5248
           RATIOT=0.8763E-01 RATIOR= 0.000
           MAX UN= 7.590     IEQ=    15 NODE      8 DOF   1  Y-DISPL.F
           MIN UN=-.3872E-08 IEQ=    69 NODE     35 DOF   1  Y-DISPL.F
           NO. OF CONTACT CONSTRAINT VIOLATIONS     0


ITER     4 RNORM = 0.000     RMNORM= 0.000
           RINORM=0.6389E+05 RIMNOR=0.5248
           RENORM= 1501.     REMNOR=0.2065E-16 RATIO =0.1533     TOLER =0.1000E-03  NOT CONVERGED
           RFMAX = 42.19     RMMAX =0.1316
           RTSMAL=0.1000E-03 RMSMAL=0.1000E-05
           RDT   =0.6389E+05 RDR   =0.5248
           RATIOT=0.1533     RATIOR= 0.000
           MAX UN= 20.86     IEQ=    87 NODE     44 DOF   1  Y-DISPL.F
           MIN UN=-2.266     IEQ=   149 NODE     75 DOF   1  Y-DISPL.F
           NO. OF CONTACT CONSTRAINT VIOLATIONS     0


ITER     5 RNORM = 0.000     RMNORM= 0.000
           RINORM=0.6389E+05 RIMNOR=0.5248
           RENORM= 264.9     REMNOR=0.9729E-17 RATIO =0.6439E-01 TOLER =0.1000E-03  NOT CONVERGED
           RFMAX = 42.19     RMMAX =0.1316
           RTSMAL=0.1000E-03 RMSMAL=0.1000E-05
           RDT   =0.6389E+05 RDR   =0.5248
           RATIOT=0.6439E-01 RATIOR= 0.000
           MAX UN= 11.21     IEQ=   107 NODE     54 DOF   1  Y-DISPL.F
           MIN UN=-1.497     IEQ=   137 NODE     69 DOF   1  Y-DISPL.F
           NO. OF CONTACT CONSTRAINT VIOLATIONS     0


ITER     6 RNORM = 0.000     RMNORM= 0.000
           RINORM=0.6389E+05 RIMNOR=0.5248
           RENORM= 1.400     REMNOR=0.8992E-17 RATIO =0.4680E-02 TOLER =0.1000E-03  NOT CONVERGED
           RFMAX = 42.19     RMMAX =0.1316
           RTSMAL=0.1000E-03 RMSMAL=0.1000E-05
           RDT   =0.6389E+05 RDR   =0.5248
           RATIOT=0.4680E-02 RATIOR= 0.000
           MAX UN= 1.053     IEQ=   115 NODE     58 DOF   1  Y-DISPL.F
           MIN UN=-.1848     IEQ=   135 NODE     68 DOF   1  Y-DISPL.F
           NO. OF CONTACT CONSTRAINT VIOLATIONS     0


ITER     7 RNORM = 0.000     RMNORM= 0.000
           RINORM=0.6389E+05 RIMNOR=0.5248
           RENORM=0.4825E-04 REMNOR=0.8424E-17 RATIO =0.2748E-04 TOLER =0.1000E-03      CONVERGED !
           RFMAX = 42.19     RMMAX =0.1316
           RTSMAL=0.1000E-03 RMSMAL=0.1000E-05
           RDT   =0.6389E+05 RDR   =0.5248
           RATIOT=0.2748E-04 RATIOR= 0.000
           MAX UN=0.2006E-07 IEQ=     5 NODE      3 DOF   1  Y-DISPL.F
           MIN UN=-.6327E-02 IEQ=   139 NODE     70 DOF   1  Y-DISPL.F
           NO. OF CONTACT CONSTRAINT VIOLATIONS     0
```

```
+-----------------------------------------------------------------------------------------------------------------------+
|                  PARATIEPLUS(TM)   NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*             |
|                                                                                                                       |
|                                                ParatiePlus                                                            |
|                                  Exe Time :28 January 2022   16:22:52                                                 |
+-----------------------------------------------------------------------------------------------------------------------+
New Project
SOLUTION REACHED USING     7 ITERATIONS ON   80

P R I N T   O U T   F O R   T I M E   S T E P    3     ( AT TIME   3.000     ) SUBINCREMENT 00001/00001

PRINT OUT OF ACTIVE COMPONENTS (FIXED NODES ARE NOT PRINTED OUT)

          Y-DISPL.F        X-ROT. F
            02               04
    1   1.7003559E-02  -1.5734209E-03
    2   1.6688875E-02  -1.5734209E-03
    3   1.6374191E-02  -1.5734209E-03
    4   1.6059507E-02  -1.5734209E-03
    5   1.5744823E-02  -1.5734209E-03
    6   1.5429981E-02  -1.5734209E-03
    7   1.5115297E-02  -1.5734209E-03
    8   1.4800613E-02  -1.5734209E-03
    9   1.4482894E-02  -1.5734204E-03
   10   1.4168296E-02  -1.5734164E-03
   11   1.3853699E-02  -1.5734021E-03
   12   1.3539107E-02  -1.5733660E-03
   13   1.3224526E-02  -1.5732925E-03
   14   1.2909808E-02  -1.5731613E-03
   15   1.2595281E-02  -1.5729479E-03
   16   1.2280807E-02  -1.5726232E-03
   17   1.1966412E-02  -1.5721538E-03
   18   1.1652129E-02  -1.5715019E-03
   19   1.1337997E-02  -1.5706252E-03
   20   1.1024068E-02  -1.5694770E-03
   21   1.0712069E-02  -1.5680062E-03
   22   1.0398504E-02  -1.5661442E-03
   23   1.0085515E-02  -1.5638081E-03
   24   9.7730474E-03  -1.5609060E-03
   25   9.4612252E-03  -1.5573413E-03
   26   9.1501908E-03  -1.5530112E-03
   27   8.8401079E-03  -1.5478068E-03
   28   8.5311629E-03  -1.5416134E-03
   29   8.2235654E-03  -1.5343104E-03
   30   7.9173975E-03  -1.5257664E-03
   31   7.6132256E-03  -1.5158572E-03
   32   7.3111821E-03  -1.5044680E-03
   33   7.0115711E-03  -1.4915207E-03
   34   6.7147107E-03  -1.4769538E-03
   35   6.4209297E-03  -1.4607197E-03
   36   6.1305655E-03  -1.4427793E-03
   37   5.8439628E-03  -1.4230994E-03
   38   5.5613322E-03  -1.4016414E-03
   39   5.2833120E-03  -1.3784052E-03
   40   5.0101193E-03  -1.3533645E-03
   41   4.7420503E-03  -1.3265094E-03
   42   4.4795801E-03  -1.2979665E-03
   43   4.2229658E-03  -1.2679915E-03
   44   3.9724692E-03  -1.2368311E-03
   45   3.7283032E-03  -1.2047232E-03
   46   3.4906344E-03  -1.1718970E-03
   47   3.2594704E-03  -1.1385564E-03
   48   3.0351203E-03  -1.1049470E-03
   49   2.8175036E-03  -1.0712567E-03
   50   2.6066166E-03  -1.0376818E-03
   51   2.4024173E-03  -1.0044111E-03
   52   2.2048264E-03  -9.7162603E-04
   53   2.0137295E-03  -9.3950067E-04
   54   1.8289777E-03  -9.0820218E-04
   55   1.6503017E-03  -8.7787606E-04
   56   1.4776670E-03  -8.4870641E-04
   57   1.3107399E-03  -8.2082528E-04
   58   1.1492482E-03  -7.9437393E-04
   59   9.9289258E-04  -7.6948769E-04
   60   8.4134683E-04  -7.4629608E-04
   61   6.9426027E-04  -7.2491228E-04
   62   5.5126247E-04  -7.0541981E-04
   63   4.1190068E-04  -6.8786195E-04
   64   2.7592290E-04  -6.7227674E-04
   65   1.4286640E-04  -6.5864508E-04
   66   1.2343909E-05  -6.4692752E-04
   67  -1.1602101E-04  -6.3705559E-04
   68  -2.4258826E-04  -6.2893232E-04
   69  -3.6769577E-04  -6.2243617E-04
   70  -4.9165514E-04  -6.1742584E-04
   71  -6.1480923E-04  -6.1373989E-04
   72  -7.3728274E-04  -6.1120416E-04
   73  -8.5934778E-04  -6.0962133E-04
   74  -9.8117399E-04  -6.0877897E-04
```

```
75  -1.1028868E-03  -6.0844745E-04
76  -1.2240164E-03  -6.0837992E-04
```

```
+-----------------------------------------------------------------------------------------------------------------------+
|                  PARATIEPLUS(TM)   NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*             |
|                                                                                                                       |
|                                              ParatiePlus                                                              |
|                                  Exe Time :28 January 2022   16:22:52                                                 |
+-----------------------------------------------------------------------------------------------------------------------+
New Project


S T R E S S   R E S U L T S   F O R   G R O U P   N O.   1

0_L                                                    :
ELEMENT TYPE    5 NO.OF ELEMENTS. IN THIS GROUP   76
C U R R E N T   T I M E   I S      3.0000 SUBINCREMENT 00001/00001

 HARDENING 2D SOIL ELEMENT

 ****** TOTAL STRESS FORMULATION *****

  EL *   FORCE     DISPL-Y  VERTICAL-P  HORIZON.-P     MAX-V-P     MAX-H-P          STATE   STIFFNESS Z-LEVEL      PORE       E FAC-
TOR    UFACTOR       Peq          Su_a        Su_p        Cohe_a      Cohe_p     LAYER                                ZFO         QS
QSL          ZD          ZPL          Kz
 ------------------------------------------------------------------------------------------------------------------------------------
------------------------------------------------------------------------------------------------------------------------------------
-----------------------------------------------
   1 D   0.000     -1.7004E-02   0.000       0.000       76.00       38.00          ACTIVE   0.000       339.0       0.000
1.000       1.000       0.000       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   2 D   0.000     -1.6689E-02   3.800       0.000       79.80       39.90          ACTIVE   0.000       338.8       0.000
1.000       1.000       0.000       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   3 D   0.000     -1.6374E-02   7.600       0.000       83.60       41.80          ACTIVE   0.000       338.6       0.000
1.000       1.000       0.000       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   4 D   0.000     -1.6060E-02   11.40       0.000       87.40       43.70          ACTIVE   0.000       338.4       0.000
1.000       1.000       0.000       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   5 D   0.000     -1.5745E-02   15.20       0.000       91.20       45.60          ACTIVE   0.000       338.2       0.000
1.000       1.000       0.000       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   6 D   0.000     -1.5430E-02   19.00       0.000       95.00       47.50          ACTIVE   0.000       338.0       0.000
1.000       1.000       0.000       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   7 D   0.000     -1.5115E-02   22.80       0.000       98.80       49.40          ACTIVE   0.000       337.8       0.000
1.000       1.000       0.000       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   8 D  0.1015     -1.4801E-02   26.60      0.5075       102.6       51.30          ACTIVE   0.000       337.6       0.000
1.000       1.000      0.5075       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   9 D  0.4443     -1.4483E-02   30.07       1.893       105.7       52.95          ACTIVE   0.000       337.4       0.3288
1.000       1.000       2.221       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  10 D  0.8603     -1.4168E-02   32.93       3.034       107.5       53.84          ACTIVE   0.000       337.2       1.267
1.000       1.000       4.301       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  11 D   1.276     -1.3854E-02   35.80       4.176       109.3       54.73          ACTIVE   0.000       337.0       2.205
1.000       1.000       6.381       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  12 D   1.692     -1.3539E-02   38.66       5.318       111.1       55.62          ACTIVE   0.000       336.8       3.143
1.000       1.000       8.461       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  13 D   2.108     -1.3225E-02   41.52       6.460       112.9       56.52          ACTIVE   0.000       336.6       4.081
1.000       1.000       10.54       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  14 D   2.524     -1.2910E-02   44.38       7.603       114.7       57.41          ACTIVE   0.000       336.4       5.020
1.000       1.000       12.62       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  15 D   2.940     -1.2595E-02   47.25       8.744       116.4       58.30          ACTIVE   0.000       336.2       5.958
1.000       1.000       14.70       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  16 D   3.356     -1.2281E-02   50.11       9.886       118.2       59.19          ACTIVE   0.000       336.0       6.896
1.000       1.000       16.78       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  17 D   3.772     -1.1966E-02   52.97       11.03       120.0       60.09          ACTIVE   0.000       335.8       7.834
1.000       1.000       18.86       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  18 D   4.188     -1.1652E-02   55.83       12.17       121.8       60.98          ACTIVE   0.000       335.6       8.772
1.000       1.000       20.94       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  19 D   4.604     -1.1338E-02   58.69       13.31       123.6       61.87          ACTIVE   0.000       335.4       9.710
1.000       1.000       23.02       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  20 D   5.021     -1.1024E-02   61.56       14.45       125.4       62.77          ACTIVE   0.000       335.2       10.65
1.000       1.000       25.10       0.000       0.000       8.000       8.000     Aate_364268_2050_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  21 D   7.709     -1.0712E-02   64.42       26.96       127.2       71.53          ACTIVE   0.000       335.0       11.59
1.000       1.000       38.55       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  22 D   8.273     -1.0399E-02   67.48       28.84       129.2       72.65          ACTIVE   0.000       334.8       12.53
```

1.000	1.000	41.36	0.000	0.000	8.000	8.000	Salt_1270_202756_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
23 D	8.836	-1.0086E-02	70.54	30.72	131.2	73.76	ACTIVE	0.000	334.6	13.46	
1.000	1.000	44.18	0.000	0.000	8.000	8.000	Salt_1270_202756_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
24 D	9.399	-9.7730E-03	73.60	32.59	133.2	74.88	ACTIVE	0.000	334.4	14.40	
1.000	1.000	46.99	0.000	0.000	8.000	8.000	Salt_1270_202756_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
25 D	9.962	-9.4612E-03	76.67	34.47	135.2	76.00	ACTIVE	0.000	334.2	15.34	
1.000	1.000	49.81	0.000	0.000	8.000	8.000	Salt_1270_202756_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
26 D	10.52	-9.1502E-03	79.73	36.35	137.1	77.11	ACTIVE	0.000	334.0	16.28	
1.000	1.000	52.62	0.000	0.000	8.000	8.000	Salt_1270_202756_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
27 D	11.09	-8.8401E-03	82.79	38.22	139.1	78.23	ACTIVE	0.000	333.8	17.22	
1.000	1.000	55.44	0.000	0.000	8.000	8.000	Salt_1270_202756_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
28 D	11.65	-8.5312E-03	85.85	40.10	141.1	79.35	ACTIVE	0.000	333.6	18.15	
1.000	1.000	58.25	0.000	0.000	8.000	8.000	Salt_1270_202756_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
29 D	12.21	-8.2236E-03	88.91	41.98	143.1	80.46	ACTIVE	0.000	333.4	19.09	
1.000	1.000	61.07	0.000	0.000	8.000	8.000	Salt_1270_202756_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
30 D	12.78	-7.9174E-03	91.98	43.85	145.1	81.58	ACTIVE	0.000	333.2	20.03	
1.000	1.000	63.89	0.000	0.000	8.000	8.000	Salt_1270_202756_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
31 D	13.34	-7.6132E-03	95.04	45.73	147.1	82.70	ACTIVE	0.000	333.0	20.97	
1.000	1.000	66.70	0.000	0.000	8.000	8.000	Salt_1270_202756_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
32 D	13.90	-7.3112E-03	98.10	47.61	149.1	83.81	ACTIVE	0.000	332.8	21.91	
1.000	1.000	69.52	0.000	0.000	8.000	8.000	Salt_1270_202756_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
33 D	14.47	-7.0116E-03	101.2	49.49	151.1	84.93	ACTIVE	0.000	332.6	22.85	
1.000	1.000	72.33	0.000	0.000	8.000	8.000	Salt_1270_202756_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
34 D	15.03	-6.7147E-03	104.2	51.36	153.1	86.05	ACTIVE	0.000	332.4	23.78	
1.000	1.000	75.15	0.000	0.000	8.000	8.000	Salt_1270_202756_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
35 D	15.59	-6.4209E-03	107.3	53.24	155.1	87.17	ACTIVE	0.000	332.2	24.72	
1.000	1.000	77.96	0.000	0.000	8.000	8.000	Salt_1270_202756_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
36 D	16.16	-6.1306E-03	110.3	55.12	157.1	88.28	ACTIVE	0.000	332.0	25.66	
1.000	1.000	80.78	0.000	0.000	8.000	8.000	Salt_1270_202756_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
37 D	16.72	-5.8440E-03	113.4	56.99	159.0	89.40	ACTIVE	0.000	331.8	26.60	
1.000	1.000	83.59	0.000	0.000	8.000	8.000	Salt_1270_202756_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
38 D	17.28	-5.5613E-03	116.5	58.87	161.0	90.52	ACTIVE	0.000	331.6	27.54	
1.000	1.000	86.41	0.000	0.000	8.000	8.000	Salt_1270_202756_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
39 D	17.84	-5.2833E-03	119.5	60.75	163.0	91.63	ACTIVE	0.000	331.4	28.47	
1.000	1.000	89.22	0.000	0.000	8.000	8.000	Salt_1270_202756_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
40 D	18.41	-5.0101E-03	122.6	62.63	165.0	92.75	ACTIVE	0.000	331.2	29.41	
1.000	1.000	92.04	0.000	0.000	8.000	8.000	Salt_1270_202756_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
41 D	8.919	-4.7421E-03	125.7	14.24	167.0	83.51	ACTIVE	0.000	331.0	30.35	
1.000	1.000	44.60	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
42 D	9.617	-4.4796E-03	128.3	15.84	169.5	84.76	ACTIVE	0.000	330.8	32.25	
1.000	1.000	48.08	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
43 D	10.31	-4.2230E-03	130.9	17.43	172.0	86.01	ACTIVE	0.000	330.6	34.14	
1.000	1.000	51.57	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
44 D	11.01	-3.9725E-03	133.5	19.02	174.5	87.26	ACTIVE	0.000	330.4	36.03	
1.000	1.000	55.06	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
45 D	11.71	-3.7283E-03	136.1	20.61	177.0	88.51	ACTIVE	0.000	330.2	37.93	
1.000	1.000	58.54	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
46 D	12.41	-3.4906E-03	138.7	22.21	179.5	89.76	ACTIVE	0.000	330.0	39.82	
1.000	1.000	62.03	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
47 D	13.10	-3.2595E-03	141.3	23.80	182.0	91.01	ACTIVE	0.000	329.8	41.72	
1.000	1.000	65.52	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
48 D	13.80	-3.0351E-03	143.9	25.39	184.5	92.26	ACTIVE	0.000	329.6	43.61	
1.000	1.000	69.00	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
49 D	14.50	-2.8175E-03	146.5	26.98	187.0	93.51	ACTIVE	0.000	329.4	45.50	
1.000	1.000	72.49	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
50 D	15.19	-2.6066E-03	149.1	28.58	189.5	94.76	ACTIVE	0.000	329.2	47.40	
1.000	1.000	75.97	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
51 D	15.89	-2.4024E-03	151.7	30.17	192.0	96.01	ACTIVE	0.000	329.0	49.29	
1.000	1.000	79.46	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
52 D	16.59	-2.2048E-03	154.3	31.76	194.5	97.26	ACTIVE	0.000	328.8	51.19	
1.000	1.000	82.95	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							

53 D	17.29	-2.0137E-03	156.9	33.35	197.0	98.51	ACTIVE	0.000	328.6	53.08
1.000	1.000	86.43	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
54 D	17.98	-1.8290E-03	159.5	34.95	199.5	99.75	ACTIVE	0.000	328.4	54.97
1.000	1.000	89.92	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
55 D	18.68	-1.6503E-03	162.1	36.54	202.0	101.0	ACTIVE	0.000	328.2	56.87
1.000	1.000	93.41	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
56 D	19.38	-1.4777E-03	164.8	38.13	204.5	102.3	ACTIVE	0.000	328.0	58.76
1.000	1.000	96.89	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
57 D	20.08	-1.3107E-03	167.4	39.72	207.0	103.5	ACTIVE	0.000	327.8	60.66
1.000	1.000	100.4	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
58 D	20.77	-1.1492E-03	170.0	41.32	209.5	104.8	ACTIVE	0.000	327.6	62.55
1.000	1.000	103.9	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
59 D	21.47	-9.9289E-04	172.6	42.91	212.0	106.0	ACTIVE	0.000	327.4	64.44
1.000	1.000	107.4	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
60 D	23.27	-8.4135E-04	175.2	49.99	214.5	107.3	UL-RL	5.5782E+04	327.2	66.34
1.000	1.000	116.3	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
61 D	25.54	-6.9426E-04	177.8	59.48	217.0	108.5	UL-RL	5.5782E+04	327.0	68.23
1.000	1.000	127.7	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
62 D	27.77	-5.5126E-04	180.4	68.74	219.5	109.7	UL-RL	5.5782E+04	326.8	70.12
1.000	1.000	138.9	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
63 D	29.96	-4.1190E-04	183.0	77.80	222.0	111.0	UL-RL	5.5782E+04	326.6	72.02
1.000	1.000	149.8	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
64 D	32.12	-2.7592E-04	185.6	86.67	224.5	112.2	UL-RL	5.5782E+04	326.4	73.91
1.000	1.000	160.6	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
65 D	34.24	-1.4287E-04	188.2	95.38	227.0	113.5	UL-RL	5.5782E+04	326.2	75.81
1.000	1.000	171.2	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
66 D	36.33	-1.2344E-05	190.8	103.9	229.5	114.7	UL-RL	5.5782E+04	326.0	77.70
1.000	1.000	181.6	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
67 D	38.40	1.1602E-04	193.4	112.4	232.0	116.0	UL-RL	5.5782E+04	325.8	79.59
1.000	1.000	192.0	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
68 D	39.78	2.4259E-04	196.0	117.4	234.5	118.9	UL-RL	5.5782E+04	325.6	81.49
1.000	1.000	198.9	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
69 D	40.98	3.6770E-04	198.6	121.5	237.0	122.2	UL-RL	5.5782E+04	325.4	83.38
1.000	1.000	204.9	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
70 D	42.16	4.9166E-04	201.2	125.5	239.5	125.6	UL-RL	5.5782E+04	325.2	85.28
1.000	1.000	210.8	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
71 D	43.25	6.1481E-04	203.8	129.1	242.0	129.1	UL-RL	5.5782E+04	325.0	87.17
1.000	1.000	216.3	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
72 D	44.34	7.3728E-04	206.5	132.6	244.5	132.6	V-C	1.8594E+04	324.8	89.06
1.000	1.000	221.7	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
73 D	45.43	8.5935E-04	209.1	136.2	247.0	136.2	V-C	1.8594E+04	324.6	90.96
1.000	1.000	227.1	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
74 D	46.51	9.8117E-04	211.7	139.7	249.5	139.7	V-C	1.8594E+04	324.4	92.85
1.000	1.000	232.6	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
75 D	47.60	1.1029E-03	214.3	143.2	252.0	143.2	V-C	1.8594E+04	324.2	94.75
1.000	1.000	238.0	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
76 D	24.34	1.2240E-03	216.9	146.7	254.5	146.7	V-C	1.8594E+04	324.0	96.63
1.000	1.000	243.4	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						

New Project

S T R E S S R E S U L T S F O R G R O U P N O. 2

0_R :

ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 76

C U R R E N T T I M E I S 3.0000 SUBINCREMENT 00001/00001

HARDENING 2D SOIL ELEMENT

****** TOTAL STRESS FORMULATION *****

EL * TOR	FORCE UFACTOR	DISPL-Y Peq	VERTICAL-P Su_a	HORIZON.-P Su_p	MAX-V-P Cohe_a	MAX-H-P Cohe_p	STATE LAYER	STIFFNESS	Z-LEVEL ZFO	PORE	E FAC-QS
QSL	ZD	ZPL	Kz								
1	0.000	--	--	--	--	--	REMOVED	--	339.0	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
2	0.000	--	--	--	--	--	REMOVED	--	338.8	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
3	0.000	--	--	--	--	--	REMOVED	--	338.6	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
4	0.000	--	--	--	--	--	REMOVED	--	338.4	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
5	0.000	--	--	--	--	--	REMOVED	--	338.2	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
6	0.000	--	--	--	--	--	REMOVED	--	338.0	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
7	0.000	--	--	--	--	--	REMOVED	--	337.8	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
8	0.000	--	--	--	--	--	REMOVED	--	337.6	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
9	0.000	--	--	--	--	--	REMOVED	--	337.4	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
10	0.000	--	--	--	--	--	REMOVED	--	337.2	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
11	0.000	--	--	--	--	--	REMOVED	--	337.0	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
12	0.000	--	--	--	--	--	REMOVED	--	336.8	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
13	0.000	--	--	--	--	--	REMOVED	--	336.6	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
14	0.000	--	--	--	--	--	REMOVED	--	336.4	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
15	0.000	--	--	--	--	--	REMOVED	--	336.2	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
16	0.000	--	--	--	--	--	REMOVED	--	336.0	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
17	0.000	--	--	--	--	--	REMOVED	--	335.8	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
18	0.000	--	--	--	--	--	REMOVED	--	335.6	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
19	0.000	--	--	--	--	--	REMOVED	--	335.4	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
20	0.000	--	--	--	--	--	REMOVED	--	335.2	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
21	0.000	--	--	--	--	--	REMOVED	--	335.0	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
22	0.000	--	--	--	--	--	REMOVED	--	334.8	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
23	0.000	--	--	--	--	--	REMOVED	--	334.6	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
24	0.000	--	--	--	--	--	REMOVED	--	334.4	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
25	0.000	--	--	--	--	--	REMOVED	--	334.2	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
26	0.000	--	--	--	--	--	REMOVED	--	334.0	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
27	0.000	--	--	--	--	--	REMOVED	--	333.8	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
28	0.000	--	--	--	--	--	REMOVED	--	333.6	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
29	0.000	--	--	--	--	--	REMOVED	--	333.4	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
30	0.000	--	--	--	--	--	REMOVED	--	333.2	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
31 D	5.212	7.6132E-03	8.0000E-03	26.06	146.9	82.53	PASSIVE	0.000	333.0	0.000	
1.000	1.000	26.06	0.000	0.000	8.000	8.000	Salt_1270_202756_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
32 D	7.332	7.3112E-03	4.008	36.66	148.9	83.66	PASSIVE	0.000	332.8	0.000	

```
1.000       1.000       36.66       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  33 D   9.451      7.0116E-03   8.008       47.25       150.9       84.79         PASSIVE   0.000       332.6       0.000
1.000       1.000       47.25       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  34 D   11.08      6.7147E-03   10.52       53.91       152.9       85.92         PASSIVE   0.000       332.4       1.488
1.000       1.000       55.40       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  35 D   12.19      6.4209E-03   11.46       56.39       154.9       87.05         PASSIVE   0.000       332.2       4.550
1.000       1.000       60.94       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  36 D   13.30      6.1306E-03   12.40       58.88       156.9       88.18         PASSIVE   0.000       332.0       7.612
1.000       1.000       66.49       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  37 D   14.41      5.8440E-03   13.33       61.36       158.9       89.31         PASSIVE   0.000       331.8       10.67
1.000       1.000       72.04       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  38 D   15.52      5.5613E-03   14.27       63.85       160.9       90.44         PASSIVE   0.000       331.6       13.74
1.000       1.000       77.59       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  39 D   16.63      5.2833E-03   15.21       66.34       162.9       91.56         PASSIVE   0.000       331.4       16.80
1.000       1.000       83.13       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  40 D   17.74      5.0101E-03   16.15       68.82       164.9       92.69         PASSIVE   0.000       331.2       19.86
1.000       1.000       88.68       0.000       0.000       8.000       8.000     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  41 D   33.43      4.7421E-03   17.09       144.2       166.9       144.2              V-C  1.6807E+04   331.0       22.92
1.000       1.000       167.2       0.000       0.000       40.00       40.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  42 D   33.27      4.4796E-03   19.48       141.3       169.4       141.3              V-C  1.6807E+04   330.8       25.03
1.000       1.000       166.4       0.000       0.000       40.00       40.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  43 D   33.13      4.2230E-03   21.88       138.5       171.9       138.5              V-C  1.6807E+04   330.6       27.13
1.000       1.000       165.6       0.000       0.000       40.00       40.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  44 D   33.00      3.9725E-03   24.27       135.8       174.4       135.8              V-C  1.6807E+04   330.4       29.24
1.000       1.000       165.0       0.000       0.000       40.00       40.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  45 D   32.89      3.7283E-03   26.67       133.1       176.9       133.1              V-C  1.6807E+04   330.2       31.35
1.000       1.000       164.4       0.000       0.000       40.00       40.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  46 D   32.79      3.4906E-03   29.06       130.5       179.5       130.5              V-C  1.6807E+04   330.0       33.45
1.000       1.000       164.0       0.000       0.000       40.00       40.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  47 D   32.72      3.2595E-03   31.45       128.0       182.0       128.0              V-C  1.6807E+04   329.8       35.56
1.000       1.000       163.6       0.000       0.000       40.00       40.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  48 D   32.66      3.0351E-03   33.85       125.7       184.5       125.7              V-C  1.6807E+04   329.6       37.66
1.000       1.000       163.3       0.000       0.000       40.00       40.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  49 D   32.63      2.8175E-03   36.24       123.4       187.0       123.4              V-C  1.6807E+04   329.4       39.77
1.000       1.000       163.2       0.000       0.000       40.00       40.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  50 D   32.62      2.6066E-03   38.64       121.2       189.5       121.2              V-C  1.6807E+04   329.2       41.88
1.000       1.000       163.1       0.000       0.000       40.00       40.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  51 D   32.63      2.4024E-03   41.03       119.1       192.0       119.1              V-C  1.6807E+04   329.0       43.98
1.000       1.000       163.1       0.000       0.000       40.00       40.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  52 D   32.66      2.2048E-03   43.42       117.2       194.5       117.2              V-C  1.6807E+04   328.8       46.09
1.000       1.000       163.3       0.000       0.000       40.00       40.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  53 D   32.70      2.0137E-03   45.82       115.3       197.0       115.3              V-C  1.6807E+04   328.6       48.20
1.000       1.000       163.5       0.000       0.000       40.00       40.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  54 D   32.77      1.8290E-03   48.21       113.6       199.5       113.6              V-C  1.6807E+04   328.4       50.30
1.000       1.000       163.9       0.000       0.000       40.00       40.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  55 D   32.86      1.6503E-03   50.61       111.9       202.0       111.9              V-C  1.6807E+04   328.2       52.41
1.000       1.000       164.3       0.000       0.000       40.00       40.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  56 D   32.97      1.4777E-03   53.00       110.3       204.5       110.3              V-C  1.6807E+04   328.0       54.52
1.000       1.000       164.9       0.000       0.000       40.00       40.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  57 D   33.10      1.3107E-03   55.39       108.9       207.0       108.9              V-C  1.6807E+04   327.8       56.62
1.000       1.000       165.5       0.000       0.000       40.00       40.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  58 D   33.24      1.1492E-03   57.79       107.5       209.5       107.5              V-C  1.6807E+04   327.6       58.73
1.000       1.000       166.2       0.000       0.000       40.00       40.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  59 D   33.40      9.9289E-04   60.18       106.2       212.0       106.2              V-C  1.6807E+04   327.4       60.83
1.000       1.000       167.0       0.000       0.000       40.00       40.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  60 D   32.66      8.4135E-04   62.58       100.3       214.5       107.2             UL-RL  5.0420E+04   327.2       62.94
1.000       1.000       163.3       0.000       0.000       40.00       40.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  61 D   31.88      6.9426E-04   64.97       94.36       217.0       108.5             UL-RL  5.0420E+04   327.0       65.05
1.000       1.000       159.4       0.000       0.000       40.00       40.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  62 D   31.15      5.5126E-04   67.36       88.58       219.5       109.7             UL-RL  5.0420E+04   326.8       67.15
1.000       1.000       155.7       0.000       0.000       40.00       40.00     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
```

63 D	30.45	4.1190E-04	69.76	82.98	222.0	111.0	UL-RL	5.0420E+04	326.6	69.26
1.000	1.000	152.2	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
64 D	29.78	2.7592E-04	72.15	77.54	224.5	112.2	UL-RL	5.0420E+04	326.4	71.37
1.000	1.000	148.9	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
65 D	29.14	1.4287E-04	74.55	72.24	227.0	113.5	UL-RL	5.0420E+04	326.2	73.47
1.000	1.000	145.7	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
66 D	28.53	1.2344E-05	76.94	67.06	229.5	114.7	UL-RL	5.0420E+04	326.0	75.58
1.000	1.000	142.6	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
67 D	27.93	-1.1602E-04	79.33	61.98	232.0	116.0	UL-RL	5.0420E+04	325.8	77.68
1.000	1.000	139.7	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
68 D	27.35	-2.4259E-04	81.73	56.98	234.5	117.2	UL-RL	5.0420E+04	325.6	79.79
1.000	1.000	136.8	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
69 D	26.79	-3.6770E-04	84.12	52.05	237.0	118.5	UL-RL	5.0420E+04	325.4	81.90
1.000	1.000	134.0	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
70 D	26.24	-4.9166E-04	86.52	47.18	239.5	119.7	UL-RL	5.0420E+04	325.2	84.00
1.000	1.000	131.2	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
71 D	25.69	-6.1481E-04	88.91	42.34	242.0	121.0	UL-RL	5.0420E+04	325.0	86.11
1.000	1.000	128.4	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
72 D	25.15	-7.3728E-04	91.30	37.53	244.5	122.2	UL-RL	5.0420E+04	324.8	88.22
1.000	1.000	125.7	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
73 D	24.61	-8.5935E-04	93.70	32.73	247.0	123.5	UL-RL	5.0420E+04	324.6	90.32
1.000	1.000	123.1	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
74 D	24.07	-9.8117E-04	96.09	27.95	249.5	124.7	UL-RL	5.0420E+04	324.4	92.43
1.000	1.000	120.4	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
75 D	23.54	-1.1029E-03	98.49	23.16	252.0	126.0	UL-RL	5.0420E+04	324.2	94.53
1.000	1.000	117.7	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
76 D	11.50	-1.2240E-03	100.9	18.39	254.5	127.2	UL-RL	5.0420E+04	324.0	96.63
1.000	1.000	115.0	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						

New Project

S T R E S S   R E S U L T S   F O R   G R O U P   N O.   3

Pali1500_253215   :
ELEMENT TYPE   2 NO.OF ELEMENTS. IN THIS GROUP   75
C U R R E N T   T I M E   I S   3.0000 SUBINCREMENT 00001/00001

 WALL2D ELEMENT

EL	TA	TB	MA	MB
1	-8.46490E-09	8.46490E-09	-8.44428E-10	-3.26808E-09
2	1.69381E-08	-1.69381E-08	4.11418E-09	-8.67475E-11
3	-3.12472E-09	3.12472E-09	1.46687E-09	-2.28420E-09
4	1.35166E-09	-1.35166E-09	2.08966E-09	-3.33982E-09
5	-8.15855E-09	8.15855E-09	2.64960E-09	-5.33551E-09
6	2.73189E-09	-2.73189E-09	4.77127E-09	-2.05219E-09
7	-5.91140E-09	5.91140E-09	1.71065E-09	-3.41697E-09
8	0.10151	-0.10151	3.56386E-09	2.03011E-02
9	0.54577	-0.54577	-2.03011E-02	0.12946
10	1.4060	-1.4060	-0.12946	0.41066
11	2.6823	-2.6823	-0.41066	0.94713
12	4.3746	-4.3746	-0.94713	1.8220
13	6.4829	-6.4829	-1.8220	3.1193
14	9.0074	-9.0074	-3.1193	4.9207
15	11.948	-11.948	-4.9207	7.3103
16	15.304	-15.304	-7.3103	10.371
17	19.077	-19.077	-10.371	14.187
18	23.265	-23.265	-14.187	18.840
19	27.870	-27.870	-18.840	24.414
20	32.890	-32.890	-24.414	30.992
21	40.600	-40.600	-30.992	39.116
22	48.873	-48.873	-39.116	48.890
23	57.708	-57.708	-48.890	60.432
24	67.107	-67.107	-60.432	73.853
25	77.069	-77.069	-73.853	89.267
26	87.594	-87.594	-89.267	106.79
27	98.682	-98.682	-106.79	126.52
28	110.33	-110.33	-126.52	148.59
29	122.55	-122.55	-148.59	173.11
30	135.32	-135.32	-173.11	200.17
31	143.45	-143.45	-200.17	228.87
32	150.02	-150.02	-228.87	258.87
33	155.04	-155.04	-258.87	289.88
34	158.99	-158.99	-289.88	321.67
35	162.39	-162.39	-321.67	354.15
36	165.25	-165.25	-354.15	387.20
37	167.56	-167.56	-387.20	420.73
38	169.32	-169.32	-420.73	454.60
39	170.54	-170.54	-454.60	488.70
40	171.21	-171.21	-488.70	522.95
41	146.70	-146.70	-522.95	552.29
42	123.04	-123.04	-552.29	576.89
43	100.23	-100.23	-576.89	596.94
44	78.240	-78.240	-596.94	612.59
45	57.062	-57.062	-612.59	624.00
46	36.674	-36.674	-624.00	631.34
47	17.059	-17.059	-631.34	634.75
48	-1.8059	1.8059	-634.75	634.39
49	-19.940	19.940	-634.39	630.40
50	-37.363	37.363	-630.40	622.93
51	-54.098	54.098	-622.93	612.11
52	-70.164	70.164	-612.11	598.08
53	-85.581	85.581	-598.08	580.96
54	-100.37	100.37	-580.96	560.88
55	-114.55	114.55	-560.88	537.97
56	-128.14	128.14	-537.97	512.34
57	-141.16	141.16	-512.34	484.10
58	-153.63	153.63	-484.10	453.38
59	-165.56	165.56	-453.38	420.27
60	-174.95	174.95	-420.27	385.28
61	-181.29	181.29	-385.28	349.02
62	-184.66	184.66	-349.02	312.07
63	-185.15	185.15	-312.07	275.04
64	-182.81	182.81	-275.04	238.48
65	-177.72	177.72	-238.48	202.93
66	-169.91	169.91	-202.93	168.95
67	-159.45	159.45	-168.95	137.06
68	-147.02	147.02	-137.06	107.66
69	-132.84	132.84	-107.66	81.088
70	-116.90	116.90	-81.088	57.695

```
   71 -99.338      99.338     -57.695      37.828
   72 -80.144      80.144     -37.828      21.799
   73 -59.327      59.327     -21.799      9.9334
   74 -36.891      36.891     -9.9334      2.5553
   75 -12.834      12.834     -2.5553    -7.13100E-11

ITER     0 RNORM = 293.3     RMNORM= 0.000
           RINORM=0.1778E+07 RIMNOR=0.1707E+08
           RENORM= 332.1     REMNOR=0.8424E-17 RATIO =0.1366E-01 TOLER =0.1000E-03  NOT CONVERGED
           RFMAX = 185.1     RMMAX = 634.8
           RTSMAL=0.1000E-02 RMSMAL=0.1000E-02
           RDT   =0.1778E+07 RDR   =0.1707E+08
           RATIOT=0.1366E-01 RATIOR= 0.000
           MAX UN= 3.168     IEQ=     9 NODE      5 DOF   1  Y-DISPL.F
           MIN UN=-.6327E-02 IEQ=   139 NODE     70 DOF   1  Y-DISPL.F
           NO. OF CONTACT CONSTRAINT VIOLATIONS     0


ITER     2 RNORM = 293.3     RMNORM= 0.000
           RINORM=0.1778E+07 RIMNOR=0.1707E+08
           RENORM= 3583.     REMNOR=0.2032E-15 RATIO =0.4489E-01 TOLER =0.1000E-03  NOT CONVERGED
           RFMAX = 185.1     RMMAX = 634.8
           RTSMAL=0.1000E-02 RMSMAL=0.1000E-02
           RDT   =0.1778E+07 RDR   =0.1707E+08
           RATIOT=0.4489E-01 RATIOR= 0.000
           MAX UN= 27.93     IEQ=   107 NODE     54 DOF   1  Y-DISPL.F
           MIN UN=-11.48     IEQ=   149 NODE     75 DOF   1  Y-DISPL.F
           NO. OF CONTACT CONSTRAINT VIOLATIONS     0


ITER     3 RNORM = 293.3     RMNORM= 0.000
           RINORM=0.1778E+07 RIMNOR=0.1707E+08
           RENORM= 1160.     REMNOR=0.3072E-15 RATIO =0.2553E-01 TOLER =0.1000E-03  NOT CONVERGED
           RFMAX = 185.1     RMMAX = 634.8
           RTSMAL=0.1000E-02 RMSMAL=0.1000E-02
           RDT   =0.1778E+07 RDR   =0.1707E+08
           RATIOT=0.2553E-01 RATIOR= 0.000
           MAX UN= 16.32     IEQ=    95 NODE     48 DOF   1  Y-DISPL.F
           MIN UN=-14.28     IEQ=   139 NODE     70 DOF   1  Y-DISPL.F
           NO. OF CONTACT CONSTRAINT VIOLATIONS     0


ITER     4 RNORM = 293.3     RMNORM= 0.000
           RINORM=0.1778E+07 RIMNOR=0.1707E+08
           RENORM= 184.8     REMNOR=0.5427E-15 RATIO =0.1019E-01 TOLER =0.1000E-03  NOT CONVERGED
           RFMAX = 185.1     RMMAX = 634.8
           RTSMAL=0.1000E-02 RMSMAL=0.1000E-02
           RDT   =0.1778E+07 RDR   =0.1707E+08
           RATIOT=0.1019E-01 RATIOR= 0.000
           MAX UN= 10.23     IEQ=   107 NODE     54 DOF   1  Y-DISPL.F
           MIN UN=-.5572     IEQ=   131 NODE     66 DOF   1  Y-DISPL.F
           NO. OF CONTACT CONSTRAINT VIOLATIONS     0


ITER     5 RNORM = 293.3     RMNORM= 0.000
           RINORM=0.1778E+07 RIMNOR=0.1707E+08
           RENORM= 14.47     REMNOR=0.3764E-15 RATIO =0.2853E-02 TOLER =0.1000E-03  NOT CONVERGED
           RFMAX = 185.1     RMMAX = 634.8
           RTSMAL=0.1000E-02 RMSMAL=0.1000E-02
           RDT   =0.1778E+07 RDR   =0.1707E+08
           RATIOT=0.2853E-02 RATIOR= 0.000
           MAX UN= 2.801     IEQ=   113 NODE     57 DOF   1  Y-DISPL.F
           MIN UN=-2.491     IEQ=   133 NODE     67 DOF   1  Y-DISPL.F
           NO. OF CONTACT CONSTRAINT VIOLATIONS     0


ITER     6 RNORM = 293.3     RMNORM= 0.000
           RINORM=0.1778E+07 RIMNOR=0.1707E+08
           RENORM=0.6277E-13 REMNOR=0.2016E-15 RATIO =0.1879E-09 TOLER =0.1000E-03      CONVERGED !
           RFMAX = 185.1     RMMAX = 634.8
           RTSMAL=0.1000E-02 RMSMAL=0.1000E-02
           RDT   =0.1778E+07 RDR   =0.1707E+08
           RATIOT=0.1879E-09 RATIOR= 0.000
           MAX UN=0.8459E-07 IEQ=    15 NODE      8 DOF   1  Y-DISPL.F
           MIN UN=-.8165E-07 IEQ=    27 NODE     14 DOF   1  Y-DISPL.F
           NO. OF CONTACT CONSTRAINT VIOLATIONS     0
```

```
+-----------------------------------------------------------------------------------------------------------------------+
|                  PARATIEPLUS(TM)   NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*             |
|                                                                                                                       |
|                                                ParatiePlus                                                            |
|                                Exe Time :28 January 2022   16:22:52                                                   |
+-----------------------------------------------------------------------------------------------------------------------+
New Project
SOLUTION REACHED USING     6 ITERATIONS ON   80

P R I N T   O U T   F O R   T I M E   S T E P    4     ( AT TIME   4.000     ) SUBINCREMENT 00001/00001

PRINT OUT OF ACTIVE COMPONENTS (FIXED NODES ARE NOT PRINTED OUT)

          Y-DISPL.F        X-ROT. F
            02               04
    1   8.2102243E-02  -6.9393845E-03
    2   8.0714367E-02  -6.9393761E-03
    3   7.9326495E-02  -6.9393340E-03
    4   7.7938638E-02  -6.9392247E-03
    5   7.6550812E-02  -6.9390145E-03
    6   7.5162347E-02  -6.9386695E-03
    7   7.3774661E-02  -6.9381565E-03
    8   7.2387098E-02  -6.9374417E-03
    9   7.0996666E-02  -6.9364909E-03
   10   6.9609570E-02  -6.9352675E-03
   11   6.8222750E-02  -6.9337310E-03
   12   6.6836273E-02  -6.9318365E-03
   13   6.5450214E-02  -6.9295345E-03
   14   6.4063968E-02  -6.9267698E-03
   15   6.2679019E-02  -6.9234868E-03
   16   6.1294783E-02  -6.9196216E-03
   17   5.9911384E-02  -6.9151072E-03
   18   5.8528959E-02  -6.9098720E-03
   19   5.7147660E-02  -6.9038403E-03
   20   5.5767653E-02  -6.8969316E-03
   21   5.4390792E-02  -6.8890612E-03
   22   5.3013180E-02  -6.8801232E-03
   23   5.1638161E-02  -6.8700080E-03
   24   5.0265293E-02  -6.8585869E-03
   25   4.8894851E-02  -6.8457295E-03
   26   4.7527135E-02  -6.8312994E-03
   27   4.6162474E-02  -6.8151541E-03
   28   4.4801227E-02  -6.7971454E-03
   29   4.3443780E-02  -6.7771188E-03
   30   4.2089878E-02  -6.7549023E-03
   31   4.0741326E-02  -6.7303520E-03
   32   3.9397931E-02  -6.7033277E-03
   33   3.8060195E-02  -6.6737452E-03
   34   3.6728637E-02  -6.6415325E-03
   35   3.5403790E-02  -6.6066272E-03
   36   3.4086198E-02  -6.5689727E-03
   37   3.2776417E-02  -6.5285156E-03
   38   3.1474362E-02  -6.4851833E-03
   39   3.0181913E-02  -6.4389724E-03
   40   2.8898999E-02  -6.3898189E-03
   41   2.7626147E-02  -6.3376830E-03
   42   2.6364068E-02  -6.2826870E-03
   43   2.5113250E-02  -6.2251161E-03
   44   2.3874181E-02  -6.1652606E-03
   45   2.2647286E-02  -6.1034157E-03
   46   2.1432933E-02  -6.0398822E-03
   47   2.0230834E-02  -5.9749337E-03
   48   1.9042434E-02  -5.9089471E-03
   49   1.7867312E-02  -5.8422084E-03
   50   1.6705586E-02  -5.7750413E-03
   51   1.5557309E-02  -5.7077756E-03
   52   1.4422466E-02  -5.6407473E-03
   53   1.3300978E-02  -5.5742983E-03
   54   1.2192692E-02  -5.5087766E-03
   55   1.1096844E-02  -5.4445048E-03
   56   1.0014236E-02  -5.3819074E-03
   57   8.9439536E-03  -5.3213186E-03
   58   7.8855567E-03  -5.2631111E-03
   59   6.8385321E-03  -5.2076593E-03
   60   5.8022923E-03  -5.1553174E-03
   61   4.7761833E-03  -5.1064020E-03
   62   3.7594911E-03  -5.0611929E-03
   63   2.7509475E-03  -5.0199137E-03
   64   1.7507490E-03  -4.9828127E-03
   65   7.5754058E-04  -4.9500390E-03
   66  -2.2955634E-04  -4.9217115E-03
   67  -1.2114330E-03  -4.8978186E-03
   68  -2.1889604E-03  -4.8781737E-03
   69  -3.1629592E-03  -4.8624793E-03
   70  -4.1341854E-03  -4.8503847E-03
   71  -5.1038044E-03  -4.8414933E-03
   72  -6.0714460E-03  -4.8353804E-03
   73  -7.0381032E-03  -4.8315670E-03
   74  -8.0041852E-03  -4.8295389E-03
```

```
75  -8.9699942E-03  -4.8287411E-03
76  -9.9313717E-03  -4.8285787E-03
```

```
 +--------------------------------------------------------------------------------------------------------------------------+
 |                   PARATIEPLUS(TM)   NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*                |
 |                                                                                                                          |
 |                                                        ParatiePlus                                                       |
 |                                          Exe Time :28 January 2022   16:22:52                                            |
 +--------------------------------------------------------------------------------------------------------------------------+
 New Project


 S T R E S S    R E S U L T S    F O R    G R O U P  N O.   1

 0_L                                                              :
 ELEMENT TYPE    5 NO.OF ELEMENTS. IN THIS GROUP   76
 C U R R E N T    T I M E    I S      4.0000 SUBINCREMENT 00001/00001

  HARDENING 2D SOIL ELEMENT

  ****** TOTAL STRESS FORMULATION *****

  EL *   FORCE     DISPL-Y  VERTICAL-P  HORIZON.-P     MAX-V-P     MAX-H-P          STATE   STIFFNESS Z-LEVEL      PORE         E FAC-
TOR    UFACTOR       Peq          Su_a        Su_p        Cohe_a      Cohe_p     LAYER                             ZFO          QS
QSL         ZD          ZPL          Kz
 ------------------------------------------------------------------------------------------------------------------------------------
------------------------------------------------------------------------------------------------------------------------------------
----------------------------------------------
   1 D  0.000     -8.2102E-02  0.000       0.000       76.00       38.00        ACTIVE  0.000       339.0       0.000
1.000       1.000       0.000       0.000       0.000       8.000       8.000    Aate_364268_2050_L_0               0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   2 D  0.000     -8.0714E-02  3.800       0.000       79.80       39.90        ACTIVE  0.000       338.8       0.000
1.000       1.000       0.000       0.000       0.000       8.000       8.000    Aate_364268_2050_L_0               0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   3 D  0.000     -7.9326E-02  7.600       0.000       83.60       41.80        ACTIVE  0.000       338.6       0.000
1.000       1.000       0.000       0.000       0.000       8.000       8.000    Aate_364268_2050_L_0               0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   4 D  0.000     -7.7939E-02  11.40       0.000       87.40       43.70        ACTIVE  0.000       338.4       0.000
1.000       1.000       0.000       0.000       0.000       8.000       8.000    Aate_364268_2050_L_0               0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   5 D  0.000     -7.6551E-02  15.20       0.000       91.20       45.60        ACTIVE  0.000       338.2       0.000
1.000       1.000       0.000       0.000       0.000       8.000       8.000    Aate_364268_2050_L_0               0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   6 D  0.000     -7.5162E-02  19.00       0.000       95.00       47.50        ACTIVE  0.000       338.0       0.000
1.000       1.000       0.000       0.000       0.000       8.000       8.000    Aate_364268_2050_L_0               0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   7 D  0.000     -7.3775E-02  22.80       0.000       98.80       49.40        ACTIVE  0.000       337.8       0.000
1.000       1.000       0.000       0.000       0.000       8.000       8.000    Aate_364268_2050_L_0               0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   8 D 0.1015     -7.2387E-02  26.60      0.5075       102.6       51.30        ACTIVE  0.000       337.6       0.000
1.000       1.000      0.5075       0.000       0.000       8.000       8.000    Aate_364268_2050_L_0               0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
   9 D 0.4443     -7.0997E-02  30.07       1.893       105.7       52.95        ACTIVE  0.000       337.4      0.3288
1.000       1.000       2.221       0.000       0.000       8.000       8.000    Aate_364268_2050_L_0               0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  10 D 0.8603     -6.9610E-02  32.93       3.034       107.5       53.84        ACTIVE  0.000       337.2       1.267
1.000       1.000       4.301       0.000       0.000       8.000       8.000    Aate_364268_2050_L_0               0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  11 D  1.276     -6.8223E-02  35.80       4.176       109.3       54.73        ACTIVE  0.000       337.0       2.205
1.000       1.000       6.381       0.000       0.000       8.000       8.000    Aate_364268_2050_L_0               0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  12 D  1.692     -6.6836E-02  38.66       5.318       111.1       55.62        ACTIVE  0.000       336.8       3.143
1.000       1.000       8.461       0.000       0.000       8.000       8.000    Aate_364268_2050_L_0               0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  13 D  2.108     -6.5450E-02  41.52       6.460       112.9       56.52        ACTIVE  0.000       336.6       4.081
1.000       1.000       10.54       0.000       0.000       8.000       8.000    Aate_364268_2050_L_0               0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  14 D  2.524     -6.4064E-02  44.38       7.603       114.7       57.41        ACTIVE  0.000       336.4       5.020
1.000       1.000       12.62       0.000       0.000       8.000       8.000    Aate_364268_2050_L_0               0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  15 D  2.940     -6.2679E-02  47.25       8.744       116.4       58.30        ACTIVE  0.000       336.2       5.958
1.000       1.000       14.70       0.000       0.000       8.000       8.000    Aate_364268_2050_L_0               0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  16 D  3.356     -6.1295E-02  50.11       9.886       118.2       59.19        ACTIVE  0.000       336.0       6.896
1.000       1.000       16.78       0.000       0.000       8.000       8.000    Aate_364268_2050_L_0               0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  17 D  3.772     -5.9911E-02  52.97       11.03       120.0       60.09        ACTIVE  0.000       335.8       7.834
1.000       1.000       18.86       0.000       0.000       8.000       8.000    Aate_364268_2050_L_0               0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  18 D  4.188     -5.8529E-02  55.83       12.17       121.8       60.98        ACTIVE  0.000       335.6       8.772
1.000       1.000       20.94       0.000       0.000       8.000       8.000    Aate_364268_2050_L_0               0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  19 D  4.604     -5.7148E-02  58.69       13.31       123.6       61.87        ACTIVE  0.000       335.4       9.710
1.000       1.000       23.02       0.000       0.000       8.000       8.000    Aate_364268_2050_L_0               0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  20 D  5.021     -5.5768E-02  61.56       14.45       125.4       62.77        ACTIVE  0.000       335.2       10.65
1.000       1.000       25.10       0.000       0.000       8.000       8.000    Aate_364268_2050_L_0               0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  21 D  7.709     -5.4391E-02  64.42       26.96       127.2       71.53        ACTIVE  0.000       335.0       11.59
1.000       1.000       38.55       0.000       0.000       8.000       8.000    Salt_1270_202756_L_0               0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  22 D  8.273     -5.3013E-02  67.48       28.84       129.2       72.65        ACTIVE  0.000       334.8       12.53
```

1.000	1.000	41.36	0.000	0.000	8.000	8.000	Salt_1270_202756_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
23 D	8.836	-5.1638E-02	70.54	30.72	131.2	73.76	ACTIVE	0.000	334.6	13.46	
1.000	1.000	44.18	0.000	0.000	8.000	8.000	Salt_1270_202756_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
24 D	9.399	-5.0265E-02	73.60	32.59	133.2	74.88	ACTIVE	0.000	334.4	14.40	
1.000	1.000	46.99	0.000	0.000	8.000	8.000	Salt_1270_202756_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
25 D	9.962	-4.8895E-02	76.67	34.47	135.2	76.00	ACTIVE	0.000	334.2	15.34	
1.000	1.000	49.81	0.000	0.000	8.000	8.000	Salt_1270_202756_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
26 D	10.52	-4.7527E-02	79.73	36.35	137.1	77.11	ACTIVE	0.000	334.0	16.28	
1.000	1.000	52.62	0.000	0.000	8.000	8.000	Salt_1270_202756_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
27 D	11.09	-4.6162E-02	82.79	38.22	139.1	78.23	ACTIVE	0.000	333.8	17.22	
1.000	1.000	55.44	0.000	0.000	8.000	8.000	Salt_1270_202756_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
28 D	11.65	-4.4801E-02	85.85	40.10	141.1	79.35	ACTIVE	0.000	333.6	18.15	
1.000	1.000	58.25	0.000	0.000	8.000	8.000	Salt_1270_202756_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
29 D	12.21	-4.3444E-02	88.91	41.98	143.1	80.46	ACTIVE	0.000	333.4	19.09	
1.000	1.000	61.07	0.000	0.000	8.000	8.000	Salt_1270_202756_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
30 D	12.78	-4.2090E-02	91.98	43.85	145.1	81.58	ACTIVE	0.000	333.2	20.03	
1.000	1.000	63.89	0.000	0.000	8.000	8.000	Salt_1270_202756_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
31 D	13.34	-4.0741E-02	95.04	45.73	147.1	82.70	ACTIVE	0.000	333.0	20.97	
1.000	1.000	66.70	0.000	0.000	8.000	8.000	Salt_1270_202756_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
32 D	13.90	-3.9398E-02	98.10	47.61	149.1	83.81	ACTIVE	0.000	332.8	21.91	
1.000	1.000	69.52	0.000	0.000	8.000	8.000	Salt_1270_202756_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
33 D	14.47	-3.8060E-02	101.2	49.49	151.1	84.93	ACTIVE	0.000	332.6	22.85	
1.000	1.000	72.33	0.000	0.000	8.000	8.000	Salt_1270_202756_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
34 D	15.03	-3.6729E-02	104.2	51.36	153.1	86.05	ACTIVE	0.000	332.4	23.78	
1.000	1.000	75.15	0.000	0.000	8.000	8.000	Salt_1270_202756_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
35 D	15.59	-3.5404E-02	107.3	53.24	155.1	87.17	ACTIVE	0.000	332.2	24.72	
1.000	1.000	77.96	0.000	0.000	8.000	8.000	Salt_1270_202756_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
36 D	16.16	-3.4086E-02	110.3	55.12	157.1	88.28	ACTIVE	0.000	332.0	25.66	
1.000	1.000	80.78	0.000	0.000	8.000	8.000	Salt_1270_202756_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
37 D	16.72	-3.2776E-02	113.4	56.99	159.0	89.40	ACTIVE	0.000	331.8	26.60	
1.000	1.000	83.59	0.000	0.000	8.000	8.000	Salt_1270_202756_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
38 D	17.28	-3.1474E-02	116.5	58.87	161.0	90.52	ACTIVE	0.000	331.6	27.54	
1.000	1.000	86.41	0.000	0.000	8.000	8.000	Salt_1270_202756_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
39 D	17.84	-3.0182E-02	119.5	60.75	163.0	91.63	ACTIVE	0.000	331.4	28.47	
1.000	1.000	89.22	0.000	0.000	8.000	8.000	Salt_1270_202756_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
40 D	18.41	-2.8899E-02	122.6	62.63	165.0	92.75	ACTIVE	0.000	331.2	29.41	
1.000	1.000	92.04	0.000	0.000	8.000	8.000	Salt_1270_202756_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
41 D	8.919	-2.7626E-02	125.7	14.24	167.0	83.51	ACTIVE	0.000	331.0	30.35	
1.000	1.000	44.60	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
42 D	9.617	-2.6364E-02	128.3	15.84	169.5	84.76	ACTIVE	0.000	330.8	32.25	
1.000	1.000	48.08	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
43 D	10.31	-2.5113E-02	130.9	17.43	172.0	86.01	ACTIVE	0.000	330.6	34.14	
1.000	1.000	51.57	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
44 D	11.01	-2.3874E-02	133.5	19.02	174.5	87.26	ACTIVE	0.000	330.4	36.03	
1.000	1.000	55.06	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
45 D	11.71	-2.2647E-02	136.1	20.61	177.0	88.51	ACTIVE	0.000	330.2	37.93	
1.000	1.000	58.54	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
46 D	12.41	-2.1433E-02	138.7	22.21	179.5	89.76	ACTIVE	0.000	330.0	39.82	
1.000	1.000	62.03	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
47 D	13.10	-2.0231E-02	141.3	23.80	182.0	91.01	ACTIVE	0.000	329.8	41.72	
1.000	1.000	65.52	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
48 D	13.80	-1.9042E-02	143.9	25.39	184.5	92.26	ACTIVE	0.000	329.6	43.61	
1.000	1.000	69.00	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
49 D	14.50	-1.7867E-02	146.5	26.98	187.0	93.51	ACTIVE	0.000	329.4	45.50	
1.000	1.000	72.49	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
50 D	15.19	-1.6706E-02	149.1	28.58	189.5	94.76	ACTIVE	0.000	329.2	47.40	
1.000	1.000	75.97	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
51 D	15.89	-1.5557E-02	151.7	30.17	192.0	96.01	ACTIVE	0.000	329.0	49.29	
1.000	1.000	79.46	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							
52 D	16.59	-1.4422E-02	154.3	31.76	194.5	97.26	ACTIVE	0.000	328.8	51.19	
1.000	1.000	82.95	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0				0.0000
0.0000	0.0000	0.0000	0.0000	0.0000							

53 D	17.29	-1.3301E-02	156.9	33.35	197.0	98.51	ACTIVE	0.000	328.6	53.08
1.000	1.000	86.43	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
54 D	17.98	-1.2193E-02	159.5	34.95	199.5	99.75	ACTIVE	0.000	328.4	54.97
1.000	1.000	89.92	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
55 D	18.68	-1.1097E-02	162.1	36.54	202.0	101.0	ACTIVE	0.000	328.2	56.87
1.000	1.000	93.41	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
56 D	19.38	-1.0014E-02	164.8	38.13	204.5	102.3	ACTIVE	0.000	328.0	58.76
1.000	1.000	96.89	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
57 D	20.08	-8.9440E-03	167.4	39.72	207.0	103.5	ACTIVE	0.000	327.8	60.66
1.000	1.000	100.4	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
58 D	20.77	-7.8856E-03	170.0	41.32	209.5	104.8	ACTIVE	0.000	327.6	62.55
1.000	1.000	103.9	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
59 D	21.47	-6.8385E-03	172.6	42.91	212.0	106.0	ACTIVE	0.000	327.4	64.44
1.000	1.000	107.4	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
60 D	22.17	-5.8023E-03	175.2	44.50	214.5	107.3	ACTIVE	0.000	327.2	66.34
1.000	1.000	110.8	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
61 D	22.86	-4.7762E-03	177.8	46.09	217.0	108.5	ACTIVE	0.000	327.0	68.23
1.000	1.000	114.3	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
62 D	23.56	-3.7595E-03	180.4	47.69	219.5	109.7	ACTIVE	0.000	326.8	70.12
1.000	1.000	117.8	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
63 D	24.26	-2.7509E-03	183.0	49.28	222.0	111.0	ACTIVE	0.000	326.6	72.02
1.000	1.000	121.3	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
64 D	24.96	-1.7507E-03	185.6	50.87	224.5	112.2	ACTIVE	0.000	326.4	73.91
1.000	1.000	124.8	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
65 D	27.38	-7.5754E-04	188.2	61.09	227.0	113.5	UL-RL	5.5782E+04	326.2	75.81
1.000	1.000	136.9	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
66 D	36.21	2.2956E-04	190.8	103.4	229.5	121.8	UL-RL	5.5782E+04	326.0	77.70
1.000	1.000	181.1	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
67 D	41.94	1.2114E-03	193.4	130.1	232.0	137.7	UL-RL	5.5782E+04	325.8	79.59
1.000	1.000	209.7	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
68 D	47.10	2.1890E-03	196.0	154.0	234.5	154.9	UL-RL	5.5782E+04	325.6	81.49
1.000	1.000	235.5	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
69 D	51.47	3.1630E-03	198.6	174.0	237.0	174.0	V-C	1.8594E+04	325.4	83.38
1.000	1.000	257.4	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
70 D	55.71	4.1342E-03	201.2	193.3	239.5	193.3	V-C	1.8594E+04	325.2	85.28
1.000	1.000	278.6	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
71 D	59.95	5.1038E-03	203.8	212.6	242.0	212.6	V-C	1.8594E+04	325.0	87.17
1.000	1.000	299.8	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
72 D	64.18	6.0714E-03	206.5	231.8	244.5	231.8	V-C	1.8594E+04	324.8	89.06
1.000	1.000	320.9	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
73 D	68.41	7.0381E-03	209.1	251.1	247.0	251.1	V-C	1.8594E+04	324.6	90.96
1.000	1.000	342.0	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
74 D	72.63	8.0042E-03	211.7	270.3	249.5	270.3	V-C	1.8594E+04	324.4	92.85
1.000	1.000	363.1	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
75 D	76.85	8.9700E-03	214.3	289.5	252.0	289.5	V-C	1.8594E+04	324.2	94.75
1.000	1.000	384.3	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
76 D	40.53	9.9314E-03	216.9	308.6	254.5	308.6	V-C	1.8594E+04	324.0	96.63
1.000	1.000	405.3	0.000	0.000	40.00	40.00	Pa_244788_244789_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						

New Project

S T R E S S R E S U L T S F O R G R O U P N O. 2

0_R :
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 76
C U R R E N T T I M E I S 4.0000 SUBINCREMENT 00001/00001

HARDENING 2D SOIL ELEMENT

****** TOTAL STRESS FORMULATION *****

EL * TOR QSL	FORCE UFACTOR ZD	DISPL-Y Peq ZPL	VERTICAL-P Su_a Kz	HORIZON.-P Su_p	MAX-V-P Cohe_a	MAX-H-P Cohe_p	STATE LAYER	STIFFNESS	Z-LEVEL ZFO	PORE	E FAC-QS
1	0.000	--	--	--	--	--	REMOVED	--	339.0	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
2	0.000	--	--	--	--	--	REMOVED	--	338.8	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
3	0.000	--	--	--	--	--	REMOVED	--	338.6	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
4	0.000	--	--	--	--	--	REMOVED	--	338.4	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
5	0.000	--	--	--	--	--	REMOVED	--	338.2	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
6	0.000	--	--	--	--	--	REMOVED	--	338.0	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
7	0.000	--	--	--	--	--	REMOVED	--	337.8	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
8	0.000	--	--	--	--	--	REMOVED	--	337.6	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
9	0.000	--	--	--	--	--	REMOVED	--	337.4	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
10	0.000	--	--	--	--	--	REMOVED	--	337.2	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
11	0.000	--	--	--	--	--	REMOVED	--	337.0	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
12	0.000	--	--	--	--	--	REMOVED	--	336.8	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
13	0.000	--	--	--	--	--	REMOVED	--	336.6	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
14	0.000	--	--	--	--	--	REMOVED	--	336.4	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
15	0.000	--	--	--	--	--	REMOVED	--	336.2	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
16	0.000	--	--	--	--	--	REMOVED	--	336.0	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
17	0.000	--	--	--	--	--	REMOVED	--	335.8	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
18	0.000	--	--	--	--	--	REMOVED	--	335.6	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
19	0.000	--	--	--	--	--	REMOVED	--	335.4	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
20	0.000	--	--	--	--	--	REMOVED	--	335.2	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
21	0.000	--	--	--	--	--	REMOVED	--	335.0	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
22	0.000	--	--	--	--	--	REMOVED	--	334.8	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
23	0.000	--	--	--	--	--	REMOVED	--	334.6	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
24	0.000	--	--	--	--	--	REMOVED	--	334.4	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
25	0.000	--	--	--	--	--	REMOVED	--	334.2	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
26	0.000	--	--	--	--	--	REMOVED	--	334.0	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
27	0.000	--	--	--	--	--	REMOVED	--	333.8	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
28	0.000	--	--	--	--	--	REMOVED	--	333.6	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
29	0.000	--	--	--	--	--	REMOVED	--	333.4	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
30	0.000	--	--	--	--	--	REMOVED	--	333.2	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
31 D	4.845	4.0741E-02	8.0000E-03	24.22	146.9	82.53	PASSIVE	0.000	333.0	0.000	
1.000	1.000	24.22	0.000	0.000	8.308	8.308	Salt_1270_202756_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
32 D	6.543	3.9398E-02	4.008	32.71	148.9	83.66	PASSIVE	0.000	332.8	0.000	

```
1.000       1.000       32.71       0.000       0.000       8.308       8.308     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  33 D   8.241       3.8060E-02  8.008       41.20       150.9       84.79        PASSIVE   0.000       332.6       0.000
1.000       1.000       41.20       0.000       0.000       8.308       8.308     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  34 D   9.533       3.6729E-02  10.52       46.18       152.9       85.92        PASSIVE   0.000       332.4       1.488
1.000       1.000       47.67       0.000       0.000       8.308       8.308     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  35 D   10.40       3.5404E-02  11.46       47.46       154.9       87.05        PASSIVE   0.000       332.2       4.550
1.000       1.000       52.01       0.000       0.000       8.308       8.308     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  36 D   11.28       3.4086E-02  12.40       48.78       156.9       88.18        PASSIVE   0.000       332.0       7.612
1.000       1.000       56.39       0.000       0.000       8.308       8.308     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  37 D   12.16       3.2776E-02  13.33       50.13       158.9       89.31        PASSIVE   0.000       331.8       10.67
1.000       1.000       60.80       0.000       0.000       8.308       8.308     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  38 D   13.05       3.1474E-02  14.27       51.49       160.9       90.44        PASSIVE   0.000       331.6       13.74
1.000       1.000       65.23       0.000       0.000       8.308       8.308     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  39 D   13.94       3.0182E-02  15.21       52.88       162.9       91.56        PASSIVE   0.000       331.4       16.80
1.000       1.000       69.68       0.000       0.000       8.308       8.308     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  40 D   14.83       2.8899E-02  16.15       54.28       164.9       92.69        PASSIVE   0.000       331.2       19.86
1.000       1.000       74.14       0.000       0.000       8.308       8.308     Salt_1270_202756_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  41 D   35.56       2.7626E-02  17.09       154.9       166.9       154.9        PASSIVE   0.000       331.0       22.92
1.000       1.000       177.8       0.000       0.000       41.54       41.54     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  42 D   36.70       2.6364E-02  19.48       158.5       169.4       158.5        PASSIVE   0.000       330.8       25.03
1.000       1.000       183.5       0.000       0.000       41.54       41.54     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  43 D   37.88       2.5113E-02  21.88       162.2       171.9       162.2        PASSIVE   0.000       330.6       27.13
1.000       1.000       189.4       0.000       0.000       41.54       41.54     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  44 D   39.08       2.3874E-02  24.27       166.1       174.4       166.1        PASSIVE   0.000       330.4       29.24
1.000       1.000       195.4       0.000       0.000       41.54       41.54     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  45 D   40.29       2.2647E-02  26.67       170.1       176.9       170.1        PASSIVE   0.000       330.2       31.35
1.000       1.000       201.5       0.000       0.000       41.54       41.54     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  46 D   41.53       2.1433E-02  29.06       174.2       179.5       174.2        PASSIVE   0.000       330.0       33.45
1.000       1.000       207.6       0.000       0.000       41.54       41.54     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  47 D   42.77       2.0231E-02  31.45       178.3       182.0       178.3        PASSIVE   0.000       329.8       35.56
1.000       1.000       213.8       0.000       0.000       41.54       41.54     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  48 D   44.02       1.9042E-02  33.85       182.4       184.5       182.4        PASSIVE   0.000       329.6       37.66
1.000       1.000       220.1       0.000       0.000       41.54       41.54     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  49 D   45.28       1.7867E-02  36.24       186.6       187.0       186.6        PASSIVE   0.000       329.4       39.77
1.000       1.000       226.4       0.000       0.000       41.54       41.54     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  50 D   46.54       1.6706E-02  38.64       190.8       189.5       190.8        PASSIVE   0.000       329.2       41.88
1.000       1.000       232.7       0.000       0.000       41.54       41.54     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  51 D   47.81       1.5557E-02  41.03       195.1       192.0       195.1        PASSIVE   0.000       329.0       43.98
1.000       1.000       239.0       0.000       0.000       41.54       41.54     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  52 D   49.08       1.4422E-02  43.42       199.3       194.5       199.3        PASSIVE   0.000       328.8       46.09
1.000       1.000       245.4       0.000       0.000       41.54       41.54     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  53 D   50.36       1.3301E-02  45.82       203.6       197.0       203.6        PASSIVE   0.000       328.6       48.20
1.000       1.000       251.8       0.000       0.000       41.54       41.54     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  54 D   51.63       1.2193E-02  48.21       207.9       199.5       207.9        PASSIVE   0.000       328.4       50.30
1.000       1.000       258.2       0.000       0.000       41.54       41.54     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  55 D   52.91       1.1097E-02  50.61       212.2       202.0       212.2        PASSIVE   0.000       328.2       52.41
1.000       1.000       264.6       0.000       0.000       41.54       41.54     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  56 D   54.20       1.0014E-02  53.00       216.5       204.5       216.5        PASSIVE   0.000       328.0       54.52
1.000       1.000       271.0       0.000       0.000       41.54       41.54     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  57 D   55.48       8.9440E-03  55.39       220.8       207.0       220.8        PASSIVE   0.000       327.8       56.62
1.000       1.000       277.4       0.000       0.000       41.54       41.54     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  58 D   55.88       7.8856E-03  57.79       220.7       209.5       220.7             V-C  1.6807E+04   327.6       58.73
1.000       1.000       279.4       0.000       0.000       41.54       41.54     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  59 D   53.05       6.8385E-03  60.18       204.4       212.0       204.4             V-C  1.6807E+04   327.4       60.83
1.000       1.000       265.2       0.000       0.000       41.54       41.54     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  60 D   50.25       5.8023E-03  62.58       188.3       214.5       188.3             V-C  1.6807E+04   327.2       62.94
1.000       1.000       251.3       0.000       0.000       41.54       41.54     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  61 D   47.49       4.7762E-03  64.97       172.4       217.0       172.4             V-C  1.6807E+04   327.0       65.05
1.000       1.000       237.4       0.000       0.000       41.54       41.54     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
  62 D   44.75       3.7595E-03  67.36       156.6       219.5       156.6             V-C  1.6807E+04   326.8       67.15
1.000       1.000       223.8       0.000       0.000       41.54       41.54     Pa_244788_244789_L_0              0.0000
0.0000      0.0000      0.0000      0.0000      0.0000
```

63 D	42.04	2.7509E-03	69.76	141.0	222.0	141.0	V-C	1.6807E+04	326.6	69.26	
1.000	1.000	210.2	0.000	0.000	41.54	41.54	Pa_244788_244789_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
64 D	39.36	1.7507E-03	72.15	125.5	224.5	125.5	V-C	1.6807E+04	326.4	71.37	
1.000	1.000	196.8	0.000	0.000	41.54	41.54	Pa_244788_244789_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
65 D	35.34	7.5754E-04	74.55	103.2	227.0	113.5	UL-RL	5.0420E+04	326.2	73.47	
1.000	1.000	176.7	0.000	0.000	41.54	41.54	Pa_244788_244789_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
66 D	26.09	-2.2956E-04	76.94	54.86	229.5	114.7	UL-RL	5.0420E+04	326.0	75.58	
1.000	1.000	130.4	0.000	0.000	41.54	41.54	Pa_244788_244789_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
67 D	16.90	-1.2114E-03	79.33	6.835	232.0	116.0	UL-RL	5.0420E+04	325.8	77.68	
1.000	1.000	84.52	0.000	0.000	41.54	41.54	Pa_244788_244789_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
68 D	16.12	-2.1890E-03	81.73	0.8025	234.5	117.2	UL-RL	5.0420E+04	325.6	79.79	
1.000	1.000	80.59	0.000	0.000	41.54	41.54	Pa_244788_244789_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
69 D	16.38	-3.1630E-03	84.12	0.000	237.0	118.5	ACTIVE	0.000	325.4	81.90	
1.000	1.000	81.90	0.000	0.000	41.54	41.54	Pa_244788_244789_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
70 D	16.80	-4.1342E-03	86.52	0.000	239.5	119.7	ACTIVE	0.000	325.2	84.00	
1.000	1.000	84.00	0.000	0.000	41.54	41.54	Pa_244788_244789_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
71 D	17.22	-5.1038E-03	88.91	0.000	242.0	121.0	ACTIVE	0.000	325.0	86.11	
1.000	1.000	86.11	0.000	0.000	41.54	41.54	Pa_244788_244789_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
72 D	17.64	-6.0714E-03	91.30	0.000	244.5	122.2	ACTIVE	0.000	324.8	88.22	
1.000	1.000	88.22	0.000	0.000	41.54	41.54	Pa_244788_244789_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
73 D	18.06	-7.0381E-03	93.70	0.000	247.0	123.5	ACTIVE	0.000	324.6	90.32	
1.000	1.000	90.32	0.000	0.000	41.54	41.54	Pa_244788_244789_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
74 D	18.49	-8.0042E-03	96.09	0.000	249.5	124.7	ACTIVE	0.000	324.4	92.43	
1.000	1.000	92.43	0.000	0.000	41.54	41.54	Pa_244788_244789_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
75 D	18.91	-8.9700E-03	98.49	0.000	252.0	126.0	ACTIVE	0.000	324.2	94.53	
1.000	1.000	94.53	0.000	0.000	41.54	41.54	Pa_244788_244789_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
76 D	9.663	-9.9314E-03	100.9	0.000	254.5	127.2	ACTIVE	0.000	324.0	96.63	
1.000	1.000	96.63	0.000	0.000	41.54	41.54	Pa_244788_244789_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							

```
+------------------------------------------------------------------------------------------------------------------------+
|                   PARATIEPLUS(TM)   NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*            |
|                                                                                                                        |
|                                                    ParatiePlus                                                         |
|                                   Exe Time :28 January 2022   16:22:52                                                 |
+------------------------------------------------------------------------------------------------------------------------+
```

New Project

S T R E S S   R E S U L T S   F O R   G R O U P   N O.   3

Pali1500_253215 :
ELEMENT TYPE 2 NO.OF ELEMENTS. IN THIS GROUP 75
C U R R E N T   T I M E   I S   4.0000 SUBINCREMENT 00001/00001

WALL2D ELEMENT

EL	TA	TB	MA	MB
1	1.5838	-1.5838	1.10280E-09	0.31676
2	4.7514	-4.7514	-0.31676	1.2670
3	7.9190	-7.9190	-1.2670	2.8508
4	11.087	-11.087	-2.8508	5.0681
5	14.255	-14.255	-5.0681	7.9205
6	17.423	-17.423	-7.9205	11.405
7	20.591	-20.591	-11.405	15.523
8	23.860	-23.860	-15.523	20.295
9	27.472	-27.472	-20.295	25.790
10	31.500	-31.500	-25.790	32.090
11	35.943	-35.943	-32.090	39.278
12	40.803	-40.803	-39.278	47.439
13	46.080	-46.080	-47.439	56.660
14	51.773	-51.773	-56.660	67.014
15	57.881	-57.881	-67.014	78.590
16	64.405	-64.405	-78.590	91.471
17	71.345	-71.345	-91.471	105.74
18	78.701	-78.701	-105.74	121.48
19	86.473	-86.473	-121.48	138.78
20	94.661	-94.661	-138.78	157.71
21	105.54	-105.54	-157.71	178.83
22	116.98	-116.98	-178.83	202.22
23	128.98	-128.98	-202.22	228.02
24	141.55	-141.55	-228.02	256.33
25	154.68	-154.68	-256.33	287.26
26	168.37	-168.37	-287.26	320.94
27	182.63	-182.63	-320.94	357.46
28	197.45	-197.45	-357.46	396.95
29	212.83	-212.83	-396.95	439.54
30	228.74	-228.74	-439.54	485.29
31	237.24	-237.24	-485.29	532.74
32	244.60	-244.60	-532.74	581.66
33	250.82	-250.82	-581.66	631.82
34	256.32	-256.32	-631.82	683.09
35	261.51	-261.51	-683.09	735.39
36	266.39	-266.39	-735.39	788.66
37	270.94	-270.94	-788.66	842.88
38	275.18	-275.18	-842.88	897.92
39	279.09	-279.09	-897.92	953.73
40	282.67	-282.67	-953.73	1010.3
41	256.03	-256.03	-1010.3	1061.5
42	228.95	-228.95	-1061.5	1107.3
43	201.39	-201.39	-1107.3	1147.5
44	173.32	-173.32	-1147.5	1182.2
45	144.74	-144.74	-1182.2	1211.2
46	115.62	-115.62	-1211.2	1234.3
47	85.951	-85.951	-1234.3	1251.5
48	55.732	-55.732	-1251.5	1262.6
49	24.952	-24.952	-1262.6	1267.6
50	-6.3938	6.3938	-1267.6	1266.3
51	-38.310	38.310	-1266.3	1258.7
52	-70.801	70.801	-1258.7	1244.5
53	-103.87	103.87	-1244.5	1223.7
54	-137.52	137.52	-1223.7	1196.2
55	-171.75	171.75	-1196.2	1161.9
56	-206.57	206.57	-1161.9	1120.6
57	-241.97	241.97	-1120.6	1072.2
58	-277.08	277.08	-1072.2	1016.7
59	-308.66	308.66	-1016.7	955.01
60	-336.74	336.74	-955.01	887.67
61	-361.36	361.36	-887.67	815.39
62	-382.55	382.55	-815.39	738.85
63	-400.34	400.34	-738.85	658.78
64	-414.74	414.74	-658.78	575.83
65	-422.70	422.70	-575.83	491.29
66	-412.58	412.58	-491.29	408.77
67	-387.54	387.54	-408.77	331.27
68	-356.56	356.56	-331.27	259.95
69	-321.47	321.47	-259.95	195.66
70	-282.56	282.56	-195.66	139.12

71	-239.83	239.83	-139.12	91.155
72	-193.29	193.29	-91.155	52.497
73	-142.95	142.95	-52.497	23.907
74	-88.808	88.808	-23.907	6.1450
75	-30.864	30.864	-6.1450	1.60015E-11

```
+-------------------------------------------------------------------------------------------------------------------------+
|                   PARATIEPLUS(TM)   NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*              |
|                                                                                                                         |
|                                                ParatiePlus                                                              |
|                                 Exe Time :28 January 2022   16:22:52                                                    |
+-------------------------------------------------------------------------------------------------------------------------+


     F I N A L    I N C R E M E N T A L    A N A L Y S I S

                    S U M M A R Y

     STEP                                    NO. OF ITERATIONS

        1           CONVERGENCE :YES                        2
        2           CONVERGENCE :YES                        2
        3           CONVERGENCE :YES                        7
        4           CONVERGENCE :YES                        6


 END OF PROCESS FOR PROBLEM
New Project
NONLINEAR SOLUTION CPU TIME ....    0.05 [sec]
DATABASE  CREATION CPU TIME.....    0.17 [sec]
```

APPENDICE B

REPORT DI CALCOLO VERIFICHE STRUTTURALI

DATI GENERALI SEZIONE GENERICA NON DISSIPATIVA IN C.A.

NOME SEZIONE: D1500_OS06.Staffe_istruttoria

Descrizione Sezione:	
Metodo di calcolo resistenza:	Resistenze in campo sostanzialmente elastico
Tipologia sezione:	Sezione generica di Trave di fondazione in combinazione sismica
Normativa di riferimento:	N.T.C.
Percorso sollecitazione:	A Sforzo Norm. costante
Condizioni Ambientali:	Moderat. aggressive
Tipo di sollecitazione:	Retta (asse neutro sempre parallelo all'asse X)
Riferimento Sforzi assegnati:	Assi x,y principali d'inerzia
Riferimento alla sismicità:	Comb. non sismiche

CARATTERISTICHE DI RESISTENZA DEI MATERIALI IMPIEGATI

CALCESTRUZZO -	Classe:	C32/40	
	Resis. compr. di progetto fcd:	18.8	MPa
	Resis. compr. ridotta fcd':	9.4	MPa
	Def.unit. max resistenza ec2:	0.0020	
	Def.unit. ultima ecu:	0.0035	
	Diagramma tensione-deformaz.:	Parabola-Rettangolo	
	Modulo Elastico Normale Ec:	33642.8	MPa
	Resis. media a trazione fctm:	3.10	MPa
	Coeff. Omogen. S.L.E.:	15.00	
	Sc limite S.L.E. comb. Rare:	19.9	MPa
	Sc limite S.L.E. comb. Frequenti:	19.9	MPa
	Ap.Fessure limite S.L.E. comb. Frequenti:	0.300	mm
	Sc limite S.L.E. comb. Q.Permanenti:	14.9	MPa
	Ap.Fess.limite S.L.E. comb. Q.Perm.:	0.200	mm
ACCIAIO -	Tipo:	B450C	
	Resist. caratt. snervam. fyk:	450.0	MPa
	Resist. caratt. rottura ftk:	450.0	MPa
	Resist. snerv. di progetto fyd:	391.3	MPa
	Resist. ultima di progetto ftd:	391.3	MPa
	Deform. ultima di progetto Epu:	0.068	
	Modulo Elastico Ef	2000000	daN/cm²
	Diagramma tensione-deformaz.:	Bilineare finito	
	Coeff. Aderenza istantaneo ß1*ß2 :	1.00	
	Coeff. Aderenza differito ß1*ß2 :	0.50	
	Sf limite S.L.E. Comb. Rare:	360.00	MPa

CARATTERISTICHE DOMINIO CALCESTRUZZO

Forma del Dominio:	Circolare
Classe Calcestruzzo:	C32/40

Raggio circ.:	75.0 cm
X centro circ.:	0.0 cm
Y centro circ.:	0.0 cm

DATI BARRE ISOLATE

N°Barra	X [cm]	Y [cm]	DiamØ[mm]
1	0.0	58.5	26
2	14.0	56.8	26
3	27.2	51.8	26
4	38.8	43.8	26
5	48.1	33.2	26
6	54.7	20.7	26
7	58.1	7.1	26

8	58.1	-7.1	26
9	54.7	-20.7	26
10	48.1	-33.2	26
11	38.8	-43.8	26
12	27.2	-51.8	26
13	14.0	-56.8	26
14	0.0	-58.5	26
15	-14.0	-56.8	26
16	-27.2	-51.8	26
17	-38.8	-43.8	26
18	-48.1	-33.2	26
19	-54.7	-20.7	26
20	-58.1	-7.1	26
21	-58.1	7.1	26
22	-54.7	20.7	26
23	-48.1	33.2	26
24	-38.8	43.8	26
25	-27.2	51.8	26
26	-14.0	56.8	26

DATI GENERAZIONI CIRCOLARI DI BARRE

N°Gen.	Numero assegnato alla singola generazione circolare di barre
Xcentro	Ascissa [cm] del centro della circonf. lungo cui sono disposte le barre generate
Ycentro	Ordinata [cm] del centro della circonf. lungo cui sono disposte le barre genrate
Raggio	Raggio [cm] della circonferenza lungo cui sono disposte le barre generate
N°Barre	Numero di barre generate equidist. disposte lungo la circonferenza
Ø	Diametro [mm] della singola barra generata

N°Gen.	Xcentro	Ycentro	Raggio	N°Barre	Ø
1	0.0	0.0	63.1	26	26

ARMATURE A TAGLIO

Diametro staffe:	10	mm
Passo staffe:	7.7	cm
Staffe:		Una sola staffa chiusa perimetrale

CALCOLO DI RESISTENZA - SFORZI PER OGNI COMBINAZIONE ASSEGNATA

N	Sforzo normale [kN] applicato nel Baric. (+ se di compressione)
Mx	Momento flettente [daNm] intorno all'asse X di riferimento delle coordinate con verso positivo se tale da comprimere il lembo sup. della sez.
Vy	Componente del Taglio [kN] parallela all'asse Y di riferimento delle coordinate

N°Comb.	N	Mx	Vy
1	0.00	1015.00	305.00
2	0.00	2035.00	571.00

COMB. RARE (S.L.E.) - SFORZI PER OGNI COMBINAZIONE ASSEGNATA

N	Sforzo normale [kN] applicato nel Baricentro (+ se di compressione)
Mx	Momento flettente [kNm] intorno all'asse X di riferimento (tra parentesi Mom.Fessurazione) con verso positivo se tale da comprimere il lembo superiore della sezione

N°Comb.	N	Mx	My
1	0.00	781.00	0.00

COMB. FREQUENTI (S.L.E.) - SFORZI PER OGNI COMBINAZIONE ASSEGNATA

N	Sforzo normale [kN] applicato nel Baricentro (+ se di compressione)
Mx	Momento flettente [kNm] intorno all'asse X di riferimento (tra parentesi Mom.Fessurazione) con verso positivo se tale da comprimere il lembo superiore della sezione

N°Comb.	N	Mx	My
1	0.00	781.00 (1343.96)	0.00 (0.00)

COMB. QUASI PERMANENTI (S.L.E.) - SFORZI PER OGNI COMBINAZIONE ASSEGNATA

N	Sforzo normale [kN] applicato nel Baricentro (+ se di compressione)
Mx	Momento flettente [kNm] intorno all'asse X di riferimento (tra parentesi Mom.Fessurazione) con verso positivo se tale da comprimere il lembo superiore della sezione

N°Comb.	N	Mx	My
1	0.00	781.00 (1343.96)	0.00 (0.00)

RISULTATI DEL CALCOLO

Sezione verificata per tutte le combinazioni assegnate

Copriferro netto minimo barre longitudinali:	10.6	cm
Interferro netto minimo barre longitudinali:	2.0	cm
Copriferro netto minimo staffe:	9.6	cm

VERIFICHE DI RESISTENZA IN PRESSO-TENSO FLESSIONE ALLO STATO LIMITE SOSTANZIALMENTE ELASTICO

Ver	S = combinazione verificata / N = combin. non verificata
N	Sforzo normale assegnato [kN] nel baricentro B sezione cls.(positivo se di compressione)
Mx	Componente del momento assegnato [kNm] riferito all'asse x princ. d'inerzia
N Res	Sforzo normale resistente [kN] nel baricentro B sezione cls.(positivo se di compress.)
Mx Res	Momento flettente resistente [kNm] riferito all'asse x princ. d'inerzia
Mis.Sic.	Misura sicurezza = rapporto vettoriale tra (N r,Mx Res,My Res) e (N,Mx,My) Verifica positiva se tale rapporto risulta >=1.000
As Tesa	Area armature trave [cm²] in zona tesa. [Tra parentesi l'area minima ex § 7.2.6 NTC

N°Comb	Ver	N	Mx	N Res	Mx Res	Mis.Sic.	As Tesa
1	S	0.00	1015.00	0.00	3986.68	3.93	138.0(35.3)
2	S	0.00	2035.00	0.00	3986.68	1.96	138.0(35.3)

METODO AGLI STATI LIMITE IN CAMPO SOSTANZIALMENTE ELASTICO - DEFORMAZIONI UNITARIE ALLO STATO LIMITE

ec max	Deform. unit. massima del calcestruzzo a compressione
x/d	Rapporto di duttilità [§ 4.1.2.1.2.1 NTC] deve essere < 0.45
Xc max	Ascissa in cm della fibra corrisp. a ec max (sistema rif. X,Y,O sez.)
Yc max	Ordinata in cm della fibra corrisp. a ec max (sistema rif. X,Y,O sez.)
es min	Deform. unit. minima nell'acciaio (negativa se di trazione)
Xs min	Ascissa in cm della barra corrisp. a es min (sistema rif. X,Y,O sez.)
Ys min	Ordinata in cm della barra corrisp. a es min (sistema rif. X,Y,O sez.)
es max	Deform. unit. massima nell'acciaio (positiva se di compress.)
Xs max	Ascissa in cm della barra corrisp. a es max (sistema rif. X,Y,O sez.)
Ys max	Ordinata in cm della barra corrisp. a es max (sistema rif. X,Y,O sez.)

N°Comb	ec max	x/d	Xc max	Yc max	es min	Xs min	Ys min	es max	Xs max	Ys max
1	0.00103	0.344	0.0	75.0	0.00077	0.0	63.1	-0.00196	0.0	-63.1
2	0.00103	0.344	0.0	75.0	0.00077	0.0	63.1	-0.00196	0.0	-63.1

POSIZIONE ASSE NEUTRO PER OGNI COMB. DI RESISTENZA

a, b, c	Coeff. a, b, c nell'eq. dell'asse neutro aX+bY+c=0 nel rif. X,Y,O gen.
x/d	Rapp. di duttilità (travi e solette)[§ 4.1.2.1.2.1 NTC]: deve essere < 0.45
C.Rid.	Coeff. di riduz. momenti per sola flessione in travi continue

N°Comb	a	b	c	x/d	C.Rid.
1	0.000000000	0.000021612	-0.000592772	0.344	0.871
2	0.000000000	0.000021612	-0.000592772	0.344	0.871

VERIFICHE A TAGLIO

Diam. Staffe: 10 mm
Passo staffe: 7.7 cm [Passo massimo di normativa = 33.0 cm]

Ver	S = comb. verificata a taglio / N = comb. non verificata
Ved	Taglio di progetto [kN] = Vy ortogonale all'asse neutro
Vcd	Taglio compressione resistente [kN] lato calcestruzzo [formula (4.1.28)NTC]
Vwd	Taglio resistente [kN] assorbito dalle staffe [(4.1.18) NTC]
Dmed	Altezza utile media pesata [cm] valutata lungo strisce ortog. all'asse neutro. La resistenza delle travi è calcolata assumendo il valore di 0.9 Dmed come coppia interna. I pesi della media sono le lunghezze delle strisce.(Sono esluse le strisce totalmente non compresse).
bw	Larghezza media resistente a taglio [cm] misurate parallel. all'asse neutro E' data dal rapporto tra l'area delle sopradette strisce resistenti e Dmed.
Ctg	Cotangente dell'angolo di inclinazione dei puntoni di calcestruzzo
Acw	Coefficiente maggiorativo della resistenza a taglio per compressione
Ast	Area staffe+legature strettam. necessarie a taglio per metro di pil.[cm²/m]
A.Eff	Area staffe+legature efficaci nella direzione del taglio di combinaz.[cm²/m] Tra parentesi è indicata la quota dell'area relativa alle sole legature. L'area della legatura è ridotta col fattore L/d_max con L=lungh.legat.proietta- ta sulla direz. del taglio e d_max= massima altezza utile nella direz.del taglio.

N°Comb	Ver	Ved	Vcd	Vwd	Dmed	bw	Ctg	Acw	Ast	A.Eff
1	S	305.00	4584.51	2105.61	117.2	134.0	2.500	1.000	3.0	20.4(0.0)
2	S	571.00	4584.51	2105.61	117.2	134.0	2.500	1.000	5.5	20.4(0.0)

COMBINAZIONI RARE IN ESERCIZIO - MASSIME TENSIONI NORMALI ED APERTURA FESSURE (NTC/EC2)

Ver	S = comb. verificata/ N = comb. non verificata
Sc max	Massima tensione (positiva se di compressione) nel calcestruzzo [MPa]
Xc max, Yc max	Ascissa, Ordinata [cm] del punto corrisp. a Sc max (sistema rif. X,Y,O)
Ss min	Minima tensione (negativa se di trazione) nell'acciaio [MPa]
Xs min, Ys min	Ascissa, Ordinata [cm] della barra corrisp. a Ss min (sistema rif. X,Y,O)
Ac eff.	Area di calcestruzzo [cm²] in zona tesa considerata aderente alle barre
As eff.	Area barre [cm²] in zona tesa considerate efficaci per l'apertura delle fessure

N°Comb	Ver	Sc max	Xc max	Yc max	Ss min	Xs min	Ys min	Ac eff.	As eff.
1	S	2.90	0.0	180.0	-77.6	0.0	-63.1	2934	74.3

COMBINAZIONI RARE IN ESERCIZIO - APERTURA FESSURE [§ 7.3.4 EC2]

	La sezione viene assunta sempre fessurata anche nel caso in cui la trazione minima del calcestruzzo sia inferiore a fctm
Ver.	Esito della verifica
e1	Massima deformazione di trazione del calcestruzzo, valutata in sezione fessurata
e2	Minima deformazione di trazione del cls. (in sezione fessurata), valutata nella fibra più interna dell'area Ac eff
k1	= 0.8 per barre ad aderenza migliorata [eq.(7.11)EC2]
kt	= 0.4 per comb. quasi permanenti / = 0.6 per comb.frequenti [cfr. eq.(7.9)EC2]
k2	= (e1 + e2)/(2*e1) [eq.(7.13)EC2]
k3	= 3.400 Coeff. in eq.(7.11) come da annessi nazionali
k4	= 0.425 Coeff. in eq.(7.11) come da annessi nazionali
Ø	Diametro [mm] equivalente delle barre tese comprese nell'area efficace Ac eff [eq.(7.11)EC2]
Cf	Copriferro [mm] netto calcolato con riferimento alla barra più tesa
e sm - e cm	Differenza tra le deformazioni medie di acciaio e calcestruzzo [(7.8)EC2 e (C4.1.7)NTC] Tra parentesi: valore minimo = 0.6 Smax / Es [(7.9)EC2 e (C4.1.8)NTC]
sr max	Massima distanza tra le fessure [mm]
wk	Apertura fessure in mm calcolata = sr max*(e_sm - e_cm) [(7.8)EC2 e (C4.1.7)NTC]. Valore limite tra parentesi
Mx fess.	Componente momento di prima fessurazione intorno all'asse X [kNm]

My fess. Componente momento di prima fessurazione intorno all'asse Y [kNm]

Comb.	Ver	e1	e2	k2	Ø	Cf	e sm - e cm	sr max	wk	Mx fess	My fess
1	S	-0.00044	0.00000	0.834	26.0	106	0.00023 (0.00023)	652	0.152 (990.00)	1343.96	0.00

COMBINAZIONI FREQUENTI IN ESERCIZIO - MASSIME TENSIONI NORMALI ED APERTURA FESSURE (NTC/EC2)

N°Comb	Ver	Sc max	Xc max	Yc max	Ss min	Xs min	Ys min	Ac eff.	As eff.
1	S	2.90	0.0	180.0	-77.6	0.0	-63.1	2934	74.3

COMBINAZIONI FREQUENTI IN ESERCIZIO - APERTURA FESSURE [§ 7.3.4 EC2]

Comb.	Ver	e1	e2	k2	Ø	Cf	e sm - e cm	sr max	wk	Mx fess	My fess
1	S	-0.00044	0.00000	0.834	26.0	106	0.00023 (0.00023)	652	0.152 (0.30)	1343.96	0.00

COMBINAZIONI QUASI PERMANENTI IN ESERCIZIO - MASSIME TENSIONI NORMALI ED APERTURA FESSURE (NTC/EC2)

N°Comb	Ver	Sc max	Xc max	Yc max	Ss min	Xs min	Ys min	Ac eff.	As eff.
1	S	2.90	0.0	180.0	-77.6	0.0	-63.1	2934	74.3

COMBINAZIONI QUASI PERMANENTI IN ESERCIZIO - APERTURA FESSURE [§ 7.3.4 EC2]

Comb.	Ver	e1	e2	k2	Ø	Cf	e sm - e cm	sr max	wk	Mx fess	My fess
1	S	-0.00044	0.00000	0.834	26.0	106	0.00023 (0.00023)	652	0.152 (0.20)	1343.96	0.00

DATI GENERALI SEZIONE GENERICA NON DISSIPATIVA IN C.A.

NOME SEZIONE: Cordolo_OS06_istruttoria

Descrizione Sezione:	
Metodo di calcolo resistenza:	Resistenze in campo sostanzialmente elastico
Tipologia sezione:	Sezione generica di Trave di fondazione in combinazione sismica
Normativa di riferimento:	N.T.C.
Percorso sollecitazione:	A rapporto M/N costante
Condizioni Ambientali:	Moderat. aggressive
Riferimento Sforzi assegnati:	Assi x,y principali d'inerzia
Riferimento alla sismicità:	Comb. non sismiche

CARATTERISTICHE DI RESISTENZA DEI MATERIALI IMPIEGATI

CALCESTRUZZO -	Classe:	C32/40	
	Resis. compr. di progetto fcd:	18.1	MPa
	Resis. compr. ridotta fcd':	9.1	MPa
	Def.unit. max resistenza ec2:	0.0020	
	Def.unit. ultima ecu:	0.0035	
	Diagramma tensione-deformaz.:	Parabola-Rettangolo	
	Modulo Elastico Normale Ec:	33334.5	MPa
	Resis. media a trazione fctm:	3.00	MPa
	Coeff. Omogen. S.L.E.:	15.00	
	Sc limite S.L.E. comb. Rare:	19.2	MPa
	Sc limite S.L.E. comb. Frequenti:	19.2	MPa
	Ap.Fessure limite S.L.E. comb. Frequenti:	0.300	mm
	Sc limite S.L.E. comb. Q.Permanenti:	14.4	MPa
	Ap.Fess.limite S.L.E. comb. Q.Perm.:	0.200	mm
ACCIAIO -	Tipo:	B450C	
	Resist. caratt. snervam. fyk:	450.0	MPa
	Resist. caratt. rottura ftk:	450.0	MPa
	Resist. snerv. di progetto fyd:	391.3	MPa
	Resist. ultima di progetto ftd:	391.3	MPa
	Deform. ultima di progetto Epu:	0.068	
	Modulo Elastico Ef	2000000	daN/cm²
	Diagramma tensione-deformaz.:	Bilineare finito	
	Coeff. Aderenza istantaneo ß1*ß2 :	1.00	
	Coeff. Aderenza differito ß1*ß2 :	0.50	
	Sf limite S.L.E. Comb. Rare:	360.00	MPa

CARATTERISTICHE DOMINIO CALCESTRUZZO

Forma del Dominio:	Poligonale
Classe Calcestruzzo:	C32/40

N°vertice:	X [cm]	Y [cm]
1	-95.0	0.0
2	-95.0	120.0
3	95.0	120.0
4	95.0	0.0

DATI BARRE ISOLATE

N°Barra	X [cm]	Y [cm]	DiamØ[mm]
1	-87.0	8.0	26
2	-87.0	112.0	26
3	87.0	8.0	26
4	87.0	112.0	26

DATI GENERAZIONI LINEARI DI BARRE

N°Gen.	Numero assegnato alla singola generazione lineare di barre
N°Barra Ini.	Numero della barra iniziale cui si riferisce la generazione
N°Barra Fin.	Numero della barra finale cui si riferisce la generazione
N°Barre	Numero di barre generate equidistanti cui si riferisce la generazione
Ø	Diametro in mm delle barre della generazione

N°Gen.	N°Barra Ini.	N°Barra Fin.	N°Barre	Ø
1	1	2	4	26
2	3	4	4	26
3	1	3	8	26
4	2	4	8	26

ARMATURE A TAGLIO

Diametro staffe:	8	mm
Passo staffe:	5.5	cm
Staffe:		Una sola staffa chiusa perimetrale

CALCOLO DI RESISTENZA - SFORZI PER OGNI COMBINAZIONE ASSEGNATA

N	Sforzo normale [kN] applicato nel Baric. (+ se di compressione)
Mx	Momento flettente [kNm] intorno all'asse x princ. d'inerzia con verso positivo se tale da comprimere il lembo sup. della sez.
My	Momento flettente [kNm] intorno all'asse y princ. d'inerzia con verso positivo se tale da comprimere il lembo destro della sez.
Vy	Componente del Taglio [kN] parallela all'asse princ.d'inerzia y
Vx	Componente del Taglio [kN] parallela all'asse princ.d'inerzia x

N°Comb.	N	Mx	My	Vy	Vx
1	0.00	0.00	326.00	0.00	444.00

COMB. RARE (S.L.E.) - SFORZI PER OGNI COMBINAZIONE ASSEGNATA

N	Sforzo normale [kN] applicato nel Baricentro (+ se di compressione)
Mx	Momento flettente [kNm] intorno all'asse x princ. d'inerzia (tra parentesi Mom.Fessurazione) con verso positivo se tale da comprimere il lembo superiore della sezione
My	Momento flettente [kNm] intorno all'asse y princ. d'inerzia (tra parentesi Mom.Fessurazione) con verso positivo se tale da comprimere il lembo destro della sezione

N°Comb.	N	Mx	My
1	0.00	0.00	172.00

COMB. FREQUENTI (S.L.E.) - SFORZI PER OGNI COMBINAZIONE ASSEGNATA

N	Sforzo normale [kN] applicato nel Baricentro (+ se di compressione)
Mx	Momento flettente [kNm] intorno all'asse x princ. d'inerzia (tra parentesi Mom.Fessurazione) con verso positivo se tale da comprimere il lembo superiore della sezione
My	Momento flettente [kNm] intorno all'asse y princ. d'inerzia (tra parentesi Mom.Fessurazione) con verso positivo se tale da comprimere il lembo destro della sezione

N°Comb.	N	Mx	My
1	0.00	0.00 (0.00)	172.00 (2473.39)

COMB. QUASI PERMANENTI (S.L.E.) - SFORZI PER OGNI COMBINAZIONE ASSEGNATA

N	Sforzo normale [kN] applicato nel Baricentro (+ se di compressione)
Mx	Momento flettente [kNm] intorno all'asse x princ. d'inerzia (tra parentesi Mom.Fessurazione) con verso positivo se tale da comprimere il lembo superiore della sezione
My	Momento flettente [kNm] intorno all'asse y princ. d'inerzia (tra parentesi Mom.Fessurazione) con verso positivo se tale da comprimere il lembo destro della sezione

N°Comb.	N	Mx	My
1	0.00	0.00 (0.00)	172.00 (2473.39)

RISULTATI DEL CALCOLO

Sezione verificata per tutte le combinazioni assegnate

Copriferro netto minimo barre longitudinali:	6.7	cm
Interferro netto minimo barre longitudinali:	16.7	cm
Copriferro netto minimo staffe:	5.9	cm

VERIFICHE DI RESISTENZA IN PRESSO-TENSO FLESSIONE ALLO STATO LIMITE SOSTANZIALMENTE ELASTICO

Ver	S = combinazione verificata / N = combin. non verificata
N	Sforzo normale assegnato [kN] nel baricentro B sezione cls.(positivo se di compressione)
Mx	Componente del momento assegnato [kNm] riferito all'asse x princ. d'inerzia
My	Componente del momento assegnato [kNm] riferito all'asse y princ. d'inerzia
N Res	Sforzo normale resistente [kN] nel baricentro B sezione cls.(positivo se di compress.)
Mx Res	Momento flettente resistente [kNm] riferito all'asse x princ. d'inerzia
My Res	Momento flettente resistente [kNm] riferito all'asse y princ. d'inerzia
Mis.Sic.	Misura sicurezza = rapporto vettoriale tra (N r,Mx Res,My Res) e (N,Mx,My) Verifica positiva se tale rapporto risulta >=1.000
As Tesa	Area armature trave [cm²] in zona tesa. [Tra parentesi l'area minima ex § 7.2.6 NTC

N°Comb	Ver	N	Mx	My	N Res	Mx Res	My Res	Mis.Sic.	As Tesa
1	S	0.00	0.00	326.00	0.00	0.00	3611.75	11.08	84.9(45.6)

METODO AGLI STATI LIMITE IN CAMPO SOSTANZIALMENTE ELASTICO - DEFORMAZIONI UNITARIE ALLO STATO LIMITE

ec max	Deform. unit. massima del calcestruzzo a compressione
x/d	Rapporto di duttilità [§ 4.1.2.1.2.1 NTC] deve essere < 0.45
Xc max	Ascissa in cm della fibra corrisp. a ec max (sistema rif. X,Y,O sez.)
Yc max	Ordinata in cm della fibra corrisp. a ec max (sistema rif. X,Y,O sez.)
es min	Deform. unit. minima nell'acciaio (negativa se di trazione)
Xs min	Ascissa in cm della barra corrisp. a es min (sistema rif. X,Y,O sez.)
Ys min	Ordinata in cm della barra corrisp. a es min (sistema rif. X,Y,O sez.)
es max	Deform. unit. massima nell'acciaio (positiva se di compress.)
Xs max	Ascissa in cm della barra corrisp. a es max (sistema rif. X,Y,O sez.)
Ys max	Ordinata in cm della barra corrisp. a es max (sistema rif. X,Y,O sez.)

N°Comb	ec max	x/d	Xc max	Yc max	es min	Xs min	Ys min	es max	Xs max	Ys max
1	0.00056	0.223	95.0	120.0	0.00045	87.0	112.0	-0.00196	-87.0	8.0

POSIZIONE ASSE NEUTRO PER OGNI COMB. DI RESISTENZA

a, b, c	Coeff. a, b, c nell'eq. dell'asse neutro aX+bY+c=0 nel rif. X,Y,O gen.
x/d	Rapp. di duttilità (travi e solette)[§ 4.1.2.1.2.1 NTC]: deve essere < 0.45
C.Rid.	Coeff. di riduz. momenti per sola flessione in travi continue

N°Comb	a	b	c	x/d	C.Rid.
1	0.000013832	0.000000000	-0.000753144	0.223	0.718

VERIFICHE A TAGLIO

Diam. Staffe:	8 mm
Passo staffe:	5.5 cm [Passo massimo di normativa = 33.0 cm]

Ver	S = comb. verificata a taglio / N = comb. non verificata
Ved	Taglio di progetto [kN] = proiez. di Vx e Vy sulla normale all'asse neutro
Vcd	Taglio compressione resistente [kN] lato calcestruzzo [formula (4.1.28)NTC]
Vwd	Taglio resistente [kN] assorbito dalle staffe [(4.1.18) NTC]
Dmed	Altezza utile media pesata [cm] valutata lungo strisce ortog. all'asse neutro. La resistenza delle travi è calcolata assumendo il valore di 0.9 Dmed come coppia interna. I pesi della media sono le lunghezze delle strisce.(Sono esluse le strisce totalmente non compresse).
bw	Larghezza media resistente a taglio [cm] misurate parallel. all'asse neutro E' data dal rapporto tra l'area delle sopradette strisce resistenti e Dmed.
Ctg	Cotangente dell'angolo di inclinazione dei puntoni di calcestruzzo
Acw	Coefficiente maggiorativo della resistenza a taglio per compressione
Ast	Area staffe+legature strettam. necessarie a taglio per metro di pil.[cm²/m]
A.Eff	Area staffe+legature efficaci nella direzione del taglio di combinaz.[cm²/m] Tra parentesi è indicata la quota dell'area relativa alle sole legature. L'area della legatura è ridotta col fattore L/d_max con L=lungh.legat.proietta- ta sulla direz. del taglio e d_max= massima altezza utile nella direz.del taglio.

N°Comb	Ver	Ved	Vcd	Vwd	Dmed	bw	Ctg	Acw	Ast	A.Eff
1	S	444.00	6235.14	2977.15	185.0	120.0	2.500	1.000	2.7	18.3(0.0)

COMBINAZIONI RARE IN ESERCIZIO - MASSIME TENSIONI NORMALI ED APERTURA FESSURE (NTC/EC2)

Ver	S = comb. verificata/ N = comb. non verificata
Sc max	Massima tensione (positiva se di compressione) nel calcestruzzo [MPa]
Xc max, Yc max	Ascissa, Ordinata [cm] del punto corrisp. a Sc max (sistema rif. X,Y,O)
Ss min	Minima tensione (negativa se di trazione) nell'acciaio [MPa]
Xs min, Ys min	Ascissa, Ordinata [cm] della barra corrisp. a Ss min (sistema rif. X,Y,O)
Ac eff.	Area di calcestruzzo [cm²] in zona tesa considerata aderente alle barre
As eff.	Area barre [cm²] in zona tesa considerate efficaci per l'apertura delle fessure

N°Comb	Ver	Sc max	Xc max	Yc max	Ss min	Xs min	Ys min	Ac eff.	As eff.
1	S	0.40	95.0	0.0	-18.8	-87.0	112.0	4233	53.1

COMBINAZIONI RARE IN ESERCIZIO - APERTURA FESSURE [§ 7.3.4 EC2]

	La sezione viene assunta sempre fessurata anche nel caso in cui la trazione minima del calcestruzzo sia inferiore a fctm
Ver.	Esito della verifica
e1	Massima deformazione di trazione del calcestruzzo, valutata in sezione fessurata
e2	Minima deformazione di trazione del cls. (in sezione fessurata), valutata nella fibra più interna dell'area Ac eff
k1	= 0.8 per barre ad aderenza migliorata [eq.(7.11)EC2]
kt	= 0.4 per comb. quasi permanenti / = 0.6 per comb.frequenti [cfr. eq.(7.9)EC2]
k2	= (e1 + e2)/(2*e1) [eq.(7.13)EC2]
k3	= 3.400 Coeff. in eq.(7.11) come da annessi nazionali
k4	= 0.425 Coeff. in eq.(7.11) come da annessi nazionali
Ø	Diametro [mm] equivalente delle barre tese comprese nell'area efficace Ac eff [eq.(7.11)EC2]
Cf	Copriferro [mm] netto calcolato con riferimento alla barra più tesa
e sm - e cm	Differenza tra le deformazioni medie di acciaio e calcestruzzo [(7.8)EC2 e (C4.1.7)NTC] Tra parentesi: valore minimo = 0.6 Smax / Es [(7.9)EC2 e (C4.1.8)NTC]
sr max	Massima distanza tra le fessure [mm]
wk	Apertura fessure in mm calcolata = sr max*(e_sm - e_cm) [(7.8)EC2 e (C4.1.7)NTC]. Valore limite tra parentesi
Mx fess.	Componente momento di prima fessurazione intorno all'asse X [kNm]
My fess.	Componente momento di prima fessurazione intorno all'asse Y [kNm]

Comb.	Ver	e1	e2	k2	Ø	Cf	e sm - e cm	sr max	wk	Mx fess	My fess
1	S	-0.00010	0.00000	0.833	26.0	67	0.00006 (0.00006)	815	0.046 (990.00)	0.00	2473.39

COMBINAZIONI FREQUENTI IN ESERCIZIO - MASSIME TENSIONI NORMALI ED APERTURA FESSURE (NTC/EC2)

N°Comb	Ver	Sc max	Xc max	Yc max	Ss min	Xs min	Ys min	Ac eff.	As eff.
1	S	0.40	95.0	0.0	-18.8	-87.0	112.0	4233	53.1

COMBINAZIONI FREQUENTI IN ESERCIZIO - APERTURA FESSURE [§ 7.3.4 EC2]

Comb.	Ver	e1	e2	k2	Ø	Cf	e sm - e cm	sr max	wk	Mx fess	My fess
1	S	-0.00010	0.00000	0.833	26.0	67	0.00006 (0.00006)	815	0.046 (0.30)	0.00	2473.39

COMBINAZIONI QUASI PERMANENTI IN ESERCIZIO - MASSIME TENSIONI NORMALI ED APERTURA FESSURE (NTC/EC2)

N°Comb	Ver	Sc max	Xc max	Yc max	Ss min	Xs min	Ys min	Ac eff.	As eff.
1	S	0.40	95.0	0.0	-18.8	-87.0	112.0	4233	53.1

COMBINAZIONI QUASI PERMANENTI IN ESERCIZIO - APERTURA FESSURE [§ 7.3.4 EC2]

Comb.	Ver	e1	e2	k2	Ø	Cf	e sm - e cm	sr max	wk	Mx fess	My fess
1	S	-0.00010	0.00000	0.833	26.0	67	0.00006 (0.00006)	815	0.046 (0.20)	0.00	2473.39