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PROGETTO ESECUTIVO

ITINERARIO NAPOLI - BARI RADDOPPIO TRATTA APICE - ORSARA I LOTTO FUNZIONALE APICE - HIRPINIA

GN10 - GALLERIA ROCCHETTA - USCITA DI EMERGENZA PEDONALE F7 pk 15+700

IMBOCCO

ELABORATI GENERALI

Relazione geotecnica e di calcolo delle opere di imbocco

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Consorzio HIRPINIA AV Il Direttore Tecnico Ing. Vincenzo Moriello 10/06/2020	Il Responsabile integrazione fra le varie prestazioni specialistiche Ing. G. Cassani	 Ing. G. Cassani

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IF28 01 E ZZ RB GA1300 001 B -

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								10/06/2020

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1 PREMESSA

Il presente documento è parte integrante del progetto definitivo della galleria Rocchetta, inclusa nel raddoppio ferroviario della tratta compresa tra Apice ed Orsara, sulla linea Caserta – Foggia, itinerario Napoli – Bari.

La galleria Rocchetta risulta ubicata fra le progressive km 10+075.00 (inizio imbocco lato Bari) e km 16+622.50 (imbocco lato Napoli) per una lunghezza totale di 6547.50 m, con una lunghezza coperta pari a 6518.10. Il tratto in naturale è compreso fra le progressive km 10+110.00 e km 16+565.00 ed è caratterizzato da una lunghezza di 6455.00 m.

In particolare è oggetto della relazione la descrizione e verifica delle opere civili e delle modalità di esecuzione dell'imbocco dell'uscita di emergenza pedonale F7 che si innesta sulla galleria di linea alla pk 15+700 e si sviluppa per una lunghezza pari a 632m circa.

Le opere di stabilizzazione e sostegno degli scavi sono realizzate mediante paratie in palicontrastate attraverso tiranti.

Nel seguito sono illustrate le soluzioni progettuali e le verifiche di dimensionamento delle opere di sostegno provvisorie.

2 SCOPO E CONTENUTI DEL DOCUMENTO

Nella presente relazione si affrontano le problematiche progettuali connesse alla realizzazione delle opere di imbocco dell'uscita di emergenza pedonale F7 della galleria Rocchetta facente parte della linea ferroviaria Napoli-Bari

3 NORMATIVA DI RIFERIMENTO

3.1 LEGGI E NORMATIVE COGENTI

Rif. [1] C.S.LL.PP., Circolare n°617 del 02/02/2009, "Istruzioni per l'applicazione delle "nuove norme tecniche per le costruzioni" di cui al DM 14/01/2008".

3.2 NORMATIVE NON COGENTI E RACCOMANDAZIONI

Rif. [2] UNI EN 14487-1:2006, "Calcestruzzo proiettato – parte 1: definizioni, specificazioni e conformità";

Rif. [3] UNI EN 14487-2:2006, "Calcestruzzo proiettato – parte 2: esecuzione";

Rif. [4] UNI EN 206-1 2006, "Calcestruzzo – parte 1: specificazione, prestazione, produzione e conformità".

3.3 PRESCRIZIONI E SPECIFICHE TECNICHE (RFI, ITF)

Rif. [5] RFI, doc S.OC.S.3870 "Sagome. Profili minimi degli ostacoli" datato Lug 1990;

Rif. [6] RFI, doc RFIDINICMAGAGN00001B "Manuale Progettazione Gallerie" datato Dic 2003;

Rif. [7] RFI, "Manuale di progettazione delle opere civili" codifica RFIDTCSIPSMAIFS001C, datato 21.12.2018;

Rif. [8] ITALFERR, Specifica Tecnica PPA.0002403 "Linee guida per la progettazione geotecnica delle gallerie naturali" datato Dicembre 2015.

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Rif. [9] RFI, "Capitolato generale tecnico di appalto delle opere civili" codifica RFIDTCSISPIFS001C, datato 21.12.2018;

4 DOCUMENTI DI RIFERIMENTO

4.1 DOCUMENTI REFERENZIATI

Sono stati utilizzati come input per il presente documento i seguenti elaborati:

Rif. [9] U.O. Geologia, elaborati di progetto;

Rif. [10] U. O. Geologia, documento n° IF2801EZZRGGE0102001B, " Relazione geomorfologica generale" ;

Rif. [11] U. O. Geotecnica, documento n° IF2801EZZRBOC0201001B, " Relazione di caratterizzazione geotecnica/ geomeccanica del Flysch Rosso interagente con le gallerie Grottaminarda e Melito ";

Rif. [12] U. O. Geotecnica, documento n° IF2801EZZRBOC0101001B, " Relazione geotecnica generale ";

Rif. [13] U. O. Geotecnica, documento n° IF2801EZZRBOC0201001B, "Relazione di caratterizzazione geotecnica / geomeccanica generale ";

4.2 DOCUMENTI CORRELATI

Non sono presenti documenti correlati.

4.3 DOCUMENTI SUPERATI

Non sono presenti documenti superati.

5 ALLEGATI

Il documento è corredato dai seguenti allegati:

- [Risultati delle analisi di stabilità globale – Allegato 0]
- [Risultati delle analisi di verifica delle paratie. Sez. 1 – Allegato 1 - STR];
- [Risultati delle analisi di verifica delle paratie. Sez. 1 – Allegato 2 - GEO];
- [Risultati delle analisi di verifica delle paratie. Sez. 2 – Allegato 3 - STR];
- [Risultati delle analisi di verifica delle paratie. Sez. 2 – Allegato 4 - GEO].

6 DOCUMENTI PRODOTTI A SUPPORTO

I contenuti della presente relazione sono utilmente completati e arricchiti dai seguenti elaborati di progetto:

Rif. [14] U.O. Gallerie, documento n.° IF2801EZZLAGA1300001B "Planimetria";

Rif [15] U.O. Gallerie, documento n° IF2801EZZFAGA1300001B "Profilo longitudinale";

Rif [16] U.O. Gallerie, documento n° IF2801EZZPAGA1300001B "Sviluppata paratia e planimetria di tracciamento paratia" ;

Rif [17] UO Gallerie, documento n IF2801EZZWAGA1300001B "Sezioni trasversali";

Rif [18] UO Gallerie, documento n° IF2801EZZWAGA1300002B "Sezioni tipo e particolari";

Rif [19] UO Gallerie, documento n° IF2801EZZF6GN1000001B "Profilo geotecnico/geomeccanico – Finestra F7";

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7 FASE CONOSCITIVA

Nella fase conoscitiva si acquisiscono gli elementi necessari alla caratterizzazione e modellazione geologica del sito e alla caratterizzazione e modellazione geotecnica del volume significativo del mezzo interessato dall'opera. Nel seguito si riporta un breve inquadramento geologico e la sintesi della caratterizzazione e modellazione geotecnica con specifico riferimento al volume significativo interessato dalle opere di imbocco della finestra pedonale F7 della galleria Rocchetta.

7.1 INQUADRAMENTO GEOLOGICO

Lo studio geologico ha individuato in corrispondenza dell'imbocco dell'uscita di emergenza F7 le seguenti unità geologiche:

- ✓ Formazione della Baronìa – BNA3 Membro di Apollosa (Pliocene inf.) rappresentato da un'alternanza di arenarie poco cementate litiche e di sabbie quarzoso-feldspatiche. Si incontrano interstrati di marne, siltiti e argille

La finestra d'emergenza F7 si sviluppa parallela al tracciato della galleria di base ed attraversa un settore di versante caratterizzato da medie pendenze. L'imbocco si imposta su un settore più pianeggiante che degrada debolmente verso il fondovalle.

Planimetricamente, da pk 0+465 all'imbocco, è presente un colamento che in parte risulta stabilizzato ed in parte attivo. In particolare, il colamento attivo coinvolge il settore dell'imbocco e la stima delle coltri mobilitate, basata su elementi osservazionali di superficie, è di 2 – 3 m. Il dissesto è stato perimetrato sulla base di evidenze morfologiche, come ad esempio variazioni di pendenza, dossi, in parte rimodellate dall'attività agricola, e confermate dall'analisi del Lidar. Il diverso grado di attività del colamento è stato definito sulla base della maturità e del rimodellamento delle forme, in particolare delle scarpate minori.

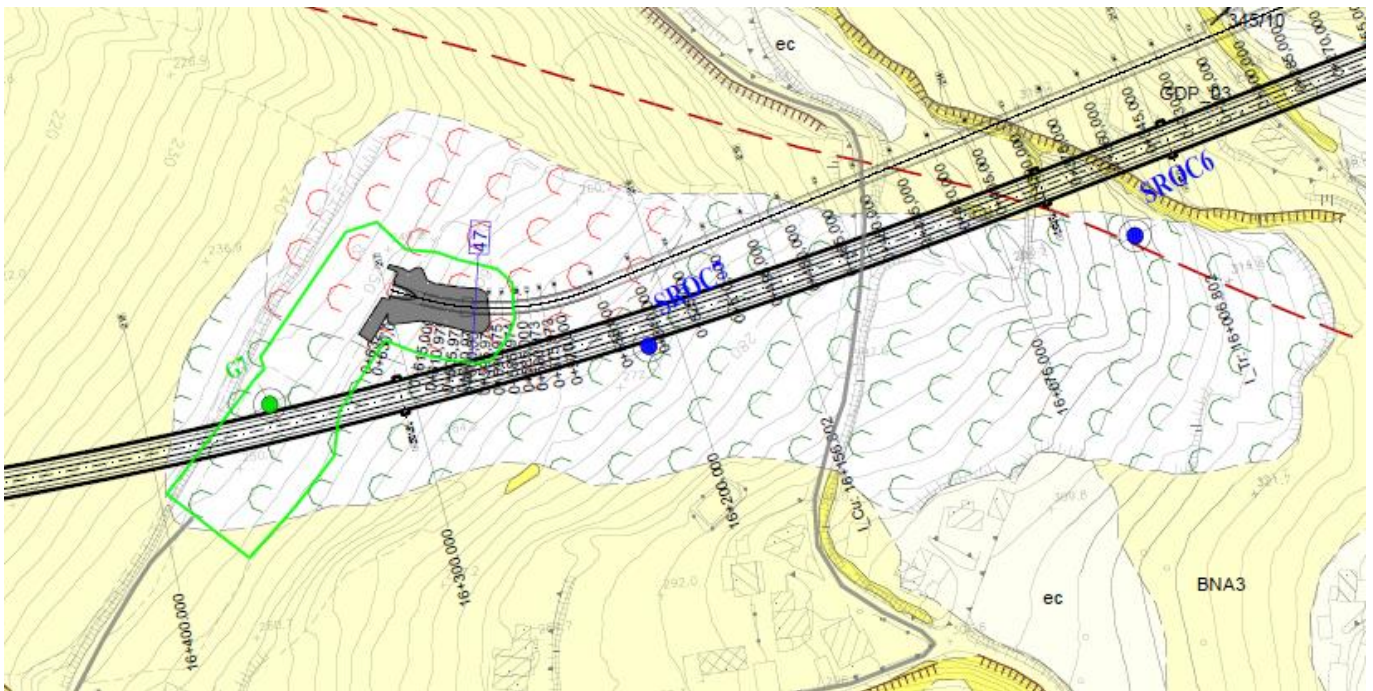


Fig. 1 – Stralcio carta geologica - geomorfologica

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7.2 INDAGINI GEOTECNICHE

In corrispondenza dell'imbocco della presente galleria sono stati eseguiti i sondaggi:

- G7 – Campagna Indagini 2017
- SROC7 – Campagna Indagini 2019

7.3 CARATTERIZZAZIONE E MODELLAZIONE GEOTECNICA

I risultati delle indagini geotecniche, in sito e di laboratorio, hanno permesso di definire il modello geotecnico, rappresentativo delle condizioni stratigrafiche e delle caratteristiche fisico-meccaniche dei terreni/rocce interessati dalle opere di imbocco. Il modello geotecnico complessivo dell'opera in sotterraneo è rappresentato nell'elaborato "Galleria Rocchetta – uscita di emergenza pedonale F7 PK 15+700 - Profilo geotecnico/geomeccanico – Finestra F7".

7.3.1 Approccio procedurale

La stratigrafia dell'area in esame, in relazione all'opera in progetto, è caratterizzata dalla presenza della formazione della Baronia.

L'attività di caratterizzazione geotecnica è finalizzata alla definizione dei parametri geotecnici che competono alle differenti unità individuate nello specifico contesto di imbocco in esame.

L'iter logico/operativo adottato nell'attività di caratterizzazione condotta è il seguente:

- Identificazione dei sondaggi eseguiti nell'area in esame;
- Individuazione delle unità/livelli geotecnici discriminati in funzione dell'esame visivo delle cassette stratigrafiche associato alla lettura delle schede stratigrafiche e all'analisi della dimensione prevalente dei grani;
- Elaborazione dei risultati delle prove di laboratorio e delle prove in situ analizzando separatamente tutte le determinazioni provenienti dai campioni prelevati entro la medesima unità. Per dettagli sulla procedura di elaborazione delle prove si rimanda alla "Relazione Geotecnica Generale". Per la determinazione delle proprietà meccaniche la caratterizzazione geotecnica si è avvalsa primariamente dei risultati delle prove di laboratorio, successivamente, laddove questi fossero assenti o si ritenessero necessario integrare le valutazioni con altre prove sono stati presi in considerazione i risultati delle prove in foro SPT (con correlazioni appropriate ai litotipi) e Pocket Penetrometer. Le proprietà di deformabilità vengono determinate sulla base risultati delle prove in foro.
- Caratterizzazione geotecnica dei livelli geotecnici individuati sulla base delle elaborazioni condotte, definendo il set di parametri geotecnici ad uso progettuale:
 - peso di volume naturale (γ);
 - coesione efficace (c')
 - angolo di attrito interno di picco (φ)
 - moduli elastici operativi (E_{op}), desunti dai moduli elastici a piccole deformazioni e dalle risultanze dell'interpretazione delle prove in situ e in laboratorio.

7.3.2 Caratterizzazione geotecnica imbocco uscita F7

In corrispondenza dell'imbocco della finestra F7, sono presenti dei depositi di frana superficiali di spessore compreso nei 2 - 4 metri da piano campagna. Il materiale si trova in condizioni umide, con calcinelli e resti vegetali, e a luoghi patine di ossidazione ocracee. I valori di resistenza residui sono stati scelti sulla base delle risultanze della back analysis riportata ai paragrafi successivi.

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Fig. 2 – Livello geotecnico 1 (depositi franosi della formazione geologica del BNA3) nel sondaggio G7 (sx) e SROC7 (dx)

Subito dopo i depositi superficiali è presente sabbia da incoerente a debolmente cementata, moderatamente addensata colore giallo/giallo chiaro. Le curve granulometriche testimoniano la presenza rilevante di frazione sabbiosa, fino all'80%. Le prove speditive di Pocket Penetrometer, condotte solo nei livelli maggiormente coesivi – primi metri superficiali del G7 -, restituiscono una resistenza a rottura di circa 400 kPa. Le prove SPT registrano valori di N_{spt} che vanno da 25 a 50 lungo lo spessore dello strato. Le proprietà meccaniche sono state valutate sulla risultanza delle prove di laboratorio di taglio diretto con confronto delle prove SPT sopracitate (correlazioni empiriche di Schmertmann ('77), Bolton ('86) e Peck Hanson & Thorburn ('74)).



Fig. 3 – Livello geotecnico 2 (formazione geologica del BNA3) nel sondaggio G7 (sx) e SROC7 (dx)

Il terzo livello geotecnico, di spessore pari a 5 m circa, è costituito da argille marnose/ marne argillose e argilliti dure di colore grigio scuro con livelli di siltite argillose. Non sono state eseguite curve granulometriche sui campioni di tale livello, ma la scheda stratigrafica riporta struttura a grana finissima. Il contenuto d'acqua è contenuto e pari a 9%, e l'unica prova meccanica effettuata di Point Load Test restituisce una resistenza

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monoassiale di 1.8 MPa. L'elevata consistenza trova riscontro nei risultati delle prove speditive di Pocket Penetrometer eseguite sulla verticale G7 che registrano valori di resistenza a rottura maggiori di 2 MPa. Le prove penetrometriche standard hanno misurato valori Nspt di 60 e di rifiuto.



Fig. 4 – Livello geotecnico 3 (formazione geologica del BNA3) nel sondaggio G7 (sx) e SROC7 (dx)

Dai 15 m in poi (18 m per il sondaggio SROC7) la formazione del BNA3 ritorna costituito da sabbia eterometrica da debolmente cementata a molto addensata, giallastra. analisi di laboratorio evidenziano la presenza di frazione sabbiosa al 70-80 % e contenuto d'acqua variabile dal 12 al 20 %. Non sono state eseguite prove di resistenza meccanica in laboratorio ma le prove penetrometriche dinamiche hanno restituito valori differenti e pari a 30 , 60 e rifiuto.



Fig. 5 – Livello geotecnico 4 (formazione geologica del BNA3) nel sondaggio G7 (sx) e SROC7 (dx)

Di seguito vengono riportati i grafici che risultano dalle elaborazioni delle prove e delle indagini geotecniche di laboratorio ed in situ distinguendo, per quelle in laboratorio i risultati delle prove relative ai diversi sondaggi eseguiti.

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7.3.2.1 ELABORAZIONE PROVE FISICHE DI LABORATORIO

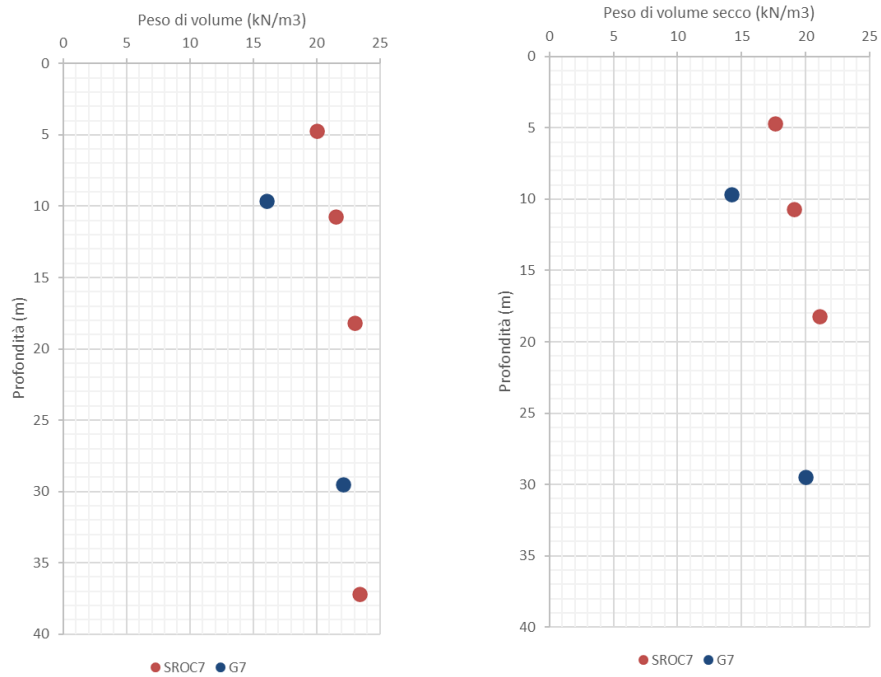


Fig. 6 – Peso di volume e peso di volume secco

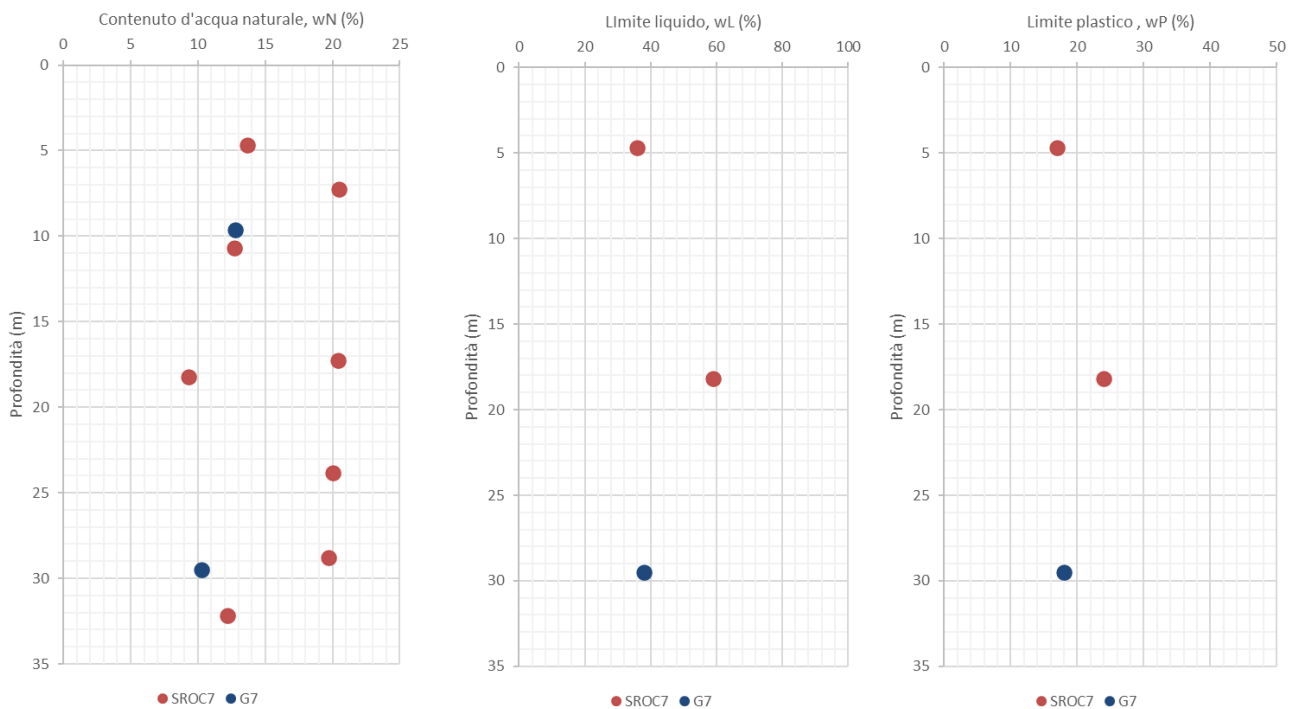


Fig. 7 – Contenuto d'acqua, limite liquido e limite plastico

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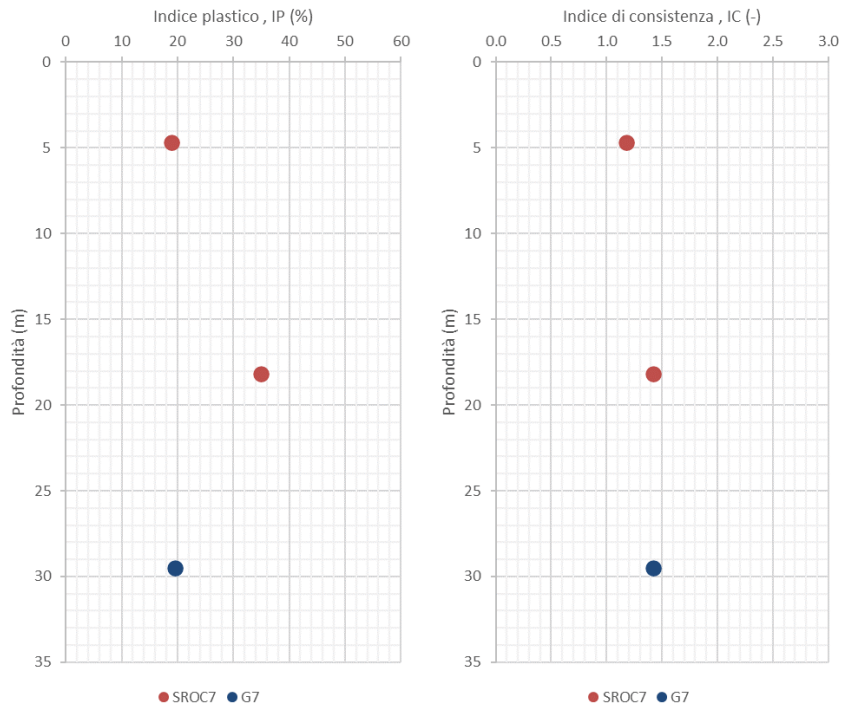


Fig. 8 – Indice plastico, di consistenza e di attività

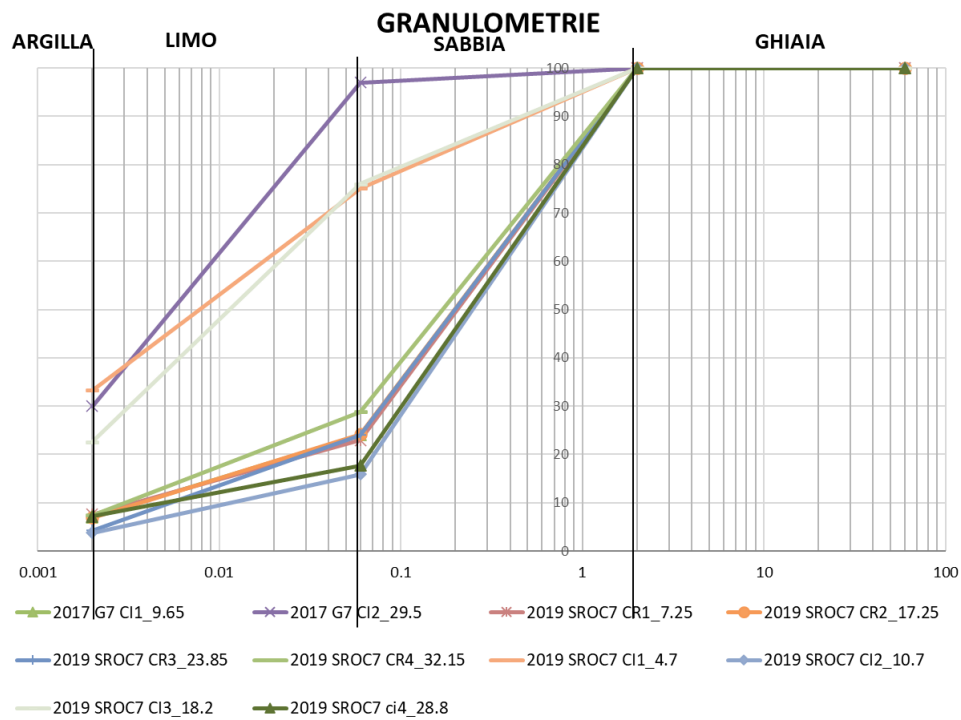


Fig. 9 – Curve Granulometriche

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7.3.2.2 ELABORAZIONE PROPRIETÀ FISICHE DA PROVE IN FORO

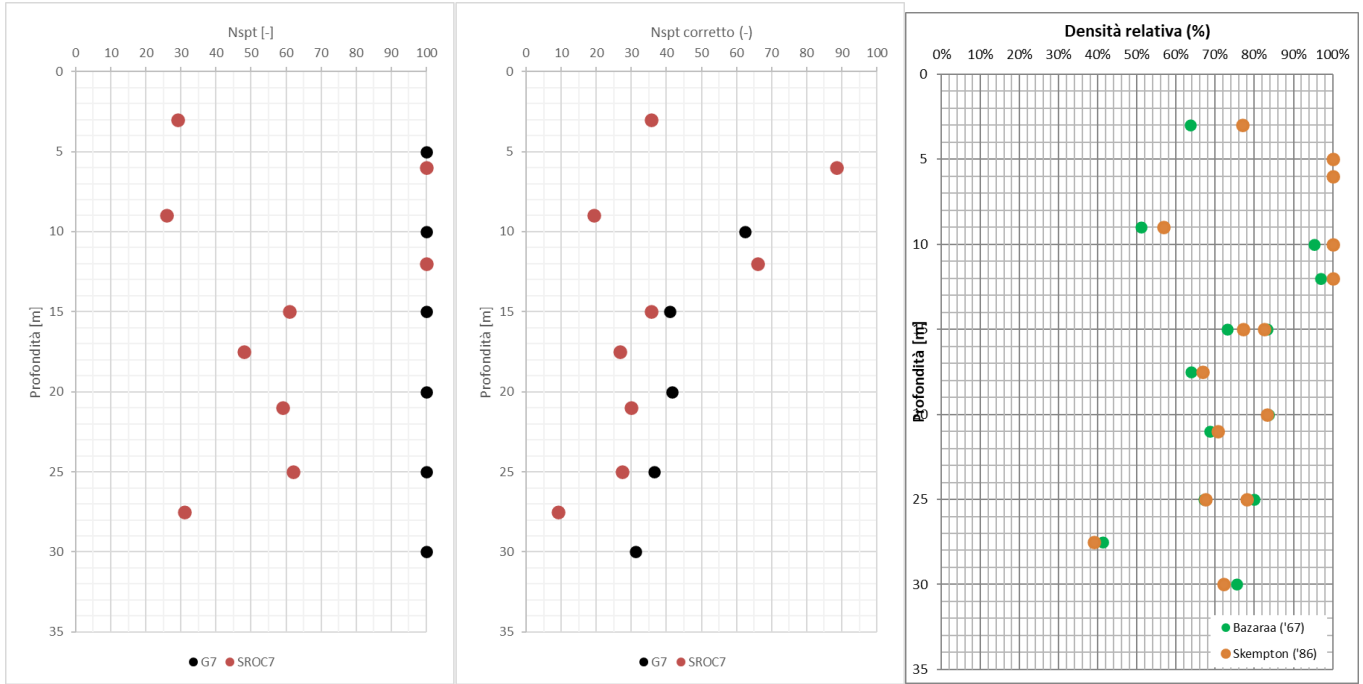


Fig. 10 – Valori Nspt e densità relativa

7.3.2.3 ELABORAZIONE PROPRIETÀ MECCANICHE DA PROVE IN LABORATORIO

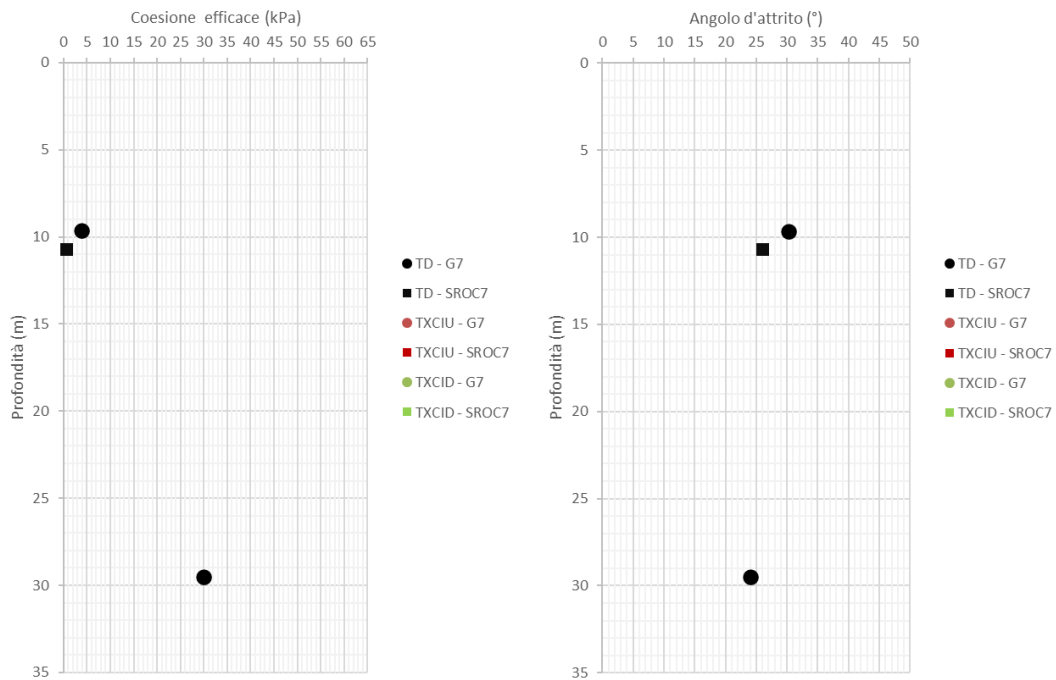


Fig. 11 – Proprietà meccaniche – Coesione e angolo d'attrito

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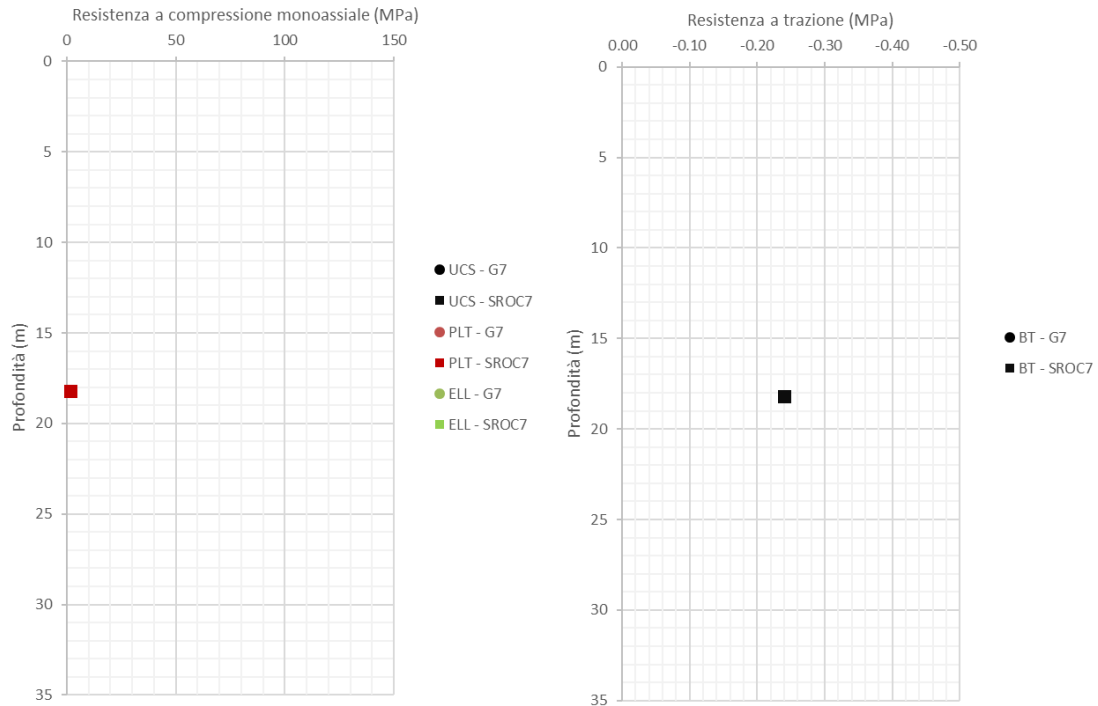


Fig. 12 – Proprietà meccaniche – Coesione non drenata, Resistenza a compressione e a trazione

7.3.2.4 ELABORAZIONE PROPRIETÀ MECCANICHE DA PROVE IN FORO

Cu, coesione non drenata, PP (kPa)

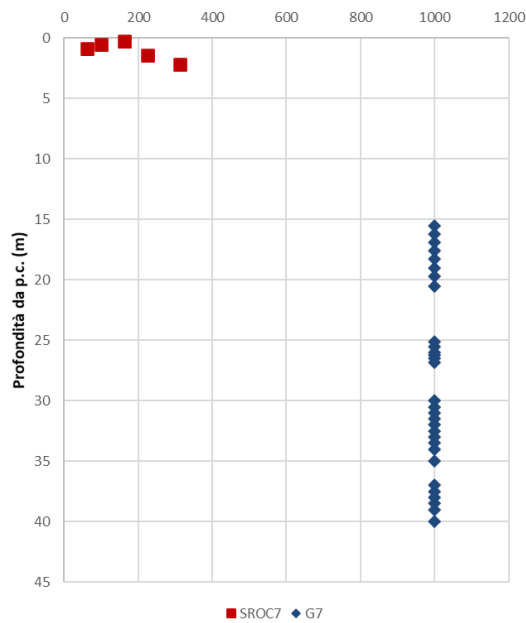


Fig. 13 – Proprietà meccaniche – Coesione non drenata derivante da Pocket Penetrometer

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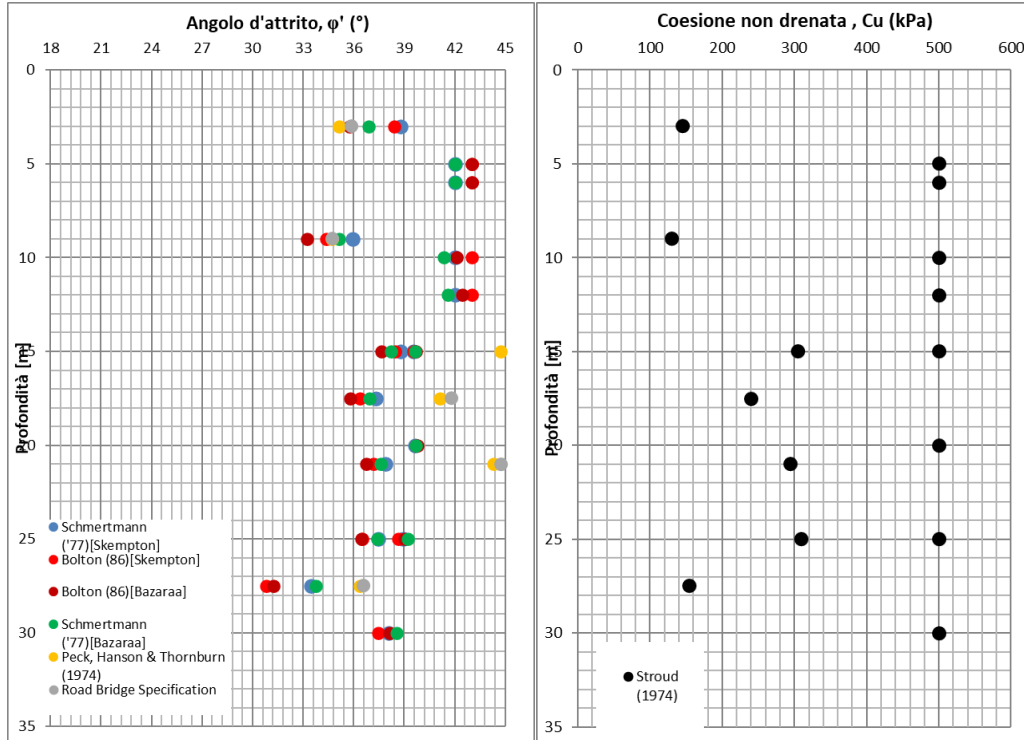


Fig. 14 – angolo d'attrito e coesione non drenata derivanti dai valori di Nsp

7.3.2.5 ELABORAZIONE PROPRIETÀ DI DEFORMABILITÀ DA PROVE IN FORO

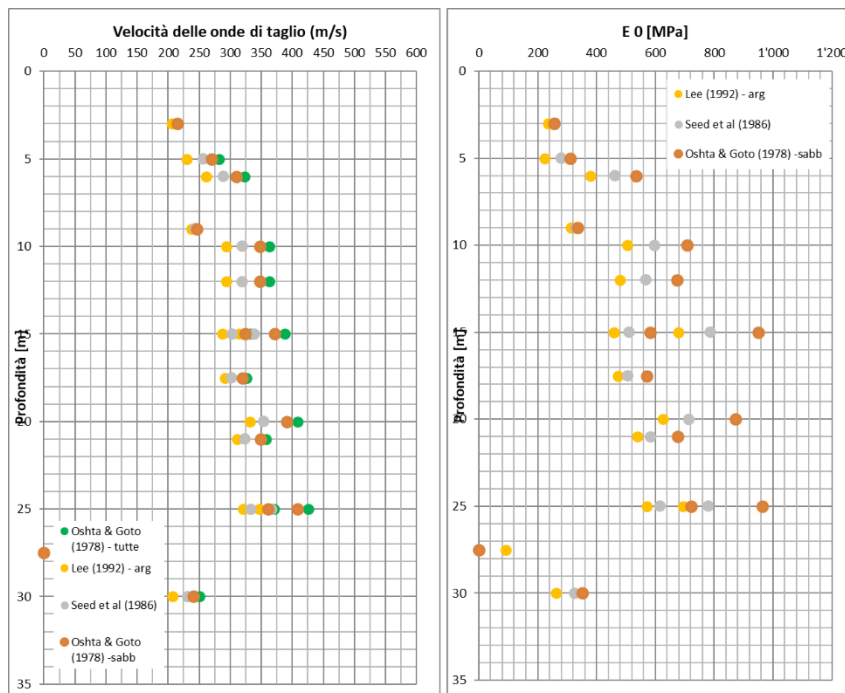


Fig. 15 – Velocità delle onde di taglio e del modulo elastico a piccole deformazioni derivanti dai valori di Nsp

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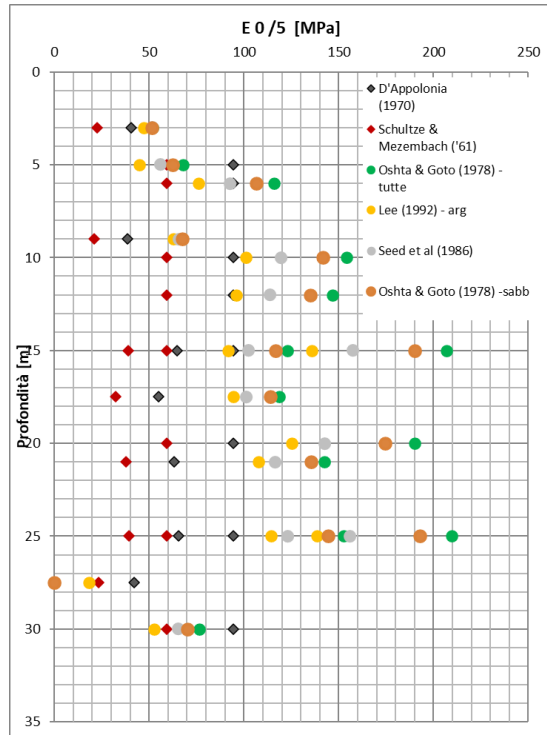


Fig. 16 – Modulo Elastico operativo

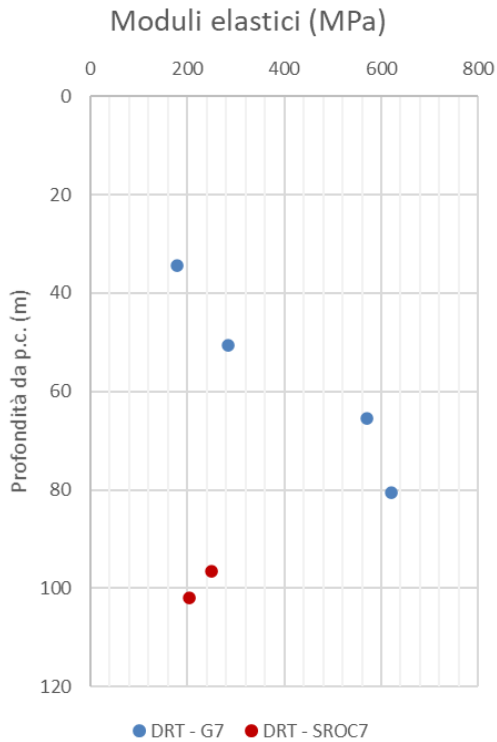


Fig. 17 – Moduli da prove dilatometriche

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7.3.2.6 CONDUCEBILITÀ IDRAULICA DA PROVE IN FORO

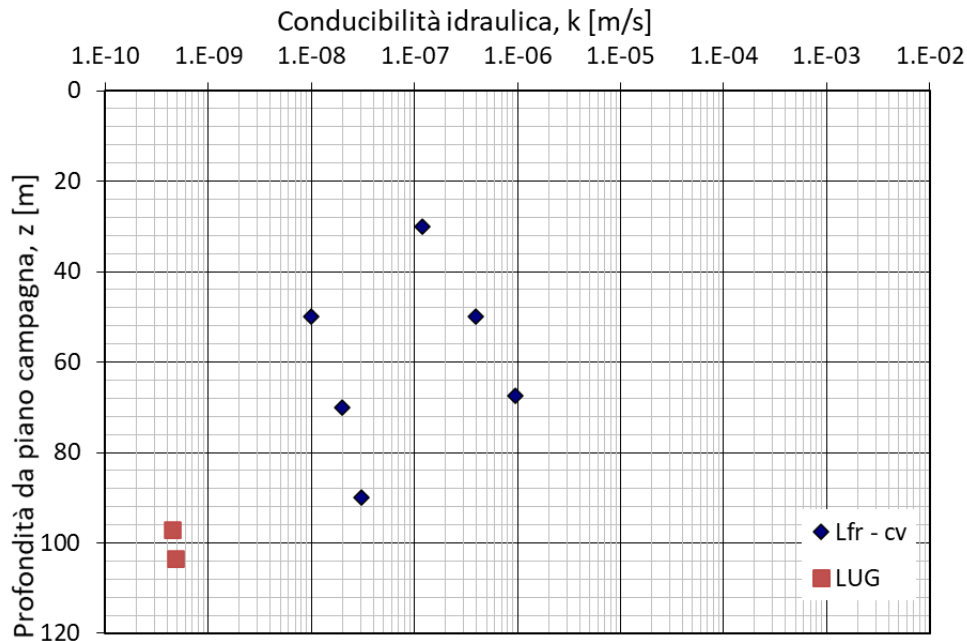


Fig. 18 – Conducibilità idraulica

7.3.2.7 QUADRO DI SINTESI DEI RISULTATI

Le caratteristiche dei materiali sono di seguito riportate:

Livello geotecnico	Profondità		γ (kN/m ³)	ϕ (°)	c' (kPa)	ϕ_{res} (°)	c'_{res} (kPa)	E' (MPa)
	da	a						
BNA3_1	0	4(*)	20	25	5	14	0	10-20
BNA3_2	4(*)	15	20	28-32	0-5			20-80
BNA3_3	15	20	21	24-26	20-40			50-100
BNA3_4	20	30	20	30-34	0-10			80-120

(*) profondità dei depositi di frana;
 γ = peso di volume naturale (kN/m³);
 ϕ = angolo di resistenza al taglio (°);
 c' = valore della coesione efficace (kPa);
 E' = modulo di Young (MPa)

Tabella 1 – Valori di riferimento dei parametri geotecnici nell'area dell'imbocco lato della finestra F7

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7.3.3 Definizione dei valori caratteristici dei parametri geotecnici utilizzati nelle analisi

I parametri geotecnici caratteristici utilizzati nell'ambito della analisi di simulazione e verifica sono riportati nella tabella seguente

Livello geotecnico	Profondità		γ (kN/m ³)	ϕ (°)	c' (kPa)	ϕ' (°)	c' (kPa)	E' (MPa)
	da	a						
BNA3_1	0	4	20	25	5	14	0	15
BNA3_2	4	15	20	30	2.5			50
BNA3_3	15	20	21	25	30			75
BNA3_4	20	30	20	32	50			100

γ = peso di volume naturale (kN/m³);
 ϕ' = angolo di resistenza al taglio (°);
 c' = valore della coesione efficace (kPa);
 E' = modulo di Young (MPa)

Tabella 2 – Valori caratteristici dei parametri geotecnici utilizzati nelle analisi per l'imbocco della finestra F7

7.3.4 Il regime idraulico

E' segnalata la presenza di una falda alla profondità di circa 14.8 m dal piano campagna.

7.4 CARATTERISTICHE DEL SITO E DEFINIZIONE DELL'AZIONE SISMICA

Le opere in progetto per l'imbocco della finestra pedonale F7 si trovano nel comune di Apice, in un sito con le seguenti coordinate geografiche: geografiche: Latitudine 41° 08' 09.8" N, Longitudine 14° 55' 58.8" E

Alle strutture di sostegno, trattandosi di opere provvisoriale, si attribuisce una vita nominale V_N di 35 anni. Di conseguenza, il periodo di riferimento per la definizione dell'azione sismica, V_R , si assume pari a 35 anni (DM 14/01/2008). Tuttavia, poiché per le opere di sostegno degli imbocchi è prevista una vita inferiore ai 2 anni, queste non verranno verificate nei confronti del sisma. Per completezza si riportano ugualmente i parametri sismici ricavati.

Con riferimento alla probabilità di superamento dell'azione sismica, P_{VR} , attribuita allo stato limite ultimo di salvaguardia della vita (SLV), nel periodo V_R dell'opera in progetto, si determina il periodo di ritorno T_R del sisma di progetto. Sulla base delle coordinate geografiche del sito e del tempo di ritorno del sisma di progetto, T_R , sopra definito, si ricavano i parametri che caratterizzano il sisma di progetto relativo al sito di riferimento, rigido ed orizzontale (Tabella 1 dell'allegato B del DM 14/01/2008):

- a_g : accelerazione orizzontale massima
- F_0 : valore massimo del fattore di amplificazione dello spettro in accelerazione orizzontale
- T^*c : periodo di inizio del tratto a velocità costante dello spettro in accelerazione orizzontale

Per le opere provvisoriale di imbocco il periodo di ritorno si determina con l'espressione:

$$T_R = - \frac{V_R}{\ln(1 - P_{V_R})}$$

Per tenere conto dei fattori locali del sito, l'accelerazione orizzontale massima attesa al sito è valutata con la relazione (DM 14/01/2008):

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$$a_{\max} = S_s \cdot S_T \cdot \left(\frac{a_g}{g} \right)$$

dove:

a_g è l'accelerazione orizzontale massima attesa su sito di riferimento rigido

S_s è il fattore di amplificazione stratigrafica del terreno, funzione della categoria del sottosuolo di fondazione e dei parametri sismici F_0 e a_g/g (Tabella 32V del DM 14/01/2008);

S_T è il fattore di amplificazione che tiene conto delle condizioni topografiche, il cui valore dipende dalla categoria topografica e dall'ubicazione dell'opera (Tabella 32VI del DM 14/01/2008)

I valori delle grandezze necessarie per la definizione dell'azione sismica per le opere d'imbocco sono riassunti nella seguente tabella:

	Imbocco F7
	Strutture di sostegno
Coord geografiche	41° 08' 09.8" N 14° 55' 58.8" E
Stato limite	SLV
T_R	332
a_g/g	0.225
F_0	2.289
Categoria sottosuolo	C
S_s	1.392
Categoria topografica	T1
S_T	1
a_{\max}/g	0.313

Tabella 3 – Parametri per la definizione dell'azione sismica di progetto

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8 CARATTERISTICHE DEI MATERIALI STRUTTURALI

Si riportano di seguito le principali caratteristiche dei diversi materiali impiegati nelle opere in progetto, con l'indicazione dei valori di resistenza e deformabilità adottati nelle verifiche, nel rispetto delle indicazioni del DM 14/01/2008 e della "Specificazione per la progettazione geotecnica delle opere civili ferroviarie" RFI DTC INC CS SP IFS 001 A.

Nelle verifiche di resistenza, a favore di sicurezza, viene sempre considerato un calcestruzzo di classe di resistenza C25/30.

Per la completa e puntuale definizione delle caratteristiche dei materiali previsti per la realizzazione dell'opera si rimanda all'elaborato specifico.

Strutture di sostegno provvisionali

Calcestruzzo	
Classe di resistenza	C25/30
Resistenza di progetto a compressione a 28 giorni	$f_{cd} = 0.85 f_{ck} / 1.5 = 14.17 \text{ MPa}$
Modulo elastico a 28 giorni	$E_{cm} = 22 * (f_{cm} / 10)^{0.3} = 31475 \text{ MPa}$

Acciaio per tubi e profilati	
Tipo	S 275 JR
Tensione di snervamento caratteristica	$f_{yk} \geq 275 \text{ MPa}$
Tensione di rottura caratteristica	$f_{tk} \geq 430 \text{ MPa}$
Tensione di snervamento di calcolo	cfr 4.2.4 a 4.2.9 del DM 14/01/08

Acciaio armonico per tiranti	
Tipo	Trefoli da 0,6"
Tensione di rottura caratteristica	$f_{ptk} \geq 1860 \text{ MPa}$
Tensione elastica all'1% di deformazione	$f_{p(1)k} \geq 1670 \text{ MPa}$

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9 CRITERI DI VERIFICA DELLE OPERE

Le verifiche sono state condotte in accordo con le prescrizioni e le indicazioni del DM 14/01/2008 e della Circolare n617/09.

9.1 OPERE DI SOSTEGNO

9.1.1 Azioni

Le azioni considerate per la verifica delle strutture di sostegno dell'imbocco sono le seguenti:

- **azioni permanenti strutturali:** peso proprio degli elementi strutturali, spinta del terreno a monte e a valle dell'opera
- **azioni variabili:** carico variabile sul piano campagna a monte della struttura di sostegno, Q_{1M} , ove presente, atto a schematizzare nella fase costruttiva l'eventuale presenza di sovraccarichi di varia natura connessi alla realizzazione delle opere
- **azione sismica:** l'accelerazione orizzontale massima attesa al suolo è definita nel paragrafo 7.4. Come detto in precedenza, poiché per le opere di sostegno provvisionali degli imbocchi è prevista una vita inferiore ai 2 anni, queste non verranno verificate nei confronti del sisma.

Sulla base della definizione dei carichi di cui sopra, in accordo a quanto prescritto dal DM 14/01/2008, si considera la sola combinazione fondamentale per le verifiche di stati limite ultimi e di esercizio in condizioni statiche.

9.1.2 Approcci progettuali e metodi di verifica

Le verifiche delle strutture di sostegno sono state condotte nei riguardi dei seguenti stati limite ultimi (SLU):

- collasso del complesso opera-terreno;
- instabilità globale dell'insieme terreno-opera;
- sfilamento di uno o più ancoraggi;
- raggiungimento della resistenza in uno o più ancoraggi,
- raggiungimento della resistenza degli elementi strutturali

Come prescritto dal DM 14/01/2008 per le strutture di sostegno flessibili, è stato adottato l'Approccio Progettuale 1 con le due combinazioni di coefficienti parziali (tabelle 62I, 62II e 65I del DM 14/01/2008):

- combinazione 1: $A1 + M1 + R1$
- combinazione 2: $A2 + M2 + R1$

Il dimensionamento geotecnico dell'opera è stato condotto con la verifica di stati limite ultimi GEO, applicando la Combinazione 2 ($A2+M2+R1$) Per le verifiche di stati limite ultimi STR l'analisi è stata condotta la combinazione 1 ($A1+M1+R1$), applicando i coefficienti parziali $A1$ ($\gamma = 13$) all'effetto delle azioni A tale scopo, nelle analisi, i valori caratteristici dei carichi variabili sfavorevoli sono stati amplificati di un coefficiente pari a $1.5/1.3 = 115$

Il corretto dimensionamento nei confronti degli SLU assicura che gli spostamenti dell'opera siano compatibili con le esigenze di funzionalità della stessa; pertanto, trattandosi di opere provvisionali, in assenza di fabbricati o altre opere da salvaguardare a ridosso delle stesse, non si ritengono necessarie ulteriori valutazioni di verifica nei confronti degli SLE

Per le verifiche di stabilità globale è stato applicato l'Approccio 1- Combinazione 2 ($A2+M2+R2$ – tabb 62I, 62II e 68I del DM 14/01/2008).

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I coefficienti di spinta attiva sono stati determinati attraverso la relazione di Mononobe (1929) e Okabe (1926).
I coefficienti di spinta passiva sono stati determinati attraverso la relazione di Lancellotta (2007).
L'angolo di attrito terreno/struttura, δ , è stato assunto pari a 2/3 della resistenza al taglio del terreno naturale.

Le verifiche sono state condotte mediante l'ausilio del codice di calcolo PARATIE (versione 2017) .

9.1.3 Stabilità globale

Le verifiche di sicurezza SLU sono state condotte secondo l'Approccio 1 - Combinazione 2 (A2+M2+R2), in cui A2 sono i coefficienti moltiplicativi delle azioni e M2 e R2 sono i coefficienti riduttivi dei parametri di resistenza dei materiali e della resistenza globale del sistema. Il rapporto tra R_d ed E_d dovrà risultare sempre maggiore o uguale a $\gamma_R = 1.1$ in condizioni statiche per assicurare che la verifica di sicurezza richiesta da normativa sia rispettata.

Per la valutazione della superficie di scorrimento critica (ed in generale di tutte le superfici di scorrimento) è stato utilizzato il metodo di Morgenstern & Price.

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10 VERIFICA DELLE OPERE D'IMBOCCO

10.1 OPERE DI SOSTEGNO

Sono state verificate le seguenti sezioni in relazione all'imbocco della finestra F7:

- sez 1: paratia frontale: sezione longitudinale alla pk 0+601.37;
- sez 2: paratia laterale: sezione trasversale alla pk 0+605.00;

10.1.1 Sezione 1 Longitudinale – pk 0+601.37

La sezione fa riferimento alla zona di imbocco della galleria ed è sostenuto da due ordini di tirantature. Sono di seguito descritte le principali caratteristiche della struttura e del modello geotecnico per le analisi di verifica. La geometria della struttura di sostegno e la stratigrafia sono illustrate nel modello di figura seguente.

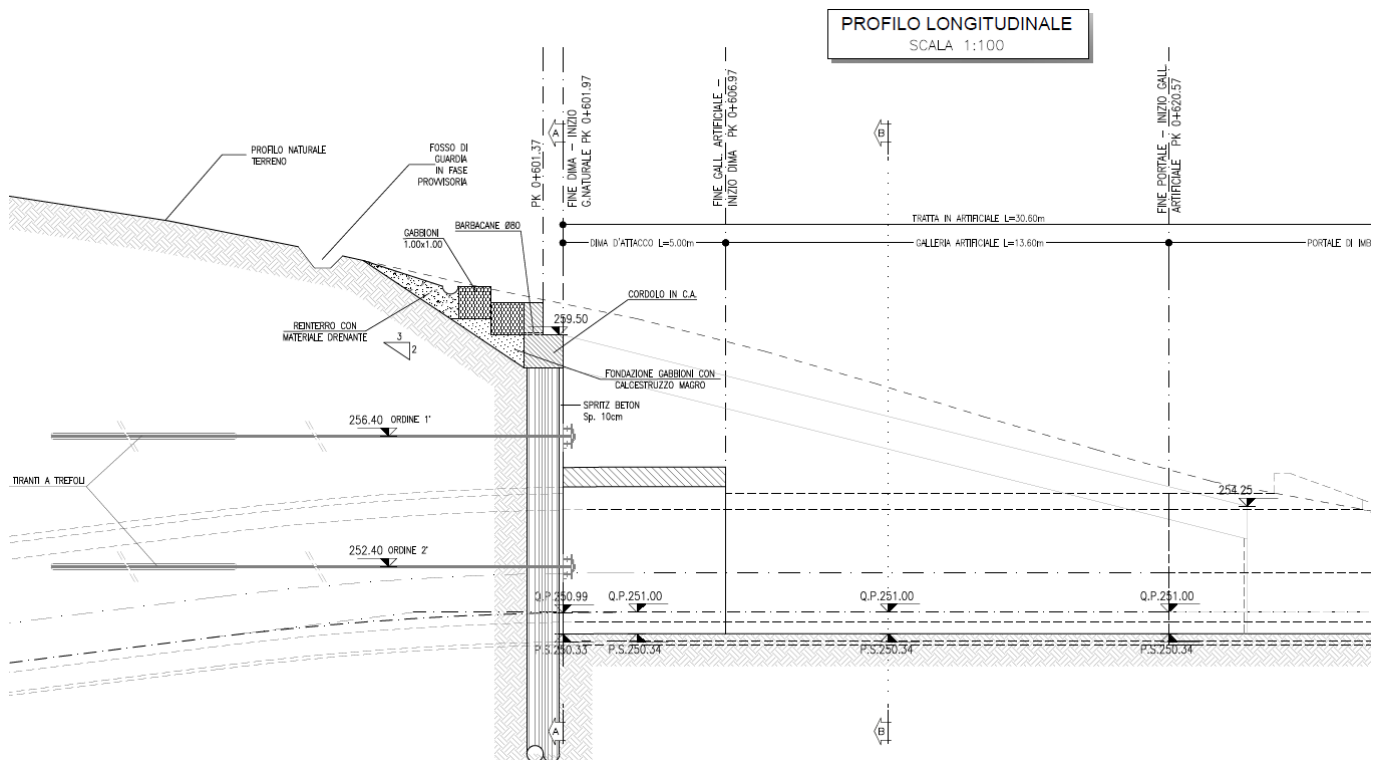


Fig. 19 – Sezione 1 - Geometria di riferimento

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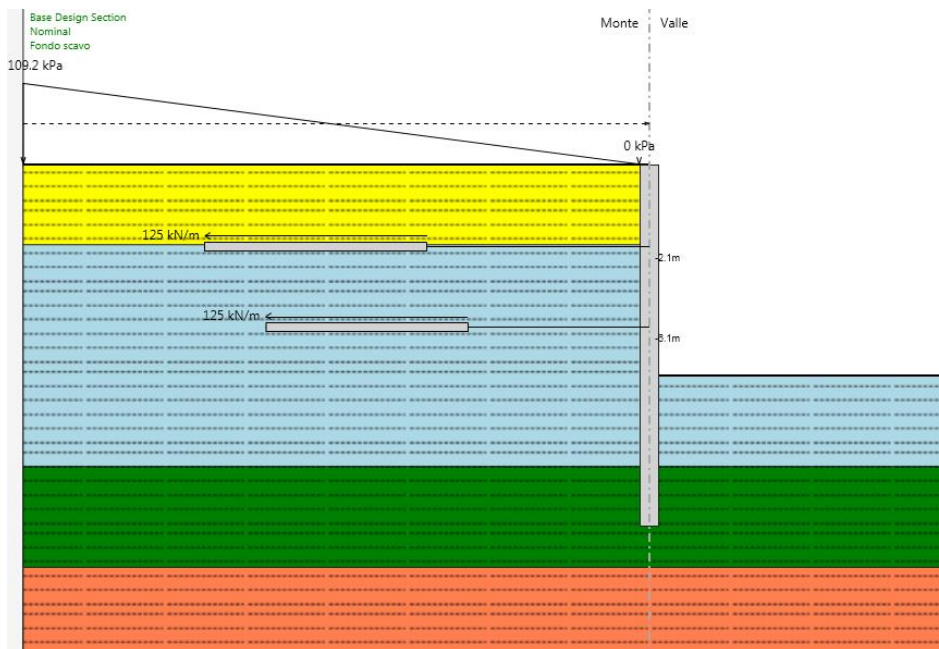


Fig. 20 – Sezione 1 - Modello di calcolo - step finale di calcolo (fase 6)

La stratigrafia di riferimento presenta la seguente sequenza:

- BNA3_1 da p.c. a 4.0m di profondità;
- BNA3_2 da 4.0m a 15.0m di profondità;
- BNA3_3 da 15.0m a 20.0m di profondità;
- BNA3_4 da 20.0m a 30.0m di profondità.

Tipologia struttura di sostegno	Paratia in pali ϕ 1000mm passo 1.2m
Altezza totale paratia	$H_{tot} = 18m$ (veletta+cordolo=2+pali $L=16m$)
Altezza libera paratia	$H = 9.5m$ (esclusa veletta=1m)
Ordini di puntoni	-
Ordini di tiranti (n°)	2 ordini
Passo orizzontale tiranti	2.4m
Passo verticale dei tiranti	4m
Inclinazione iniziale del piano campagna a monte	11^0 (schematizzato con sovraccarichi dal piano campagna)
Inclinazione iniziale del piano campagna a valle	0^0
Sovraccarichi variabili a monte	-
Sovraccarichi variabili a valle	-

Tabella 4 – Sezione 1 - Caratteristiche geometriche della sezione di calcolo

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Terreno	Gruppo coeff. Parziali	Condizione	γ	c_d	φ'_d	δ	E'	E'_{ur}	k_o	K_a	K_p
			(kN/m ³)	(kPa)	(°)	(°)	(Mpa)	(Mpa)	(-)	(-)	(-)
BNA3_1	M1	SLU	20	0	14.0	9.3	15	24	0.758	0.547	1.899
		-									
	M2	SLU		0	14.0	9.3			0.758	0.547	1.899
		-									
BNA3_2	M1	SLU	20	2.5	30.0	20.0	50	80	0.500	0.279	4.633
		-									
	M2	SLU		2.0	24.8	16.5			0.581	0.349	3.372
		-									
BNA3_3	M1	SLU	20	30.0	25.0	16.7	75	120	0.577	0.346	3.413
		-									
	M2	SLU		24.0	20.5	13.6			0.650	0.418	2.647
		-									
BNA3_4	M1	SLU	20	5.0	32.0	21.3	100	160	0.470	0.256	5.283
		-									
	M2	SLU		4.0	26.6	17.7			0.553	0.324	3.742
		-									

γ = peso dell'unità di volume

c'_d = coesione efficace (valore di calcolo)

φ'_d = angolo di resistenza al taglio (valore di calcolo)

δ = angolo d'attrito struttura/terreno

E' = modulo di Young

E'_{ur} = modulo di Young (scarico/ricarico)

k_o = coefficiente di spinta a riposo

K_a = coefficiente di spinta attiva

K_p = coefficiente di resistenza passiva

Tabella 5 – Sezione 1 - Parametri geotecnici di calcolo.

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Il livello di falda è a quota -65m circa dal piano campagna, quindi è ubicata al di sotto del piano scavo.

L'analisi si è articolata nelle seguenti fasi:

- fase 1: geostatica;
- fase 2: scavo sino a – 3.1m dalla base del cordolo;
- fase 3: attivazione del primo ordine di tiranti
- fase 4: scavo sino a – 7.1m dalla base del cordolo
- fase 5: attivazione del secondo ordine di tiranti;
- fase 6: fondo scavo a -8.5m dalla base del cordolo.

Per dimensionare il carico spingente della frana, è necessario eseguire una backanalysis dello stato di fatto, analizzando la condizione di incipente collasso su Slope. Sulla base dei risultati delle prove a disposizione, si assegna un angolo d'attito residuo Φ pari a 14° e una coesione residua di 0kPa allo strato in frana.

Si osserva un abbassamento del fattore di sicurezza fino al valore unitario all'innalzarsi della falda dalla quota di progetto, al di sotto dello strato in frana, fino a circa metà strato. Si conclude quindi che in periodi di intense piogge, la frana si può attivare.

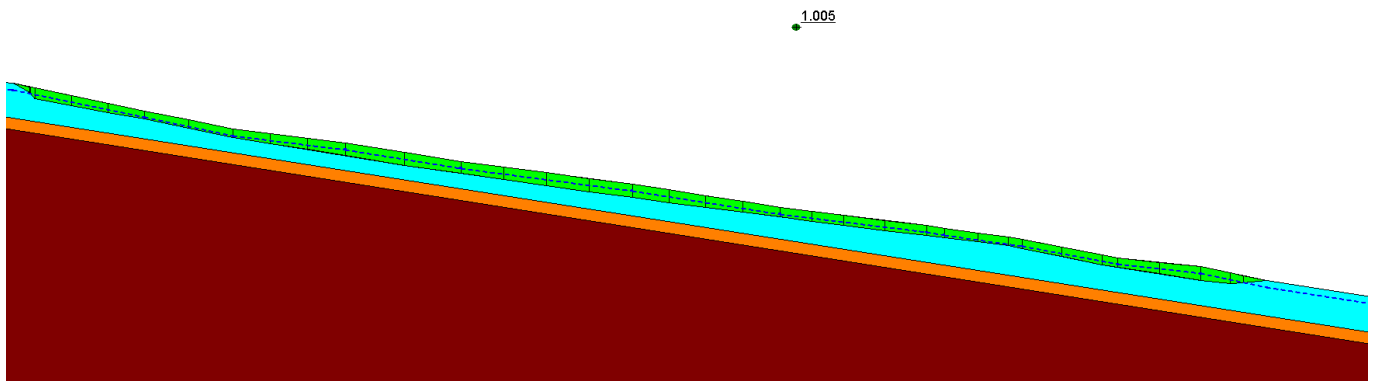


Fig. 21 – Sezione 1 – Back analysis

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Viene quindi fatto un secondo modello in cui si riabbassa la falda a livello di progetto, considerando anche che la paratia di imbocco funge da dreni a valle, evitando innalzamenti eccessivi, e si sagoma il pendio, simulando la zona di scavo. In questo modo è possibile ricavare che per l'equilibrio non è necessaria una forza stabilizzante per raggiungere un FS superiore a 1.1: infatti in assenza di forza stabilizzante il FS ottenuto è pari a $1.205 > 1.1$.

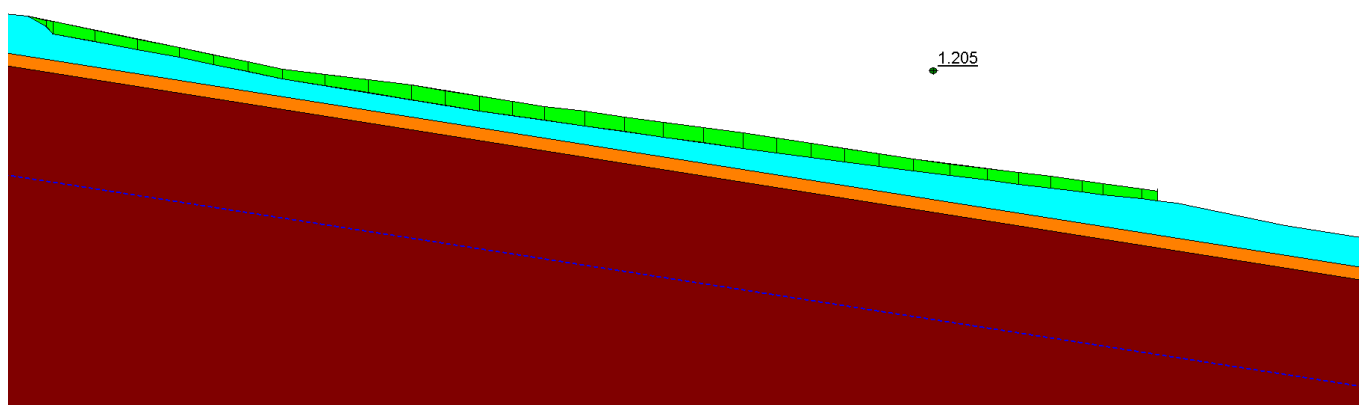


Fig. 22 – Sezione 1 – Valutazione forza stabilizzante

Sul modello di paratie non viene quindi applicata una forza aggiuntiva, ma vengono assegnati allo strato in frana i parametri residui ottenuti dalla backanalysis (angolo d'attito residuo Φ pari a 14° e una coesione residua di 0kPa).

10.1.1.1 RISULTATI DELLE ANALISI

I risultati delle analisi sono di seguito descritti in sintesi ed illustrati in maggior dettaglio nell'allegato pertinente.

	SLU GEO		SLU STR		SLE
	Statico	Sismico	Statico	Sismico	(statico)
Spostamento massimo (cm)	8.0	-	4.4	-	4.4
Momento massimo (kNm/m)	-	-	440.6 (11.1m)	-	338.9 (-11.1m)
Taglio massimo (kN/m)	-	-	134.6 (-13.7m)	-	103.5 (-13.7m)
Spinta passiva mobilitata a valle (%)	65.1	-	44.8	-	44.8

Tabella 6 – Sezione 1- Risultati delle analisi

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Verifica del complesso opera-terreno

Per le verifiche di stabilità globale sono stati utilizzati i parametri abbattuti, in accordo a quanto riportato in precedenza per la condizione GEO.

Dato che le fasi di scavo riguardano un tempo limitato e inferiore ai 2 anni, si verifica la stabilità globale dell’opera solo in fase statica, non considerando, a favore di sicurezza, il contrasto offerto dalla sella.

I coefficienti di sicurezza ottenuti relativamente alla stabilità globale sono riportati nella tabella seguente

Tipo di verifica	FS
Statica	1.75 > 1.10

Tabella 7 – Sezione 1- Verifica di stabilità globale. Fattore sicurezza minimo

Il coefficiente di sicurezza minimo indicato è stato calcolato con il metodo di Morgenstern–Price.

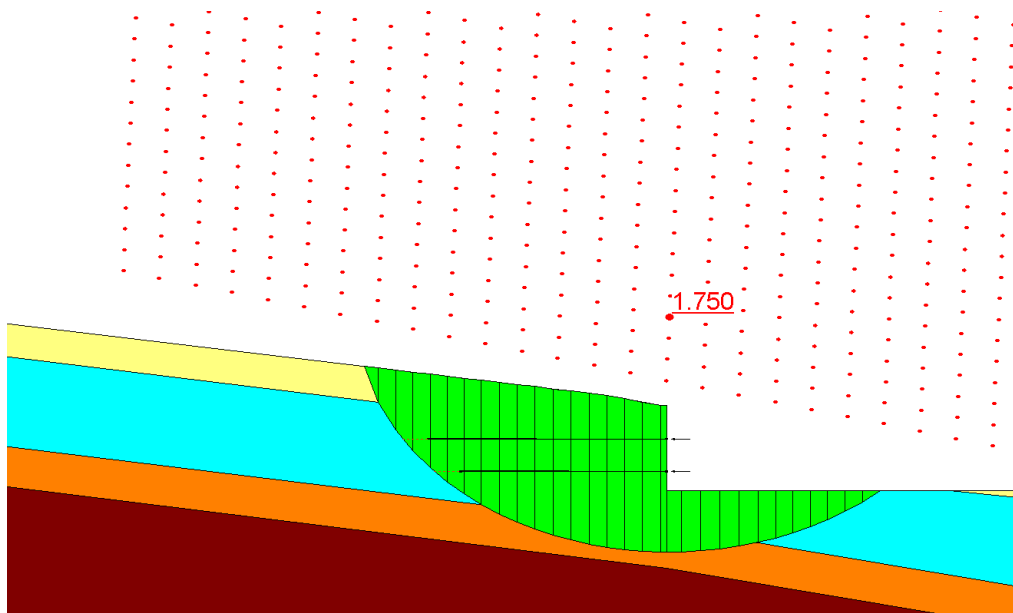


Fig. 23 – Sezione 1 - Risultati verifica di stabilità globale. Superficie critica

Verifica della mobilitazione della spinta passiva

Il grafico seguente riporta l’andamento della mobilitazione della spinta passiva per la condizione GEO. Risulta visibile che la resistenza disponibile risulta superiore a quella mobilitata, da cui la verifica della opera.

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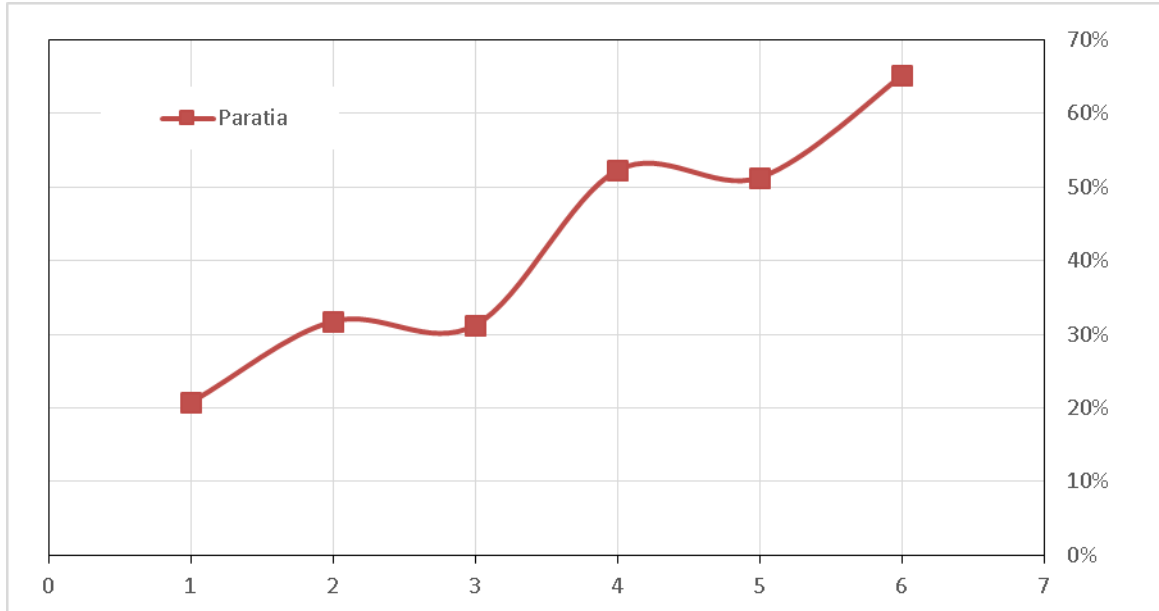


Fig. 24 – Sezione 1 - Risultati mobilitazione spinta passiva per la condizione A2+M2

Si evidenzia che la profondità di infissione dell'opera di sostegno garantisce uno spostamento limitato al piede.

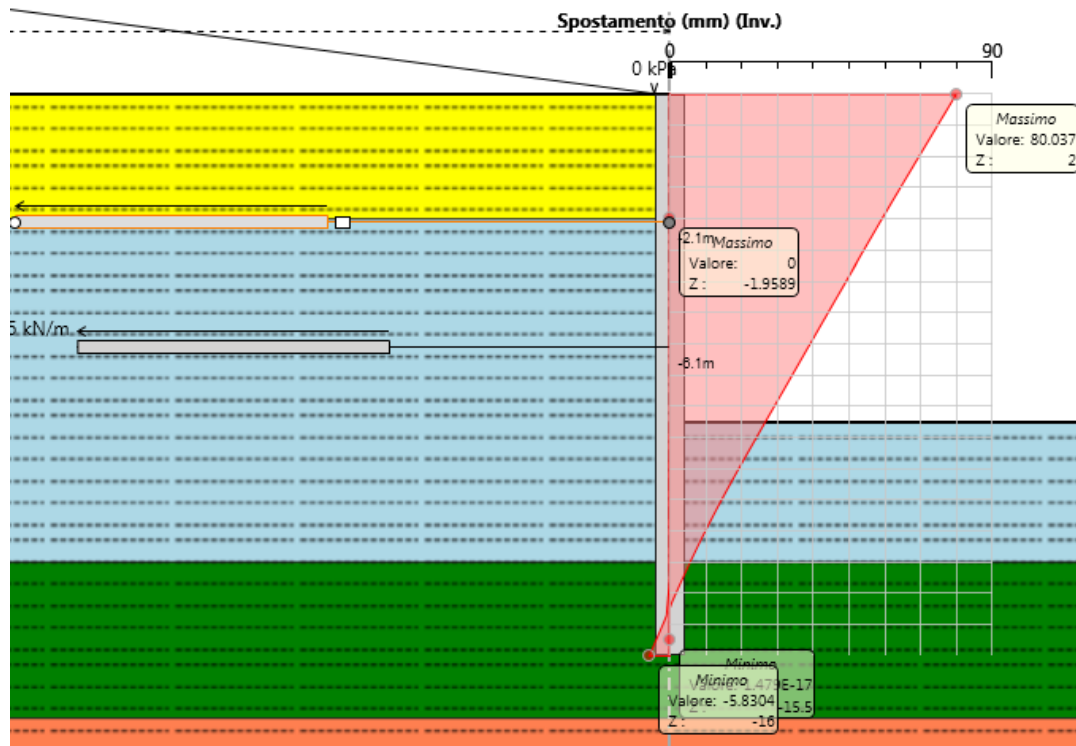


Fig. 25 – Involuppo della deformata dell'opera (SLU) nei vari step di calcolo

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Verifica collasso complesso opera- terreno

Per la verifica di collasso del complesso opera-terreno è stato definito un modello di calcolo all'interno del quale sono state imposte delle proprietà geomeccaniche dei terreni ridotte con i coefficienti parziali M2. Nel modello sono state imposte le stesse fasi esecutive riportate precedentemente. La convergenza di tale calcolo indica che la lunghezza assunta per l'opera di sostegno è sufficiente per non innescare un movimento di rotazione intorno al piede.

Strutture di supporto: tiranti

Riassunto caratteristiche

Ordine tiranti	Passo [m]	n. trefoli [kN/m]	Inclinazione [°]	Lunghezza libera [m]	Lunghezza ancoraggio [m]	Pretiro [kN]
1	2.4	3	0	11	10	265
2	2.4	3	0	9	10	300

Tabella 8 – Sezione 1 - Caratteristiche tiranti

Verifica a sfilamento del bulbo di ancoraggio

Ordine tiranti	τ_{lim} [kPa]	α [-]	D [m]	l_b [m]	ξ [-]	R_{ak} [kN]
1	205	1.2	0.14	10	1.8	601
2	205	1.2	0.14	10	1.8	601

Tabella 9 – Sezione 1 - Resistenza a sfilamento tiranti

dove:

- τ_{lim} = tensione di aderenza laterale limite fondazione-terreno;
- α = coefficiente di incremento del diametro di perforazione D dei tiranti che tiene conto della metodologia di iniezione e della natura dei terreni interessati;
- D = diametro di perforazione;
- l_b = lunghezza bulbo di ancoraggio;
- ξ_a = coefficiente di indagine.

Combinazione	Ordine tiranti	Passo [m]	E_k [kN/m]	P_d [kN]	R_{ak} [kN]	R_{ad} [kN]	Verifica
STR Statico	1	2.4	159.75	498	601	501	$R_{ad} > P_d$
	2	2.4	153.8	480	601	501	$R_{ad} > P_d$

Tabella 10 – Sezione 1 - Verifica sfilamento tiranti - fase statica

dove:

- E_k = tiro per metro di profondità
- P_d = E_k moltiplicato per l'interasse orizzontale tra i tiranti e il coefficiente amplificativo per le azioni definito da normativa (1.3 statico)

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- R_{ad} =resistenza di sfilamento di progetto
- $R_{a,d} = R_{ak} / \gamma_{Ra,p}$
- con $\gamma_{Ra,p} = 1.2$.
- R_{ak} =resistenza caratteristica scelta il minore tra i valori derivanti dall'applicazione dei coefficienti di correlazione al valor medio e al valor minimo delle resistenza $R_{a,c}$ ottenute dal calcolo come indicato di seguito:

$$R_{ak} = \min \left(\frac{(R_{a,c})_{medio}}{\xi_{a3}}; \frac{(R_{a,c})_{min}}{\xi_{a4}} \right)$$

Verifica della resistenza dell'armatura e della gerarchia delle resistenze

Verifica di resistenza dell'armatura	
$f_{p(1)k}$ (trefoli)	1670 Mpa
Coefficiente di sicurezza sul materiale	1.15
Area singolo trefolo (mm ²)	139 mm ²

Tabella 11 – Sezione 1 - Verifica armatura tiranti. Caratteristiche trefoli

Ordine tiranti	n.ro trefoli	R_{pk} [KN]	P_d [KN]	Verifica	R_{ak} [KN]	Verifica
1	3	606	498	$R_{pk} > P_d$	601	$R_{pk} > R_{ak}$
2	3	606	480	$R_{pk} > P_d$	601	$R_{pk} > R_{ak}$

Tabella 12 – Sezione 1 - Verifica armatura tiranti. Condizione statica

La verifica di resistenza dell'armatura è soddisfatta poiché $P_d < R_{pk}$.

La verifica della gerarchia delle resistenze è soddisfatta poiché la resistenza caratteristica limite di snervamento del tratto libero è maggiore della resistenza a sfilamento della fondazione del tirante $R_{pk} > R_{ak}$.

Verifiche SLU STR

Nelle verifiche si considerano le sollecitazioni massime sulla struttura secondo le varie analisi.

Nella verifica a presso-flessione si è considerato il peso proprio del palo valutato alla corrispondente quota di verifica. Si considera un copriferro di 6cm.

Verifica a presso-flessione

STR STATICA - VERIFICA SLU-A1-M1					
Quota da base cordolo (m)	M_{sk} (kNm/m)	M_{sd} (kNm)	N_{sd} (kN)	Armatura	M_{RD} (kNm)
-5.3	110.4	$110.4 * 1.2 * 1.3 = 172.2$	114	16 ϕ 20	979

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-11.1	338.9	338.9*1.2*1.3=528.7	228	16φ20	891
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Tabella 13 – Sezione 1 Verifica strutturale a pressoflessione. Condizione statica

La verifica è soddisfatta in quanto $M_{sd} < M_{rd}$.

Verifica al taglio

L'armatura al taglio sarà costituita una spirale Ø14 passo 200 mm costante.

STR STATICA - VERIFICA SLU-A1-M1					
Quota da base cordolo (m)	T_{sk} (kN/m)	T_{SLU} (kN)	N_{SLU} (kN)	Armatura	V_{RD} (kN)
-13.7	103.5	103.5*1.2*1.3=161	279	φ14/20cm	602

Tabella 14 – Sezione 1 - Verifica strutturale a taglio. Condizione statica

La verifica è soddisfatta in quanto $V_{sd} < V_{rd}$.

Il valore medio dell'incidenza dell'armatura risulta essere 65.0 kg/m³.

Strutture di supporto: travi di ripartizione

Le caratteristiche della sollecitazione sono determinate modellando gli elementi strutturali oggetto di verifica alla stregua di travi continue su più appoggi; la luce delle campate è data dall'interasse dei tiranti ed il carico, uniformemente distribuito, è determinato ripartendo le reazioni offerte dagli ancoraggi, ottenute dal modello di calcolo dell'opera di sostegno. Definito P_d il massimo tiro di calcolo corrispondente all'i-esimo ordine di tiranti, il suddetto carico è così calcolato: $q_{sd}=P_d/i$ (con i interasse tiranti). Secondo tale modello le massime azioni di calcolo sull'elemento strutturale saranno calcolate, considerando metà del carico su ciascuna trave accoppiata:

$$M_{sd} = \left(\frac{1}{10} q_{sd} l^2 \right) / 2 \quad \text{e} \quad V_{sd} = (0.5 q_{sd} l) / 2$$

Tutte le verifiche sono soddisfatte poiché il momento sollecitante è minore del momento resistente, $M_{sd} < M_{c,Rd}$.

Caratteristiche trave ripartizione		
f_{yk} trave (MPa)	275	S275
Coefficiente di sicurezza γ_{M0}	1.05	-
$W_{plastico}$ travi (cm ³)	481	profilati HEB180(x2)

Tabella 15 – Sezione 1 - Verifica travi ripartizione. Caratteristiche profilati

Ordine tiranti	P_d [kN]	i [m]	α [°]	p [kN/m]	M_{sd} [kNm]	$M_{c,Rd}$ [kNm]	Verifica
1	498	2.4	0	159.6	59.8	126.0	$M_{c,Rd} > M_{sd}$
2	480	2.4	0	153.8	57.6	126.0	$M_{c,Rd} > M_{sd}$

Tabella 16 – Sezione 1 - Verifica travi ripartizione. Condizione statica

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Ordine tiranti	P_d [kN]	i [m]	α [°]	p [kN/m]	V_{sd} [kN]	V_{rd} [kN]	Verifica
1	498	2.4	0	159.6	124.6	306.8	V_{Rd}>V_{sd}
2	480	2.4	0	153.8	120.0	306.8	V_{Rd}>V_{sd}

Tabella 17 – Sezione 1 - Verifica travi ripartizione. Condizione statica

Verifiche HYD

La verifica idraulica viene omessa in quanto la quota della falda è ubicata al di sotto del piano di scavo.

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10.1.2 Sezione 2 trasversale –pk 0+605.00

La sezione fa riferimento alla paratia laterale ed è sostenuta attraverso due ordini di tirantature.

Sono di seguito descritte le principali caratteristiche della struttura e del modello geotecnico per le analisi di verifica. La geometria della struttura di sostegno è illustrata nella figura seguente.

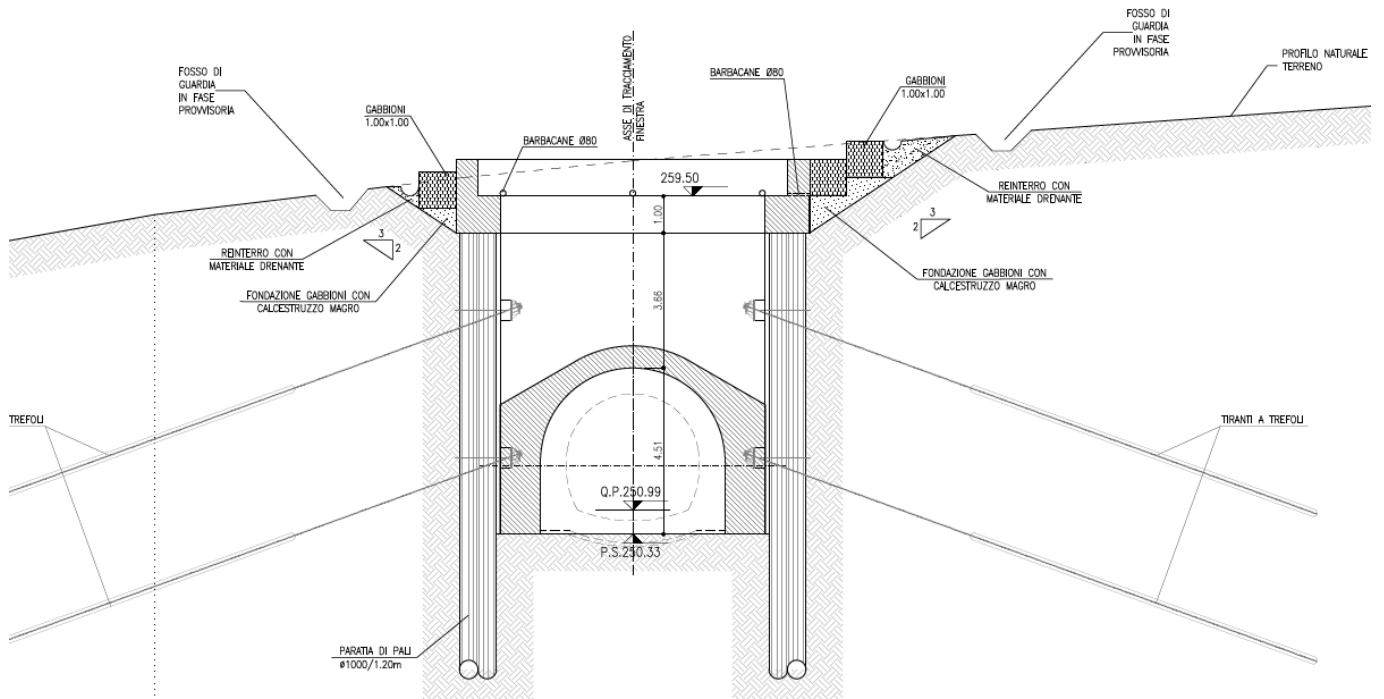


Fig. 26 – Sezione 2 - Geometria di riferimento

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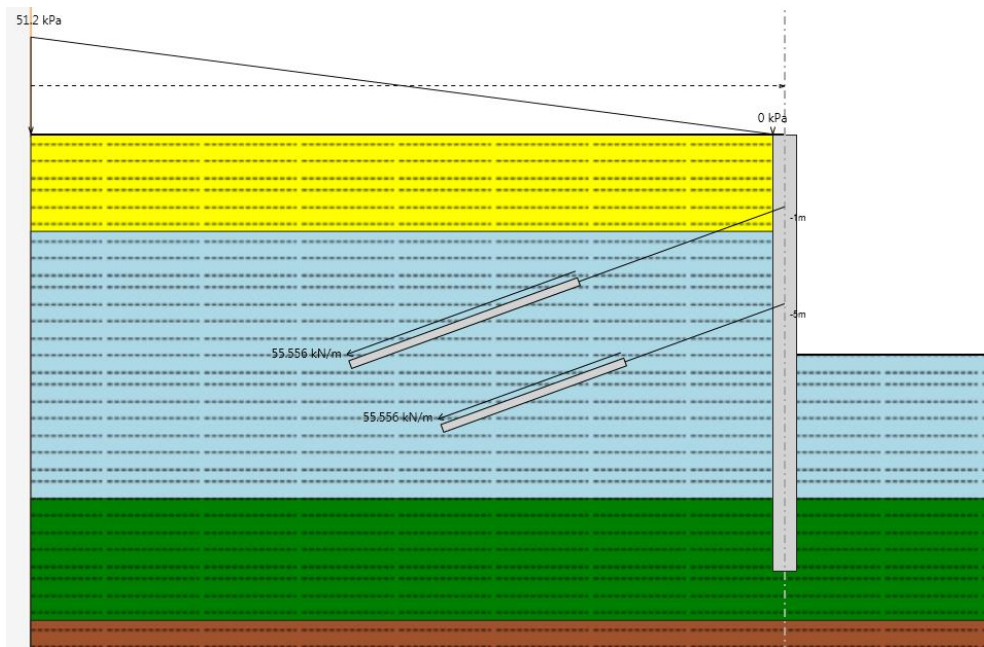


Fig. 27 – Sezione 2 - Modello di calcolo - step finale di calcolo (fase 6)

La stratigrafia di riferimento presenta la seguente sequenza:

- BNA3_1 da p.c. a 4.0m di profondità;
- BNA3_2 da 4.0m a 15.0m di profondità;
- BNA3_3 da 15.0m a 20.0m di profondità;
- BNA3_4 da 20.0m a 30.0m di profondità.

Tipologia struttura di sostegno	Paratia in pali ϕ 1000mm passo 1.2m
Altezza totale paratia	$H_{tot} = 17m$ (veletta+cordolo=2m+pali L=15m)
Altezza libera paratia	$H = 8.1m$ (esclusa la veletta=1m)
Ordini di puntoni	-
Ordini di tiranti (n°)	2 ordini
Passo orizzontale tiranti	3.6m
Passo verticale dei tiranti	4m
Inclinazione iniziale del piano campagna a monte	5° (schematizzato con sovraccarichi dal piano campagna)
Inclinazione iniziale del piano campagna a valle	0°
Sovraccarichi variabili a monte	-
Sovraccarichi variabili a valle	-

Tabella 18 – Sezione 2 - Caratteristiche geometriche della sezione di calcolo

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Terreno	Gruppo coeff. Parziali	Condizione	γ	c_d	φ'_d	δ	E'	E'_{ur}	k_o	K_a	K_p
			(kN/m ³)	(kPa)	(°)	(°)	(Mpa)	(Mpa)	(-)	(-)	(-)
BNA3_1	M1	SLU	20	0	14.0	9.3	15	24	0.758	0.547	1.899
		-									
	M2	SLU		0	14.0	9.3			0.758	0.547	1.899
		-									
BNA3_2	M1	SLU	20	2.5	30.0	20.0	50	80	0.500	0.279	4.633
		-									
	M2	SLU		2.0	24.8	16.5			0.581	0.349	3.372
		-									
BNA3_3	M1	SLU	20	30.0	25.0	16.7	75	120	0.577	0.346	3.413
		-									
	M2	SLU		24.0	20.5	13.6			0.650	0.418	2.647
		-									
BNA3_4	M1	SLU	20	5.0	32.0	21.3	100	160	0.470	0.256	5.283
		-									
	M2	SLU		4.0	26.6	17.7			0.553	0.324	3.742
		-									

γ = peso dell'unità di volume

c'_d = coesione efficace (valore di calcolo)

φ'_d = angolo di resistenza al taglio (valore di calcolo)

δ = angolo d'attrito struttura/terreno

E' = modulo di Young

E'_{ur} = modulo di Young (scarico/ricarico)

k_o = coefficiente di spinta a riposo

K_a = coefficiente di spinta attiva

K_p = coefficiente di resistenza passiva

Tabella 19 – Sezione 2 - Parametri geotecnici di calcolo.

APPALTATORE: Conorzio Soci HIRPINIA AV SALINI IMPREGILO S.P.A. ASTALDI S.P.A.	ITINERARIO NAPOLI – BARI					
PROGETTAZIONE: Mandatara Mandanti ROCKSOIL S.P.A. NET ENGINEERING S.P.A. ALPINA S.P.A.	RADDOPPIO TRATTA APICE – ORSARA I LOTTO FUNZIONALE APICE – HIRPINIA					
PROGETTO ESECUTIVO Relazione geotecnica e di calcolo delle opere di imbocco	COMMESSA IF28	LOTTO 01	CODIFICA E ZZ RB	DOCUMENTO GA1300 001	REV. B	FOGLIO 36 di 42

Il livello di falda è a quota -65m circa dal piano campagna, quindi è ubicata al di sotto del piano scavo.

L'analisi si è articolata nelle seguenti fasi:

- fase 1: geostatica;
- fase 2: scavo sino a – 2.0m dalla base del cordolo;
- fase 3: attivazione del primo ordine di tiranti
- fase 4: scavo sino a – 6.0m dalla base del cordolo
- fase 5: attivazione del secondo ordine di tiranti;
- fase 6: fondo scavo a -7.1m dalla base del cordolo.

10.1.2.1 RISULTATI DELLE ANALISI

I risultati delle analisi sono di seguito descritti in sintesi ed illustrati in maggior dettaglio nell'allegato pertinente.

	SLU GEO		SLU STR		SLE
	Statico	Sismico	Statico	Sismico	(statico)
Spostamento massimo (cm)	10.1	-	6.2	-	6.2
Momento massimo (kNm/m)	-	-	865.2 (-9.0m)	-	665.5 (-9.0m)
Taglio massimo (kN/m)	-	-	217.6 (-6.4)	-	167.4 (-6.4m)
Spinta passiva mobilitata a valle (%)	57.3	-	39.0	-	39.0

Tabella 20 – Sezione 2 - Risultati delle analisi

Verifica del complesso opera-terreno

Per le verifiche di stabilità globale sono stati utilizzati i parametri abbattuti, in accordo a quanto riportato in precedenza per la condizione GEO.

Dato che le fasi di scavo riguardano un tempo limitato e inferiore ai 2 anni, si verifica la stabilità globale dell'opera solo in fase statica.

I coefficienti di sicurezza ottenuti relativamente alla stabilità globale sono riportati nella tabella seguente

Tipo di verifica	FS
Statica	2.0 > 1.10

Tabella 21 – Sezione 2 - Risultati verifica di stabilità globale. Fattore sicurezza minimo

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PROGETTAZIONE: Mandataria Mandanti ROCKSOIL S.P.A NET ENGINEERING S.P.A. ALPINA S.P.A.						
PROGETTO ESECUTIVO Relazione geotecnica e di calcolo delle opere di imbocco	COMMESSA IF28	LOTTO 01	CODIFICA E ZZ RB	DOCUMENTO GA1300 001	REV. B	FOGLIO 37 di 42

Il coefficiente di sicurezza minimo indicato è stato calcolato con il metodo di Morgenstern–Price.

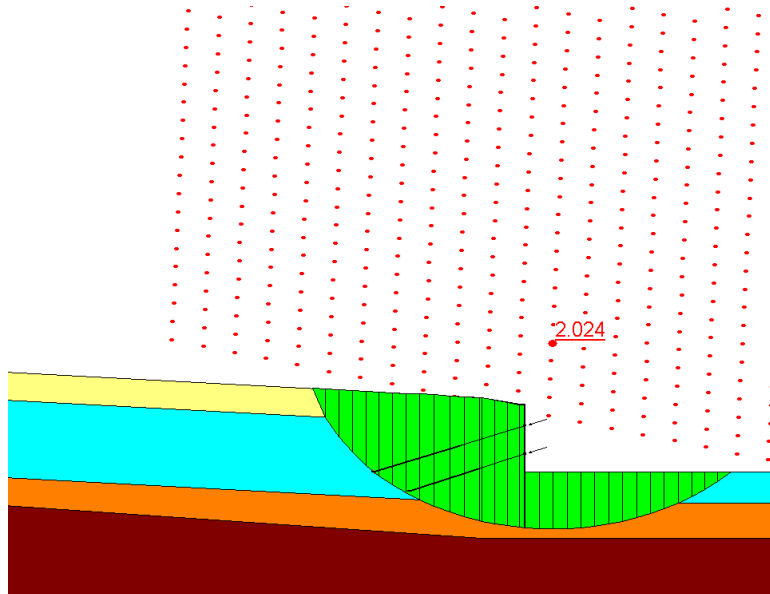


Fig. 28 – Sezione 2 - Risultati verifica di stabilità globale. Superficie critica

Verifica della mobilitazione della spinta passiva

Il grafico seguente riporta l'andamento della mobilitazione della spinta passiva per la condizione GEO. Risulta visibile che la resistenza disponibile risulta superiore a quella mobilitata, da cui la verifica della opera.

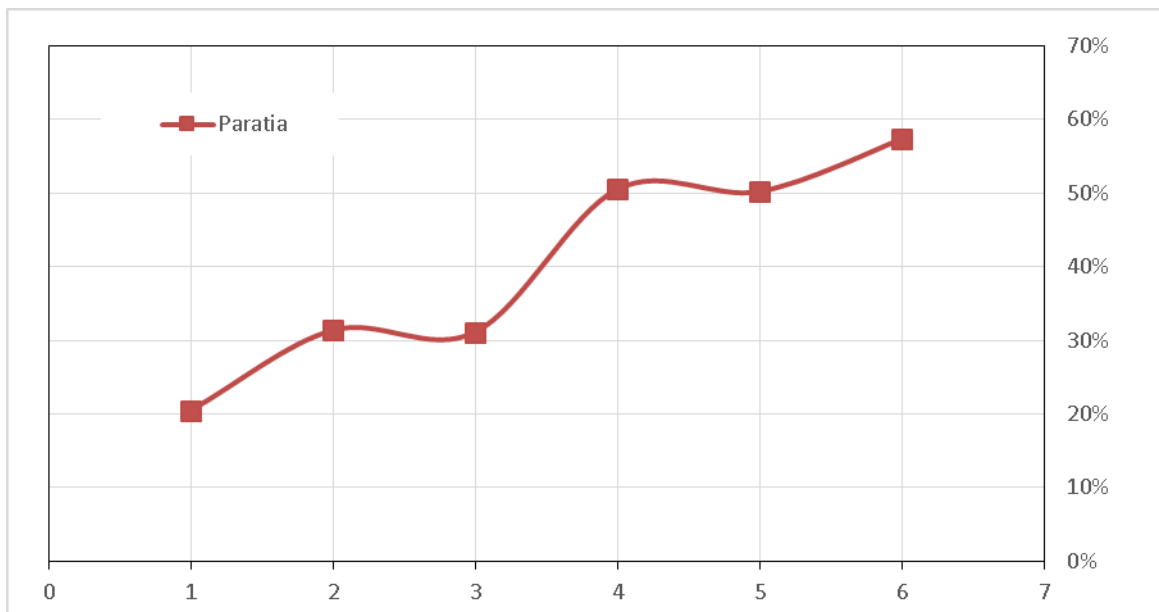


Fig. 29 – Sezione 2 - Risultati mobilitazione spinta passiva per la condizione A2+M2

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PROGETTAZIONE: Mandataria Mandanti ROCKSOIL S.P.A NET ENGINEERING S.P.A. ALPINA S.P.A.	COMMESSA IF28	LOTTO 01	CODIFICA E ZZ RB	DOCUMENTO GA1300 001	REV. B	FOGLIO 38 di 42
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Si evidenzia che la profondità di infissione dell'opera di sostegno garantisce uno spostamento limitato al piede.

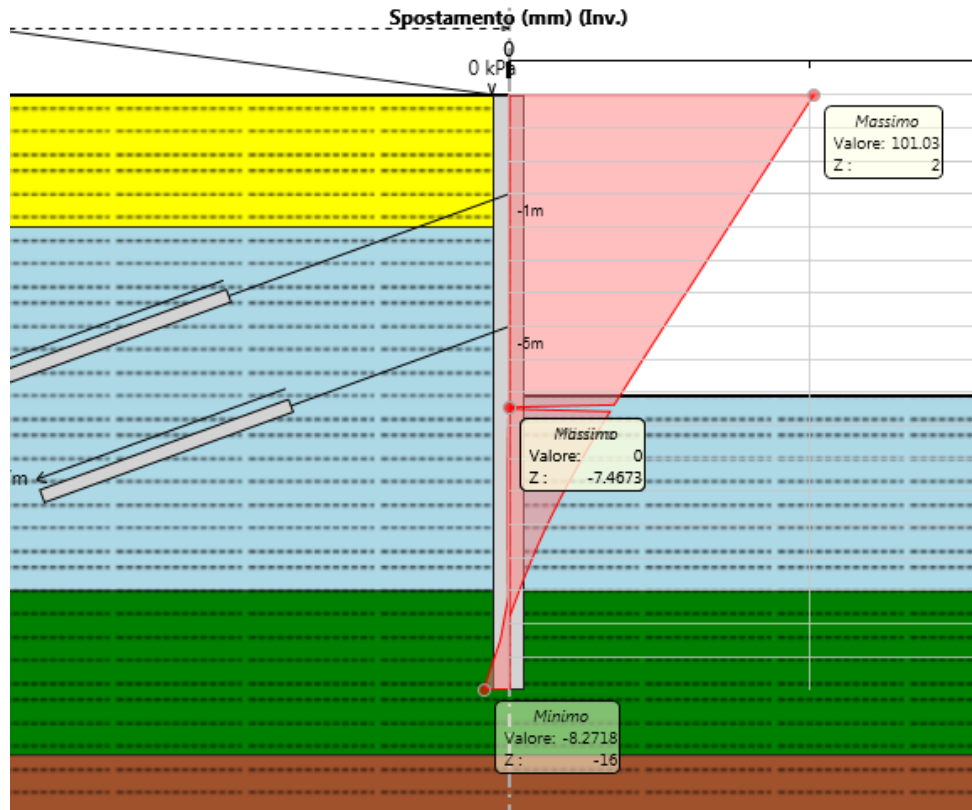


Fig. 30 – Involuppo della deformata dell'opera (SLU) nei vari step di calcolo

Verifica collasso complesso opera- terreno

Per la verifica di collasso del complesso opera-terreno è stato definito un modello di calcolo all'interno del quale sono state imposte delle proprietà geomeccaniche dei terreni ridotte con i coefficienti parziali M2. Nel modello sono state imposte le stesse fasi esecutive riportate precedentemente. La convergenza di tale calcolo indica che la lunghezza assunta per l'opera di sostegno è sufficiente per non innescare un movimento di rotazione intorno al piede.

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PROGETTAZIONE: Mandatara Mandanti ROCKSOIL S.P.A. NET ENGINEERING S.P.A. ALPINA S.P.A.	RADDOPPIO TRATTA APICE – ORSARA I LOTTO FUNZIONALE APICE – HIRPINIA					
PROGETTO ESECUTIVO Relazione geotecnica e di calcolo delle opere di imbocco	COMMESSA IF28	LOTTO 01	CODIFICA E ZZ RB	DOCUMENTO GA1300 001	REV. B	FOGLIO 39 di 42

Strutture di supporto: tiranti

Riassunto caratteristiche

Ordine tiranti	Passo [m]	n. trefoli [kN/m]	Inclinazione [°]	Lunghezza libera [m]	Lunghezza ancoraggio [m]	Pretiro [kN]
1	3.6	3	20	9	10	200
2	3.6	3	20	7	8	200

Tabella 22 – Sezione 2 - Caratteristiche tiranti

Verifica a sfilamento del bulbo di ancoraggio

Ordine tiranti	τ_{lim} [kPa]	α [-]	D [m]	l_b [m]	ξ [-]	R_{ak} [kN]
1	205	1.2	0.14	10	1.8	601
2	205	1.2	0.14	8	1.8	481

Tabella 23 – Sezione 2 - Resistenza a sfilamento tiranti

dove:

- τ_{lim} = tensione di aderenza laterale limite fondazione-terreno;
- α = coefficiente di incremento del diametro di perforazione D dei tiranti che tiene conto della metodologia di iniezione e della natura dei terreni interessati;
- D = diametro di perforazione;
- l_b = lunghezza bulbo di ancoraggio;
- ξ_a = coefficiente di indagine.

Combinazione	Ordine tiranti	Passo [m]	E_k [kN/m]	P_d [kN]	R_{ak} [kN]	R_{ad} [kN]	Verifica
STR Statico	1	3.6	104.8	491	601	501	$R_{ad} > P_d$
	2	3.6	67.7	317	481	401	$R_{ad} > P_d$

Tabella 24 – Sezione 2 - Verifica sfilamento tiranti - fase statica

dove:

- E_k = tiro per metro di profondità
- P_d = E_k moltiplicato per l'interasse orizzontale tra i tiranti e il coefficiente amplificativo per le azioni definito da normativa (1.3 statico; 1.0 sismico)
- R_{ad} = resistenza di sfilamento di progetto
- $R_{a,d} = R_{ak} / \gamma_{Ra,p}$
- con $\gamma_{Ra,p} = 1.2$.
- R_{ak} = resistenza caratteristica scelta il minore tra i valori derivanti dall'applicazione dei coefficienti di correlazione al valor medio e al valor minimo delle resistenza $R_{a,c}$ ottenute dal calcolo come indicato di seguito:

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PROGETTAZIONE: Mandatara Mandanti ROCKSOIL S.P.A. NET ENGINEERING S.P.A. ALPINA S.P.A.	RADDOPPIO TRATTA APICE – ORSARA I LOTTO FUNZIONALE APICE – HIRPINIA					
PROGETTO ESECUTIVO Relazione geotecnica e di calcolo delle opere di imbocco	COMMESSA IF28	LOTTO 01	CODIFICA E ZZ RB	DOCUMENTO GA1300 001	REV. B	FOGLIO 40 di 42

$$R_{ak} = \min \left(\frac{(R_{a,c})_{medio}}{\xi_{a3}}; \frac{(R_{a,c})_{min}}{\xi_{a4}} \right)$$

Verifica della resistenza dell'armatura e della gerarchia delle resistenze

Verifica di resistenza dell'armatura	
f _{p(1)k} (trefoli)	1670 Mpa
Coefficiente di sicurezza sul materiale	1.15
Area singolo trefolo (mm ²)	139 mm ²

Tabella 25 – Sezione 2 - Verifica armatura tiranti. Caratteristiche trefoli

Ordine tiranti	n.ro trefoli	R _{pk} [KN]	P _d [KN]	Verifica	R _{ak} [KN]	Verifica
1	3	606	491	R _{pk} >P _d	601	R _{pk} >R _{ak}
2	3	606	317	R _{pk} >P _d	481	R _{pk} >R _{ak}

Tabella 26 – Sezione 2 - Verifica armatura tiranti. Condizione statica

La verifica di resistenza dell'armatura è soddisfatta poiché P_d< R_{pk}.

La verifica della gerarchia delle resistenze è soddisfatta poiché la resistenza caratteristica limite di snervamento del tratto libero è maggiore della resistenza a sfilamento della fondazione del tirante R_{pk}> R_{ak}.

Verifiche SLU STR

Nelle verifiche si considerano le sollecitazioni massime sulla struttura secondo le varie analisi.

Nella verifica a presso-flessione si è considerato il peso proprio del palo valutato alla corrispondente quota di verifica.

Verifica a presso-flessione

STR STATICA - VERIFICA SLU-A1-M1					
Quota da base cordolo (m)	M _{sk} (kNm/m)	M _{sd} (kNm)	N _{sd} (kN)	Armatura	M _{RD} (kNm)
-4.0	263.2	263.2*1.2*1.3=411	88	20φ20	1164.4
-9.0	665.5	665.5*1.2*1.3=1038	187	20φ20	1153

Tabella 27 – Sezione 2 - Verifica strutturale a pressoflessione. Condizione statica

La verifica è soddisfatta in quanto M_{sd}< M_{rd}.

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PROGETTAZIONE: Mandatara Mandanti ROCKSOIL S.P.A. NET ENGINEERING S.P.A. ALPINA S.P.A.	RADDOPPIO TRATTA APICE – ORSARA I LOTTO FUNZIONALE APICE – HIRPINIA					
PROGETTO ESECUTIVO Relazione geotecnica e di calcolo delle opere di imbocco	COMMESSA IF28	LOTTO 01	CODIFICA E ZZ RB	DOCUMENTO GA1300 001	REV. B	FOGLIO 41 di 42

Verifica al taglio

L'armatura al taglio sarà costituita una spirale $\varnothing 14$ passo 200 mm costante.

STR STATICA - VERIFICA SLU-A1-M1					
Quota da base cordolo (m)	T_{sk} (kN/m)	T_{SLU} (kN)	N_{SLU} (kN)	Armatura	V_{RD} (kN)
-6.4	167.4	$167.4 \cdot 1.2 \cdot 1.3 = 261$	135	$\varnothing 14/20\text{cm}$	602

Tabella 28 – Sezione 2 - Verifica strutturale a taglio. Condizione statica

La verifica è soddisfatta in quanto $V_{sd} < V_{rd}$.

Il valore medio dell'incidenza dell'armatura risulta essere 80 kg/m^3 .

Strutture di supporto: travi di ripartizione

Le caratteristiche della sollecitazione sono determinate modellando gli elementi strutturali oggetto di verifica alla stregua di travi continue su più appoggi; la luce delle campate è data dall'interasse dei tiranti ed il carico, uniformemente distribuito, è determinato ripartendo le reazioni offerte dagli ancoraggi, ottenute dal modello di calcolo dell'opera di sostegno. Definito P_d il massimo tiro di calcolo corrispondente all'i-esimo ordine di tiranti, il suddetto carico è così calcolato: $q_{sd} = P_d / i$ (con i interasse tiranti). Secondo tale modello le massime azioni di calcolo sull'elemento strutturale saranno calcolate, considerando metà del carico su ciascuna trave accoppiata:

$$M_{sd} = \left(\frac{1}{10} q_{sd} l^2 \right) / 2 \quad \text{e} \quad V_{sd} = (0.5 q_{sd} l) / 2$$

Tutte le verifiche sono soddisfatte poiché il momento sollecitante è minore del momento resistente, $M_{sd} < M_{c,Rd}$.

Caratteristiche trave ripartizione		
f_{yk} trave (MPa)	275	S275
Coefficiente di sicurezza γ_{M0}	1.05	-
$W_{plastico}$ travi (cm^3)	481	profilati HEB180(x2)

Tabella 29 – Sezione 2 – Travi di ripartizione. Caratteristiche profilati

Ordine tiranti	P_d [kN]	i [m]	α [°]	p [kN/m]	M_{sd} [kNm]	$M_{c,Rd}$ [kNm]	Verifica
1	491	3.6	20	104.9	88.3	126.0	$M_{c,Rd} > M_{sd}$
2	317	3.6	20	67.7	57.0	126.0	$M_{c,Rd} > M_{sd}$

Tabella 30 – Sezione 2 - Verifica travi ripartizione. Condizione statica

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PROGETTAZIONE: <u>Mandatario</u> <u>Mandanti</u> ROCKSOIL S.P.A. NET ENGINEERING S.P.A. ALPINA S.P.A.						
PROGETTO ESECUTIVO Relazione geotecnica e di calcolo delle opere di imbocco	COMMESSA IF28	LOTTO 01	CODIFICA E ZZ RB	DOCUMENTO GA1300 001	REV. B	FOGLIO 42 di 42

Ordine tiranti	P_d [kN]	i [m]	α [°]	p [kN/m]	V_{sd} [kN]	V_{rd} [kN]	Verifica
1	491	3.6	20	104.9	122.6	306.8	V_{Rd}>V_{sd}
2	317	3.6	20	67.7	79.2	306.8	V_{Rd}>V_{sd}

Tabella 31 – Sezione 2 - Verifica travi ripartizione. Condizione statica

Verifiche HYD

La verifica idraulica viene omessa in quanto la quota della falda è ubicata al di sotto del piano di scavo.

SEZIONE 1

ANALISI DI STABILITÀ GLOBALE – BACK ANALYSIS

1 PROJECT SETTINGS

Length(L) Units: [meters](#)
Time(t) Units: [Seconds](#)
Force(F) Units: [kN](#)
Pressure(p) Units: [kPa](#)
Strength Units: [kPa](#)
Unit Weight of Water: [9.807 kN/m³](#)
View: [2D](#)

2 ANALYSIS SETTINGS

2.1 SLOPE/W ANALYSIS

Kind: [SLOPE/W](#)
Method: [Morgenstern-Price](#)
Settings
 Apply Phreatic Correction: [No](#)
 Side Function
 Interslice force function option: [Half-Sine](#)
 PWP Conditions Source: [Piezometric Line](#)
 Use Staged Rapid Drawdown: [No](#)
SlipSurface
 Direction of movement: [Left to Right](#)
 Allow Passive Mode: [No](#)
 Slip Surface Option: [Fully-Specified](#)
 Critical slip surfaces saved: [1](#)
 Optimize Critical Slip Surface Location: [No](#)
 Tension Crack
 Tension Crack Option: [\(none\)](#)
FOS Distribution
 FOS Calculation Option: [Constant](#)
Advanced
 Number of Slices: [30](#)
 Optimization Tolerance: [0.01](#)
 Minimum Slip Surface Depth: [0.1 m](#)
 Minimum Slice Width: [0.05 m](#)
 Optimization Maximum Iterations: [2000](#)
 Optimization Convergence Tolerance: [1e-007](#)
 Starting Optimization Points: [8](#)
 Ending Optimization Points: [16](#)
 Complete Passes per Insertion: [1](#)

3 MATERIALS

3.1 FRANA

Model: [Mohr-Coulomb](#)
Unit Weight: [20 kN/m³](#)
Cohesion: [0 kPa](#)
Phi: [14 °](#)
Phi-B: [0 °](#)
Pore Water Pressure
Piezometric Line: [1](#)

3.2 BNA3_2

Model: [Mohr-Coulomb](#)
Unit Weight: [21 kN/m³](#)
Cohesion: [12 kPa](#)
Phi: [30 °](#)
Phi-B: [0 °](#)
Pore Water Pressure
Piezometric Line: [1](#)

3.3 BNA3_3

Model: [Mohr-Coulomb](#)
Unit Weight: [20 kN/m³](#)
Cohesion: [2 kPa](#)
Phi: [25.7 °](#)
Phi-B: [0 °](#)
Pore Water Pressure
Piezometric Line: [1](#)

3.4 BNA3_4

Model: [Mohr-Coulomb](#)
Unit Weight: [21 kN/m³](#)
Cohesion: [12 kPa](#)
Phi: [23 °](#)
Phi-B: [0 °](#)
Pore Water Pressure
Piezometric Line: [1](#)

4 SLIP SURFACE LIMITS

Left Coordinate: [\(0, 115.5482\) m](#)
Right Coordinate: [\(455.7614, 20.6945\) m](#)

5 FULLY SPECIFIED SLIP SURFACES

5.1 FULLY SPECIFIED SLIP SURFACE 1

	X (m)	Y (m)
	6.3784	114.6945

	11.7108	110.6945
	13.5166	107.9581
	49.5078	99.065
	78.4914	91.0917
	134.4733	78.993
	209.0758	64.8067
	278.2735	52.7779
	332.1953	44.0177
	362.76	35.5288
	395.0438	28.7958
	404.6638	27.3347
	416.8	28.6945

5.2 FULLY SPECIFIED SLIP SURFACE 2

	X (m)	Y (m)
	311.15167	51.58627
	316.01092	47.188501
	322.06657	45.663226
	332.1953	44.0177
	362.76	35.5288
	395.0438	28.7958
	404.6638	27.3347
	416.8	28.6945

6 PIEZOMETRIC LINES

6.1 PIEZOMETRIC LINE 1

6.1.1 Coordinates

	X (m)	Y (m)
	0	112.5482
	6.3784	111.6945

49.5078	99.6945
78.4914	91.6945
115.1028	85.6945
153.0104	77.6945
209.0758	67.6945
257.2898	57.6945
305.3714	49.6945
311.15167	48.58627
336.666	43.6945
367.901	35.6945
395.0438	31.6945
416.8	25.6945
464.0408	15.807139

7 REGIONS

	Materia l	Points	Area (m ²)
Regio n 1	BNA3_3	26,33,34,27	2278.807
Regio n 2	BNA3_4	27,34,35,28	4557.614
Regio n 3	BNA3_4	28,35,30,31,32,29	44664.61 7
Regio n 4	FRANA	16,3,2,4,5,6,7,8,9,10,37,11,12,13,14,25,24,23,22,36,21,20,19,18,1 7	1881.296 7
Regio n 5	BNA3_2	1,2,3,16,17,18,19,20,21,36,22,23,24,25,14,15,33,26	4487.326

8 POINTS

	X (m)	Y (m)
Point 1	0	115.5482
Point 2	6.3784	114.6945

Point 3	11.7108	110.6945
Point 4	49.5078	102.6945
Point 5	78.4914	94.6945
Point 6	115.1028	88.6945
Point 7	153.0104	80.6945
Point 8	209.0758	70.6945
Point 9	257.2898	60.6945
Point 10	305.3714	52.6945
Point 11	336.666	46.6945
Point 12	367.901	38.6945
Point 13	395.0438	34.6945
Point 14	416.8	28.6945
Point 15	455.7614	20.6945
Point 16	13.5166	107.9581
Point 17	49.5078	99.065
Point 18	78.4914	91.0917
Point 19	134.4733	78.993
Point 20	209.0758	64.8067
Point 21	278.2735	52.7779
Point 22	332.1953	44.0177
Point 23	362.76	35.5288
Point 24	395.0438	28.7958
Point 25	404.6638	27.3347
Point 26	0	101
Point 27	0	96
Point 28	0	86
Point 29	0	56
Point 30	455.7614	-40
Point 31	455.7614	-60

Point 32	0	-60
Point 33	455.7614	5
Point 34	455.7614	0
Point 35	455.7614	-10
Point 36	322.06657	45.663226
Point 37	311.15167	51.58627

9 CRITICAL SLIP SURFACES

	Number	FOS	Center (m)	Radius (m)	Entry (m)	Exit (m)
1	1	1.005	(225.105, 136.195)	171.857	(6.3784, 114.695)	(416.8, 28.6945)

9.1 SLICES OF SLIP SURFACE: 1

	Slip Surface	X (m)	Y (m)	PWP (kPa)	Base Normal Stress (kPa)	Frictional Strength (kPa)	Cohesive Strength (kPa)
1	1	9.0446	112.6945	- 17.082413	21.116365	5.2649011	0
2	1	11.906275	110.3983	- 2.3715378	39.570714	9.8660871	0
3	1	12.809175	109.0301	8.5827971	57.744196	12.257313	0
4	1	19.515135	106.4759	15.333536	86.390222	17.716422	0
5	1	31.5122	103.51155	11.669477	79.02569	16.79379	0
6	1	43.509265	100.5472	8.0054993	71.732368	15.888893	0
7	1	56.7537	97.071675	6.1080521	67.344592	15.267984	0
8	1	71.2455	93.085025	5.9771153	66.958702	15.204417	0
9	1	84.5933	89.77297	9.0376475	74.306699	16.273402	0
10	1	96.7971	87.13551	15.288874	86.572077	17.772899	0
11	1	109.0009	84.49805	21.540901	98.778188	19.257418	0
12	1	124.78805	81.08616	25.148718	105.79426	20.107192	0
13	1	143.74185	77.230505	23.733285	104.16402	20.053634	0
14	1	160.01855	74.135345	22.645842	102.1481	19.822138	0
15	1	174.0349	71.47002	24.267006	105.42126	20.234029	0

16	1	188.0513	68.804695	25.888872	108.69443	20.645745	0
17	1	202.06765	66.139365	27.510037	111.9676	21.057636	0
18	1	215.10255	63.759055	26.33588	110.56656	21.001066	0
19	1	227.15605	61.663765	22.367515	102.826	20.060553	0
20	1	239.20955	59.568475	18.398334	95.060919	19.114129	0
21	1	251.26305	57.47319	14.429152	87.279492	18.16363	0
22	1	262.53575	55.513635	12.828206	84.131281	17.777853	0
23	1	273.0276	53.68981	13.594461	85.635621	17.961879	0
24	1	285.048	51.67731	13.717172	86.263231	18.087764	0
25	1	298.59695	49.47613	13.195557	85.141321	17.938094	0
26	1	308.26155	47.906005	12.105592	82.898826	17.650736	0
27	1	316.60915	46.54985	9.7097124	78.057515	17.041021	0
28	1	327.13095	44.840465	6.6899381	71.931768	16.266615	0
29	1	334.43065	43.396865	7.1218824	69.718799	15.607164	0
30	1	343.1895	40.96422	10.390034	76.15469	16.39697	0
31	1	356.2365	37.340605	13.155738	81.745177	17.101268	0
32	1	365.3305	34.992705	13.339132	83.968439	17.609864	0
33	1	374.6867	33.04141	16.21174	89.653267	18.311029	0
34	1	388.2581	30.211005	24.35548	105.82533	20.312716	0
35	1	399.8538	28.06525	22.58301	103.6245	20.205914	0
36	1	406.8642	27.581245	8.3690162	79.912238	17.837729	0
37	1	412.9323	28.261145	- 14.710071	31.044031	7.7401462	0

SEZIONE 1

ANALISI DI STABILITÀ GLOBALE – FORZA STABILIZZANTE

1 PROJECT SETTINGS

Length(L) Units: [meters](#)
Time(t) Units: [Seconds](#)
Force(F) Units: [kN](#)
Pressure(p) Units: [kPa](#)
Strength Units: [kPa](#)
Unit Weight of Water: [9.807 kN/m³](#)
View: [2D](#)

2 ANALYSIS SETTINGS

2.1 SLOPE/W ANALYSIS

Kind: [SLOPE/W](#)
Method: [Morgenstern-Price](#)
Settings
 Apply Phreatic Correction: [No](#)
 Side Function
 Interslice force function option: [Half-Sine](#)
 PWP Conditions Source: [Piezometric Line](#)
 Use Staged Rapid Drawdown: [No](#)
SlipSurface
 Direction of movement: [Left to Right](#)
 Allow Passive Mode: [No](#)
 Slip Surface Option: [Fully-Specified](#)
 Critical slip surfaces saved: [1](#)
 Optimize Critical Slip Surface Location: [No](#)
 Tension Crack
 Tension Crack Option: [\(none\)](#)
FOS Distribution
 FOS Calculation Option: [Constant](#)
Advanced
 Number of Slices: [30](#)
 Optimization Tolerance: [0.01](#)
 Minimum Slip Surface Depth: [0.1 m](#)
 Minimum Slice Width: [0.05 m](#)
 Optimization Maximum Iterations: [2000](#)
 Optimization Convergence Tolerance: [1e-007](#)
 Starting Optimization Points: [8](#)
 Ending Optimization Points: [16](#)
 Complete Passes per Insertion: [1](#)

3 MATERIALS

3.1 FRANA

Model: [Mohr-Coulomb](#)
Unit Weight: [20 kN/m³](#)
Cohesion: [0 kPa](#)
Phi: [14 °](#)
Phi-B: [0 °](#)
Pore Water Pressure
Piezometric Line: [1](#)

3.2 BNA3_2

Model: [Mohr-Coulomb](#)
Unit Weight: [21 kN/m³](#)
Cohesion: [1.2 kPa](#)
Phi: [3 °](#)
Phi-B: [0 °](#)
Pore Water Pressure
Piezometric Line: [1](#)

3.3 BNA3_3

Model: [Mohr-Coulomb](#)
Unit Weight: [20 kN/m³](#)
Cohesion: [2 kPa](#)
Phi: [25.7 °](#)
Phi-B: [0 °](#)
Pore Water Pressure
Piezometric Line: [1](#)

3.4 BNA3_4

Model: [Mohr-Coulomb](#)
Unit Weight: [21 kN/m³](#)
Cohesion: [12 kPa](#)
Phi: [23 °](#)
Phi-B: [0 °](#)
Pore Water Pressure
Piezometric Line: [1](#)

4 SLIP SURFACE LIMITS

Left Coordinate: [\(0, 115.5482\) m](#)
Right Coordinate: [\(455.7614, 20.6945\) m](#)

5 FULLY SPECIFIED SLIP SURFACES

5.1 FULLY SPECIFIED SLIP SURFACE 1

	X (m)	Y (m)
	6.3784	114.6945

	11.7108	110.6945
	13.5166	107.9581
	49.5078	99.065
	78.4914	91.0917
	134.4733	78.993
	209.0758	64.8067
	278.2735	52.7779
	322.06657	45.663226
	326.67176	44.930498
	327.12795	44.968983

6 PIEZOMETRIC LINES

6.1 PIEZOMETRIC LINE 1

6.1.1 Coordinates

	X (m)	Y (m)
	0	55
	455.7614	-40

7 REGIONS

	Material	Points	Area (m ²)
Region 1	BNA3_3	26,33,34,27	2278.807
Region 2	BNA3_4	27,34,35,28	4557.614
Region 3	BNA3_4	28,35,30,31,32,29	44664.617
Region 4	BNA3_2	1,2,3,16,17,18,19,20,21,36,39,22,23,24,25,14,15,33,26	4487.4042
Region 5	FRANA	38,40,39,36,21,20,19,18,17,16,3,2,4,5,6,7,8,9,10,37	1495.4728

8 POINTS

	X (m)	Y (m)
Point 1	0	115.5482

Point 2	6.3784	114.6945
Point 3	11.7108	110.6945
Point 4	49.5078	102.6945
Point 5	78.4914	94.6945
Point 6	115.1028	88.6945
Point 7	153.0104	80.6945
Point 8	209.0758	70.6945
Point 9	257.2898	60.6945
Point 10	305.3714	52.6945
Point 11	336.666	46.6945
Point 12	367.901	38.6945
Point 13	395.0438	34.6945
Point 14	416.8	28.6945
Point 15	455.7614	20.6945
Point 16	13.5166	107.9581
Point 17	49.5078	99.065
Point 18	78.4914	91.0917
Point 19	134.4733	78.993
Point 20	209.0758	64.8067
Point 21	278.2735	52.7779
Point 22	332.1953	44.0177
Point 23	362.76	35.5288
Point 24	395.0438	28.7958
Point 25	404.6638	27.3347
Point 26	0	101
Point 27	0	96
Point 28	0	86
Point 29	0	56
Point 30	455.7614	-40

Point 31	455.7614	-60
Point 32	0	-60
Point 33	455.7614	5
Point 34	455.7614	0
Point 35	455.7614	-10
Point 36	322.06657	45.663226
Point 37	311.15167	51.58627
Point 38	326.67176	48.61066
Point 39	326.67176	44.930498
Point 40	326.67176	46.999121

9 CRITICAL SLIP SURFACES

	Number	FOS	Center (m)	Radius (m)	Entry (m)	Exit (m)
1	1	1.205	(263.184, 93.978)	135.279	(6.3784, 114.695)	(326.672, 48.6107)

9.1 SLICES OF SLIP SURFACE: 1

	Slip Surface	X (m)	Y (m)	PWP (kPa)	Base Normal Stress (kPa)	Frictional Strength (kPa)	Cohesive Strength (kPa)
1	1	9.0446	112.6945	-584.30044	21.69843	5.4100263	0
2	1	12.6137	109.3263	-558.57248	54.60669	13.614977	0
3	1	19.515135	106.4759	-544.71317	86.414498	21.545554	0
4	1	31.5122	103.51155	-540.17356	79.186721	19.743467	0
5	1	43.509265	100.5472	-535.62585	71.987266	17.948441	0
6	1	54.3384	97.736115	-530.19378	67.752749	16.892658	0
7	1	63.9996	95.07835	-523.87648	67.482293	16.825225	0
8	1	73.6608	92.420585	-517.55919	67.228803	16.762023	0

9	1	84.5933	89.77297	- 513.94612	74.444458	18.561088	0
10	1	96.7971	87.13551	- 513.02506	86.676198	21.610803	0
11	1	109.0009	84.49805	- 512.10399	98.922354	24.664113	0
12	1	119.94545	82.13274	- 511.28017	105.54198	26.314572	0
13	1	129.6307	80.03958	- 510.55354	106.54109	26.563677	0
14	1	139.1076	78.111755	-511.0212	106.22559	26.485015	0
15	1	148.37615	76.34926	- 512.68528	102.57627	25.575137	0
16	1	158.61695	74.40188	- 514.51681	102.06755	25.448298	0
17	1	169.83005	72.26962	- 516.53188	104.71342	26.107987	0
18	1	181.0431	70.13736	- 518.53818	107.34177	26.763308	0
19	1	192.25615	68.005095	- 520.55325	109.95259	27.414261	0
20	1	203.46925	65.87283	- 522.55956	112.55466	28.063028	0
21	1	213.8972	63.968585	-525.2055	111.38803	27.772155	0
22	1	223.54	62.292355	- 528.47501	105.09423	26.202934	0
23	1	233.1828	60.616125	- 531.74452	98.796341	24.632694	0
24	1	242.8256	58.939895	- 535.02424	92.488235	23.059907	0
25	1	252.4684	57.263665	- 538.29375	86.175021	21.485846	0
26	1	262.53575	55.513635	- 541.71256	83.747215	20.880526	0
27	1	273.0276	53.68981	- 545.27152	85.199907	21.242723	0

28	1	282.7898	52.044175	- 549.09492	85.804277	21.393409	0
29	1	291.82245	50.576725	- 553.16002	85.019668	21.197784	0
30	1	300.8551	49.10927	- 557.23605	84.229596	21.000797	0
31	1	308.26155	47.906005	- 560.58226	82.15942	20.484644	0
32	1	316.60915	46.54985	- 564.34256	77.331344	19.28087	0
33	1	324.3692	45.296865	- 567.92485	72.747478	18.137983	0

SEZIONE 1

ANALISI DI STABILITÀ GLOBALE – FASE STATICA

1 PROJECT SETTINGS

Length(L) Units: [meters](#)
Time(t) Units: [Seconds](#)
Force(F) Units: [kN](#)
Pressure(p) Units: [kPa](#)
Strength Units: [kPa](#)
Unit Weight of Water: [9.807 kN/m³](#)
View: [2D](#)

2 ANALYSIS SETTINGS

2.1 SLOPE/W ANALYSIS

Kind: [SLOPE/W](#)
Method: [Morgenstern-Price](#)
Settings
 Apply Phreatic Correction: [No](#)
 Side Function
 Interslice force function option: [Half-Sine](#)
 PWP Conditions Source: [Piezometric Line](#)
 Use Staged Rapid Drawdown: [No](#)
SlipSurface
 Direction of movement: [Left to Right](#)
 Allow Passive Mode: [No](#)
 Slip Surface Option: [Grid and Radius](#)
 Critical slip surfaces saved: [1](#)
 Optimize Critical Slip Surface Location: [No](#)
 Tension Crack
 Tension Crack Option: [\(none\)](#)
FOS Distribution
 FOS Calculation Option: [Constant](#)
Advanced
 Number of Slices: [30](#)
 Optimization Tolerance: [0.01](#)
 Minimum Slip Surface Depth: [0.1 m](#)
 Minimum Slice Width: [0.05 m](#)
 Optimization Maximum Iterations: [2000](#)
 Optimization Convergence Tolerance: [1e-007](#)
 Starting Optimization Points: [8](#)
 Ending Optimization Points: [16](#)
 Complete Passes per Insertion: [1](#)

3 MATERIALS

3.1 FRANA

Model: [Mohr-Coulomb](#)
Unit Weight: [20 kN/m³](#)
Cohesion: [0 kPa](#)
Phi: [14 °](#)
Phi-B: [0 °](#)
Pore Water Pressure
Piezometric Line: [1](#)

3.2 BNA3_2

Model: [Mohr-Coulomb](#)
Unit Weight: [20 kN/m³](#)
Cohesion: [2 kPa](#)
Phi: [24.8 °](#)
Phi-B: [0 °](#)
Pore Water Pressure
Piezometric Line: [1](#)

3.3 BNA3_3

Model: [Mohr-Coulomb](#)
Unit Weight: [20 kN/m³](#)
Cohesion: [24 kPa](#)
Phi: [20.5 °](#)
Phi-B: [0 °](#)
Pore Water Pressure
Piezometric Line: [1](#)

3.4 BNA3_4

Model: [Mohr-Coulomb](#)
Unit Weight: [20 kN/m³](#)
Cohesion: [4 kPa](#)
Phi: [26.6 °](#)
Phi-B: [0 °](#)
Pore Water Pressure
Piezometric Line: [1](#)

4 SLIP SURFACE GRID

Upper Left: [\(33.678753, 147.08796\) m](#)
Lower Left: [\(30.812699, 69.337044\) m](#)
Lower Right: [\(131.12461, 42.366736\) m](#)
Grid Horizontal Increment: [30](#)
Grid Vertical Increment: [30](#)
Left Projection Angle: [0 °](#)
Right Projection Angle: [0 °](#)

5 SLIP SURFACE RADIUS

Upper Left Coordinate: [\(80.958433, 34.754316\) m](#)

Upper Right Coordinate: (80.958433, 34.754316) m
Lower Left Coordinate: (80.958433, 34.754316) m
Lower Right Coordinate: (80.958433, 34.754316) m
Number of Increments: 0
Left Projection: No
Left Projection Angle: 135 °
Right Projection: No
Right Projection Angle: 45 °
UsePoints: 0

6 SLIP SURFACE LIMITS

Left Coordinate: (0, 66.038) m
Right Coordinate: (160.343, 42.258) m

7 PIEZOMETRIC LINES

7.1 PIEZOMETRIC LINE 1

7.1.1 Coordinates

	X (m)	Y (m)
	0	1
	82.343184	1
	160.343	1
	160.343	15.1

8 REINFORCEMENTS

8.1 REINFORCEMENT 1

Type: Anchor
Outside Point: (80.958, 44.658) m
Inside Point: (61.96, 44.658) m
Slip Surface Intersection: (59.511, 44.658) m
Total Length: 18.998 m
Reinforcement Direction: 0 °
Applied Load Option: Variable
F of S Dependent: No
Bond Length: 10 m
Bond Diameter: 0.14 m
Bond Safety Factor: 2.16
Bond Skin Friction: 200 kPa
Bond Resistance: 16.968479 kN/m
Anchor Spacing: 2.4 m
Bar Capacity: 10000 kN
Bar Safety Factor: 1

Bar Load: 4166.6667 kN
 Load Distribution: Conc. in 1 slice
 Shear Capacity: 0 kN
 Shear Safety Factor: 1
 Shear Option: Parallel to Slip
 Shear Load: 0 kN
 Applied Load: 169.68479 kN
 Anchor Load Used: 0 kN
 Resisting Force Used: 16.968 kN/m
 Available Bond Length: 0 m
 Required Bond Length: 0 m
 Governing Component: Bond

8.2 REINFORCEMENT 2

Type: Anchor
 Outside Point: (80.96, 48.658) m
 Inside Point: (58.96, 48.658) m
 Slip Surface Intersection: (56.609, 48.658) m
 Total Length: 22 m
 Reinforcement Direction: 0 °
 Applied Load Option: Variable
 F of S Dependent: No
 Bond Length: 10 m
 Bond Diameter: 0.14 m
 Bond Safety Factor: 2.16
 Bond Skin Friction: 200 kPa
 Bond Resistance: 16.968479 kN/m
 Anchor Spacing: 2.4 m
 Bar Capacity: 10000 kN
 Bar Safety Factor: 1
 Bar Load: 4166.6667 kN
 Load Distribution: Conc. in 1 slice
 Shear Capacity: 0 kN
 Shear Safety Factor: 1
 Shear Option: Parallel to Slip
 Shear Load: 0 kN
 Applied Load: 169.68479 kN
 Anchor Load Used: 0 kN
 Resisting Force Used: 16.968 kN/m
 Available Bond Length: 0 m
 Required Bond Length: 0 m
 Governing Component: Bond

9 REGIONS

	Material	Points	Area (m ²)
Region 1	FRANA	1,2,3,4,5,6	337.19329
Region 2	BNA3_4	20,16,17,18,19	3406.2951
Region 3	BNA3_4	15,14,13,18,17,16	470.99092

Region 4	BNA3_4	10,11,12,13,14,15	1211.8856
Region 5	BNA3_3	7,8,24,12,11,10	801.715
Region 6	FRANA	29,22,23	192.73926
Region 7	BNA3_2	6,5,28,27,21,29,23,24,8,7	1757.6632

10 POINTS

	X (m)	Y (m)
Point 1	0	66.038
Point 2	75.432	54.043
Point 3	80.359	52.8
Point 4	80.96	52.8
Point 5	80.96	48.8
Point 6	0	62.038
Point 7	0	51.038
Point 8	80.96	37.8
Point 9	80.96	34.758
Point 10	0	46.038
Point 11	80.96	32.8
Point 12	160.343	15.014
Point 13	160.343	6.014
Point 14	80.96	25.674
Point 15	0	39.038
Point 16	0	36.117
Point 17	80.973	22.671
Point 18	160.343	3.187
Point 19	160.343	0
Point 20	0	0
Point 21	80.96	42.258
Point 22	160.343	42.258

Point 23	160.343	35.014
Point 24	160.343	20.014
Point 25	58.96	48.658
Point 26	61.96	44.658
Point 27	80.96	44.658
Point 28	80.96	48.658
Point 29	107.12951	42.258

11 CRITICAL SLIP SURFACES

	Number	FOS	Center (m)	Radius (m)	Entry (m)	Exit (m)
1	109	1.750	(81.255, 63.627)	28.874	(53.0155, 57.6076)	(100.674, 42.258)

11.1 SLICES OF SLIP SURFACE: 109

	Slip Surface	X (m)	Y (m)	PWP (kPa)	Base Normal Stress (kPa)	Frictional Strength (kPa)	Cohesive Strength (kPa)
1	109	53.68192	55.37948	- 533.30696	26.964186	6.7229266	0
2	109	55.138875	51.455215	- 494.81948	65.807597	30.407379	2
3	109	56.719865	48.47874	- 465.63496	103.61732	47.877923	2
4	109	58.300855	46.15958	- 442.86091	133.8848	61.863461	2
5	109	59.88184	44.24888	- 424.14329	159.75155	73.815578	2
6	109	61.462825	42.63178	- 408.28368	182.89691	84.510238	2
7	109	63.043815	41.24342	- 394.66951	204.3607	94.427898	2
8	109	64.662715	40.01806	-382.6485	224.85642	84.070372	24
9	109	66.31953	38.934765	- 372.02375	246.12566	92.022612	24
10	109	67.976345	38.00436	- 362.90299	266.9216	99.797898	24

11	109	69.633155	37.210575	- 355.11827	287.4525	107.47408	24
12	109	71.289965	36.541325	- 348.55168	307.77318	115.07168	24
13	109	72.94678	35.98752	- 343.12303	327.80555	122.56147	24
14	109	74.603595	35.542295	- 338.75469	347.32957	129.86121	24
15	109	76.253165	35.20159	- 335.41661	364.40493	136.24542	24
16	109	77.8955	34.960845	- 333.05414	378.39832	141.47733	24
17	109	79.537835	34.81565	- 331.62761	390.20841	145.89295	24
18	109	80.6595	34.7605	- 331.09421	398.55072	149.01201	24
19	109	81.65159	34.763795	- 331.12511	179.7495	67.205584	24
20	109	83.22134	34.833255	- 331.80414	186.87735	69.870576	24
21	109	84.97766	35.007435	- 333.50855	191.46761	71.586804	24
22	109	86.733975	35.291445	-336.2954	191.66568	71.660861	24
23	109	88.49029	35.68865	- 340.18979	186.88143	69.872102	24
24	109	90.175985	36.17851	- 344.99531	174.82361	80.779849	2
25	109	91.791055	36.757605	- 350.67564	160.17464	74.011073	2
26	109	93.406125	37.44908	- 357.45756	140.62873	64.979596	2
27	109	95.021195	38.262175	- 365.42853	116.39664	53.782798	2
28	109	96.63627	39.20911	- 374.71539	87.878029	40.60535	2
29	109	98.251345	40.30631	- 385.47738	55.552136	25.668691	2

30	109	99.86639	41.57642	- 397.93323	19.886962	9.1890664	2
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SEZIONE 2

ANALISI DI STABILITÀ GLOBALE – FASE STATICA

1 PROJECT SETTINGS

Length(L) Units: [meters](#)
Time(t) Units: [Seconds](#)
Force(F) Units: [kN](#)
Pressure(p) Units: [kPa](#)
Strength Units: [kPa](#)
Unit Weight of Water: [9.807 kN/m³](#)
View: [2D](#)

2 ANALYSIS SETTINGS

2.1 SLOPE/W ANALYSIS

Kind: [SLOPE/W](#)
Method: [Morgenstern-Price](#)
Settings
 Apply Phreatic Correction: [No](#)
 Side Function
 Interslice force function option: [Half-Sine](#)
 PWP Conditions Source: [Piezometric Line](#)
 Use Staged Rapid Drawdown: [No](#)
SlipSurface
 Direction of movement: [Left to Right](#)
 Allow Passive Mode: [No](#)
 Slip Surface Option: [Grid and Radius](#)
 Critical slip surfaces saved: [1](#)
 Optimize Critical Slip Surface Location: [No](#)
 Tension Crack
 Tension Crack Option: [\(none\)](#)
FOS Distribution
 FOS Calculation Option: [Constant](#)
Advanced
 Number of Slices: [30](#)
 Optimization Tolerance: [0.01](#)
 Minimum Slip Surface Depth: [0.1 m](#)
 Minimum Slice Width: [0.05 m](#)
 Optimization Maximum Iterations: [2000](#)
 Optimization Convergence Tolerance: [1e-007](#)
 Starting Optimization Points: [8](#)
 Ending Optimization Points: [16](#)
 Complete Passes per Insertion: [1](#)

3 MATERIALS

3.1 FRANA

Model: **Mohr-Coulomb**
Unit Weight: **20 kN/m³**
Cohesion: **0 kPa**
Phi: **14 °**
Phi-B: **0 °**
Pore Water Pressure
Piezometric Line: **1**

3.2 BNA3_2

Model: **Mohr-Coulomb**
Unit Weight: **20 kN/m³**
Cohesion: **2 kPa**
Phi: **24.8 °**
Phi-B: **0 °**
Pore Water Pressure
Piezometric Line: **1**

3.3 BNA3_3

Model: **Mohr-Coulomb**
Unit Weight: **20 kN/m³**
Cohesion: **24 kPa**
Phi: **20.5 °**
Phi-B: **0 °**
Pore Water Pressure
Piezometric Line: **1**

3.4 BNA3_4

Model: **Mohr-Coulomb**
Unit Weight: **20 kN/m³**
Cohesion: **4 kPa**
Phi: **26.6 °**
Phi-B: **0 °**
Pore Water Pressure
Piezometric Line: **1**

4 SLIP SURFACE GRID

Upper Left: **(20.792735, 126.97216) m**
Lower Left: **(17.926681, 49.221247) m**
Lower Right: **(118.23859, 22.250939) m**
Grid Horizontal Increment: **30**
Grid Vertical Increment: **30**
Left Projection Angle: **0 °**
Right Projection Angle: **0 °**

5 SLIP SURFACE RADIUS

Upper Left Coordinate: **(55.484542, 22.573305) m**

Upper Right Coordinate: (55.484542, 22.573305) m
Lower Left Coordinate: (55.484542, 22.573305) m
Lower Right Coordinate: (55.484542, 22.573305) m
Number of Increments: 0
Left Projection: No
Left Projection Angle: 135 °
Right Projection: No
Right Projection Angle: 45 °
UsePoints: 0

6 SLIP SURFACE LIMITS

Left Coordinate: (0, 44.682) m
Right Coordinate: (94.503, 30.456) m

7 PIEZOMETRIC LINES

7.1 PIEZOMETRIC LINE 1

7.1.1 Coordinates

	X (m)	Y (m)
	0	1
	0.072821	1
	50.625911	1
	55.397174	1
	94.503	1

8 REINFORCEMENTS

8.1 REINFORCEMENT 1

Type: Anchor
Outside Point: (55.526, 37.056) m
Inside Point: (39.358, 30.502) m
Slip Surface Intersection: (39.418, 30.526) m
Total Length: 17.445892 m
Reinforcement Direction: 22.066 °
Applied Load Option: Variable
F of S Dependent: No
Bond Length: 10 m
Bond Diameter: 0.14 m
Bond Safety Factor: 2.16
Bond Skin Friction: 200 kPa
Bond Resistance: 11.312319 kN/m
Anchor Spacing: 3.6 m

Bar Capacity: 10000 kN
 Bar Safety Factor: 1
 Bar Load: 2777.7778 kN
 Load Distribution: Conc. in 1 slice
 Shear Capacity: 0 kN
 Shear Safety Factor: 1
 Shear Option: Parallel to Slip
 Shear Load: 0 kN
 Applied Load: 113.12319 kN
 Anchor Load Used: 0.73561 kN
 Resisting Force Used: 11.312 kN/m
 Available Bond Length: 0.065027 m
 Required Bond Length: 0.065027 m
 Governing Component: Bond

8.2 REINFORCEMENT 2

Type: Anchor
 Outside Point: (55.526, 33.056) m
 Inside Point: (43.163, 27.738) m
 Slip Surface Intersection: (42.764, 27.566) m
 Total Length: 13.458265 m
 Reinforcement Direction: 23.275 °
 Applied Load Option: Variable
 F of S Dependent: No
 Bond Length: 8 m
 Bond Diameter: 0.14 m
 Bond Safety Factor: 2.16
 Bond Skin Friction: 200 kPa
 Bond Resistance: 11.312319 kN/m
 Anchor Spacing: 3.6 m
 Bar Capacity: 10000 kN
 Bar Safety Factor: 1
 Bar Load: 2777.7778 kN
 Load Distribution: Conc. in 1 slice
 Shear Capacity: 0 kN
 Shear Safety Factor: 1
 Shear Option: Parallel to Slip
 Shear Load: 0 kN
 Applied Load: 90.498554 kN
 Anchor Load Used: 0 kN
 Resisting Force Used: 11.312 kN/m
 Available Bond Length: 0 m
 Required Bond Length: 0 m
 Governing Component: Bond

9 REGIONS

	Material	Points	Area (m ²)
Region 1	FRANA	1,2,3,4,5,6,7	221.33961
Region 2	BNA3_2	7,6,5,22,27,29,28,10,9,8	780.26

Region 3	BNA3_3	8,9,10,28,25,11,12	447.038
Region 4	BNA3_4	12,11,25,15,14,13	768.4267
Region 5	BNA3_4	13,14,15,20,19,18	283.509
Region 6	BNA3_4	18,19,20,16,17	1056.0012

10 POINTS

	X (m)	Y (m)
Point 1	0	44.682
Point 2	50.954	41.057
Point 3	54.915	40.056
Point 4	55.526	40.056
Point 5	55.526	36.056
Point 6	50.954	37.057
Point 7	0	40.7
Point 8	0	29.68
Point 9	50.954	26.06
Point 10	55.526	26.06
Point 11	50.954	21.06
Point 12	0	25.68
Point 13	0	16.822
Point 14	50.954	13.197
Point 15	94.503	13.197
Point 16	94.503	0
Point 17	0	0
Point 18	0	13.822
Point 19	50.954	10.197
Point 20	94.503	10.197
Point 21	55.526	35.756
Point 22	55.526	31.756

Point 23	43.163	27.738
Point 24	39.358	30.502
Point 25	94.503	21.06
Point 26	55.526	22.556
Point 27	55.526	30.456
Point 28	94.503	26.06
Point 29	94.503	30.456

11 CRITICAL SLIP SURFACES

	Number	FOS	Center (m)	Radius (m)	Entry (m)	Exit (m)
1	137	2.024	(58.434, 48.8)	26.392	(32.8431, 42.3455)	(77.4081, 30.456)

11.1 SLICES OF SLIP SURFACE: 137

	Slip Surface	X (m)	Y (m)	PWP (kPa)	Base Normal Stress (kPa)	Frictional Strength (kPa)	Cohesive Strength (kPa)
1	137	33.542165	40.298675	-385.39231	27.778022	6.9258387	0
2	137	34.957005	36.846115	-351.531	66.667596	30.804754	2
3	137	36.3886	34.34842	-327.04869	101.84848	47.060603	2
4	137	37.820195	32.35905	-307.53846	130.86326	60.467314	2
5	137	39.251785	30.702885	-291.29383	156.22146	72.18445	2
6	137	40.68338	29.29285	-277.47023	178.6874	82.565169	2
7	137	42.114975	28.07783	-265.55132	199.65877	92.255302	2
8	137	43.54657	27.02477	-255.22681	219.51547	101.43039	2
9	137	45.05781	26.067365	-245.83836	239.50522	89.547334	24
10	137	46.648695	25.20208	-237.3524	260.43699	97.373402	24

11	137	48.23958	24.471525	- 230.18712	280.81612	104.99284	24
12	137	49.830465	23.86379	- 224.22524	300.72387	112.43605	24
13	137	50.789955	23.53972	- 221.04771	312.70676	116.91627	24
14	137	51.614165	23.31344	- 218.82819	320.24174	119.73348	24
15	137	52.9345	22.99611	- 215.71383	331.07824	123.78508	24
16	137	54.254835	22.749525	- 213.29437	341.00027	127.49478	24
17	137	55.156085	22.613455	- 211.96185	348.50232	130.29968	24
18	137	55.461585	22.57598	- 211.59242	352.00871	131.61066	24
19	137	56.26703	22.507615	- 210.92285	166.11705	62.108618	24
20	137	57.74909	22.427315	- 210.13652	176.17499	65.869131	24
21	137	59.23115	22.430495	- 210.17199	184.33466	68.919904	24
22	137	60.71321	22.517185	- 211.02092	190.22267	71.121342	24
23	137	62.19527	22.68821	-212.6942	193.447	72.326871	24
24	137	63.67733	22.945255	- 215.21787	193.61409	72.389341	24
25	137	65.15939	23.290935	- 218.60612	190.34247	71.166134	24
26	137	66.64145	23.72892	- 222.90365	183.31951	68.540358	24
27	137	68.12351	24.264175	- 228.15232	172.30505	64.422219	24
28	137	69.60557	24.903275	- 234.42127	157.17937	58.766957	24
29	137	71.08763	25.65486	- 241.79134	137.90768	51.561569	24

30	137	72.526095	26.50076	- 250.08712	110.08051	50.864337	2
31	137	73.92096	27.44738	- 259.36952	83.440695	38.555014	2
32	137	75.31582	28.53423	- 270.02731	53.163796	24.565122	2
33	137	76.71068	29.78561	- 282.30229	19.236395	8.8884624	2



Report di Calcolo

Nome Progetto: New Project

Autore: Ingegnere

Jobname: \\SBS2011\Comm\424.01 - HIRPINIA\Ing\03. LAVORO\07 - GALL\GA - FINESTRE - IMBOCCHI\GA13 Finestra F7\PARATIA\sez1\SEZIONE 1 STR Finestra F7 -Long_revD.pplus

Data: 29/06/2020 17:40:08

Design Section: Base Design Section

Sommario

Contenuto Sommario

Descrizione della Stratigrafia e degli Strati di Terreno

Tipo : HORIZONTAL

Quota : 2 m

OCR : 1

Tipo : HORIZONTAL

Quota : -2 m

OCR : 1

Tipo : HORIZONTAL

Quota : -13 m

OCR : 1

Tipo : HORIZONTAL

Quota : -18 m

OCR : 1

Strato di Terreno	Terreno	γ dry	γ sat	ϕ'	ϕ	c_v	ϕ_p	c'	Su	Modulo Elastico	Eu	Evc	Eur	Ah	Avexp	Pa	Rur/Rvc	Rvc	Ku	Kvc	Kur		
		kN/m ³	kN/m ³	°	°	°	°	kPa	kPa			kPa	kPa			kPa			kPa	kN/m ³	kN/m ³	kN/m ³	
1	FRANA	20	20	14				0		Constant		15000	24000										
2	BNA3(2)	20	20	30				2.5		Constant		50000	80000										
3	BNA3(3)	20	20	25				30		Constant		75000	120000										
4	BNA3(4)	20	20	32				5		Constant		100000	160000										

Descrizione Pareti

X : 0 m

Quota in alto : 2 m

Quota di fondo : -16 m

Muro di sinistra

Sezione : PALI_Fi1000/1200

Area equivalente : 0.654498469497874 m

Inerzia equivalente : 0.0409 m⁴/m

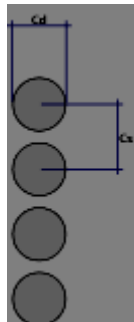
Materiale calcestruzzo : C25/30

Tipo sezione : Tangent

Spaziatura : 1.2 m

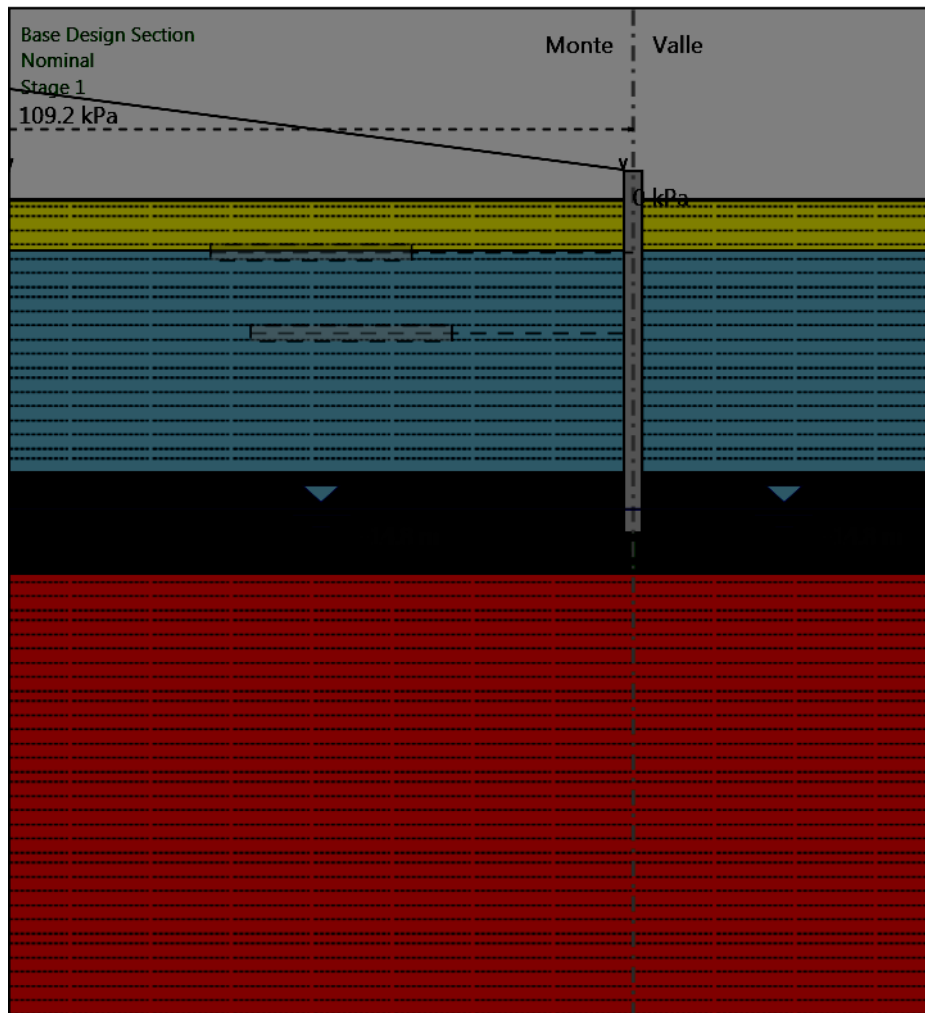
Diametro : 1 m

Efficacia : 1



Fasi di Calcolo

Stage 1



Stage 1

Scavo

Muro di sinistra

Lato monte : 0.5 m

Lato valle : 0.5 m

Linea di scavo di sinistra (Orizzontale)

0.5 m

Linea di scavo di destra (Orizzontale)

0.5 m

Falda acquifera

Falda di sinistra : -14.8 m

Falda di destra : -14.8 m

Carichi

Carico lineare in superficie : SurfaceSurcharge

X iniziale : -0.5 m

X finale : -31 m

Pressione iniziale : 0 kPa

Pressione finale : 109.2 kPa

Elementi strutturali

Paratia : WallElement

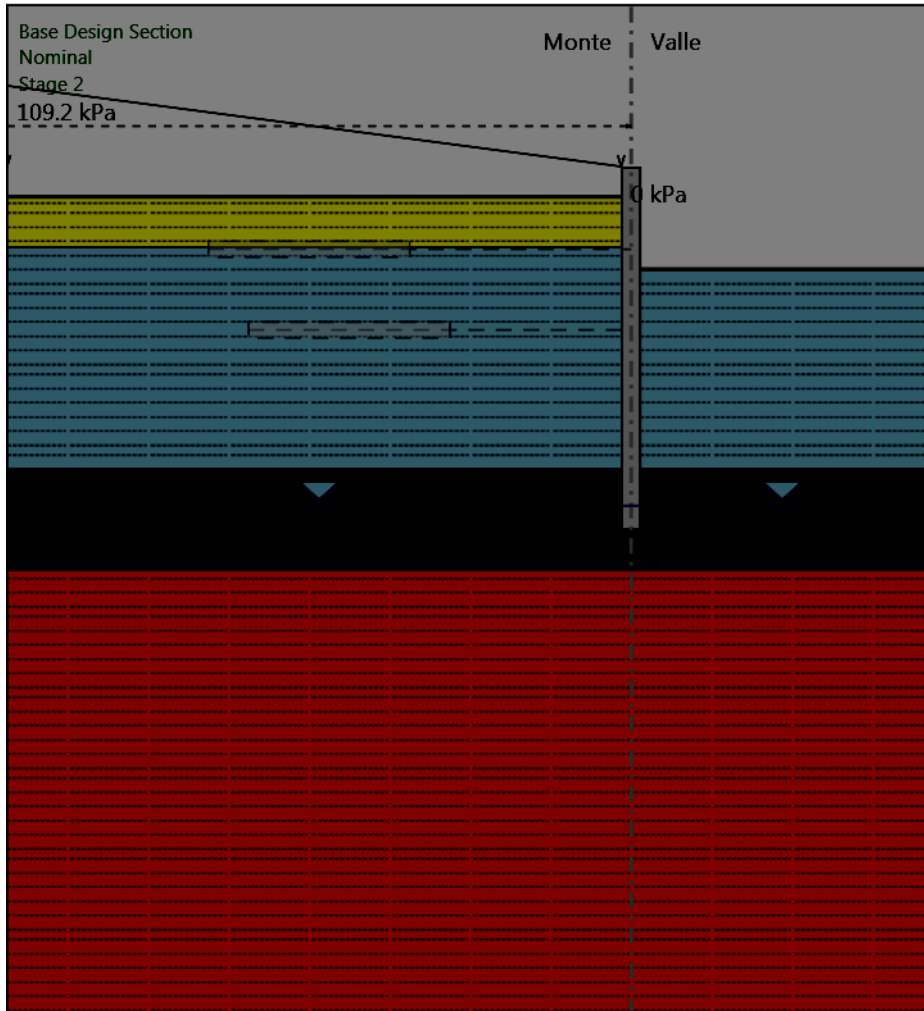
X : 0 m

Quota in alto : 2 m

Quota di fondo : -16 m

Sezione : PALI_Fi1000/1200

Stage 2



Stage 2

Scavo

Muro di sinistra

Lato monte : 0.5 m

Lato valle : -3.1 m

Linea di scavo di sinistra (Orizzontale)

0.5 m

Linea di scavo di destra (Orizzontale)

-3.1 m

Falda acquifera

Falda di sinistra : -14.8 m

Falda di destra : -14.8 m

Carichi

Carico lineare in superficie : SurfaceSurcharge

X iniziale : -0.5 m

X finale : -31 m

Pressione iniziale : 0 kPa

Pressione finale : 109.2 kPa

Elementi strutturali

Paratia : WallElement

X : 0 m

Quota in alto : 2 m

Quota di fondo : -16 m

Sezione : PALI_Fi1000/1200

Falda acquifera

Falda di sinistra : -14.8 m

Falda di destra : -14.8 m

Carichi

Carico lineare in superficie : SurfaceSurcharge

X iniziale : -0.5 m

X finale : -31 m

Pressione iniziale : 0 kPa

Pressione finale : 109.2 kPa

Elementi strutturali

Paratia : WallElement

X : 0 m

Quota in alto : 2 m

Quota di fondo : -16 m

Sezione : PALI_Fi1000/1200

Tirante : Tieback

X : 0 m

Z : -2.1 m

Lunghezza bulbo : 10 m

Diametro bulbo : 0.14 m

Lunghezza libera : 11 m

Precarico : 265 kN

Angolo : 0 °

Sezione : Trefoli 3

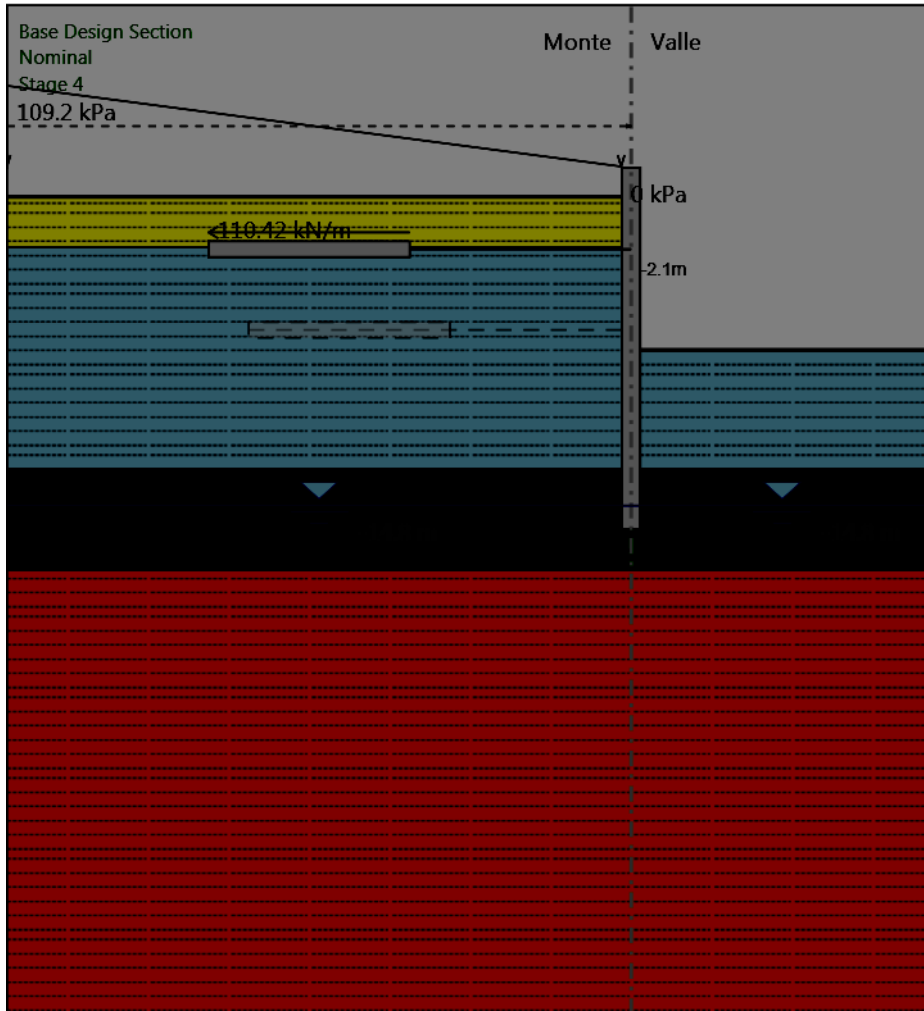
Tipo di barre : Barre trefoli

Numero di barre : 3

Diametro : 0.01331 m

Area : 0.000417 m²

Stage 4



Stage 4

Scavo

Muro di sinistra

Lato monte : 0.5 m

Lato valle : -7.1 m

Linea di scavo di sinistra (Orizzontale)

0.5 m

Linea di scavo di destra (Orizzontale)

-7.1 m

Falda acquifera

Falda di sinistra : -14.8 m

Falda di destra : -14.8 m

Carichi

Carico lineare in superficie : SurfaceSurcharge

X iniziale : -0.5 m

X finale : -31 m

Pressione iniziale : 0 kPa

Pressione finale : 109.2 kPa

Elementi strutturali

Paratia : WallElement

X : 0 m

Quota in alto : 2 m

Quota di fondo : -16 m

Sezione : PALI_Fi1000/1200

Tirante : Tieback

X : 0 m

Z : -2.1 m

Lunghezza bulbo : 10 m

Diametro bulbo : 0.14 m

Lunghezza libera : 11 m

Precarico : 265 kN

Angolo : 0 °

Sezione : Trefoli 3

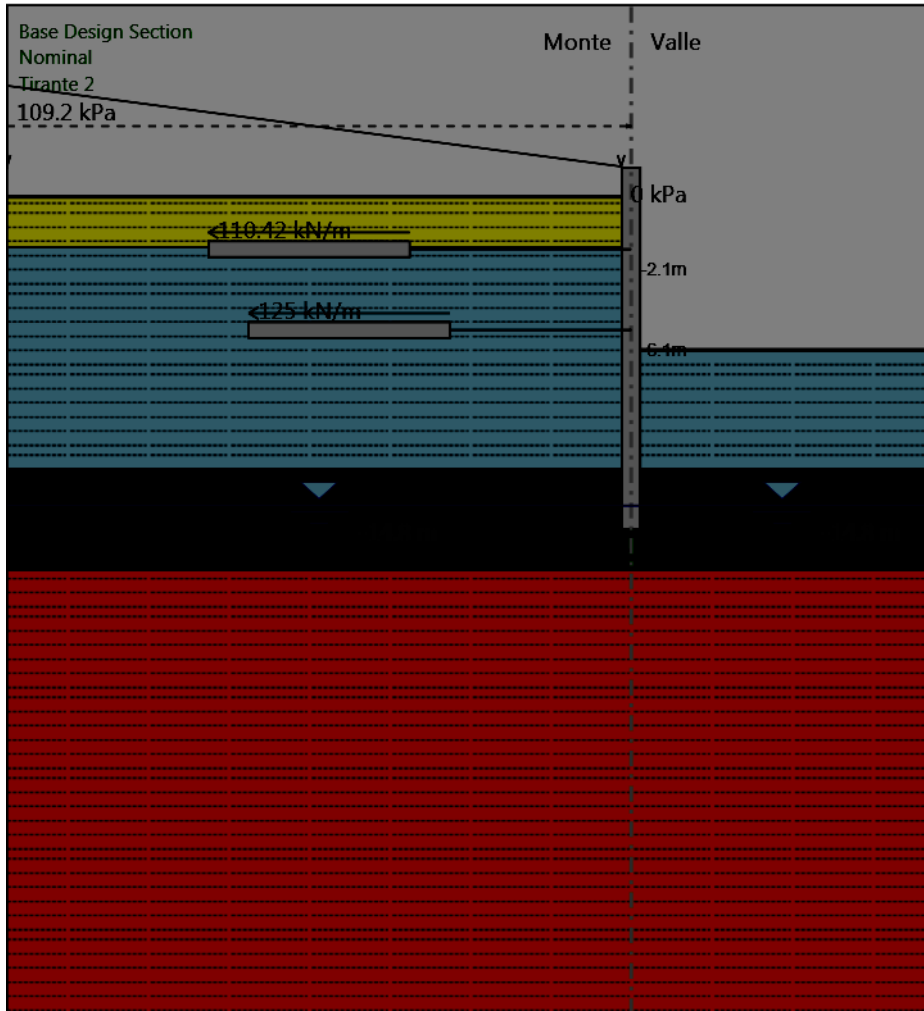
Tipo di barre : Barre trefoli

Numero di barre : 3

Diametro : 0.01331 m

Area : 0.000417 m²

Tirante 2



Tirante 2

Scavo

Muro di sinistra

Lato monte : 0.5 m

Lato valle : -7.1 m

Linea di scavo di sinistra (Orizzontale)

0.5 m

Linea di scavo di destra (Orizzontale)

-7.1 m

Falda acquifera

Falda di sinistra : -14.8 m

Falda di destra : -14.8 m

Carichi

Carico lineare in superficie : SurfaceSurcharge

X iniziale : -0.5 m

X finale : -31 m

Pressione iniziale : 0 kPa

Pressione finale : 109.2 kPa

Elementi strutturali

Paratia : WallElement

X : 0 m

Quota in alto : 2 m

Quota di fondo : -16 m

Sezione : PALI_Fi1000/1200

Tirante : Tieback

X : 0 m

Z : -2.1 m

Lunghezza bulbo : 10 m

Diametro bulbo : 0.14 m

Lunghezza libera : 11 m

Precarico : 265 kN

Angolo : 0 °

Sezione : Trefoli 3

Tipo di barre : Barre trefoli

Numero di barre : 3

Diametro : 0.01331 m

Area : 0.000417 m²

Tirante : Tieback

X : 0 m

Z : -6.1 m

Lunghezza bulbo : 10 m

Diametro bulbo : 0.14 m

Lunghezza libera : 9 m

Precarico : 300 kN

Angolo : 0 °

Sezione : Trefoli 3

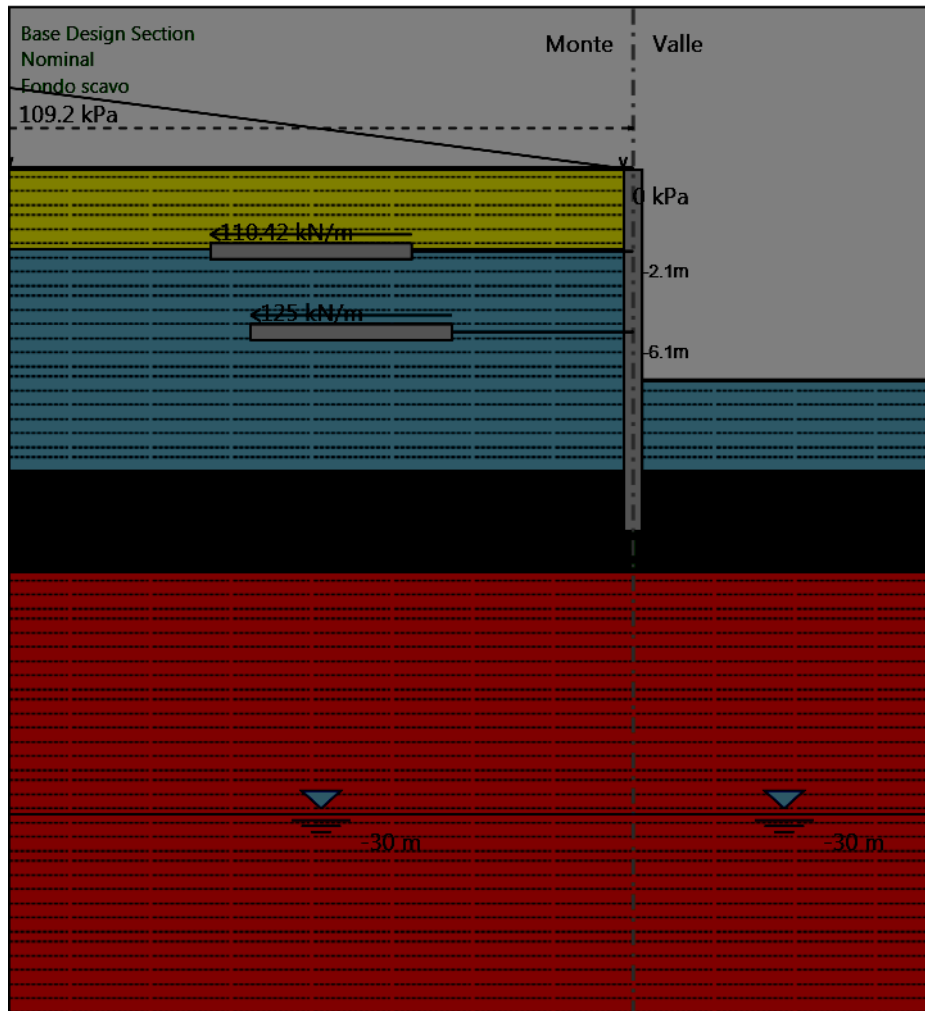
Tipo di barre : Barre trefoli

Numero di barre : 3

Diametro : 0.01331 m

Area : 0.000417 m²

Fondo scavo



Fondo scavo

Scavo

Muro di sinistra

Lato monte : 2 m

Lato valle : -8.5 m

Linea di scavo di sinistra (Orizzontale)

2 m

Linea di scavo di destra (Orizzontale)

-8.5 m

Falda acquifera

Falda di sinistra : -30 m

Falda di destra : -30 m

Carichi

Carico lineare in superficie : SurfaceSurcharge

X iniziale : -0.5 m

X finale : -31 m

Pressione iniziale : 0 kPa

Pressione finale : 109.2 kPa

Elementi strutturali

Paratia : WallElement

X : 0 m

Quota in alto : 2 m

Quota di fondo : -16 m

Sezione : PALI_Fi1000/1200

Tirante : Tieback

X : 0 m

Z : -2.1 m

Lunghezza bulbo : 10 m

Diametro bulbo : 0.14 m

Lunghezza libera : 11 m

Precarico : 265 kN

Angolo : 0 °

Sezione : Trefoli 3

Tipo di barre : Barre trefoli

Numero di barre : 3

Diametro : 0.01331 m

Area : 0.000417 m²

Tirante : Tieback

X : 0 m

Z : -6.1 m

Lunghezza bulbo : 10 m

Diametro bulbo : 0.14 m

Lunghezza libera : 9 m

Precarico : 300 kN

Angolo : 0 °

Sezione : Trefoli 3

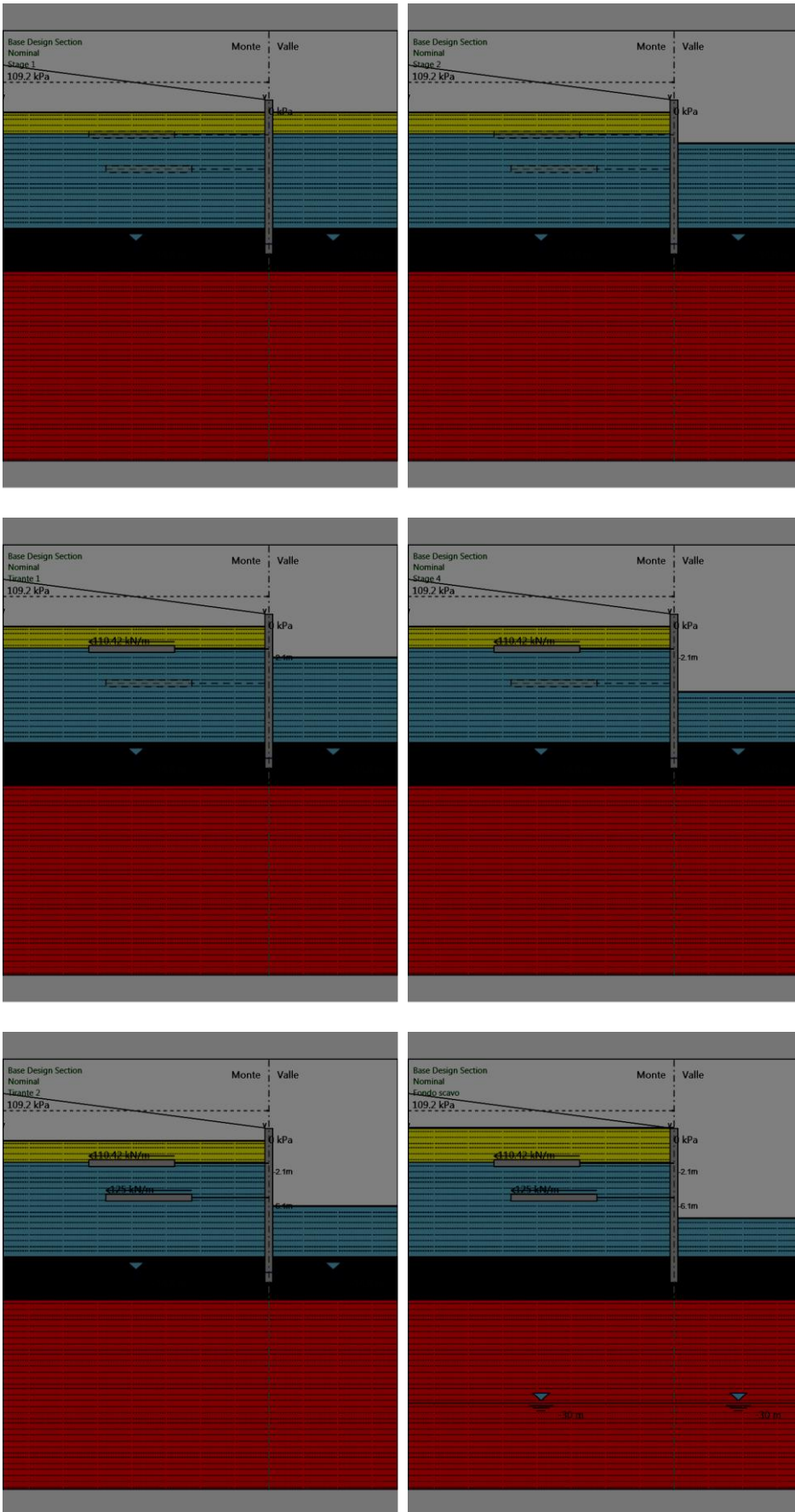
Tipo di barre : Barre trefoli

Numero di barre : 3

Diametro : 0.01331 m

Area : 0.000417 m²

Tabella Configurazione Stage (Nominal)



Grafici dei Risultati

Design Assumption : Nominal

Tabella Spostamento Nominal - LEFT Stage: Stage 1

Design Assumption: Nominal	Tipo Risultato: Spostamento	Muro: LEFT
Stage	Z (m)	Spostamento (mm)
Stage 1	2	0
Stage 1	1.8	0
Stage 1	1.6	0
Stage 1	1.4	0
Stage 1	1.2	0
Stage 1	1	0
Stage 1	0.8	0
Stage 1	0.6	0
Stage 1	0.4	0
Stage 1	0.2	0
Stage 1	0	0
Stage 1	-0.2	0
Stage 1	-0.4	0
Stage 1	-0.6	0
Stage 1	-0.8	0
Stage 1	-1	0
Stage 1	-1.2	0
Stage 1	-1.4	0
Stage 1	-1.6	0
Stage 1	-1.8	0
Stage 1	-2	0
Stage 1	-2.1	0
Stage 1	-2.3	0
Stage 1	-2.5	0
Stage 1	-2.7	0
Stage 1	-2.9	0
Stage 1	-3.1	0
Stage 1	-3.3	0
Stage 1	-3.5	0
Stage 1	-3.7	0
Stage 1	-3.9	0
Stage 1	-4.1	0
Stage 1	-4.3	0
Stage 1	-4.5	0
Stage 1	-4.7	0
Stage 1	-4.9	0
Stage 1	-5.1	0
Stage 1	-5.3	0
Stage 1	-5.5	0
Stage 1	-5.7	0
Stage 1	-5.9	0
Stage 1	-6.1	0
Stage 1	-6.3	0
Stage 1	-6.5	0
Stage 1	-6.7	0
Stage 1	-6.9	0
Stage 1	-7.1	0
Stage 1	-7.3	0
Stage 1	-7.5	0
Stage 1	-7.7	0
Stage 1	-7.9	0
Stage 1	-8.1	0
Stage 1	-8.3	0
Stage 1	-8.5	0
Stage 1	-8.7	0
Stage 1	-8.9	0
Stage 1	-9.1	0
Stage 1	-9.3	0
Stage 1	-9.5	0
Stage 1	-9.7	0
Stage 1	-9.9	0

Design Assumption: Nominal Tipo Risultato: Spostamento			Muro: LEFT
Stage	Z (m)	Spostamento (mm)	
Stage 1	-10.1	0	
Stage 1	-10.3	0	
Stage 1	-10.5	0	
Stage 1	-10.7	0	
Stage 1	-10.9	0	
Stage 1	-11.1	0	
Stage 1	-11.3	0	
Stage 1	-11.5	0	
Stage 1	-11.7	0	
Stage 1	-11.9	0	
Stage 1	-12.1	0	
Stage 1	-12.3	0	
Stage 1	-12.5	0	
Stage 1	-12.7	0	
Stage 1	-12.9	0	
Stage 1	-13.1	0	
Stage 1	-13.3	0	
Stage 1	-13.5	0	
Stage 1	-13.7	0	
Stage 1	-13.9	0	
Stage 1	-14.1	0	
Stage 1	-14.3	0	
Stage 1	-14.5	0	
Stage 1	-14.7	0	
Stage 1	-14.9	0	
Stage 1	-15.1	0	
Stage 1	-15.3	0	
Stage 1	-15.5	0	
Stage 1	-15.7	0	
Stage 1	-15.9	0	
Stage 1	-16	0	

Tabella Spostamento Nominal - LEFT Stage: Stage 2

Design Assumption: Nominal	Tipo Risultato: Spostamento	Muro: LEFT
Stage	Z (m)	Spostamento (mm)
Stage 2	2	4.85
Stage 2	1.8	4.72
Stage 2	1.6	4.59
Stage 2	1.4	4.46
Stage 2	1.2	4.34
Stage 2	1	4.21
Stage 2	0.8	4.08
Stage 2	0.6	3.95
Stage 2	0.4	3.82
Stage 2	0.2	3.69
Stage 2	0	3.57
Stage 2	-0.2	3.44
Stage 2	-0.4	3.31
Stage 2	-0.6	3.18
Stage 2	-0.8	3.05
Stage 2	-1	2.93
Stage 2	-1.2	2.8
Stage 2	-1.4	2.67
Stage 2	-1.6	2.54
Stage 2	-1.8	2.42
Stage 2	-2	2.29
Stage 2	-2.1	2.23
Stage 2	-2.3	2.11
Stage 2	-2.5	1.98
Stage 2	-2.7	1.86
Stage 2	-2.9	1.74
Stage 2	-3.1	1.63
Stage 2	-3.3	1.51
Stage 2	-3.5	1.4
Stage 2	-3.7	1.29
Stage 2	-3.9	1.19
Stage 2	-4.1	1.09
Stage 2	-4.3	0.99
Stage 2	-4.5	0.9
Stage 2	-4.7	0.81
Stage 2	-4.9	0.72
Stage 2	-5.1	0.64
Stage 2	-5.3	0.57
Stage 2	-5.5	0.5
Stage 2	-5.7	0.43
Stage 2	-5.9	0.37
Stage 2	-6.1	0.32
Stage 2	-6.3	0.26
Stage 2	-6.5	0.21
Stage 2	-6.7	0.17
Stage 2	-6.9	0.13
Stage 2	-7.1	0.09
Stage 2	-7.3	0.06
Stage 2	-7.5	0.03
Stage 2	-7.7	0
Stage 2	-7.9	-0.03
Stage 2	-8.1	-0.05
Stage 2	-8.3	-0.07
Stage 2	-8.5	-0.08
Stage 2	-8.7	-0.1
Stage 2	-8.9	-0.11
Stage 2	-9.1	-0.12
Stage 2	-9.3	-0.13
Stage 2	-9.5	-0.13
Stage 2	-9.7	-0.14
Stage 2	-9.9	-0.14
Stage 2	-10.1	-0.14
Stage 2	-10.3	-0.14
Stage 2	-10.5	-0.14
Stage 2	-10.7	-0.14
Stage 2	-10.9	-0.14
Stage 2	-11.1	-0.14

Design Assumption: Nominal Tipo Risultato: Spostamento Muro: LEFT		
Stage	Z (m)	Spostamento (mm)
Stage 2	-11.3	-0.13
Stage 2	-11.5	-0.13
Stage 2	-11.7	-0.12
Stage 2	-11.9	-0.12
Stage 2	-12.1	-0.11
Stage 2	-12.3	-0.11
Stage 2	-12.5	-0.1
Stage 2	-12.7	-0.1
Stage 2	-12.9	-0.09
Stage 2	-13.1	-0.08
Stage 2	-13.3	-0.08
Stage 2	-13.5	-0.07
Stage 2	-13.7	-0.06
Stage 2	-13.9	-0.05
Stage 2	-14.1	-0.05
Stage 2	-14.3	-0.04
Stage 2	-14.5	-0.03
Stage 2	-14.7	-0.03
Stage 2	-14.9	-0.02
Stage 2	-15.1	-0.01
Stage 2	-15.3	-0.01
Stage 2	-15.5	0
Stage 2	-15.7	0.01
Stage 2	-15.9	0.02
Stage 2	-16	0.02

Tabella Spostamento Nominal - LEFT Stage: Tirante 1

Design Assumption: Nominal	Tipo Risultato: Spostamento	Muro: LEFT
Stage	Z (m)	Spostamento (mm)
Tirante 1	2	2.14
Tirante 1	1.8	2.08
Tirante 1	1.6	2.02
Tirante 1	1.4	1.96
Tirante 1	1.2	1.9
Tirante 1	1	1.84
Tirante 1	0.8	1.78
Tirante 1	0.6	1.72
Tirante 1	0.4	1.66
Tirante 1	0.2	1.6
Tirante 1	0	1.54
Tirante 1	-0.2	1.48
Tirante 1	-0.4	1.42
Tirante 1	-0.6	1.36
Tirante 1	-0.8	1.3
Tirante 1	-1	1.24
Tirante 1	-1.2	1.18
Tirante 1	-1.4	1.12
Tirante 1	-1.6	1.07
Tirante 1	-1.8	1.01
Tirante 1	-2	0.95
Tirante 1	-2.1	0.93
Tirante 1	-2.3	0.88
Tirante 1	-2.5	0.83
Tirante 1	-2.7	0.78
Tirante 1	-2.9	0.73
Tirante 1	-3.1	0.68
Tirante 1	-3.3	0.64
Tirante 1	-3.5	0.59
Tirante 1	-3.7	0.55
Tirante 1	-3.9	0.51
Tirante 1	-4.1	0.47
Tirante 1	-4.3	0.43
Tirante 1	-4.5	0.39
Tirante 1	-4.7	0.36
Tirante 1	-4.9	0.32
Tirante 1	-5.1	0.29
Tirante 1	-5.3	0.26
Tirante 1	-5.5	0.23
Tirante 1	-5.7	0.2
Tirante 1	-5.9	0.17
Tirante 1	-6.1	0.15
Tirante 1	-6.3	0.13
Tirante 1	-6.5	0.11
Tirante 1	-6.7	0.09
Tirante 1	-6.9	0.07
Tirante 1	-7.1	0.05
Tirante 1	-7.3	0.04
Tirante 1	-7.5	0.02
Tirante 1	-7.7	0.01
Tirante 1	-7.9	0
Tirante 1	-8.1	-0.01
Tirante 1	-8.3	-0.02
Tirante 1	-8.5	-0.03
Tirante 1	-8.7	-0.04
Tirante 1	-8.9	-0.04
Tirante 1	-9.1	-0.05
Tirante 1	-9.3	-0.05
Tirante 1	-9.5	-0.06
Tirante 1	-9.7	-0.06
Tirante 1	-9.9	-0.06
Tirante 1	-10.1	-0.06
Tirante 1	-10.3	-0.06
Tirante 1	-10.5	-0.06
Tirante 1	-10.7	-0.07
Tirante 1	-10.9	-0.06
Tirante 1	-11.1	-0.06

Design Assumption: Nominal Tipo Risultato: Spostamento		
Stage	Z (m)	Muro: LEFT Spostamento (mm)
Tirante 1	-11.3	-0.06
Tirante 1	-11.5	-0.06
Tirante 1	-11.7	-0.06
Tirante 1	-11.9	-0.06
Tirante 1	-12.1	-0.06
Tirante 1	-12.3	-0.05
Tirante 1	-12.5	-0.05
Tirante 1	-12.7	-0.05
Tirante 1	-12.9	-0.05
Tirante 1	-13.1	-0.04
Tirante 1	-13.3	-0.04
Tirante 1	-13.5	-0.04
Tirante 1	-13.7	-0.03
Tirante 1	-13.9	-0.03
Tirante 1	-14.1	-0.03
Tirante 1	-14.3	-0.02
Tirante 1	-14.5	-0.02
Tirante 1	-14.7	-0.02
Tirante 1	-14.9	-0.02
Tirante 1	-15.1	-0.01
Tirante 1	-15.3	-0.01
Tirante 1	-15.5	-0.01
Tirante 1	-15.7	0
Tirante 1	-15.9	0
Tirante 1	-16	0

Tabella Spostamento Nominal - LEFT Stage: Stage 4

Design Assumption: Nominal		
Tipo Risultato: Spostamento	Muro: LEFT	
Stage	Z (m)	Spostamento (mm)
Stage 4	2	7.09
Stage 4	1.8	7.01
Stage 4	1.6	6.93
Stage 4	1.4	6.85
Stage 4	1.2	6.77
Stage 4	1	6.69
Stage 4	0.8	6.62
Stage 4	0.6	6.54
Stage 4	0.4	6.46
Stage 4	0.2	6.38
Stage 4	0	6.3
Stage 4	-0.2	6.22
Stage 4	-0.4	6.14
Stage 4	-0.6	6.06
Stage 4	-0.8	5.99
Stage 4	-1	5.91
Stage 4	-1.2	5.83
Stage 4	-1.4	5.75
Stage 4	-1.6	5.67
Stage 4	-1.8	5.6
Stage 4	-2	5.52
Stage 4	-2.1	5.48
Stage 4	-2.3	5.41
Stage 4	-2.5	5.33
Stage 4	-2.7	5.26
Stage 4	-2.9	5.19
Stage 4	-3.1	5.11
Stage 4	-3.3	5.03
Stage 4	-3.5	4.96
Stage 4	-3.7	4.88
Stage 4	-3.9	4.8
Stage 4	-4.1	4.71
Stage 4	-4.3	4.62
Stage 4	-4.5	4.53
Stage 4	-4.7	4.44
Stage 4	-4.9	4.35
Stage 4	-5.1	4.25
Stage 4	-5.3	4.14
Stage 4	-5.5	4.04
Stage 4	-5.7	3.93
Stage 4	-5.9	3.82
Stage 4	-6.1	3.7
Stage 4	-6.3	3.58
Stage 4	-6.5	3.46
Stage 4	-6.7	3.33
Stage 4	-6.9	3.21
Stage 4	-7.1	3.08
Stage 4	-7.3	2.95
Stage 4	-7.5	2.82
Stage 4	-7.7	2.69
Stage 4	-7.9	2.56
Stage 4	-8.1	2.43
Stage 4	-8.3	2.3
Stage 4	-8.5	2.17
Stage 4	-8.7	2.04
Stage 4	-8.9	1.92
Stage 4	-9.1	1.8
Stage 4	-9.3	1.68
Stage 4	-9.5	1.57
Stage 4	-9.7	1.45
Stage 4	-9.9	1.35
Stage 4	-10.1	1.24
Stage 4	-10.3	1.14
Stage 4	-10.5	1.04
Stage 4	-10.7	0.95
Stage 4	-10.9	0.85
Stage 4	-11.1	0.77

Design Assumption: Nominal Tipo Risultato: Spostamento Muro: LEFT		
Stage	Z (m)	Spostamento (mm)
Stage 4	-11.3	0.68
Stage 4	-11.5	0.6
Stage 4	-11.7	0.52
Stage 4	-11.9	0.44
Stage 4	-12.1	0.37
Stage 4	-12.3	0.3
Stage 4	-12.5	0.23
Stage 4	-12.7	0.17
Stage 4	-12.9	0.1
Stage 4	-13.1	0.04
Stage 4	-13.3	-0.02
Stage 4	-13.5	-0.07
Stage 4	-13.7	-0.13
Stage 4	-13.9	-0.19
Stage 4	-14.1	-0.24
Stage 4	-14.3	-0.3
Stage 4	-14.5	-0.35
Stage 4	-14.7	-0.4
Stage 4	-14.9	-0.45
Stage 4	-15.1	-0.5
Stage 4	-15.3	-0.56
Stage 4	-15.5	-0.61
Stage 4	-15.7	-0.66
Stage 4	-15.9	-0.71
Stage 4	-16	-0.74

Tabella Spostamento Nominal - LEFT Stage: Tirante 2

Design Assumption: Nominal	Tipo Risultato: Spostamento	Muro: LEFT
Stage	Z (m)	Spostamento (mm)
Tirante 2	2	6.82
Tirante 2	1.8	6.72
Tirante 2	1.6	6.62
Tirante 2	1.4	6.52
Tirante 2	1.2	6.42
Tirante 2	1	6.31
Tirante 2	0.8	6.21
Tirante 2	0.6	6.11
Tirante 2	0.4	6.01
Tirante 2	0.2	5.91
Tirante 2	0	5.81
Tirante 2	-0.2	5.7
Tirante 2	-0.4	5.6
Tirante 2	-0.6	5.5
Tirante 2	-0.8	5.4
Tirante 2	-1	5.3
Tirante 2	-1.2	5.2
Tirante 2	-1.4	5.09
Tirante 2	-1.6	4.99
Tirante 2	-1.8	4.9
Tirante 2	-2	4.8
Tirante 2	-2.1	4.75
Tirante 2	-2.3	4.65
Tirante 2	-2.5	4.55
Tirante 2	-2.7	4.46
Tirante 2	-2.9	4.36
Tirante 2	-3.1	4.27
Tirante 2	-3.3	4.17
Tirante 2	-3.5	4.07
Tirante 2	-3.7	3.98
Tirante 2	-3.9	3.88
Tirante 2	-4.1	3.78
Tirante 2	-4.3	3.67
Tirante 2	-4.5	3.57
Tirante 2	-4.7	3.46
Tirante 2	-4.9	3.36
Tirante 2	-5.1	3.25
Tirante 2	-5.3	3.14
Tirante 2	-5.5	3.03
Tirante 2	-5.7	2.92
Tirante 2	-5.9	2.82
Tirante 2	-6.1	2.71
Tirante 2	-6.3	2.6
Tirante 2	-6.5	2.49
Tirante 2	-6.7	2.39
Tirante 2	-6.9	2.28
Tirante 2	-7.1	2.17
Tirante 2	-7.3	2.07
Tirante 2	-7.5	1.97
Tirante 2	-7.7	1.86
Tirante 2	-7.9	1.76
Tirante 2	-8.1	1.66
Tirante 2	-8.3	1.57
Tirante 2	-8.5	1.47
Tirante 2	-8.7	1.38
Tirante 2	-8.9	1.29
Tirante 2	-9.1	1.2
Tirante 2	-9.3	1.11
Tirante 2	-9.5	1.03
Tirante 2	-9.7	0.95
Tirante 2	-9.9	0.87
Tirante 2	-10.1	0.8
Tirante 2	-10.3	0.73
Tirante 2	-10.5	0.66
Tirante 2	-10.7	0.59
Tirante 2	-10.9	0.53
Tirante 2	-11.1	0.47

Design Assumption: Nominal Tipo Risultato: Spostamento		
Stage	Z (m)	Muro: LEFT Spostamento (mm)
Tirante 2	-11.3	0.41
Tirante 2	-11.5	0.36
Tirante 2	-11.7	0.3
Tirante 2	-11.9	0.25
Tirante 2	-12.1	0.2
Tirante 2	-12.3	0.15
Tirante 2	-12.5	0.11
Tirante 2	-12.7	0.07
Tirante 2	-12.9	0.02
Tirante 2	-13.1	-0.02
Tirante 2	-13.3	-0.06
Tirante 2	-13.5	-0.1
Tirante 2	-13.7	-0.13
Tirante 2	-13.9	-0.17
Tirante 2	-14.1	-0.21
Tirante 2	-14.3	-0.24
Tirante 2	-14.5	-0.28
Tirante 2	-14.7	-0.31
Tirante 2	-14.9	-0.35
Tirante 2	-15.1	-0.38
Tirante 2	-15.3	-0.42
Tirante 2	-15.5	-0.45
Tirante 2	-15.7	-0.48
Tirante 2	-15.9	-0.52
Tirante 2	-16	-0.53

Tabella Spostamento Nominal - LEFT Stage: Fondo scavo

Design Assumption: Nominal	Tipo Risultato: Spostamento	Muro: LEFT
Stage	Z (m)	Spostamento (mm)
Fondo scavo	2	44.29
Fondo scavo	1.8	43.62
Fondo scavo	1.6	42.96
Fondo scavo	1.4	42.29
Fondo scavo	1.2	41.63
Fondo scavo	1	40.96
Fondo scavo	0.8	40.3
Fondo scavo	0.6	39.63
Fondo scavo	0.4	38.96
Fondo scavo	0.2	38.3
Fondo scavo	0	37.63
Fondo scavo	-0.2	36.97
Fondo scavo	-0.4	36.31
Fondo scavo	-0.6	35.64
Fondo scavo	-0.8	34.98
Fondo scavo	-1	34.32
Fondo scavo	-1.2	33.66
Fondo scavo	-1.4	33.01
Fondo scavo	-1.6	32.35
Fondo scavo	-1.8	31.7
Fondo scavo	-2	31.05
Fondo scavo	-2.1	30.73
Fondo scavo	-2.3	30.09
Fondo scavo	-2.5	29.45
Fondo scavo	-2.7	28.82
Fondo scavo	-2.9	28.19
Fondo scavo	-3.1	27.56
Fondo scavo	-3.3	26.94
Fondo scavo	-3.5	26.31
Fondo scavo	-3.7	25.7
Fondo scavo	-3.9	25.08
Fondo scavo	-4.1	24.46
Fondo scavo	-4.3	23.85
Fondo scavo	-4.5	23.24
Fondo scavo	-4.7	22.63
Fondo scavo	-4.9	22.03
Fondo scavo	-5.1	21.42
Fondo scavo	-5.3	20.82
Fondo scavo	-5.5	20.23
Fondo scavo	-5.7	19.63
Fondo scavo	-5.9	19.04
Fondo scavo	-6.1	18.46
Fondo scavo	-6.3	17.88
Fondo scavo	-6.5	17.3
Fondo scavo	-6.7	16.73
Fondo scavo	-6.9	16.16
Fondo scavo	-7.1	15.6
Fondo scavo	-7.3	15.04
Fondo scavo	-7.5	14.48
Fondo scavo	-7.7	13.93
Fondo scavo	-7.9	13.38
Fondo scavo	-8.1	12.84
Fondo scavo	-8.3	12.3
Fondo scavo	-8.5	11.76
Fondo scavo	-8.7	11.23
Fondo scavo	-8.9	10.7
Fondo scavo	-9.1	10.18
Fondo scavo	-9.3	9.67
Fondo scavo	-9.5	9.17
Fondo scavo	-9.7	8.67
Fondo scavo	-9.9	8.18
Fondo scavo	-10.1	7.7
Fondo scavo	-10.3	7.23
Fondo scavo	-10.5	6.77
Fondo scavo	-10.7	6.32
Fondo scavo	-10.9	5.88
Fondo scavo	-11.1	5.46

Design Assumption: Nominal Tipo Risultato: Spostamento Muro: LEFT		
Stage	Z (m)	Spostamento (mm)
Fondo scavo	-11.3	5.04
Fondo scavo	-11.5	4.63
Fondo scavo	-11.7	4.23
Fondo scavo	-11.9	3.84
Fondo scavo	-12.1	3.47
Fondo scavo	-12.3	3.1
Fondo scavo	-12.5	2.74
Fondo scavo	-12.7	2.39
Fondo scavo	-12.9	2.05
Fondo scavo	-13.1	1.71
Fondo scavo	-13.3	1.38
Fondo scavo	-13.5	1.06
Fondo scavo	-13.7	0.74
Fondo scavo	-13.9	0.43
Fondo scavo	-14.1	0.12
Fondo scavo	-14.3	-0.18
Fondo scavo	-14.5	-0.48
Fondo scavo	-14.7	-0.78
Fondo scavo	-14.9	-1.08
Fondo scavo	-15.1	-1.37
Fondo scavo	-15.3	-1.67
Fondo scavo	-15.5	-1.96
Fondo scavo	-15.7	-2.25
Fondo scavo	-15.9	-2.54
Fondo scavo	-16	-2.69

Inviluppi Spostamento Nominal

Tabella Inviluppi Spostamento Nominal Left Wall

Risultato	Inviluppi	Spostamento
Left Wall	Muro Left Wall	
2	0	44.291
1.8	0	43.625
1.6	0	42.959
1.4	0	42.293
1.2	0	41.627
1	0	40.962
0.8	0	40.296
0.6	0	39.63
0.4	0	38.965
0.2	0	38.3
0	0	37.635
-0.2	0	36.971
-0.4	0	36.307
-0.6	0	35.644
-0.8	0	34.983
-1	0	34.322
-1.2	0	33.664
-1.4	0	33.007
-1.6	0	32.353
-1.8	0	31.702
-2	0	31.055
-2.1	0	30.732
-2.3	0	30.091
-2.5	0	29.453
-2.7	0	28.82
-2.9	0	28.189
-3.1	0	27.561
-3.3	0	26.937
-3.5	0	26.315
-3.7	0	25.695
-3.9	0	25.078
-4.1	0	24.463
-4.3	0	23.85
-4.5	0	23.24
-4.7	0	22.632
-4.9	0	22.026
-5.1	0	21.423
-5.3	0	20.823
-5.5	0	20.227
-5.7	0	19.633
-5.9	0	19.044
-6.1	0	18.459
-6.3	0	17.879
-6.5	0	17.303
-6.7	0	16.731
-6.9	0	16.163
-7.1	0	15.6
-7.3	0	15.039
-7.5	0	14.483
-7.7	-0.001	13.93
-7.9	-0.026	13.381
-8.1	-0.047	12.836
-8.3	-0.066	12.296
-8.5	-0.082	11.76
-8.7	-0.096	11.229
-8.9	-0.108	10.704
-9.1	-0.118	10.185
-9.3	-0.126	9.672
-9.5	-0.132	9.167
-9.7	-0.137	8.67
-9.9	-0.14	8.182
-10.1	-0.142	7.703
-10.3	-0.143	7.233
-10.5	-0.143	6.773

Risultato	Inviluppi	Spostamento
Left Wall	Muro Left Wall	
-10.7	-0.142	6.324
-10.9	-0.14	5.884
-11.1	-0.137	5.456
-11.3	-0.133	5.037
-11.5	-0.129	4.63
-11.7	-0.124	4.232
-11.9	-0.119	3.845
-12.1	-0.114	3.467
-12.3	-0.108	3.099
-12.5	-0.102	2.74
-12.7	-0.095	2.389
-12.9	-0.089	2.046
-13.1	-0.082	1.71
-13.3	-0.075	1.382
-13.5	-0.097	1.059
-13.7	-0.135	0.742
-13.9	-0.187	0.43
-14.1	-0.242	0.123
-14.3	-0.296	0
-14.5	-0.482	0
-14.7	-0.78	0
-14.9	-1.077	0
-15.1	-1.372	0
-15.3	-1.666	0
-15.5	-1.959	0.001
-15.7	-2.252	0.008
-15.9	-2.545	0.015
-16	-2.691	0.019

Risultati Paratia

Tabella Risultati Paratia Nominal - Stage: Stage 1

Design Assumption: Nominal Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 1	2	0	0
Stage 1	1.8	0	0
Stage 1	1.8	0	0
Stage 1	1.6	0	0
Stage 1	1.6	0	0
Stage 1	1.4	0	0
Stage 1	1.4	0	0
Stage 1	1.2	0	0
Stage 1	1.2	0	0
Stage 1	1	0	0
Stage 1	1	0	0
Stage 1	0.8	0	0
Stage 1	0.8	0	0
Stage 1	0.6	0	0
Stage 1	0.6	0	0
Stage 1	0.4	0	0
Stage 1	0.4	0	0
Stage 1	0.2	0	0
Stage 1	0	0	0
Stage 1	-0.2	0	0
Stage 1	-0.4	0	0
Stage 1	-0.6	0	0
Stage 1	-0.8	0	0
Stage 1	-1	0	0
Stage 1	-1.2	0	0
Stage 1	-1.4	0	0
Stage 1	-1.6	0	0
Stage 1	-1.8	0	0
Stage 1	-2	0	0
Stage 1	-2.1	0	0
Stage 1	-2.3	0	0
Stage 1	-2.5	0	0
Stage 1	-2.7	0	0
Stage 1	-2.9	0	0
Stage 1	-3.1	0	0
Stage 1	-3.3	0	0
Stage 1	-3.5	0	0
Stage 1	-3.7	0	0
Stage 1	-3.9	0	0
Stage 1	-4.1	0	0
Stage 1	-4.3	0	0
Stage 1	-4.5	0	0
Stage 1	-4.7	0	0
Stage 1	-4.9	0	0
Stage 1	-5.1	0	0
Stage 1	-5.3	0	0
Stage 1	-5.5	0	0
Stage 1	-5.7	0	0
Stage 1	-5.9	0	0
Stage 1	-6.1	0	0
Stage 1	-6.3	0	0
Stage 1	-6.5	0	0
Stage 1	-6.7	0	0
Stage 1	-6.9	0	0
Stage 1	-7.1	0	0
Stage 1	-7.3	0	0
Stage 1	-7.5	0	0
Stage 1	-7.7	0	0
Stage 1	-7.9	0	0
Stage 1	-8.1	0	0
Stage 1	-8.3	0	0
Stage 1	-8.5	0	0
Stage 1	-8.7	0	0
Stage 1	-8.9	0	0

Design Assumption: Nominal Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 1	-9.1	0	0
Stage 1	-9.3	0	0
Stage 1	-9.5	0	0
Stage 1	-9.7	0	0
Stage 1	-9.9	0	0
Stage 1	-10.1	0	0
Stage 1	-10.3	0	0
Stage 1	-10.5	0	0
Stage 1	-10.7	0	0
Stage 1	-10.9	0	0
Stage 1	-11.1	0	0
Stage 1	-11.3	0	0
Stage 1	-11.5	0	0
Stage 1	-11.7	0	0
Stage 1	-11.9	0	0
Stage 1	-12.1	0	0
Stage 1	-12.3	0	0
Stage 1	-12.5	0	0
Stage 1	-12.7	0	0
Stage 1	-12.9	0	0
Stage 1	-13.1	0	0
Stage 1	-13.3	0	0
Stage 1	-13.5	0	0
Stage 1	-13.7	0	0
Stage 1	-13.9	0	0
Stage 1	-14.1	0	0
Stage 1	-14.3	0	0
Stage 1	-14.5	0	0
Stage 1	-14.7	0	0
Stage 1	-14.9	0	0
Stage 1	-15.1	0	0
Stage 1	-15.3	0	0
Stage 1	-15.5	0	0
Stage 1	-15.7	0	0
Stage 1	-15.9	0	0
Stage 1	-16	0	0

Tabella Risultati Paratia Nominal - Stage: Stage 2

Design Assumption: Nominal Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 2	2	0	0
Stage 2	1.8	0	0
Stage 2	1.8	0	0
Stage 2	1.6	0	0
Stage 2	1.6	0	0
Stage 2	1.4	0	0
Stage 2	1.4	0	0
Stage 2	1.2	0	0
Stage 2	1.2	0	0
Stage 2	1	0	0
Stage 2	1	0	0
Stage 2	0.8	0	0
Stage 2	0.8	0	0
Stage 2	0.6	0	0
Stage 2	0.6	0	0
Stage 2	0.4	0	0
Stage 2	0.4	0	0
Stage 2	0.2	-0.05	-0.24
Stage 2	0	-0.24	-0.98
Stage 2	-0.2	-0.68	-2.2
Stage 2	-0.4	-1.46	-3.91
Stage 2	-0.6	-2.68	-6.1
Stage 2	-0.8	-4.44	-8.79
Stage 2	-1	-6.83	-11.96
Stage 2	-1.2	-9.96	-15.62
Stage 2	-1.4	-13.91	-19.77
Stage 2	-1.6	-18.79	-24.41
Stage 2	-1.8	-24.7	-29.53
Stage 2	-2	-31.73	-35.15
Stage 2	-2.1	-35.45	-37.21
Stage 2	-2.3	-43.33	-39.38
Stage 2	-2.5	-51.83	-42.53
Stage 2	-2.7	-61.02	-45.95
Stage 2	-2.9	-70.95	-49.64
Stage 2	-3.1	-81.67	-53.6
Stage 2	-3.3	-92.82	-55.75
Stage 2	-3.5	-103.77	-54.73
Stage 2	-3.7	-113.88	-50.56
Stage 2	-3.9	-122.57	-43.46
Stage 2	-4.1	-129.86	-36.46
Stage 2	-4.3	-135.78	-29.56
Stage 2	-4.5	-140.32	-22.73
Stage 2	-4.7	-143.52	-15.98
Stage 2	-4.9	-145.39	-9.37
Stage 2	-5.1	-146.08	-3.45
Stage 2	-5.3	-145.72	1.82
Stage 2	-5.5	-144.42	6.48
Stage 2	-5.7	-142.31	10.57
Stage 2	-5.9	-139.48	14.12
Stage 2	-6.1	-136.05	17.16
Stage 2	-6.3	-132.1	19.74
Stage 2	-6.5	-127.73	21.88
Stage 2	-6.7	-123	23.62
Stage 2	-6.9	-118	25
Stage 2	-7.1	-112.79	26.05
Stage 2	-7.3	-107.44	26.78
Stage 2	-7.5	-101.99	27.25
Stage 2	-7.7	-96.5	27.46
Stage 2	-7.9	-91	27.49
Stage 2	-8.1	-85.53	27.33
Stage 2	-8.3	-80.13	27
Stage 2	-8.5	-74.83	26.53
Stage 2	-8.7	-69.64	25.92
Stage 2	-8.9	-64.6	25.2
Stage 2	-9.1	-59.72	24.39
Stage 2	-9.3	-55.02	23.51
Stage 2	-9.5	-50.51	22.57

Design Assumption: Nominal Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 2	-9.7	-46.19	21.58
Stage 2	-9.9	-42.08	20.56
Stage 2	-10.1	-38.17	19.51
Stage 2	-10.3	-34.48	18.45
Stage 2	-10.5	-31.01	17.38
Stage 2	-10.7	-27.74	16.32
Stage 2	-10.9	-24.69	15.26
Stage 2	-11.1	-21.85	14.22
Stage 2	-11.3	-19.21	13.2
Stage 2	-11.5	-16.76	12.21
Stage 2	-11.7	-14.51	11.25
Stage 2	-11.9	-12.45	10.32
Stage 2	-12.1	-10.56	9.43
Stage 2	-12.3	-8.85	8.59
Stage 2	-12.5	-7.29	7.78
Stage 2	-12.7	-5.88	7.02
Stage 2	-12.9	-4.62	6.31
Stage 2	-13.1	-3.49	5.65
Stage 2	-13.3	-2.55	4.73
Stage 2	-13.5	-1.77	3.88
Stage 2	-13.7	-1.15	3.11
Stage 2	-13.9	-0.66	2.42
Stage 2	-14.1	-0.3	1.8
Stage 2	-14.3	-0.05	1.27
Stage 2	-14.5	0.11	0.81
Stage 2	-14.7	0.2	0.43
Stage 2	-14.9	0.22	0.13
Stage 2	-15.1	0.2	-0.09
Stage 2	-15.3	0.16	-0.23
Stage 2	-15.5	0.1	-0.29
Stage 2	-15.7	0.04	-0.28
Stage 2	-15.9	0.01	-0.19
Stage 2	-16	0	-0.06

Tabella Risultati Paratia Nominal - Stage: Tirante 1

Design Assumption: Nominal Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Tirante 1	2	0	0
Tirante 1	1.8	0	0
Tirante 1	1.8	0	0
Tirante 1	1.6	0	0
Tirante 1	1.6	0	0
Tirante 1	1.4	0	0
Tirante 1	1.4	0	0
Tirante 1	1.2	0	0
Tirante 1	1.2	0	0
Tirante 1	1	0	0
Tirante 1	1	0	0
Tirante 1	0.8	0	0
Tirante 1	0.8	0	0
Tirante 1	0.6	0	0
Tirante 1	0.6	0	0
Tirante 1	0.4	0	0
Tirante 1	0.4	0	0
Tirante 1	0.2	-0.15	-0.74
Tirante 1	0	-0.74	-2.96
Tirante 1	-0.2	-1.94	-6
Tirante 1	-0.4	-3.84	-9.52
Tirante 1	-0.6	-6.55	-13.53
Tirante 1	-0.8	-10.15	-18.02
Tirante 1	-1	-14.75	-23
Tirante 1	-1.2	-20.45	-28.46
Tirante 1	-1.4	-27.33	-34.42
Tirante 1	-1.6	-35.5	-40.85
Tirante 1	-1.8	-45.05	-47.77
Tirante 1	-2	-56.09	-55.18
Tirante 1	-2.1	-62.25	-61.62
Tirante 1	-2.3	-53.79	42.32
Tirante 1	-2.5	-47.06	33.63
Tirante 1	-2.7	-42.08	24.88
Tirante 1	-2.9	-38.87	16.07
Tirante 1	-3.1	-37.43	7.19
Tirante 1	-3.3	-37.78	-1.76
Tirante 1	-3.5	-39.52	-8.66
Tirante 1	-3.7	-41.9	-11.94
Tirante 1	-3.9	-44.28	-11.88
Tirante 1	-4.1	-46.56	-11.42
Tirante 1	-4.3	-48.66	-10.47
Tirante 1	-4.5	-50.47	-9.04
Tirante 1	-4.7	-51.9	-7.15
Tirante 1	-4.9	-52.88	-4.9
Tirante 1	-5.1	-53.45	-2.86
Tirante 1	-5.3	-53.65	-1.01
Tirante 1	-5.5	-53.52	0.64
Tirante 1	-5.7	-53.1	2.12
Tirante 1	-5.9	-52.42	3.42
Tirante 1	-6.1	-51.5	4.57
Tirante 1	-6.3	-50.39	5.56
Tirante 1	-6.5	-49.11	6.41
Tirante 1	-6.7	-47.68	7.13
Tirante 1	-6.9	-46.14	7.73
Tirante 1	-7.1	-44.49	8.21
Tirante 1	-7.3	-42.78	8.58
Tirante 1	-7.5	-41.01	8.86
Tirante 1	-7.7	-39.2	9.04
Tirante 1	-7.9	-37.36	9.18
Tirante 1	-8.1	-35.51	9.25
Tirante 1	-8.3	-33.66	9.27
Tirante 1	-8.5	-31.81	9.23
Tirante 1	-8.7	-29.98	9.14
Tirante 1	-8.9	-28.18	9.01
Tirante 1	-9.1	-26.41	8.84
Tirante 1	-9.3	-24.68	8.64
Tirante 1	-9.5	-23	8.41

Design Assumption: Nominal Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Tirante 1	-9.7	-21.37	8.16
Tirante 1	-9.9	-19.79	7.89
Tirante 1	-10.1	-18.27	7.61
Tirante 1	-10.3	-16.81	7.31
Tirante 1	-10.5	-15.41	7
Tirante 1	-10.7	-14.07	6.69
Tirante 1	-10.9	-12.8	6.37
Tirante 1	-11.1	-11.59	6.04
Tirante 1	-11.3	-10.45	5.72
Tirante 1	-11.5	-9.37	5.4
Tirante 1	-11.7	-8.35	5.08
Tirante 1	-11.9	-7.4	4.77
Tirante 1	-12.1	-6.5	4.46
Tirante 1	-12.3	-5.67	4.17
Tirante 1	-12.5	-4.89	3.88
Tirante 1	-12.7	-4.17	3.6
Tirante 1	-12.9	-3.51	3.34
Tirante 1	-13.1	-2.89	3.08
Tirante 1	-13.3	-2.35	2.71
Tirante 1	-13.5	-1.88	2.35
Tirante 1	-13.7	-1.47	2.02
Tirante 1	-13.9	-1.13	1.71
Tirante 1	-14.1	-0.85	1.43
Tirante 1	-14.3	-0.61	1.17
Tirante 1	-14.5	-0.43	0.93
Tirante 1	-14.7	-0.28	0.72
Tirante 1	-14.9	-0.17	0.54
Tirante 1	-15.1	-0.1	0.38
Tirante 1	-15.3	-0.05	0.24
Tirante 1	-15.5	-0.02	0.15
Tirante 1	-15.7	0	0.07
Tirante 1	-15.9	0	0.02
Tirante 1	-16	0	0

Tabella Risultati Paratia Nominal - Stage: Stage 4

Design Assumption: Nominal Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 4	2	0	0
Stage 4	1.8	0	0
Stage 4	1.8	0	0
Stage 4	1.6	0	0
Stage 4	1.6	0	0
Stage 4	1.4	0	0
Stage 4	1.4	0	0
Stage 4	1.2	0	0
Stage 4	1.2	0	0
Stage 4	1	0	0
Stage 4	1	0	0
Stage 4	0.8	0	0
Stage 4	0.8	0	0
Stage 4	0.6	0	0
Stage 4	0.6	0	0
Stage 4	0.4	0	0
Stage 4	0.4	0	0
Stage 4	0.2	-0.05	-0.24
Stage 4	0	-0.24	-0.98
Stage 4	-0.2	-0.68	-2.2
Stage 4	-0.4	-1.46	-3.91
Stage 4	-0.6	-2.68	-6.1
Stage 4	-0.8	-4.44	-8.79
Stage 4	-1	-6.83	-11.96
Stage 4	-1.2	-9.96	-15.62
Stage 4	-1.4	-13.91	-19.77
Stage 4	-1.6	-18.79	-24.41
Stage 4	-1.8	-24.7	-29.53
Stage 4	-2	-31.73	-35.15
Stage 4	-2.1	-35.45	-37.21
Stage 4	-2.3	-19.74	78.56
Stage 4	-2.5	-4.66	75.41
Stage 4	-2.7	9.74	71.99
Stage 4	-2.9	23.4	68.3
Stage 4	-3.1	36.27	64.34
Stage 4	-3.3	48.29	60.12
Stage 4	-3.5	59.42	55.64
Stage 4	-3.7	69.6	50.88
Stage 4	-3.9	78.77	45.86
Stage 4	-4.1	86.88	40.57
Stage 4	-4.3	93.89	35.02
Stage 4	-4.5	99.72	29.19
Stage 4	-4.7	104.35	23.11
Stage 4	-4.9	107.7	16.75
Stage 4	-5.1	109.72	10.13
Stage 4	-5.3	110.37	3.24
Stage 4	-5.5	109.58	-3.92
Stage 4	-5.7	107.32	-11.34
Stage 4	-5.9	103.51	-19.03
Stage 4	-6.1	98.11	-26.99
Stage 4	-6.3	91.07	-35.22
Stage 4	-6.5	82.33	-43.71
Stage 4	-6.7	71.83	-52.47
Stage 4	-6.9	59.53	-61.5
Stage 4	-7.1	45.37	-70.79
Stage 4	-7.3	29.3	-80.35
Stage 4	-7.5	12.37	-84.68
Stage 4	-7.7	-4.8	-85.84
Stage 4	-7.9	-21.57	-83.84
Stage 4	-8.1	-37.32	-78.76
Stage 4	-8.3	-51.52	-71.01
Stage 4	-8.5	-63.93	-62.04
Stage 4	-8.7	-74.65	-53.58
Stage 4	-8.9	-83.77	-45.61
Stage 4	-9.1	-91.39	-38.12
Stage 4	-9.3	-97.61	-31.1
Stage 4	-9.5	-102.52	-24.54

Design Assumption: Nominal Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 4	-9.7	-106.21	-18.43
Stage 4	-9.9	-108.76	-12.76
Stage 4	-10.1	-110.26	-7.5
Stage 4	-10.3	-110.79	-2.66
Stage 4	-10.5	-110.44	1.78
Stage 4	-10.7	-109.27	5.84
Stage 4	-10.9	-107.36	9.53
Stage 4	-11.1	-104.79	12.86
Stage 4	-11.3	-101.62	15.85
Stage 4	-11.5	-97.92	18.5
Stage 4	-11.7	-93.75	20.84
Stage 4	-11.9	-89.18	22.86
Stage 4	-12.1	-84.26	24.59
Stage 4	-12.3	-79.06	26.04
Stage 4	-12.5	-73.62	27.21
Stage 4	-12.7	-67.99	28.1
Stage 4	-12.9	-62.25	28.74
Stage 4	-13.1	-56.42	29.12
Stage 4	-13.3	-50.56	29.3
Stage 4	-13.5	-44.74	29.11
Stage 4	-13.7	-39.04	28.52
Stage 4	-13.9	-33.51	27.61
Stage 4	-14.1	-28.23	26.43
Stage 4	-14.3	-23.23	24.97
Stage 4	-14.5	-18.59	23.24
Stage 4	-14.7	-14.34	21.25
Stage 4	-14.9	-10.54	19
Stage 4	-15.1	-7.24	16.49
Stage 4	-15.3	-4.49	13.72
Stage 4	-15.5	-2.35	10.7
Stage 4	-15.7	-0.87	7.41
Stage 4	-15.9	-0.1	3.86
Stage 4	-16	0	0.99

Tabella Risultati Paratia Nominal - Stage: Tirante 2

Design Assumption: Nominal Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Tirante 2	2	0	0
Tirante 2	1.8	0	0
Tirante 2	1.8	0	0
Tirante 2	1.6	0	0
Tirante 2	1.6	0	0
Tirante 2	1.4	0	0
Tirante 2	1.4	0	0
Tirante 2	1.2	0	0
Tirante 2	1.2	0	0
Tirante 2	1	0	0
Tirante 2	1	0	0
Tirante 2	0.8	0	0
Tirante 2	0.8	0	0
Tirante 2	0.6	0	0
Tirante 2	0.6	0	0
Tirante 2	0.4	0	0
Tirante 2	0.4	0	0
Tirante 2	0.2	-0.1	-0.52
Tirante 2	0	-0.41	-1.53
Tirante 2	-0.2	-1.02	-3.06
Tirante 2	-0.4	-2.04	-5.08
Tirante 2	-0.6	-3.56	-7.6
Tirante 2	-0.8	-5.68	-10.63
Tirante 2	-1	-8.51	-14.16
Tirante 2	-1.2	-12.15	-18.19
Tirante 2	-1.4	-16.7	-22.72
Tirante 2	-1.6	-22.25	-27.76
Tirante 2	-1.8	-28.91	-33.29
Tirante 2	-2	-36.77	-39.33
Tirante 2	-2.1	-41.06	-42.88
Tirante 2	-2.3	-27.03	70.17
Tirante 2	-2.5	-14.04	64.94
Tirante 2	-2.7	-2.16	59.39
Tirante 2	-2.9	8.54	53.52
Tirante 2	-3.1	18	47.31
Tirante 2	-3.3	26.16	40.79
Tirante 2	-3.5	32.95	33.94
Tirante 2	-3.7	38.3	26.77
Tirante 2	-3.9	42.16	19.28
Tirante 2	-4.1	44.46	11.48
Tirante 2	-4.3	45.13	3.36
Tirante 2	-4.5	44.12	-5.06
Tirante 2	-4.7	41.36	-13.79
Tirante 2	-4.9	36.8	-22.82
Tirante 2	-5.1	30.37	-32.14
Tirante 2	-5.3	22.02	-41.75
Tirante 2	-5.5	11.69	-51.65
Tirante 2	-5.7	-0.68	-61.82
Tirante 2	-5.9	-15.13	-72.25
Tirante 2	-6.1	-31.72	-82.94
Tirante 2	-6.3	-25.49	31.12
Tirante 2	-6.5	-21.5	19.94
Tirante 2	-6.7	-19.8	8.54
Tirante 2	-6.9	-20.41	-3.08
Tirante 2	-7.1	-23.39	-14.91
Tirante 2	-7.3	-28.78	-26.94
Tirante 2	-7.5	-35.84	-35.27
Tirante 2	-7.7	-43.9	-40.32
Tirante 2	-7.9	-52.31	-42.06
Tirante 2	-8.1	-60.43	-40.59
Tirante 2	-8.3	-67.69	-36.3
Tirante 2	-8.5	-73.82	-30.66
Tirante 2	-8.7	-78.9	-25.37
Tirante 2	-8.9	-82.98	-20.43
Tirante 2	-9.1	-86.15	-15.82
Tirante 2	-9.3	-88.45	-11.53
Tirante 2	-9.5	-89.96	-7.55

Design Assumption: Nominal Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Tirante 2	-9.7	-90.74	-3.87
Tirante 2	-9.9	-90.83	-0.48
Tirante 2	-10.1	-90.3	2.63
Tirante 2	-10.3	-89.21	5.47
Tirante 2	-10.5	-87.6	8.05
Tirante 2	-10.7	-85.53	10.38
Tirante 2	-10.9	-83.03	12.47
Tirante 2	-11.1	-80.17	14.33
Tirante 2	-11.3	-76.97	15.97
Tirante 2	-11.5	-73.49	17.4
Tirante 2	-11.7	-69.77	18.63
Tirante 2	-11.9	-65.83	19.66
Tirante 2	-12.1	-61.73	20.51
Tirante 2	-12.3	-57.5	21.18
Tirante 2	-12.5	-53.16	21.68
Tirante 2	-12.7	-48.76	22.01
Tirante 2	-12.9	-44.32	22.18
Tirante 2	-13.1	-39.88	22.19
Tirante 2	-13.3	-35.49	21.96
Tirante 2	-13.5	-31.19	21.48
Tirante 2	-13.7	-27.04	20.75
Tirante 2	-13.9	-23.08	19.83
Tirante 2	-14.1	-19.33	18.75
Tirante 2	-14.3	-15.82	17.52
Tirante 2	-14.5	-12.59	16.15
Tirante 2	-14.7	-9.67	14.63
Tirante 2	-14.9	-7.07	12.97
Tirante 2	-15.1	-4.84	11.17
Tirante 2	-15.3	-2.99	9.23
Tirante 2	-15.5	-1.56	7.15
Tirante 2	-15.7	-0.58	4.93
Tirante 2	-15.9	-0.07	2.55
Tirante 2	-16	0	0.65

Tabella Risultati Paratia Nominal - Stage: Fondo scavo

Design Assumption: Nominal Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Fondo scavo	2	0	0
Fondo scavo	1.8	0	0
Fondo scavo	1.8	0	0
Fondo scavo	1.6	-0.1	-0.49
Fondo scavo	1.4	-0.39	-1.46
Fondo scavo	1.2	-0.98	-2.93
Fondo scavo	1	-1.95	-4.88
Fondo scavo	0.8	-3.42	-7.32
Fondo scavo	0.6	-5.47	-10.25
Fondo scavo	0.4	-8.2	-13.66
Fondo scavo	0.2	-11.71	-17.57
Fondo scavo	0	-16.1	-21.96
Fondo scavo	-0.2	-21.47	-26.84
Fondo scavo	-0.4	-27.91	-32.21
Fondo scavo	-0.6	-35.53	-38.07
Fondo scavo	-0.8	-44.41	-44.41
Fondo scavo	-1	-54.66	-51.24
Fondo scavo	-1.2	-66.37	-58.56
Fondo scavo	-1.4	-79.65	-66.37
Fondo scavo	-1.6	-94.58	-74.67
Fondo scavo	-1.8	-111.27	-83.46
Fondo scavo	-2	-129.82	-92.73
Fondo scavo	-2.1	-139.45	-96.3
Fondo scavo	-2.3	-127.49	59.78
Fondo scavo	-2.5	-116.56	54.63
Fondo scavo	-2.7	-106.72	49.21
Fondo scavo	-2.9	-98.02	43.53
Fondo scavo	-3.1	-90.5	37.58
Fondo scavo	-3.3	-84.23	31.36
Fondo scavo	-3.5	-79.26	24.87
Fondo scavo	-3.7	-75.63	18.12
Fondo scavo	-3.9	-73.41	11.1
Fondo scavo	-4.1	-72.65	3.81
Fondo scavo	-4.3	-73.4	-3.74
Fondo scavo	-4.5	-75.71	-11.56
Fondo scavo	-4.7	-79.64	-19.65
Fondo scavo	-4.9	-85.24	-28
Fondo scavo	-5.1	-92.56	-36.62
Fondo scavo	-5.3	-101.67	-45.51
Fondo scavo	-5.5	-112.6	-54.66
Fondo scavo	-5.7	-125.42	-64.09
Fondo scavo	-5.9	-140.17	-73.77
Fondo scavo	-6.1	-156.92	-83.73
Fondo scavo	-6.3	-144.94	59.87
Fondo scavo	-6.5	-135.07	49.38
Fondo scavo	-6.7	-127.34	38.62
Fondo scavo	-6.9	-121.82	27.6
Fondo scavo	-7.1	-118.56	16.31
Fondo scavo	-7.3	-117.61	4.75
Fondo scavo	-7.5	-119.03	-7.08
Fondo scavo	-7.7	-122.86	-19.17
Fondo scavo	-7.9	-129.17	-31.54
Fondo scavo	-8.1	-138	-44.16
Fondo scavo	-8.3	-149.41	-57.06
Fondo scavo	-8.5	-163.46	-70.22
Fondo scavo	-8.7	-180.19	-83.66
Fondo scavo	-8.9	-198.56	-91.85
Fondo scavo	-9.1	-217.94	-96.89
Fondo scavo	-9.3	-237.69	-98.76
Fondo scavo	-9.5	-257.19	-97.47
Fondo scavo	-9.7	-275.79	-93.02
Fondo scavo	-9.9	-292.87	-85.4
Fondo scavo	-10.1	-307.8	-74.63
Fondo scavo	-10.3	-319.93	-60.68
Fondo scavo	-10.5	-329.04	-45.52
Fondo scavo	-10.7	-335.18	-30.73
Fondo scavo	-10.9	-338.45	-16.33

Design Assumption: Nominal Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Fondo scavo	-11.1	-338.9	-2.28
Fondo scavo	-11.3	-336.62	11.42
Fondo scavo	-11.5	-331.67	24.78
Fondo scavo	-11.7	-324.1	37.81
Fondo scavo	-11.9	-314.18	49.6
Fondo scavo	-12.1	-302.18	60.03
Fondo scavo	-12.3	-288.35	69.13
Fondo scavo	-12.5	-272.97	76.93
Fondo scavo	-12.7	-256.27	83.46
Fondo scavo	-12.9	-238.52	88.76
Fondo scavo	-13.1	-219.95	92.84
Fondo scavo	-13.3	-200.36	97.98
Fondo scavo	-13.5	-180.07	101.43
Fondo scavo	-13.7	-159.42	103.24
Fondo scavo	-13.9	-138.73	103.47
Fondo scavo	-14.1	-118.32	102.02
Fondo scavo	-14.3	-98.56	98.84
Fondo scavo	-14.5	-79.77	93.94
Fondo scavo	-14.7	-62.25	87.6
Fondo scavo	-14.9	-46.27	79.88
Fondo scavo	-15.1	-32.14	70.67
Fondo scavo	-15.3	-20.16	59.87
Fondo scavo	-15.5	-10.67	47.48
Fondo scavo	-15.7	-3.99	33.41
Fondo scavo	-15.9	-0.46	17.65
Fondo scavo	-16	0	4.57

Inviluppi Risultati Paratia Nominal

Tabella Inviluppi Momento Nominal WallElement

Risultato	Inviluppi	Momento
WallElement	Muro Left Wall	
2	0	0
1.8	0	0
1.6	0.098	0
1.4	0.39	0
1.2	0.976	0
1	1.952	0
0.8	3.416	0
0.6	5.466	0
0.4	8.199	0
0.2	11.712	0
0	16.104	0
-0.2	21.473	0
-0.4	27.914	0
-0.6	35.528	0
-0.8	44.41	0
-1	54.658	0
-1.2	66.371	0
-1.4	79.646	0
-1.6	94.581	0
-1.8	111.272	0
-2	129.818	0
-2.1	139.448	0
-2.3	127.491	0
-2.5	116.565	0
-2.7	106.722	9.74
-2.9	98.016	23.399
-3.1	90.501	36.268
-3.3	92.821	48.293
-3.5	103.768	59.42
-3.7	113.879	69.596
-3.9	122.571	78.768
-4.1	129.864	86.882
-4.3	135.776	93.885
-4.5	140.322	99.724
-4.7	143.518	104.345
-4.9	145.392	107.695
-5.1	146.082	109.721
-5.3	145.717	110.368
-5.5	144.42	109.584
-5.7	142.307	107.316
-5.9	140.17	103.509
-6.1	156.916	98.11
-6.3	144.942	91.067
-6.5	135.066	82.325
-6.7	127.341	71.831
-6.9	121.822	59.532
-7.1	118.56	45.374
-7.3	117.611	29.304
-7.5	119.027	12.368
-7.7	122.862	0
-7.9	129.169	0
-8.1	138.002	0
-8.3	149.414	0
-8.5	163.459	0
-8.7	180.19	0
-8.9	198.561	0
-9.1	217.939	0
-9.3	237.691	0
-9.5	257.186	0
-9.7	275.79	0
-9.9	292.87	0
-10.1	307.796	0
-10.3	319.932	0
-10.5	329.036	0

Risultato	Involuppi	Momento
WallElement	Muro Left Wall	
-10.7	335.182	0
-10.9	338.448	0
-11.1	338.904	0
-11.3	336.62	0
-11.5	331.665	0
-11.7	324.103	0
-11.9	314.183	0
-12.1	302.176	0
-12.3	288.351	0
-12.5	272.966	0
-12.7	256.274	0
-12.9	238.522	0
-13.1	219.954	0
-13.3	200.358	0
-13.5	180.071	0
-13.7	159.424	0
-13.9	138.729	0
-14.1	118.324	0
-14.3	98.556	0
-14.5	79.769	0.11
-14.7	62.248	0.196
-14.9	46.272	0.222
-15.1	32.137	0.205
-15.3	20.163	0.159
-15.5	10.668	0.1
-15.7	3.987	0.043
-15.9	0.457	0.006
-16	0	0

Tabella Involuppi Taglio Nominal WallElement

Risultato WallElement	Involuppi Muro Left Wall	Taglio
2	0	0
1.8	0	0
1.6	0.098	0
1.4	0.39	0
1.2	0.976	0
1	1.952	0
0.8	3.416	0
0.6	5.466	0
0.4	8.199	0
0.2	11.712	0
0	16.104	0
-0.2	21.473	0
-0.4	27.914	0
-0.6	35.528	0
-0.8	44.41	0
-1	54.658	0
-1.2	66.371	0
-1.4	79.646	0
-1.6	94.581	0
-1.8	111.272	0
-2	129.818	0
-2.1	139.448	0
-2.3	127.491	0
-2.5	116.565	0
-2.7	106.722	9.74
-2.9	98.016	23.399
-3.1	90.501	36.268
-3.3	92.821	48.293
-3.5	103.768	59.42
-3.7	113.879	69.596
-3.9	122.571	78.768
-4.1	129.864	86.882
-4.3	135.776	93.885
-4.5	140.322	99.724
-4.7	143.518	104.345
-4.9	145.392	107.695
-5.1	146.082	109.721
-5.3	145.717	110.368
-5.5	144.42	109.584
-5.7	142.307	107.316
-5.9	140.17	103.509
-6.1	156.916	98.11
-6.3	144.942	91.067
-6.5	135.066	82.325
-6.7	127.341	71.831
-6.9	121.822	59.532
-7.1	118.56	45.374
-7.3	117.611	29.304
-7.5	119.027	12.368
-7.7	122.862	0
-7.9	129.169	0
-8.1	138.002	0
-8.3	149.414	0
-8.5	163.459	0
-8.7	180.19	0
-8.9	198.561	0
-9.1	217.939	0
-9.3	237.691	0
-9.5	257.186	0
-9.7	275.79	0
-9.9	292.87	0
-10.1	307.796	0
-10.3	319.932	0
-10.5	329.036	0
-10.7	335.182	0
-10.9	338.448	0
-11.1	338.904	0

Risultato	Inviluppi	Taglio
WallElement Muro Left Wall		
-11.3	336.62	0
-11.5	331.665	0
-11.7	324.103	0
-11.9	314.183	0
-12.1	302.176	0
-12.3	288.351	0
-12.5	272.966	0
-12.7	256.274	0
-12.9	238.522	0
-13.1	219.954	0
-13.3	200.358	0
-13.5	180.071	0
-13.7	159.424	0
-13.9	138.729	0
-14.1	118.324	0
-14.3	98.556	0
-14.5	79.769	0.11
-14.7	62.248	0.196
-14.9	46.272	0.222
-15.1	32.137	0.205
-15.3	20.163	0.159
-15.5	10.668	0.1
-15.7	3.987	0.043
-15.9	0.457	0.006
-16	0	0

Risultati Elementi strutturali

Design Assumption: Nominal Sollecitazione Tieback	
Stage	Forza (kN/m)
Tirante 1	110.4
Stage 4	117.9402
Tirante 2	116.7238
Fondo scavo	159.745

Design Assumption: Nominal Sollecitazione Tieback

Stage	Forza (kN/m)
Tirante 2	125
Fondo scavo	153.8245

Riepilogo spinte

Design Assumption: Tipo Risultato: Riepilogo spinte		Muro:	LEFT	Lato	LEFT		
Nominal 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
Stage 1	1516.2	7.2	1523.4	841.1	11014.9	13.76%	1.8
Stage 2	1437.1	7.2	1444.4	841.1	11014.9	13.05%	1.71
Tirante 1	1523.6	7.2	1530.8	841.1	11014.9	13.83%	1.81
Stage 4	1286.9	7.2	1294.1	841.1	11014.9	11.68%	1.53
Tirante 2	1389.6	7.2	1396.9	841.1	11014.9	12.62%	1.65
Fondo scavo	1386.9	0	1386.9	1049.1	12930.8	10.73%	1.32

Design Assumption: Tipo Risultato: Riepilogo spinte		Muro:	LEFT	Lato	RIGHT		
Nominal 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
Stage 1	1516.2	7.2	1523.4	838.6	10989.2	13.8%	1.81
Stage 2	1437.1	7.2	1444.4	458.5	6809.7	21.1%	3.13
Tirante 1	1413.2	7.2	1420.4	458.5	6809.7	20.75%	3.08
Stage 4	1168.9	7.2	1176.2	162.2	3282.9	35.61%	7.21
Tirante 2	1147.9	7.2	1155.2	162.2	3282.9	34.97%	7.08
Fondo scavo	1073.3	0	1073.3	86.7	2396.8	44.78%	12.38

Allegati

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

```
* PARATIE ANALYSIS FOR DESIGN SECTION:Base Design Section USING ASSUMPTION: Nominal
* Time:lunedì 29 giugno 2020 17:21:59
* 1: Defining general settings
UNIT m kN
TITLE New Project
DELTA 0.2
option param itemax 40

* 2: Defining wall(s)
WALL LeftWall_29 0 -16 2 1

* 3: Defining surfaces for wall(s)
SOIL 0_L LeftWall_29 -16 2 1 0
SOIL 0_R LeftWall_29 -16 2 2 180

* 4: Defining soil layers
*
* Soil Profile (FRANA_334_8_L_0)
*
LDATA FRANA_334_8_L_0 2 LeftWall_29
ATREST 0.758 1 1
WEIGHT 20 10 10
PERMEABILITY 1E-05
RESISTANCE 0 14
YOUNG 1.5E+04 2.4E+04
ENDDL
*
* Soil Profile (BNA3(2)_335_337_L_0)
*
LDATA BNA3(2)_335_337_L_0 -2 LeftWall_29
ATREST 0.5 1 1
WEIGHT 20 10 10
PERMEABILITY 1E-05
RESISTANCE 2.5 30
YOUNG 5E+04 8E+04
ENDDL
*
* Soil Profile (BNA3(3)_336_338_L_0)
*
LDATA BNA3(3)_336_338_L_0 -13 LeftWall_29
ATREST 0.577 1 1
WEIGHT 20 10 10
PERMEABILITY 1E-05
RESISTANCE 30 25
YOUNG 7.5E+04 1.2E+05
ENDDL

* 5: Defining structural materials
* Steel material: 2753 Name=Fe360 E=206000200 kPa
MATERIAL Fe360_2753 2.06E+08
* Concrete material: 101 Name=C25/30 E=31475800 kPa
MATERIAL C2530_101 3.148E+07
* Rebar material: 110 Name=acciaio armonico E=200100000 kPa
MATERIAL acciaioarmonico_110 2.001E+08

* 6: Defining structural elements
* 6.1: Beams
BEAM WallElement_30 LeftWall_29 -16 2 C2530_101 0.7888 00 00

* 6.2: Supports
WIRE Tieback_341 LeftWall_29 -2.1 acciaioarmonico_110 8.274E-06 110.4 0 0 0
WIRE Tieback_342 LeftWall_29 -6.1 acciaioarmonico_110 9.145E-06 125 0 0 0

* 6.3: Strips
STRIP LeftWall_29 1 6 31 30.5 2 54.6 45

* 7: Defining Steps
STEP Stage1_28
CHANGE FRANA_334_8_L_0 U-FRICT=14 LeftWall_29
CHANGE FRANA_334_8_L_0 D-FRICT=14 LeftWall_29
CHANGE FRANA_334_8_L_0 U-KA=0.61 LeftWall_29
CHANGE FRANA_334_8_L_0 U-KP=1.85 LeftWall_29
CHANGE FRANA_334_8_L_0 D-KA=0.61 LeftWall_29
CHANGE FRANA_334_8_L_0 D-KP=1.85 LeftWall_29
CHANGE BNA3(2)_335_337_L_0 U-FRICT=30 LeftWall_29
CHANGE BNA3(2)_335_337_L_0 D-FRICT=30 LeftWall_29
CHANGE BNA3(2)_335_337_L_0 U-KA=0.333 LeftWall_29
CHANGE BNA3(2)_335_337_L_0 U-KP=4.288 LeftWall_29
```

```

CHANGE BNA3(2)_335_337_L_0 D-KA=0.333 LeftWall_29
CHANGE BNA3(2)_335_337_L_0 D-KP=4.288 LeftWall_29
CHANGE BNA3(3)_336_338_L_0 U-FRICT=25 LeftWall_29
CHANGE BNA3(3)_336_338_L_0 D-FRICT=25 LeftWall_29
CHANGE BNA3(3)_336_338_L_0 U-KA=0.406 LeftWall_29
CHANGE BNA3(3)_336_338_L_0 U-KP=3.222 LeftWall_29
CHANGE BNA3(3)_336_338_L_0 D-KA=0.406 LeftWall_29
CHANGE BNA3(3)_336_338_L_0 D-KP=3.222 LeftWall_29
CHANGE FRANA_334_8_L_0 U-COHE=0 LeftWall_29
CHANGE FRANA_334_8_L_0 D-COHE=0 LeftWall_29
CHANGE BNA3(2)_335_337_L_0 U-COHE=2.5 LeftWall_29
CHANGE BNA3(2)_335_337_L_0 D-COHE=2.5 LeftWall_29
CHANGE BNA3(3)_336_338_L_0 U-COHE=30 LeftWall_29
CHANGE BNA3(3)_336_338_L_0 D-COHE=30 LeftWall_29
SETWALL LeftWall_29
GEOM 0.5 0.5
WATER -14.8 0 -16 0 0
ADD WallElement_30
ENDSTEP

```

```

STEP Stage2_344
CHANGE FRANA_334_8_L_0 D-FRICT=14 LeftWall_29
CHANGE BNA3(2)_335_337_L_0 D-FRICT=30 LeftWall_29
CHANGE BNA3(3)_336_338_L_0 D-FRICT=25 LeftWall_29
CHANGE FRANA_334_8_L_0 D-COHE=0 LeftWall_29
CHANGE BNA3(2)_335_337_L_0 D-COHE=2.5 LeftWall_29
CHANGE BNA3(3)_336_338_L_0 D-COHE=30 LeftWall_29
SETWALL LeftWall_29
GEOM 0.5 -3.1
WATER -14.8 0 -16 0 0
ENDSTEP

```

```

STEP Tirante1_1139
CHANGE FRANA_334_8_L_0 D-FRICT=14 LeftWall_29
CHANGE BNA3(2)_335_337_L_0 D-FRICT=30 LeftWall_29
CHANGE BNA3(3)_336_338_L_0 D-FRICT=25 LeftWall_29
CHANGE FRANA_334_8_L_0 D-COHE=0 LeftWall_29
CHANGE BNA3(2)_335_337_L_0 D-COHE=2.5 LeftWall_29
CHANGE BNA3(3)_336_338_L_0 D-COHE=30 LeftWall_29
SETWALL LeftWall_29
GEOM 0.5 -3.1
WATER -14.8 0 -16 0 0
ADD Tieback_341
ENDSTEP

```

```

STEP Stage4_1238
CHANGE FRANA_334_8_L_0 D-FRICT=14 LeftWall_29
CHANGE BNA3(2)_335_337_L_0 D-FRICT=30 LeftWall_29
CHANGE BNA3(3)_336_338_L_0 D-FRICT=25 LeftWall_29
CHANGE FRANA_334_8_L_0 D-COHE=0 LeftWall_29
CHANGE BNA3(2)_335_337_L_0 D-COHE=2.5 LeftWall_29
CHANGE BNA3(3)_336_338_L_0 D-COHE=30 LeftWall_29
SETWALL LeftWall_29
GEOM 0.5 -7.1
WATER -14.8 0 -16 0 0
ENDSTEP

```

```

STEP Tirante2_1685
CHANGE FRANA_334_8_L_0 D-FRICT=14 LeftWall_29
CHANGE BNA3(2)_335_337_L_0 D-FRICT=30 LeftWall_29
CHANGE BNA3(3)_336_338_L_0 D-FRICT=25 LeftWall_29
CHANGE FRANA_334_8_L_0 D-COHE=0 LeftWall_29
CHANGE BNA3(2)_335_337_L_0 D-COHE=2.5 LeftWall_29
CHANGE BNA3(3)_336_338_L_0 D-COHE=30 LeftWall_29
SETWALL LeftWall_29
GEOM 0.5 -7.1
WATER -14.8 0 -16 0 0
ADD Tieback_342
ENDSTEP

```

```

STEP Fondoscavo_2741
CHANGE FRANA_334_8_L_0 D-FRICT=14 LeftWall_29
CHANGE BNA3(2)_335_337_L_0 D-FRICT=30 LeftWall_29
CHANGE BNA3(3)_336_338_L_0 D-FRICT=25 LeftWall_29
CHANGE FRANA_334_8_L_0 D-COHE=0 LeftWall_29
CHANGE BNA3(2)_335_337_L_0 D-COHE=2.5 LeftWall_29
CHANGE BNA3(3)_336_338_L_0 D-COHE=30 LeftWall_29
SETWALL LeftWall_29
GEOM 2 -8.5
WATER -30 0 -16 0 0
ENDSTEP

```

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

```

+-----+
|                PARATIE PLUS 2014 NLS ENGINE RELEASE  2016  FULL VERSION  *Build date: Sept23, 2015*                |
|                                                                                                                                            |
|                NewProject.BaseDesignSection_25.Nominal_60                                                                              |
|                Exe Time :29 June 2020      17:22:00                                                                              |
+-----+

```

```

*****
*                                                                                                                                            *
*  PARATIE PLUS Non-Linear Spring Engine                                                                                                    *
*                                                                                                                                            *
*          AN ELASTOPLASTIC FINITE ELEMENT PROGRAM                                                                                          *
*          FOR FLEXIBLE EARTH-RETAINING STRUCTURES                                                                                          *
*                                                                                                                                            *
*          Written by Ce.A.S. s.r.l. (ITALY)                                                                                              *
*          with the scientific supervision of                                                                                              *
*          Roberto Nova - full professor SOIL MECHANICS                                                                                   *
*          at Politecnico di Milano (ITALY)                                                                                              *
*                                                                                                                                            *
*****
*  RELEASE  2016  *Build date: Sept23, 2015*                                                                                              *
*                                                                                                                                            *
*                                                                                                                                            *
*  Ce.A.S.   S.R.L  CENTRO DI ANALISI STRUTTURALE                                                                                          *
*                                                                                                                                            *
*          VIALE  GIUSTINIANO 10                                                                                                      *
*          20129  M I L A N O  (ITALIA)                                                                                                  *
*  TEL.     +39 02 2020221  (+39 035 23 67 19)                                                                                          *
*  FAX      +39 02 29512533  (+39 035 42285 49)                                                                                          *
*  email    bruno.becci@ceas.it                                                                                                      *
*  Web Page www.ceas.it                                                                                                                *
*****

```

```

JOB : NewProject.BaseDesignSection_25.Nominal_60
STARTING
ACCEPTED <FILE,GENW >
ACCEPTED <FILE,PLOTTER,BINARY >
ACCEPTED <SOLVE TOTAL STRESS >
ACCEPTED <PARAM ITEMAX 40 >

```

```

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

```

```

PRELIMINARY OPERATIONS CPU TIME      0.01 [sec]

```



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+-----+
|          PARATIE PLUS 2014 NLS ENGINE RELEASE  2016  FULL VERSION  *Build date: Sept23, 2015*          |
|                                                                                                                                            |
|                                                                 NewProject.BaseDesignSection_25.Nominal_60                               |
|                                                                 Exe Time :29 June 2020      17:22:00                               |
+-----+

```

INPUT FILE HAS BEEN GENERATED BY WALGEN PROGRAM

New Project

```

NO. OF NODAL POINTS (NUMNP) ..... 92
NO. OF COORDINATES (NCOORD)..... 2
NO. OF NODE DOFS (NDOF)..... 2
NO. OF EQUATIONS (NEQ)..... 184
NO. OF CONSTRAINTS CARDS (NVINC)..... 0
NO. OF ELEMENT GROUPS (NEG)..... 5
NO. OF SOLUTION STEPS (NSTE)..... 6
NO. OF ELEMENT SETS ATTACHED TO SLAVE NODES ... 0
NO. OF RECORD FROM WALGEN ..... 122
NO. OF LONG NAMES (LASTNAME) ..... 24
LENGTH UNIT CHOICE ..... 3 (M )
FORCE UNIT CHOICE ..... 3 (KN )
MAX PORE PRESSURE TABLE LENGTH..... 1
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.

```

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+-----+
|                PARATIE PLUS 2014 NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Sept23, 2015*                |
|                                                                                                            |
|                NewProject.BaseDesignSection_25.Nominal_60                                             |
|                Exe Time :29 June 2020      17:22:00                                                    |
+-----+

```

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 122

- 1 : UNIT m kN
- 2 : TITLE New Project
- 3 : DELTA 0.2
- 4 : option param itemax 40
- 5 : WALL LeftWall_29 0 -16 2 1
- 6 : SOIL 0_L LeftWall_29 -16 2 1 0
- 7 : SOIL 0_R LeftWall_29 -16 2 2 180
- 8 : LDATA FRANA_334_8_L_0 2 LeftWall_29
- 9 : ATREST 0.758 1 1
- 10 : WEIGHT 20 10 10
- 11 : PERMEABILITY 1E-05
- 12 : RESISTANCE 0 14
- 13 : YOUNG 1.5E+04 2.4E+04
- 14 : ENDL
- 15 : LDATA BNA3(2)_335_337_L_0 -2 LeftWall_29
- 16 : ATREST 0.5 1 1
- 17 : WEIGHT 20 10 10
- 18 : PERMEABILITY 1E-05
- 19 : RESISTANCE 2.5 30
- 20 : YOUNG 5E+04 8E+04
- 21 : ENDL
- 22 : LDATA BNA3(3)_336_338_L_0 -13 LeftWall_29
- 23 : ATREST 0.577 1 1
- 24 : WEIGHT 20 10 10
- 25 : PERMEABILITY 1E-05
- 26 : RESISTANCE 30 25
- 27 : YOUNG 7.5E+04 1.2E+05
- 28 : ENDL
- 29 : MATERIAL Fe360_2753 2.06E+08
- 30 : MATERIAL C2530_101 3.148E+07
- 31 : MATERIAL acciaioarmonico_110 2.001E+08
- 32 : BEAM WallElement_30 LeftWall_29 -16 2 C2530_101 0.7888 00 00
- 33 : WIRE Tieback_341 LeftWall_29 -2.1 acciaioarmonico_110 8.274E-06 110.4 0 0 0
- 34 : WIRE Tieback_342 LeftWall_29 -6.1 acciaioarmonico_110 9.145E-06 125 0 0 0
- 35 : STRIP LeftWall_29 1 6 31 30.5 2 54.6 45
- 36 : STEP Stage1_28
- 37 : CHANGE FRANA_334_8_L_0 U-FRICT=14 LeftWall_29
- 38 : CHANGE FRANA_334_8_L_0 D-FRICT=14 LeftWall_29
- 39 : CHANGE FRANA_334_8_L_0 U-KA=0.61 LeftWall_29
- 40 : CHANGE FRANA_334_8_L_0 U-KP=1.85 LeftWall_29
- 41 : CHANGE FRANA_334_8_L_0 D-KA=0.61 LeftWall_29
- 42 : CHANGE FRANA_334_8_L_0 D-KP=1.85 LeftWall_29
- 43 : CHANGE BNA3(2)_335_337_L_0 U-FRICT=30 LeftWall_29
- 44 : CHANGE BNA3(2)_335_337_L_0 D-FRICT=30 LeftWall_29
- 45 : CHANGE BNA3(2)_335_337_L_0 U-KA=0.333 LeftWall_29
- 46 : CHANGE BNA3(2)_335_337_L_0 U-KP=4.288 LeftWall_29
- 47 : CHANGE BNA3(2)_335_337_L_0 D-KA=0.333 LeftWall_29
- 48 : CHANGE BNA3(2)_335_337_L_0 D-KP=4.288 LeftWall_29
- 49 : CHANGE BNA3(3)_336_338_L_0 U-FRICT=25 LeftWall_29
- 50 : CHANGE BNA3(3)_336_338_L_0 D-FRICT=25 LeftWall_29
- 51 : CHANGE BNA3(3)_336_338_L_0 U-KA=0.406 LeftWall_29
- 52 : CHANGE BNA3(3)_336_338_L_0 U-KP=3.222 LeftWall_29
- 53 : CHANGE BNA3(3)_336_338_L_0 D-KA=0.406 LeftWall_29
- 54 : CHANGE BNA3(3)_336_338_L_0 D-KP=3.222 LeftWall_29
- 55 : CHANGE FRANA_334_8_L_0 U-COHE=0 LeftWall_29
- 56 : CHANGE FRANA_334_8_L_0 D-COHE=0 LeftWall_29
- 57 : CHANGE BNA3(2)_335_337_L_0 U-COHE=2.5 LeftWall_29
- 58 : CHANGE BNA3(2)_335_337_L_0 D-COHE=2.5 LeftWall_29
- 59 : CHANGE BNA3(3)_336_338_L_0 U-COHE=30 LeftWall_29
- 60 : CHANGE BNA3(3)_336_338_L_0 D-COHE=30 LeftWall_29
- 61 : SETWALL LeftWall_29
- 62 : GEOM 0.5 0.5
- 63 : WATER -14.8 0 -16 0 0
- 64 : ADD WallElement_30
- 65 : ENDSTEP
- 66 : STEP Stage2_344
- 67 : CHANGE FRANA_334_8_L_0 D-FRICT=14 LeftWall_29
- 68 : CHANGE BNA3(2)_335_337_L_0 D-FRICT=30 LeftWall_29
- 69 : CHANGE BNA3(3)_336_338_L_0 D-FRICT=25 LeftWall_29
- 70 : CHANGE FRANA_334_8_L_0 D-COHE=0 LeftWall_29
- 71 : CHANGE BNA3(2)_335_337_L_0 D-COHE=2.5 LeftWall_29
- 72 : CHANGE BNA3(3)_336_338_L_0 D-COHE=30 LeftWall_29
- 73 : SETWALL LeftWall_29
- 74 : GEOM 0.5 -3.1
- 75 : WATER -14.8 0 -16 0 0
- 76 : ENDSTEP
- 77 : STEP Tirante1_1139
- 78 : CHANGE FRANA_334_8_L_0 D-FRICT=14 LeftWall_29
- 79 : CHANGE BNA3(2)_335_337_L_0 D-FRICT=30 LeftWall_29

```
80 : CHANGE BNA3(3)_336_338_L_0 D-FRICT=25 LeftWall_29
81 : CHANGE FRANA_334_8_L_0 D-COHE=0 LeftWall_29
82 : CHANGE BNA3(2)_335_337_L_0 D-COHE=2.5 LeftWall_29
83 : CHANGE BNA3(3)_336_338_L_0 D-COHE=30 LeftWall_29
84 : SETWALL LeftWall_29
85 : GEOM 0.5 -3.1
86 : WATER -14.8 0 -16 0 0
87 : ADD Tieback_341
88 : ENDSTEP
89 : STEP Stage4_1238
90 : CHANGE FRANA_334_8_L_0 D-FRICT=14 LeftWall_29
91 : CHANGE BNA3(2)_335_337_L_0 D-FRICT=30 LeftWall_29
92 : CHANGE BNA3(3)_336_338_L_0 D-FRICT=25 LeftWall_29
93 : CHANGE FRANA_334_8_L_0 D-COHE=0 LeftWall_29
94 : CHANGE BNA3(2)_335_337_L_0 D-COHE=2.5 LeftWall_29
95 : CHANGE BNA3(3)_336_338_L_0 D-COHE=30 LeftWall_29
96 : SETWALL LeftWall_29
97 : GEOM 0.5 -7.1
98 : WATER -14.8 0 -16 0 0
99 : ENDSTEP
100 : STEP Tirante2_1685
101 : CHANGE FRANA_334_8_L_0 D-FRICT=14 LeftWall_29
102 : CHANGE BNA3(2)_335_337_L_0 D-FRICT=30 LeftWall_29
103 : CHANGE BNA3(3)_336_338_L_0 D-FRICT=25 LeftWall_29
104 : CHANGE FRANA_334_8_L_0 D-COHE=0 LeftWall_29
105 : CHANGE BNA3(2)_335_337_L_0 D-COHE=2.5 LeftWall_29
106 : CHANGE BNA3(3)_336_338_L_0 D-COHE=30 LeftWall_29
107 : SETWALL LeftWall_29
108 : GEOM 0.5 -7.1
109 : WATER -14.8 0 -16 0 0
110 : ADD Tieback_342
111 : ENDSTEP
112 : STEP Fondoscavo_2741
113 : CHANGE FRANA_334_8_L_0 D-FRICT=14 LeftWall_29
114 : CHANGE BNA3(2)_335_337_L_0 D-FRICT=30 LeftWall_29
115 : CHANGE BNA3(3)_336_338_L_0 D-FRICT=25 LeftWall_29
116 : CHANGE FRANA_334_8_L_0 D-COHE=0 LeftWall_29
117 : CHANGE BNA3(2)_335_337_L_0 D-COHE=2.5 LeftWall_29
118 : CHANGE BNA3(3)_336_338_L_0 D-COHE=30 LeftWall_29
119 : SETWALL LeftWall_29
120 : GEOM 2 -8.5
121 : WATER -30 0 -16 0 0
122 : ENDSTEP
```

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+-----+
|          PARATIE PLUS 2014 NLS ENGINE RELEASE  2016  FULL VERSION  *Build date: Sept23, 2015*          |
|                                                                                                          |
|                               NewProject.BaseDesignSection_25.Nominal_60                               |
|                               Exe Time :29 June 2020           17:22:00                               |
+-----+

```

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	0.0000	2.0000 /	2	0.0000	1.8000 /	3	0.0000	1.6000 /	4	0.0000	1.4000 /
5	0.0000	1.2000 /	6	0.0000	1.0000 /	7	0.0000	0.80000 /	8	0.0000	0.60000 /
9	0.0000	0.40000 /	10	0.0000	0.20000 /	11	0.0000	-1.49012E-07 /	12	0.0000	-0.20000 /
13	0.0000	-0.40000 /	14	0.0000	-0.60000 /	15	0.0000	-0.80000 /	16	0.0000	-1.0000 /
17	0.0000	-1.2000 /	18	0.0000	-1.4000 /	19	0.0000	-1.6000 /	20	0.0000	-1.8000 /
21	0.0000	-2.0000 /	22	0.0000	-2.1000 /	23	0.0000	-2.3000 /	24	0.0000	-2.5000 /
25	0.0000	-2.7000 /	26	0.0000	-2.9000 /	27	0.0000	-3.1000 /	28	0.0000	-3.3000 /
29	0.0000	-3.5000 /	30	0.0000	-3.7000 /	31	0.0000	-3.9000 /	32	0.0000	-4.1000 /
33	0.0000	-4.3000 /	34	0.0000	-4.5000 /	35	0.0000	-4.7000 /	36	0.0000	-4.9000 /
37	0.0000	-5.1000 /	38	0.0000	-5.3000 /	39	0.0000	-5.5000 /	40	0.0000	-5.7000 /
41	0.0000	-5.9000 /	42	0.0000	-6.1000 /	43	0.0000	-6.3000 /	44	0.0000	-6.5000 /
45	0.0000	-6.7000 /	46	0.0000	-6.9000 /	47	0.0000	-7.1000 /	48	0.0000	-7.3000 /
49	0.0000	-7.5000 /	50	0.0000	-7.7000 /	51	0.0000	-7.9000 /	52	0.0000	-8.1000 /
53	0.0000	-8.3000 /	54	0.0000	-8.5000 /	55	0.0000	-8.7000 /	56	0.0000	-8.9000 /
57	0.0000	-9.1000 /	58	0.0000	-9.3000 /	59	0.0000	-9.5000 /	60	0.0000	-9.7000 /
61	0.0000	-9.9000 /	62	0.0000	-10.100 /	63	0.0000	-10.300 /	64	0.0000	-10.500 /
65	0.0000	-10.700 /	66	0.0000	-10.900 /	67	0.0000	-11.100 /	68	0.0000	-11.300 /
69	0.0000	-11.500 /	70	0.0000	-11.700 /	71	0.0000	-11.900 /	72	0.0000	-12.100 /
73	0.0000	-12.300 /	74	0.0000	-12.500 /	75	0.0000	-12.700 /	76	0.0000	-12.900 /
77	0.0000	-13.100 /	78	0.0000	-13.300 /	79	0.0000	-13.500 /	80	0.0000	-13.700 /
81	0.0000	-13.900 /	82	0.0000	-14.100 /	83	0.0000	-14.300 /	84	0.0000	-14.500 /
85	0.0000	-14.700 /	86	0.0000	-14.900 /	87	0.0000	-15.100 /	88	0.0000	-15.300 /
89	0.0000	-15.500 /	90	0.0000	-15.700 /	91	0.0000	-15.900 /	92	0.0000	-16.000 /

```

+-----+
|           PARATIE PLUS 2014 NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Sept23, 2015*           |
|                                                                                                     |
|                               NewProject.BaseDesignSection_25.Nominal_60                             |
|                               Exe Time :29 June 2020          17:22:00                               |
+-----+

```

ELEMENT GROUP NO. 1

```

0_L
5 92 0 1 0 0 0 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
5 active
6 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	0.1500	0.000	0.000	0.000	1.000
22	22	2	0.1500	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	2	0.2000	0.000	0.000	0.000	1.000

42	42	2	0.2000	0.000	0.000	0.000	1.000
43	43	2	0.2000	0.000	0.000	0.000	1.000
44	44	2	0.2000	0.000	0.000	0.000	1.000
45	45	2	0.2000	0.000	0.000	0.000	1.000
46	46	2	0.2000	0.000	0.000	0.000	1.000
47	47	2	0.2000	0.000	0.000	0.000	1.000
48	48	2	0.2000	0.000	0.000	0.000	1.000
49	49	2	0.2000	0.000	0.000	0.000	1.000
50	50	2	0.2000	0.000	0.000	0.000	1.000
51	51	2	0.2000	0.000	0.000	0.000	1.000
52	52	2	0.2000	0.000	0.000	0.000	1.000
53	53	2	0.2000	0.000	0.000	0.000	1.000
54	54	2	0.2000	0.000	0.000	0.000	1.000
55	55	2	0.2000	0.000	0.000	0.000	1.000
56	56	2	0.2000	0.000	0.000	0.000	1.000
57	57	2	0.2000	0.000	0.000	0.000	1.000
58	58	2	0.2000	0.000	0.000	0.000	1.000
59	59	2	0.2000	0.000	0.000	0.000	1.000
60	60	2	0.2000	0.000	0.000	0.000	1.000
61	61	2	0.2000	0.000	0.000	0.000	1.000
62	62	2	0.2000	0.000	0.000	0.000	1.000
63	63	2	0.2000	0.000	0.000	0.000	1.000
64	64	2	0.2000	0.000	0.000	0.000	1.000
65	65	2	0.2000	0.000	0.000	0.000	1.000
66	66	2	0.2000	0.000	0.000	0.000	1.000
67	67	2	0.2000	0.000	0.000	0.000	1.000
68	68	2	0.2000	0.000	0.000	0.000	1.000
69	69	2	0.2000	0.000	0.000	0.000	1.000
70	70	2	0.2000	0.000	0.000	0.000	1.000
71	71	2	0.2000	0.000	0.000	0.000	1.000
72	72	2	0.2000	0.000	0.000	0.000	1.000
73	73	2	0.2000	0.000	0.000	0.000	1.000
74	74	2	0.2000	0.000	0.000	0.000	1.000
75	75	2	0.2000	0.000	0.000	0.000	1.000
76	76	2	0.2000	0.000	0.000	0.000	1.000
77	77	3	0.2000	0.000	0.000	0.000	1.000
78	78	3	0.2000	0.000	0.000	0.000	1.000
79	79	3	0.2000	0.000	0.000	0.000	1.000
80	80	3	0.2000	0.000	0.000	0.000	1.000
81	81	3	0.2000	0.000	0.000	0.000	1.000
82	82	3	0.2000	0.000	0.000	0.000	1.000
83	83	3	0.2000	0.000	0.000	0.000	1.000
84	84	3	0.2000	0.000	0.000	0.000	1.000
85	85	3	0.2000	0.000	0.000	0.000	1.000
86	86	3	0.2000	0.000	0.000	0.000	1.000
87	87	3	0.2000	0.000	0.000	0.000	1.000
88	88	3	0.2000	0.000	0.000	0.000	1.000
89	89	3	0.2000	0.000	0.000	0.000	1.000
90	90	3	0.2000	0.000	0.000	0.000	1.000
91	91	3	0.1500	0.000	0.000	0.000	1.000
92	92	3	0.5000E-01	0.000	0.000	0.000	1.000

42	42	2	0.2000	0.000	0.000	0.000	2.000
43	43	2	0.2000	0.000	0.000	0.000	2.000
44	44	2	0.2000	0.000	0.000	0.000	2.000
45	45	2	0.2000	0.000	0.000	0.000	2.000
46	46	2	0.2000	0.000	0.000	0.000	2.000
47	47	2	0.2000	0.000	0.000	0.000	2.000
48	48	2	0.2000	0.000	0.000	0.000	2.000
49	49	2	0.2000	0.000	0.000	0.000	2.000
50	50	2	0.2000	0.000	0.000	0.000	2.000
51	51	2	0.2000	0.000	0.000	0.000	2.000
52	52	2	0.2000	0.000	0.000	0.000	2.000
53	53	2	0.2000	0.000	0.000	0.000	2.000
54	54	2	0.2000	0.000	0.000	0.000	2.000
55	55	2	0.2000	0.000	0.000	0.000	2.000
56	56	2	0.2000	0.000	0.000	0.000	2.000
57	57	2	0.2000	0.000	0.000	0.000	2.000
58	58	2	0.2000	0.000	0.000	0.000	2.000
59	59	2	0.2000	0.000	0.000	0.000	2.000
60	60	2	0.2000	0.000	0.000	0.000	2.000
61	61	2	0.2000	0.000	0.000	0.000	2.000
62	62	2	0.2000	0.000	0.000	0.000	2.000
63	63	2	0.2000	0.000	0.000	0.000	2.000
64	64	2	0.2000	0.000	0.000	0.000	2.000
65	65	2	0.2000	0.000	0.000	0.000	2.000
66	66	2	0.2000	0.000	0.000	0.000	2.000
67	67	2	0.2000	0.000	0.000	0.000	2.000
68	68	2	0.2000	0.000	0.000	0.000	2.000
69	69	2	0.2000	0.000	0.000	0.000	2.000
70	70	2	0.2000	0.000	0.000	0.000	2.000
71	71	2	0.2000	0.000	0.000	0.000	2.000
72	72	2	0.2000	0.000	0.000	0.000	2.000
73	73	2	0.2000	0.000	0.000	0.000	2.000
74	74	2	0.2000	0.000	0.000	0.000	2.000
75	75	2	0.2000	0.000	0.000	0.000	2.000
76	76	2	0.2000	0.000	0.000	0.000	2.000
77	77	3	0.2000	0.000	0.000	0.000	2.000
78	78	3	0.2000	0.000	0.000	0.000	2.000
79	79	3	0.2000	0.000	0.000	0.000	2.000
80	80	3	0.2000	0.000	0.000	0.000	2.000
81	81	3	0.2000	0.000	0.000	0.000	2.000
82	82	3	0.2000	0.000	0.000	0.000	2.000
83	83	3	0.2000	0.000	0.000	0.000	2.000
84	84	3	0.2000	0.000	0.000	0.000	2.000
85	85	3	0.2000	0.000	0.000	0.000	2.000
86	86	3	0.2000	0.000	0.000	0.000	2.000
87	87	3	0.2000	0.000	0.000	0.000	2.000
88	88	3	0.2000	0.000	0.000	0.000	2.000
89	89	3	0.2000	0.000	0.000	0.000	2.000
90	90	3	0.2000	0.000	0.000	0.000	2.000
91	91	3	0.1500	0.000	0.000	0.000	2.000
92	92	3	0.5000E-01	0.000	0.000	0.000	2.000


```

+-----+
|          PARATIE PLUS 2014 NLS ENGINE RELEASE  2016  FULL VERSION  *Build date: Sept23, 2015*          |
|                                                                                                     |
|                                                                                                     |
|                                                                                                     |
|          NewProject.BaseDesignSection_25.Nominal_60          |
|          Exe Time :29 June 2020          17:22:00          |
+-----+

```

ELEMENT GROUP NO. 3

```

WallElement_30
2 91 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 1 0

```

.....2D WALL ELEMENT.....

element group behaviour throughout stage analysis

```

stage  status
-----
1  active
2  active
3  active
4  active
5  active
6  active

```

material set no. 1

```

prop( 1) young modulus      0.314800E+08
prop( 2) modification time  0.00000
prop( 3) new young modulus  0.00000
prop( 4) poisson ratio      0.00000
prop( 5) future .....0.294300E-43

```

no. of step variable items: 1

```

step  inertia multiplier
-----
1  1.000
2  1.000
3  1.000
4  1.000
5  1.000
6  1.000

```

element data

e1	na	nb	mat	erc1	erc2	thick
1	1	2	1	0.000	0.000	0.7888
2	2	3	1	0.000	0.000	0.7888
3	3	4	1	0.000	0.000	0.7888
4	4	5	1	0.000	0.000	0.7888
5	5	6	1	0.000	0.000	0.7888
6	6	7	1	0.000	0.000	0.7888
7	7	8	1	0.000	0.000	0.7888
8	8	9	1	0.000	0.000	0.7888
9	9	10	1	0.000	0.000	0.7888
10	10	11	1	0.000	0.000	0.7888
11	11	12	1	0.000	0.000	0.7888
12	12	13	1	0.000	0.000	0.7888
13	13	14	1	0.000	0.000	0.7888
14	14	15	1	0.000	0.000	0.7888
15	15	16	1	0.000	0.000	0.7888
16	16	17	1	0.000	0.000	0.7888
17	17	18	1	0.000	0.000	0.7888
18	18	19	1	0.000	0.000	0.7888
19	19	20	1	0.000	0.000	0.7888
20	20	21	1	0.000	0.000	0.7888
21	21	22	1	0.000	0.000	0.7888
22	22	23	1	0.000	0.000	0.7888
23	23	24	1	0.000	0.000	0.7888
24	24	25	1	0.000	0.000	0.7888
25	25	26	1	0.000	0.000	0.7888
26	26	27	1	0.000	0.000	0.7888
27	27	28	1	0.000	0.000	0.7888
28	28	29	1	0.000	0.000	0.7888
29	29	30	1	0.000	0.000	0.7888
30	30	31	1	0.000	0.000	0.7888
31	31	32	1	0.000	0.000	0.7888
32	32	33	1	0.000	0.000	0.7888
33	33	34	1	0.000	0.000	0.7888
34	34	35	1	0.000	0.000	0.7888
35	35	36	1	0.000	0.000	0.7888
36	36	37	1	0.000	0.000	0.7888
37	37	38	1	0.000	0.000	0.7888
38	38	39	1	0.000	0.000	0.7888
39	39	40	1	0.000	0.000	0.7888
40	40	41	1	0.000	0.000	0.7888
41	41	42	1	0.000	0.000	0.7888

42	42	43	1	0.000	0.000	0.7888
43	43	44	1	0.000	0.000	0.7888
44	44	45	1	0.000	0.000	0.7888
45	45	46	1	0.000	0.000	0.7888
46	46	47	1	0.000	0.000	0.7888
47	47	48	1	0.000	0.000	0.7888
48	48	49	1	0.000	0.000	0.7888
49	49	50	1	0.000	0.000	0.7888
50	50	51	1	0.000	0.000	0.7888
51	51	52	1	0.000	0.000	0.7888
52	52	53	1	0.000	0.000	0.7888
53	53	54	1	0.000	0.000	0.7888
54	54	55	1	0.000	0.000	0.7888
55	55	56	1	0.000	0.000	0.7888
56	56	57	1	0.000	0.000	0.7888
57	57	58	1	0.000	0.000	0.7888
58	58	59	1	0.000	0.000	0.7888
59	59	60	1	0.000	0.000	0.7888
60	60	61	1	0.000	0.000	0.7888
61	61	62	1	0.000	0.000	0.7888
62	62	63	1	0.000	0.000	0.7888
63	63	64	1	0.000	0.000	0.7888
64	64	65	1	0.000	0.000	0.7888
65	65	66	1	0.000	0.000	0.7888
66	66	67	1	0.000	0.000	0.7888
67	67	68	1	0.000	0.000	0.7888
68	68	69	1	0.000	0.000	0.7888
69	69	70	1	0.000	0.000	0.7888
70	70	71	1	0.000	0.000	0.7888
71	71	72	1	0.000	0.000	0.7888
72	72	73	1	0.000	0.000	0.7888
73	73	74	1	0.000	0.000	0.7888
74	74	75	1	0.000	0.000	0.7888
75	75	76	1	0.000	0.000	0.7888
76	76	77	1	0.000	0.000	0.7888
77	77	78	1	0.000	0.000	0.7888
78	78	79	1	0.000	0.000	0.7888
79	79	80	1	0.000	0.000	0.7888
80	80	81	1	0.000	0.000	0.7888
81	81	82	1	0.000	0.000	0.7888
82	82	83	1	0.000	0.000	0.7888
83	83	84	1	0.000	0.000	0.7888
84	84	85	1	0.000	0.000	0.7888
85	85	86	1	0.000	0.000	0.7888
86	86	87	1	0.000	0.000	0.7888
87	87	88	1	0.000	0.000	0.7888
88	88	89	1	0.000	0.000	0.7888
89	89	90	1	0.000	0.000	0.7888
90	90	91	1	0.000	0.000	0.7888
91	91	92	1	0.000	0.000	0.7888

```

+-----+
|          PARATIE PLUS 2014 NLS ENGINE RELEASE  2016  FULL VERSION  *Build date: Sept23, 2015*          |
|                                                                                                     |
|                               NewProject.BaseDesignSection_25.Nominal_60                               |
|                               Exe Time :29 June 2020      17:22:00                               |
+-----+

```

ELEMENT GROUP NO. 4

```

Tieback_341
6 1 0 1 0 0 0 0 0 0 0 0 0 0 0 1 0 0 2 0
.....
.....2D POST-TENSION ANCHOR.....
.....

```

element group behaviour throughout stage analysis

```

stage  status
-----
1  inactive
2  inactive
3  active
4  active
5  active
6  active

```

material set no. 1

```

prop( 1) angle          0.00000
prop( 2) young modulus  0.200100E+09
prop( 3) modification time 0.00000
prop( 4) new young modulus 0.00000

```

no. of step variable items: 2

step	-ve lim	+ve lim
1	0.000	0.000
2	0.000	0.000
3	0.000	0.000
4	0.000	0.000
5	0.000	0.000
6	0.000	0.000

element data

el	n	mat	a/l	pinit	yieldc	yieldt
1	22	1	0.8274E-05	110.4	0.000	0.000

```

+-----+
|          PARATIE PLUS 2014 NLS ENGINE RELEASE  2016  FULL VERSION  *Build date: Sept23, 2015*          |
|                                                                                                                                            |
|                                                                 NewProject.BaseDesignSection_25.Nominal_60                               |
|                                                                 Exe Time :29 June 2020      17:22:00                               |
+-----+

```

ELEMENT GROUP NO. 5

```

Tieback_342
6 1 0 1 0 0 0 0 0 0 0 0 0 0 0 1 0 0 2 0
.....
.....2D POST-TENSION ANCHOR.....
.....

```

element group behaviour throughout stage analysis

```

stage  status
-----
1  inactive
2  inactive
3  inactive
4  inactive
5  active
6  active

```

material set no. 1

```

prop( 1) angle          0.00000
prop( 2) young modulus  0.200100E+09
prop( 3) modification time 0.00000
prop( 4) new young modulus 0.00000

```

no. of step variable items: 2

step	-ve lim	+ve lim
1	0.000	0.000
2	0.000	0.000
3	0.000	0.000
4	0.000	0.000
5	0.000	0.000
6	0.000	0.000

element data

el	n	mat	a/l	pinit	yieldc	yieldt
1	42	1	0.9145E-05	125.0	0.000	0.000

```
+-----+
|          PARATIE PLUS 2014 NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Sept23, 2015*          |
|                                                                                                                                            |
|                                                                 NewProject.BaseDesignSection_25.Nominal_60                               |
|                                                                 Exe Time :29 June 2020      17:22:00                               |
+-----+
```

```
NO. OF NODAL LOADS (NLOAD) ..... 0
NO. OF LOAD CURVES (NLCUR) ..... 12
MAXIMUM POINTS/LCURVE (NPTM)..... 5
```

```

+-----+
|          PARATIE PLUS 2014 NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Sept23, 2015*          |
|                                                                                                    |
|                               NewProject.BaseDesignSection_25.Nominal_60                            |
|                               Exe Time :29 June 2020      17:22:00                                |
+-----+

```

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
7.00000	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
7.00000	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
7.00000	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
7.00000	0.0000E+00

LOAD FUNCTION NUMBER = 5
NUMBER OF TIME POINTS = 5

TIME VALUE	FUNCTION
0.00000	0.0000E+00
4.80000	0.0000E+00
5.00000	0.1000E+01
5.20000	0.0000E+00
7.00000	0.0000E+00

LOAD FUNCTION NUMBER = 6
NUMBER OF TIME POINTS = 5

TIME VALUE	FUNCTION
0.00000	0.0000E+00
5.80000	0.0000E+00
6.00000	0.1000E+01
6.20000	0.0000E+00
7.00000	0.0000E+00

LOAD FUNCTION NUMBER = 7

NUMBER OF TIME POINTS = 4

TIME VALUE	FUNCTION
0.00000	0.0000E+00
0.80000	0.0000E+00
1.00000	0.1000E+01
7.00000	0.1000E+01

LOAD FUNCTION NUMBER = 8
NUMBER OF TIME POINTS = 4

TIME VALUE	FUNCTION
0.00000	0.0000E+00
1.80000	0.0000E+00
2.00000	0.1000E+01
7.00000	0.1000E+01

LOAD FUNCTION NUMBER = 9
NUMBER OF TIME POINTS = 4

TIME VALUE	FUNCTION
0.00000	0.0000E+00
2.80000	0.0000E+00
3.00000	0.1000E+01
7.00000	0.1000E+01

LOAD FUNCTION NUMBER = 10
NUMBER OF TIME POINTS = 4

TIME VALUE	FUNCTION
0.00000	0.0000E+00
3.80000	0.0000E+00
4.00000	0.1000E+01
7.00000	0.1000E+01

LOAD FUNCTION NUMBER = 11
NUMBER OF TIME POINTS = 4

TIME VALUE	FUNCTION
0.00000	0.0000E+00
4.80000	0.0000E+00
5.00000	0.1000E+01
7.00000	0.1000E+01

LOAD FUNCTION NUMBER = 12
NUMBER OF TIME POINTS = 4

TIME VALUE	FUNCTION
0.00000	0.0000E+00
5.80000	0.0000E+00
6.00000	0.1000E+01
7.00000	0.1000E+01

NO. OF DISTRIBUTED LOAD CARDS 0

```

+-----+
|          PARATIE PLUS 2014 NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Sept23, 2015*          |
|                                                                                                    |
|                               NewProject.BaseDesignSection_25.Nominal_60                            |
|                               Exe Time :29 June 2020      17:22:00                                |
+-----+

```

```

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

STEP 5 TOTAL APPLIED LOAD IN DIR. 2 Y-DISPL.F      0.0000000
STEP 5 TOTAL APPLIED LOAD IN DIR. 4 X-ROT. F      0.0000000

STEP 6 TOTAL APPLIED LOAD IN DIR. 2 Y-DISPL.F      0.0000000
STEP 6 TOTAL APPLIED LOAD IN DIR. 4 X-ROT. F      0.0000000

```

LOAD INPUT SECTION COMPLETED


```
+-----+
|          PARATIE PLUS 2014 NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Sept23, 2015*          |
|                                                                                                                                            |
|                               NewProject.BaseDesignSection_25.Nominal_60                               |
|                               Exe Time :29 June 2020      17:22:00                               |
+-----+
```

```
NO. OF LAYERS ..... 3
NO. OF DATA PER LAYER..... 100
```

```

+-----+
|                PARATIE PLUS 2014 NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Sept23, 2015*                |
|                                                                                                                                            |
|                                                                 NewProject.BaseDesignSection_25.Nominal_60                               |
|                                                                 Exe Time :29 June 2020      17:22:00                               |
+-----+

```

LAYER DESCRIPTORS FOR STEP NO. 1

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

```

ITEM NO. 1<NAME      >= 16.000    (BOTH WALLS)
ITEM NO. 2<NATURE   >= 1.0000   (BOTH WALLS)
ITEM NO. 3<LEVEL    >= 2.0000   (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. 9<U-FRICT  >= 14.000   (BOTH WALLS)
ITEM NO. 10<U-KA    >= 0.61000  WALL NO.      1
ITEM NO. 11<U-KP    >= 1.8500   WALL NO.      1
ITEM NO. 12<K0-NC   >= 0.75800  (BOTH WALLS)
ITEM NO. 13<NEXP    >= 1.0000   (BOTH WALLS)
ITEM NO. 14<OCR     >= 1.0000   (BOTH WALLS)
ITEM NO. 16<MODEL   >= 1.0000   (BOTH WALLS)
ITEM NO. 17<EVC     >= 15000.   (BOTH WALLS)
ITEM NO. 18<EUR     >= 24000.   (BOTH WALLS)
ITEM NO. 27<U-PERM  >= 0.10000E-04 (BOTH WALLS)
ITEM NO. 52<D-NATURE>= 1.0000   (BOTH WALLS)
ITEM NO. 53<D-LEVEL >= 0.0000   (BOTH WALLS)
ITEM NO. 59<D-FRICT >= 14.000   (BOTH WALLS)
ITEM NO. 60<D-KA    >= 0.61000  WALL NO.      1
ITEM NO. 61<D-KP    >= 1.8500   WALL NO.      1
ITEM NO. 77<D-PERM  >= 0.10000E-04 (BOTH WALLS)

```

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

```

ITEM NO. 1<NAME      >= 17.000    (BOTH WALLS)
ITEM NO. 2<NATURE   >= 1.0000   (BOTH WALLS)
ITEM NO. 3<LEVEL    >= -2.0000  (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   >= 2.5000   (BOTH WALLS)
ITEM NO. 9<U-FRICT  >= 30.000   (BOTH WALLS)
ITEM NO. 10<U-KA    >= 0.33300  WALL NO.      1
ITEM NO. 11<U-KP    >= 4.2880   WALL NO.      1
ITEM NO. 12<K0-NC   >= 0.50000  (BOTH WALLS)
ITEM NO. 13<NEXP    >= 1.0000   (BOTH WALLS)
ITEM NO. 14<OCR     >= 1.0000   (BOTH WALLS)
ITEM NO. 16<MODEL   >= 1.0000   (BOTH WALLS)
ITEM NO. 17<EVC     >= 50000.   (BOTH WALLS)
ITEM NO. 18<EUR     >= 80000.   (BOTH WALLS)
ITEM NO. 27<U-PERM  >= 0.10000E-04 (BOTH WALLS)
ITEM NO. 52<D-NATURE>= 1.0000   (BOTH WALLS)
ITEM NO. 53<D-LEVEL >= 0.0000   (BOTH WALLS)
ITEM NO. 58<D-COHE  >= 2.5000   (BOTH WALLS)
ITEM NO. 59<D-FRICT >= 30.000   (BOTH WALLS)
ITEM NO. 60<D-KA    >= 0.33300  WALL NO.      1
ITEM NO. 61<D-KP    >= 4.2880   WALL NO.      1
ITEM NO. 77<D-PERM  >= 0.10000E-04 (BOTH WALLS)

```

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

```

ITEM NO. 1<NAME      >= 18.000    (BOTH WALLS)
ITEM NO. 2<NATURE   >= 1.0000   (BOTH WALLS)
ITEM NO. 3<LEVEL    >= -13.000   (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   >= 30.000   (BOTH WALLS)
ITEM NO. 9<U-FRICT  >= 25.000   (BOTH WALLS)
ITEM NO. 10<U-KA    >= 0.40600  WALL NO.      1
ITEM NO. 11<U-KP    >= 3.2220   WALL NO.      1
ITEM NO. 12<K0-NC   >= 0.57700  (BOTH WALLS)
ITEM NO. 13<NEXP    >= 1.0000   (BOTH WALLS)
ITEM NO. 14<OCR     >= 1.0000   (BOTH WALLS)
ITEM NO. 16<MODEL   >= 1.0000   (BOTH WALLS)
ITEM NO. 17<EVC     >= 75000.   (BOTH WALLS)
ITEM NO. 18<EUR     >= 0.12000E+06 (BOTH WALLS)
ITEM NO. 27<U-PERM  >= 0.10000E-04 (BOTH WALLS)
ITEM NO. 52<D-NATURE>= 1.0000   (BOTH WALLS)
ITEM NO. 53<D-LEVEL >= 0.0000   (BOTH WALLS)
ITEM NO. 58<D-COHE  >= 30.000   (BOTH WALLS)
ITEM NO. 59<D-FRICT >= 25.000   (BOTH WALLS)
ITEM NO. 60<D-KA    >= 0.40600  WALL NO.      1

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ITEM NO. 61<D-KP >= 3.2220 WALL NO. 1
ITEM NO. 77<D-PERM >= 0.10000E-04 (BOTH WALLS)

LAYER DESCRIPTORS FOR STEP NO. 2

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

ITEM NO. 1<NAME >= 16.000 (BOTH WALLS)
ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
ITEM NO. 3<LEVEL >= 2.0000 (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. 9<U-FRICT >= 14.000 (BOTH WALLS)
ITEM NO. 10<U-KA >= 0.61000 WALL NO. 1
ITEM NO. 11<U-KP >= 1.8500 WALL NO. 1
ITEM NO. 12<K0-NC >= 0.75800 (BOTH WALLS)
ITEM NO. 13<NEXP >= 1.0000 (BOTH WALLS)
ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)
ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)
ITEM NO. 17<EVC >= 15000. (BOTH WALLS)
ITEM NO. 18<EUR >= 24000. (BOTH WALLS)
ITEM NO. 27<U-PERM >= 0.10000E-04 (BOTH WALLS)
ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
ITEM NO. 59<D-FRICT >= 14.000 (BOTH WALLS)
ITEM NO. 60<D-KA >= 0.61000 WALL NO. 1
ITEM NO. 61<D-KP >= 1.8500 WALL NO. 1
ITEM NO. 77<D-PERM >= 0.10000E-04 (BOTH WALLS)

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

ITEM NO. 1<NAME >= 17.000 (BOTH WALLS)
ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
ITEM NO. 3<LEVEL >= -2.0000 (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 >= 2.5000 (BOTH WALLS)
ITEM NO. 9<U-FRICT >= 30.000 (BOTH WALLS)
ITEM NO. 10<U-KA >= 0.33300 WALL NO. 1
ITEM NO. 11<U-KP >= 4.2880 WALL NO. 1
ITEM NO. 12<K0-NC >= 0.50000 (BOTH WALLS)
ITEM NO. 13<NEXP >= 1.0000 (BOTH WALLS)
ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)
ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)
ITEM NO. 17<EVC >= 50000. (BOTH WALLS)
ITEM NO. 18<EUR >= 80000. (BOTH WALLS)
ITEM NO. 27<U-PERM >= 0.10000E-04 (BOTH WALLS)
ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
ITEM NO. 58<D-COHE >= 2.5000 (BOTH WALLS)
ITEM NO. 59<D-FRICT >= 30.000 (BOTH WALLS)
ITEM NO. 60<D-KA >= 0.33300 WALL NO. 1
ITEM NO. 61<D-KP >= 4.2880 WALL NO. 1
ITEM NO. 77<D-PERM >= 0.10000E-04 (BOTH WALLS)

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

ITEM NO. 1<NAME >= 18.000 (BOTH WALLS)
ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
ITEM NO. 3<LEVEL >= -13.000 (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 >= 30.000 (BOTH WALLS)
ITEM NO. 9<U-FRICT >= 25.000 (BOTH WALLS)
ITEM NO. 10<U-KA >= 0.40600 WALL NO. 1
ITEM NO. 11<U-KP >= 3.2220 WALL NO. 1
ITEM NO. 12<K0-NC >= 0.57700 (BOTH WALLS)
ITEM NO. 13<NEXP >= 1.0000 (BOTH WALLS)
ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)
ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)
ITEM NO. 17<EVC >= 75000. (BOTH WALLS)
ITEM NO. 18<EUR >= 0.12000E+06 (BOTH WALLS)
ITEM NO. 27<U-PERM >= 0.10000E-04 (BOTH WALLS)
ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
ITEM NO. 58<D-COHE >= 30.000 (BOTH WALLS)
ITEM NO. 59<D-FRICT >= 25.000 (BOTH WALLS)
ITEM NO. 60<D-KA >= 0.40600 WALL NO. 1
ITEM NO. 61<D-KP >= 3.2220 WALL NO. 1
ITEM NO. 77<D-PERM >= 0.10000E-04 (BOTH WALLS)

LAYER DESCRIPTORS FOR STEP NO. 3

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

ITEM NO. 1<NAME >= 16.000 (BOTH WALLS)
ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
ITEM NO. 3<LEVEL >= 2.0000 (BOTH WALLS)
ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)
ITEM NO. 5<GAMMAD >= 20.0000 (BOTH WALLS)
ITEM NO. 6<GAMMAB >= 10.0000 (BOTH WALLS)
ITEM NO. 7<GAMMAW >= 10.0000 (BOTH WALLS)
ITEM NO. 9<U-FRICT >= 14.0000 (BOTH WALLS)
ITEM NO. 10<U-KA >= 0.61000 WALL NO. 1
ITEM NO. 11<U-KP >= 1.8500 WALL NO. 1
ITEM NO. 12<K0-NC >= 0.75800 (BOTH WALLS)
ITEM NO. 13<NEXP >= 1.0000 (BOTH WALLS)
ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)
ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)
ITEM NO. 17<EVC >= 15000. (BOTH WALLS)
ITEM NO. 18<EUR >= 24000. (BOTH WALLS)
ITEM NO. 27<U-PERM >= 0.10000E-04 (BOTH WALLS)
ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
ITEM NO. 59<D-FRICT >= 14.000 (BOTH WALLS)
ITEM NO. 60<D-KA >= 0.61000 WALL NO. 1
ITEM NO. 61<D-KP >= 1.8500 WALL NO. 1
ITEM NO. 77<D-PERM >= 0.10000E-04 (BOTH WALLS)

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

ITEM NO. 1<NAME >= 17.000 (BOTH WALLS)
ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
ITEM NO. 3<LEVEL >= -2.0000 (BOTH WALLS)
ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)
ITEM NO. 5<GAMMAD >= 20.0000 (BOTH WALLS)
ITEM NO. 6<GAMMAB >= 10.0000 (BOTH WALLS)
ITEM NO. 7<GAMMAW >= 10.0000 (BOTH WALLS)
ITEM NO. 8<U-COHE >= 2.5000 (BOTH WALLS)
ITEM NO. 9<U-FRICT >= 30.0000 (BOTH WALLS)
ITEM NO. 10<U-KA >= 0.33300 WALL NO. 1
ITEM NO. 11<U-KP >= 4.2880 WALL NO. 1
ITEM NO. 12<K0-NC >= 0.50000 (BOTH WALLS)
ITEM NO. 13<NEXP >= 1.0000 (BOTH WALLS)
ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)
ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)
ITEM NO. 17<EVC >= 50000. (BOTH WALLS)
ITEM NO. 18<EUR >= 80000. (BOTH WALLS)
ITEM NO. 27<U-PERM >= 0.10000E-04 (BOTH WALLS)
ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
ITEM NO. 58<D-COHE >= 2.5000 (BOTH WALLS)
ITEM NO. 59<D-FRICT >= 30.0000 (BOTH WALLS)
ITEM NO. 60<D-KA >= 0.33300 WALL NO. 1
ITEM NO. 61<D-KP >= 4.2880 WALL NO. 1
ITEM NO. 77<D-PERM >= 0.10000E-04 (BOTH WALLS)

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

ITEM NO. 1<NAME >= 18.000 (BOTH WALLS)
ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
ITEM NO. 3<LEVEL >= -13.0000 (BOTH WALLS)
ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)
ITEM NO. 5<GAMMAD >= 20.0000 (BOTH WALLS)
ITEM NO. 6<GAMMAB >= 10.0000 (BOTH WALLS)
ITEM NO. 7<GAMMAW >= 10.0000 (BOTH WALLS)
ITEM NO. 8<U-COHE >= 30.0000 (BOTH WALLS)
ITEM NO. 9<U-FRICT >= 25.0000 (BOTH WALLS)
ITEM NO. 10<U-KA >= 0.40600 WALL NO. 1
ITEM NO. 11<U-KP >= 3.2220 WALL NO. 1
ITEM NO. 12<K0-NC >= 0.57700 (BOTH WALLS)
ITEM NO. 13<NEXP >= 1.0000 (BOTH WALLS)
ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)
ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)
ITEM NO. 17<EVC >= 75000. (BOTH WALLS)
ITEM NO. 18<EUR >= 0.12000E+06 (BOTH WALLS)
ITEM NO. 27<U-PERM >= 0.10000E-04 (BOTH WALLS)
ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
ITEM NO. 58<D-COHE >= 30.0000 (BOTH WALLS)
ITEM NO. 59<D-FRICT >= 25.0000 (BOTH WALLS)
ITEM NO. 60<D-KA >= 0.40600 WALL NO. 1
ITEM NO. 61<D-KP >= 3.2220 WALL NO. 1
ITEM NO. 77<D-PERM >= 0.10000E-04 (BOTH WALLS)

LAYER DESCRIPTORS FOR STEP NO. 4

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

ITEM NO. 1<NAME >= 16.000 (BOTH WALLS)
ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
ITEM NO. 3<LEVEL >= 2.0000 (BOTH WALLS)
ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)
ITEM NO. 5<GAMMAD >= 20.0000 (BOTH WALLS)
ITEM NO. 6<GAMMAB >= 10.0000 (BOTH WALLS)

ITEM NO. 7<GAMMAW >= 10.000 (BOTH WALLS)
ITEM NO. 9<U-FRICT >= 14.000 (BOTH WALLS)
ITEM NO. 10<U-KA >= 0.61000 WALL NO. 1
ITEM NO. 11<U-KP >= 1.8500 WALL NO. 1
ITEM NO. 12<K0-NC >= 0.75800 (BOTH WALLS)
ITEM NO. 13<NEXP >= 1.0000 (BOTH WALLS)
ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)
ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)
ITEM NO. 17<EVC >= 15000. (BOTH WALLS)
ITEM NO. 18<EUR >= 24000. (BOTH WALLS)
ITEM NO. 27<U-PERM >= 0.10000E-04 (BOTH WALLS)
ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
ITEM NO. 59<D-FRICT >= 14.000 (BOTH WALLS)
ITEM NO. 60<D-KA >= 0.61000 WALL NO. 1
ITEM NO. 61<D-KP >= 1.8500 WALL NO. 1
ITEM NO. 77<D-PERM >= 0.10000E-04 (BOTH WALLS)

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

ITEM NO. 1<NAME >= 17.000 (BOTH WALLS)
ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
ITEM NO. 3<LEVEL >= -2.0000 (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 >= 2.5000 (BOTH WALLS)
ITEM NO. 9<U-FRICT >= 30.000 (BOTH WALLS)
ITEM NO. 10<U-KA >= 0.33300 WALL NO. 1
ITEM NO. 11<U-KP >= 4.2880 WALL NO. 1
ITEM NO. 12<K0-NC >= 0.50000 (BOTH WALLS)
ITEM NO. 13<NEXP >= 1.0000 (BOTH WALLS)
ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)
ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)
ITEM NO. 17<EVC >= 50000. (BOTH WALLS)
ITEM NO. 18<EUR >= 80000. (BOTH WALLS)
ITEM NO. 27<U-PERM >= 0.10000E-04 (BOTH WALLS)
ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
ITEM NO. 58<D-COHE >= 2.5000 (BOTH WALLS)
ITEM NO. 59<D-FRICT >= 30.000 (BOTH WALLS)
ITEM NO. 60<D-KA >= 0.33300 WALL NO. 1
ITEM NO. 61<D-KP >= 4.2880 WALL NO. 1
ITEM NO. 77<D-PERM >= 0.10000E-04 (BOTH WALLS)

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

ITEM NO. 1<NAME >= 18.000 (BOTH WALLS)
ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
ITEM NO. 3<LEVEL >= -13.000 (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 >= 30.000 (BOTH WALLS)
ITEM NO. 9<U-FRICT >= 25.000 (BOTH WALLS)
ITEM NO. 10<U-KA >= 0.40600 WALL NO. 1
ITEM NO. 11<U-KP >= 3.2220 WALL NO. 1
ITEM NO. 12<K0-NC >= 0.57700 (BOTH WALLS)
ITEM NO. 13<NEXP >= 1.0000 (BOTH WALLS)
ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)
ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)
ITEM NO. 17<EVC >= 75000. (BOTH WALLS)
ITEM NO. 18<EUR >= 0.12000E+06 (BOTH WALLS)
ITEM NO. 27<U-PERM >= 0.10000E-04 (BOTH WALLS)
ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
ITEM NO. 58<D-COHE >= 30.000 (BOTH WALLS)
ITEM NO. 59<D-FRICT >= 25.000 (BOTH WALLS)
ITEM NO. 60<D-KA >= 0.40600 WALL NO. 1
ITEM NO. 61<D-KP >= 3.2220 WALL NO. 1
ITEM NO. 77<D-PERM >= 0.10000E-04 (BOTH WALLS)

LAYER DESCRIPTORS FOR STEP NO. 5

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 1 FOR STEP NO. 5

ITEM NO. 1<NAME >= 16.000 (BOTH WALLS)
ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
ITEM NO. 3<LEVEL >= 2.0000 (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. 9<U-FRICT >= 14.000 (BOTH WALLS)
ITEM NO. 10<U-KA >= 0.61000 WALL NO. 1
ITEM NO. 11<U-KP >= 1.8500 WALL NO. 1
ITEM NO. 12<K0-NC >= 0.75800 (BOTH WALLS)
ITEM NO. 13<NEXP >= 1.0000 (BOTH WALLS)
ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)

ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)
 ITEM NO. 17<EVC >= 15000. (BOTH WALLS)
 ITEM NO. 18<EUR >= 24000. (BOTH WALLS)
 ITEM NO. 27<U-PERM >= 0.10000E-04 (BOTH WALLS)
 ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
 ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
 ITEM NO. 59<D-FRICT >= 14.000 (BOTH WALLS)
 ITEM NO. 60<D-KA >= 0.61000 WALL NO. 1
 ITEM NO. 61<D-KP >= 1.8500 WALL NO. 1
 ITEM NO. 77<D-PERM >= 0.10000E-04 (BOTH WALLS)

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 2 FOR STEP NO. 5

ITEM NO. 1<NAME >= 17.000 (BOTH WALLS)
 ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
 ITEM NO. 3<LEVEL >= -2.0000 (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 >= 2.5000 (BOTH WALLS)
 ITEM NO. 9<U-FRICT >= 30.000 (BOTH WALLS)
 ITEM NO. 10<U-KA >= 0.33300 WALL NO. 1
 ITEM NO. 11<U-KP >= 4.2880 WALL NO. 1
 ITEM NO. 12<K0-NC >= 0.50000 (BOTH WALLS)
 ITEM NO. 13<NEXP >= 1.0000 (BOTH WALLS)
 ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)
 ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)
 ITEM NO. 17<EVC >= 50000. (BOTH WALLS)
 ITEM NO. 18<EUR >= 80000. (BOTH WALLS)
 ITEM NO. 27<U-PERM >= 0.10000E-04 (BOTH WALLS)
 ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
 ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
 ITEM NO. 58<D-COHE >= 2.5000 (BOTH WALLS)
 ITEM NO. 59<D-FRICT >= 30.000 (BOTH WALLS)
 ITEM NO. 60<D-KA >= 0.33300 WALL NO. 1
 ITEM NO. 61<D-KP >= 4.2880 WALL NO. 1
 ITEM NO. 77<D-PERM >= 0.10000E-04 (BOTH WALLS)

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 3 FOR STEP NO. 5

ITEM NO. 1<NAME >= 18.000 (BOTH WALLS)
 ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
 ITEM NO. 3<LEVEL >= -13.000 (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 >= 30.000 (BOTH WALLS)
 ITEM NO. 9<U-FRICT >= 25.000 (BOTH WALLS)
 ITEM NO. 10<U-KA >= 0.40600 WALL NO. 1
 ITEM NO. 11<U-KP >= 3.2220 WALL NO. 1
 ITEM NO. 12<K0-NC >= 0.57700 (BOTH WALLS)
 ITEM NO. 13<NEXP >= 1.0000 (BOTH WALLS)
 ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)
 ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)
 ITEM NO. 17<EVC >= 75000. (BOTH WALLS)
 ITEM NO. 18<EUR >= 0.12000E+06 (BOTH WALLS)
 ITEM NO. 27<U-PERM >= 0.10000E-04 (BOTH WALLS)
 ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
 ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
 ITEM NO. 58<D-COHE >= 30.000 (BOTH WALLS)
 ITEM NO. 59<D-FRICT >= 25.000 (BOTH WALLS)
 ITEM NO. 60<D-KA >= 0.40600 WALL NO. 1
 ITEM NO. 61<D-KP >= 3.2220 WALL NO. 1
 ITEM NO. 77<D-PERM >= 0.10000E-04 (BOTH WALLS)

LAYER DESCRIPTORS FOR STEP NO. 6

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 1 FOR STEP NO. 6

ITEM NO. 1<NAME >= 16.000 (BOTH WALLS)
 ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
 ITEM NO. 3<LEVEL >= 2.0000 (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. 9<U-FRICT >= 14.000 (BOTH WALLS)
 ITEM NO. 10<U-KA >= 0.61000 WALL NO. 1
 ITEM NO. 11<U-KP >= 1.8500 WALL NO. 1
 ITEM NO. 12<K0-NC >= 0.75800 (BOTH WALLS)
 ITEM NO. 13<NEXP >= 1.0000 (BOTH WALLS)
 ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)
 ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)
 ITEM NO. 17<EVC >= 15000. (BOTH WALLS)
 ITEM NO. 18<EUR >= 24000. (BOTH WALLS)
 ITEM NO. 27<U-PERM >= 0.10000E-04 (BOTH WALLS)
 ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
 ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
 ITEM NO. 59<D-FRICT >= 14.000 (BOTH WALLS)

ITEM NO. 60<D-KA >= 0.61000 WALL NO. 1
 ITEM NO. 61<D-KP >= 1.8500 WALL NO. 1
 ITEM NO. 77<D-PERM >= 0.10000E-04 (BOTH WALLS)

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 2 FOR STEP NO. 6

ITEM NO. 1<NAME >= 17.000 (BOTH WALLS)
 ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
 ITEM NO. 3<LEVEL >= -2.0000 (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 >= 2.5000 (BOTH WALLS)
 ITEM NO. 9<U-FRICT >= 30.000 (BOTH WALLS)
 ITEM NO. 10<U-KA >= 0.33300 WALL NO. 1
 ITEM NO. 11<U-KP >= 4.2880 WALL NO. 1
 ITEM NO. 12<K0-NC >= 0.50000 (BOTH WALLS)
 ITEM NO. 13<NEXP >= 1.0000 (BOTH WALLS)
 ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)
 ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)
 ITEM NO. 17<EVC >= 50000. (BOTH WALLS)
 ITEM NO. 18<EUR >= 80000. (BOTH WALLS)
 ITEM NO. 27<U-PERM >= 0.10000E-04 (BOTH WALLS)
 ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
 ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
 ITEM NO. 58<D-COHE >= 2.5000 (BOTH WALLS)
 ITEM NO. 59<D-FRICT >= 30.000 (BOTH WALLS)
 ITEM NO. 60<D-KA >= 0.33300 WALL NO. 1
 ITEM NO. 61<D-KP >= 4.2880 WALL NO. 1
 ITEM NO. 77<D-PERM >= 0.10000E-04 (BOTH WALLS)

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 3 FOR STEP NO. 6

ITEM NO. 1<NAME >= 18.000 (BOTH WALLS)
 ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
 ITEM NO. 3<LEVEL >= -13.000 (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 >= 30.000 (BOTH WALLS)
 ITEM NO. 9<U-FRICT >= 25.000 (BOTH WALLS)
 ITEM NO. 10<U-KA >= 0.40600 WALL NO. 1
 ITEM NO. 11<U-KP >= 3.2220 WALL NO. 1
 ITEM NO. 12<K0-NC >= 0.57700 (BOTH WALLS)
 ITEM NO. 13<NEXP >= 1.0000 (BOTH WALLS)
 ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)
 ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)
 ITEM NO. 17<EVC >= 75000. (BOTH WALLS)
 ITEM NO. 18<EUR >= 0.12000E+06 (BOTH WALLS)
 ITEM NO. 27<U-PERM >= 0.10000E-04 (BOTH WALLS)
 ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
 ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
 ITEM NO. 58<D-COHE >= 30.000 (BOTH WALLS)
 ITEM NO. 59<D-FRICT >= 25.000 (BOTH WALLS)
 ITEM NO. 60<D-KA >= 0.40600 WALL NO. 1
 ITEM NO. 61<D-KP >= 3.2220 WALL NO. 1
 ITEM NO. 77<D-PERM >= 0.10000E-04 (BOTH WALLS)

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+-----+
|                PARATIE PLUS 2014 NLS ENGINE RELEASE  2016  FULL VERSION  *Build date: Sept23, 2015*                |
|                                                                                                                                            |
|                                                                                                                                            |
|                NewProject.BaseDesignSection_25.Nominal_60                                                                              |
|                Exe Time :29 June 2020      17:22:00                                                                              |
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PHASE DESCRIPTORS

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STEP NO.      1

                LEFT WALL      RIGHT WALL
Y              0.000          -0.9990E+30
Z-PC           0.5000          0.000
Z-EXCAVATION   0.5000          0.000
Z-WATER_TABLE -14.80          -0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL  0.000          0.000
ZQ             0.000          0.000
DZW_OF_THE_WATER_TABLE  0.000          0.000
QS_ON_THE_EXCAVATION_SIDE  0.000          0.000
ZQS           -0.9990E+30     -0.9990E+30
ZCUT           0.000          0.000
BALANCE LEVEL FOR PORE PRESSURES -16.00          -16.00
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

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

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STEP NO.      2

                LEFT WALL      RIGHT WALL
Y              0.000          -0.9990E+30
Z-PC           0.5000          0.000
Z-EXCAVATION   -3.100          0.000
Z-WATER_TABLE -14.80          -0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL  0.000          0.000
ZQ             0.000          0.000
DZW_OF_THE_WATER_TABLE  0.000          0.000
QS_ON_THE_EXCAVATION_SIDE  0.000          0.000
ZQS           -0.9990E+30     -0.9990E+30
ZCUT           0.000          0.000
BALANCE LEVEL FOR PORE PRESSURES -16.00          -16.00
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

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

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STEP NO.      3

                LEFT WALL      RIGHT WALL
Y              0.000          -0.9990E+30

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Z-PC	0.5000	0.000
Z-EXCAVATION	-3.100	0.000
Z-WATER_TABLE	-14.80	-0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL	0.000	0.000
ZQ	0.000	0.000
DZW_OF_THE_WATER_TABLE	0.000	0.000
QS_ON_THE_EXCAVATION_SIDE	0.000	0.000
ZQS	-0.9990E+30	-0.9990E+30
ZCUT	0.000	0.000
BALANCE LEVEL FOR PORE PRESSURES	-16.00	-16.00
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		
		LEFT WALL	RIGHT WALL
Y		0.000	-0.9990E+30
Z-PC		0.5000	0.000
Z-EXCAVATION		-7.100	0.000
Z-WATER_TABLE		-14.80	-0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL		0.000	0.000
ZQ		0.000	0.000
DZW_OF_THE_WATER_TABLE		0.000	0.000
QS_ON_THE_EXCAVATION_SIDE		0.000	0.000
ZQS		-0.9990E+30	-0.9990E+30
ZCUT		0.000	0.000
BALANCE LEVEL FOR PORE PRESSURES		-16.00	-16.00
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

STEP NO.	5		
		LEFT WALL	RIGHT WALL
Y		0.000	-0.9990E+30
Z-PC		0.5000	0.000
Z-EXCAVATION		-7.100	0.000
Z-WATER_TABLE		-14.80	-0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL		0.000	0.000
ZQ		0.000	0.000
DZW_OF_THE_WATER_TABLE		0.000	0.000
QS_ON_THE_EXCAVATION_SIDE		0.000	0.000
ZQS		-0.9990E+30	-0.9990E+30
ZCUT		0.000	0.000
BALANCE LEVEL FOR PORE PRESSURES		-16.00	-16.00
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 5

STEP NO.	6		
		LEFT WALL	RIGHT WALL
Y		0.000	-0.9990E+30
Z-PC		2.000	0.000
Z-EXCAVATION		-8.500	0.000
Z-WATER_TABLE		-30.00	-0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL		0.000	0.000
ZQ		0.000	0.000
DZW_OF_THE_WATER_TABLE		0.000	0.000
QS_ON_THE_EXCAVATION_SIDE		0.000	0.000
ZQS		-0.9990E+30	-0.9990E+30
ZCUT		0.000	0.000
BALANCE LEVEL FOR PORE PRESSURES		-16.00	-16.00
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 6

LEFT-HAND WALL

LOWER LEVEL	-16.00000
UPPER LEVEL	2.00000

RIGHT-HAND WALL

LOWER LEVEL	-16.00000
UPPER LEVEL	2.00000


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+-----+
|          PARATIE PLUS 2014 NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Sept23, 2015*          |
|                                                                                                                                            |
|                                                                 NewProject.BaseDesignSection_25.Nominal_60                               |
|                                                                 Exe Time :29 June 2020      17:22:00                               |
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New Project

SOLUTION REACHED USING 2 ITERATIONS ON 40

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

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

Y-DISPL.F	X-ROT. F	(
(02)	(04)	

ALL NODAL POINTS HAVE ZERO DISPLACEMENT COMPONENTS

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+-----+
|                PARATIE PLUS 2014 NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Sept23, 2015*                |
|                                                                                                                    |
|                NewProject.BaseDesignSection_25.Nominal_60                                                         |
|                Exe Time :29 June 2020      17:22:00                                                                |
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New Project

STRESS RESULTS FOR GROUP NO. 1

0_L :
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 92
CURRENT TIME IS 1.0000

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 LAYER	MAX-H-P	STATE	STIFFNESS	Z-LEVEL	PORE	E FAC-
1	0.000	--	--	--	--	--	REMOVED	--	2.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
2	0.000	--	--	--	--	--	REMOVED	--	1.800	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
3	0.000	--	--	--	--	--	REMOVED	--	1.600	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
4	0.000	--	--	--	--	--	REMOVED	--	1.400	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
5	0.000	--	--	--	--	--	REMOVED	--	1.200	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
6	0.000	--	--	--	--	--	REMOVED	--	1.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
7	0.000	--	--	--	--	--	REMOVED	--	0.8000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
8	0.000	--	--	--	--	--	REMOVED	--	0.6000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
9 D	0.4806	6.1251E-21	2.001	2.403	2.001	2.403	V-C	8000.	0.4000	0.000	
1.000	1.000	2.403	0.000	0.000	FRANA_334_8_L_0						
10 D	1.109	5.9297E-21	6.002	5.545	6.002	5.545	V-C	8000.	0.2000	0.000	
1.000	1.000	5.545	0.000	0.000	FRANA_334_8_L_0						
11 D	1.737	5.7342E-21	10.00	8.687	10.00	8.687	V-C	8000.	-1.4901E-07	0.000	
1.000	1.000	8.687	0.000	0.000	FRANA_334_8_L_0						
12 D	2.366	5.5384E-21	14.00	11.83	14.00	11.83	V-C	8000.	-0.2000	0.000	
1.000	1.000	11.83	0.000	0.000	FRANA_334_8_L_0						
13 D	2.994	5.3420E-21	18.00	14.97	18.00	14.97	V-C	8000.	-0.4000	0.000	
1.000	1.000	14.97	0.000	0.000	FRANA_334_8_L_0						
14 D	3.622	5.1447E-21	22.01	18.11	22.01	18.11	V-C	8000.	-0.6000	0.000	
1.000	1.000	18.11	0.000	0.000	FRANA_334_8_L_0						
15 D	4.250	4.9459E-21	26.01	21.25	26.01	21.25	V-C	8000.	-0.8000	0.000	
1.000	1.000	21.25	0.000	0.000	FRANA_334_8_L_0						
16 D	4.878	4.7452E-21	30.01	24.39	30.01	24.39	V-C	8000.	-1.000	0.000	
1.000	1.000	24.39	0.000	0.000	FRANA_334_8_L_0						
17 D	5.506	4.5421E-21	34.01	27.53	34.01	27.53	V-C	8000.	-1.200	0.000	
1.000	1.000	27.53	0.000	0.000	FRANA_334_8_L_0						
18 D	6.134	4.3357E-21	38.01	30.67	38.01	30.67	V-C	8000.	-1.400	0.000	
1.000	1.000	30.67	0.000	0.000	FRANA_334_8_L_0						
19 D	6.761	4.1254E-21	42.02	33.81	42.02	33.81	V-C	8000.	-1.600	0.000	
1.000	1.000	33.81	0.000	0.000	FRANA_334_8_L_0						
20 D	7.389	3.9103E-21	46.02	36.94	46.02	36.94	V-C	8000.	-1.800	0.000	
1.000	1.000	36.94	0.000	0.000	FRANA_334_8_L_0						
21 D	4.077	3.6897E-21	50.02	27.18	50.02	27.18	V-C	3.6084E+04	-2.000	0.000	
1.000	1.000	27.18	0.000	0.000	BNA3(2)_335_337_L_0						
22 D	4.235	3.5770E-21	52.02	28.23	52.02	28.23	V-C	3.6084E+04	-2.100	0.000	
1.000	1.000	28.23	0.000	0.000	BNA3(2)_335_337_L_0						
23 D	6.068	3.3461E-21	56.03	30.34	56.03	30.34	V-C	3.6084E+04	-2.300	0.000	
1.000	1.000	30.34	0.000	0.000	BNA3(2)_335_337_L_0						
24 D	6.488	3.1071E-21	60.03	32.44	60.03	32.44	V-C	3.6084E+04	-2.500	0.000	
1.000	1.000	32.44	0.000	0.000	BNA3(2)_335_337_L_0						
25 D	6.909	2.8585E-21	64.03	34.54	64.03	34.54	V-C	3.6084E+04	-2.700	0.000	
1.000	1.000	34.54	0.000	0.000	BNA3(2)_335_337_L_0						
26 D	7.329	2.5990E-21	68.04	36.65	68.04	36.65	V-C	3.6084E+04	-2.900	0.000	
1.000	1.000	36.65	0.000	0.000	BNA3(2)_335_337_L_0						
27 D	7.750	2.3269E-21	72.04	38.75	72.04	38.75	V-C	3.6084E+04	-3.100	0.000	
1.000	1.000	38.75	0.000	0.000	BNA3(2)_335_337_L_0						
28 D	8.170	2.0406E-21	76.05	40.85	76.05	40.85	V-C	3.6084E+04	-3.300	0.000	
1.000	1.000	40.85	0.000	0.000	BNA3(2)_335_337_L_0						
29 D	8.590	1.7383E-21	80.05	42.95	80.05	42.95	V-C	3.6084E+04	-3.500	0.000	
1.000	1.000	42.95	0.000	0.000	BNA3(2)_335_337_L_0						
30 D	9.010	1.4181E-21	84.06	45.05	84.06	45.05	V-C	3.6084E+04	-3.700	0.000	
1.000	1.000	45.05	0.000	0.000	BNA3(2)_335_337_L_0						
31 D	9.429	1.0783E-21	88.07	47.15	88.07	47.15	V-C	3.6084E+04	-3.900	0.000	
1.000	1.000	47.15	0.000	0.000	BNA3(2)_335_337_L_0						
32 D	9.849	7.1678E-22	92.07	49.24	92.07	49.24	V-C	3.6084E+04	-4.100	0.000	
1.000	1.000	49.24	0.000	0.000	BNA3(2)_335_337_L_0						
33 D	10.27	3.3168E-22	96.08	51.34	96.08	51.34	V-C	3.6084E+04	-4.300	0.000	
1.000	1.000	51.34	0.000	0.000	BNA3(2)_335_337_L_0						

34 D	10.69	-7.8964E-23	100.1	53.44	100.1	53.44	V-C	3.6084E+04	-4.500	0.000
1.000	1.000	53.44	0.000	0.000	BNA3(2)_335_337_L_0					
35 D	11.11	-5.1707E-22	104.1	55.53	104.1	55.53	V-C	3.6084E+04	-4.700	0.000
1.000	1.000	55.53	0.000	0.000	BNA3(2)_335_337_L_0					
36 D	11.52	-9.8454E-22	108.1	57.62	108.1	57.62	V-C	3.6084E+04	-4.900	0.000
1.000	1.000	57.62	0.000	0.000	BNA3(2)_335_337_L_0					
37 D	11.94	-1.4832E-21	112.1	59.72	112.1	59.72	V-C	3.6084E+04	-5.100	0.000
1.000	1.000	59.72	0.000	0.000	BNA3(2)_335_337_L_0					
38 D	12.36	-2.0147E-21	116.1	61.81	116.1	61.81	V-C	3.6084E+04	-5.300	0.000
1.000	1.000	61.81	0.000	0.000	BNA3(2)_335_337_L_0					
39 D	12.78	-2.5808E-21	120.1	63.90	120.1	63.90	V-C	3.6084E+04	-5.500	0.000
1.000	1.000	63.90	0.000	0.000	BNA3(2)_335_337_L_0					
40 D	13.20	-3.1829E-21	124.1	65.99	124.1	65.99	V-C	3.6084E+04	-5.700	0.000
1.000	1.000	65.99	0.000	0.000	BNA3(2)_335_337_L_0					
41 D	13.62	-3.8224E-21	128.2	68.08	128.2	68.08	V-C	3.6084E+04	-5.900	0.000
1.000	1.000	68.08	0.000	0.000	BNA3(2)_335_337_L_0					
42 D	14.03	-4.5004E-21	132.2	70.17	132.2	70.17	V-C	3.6084E+04	-6.100	0.000
1.000	1.000	70.17	0.000	0.000	BNA3(2)_335_337_L_0					
43 D	14.45	-5.2178E-21	136.2	72.25	136.2	72.25	V-C	3.6084E+04	-6.300	0.000
1.000	1.000	72.25	0.000	0.000	BNA3(2)_335_337_L_0					
44 D	14.87	-5.9753E-21	140.2	74.34	140.2	74.34	V-C	3.6084E+04	-6.500	0.000
1.000	1.000	74.34	0.000	0.000	BNA3(2)_335_337_L_0					
45 D	15.28	-6.7734E-21	144.2	76.42	144.2	76.42	V-C	3.6084E+04	-6.700	0.000
1.000	1.000	76.42	0.000	0.000	BNA3(2)_335_337_L_0					
46 D	15.70	-7.6121E-21	148.2	78.51	148.2	78.51	V-C	3.6084E+04	-6.900	0.000
1.000	1.000	78.51	0.000	0.000	BNA3(2)_335_337_L_0					
47 D	16.12	-8.4913E-21	152.2	80.59	152.2	80.59	V-C	3.6084E+04	-7.100	0.000
1.000	1.000	80.59	0.000	0.000	BNA3(2)_335_337_L_0					
48 D	16.53	-9.4103E-21	156.2	82.67	156.2	82.67	V-C	3.6084E+04	-7.300	0.000
1.000	1.000	82.67	0.000	0.000	BNA3(2)_335_337_L_0					
49 D	16.95	-1.0368E-20	160.3	84.75	160.3	84.75	V-C	3.6084E+04	-7.500	0.000
1.000	1.000	84.75	0.000	0.000	BNA3(2)_335_337_L_0					
50 D	17.37	-1.1363E-20	164.3	86.83	164.3	86.83	V-C	3.6084E+04	-7.700	0.000
1.000	1.000	86.83	0.000	0.000	BNA3(2)_335_337_L_0					
51 D	17.78	-1.2394E-20	168.3	88.91	168.3	88.91	V-C	3.6084E+04	-7.900	0.000
1.000	1.000	88.91	0.000	0.000	BNA3(2)_335_337_L_0					
52 D	18.20	-1.3458E-20	172.3	90.98	172.3	90.98	V-C	3.6084E+04	-8.100	0.000
1.000	1.000	90.98	0.000	0.000	BNA3(2)_335_337_L_0					
53 D	18.61	-1.4553E-20	176.3	93.06	176.3	93.06	V-C	3.6084E+04	-8.300	0.000
1.000	1.000	93.06	0.000	0.000	BNA3(2)_335_337_L_0					
54 D	19.03	-1.5674E-20	180.3	95.13	180.3	95.13	V-C	3.6084E+04	-8.500	0.000
1.000	1.000	95.13	0.000	0.000	BNA3(2)_335_337_L_0					
55 D	19.44	-1.6818E-20	184.4	97.21	184.4	97.21	V-C	3.6084E+04	-8.700	0.000
1.000	1.000	97.21	0.000	0.000	BNA3(2)_335_337_L_0					
56 D	19.86	-1.7980E-20	188.4	99.28	188.4	99.28	V-C	3.6084E+04	-8.900	0.000
1.000	1.000	99.28	0.000	0.000	BNA3(2)_335_337_L_0					
57 D	20.27	-1.9154E-20	192.4	101.4	192.4	101.4	V-C	3.6084E+04	-9.100	0.000
1.000	1.000	101.4	0.000	0.000	BNA3(2)_335_337_L_0					
58 D	20.68	-2.0335E-20	196.4	103.4	196.4	103.4	V-C	3.6084E+04	-9.300	0.000
1.000	1.000	103.4	0.000	0.000	BNA3(2)_335_337_L_0					
59 D	21.10	-2.1516E-20	200.4	105.5	200.4	105.5	V-C	3.6084E+04	-9.500	0.000
1.000	1.000	105.5	0.000	0.000	BNA3(2)_335_337_L_0					
60 D	21.51	-2.2689E-20	204.5	107.6	204.5	107.6	V-C	3.6084E+04	-9.700	0.000
1.000	1.000	107.6	0.000	0.000	BNA3(2)_335_337_L_0					
61 D	21.92	-2.3846E-20	208.5	109.6	208.5	109.6	V-C	3.6084E+04	-9.900	0.000
1.000	1.000	109.6	0.000	0.000	BNA3(2)_335_337_L_0					
62 D	22.34	-2.4977E-20	212.5	111.7	212.5	111.7	V-C	3.6084E+04	-10.10	0.000
1.000	1.000	111.7	0.000	0.000	BNA3(2)_335_337_L_0					
63 D	22.75	-2.6073E-20	216.5	113.7	216.5	113.7	V-C	3.6084E+04	-10.30	0.000
1.000	1.000	113.7	0.000	0.000	BNA3(2)_335_337_L_0					
64 D	23.16	-2.7122E-20	220.5	115.8	220.5	115.8	V-C	3.6084E+04	-10.50	0.000
1.000	1.000	115.8	0.000	0.000	BNA3(2)_335_337_L_0					
65 D	23.57	-2.8112E-20	224.6	117.9	224.6	117.9	V-C	3.6084E+04	-10.70	0.000
1.000	1.000	117.9	0.000	0.000	BNA3(2)_335_337_L_0					
66 D	23.99	-2.9032E-20	228.6	119.9	228.6	119.9	V-C	3.6084E+04	-10.90	0.000
1.000	1.000	119.9	0.000	0.000	BNA3(2)_335_337_L_0					
67 D	24.40	-2.9866E-20	232.6	122.0	232.6	122.0	V-C	3.6084E+04	-11.10	0.000
1.000	1.000	122.0	0.000	0.000	BNA3(2)_335_337_L_0					
68 D	24.81	-3.0601E-20	236.6	124.0	236.6	124.0	V-C	3.6084E+04	-11.30	0.000
1.000	1.000	124.0	0.000	0.000	BNA3(2)_335_337_L_0					
69 D	25.22	-3.1221E-20	240.7	126.1	240.7	126.1	V-C	3.6084E+04	-11.50	0.000
1.000	1.000	126.1	0.000	0.000	BNA3(2)_335_337_L_0					
70 D	25.63	-3.1709E-20	244.7	128.2	244.7	128.2	V-C	3.6084E+04	-11.70	0.000
1.000	1.000	128.2	0.000	0.000	BNA3(2)_335_337_L_0					
71 D	26.04	-3.2046E-20	248.7	130.2	248.7	130.2	V-C	3.6084E+04	-11.90	0.000
1.000	1.000	130.2	0.000	0.000	BNA3(2)_335_337_L_0					
72 D	26.45	-3.2216E-20	252.7	132.3	252.7	132.3	V-C	3.6084E+04	-12.10	0.000
1.000	1.000	132.3	0.000	0.000	BNA3(2)_335_337_L_0					
73 D	26.86	-3.2197E-20	256.8	134.3	256.8	134.3	V-C	3.6084E+04	-12.30	0.000
1.000	1.000	134.3	0.000	0.000	BNA3(2)_335_337_L_0					
74 D	27.27	-3.1976E-20	260.8	136.4	260.8	136.4	V-C	3.6084E+04	-12.50	0.000
1.000	1.000	136.4	0.000	0.000	BNA3(2)_335_337_L_0					
75 D	27.68	-3.1568E-20	264.8	138.4	264.8	138.4	V-C	3.6084E+04	-12.70	0.000
1.000	1.000	138.4	0.000	0.000	BNA3(2)_335_337_L_0					
76 D	28.09	-3.0995E-20	268.8	140.5	268.8	140.5	V-C	3.6084E+04	-12.90	0.000
1.000	1.000	140.5	0.000	0.000	BNA3(2)_335_337_L_0					
77 D	32.69	-3.0277E-20	272.9	163.5	272.9	163.5	V-C	4.9053E+04	-13.10	0.000
1.000	1.000	163.5	0.000	0.000	BNA3(3)_336_338_L_0					
78 D	33.16	-2.9433E-20	276.9	165.8	276.9	165.8	V-C	4.9053E+04	-13.30	0.000
1.000	1.000	165.8	0.000	0.000	BNA3(3)_336_338_L_0					
79 D	33.63	-2.8481E-20	280.9	168.2	280.9	168.2	V-C	4.9053E+04	-13.50	0.000
1.000	1.000	168.2	0.000	0.000	BNA3(3)_336_338_L_0					

80 D	34.10	-2.7437E-20	285.0	170.5	285.0	170.5	V-C	4.9053E+04	-13.70	0.000
1.000	1.000	170.5	0.000	0.000	BNA3(3)_336_338_L_0					
81 D	34.57	-2.6315E-20	289.0	172.9	289.0	172.9	V-C	4.9053E+04	-13.90	0.000
1.000	1.000	172.9	0.000	0.000	BNA3(3)_336_338_L_0					
82 D	35.04	-2.5130E-20	293.0	175.2	293.0	175.2	V-C	4.9053E+04	-14.10	0.000
1.000	1.000	175.2	0.000	0.000	BNA3(3)_336_338_L_0					
83 D	35.51	-2.3894E-20	297.1	177.6	297.1	177.6	V-C	4.9053E+04	-14.30	0.000
1.000	1.000	177.6	0.000	0.000	BNA3(3)_336_338_L_0					
84 D	35.98	-2.2617E-20	301.1	179.9	301.1	179.9	V-C	4.9053E+04	-14.50	0.000
1.000	1.000	179.9	0.000	0.000	BNA3(3)_336_338_L_0					
85 D	36.45	-2.1308E-20	305.1	182.2	305.1	182.2	V-C	4.9053E+04	-14.70	0.000
1.000	1.000	182.2	0.000	0.000	BNA3(3)_336_338_L_0					
86 D	37.00	-1.9976E-20	308.2	184.0	308.2	184.0	V-C	4.9053E+04	-14.90	0.9999
1.000	1.000	185.0	0.000	0.000	BNA3(3)_336_338_L_0					
87 D	37.64	-1.8627E-20	310.2	185.2	310.2	185.2	V-C	4.9053E+04	-15.10	3.000
1.000	1.000	188.2	0.000	0.000	BNA3(3)_336_338_L_0					
88 D	38.28	-1.7268E-20	312.2	186.4	312.2	186.4	V-C	4.9053E+04	-15.30	5.000
1.000	1.000	191.4	0.000	0.000	BNA3(3)_336_338_L_0					
89 D	38.92	-1.5901E-20	314.2	187.6	314.2	187.6	V-C	4.9053E+04	-15.50	7.000
1.000	1.000	194.6	0.000	0.000	BNA3(3)_336_338_L_0					
90 D	39.55	-1.4531E-20	316.3	188.8	316.3	188.8	V-C	4.9053E+04	-15.70	9.000
1.000	1.000	197.8	0.000	0.000	BNA3(3)_336_338_L_0					
91 D	30.14	-1.3160E-20	318.3	190.0	318.3	190.0	V-C	4.9053E+04	-15.90	11.00
1.000	1.000	200.9	0.000	0.000	BNA3(3)_336_338_L_0					
92 D	10.13	-1.2474E-20	319.3	190.5	319.3	190.5	V-C	4.9053E+04	-16.00	12.00
1.000	1.000	202.5	0.000	0.000	BNA3(3)_336_338_L_0					

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|                PARATIE PLUS 2014 NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Sept23, 2015*                |
|                                                                                                                    |
|                NewProject.BaseDesignSection_25.Nominal_60                                                         |
|                Exe Time :29 June 2020 17:22:00                                                                    |
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New Project

STRESS RESULTS FOR GROUP NO. 2

O_R :
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 92
CURRENT TIME IS 1.0000

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 LAYER	MAX-H-P	STATE	STIFFNESS	Z-LEVEL	PORE	E FAC-
1	0.000	--	--	--	--	--	REMOVED	--	2.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
2	0.000	--	--	--	--	--	REMOVED	--	1.800	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
3	0.000	--	--	--	--	--	REMOVED	--	1.600	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
4	0.000	--	--	--	--	--	REMOVED	--	1.400	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
5	0.000	--	--	--	--	--	REMOVED	--	1.200	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
6	0.000	--	--	--	--	--	REMOVED	--	1.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
7	0.000	--	--	--	--	--	REMOVED	--	0.8000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
8	0.000	--	--	--	--	--	REMOVED	--	0.6000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
9 D	0.4806	-6.1251E-21	2.000	2.403	2.000	2.403	V-C	9766.	0.4000	0.000	
1.000	1.000	2.403	0.000	0.000	FRANA_334_8_L_0						
10 D	1.109	-5.9297E-21	6.000	5.545	6.000	5.545	V-C	9766.	0.2000	0.000	
1.000	1.000	5.545	0.000	0.000	FRANA_334_8_L_0						
11 D	1.737	-5.7342E-21	10.00	8.687	10.00	8.687	V-C	9766.	-1.4901E-07	0.000	
1.000	1.000	8.687	0.000	0.000	FRANA_334_8_L_0						
12 D	2.366	-5.5384E-21	14.00	11.83	14.00	11.83	V-C	9766.	-0.2000	0.000	
1.000	1.000	11.83	0.000	0.000	FRANA_334_8_L_0						
13 D	2.994	-5.3420E-21	18.00	14.97	18.00	14.97	V-C	9766.	-0.4000	0.000	
1.000	1.000	14.97	0.000	0.000	FRANA_334_8_L_0						
14 D	3.622	-5.1447E-21	22.00	18.11	22.00	18.11	V-C	9766.	-0.6000	0.000	
1.000	1.000	18.11	0.000	0.000	FRANA_334_8_L_0						
15 D	4.250	-4.9459E-21	26.00	21.25	26.00	21.25	V-C	9766.	-0.8000	0.000	
1.000	1.000	21.25	0.000	0.000	FRANA_334_8_L_0						
16 D	4.878	-4.7452E-21	30.00	24.39	30.00	24.39	V-C	9766.	-1.000	0.000	
1.000	1.000	24.39	0.000	0.000	FRANA_334_8_L_0						
17 D	5.506	-4.5421E-21	34.00	27.53	34.00	27.53	V-C	9766.	-1.200	0.000	
1.000	1.000	27.53	0.000	0.000	FRANA_334_8_L_0						
18 D	6.134	-4.3357E-21	38.00	30.67	38.00	30.67	V-C	9766.	-1.400	0.000	
1.000	1.000	30.67	0.000	0.000	FRANA_334_8_L_0						
19 D	6.761	-4.1254E-21	42.00	33.81	42.00	33.81	V-C	9766.	-1.600	0.000	
1.000	1.000	33.81	0.000	0.000	FRANA_334_8_L_0						
20 D	7.389	-3.9103E-21	46.00	36.94	46.00	36.94	V-C	9766.	-1.800	0.000	
1.000	1.000	36.94	0.000	0.000	FRANA_334_8_L_0						
21 D	4.077	-3.6897E-21	50.00	27.18	50.00	27.18	V-C	2.4056E+04	-2.000	0.000	
1.000	1.000	27.18	0.000	0.000	BNA3(2)_335_337_L_0						
22 D	4.235	-3.5770E-21	52.00	28.23	52.00	28.23	V-C	2.4056E+04	-2.100	0.000	
1.000	1.000	28.23	0.000	0.000	BNA3(2)_335_337_L_0						
23 D	6.068	-3.3461E-21	56.00	30.34	56.00	30.34	V-C	2.4056E+04	-2.300	0.000	
1.000	1.000	30.34	0.000	0.000	BNA3(2)_335_337_L_0						
24 D	6.488	-3.1071E-21	60.00	32.44	60.00	32.44	V-C	2.4056E+04	-2.500	0.000	
1.000	1.000	32.44	0.000	0.000	BNA3(2)_335_337_L_0						
25 D	6.909	-2.8585E-21	64.00	34.54	64.00	34.54	V-C	2.4056E+04	-2.700	0.000	
1.000	1.000	34.54	0.000	0.000	BNA3(2)_335_337_L_0						
26 D	7.329	-2.5990E-21	68.00	36.65	68.00	36.65	V-C	2.4056E+04	-2.900	0.000	
1.000	1.000	36.65	0.000	0.000	BNA3(2)_335_337_L_0						
27 D	7.750	-2.3269E-21	72.00	38.75	72.00	38.75	V-C	2.4056E+04	-3.100	0.000	
1.000	1.000	38.75	0.000	0.000	BNA3(2)_335_337_L_0						
28 D	8.170	-2.0406E-21	76.00	40.85	76.00	40.85	V-C	2.4056E+04	-3.300	0.000	
1.000	1.000	40.85	0.000	0.000	BNA3(2)_335_337_L_0						
29 D	8.590	-1.7383E-21	80.00	42.95	80.00	42.95	V-C	2.4056E+04	-3.500	0.000	
1.000	1.000	42.95	0.000	0.000	BNA3(2)_335_337_L_0						
30 D	9.010	-1.4181E-21	84.00	45.05	84.00	45.05	V-C	2.4056E+04	-3.700	0.000	
1.000	1.000	45.05	0.000	0.000	BNA3(2)_335_337_L_0						
31 D	9.429	-1.0783E-21	88.00	47.15	88.00	47.15	V-C	2.4056E+04	-3.900	0.000	
1.000	1.000	47.15	0.000	0.000	BNA3(2)_335_337_L_0						
32 D	9.849	-7.1678E-22	92.00	49.24	92.00	49.24	V-C	2.4056E+04	-4.100	0.000	
1.000	1.000	49.24	0.000	0.000	BNA3(2)_335_337_L_0						
33 D	10.27	-3.3168E-22	96.00	51.34	96.00	51.34	V-C	2.4056E+04	-4.300	0.000	
1.000	1.000	51.34	0.000	0.000	BNA3(2)_335_337_L_0						

34 D	10.69	7.8964E-23	100.0	53.44	100.0	53.44	V-C	2.4056E+04	-4.500	0.000
1.000	1.000	53.44	0.000	0.000	BNA3(2)_335_337_L_0					
35 D	11.11	5.1707E-22	104.0	55.53	104.0	55.53	V-C	2.4056E+04	-4.700	0.000
1.000	1.000	55.53	0.000	0.000	BNA3(2)_335_337_L_0					
36 D	11.52	9.8454E-22	108.0	57.62	108.0	57.62	V-C	2.4056E+04	-4.900	0.000
1.000	1.000	57.62	0.000	0.000	BNA3(2)_335_337_L_0					
37 D	11.94	1.4832E-21	112.0	59.72	112.0	59.72	V-C	2.4056E+04	-5.100	0.000
1.000	1.000	59.72	0.000	0.000	BNA3(2)_335_337_L_0					
38 D	12.36	2.0147E-21	116.0	61.81	116.0	61.81	V-C	2.4056E+04	-5.300	0.000
1.000	1.000	61.81	0.000	0.000	BNA3(2)_335_337_L_0					
39 D	12.78	2.5808E-21	120.0	63.90	120.0	63.90	V-C	2.4056E+04	-5.500	0.000
1.000	1.000	63.90	0.000	0.000	BNA3(2)_335_337_L_0					
40 D	13.20	3.1829E-21	124.0	65.99	124.0	65.99	V-C	2.4056E+04	-5.700	0.000
1.000	1.000	65.99	0.000	0.000	BNA3(2)_335_337_L_0					
41 D	13.62	3.8224E-21	128.0	68.08	128.0	68.08	V-C	2.4056E+04	-5.900	0.000
1.000	1.000	68.08	0.000	0.000	BNA3(2)_335_337_L_0					
42 D	14.03	4.5004E-21	132.0	70.17	132.0	70.17	V-C	2.4056E+04	-6.100	0.000
1.000	1.000	70.17	0.000	0.000	BNA3(2)_335_337_L_0					
43 D	14.45	5.2178E-21	136.0	72.25	136.0	72.25	V-C	2.4056E+04	-6.300	0.000
1.000	1.000	72.25	0.000	0.000	BNA3(2)_335_337_L_0					
44 D	14.87	5.9753E-21	140.0	74.34	140.0	74.34	V-C	2.4056E+04	-6.500	0.000
1.000	1.000	74.34	0.000	0.000	BNA3(2)_335_337_L_0					
45 D	15.28	6.7734E-21	144.0	76.42	144.0	76.42	V-C	2.4056E+04	-6.700	0.000
1.000	1.000	76.42	0.000	0.000	BNA3(2)_335_337_L_0					
46 D	15.70	7.6121E-21	148.0	78.51	148.0	78.51	V-C	2.4056E+04	-6.900	0.000
1.000	1.000	78.51	0.000	0.000	BNA3(2)_335_337_L_0					
47 D	16.12	8.4913E-21	152.0	80.59	152.0	80.59	V-C	2.4056E+04	-7.100	0.000
1.000	1.000	80.59	0.000	0.000	BNA3(2)_335_337_L_0					
48 D	16.53	9.4103E-21	156.0	82.67	156.0	82.67	V-C	2.4056E+04	-7.300	0.000
1.000	1.000	82.67	0.000	0.000	BNA3(2)_335_337_L_0					
49 D	16.95	1.0368E-20	160.0	84.75	160.0	84.75	V-C	2.4056E+04	-7.500	0.000
1.000	1.000	84.75	0.000	0.000	BNA3(2)_335_337_L_0					
50 D	17.37	1.1363E-20	164.0	86.83	164.0	86.83	V-C	2.4056E+04	-7.700	0.000
1.000	1.000	86.83	0.000	0.000	BNA3(2)_335_337_L_0					
51 D	17.78	1.2394E-20	168.0	88.91	168.0	88.91	V-C	2.4056E+04	-7.900	0.000
1.000	1.000	88.91	0.000	0.000	BNA3(2)_335_337_L_0					
52 D	18.20	1.3458E-20	172.0	90.98	172.0	90.98	V-C	2.4056E+04	-8.100	0.000
1.000	1.000	90.98	0.000	0.000	BNA3(2)_335_337_L_0					
53 D	18.61	1.4553E-20	176.0	93.06	176.0	93.06	V-C	2.4056E+04	-8.300	0.000
1.000	1.000	93.06	0.000	0.000	BNA3(2)_335_337_L_0					
54 D	19.03	1.5674E-20	180.0	95.13	180.0	95.13	V-C	2.4056E+04	-8.500	0.000
1.000	1.000	95.13	0.000	0.000	BNA3(2)_335_337_L_0					
55 D	19.44	1.6818E-20	184.0	97.21	184.0	97.21	V-C	2.4056E+04	-8.700	0.000
1.000	1.000	97.21	0.000	0.000	BNA3(2)_335_337_L_0					
56 D	19.86	1.7980E-20	188.0	99.28	188.0	99.28	V-C	2.4056E+04	-8.900	0.000
1.000	1.000	99.28	0.000	0.000	BNA3(2)_335_337_L_0					
57 D	20.27	1.9154E-20	192.0	101.4	192.0	101.4	V-C	2.4056E+04	-9.100	0.000
1.000	1.000	101.4	0.000	0.000	BNA3(2)_335_337_L_0					
58 D	20.68	2.0335E-20	196.0	103.4	196.0	103.4	V-C	2.4056E+04	-9.300	0.000
1.000	1.000	103.4	0.000	0.000	BNA3(2)_335_337_L_0					
59 D	21.10	2.1516E-20	200.0	105.5	200.0	105.5	V-C	2.4056E+04	-9.500	0.000
1.000	1.000	105.5	0.000	0.000	BNA3(2)_335_337_L_0					
60 D	21.51	2.2689E-20	204.0	107.6	204.0	107.6	V-C	2.4056E+04	-9.700	0.000
1.000	1.000	107.6	0.000	0.000	BNA3(2)_335_337_L_0					
61 D	21.92	2.3846E-20	208.0	109.6	208.0	109.6	V-C	2.4056E+04	-9.900	0.000
1.000	1.000	109.6	0.000	0.000	BNA3(2)_335_337_L_0					
62 D	22.34	2.4977E-20	212.0	111.7	212.0	111.7	V-C	2.4056E+04	-10.10	0.000
1.000	1.000	111.7	0.000	0.000	BNA3(2)_335_337_L_0					
63 D	22.75	2.6073E-20	216.0	113.7	216.0	113.7	V-C	2.4056E+04	-10.30	0.000
1.000	1.000	113.7	0.000	0.000	BNA3(2)_335_337_L_0					
64 D	23.16	2.7122E-20	220.0	115.8	220.0	115.8	V-C	2.4056E+04	-10.50	0.000
1.000	1.000	115.8	0.000	0.000	BNA3(2)_335_337_L_0					
65 D	23.57	2.8112E-20	224.0	117.9	224.0	117.9	V-C	2.4056E+04	-10.70	0.000
1.000	1.000	117.9	0.000	0.000	BNA3(2)_335_337_L_0					
66 D	23.99	2.9032E-20	228.0	119.9	228.0	119.9	V-C	2.4056E+04	-10.90	0.000
1.000	1.000	119.9	0.000	0.000	BNA3(2)_335_337_L_0					
67 D	24.40	2.9866E-20	232.0	122.0	232.0	122.0	V-C	2.4056E+04	-11.10	0.000
1.000	1.000	122.0	0.000	0.000	BNA3(2)_335_337_L_0					
68 D	24.81	3.0601E-20	236.0	124.0	236.0	124.0	V-C	2.4056E+04	-11.30	0.000
1.000	1.000	124.0	0.000	0.000	BNA3(2)_335_337_L_0					
69 D	25.22	3.1221E-20	240.0	126.1	240.0	126.1	V-C	2.4056E+04	-11.50	0.000
1.000	1.000	126.1	0.000	0.000	BNA3(2)_335_337_L_0					
70 D	25.63	3.1709E-20	244.0	128.2	244.0	128.2	V-C	2.4056E+04	-11.70	0.000
1.000	1.000	128.2	0.000	0.000	BNA3(2)_335_337_L_0					
71 D	26.04	3.2046E-20	248.0	130.2	248.0	130.2	V-C	2.4056E+04	-11.90	0.000
1.000	1.000	130.2	0.000	0.000	BNA3(2)_335_337_L_0					
72 D	26.45	3.2216E-20	252.0	132.3	252.0	132.3	V-C	2.4056E+04	-12.10	0.000
1.000	1.000	132.3	0.000	0.000	BNA3(2)_335_337_L_0					
73 D	26.86	3.2197E-20	256.0	134.3	256.0	134.3	V-C	2.4056E+04	-12.30	0.000
1.000	1.000	134.3	0.000	0.000	BNA3(2)_335_337_L_0					
74 D	27.27	3.1976E-20	260.0	136.4	260.0	136.4	V-C	2.4056E+04	-12.50	0.000
1.000	1.000	136.4	0.000	0.000	BNA3(2)_335_337_L_0					
75 D	27.68	3.1568E-20	264.0	138.4	264.0	138.4	V-C	2.4056E+04	-12.70	0.000
1.000	1.000	138.4	0.000	0.000	BNA3(2)_335_337_L_0					
76 D	28.09	3.0995E-20	268.0	140.5	268.0	140.5	V-C	2.4056E+04	-12.90	0.000
1.000	1.000	140.5	0.000	0.000	BNA3(2)_335_337_L_0					
77 D	32.69	3.0277E-20	272.0	163.5	272.0	163.5	V-C	3.9817E+04	-13.10	0.000
1.000	1.000	163.5	0.000	0.000	BNA3(3)_336_338_L_0					
78 D	33.16	2.9433E-20	276.0	165.8	276.0	165.8	V-C	3.9817E+04	-13.30	0.000
1.000	1.000	165.8	0.000	0.000	BNA3(3)_336_338_L_0					
79 D	33.63	2.8481E-20	280.0	168.2	280.0	168.2	V-C	3.9817E+04	-13.50	0.000
1.000	1.000	168.2	0.000	0.000	BNA3(3)_336_338_L_0					

80 D	34.10	2.7437E-20	284.0	170.5	284.0	170.5	V-C	3.9817E+04	-13.70	0.000
1.000	1.000	170.5	0.000	0.000	BNA3(3)_336_338_L_0					
81 D	34.57	2.6315E-20	288.0	172.9	288.0	172.9	V-C	3.9817E+04	-13.90	0.000
1.000	1.000	172.9	0.000	0.000	BNA3(3)_336_338_L_0					
82 D	35.04	2.5130E-20	292.0	175.2	292.0	175.2	V-C	3.9817E+04	-14.10	0.000
1.000	1.000	175.2	0.000	0.000	BNA3(3)_336_338_L_0					
83 D	35.51	2.3894E-20	296.0	177.6	296.0	177.6	V-C	3.9817E+04	-14.30	0.000
1.000	1.000	177.6	0.000	0.000	BNA3(3)_336_338_L_0					
84 D	35.98	2.2617E-20	300.0	179.9	300.0	179.9	V-C	3.9817E+04	-14.50	0.000
1.000	1.000	179.9	0.000	0.000	BNA3(3)_336_338_L_0					
85 D	36.45	2.1308E-20	304.0	182.2	304.0	182.2	V-C	3.9817E+04	-14.70	0.000
1.000	1.000	182.2	0.000	0.000	BNA3(3)_336_338_L_0					
86 D	37.00	1.9976E-20	307.0	184.0	307.0	184.0	V-C	3.9817E+04	-14.90	0.9999
1.000	1.000	185.0	0.000	0.000	BNA3(3)_336_338_L_0					
87 D	37.64	1.8627E-20	309.0	185.2	309.0	185.2	V-C	3.9817E+04	-15.10	3.000
1.000	1.000	188.2	0.000	0.000	BNA3(3)_336_338_L_0					
88 D	38.28	1.7268E-20	311.0	186.4	311.0	186.4	V-C	3.9817E+04	-15.30	5.000
1.000	1.000	191.4	0.000	0.000	BNA3(3)_336_338_L_0					
89 D	38.92	1.5901E-20	313.0	187.6	313.0	187.6	V-C	3.9817E+04	-15.50	7.000
1.000	1.000	194.6	0.000	0.000	BNA3(3)_336_338_L_0					
90 D	39.55	1.4531E-20	315.0	188.8	315.0	188.8	V-C	3.9817E+04	-15.70	9.000
1.000	1.000	197.8	0.000	0.000	BNA3(3)_336_338_L_0					
91 D	30.14	1.3160E-20	317.0	190.0	317.0	190.0	V-C	3.9817E+04	-15.90	11.00
1.000	1.000	200.9	0.000	0.000	BNA3(3)_336_338_L_0					
92 D	10.13	1.2474E-20	318.0	190.5	318.0	190.5	V-C	3.9817E+04	-16.00	12.00
1.000	1.000	202.5	0.000	0.000	BNA3(3)_336_338_L_0					

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|                PARATIE PLUS 2014 NLS ENGINE RELEASE  2016  FULL VERSION  *Build date: Sept23, 2015*                |
|                                                                                                                                            |
|                                                                                                                                            |
|                NewProject.BaseDesignSection_25.Nominal_60                                                                              |
|                Exe Time :29 June 2020      17:22:00                                                                              |
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New Project

STRESS RESULTS FOR GROUP NO. 3

WallElement_30 :
ELEMENT TYPE 2 NO.OF ELEMENTS. IN THIS GROUP 91
CURRENT TIME IS 1.0000

WALL2D ELEMENT

EL	TA	TB	MA	MB
1	-1.61559E-27	1.61559E-27	-4.21252E-28	-4.38607E-28
2	2.72630E-27	-2.72630E-27	4.48073E-28	2.90301E-28
3	4.79627E-28	-4.79627E-28	-2.66635E-28	7.25752E-29
4	2.09521E-27	-2.09521E-27	-4.96982E-28	8.23571E-28
5	4.64481E-27	-4.64481E-27	-8.80369E-28	1.47044E-27
6	5.04871E-29	-5.04871E-29	-1.40102E-27	1.43888E-27
7	2.65057E-27	-2.65057E-27	-1.50041E-27	2.24983E-27
8	1.03499E-27	-1.03499E-27	-2.36974E-27	2.32872E-27
9	1.56569E-17	-1.56569E-17	-2.55433E-27	3.13137E-18
10	3.07046E-17	-3.07046E-17	-3.13137E-18	9.27229E-18
11	4.51429E-17	-4.51429E-17	-9.27229E-18	1.83009E-17
12	5.89713E-17	-5.89713E-17	-1.83009E-17	3.00951E-17
13	7.21883E-17	-7.21883E-17	-3.00951E-17	4.45328E-17
14	8.47921E-17	-8.47921E-17	-4.45328E-17	6.14912E-17
15	9.67796E-17	-9.67796E-17	-6.14912E-17	8.08471E-17
16	1.08147E-16	-1.08147E-16	-8.08471E-17	1.02476E-16
17	1.18888E-16	-1.18888E-16	-1.02476E-16	1.26254E-16
18	1.28998E-16	-1.28998E-16	-1.26254E-16	1.52054E-16
19	1.38467E-16	-1.38467E-16	-1.52054E-16	1.79747E-16
20	1.47286E-16	-1.47286E-16	-1.79747E-16	2.09204E-16
21	1.67998E-16	-1.67998E-16	-2.09204E-16	2.26004E-16
22	1.87857E-16	-1.87857E-16	-2.26004E-16	2.63576E-16
23	2.12029E-16	-2.12029E-16	-2.63576E-16	3.05981E-16
24	2.33837E-16	-2.33837E-16	-3.05981E-16	3.52749E-16
25	2.53219E-16	-2.53219E-16	-3.52749E-16	4.03392E-16
26	2.70104E-16	-2.70104E-16	-4.03392E-16	4.57413E-16
27	2.84413E-16	-2.84413E-16	-4.57413E-16	5.14296E-16
28	2.96057E-16	-2.96057E-16	-5.14296E-16	5.73507E-16
29	3.04940E-16	-3.04940E-16	-5.73507E-16	6.34495E-16
30	3.10957E-16	-3.10957E-16	-6.34495E-16	6.96687E-16
31	3.13993E-16	-3.13993E-16	-6.96687E-16	7.59485E-16
32	3.13926E-16	-3.13926E-16	-7.59485E-16	8.22271E-16
33	3.10628E-16	-3.10628E-16	-8.22271E-16	8.84396E-16
34	3.03961E-16	-3.03961E-16	-8.84396E-16	9.45188E-16
35	2.93783E-16	-2.93783E-16	-9.45188E-16	1.00394E-15
36	2.79947E-16	-2.79947E-16	-1.00394E-15	1.05993E-15
37	2.62301E-16	-2.62301E-16	-1.05993E-15	1.11239E-15
38	2.40690E-16	-2.40690E-16	-1.11239E-15	1.16053E-15
39	2.14958E-16	-2.14958E-16	-1.16053E-15	1.20352E-15
40	1.84949E-16	-1.84949E-16	-1.20352E-15	1.24051E-15
41	1.50507E-16	-1.50507E-16	-1.24051E-15	1.27061E-15
42	1.11481E-16	-1.11481E-16	-1.27061E-15	1.29291E-15
43	6.77222E-17	-6.77222E-17	-1.29291E-15	1.30646E-15
44	1.90908E-17	-1.90908E-17	-1.30646E-15	1.31027E-15
45	-3.45466E-17	3.45466E-17	-1.31027E-15	1.30336E-15
46	-9.33123E-17	9.33123E-17	-1.30336E-15	1.28470E-15
47	-1.57317E-16	1.57317E-16	-1.28470E-15	1.25324E-15
48	-2.26657E-16	2.26657E-16	-1.25324E-15	1.20791E-15
49	-3.01413E-16	3.01413E-16	-1.20791E-15	1.14762E-15
50	-3.81647E-16	3.81647E-16	-1.14762E-15	1.07130E-15
51	-4.67401E-16	4.67401E-16	-1.07130E-15	9.77815E-16
52	-5.58699E-16	5.58699E-16	-9.77815E-16	8.66075E-16
53	-6.55537E-16	6.55537E-16	-8.66075E-16	7.34968E-16
54	-7.57888E-16	7.57888E-16	-7.34968E-16	5.83390E-16
55	-8.65701E-16	8.65701E-16	-5.83390E-16	4.10250E-16
56	-9.78895E-16	9.78895E-16	-4.10250E-16	2.14471E-16
57	-1.09736E-15	1.09736E-15	-2.14471E-16	5.00051E-18
58	-1.22096E-15	1.22096E-15	-5.00051E-18	2.49193E-16
59	-1.34954E-15	1.34954E-15	-2.49193E-16	5.19101E-16
60	-1.48288E-15	1.48288E-15	-5.19101E-16	8.15676E-16
61	-1.62077E-15	1.62077E-15	-8.15676E-16	1.13983E-15
62	-1.76295E-15	1.76295E-15	-1.13983E-15	1.49242E-15
63	-1.90913E-15	1.90913E-15	-1.49242E-15	1.87425E-15
64	-2.05901E-15	2.05901E-15	-1.87425E-15	2.28605E-15
65	-2.21225E-15	2.21225E-15	-2.28605E-15	2.72850E-15
66	-2.36849E-15	2.36849E-15	-2.72850E-15	3.20220E-15
67	-2.52735E-15	2.52735E-15	-3.20220E-15	3.70767E-15
68	-2.68843E-15	2.68843E-15	-3.70767E-15	4.24536E-15
69	-2.85131E-15	2.85131E-15	-4.24536E-15	4.81562E-15
70	-3.01557E-15	3.01557E-15	-4.81562E-15	5.41871E-15

71-3.18077E-15 3.18077E-15 5.41871E-15-6.05486E-15
72-3.34648E-15 3.34648E-15 6.05486E-15-6.72416E-15
73 3.59318E-15-3.59318E-15 6.72416E-15-6.00552E-15
74 3.42778E-15-3.42778E-15 6.00552E-15-5.31997E-15
75 3.26318E-15-3.26318E-15 5.31997E-15-4.66733E-15
76 3.09979E-15-3.09979E-15 4.66733E-15-4.04737E-15
77 2.86074E-15-2.86074E-15 4.04737E-15-3.47522E-15
78 2.62463E-15-2.62463E-15 3.47522E-15-2.95030E-15
79 2.39199E-15-2.39199E-15 2.95030E-15-2.47190E-15
80 2.16331E-15-2.16331E-15 2.47190E-15-2.03924E-15
81 1.93902E-15-1.93902E-15 2.03924E-15-1.65143E-15
82 1.71951E-15-1.71951E-15 1.65143E-15-1.30753E-15
83 1.50513E-15-1.50513E-15 1.30753E-15-1.00650E-15
84 1.29616E-15-1.29616E-15 1.00650E-15-7.47272E-16
85 1.09285E-15-1.09285E-15 7.47272E-16-5.28702E-16
86 8.95373E-16-8.95373E-16 5.28702E-16-3.49627E-16
87 7.03879E-16-7.03879E-16 3.49627E-16-2.08852E-16
88 5.18467E-16-5.18467E-16 2.08852E-16-1.05158E-16
89 3.39201E-16-3.39201E-16 1.05158E-16-3.73182E-17
90 1.66115E-16-1.66115E-16 3.73182E-17-4.09518E-18
91 4.09477E-17-4.09477E-17 4.09518E-18-1.11072E-27

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|          PARATIE PLUS 2014 NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Sept23, 2015*          |
|                                                                                                                                            |
|                                                                                                                                            |
|                                                                                                                                            |
|          NewProject.BaseDesignSection_25.Nominal_60                                                                                       |
|          Exe Time :29 June 2020      17:22:00                                                                                             |
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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 . 4

Tieback_341 :
ELEMENT TYPE 6 NO.OF ELEMENTS. IN THIS GROUP 1
C U R R E N T T I M E I S 1.0000

POST-TENSION 2D-BOUNDARY ELEMENT

EL	FORCE	d0	EDISPL	pl. eps	K	-ve limit	+ve limit

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

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|                PARATIE PLUS 2014 NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Sept23, 2015*                |
|                                                                                                                                            |
|                NewProject.BaseDesignSection_25.Nominal_60                                                                              |
|                Exe Time :29 June 2020      17:22:00                                                                              |
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New Project

STRESS RESULTS FOR GROUP NO. 5

Tieback_342 :
ELEMENT TYPE 6 NO.OF ELEMENTS. IN THIS GROUP 1
CURRENT TIME IS 1.0000

POST-TENSION 2D-BOUNDARY ELEMENT

EL	FORCE	d0	EDISPL	pl. eps	K	-ve limit	+ve limit
----	-------	----	--------	---------	---	-----------	-----------

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

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ITER 0 RNORM = 0.000 RMNORM= 0.000
RINORM=0.7445E+05 RIMNOR=0.7371E-27
RENORM= 496.6 REMNOR=0.3049E-52 RATIO =0.8167E-01 TOLER =0.1000E-03 NOT CONVERGED
RFMAX = 39.55 RMMAX =0.6724E-14
RTSMAL=0.1000E-03 RMSMAL=0.1000E-19
RDT =0.7445E+05 RDR =0.1000E-19
RATIOT=0.8167E-01 RATIO= 0.000
MAX UN= 7.389 IEQ= 39 NODE 20 DOF 1 Y-DISPL.F
MIN UN=-.8883E-17 IEQ= 57 NODE 29 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

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ITER 2 RNORM = 0.000 RMNORM= 0.000
RINORM=0.7445E+05 RIMNOR=0.7371E-27
RENORM= 47.06 REMNOR=0.7113E-19 RATIO =0.2514E-01 TOLER =0.1000E-03 NOT CONVERGED
RFMAX = 39.55 RMMAX =0.6724E-14
RTSMAL=0.1000E-03 RMSMAL=0.1000E-19
RDT =0.7445E+05 RDR =0.1000E-19
RATIOT=0.2514E-01 RATIO= 0.000
MAX UN= 2.720 IEQ= 45 NODE 23 DOF 1 Y-DISPL.F
MIN UN=-.2507E-02 IEQ= 173 NODE 87 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

```

```

ITER 3 RNORM = 0.000 RMNORM= 0.000
RINORM=0.7445E+05 RIMNOR=0.7371E-27
RENORM= 18.91 REMNOR=0.1862E-18 RATIO =0.1594E-01 TOLER =0.1000E-03 NOT CONVERGED
RFMAX = 39.55 RMMAX =0.6724E-14
RTSMAL=0.1000E-03 RMSMAL=0.1000E-19
RDT =0.7445E+05 RDR =0.1000E-19
RATIOT=0.1594E-01 RATIO= 0.000
MAX UN= 2.929 IEQ= 57 NODE 29 DOF 1 Y-DISPL.F
MIN UN=-.6562E-08 IEQ= 41 NODE 21 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

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ITER 4 RNORM = 0.000 RMNORM= 0.000
RINORM=0.7445E+05 RIMNOR=0.7371E-27
RENORM=0.2945 REMNOR=0.1545E-18 RATIO =0.1989E-02 TOLER =0.1000E-03 NOT CONVERGED
RFMAX = 39.55 RMMAX =0.6724E-14
RTSMAL=0.1000E-03 RMSMAL=0.1000E-19
RDT =0.7445E+05 RDR =0.1000E-19
RATIOT=0.1989E-02 RATIO= 0.000
MAX UN=0.5383 IEQ= 67 NODE 34 DOF 1 Y-DISPL.F
MIN UN=-.4161E-01 IEQ= 99 NODE 50 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

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ITER 5 RNORM = 0.000 RMNORM= 0.000
RINORM=0.7445E+05 RIMNOR=0.7371E-27
RENORM=0.9497E-07 REMNOR=0.1266E-18 RATIO =0.1129E-05 TOLER =0.1000E-03 CONVERGED !
RFMAX = 39.55 RMMAX =0.6724E-14
RTSMAL=0.1000E-03 RMSMAL=0.1000E-19
RDT =0.7445E+05 RDR =0.1000E-19
RATIOT=0.1129E-05 RATIO= 0.000
MAX UN=0.2456E-08 IEQ= 43 NODE 22 DOF 1 Y-DISPL.F
MIN UN=-.3046E-03 IEQ= 111 NODE 56 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

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|                PARATIE PLUS 2014 NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Sept23, 2015*                |
|                                                                                                                                            |
|                                                                                                                                            |
|                NewProject.BaseDesignSection_25.Nominal_60                                                                              |
|                Exe Time :29 June 2020      17:22:00                                                                              |
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New Project
SOLUTION REACHED USING 5 ITERATIONS ON 40

PRINT OUT FOR TIME STEP 2 (AT TIME 2.000)

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

	Y-DISPL.F (02)	X-ROT. F (04)	(
1	4.8481592E-03	-6.4100310E-04	
2	4.7199586E-03	-6.4100310E-04	
3	4.5917580E-03	-6.4100310E-04	
4	4.4635574E-03	-6.4100310E-04	
5	4.3353568E-03	-6.4100310E-04	
6	4.2071560E-03	-6.4100310E-04	
7	4.0789554E-03	-6.4100310E-04	
8	3.9507548E-03	-6.4100310E-04	
9	3.8225542E-03	-6.4100310E-04	
10	3.6943538E-03	-6.4099931E-04	
11	3.5661557E-03	-6.4097656E-04	
12	3.4379664E-03	-6.4090452E-04	
13	3.3098002E-03	-6.4073769E-04	
14	3.1816818E-03	-6.4041541E-04	
15	3.0536495E-03	-6.3986187E-04	
16	2.9257586E-03	-6.3898606E-04	
17	2.7980837E-03	-6.3768184E-04	
18	2.6707225E-03	-6.3582788E-04	
19	2.5437983E-03	-6.3328768E-04	
20	2.4174633E-03	-6.2990958E-04	
21	2.2919015E-03	-6.2552674E-04	
22	2.2294768E-03	-6.2291782E-04	
23	2.1054847E-03	-6.1679925E-04	
24	1.9828420E-03	-6.0940827E-04	
25	1.8618131E-03	-6.0064275E-04	
26	1.7426839E-03	-5.9039226E-04	
27	1.6257631E-03	-5.7853811E-04	
28	1.5113818E-03	-5.6498545E-04	
29	1.3998833E-03	-5.4971663E-04	
30	1.2916042E-03	-5.3281228E-04	
31	1.1868558E-03	-5.1444750E-04	
32	1.0859080E-03	-4.9484118E-04	
33	9.8898765E-04	-4.7420928E-04	
34	8.9627844E-04	-4.5276510E-04	
35	8.0792170E-04	-4.3071959E-04	
36	7.2401686E-04	-4.0828031E-04	
37	6.4462324E-04	-3.8564202E-04	
38	5.6976214E-04	-3.6297838E-04	
39	4.9942328E-04	-3.4044379E-04	
40	4.3356697E-04	-3.1817409E-04	
41	3.7212808E-04	-2.9628783E-04	
42	3.1501917E-04	-2.7488727E-04	
43	2.6213467E-04	-2.5405991E-04	
44	2.1335211E-04	-2.3387899E-04	
45	1.6853617E-04	-2.1440501E-04	
46	1.2753998E-04	-1.9568629E-04	
47	9.0208786E-05	-1.7776055E-04	
48	5.6381054E-05	-1.6065545E-04	
49	2.5890653E-05	-1.4438963E-04	
50	-1.4313172E-06	-1.2897361E-04	
51	-2.5755547E-05	-1.1441104E-04	
52	-4.7252505E-05	-1.0070006E-04	
53	-6.6091841E-05	-8.7833128E-05	
54	-8.2441192E-05	-7.5797735E-05	
55	-9.6465249E-05	-6.4577052E-05	
56	-1.0832496E-04	-5.4150504E-05	
57	-1.1817681E-04	-4.4494388E-05	
58	-1.2617229E-04	-3.5582509E-05	
59	-1.3245750E-04	-2.7386472E-05	
60	-1.3717260E-04	-1.9876363E-05	
61	-1.4045169E-04	-1.3020948E-05	
62	-1.4242251E-04	-6.7879774E-06	
63	-1.4320624E-04	-1.1448694E-06	
64	-1.4291757E-04	3.9415619E-06	
65	-1.4166451E-04	8.5044615E-06	
66	-1.3954849E-04	1.2576796E-05	
67	-1.3666433E-04	1.6191141E-05	
68	-1.3310043E-04	1.9379495E-05	
69	-1.2893885E-04	2.2173107E-05	
70	-1.2425548E-04	2.4602332E-05	
71	-1.1912052E-04	2.6696404E-05	
72	-1.1359762E-04	2.8483726E-05	
73	-1.0774569E-04	2.9991144E-05	
74	-1.0161811E-04	3.1244297E-05	

75	-9.5263303E-05	3.2267440E-05
76	-8.8724951E-05	3.3083380E-05
77	-8.2042343E-05	3.3713430E-05
78	-7.5250329E-05	3.4182238E-05
79	-6.8378361E-05	3.4517355E-05
80	-6.1450622E-05	3.4743940E-05
81	-5.4486504E-05	3.4884733E-05
82	-4.7501095E-05	3.4960040E-05
83	-4.0505663E-05	3.4987727E-05
84	-3.3508151E-05	3.4983208E-05
85	-2.6513662E-05	3.4959447E-05
86	-1.9524954E-05	3.4926958E-05
87	-1.2542924E-05	3.4893804E-05
88	-5.5671021E-06	3.4865603E-05
89	1.4038591E-06	3.4845526E-05
90	8.3717048E-06	3.4834397E-05
91	1.5338107E-05	3.4830604E-05
92	1.8821501E-05	3.4830390E-05


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|                PARATIE PLUS 2014 NLS ENGINE RELEASE  2016  FULL VERSION  *Build date: Sept23, 2015*                |
|                                                                                                                                            |
|                NewProject.BaseDesignSection_25.Nominal_60                                                                              |
|                Exe Time :29 June 2020    17:22:00                                                                                          |
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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 92
CURRENT TIME I S 2.0000

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 LAYER	MAX-H-P	STATE	STIFFNESS	Z-LEVEL	PORE	E FAC-
1	0.000	--	--	--	--	--	REMOVED	--	2.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
2	0.000	--	--	--	--	--	REMOVED	--	1.800	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
3	0.000	--	--	--	--	--	REMOVED	--	1.600	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
4	0.000	--	--	--	--	--	REMOVED	--	1.400	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
5	0.000	--	--	--	--	--	REMOVED	--	1.200	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
6	0.000	--	--	--	--	--	REMOVED	--	1.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
7	0.000	--	--	--	--	--	REMOVED	--	0.8000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
8	0.000	--	--	--	--	--	REMOVED	--	0.6000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
9 D	0.2442	-3.8226E-03	2.001	1.221	2.001	2.403	ACTIVE	0.000	0.4000	0.000	
1.000	1.000	1.221	0.000	0.000	FRANA_334_8_L_0						
10 D	0.7322	-3.6944E-03	6.002	3.661	6.002	5.545	ACTIVE	0.000	0.2000	0.000	
1.000	1.000	3.661	0.000	0.000	FRANA_334_8_L_0						
11 D	1.220	-3.5662E-03	10.00	6.102	10.00	8.687	ACTIVE	0.000	-1.4901E-07	0.000	
1.000	1.000	6.102	0.000	0.000	FRANA_334_8_L_0						
12 D	1.708	-3.4380E-03	14.00	8.542	14.00	11.83	ACTIVE	0.000	-0.2000	0.000	
1.000	1.000	8.542	0.000	0.000	FRANA_334_8_L_0						
13 D	2.197	-3.3098E-03	18.00	10.98	18.00	14.97	ACTIVE	0.000	-0.4000	0.000	
1.000	1.000	10.98	0.000	0.000	FRANA_334_8_L_0						
14 D	2.685	-3.1817E-03	22.01	13.42	22.01	18.11	ACTIVE	0.000	-0.6000	0.000	
1.000	1.000	13.42	0.000	0.000	FRANA_334_8_L_0						
15 D	3.173	-3.0536E-03	26.01	15.86	26.01	21.25	ACTIVE	0.000	-0.8000	0.000	
1.000	1.000	15.86	0.000	0.000	FRANA_334_8_L_0						
16 D	3.661	-2.9258E-03	30.01	18.31	30.01	24.39	ACTIVE	0.000	-1.000	0.000	
1.000	1.000	18.31	0.000	0.000	FRANA_334_8_L_0						
17 D	4.149	-2.7981E-03	34.01	20.75	34.01	27.53	ACTIVE	0.000	-1.200	0.000	
1.000	1.000	20.75	0.000	0.000	FRANA_334_8_L_0						
18 D	4.638	-2.6707E-03	38.01	23.19	38.01	30.67	ACTIVE	0.000	-1.400	0.000	
1.000	1.000	23.19	0.000	0.000	FRANA_334_8_L_0						
19 D	5.126	-2.5438E-03	42.02	25.63	42.02	33.81	ACTIVE	0.000	-1.600	0.000	
1.000	1.000	25.63	0.000	0.000	FRANA_334_8_L_0						
20 D	5.614	-2.4175E-03	46.02	28.07	46.02	36.94	ACTIVE	0.000	-1.800	0.000	
1.000	1.000	28.07	0.000	0.000	FRANA_334_8_L_0						
21 D	2.066	-2.2919E-03	50.02	13.77	50.02	27.18	ACTIVE	0.000	-2.000	0.000	
1.000	1.000	13.77	0.000	0.000	BNA3(2)_335_337_L_0						
22 D	2.166	-2.2295E-03	52.02	14.44	52.02	28.23	ACTIVE	0.000	-2.100	0.000	
1.000	1.000	14.44	0.000	0.000	BNA3(2)_335_337_L_0						
23 D	3.154	-2.1055E-03	56.03	15.77	56.03	30.34	ACTIVE	0.000	-2.300	0.000	
1.000	1.000	15.77	0.000	0.000	BNA3(2)_335_337_L_0						
24 D	3.421	-1.9828E-03	60.03	17.10	60.03	32.44	ACTIVE	0.000	-2.500	0.000	
1.000	1.000	17.10	0.000	0.000	BNA3(2)_335_337_L_0						
25 D	3.688	-1.8618E-03	64.03	18.44	64.03	34.54	ACTIVE	0.000	-2.700	0.000	
1.000	1.000	18.44	0.000	0.000	BNA3(2)_335_337_L_0						
26 D	3.954	-1.7427E-03	68.04	19.77	68.04	36.65	ACTIVE	0.000	-2.900	0.000	
1.000	1.000	19.77	0.000	0.000	BNA3(2)_335_337_L_0						
27 D	4.221	-1.6258E-03	72.04	21.11	72.04	38.75	ACTIVE	0.000	-3.100	0.000	
1.000	1.000	21.11	0.000	0.000	BNA3(2)_335_337_L_0						
28 D	4.488	-1.5114E-03	76.05	22.44	76.05	40.85	ACTIVE	0.000	-3.300	0.000	
1.000	1.000	22.44	0.000	0.000	BNA3(2)_335_337_L_0						
29 D	4.755	-1.3999E-03	80.05	23.77	80.05	42.95	ACTIVE	0.000	-3.500	0.000	
1.000	1.000	23.77	0.000	0.000	BNA3(2)_335_337_L_0						
30 D	5.021	-1.2916E-03	84.06	25.11	84.06	45.05	ACTIVE	0.000	-3.700	0.000	
1.000	1.000	25.11	0.000	0.000	BNA3(2)_335_337_L_0						
31 D	5.288	-1.1869E-03	88.07	26.44	88.07	47.15	ACTIVE	0.000	-3.900	0.000	
1.000	1.000	26.44	0.000	0.000	BNA3(2)_335_337_L_0						
32 D	5.555	-1.0859E-03	92.07	27.78	92.07	49.24	ACTIVE	0.000	-4.100	0.000	
1.000	1.000	27.78	0.000	0.000	BNA3(2)_335_337_L_0						
33 D	5.822	-9.8899E-04	96.08	29.11	96.08	51.34	ACTIVE	0.000	-4.300	0.000	
1.000	1.000	29.11	0.000	0.000	BNA3(2)_335_337_L_0						

34 D	6.089	-8.9628E-04	100.1	30.44	100.1	53.44	ACTIVE	0.000	-4.500	0.000
1.000	1.000	30.44	0.000	0.000	BNA3(2)_335_337_L_0					
35 D	6.442	-8.0792E-04	104.1	32.21	104.1	55.53	UL-RL	2.8868E+04	-4.700	0.000
1.000	1.000	32.21	0.000	0.000	BNA3(2)_335_337_L_0					
36 D	7.345	-7.2402E-04	108.1	36.72	108.1	57.62	UL-RL	2.8868E+04	-4.900	0.000
1.000	1.000	36.72	0.000	0.000	BNA3(2)_335_337_L_0					
37 D	8.222	-6.4462E-04	112.1	41.11	112.1	59.72	UL-RL	2.8868E+04	-5.100	0.000
1.000	1.000	41.11	0.000	0.000	BNA3(2)_335_337_L_0					
38 D	9.072	-5.6976E-04	116.1	45.36	116.1	61.81	UL-RL	2.8868E+04	-5.300	0.000
1.000	1.000	45.36	0.000	0.000	BNA3(2)_335_337_L_0					
39 D	9.897	-4.9942E-04	120.1	49.48	120.1	63.90	UL-RL	2.8868E+04	-5.500	0.000
1.000	1.000	49.48	0.000	0.000	BNA3(2)_335_337_L_0					
40 D	10.69	-4.3357E-04	124.1	53.47	124.1	65.99	UL-RL	2.8868E+04	-5.700	0.000
1.000	1.000	53.47	0.000	0.000	BNA3(2)_335_337_L_0					
41 D	11.47	-3.7213E-04	128.2	57.34	128.2	68.08	UL-RL	2.8868E+04	-5.900	0.000
1.000	1.000	57.34	0.000	0.000	BNA3(2)_335_337_L_0					
42 D	12.21	-3.1502E-04	132.2	61.07	132.2	70.17	UL-RL	2.8868E+04	-6.100	0.000
1.000	1.000	61.07	0.000	0.000	BNA3(2)_335_337_L_0					
43 D	12.94	-2.6213E-04	136.2	64.69	136.2	72.25	UL-RL	2.8868E+04	-6.300	0.000
1.000	1.000	64.69	0.000	0.000	BNA3(2)_335_337_L_0					
44 D	13.64	-2.1335E-04	140.2	68.18	140.2	74.34	UL-RL	2.8868E+04	-6.500	0.000
1.000	1.000	68.18	0.000	0.000	BNA3(2)_335_337_L_0					
45 D	14.31	-1.6854E-04	144.2	71.56	144.2	76.42	UL-RL	2.8868E+04	-6.700	0.000
1.000	1.000	71.56	0.000	0.000	BNA3(2)_335_337_L_0					
46 D	14.97	-1.2754E-04	148.2	74.83	148.2	78.51	UL-RL	2.8868E+04	-6.900	0.000
1.000	1.000	74.83	0.000	0.000	BNA3(2)_335_337_L_0					
47 D	15.60	-9.0209E-05	152.2	77.99	152.2	80.59	UL-RL	2.8868E+04	-7.100	0.000
1.000	1.000	77.99	0.000	0.000	BNA3(2)_335_337_L_0					
48 D	16.21	-5.6381E-05	156.2	81.04	156.2	82.67	UL-RL	2.8868E+04	-7.300	0.000
1.000	1.000	81.04	0.000	0.000	BNA3(2)_335_337_L_0					
49 D	16.80	-2.5891E-05	160.3	84.00	160.3	84.75	UL-RL	2.8868E+04	-7.500	0.000
1.000	1.000	84.00	0.000	0.000	BNA3(2)_335_337_L_0					
50 D	17.33	1.4313E-06	164.3	86.64	164.3	87.22	UL-RL	2.8868E+04	-7.700	0.000
1.000	1.000	86.64	0.000	0.000	BNA3(2)_335_337_L_0					
51 D	17.84	2.5756E-05	168.3	89.20	168.3	89.65	UL-RL	2.8868E+04	-7.900	0.000
1.000	1.000	89.20	0.000	0.000	BNA3(2)_335_337_L_0					
52 D	18.34	4.7253E-05	172.3	91.72	172.3	92.04	UL-RL	2.8868E+04	-8.100	0.000
1.000	1.000	91.72	0.000	0.000	BNA3(2)_335_337_L_0					
53 D	18.83	6.6092E-05	176.3	94.17	176.3	94.39	UL-RL	2.8868E+04	-8.300	0.000
1.000	1.000	94.17	0.000	0.000	BNA3(2)_335_337_L_0					
54 D	19.32	8.2441E-05	180.3	96.58	180.3	96.69	UL-RL	2.8868E+04	-8.500	0.000
1.000	1.000	96.58	0.000	0.000	BNA3(2)_335_337_L_0					
55 D	19.79	9.6465E-05	184.4	98.94	184.4	98.96	UL-RL	2.8868E+04	-8.700	0.000
1.000	1.000	98.94	0.000	0.000	BNA3(2)_335_337_L_0					
56 D	20.25	1.0832E-04	188.4	101.2	188.4	101.2	UL-RL	2.8868E+04	-8.900	0.000
1.000	1.000	101.2	0.000	0.000	BNA3(2)_335_337_L_0					
57 D	20.70	1.1818E-04	192.4	103.5	192.4	103.5	UL-RL	2.8868E+04	-9.100	0.000
1.000	1.000	103.5	0.000	0.000	BNA3(2)_335_337_L_0					
58 D	21.14	1.2617E-04	196.4	105.7	196.4	105.7	V-C	1.8042E+04	-9.300	0.000
1.000	1.000	105.7	0.000	0.000	BNA3(2)_335_337_L_0					
59 D	21.58	1.3246E-04	200.4	107.9	200.4	107.9	V-C	1.8042E+04	-9.500	0.000
1.000	1.000	107.9	0.000	0.000	BNA3(2)_335_337_L_0					
60 D	22.01	1.3717E-04	204.5	110.0	204.5	110.0	V-C	1.8042E+04	-9.700	0.000
1.000	1.000	110.0	0.000	0.000	BNA3(2)_335_337_L_0					
61 D	22.43	1.4045E-04	208.5	112.2	208.5	112.2	V-C	1.8042E+04	-9.900	0.000
1.000	1.000	112.2	0.000	0.000	BNA3(2)_335_337_L_0					
62 D	22.85	1.4242E-04	212.5	114.3	212.5	114.3	V-C	1.8042E+04	-10.10	0.000
1.000	1.000	114.3	0.000	0.000	BNA3(2)_335_337_L_0					
63 D	23.27	1.4321E-04	216.5	116.3	216.5	116.3	V-C	1.8042E+04	-10.30	0.000
1.000	1.000	116.3	0.000	0.000	BNA3(2)_335_337_L_0					
64 D	23.68	1.4292E-04	220.5	118.4	220.5	118.4	V-C	1.8042E+04	-10.50	0.000
1.000	1.000	118.4	0.000	0.000	BNA3(2)_335_337_L_0					
65 D	24.09	1.4166E-04	224.6	120.4	224.6	120.4	V-C	1.8042E+04	-10.70	0.000
1.000	1.000	120.4	0.000	0.000	BNA3(2)_335_337_L_0					
66 D	24.49	1.3955E-04	228.6	122.5	228.6	122.5	V-C	1.8042E+04	-10.90	0.000
1.000	1.000	122.5	0.000	0.000	BNA3(2)_335_337_L_0					
67 D	24.89	1.3666E-04	232.6	124.5	232.6	124.5	V-C	1.8042E+04	-11.10	0.000
1.000	1.000	124.5	0.000	0.000	BNA3(2)_335_337_L_0					
68 D	25.29	1.3310E-04	236.6	126.5	236.6	126.5	V-C	1.8042E+04	-11.30	0.000
1.000	1.000	126.5	0.000	0.000	BNA3(2)_335_337_L_0					
69 D	25.69	1.2894E-04	240.7	128.4	240.7	128.4	V-C	1.8042E+04	-11.50	0.000
1.000	1.000	128.4	0.000	0.000	BNA3(2)_335_337_L_0					
70 D	26.08	1.2426E-04	244.7	130.4	244.7	130.4	V-C	1.8042E+04	-11.70	0.000
1.000	1.000	130.4	0.000	0.000	BNA3(2)_335_337_L_0					
71 D	26.47	1.1912E-04	248.7	132.4	248.7	132.4	V-C	1.8042E+04	-11.90	0.000
1.000	1.000	132.4	0.000	0.000	BNA3(2)_335_337_L_0					
72 D	26.86	1.1360E-04	252.7	134.3	252.7	134.3	V-C	1.8042E+04	-12.10	0.000
1.000	1.000	134.3	0.000	0.000	BNA3(2)_335_337_L_0					
73 D	27.25	1.0775E-04	256.8	136.3	256.8	136.3	V-C	1.8042E+04	-12.30	0.000
1.000	1.000	136.3	0.000	0.000	BNA3(2)_335_337_L_0					
74 D	27.64	1.0162E-04	260.8	138.2	260.8	138.2	V-C	1.8042E+04	-12.50	0.000
1.000	1.000	138.2	0.000	0.000	BNA3(2)_335_337_L_0					
75 D	28.03	9.5263E-05	264.8	140.1	264.8	140.1	V-C	1.8042E+04	-12.70	0.000
1.000	1.000	140.1	0.000	0.000	BNA3(2)_335_337_L_0					
76 D	28.41	8.8725E-05	268.8	142.1	268.8	142.1	V-C	1.8042E+04	-12.90	0.000
1.000	1.000	142.1	0.000	0.000	BNA3(2)_335_337_L_0					
77 D	33.09	8.2042E-05	272.9	165.5	272.9	165.5	V-C	2.4526E+04	-13.10	0.000
1.000	1.000	165.5	0.000	0.000	BNA3(3)_336_338_L_0					
78 D	33.53	7.5250E-05	276.9	167.7	276.9	167.7	V-C	2.4526E+04	-13.30	0.000
1.000	1.000	167.7	0.000	0.000	BNA3(3)_336_338_L_0					
79 D	33.97	6.8378E-05	280.9	169.8	280.9	169.8	V-C	2.4526E+04	-13.50	0.000
1.000	1.000	169.8	0.000	0.000	BNA3(3)_336_338_L_0					

80 D	34.40	6.1451E-05	285.0	172.0	285.0	172.0	V-C	2.4526E+04	-13.70	0.000
1.000	1.000	172.0	0.000	0.000	BNA3(3)_336_338_L_0					
81 D	34.84	5.4487E-05	289.0	174.2	289.0	174.2	V-C	2.4526E+04	-13.90	0.000
1.000	1.000	174.2	0.000	0.000	BNA3(3)_336_338_L_0					
82 D	35.27	4.7501E-05	293.0	176.4	293.0	176.4	V-C	2.4526E+04	-14.10	0.000
1.000	1.000	176.4	0.000	0.000	BNA3(3)_336_338_L_0					
83 D	35.71	4.0506E-05	297.1	178.6	297.1	178.6	V-C	2.4526E+04	-14.30	0.000
1.000	1.000	178.6	0.000	0.000	BNA3(3)_336_338_L_0					
84 D	36.15	3.3508E-05	301.1	180.7	301.1	180.7	V-C	2.4526E+04	-14.50	0.000
1.000	1.000	180.7	0.000	0.000	BNA3(3)_336_338_L_0					
85 D	36.58	2.6514E-05	305.1	182.9	305.1	182.9	V-C	2.4526E+04	-14.70	0.000
1.000	1.000	182.9	0.000	0.000	BNA3(3)_336_338_L_0					
86 D	37.10	1.9525E-05	308.2	184.5	308.2	184.5	V-C	2.4526E+04	-14.90	0.9999
1.000	1.000	185.5	0.000	0.000	BNA3(3)_336_338_L_0					
87 D	37.70	1.2543E-05	310.2	185.5	310.2	185.5	V-C	2.4526E+04	-15.10	3.000
1.000	1.000	188.5	0.000	0.000	BNA3(3)_336_338_L_0					
88 D	38.31	5.5671E-06	312.2	186.5	312.2	186.5	V-C	2.4526E+04	-15.30	5.000
1.000	1.000	191.5	0.000	0.000	BNA3(3)_336_338_L_0					
89 D	38.90	-1.4039E-06	314.2	187.5	314.2	187.6	UL-RL	3.9242E+04	-15.50	7.000
1.000	1.000	194.5	0.000	0.000	BNA3(3)_336_338_L_0					
90 D	39.49	-8.3717E-06	316.3	188.4	316.3	188.8	UL-RL	3.9242E+04	-15.70	9.000
1.000	1.000	197.4	0.000	0.000	BNA3(3)_336_338_L_0					
91 D	30.05	-1.5338E-05	318.3	189.3	318.3	190.0	UL-RL	3.9242E+04	-15.90	11.00
1.000	1.000	200.3	0.000	0.000	BNA3(3)_336_338_L_0					
92 D	10.09	-1.8822E-05	319.3	189.8	319.3	190.5	UL-RL	3.9242E+04	-16.00	12.00
1.000	1.000	201.8	0.000	0.000	BNA3(3)_336_338_L_0					

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|                PARATIE PLUS 2014 NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Sept23, 2015*                |
|                                                                                                                    |
|                NewProject.BaseDesignSection_25.Nominal_60                                                         |
|                Exe Time :29 June 2020      17:22:00                                                                |
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New Project

STRESS RESULTS FOR GROUP NO. 2

O_R :
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 92
CURRENT TIME IS 2.0000

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 LAYER	MAX-H-P	STATE	STIFFNESS	Z-LEVEL	PORE	E FAC-
1	0.000	--	--	--	--	--	REMOVED	--	2.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
2	0.000	--	--	--	--	--	REMOVED	--	1.800	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
3	0.000	--	--	--	--	--	REMOVED	--	1.600	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
4	0.000	--	--	--	--	--	REMOVED	--	1.400	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
5	0.000	--	--	--	--	--	REMOVED	--	1.200	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
6	0.000	--	--	--	--	--	REMOVED	--	1.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
7	0.000	--	--	--	--	--	REMOVED	--	0.8000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
8	0.000	--	--	--	--	--	REMOVED	--	0.6000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
9	0.000	--	--	--	--	--	REMOVED	--	0.4000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
10	0.000	--	--	--	--	--	REMOVED	--	0.2000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
11	0.000	--	--	--	--	--	REMOVED	--	-1.4901E-07	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
12	0.000	--	--	--	--	--	REMOVED	--	-0.2000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
13	0.000	--	--	--	--	--	REMOVED	--	-0.4000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
14	0.000	--	--	--	--	--	REMOVED	--	-0.6000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
15	0.000	--	--	--	--	--	REMOVED	--	-0.8000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
16	0.000	--	--	--	--	--	REMOVED	--	-1.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
17	0.000	--	--	--	--	--	REMOVED	--	-1.200	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
18	0.000	--	--	--	--	--	REMOVED	--	-1.400	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
19	0.000	--	--	--	--	--	REMOVED	--	-1.600	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
20	0.000	--	--	--	--	--	REMOVED	--	-1.800	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
21	0.000	--	--	--	--	--	REMOVED	--	-2.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
22	0.000	--	--	--	--	--	REMOVED	--	-2.100	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
23	0.000	--	--	--	--	--	REMOVED	--	-2.300	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
24	0.000	--	--	--	--	--	REMOVED	--	-2.500	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
25	0.000	--	--	--	--	--	REMOVED	--	-2.700	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
26	0.000	--	--	--	--	--	REMOVED	--	-2.900	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
27 D	2.071	1.6258E-03	0.000	10.35	72.00	38.75	PASSIVE	0.000	-3.100	0.000	
1.000	1.000	10.35	0.000	0.000	BNA3(2)_335_337_L_0						
28 D	5.501	1.5114E-03	4.000	27.51	76.00	40.85	PASSIVE	0.000	-3.300	0.000	
1.000	1.000	27.51	0.000	0.000	BNA3(2)_335_337_L_0						
29 D	8.932	1.3999E-03	8.000	44.66	80.00	44.66	PASSIVE	0.000	-3.500	0.000	
1.000	1.000	44.66	0.000	0.000	BNA3(2)_335_337_L_0						
30 D	12.12	1.2916E-03	12.00	60.58	84.00	60.58	V-C	1.2028E+04	-3.700	0.000	
1.000	1.000	60.58	0.000	0.000	BNA3(2)_335_337_L_0						
31 D	12.28	1.1869E-03	16.00	61.42	88.00	61.42	V-C	1.2028E+04	-3.900	0.000	
1.000	1.000	61.42	0.000	0.000	BNA3(2)_335_337_L_0						
32 D	12.46	1.0859E-03	20.00	62.31	92.00	62.31	V-C	1.2028E+04	-4.100	0.000	
1.000	1.000	62.31	0.000	0.000	BNA3(2)_335_337_L_0						
33 D	12.65	9.8899E-04	24.00	63.24	96.00	63.24	V-C	1.2028E+04	-4.300	0.000	
1.000	1.000	63.24	0.000	0.000	BNA3(2)_335_337_L_0						

34 D	12.84	8.9628E-04	28.00	64.22	100.0	64.22	V-C	1.2028E+04	-4.500	0.000
1.000	1.000	64.22	0.000	0.000	BNA3(2)_335_337_L_0					
35 D	13.05	8.0792E-04	32.00	65.25	104.0	65.25	V-C	1.2028E+04	-4.700	0.000
1.000	1.000	65.25	0.000	0.000	BNA3(2)_335_337_L_0					
36 D	13.27	7.2402E-04	36.00	66.33	108.0	66.33	V-C	1.2028E+04	-4.900	0.000
1.000	1.000	66.33	0.000	0.000	BNA3(2)_335_337_L_0					
37 D	13.49	6.4462E-04	40.00	67.47	112.0	67.47	V-C	1.2028E+04	-5.100	0.000
1.000	1.000	67.47	0.000	0.000	BNA3(2)_335_337_L_0					
38 D	13.73	5.6976E-04	44.00	68.66	116.0	68.66	V-C	1.2028E+04	-5.300	0.000
1.000	1.000	68.66	0.000	0.000	BNA3(2)_335_337_L_0					
39 D	13.98	4.9942E-04	48.00	69.91	120.0	69.91	V-C	1.2028E+04	-5.500	0.000
1.000	1.000	69.91	0.000	0.000	BNA3(2)_335_337_L_0					
40 D	14.24	4.3357E-04	52.00	71.21	124.0	71.21	V-C	1.2028E+04	-5.700	0.000
1.000	1.000	71.21	0.000	0.000	BNA3(2)_335_337_L_0					
41 D	14.51	3.7213E-04	56.00	72.56	128.0	72.56	V-C	1.2028E+04	-5.900	0.000
1.000	1.000	72.56	0.000	0.000	BNA3(2)_335_337_L_0					
42 D	14.79	3.1502E-04	60.00	73.96	132.0	73.96	V-C	1.2028E+04	-6.100	0.000
1.000	1.000	73.96	0.000	0.000	BNA3(2)_335_337_L_0					
43 D	15.08	2.6213E-04	64.00	75.41	136.0	75.41	V-C	1.2028E+04	-6.300	0.000
1.000	1.000	75.41	0.000	0.000	BNA3(2)_335_337_L_0					
44 D	15.38	2.1335E-04	68.00	76.91	140.0	76.91	V-C	1.2028E+04	-6.500	0.000
1.000	1.000	76.91	0.000	0.000	BNA3(2)_335_337_L_0					
45 D	15.69	1.6854E-04	72.00	78.45	144.0	78.45	V-C	1.2028E+04	-6.700	0.000
1.000	1.000	78.45	0.000	0.000	BNA3(2)_335_337_L_0					
46 D	16.01	1.2754E-04	76.00	80.04	148.0	80.04	V-C	1.2028E+04	-6.900	0.000
1.000	1.000	80.04	0.000	0.000	BNA3(2)_335_337_L_0					
47 D	16.33	9.0209E-05	80.00	81.67	152.0	81.67	V-C	1.2028E+04	-7.100	0.000
1.000	1.000	81.67	0.000	0.000	BNA3(2)_335_337_L_0					
48 D	16.67	5.6381E-05	84.00	83.35	156.0	83.35	V-C	1.2028E+04	-7.300	0.000
1.000	1.000	83.35	0.000	0.000	BNA3(2)_335_337_L_0					
49 D	17.01	2.5891E-05	88.00	85.06	160.0	85.06	V-C	1.2028E+04	-7.500	0.000
1.000	1.000	85.06	0.000	0.000	BNA3(2)_335_337_L_0					
50 D	17.36	-1.4313E-06	92.00	86.80	164.0	86.83	UL-RL	1.9245E+04	-7.700	0.000
1.000	1.000	86.80	0.000	0.000	BNA3(2)_335_337_L_0					
51 D	17.68	-2.5756E-05	96.00	88.41	168.0	88.91	UL-RL	1.9245E+04	-7.900	0.000
1.000	1.000	88.41	0.000	0.000	BNA3(2)_335_337_L_0					
52 D	18.02	-4.7253E-05	100.0	90.08	172.0	90.98	UL-RL	1.9245E+04	-8.100	0.000
1.000	1.000	90.08	0.000	0.000	BNA3(2)_335_337_L_0					
53 D	18.36	-6.6092E-05	104.0	91.79	176.0	93.06	UL-RL	1.9245E+04	-8.300	0.000
1.000	1.000	91.79	0.000	0.000	BNA3(2)_335_337_L_0					
54 D	18.71	-8.2441E-05	108.0	93.55	180.0	95.13	UL-RL	1.9245E+04	-8.500	0.000
1.000	1.000	93.55	0.000	0.000	BNA3(2)_335_337_L_0					
55 D	19.07	-9.6465E-05	112.0	95.35	184.0	97.21	UL-RL	1.9245E+04	-8.700	0.000
1.000	1.000	95.35	0.000	0.000	BNA3(2)_335_337_L_0					
56 D	19.44	-1.0832E-04	116.0	97.19	188.0	99.28	UL-RL	1.9245E+04	-8.900	0.000
1.000	1.000	97.19	0.000	0.000	BNA3(2)_335_337_L_0					
57 D	19.82	-1.1818E-04	120.0	99.08	192.0	101.4	UL-RL	1.9245E+04	-9.100	0.000
1.000	1.000	99.08	0.000	0.000	BNA3(2)_335_337_L_0					
58 D	20.20	-1.2617E-04	124.0	101.0	196.0	103.4	UL-RL	1.9245E+04	-9.300	0.000
1.000	1.000	101.0	0.000	0.000	BNA3(2)_335_337_L_0					
59 D	20.59	-1.3246E-04	128.0	102.9	200.0	105.5	UL-RL	1.9245E+04	-9.500	0.000
1.000	1.000	102.9	0.000	0.000	BNA3(2)_335_337_L_0					
60 D	20.98	-1.3717E-04	132.0	104.9	204.0	107.6	UL-RL	1.9245E+04	-9.700	0.000
1.000	1.000	104.9	0.000	0.000	BNA3(2)_335_337_L_0					
61 D	21.38	-1.4045E-04	136.0	106.9	208.0	109.6	UL-RL	1.9245E+04	-9.900	0.000
1.000	1.000	106.9	0.000	0.000	BNA3(2)_335_337_L_0					
62 D	21.79	-1.4242E-04	140.0	108.9	212.0	111.7	UL-RL	1.9245E+04	-10.10	0.000
1.000	1.000	108.9	0.000	0.000	BNA3(2)_335_337_L_0					
63 D	22.20	-1.4321E-04	144.0	111.0	216.0	113.7	UL-RL	1.9245E+04	-10.30	0.000
1.000	1.000	111.0	0.000	0.000	BNA3(2)_335_337_L_0					
64 D	22.61	-1.4292E-04	148.0	113.1	220.0	115.8	UL-RL	1.9245E+04	-10.50	0.000
1.000	1.000	113.1	0.000	0.000	BNA3(2)_335_337_L_0					
65 D	23.03	-1.4166E-04	152.0	115.1	224.0	117.9	UL-RL	1.9245E+04	-10.70	0.000
1.000	1.000	115.1	0.000	0.000	BNA3(2)_335_337_L_0					
66 D	23.45	-1.3955E-04	156.0	117.2	228.0	119.9	UL-RL	1.9245E+04	-10.90	0.000
1.000	1.000	117.2	0.000	0.000	BNA3(2)_335_337_L_0					
67 D	23.87	-1.3666E-04	160.0	119.4	232.0	122.0	UL-RL	1.9245E+04	-11.10	0.000
1.000	1.000	119.4	0.000	0.000	BNA3(2)_335_337_L_0					
68 D	24.30	-1.3310E-04	164.0	121.5	236.0	124.0	UL-RL	1.9245E+04	-11.30	0.000
1.000	1.000	121.5	0.000	0.000	BNA3(2)_335_337_L_0					
69 D	24.72	-1.2894E-04	168.0	123.6	240.0	126.1	UL-RL	1.9245E+04	-11.50	0.000
1.000	1.000	123.6	0.000	0.000	BNA3(2)_335_337_L_0					
70 D	25.15	-1.2426E-04	172.0	125.8	244.0	128.2	UL-RL	1.9245E+04	-11.70	0.000
1.000	1.000	125.8	0.000	0.000	BNA3(2)_335_337_L_0					
71 D	25.58	-1.1912E-04	176.0	127.9	248.0	130.2	UL-RL	1.9245E+04	-11.90	0.000
1.000	1.000	127.9	0.000	0.000	BNA3(2)_335_337_L_0					
72 D	26.02	-1.1360E-04	180.0	130.1	252.0	132.3	UL-RL	1.9245E+04	-12.10	0.000
1.000	1.000	130.1	0.000	0.000	BNA3(2)_335_337_L_0					
73 D	26.45	-1.0775E-04	184.0	132.2	256.0	134.3	UL-RL	1.9245E+04	-12.30	0.000
1.000	1.000	132.2	0.000	0.000	BNA3(2)_335_337_L_0					
74 D	26.88	-1.0162E-04	188.0	134.4	260.0	136.4	UL-RL	1.9245E+04	-12.50	0.000
1.000	1.000	134.4	0.000	0.000	BNA3(2)_335_337_L_0					
75 D	27.32	-9.5263E-05	192.0	136.6	264.0	138.4	UL-RL	1.9245E+04	-12.70	0.000
1.000	1.000	136.6	0.000	0.000	BNA3(2)_335_337_L_0					
76 D	27.75	-8.8725E-05	196.0	138.8	268.0	140.5	UL-RL	1.9245E+04	-12.90	0.000
1.000	1.000	138.8	0.000	0.000	BNA3(2)_335_337_L_0					
77 D	32.17	-8.2042E-05	200.0	160.8	272.0	163.5	UL-RL	3.1854E+04	-13.10	0.000
1.000	1.000	160.8	0.000	0.000	BNA3(3)_336_338_L_0					
78 D	32.68	-7.5250E-05	204.0	163.4	276.0	165.8	UL-RL	3.1854E+04	-13.30	0.000
1.000	1.000	163.4	0.000	0.000	BNA3(3)_336_338_L_0					
79 D	33.20	-6.8378E-05	208.0	166.0	280.0	168.2	UL-RL	3.1854E+04	-13.50	0.000
1.000	1.000	166.0	0.000	0.000	BNA3(3)_336_338_L_0					

80 D	33.71	-6.1451E-05	212.0	168.6	284.0	170.5	UL-RL	3.1854E+04	-13.70	0.000
1.000	1.000	168.6	0.000	0.000	BNA3(3)_336_338_L_0					
81 D	34.23	-5.4487E-05	216.0	171.1	288.0	172.9	UL-RL	3.1854E+04	-13.90	0.000
1.000	1.000	171.1	0.000	0.000	BNA3(3)_336_338_L_0					
82 D	34.74	-4.7501E-05	220.0	173.7	292.0	175.2	UL-RL	3.1854E+04	-14.10	0.000
1.000	1.000	173.7	0.000	0.000	BNA3(3)_336_338_L_0					
83 D	35.25	-4.0506E-05	224.0	176.3	296.0	177.6	UL-RL	3.1854E+04	-14.30	0.000
1.000	1.000	176.3	0.000	0.000	BNA3(3)_336_338_L_0					
84 D	35.77	-3.3508E-05	228.0	178.8	300.0	179.9	UL-RL	3.1854E+04	-14.50	0.000
1.000	1.000	178.8	0.000	0.000	BNA3(3)_336_338_L_0					
85 D	36.28	-2.6514E-05	232.0	181.4	304.0	182.2	UL-RL	3.1854E+04	-14.70	0.000
1.000	1.000	181.4	0.000	0.000	BNA3(3)_336_338_L_0					
86 D	36.88	-1.9525E-05	235.0	183.4	307.0	184.0	UL-RL	3.1854E+04	-14.90	0.9999
1.000	1.000	184.4	0.000	0.000	BNA3(3)_336_338_L_0					
87 D	37.56	-1.2543E-05	237.0	184.8	309.0	185.2	UL-RL	3.1854E+04	-15.10	3.000
1.000	1.000	187.8	0.000	0.000	BNA3(3)_336_338_L_0					
88 D	38.24	-5.5671E-06	239.0	186.2	311.0	186.4	UL-RL	3.1854E+04	-15.30	5.000
1.000	1.000	191.2	0.000	0.000	BNA3(3)_336_338_L_0					
89 D	38.91	1.4039E-06	241.0	187.6	313.0	187.7	UL-RL	3.1854E+04	-15.50	7.000
1.000	1.000	194.6	0.000	0.000	BNA3(3)_336_338_L_0					
90 D	39.58	8.3717E-06	243.0	188.9	315.0	189.0	UL-RL	3.1854E+04	-15.70	9.000
1.000	1.000	197.9	0.000	0.000	BNA3(3)_336_338_L_0					
91 D	30.19	1.5338E-05	245.0	190.2	317.0	190.3	UL-RL	3.1854E+04	-15.90	11.00
1.000	1.000	201.2	0.000	0.000	BNA3(3)_336_338_L_0					
92 D	10.15	1.8822E-05	246.0	190.9	318.0	190.9	UL-RL	3.1854E+04	-16.00	12.00
1.000	1.000	202.9	0.000	0.000	BNA3(3)_336_338_L_0					

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|                PARATIE PLUS 2014 NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Sept23, 2015*                |
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|                                                                                                                                            |
|                NewProject.BaseDesignSection_25.Nominal_60                                                                              |
|                Exe Time :29 June 2020    17:22:00                                                                                          |
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New Project

STRESS RESULTS FOR GROUP NO. 3

WallElement_30 :
ELEMENT TYPE 2 NO.OF ELEMENTS. IN THIS GROUP 91
CURRENT TIME IS 2.0000

WALL2D ELEMENT

EL	TA	TB	MA	MB
1	7.52095E-10	-7.52095E-10	7.51719E-11	4.57518E-11
2	5.59339E-11	-5.59339E-11	3.58540E-11	-3.32534E-12
3	-1.36663E-09	1.36663E-09	-1.29120E-10	1.02375E-10
4	1.33076E-09	-1.33076E-09	1.04528E-10	1.79753E-10
5	1.04023E-11	-1.04023E-11	4.34852E-11	-1.51203E-11
6	-1.41370E-09	1.41370E-09	-1.22981E-10	-1.96849E-10
7	-1.25624E-11	1.25624E-11	5.56035E-11	-5.38662E-11
8	6.76152E-10	-6.76152E-10	1.21858E-10	-4.91411E-11
9	0.24417	-0.24417	1.30406E-10	4.88338E-02
10	0.97641	-0.97641	-4.88338E-02	0.24412
11	2.1967	-2.1967	-0.24412	0.68346
12	3.9052	-3.9052	-0.68346	1.4645
13	6.1017	-6.1017	-1.4645	2.6848
14	8.7865	-8.7865	-2.6848	4.4421
15	11.959	-11.959	-4.4421	6.8340
16	15.620	-15.620	-6.8340	9.9581
17	19.770	-19.770	-9.9581	13.912
18	24.407	-24.407	-13.912	18.794
19	29.533	-29.533	-18.794	24.700
20	35.148	-35.148	-24.700	31.730
21	37.213	-37.213	-31.730	35.451
22	39.379	-39.379	-35.451	43.327
23	42.533	-42.533	-43.327	51.834
24	45.954	-45.954	-51.834	61.024
25	49.642	-49.642	-61.024	70.953
26	53.596	-53.596	-70.953	81.672
27	55.746	-55.746	-81.672	92.821
28	54.733	-54.733	-92.821	103.77
29	50.556	-50.556	-103.77	113.88
30	43.461	-43.461	-113.88	122.57
31	36.464	-36.464	-122.57	129.86
32	29.558	-29.558	-129.86	135.78
33	22.733	-22.733	-135.78	140.32
34	15.979	-15.979	-140.32	143.52
35	9.3704	-9.3704	-143.52	145.39
36	3.4486	-3.4486	-145.39	146.08
37	-1.8239	1.8239	-146.08	145.72
38	-6.4840	6.4840	-145.72	144.42
39	-10.569	10.569	-144.42	142.31
40	-14.115	14.115	-142.31	139.48
41	-17.159	17.159	-139.48	136.05
42	-19.735	19.735	-136.05	132.10
43	-21.879	21.879	-132.10	127.73
44	-23.624	23.624	-127.73	123.00
45	-25.003	25.003	-123.00	118.00
46	-26.046	26.046	-118.00	112.79
47	-26.784	26.784	-112.79	107.44
48	-27.245	27.245	-107.44	101.99
49	-27.457	27.457	-101.99	96.497
50	-27.490	27.490	-96.497	90.999
51	-27.332	27.332	-90.999	85.533
52	-27.004	27.004	-85.533	80.132
53	-26.527	26.527	-80.132	74.826
54	-25.921	25.921	-74.826	69.642
55	-25.203	25.203	-69.642	64.602
56	-24.395	24.395	-64.602	59.723
57	-23.513	23.513	-59.723	55.020
58	-22.573	22.573	-55.020	50.506
59	-21.585	21.585	-50.506	46.189
60	-20.562	20.562	-46.189	42.076
61	-19.514	19.514	-42.076	38.173
62	-18.452	18.452	-38.173	34.483
63	-17.384	17.384	-34.483	31.006
64	-16.319	16.319	-31.006	27.742
65	-15.262	15.262	-27.742	24.690
66	-14.221	14.221	-24.690	21.846
67	-13.202	13.202	-21.846	19.205
68	-12.210	12.210	-19.205	16.763
69	-11.248	11.248	-16.763	14.514
70	-10.321	10.321	-14.514	12.449

71	-9.4331	9.4331	-12.449	10.563
72	-8.5860	8.5860	-10.563	8.8456
73	-7.7825	7.7825	-8.8456	7.2891
74	-7.0247	7.0247	-7.2891	5.8841
75	-6.3143	6.3143	-5.8841	4.6213
76	-5.6526	5.6526	-4.6213	3.4907
77	-4.7275	4.7275	-3.4907	2.5453
78	-3.8790	3.8790	-2.5453	1.7695
79	-3.1079	3.1079	-1.7695	1.1479
80	-2.4150	2.4150	-1.1479	0.66486
81	-1.8006	1.8006	-0.66486	0.30474
82	-1.2650	1.2650	-0.30474	5.17350E-02
83	-0.80827	0.80827	-5.17350E-02	-0.10992
84	-0.43044	0.43044	0.10992	-0.19601
85	-0.13147	0.13147	0.19601	-0.22230
86	8.86938E-02	-8.86938E-02	0.22230	-0.20456
87	0.23013	-0.23013	0.20456	-0.15854
88	0.29290	-0.29290	0.15854	-9.99560E-02
89	0.28316	-0.28316	9.99560E-02	-4.33243E-02
90	0.18903	-0.18903	4.33243E-02	-5.51737E-03
91	5.51682E-02	-5.51682E-02	5.51737E-03	4.54747E-13


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|          PARATIE PLUS 2014 NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Sept23, 2015*          |
|                                                                                                                                            |
|                                                                 NewProject.BaseDesignSection_25.Nominal_60                               |
|                                                                 Exe Time :29 June 2020    17:22:00                                   |
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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 . 4

Tieback_341 :
ELEMENT TYPE 6 NO.OF ELEMENTS. IN THIS GROUP 1
C U R R E N T T I M E I S 2.0000

POST-TENSION 2D-BOUNDARY ELEMENT

EL	FORCE	d0	EDISPL	pl. eps	K	-ve limit	+ve limit
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***** NO ONE ELEMENT ACTIVE AT CURRENT STEP *****

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|                PARATIE PLUS 2014 NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Sept23, 2015*                |
|                                                                                                                                            |
|                NewProject.BaseDesignSection_25.Nominal_60                                                                              |
|                Exe Time :29 June 2020      17:22:00                                                                              |
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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 . 5

Tieback_342 :
ELEMENT TYPE 6 NO.OF ELEMENTS. IN THIS GROUP 1
C U R R E N T T I M E I S 2.0000

POST-TENSION 2D-BOUNDARY ELEMENT

EL	FORCE	d0	EDISPL	pl. eps	K	-ve limit	+ve limit
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***** NO ONE ELEMENT ACTIVE AT CURRENT STEP *****

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ITER    0  RNORM = 0.000    RMNORM= 0.000
         RINORM=0.1748E+06 RIMNOR=0.9053E+06
         RENORM=0.1219E+05 REMNOR=0.1266E-18 RATIO =0.2641    TOLER =0.1000E-03 NOT CONVERGED
         RFMAX = 110.4    RMMAX = 146.1
         RTSMAL=0.1000E-02 RMSMAL=0.1000E-02
         RDT =0.1748E+06 RDR =0.9053E+06
         RATIOT=0.2641    RATIO= 0.000
         MAX UN=0.1424E-08 IEQ= 11 NODE        6 DOF    1 Y-DISPL.F
         MIN UN=-110.4    IEQ= 43 NODE        22 DOF    1 Y-DISPL.F
         NO. OF CONTACT CONSTRAINT VIOLATIONS            0

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ITER    2  RNORM = 0.000    RMNORM= 0.000
         RINORM=0.1748E+06 RIMNOR=0.9053E+06
         RENORM= 12.40    REMNOR=0.9705E-19 RATIO =0.8423E-02 TOLER =0.1000E-03 NOT CONVERGED
         RFMAX = 110.4    RMMAX = 146.1
         RTSMAL=0.1000E-02 RMSMAL=0.1000E-02
         RDT =0.1748E+06 RDR =0.9053E+06
         RATIOT=0.8423E-02 RATIO= 0.000
         MAX UN=0.5326E-02 IEQ= 99 NODE        50 DOF    1 Y-DISPL.F
         MIN UN=-1.783    IEQ= 17 NODE        9 DOF    1 Y-DISPL.F
         NO. OF CONTACT CONSTRAINT VIOLATIONS            0

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ITER    3  RNORM = 0.000    RMNORM= 0.000
         RINORM=0.1748E+06 RIMNOR=0.9053E+06
         RENORM=0.2090E-01 REMNOR=0.1502E-19 RATIO =0.3458E-03 TOLER =0.1000E-03 NOT CONVERGED
         RFMAX = 110.4    RMMAX = 146.1
         RTSMAL=0.1000E-02 RMSMAL=0.1000E-02
         RDT =0.1748E+06 RDR =0.9053E+06
         RATIOT=0.3458E-03 RATIO= 0.000
         MAX UN=0.5736E-09 IEQ= 29 NODE        15 DOF    1 Y-DISPL.F
         MIN UN=-.1087    IEQ= 59 NODE        30 DOF    1 Y-DISPL.F
         NO. OF CONTACT CONSTRAINT VIOLATIONS            0

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ITER    4  RNORM = 0.000    RMNORM= 0.000
         RINORM=0.1748E+06 RIMNOR=0.9053E+06
         RENORM=0.9071E-08 REMNOR=0.1141E-19 RATIO =0.2278E-06 TOLER =0.1000E-03    CONVERGED !
         RFMAX = 110.4    RMMAX = 146.1
         RTSMAL=0.1000E-02 RMSMAL=0.1000E-02
         RDT =0.1748E+06 RDR =0.9053E+06
         RATIOT=0.2278E-06 RATIO= 0.000
         MAX UN=0.9524E-04 IEQ= 99 NODE        50 DOF    1 Y-DISPL.F
         MIN UN=-.1051E-08 IEQ= 3 NODE        2 DOF    1 Y-DISPL.F
         NO. OF CONTACT CONSTRAINT VIOLATIONS            0

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|                PARATIE PLUS 2014 NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Sept23, 2015*                |
|                                                                                                                                            |
|                                                                                                                                            |
|                NewProject.BaseDesignSection_25.Nominal_60                                                                              |
|                Exe Time :29 June 2020      17:22:00                                                                              |
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New Project
SOLUTION REACHED USING 4 ITERATIONS ON 40

PRINT OUT FOR TIME STEP 3 (AT TIME 3.000)

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

	Y-DISPL.F (02)	X-ROT. F (04)	(
1	2.1410899E-03	-3.0068466E-04	
2	2.0809530E-03	-3.0068466E-04	
3	2.0208161E-03	-3.0068466E-04	
4	1.9606791E-03	-3.0068466E-04	
5	1.9005422E-03	-3.0068466E-04	
6	1.8404052E-03	-3.0068466E-04	
7	1.7802683E-03	-3.0068466E-04	
8	1.7201313E-03	-3.0068466E-04	
9	1.6599944E-03	-3.0068466E-04	
10	1.5998583E-03	-3.0067316E-04	
11	1.5397290E-03	-3.0060415E-04	
12	1.4796259E-03	-3.0039600E-04	
13	1.4195866E-03	-2.9994685E-04	
14	1.3596710E-03	-2.9913974E-04	
15	1.2999634E-03	-2.9784263E-04	
16	1.2405765E-03	-2.9590834E-04	
17	1.1816534E-03	-2.9317463E-04	
18	1.1233717E-03	-2.8946415E-04	
19	1.0659457E-03	-2.8458447E-04	
20	1.0096297E-03	-2.7832811E-04	
21	9.5472110E-04	-2.7047250E-04	
22	9.2789964E-04	-2.6587683E-04	
23	8.7564745E-04	-2.5686425E-04	
24	8.2507529E-04	-2.4903146E-04	
25	7.7597426E-04	-2.4210764E-04	
26	7.2818982E-04	-2.3581999E-04	
27	6.8162218E-04	-2.2989364E-04	
28	6.3622674E-04	-2.2405160E-04	
29	5.9201233E-04	-2.1804773E-04	
30	5.4902898E-04	-2.1172390E-04	
31	5.0734744E-04	-2.0503005E-04	
32	4.6704109E-04	-1.9797424E-04	
33	4.2818041E-04	-1.9057835E-04	
34	3.9082996E-04	-1.8287935E-04	
35	3.5504544E-04	-1.7492882E-04	
36	3.2087091E-04	-1.6679108E-04	
37	2.8833720E-04	-1.5853286E-04	
38	2.5746195E-04	-1.5021444E-04	
39	2.2825181E-04	-1.4189023E-04	
40	2.0070300E-04	-1.3360885E-04	
41	1.7480253E-04	-1.2541351E-04	
42	1.5052921E-04	-1.1734221E-04	
43	1.2785504E-04	-1.0942828E-04	
44	1.0674550E-04	-1.0170033E-04	
45	8.7160971E-05	-9.4182815E-05	
46	6.9057083E-05	-8.6896076E-05	
47	5.2386039E-05	-7.9856863E-05	
48	3.7096952E-05	-7.3078447E-05	
49	2.3136601E-05	-6.6570918E-05	
50	1.0450108E-05	-6.0341464E-05	
51	-1.0187833E-06	-5.4394962E-05	
52	-1.1326962E-05	-4.8734745E-05	
53	-2.0531868E-05	-4.3362329E-05	
54	-2.8691058E-05	-3.8277390E-05	
55	-3.5861857E-05	-3.3477943E-05	
56	-4.2101036E-05	-2.8960505E-05	
57	-4.7464543E-05	-2.4720337E-05	
58	-5.2007251E-05	-2.0751693E-05	
59	-5.5782853E-05	-1.7047883E-05	
60	-5.8843567E-05	-1.3601514E-05	
61	-6.1240084E-05	-1.0404521E-05	
62	-6.3021448E-05	-7.4482490E-06	
63	-6.4234861E-05	-4.7237261E-06	
64	-6.4925758E-05	-2.2214910E-06	
65	-6.5137631E-05	6.8139642E-08	
66	-6.4912018E-05	2.1550359E-06	
67	-6.4288467E-05	4.0491792E-06	
68	-6.3304528E-05	5.7605920E-06	
69	-6.1995746E-05	7.2992735E-06	
70	-6.0395673E-05	8.6751399E-06	
71	-5.8535991E-05	9.8979129E-06	
72	-5.6446157E-05	1.0977307E-05	
73	-5.4154007E-05	1.1922617E-05	
74	-5.1685444E-05	1.2742930E-05	

75	-4.9064583E-05	1.3447026E-05
76	-4.6313819E-05	1.4043344E-05
77	-4.3453893E-05	1.4539950E-05
78	-4.0503834E-05	1.4946632E-05
79	-3.7480478E-05	1.5274742E-05
80	-3.4398464E-05	1.5534939E-05
81	-3.1270368E-05	1.5737164E-05
82	-2.8106850E-05	1.5890620E-05
83	-2.4916807E-05	1.6003761E-05
84	-2.1707521E-05	1.6084274E-05
85	-1.8484812E-05	1.6139073E-05
86	-1.5253197E-05	1.6174293E-05
87	-1.2016044E-05	1.6195280E-05
88	-8.7757300E-06	1.6206592E-05
89	-5.5338110E-06	1.6211845E-05
90	-2.2912182E-06	1.6213706E-05
91	9.5157288E-07	1.6214090E-05
92	2.5731447E-06	1.6214100E-05

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|                PARATIE PLUS 2014 NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Sept23, 2015*                |
|                                                                                                                    |
|                NewProject.BaseDesignSection_25.Nominal_60                                                         |
|                Exe Time :29 June 2020      17:22:00                                                                |
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New Project

STRESS RESULTS FOR GROUP NO. 1

0_L :
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 92
CURRENT TIME IS 3.0000

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 LAYER	MAX-H-P	STATE	STIFFNESS	Z-LEVEL	PORE	E FAC-
1	0.000	--	--	--	--	--	REMOVED	--	2.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
2	0.000	--	--	--	--	--	REMOVED	--	1.800	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
3	0.000	--	--	--	--	--	REMOVED	--	1.600	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
4	0.000	--	--	--	--	--	REMOVED	--	1.400	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
5	0.000	--	--	--	--	--	REMOVED	--	1.200	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
6	0.000	--	--	--	--	--	REMOVED	--	1.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
7	0.000	--	--	--	--	--	REMOVED	--	0.8000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
8	0.000	--	--	--	--	--	REMOVED	--	0.6000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
9 D	0.7405	-1.6600E-03	2.001	3.703	2.001	3.703	PASSIVE	0.000	0.4000	0.000	
1.000	1.000	3.703	0.000	0.000	FRANA_334_8_L_0						
10 D	2.221	-1.5999E-03	6.002	11.10	6.002	11.10	PASSIVE	0.000	0.2000	0.000	
1.000	1.000	11.10	0.000	0.000	FRANA_334_8_L_0						
11 D	3.035	-1.5397E-03	10.00	15.18	10.00	15.18	V-C	4000.	-1.4901E-07	0.000	
1.000	1.000	15.18	0.000	0.000	FRANA_334_8_L_0						
12 D	3.521	-1.4796E-03	14.00	17.61	14.00	17.61	V-C	4000.	-0.2000	0.000	
1.000	1.000	17.61	0.000	0.000	FRANA_334_8_L_0						
13 D	4.008	-1.4196E-03	18.00	20.04	18.00	20.04	V-C	4000.	-0.4000	0.000	
1.000	1.000	20.04	0.000	0.000	FRANA_334_8_L_0						
14 D	4.494	-1.3597E-03	22.01	22.47	22.01	22.47	V-C	4000.	-0.6000	0.000	
1.000	1.000	22.47	0.000	0.000	FRANA_334_8_L_0						
15 D	4.980	-1.3000E-03	26.01	24.90	26.01	24.90	V-C	4000.	-0.8000	0.000	
1.000	1.000	24.90	0.000	0.000	FRANA_334_8_L_0						
16 D	5.466	-1.2406E-03	30.01	27.33	30.01	27.33	V-C	4000.	-1.000	0.000	
1.000	1.000	27.33	0.000	0.000	FRANA_334_8_L_0						
17 D	5.951	-1.1817E-03	34.01	29.76	34.01	29.76	V-C	4000.	-1.200	0.000	
1.000	1.000	29.76	0.000	0.000	FRANA_334_8_L_0						
18 D	6.436	-1.1234E-03	38.01	32.18	38.01	32.18	V-C	4000.	-1.400	0.000	
1.000	1.000	32.18	0.000	0.000	FRANA_334_8_L_0						
19 D	6.921	-1.0659E-03	42.02	34.61	42.02	34.61	V-C	4000.	-1.600	0.000	
1.000	1.000	34.61	0.000	0.000	FRANA_334_8_L_0						
20 D	7.406	-1.0096E-03	46.02	37.03	46.02	37.03	V-C	4000.	-1.800	0.000	
1.000	1.000	37.03	0.000	0.000	FRANA_334_8_L_0						
21 D	6.439	-9.5472E-04	50.02	42.93	50.02	42.93	V-C	1.8042E+04	-2.000	0.000	
1.000	1.000	42.93	0.000	0.000	BNA3(2)_335_337_L_0						
22 D	6.464	-9.2790E-04	52.02	43.09	52.02	43.09	V-C	1.8042E+04	-2.100	0.000	
1.000	1.000	43.09	0.000	0.000	BNA3(2)_335_337_L_0						
23 D	8.685	-8.7565E-04	56.03	43.42	56.03	43.42	V-C	1.8042E+04	-2.300	0.000	
1.000	1.000	43.42	0.000	0.000	BNA3(2)_335_337_L_0						
24 D	8.749	-8.2508E-04	60.03	43.74	60.03	43.74	V-C	1.8042E+04	-2.500	0.000	
1.000	1.000	43.74	0.000	0.000	BNA3(2)_335_337_L_0						
25 D	8.814	-7.7597E-04	64.03	44.07	64.03	44.07	V-C	1.8042E+04	-2.700	0.000	
1.000	1.000	44.07	0.000	0.000	BNA3(2)_335_337_L_0						
26 D	8.881	-7.2819E-04	68.04	44.40	68.04	44.40	V-C	1.8042E+04	-2.900	0.000	
1.000	1.000	44.40	0.000	0.000	BNA3(2)_335_337_L_0						
27 D	8.951	-6.8162E-04	72.04	44.76	72.04	44.76	V-C	1.8042E+04	-3.100	0.000	
1.000	1.000	44.76	0.000	0.000	BNA3(2)_335_337_L_0						
28 D	9.026	-6.3623E-04	76.05	45.13	76.05	45.13	V-C	1.8042E+04	-3.300	0.000	
1.000	1.000	45.13	0.000	0.000	BNA3(2)_335_337_L_0						
29 D	9.108	-5.9201E-04	80.05	45.54	80.05	45.54	V-C	1.8042E+04	-3.500	0.000	
1.000	1.000	45.54	0.000	0.000	BNA3(2)_335_337_L_0						
30 D	9.196	-5.4903E-04	84.06	45.98	84.06	45.98	V-C	1.8042E+04	-3.700	0.000	
1.000	1.000	45.98	0.000	0.000	BNA3(2)_335_337_L_0						
31 D	9.211	-5.0735E-04	88.07	46.06	88.07	47.15	UL-RL	2.8868E+04	-3.900	0.000	
1.000	1.000	46.06	0.000	0.000	BNA3(2)_335_337_L_0						
32 D	9.128	-4.6704E-04	92.07	45.64	92.07	49.24	UL-RL	2.8868E+04	-4.100	0.000	
1.000	1.000	45.64	0.000	0.000	BNA3(2)_335_337_L_0						
33 D	9.060	-4.2818E-04	96.08	45.30	96.08	51.34	UL-RL	2.8868E+04	-4.300	0.000	
1.000	1.000	45.30	0.000	0.000	BNA3(2)_335_337_L_0						

34 D	9.007	-3.9083E-04	100.1	45.04	100.1	53.44	UL-RL	2.8868E+04	-4.500	0.000
1.000	1.000	45.04	0.000	0.000	BNA3(2)_335_337_L_0					
35 D	9.056	-3.5505E-04	104.1	45.28	104.1	55.53	UL-RL	2.8868E+04	-4.700	0.000
1.000	1.000	45.28	0.000	0.000	BNA3(2)_335_337_L_0					
36 D	9.672	-3.2087E-04	108.1	48.36	108.1	57.62	UL-RL	2.8868E+04	-4.900	0.000
1.000	1.000	48.36	0.000	0.000	BNA3(2)_335_337_L_0					
37 D	10.28	-2.8834E-04	112.1	51.39	112.1	59.72	UL-RL	2.8868E+04	-5.100	0.000
1.000	1.000	51.39	0.000	0.000	BNA3(2)_335_337_L_0					
38 D	10.88	-2.5746E-04	116.1	54.38	116.1	61.81	UL-RL	2.8868E+04	-5.300	0.000
1.000	1.000	54.38	0.000	0.000	BNA3(2)_335_337_L_0					
39 D	11.46	-2.2825E-04	120.1	57.31	120.1	63.90	UL-RL	2.8868E+04	-5.500	0.000
1.000	1.000	57.31	0.000	0.000	BNA3(2)_335_337_L_0					
40 D	12.04	-2.0070E-04	124.1	60.20	124.1	65.99	UL-RL	2.8868E+04	-5.700	0.000
1.000	1.000	60.20	0.000	0.000	BNA3(2)_335_337_L_0					
41 D	12.61	-1.7480E-04	128.2	63.03	128.2	68.08	UL-RL	2.8868E+04	-5.900	0.000
1.000	1.000	63.03	0.000	0.000	BNA3(2)_335_337_L_0					
42 D	13.16	-1.5053E-04	132.2	65.82	132.2	70.17	UL-RL	2.8868E+04	-6.100	0.000
1.000	1.000	65.82	0.000	0.000	BNA3(2)_335_337_L_0					
43 D	13.71	-1.2786E-04	136.2	68.56	136.2	72.25	UL-RL	2.8868E+04	-6.300	0.000
1.000	1.000	68.56	0.000	0.000	BNA3(2)_335_337_L_0					
44 D	14.25	-1.0675E-04	140.2	71.26	140.2	74.34	UL-RL	2.8868E+04	-6.500	0.000
1.000	1.000	71.26	0.000	0.000	BNA3(2)_335_337_L_0					
45 D	14.78	-8.7161E-05	144.2	73.91	144.2	76.42	UL-RL	2.8868E+04	-6.700	0.000
1.000	1.000	73.91	0.000	0.000	BNA3(2)_335_337_L_0					
46 D	15.30	-6.9057E-05	148.2	76.51	148.2	78.51	UL-RL	2.8868E+04	-6.900	0.000
1.000	1.000	76.51	0.000	0.000	BNA3(2)_335_337_L_0					
47 D	15.82	-5.2386E-05	152.2	79.08	152.2	80.59	UL-RL	2.8868E+04	-7.100	0.000
1.000	1.000	79.08	0.000	0.000	BNA3(2)_335_337_L_0					
48 D	16.32	-3.7097E-05	156.2	81.60	156.2	82.67	UL-RL	2.8868E+04	-7.300	0.000
1.000	1.000	81.60	0.000	0.000	BNA3(2)_335_337_L_0					
49 D	16.82	-2.3137E-05	160.3	84.08	160.3	84.75	UL-RL	2.8868E+04	-7.500	0.000
1.000	1.000	84.08	0.000	0.000	BNA3(2)_335_337_L_0					
50 D	17.26	-1.0450E-05	164.3	86.29	164.3	87.22	UL-RL	2.8868E+04	-7.700	0.000
1.000	1.000	86.29	0.000	0.000	BNA3(2)_335_337_L_0					
51 D	17.70	1.0188E-06	168.3	88.49	168.3	89.65	UL-RL	2.8868E+04	-7.900	0.000
1.000	1.000	88.49	0.000	0.000	BNA3(2)_335_337_L_0					
52 D	18.14	1.1327E-05	172.3	90.68	172.3	92.04	UL-RL	2.8868E+04	-8.100	0.000
1.000	1.000	90.68	0.000	0.000	BNA3(2)_335_337_L_0					
53 D	18.57	2.0532E-05	176.3	92.86	176.3	94.39	UL-RL	2.8868E+04	-8.300	0.000
1.000	1.000	92.86	0.000	0.000	BNA3(2)_335_337_L_0					
54 D	19.01	2.8691E-05	180.3	95.03	180.3	96.69	UL-RL	2.8868E+04	-8.500	0.000
1.000	1.000	95.03	0.000	0.000	BNA3(2)_335_337_L_0					
55 D	19.44	3.5862E-05	184.4	97.19	184.4	98.96	UL-RL	2.8868E+04	-8.700	0.000
1.000	1.000	97.19	0.000	0.000	BNA3(2)_335_337_L_0					
56 D	19.86	4.2101E-05	188.4	99.32	188.4	101.2	UL-RL	2.8868E+04	-8.900	0.000
1.000	1.000	99.32	0.000	0.000	BNA3(2)_335_337_L_0					
57 D	20.29	4.7465E-05	192.4	101.4	192.4	103.5	UL-RL	2.8868E+04	-9.100	0.000
1.000	1.000	101.4	0.000	0.000	BNA3(2)_335_337_L_0					
58 D	20.71	5.2007E-05	196.4	103.6	196.4	105.7	UL-RL	2.8868E+04	-9.300	0.000
1.000	1.000	103.6	0.000	0.000	BNA3(2)_335_337_L_0					
59 D	21.13	5.5783E-05	200.4	105.7	200.4	107.9	UL-RL	2.8868E+04	-9.500	0.000
1.000	1.000	105.7	0.000	0.000	BNA3(2)_335_337_L_0					
60 D	21.55	5.8844E-05	204.5	107.8	204.5	110.0	UL-RL	2.8868E+04	-9.700	0.000
1.000	1.000	107.8	0.000	0.000	BNA3(2)_335_337_L_0					
61 D	21.97	6.1240E-05	208.5	109.9	208.5	112.2	UL-RL	2.8868E+04	-9.900	0.000
1.000	1.000	109.9	0.000	0.000	BNA3(2)_335_337_L_0					
62 D	22.39	6.3021E-05	212.5	112.0	212.5	114.3	UL-RL	2.8868E+04	-10.10	0.000
1.000	1.000	112.0	0.000	0.000	BNA3(2)_335_337_L_0					
63 D	22.81	6.4235E-05	216.5	114.1	216.5	116.3	UL-RL	2.8868E+04	-10.30	0.000
1.000	1.000	114.1	0.000	0.000	BNA3(2)_335_337_L_0					
64 D	23.23	6.4926E-05	220.5	116.1	220.5	118.4	UL-RL	2.8868E+04	-10.50	0.000
1.000	1.000	116.1	0.000	0.000	BNA3(2)_335_337_L_0					
65 D	23.64	6.5138E-05	224.6	118.2	224.6	120.4	UL-RL	2.8868E+04	-10.70	0.000
1.000	1.000	118.2	0.000	0.000	BNA3(2)_335_337_L_0					
66 D	24.06	6.4912E-05	228.6	120.3	228.6	122.5	UL-RL	2.8868E+04	-10.90	0.000
1.000	1.000	120.3	0.000	0.000	BNA3(2)_335_337_L_0					
67 D	24.47	6.4288E-05	232.6	122.4	232.6	124.5	UL-RL	2.8868E+04	-11.10	0.000
1.000	1.000	122.4	0.000	0.000	BNA3(2)_335_337_L_0					
68 D	24.89	6.3305E-05	236.6	124.4	236.6	126.5	UL-RL	2.8868E+04	-11.30	0.000
1.000	1.000	124.4	0.000	0.000	BNA3(2)_335_337_L_0					
69 D	25.30	6.1996E-05	240.7	126.5	240.7	128.4	UL-RL	2.8868E+04	-11.50	0.000
1.000	1.000	126.5	0.000	0.000	BNA3(2)_335_337_L_0					
70 D	25.71	6.0396E-05	244.7	128.6	244.7	130.4	UL-RL	2.8868E+04	-11.70	0.000
1.000	1.000	128.6	0.000	0.000	BNA3(2)_335_337_L_0					
71 D	26.12	5.8536E-05	248.7	130.6	248.7	132.4	UL-RL	2.8868E+04	-11.90	0.000
1.000	1.000	130.6	0.000	0.000	BNA3(2)_335_337_L_0					
72 D	26.53	5.6446E-05	252.7	132.7	252.7	134.3	UL-RL	2.8868E+04	-12.10	0.000
1.000	1.000	132.7	0.000	0.000	BNA3(2)_335_337_L_0					
73 D	26.94	5.4154E-05	256.8	134.7	256.8	136.3	UL-RL	2.8868E+04	-12.30	0.000
1.000	1.000	134.7	0.000	0.000	BNA3(2)_335_337_L_0					
74 D	27.35	5.1685E-05	260.8	136.8	260.8	138.2	UL-RL	2.8868E+04	-12.50	0.000
1.000	1.000	136.8	0.000	0.000	BNA3(2)_335_337_L_0					
75 D	27.76	4.9065E-05	264.8	138.8	264.8	140.1	UL-RL	2.8868E+04	-12.70	0.000
1.000	1.000	138.8	0.000	0.000	BNA3(2)_335_337_L_0					
76 D	28.17	4.6314E-05	268.8	140.8	268.8	142.1	UL-RL	2.8868E+04	-12.90	0.000
1.000	1.000	140.8	0.000	0.000	BNA3(2)_335_337_L_0					
77 D	32.79	4.3454E-05	272.9	164.0	272.9	165.5	UL-RL	3.9242E+04	-13.10	0.000
1.000	1.000	164.0	0.000	0.000	BNA3(3)_336_338_L_0					
78 D	33.26	4.0504E-05	276.9	166.3	276.9	167.7	UL-RL	3.9242E+04	-13.30	0.000
1.000	1.000	166.3	0.000	0.000	BNA3(3)_336_338_L_0					
79 D	33.72	3.7480E-05	280.9	168.6	280.9	169.8	UL-RL	3.9242E+04	-13.50	0.000
1.000	1.000	168.6	0.000	0.000	BNA3(3)_336_338_L_0					

80 D	34.19	3.4398E-05	285.0	171.0	285.0	172.0	UL-RL	3.9242E+04	-13.70	0.000
1.000	1.000	171.0	0.000	0.000	BNA3(3)_336_338_L_0					
81 D	34.66	3.1270E-05	289.0	173.3	289.0	174.2	UL-RL	3.9242E+04	-13.90	0.000
1.000	1.000	173.3	0.000	0.000	BNA3(3)_336_338_L_0					
82 D	35.12	2.8107E-05	293.0	175.6	293.0	176.4	UL-RL	3.9242E+04	-14.10	0.000
1.000	1.000	175.6	0.000	0.000	BNA3(3)_336_338_L_0					
83 D	35.59	2.4917E-05	297.1	177.9	297.1	178.6	UL-RL	3.9242E+04	-14.30	0.000
1.000	1.000	177.9	0.000	0.000	BNA3(3)_336_338_L_0					
84 D	36.05	2.1708E-05	301.1	180.3	301.1	180.7	UL-RL	3.9242E+04	-14.50	0.000
1.000	1.000	180.3	0.000	0.000	BNA3(3)_336_338_L_0					
85 D	36.52	1.8485E-05	305.1	182.6	305.1	182.9	UL-RL	3.9242E+04	-14.70	0.000
1.000	1.000	182.6	0.000	0.000	BNA3(3)_336_338_L_0					
86 D	37.07	1.5253E-05	308.2	184.3	308.2	184.5	UL-RL	3.9242E+04	-14.90	0.9999
1.000	1.000	185.3	0.000	0.000	BNA3(3)_336_338_L_0					
87 D	37.70	1.2016E-05	310.2	185.5	310.2	185.5	UL-RL	3.9242E+04	-15.10	3.000
1.000	1.000	188.5	0.000	0.000	BNA3(3)_336_338_L_0					
88 D	38.32	8.7757E-06	312.2	186.6	312.2	186.6	V-C	2.4526E+04	-15.30	5.000
1.000	1.000	191.6	0.000	0.000	BNA3(3)_336_338_L_0					
89 D	38.94	5.5338E-06	314.2	187.7	314.2	187.7	V-C	2.4526E+04	-15.50	7.000
1.000	1.000	194.7	0.000	0.000	BNA3(3)_336_338_L_0					
90 D	39.56	2.2912E-06	316.3	188.8	316.3	188.8	V-C	2.4526E+04	-15.70	9.000
1.000	1.000	197.8	0.000	0.000	BNA3(3)_336_338_L_0					
91 D	30.14	-9.5157E-07	318.3	189.9	318.3	190.0	UL-RL	3.9242E+04	-15.90	11.00
1.000	1.000	200.9	0.000	0.000	BNA3(3)_336_338_L_0					
92 D	10.12	-2.5731E-06	319.3	190.4	319.3	190.5	UL-RL	3.9242E+04	-16.00	12.00
1.000	1.000	202.4	0.000	0.000	BNA3(3)_336_338_L_0					

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|                PARATIE PLUS 2014 NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Sept23, 2015*                |
|                                                                                                                    |
|                NewProject.BaseDesignSection_25.Nominal_60                                                         |
|                Exe Time :29 June 2020      17:22:00                                                                |
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New Project

STRESS RESULTS FOR GROUP NO. 2

O_R :
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 92
CURRENT TIME IS 3.0000

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 LAYER	MAX-H-P	STATE	STIFFNESS	Z-LEVEL	PORE	E FAC-
1	0.000	--	--	--	--	--	REMOVED	--	2.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
2	0.000	--	--	--	--	--	REMOVED	--	1.800	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
3	0.000	--	--	--	--	--	REMOVED	--	1.600	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
4	0.000	--	--	--	--	--	REMOVED	--	1.400	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
5	0.000	--	--	--	--	--	REMOVED	--	1.200	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
6	0.000	--	--	--	--	--	REMOVED	--	1.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
7	0.000	--	--	--	--	--	REMOVED	--	0.8000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
8	0.000	--	--	--	--	--	REMOVED	--	0.6000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
9	0.000	--	--	--	--	--	REMOVED	--	0.4000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
10	0.000	--	--	--	--	--	REMOVED	--	0.2000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
11	0.000	--	--	--	--	--	REMOVED	--	-1.4901E-07	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
12	0.000	--	--	--	--	--	REMOVED	--	-0.2000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
13	0.000	--	--	--	--	--	REMOVED	--	-0.4000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
14	0.000	--	--	--	--	--	REMOVED	--	-0.6000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
15	0.000	--	--	--	--	--	REMOVED	--	-0.8000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
16	0.000	--	--	--	--	--	REMOVED	--	-1.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
17	0.000	--	--	--	--	--	REMOVED	--	-1.200	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
18	0.000	--	--	--	--	--	REMOVED	--	-1.400	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
19	0.000	--	--	--	--	--	REMOVED	--	-1.600	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
20	0.000	--	--	--	--	--	REMOVED	--	-1.800	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
21	0.000	--	--	--	--	--	REMOVED	--	-2.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
22	0.000	--	--	--	--	--	REMOVED	--	-2.100	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
23	0.000	--	--	--	--	--	REMOVED	--	-2.300	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
24	0.000	--	--	--	--	--	REMOVED	--	-2.500	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
25	0.000	--	--	--	--	--	REMOVED	--	-2.700	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
26	0.000	--	--	--	--	--	REMOVED	--	-2.900	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
27 D	0.000	6.8162E-04	0.000	0.000	72.00	38.75	ACTIVE	0.000	-3.100	0.000	
1.000	1.000	0.000	0.000	0.000	BNA3(2)_335_337_L_0						
28 D	2.133	6.3623E-04	4.000	10.66	76.00	40.85	UL-RL	1.9245E+04	-3.300	0.000	
1.000	1.000	10.66	0.000	0.000	BNA3(2)_335_337_L_0						
29 D	5.822	5.9201E-04	8.000	29.11	80.00	44.66	UL-RL	1.9245E+04	-3.500	0.000	
1.000	1.000	29.11	0.000	0.000	BNA3(2)_335_337_L_0						
30 D	9.259	5.4903E-04	12.00	46.29	84.00	60.58	UL-RL	1.9245E+04	-3.700	0.000	
1.000	1.000	46.29	0.000	0.000	BNA3(2)_335_337_L_0						
31 D	9.669	5.0735E-04	16.00	48.34	88.00	61.42	UL-RL	1.9245E+04	-3.900	0.000	
1.000	1.000	48.34	0.000	0.000	BNA3(2)_335_337_L_0						
32 D	10.08	4.6704E-04	20.00	50.40	92.00	62.31	UL-RL	1.9245E+04	-4.100	0.000	
1.000	1.000	50.40	0.000	0.000	BNA3(2)_335_337_L_0						
33 D	10.49	4.2818E-04	24.00	52.44	96.00	63.24	UL-RL	1.9245E+04	-4.300	0.000	
1.000	1.000	52.44	0.000	0.000	BNA3(2)_335_337_L_0						

34 D	10.90	3.9083E-04	28.00	54.49	100.0	64.22	UL-RL	1.9245E+04	-4.500	0.000
1.000	1.000	54.49	0.000	0.000	BNA3(2)_335_337_L_0					
35 D	11.31	3.5505E-04	32.00	56.53	104.0	65.25	UL-RL	1.9245E+04	-4.700	0.000
1.000	1.000	56.53	0.000	0.000	BNA3(2)_335_337_L_0					
36 D	11.71	3.2087E-04	36.00	58.57	108.0	66.33	UL-RL	1.9245E+04	-4.900	0.000
1.000	1.000	58.57	0.000	0.000	BNA3(2)_335_337_L_0					
37 D	12.12	2.8834E-04	40.00	60.61	112.0	67.47	UL-RL	1.9245E+04	-5.100	0.000
1.000	1.000	60.61	0.000	0.000	BNA3(2)_335_337_L_0					
38 D	12.53	2.5746E-04	44.00	62.65	116.0	68.66	UL-RL	1.9245E+04	-5.300	0.000
1.000	1.000	62.65	0.000	0.000	BNA3(2)_335_337_L_0					
39 D	12.94	2.2825E-04	48.00	64.69	120.0	69.91	UL-RL	1.9245E+04	-5.500	0.000
1.000	1.000	64.69	0.000	0.000	BNA3(2)_335_337_L_0					
40 D	13.34	2.0070E-04	52.00	66.72	124.0	71.21	UL-RL	1.9245E+04	-5.700	0.000
1.000	1.000	66.72	0.000	0.000	BNA3(2)_335_337_L_0					
41 D	13.75	1.7480E-04	56.00	68.76	128.0	72.56	UL-RL	1.9245E+04	-5.900	0.000
1.000	1.000	68.76	0.000	0.000	BNA3(2)_335_337_L_0					
42 D	14.16	1.5053E-04	60.00	70.79	132.0	73.96	UL-RL	1.9245E+04	-6.100	0.000
1.000	1.000	70.79	0.000	0.000	BNA3(2)_335_337_L_0					
43 D	14.56	1.2786E-04	64.00	72.82	136.0	75.41	UL-RL	1.9245E+04	-6.300	0.000
1.000	1.000	72.82	0.000	0.000	BNA3(2)_335_337_L_0					
44 D	14.97	1.0675E-04	68.00	74.85	140.0	76.91	UL-RL	1.9245E+04	-6.500	0.000
1.000	1.000	74.85	0.000	0.000	BNA3(2)_335_337_L_0					
45 D	15.38	8.7161E-05	72.00	76.88	144.0	78.45	UL-RL	1.9245E+04	-6.700	0.000
1.000	1.000	76.88	0.000	0.000	BNA3(2)_335_337_L_0					
46 D	15.78	6.9057E-05	76.00	78.92	148.0	80.04	UL-RL	1.9245E+04	-6.900	0.000
1.000	1.000	78.92	0.000	0.000	BNA3(2)_335_337_L_0					
47 D	16.19	5.2386E-05	80.00	80.95	152.0	81.67	UL-RL	1.9245E+04	-7.100	0.000
1.000	1.000	80.95	0.000	0.000	BNA3(2)_335_337_L_0					
48 D	16.60	3.7097E-05	84.00	82.98	156.0	83.35	UL-RL	1.9245E+04	-7.300	0.000
1.000	1.000	82.98	0.000	0.000	BNA3(2)_335_337_L_0					
49 D	17.00	2.3137E-05	88.00	85.01	160.0	85.06	UL-RL	1.9245E+04	-7.500	0.000
1.000	1.000	85.01	0.000	0.000	BNA3(2)_335_337_L_0					
50 D	17.39	1.0450E-05	92.00	86.96	164.0	86.96	UL-RL	1.9245E+04	-7.700	0.000
1.000	1.000	86.96	0.000	0.000	BNA3(2)_335_337_L_0					
51 D	17.78	-1.0188E-06	96.00	88.89	168.0	88.91	UL-RL	1.9245E+04	-7.900	0.000
1.000	1.000	88.89	0.000	0.000	BNA3(2)_335_337_L_0					
52 D	18.15	-1.1327E-05	100.0	90.77	172.0	90.98	UL-RL	1.9245E+04	-8.100	0.000
1.000	1.000	90.77	0.000	0.000	BNA3(2)_335_337_L_0					
53 D	18.53	-2.0532E-05	104.0	92.67	176.0	93.06	UL-RL	1.9245E+04	-8.300	0.000
1.000	1.000	92.67	0.000	0.000	BNA3(2)_335_337_L_0					
54 D	18.92	-2.8691E-05	108.0	94.58	180.0	95.13	UL-RL	1.9245E+04	-8.500	0.000
1.000	1.000	94.58	0.000	0.000	BNA3(2)_335_337_L_0					
55 D	19.30	-3.5862E-05	112.0	96.52	184.0	97.21	UL-RL	1.9245E+04	-8.700	0.000
1.000	1.000	96.52	0.000	0.000	BNA3(2)_335_337_L_0					
56 D	19.69	-4.2101E-05	116.0	98.47	188.0	99.28	UL-RL	1.9245E+04	-8.900	0.000
1.000	1.000	98.47	0.000	0.000	BNA3(2)_335_337_L_0					
57 D	20.09	-4.7465E-05	120.0	100.4	192.0	101.4	UL-RL	1.9245E+04	-9.100	0.000
1.000	1.000	100.4	0.000	0.000	BNA3(2)_335_337_L_0					
58 D	20.48	-5.2007E-05	124.0	102.4	196.0	103.4	UL-RL	1.9245E+04	-9.300	0.000
1.000	1.000	102.4	0.000	0.000	BNA3(2)_335_337_L_0					
59 D	20.88	-5.5783E-05	128.0	104.4	200.0	105.5	UL-RL	1.9245E+04	-9.500	0.000
1.000	1.000	104.4	0.000	0.000	BNA3(2)_335_337_L_0					
60 D	21.28	-5.8844E-05	132.0	106.4	204.0	107.6	UL-RL	1.9245E+04	-9.700	0.000
1.000	1.000	106.4	0.000	0.000	BNA3(2)_335_337_L_0					
61 D	21.69	-6.1240E-05	136.0	108.4	208.0	109.6	UL-RL	1.9245E+04	-9.900	0.000
1.000	1.000	108.4	0.000	0.000	BNA3(2)_335_337_L_0					
62 D	22.09	-6.3021E-05	140.0	110.5	212.0	111.7	UL-RL	1.9245E+04	-10.10	0.000
1.000	1.000	110.5	0.000	0.000	BNA3(2)_335_337_L_0					
63 D	22.50	-6.4235E-05	144.0	112.5	216.0	113.7	UL-RL	1.9245E+04	-10.30	0.000
1.000	1.000	112.5	0.000	0.000	BNA3(2)_335_337_L_0					
64 D	22.91	-6.4926E-05	148.0	114.6	220.0	115.8	UL-RL	1.9245E+04	-10.50	0.000
1.000	1.000	114.6	0.000	0.000	BNA3(2)_335_337_L_0					
65 D	23.32	-6.5138E-05	152.0	116.6	224.0	117.9	UL-RL	1.9245E+04	-10.70	0.000
1.000	1.000	116.6	0.000	0.000	BNA3(2)_335_337_L_0					
66 D	23.74	-6.4912E-05	156.0	118.7	228.0	119.9	UL-RL	1.9245E+04	-10.90	0.000
1.000	1.000	118.7	0.000	0.000	BNA3(2)_335_337_L_0					
67 D	24.15	-6.4288E-05	160.0	120.8	232.0	122.0	UL-RL	1.9245E+04	-11.10	0.000
1.000	1.000	120.8	0.000	0.000	BNA3(2)_335_337_L_0					
68 D	24.57	-6.3305E-05	164.0	122.8	236.0	124.0	UL-RL	1.9245E+04	-11.30	0.000
1.000	1.000	122.8	0.000	0.000	BNA3(2)_335_337_L_0					
69 D	24.98	-6.1996E-05	168.0	124.9	240.0	126.1	UL-RL	1.9245E+04	-11.50	0.000
1.000	1.000	124.9	0.000	0.000	BNA3(2)_335_337_L_0					
70 D	25.40	-6.0396E-05	172.0	127.0	244.0	128.2	UL-RL	1.9245E+04	-11.70	0.000
1.000	1.000	127.0	0.000	0.000	BNA3(2)_335_337_L_0					
71 D	25.82	-5.8536E-05	176.0	129.1	248.0	130.2	UL-RL	1.9245E+04	-11.90	0.000
1.000	1.000	129.1	0.000	0.000	BNA3(2)_335_337_L_0					
72 D	26.24	-5.6446E-05	180.0	131.2	252.0	132.3	UL-RL	1.9245E+04	-12.10	0.000
1.000	1.000	131.2	0.000	0.000	BNA3(2)_335_337_L_0					
73 D	26.66	-5.4154E-05	184.0	133.3	256.0	134.3	UL-RL	1.9245E+04	-12.30	0.000
1.000	1.000	133.3	0.000	0.000	BNA3(2)_335_337_L_0					
74 D	27.07	-5.1685E-05	188.0	135.4	260.0	136.4	UL-RL	1.9245E+04	-12.50	0.000
1.000	1.000	135.4	0.000	0.000	BNA3(2)_335_337_L_0					
75 D	27.49	-4.9065E-05	192.0	137.5	264.0	138.4	UL-RL	1.9245E+04	-12.70	0.000
1.000	1.000	137.5	0.000	0.000	BNA3(2)_335_337_L_0					
76 D	27.91	-4.6314E-05	196.0	139.6	268.0	140.5	UL-RL	1.9245E+04	-12.90	0.000
1.000	1.000	139.6	0.000	0.000	BNA3(2)_335_337_L_0					
77 D	32.41	-4.3454E-05	200.0	162.1	272.0	163.5	UL-RL	3.1854E+04	-13.10	0.000
1.000	1.000	162.1	0.000	0.000	BNA3(3)_336_338_L_0					
78 D	32.90	-4.0504E-05	204.0	164.5	276.0	165.8	UL-RL	3.1854E+04	-13.30	0.000
1.000	1.000	164.5	0.000	0.000	BNA3(3)_336_338_L_0					
79 D	33.39	-3.7480E-05	208.0	167.0	280.0	168.2	UL-RL	3.1854E+04	-13.50	0.000
1.000	1.000	167.0	0.000	0.000	BNA3(3)_336_338_L_0					

80 D	33.88	-3.4398E-05	212.0	169.4	284.0	170.5	UL-RL	3.1854E+04	-13.70	0.000
1.000	1.000	169.4	0.000	0.000	BNA3(3)_336_338_L_0					
81 D	34.37	-3.1270E-05	216.0	171.9	288.0	172.9	UL-RL	3.1854E+04	-13.90	0.000
1.000	1.000	171.9	0.000	0.000	BNA3(3)_336_338_L_0					
82 D	34.86	-2.8107E-05	220.0	174.3	292.0	175.2	UL-RL	3.1854E+04	-14.10	0.000
1.000	1.000	174.3	0.000	0.000	BNA3(3)_336_338_L_0					
83 D	35.35	-2.4917E-05	224.0	176.8	296.0	177.6	UL-RL	3.1854E+04	-14.30	0.000
1.000	1.000	176.8	0.000	0.000	BNA3(3)_336_338_L_0					
84 D	35.84	-2.1708E-05	228.0	179.2	300.0	179.9	UL-RL	3.1854E+04	-14.50	0.000
1.000	1.000	179.2	0.000	0.000	BNA3(3)_336_338_L_0					
85 D	36.33	-1.8485E-05	232.0	181.7	304.0	182.2	UL-RL	3.1854E+04	-14.70	0.000
1.000	1.000	181.7	0.000	0.000	BNA3(3)_336_338_L_0					
86 D	36.91	-1.5253E-05	235.0	183.5	307.0	184.0	UL-RL	3.1854E+04	-14.90	0.9999
1.000	1.000	184.5	0.000	0.000	BNA3(3)_336_338_L_0					
87 D	37.56	-1.2016E-05	237.0	184.8	309.0	185.2	UL-RL	3.1854E+04	-15.10	3.000
1.000	1.000	187.8	0.000	0.000	BNA3(3)_336_338_L_0					
88 D	38.22	-8.7757E-06	239.0	186.1	311.0	186.4	UL-RL	3.1854E+04	-15.30	5.000
1.000	1.000	191.1	0.000	0.000	BNA3(3)_336_338_L_0					
89 D	38.87	-5.5338E-06	241.0	187.4	313.0	187.7	UL-RL	3.1854E+04	-15.50	7.000
1.000	1.000	194.4	0.000	0.000	BNA3(3)_336_338_L_0					
90 D	39.51	-2.2912E-06	243.0	188.6	315.0	189.0	UL-RL	3.1854E+04	-15.70	9.000
1.000	1.000	197.6	0.000	0.000	BNA3(3)_336_338_L_0					
91 D	30.12	9.5157E-07	245.0	189.8	317.0	190.3	UL-RL	3.1854E+04	-15.90	11.00
1.000	1.000	200.8	0.000	0.000	BNA3(3)_336_338_L_0					
92 D	10.12	2.5731E-06	246.0	190.4	318.0	190.9	UL-RL	3.1854E+04	-16.00	12.00
1.000	1.000	202.4	0.000	0.000	BNA3(3)_336_338_L_0					

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|                PARATIE PLUS 2014 NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Sept23, 2015*                |
|                                                                                                                                            |
|                NewProject.BaseDesignSection_25.Nominal_60                                                                              |
|                Exe Time :29 June 2020    17:22:00                                                                              |
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New Project

STRESS RESULTS FOR GROUP NO. 3

WallElement_30 :
 ELEMENT TYPE 2 NO.OF ELEMENTS. IN THIS GROUP 91
 CURRENT TIME IS 3.0000

WALL2D ELEMENT

EL	TA	TB	MA	MB
1	-4.85358E-10	4.85358E-10	-4.82920E-11	-2.38579E-10
2	5.65308E-10	-5.65308E-10	2.46237E-10	-1.18025E-10
3	3.12781E-11	-3.12781E-11	1.77524E-10	9.33404E-11
4	-5.95008E-11	5.95008E-11	-9.64118E-11	-2.67516E-10
5	-9.49854E-11	9.49854E-11	2.51434E-10	-2.98964E-10
6	3.82272E-12	-3.82272E-12	2.89409E-10	-2.79631E-10
7	-2.61053E-10	2.61053E-10	2.54099E-10	-3.51047E-10
8	2.15209E-10	-2.15209E-10	3.45878E-10	-4.03276E-10
9	0.74051	-0.74051	4.40711E-10	0.14810
10	2.9612	-2.9612	-0.14810	0.74035
11	5.9965	-5.9965	-0.74035	1.9397
12	9.5180	-9.5180	-1.9397	3.8433
13	13.526	-13.526	-3.8433	6.5484
14	18.019	-18.019	-6.5484	10.152
15	22.999	-22.999	-10.152	14.752
16	28.465	-28.465	-14.752	20.445
17	34.416	-34.416	-20.445	27.328
18	40.852	-40.852	-27.328	35.499
19	47.774	-47.774	-35.499	45.053
20	55.180	-55.180	-45.053	56.089
21	61.618	-61.618	-56.089	62.251
22	-42.317	42.317	-62.251	53.788
23	-33.633	33.633	-53.788	47.061
24	-24.884	24.884	-47.061	42.084
25	-16.070	16.070	-42.084	38.870
26	-7.1892	7.1892	-38.870	37.433
27	1.7619	-1.7619	-37.433	37.785
28	8.6558	-8.6558	-37.785	39.516
29	11.942	-11.942	-39.516	41.904
30	11.880	-11.880	-41.904	44.280
31	11.422	-11.422	-44.280	46.565
32	10.471	-10.471	-46.565	48.659
33	9.0419	-9.0419	-48.659	50.467
34	7.1510	-7.1510	-50.467	51.897
35	4.9007	-4.9007	-51.897	52.878
36	2.8582	-2.8582	-52.878	53.449
37	1.0141	-1.0141	-53.449	53.652
38	-0.64095	0.64095	-53.652	53.524
39	-2.1165	2.1165	-53.524	53.101
40	-3.4219	3.4219	-53.101	52.416
41	-4.5668	4.5668	-52.416	51.503
42	-5.5606	5.5606	-51.503	50.391
43	-6.4125	6.4125	-50.391	49.108
44	-7.1317	7.1317	-49.108	47.682
45	-7.7272	7.7272	-47.682	46.136
46	-8.2076	8.2076	-46.136	44.495
47	-8.5815	8.5815	-44.495	42.779
48	-8.8571	8.8571	-42.779	41.007
49	-9.0423	9.0423	-41.007	39.199
50	-9.1751	9.1751	-39.199	37.364
51	-9.2549	9.2549	-37.364	35.513
52	-9.2726	9.2726	-35.513	33.658
53	-9.2341	9.2341	-33.658	31.811
54	-9.1447	9.1447	-31.811	29.982
55	-9.0099	9.0099	-29.982	28.180
56	-8.8396	8.8396	-28.180	26.413
57	-8.6388	8.6388	-26.413	24.685
58	-8.4115	8.4115	-24.685	23.003
59	-8.1615	8.1615	-23.003	21.370
60	-7.8923	7.8923	-21.370	19.792
61	-7.6071	7.6071	-19.792	18.270
62	-7.3090	7.3090	-18.270	16.808
63	-7.0010	7.0010	-16.808	15.408
64	-6.6857	6.6857	-15.408	14.071
65	-6.3656	6.3656	-14.071	12.798
66	-6.0431	6.0431	-12.798	11.589
67	-5.7204	5.7204	-11.589	10.445
68	-5.3994	5.3994	-10.445	9.3655
69	-5.0820	5.0820	-9.3655	8.3491
70	-4.7699	4.7699	-8.3491	7.3952

71	-4.4645	4.4645	-7.3952	6.5023
72	-4.1673	4.1673	-6.5023	5.6688
73	-3.8795	3.8795	-5.6688	4.8929
74	-3.6021	3.6021	-4.8929	4.1725
75	-3.3363	3.3363	-4.1725	3.5052
76	-3.0827	3.0827	-3.5052	2.8887
77	-2.7063	2.7063	-2.8887	2.3474
78	-2.3518	2.3518	-2.3474	1.8771
79	-2.0201	2.0201	-1.8771	1.4730
80	-1.7119	1.7119	-1.4730	1.1307
81	-1.4276	1.4276	-1.1307	0.84513
82	-1.1678	1.1678	-0.84513	0.61158
83	-0.93268	0.93268	-0.61158	0.42504
84	-0.72264	0.72264	-0.42504	0.28051
85	-0.53783	0.53783	-0.28051	0.17295
86	-0.37841	0.37841	-0.17295	9.72654E-02
87	-0.24447	0.24447	-9.72654E-02	4.83713E-02
88	-0.14552	0.14552	-4.83713E-02	1.92683E-02
89	-7.28978E-02	7.28978E-02	-1.92683E-02	4.68871E-03
90	-2.21479E-02	2.21479E-02	-4.68871E-03	2.59140E-04
91	-2.59114E-03	2.59114E-03	-2.59140E-04	-1.89182E-13

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|          PARATIE PLUS 2014 NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Sept23, 2015*          |
|                                                                                                    |
|                               NewProject.BaseDesignSection_25.Nominal_60                            |
|                               Exe Time :29 June 2020      17:22:00                                |
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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 . 4

Tieback_341 :
 ELEMENT TYPE 6 NO.OF ELEMENTS. IN THIS GROUP 1
 C U R R E N T T I M E I S 3.0000

POST-TENSION 2D-BOUNDARY ELEMENT

	EL	FORCE	d0	EDISPL	pl. eps	K	-ve limit	+ve limit	
ANCHOR	1	110.40	-1.30158E-03	-1.30158E-03	0.0000	0.0000	0.0000	0.0000	BORN NOW JUST ACTIVATED

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|                PARATIE PLUS 2014 NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Sept23, 2015*                |
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|                NewProject.BaseDesignSection_25.Nominal_60                                                                              |
|                Exe Time :29 June 2020      17:22:00                                                                              |
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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 . 5

Tieback_342 :
ELEMENT TYPE 6 NO.OF ELEMENTS. IN THIS GROUP 1
C U R R E N T T I M E I S 3.0000

POST-TENSION 2D-BOUNDARY ELEMENT

EL	FORCE	d0	EDISPL	pl. eps	K	-ve limit	+ve limit
----	-------	----	--------	---------	---	-----------	-----------

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

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ITER    0  RNORM = 0.000    RMNORM= 0.000
         RINORM=0.1235E+06 RIMNOR=0.1703E+06
         RENORM= 3253.    REMNOR=0.1141E-19 RATIO =0.1623    TOLER =0.1000E-03 NOT CONVERGED
         RFMAX = 110.4    RMMAX = 62.25
         RTSMAL=0.1000E-02 RMSMAL=0.1000E-03
         RDT =0.1235E+06 RDR =0.1703E+06
         RATIOT=0.1623    RATIO= 0.000
         MAX UN= 16.19    IEQ= 93 NODE        47 DOF    1 Y-DISPL.F
         MIN UN=-.1051E-08 IEQ= 3 NODE        2 DOF    1 Y-DISPL.F
         NO. OF CONTACT CONSTRAINT VIOLATIONS    0

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ITER    2  RNORM = 0.000    RMNORM= 0.000
         RINORM=0.1235E+06 RIMNOR=0.1703E+06
         RENORM= 88.69    REMNOR=0.3938E-18 RATIO =0.2680E-01 TOLER =0.1000E-03 NOT CONVERGED
         RFMAX = 110.4    RMMAX = 62.25
         RTSMAL=0.1000E-02 RMSMAL=0.1000E-03
         RDT =0.1235E+06 RDR =0.1703E+06
         RATIOT=0.2680E-01 RATIO= 0.000
         MAX UN= 3.357    IEQ= 69 NODE        35 DOF    1 Y-DISPL.F
         MIN UN=-.4327    IEQ= 181 NODE      91 DOF    1 Y-DISPL.F
         NO. OF CONTACT CONSTRAINT VIOLATIONS    0

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ITER    3  RNORM = 0.000    RMNORM= 0.000
         RINORM=0.1235E+06 RIMNOR=0.1703E+06
         RENORM= 15.25    REMNOR=0.5255E-18 RATIO =0.1111E-01 TOLER =0.1000E-03 NOT CONVERGED
         RFMAX = 110.4    RMMAX = 62.25
         RTSMAL=0.1000E-02 RMSMAL=0.1000E-03
         RDT =0.1235E+06 RDR =0.1703E+06
         RATIOT=0.1111E-01 RATIO= 0.000
         MAX UN= 2.313    IEQ= 43 NODE        22 DOF    1 Y-DISPL.F
         MIN UN=-.2466E-08 IEQ= 51 NODE        26 DOF    1 Y-DISPL.F
         NO. OF CONTACT CONSTRAINT VIOLATIONS    0

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ITER    4  RNORM = 0.000    RMNORM= 0.000
         RINORM=0.1235E+06 RIMNOR=0.1703E+06
         RENORM=0.8177    REMNOR=0.4004E-18 RATIO =0.2574E-02 TOLER =0.1000E-03 NOT CONVERGED
         RFMAX = 110.4    RMMAX = 62.25
         RTSMAL=0.1000E-02 RMSMAL=0.1000E-03
         RDT =0.1235E+06 RDR =0.1703E+06
         RATIOT=0.2574E-02 RATIO= 0.000
         MAX UN=0.8350    IEQ= 97 NODE        49 DOF    1 Y-DISPL.F
         MIN UN=-.5472E-01 IEQ= 159 NODE      80 DOF    1 Y-DISPL.F
         NO. OF CONTACT CONSTRAINT VIOLATIONS    0

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ITER    5  RNORM = 0.000    RMNORM= 0.000
         RINORM=0.1235E+06 RIMNOR=0.1703E+06
         RENORM=0.6762E-06 REMNOR=0.1810E-18 RATIO =0.2340E-05 TOLER =0.1000E-03    CONVERGED !
         RFMAX = 110.4    RMMAX = 62.25
         RTSMAL=0.1000E-02 RMSMAL=0.1000E-03
         RDT =0.1235E+06 RDR =0.1703E+06
         RATIOT=0.2340E-05 RATIO= 0.000
         MAX UN=0.8223E-03 IEQ= 145 NODE      73 DOF    1 Y-DISPL.F
         MIN UN=-.2439E-08 IEQ= 61 NODE      31 DOF    1 Y-DISPL.F
         NO. OF CONTACT CONSTRAINT VIOLATIONS    0

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|          PARATIE PLUS 2014 NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Sept23, 2015*          |
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|          NewProject.BaseDesignSection_25.Nominal_60          |
|          Exe Time :29 June 2020          17:22:00          |
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New Project
SOLUTION REACHED USING 5 ITERATIONS ON 40

PRINT OUT FOR TIME STEP 4 (AT TIME 4.000)

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

	Y-DISPL.F (02)	X-ROT. F (04)	(
1	7.0886422E-03	-3.9411627E-04	
2	7.0098190E-03	-3.9411627E-04	
3	6.9309957E-03	-3.9411627E-04	
4	6.8521725E-03	-3.9411627E-04	
5	6.7733492E-03	-3.9411627E-04	
6	6.6945259E-03	-3.9411627E-04	
7	6.6157026E-03	-3.9411627E-04	
8	6.5368794E-03	-3.9411627E-04	
9	6.4580562E-03	-3.9411627E-04	
10	6.3792332E-03	-3.9411248E-04	
11	6.3004124E-03	-3.9408972E-04	
12	6.2216005E-03	-3.9401768E-04	
13	6.1428117E-03	-3.9385085E-04	
14	6.0640706E-03	-3.9352858E-04	
15	5.9854157E-03	-3.9297503E-04	
16	5.9069021E-03	-3.9209923E-04	
17	5.8286046E-03	-3.9079501E-04	
18	5.7506207E-03	-3.8894104E-04	
19	5.6730739E-03	-3.8640084E-04	
20	5.5961163E-03	-3.8302274E-04	
21	5.5199318E-03	-3.7863990E-04	
22	5.4821959E-03	-3.7603099E-04	
23	5.4074590E-03	-3.7174446E-04	
24	5.3333386E-03	-3.6984964E-04	
25	5.2593665E-03	-3.7024438E-04	
26	5.1850956E-03	-3.7281826E-04	
27	5.1101018E-03	-3.7745256E-04	
28	5.0339857E-03	-3.8402031E-04	
29	4.9563738E-03	-3.9238621E-04	
30	4.8769209E-03	-4.0240670E-04	
31	4.7953110E-03	-4.1392993E-04	
32	4.7112594E-03	-4.2679575E-04	
33	4.6245144E-03	-4.4083571E-04	
34	4.5348586E-03	-4.5587311E-04	
35	4.4421110E-03	-4.7172292E-04	
36	4.3461282E-03	-4.8819182E-04	
37	4.2468069E-03	-5.0507814E-04	
38	4.1440836E-03	-5.2217215E-04	
39	4.0379388E-03	-5.3925566E-04	
40	3.9283972E-03	-5.5610188E-04	
41	3.8155295E-03	-5.7247634E-04	
42	3.6994537E-03	-5.8813592E-04	
43	3.5803390E-03	-6.0282908E-04	
44	3.4584038E-03	-6.1629622E-04	
45	3.3339207E-03	-6.2826930E-04	
46	3.2072147E-03	-6.3847215E-04	
47	3.0786688E-03	-6.4662011E-04	
48	2.9487232E-03	-6.5242029E-04	
49	2.8178716E-03	-6.5565694E-04	
50	2.6866377E-03	-6.5624475E-04	
51	2.5555501E-03	-6.5419668E-04	
52	2.4251274E-03	-6.4962277E-04	
53	2.2958561E-03	-6.4272242E-04	
54	2.1681762E-03	-6.3375529E-04	
55	2.0424737E-03	-6.2299212E-04	
56	1.9190821E-03	-6.1068816E-04	
57	1.7982852E-03	-5.9708354E-04	
58	1.6803209E-03	-5.8240368E-04	
59	1.5653819E-03	-5.6685935E-04	
60	1.4536217E-03	-5.5064746E-04	
61	1.3451552E-03	-5.3395109E-04	
62	1.2400607E-03	-5.1693974E-04	
63	1.1383883E-03	-4.9977071E-04	
64	1.0401533E-03	-4.8258797E-04	
65	9.4534517E-04	-4.652363E-04	
66	8.5392794E-04	-4.4869806E-04	
67	7.6584276E-04	-4.3222029E-04	
68	6.8101009E-04	-4.1618846E-04	
69	5.9933181E-04	-4.0069019E-04	
70	5.2069328E-04	-3.8580296E-04	
71	4.4496908E-04	-3.7159521E-04	
72	3.7200991E-04	-3.5812387E-04	
73	3.0166711E-04	-3.4543895E-04	
74	2.3377919E-04	-3.3358108E-04	

75 1.6817740E-04 -3.2258238E-04
76 1.0468737E-04 -3.1246667E-04
77 4.3130809E-05 -3.0324978E-04
78 -1.6673040E-05 -2.9494042E-04
79 -7.4905843E-05 -2.8753833E-04
80 -1.3174805E-04 -2.8103143E-04
81 -1.8737655E-04 -2.7539657E-04
82 -2.4196264E-04 -2.7060119E-04
83 -2.9567026E-04 -2.6660422E-04
84 -3.4865426E-04 -2.6335615E-04
85 -4.0105879E-04 -2.6079922E-04
86 -4.5301563E-04 -2.5886753E-04
87 -5.0464255E-04 -2.5748710E-04
88 -5.5604176E-04 -2.5657597E-04
89 -6.0729823E-04 -2.5604421E-04
90 -6.5847820E-04 -2.5579383E-04
91 -7.0962744E-04 -2.5571853E-04
92 -7.3520159E-04 -2.5571468E-04


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|                PARATIE PLUS 2014 NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Sept23, 2015*                |
|                                                                                                                    |
|                NewProject.BaseDesignSection_25.Nominal_60                                                         |
|                Exe Time :29 June 2020 17:22:00                                                                    |
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New Project

STRESS RESULTS FOR GROUP NO. 1

0_L :
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 92
CURRENT TIME IS 4.0000

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 LAYER	MAX-H-P	STATE	STIFFNESS	Z-LEVEL	PORE	E FAC-
1	0.000	--	--	--	--	--	REMOVED	--	2.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
2	0.000	--	--	--	--	--	REMOVED	--	1.800	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
3	0.000	--	--	--	--	--	REMOVED	--	1.600	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
4	0.000	--	--	--	--	--	REMOVED	--	1.400	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
5	0.000	--	--	--	--	--	REMOVED	--	1.200	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
6	0.000	--	--	--	--	--	REMOVED	--	1.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
7	0.000	--	--	--	--	--	REMOVED	--	0.8000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
8	0.000	--	--	--	--	--	REMOVED	--	0.6000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
9 D	0.2442	-6.4581E-03	2.001	1.221	2.001	3.703	ACTIVE	0.000	0.4000	0.000	
1.000	1.000	1.221	0.000	0.000	FRANA_334_8_L_0						
10 D	0.7322	-6.3792E-03	6.002	3.661	6.002	11.10	ACTIVE	0.000	0.2000	0.000	
1.000	1.000	3.661	0.000	0.000	FRANA_334_8_L_0						
11 D	1.220	-6.3004E-03	10.00	6.102	10.00	15.18	ACTIVE	0.000	-1.4901E-07	0.000	
1.000	1.000	6.102	0.000	0.000	FRANA_334_8_L_0						
12 D	1.708	-6.2216E-03	14.00	8.542	14.00	17.61	ACTIVE	0.000	-0.2000	0.000	
1.000	1.000	8.542	0.000	0.000	FRANA_334_8_L_0						
13 D	2.197	-6.1428E-03	18.00	10.98	18.00	20.04	ACTIVE	0.000	-0.4000	0.000	
1.000	1.000	10.98	0.000	0.000	FRANA_334_8_L_0						
14 D	2.685	-6.0641E-03	22.01	13.42	22.01	22.47	ACTIVE	0.000	-0.6000	0.000	
1.000	1.000	13.42	0.000	0.000	FRANA_334_8_L_0						
15 D	3.173	-5.9854E-03	26.01	15.86	26.01	24.90	ACTIVE	0.000	-0.8000	0.000	
1.000	1.000	15.86	0.000	0.000	FRANA_334_8_L_0						
16 D	3.661	-5.9069E-03	30.01	18.31	30.01	27.33	ACTIVE	0.000	-1.000	0.000	
1.000	1.000	18.31	0.000	0.000	FRANA_334_8_L_0						
17 D	4.149	-5.8286E-03	34.01	20.75	34.01	29.76	ACTIVE	0.000	-1.200	0.000	
1.000	1.000	20.75	0.000	0.000	FRANA_334_8_L_0						
18 D	4.638	-5.7506E-03	38.01	23.19	38.01	32.18	ACTIVE	0.000	-1.400	0.000	
1.000	1.000	23.19	0.000	0.000	FRANA_334_8_L_0						
19 D	5.126	-5.6731E-03	42.02	25.63	42.02	34.61	ACTIVE	0.000	-1.600	0.000	
1.000	1.000	25.63	0.000	0.000	FRANA_334_8_L_0						
20 D	5.614	-5.5961E-03	46.02	28.07	46.02	37.03	ACTIVE	0.000	-1.800	0.000	
1.000	1.000	28.07	0.000	0.000	FRANA_334_8_L_0						
21 D	2.066	-5.5199E-03	50.02	13.77	50.02	42.93	ACTIVE	0.000	-2.000	0.000	
1.000	1.000	13.77	0.000	0.000	BNA3(2)_335_337_L_0						
22 D	2.166	-5.4822E-03	52.02	14.44	52.02	43.09	ACTIVE	0.000	-2.100	0.000	
1.000	1.000	14.44	0.000	0.000	BNA3(2)_335_337_L_0						
23 D	3.154	-5.4075E-03	56.03	15.77	56.03	43.42	ACTIVE	0.000	-2.300	0.000	
1.000	1.000	15.77	0.000	0.000	BNA3(2)_335_337_L_0						
24 D	3.421	-5.3333E-03	60.03	17.10	60.03	43.74	ACTIVE	0.000	-2.500	0.000	
1.000	1.000	17.10	0.000	0.000	BNA3(2)_335_337_L_0						
25 D	3.688	-5.2594E-03	64.03	18.44	64.03	44.07	ACTIVE	0.000	-2.700	0.000	
1.000	1.000	18.44	0.000	0.000	BNA3(2)_335_337_L_0						
26 D	3.954	-5.1851E-03	68.04	19.77	68.04	44.40	ACTIVE	0.000	-2.900	0.000	
1.000	1.000	19.77	0.000	0.000	BNA3(2)_335_337_L_0						
27 D	4.221	-5.1101E-03	72.04	21.11	72.04	44.76	ACTIVE	0.000	-3.100	0.000	
1.000	1.000	21.11	0.000	0.000	BNA3(2)_335_337_L_0						
28 D	4.488	-5.0340E-03	76.05	22.44	76.05	45.13	ACTIVE	0.000	-3.300	0.000	
1.000	1.000	22.44	0.000	0.000	BNA3(2)_335_337_L_0						
29 D	4.755	-4.9564E-03	80.05	23.77	80.05	45.54	ACTIVE	0.000	-3.500	0.000	
1.000	1.000	23.77	0.000	0.000	BNA3(2)_335_337_L_0						
30 D	5.021	-4.8769E-03	84.06	25.11	84.06	45.98	ACTIVE	0.000	-3.700	0.000	
1.000	1.000	25.11	0.000	0.000	BNA3(2)_335_337_L_0						
31 D	5.288	-4.7953E-03	88.07	26.44	88.07	47.15	ACTIVE	0.000	-3.900	0.000	
1.000	1.000	26.44	0.000	0.000	BNA3(2)_335_337_L_0						
32 D	5.555	-4.7113E-03	92.07	27.78	92.07	49.24	ACTIVE	0.000	-4.100	0.000	
1.000	1.000	27.78	0.000	0.000	BNA3(2)_335_337_L_0						
33 D	5.822	-4.6245E-03	96.08	29.11	96.08	51.34	ACTIVE	0.000	-4.300	0.000	
1.000	1.000	29.11	0.000	0.000	BNA3(2)_335_337_L_0						

34 D	6.089	-4.5349E-03	100.1	30.44	100.1	53.44	ACTIVE	0.000	-4.500	0.000
1.000	1.000	30.44	0.000	0.000	BNA3(2)_335_337_L_0					
35 D	6.356	-4.4421E-03	104.1	31.78	104.1	55.53	ACTIVE	0.000	-4.700	0.000
1.000	1.000	31.78	0.000	0.000	BNA3(2)_335_337_L_0					
36 D	6.623	-4.3461E-03	108.1	33.11	108.1	57.62	ACTIVE	0.000	-4.900	0.000
1.000	1.000	33.11	0.000	0.000	BNA3(2)_335_337_L_0					
37 D	6.890	-4.2468E-03	112.1	34.45	112.1	59.72	ACTIVE	0.000	-5.100	0.000
1.000	1.000	34.45	0.000	0.000	BNA3(2)_335_337_L_0					
38 D	7.157	-4.1441E-03	116.1	35.78	116.1	61.81	ACTIVE	0.000	-5.300	0.000
1.000	1.000	35.78	0.000	0.000	BNA3(2)_335_337_L_0					
39 D	7.424	-4.0379E-03	120.1	37.12	120.1	63.90	ACTIVE	0.000	-5.500	0.000
1.000	1.000	37.12	0.000	0.000	BNA3(2)_335_337_L_0					
40 D	7.691	-3.9284E-03	124.1	38.45	124.1	65.99	ACTIVE	0.000	-5.700	0.000
1.000	1.000	38.45	0.000	0.000	BNA3(2)_335_337_L_0					
41 D	7.958	-3.8155E-03	128.2	39.79	128.2	68.08	ACTIVE	0.000	-5.900	0.000
1.000	1.000	39.79	0.000	0.000	BNA3(2)_335_337_L_0					
42 D	8.225	-3.6995E-03	132.2	41.13	132.2	70.17	ACTIVE	0.000	-6.100	0.000
1.000	1.000	41.13	0.000	0.000	BNA3(2)_335_337_L_0					
43 D	8.492	-3.5803E-03	136.2	42.46	136.2	72.25	ACTIVE	0.000	-6.300	0.000
1.000	1.000	42.46	0.000	0.000	BNA3(2)_335_337_L_0					
44 D	8.760	-3.4584E-03	140.2	43.80	140.2	74.34	ACTIVE	0.000	-6.500	0.000
1.000	1.000	43.80	0.000	0.000	BNA3(2)_335_337_L_0					
45 D	9.027	-3.3339E-03	144.2	45.13	144.2	76.42	ACTIVE	0.000	-6.700	0.000
1.000	1.000	45.13	0.000	0.000	BNA3(2)_335_337_L_0					
46 D	9.294	-3.2072E-03	148.2	46.47	148.2	78.51	ACTIVE	0.000	-6.900	0.000
1.000	1.000	46.47	0.000	0.000	BNA3(2)_335_337_L_0					
47 D	9.561	-3.0787E-03	152.2	47.81	152.2	80.59	ACTIVE	0.000	-7.100	0.000
1.000	1.000	47.81	0.000	0.000	BNA3(2)_335_337_L_0					
48 D	9.829	-2.9487E-03	156.2	49.14	156.2	82.67	ACTIVE	0.000	-7.300	0.000
1.000	1.000	49.14	0.000	0.000	BNA3(2)_335_337_L_0					
49 D	10.10	-2.8179E-03	160.3	50.48	160.3	84.75	ACTIVE	0.000	-7.500	0.000
1.000	1.000	50.48	0.000	0.000	BNA3(2)_335_337_L_0					
50 D	10.36	-2.6866E-03	164.3	51.82	164.3	87.22	ACTIVE	0.000	-7.700	0.000
1.000	1.000	51.82	0.000	0.000	BNA3(2)_335_337_L_0					
51 D	10.71	-2.5556E-03	168.3	53.53	168.3	89.65	UL-RL	1.3674E+04	-7.900	0.000
1.000	1.000	53.53	0.000	0.000	BNA3(2)_335_337_L_0					
52 D	11.47	-2.4251E-03	172.3	57.36	172.3	92.04	UL-RL	1.3674E+04	-8.100	0.000
1.000	1.000	57.36	0.000	0.000	BNA3(2)_335_337_L_0					
53 D	12.24	-2.2959E-03	176.3	61.18	176.3	94.39	UL-RL	1.3674E+04	-8.300	0.000
1.000	1.000	61.18	0.000	0.000	BNA3(2)_335_337_L_0					
54 D	13.00	-2.1682E-03	180.3	64.99	180.3	96.69	UL-RL	1.3674E+04	-8.500	0.000
1.000	1.000	64.99	0.000	0.000	BNA3(2)_335_337_L_0					
55 D	13.75	-2.0425E-03	184.4	68.77	184.4	98.96	UL-RL	1.3674E+04	-8.700	0.000
1.000	1.000	68.77	0.000	0.000	BNA3(2)_335_337_L_0					
56 D	14.50	-1.9191E-03	188.4	72.50	188.4	101.2	UL-RL	1.3674E+04	-8.900	0.000
1.000	1.000	72.50	0.000	0.000	BNA3(2)_335_337_L_0					
57 D	15.24	-1.7983E-03	192.4	76.20	192.4	103.5	UL-RL	1.3674E+04	-9.100	0.000
1.000	1.000	76.20	0.000	0.000	BNA3(2)_335_337_L_0					
58 D	15.97	-1.6803E-03	196.4	79.87	196.4	105.7	UL-RL	1.3674E+04	-9.300	0.000
1.000	1.000	79.87	0.000	0.000	BNA3(2)_335_337_L_0					
59 D	16.70	-1.5654E-03	200.4	83.50	200.4	107.9	UL-RL	1.3674E+04	-9.500	0.000
1.000	1.000	83.50	0.000	0.000	BNA3(2)_335_337_L_0					
60 D	17.42	-1.4536E-03	204.5	87.09	204.5	110.0	UL-RL	1.3674E+04	-9.700	0.000
1.000	1.000	87.09	0.000	0.000	BNA3(2)_335_337_L_0					
61 D	18.13	-1.3452E-03	208.5	90.64	208.5	112.2	UL-RL	1.3674E+04	-9.900	0.000
1.000	1.000	90.64	0.000	0.000	BNA3(2)_335_337_L_0					
62 D	18.83	-1.2401E-03	212.5	94.15	212.5	114.3	UL-RL	1.3674E+04	-10.10	0.000
1.000	1.000	94.15	0.000	0.000	BNA3(2)_335_337_L_0					
63 D	19.52	-1.1384E-03	216.5	97.61	216.5	116.3	UL-RL	1.3674E+04	-10.30	0.000
1.000	1.000	97.61	0.000	0.000	BNA3(2)_335_337_L_0					
64 D	20.21	-1.0402E-03	220.5	101.0	220.5	118.4	UL-RL	1.3674E+04	-10.50	0.000
1.000	1.000	101.0	0.000	0.000	BNA3(2)_335_337_L_0					
65 D	20.88	-9.4535E-04	224.6	104.4	224.6	120.4	UL-RL	1.3674E+04	-10.70	0.000
1.000	1.000	104.4	0.000	0.000	BNA3(2)_335_337_L_0					
66 D	21.55	-8.5393E-04	228.6	107.7	228.6	122.5	UL-RL	1.3674E+04	-10.90	0.000
1.000	1.000	107.7	0.000	0.000	BNA3(2)_335_337_L_0					
67 D	22.20	-7.6584E-04	232.6	111.0	232.6	124.5	UL-RL	1.3674E+04	-11.10	0.000
1.000	1.000	111.0	0.000	0.000	BNA3(2)_335_337_L_0					
68 D	22.85	-6.8101E-04	236.6	114.3	236.6	126.5	UL-RL	1.3674E+04	-11.30	0.000
1.000	1.000	114.3	0.000	0.000	BNA3(2)_335_337_L_0					
69 D	23.49	-5.9933E-04	240.7	117.5	240.7	128.4	UL-RL	1.3674E+04	-11.50	0.000
1.000	1.000	117.5	0.000	0.000	BNA3(2)_335_337_L_0					
70 D	24.12	-5.2069E-04	244.7	120.6	244.7	130.4	UL-RL	1.3674E+04	-11.70	0.000
1.000	1.000	120.6	0.000	0.000	BNA3(2)_335_337_L_0					
71 D	24.75	-4.4497E-04	248.7	123.7	248.7	132.4	UL-RL	1.3674E+04	-11.90	0.000
1.000	1.000	123.7	0.000	0.000	BNA3(2)_335_337_L_0					
72 D	25.36	-3.7201E-04	252.7	126.8	252.7	134.3	UL-RL	1.3674E+04	-12.10	0.000
1.000	1.000	126.8	0.000	0.000	BNA3(2)_335_337_L_0					
73 D	25.97	-3.0167E-04	256.8	129.8	256.8	136.3	UL-RL	1.3674E+04	-12.30	0.000
1.000	1.000	129.8	0.000	0.000	BNA3(2)_335_337_L_0					
74 D	26.57	-2.3378E-04	260.8	132.9	260.8	138.2	UL-RL	1.3674E+04	-12.50	0.000
1.000	1.000	132.9	0.000	0.000	BNA3(2)_335_337_L_0					
75 D	27.17	-1.6818E-04	264.8	135.8	264.8	140.1	UL-RL	1.3674E+04	-12.70	0.000
1.000	1.000	135.8	0.000	0.000	BNA3(2)_335_337_L_0					
76 D	27.76	-1.0469E-04	268.8	138.8	268.8	142.1	UL-RL	1.3674E+04	-12.90	0.000
1.000	1.000	138.8	0.000	0.000	BNA3(2)_335_337_L_0					
77 D	32.47	-4.3131E-05	272.9	162.3	272.9	165.5	UL-RL	1.8588E+04	-13.10	0.000
1.000	1.000	162.3	0.000	0.000	BNA3(3)_336_338_L_0					
78 D	33.17	1.6673E-05	276.9	165.8	276.9	167.7	UL-RL	1.8588E+04	-13.30	0.000
1.000	1.000	165.8	0.000	0.000	BNA3(3)_336_338_L_0					
79 D	33.86	7.4906E-05	280.9	169.3	280.9	169.8	UL-RL	1.8588E+04	-13.50	0.000
1.000	1.000	169.3	0.000	0.000	BNA3(3)_336_338_L_0					

80 D	34.50	1.3175E-04	285.0	172.5	285.0	172.5	V-C	1.1618E+04	-13.70	0.000
1.000	1.000	172.5	0.000	0.000	BNA3(3)_336_338_L_0					
81 D	35.09	1.8738E-04	289.0	175.4	289.0	175.4	V-C	1.1618E+04	-13.90	0.000
1.000	1.000	175.4	0.000	0.000	BNA3(3)_336_338_L_0					
82 D	35.68	2.4196E-04	293.0	178.4	293.0	178.4	V-C	1.1618E+04	-14.10	0.000
1.000	1.000	178.4	0.000	0.000	BNA3(3)_336_338_L_0					
83 D	36.26	2.9567E-04	297.1	181.3	297.1	181.3	V-C	1.1618E+04	-14.30	0.000
1.000	1.000	181.3	0.000	0.000	BNA3(3)_336_338_L_0					
84 D	36.85	3.4865E-04	301.1	184.2	301.1	184.2	V-C	1.1618E+04	-14.50	0.000
1.000	1.000	184.2	0.000	0.000	BNA3(3)_336_338_L_0					
85 D	37.43	4.0106E-04	305.1	187.1	305.1	187.1	V-C	1.1618E+04	-14.70	0.000
1.000	1.000	187.1	0.000	0.000	BNA3(3)_336_338_L_0					
86 D	38.10	4.5302E-04	308.2	189.5	308.2	189.5	V-C	1.1618E+04	-14.90	0.9999
1.000	1.000	190.5	0.000	0.000	BNA3(3)_336_338_L_0					
87 D	38.84	5.0464E-04	310.2	191.2	310.2	191.2	V-C	1.1618E+04	-15.10	3.000
1.000	1.000	194.2	0.000	0.000	BNA3(3)_336_338_L_0					
88 D	39.59	5.5604E-04	312.2	193.0	312.2	193.0	V-C	1.1618E+04	-15.30	5.000
1.000	1.000	198.0	0.000	0.000	BNA3(3)_336_338_L_0					
89 D	40.34	6.0730E-04	314.2	194.7	314.2	194.7	V-C	1.1618E+04	-15.50	7.000
1.000	1.000	201.7	0.000	0.000	BNA3(3)_336_338_L_0					
90 D	41.09	6.5848E-04	316.3	196.4	316.3	196.4	V-C	1.1618E+04	-15.70	9.000
1.000	1.000	205.4	0.000	0.000	BNA3(3)_336_338_L_0					
91 D	31.38	7.0963E-04	318.3	198.2	318.3	198.2	V-C	1.1618E+04	-15.90	11.00
1.000	1.000	209.2	0.000	0.000	BNA3(3)_336_338_L_0					
92 D	10.55	7.3520E-04	319.3	199.1	319.3	199.1	V-C	1.1618E+04	-16.00	12.00
1.000	1.000	211.1	0.000	0.000	BNA3(3)_336_338_L_0					

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|                PARATIE PLUS 2014 NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Sept23, 2015*                |
|                                                                                                            |
|                NewProject.BaseDesignSection_25.Nominal_60                                             |
|                Exe Time :29 June 2020      17:22:00                                                    |
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New Project

STRESS RESULTS FOR GROUP NO. 2

0_R :
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 92
CURRENT TIME IS 4.0000

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 LAYER	MAX-H-P	STATE	STIFFNESS	Z-LEVEL	PORE	E FAC-
1	0.000	--	--	--	--	--	REMOVED	--	2.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
2	0.000	--	--	--	--	--	REMOVED	--	1.800	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
3	0.000	--	--	--	--	--	REMOVED	--	1.600	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
4	0.000	--	--	--	--	--	REMOVED	--	1.400	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
5	0.000	--	--	--	--	--	REMOVED	--	1.200	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
6	0.000	--	--	--	--	--	REMOVED	--	1.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
7	0.000	--	--	--	--	--	REMOVED	--	0.8000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
8	0.000	--	--	--	--	--	REMOVED	--	0.6000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
9	0.000	--	--	--	--	--	REMOVED	--	0.4000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
10	0.000	--	--	--	--	--	REMOVED	--	0.2000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
11	0.000	--	--	--	--	--	REMOVED	--	-1.4901E-07	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
12	0.000	--	--	--	--	--	REMOVED	--	-0.2000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
13	0.000	--	--	--	--	--	REMOVED	--	-0.4000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
14	0.000	--	--	--	--	--	REMOVED	--	-0.6000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
15	0.000	--	--	--	--	--	REMOVED	--	-0.8000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
16	0.000	--	--	--	--	--	REMOVED	--	-1.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
17	0.000	--	--	--	--	--	REMOVED	--	-1.200	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
18	0.000	--	--	--	--	--	REMOVED	--	-1.400	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
19	0.000	--	--	--	--	--	REMOVED	--	-1.600	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
20	0.000	--	--	--	--	--	REMOVED	--	-1.800	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
21	0.000	--	--	--	--	--	REMOVED	--	-2.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
22	0.000	--	--	--	--	--	REMOVED	--	-2.100	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
23	0.000	--	--	--	--	--	REMOVED	--	-2.300	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
24	0.000	--	--	--	--	--	REMOVED	--	-2.500	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
25	0.000	--	--	--	--	--	REMOVED	--	-2.700	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
26	0.000	--	--	--	--	--	REMOVED	--	-2.900	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
27	0.000	--	--	--	--	--	REMOVED	--	-3.100	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
28	0.000	--	--	--	--	--	REMOVED	--	-3.300	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
29	0.000	--	--	--	--	--	REMOVED	--	-3.500	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
30	0.000	--	--	--	--	--	REMOVED	--	-3.700	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
31	0.000	--	--	--	--	--	REMOVED	--	-3.900	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
32	0.000	--	--	--	--	--	REMOVED	--	-4.100	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
33	0.000	--	--	--	--	--	REMOVED	--	-4.300	0.000	
1.000	1.000	0.000	0.000	0.000	not available						

34	0.000	--	--	--	--	--	REMOVED	--	-4.500	0.000
1.000	1.000	0.000	0.000	0.000	not available					
35	0.000	--	--	--	--	--	REMOVED	--	-4.700	0.000
1.000	1.000	0.000	0.000	0.000	not available					
36	0.000	--	--	--	--	--	REMOVED	--	-4.900	0.000
1.000	1.000	0.000	0.000	0.000	not available					
37	0.000	--	--	--	--	--	REMOVED	--	-5.100	0.000
1.000	1.000	0.000	0.000	0.000	not available					
38	0.000	--	--	--	--	--	REMOVED	--	-5.300	0.000
1.000	1.000	0.000	0.000	0.000	not available					
39	0.000	--	--	--	--	--	REMOVED	--	-5.500	0.000
1.000	1.000	0.000	0.000	0.000	not available					
40	0.000	--	--	--	--	--	REMOVED	--	-5.700	0.000
1.000	1.000	0.000	0.000	0.000	not available					
41	0.000	--	--	--	--	--	REMOVED	--	-5.900	0.000
1.000	1.000	0.000	0.000	0.000	not available					
42	0.000	--	--	--	--	--	REMOVED	--	-6.100	0.000
1.000	1.000	0.000	0.000	0.000	not available					
43	0.000	--	--	--	--	--	REMOVED	--	-6.300	0.000
1.000	1.000	0.000	0.000	0.000	not available					
44	0.000	--	--	--	--	--	REMOVED	--	-6.500	0.000
1.000	1.000	0.000	0.000	0.000	not available					
45	0.000	--	--	--	--	--	REMOVED	--	-6.700	0.000
1.000	1.000	0.000	0.000	0.000	not available					
46	0.000	--	--	--	--	--	REMOVED	--	-6.900	0.000
1.000	1.000	0.000	0.000	0.000	not available					
47	0.000	--	--	--	--	--	REMOVED	--	-7.100	0.000
1.000	1.000	0.000	0.000	0.000	not available					
48 D	5.501	2.9487E-03	4.000	27.51	156.0	83.35	PASSIVE	0.000	-7.300	0.000
1.000	1.000	27.51	0.000	0.000	BNA3(2)_335_337_L_0					
49 D	8.932	2.8179E-03	8.000	44.66	160.0	85.06	PASSIVE	0.000	-7.500	0.000
1.000	1.000	44.66	0.000	0.000	BNA3(2)_335_337_L_0					
50 D	12.36	2.6866E-03	12.00	61.81	164.0	86.96	PASSIVE	0.000	-7.700	0.000
1.000	1.000	61.81	0.000	0.000	BNA3(2)_335_337_L_0					
51 D	15.79	2.5556E-03	16.00	78.96	168.0	88.91	PASSIVE	0.000	-7.900	0.000
1.000	1.000	78.96	0.000	0.000	BNA3(2)_335_337_L_0					
52 D	19.22	2.4251E-03	20.00	96.11	172.0	96.11	PASSIVE	0.000	-8.100	0.000
1.000	1.000	96.11	0.000	0.000	BNA3(2)_335_337_L_0					
53 D	21.20	2.2959E-03	24.00	106.0	176.0	106.0	V-C	5698.	-8.300	0.000
1.000	1.000	106.0	0.000	0.000	BNA3(2)_335_337_L_0					
54 D	21.46	2.1682E-03	28.00	107.3	180.0	107.3	V-C	5698.	-8.500	0.000
1.000	1.000	107.3	0.000	0.000	BNA3(2)_335_337_L_0					
55 D	21.72	2.0425E-03	32.00	108.6	184.0	108.6	V-C	5698.	-8.700	0.000
1.000	1.000	108.6	0.000	0.000	BNA3(2)_335_337_L_0					
56 D	21.99	1.9191E-03	36.00	109.9	188.0	109.9	V-C	5698.	-8.900	0.000
1.000	1.000	109.9	0.000	0.000	BNA3(2)_335_337_L_0					
57 D	22.26	1.7983E-03	40.00	111.3	192.0	111.3	V-C	5698.	-9.100	0.000
1.000	1.000	111.3	0.000	0.000	BNA3(2)_335_337_L_0					
58 D	22.53	1.6803E-03	44.00	112.7	196.0	112.7	V-C	5698.	-9.300	0.000
1.000	1.000	112.7	0.000	0.000	BNA3(2)_335_337_L_0					
59 D	22.81	1.5654E-03	48.00	114.1	200.0	114.1	V-C	5698.	-9.500	0.000
1.000	1.000	114.1	0.000	0.000	BNA3(2)_335_337_L_0					
60 D	23.09	1.4536E-03	52.00	115.5	204.0	115.5	V-C	5698.	-9.700	0.000
1.000	1.000	115.5	0.000	0.000	BNA3(2)_335_337_L_0					
61 D	23.38	1.3452E-03	56.00	116.9	208.0	116.9	V-C	5698.	-9.900	0.000
1.000	1.000	116.9	0.000	0.000	BNA3(2)_335_337_L_0					
62 D	23.67	1.2401E-03	60.00	118.4	212.0	118.4	V-C	5698.	-10.10	0.000
1.000	1.000	118.4	0.000	0.000	BNA3(2)_335_337_L_0					
63 D	23.97	1.1384E-03	64.00	119.8	216.0	119.8	V-C	5698.	-10.30	0.000
1.000	1.000	119.8	0.000	0.000	BNA3(2)_335_337_L_0					
64 D	24.27	1.0402E-03	68.00	121.3	220.0	121.3	V-C	5698.	-10.50	0.000
1.000	1.000	121.3	0.000	0.000	BNA3(2)_335_337_L_0					
65 D	24.57	9.4535E-04	72.00	122.8	224.0	122.8	V-C	5698.	-10.70	0.000
1.000	1.000	122.8	0.000	0.000	BNA3(2)_335_337_L_0					
66 D	24.88	8.5393E-04	76.00	124.4	228.0	124.4	V-C	5698.	-10.90	0.000
1.000	1.000	124.4	0.000	0.000	BNA3(2)_335_337_L_0					
67 D	25.19	7.6584E-04	80.00	125.9	232.0	125.9	V-C	5698.	-11.10	0.000
1.000	1.000	125.9	0.000	0.000	BNA3(2)_335_337_L_0					
68 D	25.51	6.8101E-04	84.00	127.5	236.0	127.5	V-C	5698.	-11.30	0.000
1.000	1.000	127.5	0.000	0.000	BNA3(2)_335_337_L_0					
69 D	25.83	5.9933E-04	88.00	129.1	240.0	129.1	V-C	5698.	-11.50	0.000
1.000	1.000	129.1	0.000	0.000	BNA3(2)_335_337_L_0					
70 D	26.15	5.2069E-04	92.00	130.7	244.0	130.7	V-C	5698.	-11.70	0.000
1.000	1.000	130.7	0.000	0.000	BNA3(2)_335_337_L_0					
71 D	26.48	4.4497E-04	96.00	132.4	248.0	132.4	V-C	5698.	-11.90	0.000
1.000	1.000	132.4	0.000	0.000	BNA3(2)_335_337_L_0					
72 D	26.81	3.7201E-04	100.0	134.0	252.0	134.0	V-C	5698.	-12.10	0.000
1.000	1.000	134.0	0.000	0.000	BNA3(2)_335_337_L_0					
73 D	27.14	3.0167E-04	104.0	135.7	256.0	135.7	V-C	5698.	-12.30	0.000
1.000	1.000	135.7	0.000	0.000	BNA3(2)_335_337_L_0					
74 D	27.47	2.3378E-04	108.0	137.3	260.0	137.4	UL-RL	9116.	-12.50	0.000
1.000	1.000	137.3	0.000	0.000	BNA3(2)_335_337_L_0					
75 D	27.80	1.6818E-04	112.0	139.0	264.0	139.2	UL-RL	9116.	-12.70	0.000
1.000	1.000	139.0	0.000	0.000	BNA3(2)_335_337_L_0					
76 D	28.14	1.0469E-04	116.0	140.7	268.0	140.9	UL-RL	9116.	-12.90	0.000
1.000	1.000	140.7	0.000	0.000	BNA3(2)_335_337_L_0					
77 D	32.65	4.3131E-05	120.0	163.2	272.0	163.7	UL-RL	1.5089E+04	-13.10	0.000
1.000	1.000	163.2	0.000	0.000	BNA3(3)_336_338_L_0					
78 D	32.98	-1.6673E-05	124.0	164.9	276.0	165.8	UL-RL	1.5089E+04	-13.30	0.000
1.000	1.000	164.9	0.000	0.000	BNA3(3)_336_338_L_0					
79 D	33.28	-7.4906E-05	128.0	166.4	280.0	168.2	UL-RL	1.5089E+04	-13.50	0.000
1.000	1.000	166.4	0.000	0.000	BNA3(3)_336_338_L_0					

80 D	33.59	-1.3175E-04	132.0	167.9	284.0	170.5	UL-RL	1.5089E+04	-13.70	0.000
1.000	1.000	167.9	0.000	0.000	BNA3(3)_336_338_L_0					
81 D	33.90	-1.8738E-04	136.0	169.5	288.0	172.9	UL-RL	1.5089E+04	-13.90	0.000
1.000	1.000	169.5	0.000	0.000	BNA3(3)_336_338_L_0					
82 D	34.22	-2.4196E-04	140.0	171.1	292.0	175.2	UL-RL	1.5089E+04	-14.10	0.000
1.000	1.000	171.1	0.000	0.000	BNA3(3)_336_338_L_0					
83 D	34.54	-2.9567E-04	144.0	172.7	296.0	177.6	UL-RL	1.5089E+04	-14.30	0.000
1.000	1.000	172.7	0.000	0.000	BNA3(3)_336_338_L_0					
84 D	34.86	-3.4865E-04	148.0	174.3	300.0	179.9	UL-RL	1.5089E+04	-14.50	0.000
1.000	1.000	174.3	0.000	0.000	BNA3(3)_336_338_L_0					
85 D	35.18	-4.0106E-04	152.0	175.9	304.0	182.2	UL-RL	1.5089E+04	-14.70	0.000
1.000	1.000	175.9	0.000	0.000	BNA3(3)_336_338_L_0					
86 D	35.58	-4.5302E-04	155.0	176.9	307.0	184.0	UL-RL	1.5089E+04	-14.90	0.9999
1.000	1.000	177.9	0.000	0.000	BNA3(3)_336_338_L_0					
87 D	36.08	-5.0464E-04	157.0	177.4	309.0	185.2	UL-RL	1.5089E+04	-15.10	3.000
1.000	1.000	180.4	0.000	0.000	BNA3(3)_336_338_L_0					
88 D	36.57	-5.5604E-04	159.0	177.9	311.0	186.4	UL-RL	1.5089E+04	-15.30	5.000
1.000	1.000	182.9	0.000	0.000	BNA3(3)_336_338_L_0					
89 D	37.05	-6.0730E-04	161.0	178.3	313.0	187.7	UL-RL	1.5089E+04	-15.50	7.000
1.000	1.000	185.3	0.000	0.000	BNA3(3)_336_338_L_0					
90 D	37.53	-6.5848E-04	163.0	178.7	315.0	189.0	UL-RL	1.5089E+04	-15.70	9.000
1.000	1.000	187.7	0.000	0.000	BNA3(3)_336_338_L_0					
91 D	28.51	-7.0963E-04	165.0	179.1	317.0	190.3	UL-RL	1.5089E+04	-15.90	11.00
1.000	1.000	190.1	0.000	0.000	BNA3(3)_336_338_L_0					
92 D	9.563	-7.3520E-04	166.0	179.3	318.0	190.9	UL-RL	1.5089E+04	-16.00	12.00
1.000	1.000	191.3	0.000	0.000	BNA3(3)_336_338_L_0					

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|                PARATIE PLUS 2014 NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Sept23, 2015*                |
|                                                                                                                                            |
|                                                                                                                                            |
|                NewProject.BaseDesignSection_25.Nominal_60                                                                              |
|                Exe Time :29 June 2020    17:22:00                                                                              |
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New Project

STRESS RESULTS FOR GROUP NO. 3

WallElement_30 :
ELEMENT TYPE 2 NO.OF ELEMENTS. IN THIS GROUP 91
CURRENT TIME IS 4.0000

WALL2D ELEMENT

EL	TA	TB	MA	MB
1	9.69465E-11	-9.69465E-11	7.24398E-12	-3.07587E-10
2	-1.03171E-10	1.03171E-10	3.06946E-10	-2.78551E-10
3	-2.38387E-10	2.38387E-10	2.48550E-10	-2.50278E-10
4	-3.29848E-10	3.29848E-10	2.03181E-10	-4.68685E-10
5	3.59819E-11	-3.59819E-11	4.46393E-10	-5.69340E-10
6	4.51067E-10	-4.51067E-10	6.20480E-10	-5.01519E-10
7	1.24572E-10	-1.24572E-10	5.61778E-10	-6.81563E-10
8	4.03020E-10	-4.03020E-10	7.37444E-10	-8.02487E-10
9	0.24417	-0.24417	7.48333E-10	4.88338E-02
10	0.97641	-0.97641	-4.88338E-02	0.24412
11	2.1967	-2.1967	-0.24412	0.68346
12	3.9052	-3.9052	-0.68346	1.4645
13	6.1017	-6.1017	-1.4645	2.6848
14	8.7865	-8.7865	-2.6848	4.4421
15	11.959	-11.959	-4.4421	6.8340
16	15.620	-15.620	-6.8340	9.9581
17	19.770	-19.770	-9.9581	13.912
18	24.407	-24.407	-13.912	18.794
19	29.533	-29.533	-18.794	24.700
20	35.148	-35.148	-24.700	31.730
21	37.213	-37.213	-31.730	35.451
22	-78.561	78.561	-35.451	19.739
23	-75.407	75.407	-19.739	4.6574
24	-71.986	71.986	-4.6574	-9.7398
25	-68.298	68.298	9.7398	-23.399
26	-64.344	64.344	23.399	-36.268
27	-60.123	60.123	36.268	-48.293
28	-55.635	55.635	48.293	-59.420
29	-50.881	50.881	59.420	-69.596
30	-45.859	45.859	69.596	-78.768
31	-40.571	40.571	78.768	-86.882
32	-35.016	35.016	86.882	-93.885
33	-29.194	29.194	93.885	-99.724
34	-23.105	23.105	99.724	-104.35
35	-16.750	16.750	104.35	-107.70
36	-10.127	10.127	107.70	-109.72
37	-3.2374	3.2374	109.72	-110.37
38	3.9193	-3.9193	110.37	-109.58
39	11.343	-11.343	109.58	-107.32
40	19.034	-19.034	107.32	-103.51
41	26.992	-26.992	103.51	-98.110
42	35.217	-35.217	98.110	-91.067
43	43.709	-43.709	91.067	-82.325
44	52.469	-52.469	82.325	-71.831
45	61.496	-61.496	71.831	-59.532
46	70.790	-70.790	59.532	-45.374
47	80.351	-80.351	45.374	-29.304
48	84.679	-84.679	29.304	-12.368
49	85.843	-85.843	12.368	4.8002
50	83.845	-83.845	-4.8002	21.569
51	78.759	-78.759	-21.569	37.321
52	71.008	-71.008	-37.321	51.523
53	62.043	-62.043	-51.523	63.931
54	53.579	-53.579	-63.931	74.647
55	45.610	-45.610	-74.647	83.769
56	38.122	-38.122	-83.769	91.393
57	31.103	-31.103	-91.393	97.614
58	24.543	-24.543	-97.614	102.52
59	18.432	-18.432	-102.52	106.21
60	12.756	-12.756	-106.21	108.76
61	7.5045	-7.5045	-108.76	110.26
62	2.6630	-2.6630	-110.26	110.79
63	-1.7810	1.7810	-110.79	110.44
64	-5.8408	5.8408	-110.44	109.27
65	-9.5297	9.5297	-109.27	107.36
66	-12.861	12.861	-107.36	104.79
67	-15.847	15.847	-104.79	101.62
68	-18.501	18.501	-101.62	97.922
69	-20.835	20.835	-97.922	93.754
70	-22.862	22.862	-93.754	89.182

71	-24.592	24.592	-89.182	84.264
72	-26.036	26.036	-84.264	79.057
73	-27.206	27.206	-79.057	73.616
74	-28.104	28.104	-73.616	67.995
75	-28.740	28.740	-67.995	62.247
76	-29.122	29.122	-62.247	56.422
77	-29.300	29.300	-56.422	50.562
78	-29.106	29.106	-50.562	44.741
79	-28.523	28.523	-44.741	39.037
80	-27.615	27.615	-39.037	33.514
81	-26.428	26.428	-33.514	28.228
82	-24.969	24.969	-28.228	23.234
83	-23.242	23.242	-23.234	18.586
84	-21.251	21.251	-18.586	14.335
85	-18.999	18.999	-14.335	10.536
86	-16.489	16.489	-10.536	7.2377
87	-13.722	13.722	-7.2377	4.4933
88	-10.700	10.700	-4.4933	2.3532
89	-7.4134	7.4134	-2.3532	0.87054
90	-3.8578	3.8578	-0.87054	9.89743E-02
91	-0.98964	0.98964	-9.89743E-02	-4.89608E-11


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|          PARATIE PLUS 2014 NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Sept23, 2015*          |
|                                                                                                                                            |
|                                                                                                                                            |
|                                                                                                                                            |
|          NewProject.BaseDesignSection_25.Nominal_60                                                                                       |
|          Exe Time :29 June 2020      17:22:00                                                                                             |
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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 . 4

Tieback_341 :
ELEMENT TYPE 6 NO.OF ELEMENTS. IN THIS GROUP 1
C U R R E N T T I M E I S 4.0000

POST-TENSION 2D-BOUNDARY ELEMENT

	EL	FORCE	d0	EDISPL	pl. eps	K	-ve limit	+ve limit	
ANCHOR	1	117.94	-1.30158E-03	3.25272E-03	0.0000	1655.6	0.0000	0.0000	ELASTIC ORIGINAL YOUNG MODU-
LUS									

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|          PARATIE PLUS 2014 NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Sept23, 2015*          |
|                                                                                                    |
|                               NewProject.BaseDesignSection_25.Nominal_60                               |
|                               Exe Time :29 June 2020      17:22:00                               |
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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 . 5

Tieback_342 :
ELEMENT TYPE 6 NO.OF ELEMENTS. IN THIS GROUP 1
C U R R E N T T I M E I S 4.0000

POST-TENSION 2D-BOUNDARY ELEMENT

EL	FORCE	d0	EDISPL	pl. eps	K	-ve limit	+ve limit
----	-------	----	--------	---------	---	-----------	-----------

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

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ITER      0  RNORM = 0.000      RMNORM= 0.000
            RINORM=0.3500E+06   RIMNOR=0.7736E+06
            RENORM=0.1563E+05   REMNOR=0.1810E-18   RATIO =0.2113      TOLER =0.1000E-03   NOT CONVERGED
            RFMAX = 125.0      RMMAX = 110.8
            RTSMAL=0.1000E-02   RMSMAL=0.1000E-02
            RDT =0.3500E+06      RDR =0.7736E+06
            RATIO=0.2113      RATIO= 0.000
            MAX UN=0.8223E-03   IEQ= 145 NODE      73 DOF      1   Y-DISPL.F
            MIN UN=-125.0      IEQ= 83 NODE      42 DOF      1   Y-DISPL.F
            NO. OF CONTACT CONSTRAINT VIOLATIONS      0

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ITER      2  RNORM = 0.000      RMNORM= 0.000
            RINORM=0.3500E+06   RIMNOR=0.7736E+06
            RENORM=0.1572E-15   REMNOR=0.3235E-18   RATIO =0.2119E-10   TOLER =0.1000E-03      CONVERGED !
            RFMAX = 125.0      RMMAX = 110.8
            RTSMAL=0.1000E-02   RMSMAL=0.1000E-02
            RDT =0.3500E+06      RDR =0.7736E+06
            RATIO=0.2119E-10   RATIO= 0.000
            MAX UN=0.6628E-08   IEQ= 41 NODE      21 DOF      1   Y-DISPL.F
            MIN UN=-.7219E-08   IEQ= 43 NODE      22 DOF      1   Y-DISPL.F
            NO. OF CONTACT CONSTRAINT VIOLATIONS      0

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|                PARATIE PLUS 2014 NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Sept23, 2015*                |
|                                                                                                                                            |
|                                                                                                                                            |
|                NewProject.BaseDesignSection_25.Nominal_60                                                                              |
|                Exe Time :29 June 2020    17:22:00                                                                                          |
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New Project
SOLUTION REACHED USING      2 ITERATIONS ON      40

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P R I N T   O U T   F O R   T I M E   S T E P   5   ( AT TIME 5.000 )

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

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	Y-DISPL.F (02)	X-ROT. F (04)	(
1	6.8240953E-03	-5.0933035E-04	
2	6.7222292E-03	-5.0933035E-04	
3	6.6203632E-03	-5.0933035E-04	
4	6.5184971E-03	-5.0933035E-04	
5	6.4166310E-03	-5.0933035E-04	
6	6.3147648E-03	-5.0933035E-04	
7	6.2128988E-03	-5.0933035E-04	
8	6.1110327E-03	-5.0933035E-04	
9	6.0091667E-03	-5.0933035E-04	
10	5.9073012E-03	-5.0932233E-04	
11	5.8054399E-03	-5.0928245E-04	
12	5.7035929E-03	-5.0917127E-04	
13	5.6017797E-03	-5.0893376E-04	
14	5.5000326E-03	-5.0849929E-04	
15	5.3983990E-03	-5.0778161E-04	
16	5.2969456E-03	-5.0667892E-04	
17	5.1957609E-03	-5.0507376E-04	
18	5.0949585E-03	-5.0283311E-04	
19	4.9946800E-03	-4.9980835E-04	
20	4.8950984E-03	-4.9583524E-04	
21	4.7964211E-03	-4.9073396E-04	
22	4.7474961E-03	-4.8771129E-04	
23	4.6505190E-03	-4.8242286E-04	
24	4.5543870E-03	-4.7923322E-04	
25	4.4586969E-03	-4.7797499E-04	
26	4.3630801E-03	-4.7847064E-04	
27	4.2672043E-03	-4.8053252E-04	
28	4.1707758E-03	-4.8396293E-04	
29	4.0735417E-03	-4.8855409E-04	
30	3.9752913E-03	-4.9408826E-04	
31	3.8758587E-03	-5.0033778E-04	
32	3.7751244E-03	-5.0706514E-04	
33	3.6730173E-03	-5.1402309E-04	
34	3.5695169E-03	-5.2095469E-04	
35	3.4646549E-03	-5.2759351E-04	
36	3.3585174E-03	-5.3366370E-04	
37	3.2512469E-03	-5.3888015E-04	
38	3.1430424E-03	-5.4294877E-04	
39	3.0341641E-03	-5.4556652E-04	
40	2.9249333E-03	-5.4642174E-04	
41	2.8157343E-03	-5.4519437E-04	
42	2.7070157E-03	-5.4155620E-04	
43	2.5991649E-03	-5.3711297E-04	
44	2.4921176E-03	-5.3346285E-04	
45	2.3857508E-03	-5.3025514E-04	
46	2.2800105E-03	-5.2713220E-04	
47	2.1749166E-03	-5.2372978E-04	
48	2.0705619E-03	-5.1967719E-04	
49	1.9671101E-03	-5.1465813E-04	
50	1.8647774E-03	-5.0846490E-04	
51	1.7638100E-03	-5.0099196E-04	
52	1.6644662E-03	-4.9223515E-04	
53	1.5669955E-03	-4.8228395E-04	
54	1.4716220E-03	-4.7129255E-04	
55	1.3785365E-03	-4.5943077E-04	
56	1.2878971E-03	-4.4685754E-04	
57	1.1998311E-03	-4.3372129E-04	
58	1.1144374E-03	-4.2016036E-04	
59	1.0317871E-03	-4.0630310E-04	
60	9.5192794E-04	-3.9226857E-04	
61	8.7488418E-04	-3.7816655E-04	
62	8.0065799E-04	-3.6409777E-04	
63	7.2923555E-04	-3.5015501E-04	
64	6.6058199E-04	-3.3642224E-04	
65	5.9464757E-04	-3.2297570E-04	
66	5.3136805E-04	-3.0988405E-04	
67	4.7066620E-04	-2.9720867E-04	
68	4.1245321E-04	-2.8500396E-04	
69	3.5663006E-04	-2.7331761E-04	
70	3.0308885E-04	-2.6219092E-04	
71	2.5171656E-04	-2.5165955E-04	
72	2.0238605E-04	-2.4175169E-04	
73	1.5497270E-04	-2.3249151E-04	
74	1.0934506E-04	-2.2389720E-04	

75 6.5368571E-05 -2.1598167E-04
76 2.2906623E-05 -2.0875266E-04
77 -1.8178447E-05 -2.0221294E-04
78 -5.8024272E-05 -1.9635900E-04
79 -9.6767032E-05 -1.9117984E-04
80 -1.3453995E-04 -1.8665678E-04
81 -1.7147177E-04 -1.8276413E-04
82 -2.0768556E-04 -1.7947079E-04
83 -2.4329765E-04 -1.7674091E-04
84 -2.7841679E-04 -1.7453406E-04
85 -3.1314315E-04 -1.7280532E-04
86 -3.4756750E-04 -1.7150532E-04
87 -3.8177028E-04 -1.7058032E-04
88 -4.1582076E-04 -1.6997223E-04
89 -4.4977614E-04 -1.6961867E-04
90 -4.8368074E-04 -1.6945278E-04
91 -5.1756500E-04 -1.6940305E-04
92 -5.3450683E-04 -1.6940052E-04

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|                PARATIE PLUS 2014 NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Sept23, 2015*                |
|                                                                                                                    |
|                NewProject.BaseDesignSection_25.Nominal_60                                                         |
|                Exe Time :29 June 2020      17:22:00                                                                |
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New Project

STRESS RESULTS FOR GROUP NO. 1

0_L :
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 92
CURRENT TIME IS 5.0000

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 LAYER	MAX-H-P	STATE	STIFFNESS	Z-LEVEL	PORE	E FAC-
1	0.000	--	--	--	--	--	REMOVED	--	2.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
2	0.000	--	--	--	--	--	REMOVED	--	1.800	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
3	0.000	--	--	--	--	--	REMOVED	--	1.600	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
4	0.000	--	--	--	--	--	REMOVED	--	1.400	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
5	0.000	--	--	--	--	--	REMOVED	--	1.200	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
6	0.000	--	--	--	--	--	REMOVED	--	1.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
7	0.000	--	--	--	--	--	REMOVED	--	0.8000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
8	0.000	--	--	--	--	--	REMOVED	--	0.6000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
9 D	0.5163	-6.0092E-03	2.001	2.582	2.001	3.703	UL-RL	3031.	0.4000	0.000	
1.000	1.000	2.582	0.000	0.000	FRANA_334_8_L_0						
10 D	1.018	-5.9073E-03	6.002	5.092	6.002	11.10	UL-RL	3031.	0.2000	0.000	
1.000	1.000	5.092	0.000	0.000	FRANA_334_8_L_0						
11 D	1.520	-5.8054E-03	10.00	7.602	10.00	15.18	UL-RL	3031.	-1.4901E-07	0.000	
1.000	1.000	7.602	0.000	0.000	FRANA_334_8_L_0						
12 D	2.022	-5.7036E-03	14.00	10.11	14.00	17.61	UL-RL	3031.	-0.2000	0.000	
1.000	1.000	10.11	0.000	0.000	FRANA_334_8_L_0						
13 D	2.525	-5.6018E-03	18.00	12.62	18.00	20.04	UL-RL	3031.	-0.4000	0.000	
1.000	1.000	12.62	0.000	0.000	FRANA_334_8_L_0						
14 D	3.027	-5.5000E-03	22.01	15.13	22.01	22.47	UL-RL	3031.	-0.6000	0.000	
1.000	1.000	15.13	0.000	0.000	FRANA_334_8_L_0						
15 D	3.529	-5.3984E-03	26.01	17.64	26.01	24.90	UL-RL	3031.	-0.8000	0.000	
1.000	1.000	17.64	0.000	0.000	FRANA_334_8_L_0						
16 D	4.031	-5.2969E-03	30.01	20.15	30.01	27.33	UL-RL	3031.	-1.000	0.000	
1.000	1.000	20.15	0.000	0.000	FRANA_334_8_L_0						
17 D	4.533	-5.1958E-03	34.01	22.67	34.01	29.76	UL-RL	3031.	-1.200	0.000	
1.000	1.000	22.67	0.000	0.000	FRANA_334_8_L_0						
18 D	5.035	-5.0950E-03	38.01	25.18	38.01	32.18	UL-RL	3031.	-1.400	0.000	
1.000	1.000	25.18	0.000	0.000	FRANA_334_8_L_0						
19 D	5.537	-4.9947E-03	42.02	27.69	42.02	34.61	UL-RL	3031.	-1.600	0.000	
1.000	1.000	27.69	0.000	0.000	FRANA_334_8_L_0						
20 D	6.039	-4.8951E-03	46.02	30.20	46.02	37.03	UL-RL	3031.	-1.800	0.000	
1.000	1.000	30.20	0.000	0.000	FRANA_334_8_L_0						
21 D	3.550	-4.7964E-03	50.02	23.67	50.02	42.93	UL-RL	1.3674E+04	-2.000	0.000	
1.000	1.000	23.67	0.000	0.000	BNA3(2)_335_337_L_0						
22 D	3.673	-4.7475E-03	52.02	24.48	52.02	43.09	UL-RL	1.3674E+04	-2.100	0.000	
1.000	1.000	24.48	0.000	0.000	BNA3(2)_335_337_L_0						
23 D	5.224	-4.6505E-03	56.03	26.12	56.03	43.42	UL-RL	1.3674E+04	-2.300	0.000	
1.000	1.000	26.12	0.000	0.000	BNA3(2)_335_337_L_0						
24 D	5.551	-4.5544E-03	60.03	27.76	60.03	43.74	UL-RL	1.3674E+04	-2.500	0.000	
1.000	1.000	27.76	0.000	0.000	BNA3(2)_335_337_L_0						
25 D	5.877	-4.4587E-03	64.03	29.39	64.03	44.07	UL-RL	1.3674E+04	-2.700	0.000	
1.000	1.000	29.39	0.000	0.000	BNA3(2)_335_337_L_0						
26 D	6.202	-4.3631E-03	68.04	31.01	68.04	44.40	UL-RL	1.3674E+04	-2.900	0.000	
1.000	1.000	31.01	0.000	0.000	BNA3(2)_335_337_L_0						
27 D	6.526	-4.2672E-03	72.04	32.63	72.04	44.76	UL-RL	1.3674E+04	-3.100	0.000	
1.000	1.000	32.63	0.000	0.000	BNA3(2)_335_337_L_0						
28 D	6.848	-4.1708E-03	76.05	34.24	76.05	45.13	UL-RL	1.3674E+04	-3.300	0.000	
1.000	1.000	34.24	0.000	0.000	BNA3(2)_335_337_L_0						
29 D	7.169	-4.0735E-03	80.05	35.84	80.05	45.54	UL-RL	1.3674E+04	-3.500	0.000	
1.000	1.000	35.84	0.000	0.000	BNA3(2)_335_337_L_0						
30 D	7.487	-3.9753E-03	84.06	37.44	84.06	45.98	UL-RL	1.3674E+04	-3.700	0.000	
1.000	1.000	37.44	0.000	0.000	BNA3(2)_335_337_L_0						
31 D	7.803	-3.8759E-03	88.07	39.01	88.07	47.15	UL-RL	1.3674E+04	-3.900	0.000	
1.000	1.000	39.01	0.000	0.000	BNA3(2)_335_337_L_0						
32 D	8.115	-3.7751E-03	92.07	40.58	92.07	49.24	UL-RL	1.3674E+04	-4.100	0.000	
1.000	1.000	40.58	0.000	0.000	BNA3(2)_335_337_L_0						
33 D	8.424	-3.6730E-03	96.08	42.12	96.08	51.34	UL-RL	1.3674E+04	-4.300	0.000	
1.000	1.000	42.12	0.000	0.000	BNA3(2)_335_337_L_0						

34 D	8.729	-3.5695E-03	100.1	43.64	100.1	53.44	UL-RL	1.3674E+04	-4.500	0.000
1.000	1.000	43.64	0.000	0.000	BNA3(2)_335_337_L_0					
35 D	9.029	-3.4647E-03	104.1	45.14	104.1	55.53	UL-RL	1.3674E+04	-4.700	0.000
1.000	1.000	45.14	0.000	0.000	BNA3(2)_335_337_L_0					
36 D	9.324	-3.3585E-03	108.1	46.62	108.1	57.62	UL-RL	1.3674E+04	-4.900	0.000
1.000	1.000	46.62	0.000	0.000	BNA3(2)_335_337_L_0					
37 D	9.612	-3.2512E-03	112.1	48.06	112.1	59.72	UL-RL	1.3674E+04	-5.100	0.000
1.000	1.000	48.06	0.000	0.000	BNA3(2)_335_337_L_0					
38 D	9.894	-3.1430E-03	116.1	49.47	116.1	61.81	UL-RL	1.3674E+04	-5.300	0.000
1.000	1.000	49.47	0.000	0.000	BNA3(2)_335_337_L_0					
39 D	10.17	-3.0342E-03	120.1	50.84	120.1	63.90	UL-RL	1.3674E+04	-5.500	0.000
1.000	1.000	50.84	0.000	0.000	BNA3(2)_335_337_L_0					
40 D	10.44	-2.9249E-03	124.1	52.18	124.1	65.99	UL-RL	1.3674E+04	-5.700	0.000
1.000	1.000	52.18	0.000	0.000	BNA3(2)_335_337_L_0					
41 D	10.69	-2.8157E-03	128.2	53.46	128.2	68.08	UL-RL	1.3674E+04	-5.900	0.000
1.000	1.000	53.46	0.000	0.000	BNA3(2)_335_337_L_0					
42 D	10.94	-2.7070E-03	132.2	54.70	132.2	70.17	UL-RL	1.3674E+04	-6.100	0.000
1.000	1.000	54.70	0.000	0.000	BNA3(2)_335_337_L_0					
43 D	11.18	-2.5992E-03	136.2	55.88	136.2	72.25	UL-RL	1.3674E+04	-6.300	0.000
1.000	1.000	55.88	0.000	0.000	BNA3(2)_335_337_L_0					
44 D	11.40	-2.4921E-03	140.2	57.01	140.2	74.34	UL-RL	1.3674E+04	-6.500	0.000
1.000	1.000	57.01	0.000	0.000	BNA3(2)_335_337_L_0					
45 D	11.62	-2.3858E-03	144.2	58.10	144.2	76.42	UL-RL	1.3674E+04	-6.700	0.000
1.000	1.000	58.10	0.000	0.000	BNA3(2)_335_337_L_0					
46 D	11.83	-2.2800E-03	148.2	59.15	148.2	78.51	UL-RL	1.3674E+04	-6.900	0.000
1.000	1.000	59.15	0.000	0.000	BNA3(2)_335_337_L_0					
47 D	12.03	-2.1749E-03	152.2	60.16	152.2	80.59	UL-RL	1.3674E+04	-7.100	0.000
1.000	1.000	60.16	0.000	0.000	BNA3(2)_335_337_L_0					
48 D	12.23	-2.0706E-03	156.2	61.15	156.2	82.67	UL-RL	1.3674E+04	-7.300	0.000
1.000	1.000	61.15	0.000	0.000	BNA3(2)_335_337_L_0					
49 D	12.42	-1.9671E-03	160.3	62.11	160.3	84.75	UL-RL	1.3674E+04	-7.500	0.000
1.000	1.000	62.11	0.000	0.000	BNA3(2)_335_337_L_0					
50 D	12.61	-1.8648E-03	164.3	63.06	164.3	87.22	UL-RL	1.3674E+04	-7.700	0.000
1.000	1.000	63.06	0.000	0.000	BNA3(2)_335_337_L_0					
51 D	12.87	-1.7638E-03	168.3	64.36	168.3	89.65	UL-RL	1.3674E+04	-7.900	0.000
1.000	1.000	64.36	0.000	0.000	BNA3(2)_335_337_L_0					
52 D	13.55	-1.6645E-03	172.3	67.76	172.3	92.04	UL-RL	1.3674E+04	-8.100	0.000
1.000	1.000	67.76	0.000	0.000	BNA3(2)_335_337_L_0					
53 D	14.23	-1.5670E-03	176.3	71.15	176.3	94.39	UL-RL	1.3674E+04	-8.300	0.000
1.000	1.000	71.15	0.000	0.000	BNA3(2)_335_337_L_0					
54 D	14.90	-1.4716E-03	180.3	74.51	180.3	96.69	UL-RL	1.3674E+04	-8.500	0.000
1.000	1.000	74.51	0.000	0.000	BNA3(2)_335_337_L_0					
55 D	15.57	-1.3785E-03	184.4	77.85	184.4	98.96	UL-RL	1.3674E+04	-8.700	0.000
1.000	1.000	77.85	0.000	0.000	BNA3(2)_335_337_L_0					
56 D	16.23	-1.2879E-03	188.4	81.13	188.4	101.2	UL-RL	1.3674E+04	-8.900	0.000
1.000	1.000	81.13	0.000	0.000	BNA3(2)_335_337_L_0					
57 D	16.88	-1.1998E-03	192.4	84.39	192.4	103.5	UL-RL	1.3674E+04	-9.100	0.000
1.000	1.000	84.39	0.000	0.000	BNA3(2)_335_337_L_0					
58 D	17.52	-1.1144E-03	196.4	87.61	196.4	105.7	UL-RL	1.3674E+04	-9.300	0.000
1.000	1.000	87.61	0.000	0.000	BNA3(2)_335_337_L_0					
59 D	18.16	-1.0318E-03	200.4	90.79	200.4	107.9	UL-RL	1.3674E+04	-9.500	0.000
1.000	1.000	90.79	0.000	0.000	BNA3(2)_335_337_L_0					
60 D	18.79	-9.5193E-04	204.5	93.95	204.5	110.0	UL-RL	1.3674E+04	-9.700	0.000
1.000	1.000	93.95	0.000	0.000	BNA3(2)_335_337_L_0					
61 D	19.41	-8.7488E-04	208.5	97.07	208.5	112.2	UL-RL	1.3674E+04	-9.900	0.000
1.000	1.000	97.07	0.000	0.000	BNA3(2)_335_337_L_0					
62 D	20.03	-8.0066E-04	212.5	100.2	212.5	114.3	UL-RL	1.3674E+04	-10.10	0.000
1.000	1.000	100.2	0.000	0.000	BNA3(2)_335_337_L_0					
63 D	20.64	-7.2924E-04	216.5	103.2	216.5	116.3	UL-RL	1.3674E+04	-10.30	0.000
1.000	1.000	103.2	0.000	0.000	BNA3(2)_335_337_L_0					
64 D	21.24	-6.6058E-04	220.5	106.2	220.5	118.4	UL-RL	1.3674E+04	-10.50	0.000
1.000	1.000	106.2	0.000	0.000	BNA3(2)_335_337_L_0					
65 D	21.84	-5.9465E-04	224.6	109.2	224.6	120.4	UL-RL	1.3674E+04	-10.70	0.000
1.000	1.000	109.2	0.000	0.000	BNA3(2)_335_337_L_0					
66 D	22.43	-5.3137E-04	228.6	112.1	228.6	122.5	UL-RL	1.3674E+04	-10.90	0.000
1.000	1.000	112.1	0.000	0.000	BNA3(2)_335_337_L_0					
67 D	23.01	-4.7067E-04	232.6	115.1	232.6	124.5	UL-RL	1.3674E+04	-11.10	0.000
1.000	1.000	115.1	0.000	0.000	BNA3(2)_335_337_L_0					
68 D	23.59	-4.1245E-04	236.6	117.9	236.6	126.5	UL-RL	1.3674E+04	-11.30	0.000
1.000	1.000	117.9	0.000	0.000	BNA3(2)_335_337_L_0					
69 D	24.15	-3.5663E-04	240.7	120.8	240.7	128.4	UL-RL	1.3674E+04	-11.50	0.000
1.000	1.000	120.8	0.000	0.000	BNA3(2)_335_337_L_0					
70 D	24.72	-3.0309E-04	244.7	123.6	244.7	130.4	UL-RL	1.3674E+04	-11.70	0.000
1.000	1.000	123.6	0.000	0.000	BNA3(2)_335_337_L_0					
71 D	25.27	-2.5172E-04	248.7	126.4	248.7	132.4	UL-RL	1.3674E+04	-11.90	0.000
1.000	1.000	126.4	0.000	0.000	BNA3(2)_335_337_L_0					
72 D	25.83	-2.0239E-04	252.7	129.1	252.7	134.3	UL-RL	1.3674E+04	-12.10	0.000
1.000	1.000	129.1	0.000	0.000	BNA3(2)_335_337_L_0					
73 D	26.37	-1.5497E-04	256.8	131.9	256.8	136.3	UL-RL	1.3674E+04	-12.30	0.000
1.000	1.000	131.9	0.000	0.000	BNA3(2)_335_337_L_0					
74 D	26.91	-1.0935E-04	260.8	134.6	260.8	138.2	UL-RL	1.3674E+04	-12.50	0.000
1.000	1.000	134.6	0.000	0.000	BNA3(2)_335_337_L_0					
75 D	27.45	-6.5369E-05	264.8	137.2	264.8	140.1	UL-RL	1.3674E+04	-12.70	0.000
1.000	1.000	137.2	0.000	0.000	BNA3(2)_335_337_L_0					
76 D	27.98	-2.2907E-05	268.8	139.9	268.8	142.1	UL-RL	1.3674E+04	-12.90	0.000
1.000	1.000	139.9	0.000	0.000	BNA3(2)_335_337_L_0					
77 D	32.70	1.8178E-05	272.9	163.5	272.9	165.5	UL-RL	1.8588E+04	-13.10	0.000
1.000	1.000	163.5	0.000	0.000	BNA3(3)_336_338_L_0					
78 D	33.32	5.8024E-05	276.9	166.6	276.9	167.7	UL-RL	1.8588E+04	-13.30	0.000
1.000	1.000	166.6	0.000	0.000	BNA3(3)_336_338_L_0					
79 D	33.95	9.6767E-05	280.9	169.7	280.9	169.8	UL-RL	1.8588E+04	-13.50	0.000
1.000	1.000	169.7	0.000	0.000	BNA3(3)_336_338_L_0					

80 D	34.50	1.3454E-04	285.0	172.5	285.0	172.5	V-C	1.1618E+04	-13.70	0.000
1.000	1.000	172.5	0.000	0.000	BNA3(3)_336_338_L_0					
81 D	35.03	1.7147E-04	289.0	175.1	289.0	175.4	UL-RL	1.8588E+04	-13.90	0.000
1.000	1.000	175.1	0.000	0.000	BNA3(3)_336_338_L_0					
82 D	35.55	2.0769E-04	293.0	177.7	293.0	178.4	UL-RL	1.8588E+04	-14.10	0.000
1.000	1.000	177.7	0.000	0.000	BNA3(3)_336_338_L_0					
83 D	36.07	2.4330E-04	297.1	180.3	297.1	181.3	UL-RL	1.8588E+04	-14.30	0.000
1.000	1.000	180.3	0.000	0.000	BNA3(3)_336_338_L_0					
84 D	36.59	2.7842E-04	301.1	182.9	301.1	184.2	UL-RL	1.8588E+04	-14.50	0.000
1.000	1.000	182.9	0.000	0.000	BNA3(3)_336_338_L_0					
85 D	37.10	3.1314E-04	305.1	185.5	305.1	187.1	UL-RL	1.8588E+04	-14.70	0.000
1.000	1.000	185.5	0.000	0.000	BNA3(3)_336_338_L_0					
86 D	37.70	3.4757E-04	308.2	187.5	308.2	189.5	UL-RL	1.8588E+04	-14.90	0.9999
1.000	1.000	188.5	0.000	0.000	BNA3(3)_336_338_L_0					
87 D	38.39	3.8177E-04	310.2	188.9	310.2	191.2	UL-RL	1.8588E+04	-15.10	3.000
1.000	1.000	191.9	0.000	0.000	BNA3(3)_336_338_L_0					
88 D	39.07	4.1582E-04	312.2	190.4	312.2	193.0	UL-RL	1.8588E+04	-15.30	5.000
1.000	1.000	195.4	0.000	0.000	BNA3(3)_336_338_L_0					
89 D	39.76	4.4978E-04	314.2	191.8	314.2	194.7	UL-RL	1.8588E+04	-15.50	7.000
1.000	1.000	198.8	0.000	0.000	BNA3(3)_336_338_L_0					
90 D	40.44	4.8368E-04	316.3	193.2	316.3	196.4	UL-RL	1.8588E+04	-15.70	9.000
1.000	1.000	202.2	0.000	0.000	BNA3(3)_336_338_L_0					
91 D	30.84	5.1756E-04	318.3	194.6	318.3	198.2	UL-RL	1.8588E+04	-15.90	11.00
1.000	1.000	205.6	0.000	0.000	BNA3(3)_336_338_L_0					
92 D	10.37	5.3451E-04	319.3	195.3	319.3	199.1	UL-RL	1.8588E+04	-16.00	12.00
1.000	1.000	207.3	0.000	0.000	BNA3(3)_336_338_L_0					

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|                PARATIE PLUS 2014 NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Sept23, 2015*                |
|                                                                                                            |
|                NewProject.BaseDesignSection_25.Nominal_60                                             |
|                Exe Time :29 June 2020      17:22:00                                                    |
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New Project

STRESS RESULTS FOR GROUP NO. 2

O_R :
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 92
CURRENT TIME IS 5.0000

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 LAYER	MAX-H-P	STATE	STIFFNESS	Z-LEVEL	PORE	E FAC-
1	0.000	--	--	--	--	--	REMOVED	--	2.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
2	0.000	--	--	--	--	--	REMOVED	--	1.800	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
3	0.000	--	--	--	--	--	REMOVED	--	1.600	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
4	0.000	--	--	--	--	--	REMOVED	--	1.400	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
5	0.000	--	--	--	--	--	REMOVED	--	1.200	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
6	0.000	--	--	--	--	--	REMOVED	--	1.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
7	0.000	--	--	--	--	--	REMOVED	--	0.8000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
8	0.000	--	--	--	--	--	REMOVED	--	0.6000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
9	0.000	--	--	--	--	--	REMOVED	--	0.4000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
10	0.000	--	--	--	--	--	REMOVED	--	0.2000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
11	0.000	--	--	--	--	--	REMOVED	--	-1.4901E-07	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
12	0.000	--	--	--	--	--	REMOVED	--	-0.2000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
13	0.000	--	--	--	--	--	REMOVED	--	-0.4000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
14	0.000	--	--	--	--	--	REMOVED	--	-0.6000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
15	0.000	--	--	--	--	--	REMOVED	--	-0.8000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
16	0.000	--	--	--	--	--	REMOVED	--	-1.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
17	0.000	--	--	--	--	--	REMOVED	--	-1.200	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
18	0.000	--	--	--	--	--	REMOVED	--	-1.400	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
19	0.000	--	--	--	--	--	REMOVED	--	-1.600	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
20	0.000	--	--	--	--	--	REMOVED	--	-1.800	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
21	0.000	--	--	--	--	--	REMOVED	--	-2.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
22	0.000	--	--	--	--	--	REMOVED	--	-2.100	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
23	0.000	--	--	--	--	--	REMOVED	--	-2.300	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
24	0.000	--	--	--	--	--	REMOVED	--	-2.500	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
25	0.000	--	--	--	--	--	REMOVED	--	-2.700	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
26	0.000	--	--	--	--	--	REMOVED	--	-2.900	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
27	0.000	--	--	--	--	--	REMOVED	--	-3.100	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
28	0.000	--	--	--	--	--	REMOVED	--	-3.300	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
29	0.000	--	--	--	--	--	REMOVED	--	-3.500	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
30	0.000	--	--	--	--	--	REMOVED	--	-3.700	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
31	0.000	--	--	--	--	--	REMOVED	--	-3.900	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
32	0.000	--	--	--	--	--	REMOVED	--	-4.100	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
33	0.000	--	--	--	--	--	REMOVED	--	-4.300	0.000	
1.000	1.000	0.000	0.000	0.000	not available						

34	0.000	--	--	--	--	--	REMOVED	--	-4.500	0.000
1.000	1.000	0.000	0.000	0.000	not available					
35	0.000	--	--	--	--	--	REMOVED	--	-4.700	0.000
1.000	1.000	0.000	0.000	0.000	not available					
36	0.000	--	--	--	--	--	REMOVED	--	-4.900	0.000
1.000	1.000	0.000	0.000	0.000	not available					
37	0.000	--	--	--	--	--	REMOVED	--	-5.100	0.000
1.000	1.000	0.000	0.000	0.000	not available					
38	0.000	--	--	--	--	--	REMOVED	--	-5.300	0.000
1.000	1.000	0.000	0.000	0.000	not available					
39	0.000	--	--	--	--	--	REMOVED	--	-5.500	0.000
1.000	1.000	0.000	0.000	0.000	not available					
40	0.000	--	--	--	--	--	REMOVED	--	-5.700	0.000
1.000	1.000	0.000	0.000	0.000	not available					
41	0.000	--	--	--	--	--	REMOVED	--	-5.900	0.000
1.000	1.000	0.000	0.000	0.000	not available					
42	0.000	--	--	--	--	--	REMOVED	--	-6.100	0.000
1.000	1.000	0.000	0.000	0.000	not available					
43	0.000	--	--	--	--	--	REMOVED	--	-6.300	0.000
1.000	1.000	0.000	0.000	0.000	not available					
44	0.000	--	--	--	--	--	REMOVED	--	-6.500	0.000
1.000	1.000	0.000	0.000	0.000	not available					
45	0.000	--	--	--	--	--	REMOVED	--	-6.700	0.000
1.000	1.000	0.000	0.000	0.000	not available					
46	0.000	--	--	--	--	--	REMOVED	--	-6.900	0.000
1.000	1.000	0.000	0.000	0.000	not available					
47	0.000	--	--	--	--	--	REMOVED	--	-7.100	0.000
1.000	1.000	0.000	0.000	0.000	not available					
48 D	3.900	2.0706E-03	4.000	19.50	156.0	83.35	UL-RL	9116.	-7.300	0.000
1.000	1.000	19.50	0.000	0.000	BNA3(2)_335_337_L_0					
49 D	7.380	1.9671E-03	8.000	36.90	160.0	85.06	UL-RL	9116.	-7.500	0.000
1.000	1.000	36.90	0.000	0.000	BNA3(2)_335_337_L_0					
50 D	10.86	1.8648E-03	12.00	54.32	164.0	86.96	UL-RL	9116.	-7.700	0.000
1.000	1.000	54.32	0.000	0.000	BNA3(2)_335_337_L_0					
51 D	14.35	1.7638E-03	16.00	71.74	168.0	88.91	UL-RL	9116.	-7.900	0.000
1.000	1.000	71.74	0.000	0.000	BNA3(2)_335_337_L_0					
52 D	17.84	1.6645E-03	20.00	89.18	172.0	96.11	UL-RL	9116.	-8.100	0.000
1.000	1.000	89.18	0.000	0.000	BNA3(2)_335_337_L_0					
53 D	19.87	1.5670E-03	24.00	99.37	176.0	106.0	UL-RL	9116.	-8.300	0.000
1.000	1.000	99.37	0.000	0.000	BNA3(2)_335_337_L_0					
54 D	20.19	1.4716E-03	28.00	101.0	180.0	107.3	UL-RL	9116.	-8.500	0.000
1.000	1.000	101.0	0.000	0.000	BNA3(2)_335_337_L_0					
55 D	20.51	1.3785E-03	32.00	102.6	184.0	108.6	UL-RL	9116.	-8.700	0.000
1.000	1.000	102.6	0.000	0.000	BNA3(2)_335_337_L_0					
56 D	20.84	1.2879E-03	36.00	104.2	188.0	109.9	UL-RL	9116.	-8.900	0.000
1.000	1.000	104.2	0.000	0.000	BNA3(2)_335_337_L_0					
57 D	21.17	1.1998E-03	40.00	105.8	192.0	111.3	UL-RL	9116.	-9.100	0.000
1.000	1.000	105.8	0.000	0.000	BNA3(2)_335_337_L_0					
58 D	21.50	1.1144E-03	44.00	107.5	196.0	112.7	UL-RL	9116.	-9.300	0.000
1.000	1.000	107.5	0.000	0.000	BNA3(2)_335_337_L_0					
59 D	21.84	1.0318E-03	48.00	109.2	200.0	114.1	UL-RL	9116.	-9.500	0.000
1.000	1.000	109.2	0.000	0.000	BNA3(2)_335_337_L_0					
60 D	22.18	9.5193E-04	52.00	110.9	204.0	115.5	UL-RL	9116.	-9.700	0.000
1.000	1.000	110.9	0.000	0.000	BNA3(2)_335_337_L_0					
61 D	22.52	8.7488E-04	56.00	112.6	208.0	116.9	UL-RL	9116.	-9.900	0.000
1.000	1.000	112.6	0.000	0.000	BNA3(2)_335_337_L_0					
62 D	22.87	8.0066E-04	60.00	114.3	212.0	118.4	UL-RL	9116.	-10.10	0.000
1.000	1.000	114.3	0.000	0.000	BNA3(2)_335_337_L_0					
63 D	23.22	7.2924E-04	64.00	116.1	216.0	119.8	UL-RL	9116.	-10.30	0.000
1.000	1.000	116.1	0.000	0.000	BNA3(2)_335_337_L_0					
64 D	23.57	6.6058E-04	68.00	117.9	220.0	121.3	UL-RL	9116.	-10.50	0.000
1.000	1.000	117.9	0.000	0.000	BNA3(2)_335_337_L_0					
65 D	23.93	5.9465E-04	72.00	119.6	224.0	122.8	UL-RL	9116.	-10.70	0.000
1.000	1.000	119.6	0.000	0.000	BNA3(2)_335_337_L_0					
66 D	24.29	5.3137E-04	76.00	121.4	228.0	124.4	UL-RL	9116.	-10.90	0.000
1.000	1.000	121.4	0.000	0.000	BNA3(2)_335_337_L_0					
67 D	24.65	4.7067E-04	80.00	123.3	232.0	125.9	UL-RL	9116.	-11.10	0.000
1.000	1.000	123.3	0.000	0.000	BNA3(2)_335_337_L_0					
68 D	25.02	4.1245E-04	84.00	125.1	236.0	127.5	UL-RL	9116.	-11.30	0.000
1.000	1.000	125.1	0.000	0.000	BNA3(2)_335_337_L_0					
69 D	25.38	3.5663E-04	88.00	126.9	240.0	129.1	UL-RL	9116.	-11.50	0.000
1.000	1.000	126.9	0.000	0.000	BNA3(2)_335_337_L_0					
70 D	25.75	3.0309E-04	92.00	128.8	244.0	130.7	UL-RL	9116.	-11.70	0.000
1.000	1.000	128.8	0.000	0.000	BNA3(2)_335_337_L_0					
71 D	26.12	2.5172E-04	96.00	130.6	248.0	132.4	UL-RL	9116.	-11.90	0.000
1.000	1.000	130.6	0.000	0.000	BNA3(2)_335_337_L_0					
72 D	26.50	2.0239E-04	100.0	132.5	252.0	134.0	UL-RL	9116.	-12.10	0.000
1.000	1.000	132.5	0.000	0.000	BNA3(2)_335_337_L_0					
73 D	26.87	1.5497E-04	104.0	134.4	256.0	135.7	UL-RL	9116.	-12.30	0.000
1.000	1.000	134.4	0.000	0.000	BNA3(2)_335_337_L_0					
74 D	27.24	1.0935E-04	108.0	136.2	260.0	137.4	UL-RL	9116.	-12.50	0.000
1.000	1.000	136.2	0.000	0.000	BNA3(2)_335_337_L_0					
75 D	27.61	6.5369E-05	112.0	138.1	264.0	139.2	UL-RL	9116.	-12.70	0.000
1.000	1.000	138.1	0.000	0.000	BNA3(2)_335_337_L_0					
76 D	27.99	2.2907E-05	116.0	139.9	268.0	140.9	UL-RL	9116.	-12.90	0.000
1.000	1.000	139.9	0.000	0.000	BNA3(2)_335_337_L_0					
77 D	32.46	-1.8178E-05	120.0	162.3	272.0	163.7	UL-RL	1.5089E+04	-13.10	0.000
1.000	1.000	162.3	0.000	0.000	BNA3(3)_336_338_L_0					
78 D	32.85	-5.8024E-05	124.0	164.3	276.0	165.8	UL-RL	1.5089E+04	-13.30	0.000
1.000	1.000	164.3	0.000	0.000	BNA3(3)_336_338_L_0					
79 D	33.21	-9.6767E-05	128.0	166.1	280.0	168.2	UL-RL	1.5089E+04	-13.50	0.000
1.000	1.000	166.1	0.000	0.000	BNA3(3)_336_338_L_0					

80 D	33.58	-1.3454E-04	132.0	167.9	284.0	170.5	UL-RL	1.5089E+04	-13.70	0.000
1.000	1.000	167.9	0.000	0.000	BNA3(3)_336_338_L_0					
81 D	33.95	-1.7147E-04	136.0	169.7	288.0	172.9	UL-RL	1.5089E+04	-13.90	0.000
1.000	1.000	169.7	0.000	0.000	BNA3(3)_336_338_L_0					
82 D	34.32	-2.0769E-04	140.0	171.6	292.0	175.2	UL-RL	1.5089E+04	-14.10	0.000
1.000	1.000	171.6	0.000	0.000	BNA3(3)_336_338_L_0					
83 D	34.69	-2.4330E-04	144.0	173.5	296.0	177.6	UL-RL	1.5089E+04	-14.30	0.000
1.000	1.000	173.5	0.000	0.000	BNA3(3)_336_338_L_0					
84 D	35.07	-2.7842E-04	148.0	175.3	300.0	179.9	UL-RL	1.5089E+04	-14.50	0.000
1.000	1.000	175.3	0.000	0.000	BNA3(3)_336_338_L_0					
85 D	35.44	-3.1314E-04	152.0	177.2	304.0	182.2	UL-RL	1.5089E+04	-14.70	0.000
1.000	1.000	177.2	0.000	0.000	BNA3(3)_336_338_L_0					
86 D	35.90	-3.4757E-04	155.0	178.5	307.0	184.0	UL-RL	1.5089E+04	-14.90	0.9999
1.000	1.000	179.5	0.000	0.000	BNA3(3)_336_338_L_0					
87 D	36.45	-3.8177E-04	157.0	179.2	309.0	185.2	UL-RL	1.5089E+04	-15.10	3.000
1.000	1.000	182.2	0.000	0.000	BNA3(3)_336_338_L_0					
88 D	36.99	-4.1582E-04	159.0	180.0	311.0	186.4	UL-RL	1.5089E+04	-15.30	5.000
1.000	1.000	185.0	0.000	0.000	BNA3(3)_336_338_L_0					
89 D	37.53	-4.4978E-04	161.0	180.6	313.0	187.7	UL-RL	1.5089E+04	-15.50	7.000
1.000	1.000	187.6	0.000	0.000	BNA3(3)_336_338_L_0					
90 D	38.06	-4.8368E-04	163.0	181.3	315.0	189.0	UL-RL	1.5089E+04	-15.70	9.000
1.000	1.000	190.3	0.000	0.000	BNA3(3)_336_338_L_0					
91 D	28.94	-5.1756E-04	165.0	182.0	317.0	190.3	UL-RL	1.5089E+04	-15.90	11.00
1.000	1.000	193.0	0.000	0.000	BNA3(3)_336_338_L_0					
92 D	9.714	-5.3451E-04	166.0	182.3	318.0	190.9	UL-RL	1.5089E+04	-16.00	12.00
1.000	1.000	194.3	0.000	0.000	BNA3(3)_336_338_L_0					

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|                PARATIE PLUS 2014 NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Sept23, 2015*                |
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|                NewProject.BaseDesignSection_25.Nominal_60                                                                              |
|                Exe Time :29 June 2020    17:22:00                                                                                          |
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New Project

STRESS RESULTS FOR GROUP NO. 3

WallElement_30 :
ELEMENT TYPE 2 NO.OF ELEMENTS. IN THIS GROUP 91
CURRENT TIME IS 5.0000

WALL2D ELEMENT

EL	TA	TB	MA	MB
1	-7.76168E-10	7.76168E-10	-7.64295E-11	-3.94898E-10
2	7.04460E-10	-7.04460E-10	3.79250E-10	-2.13976E-10
3	6.09262E-10	-6.09262E-10	3.30177E-10	-1.45231E-10
4	-8.42803E-10	8.42803E-10	9.85896E-11	-4.59590E-10
5	1.16376E-09	-1.16376E-09	4.72768E-10	-3.71070E-10
6	-4.51152E-10	4.51152E-10	4.13115E-10	-4.94243E-10
7	-4.13849E-10	4.13849E-10	3.78742E-10	-5.96525E-10
8	2.10207E-10	-2.10207E-10	5.53726E-10	-6.60606E-10
9	0.51633	-0.51633	7.51971E-10	0.10327
10	1.5347	-1.5347	-0.10327	0.41020
11	3.0551	-3.0551	-0.41020	1.0212
12	5.0776	-5.0776	-1.0212	2.0368
13	7.6022	-7.6022	-2.0368	3.5572
14	10.629	-10.629	-3.5572	5.6830
15	14.158	-14.158	-5.6830	8.5145
16	18.189	-18.189	-8.5145	12.152
17	22.722	-22.722	-12.152	16.697
18	27.757	-27.757	-16.697	22.248
19	33.294	-33.294	-22.248	28.907
20	39.333	-39.333	-28.907	36.773
21	42.883	-42.883	-36.773	41.062
22	-70.168	70.168	-41.062	27.028
23	-64.944	64.944	-27.028	14.039
24	-59.393	59.393	-14.039	2.1607
25	-53.515	53.515	-2.1607	-8.5423
26	-47.313	47.313	8.5423	-18.005
27	-40.787	40.787	18.005	-26.162
28	-33.938	33.938	26.162	-32.950
29	-26.769	26.769	32.950	-38.304
30	-19.282	19.282	38.304	-42.160
31	-11.479	11.479	42.160	-44.456
32	-3.3643	3.3643	44.456	-45.129
33	5.0598	-5.0598	45.129	-44.117
34	13.789	-13.789	44.117	-41.359
35	22.818	-22.818	41.359	-36.796
36	32.141	-32.141	36.796	-30.368
37	41.754	-41.754	30.368	-22.017
38	51.648	-51.648	22.017	-11.687
39	61.817	-61.817	11.687	0.67612
40	72.252	-72.252	-0.67612	15.127
41	82.944	-82.944	-15.127	31.715
42	-31.117	31.117	-31.715	25.492
43	-19.941	19.941	-25.492	21.504
44	-8.5388	8.5388	-21.504	19.796
45	3.0811	-3.0811	-19.796	20.412
46	14.911	-14.911	-20.412	23.395
47	26.944	-26.944	-23.395	28.783
48	35.274	-35.274	-28.783	35.838
49	40.316	-40.316	-35.838	43.901
50	42.064	-42.064	-43.901	52.314
51	40.587	-40.587	-52.314	60.432
52	36.303	-36.303	-60.432	67.692
53	30.660	-30.660	-67.692	73.824
54	25.372	-25.372	-73.824	78.899
55	20.429	-20.429	-78.899	82.984
56	15.817	-15.817	-82.984	86.148
57	11.526	-11.526	-86.148	88.453
58	7.5459	-7.5459	-88.453	89.962
59	3.8666	-3.8666	-89.962	90.735
60	0.47787	-0.47787	-90.735	90.831
61	-2.6306	2.6306	-90.831	90.305
62	-5.4693	5.4693	-90.305	89.211
63	-8.0484	8.0484	-89.211	87.601
64	-10.378	10.378	-87.601	85.526
65	-12.469	12.469	-85.526	83.032
66	-14.329	14.329	-83.032	80.166
67	-15.970	15.970	-80.166	76.972
68	-17.400	17.400	-76.972	73.492
69	-18.628	18.628	-73.492	69.766
70	-19.663	19.663	-69.766	65.834

71	-20.512	20.512	-65.834	61.732
72	-21.183	21.183	-61.732	57.495
73	-21.683	21.683	-57.495	53.158
74	-22.014	22.014	-53.158	48.756
75	-22.182	22.182	-48.756	44.319
76	-22.191	22.191	-44.319	39.881
77	-21.956	21.956	-39.881	35.490
78	-21.484	21.484	-35.490	31.193
79	-20.753	20.753	-31.193	27.042
80	-19.830	19.830	-27.042	23.076
81	-18.751	18.751	-23.076	19.326
82	-17.523	17.523	-19.326	15.822
83	-16.148	16.148	-15.822	12.592
84	-14.630	14.630	-12.592	9.6659
85	-12.970	12.970	-9.6659	7.0718
86	-11.171	11.171	-7.0718	4.8377
87	-9.2314	9.2314	-4.8377	2.9915
88	-7.1538	7.1538	-2.9915	1.5607
89	-4.9280	4.9280	-1.5607	0.57511
90	-2.5497	2.5497	-0.57511	6.51770E-02
91	-0.65171	0.65171	-6.51770E-02	-5.07798E-11

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|          PARATIE PLUS 2014 NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Sept23, 2015*          |
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|          NewProject.BaseDesignSection_25.Nominal_60                                                                                       |
|          Exe Time :29 June 2020      17:22:00                                                                                             |
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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 . 4

Tieback_341 :
 ELEMENT TYPE 6 NO.OF ELEMENTS. IN THIS GROUP 1
 C U R R E N T T I M E I S 5.0000

POST-TENSION 2D-BOUNDARY ELEMENT

	EL	FORCE	d0	EDISPL	pl. eps	K	-ve limit	+ve limit	
ANCHOR	1	116.72	-1.30158E-03	2.51802E-03	0.0000	1655.6	0.0000	0.0000	ELASTIC ORIGINAL YOUNG MODU-
LUS									

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|                PARATIE PLUS 2014 NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Sept23, 2015*                |
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|                NewProject.BaseDesignSection_25.Nominal_60                                                                              |
|                Exe Time :29 June 2020      17:22:00                                                                              |
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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 . 5

Tieback_342 :
ELEMENT TYPE 6 NO.OF ELEMENTS. IN THIS GROUP 1
C U R R E N T T I M E I S 5.0000

POST-TENSION 2D-BOUNDARY ELEMENT

EL	FORCE	d0	EDISPL	pl. eps	K	-ve limit	+ve limit		
ANCHOR	1	125.00	-9.92438E-04	-9.92438E-04	0.0000	0.0000	0.0000	0.0000	BORN NOW JUST ACTIVATED

ITER 0 RNORM = 0.000 RMNORM= 0.000
RINORM=0.2442E+06 RIMNOR=0.3684E+06
RENORM= 3829. REMNOR=0.3235E-18 RATIO =0.1252 TOLER =0.1000E-03 NOT CONVERGED
RFMAX = 125.0 RMMAX = 90.83
RTSMAL=0.1000E-02 RMSMAL=0.1000E-03
RDT =0.2442E+06 RDR =0.3684E+06
RATIOT=0.1252 RATIO= 0.000
MAX UN= 23.19 IEQ= 107 NODE 54 DOF 1 Y-DISPL.F
MIN UN=-.1381E-09 IEQ= 84 NODE 42 DOF 2 X-ROT. F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 2 RNORM = 0.000 RMNORM= 0.000
RINORM=0.2442E+06 RIMNOR=0.3684E+06
RENORM= 274.7 REMNOR=0.2339E-17 RATIO =0.3354E-01 TOLER =0.1000E-03 NOT CONVERGED
RFMAX = 125.0 RMMAX = 90.83
RTSMAL=0.1000E-02 RMSMAL=0.1000E-03
RDT =0.2442E+06 RDR =0.3684E+06
RATIOT=0.3354E-01 RATIO= 0.000
MAX UN= 4.054 IEQ= 45 NODE 23 DOF 1 Y-DISPL.F
MIN UN=-.1828E-08 IEQ= 113 NODE 57 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 3 RNORM = 0.000 RMNORM= 0.000
RINORM=0.2442E+06 RIMNOR=0.3684E+06
RENORM= 451.0 REMNOR=0.2824E-16 RATIO =0.4297E-01 TOLER =0.1000E-03 NOT CONVERGED
RFMAX = 125.0 RMMAX = 90.83
RTSMAL=0.1000E-02 RMSMAL=0.1000E-03
RDT =0.2442E+06 RDR =0.3684E+06
RATIOT=0.4297E-01 RATIO= 0.000
MAX UN= 10.64 IEQ= 111 NODE 56 DOF 1 Y-DISPL.F
MIN UN=-1.430 IEQ= 179 NODE 90 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 4 RNORM = 0.000 RMNORM= 0.000
RINORM=0.2442E+06 RIMNOR=0.3684E+06
RENORM= 16.89 REMNOR=0.1144E-16 RATIO =0.8316E-02 TOLER =0.1000E-03 NOT CONVERGED
RFMAX = 125.0 RMMAX = 90.83
RTSMAL=0.1000E-02 RMSMAL=0.1000E-03
RDT =0.2442E+06 RDR =0.3684E+06
RATIOT=0.8316E-02 RATIO= 0.000
MAX UN= 3.165 IEQ= 131 NODE 66 DOF 1 Y-DISPL.F
MIN UN=-.3986E-01 IEQ= 165 NODE 83 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 5 RNORM = 0.000 RMNORM= 0.000
RINORM=0.2442E+06 RIMNOR=0.3684E+06
RENORM=0.2537E-01 REMNOR=0.8823E-17 RATIO =0.3223E-03 TOLER =0.1000E-03 NOT CONVERGED
RFMAX = 125.0 RMMAX = 90.83
RTSMAL=0.1000E-02 RMSMAL=0.1000E-03
RDT =0.2442E+06 RDR =0.3684E+06
RATIOT=0.3223E-03 RATIO= 0.000
MAX UN=0.1559 IEQ= 137 NODE 69 DOF 1 Y-DISPL.F
MIN UN=-.2702E-01 IEQ= 167 NODE 84 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 6 RNORM = 0.000 RMNORM= 0.000
RINORM=0.2442E+06 RIMNOR=0.3684E+06
RENORM=0.2328E-14 REMNOR=0.9604E-17 RATIO =0.9764E-10 TOLER =0.1000E-03 CONVERGED !
RFMAX = 125.0 RMMAX = 90.83
RTSMAL=0.1000E-02 RMSMAL=0.1000E-03
RDT =0.2442E+06 RDR =0.3684E+06
RATIOT=0.9764E-10 RATIO= 0.000
MAX UN=0.1633E-07 IEQ= 41 NODE 21 DOF 1 Y-DISPL.F

MIN UN=-.1457E-07 IEQ= 5 NODE 3 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

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|                PARATIE PLUS 2014 NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Sept23, 2015*                |
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|                NewProject.BaseDesignSection_25.Nominal_60                                                                              |
|                Exe Time :29 June 2020    17:22:00                                                                                          |
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New Project
SOLUTION REACHED USING 6 ITERATIONS ON 40

PRINT OUT FOR TIME STEP 6 (AT TIME 6.000)

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

	Y-DISPL.F (02)	X-ROT. F (04)	(
1	4.4290533E-02	-3.3291054E-03	
2	4.3624712E-02	-3.3291054E-03	
3	4.2958892E-02	-3.3290978E-03	
4	4.2293075E-02	-3.3290599E-03	
5	4.1627272E-02	-3.3289538E-03	
6	4.0961501E-02	-3.3287264E-03	
7	4.0295794E-02	-3.3283094E-03	
8	3.9630195E-02	-3.3276196E-03	
9	3.8964771E-02	-3.3265583E-03	
10	3.8299605E-02	-3.3250119E-03	
11	3.7634807E-02	-3.3228514E-03	
12	3.6970514E-02	-3.3199329E-03	
13	3.6306895E-02	-3.3160970E-03	
14	3.5644149E-02	-3.3111696E-03	
15	3.4982513E-02	-3.3049610E-03	
16	3.4322264E-02	-3.2972665E-03	
17	3.3663720E-02	-3.2878662E-03	
18	3.3007247E-02	-3.2765252E-03	
19	3.2353256E-02	-3.2629933E-03	
20	3.1702213E-02	-3.2470050E-03	
21	3.1054636E-02	-3.2282798E-03	
22	3.0732325E-02	-3.2178230E-03	
23	3.0090865E-02	-3.1970902E-03	
24	2.9453371E-02	-3.1781347E-03	
25	2.8819503E-02	-3.1607924E-03	
26	2.8188958E-02	-3.1448906E-03	
27	2.7561463E-02	-3.1302487E-03	
28	2.6936787E-02	-3.1166776E-03	
29	2.6314734E-02	-3.1039799E-03	
30	2.5695150E-02	-3.0919499E-03	
31	2.5077924E-02	-3.0803739E-03	
32	2.4462985E-02	-3.0690294E-03	
33	2.3850312E-02	-3.0576861E-03	
34	2.3239927E-02	-3.0461051E-03	
35	2.2631902E-02	-3.0340393E-03	
36	2.2026360E-02	-3.0212334E-03	
37	2.1423479E-02	-3.0074238E-03	
38	2.0823479E-02	-2.9923383E-03	
39	2.0226647E-02	-2.9756967E-03	
40	1.9633323E-02	-2.9572105E-03	
41	1.9043906E-02	-2.9365828E-03	
42	1.8458850E-02	-2.9135084E-03	
43	1.7878524E-02	-2.8900634E-03	
44	1.7302712E-02	-2.8683156E-03	
45	1.6731109E-02	-2.8479348E-03	
46	1.6163472E-02	-2.8285826E-03	
47	1.5599631E-02	-2.8099125E-03	
48	1.5039485E-02	-2.7915693E-03	
49	1.4483006E-02	-2.7731900E-03	
50	1.3930239E-02	-2.7544029E-03	
51	1.3381300E-02	-2.7348280E-03	
52	1.2836386E-02	-2.7140772E-03	
53	1.2295774E-02	-2.6917540E-03	
54	1.1759817E-02	-2.6674536E-03	
55	1.1228952E-02	-2.6407628E-03	
56	1.0703693E-02	-2.6113457E-03	
57	1.0184609E-02	-2.5789967E-03	
58	9.6722997E-03	-2.5436087E-03	
59	9.1673711E-03	-2.5051723E-03	
60	8.6704280E-03	-2.4637768E-03	
61	8.1820451E-03	-2.4196098E-03	
62	7.7027427E-03	-2.3729562E-03	
63	7.2329955E-03	-2.3242014E-03	
64	6.7731721E-03	-2.2737969E-03	
65	6.3235557E-03	-2.2222080E-03	
66	5.8843377E-03	-2.1698881E-03	
67	5.4556198E-03	-2.1172791E-03	
68	5.0374166E-03	-2.0648120E-03	
69	4.6296575E-03	-2.0129072E-03	
70	4.2321889E-03	-1.9619746E-03	
71	3.8447962E-03	-1.9124022E-03	
72	3.4671341E-03	-1.8645304E-03	
73	3.0988503E-03	-1.8186649E-03	
74	2.7395168E-03	-1.7750682E-03	

75 2.3886569E-03 -1.7339629E-03
76 2.0457533E-03 -1.6955328E-03
77 1.7102557E-03 -1.6599236E-03
78 1.3815863E-03 -1.6272786E-03
79 1.0591378E-03 -1.5977312E-03
80 7.4228183E-04 -1.5713632E-03
81 4.3037849E-04 -1.5482061E-03
82 1.2278659E-04 -1.5282412E-03
83 -1.8112598E-04 -1.5113964E-03
84 -4.8197159E-04 -1.4975461E-03
85 -7.8033241E-04 -1.4865158E-03
86 -1.0767513E-03 -1.4780871E-03
87 -1.3717232E-03 -1.4719972E-03
88 -1.6656854E-03 -1.4679351E-03
89 -1.9590084E-03 -1.4655405E-03
90 -2.2519854E-03 -1.4644023E-03
91 -2.5448222E-03 -1.4640571E-03
92 -2.6912413E-03 -1.4640394E-03

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|                PARATIE PLUS 2014 NLS ENGINE RELEASE  2016  FULL VERSION  *Build date: Sept23, 2015*                |
|                                                                                                                                            |
|                NewProject.BaseDesignSection_25.Nominal_60                                                                              |
|                Exe Time :29 June 2020    17:22:00                                                                                          |
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New Project

STRESS RESULTS FOR GROUP NO. 1

0_L :
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 92
CURRENT TIME IS 6.0000

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 LAYER	MAX-H-P	STATE	STIFFNESS	Z-LEVEL	PORE	E FAC-
1 D	0.000	-4.4291E-02	0.000	0.000	0.000	0.000	ACTIVE	0.000	2.000	0.000	
1.000	1.000	0.000	0.000	0.000	FRANA_334_8_L_0						
2 D	0.4880	-4.3625E-02	4.000	2.440	4.000	3.032	ACTIVE	0.000	1.800	0.000	
1.000	1.000	2.440	0.000	0.000	FRANA_334_8_L_0						
3 D	0.9760	-4.2959E-02	8.000	4.880	8.000	6.064	ACTIVE	0.000	1.600	0.000	
1.000	1.000	4.880	0.000	0.000	FRANA_334_8_L_0						
4 D	1.464	-4.2293E-02	12.00	7.320	12.00	9.096	ACTIVE	0.000	1.400	0.000	
1.000	1.000	7.320	0.000	0.000	FRANA_334_8_L_0						
5 D	1.952	-4.1627E-02	16.00	9.760	16.00	12.13	ACTIVE	0.000	1.200	0.000	
1.000	1.000	9.760	0.000	0.000	FRANA_334_8_L_0						
6 D	2.440	-4.0962E-02	20.00	12.20	20.00	15.16	ACTIVE	0.000	1.000	0.000	
1.000	1.000	12.20	0.000	0.000	FRANA_334_8_L_0						
7 D	2.928	-4.0296E-02	24.00	14.64	24.00	18.19	ACTIVE	0.000	0.8000	0.000	
1.000	1.000	14.64	0.000	0.000	FRANA_334_8_L_0						
8 D	3.416	-3.9630E-02	28.00	17.08	28.00	21.22	ACTIVE	0.000	0.6000	0.000	
1.000	1.000	17.08	0.000	0.000	FRANA_334_8_L_0						
9 D	3.904	-3.8965E-02	32.00	19.52	32.00	25.32	ACTIVE	0.000	0.4000	0.000	
1.000	1.000	19.52	0.000	0.000	FRANA_334_8_L_0						
10 D	4.392	-3.8300E-02	36.00	21.96	36.00	27.83	ACTIVE	0.000	0.2000	0.000	
1.000	1.000	21.96	0.000	0.000	FRANA_334_8_L_0						
11 D	4.880	-3.7635E-02	40.00	24.40	40.00	30.34	ACTIVE	0.000	-1.4901E-07	0.000	
1.000	1.000	24.40	0.000	0.000	FRANA_334_8_L_0						
12 D	5.368	-3.6971E-02	44.00	26.84	44.00	32.85	ACTIVE	0.000	-0.2000	0.000	
1.000	1.000	26.84	0.000	0.000	FRANA_334_8_L_0						
13 D	5.857	-3.6307E-02	48.00	29.28	48.00	35.36	ACTIVE	0.000	-0.4000	0.000	
1.000	1.000	29.28	0.000	0.000	FRANA_334_8_L_0						
14 D	6.345	-3.5644E-02	52.01	31.72	52.01	37.87	ACTIVE	0.000	-0.6000	0.000	
1.000	1.000	31.72	0.000	0.000	FRANA_334_8_L_0						
15 D	6.833	-3.4983E-02	56.01	34.16	56.01	40.38	ACTIVE	0.000	-0.8000	0.000	
1.000	1.000	34.16	0.000	0.000	FRANA_334_8_L_0						
16 D	7.321	-3.4322E-02	60.01	36.61	60.01	42.89	ACTIVE	0.000	-1.000	0.000	
1.000	1.000	36.61	0.000	0.000	FRANA_334_8_L_0						
17 D	7.809	-3.3664E-02	64.01	39.05	64.01	45.41	ACTIVE	0.000	-1.200	0.000	
1.000	1.000	39.05	0.000	0.000	FRANA_334_8_L_0						
18 D	8.298	-3.3007E-02	68.01	41.49	68.01	47.92	ACTIVE	0.000	-1.400	0.000	
1.000	1.000	41.49	0.000	0.000	FRANA_334_8_L_0						
19 D	8.786	-3.2353E-02	72.02	43.93	72.02	50.43	ACTIVE	0.000	-1.600	0.000	
1.000	1.000	43.93	0.000	0.000	FRANA_334_8_L_0						
20 D	9.274	-3.1702E-02	76.02	46.37	76.02	52.94	ACTIVE	0.000	-1.800	0.000	
1.000	1.000	46.37	0.000	0.000	FRANA_334_8_L_0						
21 D	3.564	-3.1055E-02	80.02	23.76	80.02	42.93	ACTIVE	0.000	-2.000	0.000	
1.000	1.000	23.76	0.000	0.000	BNA3(2)_335_337_L_0						
22 D	3.664	-3.0732E-02	82.02	24.43	82.02	43.09	ACTIVE	0.000	-2.100	0.000	
1.000	1.000	24.43	0.000	0.000	BNA3(2)_335_337_L_0						
23 D	5.152	-3.0091E-02	86.03	25.76	86.03	43.42	ACTIVE	0.000	-2.300	0.000	
1.000	1.000	25.76	0.000	0.000	BNA3(2)_335_337_L_0						
24 D	5.419	-2.9453E-02	90.03	27.09	90.03	43.74	ACTIVE	0.000	-2.500	0.000	
1.000	1.000	27.09	0.000	0.000	BNA3(2)_335_337_L_0						
25 D	5.686	-2.8820E-02	94.03	28.43	94.03	44.39	ACTIVE	0.000	-2.700	0.000	
1.000	1.000	28.43	0.000	0.000	BNA3(2)_335_337_L_0						
26 D	5.952	-2.8189E-02	98.04	29.76	98.04	46.01	ACTIVE	0.000	-2.900	0.000	
1.000	1.000	29.76	0.000	0.000	BNA3(2)_335_337_L_0						
27 D	6.219	-2.7561E-02	102.0	31.10	102.0	47.63	ACTIVE	0.000	-3.100	0.000	
1.000	1.000	31.10	0.000	0.000	BNA3(2)_335_337_L_0						
28 D	6.486	-2.6937E-02	106.0	32.43	106.0	49.24	ACTIVE	0.000	-3.300	0.000	
1.000	1.000	32.43	0.000	0.000	BNA3(2)_335_337_L_0						
29 D	6.753	-2.6315E-02	110.1	33.76	110.1	50.84	ACTIVE	0.000	-3.500	0.000	
1.000	1.000	33.76	0.000	0.000	BNA3(2)_335_337_L_0						
30 D	7.019	-2.5695E-02	114.1	35.10	114.1	52.44	ACTIVE	0.000	-3.700	0.000	
1.000	1.000	35.10	0.000	0.000	BNA3(2)_335_337_L_0						
31 D	7.286	-2.5078E-02	118.1	36.43	118.1	54.01	ACTIVE	0.000	-3.900	0.000	
1.000	1.000	36.43	0.000	0.000	BNA3(2)_335_337_L_0						
32 D	7.553	-2.4463E-02	122.1	37.77	122.1	55.58	ACTIVE	0.000	-4.100	0.000	
1.000	1.000	37.77	0.000	0.000	BNA3(2)_335_337_L_0						
33 D	7.820	-2.3850E-02	126.1	39.10	126.1	57.12	ACTIVE	0.000	-4.300	0.000	
1.000	1.000	39.10	0.000	0.000	BNA3(2)_335_337_L_0						

34 D	8.087	-2.3240E-02	130.1	40.43	130.1	58.64	ACTIVE	0.000	-4.500	0.000
1.000	1.000	40.43	0.000	0.000	BNA3(2)_335_337_L_0					
35 D	8.354	-2.2632E-02	134.1	41.77	134.1	60.14	ACTIVE	0.000	-4.700	0.000
1.000	1.000	41.77	0.000	0.000	BNA3(2)_335_337_L_0					
36 D	8.621	-2.2026E-02	138.1	43.10	138.1	61.62	ACTIVE	0.000	-4.900	0.000
1.000	1.000	43.10	0.000	0.000	BNA3(2)_335_337_L_0					
37 D	8.888	-2.1423E-02	142.1	44.44	142.1	63.06	ACTIVE	0.000	-5.100	0.000
1.000	1.000	44.44	0.000	0.000	BNA3(2)_335_337_L_0					
38 D	9.155	-2.0823E-02	146.1	45.77	146.1	64.47	ACTIVE	0.000	-5.300	0.000
1.000	1.000	45.77	0.000	0.000	BNA3(2)_335_337_L_0					
39 D	9.422	-2.0227E-02	150.1	47.11	150.1	65.84	ACTIVE	0.000	-5.500	0.000
1.000	1.000	47.11	0.000	0.000	BNA3(2)_335_337_L_0					
40 D	9.689	-1.9633E-02	154.1	48.44	154.1	67.18	ACTIVE	0.000	-5.700	0.000
1.000	1.000	48.44	0.000	0.000	BNA3(2)_335_337_L_0					
41 D	9.956	-1.9044E-02	158.2	49.78	158.2	68.46	ACTIVE	0.000	-5.900	0.000
1.000	1.000	49.78	0.000	0.000	BNA3(2)_335_337_L_0					
42 D	10.22	-1.8459E-02	162.2	51.12	162.2	70.17	ACTIVE	0.000	-6.100	0.000
1.000	1.000	51.12	0.000	0.000	BNA3(2)_335_337_L_0					
43 D	10.49	-1.7879E-02	166.2	52.45	166.2	72.25	ACTIVE	0.000	-6.300	0.000
1.000	1.000	52.45	0.000	0.000	BNA3(2)_335_337_L_0					
44 D	10.76	-1.7303E-02	170.2	53.79	170.2	74.34	ACTIVE	0.000	-6.500	0.000
1.000	1.000	53.79	0.000	0.000	BNA3(2)_335_337_L_0					
45 D	11.02	-1.6731E-02	174.2	55.12	174.2	76.42	ACTIVE	0.000	-6.700	0.000
1.000	1.000	55.12	0.000	0.000	BNA3(2)_335_337_L_0					
46 D	11.29	-1.6163E-02	178.2	56.46	178.2	78.51	ACTIVE	0.000	-6.900	0.000
1.000	1.000	56.46	0.000	0.000	BNA3(2)_335_337_L_0					
47 D	11.56	-1.5600E-02	182.2	57.80	182.2	80.59	ACTIVE	0.000	-7.100	0.000
1.000	1.000	57.80	0.000	0.000	BNA3(2)_335_337_L_0					
48 D	11.83	-1.5039E-02	186.2	59.13	186.2	82.67	ACTIVE	0.000	-7.300	0.000
1.000	1.000	59.13	0.000	0.000	BNA3(2)_335_337_L_0					
49 D	12.09	-1.4483E-02	190.3	60.47	190.3	84.75	ACTIVE	0.000	-7.500	0.000
1.000	1.000	60.47	0.000	0.000	BNA3(2)_335_337_L_0					
50 D	12.36	-1.3930E-02	194.3	61.81	194.3	87.22	ACTIVE	0.000	-7.700	0.000
1.000	1.000	61.81	0.000	0.000	BNA3(2)_335_337_L_0					
51 D	12.63	-1.3381E-02	198.3	63.14	198.3	89.65	ACTIVE	0.000	-7.900	0.000
1.000	1.000	63.14	0.000	0.000	BNA3(2)_335_337_L_0					
52 D	12.90	-1.2836E-02	202.3	64.48	202.3	92.04	ACTIVE	0.000	-8.100	0.000
1.000	1.000	64.48	0.000	0.000	BNA3(2)_335_337_L_0					
53 D	13.16	-1.2296E-02	206.3	65.82	206.3	94.39	ACTIVE	0.000	-8.300	0.000
1.000	1.000	65.82	0.000	0.000	BNA3(2)_335_337_L_0					
54 D	13.43	-1.1760E-02	210.3	67.16	210.3	96.69	ACTIVE	0.000	-8.500	0.000
1.000	1.000	67.16	0.000	0.000	BNA3(2)_335_337_L_0					
55 D	13.70	-1.1229E-02	214.4	68.50	214.4	98.96	ACTIVE	0.000	-8.700	0.000
1.000	1.000	68.50	0.000	0.000	BNA3(2)_335_337_L_0					
56 D	13.97	-1.0704E-02	218.4	69.83	218.4	101.2	ACTIVE	0.000	-8.900	0.000
1.000	1.000	69.83	0.000	0.000	BNA3(2)_335_337_L_0					
57 D	14.23	-1.0185E-02	222.4	71.17	222.4	103.5	ACTIVE	0.000	-9.100	0.000
1.000	1.000	71.17	0.000	0.000	BNA3(2)_335_337_L_0					
58 D	14.50	-9.6723E-03	226.4	72.51	226.4	105.7	ACTIVE	0.000	-9.300	0.000
1.000	1.000	72.51	0.000	0.000	BNA3(2)_335_337_L_0					
59 D	14.77	-9.1674E-03	230.4	73.85	230.4	107.9	ACTIVE	0.000	-9.500	0.000
1.000	1.000	73.85	0.000	0.000	BNA3(2)_335_337_L_0					
60 D	15.04	-8.6704E-03	234.5	75.19	234.5	110.0	ACTIVE	0.000	-9.700	0.000
1.000	1.000	75.19	0.000	0.000	BNA3(2)_335_337_L_0					
61 D	15.31	-8.1820E-03	238.5	76.53	238.5	112.2	ACTIVE	0.000	-9.900	0.000
1.000	1.000	76.53	0.000	0.000	BNA3(2)_335_337_L_0					
62 D	15.57	-7.7027E-03	242.5	77.87	242.5	115.2	ACTIVE	0.000	-10.10	0.000
1.000	1.000	77.87	0.000	0.000	BNA3(2)_335_337_L_0					
63 D	15.84	-7.2330E-03	246.5	79.21	246.5	118.2	ACTIVE	0.000	-10.30	0.000
1.000	1.000	79.21	0.000	0.000	BNA3(2)_335_337_L_0					
64 D	16.11	-6.7732E-03	250.5	80.54	250.5	121.2	ACTIVE	0.000	-10.50	0.000
1.000	1.000	80.54	0.000	0.000	BNA3(2)_335_337_L_0					
65 D	16.38	-6.3236E-03	254.6	81.88	254.6	124.2	ACTIVE	0.000	-10.70	0.000
1.000	1.000	81.88	0.000	0.000	BNA3(2)_335_337_L_0					
66 D	16.64	-5.8843E-03	258.6	83.22	258.6	127.1	ACTIVE	0.000	-10.90	0.000
1.000	1.000	83.22	0.000	0.000	BNA3(2)_335_337_L_0					
67 D	16.91	-5.4556E-03	262.6	84.56	262.6	130.1	ACTIVE	0.000	-11.10	0.000
1.000	1.000	84.56	0.000	0.000	BNA3(2)_335_337_L_0					
68 D	17.18	-5.0374E-03	266.6	85.90	266.6	132.9	ACTIVE	0.000	-11.30	0.000
1.000	1.000	85.90	0.000	0.000	BNA3(2)_335_337_L_0					
69 D	17.45	-4.6297E-03	270.7	87.24	270.7	135.8	ACTIVE	0.000	-11.50	0.000
1.000	1.000	87.24	0.000	0.000	BNA3(2)_335_337_L_0					
70 D	18.64	-4.2322E-03	274.7	93.22	274.7	138.6	UL-RL	1.1547E+04	-11.70	0.000
1.000	1.000	93.22	0.000	0.000	BNA3(2)_335_337_L_0					
71 D	19.98	-3.8448E-03	278.7	99.88	278.7	141.4	UL-RL	1.1547E+04	-11.90	0.000
1.000	1.000	99.88	0.000	0.000	BNA3(2)_335_337_L_0					
72 D	21.29	-3.4671E-03	282.7	106.4	282.7	144.1	UL-RL	1.1547E+04	-12.10	0.000
1.000	1.000	106.4	0.000	0.000	BNA3(2)_335_337_L_0					
73 D	22.57	-3.0989E-03	286.8	112.9	286.8	146.9	UL-RL	1.1547E+04	-12.30	0.000
1.000	1.000	112.9	0.000	0.000	BNA3(2)_335_337_L_0					
74 D	23.84	-2.7395E-03	290.8	119.2	290.8	149.6	UL-RL	1.1547E+04	-12.50	0.000
1.000	1.000	119.2	0.000	0.000	BNA3(2)_335_337_L_0					
75 D	25.08	-2.3887E-03	294.8	125.4	294.8	152.2	UL-RL	1.1547E+04	-12.70	0.000
1.000	1.000	125.4	0.000	0.000	BNA3(2)_335_337_L_0					
76 D	26.31	-2.0458E-03	298.8	131.5	298.8	154.9	UL-RL	1.1547E+04	-12.90	0.000
1.000	1.000	131.5	0.000	0.000	BNA3(2)_335_337_L_0					
77 D	30.73	-1.7103E-03	302.9	153.7	302.9	180.8	UL-RL	1.5697E+04	-13.10	0.000
1.000	1.000	153.7	0.000	0.000	BNA3(3)_336_338_L_0					
78 D	32.27	-1.3816E-03	306.9	161.3	306.9	183.9	UL-RL	1.5697E+04	-13.30	0.000
1.000	1.000	161.3	0.000	0.000	BNA3(3)_336_338_L_0					
79 D	33.78	-1.0591E-03	310.9	168.9	310.9	187.0	UL-RL	1.5697E+04	-13.50	0.000
1.000	1.000	168.9	0.000	0.000	BNA3(3)_336_338_L_0					

80 D	35.21	-7.4228E-04	315.0	176.1	315.0	189.8	UL-RL	1.5697E+04	-13.70	0.000
1.000	1.000	176.1	0.000	0.000	BNA3(3)_336_338_L_0					
81 D	36.60	-4.3038E-04	319.0	183.0	319.0	192.5	UL-RL	1.5697E+04	-13.90	0.000
1.000	1.000	183.0	0.000	0.000	BNA3(3)_336_338_L_0					
82 D	37.97	-1.2279E-04	323.0	189.9	323.0	195.1	UL-RL	1.5697E+04	-14.10	0.000
1.000	1.000	189.9	0.000	0.000	BNA3(3)_336_338_L_0					
83 D	39.33	1.8113E-04	327.1	196.7	327.1	197.7	UL-RL	1.5697E+04	-14.30	0.000
1.000	1.000	196.7	0.000	0.000	BNA3(3)_336_338_L_0					
84 D	40.42	4.8197E-04	331.1	202.1	331.1	202.5	UL-RL	1.5697E+04	-14.50	0.000
1.000	1.000	202.1	0.000	0.000	BNA3(3)_336_338_L_0					
85 D	41.46	7.8033E-04	335.1	207.3	335.1	207.5	UL-RL	1.5697E+04	-14.70	0.000
1.000	1.000	207.3	0.000	0.000	BNA3(3)_336_338_L_0					
86 D	42.50	1.0768E-03	339.2	212.5	339.2	212.6	UL-RL	1.5697E+04	-14.90	0.000
1.000	1.000	212.5	0.000	0.000	BNA3(3)_336_338_L_0					
87 D	43.54	1.3717E-03	343.2	217.7	343.2	217.7	V-C	9811.	-15.10	0.000
1.000	1.000	217.7	0.000	0.000	BNA3(3)_336_338_L_0					
88 D	44.56	1.6657E-03	347.2	222.8	347.2	222.8	V-C	9811.	-15.30	0.000
1.000	1.000	222.8	0.000	0.000	BNA3(3)_336_338_L_0					
89 D	45.59	1.9590E-03	351.2	227.9	351.2	227.9	V-C	9811.	-15.50	0.000
1.000	1.000	227.9	0.000	0.000	BNA3(3)_336_338_L_0					
90 D	46.61	2.2520E-03	355.3	233.0	355.3	233.0	V-C	9811.	-15.70	0.000
1.000	1.000	233.0	0.000	0.000	BNA3(3)_336_338_L_0					
91 D	35.72	2.5448E-03	359.3	238.2	359.3	238.2	V-C	9811.	-15.90	0.000
1.000	1.000	238.2	0.000	0.000	BNA3(3)_336_338_L_0					
92 D	12.04	2.6912E-03	361.3	240.7	361.3	240.7	V-C	9811.	-16.00	0.000
1.000	1.000	240.7	0.000	0.000	BNA3(3)_336_338_L_0					

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|                PARATIE PLUS 2014 NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Sept23, 2015*                |
|                                                                                                                    |
|                NewProject.BaseDesignSection_25.Nominal_60                                                         |
|                Exe Time :29 June 2020      17:22:00                                                                |
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New Project

STRESS RESULTS FOR GROUP NO. 2

O_R :
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 92
CURRENT TIME IS 6.0000

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 LAYER	MAX-H-P	STATE	STIFFNESS	Z-LEVEL	PORE	E FAC-
1	0.000	--	--	--	--	--	REMOVED	--	2.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
2	0.000	--	--	--	--	--	REMOVED	--	1.800	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
3	0.000	--	--	--	--	--	REMOVED	--	1.600	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
4	0.000	--	--	--	--	--	REMOVED	--	1.400	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
5	0.000	--	--	--	--	--	REMOVED	--	1.200	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
6	0.000	--	--	--	--	--	REMOVED	--	1.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
7	0.000	--	--	--	--	--	REMOVED	--	0.8000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
8	0.000	--	--	--	--	--	REMOVED	--	0.6000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
9	0.000	--	--	--	--	--	REMOVED	--	0.4000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
10	0.000	--	--	--	--	--	REMOVED	--	0.2000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
11	0.000	--	--	--	--	--	REMOVED	--	-1.4901E-07	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
12	0.000	--	--	--	--	--	REMOVED	--	-0.2000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
13	0.000	--	--	--	--	--	REMOVED	--	-0.4000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
14	0.000	--	--	--	--	--	REMOVED	--	-0.6000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
15	0.000	--	--	--	--	--	REMOVED	--	-0.8000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
16	0.000	--	--	--	--	--	REMOVED	--	-1.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
17	0.000	--	--	--	--	--	REMOVED	--	-1.200	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
18	0.000	--	--	--	--	--	REMOVED	--	-1.400	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
19	0.000	--	--	--	--	--	REMOVED	--	-1.600	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
20	0.000	--	--	--	--	--	REMOVED	--	-1.800	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
21	0.000	--	--	--	--	--	REMOVED	--	-2.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
22	0.000	--	--	--	--	--	REMOVED	--	-2.100	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
23	0.000	--	--	--	--	--	REMOVED	--	-2.300	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
24	0.000	--	--	--	--	--	REMOVED	--	-2.500	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
25	0.000	--	--	--	--	--	REMOVED	--	-2.700	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
26	0.000	--	--	--	--	--	REMOVED	--	-2.900	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
27	0.000	--	--	--	--	--	REMOVED	--	-3.100	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
28	0.000	--	--	--	--	--	REMOVED	--	-3.300	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
29	0.000	--	--	--	--	--	REMOVED	--	-3.500	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
30	0.000	--	--	--	--	--	REMOVED	--	-3.700	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
31	0.000	--	--	--	--	--	REMOVED	--	-3.900	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
32	0.000	--	--	--	--	--	REMOVED	--	-4.100	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
33	0.000	--	--	--	--	--	REMOVED	--	-4.300	0.000	
1.000	1.000	0.000	0.000	0.000	not available						

34	0.000	--	--	--	--	--	REMOVED	--	-4.500	0.000
1.000	1.000	0.000	0.000	0.000	0.000	not available				
35	0.000	--	--	--	--	--	REMOVED	--	-4.700	0.000
1.000	1.000	0.000	0.000	0.000	0.000	not available				
36	0.000	--	--	--	--	--	REMOVED	--	-4.900	0.000
1.000	1.000	0.000	0.000	0.000	0.000	not available				
37	0.000	--	--	--	--	--	REMOVED	--	-5.100	0.000
1.000	1.000	0.000	0.000	0.000	0.000	not available				
38	0.000	--	--	--	--	--	REMOVED	--	-5.300	0.000
1.000	1.000	0.000	0.000	0.000	0.000	not available				
39	0.000	--	--	--	--	--	REMOVED	--	-5.500	0.000
1.000	1.000	0.000	0.000	0.000	0.000	not available				
40	0.000	--	--	--	--	--	REMOVED	--	-5.700	0.000
1.000	1.000	0.000	0.000	0.000	0.000	not available				
41	0.000	--	--	--	--	--	REMOVED	--	-5.900	0.000
1.000	1.000	0.000	0.000	0.000	0.000	not available				
42	0.000	--	--	--	--	--	REMOVED	--	-6.100	0.000
1.000	1.000	0.000	0.000	0.000	0.000	not available				
43	0.000	--	--	--	--	--	REMOVED	--	-6.300	0.000
1.000	1.000	0.000	0.000	0.000	0.000	not available				
44	0.000	--	--	--	--	--	REMOVED	--	-6.500	0.000
1.000	1.000	0.000	0.000	0.000	0.000	not available				
45	0.000	--	--	--	--	--	REMOVED	--	-6.700	0.000
1.000	1.000	0.000	0.000	0.000	0.000	not available				
46	0.000	--	--	--	--	--	REMOVED	--	-6.900	0.000
1.000	1.000	0.000	0.000	0.000	0.000	not available				
47	0.000	--	--	--	--	--	REMOVED	--	-7.100	0.000
1.000	1.000	0.000	0.000	0.000	0.000	not available				
48	0.000	--	--	--	--	--	REMOVED	--	-7.300	0.000
1.000	1.000	0.000	0.000	0.000	0.000	not available				
49	0.000	--	--	--	--	--	REMOVED	--	-7.500	0.000
1.000	1.000	0.000	0.000	0.000	0.000	not available				
50	0.000	--	--	--	--	--	REMOVED	--	-7.700	0.000
1.000	1.000	0.000	0.000	0.000	0.000	not available				
51	0.000	--	--	--	--	--	REMOVED	--	-7.900	0.000
1.000	1.000	0.000	0.000	0.000	0.000	not available				
52	0.000	--	--	--	--	--	REMOVED	--	-8.100	0.000
1.000	1.000	0.000	0.000	0.000	0.000	not available				
53	0.000	--	--	--	--	--	REMOVED	--	-8.300	0.000
1.000	1.000	0.000	0.000	0.000	0.000	not available				
54	0.000	--	--	--	--	--	REMOVED	--	-8.500	0.000
1.000	1.000	0.000	0.000	0.000	0.000	not available				
55 D	5.501	1.1229E-02	4.000	27.51	184.0	108.6	PASSIVE	0.000	-8.700	0.000
1.000	1.000	27.51	0.000	0.000	BNA3(2)_335_337_L_0					
56 D	8.932	1.0704E-02	8.000	44.66	188.0	109.9	PASSIVE	0.000	-8.900	0.000
1.000	1.000	44.66	0.000	0.000	BNA3(2)_335_337_L_0					
57 D	12.36	1.0185E-02	12.00	61.81	192.0	111.3	PASSIVE	0.000	-9.100	0.000
1.000	1.000	61.81	0.000	0.000	BNA3(2)_335_337_L_0					
58 D	15.79	9.6723E-03	16.00	78.96	196.0	112.7	PASSIVE	0.000	-9.300	0.000
1.000	1.000	78.96	0.000	0.000	BNA3(2)_335_337_L_0					
59 D	19.22	9.1674E-03	20.00	96.11	200.0	114.1	PASSIVE	0.000	-9.500	0.000
1.000	1.000	96.11	0.000	0.000	BNA3(2)_335_337_L_0					
60 D	22.65	8.6704E-03	24.00	113.3	204.0	115.5	PASSIVE	0.000	-9.700	0.000
1.000	1.000	113.3	0.000	0.000	BNA3(2)_335_337_L_0					
61 D	26.08	8.1820E-03	28.00	130.4	208.0	130.4	PASSIVE	0.000	-9.900	0.000
1.000	1.000	130.4	0.000	0.000	BNA3(2)_335_337_L_0					
62 D	29.51	7.7027E-03	32.00	147.6	212.0	147.6	PASSIVE	0.000	-10.10	0.000
1.000	1.000	147.6	0.000	0.000	BNA3(2)_335_337_L_0					
63 D	31.01	7.2330E-03	36.00	155.0	216.0	155.0	V-C	5774.	-10.30	0.000
1.000	1.000	155.0	0.000	0.000	BNA3(2)_335_337_L_0					
64 D	30.89	6.7732E-03	40.00	154.5	220.0	154.5	V-C	5774.	-10.50	0.000
1.000	1.000	154.5	0.000	0.000	BNA3(2)_335_337_L_0					
65 D	30.78	6.3236E-03	44.00	153.9	224.0	153.9	V-C	5774.	-10.70	0.000
1.000	1.000	153.9	0.000	0.000	BNA3(2)_335_337_L_0					
66 D	30.69	5.8843E-03	48.00	153.5	228.0	153.5	V-C	5774.	-10.90	0.000
1.000	1.000	153.5	0.000	0.000	BNA3(2)_335_337_L_0					
67 D	30.61	5.4556E-03	52.00	153.0	232.0	153.0	V-C	5774.	-11.10	0.000
1.000	1.000	153.0	0.000	0.000	BNA3(2)_335_337_L_0					
68 D	30.54	5.0374E-03	56.00	152.7	236.0	152.7	V-C	5774.	-11.30	0.000
1.000	1.000	152.7	0.000	0.000	BNA3(2)_335_337_L_0					
69 D	30.48	4.6297E-03	60.00	152.4	240.0	152.4	V-C	5774.	-11.50	0.000
1.000	1.000	152.4	0.000	0.000	BNA3(2)_335_337_L_0					
70 D	30.44	4.2322E-03	64.00	152.2	244.0	152.2	V-C	5774.	-11.70	0.000
1.000	1.000	152.2	0.000	0.000	BNA3(2)_335_337_L_0					
71 D	30.40	3.8448E-03	68.00	152.0	248.0	152.0	V-C	5774.	-11.90	0.000
1.000	1.000	152.0	0.000	0.000	BNA3(2)_335_337_L_0					
72 D	30.38	3.4671E-03	72.00	151.9	252.0	151.9	V-C	5774.	-12.10	0.000
1.000	1.000	151.9	0.000	0.000	BNA3(2)_335_337_L_0					
73 D	30.37	3.0989E-03	76.00	151.9	256.0	151.9	V-C	5774.	-12.30	0.000
1.000	1.000	151.9	0.000	0.000	BNA3(2)_335_337_L_0					
74 D	30.37	2.7395E-03	80.00	151.8	260.0	151.8	V-C	5774.	-12.50	0.000
1.000	1.000	151.8	0.000	0.000	BNA3(2)_335_337_L_0					
75 D	30.38	2.3887E-03	84.00	151.9	264.0	151.9	V-C	5774.	-12.70	0.000
1.000	1.000	151.9	0.000	0.000	BNA3(2)_335_337_L_0					
76 D	30.40	2.0458E-03	88.00	152.0	268.0	152.0	V-C	5774.	-12.90	0.000
1.000	1.000	152.0	0.000	0.000	BNA3(2)_335_337_L_0					
77 D	35.87	1.7103E-03	92.00	179.3	272.0	179.3	V-C	9556.	-13.10	0.000
1.000	1.000	179.3	0.000	0.000	BNA3(3)_336_338_L_0					
78 D	35.72	1.3816E-03	96.00	178.6	276.0	178.6	V-C	9556.	-13.30	0.000
1.000	1.000	178.6	0.000	0.000	BNA3(3)_336_338_L_0					
79 D	35.58	1.0591E-03	100.0	177.9	280.0	177.9	V-C	9556.	-13.50	0.000
1.000	1.000	177.9	0.000	0.000	BNA3(3)_336_338_L_0					

80 D	35.45	7.4228E-04	104.0	177.3	284.0	177.3	V-C	9556.	-13.70	0.000
1.000	1.000	177.3	0.000	0.000	BNA3(3)_336_338_L_0					
81 D	35.15	4.3038E-04	108.0	175.8	288.0	178.2	UL-RL	1.5290E+04	-13.90	0.000
1.000	1.000	175.8	0.000	0.000	BNA3(3)_336_338_L_0					
82 D	34.79	1.2279E-04	112.0	173.9	292.0	179.8	UL-RL	1.5290E+04	-14.10	0.000
1.000	1.000	173.9	0.000	0.000	BNA3(3)_336_338_L_0					
83 D	34.43	-1.8113E-04	116.0	172.2	296.0	181.3	UL-RL	1.5290E+04	-14.30	0.000
1.000	1.000	172.2	0.000	0.000	BNA3(3)_336_338_L_0					
84 D	34.09	-4.8197E-04	120.0	170.4	300.0	182.9	UL-RL	1.5290E+04	-14.50	0.000
1.000	1.000	170.4	0.000	0.000	BNA3(3)_336_338_L_0					
85 D	33.75	-7.8033E-04	124.0	168.7	304.0	184.5	UL-RL	1.5290E+04	-14.70	0.000
1.000	1.000	168.7	0.000	0.000	BNA3(3)_336_338_L_0					
86 D	33.29	-1.0768E-03	128.0	166.5	307.0	185.5	UL-RL	1.5290E+04	-14.90	0.000
1.000	1.000	166.5	0.000	0.000	BNA3(3)_336_338_L_0					
87 D	32.73	-1.3717E-03	132.0	163.7	309.0	185.9	UL-RL	1.5290E+04	-15.10	0.000
1.000	1.000	163.7	0.000	0.000	BNA3(3)_336_338_L_0					
88 D	32.17	-1.6657E-03	136.0	160.9	311.0	186.4	UL-RL	1.5290E+04	-15.30	0.000
1.000	1.000	160.9	0.000	0.000	BNA3(3)_336_338_L_0					
89 D	31.51	-1.9590E-03	140.0	157.6	313.0	187.7	UL-RL	1.5290E+04	-15.50	0.000
1.000	1.000	157.6	0.000	0.000	BNA3(3)_336_338_L_0					
90 D	30.85	-2.2520E-03	144.0	154.3	315.0	189.0	UL-RL	1.5290E+04	-15.70	0.000
1.000	1.000	154.3	0.000	0.000	BNA3(3)_336_338_L_0					
91 D	22.64	-2.5448E-03	148.0	151.0	317.0	190.3	UL-RL	1.5290E+04	-15.90	0.000
1.000	1.000	151.0	0.000	0.000	BNA3(3)_336_338_L_0					
92 D	7.465	-2.6912E-03	150.0	149.3	318.0	190.9	UL-RL	1.5290E+04	-16.00	0.000
1.000	1.000	149.3	0.000	0.000	BNA3(3)_336_338_L_0					

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|                PARATIE PLUS 2014 NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Sept23, 2015*                |
|                                                                                                                                            |
|                NewProject.BaseDesignSection_25.Nominal_60                                                                              |
|                Exe Time :29 June 2020    17:22:00                                                                                          |
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New Project

STRESS RESULTS FOR GROUP NO. 3

WallElement_30 :
ELEMENT TYPE 2 NO.OF ELEMENTS. IN THIS GROUP 91
CURRENT TIME IS 6.0000

WALL2D ELEMENT

EL	TA	TB	MA	MB
1	-4.09438E-09	4.09438E-09	-4.09181E-10	-2.12752E-10
2	0.48800	-0.48800	-9.26697E-10	9.76001E-02
3	1.4640	-1.4640	-9.76001E-02	0.39040
4	2.9280	-2.9280	-0.39040	0.97600
5	4.8800	-4.8800	-0.97600	1.9520
6	7.3201	-7.3201	-1.9520	3.4160
7	10.248	-10.248	-3.4160	5.4657
8	13.664	-13.664	-5.4657	8.1985
9	17.568	-17.568	-8.1985	11.712
10	21.961	-21.961	-11.712	16.104
11	26.841	-26.841	-16.104	21.473
12	32.209	-32.209	-21.473	27.914
13	38.066	-38.066	-27.914	35.528
14	44.411	-44.411	-35.528	44.410
15	51.244	-51.244	-44.410	54.658
16	58.565	-58.565	-54.658	66.371
17	66.374	-66.374	-66.371	79.646
18	74.672	-74.672	-79.646	94.581
19	83.458	-83.458	-94.581	111.27
20	92.732	-92.732	-111.27	129.82
21	96.296	-96.296	-129.82	139.45
22	-59.785	59.785	-139.45	127.49
23	-54.632	54.632	-127.49	116.56
24	-49.213	49.213	-116.56	106.72
25	-43.528	43.528	-106.72	98.016
26	-37.576	37.576	-98.016	90.501
27	-31.357	31.357	-90.501	84.230
28	-24.871	24.871	-84.230	79.256
29	-18.118	18.118	-79.256	75.632
30	-11.099	11.099	-75.632	73.412
31	-3.8127	3.8127	-73.412	72.650
32	3.7403	-3.7403	-72.650	73.398
33	11.560	-11.560	-73.398	75.710
34	19.647	-19.647	-75.710	79.639
35	28.001	-28.001	-79.639	85.239
36	36.621	-36.621	-85.239	92.564
37	45.509	-45.509	-92.564	101.67
38	54.664	-54.664	-101.67	112.60
39	64.086	-64.086	-112.60	125.42
40	73.774	-73.774	-125.42	140.17
41	83.730	-83.730	-140.17	156.92
42	-59.871	59.871	-156.92	144.94
43	-49.381	49.381	-144.94	135.07
44	-38.623	38.623	-135.07	127.34
45	-27.598	27.598	-127.34	121.82
46	-16.306	16.306	-121.82	118.56
47	-4.7470	4.7470	-118.56	117.61
48	7.0798	-7.0798	-117.61	119.03
49	19.174	-19.174	-119.03	122.86
50	31.535	-31.535	-122.86	129.17
51	44.164	-44.164	-129.17	138.00
52	57.061	-57.061	-138.00	149.41
53	70.225	-70.225	-149.41	163.46
54	83.656	-83.656	-163.46	180.19
55	91.854	-91.854	-180.19	198.56
56	96.890	-96.890	-198.56	217.94
57	98.762	-98.762	-217.94	237.69
58	97.472	-97.472	-237.69	257.19
59	93.019	-93.019	-257.19	275.79
60	85.403	-85.403	-275.79	292.87
61	74.625	-74.625	-292.87	307.80
62	60.685	-60.685	-307.80	319.93
63	45.516	-45.516	-319.93	329.04
64	30.734	-30.734	-329.04	335.18
65	16.326	-16.326	-335.18	338.45
66	2.2799	-2.2799	-338.45	338.90
67	-11.417	11.417	-338.90	336.62
68	-24.776	24.776	-336.62	331.67
69	-37.810	37.810	-331.67	324.10
70	-49.604	49.604	-324.10	314.18

71	-60.032	60.032	-314.18	302.18
72	-69.128	69.128	-302.18	288.35
73	-76.927	76.927	-288.35	272.97
74	-83.459	83.459	-272.97	256.27
75	-88.756	88.756	-256.27	238.52
76	-92.844	92.844	-238.52	219.95
77	-97.981	97.981	-219.95	200.36
78	-101.43	101.43	-200.36	180.07
79	-103.24	103.24	-180.07	159.42
80	-103.47	103.47	-159.42	138.73
81	-102.02	102.02	-138.73	118.32
82	-98.836	98.836	-118.32	98.556
83	-93.937	93.937	-98.556	79.769
84	-87.603	87.603	-79.769	62.248
85	-79.884	79.884	-62.248	46.272
86	-70.674	70.674	-46.272	32.137
87	-59.868	59.868	-32.137	20.163
88	-47.477	47.477	-20.163	10.668
89	-33.405	33.405	-10.668	3.9869
90	-17.649	17.649	-3.9869	0.45706
91	-4.5701	4.5701	-0.45706	-2.31187E-10

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|          PARATIE PLUS 2014 NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Sept23, 2015*          |
|                                                                                                    |
|                               NewProject.BaseDesignSection_25.Nominal_60                            |
|                               Exe Time :29 June 2020      17:22:00                                |
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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 . 4

Tieback_341 :
ELEMENT TYPE 6 NO.OF ELEMENTS. IN THIS GROUP 1
C U R R E N T T I M E I S 6.0000

POST-TENSION 2D-BOUNDARY ELEMENT

	EL	FORCE	d0	EDISPL	pl. eps	K	-ve limit	+ve limit	
ANCHOR	1	159.75	-1.30158E-03	2.85028E-02	0.0000	1655.6	0.0000	0.0000	ELASTIC ORIGINAL YOUNG MODU-
LUS									

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|          PARATIE PLUS 2014 NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Sept23, 2015*          |
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|          NewProject.BaseDesignSection_25.Nominal_60                                                                                       |
|          Exe Time :29 June 2020      17:22:00                                                                                             |
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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 . 5

Tieback_342 :
ELEMENT TYPE 6 NO.OF ELEMENTS. IN THIS GROUP 1
C U R R E N T T I M E I S 6.0000

POST-TENSION 2D-BOUNDARY ELEMENT

	EL	FORCE	d0	EDISPL	pl. eps	K	-ve limit	+ve limit	
ANCHOR	1	153.82	-9.92438E-04	1.47594E-02	0.0000	1829.9	0.0000	0.0000	ELASTIC ORIGINAL YOUNG MODU-
LUS									

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|          PARATIE PLUS 2014 NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Sept23, 2015*          |
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|                                                                                                                                            |
|          NewProject.BaseDesignSection_25.Nominal_60          |
|          Exe Time :29 June 2020          17:22:00          |
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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	5
3	CONVERGENCE :YES	4
4	CONVERGENCE :YES	5
5	CONVERGENCE :YES	2
6	CONVERGENCE :YES	6

END OF PROCESS FOR PROBLEM

New Project
NONLINEAR SOLUTION CPU TIME 0.10 [sec]
DATABASE CREATION CPU TIME..... 0.21 [sec]



Report di Calcolo

Nome Progetto: New Project

Autore: Ingegnere

Jobname: \\SBS2011\Comm\424.01 - HIRPINIA\Ing\03. LAVORO\07 - GALL\GA - FINESTRE - IMBOCCHI\GA13 Finestra F7\PARATIA\sez1\SEZIONE 1 GEO Finestra F7 -Long_revD.pplus

Data: 29/06/2020 18:12:21

Design Section: Base Design Section

Sommario

Contenuto Sommario

Descrizione della Stratigrafia e degli Strati di Terreno

Tipo : HORIZONTAL

Quota : 2 m

OCR : 1

Tipo : HORIZONTAL

Quota : -2 m

OCR : 1

Tipo : HORIZONTAL

Quota : -13 m

OCR : 1

Tipo : HORIZONTAL

Quota : -18 m

OCR : 1

Strato di Terreno	Terreno	γ dry	γ sat	ϕ'	ϕ	ϕ_{cv}	ϕ_p	c'	Su	Modulo Elastico	Eu	Evc	Eur	Ah	Avexp	Pa	Rur/Rvc	Rvc	Ku	Kvc	Kur	
		kN/m ³	kN/m ³	°	°	°	°	kPa	kPa			kPa	kPa			kPa		kPa	kN/m ³	kN/m ³	kN/m ³	
1	FRANA	20	20	14				0		Constant		15000	24000									
2	BNA3(2)	20	20	24.8				2		Constant		50000	80000									
3	BNA3(3)	20	20	20.5				24		Constant		75000	120000									
4	BNA3(4)	20	20	32				5		Constant		100000	160000									

Descrizione Pareti

X : 0 m

Quota in alto : 2 m

Quota di fondo : -16 m

Muro di sinistra

Sezione : PALI_Fi1000/1200

Area equivalente : 0.654498469497874 m

Inerzia equivalente : 0.0409 m⁴/m

Materiale calcestruzzo : C25/30

Tipo sezione : Tangent

Spaziatura : 1.2 m

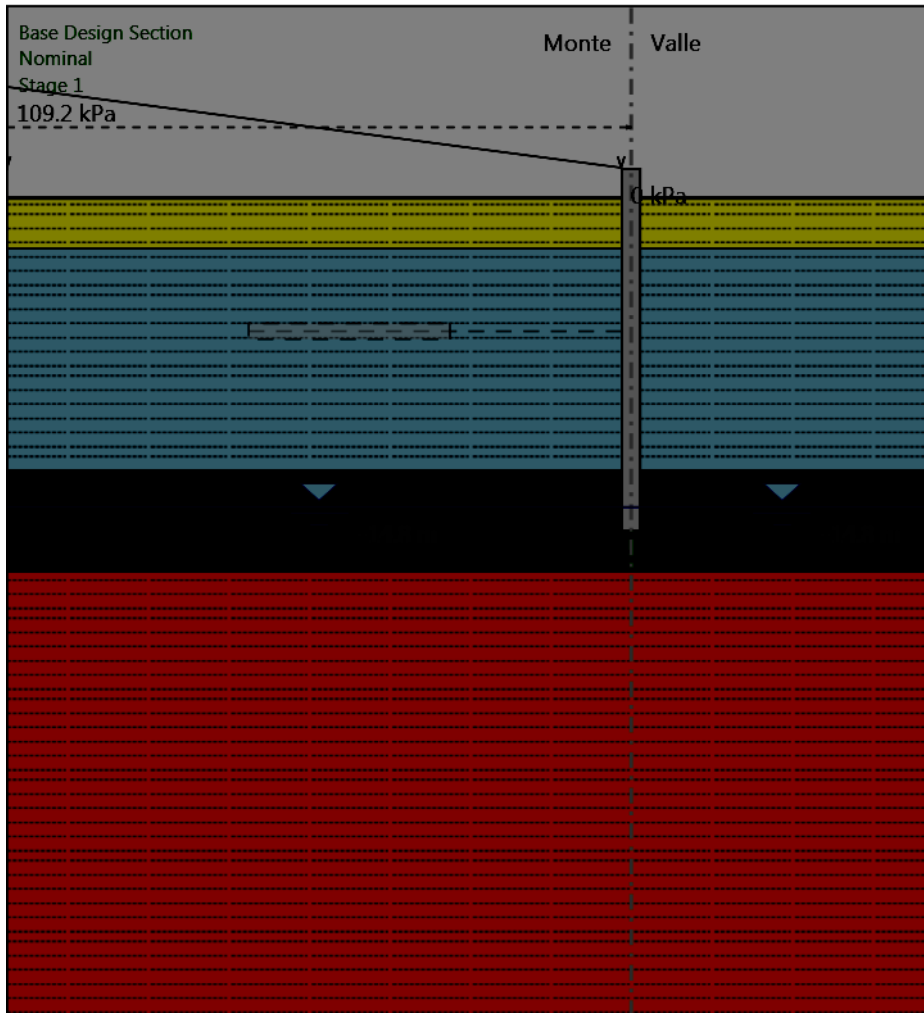
Diametro : 1 m

Efficacia : 1



Fasi di Calcolo

Stage 1



Stage 1

Scavo

Muro di sinistra

Lato monte : 0.5 m

Lato valle : 0.5 m

Linea di scavo di sinistra (Orizzontale)

0.5 m

Linea di scavo di destra (Orizzontale)

0.5 m

Falda acquifera

Falda di sinistra : -14.8 m

Falda di destra : -14.8 m

Carichi

Carico lineare in superficie : SurfaceSurcharge

X iniziale : -0.5 m

X finale : -31 m

Pressione iniziale : 0 kPa

Pressione finale : 109.2 kPa

Elementi strutturali

Paratia : WallElement

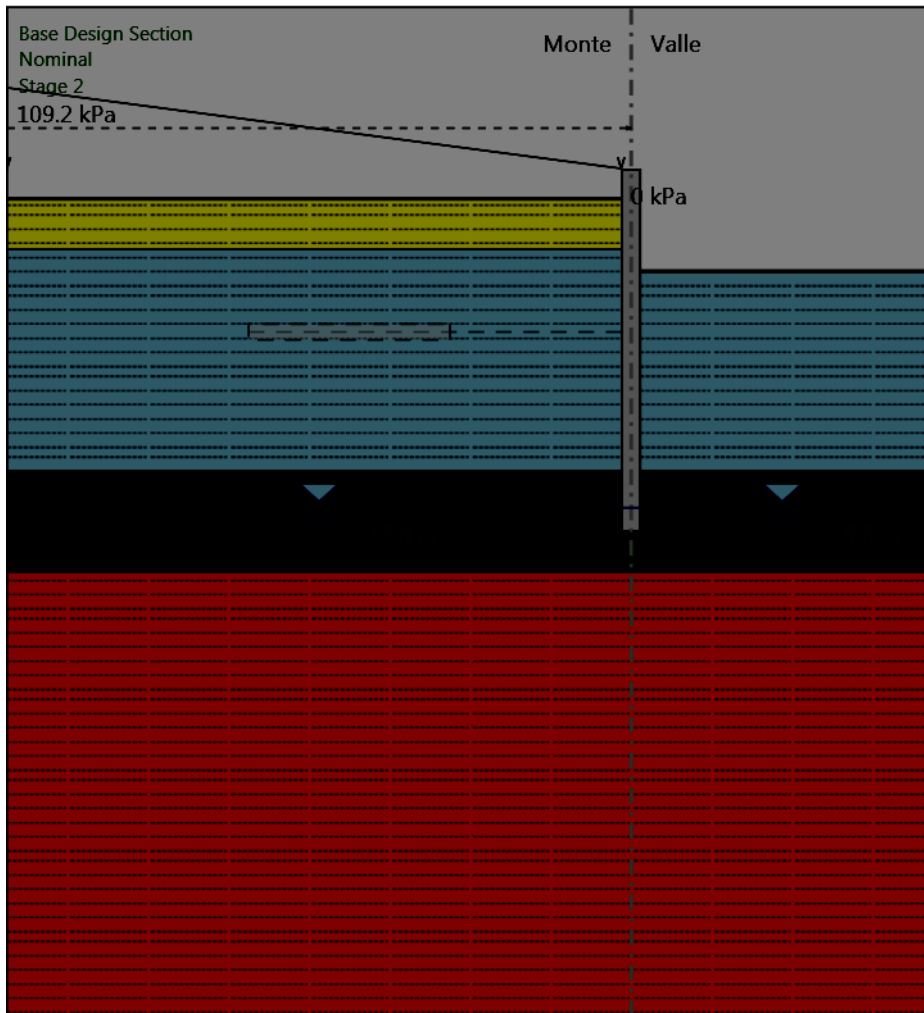
X : 0 m

Quota in alto : 2 m

Quota di fondo : -16 m

Sezione : PALI_Fi1000/1200

Stage 2



Stage 2

Scavo

Muro di sinistra

Lato monte : 0.5 m

Lato valle : -3.1 m

Linea di scavo di sinistra (Orizzontale)

0.5 m

Linea di scavo di destra (Orizzontale)

-3.1 m

Falda acquifera

Falda di sinistra : -14.8 m

Falda di destra : -14.8 m

Carichi

Carico lineare in superficie : SurfaceSurcharge

X iniziale : -0.5 m

X finale : -31 m

Pressione iniziale : 0 kPa

Pressione finale : 109.2 kPa

Elementi strutturali

Paratia : WallElement

X : 0 m

Quota in alto : 2 m

Quota di fondo : -16 m

Sezione : PALI_Fi1000/1200

Falda acquifera

Falda di sinistra : -14.8 m

Falda di destra : -14.8 m

Carichi

Carico lineare in superficie : SurfaceSurcharge

X iniziale : -0.5 m

X finale : -31 m

Pressione iniziale : 0 kPa

Pressione finale : 109.2 kPa

Elementi strutturali

Paratia : WallElement

X : 0 m

Quota in alto : 2 m

Quota di fondo : -16 m

Sezione : PALI_Fi1000/1200

Tirante : Tieback

X : 0 m

Z : -2.1 m

Lunghezza bulbo : 10 m

Diametro bulbo : 0.14 m

Lunghezza libera : 11 m

Precarico : 265 kN

Angolo : 0 °

Sezione : Trefoli 3

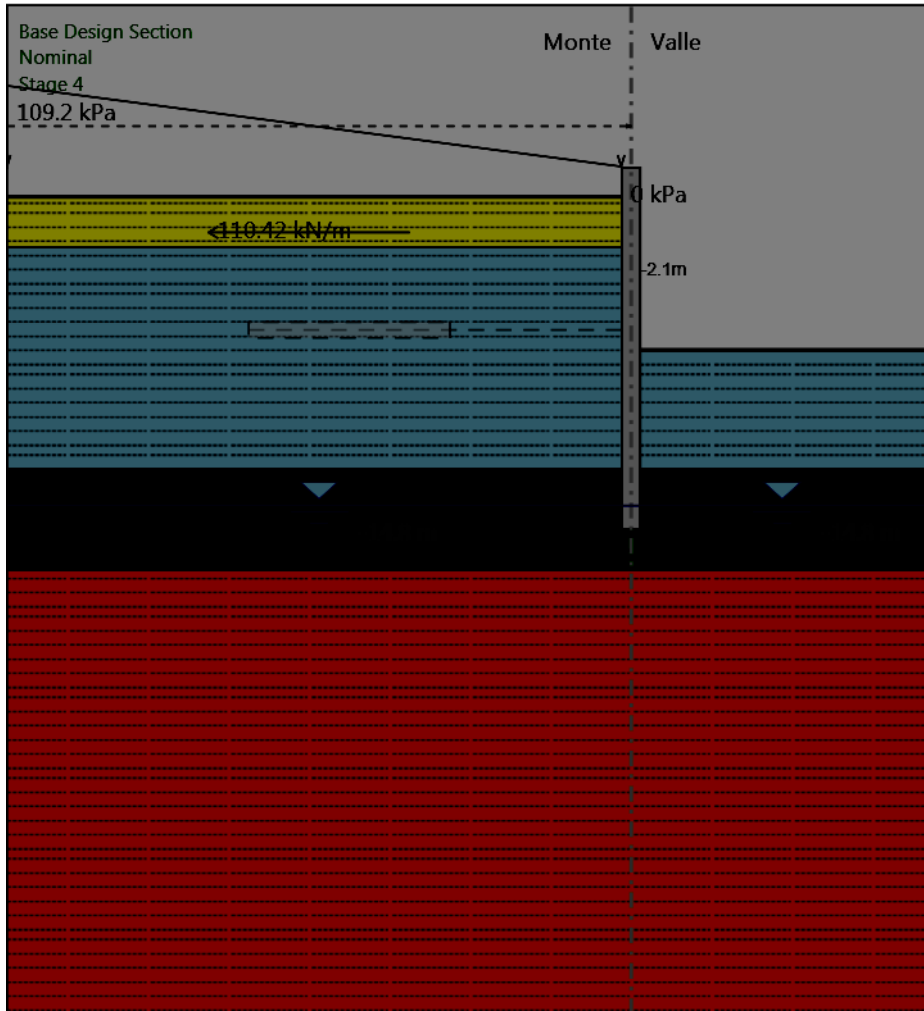
Tipo di barre : Barre trefoli

Numero di barre : 3

Diametro : 0.01331 m

Area : 0.000417 m²

Stage 4



Stage 4

Scavo

Muro di sinistra

Lato monte : 0.5 m

Lato valle : -7.1 m

Linea di scavo di sinistra (Orizzontale)

0.5 m

Linea di scavo di destra (Orizzontale)

-7.1 m

Falda acquifera

Falda di sinistra : -14.8 m

Falda di destra : -14.8 m

Carichi

Carico lineare in superficie : SurfaceSurcharge

X iniziale : -0.5 m

X finale : -31 m

Pressione iniziale : 0 kPa

Pressione finale : 109.2 kPa

Elementi strutturali

Paratia : WallElement

X : 0 m

Quota in alto : 2 m

Quota di fondo : -16 m

Sezione : PALI_Fi1000/1200

Tirante : Tieback

X : 0 m

Z : -2.1 m

Lunghezza bulbo : 10 m

Diametro bulbo : 0.14 m

Lunghezza libera : 11 m

Precarico : 265 kN

Angolo : 0 °

Sezione : Trefoli 3

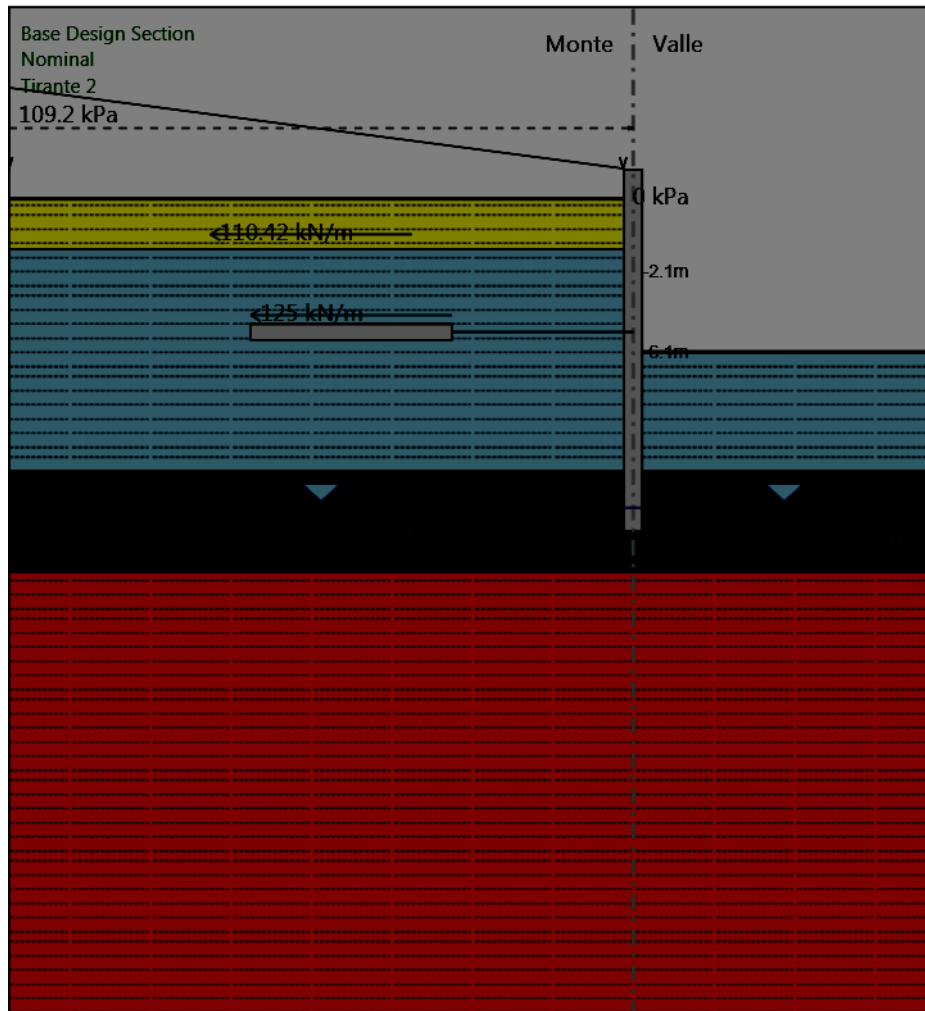
Tipo di barre : Barre trefoli

Numero di barre : 3

Diametro : 0.01331 m

Area : 0.000417 m²

Tirante 2



Tirante 2

Scavo

Muro di sinistra

Lato monte : 0.5 m

Lato valle : -7.1 m

Linea di scavo di sinistra (Orizzontale)

0.5 m

Linea di scavo di destra (Orizzontale)

-7.1 m

Falda acquifera

Falda di sinistra : -14.8 m

Falda di destra : -14.8 m

Carichi

Carico lineare in superficie : SurfaceSurcharge

X iniziale : -0.5 m

X finale : -31 m

Pressione iniziale : 0 kPa

Pressione finale : 109.2 kPa

Elementi strutturali

Paratia : WallElement

X : 0 m

Quota in alto : 2 m

Quota di fondo : -16 m

Sezione : PALI_Fi1000/1200

Tirante : Tieback

X : 0 m

Z : -2.1 m

Lunghezza bulbo : 10 m

Diametro bulbo : 0.14 m

Lunghezza libera : 11 m

Precarico : 265 kN

Angolo : 0 °

Sezione : Trefoli 3

Tipo di barre : Barre trefoli

Numero di barre : 3

Diametro : 0.01331 m

Area : 0.000417 m²

Tirante : Tieback

X : 0 m

Z : -6.1 m

Lunghezza bulbo : 10 m

Diametro bulbo : 0.14 m

Lunghezza libera : 9 m

Precarico : 300 kN

Angolo : 0 °

Sezione : Trefoli 3

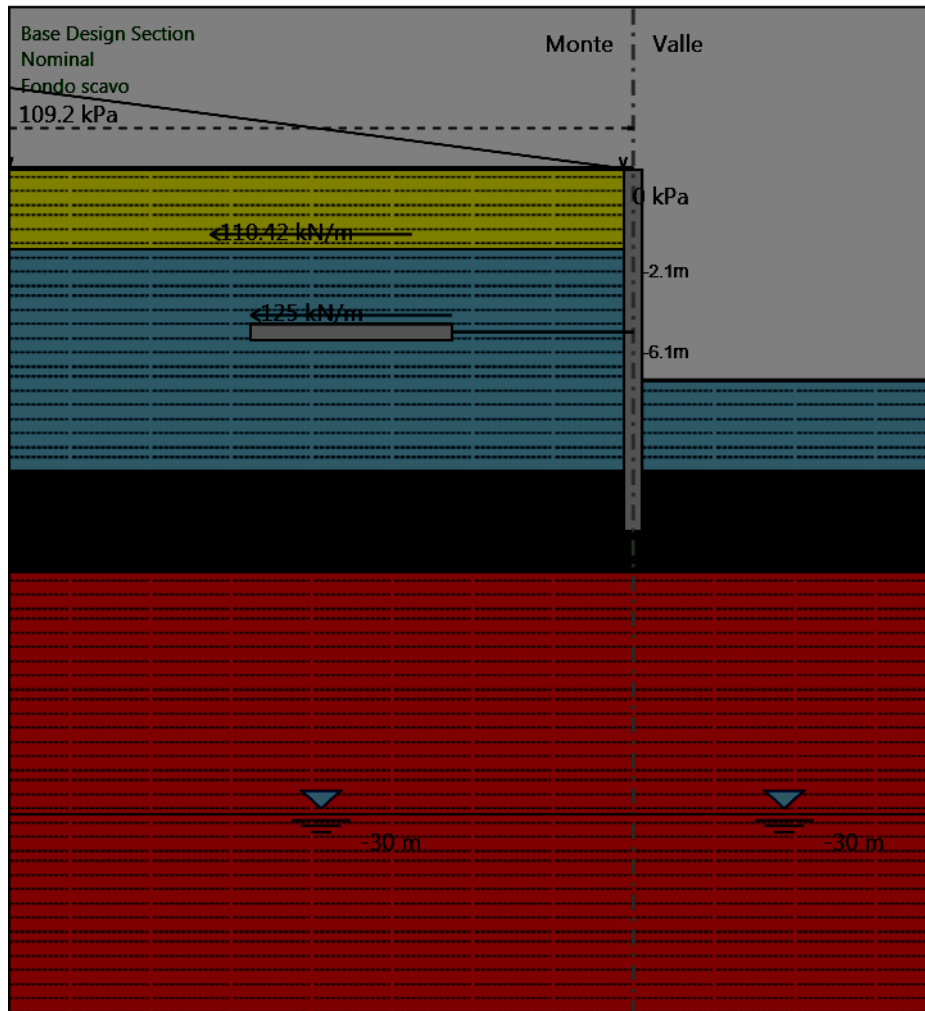
Tipo di barre : Barre trefoli

Numero di barre : 3

Diametro : 0.01331 m

Area : 0.000417 m²

Fondo scavo



Fondo scavo

Scavo

Muro di sinistra

Lato monte : 2 m

Lato valle : -8.5 m

Linea di scavo di sinistra (Orizzontale)

2 m

Linea di scavo di destra (Orizzontale)

-8.5 m

Falda acquifera

Falda di sinistra : -30 m

Falda di destra : -30 m

Carichi

Carico lineare in superficie : SurfaceSurcharge

X iniziale : -0.5 m

X finale : -31 m

Pressione iniziale : 0 kPa

Pressione finale : 109.2 kPa

Elementi strutturali

Paratia : WallElement

X : 0 m

Quota in alto : 2 m

Quota di fondo : -16 m

Sezione : PALI_Fi1000/1200

Tirante : Tieback

X : 0 m

Z : -2.1 m

Lunghezza bulbo : 10 m

Diametro bulbo : 0.14 m

Lunghezza libera : 11 m

Precarico : 265 kN

Angolo : 0 °

Sezione : Trefoli 3

Tipo di barre : Barre trefoli

Numero di barre : 3

Diametro : 0.01331 m

Area : 0.000417 m²

Tirante : Tieback

X : 0 m

Z : -6.1 m

Lunghezza bulbo : 10 m

Diametro bulbo : 0.14 m

Lunghezza libera : 9 m

Precarico : 300 kN

Angolo : 0 °

Sezione : Trefoli 3

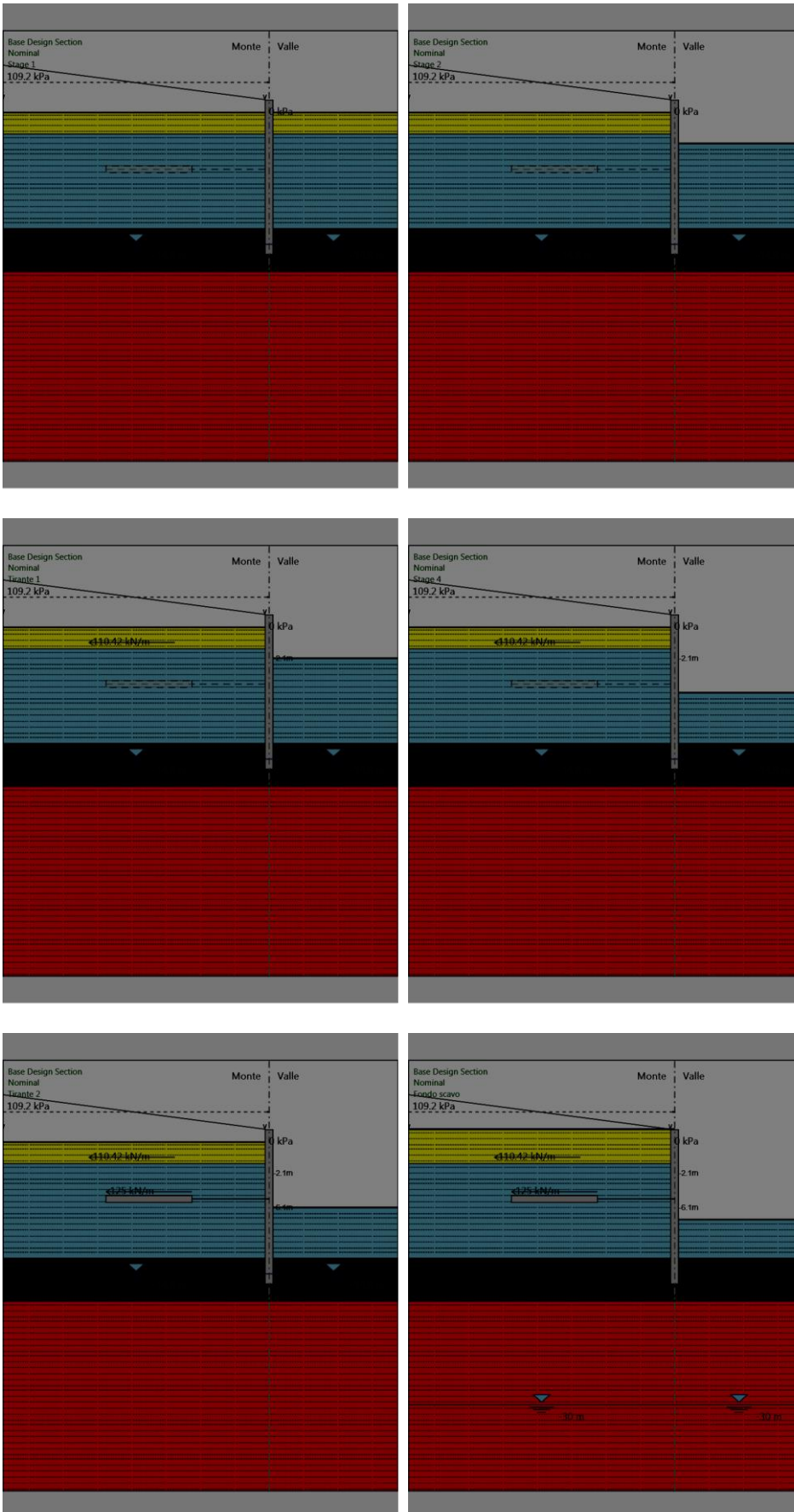
Tipo di barre : Barre trefoli

Numero di barre : 3

Diametro : 0.01331 m

Area : 0.000417 m²

Tabella Configurazione Stage (Nominal)



Grafici dei Risultati

Design Assumption : Nominal

Tabella Spostamento Nominal - LEFT Stage: Stage 1

Design Assumption: Nominal	Tipo Risultato: Spostamento	Muro: LEFT
Stage	Z (m)	Spostamento (mm)
Stage 1	2	0
Stage 1	1.8	0
Stage 1	1.6	0
Stage 1	1.4	0
Stage 1	1.2	0
Stage 1	1	0
Stage 1	0.8	0
Stage 1	0.6	0
Stage 1	0.4	0
Stage 1	0.2	0
Stage 1	0	0
Stage 1	-0.2	0
Stage 1	-0.4	0
Stage 1	-0.6	0
Stage 1	-0.8	0
Stage 1	-1	0
Stage 1	-1.2	0
Stage 1	-1.4	0
Stage 1	-1.6	0
Stage 1	-1.8	0
Stage 1	-2	0
Stage 1	-2.1	0
Stage 1	-2.3	0
Stage 1	-2.5	0
Stage 1	-2.7	0
Stage 1	-2.9	0
Stage 1	-3.1	0
Stage 1	-3.3	0
Stage 1	-3.5	0
Stage 1	-3.7	0
Stage 1	-3.9	0
Stage 1	-4.1	0
Stage 1	-4.3	0
Stage 1	-4.5	0
Stage 1	-4.7	0
Stage 1	-4.9	0
Stage 1	-5.1	0
Stage 1	-5.3	0
Stage 1	-5.5	0
Stage 1	-5.7	0
Stage 1	-5.9	0
Stage 1	-6.1	0
Stage 1	-6.3	0
Stage 1	-6.5	0
Stage 1	-6.7	0
Stage 1	-6.9	0
Stage 1	-7.1	0
Stage 1	-7.3	0
Stage 1	-7.5	0
Stage 1	-7.7	0
Stage 1	-7.9	0
Stage 1	-8.1	0
Stage 1	-8.3	0
Stage 1	-8.5	0
Stage 1	-8.7	0
Stage 1	-8.9	0
Stage 1	-9.1	0
Stage 1	-9.3	0
Stage 1	-9.5	0
Stage 1	-9.7	0
Stage 1	-9.9	0

Design Assumption: Nominal Tipo Risultato: Spostamento			Muro: LEFT
Stage	Z (m)	Spostamento (mm)	
Stage 1	-10.1	0	
Stage 1	-10.3	0	
Stage 1	-10.5	0	
Stage 1	-10.7	0	
Stage 1	-10.9	0	
Stage 1	-11.1	0	
Stage 1	-11.3	0	
Stage 1	-11.5	0	
Stage 1	-11.7	0	
Stage 1	-11.9	0	
Stage 1	-12.1	0	
Stage 1	-12.3	0	
Stage 1	-12.5	0	
Stage 1	-12.7	0	
Stage 1	-12.9	0	
Stage 1	-13.1	0	
Stage 1	-13.3	0	
Stage 1	-13.5	0	
Stage 1	-13.7	0	
Stage 1	-13.9	0	
Stage 1	-14.1	0	
Stage 1	-14.3	0	
Stage 1	-14.5	0	
Stage 1	-14.7	0	
Stage 1	-14.9	0	
Stage 1	-15.1	0	
Stage 1	-15.3	0	
Stage 1	-15.5	0	
Stage 1	-15.7	0	
Stage 1	-15.9	0	
Stage 1	-16	0	

Tabella Spostamento Nominal - LEFT Stage: Stage 2

Design Assumption: Nominal	Tipo Risultato: Spostamento	Muro: LEFT
Stage	Z (m)	Spostamento (mm)
Stage 2	2	6.4
Stage 2	1.8	6.24
Stage 2	1.6	6.08
Stage 2	1.4	5.91
Stage 2	1.2	5.75
Stage 2	1	5.59
Stage 2	0.8	5.42
Stage 2	0.6	5.26
Stage 2	0.4	5.1
Stage 2	0.2	4.94
Stage 2	0	4.77
Stage 2	-0.2	4.61
Stage 2	-0.4	4.45
Stage 2	-0.6	4.28
Stage 2	-0.8	4.12
Stage 2	-1	3.96
Stage 2	-1.2	3.8
Stage 2	-1.4	3.63
Stage 2	-1.6	3.47
Stage 2	-1.8	3.31
Stage 2	-2	3.15
Stage 2	-2.1	3.07
Stage 2	-2.3	2.91
Stage 2	-2.5	2.76
Stage 2	-2.7	2.6
Stage 2	-2.9	2.45
Stage 2	-3.1	2.3
Stage 2	-3.3	2.15
Stage 2	-3.5	2
Stage 2	-3.7	1.86
Stage 2	-3.9	1.72
Stage 2	-4.1	1.59
Stage 2	-4.3	1.46
Stage 2	-4.5	1.33
Stage 2	-4.7	1.21
Stage 2	-4.9	1.1
Stage 2	-5.1	0.99
Stage 2	-5.3	0.89
Stage 2	-5.5	0.79
Stage 2	-5.7	0.7
Stage 2	-5.9	0.61
Stage 2	-6.1	0.53
Stage 2	-6.3	0.45
Stage 2	-6.5	0.38
Stage 2	-6.7	0.32
Stage 2	-6.9	0.26
Stage 2	-7.1	0.2
Stage 2	-7.3	0.15
Stage 2	-7.5	0.11
Stage 2	-7.7	0.07
Stage 2	-7.9	0.03
Stage 2	-8.1	0
Stage 2	-8.3	-0.03
Stage 2	-8.5	-0.06
Stage 2	-8.7	-0.08
Stage 2	-8.9	-0.1
Stage 2	-9.1	-0.12
Stage 2	-9.3	-0.13
Stage 2	-9.5	-0.15
Stage 2	-9.7	-0.16
Stage 2	-9.9	-0.16
Stage 2	-10.1	-0.17
Stage 2	-10.3	-0.17
Stage 2	-10.5	-0.17
Stage 2	-10.7	-0.17
Stage 2	-10.9	-0.17
Stage 2	-11.1	-0.17

Design Assumption: Nominal Tipo Risultato: Spostamento		
Stage	Z (m)	Muro: LEFT Spostamento (mm)
Stage 2	-11.3	-0.17
Stage 2	-11.5	-0.17
Stage 2	-11.7	-0.16
Stage 2	-11.9	-0.16
Stage 2	-12.1	-0.15
Stage 2	-12.3	-0.14
Stage 2	-12.5	-0.14
Stage 2	-12.7	-0.13
Stage 2	-12.9	-0.12
Stage 2	-13.1	-0.11
Stage 2	-13.3	-0.1
Stage 2	-13.5	-0.1
Stage 2	-13.7	-0.09
Stage 2	-13.9	-0.08
Stage 2	-14.1	-0.07
Stage 2	-14.3	-0.06
Stage 2	-14.5	-0.05
Stage 2	-14.7	-0.04
Stage 2	-14.9	-0.03
Stage 2	-15.1	-0.03
Stage 2	-15.3	-0.02
Stage 2	-15.5	-0.01
Stage 2	-15.7	0
Stage 2	-15.9	0.01
Stage 2	-16	0.01

Tabella Spostamento Nominal - LEFT Stage: Tirante 1

Design Assumption: Nominal	Tipo Risultato: Spostamento	Muro: LEFT
Stage	Z (m)	Spostamento (mm)
Tirante 1	2	3.61
Tirante 1	1.8	3.52
Tirante 1	1.6	3.43
Tirante 1	1.4	3.33
Tirante 1	1.2	3.24
Tirante 1	1	3.15
Tirante 1	0.8	3.05
Tirante 1	0.6	2.96
Tirante 1	0.4	2.87
Tirante 1	0.2	2.78
Tirante 1	0	2.68
Tirante 1	-0.2	2.59
Tirante 1	-0.4	2.5
Tirante 1	-0.6	2.4
Tirante 1	-0.8	2.31
Tirante 1	-1	2.22
Tirante 1	-1.2	2.13
Tirante 1	-1.4	2.04
Tirante 1	-1.6	1.95
Tirante 1	-1.8	1.86
Tirante 1	-2	1.77
Tirante 1	-2.1	1.73
Tirante 1	-2.3	1.64
Tirante 1	-2.5	1.56
Tirante 1	-2.7	1.48
Tirante 1	-2.9	1.4
Tirante 1	-3.1	1.32
Tirante 1	-3.3	1.24
Tirante 1	-3.5	1.16
Tirante 1	-3.7	1.09
Tirante 1	-3.9	1.02
Tirante 1	-4.1	0.94
Tirante 1	-4.3	0.87
Tirante 1	-4.5	0.81
Tirante 1	-4.7	0.74
Tirante 1	-4.9	0.68
Tirante 1	-5.1	0.62
Tirante 1	-5.3	0.56
Tirante 1	-5.5	0.5
Tirante 1	-5.7	0.45
Tirante 1	-5.9	0.4
Tirante 1	-6.1	0.35
Tirante 1	-6.3	0.31
Tirante 1	-6.5	0.27
Tirante 1	-6.7	0.23
Tirante 1	-6.9	0.19
Tirante 1	-7.1	0.16
Tirante 1	-7.3	0.13
Tirante 1	-7.5	0.1
Tirante 1	-7.7	0.08
Tirante 1	-7.9	0.05
Tirante 1	-8.1	0.03
Tirante 1	-8.3	0.01
Tirante 1	-8.5	-0.01
Tirante 1	-8.7	-0.02
Tirante 1	-8.9	-0.04
Tirante 1	-9.1	-0.05
Tirante 1	-9.3	-0.06
Tirante 1	-9.5	-0.07
Tirante 1	-9.7	-0.07
Tirante 1	-9.9	-0.08
Tirante 1	-10.1	-0.09
Tirante 1	-10.3	-0.09
Tirante 1	-10.5	-0.09
Tirante 1	-10.7	-0.1
Tirante 1	-10.9	-0.1
Tirante 1	-11.1	-0.1

Design Assumption: Nominal Tipo Risultato: Spostamento		
Stage	Z (m)	Muro: LEFT Spostamento (mm)
Tirante 1	-11.3	-0.1
Tirante 1	-11.5	-0.1
Tirante 1	-11.7	-0.09
Tirante 1	-11.9	-0.09
Tirante 1	-12.1	-0.09
Tirante 1	-12.3	-0.09
Tirante 1	-12.5	-0.08
Tirante 1	-12.7	-0.08
Tirante 1	-12.9	-0.08
Tirante 1	-13.1	-0.07
Tirante 1	-13.3	-0.07
Tirante 1	-13.5	-0.06
Tirante 1	-13.7	-0.06
Tirante 1	-13.9	-0.05
Tirante 1	-14.1	-0.05
Tirante 1	-14.3	-0.04
Tirante 1	-14.5	-0.04
Tirante 1	-14.7	-0.03
Tirante 1	-14.9	-0.03
Tirante 1	-15.1	-0.02
Tirante 1	-15.3	-0.02
Tirante 1	-15.5	-0.01
Tirante 1	-15.7	-0.01
Tirante 1	-15.9	0
Tirante 1	-16	0

Tabella Spostamento Nominal - LEFT Stage: Stage 4

Design Assumption: Nominal	Tipo Risultato: Spostamento	Muro: LEFT
Stage	Z (m)	Spostamento (mm)
Stage 4	2	21.79
Stage 4	1.8	21.51
Stage 4	1.6	21.23
Stage 4	1.4	20.94
Stage 4	1.2	20.66
Stage 4	1	20.38
Stage 4	0.8	20.1
Stage 4	0.6	19.82
Stage 4	0.4	19.54
Stage 4	0.2	19.26
Stage 4	0	18.98
Stage 4	-0.2	18.7
Stage 4	-0.4	18.41
Stage 4	-0.6	18.13
Stage 4	-0.8	17.85
Stage 4	-1	17.57
Stage 4	-1.2	17.29
Stage 4	-1.4	17.01
Stage 4	-1.6	16.73
Stage 4	-1.8	16.45
Stage 4	-2	16.17
Stage 4	-2.1	16.03
Stage 4	-2.3	15.76
Stage 4	-2.5	15.48
Stage 4	-2.7	15.2
Stage 4	-2.9	14.93
Stage 4	-3.1	14.65
Stage 4	-3.3	14.37
Stage 4	-3.5	14.09
Stage 4	-3.7	13.8
Stage 4	-3.9	13.52
Stage 4	-4.1	13.23
Stage 4	-4.3	12.93
Stage 4	-4.5	12.64
Stage 4	-4.7	12.34
Stage 4	-4.9	12.03
Stage 4	-5.1	11.72
Stage 4	-5.3	11.41
Stage 4	-5.5	11.09
Stage 4	-5.7	10.77
Stage 4	-5.9	10.45
Stage 4	-6.1	10.12
Stage 4	-6.3	9.79
Stage 4	-6.5	9.46
Stage 4	-6.7	9.12
Stage 4	-6.9	8.78
Stage 4	-7.1	8.44
Stage 4	-7.3	8.1
Stage 4	-7.5	7.76
Stage 4	-7.7	7.41
Stage 4	-7.9	7.07
Stage 4	-8.1	6.73
Stage 4	-8.3	6.4
Stage 4	-8.5	6.06
Stage 4	-8.7	5.73
Stage 4	-8.9	5.41
Stage 4	-9.1	5.09
Stage 4	-9.3	4.78
Stage 4	-9.5	4.47
Stage 4	-9.7	4.17
Stage 4	-9.9	3.88
Stage 4	-10.1	3.6
Stage 4	-10.3	3.32
Stage 4	-10.5	3.06
Stage 4	-10.7	2.8
Stage 4	-10.9	2.55
Stage 4	-11.1	2.3

Design Assumption: Nominal Tipo Risultato: Spostamento Muro: LEFT		
Stage	Z (m)	Spostamento (mm)
Stage 4	-11.3	2.07
Stage 4	-11.5	1.84
Stage 4	-11.7	1.62
Stage 4	-11.9	1.41
Stage 4	-12.1	1.2
Stage 4	-12.3	1.01
Stage 4	-12.5	0.81
Stage 4	-12.7	0.63
Stage 4	-12.9	0.45
Stage 4	-13.1	0.27
Stage 4	-13.3	0.1
Stage 4	-13.5	-0.07
Stage 4	-13.7	-0.23
Stage 4	-13.9	-0.39
Stage 4	-14.1	-0.55
Stage 4	-14.3	-0.7
Stage 4	-14.5	-0.86
Stage 4	-14.7	-1.01
Stage 4	-14.9	-1.16
Stage 4	-15.1	-1.31
Stage 4	-15.3	-1.46
Stage 4	-15.5	-1.61
Stage 4	-15.7	-1.76
Stage 4	-15.9	-1.9
Stage 4	-16	-1.98

Tabella Spostamento Nominal - LEFT Stage: Tirante 2

Design Assumption: Nominal	Tipo Risultato: Spostamento	Muro: LEFT
Stage	Z (m)	Spostamento (mm)
Tirante 2	2	21.44
Tirante 2	1.8	21.13
Tirante 2	1.6	20.83
Tirante 2	1.4	20.52
Tirante 2	1.2	20.22
Tirante 2	1	19.92
Tirante 2	0.8	19.61
Tirante 2	0.6	19.31
Tirante 2	0.4	19.01
Tirante 2	0.2	18.7
Tirante 2	0	18.4
Tirante 2	-0.2	18.09
Tirante 2	-0.4	17.79
Tirante 2	-0.6	17.49
Tirante 2	-0.8	17.18
Tirante 2	-1	16.88
Tirante 2	-1.2	16.58
Tirante 2	-1.4	16.27
Tirante 2	-1.6	15.97
Tirante 2	-1.8	15.67
Tirante 2	-2	15.37
Tirante 2	-2.1	15.22
Tirante 2	-2.3	14.92
Tirante 2	-2.5	14.62
Tirante 2	-2.7	14.33
Tirante 2	-2.9	14.03
Tirante 2	-3.1	13.73
Tirante 2	-3.3	13.43
Tirante 2	-3.5	13.13
Tirante 2	-3.7	12.83
Tirante 2	-3.9	12.53
Tirante 2	-4.1	12.22
Tirante 2	-4.3	11.91
Tirante 2	-4.5	11.6
Tirante 2	-4.7	11.29
Tirante 2	-4.9	10.98
Tirante 2	-5.1	10.66
Tirante 2	-5.3	10.35
Tirante 2	-5.5	10.03
Tirante 2	-5.7	9.71
Tirante 2	-5.9	9.39
Tirante 2	-6.1	9.07
Tirante 2	-6.3	8.76
Tirante 2	-6.5	8.44
Tirante 2	-6.7	8.12
Tirante 2	-6.9	7.81
Tirante 2	-7.1	7.49
Tirante 2	-7.3	7.18
Tirante 2	-7.5	6.86
Tirante 2	-7.7	6.55
Tirante 2	-7.9	6.24
Tirante 2	-8.1	5.94
Tirante 2	-8.3	5.63
Tirante 2	-8.5	5.33
Tirante 2	-8.7	5.04
Tirante 2	-8.9	4.75
Tirante 2	-9.1	4.46
Tirante 2	-9.3	4.19
Tirante 2	-9.5	3.91
Tirante 2	-9.7	3.65
Tirante 2	-9.9	3.39
Tirante 2	-10.1	3.14
Tirante 2	-10.3	2.9
Tirante 2	-10.5	2.66
Tirante 2	-10.7	2.43
Tirante 2	-10.9	2.21
Tirante 2	-11.1	1.99

Design Assumption: Nominal Tipo Risultato: Spostamento		
Stage	Z (m)	Muro: LEFT Spostamento (mm)
Tirante 2	-11.3	1.79
Tirante 2	-11.5	1.59
Tirante 2	-11.7	1.39
Tirante 2	-11.9	1.21
Tirante 2	-12.1	1.03
Tirante 2	-12.3	0.85
Tirante 2	-12.5	0.68
Tirante 2	-12.7	0.52
Tirante 2	-12.9	0.36
Tirante 2	-13.1	0.21
Tirante 2	-13.3	0.06
Tirante 2	-13.5	-0.09
Tirante 2	-13.7	-0.23
Tirante 2	-13.9	-0.37
Tirante 2	-14.1	-0.51
Tirante 2	-14.3	-0.65
Tirante 2	-14.5	-0.78
Tirante 2	-14.7	-0.92
Tirante 2	-14.9	-1.05
Tirante 2	-15.1	-1.18
Tirante 2	-15.3	-1.31
Tirante 2	-15.5	-1.44
Tirante 2	-15.7	-1.57
Tirante 2	-15.9	-1.7
Tirante 2	-16	-1.77

Tabella Spostamento Nominal - LEFT Stage: Fondo scavo

Design Assumption: Nominal	Tipo Risultato: Spostamento	Muro: LEFT
Stage	Z (m)	Spostamento (mm)
Fondo scavo	2	80.04
Fondo scavo	1.8	78.99
Fondo scavo	1.6	77.95
Fondo scavo	1.4	76.91
Fondo scavo	1.2	75.87
Fondo scavo	1	74.83
Fondo scavo	0.8	73.79
Fondo scavo	0.6	72.74
Fondo scavo	0.4	71.7
Fondo scavo	0.2	70.66
Fondo scavo	0	69.62
Fondo scavo	-0.2	68.58
Fondo scavo	-0.4	67.54
Fondo scavo	-0.6	66.5
Fondo scavo	-0.8	65.46
Fondo scavo	-1	64.43
Fondo scavo	-1.2	63.39
Fondo scavo	-1.4	62.36
Fondo scavo	-1.6	61.33
Fondo scavo	-1.8	60.3
Fondo scavo	-2	59.28
Fondo scavo	-2.1	58.77
Fondo scavo	-2.3	57.75
Fondo scavo	-2.5	56.74
Fondo scavo	-2.7	55.72
Fondo scavo	-2.9	54.72
Fondo scavo	-3.1	53.71
Fondo scavo	-3.3	52.71
Fondo scavo	-3.5	51.7
Fondo scavo	-3.7	50.7
Fondo scavo	-3.9	49.7
Fondo scavo	-4.1	48.69
Fondo scavo	-4.3	47.69
Fondo scavo	-4.5	46.69
Fondo scavo	-4.7	45.69
Fondo scavo	-4.9	44.69
Fondo scavo	-5.1	43.68
Fondo scavo	-5.3	42.68
Fondo scavo	-5.5	41.68
Fondo scavo	-5.7	40.68
Fondo scavo	-5.9	39.67
Fondo scavo	-6.1	38.67
Fondo scavo	-6.3	37.67
Fondo scavo	-6.5	36.68
Fondo scavo	-6.7	35.68
Fondo scavo	-6.9	34.68
Fondo scavo	-7.1	33.68
Fondo scavo	-7.3	32.69
Fondo scavo	-7.5	31.69
Fondo scavo	-7.7	30.69
Fondo scavo	-7.9	29.69
Fondo scavo	-8.1	28.69
Fondo scavo	-8.3	27.69
Fondo scavo	-8.5	26.69
Fondo scavo	-8.7	25.69
Fondo scavo	-8.9	24.69
Fondo scavo	-9.1	23.7
Fondo scavo	-9.3	22.71
Fondo scavo	-9.5	21.72
Fondo scavo	-9.7	20.73
Fondo scavo	-9.9	19.75
Fondo scavo	-10.1	18.78
Fondo scavo	-10.3	17.81
Fondo scavo	-10.5	16.85
Fondo scavo	-10.7	15.9
Fondo scavo	-10.9	14.95
Fondo scavo	-11.1	14.02

Design Assumption: Nominal Tipo Risultato: Spostamento Muro: LEFT		
Stage	Z (m)	Spostamento (mm)
Fondo scavo	-11.3	13.1
Fondo scavo	-11.5	12.18
Fondo scavo	-11.7	11.28
Fondo scavo	-11.9	10.39
Fondo scavo	-12.1	9.52
Fondo scavo	-12.3	8.65
Fondo scavo	-12.5	7.8
Fondo scavo	-12.7	6.95
Fondo scavo	-12.9	6.12
Fondo scavo	-13.1	5.3
Fondo scavo	-13.3	4.49
Fondo scavo	-13.5	3.69
Fondo scavo	-13.7	2.9
Fondo scavo	-13.9	2.12
Fondo scavo	-14.1	1.34
Fondo scavo	-14.3	0.57
Fondo scavo	-14.5	-0.19
Fondo scavo	-14.7	-0.95
Fondo scavo	-14.9	-1.7
Fondo scavo	-15.1	-2.46
Fondo scavo	-15.3	-3.21
Fondo scavo	-15.5	-3.96
Fondo scavo	-15.7	-4.71
Fondo scavo	-15.9	-5.46
Fondo scavo	-16	-5.83

Inviluppi Spostamento Nominal

Tabella Inviluppi Spostamento Nominal Left Wall

Risultato	Inviluppi	Spostamento
Left Wall	Muro Left Wall	
2	0	80.037
1.8	0	78.995
1.6	0	77.953
1.4	0	76.911
1.2	0	75.869
1	0	74.827
0.8	0	73.785
0.6	0	72.743
0.4	0	71.702
0.2	0	70.66
0	0	69.619
-0.2	0	68.579
-0.4	0	67.539
-0.6	0	66.5
-0.8	0	65.463
-1	0	64.426
-1.2	0	63.391
-1.4	0	62.359
-1.6	0	61.329
-1.8	0	60.301
-2	0	59.278
-2.1	0	58.767
-2.3	0	57.75
-2.5	0	56.736
-2.7	0	55.725
-2.9	0	54.717
-3.1	0	53.71
-3.3	0	52.706
-3.5	0	51.702
-3.7	0	50.699
-3.9	0	49.697
-4.1	0	48.695
-4.3	0	47.693
-4.5	0	46.691
-4.7	0	45.688
-4.9	0	44.686
-5.1	0	43.683
-5.3	0	42.68
-5.5	0	41.678
-5.7	0	40.675
-5.9	0	39.674
-6.1	0	38.673
-6.3	0	37.674
-6.5	0	36.676
-6.7	0	35.678
-6.9	0	34.681
-7.1	0	33.683
-7.3	0	32.685
-7.5	0	31.687
-7.7	0	30.688
-7.9	0	29.689
-8.1	-0.005	28.689
-8.3	-0.034	27.689
-8.5	-0.06	26.69
-8.7	-0.083	25.691
-8.9	-0.103	24.694
-9.1	-0.12	23.698
-9.3	-0.134	22.705
-9.5	-0.146	21.716
-9.7	-0.155	20.731
-9.9	-0.163	19.75
-10.1	-0.168	18.776
-10.3	-0.172	17.808
-10.5	-0.174	16.847

Risultato	Inviluppi	Spostamento
Left Wall	Muro Left Wall	
-10.7	-0.175	15.895
-10.9	-0.174	14.952
-11.1	-0.172	14.019
-11.3	-0.169	13.096
-11.5	-0.165	12.183
-11.7	-0.161	11.282
-11.9	-0.155	10.393
-12.1	-0.149	9.515
-12.3	-0.143	8.649
-12.5	-0.136	7.795
-12.7	-0.128	6.953
-12.9	-0.12	6.122
-13.1	-0.112	5.301
-13.3	-0.104	4.492
-13.5	-0.095	3.692
-13.7	-0.233	2.901
-13.9	-0.392	2.118
-14.1	-0.549	1.343
-14.3	-0.704	0.574
-14.5	-0.858	0
-14.7	-1.01	0
-14.9	-1.705	0
-15.1	-2.457	0
-15.3	-3.208	0
-15.5	-3.958	0
-15.7	-4.707	0.001
-15.9	-5.456	0.01
-16	-5.83	0.014

Riepilogo spinte

Design Assumption: Tipo Risultato: Riepilogo spinte		Muro:	LEFT	Lato	LEFT		
Nominal 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
Stage 1	1724.3	7.2	1731.5	1061.2	8328.4	20.7%	1.62
Stage 2	1633.8	7.2	1641	1061.2	8328.4	19.62%	1.54
Tirante 1	1717.3	7.2	1724.6	1061.2	8328.4	20.62%	1.62
Stage 4	1435.6	7.2	1442.8	1061.2	8328.4	17.24%	1.35
Tirante 2	1534.8	7.2	1542.1	1061.2	8328.4	18.43%	1.45
Fondo scavo	1569.8	0	1569.8	1301.8	9811.4	16%	1.21

Design Assumption: Tipo Risultato: Riepilogo spinte		Muro:	LEFT	Lato	RIGHT		
Nominal 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
Stage 1	1724.3	7.2	1731.5	1058.2	8308.8	20.75%	1.63
Stage 2	1633.8	7.2	1641	601.6	5144.1	31.76%	2.72
Tirante 1	1606.9	7.2	1614.2	601.6	5144.1	31.24%	2.67
Stage 4	1301.5	7.2	1308.7	237.9	2490.1	52.27%	5.47
Tirante 2	1277.1	7.2	1284.3	237.9	2490.1	51.29%	5.37
Fondo scavo	1185.9	0	1185.9	145	1821	65.12%	8.18

Allegati

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

```
* PARATIE ANALYSIS FOR DESIGN SECTION:Base Design Section USING ASSUMPTION: Nominal
* Time:lunedì 29 giugno 2020 17:50:46
* 1: Defining general settings
UNIT m kN
TITLE New Project
DELTA 0.2
option param itemax 40

* 2: Defining wall(s)
WALL LeftWall_29 0 -16 2 1

* 3: Defining surfaces for wall(s)
SOIL 0_L LeftWall_29 -16 2 1 0
SOIL 0_R LeftWall_29 -16 2 2 180

* 4: Defining soil layers
*
* Soil Profile (FRANA_334_8_L_0)
*
LDATA FRANA_334_8_L_0 2 LeftWall_29
ATREST 0.758 1 1
WEIGHT 20 10 10
PERMEABILITY 1E-05
RESISTANCE 0 14
YOUNG 1.5E+04 2.4E+04
ENDDL
*
* Soil Profile (BNA3(2)_335_337_L_0)
*
LDATA BNA3(2)_335_337_L_0 -2 LeftWall_29
ATREST 0.581 1 1
WEIGHT 20 10 10
PERMEABILITY 1E-05
RESISTANCE 2 24.8
YOUNG 5E+04 8E+04
ENDDL
*
* Soil Profile (BNA3(3)_336_338_L_0)
*
LDATA BNA3(3)_336_338_L_0 -13 LeftWall_29
ATREST 0.65 1 1
WEIGHT 20 10 10
PERMEABILITY 1E-05
RESISTANCE 24 20.5
YOUNG 7.5E+04 1.2E+05
ENDDL

* 5: Defining structural materials
* Steel material: 2753 Name=Fe360 E=206000200 kPa
MATERIAL Fe360_2753 2.06E+08
* Concrete material: 101 Name=C25/30 E=31475800 kPa
MATERIAL C2530_101 3.148E+07
* Rebar material: 110 Name=acciaio armonico E=200100000 kPa
MATERIAL acciaioarmonico_110 2.001E+08

* 6: Defining structural elements
* 6.1: Beams
BEAM WallElement_30 LeftWall_29 -16 2 C2530_101 0.7888 00 00

* 6.2: Supports
WIRE Tieback_341 LeftWall_29 -2.1 acciaioarmonico_110 8.274E-06 110.4 0 0 0
WIRE Tieback_342 LeftWall_29 -6.1 acciaioarmonico_110 9.145E-06 125 0 0 0

* 6.3: Strips
STRIP LeftWall_29 1 6 31 30.5 2 54.6 45

* 7: Defining Steps
STEP Stage1_28
CHANGE FRANA_334_8_L_0 U-FRICT=14 LeftWall_29
CHANGE FRANA_334_8_L_0 D-FRICT=14 LeftWall_29
CHANGE FRANA_334_8_L_0 U-KA=0.61 LeftWall_29
CHANGE FRANA_334_8_L_0 U-KP=1.85 LeftWall_29
CHANGE FRANA_334_8_L_0 D-KA=0.61 LeftWall_29
CHANGE FRANA_334_8_L_0 D-KP=1.85 LeftWall_29
CHANGE BNA3(2)_335_337_L_0 U-FRICT=24.8 LeftWall_29
CHANGE BNA3(2)_335_337_L_0 D-FRICT=24.8 LeftWall_29
CHANGE BNA3(2)_335_337_L_0 U-KA=0.409 LeftWall_29
CHANGE BNA3(2)_335_337_L_0 U-KP=3.187 LeftWall_29
```

```
CHANGE BNA3(2)_335_337_L_0 D-KA=0.409 LeftWall_29
CHANGE BNA3(2)_335_337_L_0 D-KP=3.187 LeftWall_29
CHANGE BNA3(3)_336_338_L_0 U-FRICT=20.5 LeftWall_29
CHANGE BNA3(3)_336_338_L_0 D-FRICT=20.5 LeftWall_29
CHANGE BNA3(3)_336_338_L_0 U-KA=0.481 LeftWall_29
CHANGE BNA3(3)_336_338_L_0 U-KP=2.541 LeftWall_29
CHANGE BNA3(3)_336_338_L_0 D-KA=0.481 LeftWall_29
CHANGE BNA3(3)_336_338_L_0 D-KP=2.541 LeftWall_29
CHANGE FRANA_334_8_L_0 U-COHE=0 LeftWall_29
CHANGE FRANA_334_8_L_0 D-COHE=0 LeftWall_29
CHANGE BNA3(2)_335_337_L_0 U-COHE=2 LeftWall_29
CHANGE BNA3(2)_335_337_L_0 D-COHE=2 LeftWall_29
CHANGE BNA3(3)_336_338_L_0 U-COHE=24 LeftWall_29
CHANGE BNA3(3)_336_338_L_0 D-COHE=24 LeftWall_29
SETWALL LeftWall_29
GEOM 0.5 0.5
WATER -14.8 0 -16 0 0
ADD WallElement_30
ENDSTEP
```

```
STEP Stage2_344
CHANGE FRANA_334_8_L_0 D-FRICT=14 LeftWall_29
CHANGE BNA3(2)_335_337_L_0 D-FRICT=24.8 LeftWall_29
CHANGE BNA3(3)_336_338_L_0 D-FRICT=20.5 LeftWall_29
CHANGE FRANA_334_8_L_0 D-COHE=0 LeftWall_29
CHANGE BNA3(2)_335_337_L_0 D-COHE=2 LeftWall_29
CHANGE BNA3(3)_336_338_L_0 D-COHE=24 LeftWall_29
SETWALL LeftWall_29
GEOM 0.5 -3.1
WATER -14.8 0 -16 0 0
ENDSTEP
```

```
STEP Tirante1_1139
CHANGE FRANA_334_8_L_0 D-FRICT=14 LeftWall_29
CHANGE BNA3(2)_335_337_L_0 D-FRICT=24.8 LeftWall_29
CHANGE BNA3(3)_336_338_L_0 D-FRICT=20.5 LeftWall_29
CHANGE FRANA_334_8_L_0 D-COHE=0 LeftWall_29
CHANGE BNA3(2)_335_337_L_0 D-COHE=2 LeftWall_29
CHANGE BNA3(3)_336_338_L_0 D-COHE=24 LeftWall_29
SETWALL LeftWall_29
GEOM 0.5 -3.1
WATER -14.8 0 -16 0 0
ADD Tieback_341
ENDSTEP
```

```
STEP Stage4_1238
CHANGE FRANA_334_8_L_0 D-FRICT=14 LeftWall_29
CHANGE BNA3(2)_335_337_L_0 D-FRICT=24.8 LeftWall_29
CHANGE BNA3(3)_336_338_L_0 D-FRICT=20.5 LeftWall_29
CHANGE FRANA_334_8_L_0 D-COHE=0 LeftWall_29
CHANGE BNA3(2)_335_337_L_0 D-COHE=2 LeftWall_29
CHANGE BNA3(3)_336_338_L_0 D-COHE=24 LeftWall_29
SETWALL LeftWall_29
GEOM 0.5 -7.1
WATER -14.8 0 -16 0 0
ENDSTEP
```

```
STEP Tirante2_1685
CHANGE FRANA_334_8_L_0 D-FRICT=14 LeftWall_29
CHANGE BNA3(2)_335_337_L_0 D-FRICT=24.8 LeftWall_29
CHANGE BNA3(3)_336_338_L_0 D-FRICT=20.5 LeftWall_29
CHANGE FRANA_334_8_L_0 D-COHE=0 LeftWall_29
CHANGE BNA3(2)_335_337_L_0 D-COHE=2 LeftWall_29
CHANGE BNA3(3)_336_338_L_0 D-COHE=24 LeftWall_29
SETWALL LeftWall_29
GEOM 0.5 -7.1
WATER -14.8 0 -16 0 0
ADD Tieback_342
ENDSTEP
```

```
STEP Fondoscavo_2741
CHANGE FRANA_334_8_L_0 D-FRICT=14 LeftWall_29
CHANGE BNA3(2)_335_337_L_0 D-FRICT=24.8 LeftWall_29
CHANGE BNA3(3)_336_338_L_0 D-FRICT=20.5 LeftWall_29
CHANGE FRANA_334_8_L_0 D-COHE=0 LeftWall_29
CHANGE BNA3(2)_335_337_L_0 D-COHE=2 LeftWall_29
CHANGE BNA3(3)_336_338_L_0 D-COHE=24 LeftWall_29
SETWALL LeftWall_29
GEOM 2 -8.5
WATER -30 0 -16 0 0
ENDSTEP
```

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

```

+-----+
|                PARATIE PLUS 2014 NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Sept23, 2015*                |
|                                                                                                            |
|                NewProject.BaseDesignSection_25.Nominal_60                                            |
|                Exe Time :29 June 2020      17:50:46                                                    |
+-----+

```

```

*****
*                                                                 *
* PARATIE PLUS Non-Linear Spring Engine                          *
*                                                                 *
* AN ELASTOPLASTIC FINITE ELEMENT PROGRAM                       *
* FOR FLEXIBLE EARTH-RETAINING STRUCTURES                       *
*                                                                 *
* Written by Ce.A.S. s.r.l. (ITALY)                             *
* with the scientific supervision of                             *
* Roberto Nova - full professor SOIL MECHANICS                 *
* at Politecnico di Milano (ITALY)                             *
*                                                                 *
*****
* RELEASE 2016 *Build date: Sept23, 2015*                       *
*                                                                 *
*                                                                 *
* Ce.A.S. S.R.L. CENTRO DI ANALISI STRUTTURALE                 *
* VIALE GIUSTINIANO 10                                         *
* 20129 M I L A N O (ITALIA)                                   *
* TEL. +39 02 2020221 (+39 035 23 67 19)                       *
* FAX +39 02 29512533 (+39 035 42285 49)                     *
* email bruno.becci@ceas.it                                   *
* Web Page www.ceas.it                                         *
*****

```

```

JOB : NewProject.BaseDesignSection_25.Nominal_60
STARTING
ACCEPTED <FILE,GENW >
ACCEPTED <FILE,PLOTTER,BINARY >
ACCEPTED <SOLVE TOTAL_STRESS >
ACCEPTED <PARAM ITEMAX 40 >

```

```

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

```

```

PRELIMINARY OPERATIONS CPU TIME 0.01 [sec]

```

```

+-----+
|          PARATIE PLUS 2014 NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Sept23, 2015*          |
|                                                                                                    |
|                                     NewProject.BaseDesignSection_25.Nominal_60                        |
|                               Exe Time :29 June 2020      17:50:46                                |
+-----+

```

INPUT FILE HAS BEEN GENERATED BY WALGEN PROGRAM

New Project

```

NO. OF NODAL POINTS (NUMNP) ..... 92
NO. OF COORDINATES (NCOORD)..... 2
NO. OF NODE DOFS (NDOF)..... 2
NO. OF EQUATIONS (NEQ)..... 184
NO. OF CONSTRAINTS CARDS (NVINC)..... 0
NO. OF ELEMENT GROUPS (NEG)..... 5
NO. OF SOLUTION STEPS (NSTE)..... 6
NO. OF ELEMENT SETS ATTACHED TO SLAVE NODES ... 0
NO. OF RECORD FROM WALGEN ..... 122
NO. OF LONG NAMES (LASTNAME) ..... 24
LENGTH UNIT CHOICE ..... 3 (M )
FORCE UNIT CHOICE ..... 3 (KN )
MAX PORE PRESSURE TABLE LENGTH..... 1
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.

```



```

+-----+
|                PARATIE PLUS 2014 NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Sept23, 2015*                |
|                                                                                                                    |
|                NewProject.BaseDesignSection_25.Nominal_60                                                         |
|                Exe Time :29 June 2020      17:50:46                                                                |
+-----+

```

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 122

```

1 : UNIT m kN
2 : TITLE New Project
3 : DELTA 0.2
4 : option param itemax 40
5 : WALL LeftWall_29 0 -16 2 1
6 : SOIL 0_L LeftWall_29 -16 2 1 0
7 : SOIL 0_R LeftWall_29 -16 2 2 180
8 : LDATA FRANA_334_8_L_0 2 LeftWall_29
9 : ATREST 0.758 1 1
10 : WEIGHT 20 10 10
11 : PERMEABILITY 1E-05
12 : RESISTANCE 0 14
13 : YOUNG 1.5E+04 2.4E+04
14 : ENDL
15 : LDATA BNA3(2)_335_337_L_0 -2 LeftWall_29
16 : ATREST 0.581 1 1
17 : WEIGHT 20 10 10
18 : PERMEABILITY 1E-05
19 : RESISTANCE 2 24.8
20 : YOUNG 5E+04 8E+04
21 : ENDL
22 : LDATA BNA3(3)_336_338_L_0 -13 LeftWall_29
23 : ATREST 0.65 1 1
24 : WEIGHT 20 10 10
25 : PERMEABILITY 1E-05
26 : RESISTANCE 24 20.5
27 : YOUNG 7.5E+04 1.2E+05
28 : ENDL
29 : MATERIAL Fe360_2753 2.06E+08
30 : MATERIAL C2530_101 3.148E+07
31 : MATERIAL acciaioarmonico_110 2.001E+08
32 : BEAM WallElement_30 LeftWall_29 -16 2 C2530_101 0.7888 00 00
33 : WIRE Tieback_341 LeftWall_29 -2.1 acciaioarmonico_110 8.274E-06 110.4 0 0 0
34 : WIRE Tieback_342 LeftWall_29 -6.1 acciaioarmonico_110 9.145E-06 125 0 0 0
35 : STRIP LeftWall_29 1 6 31 30.5 2 54.6 45
36 : STEP Stage1_28
37 : CHANGE FRANA_334_8_L_0 U-FRICT=14 LeftWall_29
38 : CHANGE FRANA_334_8_L_0 D-FRICT=14 LeftWall_29
39 : CHANGE FRANA_334_8_L_0 U-KA=0.61 LeftWall_29
40 : CHANGE FRANA_334_8_L_0 U-KP=1.85 LeftWall_29
41 : CHANGE FRANA_334_8_L_0 D-KA=0.61 LeftWall_29
42 : CHANGE FRANA_334_8_L_0 D-KP=1.85 LeftWall_29
43 : CHANGE BNA3(2)_335_337_L_0 U-FRICT=24.8 LeftWall_29
44 : CHANGE BNA3(2)_335_337_L_0 D-FRICT=24.8 LeftWall_29
45 : CHANGE BNA3(2)_335_337_L_0 U-KA=0.409 LeftWall_29
46 : CHANGE BNA3(2)_335_337_L_0 U-KP=3.187 LeftWall_29
47 : CHANGE BNA3(2)_335_337_L_0 D-KA=0.409 LeftWall_29
48 : CHANGE BNA3(2)_335_337_L_0 D-KP=3.187 LeftWall_29
49 : CHANGE BNA3(3)_336_338_L_0 U-FRICT=20.5 LeftWall_29
50 : CHANGE BNA3(3)_336_338_L_0 D-FRICT=20.5 LeftWall_29
51 : CHANGE BNA3(3)_336_338_L_0 U-KA=0.481 LeftWall_29
52 : CHANGE BNA3(3)_336_338_L_0 U-KP=2.541 LeftWall_29
53 : CHANGE BNA3(3)_336_338_L_0 D-KA=0.481 LeftWall_29
54 : CHANGE BNA3(3)_336_338_L_0 D-KP=2.541 LeftWall_29
55 : CHANGE FRANA_334_8_L_0 U-COHE=0 LeftWall_29
56 : CHANGE FRANA_334_8_L_0 D-COHE=0 LeftWall_29
57 : CHANGE BNA3(2)_335_337_L_0 U-COHE=2 LeftWall_29
58 : CHANGE BNA3(2)_335_337_L_0 D-COHE=2 LeftWall_29
59 : CHANGE BNA3(3)_336_338_L_0 U-COHE=24 LeftWall_29
60 : CHANGE BNA3(3)_336_338_L_0 D-COHE=24 LeftWall_29
61 : SETWALL LeftWall_29
62 : GEOM 0.5 0.5
63 : WATER -14.8 0 -16 0 0
64 : ADD WallElement_30
65 : ENDSTEP
66 : STEP Stage2_344
67 : CHANGE FRANA_334_8_L_0 D-FRICT=14 LeftWall_29
68 : CHANGE BNA3(2)_335_337_L_0 D-FRICT=24.8 LeftWall_29
69 : CHANGE BNA3(3)_336_338_L_0 D-FRICT=20.5 LeftWall_29
70 : CHANGE FRANA_334_8_L_0 D-COHE=0 LeftWall_29
71 : CHANGE BNA3(2)_335_337_L_0 D-COHE=2 LeftWall_29
72 : CHANGE BNA3(3)_336_338_L_0 D-COHE=24 LeftWall_29
73 : SETWALL LeftWall_29
74 : GEOM 0.5 -3.1
75 : WATER -14.8 0 -16 0 0
76 : ENDSTEP
77 : STEP Tirante1_1139
78 : CHANGE FRANA_334_8_L_0 D-FRICT=14 LeftWall_29
79 : CHANGE BNA3(2)_335_337_L_0 D-FRICT=24.8 LeftWall_29

```

```
80 : CHANGE BNA3(3)_336_338_L_0 D-FRICT=20.5 LeftWall_29
81 : CHANGE FRANA_334_8_L_0 D-COHE=0 LeftWall_29
82 : CHANGE BNA3(2)_335_337_L_0 D-COHE=2 LeftWall_29
83 : CHANGE BNA3(3)_336_338_L_0 D-COHE=24 LeftWall_29
84 : SETWALL LeftWall_29
85 : GEOM 0.5 -3.1
86 : WATER -14.8 0 -16 0 0
87 : ADD Tieback_341
88 : ENDSTEP
89 : STEP Stage4_1238
90 : CHANGE FRANA_334_8_L_0 D-FRICT=14 LeftWall_29
91 : CHANGE BNA3(2)_335_337_L_0 D-FRICT=24.8 LeftWall_29
92 : CHANGE BNA3(3)_336_338_L_0 D-FRICT=20.5 LeftWall_29
93 : CHANGE FRANA_334_8_L_0 D-COHE=0 LeftWall_29
94 : CHANGE BNA3(2)_335_337_L_0 D-COHE=2 LeftWall_29
95 : CHANGE BNA3(3)_336_338_L_0 D-COHE=24 LeftWall_29
96 : SETWALL LeftWall_29
97 : GEOM 0.5 -7.1
98 : WATER -14.8 0 -16 0 0
99 : ENDSTEP
100 : STEP Tirante2_1685
101 : CHANGE FRANA_334_8_L_0 D-FRICT=14 LeftWall_29
102 : CHANGE BNA3(2)_335_337_L_0 D-FRICT=24.8 LeftWall_29
103 : CHANGE BNA3(3)_336_338_L_0 D-FRICT=20.5 LeftWall_29
104 : CHANGE FRANA_334_8_L_0 D-COHE=0 LeftWall_29
105 : CHANGE BNA3(2)_335_337_L_0 D-COHE=2 LeftWall_29
106 : CHANGE BNA3(3)_336_338_L_0 D-COHE=24 LeftWall_29
107 : SETWALL LeftWall_29
108 : GEOM 0.5 -7.1
109 : WATER -14.8 0 -16 0 0
110 : ADD Tieback_342
111 : ENDSTEP
112 : STEP Fondoscavo_2741
113 : CHANGE FRANA_334_8_L_0 D-FRICT=14 LeftWall_29
114 : CHANGE BNA3(2)_335_337_L_0 D-FRICT=24.8 LeftWall_29
115 : CHANGE BNA3(3)_336_338_L_0 D-FRICT=20.5 LeftWall_29
116 : CHANGE FRANA_334_8_L_0 D-COHE=0 LeftWall_29
117 : CHANGE BNA3(2)_335_337_L_0 D-COHE=2 LeftWall_29
118 : CHANGE BNA3(3)_336_338_L_0 D-COHE=24 LeftWall_29
119 : SETWALL LeftWall_29
120 : GEOM 2 -8.5
121 : WATER -30 0 -16 0 0
122 : ENDSTEP
```

```

+-----+
|          PARATIE PLUS 2014 NLS ENGINE RELEASE  2016  FULL VERSION  *Build date: Sept23, 2015*          |
|                                                                                                                                            |
|                                                                 NewProject.BaseDesignSection_25.Nominal_60                               |
|                                                                 Exe Time :29 June 2020      17:50:46                               |
+-----+

```

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	0.0000	2.0000 /	2	0.0000	1.8000 /	3	0.0000	1.6000 /	4	0.0000	1.4000 /
5	0.0000	1.2000 /	6	0.0000	1.0000 /	7	0.0000	0.80000 /	8	0.0000	0.60000 /
9	0.0000	0.40000 /	10	0.0000	0.20000 /	11	0.0000	-1.49012E-07 /	12	0.0000	-0.20000 /
13	0.0000	-0.40000 /	14	0.0000	-0.60000 /	15	0.0000	-0.80000 /	16	0.0000	-1.0000 /
17	0.0000	-1.2000 /	18	0.0000	-1.4000 /	19	0.0000	-1.6000 /	20	0.0000	-1.8000 /
21	0.0000	-2.0000 /	22	0.0000	-2.1000 /	23	0.0000	-2.3000 /	24	0.0000	-2.5000 /
25	0.0000	-2.7000 /	26	0.0000	-2.9000 /	27	0.0000	-3.1000 /	28	0.0000	-3.3000 /
29	0.0000	-3.5000 /	30	0.0000	-3.7000 /	31	0.0000	-3.9000 /	32	0.0000	-4.1000 /
33	0.0000	-4.3000 /	34	0.0000	-4.5000 /	35	0.0000	-4.7000 /	36	0.0000	-4.9000 /
37	0.0000	-5.1000 /	38	0.0000	-5.3000 /	39	0.0000	-5.5000 /	40	0.0000	-5.7000 /
41	0.0000	-5.9000 /	42	0.0000	-6.1000 /	43	0.0000	-6.3000 /	44	0.0000	-6.5000 /
45	0.0000	-6.7000 /	46	0.0000	-6.9000 /	47	0.0000	-7.1000 /	48	0.0000	-7.3000 /
49	0.0000	-7.5000 /	50	0.0000	-7.7000 /	51	0.0000	-7.9000 /	52	0.0000	-8.1000 /
53	0.0000	-8.3000 /	54	0.0000	-8.5000 /	55	0.0000	-8.7000 /	56	0.0000	-8.9000 /
57	0.0000	-9.1000 /	58	0.0000	-9.3000 /	59	0.0000	-9.5000 /	60	0.0000	-9.7000 /
61	0.0000	-9.9000 /	62	0.0000	-10.100 /	63	0.0000	-10.300 /	64	0.0000	-10.500 /
65	0.0000	-10.700 /	66	0.0000	-10.900 /	67	0.0000	-11.100 /	68	0.0000	-11.300 /
69	0.0000	-11.500 /	70	0.0000	-11.700 /	71	0.0000	-11.900 /	72	0.0000	-12.100 /
73	0.0000	-12.300 /	74	0.0000	-12.500 /	75	0.0000	-12.700 /	76	0.0000	-12.900 /
77	0.0000	-13.100 /	78	0.0000	-13.300 /	79	0.0000	-13.500 /	80	0.0000	-13.700 /
81	0.0000	-13.900 /	82	0.0000	-14.100 /	83	0.0000	-14.300 /	84	0.0000	-14.500 /
85	0.0000	-14.700 /	86	0.0000	-14.900 /	87	0.0000	-15.100 /	88	0.0000	-15.300 /
89	0.0000	-15.500 /	90	0.0000	-15.700 /	91	0.0000	-15.900 /	92	0.0000	-16.000 /

```

+-----+
|          PARATIE PLUS 2014 NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Sept23, 2015*          |
|                                                                                                    |
|                               NewProject.BaseDesignSection_25.Nominal_60                               |
|                               Exe Time :29 June 2020      17:50:46                               |
+-----+

```

ELEMENT GROUP NO. 1

```

0_L      :
 5 92  0  1  0  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
5 active
6 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	0.1500	0.000	0.000	0.000	1.000
22	22	2	0.1500	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	2	0.2000	0.000	0.000	0.000	1.000

42	42	2	0.2000	0.000	0.000	0.000	1.000
43	43	2	0.2000	0.000	0.000	0.000	1.000
44	44	2	0.2000	0.000	0.000	0.000	1.000
45	45	2	0.2000	0.000	0.000	0.000	1.000
46	46	2	0.2000	0.000	0.000	0.000	1.000
47	47	2	0.2000	0.000	0.000	0.000	1.000
48	48	2	0.2000	0.000	0.000	0.000	1.000
49	49	2	0.2000	0.000	0.000	0.000	1.000
50	50	2	0.2000	0.000	0.000	0.000	1.000
51	51	2	0.2000	0.000	0.000	0.000	1.000
52	52	2	0.2000	0.000	0.000	0.000	1.000
53	53	2	0.2000	0.000	0.000	0.000	1.000
54	54	2	0.2000	0.000	0.000	0.000	1.000
55	55	2	0.2000	0.000	0.000	0.000	1.000
56	56	2	0.2000	0.000	0.000	0.000	1.000
57	57	2	0.2000	0.000	0.000	0.000	1.000
58	58	2	0.2000	0.000	0.000	0.000	1.000
59	59	2	0.2000	0.000	0.000	0.000	1.000
60	60	2	0.2000	0.000	0.000	0.000	1.000
61	61	2	0.2000	0.000	0.000	0.000	1.000
62	62	2	0.2000	0.000	0.000	0.000	1.000
63	63	2	0.2000	0.000	0.000	0.000	1.000
64	64	2	0.2000	0.000	0.000	0.000	1.000
65	65	2	0.2000	0.000	0.000	0.000	1.000
66	66	2	0.2000	0.000	0.000	0.000	1.000
67	67	2	0.2000	0.000	0.000	0.000	1.000
68	68	2	0.2000	0.000	0.000	0.000	1.000
69	69	2	0.2000	0.000	0.000	0.000	1.000
70	70	2	0.2000	0.000	0.000	0.000	1.000
71	71	2	0.2000	0.000	0.000	0.000	1.000
72	72	2	0.2000	0.000	0.000	0.000	1.000
73	73	2	0.2000	0.000	0.000	0.000	1.000
74	74	2	0.2000	0.000	0.000	0.000	1.000
75	75	2	0.2000	0.000	0.000	0.000	1.000
76	76	2	0.2000	0.000	0.000	0.000	1.000
77	77	3	0.2000	0.000	0.000	0.000	1.000
78	78	3	0.2000	0.000	0.000	0.000	1.000
79	79	3	0.2000	0.000	0.000	0.000	1.000
80	80	3	0.2000	0.000	0.000	0.000	1.000
81	81	3	0.2000	0.000	0.000	0.000	1.000
82	82	3	0.2000	0.000	0.000	0.000	1.000
83	83	3	0.2000	0.000	0.000	0.000	1.000
84	84	3	0.2000	0.000	0.000	0.000	1.000
85	85	3	0.2000	0.000	0.000	0.000	1.000
86	86	3	0.2000	0.000	0.000	0.000	1.000
87	87	3	0.2000	0.000	0.000	0.000	1.000
88	88	3	0.2000	0.000	0.000	0.000	1.000
89	89	3	0.2000	0.000	0.000	0.000	1.000
90	90	3	0.2000	0.000	0.000	0.000	1.000
91	91	3	0.1500	0.000	0.000	0.000	1.000
92	92	3	0.5000E-01	0.000	0.000	0.000	1.000

```

+-----+
|          PARATIE PLUS 2014 NLS ENGINE RELEASE  2016  FULL VERSION  *Build date: Sept23, 2015*          |
|                                                                                                                                            |
|                                                                 NewProject.BaseDesignSection_25.Nominal_60                               |
|                                                                 Exe Time :29 June 2020      17:50:46                               |
+-----+

```

ELEMENT GROUP NO. 2

```

0_R
 5 92 0 1 0 0 0 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
5 active
6 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	0.1500	0.000	0.000	0.000	2.000
22	22	2	0.1500	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	2	0.2000	0.000	0.000	0.000	2.000

42	42	2	0.2000	0.000	0.000	0.000	2.000
43	43	2	0.2000	0.000	0.000	0.000	2.000
44	44	2	0.2000	0.000	0.000	0.000	2.000
45	45	2	0.2000	0.000	0.000	0.000	2.000
46	46	2	0.2000	0.000	0.000	0.000	2.000
47	47	2	0.2000	0.000	0.000	0.000	2.000
48	48	2	0.2000	0.000	0.000	0.000	2.000
49	49	2	0.2000	0.000	0.000	0.000	2.000
50	50	2	0.2000	0.000	0.000	0.000	2.000
51	51	2	0.2000	0.000	0.000	0.000	2.000
52	52	2	0.2000	0.000	0.000	0.000	2.000
53	53	2	0.2000	0.000	0.000	0.000	2.000
54	54	2	0.2000	0.000	0.000	0.000	2.000
55	55	2	0.2000	0.000	0.000	0.000	2.000
56	56	2	0.2000	0.000	0.000	0.000	2.000
57	57	2	0.2000	0.000	0.000	0.000	2.000
58	58	2	0.2000	0.000	0.000	0.000	2.000
59	59	2	0.2000	0.000	0.000	0.000	2.000
60	60	2	0.2000	0.000	0.000	0.000	2.000
61	61	2	0.2000	0.000	0.000	0.000	2.000
62	62	2	0.2000	0.000	0.000	0.000	2.000
63	63	2	0.2000	0.000	0.000	0.000	2.000
64	64	2	0.2000	0.000	0.000	0.000	2.000
65	65	2	0.2000	0.000	0.000	0.000	2.000
66	66	2	0.2000	0.000	0.000	0.000	2.000
67	67	2	0.2000	0.000	0.000	0.000	2.000
68	68	2	0.2000	0.000	0.000	0.000	2.000
69	69	2	0.2000	0.000	0.000	0.000	2.000
70	70	2	0.2000	0.000	0.000	0.000	2.000
71	71	2	0.2000	0.000	0.000	0.000	2.000
72	72	2	0.2000	0.000	0.000	0.000	2.000
73	73	2	0.2000	0.000	0.000	0.000	2.000
74	74	2	0.2000	0.000	0.000	0.000	2.000
75	75	2	0.2000	0.000	0.000	0.000	2.000
76	76	2	0.2000	0.000	0.000	0.000	2.000
77	77	3	0.2000	0.000	0.000	0.000	2.000
78	78	3	0.2000	0.000	0.000	0.000	2.000
79	79	3	0.2000	0.000	0.000	0.000	2.000
80	80	3	0.2000	0.000	0.000	0.000	2.000
81	81	3	0.2000	0.000	0.000	0.000	2.000
82	82	3	0.2000	0.000	0.000	0.000	2.000
83	83	3	0.2000	0.000	0.000	0.000	2.000
84	84	3	0.2000	0.000	0.000	0.000	2.000
85	85	3	0.2000	0.000	0.000	0.000	2.000
86	86	3	0.2000	0.000	0.000	0.000	2.000
87	87	3	0.2000	0.000	0.000	0.000	2.000
88	88	3	0.2000	0.000	0.000	0.000	2.000
89	89	3	0.2000	0.000	0.000	0.000	2.000
90	90	3	0.2000	0.000	0.000	0.000	2.000
91	91	3	0.1500	0.000	0.000	0.000	2.000
92	92	3	0.5000E-01	0.000	0.000	0.000	2.000

```

+-----+
|          PARATIE PLUS 2014 NLS ENGINE RELEASE  2016  FULL VERSION  *Build date: Sept23, 2015*          |
|                                                                                                     |
|                                                                                                     |
|                                                                                                     |
|          NewProject.BaseDesignSection_25.Nominal_60          |
|          Exe Time :29 June 2020          17:50:46          |
+-----+

```

ELEMENT GROUP NO. 3

```

Wallelement_30
  2  91  0  1  0  0  0  0  0  0  0  0  0  0  0  0  1  0  0  0  1  0

```

.....2D WALL ELEMENT.....

element group behaviour throughout stage analysis

stage status

```

-----
1 active
2 active
3 active
4 active
5 active
6 active

```

material set no. 1

```

prop( 1) young modulus      0.314800E+08
prop( 2) modification time  0.00000
prop( 3) new young modulus  0.00000
prop( 4) poisson ratio      0.00000
prop( 5) future .....0.294300E-43

```

no. of step variable items: 1

step inertia multiplier

```

-----
1  1.000
2  1.000
3  1.000
4  1.000
5  1.000
6  1.000

```

element data

e1	na	nb	mat	erc1	erc2	thick
1	1	2	1	0.000	0.000	0.7888
2	2	3	1	0.000	0.000	0.7888
3	3	4	1	0.000	0.000	0.7888
4	4	5	1	0.000	0.000	0.7888
5	5	6	1	0.000	0.000	0.7888
6	6	7	1	0.000	0.000	0.7888
7	7	8	1	0.000	0.000	0.7888
8	8	9	1	0.000	0.000	0.7888
9	9	10	1	0.000	0.000	0.7888
10	10	11	1	0.000	0.000	0.7888
11	11	12	1	0.000	0.000	0.7888
12	12	13	1	0.000	0.000	0.7888
13	13	14	1	0.000	0.000	0.7888
14	14	15	1	0.000	0.000	0.7888
15	15	16	1	0.000	0.000	0.7888
16	16	17	1	0.000	0.000	0.7888
17	17	18	1	0.000	0.000	0.7888
18	18	19	1	0.000	0.000	0.7888
19	19	20	1	0.000	0.000	0.7888
20	20	21	1	0.000	0.000	0.7888
21	21	22	1	0.000	0.000	0.7888
22	22	23	1	0.000	0.000	0.7888
23	23	24	1	0.000	0.000	0.7888
24	24	25	1	0.000	0.000	0.7888
25	25	26	1	0.000	0.000	0.7888
26	26	27	1	0.000	0.000	0.7888
27	27	28	1	0.000	0.000	0.7888
28	28	29	1	0.000	0.000	0.7888
29	29	30	1	0.000	0.000	0.7888
30	30	31	1	0.000	0.000	0.7888
31	31	32	1	0.000	0.000	0.7888
32	32	33	1	0.000	0.000	0.7888
33	33	34	1	0.000	0.000	0.7888
34	34	35	1	0.000	0.000	0.7888
35	35	36	1	0.000	0.000	0.7888
36	36	37	1	0.000	0.000	0.7888
37	37	38	1	0.000	0.000	0.7888
38	38	39	1	0.000	0.000	0.7888
39	39	40	1	0.000	0.000	0.7888
40	40	41	1	0.000	0.000	0.7888
41	41	42	1	0.000	0.000	0.7888

42	42	43	1	0.000	0.000	0.7888
43	43	44	1	0.000	0.000	0.7888
44	44	45	1	0.000	0.000	0.7888
45	45	46	1	0.000	0.000	0.7888
46	46	47	1	0.000	0.000	0.7888
47	47	48	1	0.000	0.000	0.7888
48	48	49	1	0.000	0.000	0.7888
49	49	50	1	0.000	0.000	0.7888
50	50	51	1	0.000	0.000	0.7888
51	51	52	1	0.000	0.000	0.7888
52	52	53	1	0.000	0.000	0.7888
53	53	54	1	0.000	0.000	0.7888
54	54	55	1	0.000	0.000	0.7888
55	55	56	1	0.000	0.000	0.7888
56	56	57	1	0.000	0.000	0.7888
57	57	58	1	0.000	0.000	0.7888
58	58	59	1	0.000	0.000	0.7888
59	59	60	1	0.000	0.000	0.7888
60	60	61	1	0.000	0.000	0.7888
61	61	62	1	0.000	0.000	0.7888
62	62	63	1	0.000	0.000	0.7888
63	63	64	1	0.000	0.000	0.7888
64	64	65	1	0.000	0.000	0.7888
65	65	66	1	0.000	0.000	0.7888
66	66	67	1	0.000	0.000	0.7888
67	67	68	1	0.000	0.000	0.7888
68	68	69	1	0.000	0.000	0.7888
69	69	70	1	0.000	0.000	0.7888
70	70	71	1	0.000	0.000	0.7888
71	71	72	1	0.000	0.000	0.7888
72	72	73	1	0.000	0.000	0.7888
73	73	74	1	0.000	0.000	0.7888
74	74	75	1	0.000	0.000	0.7888
75	75	76	1	0.000	0.000	0.7888
76	76	77	1	0.000	0.000	0.7888
77	77	78	1	0.000	0.000	0.7888
78	78	79	1	0.000	0.000	0.7888
79	79	80	1	0.000	0.000	0.7888
80	80	81	1	0.000	0.000	0.7888
81	81	82	1	0.000	0.000	0.7888
82	82	83	1	0.000	0.000	0.7888
83	83	84	1	0.000	0.000	0.7888
84	84	85	1	0.000	0.000	0.7888
85	85	86	1	0.000	0.000	0.7888
86	86	87	1	0.000	0.000	0.7888
87	87	88	1	0.000	0.000	0.7888
88	88	89	1	0.000	0.000	0.7888
89	89	90	1	0.000	0.000	0.7888
90	90	91	1	0.000	0.000	0.7888
91	91	92	1	0.000	0.000	0.7888

```

+-----+
|          PARATIE PLUS 2014 NLS ENGINE RELEASE  2016  FULL VERSION  *Build date: Sept23, 2015*          |
|                                                                                                                                            |
|                                                                 NewProject.BaseDesignSection_25.Nominal_60                               |
|                                                                 Exe Time :29 June 2020      17:50:46                               |
+-----+

```

ELEMENT GROUP NO. 4

```

Tieback_341
6 1 0 1 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 2 0

```

```

.....
.....2D POST-TENSION ANCHOR.....
.....

```

element group behaviour throughout stage analysis

```

stage  status
-----
1  inactive
2  inactive
3  active
4  active
5  active
6  active

```

material set no. 1

```

prop( 1) angle          0.00000
prop( 2) young modulus  0.200100E+09
prop( 3) modification time 0.00000
prop( 4) new young modulus 0.00000

```

no. of step variable items: 2

step	-ve lim	+ve lim
1	0.000	0.000
2	0.000	0.000
3	0.000	0.000
4	0.000	0.000
5	0.000	0.000
6	0.000	0.000

element data

el	n	mat	a/l	pinit	yieldc	yieldt
1	22	1	0.8274E-05	110.4	0.000	0.000

```

+-----+
|          PARATIE PLUS 2014 NLS ENGINE RELEASE  2016  FULL VERSION  *Build date: Sept23, 2015*          |
|                                                                                                     |
|                               NewProject.BaseDesignSection_25.Nominal_60                             |
|                               Exe Time :29 June 2020      17:50:46                                 |
+-----+

```

ELEMENT GROUP NO. 5

```

Tieback_342
6 1 0 1 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 2 0
.....
.....2D POST-TENSION ANCHOR.....
.....

```

element group behaviour throughout stage analysis

```

stage  status
-----
1  inactive
2  inactive
3  inactive
4  inactive
5  active
6  active

```

material set no. 1

```

prop( 1) angle          0.00000
prop( 2) young modulus  0.200100E+09
prop( 3) modification time 0.00000
prop( 4) new young modulus 0.00000

```

no. of step variable items: 2

```

step  -ve lim  +ve lim
-----
1  0.000  0.000
2  0.000  0.000
3  0.000  0.000
4  0.000  0.000
5  0.000  0.000
6  0.000  0.000

```

element data

```

el  n  mat  a/l  pinit  yieldc  yieldt
-----
1  42  1  0.9145E-05  125.0  0.000  0.000

```

```
+-----+
|          PARATIE PLUS 2014 NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Sept23, 2015*          |
|                                                                                                                                            |
|                                                                 NewProject.BaseDesignSection_25.Nominal_60                               |
|                                                                 Exe Time :29 June 2020      17:50:46                               |
+-----+
```

```
NO. OF NODAL LOADS (NLOAD) ..... 0
NO. OF LOAD CURVES (NLCUR) ..... 12
MAXIMUM POINTS/LCURVE (NPTM)..... 5
```

```

+-----+
|          PARATIE PLUS 2014 NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Sept23, 2015*          |
|                                                                                                    |
|                               NewProject.BaseDesignSection_25.Nominal_60                               |
|                               Exe Time :29 June 2020      17:50:46                               |
+-----+

```

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
7.00000	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
7.00000	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
7.00000	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
7.00000	0.0000E+00

LOAD FUNCTION NUMBER = 5
NUMBER OF TIME POINTS = 5

TIME VALUE	FUNCTION
0.00000	0.0000E+00
4.80000	0.0000E+00
5.00000	0.1000E+01
5.20000	0.0000E+00
7.00000	0.0000E+00

LOAD FUNCTION NUMBER = 6
NUMBER OF TIME POINTS = 5

TIME VALUE	FUNCTION
0.00000	0.0000E+00
5.80000	0.0000E+00
6.00000	0.1000E+01
6.20000	0.0000E+00
7.00000	0.0000E+00

LOAD FUNCTION NUMBER = 7

NUMBER OF TIME POINTS = 4

TIME VALUE	FUNCTION
0.00000	0.0000E+00
0.80000	0.0000E+00
1.00000	0.1000E+01
7.00000	0.1000E+01

LOAD FUNCTION NUMBER = 8
NUMBER OF TIME POINTS = 4

TIME VALUE	FUNCTION
0.00000	0.0000E+00
1.80000	0.0000E+00
2.00000	0.1000E+01
7.00000	0.1000E+01

LOAD FUNCTION NUMBER = 9
NUMBER OF TIME POINTS = 4

TIME VALUE	FUNCTION
0.00000	0.0000E+00
2.80000	0.0000E+00
3.00000	0.1000E+01
7.00000	0.1000E+01

LOAD FUNCTION NUMBER = 10
NUMBER OF TIME POINTS = 4

TIME VALUE	FUNCTION
0.00000	0.0000E+00
3.80000	0.0000E+00
4.00000	0.1000E+01
7.00000	0.1000E+01

LOAD FUNCTION NUMBER = 11
NUMBER OF TIME POINTS = 4

TIME VALUE	FUNCTION
0.00000	0.0000E+00
4.80000	0.0000E+00
5.00000	0.1000E+01
7.00000	0.1000E+01

LOAD FUNCTION NUMBER = 12
NUMBER OF TIME POINTS = 4

TIME VALUE	FUNCTION
0.00000	0.0000E+00
5.80000	0.0000E+00
6.00000	0.1000E+01
7.00000	0.1000E+01

NO. OF DISTRIBUTED LOAD CARDS 0

```

+-----+
|          PARATIE PLUS 2014 NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Sept23, 2015*          |
|                                                                                                    |
|                               NewProject.BaseDesignSection_25.Nominal_60                            |
|                               Exe Time :29 June 2020      17:50:46                                |
+-----+

```

```

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

STEP 5 TOTAL APPLIED LOAD IN DIR. 2 Y-DISPL.F      0.0000000
STEP 5 TOTAL APPLIED LOAD IN DIR. 4 X-ROT. F      0.0000000

STEP 6 TOTAL APPLIED LOAD IN DIR. 2 Y-DISPL.F      0.0000000
STEP 6 TOTAL APPLIED LOAD IN DIR. 4 X-ROT. F      0.0000000

```

LOAD INPUT SECTION COMPLETED

```
+-----+
|          PARATIE PLUS 2014 NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Sept23, 2015*          |
|                                                                                                                                            |
|                                                                 NewProject.BaseDesignSection_25.Nominal_60                               |
|                                                                 Exe Time :29 June 2020      17:50:46                               |
+-----+
```

```
NO. OF LAYERS ..... 3
NO. OF DATA PER LAYER..... 100
```



```

+-----+
|                PARATIE PLUS 2014 NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Sept23, 2015*                |
|                                                                                                                                            |
|                                                                 NewProject.BaseDesignSection_25.Nominal_60                               |
|                                                                 Exe Time :29 June 2020      17:50:46                               |
+-----+

```

LAYER DESCRIPTORS FOR STEP NO. 1

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

```

ITEM NO. 1<NAME      >= 16.000    (BOTH WALLS)
ITEM NO. 2<NATURE   >= 1.0000   (BOTH WALLS)
ITEM NO. 3<LEVEL    >= 2.0000   (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. 9<U-FRICT  >= 14.000   (BOTH WALLS)
ITEM NO. 10<U-KA    >= 0.61000  WALL NO.      1
ITEM NO. 11<U-KP    >= 1.8500   WALL NO.      1
ITEM NO. 12<K0-NC   >= 0.75800   (BOTH WALLS)
ITEM NO. 13<NEXP    >= 1.0000   (BOTH WALLS)
ITEM NO. 14<OCR     >= 1.0000   (BOTH WALLS)
ITEM NO. 16<MODEL   >= 1.0000   (BOTH WALLS)
ITEM NO. 17<EVC     >= 15000.   (BOTH WALLS)
ITEM NO. 18<EUR     >= 24000.   (BOTH WALLS)
ITEM NO. 27<U-PERM  >= 0.10000E-04 (BOTH WALLS)
ITEM NO. 52<D-NATURE>= 1.0000   (BOTH WALLS)
ITEM NO. 53<D-LEVEL >= 0.0000   (BOTH WALLS)
ITEM NO. 59<D-FRICT >= 14.000   (BOTH WALLS)
ITEM NO. 60<D-KA    >= 0.61000  WALL NO.      1
ITEM NO. 61<D-KP    >= 1.8500   WALL NO.      1
ITEM NO. 77<D-PERM  >= 0.10000E-04 (BOTH WALLS)

```

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

```

ITEM NO. 1<NAME      >= 17.000    (BOTH WALLS)
ITEM NO. 2<NATURE   >= 1.0000   (BOTH WALLS)
ITEM NO. 3<LEVEL    >= -2.0000  (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   >= 2.0000   (BOTH WALLS)
ITEM NO. 9<U-FRICT  >= 24.800   (BOTH WALLS)
ITEM NO. 10<U-KA    >= 0.40900  WALL NO.      1
ITEM NO. 11<U-KP    >= 3.1870   WALL NO.      1
ITEM NO. 12<K0-NC   >= 0.58100   (BOTH WALLS)
ITEM NO. 13<NEXP    >= 1.0000   (BOTH WALLS)
ITEM NO. 14<OCR     >= 1.0000   (BOTH WALLS)
ITEM NO. 16<MODEL   >= 1.0000   (BOTH WALLS)
ITEM NO. 17<EVC     >= 50000.   (BOTH WALLS)
ITEM NO. 18<EUR     >= 80000.   (BOTH WALLS)
ITEM NO. 27<U-PERM  >= 0.10000E-04 (BOTH WALLS)
ITEM NO. 52<D-NATURE>= 1.0000   (BOTH WALLS)
ITEM NO. 53<D-LEVEL >= 0.0000   (BOTH WALLS)
ITEM NO. 58<D-COHE  >= 2.0000   (BOTH WALLS)
ITEM NO. 59<D-FRICT >= 24.800   (BOTH WALLS)
ITEM NO. 60<D-KA    >= 0.40900  WALL NO.      1
ITEM NO. 61<D-KP    >= 3.1870   WALL NO.      1
ITEM NO. 77<D-PERM  >= 0.10000E-04 (BOTH WALLS)

```

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

```

ITEM NO. 1<NAME      >= 18.000    (BOTH WALLS)
ITEM NO. 2<NATURE   >= 1.0000   (BOTH WALLS)
ITEM NO. 3<LEVEL    >= -13.000   (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   >= 24.000   (BOTH WALLS)
ITEM NO. 9<U-FRICT  >= 20.500   (BOTH WALLS)
ITEM NO. 10<U-KA    >= 0.48100  WALL NO.      1
ITEM NO. 11<U-KP    >= 2.5410   WALL NO.      1
ITEM NO. 12<K0-NC   >= 0.65000   (BOTH WALLS)
ITEM NO. 13<NEXP    >= 1.0000   (BOTH WALLS)
ITEM NO. 14<OCR     >= 1.0000   (BOTH WALLS)
ITEM NO. 16<MODEL   >= 1.0000   (BOTH WALLS)
ITEM NO. 17<EVC     >= 75000.   (BOTH WALLS)
ITEM NO. 18<EUR     >= 0.12000E+06 (BOTH WALLS)
ITEM NO. 27<U-PERM  >= 0.10000E-04 (BOTH WALLS)
ITEM NO. 52<D-NATURE>= 1.0000   (BOTH WALLS)
ITEM NO. 53<D-LEVEL >= 0.0000   (BOTH WALLS)
ITEM NO. 58<D-COHE  >= 24.000   (BOTH WALLS)
ITEM NO. 59<D-FRICT >= 20.500   (BOTH WALLS)
ITEM NO. 60<D-KA    >= 0.48100  WALL NO.      1

```

ITEM NO. 61<D-KP >= 2.5410 WALL NO. 1
ITEM NO. 77<D-PERM >= 0.10000E-04 (BOTH WALLS)

LAYER DESCRIPTORS FOR STEP NO. 2

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

ITEM NO. 1<NAME >= 16.000 (BOTH WALLS)
ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
ITEM NO. 3<LEVEL >= 2.0000 (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. 9<U-FRICT >= 14.000 (BOTH WALLS)
ITEM NO. 10<U-KA >= 0.61000 WALL NO. 1
ITEM NO. 11<U-KP >= 1.8500 WALL NO. 1
ITEM NO. 12<K0-NC >= 0.75800 (BOTH WALLS)
ITEM NO. 13<NEXP >= 1.0000 (BOTH WALLS)
ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)
ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)
ITEM NO. 17<EVC >= 15000. (BOTH WALLS)
ITEM NO. 18<EUR >= 24000. (BOTH WALLS)
ITEM NO. 27<U-PERM >= 0.10000E-04 (BOTH WALLS)
ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
ITEM NO. 59<D-FRICT >= 14.000 (BOTH WALLS)
ITEM NO. 60<D-KA >= 0.61000 WALL NO. 1
ITEM NO. 61<D-KP >= 1.8500 WALL NO. 1
ITEM NO. 77<D-PERM >= 0.10000E-04 (BOTH WALLS)

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

ITEM NO. 1<NAME >= 17.000 (BOTH WALLS)
ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
ITEM NO. 3<LEVEL >= -2.0000 (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 >= 2.0000 (BOTH WALLS)
ITEM NO. 9<U-FRICT >= 24.800 (BOTH WALLS)
ITEM NO. 10<U-KA >= 0.40900 WALL NO. 1
ITEM NO. 11<U-KP >= 3.1870 WALL NO. 1
ITEM NO. 12<K0-NC >= 0.58100 (BOTH WALLS)
ITEM NO. 13<NEXP >= 1.0000 (BOTH WALLS)
ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)
ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)
ITEM NO. 17<EVC >= 50000. (BOTH WALLS)
ITEM NO. 18<EUR >= 80000. (BOTH WALLS)
ITEM NO. 27<U-PERM >= 0.10000E-04 (BOTH WALLS)
ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
ITEM NO. 58<D-COHE >= 2.0000 (BOTH WALLS)
ITEM NO. 59<D-FRICT >= 24.800 (BOTH WALLS)
ITEM NO. 60<D-KA >= 0.40900 WALL NO. 1
ITEM NO. 61<D-KP >= 3.1870 WALL NO. 1
ITEM NO. 77<D-PERM >= 0.10000E-04 (BOTH WALLS)

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

ITEM NO. 1<NAME >= 18.000 (BOTH WALLS)
ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
ITEM NO. 3<LEVEL >= -13.000 (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 >= 24.000 (BOTH WALLS)
ITEM NO. 9<U-FRICT >= 20.500 (BOTH WALLS)
ITEM NO. 10<U-KA >= 0.48100 WALL NO. 1
ITEM NO. 11<U-KP >= 2.5410 WALL NO. 1
ITEM NO. 12<K0-NC >= 0.65000 (BOTH WALLS)
ITEM NO. 13<NEXP >= 1.0000 (BOTH WALLS)
ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)
ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)
ITEM NO. 17<EVC >= 75000. (BOTH WALLS)
ITEM NO. 18<EUR >= 0.12000E+06 (BOTH WALLS)
ITEM NO. 27<U-PERM >= 0.10000E-04 (BOTH WALLS)
ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
ITEM NO. 58<D-COHE >= 24.000 (BOTH WALLS)
ITEM NO. 59<D-FRICT >= 20.500 (BOTH WALLS)
ITEM NO. 60<D-KA >= 0.48100 WALL NO. 1
ITEM NO. 61<D-KP >= 2.5410 WALL NO. 1
ITEM NO. 77<D-PERM >= 0.10000E-04 (BOTH WALLS)

LAYER DESCRIPTORS FOR STEP NO. 3

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

ITEM NO. 1<NAME >= 16.000 (BOTH WALLS)
ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
ITEM NO. 3<LEVEL >= 2.0000 (BOTH WALLS)
ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)
ITEM NO. 5<GAMMAD >= 20.0000 (BOTH WALLS)
ITEM NO. 6<GAMMAB >= 10.0000 (BOTH WALLS)
ITEM NO. 7<GAMMAW >= 10.0000 (BOTH WALLS)
ITEM NO. 9<U-FRICT >= 14.0000 (BOTH WALLS)
ITEM NO. 10<U-KA >= 0.61000 WALL NO. 1
ITEM NO. 11<U-KP >= 1.8500 WALL NO. 1
ITEM NO. 12<K0-NC >= 0.75800 (BOTH WALLS)
ITEM NO. 13<NEXP >= 1.0000 (BOTH WALLS)
ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)
ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)
ITEM NO. 17<EVC >= 15000. (BOTH WALLS)
ITEM NO. 18<EUR >= 24000. (BOTH WALLS)
ITEM NO. 27<U-PERM >= 0.10000E-04 (BOTH WALLS)
ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
ITEM NO. 59<D-FRICT >= 14.000 (BOTH WALLS)
ITEM NO. 60<D-KA >= 0.61000 WALL NO. 1
ITEM NO. 61<D-KP >= 1.8500 WALL NO. 1
ITEM NO. 77<D-PERM >= 0.10000E-04 (BOTH WALLS)

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

ITEM NO. 1<NAME >= 17.000 (BOTH WALLS)
ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
ITEM NO. 3<LEVEL >= -2.0000 (BOTH WALLS)
ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)
ITEM NO. 5<GAMMAD >= 20.0000 (BOTH WALLS)
ITEM NO. 6<GAMMAB >= 10.0000 (BOTH WALLS)
ITEM NO. 7<GAMMAW >= 10.0000 (BOTH WALLS)
ITEM NO. 8<U-COHE >= 2.0000 (BOTH WALLS)
ITEM NO. 9<U-FRICT >= 24.800 (BOTH WALLS)
ITEM NO. 10<U-KA >= 0.40900 WALL NO. 1
ITEM NO. 11<U-KP >= 3.1870 WALL NO. 1
ITEM NO. 12<K0-NC >= 0.58100 (BOTH WALLS)
ITEM NO. 13<NEXP >= 1.0000 (BOTH WALLS)
ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)
ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)
ITEM NO. 17<EVC >= 50000. (BOTH WALLS)
ITEM NO. 18<EUR >= 80000. (BOTH WALLS)
ITEM NO. 27<U-PERM >= 0.10000E-04 (BOTH WALLS)
ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
ITEM NO. 58<D-COHE >= 2.0000 (BOTH WALLS)
ITEM NO. 59<D-FRICT >= 24.800 (BOTH WALLS)
ITEM NO. 60<D-KA >= 0.40900 WALL NO. 1
ITEM NO. 61<D-KP >= 3.1870 WALL NO. 1
ITEM NO. 77<D-PERM >= 0.10000E-04 (BOTH WALLS)

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

ITEM NO. 1<NAME >= 18.000 (BOTH WALLS)
ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
ITEM NO. 3<LEVEL >= -13.0000 (BOTH WALLS)
ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)
ITEM NO. 5<GAMMAD >= 20.0000 (BOTH WALLS)
ITEM NO. 6<GAMMAB >= 10.0000 (BOTH WALLS)
ITEM NO. 7<GAMMAW >= 10.0000 (BOTH WALLS)
ITEM NO. 8<U-COHE >= 24.0000 (BOTH WALLS)
ITEM NO. 9<U-FRICT >= 20.500 (BOTH WALLS)
ITEM NO. 10<U-KA >= 0.48100 WALL NO. 1
ITEM NO. 11<U-KP >= 2.5410 WALL NO. 1
ITEM NO. 12<K0-NC >= 0.65000 (BOTH WALLS)
ITEM NO. 13<NEXP >= 1.0000 (BOTH WALLS)
ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)
ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)
ITEM NO. 17<EVC >= 75000. (BOTH WALLS)
ITEM NO. 18<EUR >= 0.12000E+06 (BOTH WALLS)
ITEM NO. 27<U-PERM >= 0.10000E-04 (BOTH WALLS)
ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
ITEM NO. 58<D-COHE >= 24.000 (BOTH WALLS)
ITEM NO. 59<D-FRICT >= 20.500 (BOTH WALLS)
ITEM NO. 60<D-KA >= 0.48100 WALL NO. 1
ITEM NO. 61<D-KP >= 2.5410 WALL NO. 1
ITEM NO. 77<D-PERM >= 0.10000E-04 (BOTH WALLS)

LAYER DESCRIPTORS FOR STEP NO. 4

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

ITEM NO. 1<NAME >= 16.000 (BOTH WALLS)
ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
ITEM NO. 3<LEVEL >= 2.0000 (BOTH WALLS)
ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)
ITEM NO. 5<GAMMAD >= 20.0000 (BOTH WALLS)
ITEM NO. 6<GAMMAB >= 10.0000 (BOTH WALLS)

ITEM NO. 7<GAMMAW >= 10.000 (BOTH WALLS)
ITEM NO. 9<U-FRICT >= 14.000 (BOTH WALLS)
ITEM NO. 10<U-KA >= 0.61000 WALL NO. 1
ITEM NO. 11<U-KP >= 1.8500 WALL NO. 1
ITEM NO. 12<K0-NC >= 0.75800 (BOTH WALLS)
ITEM NO. 13<NEXP >= 1.0000 (BOTH WALLS)
ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)
ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)
ITEM NO. 17<EVC >= 15000. (BOTH WALLS)
ITEM NO. 18<EUR >= 24000. (BOTH WALLS)
ITEM NO. 27<U-PERM >= 0.10000E-04 (BOTH WALLS)
ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
ITEM NO. 59<D-FRICT >= 14.000 (BOTH WALLS)
ITEM NO. 60<D-KA >= 0.61000 WALL NO. 1
ITEM NO. 61<D-KP >= 1.8500 WALL NO. 1
ITEM NO. 77<D-PERM >= 0.10000E-04 (BOTH WALLS)

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

ITEM NO. 1<NAME >= 17.000 (BOTH WALLS)
ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
ITEM NO. 3<LEVEL >= -2.0000 (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 >= 2.0000 (BOTH WALLS)
ITEM NO. 9<U-FRICT >= 24.800 (BOTH WALLS)
ITEM NO. 10<U-KA >= 0.40900 WALL NO. 1
ITEM NO. 11<U-KP >= 3.1870 WALL NO. 1
ITEM NO. 12<K0-NC >= 0.58100 (BOTH WALLS)
ITEM NO. 13<NEXP >= 1.0000 (BOTH WALLS)
ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)
ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)
ITEM NO. 17<EVC >= 50000. (BOTH WALLS)
ITEM NO. 18<EUR >= 80000. (BOTH WALLS)
ITEM NO. 27<U-PERM >= 0.10000E-04 (BOTH WALLS)
ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
ITEM NO. 58<D-COHE >= 2.0000 (BOTH WALLS)
ITEM NO. 59<D-FRICT >= 24.800 (BOTH WALLS)
ITEM NO. 60<D-KA >= 0.40900 WALL NO. 1
ITEM NO. 61<D-KP >= 3.1870 WALL NO. 1
ITEM NO. 77<D-PERM >= 0.10000E-04 (BOTH WALLS)

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

ITEM NO. 1<NAME >= 18.000 (BOTH WALLS)
ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
ITEM NO. 3<LEVEL >= -13.000 (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 >= 24.000 (BOTH WALLS)
ITEM NO. 9<U-FRICT >= 20.500 (BOTH WALLS)
ITEM NO. 10<U-KA >= 0.48100 WALL NO. 1
ITEM NO. 11<U-KP >= 2.5410 WALL NO. 1
ITEM NO. 12<K0-NC >= 0.65000 (BOTH WALLS)
ITEM NO. 13<NEXP >= 1.0000 (BOTH WALLS)
ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)
ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)
ITEM NO. 17<EVC >= 75000. (BOTH WALLS)
ITEM NO. 18<EUR >= 0.12000E+06 (BOTH WALLS)
ITEM NO. 27<U-PERM >= 0.10000E-04 (BOTH WALLS)
ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
ITEM NO. 58<D-COHE >= 24.000 (BOTH WALLS)
ITEM NO. 59<D-FRICT >= 20.500 (BOTH WALLS)
ITEM NO. 60<D-KA >= 0.48100 WALL NO. 1
ITEM NO. 61<D-KP >= 2.5410 WALL NO. 1
ITEM NO. 77<D-PERM >= 0.10000E-04 (BOTH WALLS)

LAYER DESCRIPTORS FOR STEP NO. 5

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 1 FOR STEP NO. 5

ITEM NO. 1<NAME >= 16.000 (BOTH WALLS)
ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
ITEM NO. 3<LEVEL >= 2.0000 (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. 9<U-FRICT >= 14.000 (BOTH WALLS)
ITEM NO. 10<U-KA >= 0.61000 WALL NO. 1
ITEM NO. 11<U-KP >= 1.8500 WALL NO. 1
ITEM NO. 12<K0-NC >= 0.75800 (BOTH WALLS)
ITEM NO. 13<NEXP >= 1.0000 (BOTH WALLS)
ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)

ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)
 ITEM NO. 17<EVC >= 15000. (BOTH WALLS)
 ITEM NO. 18<EUR >= 24000. (BOTH WALLS)
 ITEM NO. 27<U-PERM >= 0.10000E-04 (BOTH WALLS)
 ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
 ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
 ITEM NO. 59<D-FRICT >= 14.000 (BOTH WALLS)
 ITEM NO. 60<D-KA >= 0.61000 WALL NO. 1
 ITEM NO. 61<D-KP >= 1.8500 WALL NO. 1
 ITEM NO. 77<D-PERM >= 0.10000E-04 (BOTH WALLS)

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 2 FOR STEP NO. 5

ITEM NO. 1<NAME >= 17.000 (BOTH WALLS)
 ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
 ITEM NO. 3<LEVEL >= -2.0000 (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 >= 2.0000 (BOTH WALLS)
 ITEM NO. 9<U-FRICT >= 24.800 (BOTH WALLS)
 ITEM NO. 10<U-KA >= 0.40900 WALL NO. 1
 ITEM NO. 11<U-KP >= 3.1870 WALL NO. 1
 ITEM NO. 12<K0-NC >= 0.58100 (BOTH WALLS)
 ITEM NO. 13<NEXP >= 1.0000 (BOTH WALLS)
 ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)
 ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)
 ITEM NO. 17<EVC >= 50000. (BOTH WALLS)
 ITEM NO. 18<EUR >= 80000. (BOTH WALLS)
 ITEM NO. 27<U-PERM >= 0.10000E-04 (BOTH WALLS)
 ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
 ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
 ITEM NO. 58<D-COHE >= 2.0000 (BOTH WALLS)
 ITEM NO. 59<D-FRICT >= 24.800 (BOTH WALLS)
 ITEM NO. 60<D-KA >= 0.40900 WALL NO. 1
 ITEM NO. 61<D-KP >= 3.1870 WALL NO. 1
 ITEM NO. 77<D-PERM >= 0.10000E-04 (BOTH WALLS)

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 3 FOR STEP NO. 5

ITEM NO. 1<NAME >= 18.000 (BOTH WALLS)
 ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
 ITEM NO. 3<LEVEL >= -13.000 (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 >= 24.000 (BOTH WALLS)
 ITEM NO. 9<U-FRICT >= 20.500 (BOTH WALLS)
 ITEM NO. 10<U-KA >= 0.48100 WALL NO. 1
 ITEM NO. 11<U-KP >= 2.5410 WALL NO. 1
 ITEM NO. 12<K0-NC >= 0.65000 (BOTH WALLS)
 ITEM NO. 13<NEXP >= 1.0000 (BOTH WALLS)
 ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)
 ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)
 ITEM NO. 17<EVC >= 75000. (BOTH WALLS)
 ITEM NO. 18<EUR >= 0.12000E+06 (BOTH WALLS)
 ITEM NO. 27<U-PERM >= 0.10000E-04 (BOTH WALLS)
 ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
 ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
 ITEM NO. 58<D-COHE >= 24.000 (BOTH WALLS)
 ITEM NO. 59<D-FRICT >= 20.500 (BOTH WALLS)
 ITEM NO. 60<D-KA >= 0.48100 WALL NO. 1
 ITEM NO. 61<D-KP >= 2.5410 WALL NO. 1
 ITEM NO. 77<D-PERM >= 0.10000E-04 (BOTH WALLS)

LAYER DESCRIPTORS FOR STEP NO. 6

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 1 FOR STEP NO. 6

ITEM NO. 1<NAME >= 16.000 (BOTH WALLS)
 ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
 ITEM NO. 3<LEVEL >= 2.0000 (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. 9<U-FRICT >= 14.000 (BOTH WALLS)
 ITEM NO. 10<U-KA >= 0.61000 WALL NO. 1
 ITEM NO. 11<U-KP >= 1.8500 WALL NO. 1
 ITEM NO. 12<K0-NC >= 0.75800 (BOTH WALLS)
 ITEM NO. 13<NEXP >= 1.0000 (BOTH WALLS)
 ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)
 ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)
 ITEM NO. 17<EVC >= 15000. (BOTH WALLS)
 ITEM NO. 18<EUR >= 24000. (BOTH WALLS)
 ITEM NO. 27<U-PERM >= 0.10000E-04 (BOTH WALLS)
 ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
 ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
 ITEM NO. 59<D-FRICT >= 14.000 (BOTH WALLS)

ITEM NO. 60<D-KA >= 0.61000 WALL NO. 1
 ITEM NO. 61<D-KP >= 1.8500 WALL NO. 1
 ITEM NO. 77<D-PERM >= 0.10000E-04 (BOTH WALLS)

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 2 FOR STEP NO. 6

ITEM NO. 1<NAME >= 17.000 (BOTH WALLS)
 ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
 ITEM NO. 3<LEVEL >= -2.0000 (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 >= 2.0000 (BOTH WALLS)
 ITEM NO. 9<U-FRICT >= 24.800 (BOTH WALLS)
 ITEM NO. 10<U-KA >= 0.40900 WALL NO. 1
 ITEM NO. 11<U-KP >= 3.1870 WALL NO. 1
 ITEM NO. 12<K0-NC >= 0.58100 (BOTH WALLS)
 ITEM NO. 13<NEXP >= 1.0000 (BOTH WALLS)
 ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)
 ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)
 ITEM NO. 17<EVC >= 50000. (BOTH WALLS)
 ITEM NO. 18<EUR >= 80000. (BOTH WALLS)
 ITEM NO. 27<U-PERM >= 0.10000E-04 (BOTH WALLS)
 ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
 ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
 ITEM NO. 58<D-COHE >= 2.0000 (BOTH WALLS)
 ITEM NO. 59<D-FRICT >= 24.800 (BOTH WALLS)
 ITEM NO. 60<D-KA >= 0.40900 WALL NO. 1
 ITEM NO. 61<D-KP >= 3.1870 WALL NO. 1
 ITEM NO. 77<D-PERM >= 0.10000E-04 (BOTH WALLS)

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 3 FOR STEP NO. 6

ITEM NO. 1<NAME >= 18.000 (BOTH WALLS)
 ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
 ITEM NO. 3<LEVEL >= -13.000 (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 >= 24.000 (BOTH WALLS)
 ITEM NO. 9<U-FRICT >= 20.500 (BOTH WALLS)
 ITEM NO. 10<U-KA >= 0.48100 WALL NO. 1
 ITEM NO. 11<U-KP >= 2.5410 WALL NO. 1
 ITEM NO. 12<K0-NC >= 0.65000 (BOTH WALLS)
 ITEM NO. 13<NEXP >= 1.0000 (BOTH WALLS)
 ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)
 ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)
 ITEM NO. 17<EVC >= 75000. (BOTH WALLS)
 ITEM NO. 18<EUR >= 0.12000E+06 (BOTH WALLS)
 ITEM NO. 27<U-PERM >= 0.10000E-04 (BOTH WALLS)
 ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
 ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
 ITEM NO. 58<D-COHE >= 24.000 (BOTH WALLS)
 ITEM NO. 59<D-FRICT >= 20.500 (BOTH WALLS)
 ITEM NO. 60<D-KA >= 0.48100 WALL NO. 1
 ITEM NO. 61<D-KP >= 2.5410 WALL NO. 1
 ITEM NO. 77<D-PERM >= 0.10000E-04 (BOTH WALLS)

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|                PARATIE PLUS 2014 NLS ENGINE RELEASE  2016  FULL VERSION  *Build date: Sept23, 2015*                |
|                                                                                                                                            |
|                                                                 NewProject.BaseDesignSection_25.Nominal_60                               |
|                                                                 Exe Time :29 June 2020          17:50:46                               |
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PHASE DESCRIPTORS

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STEP NO.      1

                LEFT WALL      RIGHT WALL
Y              0.000          -0.9990E+30
Z-PC           0.5000          0.000
Z-EXCAVATION   0.5000          0.000
Z-WATER_TABLE -14.80          -0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL  0.000          0.000
ZQ             0.000          0.000
DZW_OF_THE_WATER_TABLE  0.000          0.000
QS_ON_THE_EXCAVATION_SIDE  0.000          0.000
ZQS           -0.9990E+30     -0.9990E+30
ZCUT           0.000          0.000
BALANCE LEVEL FOR PORE PRESSURES -16.00          -16.00
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

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=====end of step 1

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STEP NO.      2

                LEFT WALL      RIGHT WALL
Y              0.000          -0.9990E+30
Z-PC           0.5000          0.000
Z-EXCAVATION   -3.100          0.000
Z-WATER_TABLE -14.80          -0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL  0.000          0.000
ZQ             0.000          0.000
DZW_OF_THE_WATER_TABLE  0.000          0.000
QS_ON_THE_EXCAVATION_SIDE  0.000          0.000
ZQS           -0.9990E+30     -0.9990E+30
ZCUT           0.000          0.000
BALANCE LEVEL FOR PORE PRESSURES -16.00          -16.00
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

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=====end of step 2

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STEP NO.      3

                LEFT WALL      RIGHT WALL
Y              0.000          -0.9990E+30

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Z-PC	0.5000	0.000
Z-EXCAVATION	-3.100	0.000
Z-WATER_TABLE	-14.80	-0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL	0.000	0.000
ZQ	0.000	0.000
DZW_OF_THE_WATER_TABLE	0.000	0.000
QS_ON_THE_EXCAVATION_SIDE	0.000	0.000
ZQS	-0.9990E+30	-0.9990E+30
ZCUT	0.000	0.000
BALANCE LEVEL FOR PORE PRESSURES	-16.00	-16.00
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

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=====end of step 3

STEP NO.	4		
		LEFT WALL	RIGHT WALL
Y		0.000	-0.9990E+30
Z-PC		0.5000	0.000
Z-EXCAVATION		-7.100	0.000
Z-WATER_TABLE		-14.80	-0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL		0.000	0.000
ZQ		0.000	0.000
DZW_OF_THE_WATER_TABLE		0.000	0.000
QS_ON_THE_EXCAVATION_SIDE		0.000	0.000
ZQS		-0.9990E+30	-0.9990E+30
ZCUT		0.000	0.000
BALANCE LEVEL FOR PORE PRESSURES		-16.00	-16.00
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

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=====end of step 4

STEP NO.	5		
		LEFT WALL	RIGHT WALL
Y		0.000	-0.9990E+30
Z-PC		0.5000	0.000
Z-EXCAVATION		-7.100	0.000
Z-WATER_TABLE		-14.80	-0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL		0.000	0.000
ZQ		0.000	0.000
DZW_OF_THE_WATER_TABLE		0.000	0.000
QS_ON_THE_EXCAVATION_SIDE		0.000	0.000
ZQS		-0.9990E+30	-0.9990E+30
ZCUT		0.000	0.000
BALANCE LEVEL FOR PORE PRESSURES		-16.00	-16.00
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 5

STEP NO.	6		
		LEFT WALL	RIGHT WALL
Y		0.000	-0.9990E+30
Z-PC		2.000	0.000
Z-EXCAVATION		-8.500	0.000
Z-WATER_TABLE		-30.00	-0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL		0.000	0.000
ZQ		0.000	0.000
DZW_OF_THE_WATER_TABLE		0.000	0.000
QS_ON_THE_EXCAVATION_SIDE		0.000	0.000
ZQS		-0.9990E+30	-0.9990E+30
ZCUT		0.000	0.000
BALANCE LEVEL FOR PORE PRESSURES		-16.00	-16.00
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 6

LEFT-HAND WALL

LOWER LEVEL	-16.00000
UPPER LEVEL	2.00000

RIGHT-HAND WALL

LOWER LEVEL	-16.00000
UPPER LEVEL	2.00000

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|                PARATIE PLUS 2014 NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Sept23, 2015*                |
|                                                                                                                                            |
|                NewProject.BaseDesignSection_25.Nominal_60                                                                              |
|                Exe Time :29 June 2020 17:50:46                                                                                              |
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I N I T I A L S T R E S S T A B L E S

S E C T I O N

NUMBER OF DEFINED TABLES 1

INPUT DATA FOR INITIAL STRESS SET NO. 1
 PERTAINING SOIL ELEMENTS AT Y-COORD 0.0000

ACTIVATION TIME 1.0000
 END TIME (TIME BEYOND WHICH IT IS REMOVED) 6.0000

TYPE BOUSSINESQ

HORIZONTAL DISTANCE (DY) 31.00000000000000
 FOUNDATION WIDTH (B) 30.50000000000000
 ZETA-F..... 2.00000000000000
 Q-F 54.60000000000000
 BETA 45.00000000000000
 BEHAVIOUR (0=FREE, 1=REFLECTING) 0.00000000000000E+000

ELEMENT GROUPS BACKUP AREA CAN STAY IN CORE AT
 POSITION 5616

NO. OF D.P.W FOR THIS AREA 8785
 MAX NO. OF D.P.W. AVAILABLE 81920
 ** MAX NO OF ITERATIONS SET TO 40

ITER 0 RNORM = 0.000 RMNORM= 0.000
 RINORM=0.9674E+05 RIMNOR= 0.000
 RENORM=0.5364E-28 REMNOR= 0.000 RATIO =0.2355E-16 TOLER =0.1000E-03 CONVERGED !
 RFMAX = 44.15 RMMAX = 0.000
 RTSMAL=0.1000E-03 RMSMAL= 0.000
 RDT =0.9674E+05 RDR = 0.000
 RATIOI=0.2355E-16 RATIOI= 0.000
 MAX UN=0.7105E-14 IEQ= 145 NODE 73 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 1 RNORM = 0.000 RMNORM= 0.000
 RINORM=0.9674E+05 RIMNOR= 0.000
 RENORM=0.1573E-29 REMNOR=0.1178E-52 RATIO =0.4032E-17 TOLER =0.1000E-03 CONVERGED !
 RFMAX = 44.15 RMMAX = 0.000
 RTSMAL=0.1000E-03 RMSMAL= 0.000
 RDT =0.9674E+05 RDR = 0.000
 RATIOI=0.4032E-17 RATIOI= 0.000
 MAX UN=0.3000E-15 IEQ= 153 NODE 77 DOF 1 Y-DISPL.F
 MIN UN=-.1077E-16 IEQ= 17 NODE 9 DOF 1 Y-DISPL.F
 NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 2 RNORM = 0.000 RMNORM= 0.000
 RINORM=0.9674E+05 RIMNOR= 0.000
 RENORM=0.1441E-29 REMNOR=0.4074E-52 RATIO =0.3860E-17 TOLER =0.1000E-03 CONVERGED !
 RFMAX = 44.15 RMMAX = 0.000
 RTSMAL=0.1000E-03 RMSMAL= 0.000
 RDT =0.9674E+05 RDR = 0.000
 RATIOI=0.3860E-17 RATIOI= 0.000
 MAX UN=0.2452E-15 IEQ= 153 NODE 77 DOF 1 Y-DISPL.F
 MIN UN=-.1410E-16 IEQ= 17 NODE 9 DOF 1 Y-DISPL.F
 NO. OF CONTACT CONSTRAINT VIOLATIONS 0

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|          PARATIE PLUS 2014 NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Sept23, 2015*          |
|                                                                                                                                            |
|                                                                 NewProject.BaseDesignSection_25.Nominal_60                               |
|                                                                 Exe Time :29 June 2020      17:50:46                               |
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New Project

SOLUTION REACHED USING 2 ITERATIONS ON 40

PRINT OUT FOR TIME STEP 1 (AT TIME 1.000)

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

Y-DISPL.F	X-ROT. F	(
(02)	(04)	

ALL NODAL POINTS HAVE ZERO DISPLACEMENT COMPONENTS

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+-----+
|                PARATIE PLUS 2014 NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Sept23, 2015*                |
|                                                                                                                    |
|                NewProject.BaseDesignSection_25.Nominal_60                                                         |
|                Exe Time :29 June 2020 17:50:46                                                                    |
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New Project

STRESS RESULTS FOR GROUP NO. 1

0_L :
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 92
CURRENT TIME IS 1.0000

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 LAYER	MAX-H-P	STATE	STIFFNESS	Z-LEVEL	PORE	E FAC-
1	0.000	--	--	--	--	--	REMOVED	--	2.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
2	0.000	--	--	--	--	--	REMOVED	--	1.800	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
3	0.000	--	--	--	--	--	REMOVED	--	1.600	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
4	0.000	--	--	--	--	--	REMOVED	--	1.400	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
5	0.000	--	--	--	--	--	REMOVED	--	1.200	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
6	0.000	--	--	--	--	--	REMOVED	--	1.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
7	0.000	--	--	--	--	--	REMOVED	--	0.8000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
8	0.000	--	--	--	--	--	REMOVED	--	0.6000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
9 D	0.4806	7.0013E-21	2.001	2.403	2.001	2.403	V-C	8000.	0.4000	0.000	
1.000	1.000	2.403	0.000	0.000	FRANA_334_8_L_0						
10 D	1.109	6.4136E-21	6.002	5.545	6.002	5.545	V-C	8000.	0.2000	0.000	
1.000	1.000	5.545	0.000	0.000	FRANA_334_8_L_0						
11 D	1.737	5.8257E-21	10.00	8.687	10.00	8.687	V-C	8000.	-1.4901E-07	0.000	
1.000	1.000	8.687	0.000	0.000	FRANA_334_8_L_0						
12 D	2.366	5.2377E-21	14.00	11.83	14.00	11.83	V-C	8000.	-0.2000	0.000	
1.000	1.000	11.83	0.000	0.000	FRANA_334_8_L_0						
13 D	2.994	4.6491E-21	18.00	14.97	18.00	14.97	V-C	8000.	-0.4000	0.000	
1.000	1.000	14.97	0.000	0.000	FRANA_334_8_L_0						
14 D	3.622	4.0597E-21	22.01	18.11	22.01	18.11	V-C	8000.	-0.6000	0.000	
1.000	1.000	18.11	0.000	0.000	FRANA_334_8_L_0						
15 D	4.250	3.4691E-21	26.01	21.25	26.01	21.25	V-C	8000.	-0.8000	0.000	
1.000	1.000	21.25	0.000	0.000	FRANA_334_8_L_0						
16 D	4.878	2.8770E-21	30.01	24.39	30.01	24.39	V-C	8000.	-1.000	0.000	
1.000	1.000	24.39	0.000	0.000	FRANA_334_8_L_0						
17 D	5.506	2.2827E-21	34.01	27.53	34.01	27.53	V-C	8000.	-1.200	0.000	
1.000	1.000	27.53	0.000	0.000	FRANA_334_8_L_0						
18 D	6.134	1.6860E-21	38.01	30.67	38.01	30.67	V-C	8000.	-1.400	0.000	
1.000	1.000	30.67	0.000	0.000	FRANA_334_8_L_0						
19 D	6.761	1.0861E-21	42.02	33.81	42.02	33.81	V-C	8000.	-1.600	0.000	
1.000	1.000	33.81	0.000	0.000	FRANA_334_8_L_0						
20 D	7.389	4.8267E-22	46.02	36.94	46.02	36.94	V-C	8000.	-1.800	0.000	
1.000	1.000	36.94	0.000	0.000	FRANA_334_8_L_0						
21 D	4.685	-1.2498E-22	50.02	31.23	50.02	31.23	V-C	3.2576E+04	-2.000	0.000	
1.000	1.000	31.23	0.000	0.000	BNA3(2)_335_337_L_0						
22 D	4.867	-4.3055E-22	52.02	32.45	52.02	32.45	V-C	3.2576E+04	-2.100	0.000	
1.000	1.000	32.45	0.000	0.000	BNA3(2)_335_337_L_0						
23 D	6.975	-1.0455E-21	56.03	34.87	56.03	34.87	V-C	3.2576E+04	-2.300	0.000	
1.000	1.000	34.87	0.000	0.000	BNA3(2)_335_337_L_0						
24 D	7.460	-1.6661E-21	60.03	37.30	60.03	37.30	V-C	3.2576E+04	-2.500	0.000	
1.000	1.000	37.30	0.000	0.000	BNA3(2)_335_337_L_0						
25 D	7.946	-2.2928E-21	64.03	39.73	64.03	39.73	V-C	3.2576E+04	-2.700	0.000	
1.000	1.000	39.73	0.000	0.000	BNA3(2)_335_337_L_0						
26 D	8.431	-2.9261E-21	68.04	42.15	68.04	42.15	V-C	3.2576E+04	-2.900	0.000	
1.000	1.000	42.15	0.000	0.000	BNA3(2)_335_337_L_0						
27 D	8.916	-3.5664E-21	72.04	44.58	72.04	44.58	V-C	3.2576E+04	-3.100	0.000	
1.000	1.000	44.58	0.000	0.000	BNA3(2)_335_337_L_0						
28 D	9.401	-4.2138E-21	76.05	47.01	76.05	47.01	V-C	3.2576E+04	-3.300	0.000	
1.000	1.000	47.01	0.000	0.000	BNA3(2)_335_337_L_0						
29 D	9.886	-4.8686E-21	80.05	49.43	80.05	49.43	V-C	3.2576E+04	-3.500	0.000	
1.000	1.000	49.43	0.000	0.000	BNA3(2)_335_337_L_0						
30 D	10.37	-5.5306E-21	84.06	51.85	84.06	51.85	V-C	3.2576E+04	-3.700	0.000	
1.000	1.000	51.85	0.000	0.000	BNA3(2)_335_337_L_0						
31 D	10.85	-6.1998E-21	88.07	54.27	88.07	54.27	V-C	3.2576E+04	-3.900	0.000	
1.000	1.000	54.27	0.000	0.000	BNA3(2)_335_337_L_0						
32 D	11.34	-6.8755E-21	92.07	56.70	92.07	56.70	V-C	3.2576E+04	-4.100	0.000	
1.000	1.000	56.70	0.000	0.000	BNA3(2)_335_337_L_0						
33 D	11.82	-7.5572E-21	96.08	59.12	96.08	59.12	V-C	3.2576E+04	-4.300	0.000	
1.000	1.000	59.12	0.000	0.000	BNA3(2)_335_337_L_0						

34 D	12.31	-8.2440E-21	100.1	61.54	100.1	61.54	V-C	3.2576E+04	-4.500	0.000
1.000	1.000	61.54	0.000	0.000	BNA3(2)_335_337_L_0					
35 D	12.79	-8.9344E-21	104.1	63.95	104.1	63.95	V-C	3.2576E+04	-4.700	0.000
1.000	1.000	63.95	0.000	0.000	BNA3(2)_335_337_L_0					
36 D	13.27	-9.6271E-21	108.1	66.37	108.1	66.37	V-C	3.2576E+04	-4.900	0.000
1.000	1.000	66.37	0.000	0.000	BNA3(2)_335_337_L_0					
37 D	13.76	-1.0320E-20	112.1	68.79	112.1	68.79	V-C	3.2576E+04	-5.100	0.000
1.000	1.000	68.79	0.000	0.000	BNA3(2)_335_337_L_0					
38 D	14.24	-1.1011E-20	116.1	71.21	116.1	71.21	V-C	3.2576E+04	-5.300	0.000
1.000	1.000	71.21	0.000	0.000	BNA3(2)_335_337_L_0					
39 D	14.72	-1.1698E-20	120.1	73.62	120.1	73.62	V-C	3.2576E+04	-5.500	0.000
1.000	1.000	73.62	0.000	0.000	BNA3(2)_335_337_L_0					
40 D	15.21	-1.2376E-20	124.1	76.03	124.1	76.03	V-C	3.2576E+04	-5.700	0.000
1.000	1.000	76.03	0.000	0.000	BNA3(2)_335_337_L_0					
41 D	15.69	-1.3044E-20	128.2	78.45	128.2	78.45	V-C	3.2576E+04	-5.900	0.000
1.000	1.000	78.45	0.000	0.000	BNA3(2)_335_337_L_0					
42 D	16.17	-1.3698E-20	132.2	80.86	132.2	80.86	V-C	3.2576E+04	-6.100	0.000
1.000	1.000	80.86	0.000	0.000	BNA3(2)_335_337_L_0					
43 D	16.65	-1.4343E-20	136.2	83.27	136.2	83.27	V-C	3.2576E+04	-6.300	0.000
1.000	1.000	83.27	0.000	0.000	BNA3(2)_335_337_L_0					
44 D	17.14	-1.4985E-20	140.2	85.68	140.2	85.68	V-C	3.2576E+04	-6.500	0.000
1.000	1.000	85.68	0.000	0.000	BNA3(2)_335_337_L_0					
45 D	17.62	-1.5630E-20	144.2	88.09	144.2	88.09	V-C	3.2576E+04	-6.700	0.000
1.000	1.000	88.09	0.000	0.000	BNA3(2)_335_337_L_0					
46 D	18.10	-1.6282E-20	148.2	90.50	148.2	90.50	V-C	3.2576E+04	-6.900	0.000
1.000	1.000	90.50	0.000	0.000	BNA3(2)_335_337_L_0					
47 D	18.58	-1.6946E-20	152.2	92.90	152.2	92.90	V-C	3.2576E+04	-7.100	0.000
1.000	1.000	92.90	0.000	0.000	BNA3(2)_335_337_L_0					
48 D	19.06	-1.7625E-20	156.2	95.31	156.2	95.31	V-C	3.2576E+04	-7.300	0.000
1.000	1.000	95.31	0.000	0.000	BNA3(2)_335_337_L_0					
49 D	19.54	-1.8322E-20	160.3	97.71	160.3	97.71	V-C	3.2576E+04	-7.500	0.000
1.000	1.000	97.71	0.000	0.000	BNA3(2)_335_337_L_0					
50 D	20.02	-1.9039E-20	164.3	100.1	164.3	100.1	V-C	3.2576E+04	-7.700	0.000
1.000	1.000	100.1	0.000	0.000	BNA3(2)_335_337_L_0					
51 D	20.50	-1.9777E-20	168.3	102.5	168.3	102.5	V-C	3.2576E+04	-7.900	0.000
1.000	1.000	102.5	0.000	0.000	BNA3(2)_335_337_L_0					
52 D	20.98	-2.0538E-20	172.3	104.9	172.3	104.9	V-C	3.2576E+04	-8.100	0.000
1.000	1.000	104.9	0.000	0.000	BNA3(2)_335_337_L_0					
53 D	21.46	-2.1321E-20	176.3	107.3	176.3	107.3	V-C	3.2576E+04	-8.300	0.000
1.000	1.000	107.3	0.000	0.000	BNA3(2)_335_337_L_0					
54 D	21.94	-2.2125E-20	180.3	109.7	180.3	109.7	V-C	3.2576E+04	-8.500	0.000
1.000	1.000	109.7	0.000	0.000	BNA3(2)_335_337_L_0					
55 D	22.42	-2.2949E-20	184.4	112.1	184.4	112.1	V-C	3.2576E+04	-8.700	0.000
1.000	1.000	112.1	0.000	0.000	BNA3(2)_335_337_L_0					
56 D	22.90	-2.3789E-20	188.4	114.5	188.4	114.5	V-C	3.2576E+04	-8.900	0.000
1.000	1.000	114.5	0.000	0.000	BNA3(2)_335_337_L_0					
57 D	23.38	-2.4643E-20	192.4	116.9	192.4	116.9	V-C	3.2576E+04	-9.100	0.000
1.000	1.000	116.9	0.000	0.000	BNA3(2)_335_337_L_0					
58 D	23.86	-2.5506E-20	196.4	119.3	196.4	119.3	V-C	3.2576E+04	-9.300	0.000
1.000	1.000	119.3	0.000	0.000	BNA3(2)_335_337_L_0					
59 D	24.34	-2.6372E-20	200.4	121.7	200.4	121.7	V-C	3.2576E+04	-9.500	0.000
1.000	1.000	121.7	0.000	0.000	BNA3(2)_335_337_L_0					
60 D	24.82	-2.7235E-20	204.5	124.1	204.5	124.1	V-C	3.2576E+04	-9.700	0.000
1.000	1.000	124.1	0.000	0.000	BNA3(2)_335_337_L_0					
61 D	25.29	-2.8088E-20	208.5	126.5	208.5	126.5	V-C	3.2576E+04	-9.900	0.000
1.000	1.000	126.5	0.000	0.000	BNA3(2)_335_337_L_0					
62 D	25.77	-2.8923E-20	212.5	128.9	212.5	128.9	V-C	3.2576E+04	-10.10	0.000
1.000	1.000	128.9	0.000	0.000	BNA3(2)_335_337_L_0					
63 D	26.25	-2.9729E-20	216.5	131.2	216.5	131.2	V-C	3.2576E+04	-10.30	0.000
1.000	1.000	131.2	0.000	0.000	BNA3(2)_335_337_L_0					
64 D	26.73	-3.0498E-20	220.5	133.6	220.5	133.6	V-C	3.2576E+04	-10.50	0.000
1.000	1.000	133.6	0.000	0.000	BNA3(2)_335_337_L_0					
65 D	27.20	-3.1218E-20	224.6	136.0	224.6	136.0	V-C	3.2576E+04	-10.70	0.000
1.000	1.000	136.0	0.000	0.000	BNA3(2)_335_337_L_0					
66 D	27.68	-3.1875E-20	228.6	138.4	228.6	138.4	V-C	3.2576E+04	-10.90	0.000
1.000	1.000	138.4	0.000	0.000	BNA3(2)_335_337_L_0					
67 D	28.16	-3.2457E-20	232.6	140.8	232.6	140.8	V-C	3.2576E+04	-11.10	0.000
1.000	1.000	140.8	0.000	0.000	BNA3(2)_335_337_L_0					
68 D	28.63	-3.2948E-20	236.6	143.2	236.6	143.2	V-C	3.2576E+04	-11.30	0.000
1.000	1.000	143.2	0.000	0.000	BNA3(2)_335_337_L_0					
69 D	29.11	-3.3334E-20	240.7	145.5	240.7	145.5	V-C	3.2576E+04	-11.50	0.000
1.000	1.000	145.5	0.000	0.000	BNA3(2)_335_337_L_0					
70 D	29.58	-3.3597E-20	244.7	147.9	244.7	147.9	V-C	3.2576E+04	-11.70	0.000
1.000	1.000	147.9	0.000	0.000	BNA3(2)_335_337_L_0					
71 D	30.06	-3.3719E-20	248.7	150.3	248.7	150.3	V-C	3.2576E+04	-11.90	0.000
1.000	1.000	150.3	0.000	0.000	BNA3(2)_335_337_L_0					
72 D	30.54	-3.3682E-20	252.7	152.7	252.7	152.7	V-C	3.2576E+04	-12.10	0.000
1.000	1.000	152.7	0.000	0.000	BNA3(2)_335_337_L_0					
73 D	31.01	-3.3466E-20	256.8	155.1	256.8	155.1	V-C	3.2576E+04	-12.30	0.000
1.000	1.000	155.1	0.000	0.000	BNA3(2)_335_337_L_0					
74 D	31.49	-3.3056E-20	260.8	157.4	260.8	157.4	V-C	3.2576E+04	-12.50	0.000
1.000	1.000	157.4	0.000	0.000	BNA3(2)_335_337_L_0					
75 D	31.96	-3.2467E-20	264.8	159.8	264.8	159.8	V-C	3.2576E+04	-12.70	0.000
1.000	1.000	159.8	0.000	0.000	BNA3(2)_335_337_L_0					
76 D	32.43	-3.1720E-20	268.8	162.2	268.8	162.2	V-C	3.2576E+04	-12.90	0.000
1.000	1.000	162.2	0.000	0.000	BNA3(2)_335_337_L_0					
77 D	36.66	-3.0834E-20	272.9	183.3	272.9	183.3	V-C	4.5047E+04	-13.10	0.000
1.000	1.000	183.3	0.000	0.000	BNA3(3)_336_338_L_0					
78 D	37.19	-2.9830E-20	276.9	186.0	276.9	186.0	V-C	4.5047E+04	-13.30	0.000
1.000	1.000	186.0	0.000	0.000	BNA3(3)_336_338_L_0					
79 D	37.72	-2.8722E-20	280.9	188.6	280.9	188.6	V-C	4.5047E+04	-13.50	0.000
1.000	1.000	188.6	0.000	0.000	BNA3(3)_336_338_L_0					

80 D	38.25	-2.7529E-20	285.0	191.2	285.0	191.2	V-C	4.5047E+04	-13.70	0.000
1.000	1.000	191.2	0.000	0.000	BNA3(3)_336_338_L_0					
81 D	38.78	-2.6263E-20	289.0	193.9	289.0	193.9	V-C	4.5047E+04	-13.90	0.000
1.000	1.000	193.9	0.000	0.000	BNA3(3)_336_338_L_0					
82 D	39.31	-2.4937E-20	293.0	196.5	293.0	196.5	V-C	4.5047E+04	-14.10	0.000
1.000	1.000	196.5	0.000	0.000	BNA3(3)_336_338_L_0					
83 D	39.83	-2.3563E-20	297.1	199.2	297.1	199.2	V-C	4.5047E+04	-14.30	0.000
1.000	1.000	199.2	0.000	0.000	BNA3(3)_336_338_L_0					
84 D	40.36	-2.2152E-20	301.1	201.8	301.1	201.8	V-C	4.5047E+04	-14.50	0.000
1.000	1.000	201.8	0.000	0.000	BNA3(3)_336_338_L_0					
85 D	40.89	-2.0711E-20	305.1	204.4	305.1	204.4	V-C	4.5047E+04	-14.70	0.000
1.000	1.000	204.4	0.000	0.000	BNA3(3)_336_338_L_0					
86 D	41.49	-1.9249E-20	308.2	206.4	308.2	206.4	V-C	4.5047E+04	-14.90	0.9999
1.000	1.000	207.4	0.000	0.000	BNA3(3)_336_338_L_0					
87 D	42.15	-1.7771E-20	310.2	207.8	310.2	207.8	V-C	4.5047E+04	-15.10	3.000
1.000	1.000	210.8	0.000	0.000	BNA3(3)_336_338_L_0					
88 D	42.82	-1.6284E-20	312.2	209.1	312.2	209.1	V-C	4.5047E+04	-15.30	5.000
1.000	1.000	214.1	0.000	0.000	BNA3(3)_336_338_L_0					
89 D	43.49	-1.4790E-20	314.2	210.4	314.2	210.4	V-C	4.5047E+04	-15.50	7.000
1.000	1.000	217.4	0.000	0.000	BNA3(3)_336_338_L_0					
90 D	44.15	-1.3293E-20	316.3	211.8	316.3	211.8	V-C	4.5047E+04	-15.70	9.000
1.000	1.000	220.8	0.000	0.000	BNA3(3)_336_338_L_0					
91 D	33.61	-1.1795E-20	318.3	213.1	318.3	213.1	V-C	4.5047E+04	-15.90	11.00
1.000	1.000	224.1	0.000	0.000	BNA3(3)_336_338_L_0					
92 D	11.29	-1.1046E-20	319.3	213.8	319.3	213.8	V-C	4.5047E+04	-16.00	12.00
1.000	1.000	225.8	0.000	0.000	BNA3(3)_336_338_L_0					

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|                PARATIE PLUS 2014 NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Sept23, 2015*                |
|                                                                                                                    |
|                NewProject.BaseDesignSection_25.Nominal_60                                                         |
|                Exe Time :29 June 2020 17:50:46                                                                    |
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New Project

STRESS RESULTS FOR GROUP NO. 2

O_R :
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 92
CURRENT TIME IS 1.0000

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 LAYER	MAX-H-P	STATE	STIFFNESS	Z-LEVEL	PORE	E FAC-
1	0.000	--	--	--	--	--	REMOVED	--	2.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
2	0.000	--	--	--	--	--	REMOVED	--	1.800	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
3	0.000	--	--	--	--	--	REMOVED	--	1.600	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
4	0.000	--	--	--	--	--	REMOVED	--	1.400	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
5	0.000	--	--	--	--	--	REMOVED	--	1.200	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
6	0.000	--	--	--	--	--	REMOVED	--	1.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
7	0.000	--	--	--	--	--	REMOVED	--	0.8000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
8	0.000	--	--	--	--	--	REMOVED	--	0.6000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
9 D	0.4806	-7.0013E-21	2.000	2.403	2.000	2.403	V-C	9766.	0.4000	0.000	
1.000	1.000	2.403	0.000	0.000	FRANA_334_8_L_0						
10 D	1.109	-6.4136E-21	6.000	5.545	6.000	5.545	V-C	9766.	0.2000	0.000	
1.000	1.000	5.545	0.000	0.000	FRANA_334_8_L_0						
11 D	1.737	-5.8257E-21	10.00	8.687	10.00	8.687	V-C	9766.	-1.4901E-07	0.000	
1.000	1.000	8.687	0.000	0.000	FRANA_334_8_L_0						
12 D	2.366	-5.2377E-21	14.00	11.83	14.00	11.83	V-C	9766.	-0.2000	0.000	
1.000	1.000	11.83	0.000	0.000	FRANA_334_8_L_0						
13 D	2.994	-4.6491E-21	18.00	14.97	18.00	14.97	V-C	9766.	-0.4000	0.000	
1.000	1.000	14.97	0.000	0.000	FRANA_334_8_L_0						
14 D	3.622	-4.0597E-21	22.00	18.11	22.00	18.11	V-C	9766.	-0.6000	0.000	
1.000	1.000	18.11	0.000	0.000	FRANA_334_8_L_0						
15 D	4.250	-3.4691E-21	26.00	21.25	26.00	21.25	V-C	9766.	-0.8000	0.000	
1.000	1.000	21.25	0.000	0.000	FRANA_334_8_L_0						
16 D	4.878	-2.8770E-21	30.00	24.39	30.00	24.39	V-C	9766.	-1.000	0.000	
1.000	1.000	24.39	0.000	0.000	FRANA_334_8_L_0						
17 D	5.506	-2.2827E-21	34.00	27.53	34.00	27.53	V-C	9766.	-1.200	0.000	
1.000	1.000	27.53	0.000	0.000	FRANA_334_8_L_0						
18 D	6.134	-1.6860E-21	38.00	30.67	38.00	30.67	V-C	9766.	-1.400	0.000	
1.000	1.000	30.67	0.000	0.000	FRANA_334_8_L_0						
19 D	6.761	-1.0861E-21	42.00	33.81	42.00	33.81	V-C	9766.	-1.600	0.000	
1.000	1.000	33.81	0.000	0.000	FRANA_334_8_L_0						
20 D	7.389	-4.8267E-22	46.00	36.94	46.00	36.94	V-C	9766.	-1.800	0.000	
1.000	1.000	36.94	0.000	0.000	FRANA_334_8_L_0						
21 D	4.685	1.2498E-22	50.00	31.23	50.00	31.23	V-C	2.6647E+04	-2.000	0.000	
1.000	1.000	31.23	0.000	0.000	BNA3(2)_335_337_L_0						
22 D	4.867	4.3055E-22	52.00	32.45	52.00	32.45	V-C	2.6647E+04	-2.100	0.000	
1.000	1.000	32.45	0.000	0.000	BNA3(2)_335_337_L_0						
23 D	6.975	1.0455E-21	56.00	34.87	56.00	34.87	V-C	2.6647E+04	-2.300	0.000	
1.000	1.000	34.87	0.000	0.000	BNA3(2)_335_337_L_0						
24 D	7.460	1.6661E-21	60.00	37.30	60.00	37.30	V-C	2.6647E+04	-2.500	0.000	
1.000	1.000	37.30	0.000	0.000	BNA3(2)_335_337_L_0						
25 D	7.946	2.2928E-21	64.00	39.73	64.00	39.73	V-C	2.6647E+04	-2.700	0.000	
1.000	1.000	39.73	0.000	0.000	BNA3(2)_335_337_L_0						
26 D	8.431	2.9261E-21	68.00	42.15	68.00	42.15	V-C	2.6647E+04	-2.900	0.000	
1.000	1.000	42.15	0.000	0.000	BNA3(2)_335_337_L_0						
27 D	8.916	3.5664E-21	72.00	44.58	72.00	44.58	V-C	2.6647E+04	-3.100	0.000	
1.000	1.000	44.58	0.000	0.000	BNA3(2)_335_337_L_0						
28 D	9.401	4.2138E-21	76.00	47.01	76.00	47.01	V-C	2.6647E+04	-3.300	0.000	
1.000	1.000	47.01	0.000	0.000	BNA3(2)_335_337_L_0						
29 D	9.886	4.8686E-21	80.00	49.43	80.00	49.43	V-C	2.6647E+04	-3.500	0.000	
1.000	1.000	49.43	0.000	0.000	BNA3(2)_335_337_L_0						
30 D	10.37	5.5306E-21	84.00	51.85	84.00	51.85	V-C	2.6647E+04	-3.700	0.000	
1.000	1.000	51.85	0.000	0.000	BNA3(2)_335_337_L_0						
31 D	10.85	6.1998E-21	88.00	54.27	88.00	54.27	V-C	2.6647E+04	-3.900	0.000	
1.000	1.000	54.27	0.000	0.000	BNA3(2)_335_337_L_0						
32 D	11.34	6.8755E-21	92.00	56.70	92.00	56.70	V-C	2.6647E+04	-4.100	0.000	
1.000	1.000	56.70	0.000	0.000	BNA3(2)_335_337_L_0						
33 D	11.82	7.5572E-21	96.00	59.12	96.00	59.12	V-C	2.6647E+04	-4.300	0.000	
1.000	1.000	59.12	0.000	0.000	BNA3(2)_335_337_L_0						

34 D	12.31	8.2440E-21	100.0	61.54	100.0	61.54	V-C	2.6647E+04	-4.500	0.000
1.000	1.000	61.54	0.000	0.000	BNA3(2)_335_337_L_0					
35 D	12.79	8.9344E-21	104.0	63.95	104.0	63.95	V-C	2.6647E+04	-4.700	0.000
1.000	1.000	63.95	0.000	0.000	BNA3(2)_335_337_L_0					
36 D	13.27	9.6271E-21	108.0	66.37	108.0	66.37	V-C	2.6647E+04	-4.900	0.000
1.000	1.000	66.37	0.000	0.000	BNA3(2)_335_337_L_0					
37 D	13.76	1.0320E-20	112.0	68.79	112.0	68.79	V-C	2.6647E+04	-5.100	0.000
1.000	1.000	68.79	0.000	0.000	BNA3(2)_335_337_L_0					
38 D	14.24	1.1011E-20	116.0	71.21	116.0	71.21	V-C	2.6647E+04	-5.300	0.000
1.000	1.000	71.21	0.000	0.000	BNA3(2)_335_337_L_0					
39 D	14.72	1.1698E-20	120.0	73.62	120.0	73.62	V-C	2.6647E+04	-5.500	0.000
1.000	1.000	73.62	0.000	0.000	BNA3(2)_335_337_L_0					
40 D	15.21	1.2376E-20	124.0	76.03	124.0	76.03	V-C	2.6647E+04	-5.700	0.000
1.000	1.000	76.03	0.000	0.000	BNA3(2)_335_337_L_0					
41 D	15.69	1.3044E-20	128.0	78.45	128.0	78.45	V-C	2.6647E+04	-5.900	0.000
1.000	1.000	78.45	0.000	0.000	BNA3(2)_335_337_L_0					
42 D	16.17	1.3698E-20	132.0	80.86	132.0	80.86	V-C	2.6647E+04	-6.100	0.000
1.000	1.000	80.86	0.000	0.000	BNA3(2)_335_337_L_0					
43 D	16.65	1.4343E-20	136.0	83.27	136.0	83.27	V-C	2.6647E+04	-6.300	0.000
1.000	1.000	83.27	0.000	0.000	BNA3(2)_335_337_L_0					
44 D	17.14	1.4985E-20	140.0	85.68	140.0	85.68	V-C	2.6647E+04	-6.500	0.000
1.000	1.000	85.68	0.000	0.000	BNA3(2)_335_337_L_0					
45 D	17.62	1.5630E-20	144.0	88.09	144.0	88.09	V-C	2.6647E+04	-6.700	0.000
1.000	1.000	88.09	0.000	0.000	BNA3(2)_335_337_L_0					
46 D	18.10	1.6282E-20	148.0	90.50	148.0	90.50	V-C	2.6647E+04	-6.900	0.000
1.000	1.000	90.50	0.000	0.000	BNA3(2)_335_337_L_0					
47 D	18.58	1.6946E-20	152.0	92.90	152.0	92.90	V-C	2.6647E+04	-7.100	0.000
1.000	1.000	92.90	0.000	0.000	BNA3(2)_335_337_L_0					
48 D	19.06	1.7625E-20	156.0	95.31	156.0	95.31	V-C	2.6647E+04	-7.300	0.000
1.000	1.000	95.31	0.000	0.000	BNA3(2)_335_337_L_0					
49 D	19.54	1.8322E-20	160.0	97.71	160.0	97.71	V-C	2.6647E+04	-7.500	0.000
1.000	1.000	97.71	0.000	0.000	BNA3(2)_335_337_L_0					
50 D	20.02	1.9039E-20	164.0	100.1	164.0	100.1	V-C	2.6647E+04	-7.700	0.000
1.000	1.000	100.1	0.000	0.000	BNA3(2)_335_337_L_0					
51 D	20.50	1.9777E-20	168.0	102.5	168.0	102.5	V-C	2.6647E+04	-7.900	0.000
1.000	1.000	102.5	0.000	0.000	BNA3(2)_335_337_L_0					
52 D	20.98	2.0538E-20	172.0	104.9	172.0	104.9	V-C	2.6647E+04	-8.100	0.000
1.000	1.000	104.9	0.000	0.000	BNA3(2)_335_337_L_0					
53 D	21.46	2.1321E-20	176.0	107.3	176.0	107.3	V-C	2.6647E+04	-8.300	0.000
1.000	1.000	107.3	0.000	0.000	BNA3(2)_335_337_L_0					
54 D	21.94	2.2125E-20	180.0	109.7	180.0	109.7	V-C	2.6647E+04	-8.500	0.000
1.000	1.000	109.7	0.000	0.000	BNA3(2)_335_337_L_0					
55 D	22.42	2.2949E-20	184.0	112.1	184.0	112.1	V-C	2.6647E+04	-8.700	0.000
1.000	1.000	112.1	0.000	0.000	BNA3(2)_335_337_L_0					
56 D	22.90	2.3789E-20	188.0	114.5	188.0	114.5	V-C	2.6647E+04	-8.900	0.000
1.000	1.000	114.5	0.000	0.000	BNA3(2)_335_337_L_0					
57 D	23.38	2.4643E-20	192.0	116.9	192.0	116.9	V-C	2.6647E+04	-9.100	0.000
1.000	1.000	116.9	0.000	0.000	BNA3(2)_335_337_L_0					
58 D	23.86	2.5506E-20	196.0	119.3	196.0	119.3	V-C	2.6647E+04	-9.300	0.000
1.000	1.000	119.3	0.000	0.000	BNA3(2)_335_337_L_0					
59 D	24.34	2.6372E-20	200.0	121.7	200.0	121.7	V-C	2.6647E+04	-9.500	0.000
1.000	1.000	121.7	0.000	0.000	BNA3(2)_335_337_L_0					
60 D	24.82	2.7235E-20	204.0	124.1	204.0	124.1	V-C	2.6647E+04	-9.700	0.000
1.000	1.000	124.1	0.000	0.000	BNA3(2)_335_337_L_0					
61 D	25.29	2.8088E-20	208.0	126.5	208.0	126.5	V-C	2.6647E+04	-9.900	0.000
1.000	1.000	126.5	0.000	0.000	BNA3(2)_335_337_L_0					
62 D	25.77	2.8923E-20	212.0	128.9	212.0	128.9	V-C	2.6647E+04	-10.10	0.000
1.000	1.000	128.9	0.000	0.000	BNA3(2)_335_337_L_0					
63 D	26.25	2.9729E-20	216.0	131.2	216.0	131.2	V-C	2.6647E+04	-10.30	0.000
1.000	1.000	131.2	0.000	0.000	BNA3(2)_335_337_L_0					
64 D	26.73	3.0498E-20	220.0	133.6	220.0	133.6	V-C	2.6647E+04	-10.50	0.000
1.000	1.000	133.6	0.000	0.000	BNA3(2)_335_337_L_0					
65 D	27.20	3.1218E-20	224.0	136.0	224.0	136.0	V-C	2.6647E+04	-10.70	0.000
1.000	1.000	136.0	0.000	0.000	BNA3(2)_335_337_L_0					
66 D	27.68	3.1875E-20	228.0	138.4	228.0	138.4	V-C	2.6647E+04	-10.90	0.000
1.000	1.000	138.4	0.000	0.000	BNA3(2)_335_337_L_0					
67 D	28.16	3.2457E-20	232.0	140.8	232.0	140.8	V-C	2.6647E+04	-11.10	0.000
1.000	1.000	140.8	0.000	0.000	BNA3(2)_335_337_L_0					
68 D	28.63	3.2948E-20	236.0	143.2	236.0	143.2	V-C	2.6647E+04	-11.30	0.000
1.000	1.000	143.2	0.000	0.000	BNA3(2)_335_337_L_0					
69 D	29.11	3.3334E-20	240.0	145.5	240.0	145.5	V-C	2.6647E+04	-11.50	0.000
1.000	1.000	145.5	0.000	0.000	BNA3(2)_335_337_L_0					
70 D	29.58	3.3597E-20	244.0	147.9	244.0	147.9	V-C	2.6647E+04	-11.70	0.000
1.000	1.000	147.9	0.000	0.000	BNA3(2)_335_337_L_0					
71 D	30.06	3.3719E-20	248.0	150.3	248.0	150.3	V-C	2.6647E+04	-11.90	0.000
1.000	1.000	150.3	0.000	0.000	BNA3(2)_335_337_L_0					
72 D	30.54	3.3682E-20	252.0	152.7	252.0	152.7	V-C	2.6647E+04	-12.10	0.000
1.000	1.000	152.7	0.000	0.000	BNA3(2)_335_337_L_0					
73 D	31.01	3.3466E-20	256.0	155.1	256.0	155.1	V-C	2.6647E+04	-12.30	0.000
1.000	1.000	155.1	0.000	0.000	BNA3(2)_335_337_L_0					
74 D	31.49	3.3056E-20	260.0	157.4	260.0	157.4	V-C	2.6647E+04	-12.50	0.000
1.000	1.000	157.4	0.000	0.000	BNA3(2)_335_337_L_0					
75 D	31.96	3.2467E-20	264.0	159.8	264.0	159.8	V-C	2.6647E+04	-12.70	0.000
1.000	1.000	159.8	0.000	0.000	BNA3(2)_335_337_L_0					
76 D	32.43	3.1720E-20	268.0	162.2	268.0	162.2	V-C	2.6647E+04	-12.90	0.000
1.000	1.000	162.2	0.000	0.000	BNA3(2)_335_337_L_0					
77 D	36.66	3.0834E-20	272.0	183.3	272.0	183.3	V-C	4.3358E+04	-13.10	0.000
1.000	1.000	183.3	0.000	0.000	BNA3(3)_336_338_L_0					
78 D	37.19	2.9830E-20	276.0	186.0	276.0	186.0	V-C	4.3358E+04	-13.30	0.000
1.000	1.000	186.0	0.000	0.000	BNA3(3)_336_338_L_0					
79 D	37.72	2.8722E-20	280.0	188.6	280.0	188.6	V-C	4.3358E+04	-13.50	0.000
1.000	1.000	188.6	0.000	0.000	BNA3(3)_336_338_L_0					

80 D	38.25	2.7529E-20	284.0	191.2	284.0	191.2	V-C	4.3358E+04	-13.70	0.000
1.000	1.000	191.2	0.000	0.000	BNA3(3)_336_338_L_0					
81 D	38.78	2.6263E-20	288.0	193.9	288.0	193.9	V-C	4.3358E+04	-13.90	0.000
1.000	1.000	193.9	0.000	0.000	BNA3(3)_336_338_L_0					
82 D	39.31	2.4937E-20	292.0	196.5	292.0	196.5	V-C	4.3358E+04	-14.10	0.000
1.000	1.000	196.5	0.000	0.000	BNA3(3)_336_338_L_0					
83 D	39.83	2.3563E-20	296.0	199.2	296.0	199.2	V-C	4.3358E+04	-14.30	0.000
1.000	1.000	199.2	0.000	0.000	BNA3(3)_336_338_L_0					
84 D	40.36	2.2152E-20	300.0	201.8	300.0	201.8	V-C	4.3358E+04	-14.50	0.000
1.000	1.000	201.8	0.000	0.000	BNA3(3)_336_338_L_0					
85 D	40.89	2.0711E-20	304.0	204.4	304.0	204.4	V-C	4.3358E+04	-14.70	0.000
1.000	1.000	204.4	0.000	0.000	BNA3(3)_336_338_L_0					
86 D	41.49	1.9249E-20	307.0	206.4	307.0	206.4	V-C	4.3358E+04	-14.90	0.9999
1.000	1.000	207.4	0.000	0.000	BNA3(3)_336_338_L_0					
87 D	42.15	1.7771E-20	309.0	207.8	309.0	207.8	V-C	4.3358E+04	-15.10	3.000
1.000	1.000	210.8	0.000	0.000	BNA3(3)_336_338_L_0					
88 D	42.82	1.6284E-20	311.0	209.1	311.0	209.1	V-C	4.3358E+04	-15.30	5.000
1.000	1.000	214.1	0.000	0.000	BNA3(3)_336_338_L_0					
89 D	43.49	1.4790E-20	313.0	210.4	313.0	210.4	V-C	4.3358E+04	-15.50	7.000
1.000	1.000	217.4	0.000	0.000	BNA3(3)_336_338_L_0					
90 D	44.15	1.3293E-20	315.0	211.8	315.0	211.8	V-C	4.3358E+04	-15.70	9.000
1.000	1.000	220.8	0.000	0.000	BNA3(3)_336_338_L_0					
91 D	33.61	1.1795E-20	317.0	213.1	317.0	213.1	V-C	4.3358E+04	-15.90	11.00
1.000	1.000	224.1	0.000	0.000	BNA3(3)_336_338_L_0					
92 D	11.29	1.1046E-20	318.0	213.8	318.0	213.8	V-C	4.3358E+04	-16.00	12.00
1.000	1.000	225.8	0.000	0.000	BNA3(3)_336_338_L_0					

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|                PARATIE PLUS 2014 NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Sept23, 2015*                |
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|                NewProject.BaseDesignSection_25.Nominal_60                                                                              |
|                Exe Time :29 June 2020    17:50:46                                                                                          |
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New Project

STRESS RESULTS FOR GROUP NO. 3

WallElement_30 :
ELEMENT TYPE 2 NO.OF ELEMENTS. IN THIS GROUP 91
CURRENT TIME IS 1.0000

WALL2D ELEMENT

EL	TA	TB	MA	MB
1-1.21169E-27	1.21169E-27	4.41762E-29	8.83524E-29	
2-9.08768E-28	9.08768E-28	1.76705E-28	7.57306E-28	
3 3.53410E-27	3.53410E-27	5.11182E-28	1.89327E-28	
4 2.01948E-27	2.01948E-27	6.31089E-30	2.14570E-28	
5 2.01948E-27	2.01948E-27	5.93223E-28	8.33037E-28	
6 4.74579E-27	4.74579E-27	1.00974E-27	1.41364E-27	
7 4.34189E-27	4.34189E-27	1.59034E-27	2.06997E-27	
8 2.82728E-27	2.82728E-27	2.31610E-27	2.43600E-27	
9 1.41036E-17	1.41036E-17	2.41707E-27	2.82072E-18	
10 2.70375E-17	2.70375E-17	2.82072E-18	8.22823E-18	
11 3.88017E-17	3.88017E-17	8.22823E-18	1.59886E-17	
12 4.93959E-17	4.93959E-17	1.59886E-17	2.58678E-17	
13 5.88196E-17	5.88196E-17	2.58678E-17	3.76317E-17	
14 6.70723E-17	6.70723E-17	3.76317E-17	5.10461E-17	
15 7.41528E-17	7.41528E-17	5.10461E-17	6.58767E-17	
16 8.00598E-17	8.00598E-17	6.58767E-17	8.18886E-17	
17 8.47917E-17	8.47917E-17	8.18886E-17	9.88470E-17	
18 8.83461E-17	8.83461E-17	9.88470E-17	1.16516E-16	
19 9.07204E-17	9.07204E-17	1.16516E-16	1.34660E-16	
20 9.19116E-17	9.19116E-17	1.34660E-16	1.53043E-16	
21 9.19223E-17	9.19223E-17	1.53043E-16	1.62235E-16	
22 9.04456E-17	9.04456E-17	1.62235E-16	1.80324E-16	
23 8.44987E-17	8.44987E-17	1.80324E-16	1.97224E-16	
24 7.45571E-17	7.45571E-17	1.97224E-16	2.12135E-16	
25 6.06022E-17	6.06022E-17	2.12135E-16	2.24256E-16	
26 4.26135E-17	4.26135E-17	2.24256E-16	2.32778E-16	
27 2.05686E-17	2.05686E-17	2.32778E-16	2.36892E-16	
28-5.55667E-18	5.55667E-18	2.36892E-16	2.35781E-16	
29-3.57880E-17	3.57880E-17	2.35781E-16	2.28623E-16	
30-7.01526E-17	7.01526E-17	2.28623E-16	2.14592E-16	
31-1.08679E-16	1.08679E-16	2.14592E-16	1.92857E-16	
32-1.51396E-16	1.51396E-16	1.92857E-16	1.62577E-16	
33-1.98335E-16	1.98335E-16	1.62577E-16	1.22910E-16	
34-2.49526E-16	2.49526E-16	1.22910E-16	7.30052E-17	
35-3.05000E-16	3.05000E-16	7.30052E-17	1.20052E-17	
36-3.64787E-16	3.64787E-16	1.20052E-17	6.09518E-17	
37-4.28917E-16	4.28917E-16	6.09518E-17	1.46735E-16	
38-4.97420E-16	4.97420E-16	1.46735E-16	2.46219E-16	
39-5.70322E-16	5.70322E-16	2.46219E-16	3.60284E-16	
40-6.47649E-16	6.47649E-16	3.60284E-16	4.89813E-16	
41 1.04693E-15	1.04693E-15	4.89813E-16	2.80426E-16	
42 9.60688E-16	9.60688E-16	2.80426E-16	8.82885E-17	
43 8.69959E-16	8.69959E-16	8.82885E-17	8.57033E-17	
44 7.74734E-16	7.74734E-16	8.57033E-17	2.40649E-16	
45 6.75006E-16	6.75006E-16	2.40649E-16	3.75651E-16	
46 5.70775E-16	5.70775E-16	3.75651E-16	4.89806E-16	
47 4.62049E-16	4.62049E-16	4.89806E-16	5.82215E-16	
48 3.48843E-16	3.48843E-16	5.82215E-16	6.51984E-16	
49 2.31182E-16	2.31182E-16	6.51984E-16	6.98220E-16	
50 1.09104E-16	1.09104E-16	6.98220E-16	7.20041E-16	
51-1.73440E-17	1.73440E-17	7.20041E-16	7.16572E-16	
52-1.48098E-16	1.48098E-16	7.16572E-16	6.86953E-16	
53-2.83081E-16	2.83081E-16	6.86953E-16	6.30336E-16	
54-4.22199E-16	4.22199E-16	6.30336E-16	5.45897E-16	
55-5.65339E-16	5.65339E-16	5.45897E-16	4.32829E-16	
56-7.12372E-16	7.12372E-16	4.32829E-16	2.90354E-16	
57-8.63145E-16	8.63145E-16	2.90354E-16	1.17726E-16	
58-1.01749E-15	1.01749E-15	1.17726E-16	8.57716E-17	
59-1.17521E-15	1.17521E-15	8.57716E-17	3.20813E-16	
60-1.33609E-15	1.33609E-15	3.20813E-16	5.88032E-16	
61-1.49990E-15	1.49990E-15	5.88032E-16	8.88015E-16	
62-1.66637E-15	1.66637E-15	8.88015E-16	1.22129E-15	
63-1.83522E-15	1.83522E-15	1.22129E-15	1.58833E-15	
64-2.00615E-15	2.00615E-15	1.58833E-15	1.98956E-15	
65-2.17884E-15	2.17884E-15	1.98956E-15	2.42533E-15	
66-2.35295E-15	2.35295E-15	2.42533E-15	2.89592E-15	
67-2.52811E-15	2.52811E-15	2.89592E-15	3.40154E-15	
68-2.70396E-15	2.70396E-15	3.40154E-15	3.94233E-15	
69-2.88011E-15	2.88011E-15	3.94233E-15	4.51836E-15	
70-3.05617E-15	3.05617E-15	4.51836E-15	5.12956E-15	

71-3.23173E-15 3.23173E-15 5.12956E-15-5.77591E-15
72-3.40639E-15 3.40639E-15 5.77591E-15-6.45718E-15
73 3.52567E-15-3.52567E-15 6.45718E-15-5.75205E-15
74 3.35400E-15-3.35400E-15 5.75205E-15-5.08125E-15
75 3.18443E-15-3.18443E-15 5.08125E-15-4.44437E-15
76 3.01732E-15-3.01732E-15 4.44437E-15-3.84090E-15
77 2.77209E-15-2.77209E-15 3.84090E-15-3.28648E-15
78 2.53161E-15-2.53161E-15 3.28648E-15-2.78016E-15
79 2.29636E-15-2.29636E-15 2.78016E-15-2.32089E-15
80 2.06678E-15-2.06678E-15 2.32089E-15-1.90753E-15
81 1.84328E-15-1.84328E-15 1.90753E-15-1.53887E-15
82 1.62622E-15-1.62622E-15 1.53887E-15-1.21363E-15
83 1.41591E-15-1.41591E-15 1.21363E-15-9.30449E-16
84 1.21261E-15-1.21261E-15 9.30449E-16-6.87927E-16
85 1.01654E-15-1.01654E-15 6.87927E-16-4.84618E-16
86 8.27886E-16-8.27886E-16 4.84618E-16-3.19041E-16
87 6.46765E-16-6.46765E-16 3.19041E-16-1.89688E-16
88 4.73273E-16-4.73273E-16 1.89688E-16-9.50332E-17
89 3.07469E-16-3.07469E-16 9.50332E-17-3.35394E-17
90 1.49385E-16-1.49385E-16 3.35394E-17-3.66245E-18
91 3.66209E-17-3.66209E-17 3.66245E-18 2.01948E-28

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|          PARATIE PLUS 2014 NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Sept23, 2015*          |
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|          NewProject.BaseDesignSection_25.Nominal_60                                                                                       |
|          Exe Time :29 June 2020      17:50:46                                                                                             |
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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 . 4

Tieback_341 :
ELEMENT TYPE 6 NO.OF ELEMENTS. IN THIS GROUP 1
C U R R E N T T I M E I S 1.0000

POST-TENSION 2D-BOUNDARY ELEMENT

EL	FORCE	d0	EDISPL	pl. eps	K	-ve limit	+ve limit

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

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|                PARATIE PLUS 2014 NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Sept23, 2015*                |
|                                                                                                                                            |
|                NewProject.BaseDesignSection_25.Nominal_60                                                                              |
|                Exe Time :29 June 2020      17:50:46                                                                              |
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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 . 5

Tieback_342 :
ELEMENT TYPE 6 NO.OF ELEMENTS. IN THIS GROUP 1
C U R R E N T T I M E I S 1.0000

POST-TENSION 2D-BOUNDARY ELEMENT

EL	FORCE	d0	EDISPL	pl. eps	K	-ve limit	+ve limit
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***** NO ONE ELEMENT ACTIVE AT CURRENT STEP *****

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ITER    0  RNORM = 0.000      RMNORM= 0.000
         RINORM=0.9598E+05 RIMNOR=0.6085E-27
         RENORM= 624.9      REMNOR=0.4074E-52 RATIO =0.8069E-01 TOLER =0.1000E-03 NOT CONVERGED
         RFMAX = 44.15      RMMAX =0.6457E-14
         RTSMAL=0.1000E-03 RMSMAL=0.1000E-19
         RDT =0.9598E+05 RDR =0.1000E-19
         RATIOT=0.8069E-01 RATIO= 0.000
         MAX UN= 8.431      IEQ= 51 NODE      26 DOF    1 Y-DISPL.F
         MIN UN=-.4443E-26 IEQ= 5 NODE      3 DOF    1 Y-DISPL.F
         NO. OF CONTACT CONSTRAINT VIOLATIONS    0

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ITER    2  RNORM = 0.000      RMNORM= 0.000
         RINORM=0.9598E+05 RIMNOR=0.6085E-27
         RENORM= 67.30      REMNOR=0.1042E-18 RATIO =0.2648E-01 TOLER =0.1000E-03 NOT CONVERGED
         RFMAX = 44.15      RMMAX =0.6457E-14
         RTSMAL=0.1000E-03 RMSMAL=0.1000E-19
         RDT =0.9598E+05 RDR =0.1000E-19
         RATIOT=0.2648E-01 RATIO= 0.000
         MAX UN= 3.172      IEQ= 45 NODE      23 DOF    1 Y-DISPL.F
         MIN UN=-.5068E-03 IEQ= 175 NODE    88 DOF    1 Y-DISPL.F
         NO. OF CONTACT CONSTRAINT VIOLATIONS    0

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ITER    3  RNORM = 0.000      RMNORM= 0.000
         RINORM=0.9598E+05 RIMNOR=0.6085E-27
         RENORM= 37.86      REMNOR=0.2621E-18 RATIO =0.1986E-01 TOLER =0.1000E-03 NOT CONVERGED
         RFMAX = 44.15      RMMAX =0.6457E-14
         RTSMAL=0.1000E-03 RMSMAL=0.1000E-19
         RDT =0.9598E+05 RDR =0.1000E-19
         RATIOT=0.1986E-01 RATIO= 0.000
         MAX UN= 3.807      IEQ= 59 NODE      30 DOF    1 Y-DISPL.F
         MIN UN=-.3752E-02 IEQ= 101 NODE    51 DOF    1 Y-DISPL.F
         NO. OF CONTACT CONSTRAINT VIOLATIONS    0

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ITER    4  RNORM = 0.000      RMNORM= 0.000
         RINORM=0.9598E+05 RIMNOR=0.6085E-27
         RENORM=0.5375      REMNOR=0.1779E-18 RATIO =0.2367E-02 TOLER =0.1000E-03 NOT CONVERGED
         RFMAX = 44.15      RMMAX =0.6457E-14
         RTSMAL=0.1000E-03 RMSMAL=0.1000E-19
         RDT =0.9598E+05 RDR =0.1000E-19
         RATIOT=0.2367E-02 RATIO= 0.000
         MAX UN=0.7267      IEQ= 71 NODE      36 DOF    1 Y-DISPL.F
         MIN UN=-.6010E-01 IEQ= 103 NODE    52 DOF    1 Y-DISPL.F
         NO. OF CONTACT CONSTRAINT VIOLATIONS    0

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ITER    5  RNORM = 0.000      RMNORM= 0.000
         RINORM=0.9598E+05 RIMNOR=0.6085E-27
         RENORM=0.4482E-16 REMNOR=0.1357E-18 RATIO =0.2161E-10 TOLER =0.1000E-03      CONVERGED !
         RFMAX = 44.15      RMMAX =0.6457E-14
         RTSMAL=0.1000E-03 RMSMAL=0.1000E-19
         RDT =0.9598E+05 RDR =0.1000E-19
         RATIOT=0.2161E-10 RATIO= 0.000
         MAX UN=0.2561E-08 IEQ= 11 NODE      6 DOF    1 Y-DISPL.F
         MIN UN=-.2437E-08 IEQ= 21 NODE      11 DOF    1 Y-DISPL.F
         NO. OF CONTACT CONSTRAINT VIOLATIONS    0

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|                PARATIE PLUS 2014 NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Sept23, 2015*                |
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|                NewProject.BaseDesignSection_25.Nominal_60                                                                              |
|                Exe Time :29 June 2020    17:50:46                                                                                          |
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New Project
SOLUTION REACHED USING 5 ITERATIONS ON 40

PRINT OUT FOR TIME STEP 2 (AT TIME 2.000)

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

	Y-DISPL.F (02)	X-ROT. F (04)	(
1	6.4011476E-03	-8.1418711E-04	
2	6.2383102E-03	-8.1418711E-04	
3	6.0754728E-03	-8.1418711E-04	
4	5.9126353E-03	-8.1418711E-04	
5	5.7497979E-03	-8.1418711E-04	
6	5.5869603E-03	-8.1418711E-04	
7	5.4241229E-03	-8.1418711E-04	
8	5.2612855E-03	-8.1418711E-04	
9	5.0984481E-03	-8.1418711E-04	
10	4.9356110E-03	-8.1418332E-04	
11	4.7727760E-03	-8.1416057E-04	
12	4.6099500E-03	-8.1408852E-04	
13	4.4471469E-03	-8.1392169E-04	
14	4.2843917E-03	-8.1359942E-04	
15	4.1217226E-03	-8.1304587E-04	
16	3.9591949E-03	-8.1217007E-04	
17	3.7968833E-03	-8.1086585E-04	
18	3.6348852E-03	-8.0901189E-04	
19	3.4733243E-03	-8.0647168E-04	
20	3.3123524E-03	-8.0309358E-04	
21	3.1521538E-03	-7.9871075E-04	
22	3.0724108E-03	-7.9609942E-04	
23	2.9137847E-03	-7.8995163E-04	
24	2.7565186E-03	-7.8247800E-04	
25	2.6008907E-03	-7.7354696E-04	
26	2.4472064E-03	-7.6301676E-04	
27	2.2958007E-03	-7.5073547E-04	
28	2.1470383E-03	-7.3656318E-04	
29	2.0013074E-03	-7.2041158E-04	
30	1.8590069E-03	-7.0226139E-04	
31	1.7205327E-03	-6.8216238E-04	
32	1.5862639E-03	-6.6023333E-04	
33	1.4565489E-03	-6.3666205E-04	
34	1.3316925E-03	-6.1168951E-04	
35	1.2119494E-03	-5.8557259E-04	
36	1.0975230E-03	-5.5856291E-04	
37	9.8856781E-04	-5.3090734E-04	
38	8.8518756E-04	-5.0284795E-04	
39	7.8744031E-04	-4.7461331E-04	
40	6.9534027E-04	-4.4640807E-04	
41	6.0886303E-04	-4.1841366E-04	
42	5.2794972E-04	-3.9078953E-04	
43	4.5251284E-04	-3.6367504E-04	
44	3.8243774E-04	-3.3719003E-04	
45	3.1758836E-04	-3.1143679E-04	
46	2.5780888E-04	-2.8650070E-04	
47	2.0292890E-04	-2.6245231E-04	
48	1.5276501E-04	-2.3934800E-04	
49	1.0712386E-04	-2.1723127E-04	
50	6.5804744E-05	-1.9613404E-04	
51	2.8601093E-05	-1.7607725E-04	
52	-4.6963176E-06	-1.5707290E-04	
53	-3.4298517E-05	-1.3912528E-04	
54	-6.0416692E-05	-1.2223157E-04	
55	-8.3260758E-05	-1.0638203E-04	
56	-1.0303806E-04	-9.1560829E-05	
57	-1.1995224E-04	-7.7746804E-05	
58	-1.3420215E-04	-6.4914275E-05	
59	-1.4598132E-04	-5.3033500E-05	
60	-1.5547682E-04	-4.2071810E-05	
61	-1.6286897E-04	-3.1993987E-05	
62	-1.6833093E-04	-2.2762704E-05	
63	-1.7202801E-04	-1.4339546E-05	
64	-1.7411796E-04	-6.6846017E-06	
65	-1.7475037E-04	2.4256868E-07	
66	-1.7406673E-04	6.4827239E-06	
67	-1.7220037E-04	1.2076617E-05	
68	-1.6927647E-04	1.7064702E-05	
69	-1.6541221E-04	2.1486875E-05	
70	-1.6071684E-04	2.5382238E-05	
71	-1.5529219E-04	2.8788733E-05	
72	-1.4923172E-04	3.1743623E-05	
73	-1.4262249E-04	3.4282301E-05	
74	-1.3554428E-04	3.6438867E-05	

75	-1.2807025E-04	3.8245818E-05
76	-1.2026721E-04	3.9733953E-05
77	-1.1219599E-04	4.0932285E-05
78	-1.0391135E-04	4.1874807E-05
79	-9.5460556E-05	4.2599929E-05
80	-8.6883504E-05	4.3143086E-05
81	-7.8213292E-05	4.3536688E-05
82	-6.9476844E-05	4.3810077E-05
83	-6.0695525E-05	4.3989503E-05
84	-5.1885764E-05	4.4098104E-05
85	-4.3059671E-05	4.4155888E-05
86	-3.4225671E-05	4.4179731E-05
87	-2.5389126E-05	4.4183369E-05
88	-1.6552964E-05	4.4177398E-05
89	-7.7183102E-06	4.4169273E-05
90	1.1148888E-06	4.4163306E-05
91	9.9472499E-06	4.4160905E-05
92	1.4363772E-05	4.4160754E-05

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|                PARATIE PLUS 2014 NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Sept23, 2015*                |
|                                                                                                                    |
|                NewProject.BaseDesignSection_25.Nominal_60                                                         |
|                Exe Time :29 June 2020 17:50:46                                                                    |
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New Project

STRESS RESULTS FOR GROUP NO. 1

0_L :
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 92
CURRENT TIME IS 2.0000

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 LAYER	MAX-H-P	STATE	STIFFNESS	Z-LEVEL	PORE	E FAC-
1	0.000	--	--	--	--	--	REMOVED	--	2.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
2	0.000	--	--	--	--	--	REMOVED	--	1.800	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
3	0.000	--	--	--	--	--	REMOVED	--	1.600	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
4	0.000	--	--	--	--	--	REMOVED	--	1.400	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
5	0.000	--	--	--	--	--	REMOVED	--	1.200	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
6	0.000	--	--	--	--	--	REMOVED	--	1.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
7	0.000	--	--	--	--	--	REMOVED	--	0.8000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
8	0.000	--	--	--	--	--	REMOVED	--	0.6000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
9 D	0.2442	-5.0984E-03	2.001	1.221	2.001	2.403	ACTIVE	0.000	0.4000	0.000	
1.000	1.000	1.221	0.000	0.000	FRANA_334_8_L_0						
10 D	0.7322	-4.9356E-03	6.002	3.661	6.002	5.545	ACTIVE	0.000	0.2000	0.000	
1.000	1.000	3.661	0.000	0.000	FRANA_334_8_L_0						
11 D	1.220	-4.7728E-03	10.00	6.102	10.00	8.687	ACTIVE	0.000	-1.4901E-07	0.000	
1.000	1.000	6.102	0.000	0.000	FRANA_334_8_L_0						
12 D	1.708	-4.6099E-03	14.00	8.542	14.00	11.83	ACTIVE	0.000	-0.2000	0.000	
1.000	1.000	8.542	0.000	0.000	FRANA_334_8_L_0						
13 D	2.197	-4.4471E-03	18.00	10.98	18.00	14.97	ACTIVE	0.000	-0.4000	0.000	
1.000	1.000	10.98	0.000	0.000	FRANA_334_8_L_0						
14 D	2.685	-4.2844E-03	22.01	13.42	22.01	18.11	ACTIVE	0.000	-0.6000	0.000	
1.000	1.000	13.42	0.000	0.000	FRANA_334_8_L_0						
15 D	3.173	-4.1217E-03	26.01	15.86	26.01	21.25	ACTIVE	0.000	-0.8000	0.000	
1.000	1.000	15.86	0.000	0.000	FRANA_334_8_L_0						
16 D	3.661	-3.9592E-03	30.01	18.31	30.01	24.39	ACTIVE	0.000	-1.000	0.000	
1.000	1.000	18.31	0.000	0.000	FRANA_334_8_L_0						
17 D	4.149	-3.7969E-03	34.01	20.75	34.01	27.53	ACTIVE	0.000	-1.200	0.000	
1.000	1.000	20.75	0.000	0.000	FRANA_334_8_L_0						
18 D	4.638	-3.6349E-03	38.01	23.19	38.01	30.67	ACTIVE	0.000	-1.400	0.000	
1.000	1.000	23.19	0.000	0.000	FRANA_334_8_L_0						
19 D	5.126	-3.4733E-03	42.02	25.63	42.02	33.81	ACTIVE	0.000	-1.600	0.000	
1.000	1.000	25.63	0.000	0.000	FRANA_334_8_L_0						
20 D	5.614	-3.3124E-03	46.02	28.07	46.02	36.94	ACTIVE	0.000	-1.800	0.000	
1.000	1.000	28.07	0.000	0.000	FRANA_334_8_L_0						
21 D	2.685	-3.1522E-03	50.02	17.90	50.02	31.23	ACTIVE	0.000	-2.000	0.000	
1.000	1.000	17.90	0.000	0.000	BNA3(2)_335_337_L_0						
22 D	2.808	-3.0724E-03	52.02	18.72	52.02	32.45	ACTIVE	0.000	-2.100	0.000	
1.000	1.000	18.72	0.000	0.000	BNA3(2)_335_337_L_0						
23 D	4.071	-2.9138E-03	56.03	20.36	56.03	34.87	ACTIVE	0.000	-2.300	0.000	
1.000	1.000	20.36	0.000	0.000	BNA3(2)_335_337_L_0						
24 D	4.399	-2.7565E-03	60.03	21.99	60.03	37.30	ACTIVE	0.000	-2.500	0.000	
1.000	1.000	21.99	0.000	0.000	BNA3(2)_335_337_L_0						
25 D	4.726	-2.6009E-03	64.03	23.63	64.03	39.73	ACTIVE	0.000	-2.700	0.000	
1.000	1.000	23.63	0.000	0.000	BNA3(2)_335_337_L_0						
26 D	5.054	-2.4472E-03	68.04	25.27	68.04	42.15	ACTIVE	0.000	-2.900	0.000	
1.000	1.000	25.27	0.000	0.000	BNA3(2)_335_337_L_0						
27 D	5.382	-2.2958E-03	72.04	26.91	72.04	44.58	ACTIVE	0.000	-3.100	0.000	
1.000	1.000	26.91	0.000	0.000	BNA3(2)_335_337_L_0						
28 D	5.709	-2.1470E-03	76.05	28.55	76.05	47.01	ACTIVE	0.000	-3.300	0.000	
1.000	1.000	28.55	0.000	0.000	BNA3(2)_335_337_L_0						
29 D	6.037	-2.0013E-03	80.05	30.18	80.05	49.43	ACTIVE	0.000	-3.500	0.000	
1.000	1.000	30.18	0.000	0.000	BNA3(2)_335_337_L_0						
30 D	6.364	-1.8590E-03	84.06	31.82	84.06	51.85	ACTIVE	0.000	-3.700	0.000	
1.000	1.000	31.82	0.000	0.000	BNA3(2)_335_337_L_0						
31 D	6.692	-1.7205E-03	88.07	33.46	88.07	54.27	ACTIVE	0.000	-3.900	0.000	
1.000	1.000	33.46	0.000	0.000	BNA3(2)_335_337_L_0						
32 D	7.020	-1.5863E-03	92.07	35.10	92.07	56.70	ACTIVE	0.000	-4.100	0.000	
1.000	1.000	35.10	0.000	0.000	BNA3(2)_335_337_L_0						
33 D	7.348	-1.4565E-03	96.08	36.74	96.08	59.12	ACTIVE	0.000	-4.300	0.000	
1.000	1.000	36.74	0.000	0.000	BNA3(2)_335_337_L_0						

34	D	7.676	-1.3317E-03	100.1	38.38	100.1	61.54	ACTIVE	0.000	-4.500	0.000
1.000		1.000	38.38	0.000	0.000	BNA3(2)_335_337_L_0					
35	D	8.003	-1.2119E-03	104.1	40.02	104.1	63.95	ACTIVE	0.000	-4.700	0.000
1.000		1.000	40.02	0.000	0.000	BNA3(2)_335_337_L_0					
36	D	8.331	-1.0975E-03	108.1	41.66	108.1	66.37	ACTIVE	0.000	-4.900	0.000
1.000		1.000	41.66	0.000	0.000	BNA3(2)_335_337_L_0					
37	D	8.659	-9.8857E-04	112.1	43.30	112.1	68.79	ACTIVE	0.000	-5.100	0.000
1.000		1.000	43.30	0.000	0.000	BNA3(2)_335_337_L_0					
38	D	9.627	-8.8519E-04	116.1	48.14	116.1	71.21	UL-RL	2.6061E+04	-5.300	0.000
1.000		1.000	48.14	0.000	0.000	BNA3(2)_335_337_L_0					
39	D	10.62	-7.8744E-04	120.1	53.10	120.1	73.62	UL-RL	2.6061E+04	-5.500	0.000
1.000		1.000	53.10	0.000	0.000	BNA3(2)_335_337_L_0					
40	D	11.58	-6.9534E-04	124.1	57.91	124.1	76.03	UL-RL	2.6061E+04	-5.700	0.000
1.000		1.000	57.91	0.000	0.000	BNA3(2)_335_337_L_0					
41	D	12.52	-6.0886E-04	128.2	62.58	128.2	78.45	UL-RL	2.6061E+04	-5.900	0.000
1.000		1.000	62.58	0.000	0.000	BNA3(2)_335_337_L_0					
42	D	13.42	-5.2795E-04	132.2	67.10	132.2	80.86	UL-RL	2.6061E+04	-6.100	0.000
1.000		1.000	67.10	0.000	0.000	BNA3(2)_335_337_L_0					
43	D	14.30	-4.5251E-04	136.2	71.48	136.2	83.27	UL-RL	2.6061E+04	-6.300	0.000
1.000		1.000	71.48	0.000	0.000	BNA3(2)_335_337_L_0					
44	D	15.14	-3.8244E-04	140.2	75.71	140.2	85.68	UL-RL	2.6061E+04	-6.500	0.000
1.000		1.000	75.71	0.000	0.000	BNA3(2)_335_337_L_0					
45	D	15.96	-3.1759E-04	144.2	79.81	144.2	88.09	UL-RL	2.6061E+04	-6.700	0.000
1.000		1.000	79.81	0.000	0.000	BNA3(2)_335_337_L_0					
46	D	16.76	-2.5781E-04	148.2	83.78	148.2	90.50	UL-RL	2.6061E+04	-6.900	0.000
1.000		1.000	83.78	0.000	0.000	BNA3(2)_335_337_L_0					
47	D	17.52	-2.0293E-04	152.2	87.61	152.2	92.90	UL-RL	2.6061E+04	-7.100	0.000
1.000		1.000	87.61	0.000	0.000	BNA3(2)_335_337_L_0					
48	D	18.27	-1.5277E-04	156.2	91.33	156.2	95.31	UL-RL	2.6061E+04	-7.300	0.000
1.000		1.000	91.33	0.000	0.000	BNA3(2)_335_337_L_0					
49	D	18.98	-1.0712E-04	160.3	94.92	160.3	97.71	UL-RL	2.6061E+04	-7.500	0.000
1.000		1.000	94.92	0.000	0.000	BNA3(2)_335_337_L_0					
50	D	19.68	-6.5805E-05	164.3	98.40	164.3	100.1	UL-RL	2.6061E+04	-7.700	0.000
1.000		1.000	98.40	0.000	0.000	BNA3(2)_335_337_L_0					
51	D	20.33	-2.8601E-05	168.3	101.7	168.3	102.7	UL-RL	2.6061E+04	-7.900	0.000
1.000		1.000	101.7	0.000	0.000	BNA3(2)_335_337_L_0					
52	D	20.94	4.6963E-06	172.3	104.7	172.3	105.5	UL-RL	2.6061E+04	-8.100	0.000
1.000		1.000	104.7	0.000	0.000	BNA3(2)_335_337_L_0					
53	D	21.53	3.4299E-05	176.3	107.6	176.3	108.3	UL-RL	2.6061E+04	-8.300	0.000
1.000		1.000	107.6	0.000	0.000	BNA3(2)_335_337_L_0					
54	D	22.10	6.0417E-05	180.3	110.5	180.3	111.0	UL-RL	2.6061E+04	-8.500	0.000
1.000		1.000	110.5	0.000	0.000	BNA3(2)_335_337_L_0					
55	D	22.67	8.3261E-05	184.4	113.3	184.4	113.7	UL-RL	2.6061E+04	-8.700	0.000
1.000		1.000	113.3	0.000	0.000	BNA3(2)_335_337_L_0					
56	D	23.22	1.0304E-04	188.4	116.1	188.4	116.3	UL-RL	2.6061E+04	-8.900	0.000
1.000		1.000	116.1	0.000	0.000	BNA3(2)_335_337_L_0					
57	D	23.77	1.1995E-04	192.4	118.8	192.4	118.9	UL-RL	2.6061E+04	-9.100	0.000
1.000		1.000	118.8	0.000	0.000	BNA3(2)_335_337_L_0					
58	D	24.30	1.3420E-04	196.4	121.5	196.4	121.5	V-C	1.6288E+04	-9.300	0.000
1.000		1.000	121.5	0.000	0.000	BNA3(2)_335_337_L_0					
59	D	24.81	1.4598E-04	200.4	124.1	200.4	124.1	V-C	1.6288E+04	-9.500	0.000
1.000		1.000	124.1	0.000	0.000	BNA3(2)_335_337_L_0					
60	D	25.32	1.5548E-04	204.5	126.6	204.5	126.6	V-C	1.6288E+04	-9.700	0.000
1.000		1.000	126.6	0.000	0.000	BNA3(2)_335_337_L_0					
61	D	25.82	1.6287E-04	208.5	129.1	208.5	129.1	V-C	1.6288E+04	-9.900	0.000
1.000		1.000	129.1	0.000	0.000	BNA3(2)_335_337_L_0					
62	D	26.32	1.6833E-04	212.5	131.6	212.5	131.6	V-C	1.6288E+04	-10.10	0.000
1.000		1.000	131.6	0.000	0.000	BNA3(2)_335_337_L_0					
63	D	26.81	1.7203E-04	216.5	134.0	216.5	134.0	V-C	1.6288E+04	-10.30	0.000
1.000		1.000	134.0	0.000	0.000	BNA3(2)_335_337_L_0					
64	D	27.29	1.7412E-04	220.5	136.5	220.5	136.5	V-C	1.6288E+04	-10.50	0.000
1.000		1.000	136.5	0.000	0.000	BNA3(2)_335_337_L_0					
65	D	27.77	1.7475E-04	224.6	138.9	224.6	138.9	V-C	1.6288E+04	-10.70	0.000
1.000		1.000	138.9	0.000	0.000	BNA3(2)_335_337_L_0					
66	D	28.25	1.7407E-04	228.6	141.2	228.6	141.2	V-C	1.6288E+04	-10.90	0.000
1.000		1.000	141.2	0.000	0.000	BNA3(2)_335_337_L_0					
67	D	28.72	1.7220E-04	232.6	143.6	232.6	143.6	V-C	1.6288E+04	-11.10	0.000
1.000		1.000	143.6	0.000	0.000	BNA3(2)_335_337_L_0					
68	D	29.18	1.6928E-04	236.6	145.9	236.6	145.9	V-C	1.6288E+04	-11.30	0.000
1.000		1.000	145.9	0.000	0.000	BNA3(2)_335_337_L_0					
69	D	29.65	1.6541E-04	240.7	148.2	240.7	148.2	V-C	1.6288E+04	-11.50	0.000
1.000		1.000	148.2	0.000	0.000	BNA3(2)_335_337_L_0					
70	D	30.11	1.6072E-04	244.7	150.5	244.7	150.5	V-C	1.6288E+04	-11.70	0.000
1.000		1.000	150.5	0.000	0.000	BNA3(2)_335_337_L_0					
71	D	30.57	1.5529E-04	248.7	152.8	248.7	152.8	V-C	1.6288E+04	-11.90	0.000
1.000		1.000	152.8	0.000	0.000	BNA3(2)_335_337_L_0					
72	D	31.02	1.4923E-04	252.7	155.1	252.7	155.1	V-C	1.6288E+04	-12.10	0.000
1.000		1.000	155.1	0.000	0.000	BNA3(2)_335_337_L_0					
73	D	31.48	1.4262E-04	256.8	157.4	256.8	157.4	V-C	1.6288E+04	-12.30	0.000
1.000		1.000	157.4	0.000	0.000	BNA3(2)_335_337_L_0					
74	D	31.93	1.3554E-04	260.8	159.6	260.8	159.6	V-C	1.6288E+04	-12.50	0.000
1.000		1.000	159.6	0.000	0.000	BNA3(2)_335_337_L_0					
75	D	32.38	1.2807E-04	264.8	161.9	264.8	161.9	V-C	1.6288E+04	-12.70	0.000
1.000		1.000	161.9	0.000	0.000	BNA3(2)_335_337_L_0					
76	D	32.83	1.2027E-04	268.8	164.1	268.8	164.1	V-C	1.6288E+04	-12.90	0.000
1.000		1.000	164.1	0.000	0.000	BNA3(2)_335_337_L_0					
77	D	37.17	1.1220E-04	272.9	185.8	272.9	185.8	V-C	2.2523E+04	-13.10	0.000
1.000		1.000	185.8	0.000	0.000	BNA3(3)_336_338_L_0					
78	D	37.66	1.0391E-04	276.9	188.3	276.9	188.3	V-C	2.2523E+04	-13.30	0.000
1.000		1.000	188.3	0.000	0.000	BNA3(3)_336_338_L_0					
79	D	38.15	9.5461E-05	280.9	190.8	280.9	190.8	V-C	2.2523E+04	-13.50	0.000
1.000		1.000	190.8	0.000	0.000	BNA3(3)_336_338_L_0					

80 D	38.64	8.6884E-05	285.0	193.2	285.0	193.2	V-C	2.2523E+04	-13.70	0.000
1.000	1.000	193.2	0.000	0.000	BNA3(3)_336_338_L_0					
81 D	39.13	7.8213E-05	289.0	195.6	289.0	195.6	V-C	2.2523E+04	-13.90	0.000
1.000	1.000	195.6	0.000	0.000	BNA3(3)_336_338_L_0					
82 D	39.62	6.9477E-05	293.0	198.1	293.0	198.1	V-C	2.2523E+04	-14.10	0.000
1.000	1.000	198.1	0.000	0.000	BNA3(3)_336_338_L_0					
83 D	40.11	6.0696E-05	297.1	200.5	297.1	200.5	V-C	2.2523E+04	-14.30	0.000
1.000	1.000	200.5	0.000	0.000	BNA3(3)_336_338_L_0					
84 D	40.59	5.1886E-05	301.1	203.0	301.1	203.0	V-C	2.2523E+04	-14.50	0.000
1.000	1.000	203.0	0.000	0.000	BNA3(3)_336_338_L_0					
85 D	41.08	4.3060E-05	305.1	205.4	305.1	205.4	V-C	2.2523E+04	-14.70	0.000
1.000	1.000	205.4	0.000	0.000	BNA3(3)_336_338_L_0					
86 D	41.64	3.4226E-05	308.2	207.2	308.2	207.2	V-C	2.2523E+04	-14.90	0.9999
1.000	1.000	207.2	0.000	0.000	BNA3(3)_336_338_L_0					
87 D	42.27	2.5389E-05	310.2	208.3	310.2	208.3	V-C	2.2523E+04	-15.10	3.000
1.000	1.000	211.3	0.000	0.000	BNA3(3)_336_338_L_0					
88 D	42.89	1.6553E-05	312.2	209.5	312.2	209.5	V-C	2.2523E+04	-15.30	5.000
1.000	1.000	214.5	0.000	0.000	BNA3(3)_336_338_L_0					
89 D	43.52	7.7183E-06	314.2	210.6	314.2	210.6	V-C	2.2523E+04	-15.50	7.000
1.000	1.000	217.6	0.000	0.000	BNA3(3)_336_338_L_0					
90 D	44.14	-1.1149E-06	316.3	211.7	316.3	211.8	UL-RL	3.6037E+04	-15.70	9.000
1.000	1.000	220.7	0.000	0.000	BNA3(3)_336_338_L_0					
91 D	33.56	-9.9472E-06	318.3	212.7	318.3	213.1	UL-RL	3.6037E+04	-15.90	11.00
1.000	1.000	223.7	0.000	0.000	BNA3(3)_336_338_L_0					
92 D	11.26	-1.4364E-05	319.3	213.2	319.3	213.8	UL-RL	3.6037E+04	-16.00	12.00
1.000	1.000	225.2	0.000	0.000	BNA3(3)_336_338_L_0					

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|                PARATIE PLUS 2014 NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Sept23, 2015*                |
|                                                                                                            |
|                NewProject.BaseDesignSection_25.Nominal_60                                             |
|                Exe Time :29 June 2020      17:50:46                                                    |
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New Project

STRESS RESULTS FOR GROUP NO. 2

O_R :
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 92
CURRENT TIME IS 2.0000

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 LAYER	MAX-H-P	STATE	STIFFNESS	Z-LEVEL	PORE	E FAC-
1	0.000	--	--	--	--	--	REMOVED	--	2.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
2	0.000	--	--	--	--	--	REMOVED	--	1.800	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
3	0.000	--	--	--	--	--	REMOVED	--	1.600	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
4	0.000	--	--	--	--	--	REMOVED	--	1.400	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
5	0.000	--	--	--	--	--	REMOVED	--	1.200	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
6	0.000	--	--	--	--	--	REMOVED	--	1.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
7	0.000	--	--	--	--	--	REMOVED	--	0.8000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
8	0.000	--	--	--	--	--	REMOVED	--	0.6000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
9	0.000	--	--	--	--	--	REMOVED	--	0.4000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
10	0.000	--	--	--	--	--	REMOVED	--	0.2000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
11	0.000	--	--	--	--	--	REMOVED	--	-1.4901E-07	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
12	0.000	--	--	--	--	--	REMOVED	--	-0.2000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
13	0.000	--	--	--	--	--	REMOVED	--	-0.4000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
14	0.000	--	--	--	--	--	REMOVED	--	-0.6000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
15	0.000	--	--	--	--	--	REMOVED	--	-0.8000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
16	0.000	--	--	--	--	--	REMOVED	--	-1.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
17	0.000	--	--	--	--	--	REMOVED	--	-1.200	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
18	0.000	--	--	--	--	--	REMOVED	--	-1.400	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
19	0.000	--	--	--	--	--	REMOVED	--	-1.600	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
20	0.000	--	--	--	--	--	REMOVED	--	-1.800	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
21	0.000	--	--	--	--	--	REMOVED	--	-2.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
22	0.000	--	--	--	--	--	REMOVED	--	-2.100	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
23	0.000	--	--	--	--	--	REMOVED	--	-2.300	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
24	0.000	--	--	--	--	--	REMOVED	--	-2.500	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
25	0.000	--	--	--	--	--	REMOVED	--	-2.700	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
26	0.000	--	--	--	--	--	REMOVED	--	-2.900	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
27 D	1.428	2.2958E-03	0.000	7.141	72.00	44.58	PASSIVE	0.000	-3.100	0.000	
1.000	1.000	7.141	0.000	0.000	BNA3(2)_335_337_L_0						
28 D	3.978	2.1470E-03	4.000	19.89	76.00	47.01	PASSIVE	0.000	-3.300	0.000	
1.000	1.000	19.89	0.000	0.000	BNA3(2)_335_337_L_0						
29 D	6.527	2.0013E-03	8.000	32.64	80.00	49.43	PASSIVE	0.000	-3.500	0.000	
1.000	1.000	32.64	0.000	0.000	BNA3(2)_335_337_L_0						
30 D	9.077	1.8590E-03	12.00	45.38	84.00	51.85	PASSIVE	0.000	-3.700	0.000	
1.000	1.000	45.38	0.000	0.000	BNA3(2)_335_337_L_0						
31 D	11.63	1.7205E-03	16.00	58.13	88.00	58.13	PASSIVE	0.000	-3.900	0.000	
1.000	1.000	58.13	0.000	0.000	BNA3(2)_335_337_L_0						
32 D	14.18	1.5863E-03	20.00	70.88	92.00	70.88	PASSIVE	0.000	-4.100	0.000	
1.000	1.000	70.88	0.000	0.000	BNA3(2)_335_337_L_0						
33 D	15.70	1.4565E-03	24.00	78.52	96.00	78.52	V-C	1.3323E+04	-4.300	0.000	
1.000	1.000	78.52	0.000	0.000	BNA3(2)_335_337_L_0						

34 D	15.86	1.3317E-03	28.00	79.28	100.0	79.28	V-C	1.3323E+04	-4.500	0.000
1.000	1.000	79.28	0.000	0.000	BNA3(2)_335_337_L_0					
35 D	16.02	1.2119E-03	32.00	80.10	104.0	80.10	V-C	1.3323E+04	-4.700	0.000
1.000	1.000	80.10	0.000	0.000	BNA3(2)_335_337_L_0					
36 D	16.20	1.0975E-03	36.00	81.00	108.0	81.00	V-C	1.3323E+04	-4.900	0.000
1.000	1.000	81.00	0.000	0.000	BNA3(2)_335_337_L_0					
37 D	16.39	9.8857E-04	40.00	81.96	112.0	81.96	V-C	1.3323E+04	-5.100	0.000
1.000	1.000	81.96	0.000	0.000	BNA3(2)_335_337_L_0					
38 D	16.60	8.8519E-04	44.00	83.00	116.0	83.00	V-C	1.3323E+04	-5.300	0.000
1.000	1.000	83.00	0.000	0.000	BNA3(2)_335_337_L_0					
39 D	16.82	7.8744E-04	48.00	84.11	120.0	84.11	V-C	1.3323E+04	-5.500	0.000
1.000	1.000	84.11	0.000	0.000	BNA3(2)_335_337_L_0					
40 D	17.06	6.9534E-04	52.00	85.30	124.0	85.30	V-C	1.3323E+04	-5.700	0.000
1.000	1.000	85.30	0.000	0.000	BNA3(2)_335_337_L_0					
41 D	17.31	6.0886E-04	56.00	86.56	128.0	86.56	V-C	1.3323E+04	-5.900	0.000
1.000	1.000	86.56	0.000	0.000	BNA3(2)_335_337_L_0					
42 D	17.58	5.2795E-04	60.00	87.89	132.0	87.89	V-C	1.3323E+04	-6.100	0.000
1.000	1.000	87.89	0.000	0.000	BNA3(2)_335_337_L_0					
43 D	17.86	4.5251E-04	64.00	89.30	136.0	89.30	V-C	1.3323E+04	-6.300	0.000
1.000	1.000	89.30	0.000	0.000	BNA3(2)_335_337_L_0					
44 D	18.15	3.8244E-04	68.00	90.77	140.0	90.77	V-C	1.3323E+04	-6.500	0.000
1.000	1.000	90.77	0.000	0.000	BNA3(2)_335_337_L_0					
45 D	18.46	3.1759E-04	72.00	92.32	144.0	92.32	V-C	1.3323E+04	-6.700	0.000
1.000	1.000	92.32	0.000	0.000	BNA3(2)_335_337_L_0					
46 D	18.79	2.5781E-04	76.00	93.93	148.0	93.93	V-C	1.3323E+04	-6.900	0.000
1.000	1.000	93.93	0.000	0.000	BNA3(2)_335_337_L_0					
47 D	19.12	2.0293E-04	80.00	95.61	152.0	95.61	V-C	1.3323E+04	-7.100	0.000
1.000	1.000	95.61	0.000	0.000	BNA3(2)_335_337_L_0					
48 D	19.47	1.5277E-04	84.00	97.34	156.0	97.34	V-C	1.3323E+04	-7.300	0.000
1.000	1.000	97.34	0.000	0.000	BNA3(2)_335_337_L_0					
49 D	19.83	1.0712E-04	88.00	99.14	160.0	99.14	V-C	1.3323E+04	-7.500	0.000
1.000	1.000	99.14	0.000	0.000	BNA3(2)_335_337_L_0					
50 D	20.20	6.5805E-05	92.00	101.0	164.0	101.0	V-C	1.3323E+04	-7.700	0.000
1.000	1.000	101.0	0.000	0.000	BNA3(2)_335_337_L_0					
51 D	20.58	2.8601E-05	96.00	102.9	168.0	102.9	V-C	1.3323E+04	-7.900	0.000
1.000	1.000	102.9	0.000	0.000	BNA3(2)_335_337_L_0					
52 D	20.96	-4.6963E-06	100.0	104.8	172.0	104.9	UL-RL	2.1318E+04	-8.100	0.000
1.000	1.000	104.8	0.000	0.000	BNA3(2)_335_337_L_0					
53 D	21.32	-3.4299E-05	104.0	106.6	176.0	107.3	UL-RL	2.1318E+04	-8.300	0.000
1.000	1.000	106.6	0.000	0.000	BNA3(2)_335_337_L_0					
54 D	21.69	-6.0417E-05	108.0	108.4	180.0	109.7	UL-RL	2.1318E+04	-8.500	0.000
1.000	1.000	108.4	0.000	0.000	BNA3(2)_335_337_L_0					
55 D	22.07	-8.3261E-05	112.0	110.3	184.0	112.1	UL-RL	2.1318E+04	-8.700	0.000
1.000	1.000	110.3	0.000	0.000	BNA3(2)_335_337_L_0					
56 D	22.46	-1.0304E-04	116.0	112.3	188.0	114.5	UL-RL	2.1318E+04	-8.900	0.000
1.000	1.000	112.3	0.000	0.000	BNA3(2)_335_337_L_0					
57 D	22.87	-1.1995E-04	120.0	114.3	192.0	116.9	UL-RL	2.1318E+04	-9.100	0.000
1.000	1.000	114.3	0.000	0.000	BNA3(2)_335_337_L_0					
58 D	23.29	-1.3420E-04	124.0	116.4	196.0	119.3	UL-RL	2.1318E+04	-9.300	0.000
1.000	1.000	116.4	0.000	0.000	BNA3(2)_335_337_L_0					
59 D	23.72	-1.4598E-04	128.0	118.6	200.0	121.7	UL-RL	2.1318E+04	-9.500	0.000
1.000	1.000	118.6	0.000	0.000	BNA3(2)_335_337_L_0					
60 D	24.15	-1.5548E-04	132.0	120.8	204.0	124.1	UL-RL	2.1318E+04	-9.700	0.000
1.000	1.000	120.8	0.000	0.000	BNA3(2)_335_337_L_0					
61 D	24.60	-1.6287E-04	136.0	123.0	208.0	126.5	UL-RL	2.1318E+04	-9.900	0.000
1.000	1.000	123.0	0.000	0.000	BNA3(2)_335_337_L_0					
62 D	25.05	-1.6833E-04	140.0	125.3	212.0	128.9	UL-RL	2.1318E+04	-10.10	0.000
1.000	1.000	125.3	0.000	0.000	BNA3(2)_335_337_L_0					
63 D	25.52	-1.7203E-04	144.0	127.6	216.0	131.2	UL-RL	2.1318E+04	-10.30	0.000
1.000	1.000	127.6	0.000	0.000	BNA3(2)_335_337_L_0					
64 D	25.98	-1.7412E-04	148.0	129.9	220.0	133.6	UL-RL	2.1318E+04	-10.50	0.000
1.000	1.000	129.9	0.000	0.000	BNA3(2)_335_337_L_0					
65 D	26.46	-1.7475E-04	152.0	132.3	224.0	136.0	UL-RL	2.1318E+04	-10.70	0.000
1.000	1.000	132.3	0.000	0.000	BNA3(2)_335_337_L_0					
66 D	26.94	-1.7407E-04	156.0	134.7	228.0	138.4	UL-RL	2.1318E+04	-10.90	0.000
1.000	1.000	134.7	0.000	0.000	BNA3(2)_335_337_L_0					
67 D	27.42	-1.7220E-04	160.0	137.1	232.0	140.8	UL-RL	2.1318E+04	-11.10	0.000
1.000	1.000	137.1	0.000	0.000	BNA3(2)_335_337_L_0					
68 D	27.91	-1.6928E-04	164.0	139.6	236.0	143.2	UL-RL	2.1318E+04	-11.30	0.000
1.000	1.000	139.6	0.000	0.000	BNA3(2)_335_337_L_0					
69 D	28.40	-1.6541E-04	168.0	142.0	240.0	145.5	UL-RL	2.1318E+04	-11.50	0.000
1.000	1.000	142.0	0.000	0.000	BNA3(2)_335_337_L_0					
70 D	28.90	-1.6072E-04	172.0	144.5	244.0	147.9	UL-RL	2.1318E+04	-11.70	0.000
1.000	1.000	144.5	0.000	0.000	BNA3(2)_335_337_L_0					
71 D	29.40	-1.5529E-04	176.0	147.0	248.0	150.3	UL-RL	2.1318E+04	-11.90	0.000
1.000	1.000	147.0	0.000	0.000	BNA3(2)_335_337_L_0					
72 D	29.90	-1.4923E-04	180.0	149.5	252.0	152.7	UL-RL	2.1318E+04	-12.10	0.000
1.000	1.000	149.5	0.000	0.000	BNA3(2)_335_337_L_0					
73 D	30.40	-1.4262E-04	184.0	152.0	256.0	155.1	UL-RL	2.1318E+04	-12.30	0.000
1.000	1.000	152.0	0.000	0.000	BNA3(2)_335_337_L_0					
74 D	30.91	-1.3554E-04	188.0	154.5	260.0	157.4	UL-RL	2.1318E+04	-12.50	0.000
1.000	1.000	154.5	0.000	0.000	BNA3(2)_335_337_L_0					
75 D	31.41	-1.2807E-04	192.0	157.1	264.0	159.8	UL-RL	2.1318E+04	-12.70	0.000
1.000	1.000	157.1	0.000	0.000	BNA3(2)_335_337_L_0					
76 D	31.92	-1.2027E-04	196.0	159.6	268.0	162.2	UL-RL	2.1318E+04	-12.90	0.000
1.000	1.000	159.6	0.000	0.000	BNA3(2)_335_337_L_0					
77 D	35.88	-1.1220E-04	200.0	179.4	272.0	183.3	UL-RL	3.4686E+04	-13.10	0.000
1.000	1.000	179.4	0.000	0.000	BNA3(3)_336_338_L_0					
78 D	36.47	-1.0391E-04	204.0	182.4	276.0	186.0	UL-RL	3.4686E+04	-13.30	0.000
1.000	1.000	182.4	0.000	0.000	BNA3(3)_336_338_L_0					
79 D	37.06	-9.5461E-05	208.0	185.3	280.0	188.6	UL-RL	3.4686E+04	-13.50	0.000
1.000	1.000	185.3	0.000	0.000	BNA3(3)_336_338_L_0					

80 D	37.65	-8.6884E-05	212.0	188.2	284.0	191.2	UL-RL	3.4686E+04	-13.70	0.000
1.000	1.000	188.2	0.000	0.000	BNA3(3)_336_338_L_0					
81 D	38.23	-7.8213E-05	216.0	191.2	288.0	193.9	UL-RL	3.4686E+04	-13.90	0.000
1.000	1.000	191.2	0.000	0.000	BNA3(3)_336_338_L_0					
82 D	38.82	-6.9477E-05	220.0	194.1	292.0	196.5	UL-RL	3.4686E+04	-14.10	0.000
1.000	1.000	194.1	0.000	0.000	BNA3(3)_336_338_L_0					
83 D	39.41	-6.0696E-05	224.0	197.1	296.0	199.2	UL-RL	3.4686E+04	-14.30	0.000
1.000	1.000	197.1	0.000	0.000	BNA3(3)_336_338_L_0					
84 D	40.00	-5.1886E-05	228.0	200.0	300.0	201.8	UL-RL	3.4686E+04	-14.50	0.000
1.000	1.000	200.0	0.000	0.000	BNA3(3)_336_338_L_0					
85 D	40.59	-4.3060E-05	232.0	202.9	304.0	204.4	UL-RL	3.4686E+04	-14.70	0.000
1.000	1.000	202.9	0.000	0.000	BNA3(3)_336_338_L_0					
86 D	41.25	-3.4226E-05	235.0	205.2	307.0	206.4	UL-RL	3.4686E+04	-14.90	0.9999
1.000	1.000	206.2	0.000	0.000	BNA3(3)_336_338_L_0					
87 D	41.98	-2.5389E-05	237.0	206.9	309.0	207.8	UL-RL	3.4686E+04	-15.10	3.000
1.000	1.000	209.9	0.000	0.000	BNA3(3)_336_338_L_0					
88 D	42.70	-1.6553E-05	239.0	208.5	311.0	209.1	UL-RL	3.4686E+04	-15.30	5.000
1.000	1.000	213.5	0.000	0.000	BNA3(3)_336_338_L_0					
89 D	43.43	-7.7183E-06	241.0	210.2	313.0	210.4	UL-RL	3.4686E+04	-15.50	7.000
1.000	1.000	217.2	0.000	0.000	BNA3(3)_336_338_L_0					
90 D	44.14	1.1149E-06	243.0	211.7	315.0	211.9	UL-RL	3.4686E+04	-15.70	9.000
1.000	1.000	220.7	0.000	0.000	BNA3(3)_336_338_L_0					
91 D	33.64	9.9472E-06	245.0	213.2	317.0	213.4	UL-RL	3.4686E+04	-15.90	11.00
1.000	1.000	224.2	0.000	0.000	BNA3(3)_336_338_L_0					
92 D	11.30	1.4364E-05	246.0	214.0	318.0	214.2	UL-RL	3.4686E+04	-16.00	12.00
1.000	1.000	226.0	0.000	0.000	BNA3(3)_336_338_L_0					

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|                PARATIE PLUS 2014 NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Sept23, 2015*                |
|                                                                                                                                            |
|                                                                                                                                            |
|                NewProject.BaseDesignSection_25.Nominal_60                                                                              |
|                Exe Time :29 June 2020    17:50:46                                                                                          |
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New Project

STRESS RESULTS FOR GROUP NO. 3

WallElement_30 :
ELEMENT TYPE 2 NO.OF ELEMENTS. IN THIS GROUP 91
CURRENT TIME IS 2.0000

WALL2D ELEMENT

EL	TA	TB	MA	MB
1	8.82210E-10	-8.82210E-10	8.83844E-11	-4.42384E-11
2	-2.57046E-10	2.57046E-10	1.06368E-10	-7.28448E-11
3	-2.53294E-10	2.53294E-10	2.32916E-11	7.75060E-11
4	-2.11912E-10	2.11912E-10	-1.21311E-10	2.13944E-10
5	1.37072E-09	-1.37072E-09	-9.45164E-11	3.74854E-10
6	-1.19053E-09	1.19053E-09	-3.54724E-10	1.26377E-10
7	-7.90124E-11	7.90124E-11	-2.50509E-10	2.32944E-10
8	4.79076E-10	-4.79076E-10	-1.89374E-10	2.36980E-10
9	0.24417	-0.24417	-1.18341E-10	4.88338E-02
10	0.97641	-0.97641	-4.88338E-02	0.24412
11	2.1967	-2.1967	-0.24412	0.68346
12	3.9052	-3.9052	-0.68346	1.4645
13	6.1017	-6.1017	-1.4645	2.6848
14	8.7865	-8.7865	-2.6848	4.4421
15	11.959	-11.959	-4.4421	6.8340
16	15.620	-15.620	-6.8340	9.9581
17	19.770	-19.770	-9.9581	13.912
18	24.407	-24.407	-13.912	18.794
19	29.533	-29.533	-18.794	24.700
20	35.148	-35.148	-24.700	31.730
21	37.833	-37.833	-31.730	35.513
22	40.640	-40.640	-35.513	43.641
23	44.712	-44.712	-43.641	52.583
24	49.111	-49.111	-52.583	62.406
25	53.837	-53.837	-62.406	73.173
26	58.891	-58.891	-73.173	84.951
27	62.844	-62.844	-84.951	97.520
28	64.576	-64.576	-97.520	110.44
29	64.085	-64.085	-110.44	123.25
30	61.373	-61.373	-123.25	135.53
31	56.438	-56.438	-135.53	146.81
32	49.282	-49.282	-146.81	156.67
33	40.925	-40.925	-156.67	164.86
34	32.745	-32.745	-164.86	171.40
35	24.728	-24.728	-171.40	176.35
36	16.860	-16.860	-176.35	179.72
37	9.1274	-9.1274	-179.72	181.55
38	2.1549	-2.1549	-181.55	181.98
39	-4.0477	4.0477	-181.98	181.17
40	-9.5248	9.5248	-181.17	179.26
41	-14.321	14.321	-179.26	176.40
42	-18.479	18.479	-176.40	172.70
43	-22.044	22.044	-172.70	168.30
44	-25.056	25.056	-168.30	163.28
45	-27.558	27.558	-163.28	157.77
46	-29.589	29.589	-157.77	151.86
47	-31.187	31.187	-151.86	145.62
48	-32.390	32.390	-145.62	139.14
49	-33.234	33.234	-139.14	132.49
50	-33.752	33.752	-132.49	125.74
51	-34.000	34.000	-125.74	118.94
52	-34.028	34.028	-118.94	112.14
53	-33.819	33.819	-112.14	105.37
54	-33.401	33.401	-105.37	98.693
55	-32.799	32.799	-98.693	92.133
56	-32.039	32.039	-92.133	85.725
57	-31.142	31.142	-85.725	79.497
58	-30.133	30.133	-79.497	73.470
59	-29.035	29.035	-73.470	67.664
60	-27.865	27.865	-67.664	62.091
61	-26.640	26.640	-62.091	56.762
62	-25.374	25.374	-56.762	51.688
63	-24.080	24.080	-51.688	46.871
64	-22.771	22.771	-46.871	42.317
65	-21.456	21.456	-42.317	38.026
66	-20.147	20.147	-38.026	33.997
67	-18.852	18.852	-33.997	30.226
68	-17.579	17.579	-30.226	26.710
69	-16.335	16.335	-26.710	23.443
70	-15.126	15.126	-23.443	20.418

71	-13.958	13.958	-20.418	17.627
72	-12.836	12.836	-17.627	15.059
73	-11.763	11.763	-15.059	12.707
74	-10.744	10.744	-12.707	10.558
75	-9.7804	9.7804	-10.558	8.6020
76	-8.8759	8.8759	-8.6020	6.8268
77	-7.5922	7.5922	-6.8268	5.3084
78	-6.4032	6.4032	-5.3084	4.0277
79	-5.3110	5.3110	-4.0277	2.9655
80	-4.3168	4.3168	-2.9655	2.1022
81	-3.4219	3.4219	-2.1022	1.4178
82	-2.6270	2.6270	-1.4178	0.89238
83	-1.9325	1.9325	-0.89238	0.50588
84	-1.3388	1.3388	-0.50588	0.23811
85	-0.84616	0.84616	-0.23811	6.88757E-02
86	-0.45455	0.45455	-6.88757E-02	-2.20344E-02
87	-0.16405	0.16405	2.20344E-02	-5.48445E-02
88	2.53471E-02	-2.53471E-02	5.48445E-02	-4.97751E-02
89	0.11366	-0.11366	4.97751E-02	-2.70432E-02
90	0.11582	-0.11582	2.70432E-02	-3.87915E-03
91	3.87876E-02	-3.87876E-02	3.87915E-03	2.11386E-13

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|          PARATIE PLUS 2014 NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Sept23, 2015*          |
|                                                                                                                                            |
|                                                                 NewProject.BaseDesignSection_25.Nominal_60                               |
|                                                                 Exe Time :29 June 2020      17:50:46                               |
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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. 4

Tieback_341 :
ELEMENT TYPE 6 NO.OF ELEMENTS. IN THIS GROUP 1
C U R R E N T T I M E I S 2.0000

POST-TENSION 2D-BOUNDARY ELEMENT

```
-----+
|          EL   FORCE          d0          EDISPL   pl. eps          K   -ve limit   +ve limit          |
+-----+
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***** NO ONE ELEMENT ACTIVE AT CURRENT STEP *****


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|                PARATIE PLUS 2014 NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Sept23, 2015*                |
|                                                                                                                                            |
|                NewProject.BaseDesignSection_25.Nominal_60                                                                              |
|                Exe Time :29 June 2020      17:50:46                                                                              |
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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 . 5

Tieback_342 :
ELEMENT TYPE 6 NO.OF ELEMENTS. IN THIS GROUP 1
C U R R E N T T I M E I S 2.0000

POST-TENSION 2D-BOUNDARY ELEMENT

EL	FORCE	d0	EDISPL	pl. eps	K	-ve limit	+ve limit
----	-------	----	--------	---------	---	-----------	-----------

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

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ITER    0  RNORM = 0.000    RMNORM= 0.000
         RINORM=0.2391E+06 RIMNOR=0.1429E+07
         RENORM=0.1219E+05 REMNOR=0.1357E-18 RATIO =0.2258    TOLER =0.1000E-03 NOT CONVERGED
         RFMAX = 110.4    RMMAX = 182.0
         RTSMAL=0.1000E-02 RMSMAL=0.1000E-02
         RDT =0.2391E+06 RDR =0.1429E+07
         RATIO=0.2258    RATIO= 0.000
         MAX UN=0.2561E-08 IEQ= 11 NODE        6 DOF    1 Y-DISPL.F
         MIN UN=-110.4    IEQ= 43 NODE        22 DOF    1 Y-DISPL.F
         NO. OF CONTACT CONSTRAINT VIOLATIONS    0

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ITER    2  RNORM = 0.000    RMNORM= 0.000
         RINORM=0.2391E+06 RIMNOR=0.1429E+07
         RENORM= 15.15    REMNOR=0.1595E-18 RATIO =0.7960E-02 TOLER =0.1000E-03 NOT CONVERGED
         RFMAX = 110.4    RMMAX = 182.0
         RTSMAL=0.1000E-02 RMSMAL=0.1000E-02
         RDT =0.2391E+06 RDR =0.1429E+07
         RATIO=0.7960E-02 RATIO= 0.000
         MAX UN=0.3296E-01 IEQ= 103 NODE       52 DOF    1 Y-DISPL.F
         MIN UN=-2.406    IEQ= 53 NODE        27 DOF    1 Y-DISPL.F
         NO. OF CONTACT CONSTRAINT VIOLATIONS    0

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ITER    3  RNORM = 0.000    RMNORM= 0.000
         RINORM=0.2391E+06 RIMNOR=0.1429E+07
         RENORM=0.5044E-01 REMNOR=0.3789E-19 RATIO =0.4593E-03 TOLER =0.1000E-03 NOT CONVERGED
         RFMAX = 110.4    RMMAX = 182.0
         RTSMAL=0.1000E-02 RMSMAL=0.1000E-02
         RDT =0.2391E+06 RDR =0.1429E+07
         RATIO=0.4593E-03 RATIO= 0.000
         MAX UN=0.1831E-01 IEQ= 105 NODE       53 DOF    1 Y-DISPL.F
         MIN UN=-.1884    IEQ= 57 NODE        29 DOF    1 Y-DISPL.F
         NO. OF CONTACT CONSTRAINT VIOLATIONS    0

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ITER    4  RNORM = 0.000    RMNORM= 0.000
         RINORM=0.2391E+06 RIMNOR=0.1429E+07
         RENORM=0.1236E-04 REMNOR=0.2118E-19 RATIO =0.7191E-05 TOLER =0.1000E-03    CONVERGED !
         RFMAX = 110.4    RMMAX = 182.0
         RTSMAL=0.1000E-02 RMSMAL=0.1000E-02
         RDT =0.2391E+06 RDR =0.1429E+07
         RATIO=0.7191E-05 RATIO= 0.000
         MAX UN=0.7657E-04 IEQ= 99 NODE        50 DOF    1 Y-DISPL.F
         MIN UN=-.3515E-02 IEQ= 59 NODE        30 DOF    1 Y-DISPL.F
         NO. OF CONTACT CONSTRAINT VIOLATIONS    0

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|                PARATIE PLUS 2014 NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Sept23, 2015*                |
|                                                                                                                    |
|                NewProject.BaseDesignSection_25.Nominal_60                                                         |
|                Exe Time :29 June 2020      17:50:46                                                                |
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New Project
SOLUTION REACHED USING 4 ITERATIONS ON 40

PRINT OUT FOR TIME STEP 3 (AT TIME 3.000)

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

	Y-DISPL.F (02)	X-ROT. F (04)	(
1	3.6123128E-03	-4.6456759E-04	
2	3.5193992E-03	-4.6456759E-04	
3	3.4264857E-03	-4.6456759E-04	
4	3.3335722E-03	-4.6456759E-04	
5	3.2406587E-03	-4.6456759E-04	
6	3.1477451E-03	-4.6456759E-04	
7	3.0548316E-03	-4.6456759E-04	
8	2.9619180E-03	-4.6456759E-04	
9	2.8690046E-03	-4.6456759E-04	
10	2.7760918E-03	-4.6455608E-04	
11	2.6831859E-03	-4.6448708E-04	
12	2.5903063E-03	-4.6427814E-04	
13	2.4974909E-03	-4.6382587E-04	
14	2.4048001E-03	-4.6301182E-04	
15	2.3123192E-03	-4.6170247E-04	
16	2.2201621E-03	-4.5974925E-04	
17	2.1284734E-03	-4.5698855E-04	
18	2.0374324E-03	-4.5324172E-04	
19	1.9472554E-03	-4.4831505E-04	
20	1.8581989E-03	-4.4199983E-04	
21	1.7705629E-03	-4.3407233E-04	
22	1.7273836E-03	-4.2943417E-04	
23	1.6424303E-03	-4.2031150E-04	
24	1.5591835E-03	-4.1232138E-04	
25	1.4774456E-03	-4.0517258E-04	
26	1.3970781E-03	-3.9856932E-04	
27	1.3180016E-03	-3.9221125E-04	
28	1.2401975E-03	-3.8579341E-04	
29	1.1637087E-03	-3.7900777E-04	
30	1.0886367E-03	-3.7158734E-04	
31	1.0151284E-03	-3.6334818E-04	
32	9.4335862E-04	-3.5419188E-04	
33	8.7351347E-04	-3.4410776E-04	
34	8.0577333E-04	-3.3315637E-04	
35	7.4030249E-04	-3.2143135E-04	
36	6.7724538E-04	-3.0903747E-04	
37	6.1672470E-04	-2.9609025E-04	
38	5.5883810E-04	-2.8271533E-04	
39	5.0365870E-04	-2.6903840E-04	
40	4.5123522E-04	-2.5517434E-04	
41	4.0159452E-04	-2.4122686E-04	
42	3.5474359E-04	-2.2728904E-04	
43	3.1067248E-04	-2.1344411E-04	
44	2.6935485E-04	-1.9976560E-04	
45	2.3075102E-04	-1.8631821E-04	
46	1.9480862E-04	-1.7315803E-04	
47	1.6146543E-04	-1.6033347E-04	
48	1.3065012E-04	-1.4788555E-04	
49	1.0228383E-04	-1.3584842E-04	
50	7.6281636E-05	-1.2424997E-04	
51	5.2553286E-05	-1.1311181E-04	
52	3.1005147E-05	-1.0245012E-04	
53	1.1540696E-05	-9.2276574E-05	
54	-5.9385684E-06	-8.2599316E-05	
55	-2.1532432E-05	-7.3423082E-05	
56	-3.5341288E-05	-6.4749144E-05	
57	-4.7465436E-05	-5.6575397E-05	
58	-5.8004403E-05	-4.8896765E-05	
59	-6.7056575E-05	-4.1705443E-05	
60	-7.4718410E-05	-3.4991569E-05	
61	-8.1084252E-05	-2.8743428E-05	
62	-8.6246014E-05	-2.2947669E-05	
63	-9.0292599E-05	-1.7589892E-05	
64	-9.3310120E-05	-1.2654354E-05	
65	-9.5381389E-05	-8.1245418E-06	
66	-9.6585840E-05	-3.9832719E-06	
67	-9.6999423E-05	-2.1287940E-07	
68	-9.6694518E-05	3.2046169E-06	
69	-9.5739893E-05	6.2873596E-06	
70	-9.4200680E-05	9.0535119E-06	
71	-9.2138505E-05	1.1521014E-05	
72	-8.9611079E-05	1.3707945E-05	
73	-8.6672874E-05	1.5631681E-05	
74	-8.3374813E-05	1.7309310E-05	

75	-7.9764451E-05	1.8757414E-05
76	-7.5886082E-05	1.9992004E-05
77	-7.1780860E-05	2.1028449E-05
78	-6.7486673E-05	2.1885330E-05
79	-6.3037264E-05	2.2584172E-05
80	-5.8462186E-05	2.3145286E-05
81	-5.3787062E-05	2.3587709E-05
82	-4.9033833E-05	2.3929176E-05
83	-4.4221030E-05	2.4186076E-05
84	-3.9364039E-05	2.4373434E-05
85	-3.4475383E-05	2.4504889E-05
86	-2.9564994E-05	2.4592679E-05
87	-2.4640501E-05	2.4647630E-05
88	-1.9707505E-05	2.4679149E-05
89	-1.4769880E-05	2.4695087E-05
90	-9.8300988E-06	2.4701572E-05
91	-4.8895709E-06	2.4703254E-05
92	-2.4189935E-06	2.4703328E-05

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|                PARATIE PLUS 2014 NLS ENGINE RELEASE  2016  FULL VERSION  *Build date: Sept23, 2015*                |
|                                                                                                                                            |
|                NewProject.BaseDesignSection_25.Nominal_60                                                                              |
|                Exe Time :29 June 2020    17:50:46                                                                                          |
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New Project

STRESS RESULTS FOR GROUP NO. 1

0_L :
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 92
CURRENT TIME IS 3.0000

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 LAYER	MAX-H-P	STATE	STIFFNESS	Z-LEVEL	PORE	E FAC-
1	0.000	--	--	--	--	--	REMOVED	--	2.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
2	0.000	--	--	--	--	--	REMOVED	--	1.800	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
3	0.000	--	--	--	--	--	REMOVED	--	1.600	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
4	0.000	--	--	--	--	--	REMOVED	--	1.400	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
5	0.000	--	--	--	--	--	REMOVED	--	1.200	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
6	0.000	--	--	--	--	--	REMOVED	--	1.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
7	0.000	--	--	--	--	--	REMOVED	--	0.8000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
8	0.000	--	--	--	--	--	REMOVED	--	0.6000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
9 D	0.7405	-2.8690E-03	2.001	3.703	2.001	3.703	PASSIVE	0.000	0.4000	0.000	
1.000	1.000	3.703	0.000	0.000	FRANA_334_8_L_0						
10 D	2.221	-2.7761E-03	6.002	11.10	6.002	11.10	PASSIVE	0.000	0.2000	0.000	
1.000	1.000	11.10	0.000	0.000	FRANA_334_8_L_0						
11 D	3.086	-2.6832E-03	10.00	15.43	10.00	15.43	V-C	4000.	-1.4901E-07	0.000	
1.000	1.000	15.43	0.000	0.000	FRANA_334_8_L_0						
12 D	3.571	-2.5903E-03	14.00	17.85	14.00	17.85	V-C	4000.	-0.2000	0.000	
1.000	1.000	17.85	0.000	0.000	FRANA_334_8_L_0						
13 D	4.055	-2.4975E-03	18.00	20.28	18.00	20.28	V-C	4000.	-0.4000	0.000	
1.000	1.000	20.28	0.000	0.000	FRANA_334_8_L_0						
14 D	4.540	-2.4048E-03	22.01	22.70	22.01	22.70	V-C	4000.	-0.6000	0.000	
1.000	1.000	22.70	0.000	0.000	FRANA_334_8_L_0						
15 D	5.024	-2.3123E-03	26.01	25.12	26.01	25.12	V-C	4000.	-0.8000	0.000	
1.000	1.000	25.12	0.000	0.000	FRANA_334_8_L_0						
16 D	5.509	-2.2202E-03	30.01	27.54	30.01	27.54	V-C	4000.	-1.000	0.000	
1.000	1.000	27.54	0.000	0.000	FRANA_334_8_L_0						
17 D	5.993	-2.1285E-03	34.01	29.96	34.01	29.96	V-C	4000.	-1.200	0.000	
1.000	1.000	29.96	0.000	0.000	FRANA_334_8_L_0						
18 D	6.477	-2.0374E-03	38.01	32.38	38.01	32.38	V-C	4000.	-1.400	0.000	
1.000	1.000	32.38	0.000	0.000	FRANA_334_8_L_0						
19 D	6.960	-1.9473E-03	42.02	34.80	42.02	34.80	V-C	4000.	-1.600	0.000	
1.000	1.000	34.80	0.000	0.000	FRANA_334_8_L_0						
20 D	7.443	-1.8582E-03	46.02	37.21	46.02	37.21	V-C	4000.	-1.800	0.000	
1.000	1.000	37.21	0.000	0.000	FRANA_334_8_L_0						
21 D	6.810	-1.7706E-03	50.02	45.40	50.02	45.40	V-C	1.6288E+04	-2.000	0.000	
1.000	1.000	45.40	0.000	0.000	BNA3(2)_335_337_L_0						
22 D	6.866	-1.7274E-03	52.02	45.77	52.02	45.77	V-C	1.6288E+04	-2.100	0.000	
1.000	1.000	45.77	0.000	0.000	BNA3(2)_335_337_L_0						
23 D	9.302	-1.6424E-03	56.03	46.51	56.03	46.51	V-C	1.6288E+04	-2.300	0.000	
1.000	1.000	46.51	0.000	0.000	BNA3(2)_335_337_L_0						
24 D	9.447	-1.5592E-03	60.03	47.24	60.03	47.24	V-C	1.6288E+04	-2.500	0.000	
1.000	1.000	47.24	0.000	0.000	BNA3(2)_335_337_L_0						
25 D	9.593	-1.4774E-03	64.03	47.97	64.03	47.97	V-C	1.6288E+04	-2.700	0.000	
1.000	1.000	47.97	0.000	0.000	BNA3(2)_335_337_L_0						
26 D	9.741	-1.3971E-03	68.04	48.71	68.04	48.71	V-C	1.6288E+04	-2.900	0.000	
1.000	1.000	48.71	0.000	0.000	BNA3(2)_335_337_L_0						
27 D	9.892	-1.3180E-03	72.04	49.46	72.04	49.46	V-C	1.6288E+04	-3.100	0.000	
1.000	1.000	49.46	0.000	0.000	BNA3(2)_335_337_L_0						
28 D	10.05	-1.2402E-03	76.05	50.24	76.05	50.24	V-C	1.6288E+04	-3.300	0.000	
1.000	1.000	50.24	0.000	0.000	BNA3(2)_335_337_L_0						
29 D	10.21	-1.1637E-03	80.05	51.04	80.05	51.04	V-C	1.6288E+04	-3.500	0.000	
1.000	1.000	51.04	0.000	0.000	BNA3(2)_335_337_L_0						
30 D	10.38	-1.0886E-03	84.06	51.88	84.06	51.88	V-C	1.6288E+04	-3.700	0.000	
1.000	1.000	51.88	0.000	0.000	BNA3(2)_335_337_L_0						
31 D	10.37	-1.0151E-03	88.07	51.84	88.07	54.27	UL-RL	2.6061E+04	-3.900	0.000	
1.000	1.000	51.84	0.000	0.000	BNA3(2)_335_337_L_0						
32 D	10.37	-9.4336E-04	92.07	51.85	92.07	56.70	UL-RL	2.6061E+04	-4.100	0.000	
1.000	1.000	51.85	0.000	0.000	BNA3(2)_335_337_L_0						
33 D	10.39	-8.7351E-04	96.08	51.93	96.08	59.12	UL-RL	2.6061E+04	-4.300	0.000	
1.000	1.000	51.93	0.000	0.000	BNA3(2)_335_337_L_0						

34	D	10.42	-8.0577E-04	100.1	52.08	100.1	61.54	UL-RL	2.6061E+04	-4.500	0.000
1.000		1.000	52.08	0.000	0.000	BNA3(2)_335_337_L_0					
35	D	10.46	-7.4030E-04	104.1	52.31	104.1	63.95	UL-RL	2.6061E+04	-4.700	0.000
1.000		1.000	52.31	0.000	0.000	BNA3(2)_335_337_L_0					
36	D	10.52	-6.7725E-04	108.1	52.61	108.1	66.37	UL-RL	2.6061E+04	-4.900	0.000
1.000		1.000	52.61	0.000	0.000	BNA3(2)_335_337_L_0					
37	D	10.60	-6.1672E-04	112.1	52.99	112.1	68.79	UL-RL	2.6061E+04	-5.100	0.000
1.000		1.000	52.99	0.000	0.000	BNA3(2)_335_337_L_0					
38	D	11.33	-5.5884E-04	116.1	56.64	116.1	71.21	UL-RL	2.6061E+04	-5.300	0.000
1.000		1.000	56.64	0.000	0.000	BNA3(2)_335_337_L_0					
39	D	12.10	-5.0366E-04	120.1	60.49	120.1	73.62	UL-RL	2.6061E+04	-5.500	0.000
1.000		1.000	60.49	0.000	0.000	BNA3(2)_335_337_L_0					
40	D	12.85	-4.5124E-04	124.1	64.27	124.1	76.03	UL-RL	2.6061E+04	-5.700	0.000
1.000		1.000	64.27	0.000	0.000	BNA3(2)_335_337_L_0					
41	D	13.60	-4.0159E-04	128.2	67.98	128.2	78.45	UL-RL	2.6061E+04	-5.900	0.000
1.000		1.000	67.98	0.000	0.000	BNA3(2)_335_337_L_0					
42	D	14.32	-3.5474E-04	132.2	71.61	132.2	80.86	UL-RL	2.6061E+04	-6.100	0.000
1.000		1.000	71.61	0.000	0.000	BNA3(2)_335_337_L_0					
43	D	15.03	-3.1067E-04	136.2	75.17	136.2	83.27	UL-RL	2.6061E+04	-6.300	0.000
1.000		1.000	75.17	0.000	0.000	BNA3(2)_335_337_L_0					
44	D	15.73	-2.6935E-04	140.2	78.66	140.2	85.68	UL-RL	2.6061E+04	-6.500	0.000
1.000		1.000	78.66	0.000	0.000	BNA3(2)_335_337_L_0					
45	D	16.41	-2.3075E-04	144.2	82.07	144.2	88.09	UL-RL	2.6061E+04	-6.700	0.000
1.000		1.000	82.07	0.000	0.000	BNA3(2)_335_337_L_0					
46	D	17.08	-1.9481E-04	148.2	85.42	148.2	90.50	UL-RL	2.6061E+04	-6.900	0.000
1.000		1.000	85.42	0.000	0.000	BNA3(2)_335_337_L_0					
47	D	17.74	-1.6147E-04	152.2	88.69	152.2	92.90	UL-RL	2.6061E+04	-7.100	0.000
1.000		1.000	88.69	0.000	0.000	BNA3(2)_335_337_L_0					
48	D	18.38	-1.3065E-04	156.2	91.90	156.2	95.31	UL-RL	2.6061E+04	-7.300	0.000
1.000		1.000	91.90	0.000	0.000	BNA3(2)_335_337_L_0					
49	D	19.01	-1.0228E-04	160.3	95.05	160.3	97.71	UL-RL	2.6061E+04	-7.500	0.000
1.000		1.000	95.05	0.000	0.000	BNA3(2)_335_337_L_0					
50	D	19.63	-7.6282E-05	164.3	98.13	164.3	100.1	UL-RL	2.6061E+04	-7.700	0.000
1.000		1.000	98.13	0.000	0.000	BNA3(2)_335_337_L_0					
51	D	20.21	-5.2553E-05	168.3	101.0	168.3	102.7	UL-RL	2.6061E+04	-7.900	0.000
1.000		1.000	101.0	0.000	0.000	BNA3(2)_335_337_L_0					
52	D	20.75	-3.1005E-05	172.3	103.7	172.3	105.5	UL-RL	2.6061E+04	-8.100	0.000
1.000		1.000	103.7	0.000	0.000	BNA3(2)_335_337_L_0					
53	D	21.29	-1.1541E-05	176.3	106.4	176.3	108.3	UL-RL	2.6061E+04	-8.300	0.000
1.000		1.000	106.4	0.000	0.000	BNA3(2)_335_337_L_0					
54	D	21.82	5.9386E-06	180.3	109.1	180.3	111.0	UL-RL	2.6061E+04	-8.500	0.000
1.000		1.000	109.1	0.000	0.000	BNA3(2)_335_337_L_0					
55	D	22.35	2.1532E-05	184.4	111.7	184.4	113.7	UL-RL	2.6061E+04	-8.700	0.000
1.000		1.000	111.7	0.000	0.000	BNA3(2)_335_337_L_0					
56	D	22.87	3.5341E-05	188.4	114.3	188.4	116.3	UL-RL	2.6061E+04	-8.900	0.000
1.000		1.000	114.3	0.000	0.000	BNA3(2)_335_337_L_0					
57	D	23.39	4.7465E-05	192.4	116.9	192.4	118.9	UL-RL	2.6061E+04	-9.100	0.000
1.000		1.000	116.9	0.000	0.000	BNA3(2)_335_337_L_0					
58	D	23.90	5.8004E-05	196.4	119.5	196.4	121.5	UL-RL	2.6061E+04	-9.300	0.000
1.000		1.000	119.5	0.000	0.000	BNA3(2)_335_337_L_0					
59	D	24.40	6.7057E-05	200.4	122.0	200.4	124.1	UL-RL	2.6061E+04	-9.500	0.000
1.000		1.000	122.0	0.000	0.000	BNA3(2)_335_337_L_0					
60	D	24.90	7.4718E-05	204.5	124.5	204.5	126.6	UL-RL	2.6061E+04	-9.700	0.000
1.000		1.000	124.5	0.000	0.000	BNA3(2)_335_337_L_0					
61	D	25.40	8.1084E-05	208.5	127.0	208.5	129.1	UL-RL	2.6061E+04	-9.900	0.000
1.000		1.000	127.0	0.000	0.000	BNA3(2)_335_337_L_0					
62	D	25.89	8.6246E-05	212.5	129.5	212.5	131.6	UL-RL	2.6061E+04	-10.10	0.000
1.000		1.000	129.5	0.000	0.000	BNA3(2)_335_337_L_0					
63	D	26.38	9.0293E-05	216.5	131.9	216.5	134.0	UL-RL	2.6061E+04	-10.30	0.000
1.000		1.000	131.9	0.000	0.000	BNA3(2)_335_337_L_0					
64	D	26.87	9.3310E-05	220.5	134.4	220.5	136.5	UL-RL	2.6061E+04	-10.50	0.000
1.000		1.000	134.4	0.000	0.000	BNA3(2)_335_337_L_0					
65	D	27.36	9.5381E-05	224.6	136.8	224.6	138.9	UL-RL	2.6061E+04	-10.70	0.000
1.000		1.000	136.8	0.000	0.000	BNA3(2)_335_337_L_0					
66	D	27.84	9.6586E-05	228.6	139.2	228.6	141.2	UL-RL	2.6061E+04	-10.90	0.000
1.000		1.000	139.2	0.000	0.000	BNA3(2)_335_337_L_0					
67	D	28.33	9.6999E-05	232.6	141.6	232.6	143.6	UL-RL	2.6061E+04	-11.10	0.000
1.000		1.000	141.6	0.000	0.000	BNA3(2)_335_337_L_0					
68	D	28.81	9.6695E-05	236.6	144.0	236.6	145.9	UL-RL	2.6061E+04	-11.30	0.000
1.000		1.000	144.0	0.000	0.000	BNA3(2)_335_337_L_0					
69	D	29.28	9.5740E-05	240.7	146.4	240.7	148.2	UL-RL	2.6061E+04	-11.50	0.000
1.000		1.000	146.4	0.000	0.000	BNA3(2)_335_337_L_0					
70	D	29.76	9.4201E-05	244.7	148.8	244.7	150.5	UL-RL	2.6061E+04	-11.70	0.000
1.000		1.000	148.8	0.000	0.000	BNA3(2)_335_337_L_0					
71	D	30.24	9.2139E-05	248.7	151.2	248.7	152.8	UL-RL	2.6061E+04	-11.90	0.000
1.000		1.000	151.2	0.000	0.000	BNA3(2)_335_337_L_0					
72	D	30.71	8.9611E-05	252.7	153.6	252.7	155.1	UL-RL	2.6061E+04	-12.10	0.000
1.000		1.000	153.6	0.000	0.000	BNA3(2)_335_337_L_0					
73	D	31.18	8.6673E-05	256.8	155.9	256.8	157.4	UL-RL	2.6061E+04	-12.30	0.000
1.000		1.000	155.9	0.000	0.000	BNA3(2)_335_337_L_0					
74	D	31.66	8.3375E-05	260.8	158.3	260.8	159.6	UL-RL	2.6061E+04	-12.50	0.000
1.000		1.000	158.3	0.000	0.000	BNA3(2)_335_337_L_0					
75	D	32.13	7.9764E-05	264.8	160.6	264.8	161.9	UL-RL	2.6061E+04	-12.70	0.000
1.000		1.000	160.6	0.000	0.000	BNA3(2)_335_337_L_0					
76	D	32.59	7.5886E-05	268.8	163.0	268.8	164.1	UL-RL	2.6061E+04	-12.90	0.000
1.000		1.000	163.0	0.000	0.000	BNA3(2)_335_337_L_0					
77	D	36.88	7.1781E-05	272.9	184.4	272.9	185.8	UL-RL	3.6037E+04	-13.10	0.000
1.000		1.000	184.4	0.000	0.000	BNA3(3)_336_338_L_0					
78	D	37.40	6.7487E-05	276.9	187.0	276.9	188.3	UL-RL	3.6037E+04	-13.30	0.000
1.000		1.000	187.0	0.000	0.000	BNA3(3)_336_338_L_0					
79	D	37.92	6.3037E-05	280.9	189.6	280.9	190.8	UL-RL	3.6037E+04	-13.50	0.000
1.000		1.000	189.6	0.000	0.000	BNA3(3)_336_338_L_0					

80 D	38.44	5.8462E-05	285.0	192.2	285.0	193.2	UL-RL	3.6037E+04	-13.70	0.000
1.000	1.000	192.2	0.000	0.000	BNA3(3)_336_338_L_0					
81 D	38.95	5.3787E-05	289.0	194.8	289.0	195.6	UL-RL	3.6037E+04	-13.90	0.000
1.000	1.000	194.8	0.000	0.000	BNA3(3)_336_338_L_0					
82 D	39.47	4.9034E-05	293.0	197.4	293.0	198.1	UL-RL	3.6037E+04	-14.10	0.000
1.000	1.000	197.4	0.000	0.000	BNA3(3)_336_338_L_0					
83 D	39.99	4.4221E-05	297.1	199.9	297.1	200.5	UL-RL	3.6037E+04	-14.30	0.000
1.000	1.000	199.9	0.000	0.000	BNA3(3)_336_338_L_0					
84 D	40.50	3.9364E-05	301.1	202.5	301.1	203.0	UL-RL	3.6037E+04	-14.50	0.000
1.000	1.000	202.5	0.000	0.000	BNA3(3)_336_338_L_0					
85 D	41.02	3.4475E-05	305.1	205.1	305.1	205.4	UL-RL	3.6037E+04	-14.70	0.000
1.000	1.000	205.1	0.000	0.000	BNA3(3)_336_338_L_0					
86 D	41.61	2.9565E-05	308.2	207.0	308.2	207.2	UL-RL	3.6037E+04	-14.90	0.9999
1.000	1.000	208.0	0.000	0.000	BNA3(3)_336_338_L_0					
87 D	42.26	2.4641E-05	310.2	208.3	310.2	208.3	UL-RL	3.6037E+04	-15.10	3.000
1.000	1.000	211.3	0.000	0.000	BNA3(3)_336_338_L_0					
88 D	42.91	1.9708E-05	312.2	209.5	312.2	209.5	V-C	2.2523E+04	-15.30	5.000
1.000	1.000	214.5	0.000	0.000	BNA3(3)_336_338_L_0					
89 D	43.55	1.4770E-05	314.2	210.8	314.2	210.8	V-C	2.2523E+04	-15.50	7.000
1.000	1.000	217.8	0.000	0.000	BNA3(3)_336_338_L_0					
90 D	44.20	9.8301E-06	316.3	212.0	316.3	212.0	V-C	2.2523E+04	-15.70	9.000
1.000	1.000	221.0	0.000	0.000	BNA3(3)_336_338_L_0					
91 D	33.63	4.8896E-06	318.3	213.2	318.3	213.2	V-C	2.2523E+04	-15.90	11.00
1.000	1.000	224.2	0.000	0.000	BNA3(3)_336_338_L_0					
92 D	11.29	2.4190E-06	319.3	213.8	319.3	213.8	V-C	2.2523E+04	-16.00	12.00
1.000	1.000	225.8	0.000	0.000	BNA3(3)_336_338_L_0					

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|                PARATIE PLUS 2014 NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Sept23, 2015*                |
|                                                                                                                    |
|                NewProject.BaseDesignSection_25.Nominal_60                                                         |
|                Exe Time :29 June 2020 17:50:46                                                                    |
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New Project

STRESS RESULTS FOR GROUP NO. 2

O_R :
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 92
CURRENT TIME IS 3.0000

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 LAYER	MAX-H-P	STATE	STIFFNESS	Z-LEVEL	PORE	E FAC-
1	0.000	--	--	--	--	--	REMOVED	--	2.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
2	0.000	--	--	--	--	--	REMOVED	--	1.800	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
3	0.000	--	--	--	--	--	REMOVED	--	1.600	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
4	0.000	--	--	--	--	--	REMOVED	--	1.400	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
5	0.000	--	--	--	--	--	REMOVED	--	1.200	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
6	0.000	--	--	--	--	--	REMOVED	--	1.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
7	0.000	--	--	--	--	--	REMOVED	--	0.8000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
8	0.000	--	--	--	--	--	REMOVED	--	0.6000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
9	0.000	--	--	--	--	--	REMOVED	--	0.4000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
10	0.000	--	--	--	--	--	REMOVED	--	0.2000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
11	0.000	--	--	--	--	--	REMOVED	--	-1.4901E-07	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
12	0.000	--	--	--	--	--	REMOVED	--	-0.2000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
13	0.000	--	--	--	--	--	REMOVED	--	-0.4000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
14	0.000	--	--	--	--	--	REMOVED	--	-0.6000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
15	0.000	--	--	--	--	--	REMOVED	--	-0.8000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
16	0.000	--	--	--	--	--	REMOVED	--	-1.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
17	0.000	--	--	--	--	--	REMOVED	--	-1.200	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
18	0.000	--	--	--	--	--	REMOVED	--	-1.400	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
19	0.000	--	--	--	--	--	REMOVED	--	-1.600	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
20	0.000	--	--	--	--	--	REMOVED	--	-1.800	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
21	0.000	--	--	--	--	--	REMOVED	--	-2.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
22	0.000	--	--	--	--	--	REMOVED	--	-2.100	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
23	0.000	--	--	--	--	--	REMOVED	--	-2.300	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
24	0.000	--	--	--	--	--	REMOVED	--	-2.500	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
25	0.000	--	--	--	--	--	REMOVED	--	-2.700	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
26	0.000	--	--	--	--	--	REMOVED	--	-2.900	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
27 D	0.000	1.3180E-03	0.000	0.000	72.00	44.58	ACTIVE	0.000	-3.100	0.000	
1.000	1.000	0.000	0.000	0.000	BNA3(2)_335_337_L_0						
28 D	0.1114	1.2402E-03	4.000	0.5572	76.00	47.01	UL-RL	2.1318E+04	-3.300	0.000	
1.000	1.000	0.5572	0.000	0.000	BNA3(2)_335_337_L_0						
29 D	2.956	1.1637E-03	8.000	14.78	80.00	49.43	UL-RL	2.1318E+04	-3.500	0.000	
1.000	1.000	14.78	0.000	0.000	BNA3(2)_335_337_L_0						
30 D	5.792	1.0886E-03	12.00	28.96	84.00	51.85	UL-RL	2.1318E+04	-3.700	0.000	
1.000	1.000	28.96	0.000	0.000	BNA3(2)_335_337_L_0						
31 D	8.619	1.0151E-03	16.00	43.10	88.00	58.13	UL-RL	2.1318E+04	-3.900	0.000	
1.000	1.000	43.10	0.000	0.000	BNA3(2)_335_337_L_0						
32 D	11.44	9.4336E-04	20.00	57.18	92.00	70.88	UL-RL	2.1318E+04	-4.100	0.000	
1.000	1.000	57.18	0.000	0.000	BNA3(2)_335_337_L_0						
33 D	13.22	8.7351E-04	24.00	66.09	96.00	78.52	UL-RL	2.1318E+04	-4.300	0.000	
1.000	1.000	66.09	0.000	0.000	BNA3(2)_335_337_L_0						

34 D	13.61	8.0577E-04	28.00	68.07	100.0	79.28	UL-RL	2.1318E+04	-4.500	0.000
1.000	1.000	68.07	0.000	0.000	BNA3(2)_335_337_L_0					
35 D	14.01	7.4030E-04	32.00	70.05	104.0	80.10	UL-RL	2.1318E+04	-4.700	0.000
1.000	1.000	70.05	0.000	0.000	BNA3(2)_335_337_L_0					
36 D	14.41	6.7725E-04	36.00	72.04	108.0	81.00	UL-RL	2.1318E+04	-4.900	0.000
1.000	1.000	72.04	0.000	0.000	BNA3(2)_335_337_L_0					
37 D	14.81	6.1672E-04	40.00	74.03	112.0	81.96	UL-RL	2.1318E+04	-5.100	0.000
1.000	1.000	74.03	0.000	0.000	BNA3(2)_335_337_L_0					
38 D	15.21	5.5884E-04	44.00	76.04	116.0	83.00	UL-RL	2.1318E+04	-5.300	0.000
1.000	1.000	76.04	0.000	0.000	BNA3(2)_335_337_L_0					
39 D	15.61	5.0366E-04	48.00	78.06	120.0	84.11	UL-RL	2.1318E+04	-5.500	0.000
1.000	1.000	78.06	0.000	0.000	BNA3(2)_335_337_L_0					
40 D	16.02	4.5124E-04	52.00	80.09	124.0	85.30	UL-RL	2.1318E+04	-5.700	0.000
1.000	1.000	80.09	0.000	0.000	BNA3(2)_335_337_L_0					
41 D	16.43	4.0159E-04	56.00	82.14	128.0	86.56	UL-RL	2.1318E+04	-5.900	0.000
1.000	1.000	82.14	0.000	0.000	BNA3(2)_335_337_L_0					
42 D	16.84	3.5474E-04	60.00	84.20	132.0	87.89	UL-RL	2.1318E+04	-6.100	0.000
1.000	1.000	84.20	0.000	0.000	BNA3(2)_335_337_L_0					
43 D	17.25	3.1067E-04	64.00	86.27	136.0	89.30	UL-RL	2.1318E+04	-6.300	0.000
1.000	1.000	86.27	0.000	0.000	BNA3(2)_335_337_L_0					
44 D	17.67	2.6935E-04	68.00	88.36	140.0	90.77	UL-RL	2.1318E+04	-6.500	0.000
1.000	1.000	88.36	0.000	0.000	BNA3(2)_335_337_L_0					
45 D	18.09	2.3075E-04	72.00	90.47	144.0	92.32	UL-RL	2.1318E+04	-6.700	0.000
1.000	1.000	90.47	0.000	0.000	BNA3(2)_335_337_L_0					
46 D	18.52	1.9481E-04	76.00	92.59	148.0	93.93	UL-RL	2.1318E+04	-6.900	0.000
1.000	1.000	92.59	0.000	0.000	BNA3(2)_335_337_L_0					
47 D	18.94	1.6147E-04	80.00	94.72	152.0	95.61	UL-RL	2.1318E+04	-7.100	0.000
1.000	1.000	94.72	0.000	0.000	BNA3(2)_335_337_L_0					
48 D	19.37	1.3065E-04	84.00	96.87	156.0	97.34	UL-RL	2.1318E+04	-7.300	0.000
1.000	1.000	96.87	0.000	0.000	BNA3(2)_335_337_L_0					
49 D	19.81	1.0228E-04	88.00	99.04	160.0	99.14	UL-RL	2.1318E+04	-7.500	0.000
1.000	1.000	99.04	0.000	0.000	BNA3(2)_335_337_L_0					
50 D	20.23	7.6282E-05	92.00	101.1	164.0	101.1	UL-RL	2.1318E+04	-7.700	0.000
1.000	1.000	101.1	0.000	0.000	BNA3(2)_335_337_L_0					
51 D	20.64	5.2553E-05	96.00	103.2	168.0	103.2	V-C	1.3323E+04	-7.900	0.000
1.000	1.000	103.2	0.000	0.000	BNA3(2)_335_337_L_0					
52 D	21.07	3.1005E-05	100.0	105.3	172.0	105.3	V-C	1.3323E+04	-8.100	0.000
1.000	1.000	105.3	0.000	0.000	BNA3(2)_335_337_L_0					
53 D	21.49	1.1541E-05	104.0	107.5	176.0	107.5	V-C	1.3323E+04	-8.300	0.000
1.000	1.000	107.5	0.000	0.000	BNA3(2)_335_337_L_0					
54 D	21.92	-5.9386E-06	108.0	109.6	180.0	109.7	UL-RL	2.1318E+04	-8.500	0.000
1.000	1.000	109.6	0.000	0.000	BNA3(2)_335_337_L_0					
55 D	22.33	-2.1532E-05	112.0	111.7	184.0	112.1	UL-RL	2.1318E+04	-8.700	0.000
1.000	1.000	111.7	0.000	0.000	BNA3(2)_335_337_L_0					
56 D	22.75	-3.5341E-05	116.0	113.8	188.0	114.5	UL-RL	2.1318E+04	-8.900	0.000
1.000	1.000	113.8	0.000	0.000	BNA3(2)_335_337_L_0					
57 D	23.18	-4.7465E-05	120.0	115.9	192.0	116.9	UL-RL	2.1318E+04	-9.100	0.000
1.000	1.000	115.9	0.000	0.000	BNA3(2)_335_337_L_0					
58 D	23.61	-5.8004E-05	124.0	118.1	196.0	119.3	UL-RL	2.1318E+04	-9.300	0.000
1.000	1.000	118.1	0.000	0.000	BNA3(2)_335_337_L_0					
59 D	24.05	-6.7057E-05	128.0	120.3	200.0	121.7	UL-RL	2.1318E+04	-9.500	0.000
1.000	1.000	120.3	0.000	0.000	BNA3(2)_335_337_L_0					
60 D	24.50	-7.4718E-05	132.0	122.5	204.0	124.1	UL-RL	2.1318E+04	-9.700	0.000
1.000	1.000	122.5	0.000	0.000	BNA3(2)_335_337_L_0					
61 D	24.95	-8.1084E-05	136.0	124.7	208.0	126.5	UL-RL	2.1318E+04	-9.900	0.000
1.000	1.000	124.7	0.000	0.000	BNA3(2)_335_337_L_0					
62 D	25.40	-8.6246E-05	140.0	127.0	212.0	128.9	UL-RL	2.1318E+04	-10.10	0.000
1.000	1.000	127.0	0.000	0.000	BNA3(2)_335_337_L_0					
63 D	25.86	-9.0293E-05	144.0	129.3	216.0	131.2	UL-RL	2.1318E+04	-10.30	0.000
1.000	1.000	129.3	0.000	0.000	BNA3(2)_335_337_L_0					
64 D	26.33	-9.3310E-05	148.0	131.6	220.0	133.6	UL-RL	2.1318E+04	-10.50	0.000
1.000	1.000	131.6	0.000	0.000	BNA3(2)_335_337_L_0					
65 D	26.80	-9.5381E-05	152.0	134.0	224.0	136.0	UL-RL	2.1318E+04	-10.70	0.000
1.000	1.000	134.0	0.000	0.000	BNA3(2)_335_337_L_0					
66 D	27.27	-9.6586E-05	156.0	136.3	228.0	138.4	UL-RL	2.1318E+04	-10.90	0.000
1.000	1.000	136.3	0.000	0.000	BNA3(2)_335_337_L_0					
67 D	27.74	-9.6999E-05	160.0	138.7	232.0	140.8	UL-RL	2.1318E+04	-11.10	0.000
1.000	1.000	138.7	0.000	0.000	BNA3(2)_335_337_L_0					
68 D	28.22	-9.6695E-05	164.0	141.1	236.0	143.2	UL-RL	2.1318E+04	-11.30	0.000
1.000	1.000	141.1	0.000	0.000	BNA3(2)_335_337_L_0					
69 D	28.70	-9.5740E-05	168.0	143.5	240.0	145.5	UL-RL	2.1318E+04	-11.50	0.000
1.000	1.000	143.5	0.000	0.000	BNA3(2)_335_337_L_0					
70 D	29.18	-9.4201E-05	172.0	145.9	244.0	147.9	UL-RL	2.1318E+04	-11.70	0.000
1.000	1.000	145.9	0.000	0.000	BNA3(2)_335_337_L_0					
71 D	29.67	-9.2139E-05	176.0	148.3	248.0	150.3	UL-RL	2.1318E+04	-11.90	0.000
1.000	1.000	148.3	0.000	0.000	BNA3(2)_335_337_L_0					
72 D	30.15	-8.9611E-05	180.0	150.8	252.0	152.7	UL-RL	2.1318E+04	-12.10	0.000
1.000	1.000	150.8	0.000	0.000	BNA3(2)_335_337_L_0					
73 D	30.64	-8.6673E-05	184.0	153.2	256.0	155.1	UL-RL	2.1318E+04	-12.30	0.000
1.000	1.000	153.2	0.000	0.000	BNA3(2)_335_337_L_0					
74 D	31.13	-8.3375E-05	188.0	155.7	260.0	157.4	UL-RL	2.1318E+04	-12.50	0.000
1.000	1.000	155.7	0.000	0.000	BNA3(2)_335_337_L_0					
75 D	31.62	-7.9764E-05	192.0	158.1	264.0	159.8	UL-RL	2.1318E+04	-12.70	0.000
1.000	1.000	158.1	0.000	0.000	BNA3(2)_335_337_L_0					
76 D	32.11	-7.5886E-05	196.0	160.6	268.0	162.2	UL-RL	2.1318E+04	-12.90	0.000
1.000	1.000	160.6	0.000	0.000	BNA3(2)_335_337_L_0					
77 D	36.16	-7.1781E-05	200.0	180.8	272.0	183.3	UL-RL	3.4686E+04	-13.10	0.000
1.000	1.000	180.8	0.000	0.000	BNA3(3)_336_338_L_0					
78 D	36.72	-6.7487E-05	204.0	183.6	276.0	186.0	UL-RL	3.4686E+04	-13.30	0.000
1.000	1.000	183.6	0.000	0.000	BNA3(3)_336_338_L_0					
79 D	37.28	-6.3037E-05	208.0	186.4	280.0	188.6	UL-RL	3.4686E+04	-13.50	0.000
1.000	1.000	186.4	0.000	0.000	BNA3(3)_336_338_L_0					

80 D	37.84	-5.8462E-05	212.0	189.2	284.0	191.2	UL-RL	3.4686E+04	-13.70	0.000
1.000	1.000	189.2	0.000	0.000	BNA3(3)_336_338_L_0					
81 D	38.40	-5.3787E-05	216.0	192.0	288.0	193.9	UL-RL	3.4686E+04	-13.90	0.000
1.000	1.000	192.0	0.000	0.000	BNA3(3)_336_338_L_0					
82 D	38.96	-4.9034E-05	220.0	194.8	292.0	196.5	UL-RL	3.4686E+04	-14.10	0.000
1.000	1.000	194.8	0.000	0.000	BNA3(3)_336_338_L_0					
83 D	39.53	-4.4221E-05	224.0	197.6	296.0	199.2	UL-RL	3.4686E+04	-14.30	0.000
1.000	1.000	197.6	0.000	0.000	BNA3(3)_336_338_L_0					
84 D	40.09	-3.9364E-05	228.0	200.4	300.0	201.8	UL-RL	3.4686E+04	-14.50	0.000
1.000	1.000	200.4	0.000	0.000	BNA3(3)_336_338_L_0					
85 D	40.65	-3.4475E-05	232.0	203.2	304.0	204.4	UL-RL	3.4686E+04	-14.70	0.000
1.000	1.000	203.2	0.000	0.000	BNA3(3)_336_338_L_0					
86 D	41.28	-2.9565E-05	235.0	205.4	307.0	206.4	UL-RL	3.4686E+04	-14.90	0.9999
1.000	1.000	206.4	0.000	0.000	BNA3(3)_336_338_L_0					
87 D	41.98	-2.4641E-05	237.0	206.9	309.0	207.8	UL-RL	3.4686E+04	-15.10	3.000
1.000	1.000	209.9	0.000	0.000	BNA3(3)_336_338_L_0					
88 D	42.68	-1.9708E-05	239.0	208.4	311.0	209.1	UL-RL	3.4686E+04	-15.30	5.000
1.000	1.000	213.4	0.000	0.000	BNA3(3)_336_338_L_0					
89 D	43.38	-1.4770E-05	241.0	209.9	313.0	210.4	UL-RL	3.4686E+04	-15.50	7.000
1.000	1.000	216.9	0.000	0.000	BNA3(3)_336_338_L_0					
90 D	44.07	-9.8301E-06	243.0	211.3	315.0	211.9	UL-RL	3.4686E+04	-15.70	9.000
1.000	1.000	220.3	0.000	0.000	BNA3(3)_336_338_L_0					
91 D	33.56	-4.8896E-06	245.0	212.7	317.0	213.4	UL-RL	3.4686E+04	-15.90	11.00
1.000	1.000	223.7	0.000	0.000	BNA3(3)_336_338_L_0					
92 D	11.27	-2.4190E-06	246.0	213.4	318.0	214.2	UL-RL	3.4686E+04	-16.00	12.00
1.000	1.000	225.4	0.000	0.000	BNA3(3)_336_338_L_0					

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|                PARATIE PLUS 2014 NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Sept23, 2015*                |
|                                                                                                                    |
|                NewProject.BaseDesignSection_25.Nominal_60                                                         |
|                Exe Time :29 June 2020      17:50:46                                                                |
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New Project

STRESS RESULTS FOR GROUP NO. 3

WallElement_30 :
 ELEMENT TYPE 2 NO.OF ELEMENTS. IN THIS GROUP 91
 CURRENT TIME IS 3.0000

WALL2D ELEMENT

EL	TA	TB	MA	MB
1	1.24260E-10	-1.24260E-10	1.23848E-11	-1.67134E-10
2	-3.63798E-11	3.63798E-11	1.75660E-10	-1.89146E-10
3	-3.67294E-10	3.67294E-10	1.48633E-10	-1.12461E-10
4	5.48425E-10	-5.48425E-10	1.29956E-10	1.26445E-10
5	2.35048E-11	-2.35048E-11	-6.99636E-11	5.17488E-11
6	2.30500E-11	-2.30500E-11	-4.74643E-11	7.42375E-11
7	-2.53209E-10	2.53209E-10	-9.81117E-11	-7.34417E-11
8	-2.98968E-10	2.98968E-10	1.76303E-11	-1.64601E-10
9	0.74051	-0.74051	1.51610E-10	0.14810
10	2.9612	-2.9612	-0.14810	0.74035
11	6.0471	-6.0471	-0.74035	1.9498
12	9.6176	-9.6176	-1.9498	3.8733
13	13.673	-13.673	-3.8733	6.6078
14	18.213	-18.213	-6.6078	10.250
15	23.237	-23.237	-10.250	14.898
16	28.745	-28.745	-14.898	20.647
17	34.738	-34.738	-20.647	27.594
18	41.215	-41.215	-27.594	35.837
19	48.175	-48.175	-35.837	45.472
20	55.618	-55.618	-45.472	56.596
21	62.428	-62.428	-56.596	62.839
22	-41.106	41.106	-62.839	54.618
23	-31.804	31.804	-54.618	48.257
24	-22.357	22.357	-48.257	43.785
25	-12.763	12.763	-43.785	41.233
26	-3.0219	3.0219	-41.233	40.628
27	6.8704	-6.8704	-40.628	42.003
28	16.807	-16.807	-42.003	45.364
29	24.059	-24.059	-45.364	50.176
30	28.646	-28.646	-50.176	55.905
31	30.396	-30.396	-55.905	61.984
32	29.332	-29.332	-61.984	67.851
33	26.500	-26.500	-67.851	73.151
34	23.303	-23.303	-73.151	77.811
35	19.755	-19.755	-77.811	81.762
36	15.870	-15.870	-81.762	84.936
37	11.661	-11.661	-84.936	87.269
38	7.7805	-7.7805	-87.269	88.825
39	4.2669	-4.2669	-88.825	89.678
40	1.1029	-1.1029	-89.678	89.899
41	-1.7290	1.7290	-89.899	89.553
42	-4.2464	4.2464	-89.553	88.704
43	-6.4667	6.4667	-88.704	87.410
44	-8.4076	8.4076	-87.410	85.729
45	-10.086	10.086	-85.729	83.711
46	-11.520	11.520	-83.711	81.407
47	-12.726	12.726	-81.407	78.862
48	-13.719	13.719	-78.862	76.118
49	-14.517	14.517	-76.118	73.215
50	-15.118	15.118	-73.215	70.191
51	-15.554	15.554	-70.191	67.080
52	-15.871	15.871	-67.080	63.906
53	-16.078	16.078	-63.906	60.691
54	-16.176	16.176	-60.691	57.455
55	-16.160	16.160	-57.455	54.223
56	-16.041	16.041	-54.223	51.015
57	-15.830	15.830	-51.015	47.849
58	-15.543	15.543	-47.849	44.741
59	-15.193	15.193	-44.741	41.702
60	-14.789	14.789	-41.702	38.744
61	-14.339	14.339	-38.744	35.876
62	-13.851	13.851	-35.876	33.106
63	-13.331	13.331	-33.106	30.440
64	-12.788	12.788	-30.440	27.882
65	-12.225	12.225	-27.882	25.437
66	-11.650	11.650	-25.437	23.107
67	-11.068	11.068	-23.107	20.894
68	-10.482	10.482	-20.894	18.797
69	-9.8985	9.8985	-18.797	16.818
70	-9.3200	9.3200	-16.818	14.954

71	-8.7504	8.7504	-14.954	13.204
72	-8.1930	8.1930	-13.204	11.565
73	-7.6505	7.6505	-11.565	10.035
74	-7.1254	7.1254	-10.035	8.6098
75	-6.6199	6.6199	-8.6098	7.2858
76	-6.1359	6.1359	-7.2858	6.0586
77	-5.4238	5.4238	-6.0586	4.9739
78	-4.7501	4.7501	-4.9739	4.0239
79	-4.1164	4.1164	-4.0239	3.2006
80	-3.5243	3.5243	-3.2006	2.4957
81	-2.9749	2.9749	-2.4957	1.9007
82	-2.4691	2.4691	-1.9007	1.4069
83	-2.0077	2.0077	-1.4069	1.0054
84	-1.5911	1.5911	-1.0054	0.68714
85	-1.2199	1.2199	-0.68714	0.44317
86	-0.89418	0.89418	-0.44317	0.26433
87	-0.61427	0.61427	-0.26433	0.14148
88	-0.38878	0.38878	-0.14148	6.37248E-02
89	-0.21978	0.21978	-6.37248E-02	1.97681E-02
90	-8.93772E-02	8.93772E-02	-1.97681E-02	1.89266E-03
91	-1.89248E-02	1.89248E-02	-1.89266E-03	1.41664E-13

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|          PARATIE PLUS 2014 NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Sept23, 2015*          |
|                                                                                                    |
|                               NewProject.BaseDesignSection_25.Nominal_60                            |
|                               Exe Time :29 June 2020      17:50:46                                |
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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 . 4

Tieback_341 :
 ELEMENT TYPE 6 NO.OF ELEMENTS. IN THIS GROUP 1
 C U R R E N T T I M E I S 3.0000

POST-TENSION 2D-BOUNDARY ELEMENT

	EL	FORCE	d0	EDISPL	pl. eps	K	-ve limit	+ve limit	
ANCHOR	1	110.40	-1.34503E-03	-1.34503E-03	0.0000	0.0000	0.0000	0.0000	BORN NOW JUST ACTIVATED

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|                PARATIE PLUS 2014 NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Sept23, 2015*                |
|                                                                                                                    |
|                NewProject.BaseDesignSection_25.Nominal_60                                                        |
|                Exe Time :29 June 2020      17:50:46                                                                |
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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 . 5

Tieback_342 :
ELEMENT TYPE 6 NO.OF ELEMENTS. IN THIS GROUP 1
C U R R E N T T I M E I S 3.0000

POST-TENSION 2D-BOUNDARY ELEMENT

EL	FORCE	d0	EDISPL	pl. eps	K	-ve limit	+ve limit
----	-------	----	--------	---------	---	-----------	-----------

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

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ITER    0   RNORM = 0.000    RMNORM= 0.000
         RINORM=0.1588E+06   RIMNOR=0.4003E+06
         RENORM= 4851.       REMNOR=0.2118E-19   RATIO =0.1748       TOLER =0.1000E-03   NOT CONVERGED
         RFMAX = 110.4       RMMAX = 89.90
         RTSMAL=0.1000E-02   RMSMAL=0.1000E-03
         RDT =0.1588E+06     RDR =0.4003E+06
         RATIO=0.1748       RATIO= 0.000
         MAX UN= 18.94       IEQ= 93 NODE       47 DOF    1   Y-DISPL.F
         MIN UN=-.1498E-08   IEQ= 41 NODE       21 DOF    1   Y-DISPL.F
         NO. OF CONTACT CONSTRAINT VIOLATIONS          0

ITER    2   RNORM = 0.000    RMNORM= 0.000
         RINORM=0.1588E+06   RIMNOR=0.4003E+06
         RENORM= 301.9       REMNOR=0.9571E-18   RATIO =0.4360E-01   TOLER =0.1000E-03   NOT CONVERGED
         RFMAX = 110.4       RMMAX = 89.90
         RTSMAL=0.1000E-02   RMSMAL=0.1000E-03
         RDT =0.1588E+06     RDR =0.4003E+06
         RATIO=0.4360E-01   RATIO= 0.000
         MAX UN= 5.407       IEQ= 73 NODE       37 DOF    1   Y-DISPL.F
         MIN UN=-.4796       IEQ= 173 NODE       87 DOF    1   Y-DISPL.F
         NO. OF CONTACT CONSTRAINT VIOLATIONS          0

ITER    3   RNORM = 0.000    RMNORM= 0.000
         RINORM=0.1588E+06   RIMNOR=0.4003E+06
         RENORM= 97.98       REMNOR=0.1576E-17   RATIO =0.2484E-01   TOLER =0.1000E-03   NOT CONVERGED
         RFMAX = 110.4       RMMAX = 89.90
         RTSMAL=0.1000E-02   RMSMAL=0.1000E-03
         RDT =0.1588E+06     RDR =0.4003E+06
         RATIO=0.2484E-01   RATIO= 0.000
         MAX UN= 4.509       IEQ= 97 NODE       49 DOF    1   Y-DISPL.F
         MIN UN=-.9714E-01   IEQ= 161 NODE       81 DOF    1   Y-DISPL.F
         NO. OF CONTACT CONSTRAINT VIOLATIONS          0

ITER    4   RNORM = 0.000    RMNORM= 0.000
         RINORM=0.1588E+06   RIMNOR=0.4003E+06
         RENORM= 27.36       REMNOR=0.5510E-17   RATIO =0.1313E-01   TOLER =0.1000E-03   NOT CONVERGED
         RFMAX = 110.4       RMMAX = 89.90
         RTSMAL=0.1000E-02   RMSMAL=0.1000E-03
         RDT =0.1588E+06     RDR =0.4003E+06
         RATIO=0.1313E-01   RATIO= 0.000
         MAX UN= 3.744       IEQ= 113 NODE       57 DOF    1   Y-DISPL.F
         MIN UN=-.1781       IEQ= 159 NODE       80 DOF    1   Y-DISPL.F
         NO. OF CONTACT CONSTRAINT VIOLATIONS          0

ITER    5   RNORM = 0.000    RMNORM= 0.000
         RINORM=0.1588E+06   RIMNOR=0.4003E+06
         RENORM=0.1108       REMNOR=0.5565E-17   RATIO =0.8354E-03   TOLER =0.1000E-03   NOT CONVERGED
         RFMAX = 110.4       RMMAX = 89.90
         RTSMAL=0.1000E-02   RMSMAL=0.1000E-03
         RDT =0.1588E+06     RDR =0.4003E+06
         RATIO=0.8354E-03   RATIO= 0.000
         MAX UN=0.3202       IEQ= 115 NODE       58 DOF    1   Y-DISPL.F
         MIN UN=-.3223E-01   IEQ= 159 NODE       80 DOF    1   Y-DISPL.F
         NO. OF CONTACT CONSTRAINT VIOLATIONS          0

ITER    6   RNORM = 0.000    RMNORM= 0.000
         RINORM=0.1588E+06   RIMNOR=0.4003E+06
         RENORM=0.6945E-15   REMNOR=0.2676E-17   RATIO =0.6613E-10   TOLER =0.1000E-03   CONVERGED !
         RFMAX = 110.4       RMMAX = 89.90
         RTSMAL=0.1000E-02   RMSMAL=0.1000E-03
         RDT =0.1588E+06     RDR =0.4003E+06
         RATIO=0.6613E-10   RATIO= 0.000

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MAX UN=0.8640E-08 IEQ= 13 NODE 7 DOF 1 Y-DISPL.F
MIN UN=-.1099E-07 IEQ= 43 NODE 22 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

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|                PARATIE PLUS 2014 NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Sept23, 2015*                |
|                                                                                                                                            |
|                                                                                                                                            |
|                NewProject.BaseDesignSection_25.Nominal_60                                                                              |
|                Exe Time :29 June 2020      17:50:46                                                                              |
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New Project
SOLUTION REACHED USING 6 ITERATIONS ON 40

PRINT OUT FOR TIME STEP 4 (AT TIME 4.000)

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

	Y-DISPL.F (02)	X-ROT. F (04)	(
1	2.1788234E-02	-1.4059828E-03	
2	2.1507037E-02	-1.4059828E-03	
3	2.1225841E-02	-1.4059828E-03	
4	2.0944644E-02	-1.4059828E-03	
5	2.0663448E-02	-1.4059828E-03	
6	2.0382251E-02	-1.4059828E-03	
7	2.0101054E-02	-1.4059828E-03	
8	1.9819858E-02	-1.4059828E-03	
9	1.9538661E-02	-1.4059828E-03	
10	1.9257465E-02	-1.4059790E-03	
11	1.8976271E-02	-1.4059562E-03	
12	1.8695086E-02	-1.4058842E-03	
13	1.8413924E-02	-1.4057173E-03	
14	1.8132809E-02	-1.4053951E-03	
15	1.7851781E-02	-1.4048415E-03	
16	1.7570894E-02	-1.4039657E-03	
17	1.7290224E-02	-1.4026615E-03	
18	1.7009866E-02	-1.4008075E-03	
19	1.6729946E-02	-1.3982673E-03	
20	1.6450615E-02	-1.3948892E-03	
21	1.6172058E-02	-1.3905064E-03	
22	1.6033135E-02	-1.3878951E-03	
23	1.5756011E-02	-1.3838301E-03	
24	1.5479414E-02	-1.3826050E-03	
25	1.5202788E-02	-1.3840882E-03	
26	1.4925607E-02	-1.3881379E-03	
27	1.4647372E-02	-1.3946021E-03	
28	1.4367616E-02	-1.4033189E-03	
29	1.4085906E-02	-1.4141159E-03	
30	1.3801843E-02	-1.4268106E-03	
31	1.3515068E-02	-1.4412105E-03	
32	1.3225259E-02	-1.4571126E-03	
33	1.2932137E-02	-1.4743041E-03	
34	1.2635466E-02	-1.4925616E-03	
35	1.2335057E-02	-1.5116519E-03	
36	1.2030766E-02	-1.5313314E-03	
37	1.1722504E-02	-1.5513462E-03	
38	1.1410225E-02	-1.5714327E-03	
39	1.1093944E-02	-1.5913166E-03	
40	1.0773730E-02	-1.6107136E-03	
41	1.0449711E-02	-1.6293292E-03	
42	1.0122070E-02	-1.6468587E-03	
43	9.7910589E-03	-1.6629873E-03	
44	9.4569897E-03	-1.6773898E-03	
45	9.1202421E-03	-1.6897309E-03	
46	8.7812594E-03	-1.6996653E-03	
47	8.4405601E-03	-1.7068373E-03	
48	8.0987330E-03	-1.7108810E-03	
49	7.7564372E-03	-1.7114821E-03	
50	7.4143863E-03	-1.7084175E-03	
51	7.0733266E-03	-1.7015331E-03	
52	6.7340334E-03	-1.6907440E-03	
53	6.3972904E-03	-1.6760339E-03	
54	6.0638777E-03	-1.6574559E-03	
55	5.7345578E-03	-1.6351318E-03	
56	5.4100620E-03	-1.6092526E-03	
57	5.0910764E-03	-1.5800782E-03	
58	4.7782300E-03	-1.5479377E-03	
59	4.4720742E-03	-1.5132287E-03	
60	4.1730808E-03	-1.4763852E-03	
61	3.8816336E-03	-1.4378385E-03	
62	3.5980265E-03	-1.3980120E-03	
63	3.3224820E-03	-1.3573243E-03	
64	3.0551276E-03	-1.3161737E-03	
65	2.7960188E-03	-1.2749285E-03	
66	2.5451400E-03	-1.2339262E-03	
67	2.3024116E-03	-1.1934747E-03	
68	2.0676949E-03	-1.1538529E-03	
69	1.8407984E-03	-1.1153120E-03	
70	1.6214830E-03	-1.0780764E-03	
71	1.4094780E-03	-1.0423461E-03	
72	1.2044436E-03	-1.0082909E-03	
73	1.0060399E-03	-9.7606146E-04	
74	8.1388887E-04	-9.4578357E-04	

75 6.2758950E-04 -9.1756016E-04
76 4.4672244E-04 -8.9147227E-04
77 2.7085424E-04 -8.6757970E-04
78 9.9541167E-05 -8.4592802E-04
79 -6.7668171E-05 -8.2654440E-04
80 -2.3122752E-04 -8.0942471E-04
81 -3.9158667E-04 -7.9453421E-04
82 -5.4918568E-04 -7.8181080E-04
83 -7.0444956E-04 -7.7116604E-04
84 -8.5778306E-04 -7.6248575E-04
85 -1.0095655E-03 -7.5563059E-04
86 -1.1601460E-03 -7.5043644E-04
87 -1.3098383E-03 -7.4671463E-04
88 -1.4589158E-03 -7.4425215E-04
89 -1.6076073E-03 -7.4281174E-04
90 -1.7560912E-03 -7.4213201E-04
91 -1.9044917E-03 -7.4192718E-04
92 -1.9786912E-03 -7.4191671E-04


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|                PARATIE PLUS 2014 NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Sept23, 2015*                |
|                                                                                                                    |
|                NewProject.BaseDesignSection_25.Nominal_60                                                         |
|                Exe Time :29 June 2020      17:50:46                                                                |
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New Project

STRESS RESULTS FOR GROUP NO. 1

0_L :
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 92
CURRENT TIME IS 4.0000

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 LAYER	MAX-H-P	STATE	STIFFNESS	Z-LEVEL	PORE	E FAC-
1	0.000	--	--	--	--	--	REMOVED	--	2.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
2	0.000	--	--	--	--	--	REMOVED	--	1.800	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
3	0.000	--	--	--	--	--	REMOVED	--	1.600	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
4	0.000	--	--	--	--	--	REMOVED	--	1.400	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
5	0.000	--	--	--	--	--	REMOVED	--	1.200	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
6	0.000	--	--	--	--	--	REMOVED	--	1.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
7	0.000	--	--	--	--	--	REMOVED	--	0.8000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
8	0.000	--	--	--	--	--	REMOVED	--	0.6000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
9 D	0.2442	-1.9539E-02	2.001	1.221	2.001	3.703	ACTIVE	0.000	0.4000	0.000	
1.000	1.000	1.221	0.000	0.000	FRANA_334_8_L_0						
10 D	0.7322	-1.9257E-02	6.002	3.661	6.002	11.10	ACTIVE	0.000	0.2000	0.000	
1.000	1.000	3.661	0.000	0.000	FRANA_334_8_L_0						
11 D	1.220	-1.8976E-02	10.00	6.102	10.00	15.43	ACTIVE	0.000	-1.4901E-07	0.000	
1.000	1.000	6.102	0.000	0.000	FRANA_334_8_L_0						
12 D	1.708	-1.8695E-02	14.00	8.542	14.00	17.85	ACTIVE	0.000	-0.2000	0.000	
1.000	1.000	8.542	0.000	0.000	FRANA_334_8_L_0						
13 D	2.197	-1.8414E-02	18.00	10.98	18.00	20.28	ACTIVE	0.000	-0.4000	0.000	
1.000	1.000	10.98	0.000	0.000	FRANA_334_8_L_0						
14 D	2.685	-1.8133E-02	22.01	13.42	22.01	22.70	ACTIVE	0.000	-0.6000	0.000	
1.000	1.000	13.42	0.000	0.000	FRANA_334_8_L_0						
15 D	3.173	-1.7852E-02	26.01	15.86	26.01	25.12	ACTIVE	0.000	-0.8000	0.000	
1.000	1.000	15.86	0.000	0.000	FRANA_334_8_L_0						
16 D	3.661	-1.7571E-02	30.01	18.31	30.01	27.54	ACTIVE	0.000	-1.000	0.000	
1.000	1.000	18.31	0.000	0.000	FRANA_334_8_L_0						
17 D	4.149	-1.7290E-02	34.01	20.75	34.01	29.96	ACTIVE	0.000	-1.200	0.000	
1.000	1.000	20.75	0.000	0.000	FRANA_334_8_L_0						
18 D	4.638	-1.7010E-02	38.01	23.19	38.01	32.38	ACTIVE	0.000	-1.400	0.000	
1.000	1.000	23.19	0.000	0.000	FRANA_334_8_L_0						
19 D	5.126	-1.6730E-02	42.02	25.63	42.02	34.80	ACTIVE	0.000	-1.600	0.000	
1.000	1.000	25.63	0.000	0.000	FRANA_334_8_L_0						
20 D	5.614	-1.6451E-02	46.02	28.07	46.02	37.21	ACTIVE	0.000	-1.800	0.000	
1.000	1.000	28.07	0.000	0.000	FRANA_334_8_L_0						
21 D	2.685	-1.6172E-02	50.02	17.90	50.02	45.40	ACTIVE	0.000	-2.000	0.000	
1.000	1.000	17.90	0.000	0.000	BNA3(2)_335_337_L_0						
22 D	2.808	-1.6033E-02	52.02	18.72	52.02	45.77	ACTIVE	0.000	-2.100	0.000	
1.000	1.000	18.72	0.000	0.000	BNA3(2)_335_337_L_0						
23 D	4.071	-1.5756E-02	56.03	20.36	56.03	46.51	ACTIVE	0.000	-2.300	0.000	
1.000	1.000	20.36	0.000	0.000	BNA3(2)_335_337_L_0						
24 D	4.399	-1.5479E-02	60.03	21.99	60.03	47.24	ACTIVE	0.000	-2.500	0.000	
1.000	1.000	21.99	0.000	0.000	BNA3(2)_335_337_L_0						
25 D	4.726	-1.5203E-02	64.03	23.63	64.03	47.97	ACTIVE	0.000	-2.700	0.000	
1.000	1.000	23.63	0.000	0.000	BNA3(2)_335_337_L_0						
26 D	5.054	-1.4926E-02	68.04	25.27	68.04	48.71	ACTIVE	0.000	-2.900	0.000	
1.000	1.000	25.27	0.000	0.000	BNA3(2)_335_337_L_0						
27 D	5.382	-1.4647E-02	72.04	26.91	72.04	49.46	ACTIVE	0.000	-3.100	0.000	
1.000	1.000	26.91	0.000	0.000	BNA3(2)_335_337_L_0						
28 D	5.709	-1.4368E-02	76.05	28.55	76.05	50.24	ACTIVE	0.000	-3.300	0.000	
1.000	1.000	28.55	0.000	0.000	BNA3(2)_335_337_L_0						
29 D	6.037	-1.4086E-02	80.05	30.18	80.05	51.04	ACTIVE	0.000	-3.500	0.000	
1.000	1.000	30.18	0.000	0.000	BNA3(2)_335_337_L_0						
30 D	6.364	-1.3802E-02	84.06	31.82	84.06	51.88	ACTIVE	0.000	-3.700	0.000	
1.000	1.000	31.82	0.000	0.000	BNA3(2)_335_337_L_0						
31 D	6.692	-1.3515E-02	88.07	33.46	88.07	52.71	ACTIVE	0.000	-3.900	0.000	
1.000	1.000	33.46	0.000	0.000	BNA3(2)_335_337_L_0						
32 D	7.020	-1.3225E-02	92.07	35.10	92.07	53.54	ACTIVE	0.000	-4.100	0.000	
1.000	1.000	35.10	0.000	0.000	BNA3(2)_335_337_L_0						
33 D	7.348	-1.2932E-02	96.08	36.74	96.08	54.37	ACTIVE	0.000	-4.300	0.000	
1.000	1.000	36.74	0.000	0.000	BNA3(2)_335_337_L_0						

34	D	7.676	-1.2635E-02	100.1	38.38	100.1	61.54	ACTIVE	0.000	-4.500	0.000
1.000		1.000									
35	D	8.003	-1.2335E-02	104.1	40.02	104.1	63.95	ACTIVE	0.000	-4.700	0.000
1.000		1.000									
36	D	8.331	-1.2031E-02	108.1	41.66	108.1	66.37	ACTIVE	0.000	-4.900	0.000
1.000		1.000									
37	D	8.659	-1.1723E-02	112.1	43.30	112.1	68.79	ACTIVE	0.000	-5.100	0.000
1.000		1.000									
38	D	8.987	-1.1410E-02	116.1	44.94	116.1	71.21	ACTIVE	0.000	-5.300	0.000
1.000		1.000									
39	D	9.315	-1.1094E-02	120.1	46.58	120.1	73.62	ACTIVE	0.000	-5.500	0.000
1.000		1.000									
40	D	9.643	-1.0774E-02	124.1	48.22	124.1	76.03	ACTIVE	0.000	-5.700	0.000
1.000		1.000									
41	D	9.971	-1.0450E-02	128.2	49.86	128.2	78.45	ACTIVE	0.000	-5.900	0.000
1.000		1.000									
42	D	10.30	-1.0122E-02	132.2	51.50	132.2	80.86	ACTIVE	0.000	-6.100	0.000
1.000		1.000									
43	D	10.63	-9.7911E-03	136.2	53.14	136.2	83.27	ACTIVE	0.000	-6.300	0.000
1.000		1.000									
44	D	10.96	-9.4570E-03	140.2	54.78	140.2	85.68	ACTIVE	0.000	-6.500	0.000
1.000		1.000									
45	D	11.28	-9.1202E-03	144.2	56.42	144.2	88.09	ACTIVE	0.000	-6.700	0.000
1.000		1.000									
46	D	11.61	-8.7813E-03	148.2	58.06	148.2	90.50	ACTIVE	0.000	-6.900	0.000
1.000		1.000									
47	D	11.94	-8.4406E-03	152.2	59.70	152.2	92.90	ACTIVE	0.000	-7.100	0.000
1.000		1.000									
48	D	12.27	-8.0987E-03	156.2	61.35	156.2	95.31	ACTIVE	0.000	-7.300	0.000
1.000		1.000									
49	D	12.60	-7.7564E-03	160.3	62.99	160.3	97.71	ACTIVE	0.000	-7.500	0.000
1.000		1.000									
50	D	12.93	-7.4144E-03	164.3	64.63	164.3	100.1	ACTIVE	0.000	-7.700	0.000
1.000		1.000									
51	D	13.25	-7.0733E-03	168.3	66.27	168.3	102.7	ACTIVE	0.000	-7.900	0.000
1.000		1.000									
52	D	13.58	-6.7340E-03	172.3	67.91	172.3	105.5	ACTIVE	0.000	-8.100	0.000
1.000		1.000									
53	D	13.91	-6.3973E-03	176.3	69.56	176.3	108.3	ACTIVE	0.000	-8.300	0.000
1.000		1.000									
54	D	14.24	-6.0639E-03	180.3	71.20	180.3	111.0	ACTIVE	0.000	-8.500	0.000
1.000		1.000									
55	D	14.57	-5.7346E-03	184.4	72.84	184.4	113.7	ACTIVE	0.000	-8.700	0.000
1.000		1.000									
56	D	14.90	-5.4101E-03	188.4	74.49	188.4	116.3	ACTIVE	0.000	-8.900	0.000
1.000		1.000									
57	D	15.23	-5.0911E-03	192.4	76.13	192.4	118.9	ACTIVE	0.000	-9.100	0.000
1.000		1.000									
58	D	15.56	-4.7782E-03	196.4	77.78	196.4	121.5	ACTIVE	0.000	-9.300	0.000
1.000		1.000									
59	D	15.88	-4.4721E-03	200.4	79.42	200.4	124.1	ACTIVE	0.000	-9.500	0.000
1.000		1.000									
60	D	16.21	-4.1731E-03	204.5	81.06	204.5	126.6	ACTIVE	0.000	-9.700	0.000
1.000		1.000									
61	D	16.54	-3.8816E-03	208.5	82.71	208.5	129.1	ACTIVE	0.000	-9.900	0.000
1.000		1.000									
62	D	16.87	-3.5980E-03	212.5	84.35	212.5	131.6	ACTIVE	0.000	-10.10	0.000
1.000		1.000									
63	D	17.96	-3.3225E-03	216.5	89.79	216.5	134.0	UL-RL	1.2345E+04	-10.30	0.000
1.000		1.000									
64	D	19.10	-3.0551E-03	220.5	95.50	220.5	136.5	UL-RL	1.2345E+04	-10.50	0.000
1.000		1.000									
65	D	20.22	-2.7960E-03	224.6	101.1	224.6	138.9	UL-RL	1.2345E+04	-10.70	0.000
1.000		1.000									
66	D	21.32	-2.5451E-03	228.6	106.6	228.6	141.2	UL-RL	1.2345E+04	-10.90	0.000
1.000		1.000									
67	D	22.40	-2.3024E-03	232.6	112.0	232.6	143.6	UL-RL	1.2345E+04	-11.10	0.000
1.000		1.000									
68	D	23.46	-2.0677E-03	236.6	117.3	236.6	145.9	UL-RL	1.2345E+04	-11.30	0.000
1.000		1.000									
69	D	24.50	-1.8408E-03	240.7	122.5	240.7	148.2	UL-RL	1.2345E+04	-11.50	0.000
1.000		1.000									
70	D	25.53	-1.6215E-03	244.7	127.6	244.7	150.5	UL-RL	1.2345E+04	-11.70	0.000
1.000		1.000									
71	D	26.53	-1.4095E-03	248.7	132.6	248.7	152.8	UL-RL	1.2345E+04	-11.90	0.000
1.000		1.000									
72	D	27.52	-1.2044E-03	252.7	137.6	252.7	155.1	UL-RL	1.2345E+04	-12.10	0.000
1.000		1.000									
73	D	28.49	-1.0060E-03	256.8	142.4	256.8	157.4	UL-RL	1.2345E+04	-12.30	0.000
1.000		1.000									
74	D	29.44	-8.1389E-04	260.8	147.2	260.8	159.6	UL-RL	1.2345E+04	-12.50	0.000
1.000		1.000									
75	D	30.38	-6.2759E-04	264.8	151.9	264.8	161.9	UL-RL	1.2345E+04	-12.70	0.000
1.000		1.000									
76	D	31.30	-4.4672E-04	268.8	156.5	268.8	164.1	UL-RL	1.2345E+04	-12.90	0.000
1.000		1.000									
77	D	35.71	-2.7085E-04	272.9	178.5	272.9	185.8	UL-RL	1.7070E+04	-13.10	0.000
1.000		1.000									
78	D	36.83	-9.9541E-05	276.9	184.1	276.9	188.3	UL-RL	1.7070E+04	-13.30	0.000
1.000		1.000									
79	D	37.93	6.7668E-05	280.9	189.7	280.9	190.8	UL-RL	1.7070E+04	-13.50	0.000
1.000		1.000									

80 D	38.85	2.3123E-04	285.0	194.2	285.0	194.7	UL-RL	1.7070E+04	-13.70	0.000
1.000	1.000	194.2	0.000	0.000	BNA3(3)_336_338_L_0					
81 D	39.72	3.9159E-04	289.0	198.6	289.0	198.9	UL-RL	1.7070E+04	-13.90	0.000
1.000	1.000	198.6	0.000	0.000	BNA3(3)_336_338_L_0					
82 D	40.59	5.4919E-04	293.0	202.9	293.0	203.0	UL-RL	1.7070E+04	-14.10	0.000
1.000	1.000	202.9	0.000	0.000	BNA3(3)_336_338_L_0					
83 D	41.44	7.0445E-04	297.1	207.2	297.1	207.2	V-C	1.0669E+04	-14.30	0.000
1.000	1.000	207.2	0.000	0.000	BNA3(3)_336_338_L_0					
84 D	42.28	8.5778E-04	301.1	211.4	301.1	211.4	V-C	1.0669E+04	-14.50	0.000
1.000	1.000	211.4	0.000	0.000	BNA3(3)_336_338_L_0					
85 D	43.12	1.0096E-03	305.1	215.6	305.1	215.6	V-C	1.0669E+04	-14.70	0.000
1.000	1.000	215.6	0.000	0.000	BNA3(3)_336_338_L_0					
86 D	44.03	1.1601E-03	308.2	219.2	308.2	219.2	V-C	1.0669E+04	-14.90	0.9999
1.000	1.000	220.2	0.000	0.000	BNA3(3)_336_338_L_0					
87 D	45.01	1.3098E-03	310.2	222.0	310.2	222.0	V-C	1.0669E+04	-15.10	3.000
1.000	1.000	225.0	0.000	0.000	BNA3(3)_336_338_L_0					
88 D	45.98	1.4589E-03	312.2	224.9	312.2	224.9	V-C	1.0669E+04	-15.30	5.000
1.000	1.000	229.9	0.000	0.000	BNA3(3)_336_338_L_0					
89 D	46.95	1.6076E-03	314.2	227.8	314.2	227.8	V-C	1.0669E+04	-15.50	7.000
1.000	1.000	234.8	0.000	0.000	BNA3(3)_336_338_L_0					
90 D	47.92	1.7561E-03	316.3	230.6	316.3	230.6	V-C	1.0669E+04	-15.70	9.000
1.000	1.000	239.6	0.000	0.000	BNA3(3)_336_338_L_0					
91 D	36.67	1.9045E-03	318.3	233.5	318.3	233.5	V-C	1.0669E+04	-15.90	11.00
1.000	1.000	244.5	0.000	0.000	BNA3(3)_336_338_L_0					
92 D	12.34	1.9787E-03	319.3	234.9	319.3	234.9	V-C	1.0669E+04	-16.00	12.00
1.000	1.000	246.9	0.000	0.000	BNA3(3)_336_338_L_0					

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|                PARATIE PLUS 2014 NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Sept23, 2015*                |
|                                                                                                                    |
|                NewProject.BaseDesignSection_25.Nominal_60                                                         |
|                Exe Time :29 June 2020      17:50:46                                                                |
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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 92
CURRENT TIME IS 4.0000

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 LAYER	MAX-H-P	STATE	STIFFNESS	Z-LEVEL	PORE	E FAC-
1	0.000	--	--	--	--	--	REMOVED	--	2.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
2	0.000	--	--	--	--	--	REMOVED	--	1.800	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
3	0.000	--	--	--	--	--	REMOVED	--	1.600	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
4	0.000	--	--	--	--	--	REMOVED	--	1.400	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
5	0.000	--	--	--	--	--	REMOVED	--	1.200	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
6	0.000	--	--	--	--	--	REMOVED	--	1.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
7	0.000	--	--	--	--	--	REMOVED	--	0.8000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
8	0.000	--	--	--	--	--	REMOVED	--	0.6000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
9	0.000	--	--	--	--	--	REMOVED	--	0.4000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
10	0.000	--	--	--	--	--	REMOVED	--	0.2000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
11	0.000	--	--	--	--	--	REMOVED	--	-1.4901E-07	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
12	0.000	--	--	--	--	--	REMOVED	--	-0.2000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
13	0.000	--	--	--	--	--	REMOVED	--	-0.4000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
14	0.000	--	--	--	--	--	REMOVED	--	-0.6000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
15	0.000	--	--	--	--	--	REMOVED	--	-0.8000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
16	0.000	--	--	--	--	--	REMOVED	--	-1.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
17	0.000	--	--	--	--	--	REMOVED	--	-1.200	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
18	0.000	--	--	--	--	--	REMOVED	--	-1.400	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
19	0.000	--	--	--	--	--	REMOVED	--	-1.600	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
20	0.000	--	--	--	--	--	REMOVED	--	-1.800	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
21	0.000	--	--	--	--	--	REMOVED	--	-2.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
22	0.000	--	--	--	--	--	REMOVED	--	-2.100	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
23	0.000	--	--	--	--	--	REMOVED	--	-2.300	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
24	0.000	--	--	--	--	--	REMOVED	--	-2.500	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
25	0.000	--	--	--	--	--	REMOVED	--	-2.700	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
26	0.000	--	--	--	--	--	REMOVED	--	-2.900	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
27	0.000	--	--	--	--	--	REMOVED	--	-3.100	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
28	0.000	--	--	--	--	--	REMOVED	--	-3.300	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
29	0.000	--	--	--	--	--	REMOVED	--	-3.500	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
30	0.000	--	--	--	--	--	REMOVED	--	-3.700	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
31	0.000	--	--	--	--	--	REMOVED	--	-3.900	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
32	0.000	--	--	--	--	--	REMOVED	--	-4.100	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
33	0.000	--	--	--	--	--	REMOVED	--	-4.300	0.000	
1.000	1.000	0.000	0.000	0.000	not available						

34	0.000	--	--	--	--	--	REMOVED	--	-4.500	0.000
1.000	1.000	0.000	0.000	0.000	0.000	not available	REMOVED	--	-4.700	0.000
35	0.000	--	--	--	--	--	REMOVED	--	-4.700	0.000
1.000	1.000	0.000	0.000	0.000	0.000	not available	REMOVED	--	-4.900	0.000
36	0.000	--	--	--	--	--	REMOVED	--	-4.900	0.000
1.000	1.000	0.000	0.000	0.000	0.000	not available	REMOVED	--	-5.100	0.000
37	0.000	--	--	--	--	--	REMOVED	--	-5.100	0.000
1.000	1.000	0.000	0.000	0.000	0.000	not available	REMOVED	--	-5.300	0.000
38	0.000	--	--	--	--	--	REMOVED	--	-5.300	0.000
1.000	1.000	0.000	0.000	0.000	0.000	not available	REMOVED	--	-5.500	0.000
39	0.000	--	--	--	--	--	REMOVED	--	-5.500	0.000
1.000	1.000	0.000	0.000	0.000	0.000	not available	REMOVED	--	-5.700	0.000
40	0.000	--	--	--	--	--	REMOVED	--	-5.700	0.000
1.000	1.000	0.000	0.000	0.000	0.000	not available	REMOVED	--	-5.900	0.000
41	0.000	--	--	--	--	--	REMOVED	--	-5.900	0.000
1.000	1.000	0.000	0.000	0.000	0.000	not available	REMOVED	--	-6.100	0.000
42	0.000	--	--	--	--	--	REMOVED	--	-6.100	0.000
1.000	1.000	0.000	0.000	0.000	0.000	not available	REMOVED	--	-6.300	0.000
43	0.000	--	--	--	--	--	REMOVED	--	-6.300	0.000
1.000	1.000	0.000	0.000	0.000	0.000	not available	REMOVED	--	-6.500	0.000
44	0.000	--	--	--	--	--	REMOVED	--	-6.500	0.000
1.000	1.000	0.000	0.000	0.000	0.000	not available	REMOVED	--	-6.700	0.000
45	0.000	--	--	--	--	--	REMOVED	--	-6.700	0.000
1.000	1.000	0.000	0.000	0.000	0.000	not available	REMOVED	--	-6.900	0.000
46	0.000	--	--	--	--	--	REMOVED	--	-6.900	0.000
1.000	1.000	0.000	0.000	0.000	0.000	not available	REMOVED	--	-7.100	0.000
47	0.000	--	--	--	--	--	REMOVED	--	-7.100	0.000
1.000	1.000	0.000	0.000	0.000	0.000	not available				
48 D	3.978	8.0987E-03	4.000	19.89	156.0	97.34	PASSIVE	0.000	-7.300	0.000
1.000	1.000	19.89	0.000	0.000	BNA3(2)_335_337_L_0					
49 D	6.527	7.7564E-03	8.000	32.64	160.0	99.14	PASSIVE	0.000	-7.500	0.000
1.000	1.000	32.64	0.000	0.000	BNA3(2)_335_337_L_0					
50 D	9.077	7.4144E-03	12.00	45.38	164.0	101.1	PASSIVE	0.000	-7.700	0.000
1.000	1.000	45.38	0.000	0.000	BNA3(2)_335_337_L_0					
51 D	11.63	7.0733E-03	16.00	58.13	168.0	103.2	PASSIVE	0.000	-7.900	0.000
1.000	1.000	58.13	0.000	0.000	BNA3(2)_335_337_L_0					
52 D	14.18	6.7340E-03	20.00	70.88	172.0	105.3	PASSIVE	0.000	-8.100	0.000
1.000	1.000	70.88	0.000	0.000	BNA3(2)_335_337_L_0					
53 D	16.73	6.3973E-03	24.00	83.63	176.0	107.5	PASSIVE	0.000	-8.300	0.000
1.000	1.000	83.63	0.000	0.000	BNA3(2)_335_337_L_0					
54 D	19.28	6.0639E-03	28.00	96.38	180.0	109.7	PASSIVE	0.000	-8.500	0.000
1.000	1.000	96.38	0.000	0.000	BNA3(2)_335_337_L_0					
55 D	21.82	5.7346E-03	32.00	109.1	184.0	112.1	PASSIVE	0.000	-8.700	0.000
1.000	1.000	109.1	0.000	0.000	BNA3(2)_335_337_L_0					
56 D	24.37	5.4101E-03	36.00	121.9	188.0	121.9	PASSIVE	0.000	-8.900	0.000
1.000	1.000	121.9	0.000	0.000	BNA3(2)_335_337_L_0					
57 D	26.92	5.0911E-03	40.00	134.6	192.0	134.6	PASSIVE	0.000	-9.100	0.000
1.000	1.000	134.6	0.000	0.000	BNA3(2)_335_337_L_0					
58 D	29.47	4.7782E-03	44.00	147.4	196.0	147.4	PASSIVE	0.000	-9.300	0.000
1.000	1.000	147.4	0.000	0.000	BNA3(2)_335_337_L_0					
59 D	29.89	4.4721E-03	48.00	149.4	200.0	149.4	V-C	6311.	-9.500	0.000
1.000	1.000	149.4	0.000	0.000	BNA3(2)_335_337_L_0					
60 D	29.98	4.1731E-03	52.00	149.9	204.0	149.9	V-C	6311.	-9.700	0.000
1.000	1.000	149.9	0.000	0.000	BNA3(2)_335_337_L_0					
61 D	30.08	3.8816E-03	56.00	150.4	208.0	150.4	V-C	6311.	-9.900	0.000
1.000	1.000	150.4	0.000	0.000	BNA3(2)_335_337_L_0					
62 D	30.19	3.5980E-03	60.00	151.0	212.0	151.0	V-C	6311.	-10.10	0.000
1.000	1.000	151.0	0.000	0.000	BNA3(2)_335_337_L_0					
63 D	30.32	3.3225E-03	64.00	151.6	216.0	151.6	V-C	6311.	-10.30	0.000
1.000	1.000	151.6	0.000	0.000	BNA3(2)_335_337_L_0					
64 D	30.45	3.0551E-03	68.00	152.3	220.0	152.3	V-C	6311.	-10.50	0.000
1.000	1.000	152.3	0.000	0.000	BNA3(2)_335_337_L_0					
65 D	30.60	2.7960E-03	72.00	153.0	224.0	153.0	V-C	6311.	-10.70	0.000
1.000	1.000	153.0	0.000	0.000	BNA3(2)_335_337_L_0					
66 D	30.76	2.5451E-03	76.00	153.8	228.0	153.8	V-C	6311.	-10.90	0.000
1.000	1.000	153.8	0.000	0.000	BNA3(2)_335_337_L_0					
67 D	30.93	2.3024E-03	80.00	154.6	232.0	154.6	V-C	6311.	-11.10	0.000
1.000	1.000	154.6	0.000	0.000	BNA3(2)_335_337_L_0					
68 D	31.11	2.0677E-03	84.00	155.5	236.0	155.5	V-C	6311.	-11.30	0.000
1.000	1.000	155.5	0.000	0.000	BNA3(2)_335_337_L_0					
69 D	31.30	1.8408E-03	88.00	156.5	240.0	156.5	V-C	6311.	-11.50	0.000
1.000	1.000	156.5	0.000	0.000	BNA3(2)_335_337_L_0					
70 D	31.50	1.6215E-03	92.00	157.5	244.0	157.5	V-C	6311.	-11.70	0.000
1.000	1.000	157.5	0.000	0.000	BNA3(2)_335_337_L_0					
71 D	31.71	1.4095E-03	96.00	158.6	248.0	158.6	V-C	6311.	-11.90	0.000
1.000	1.000	158.6	0.000	0.000	BNA3(2)_335_337_L_0					
72 D	31.93	1.2044E-03	100.0	159.7	252.0	159.7	V-C	6311.	-12.10	0.000
1.000	1.000	159.7	0.000	0.000	BNA3(2)_335_337_L_0					
73 D	32.16	1.0060E-03	104.0	160.8	256.0	160.8	V-C	6311.	-12.30	0.000
1.000	1.000	160.8	0.000	0.000	BNA3(2)_335_337_L_0					
74 D	32.40	8.1389E-04	108.0	162.0	260.0	162.0	V-C	6311.	-12.50	0.000
1.000	1.000	162.0	0.000	0.000	BNA3(2)_335_337_L_0					
75 D	32.64	6.2759E-04	112.0	163.2	264.0	163.2	V-C	6311.	-12.70	0.000
1.000	1.000	163.2	0.000	0.000	BNA3(2)_335_337_L_0					
76 D	32.89	4.4672E-04	116.0	164.5	268.0	164.5	V-C	6311.	-12.90	0.000
1.000	1.000	164.5	0.000	0.000	BNA3(2)_335_337_L_0					
77 D	37.05	2.7085E-04	120.0	185.3	272.0	185.3	V-C	1.0269E+04	-13.10	0.000
1.000	1.000	185.3	0.000	0.000	BNA3(3)_336_338_L_0					
78 D	37.23	9.9541E-05	124.0	186.1	276.0	186.3	UL-RL	1.6430E+04	-13.30	0.000
1.000	1.000	186.1	0.000	0.000	BNA3(3)_336_338_L_0					
79 D	37.27	-6.7668E-05	128.0	186.3	280.0	188.6	UL-RL	1.6430E+04	-13.50	0.000
1.000	1.000	186.3	0.000	0.000	BNA3(3)_336_338_L_0					

80 D	37.28	-2.3123E-04	132.0	186.4	284.0	191.2	UL-RL	1.6430E+04	-13.70	0.000
1.000	1.000	186.4	0.000	0.000	BNA3(3)_336_338_L_0					
81 D	37.29	-3.9159E-04	136.0	186.5	288.0	193.9	UL-RL	1.6430E+04	-13.90	0.000
1.000	1.000	186.5	0.000	0.000	BNA3(3)_336_338_L_0					
82 D	37.32	-5.4919E-04	140.0	186.6	292.0	196.5	UL-RL	1.6430E+04	-14.10	0.000
1.000	1.000	186.6	0.000	0.000	BNA3(3)_336_338_L_0					
83 D	37.36	-7.0445E-04	144.0	186.8	296.0	199.2	UL-RL	1.6430E+04	-14.30	0.000
1.000	1.000	186.8	0.000	0.000	BNA3(3)_336_338_L_0					
84 D	37.40	-8.5778E-04	148.0	187.0	300.0	201.8	UL-RL	1.6430E+04	-14.50	0.000
1.000	1.000	187.0	0.000	0.000	BNA3(3)_336_338_L_0					
85 D	37.44	-1.0096E-03	152.0	187.2	304.0	204.4	UL-RL	1.6430E+04	-14.70	0.000
1.000	1.000	187.2	0.000	0.000	BNA3(3)_336_338_L_0					
86 D	37.57	-1.1601E-03	155.0	186.8	307.0	206.4	UL-RL	1.6430E+04	-14.90	0.9999
1.000	1.000	187.8	0.000	0.000	BNA3(3)_336_338_L_0					
87 D	37.76	-1.3098E-03	157.0	185.8	309.0	207.8	UL-RL	1.6430E+04	-15.10	3.000
1.000	1.000	188.8	0.000	0.000	BNA3(3)_336_338_L_0					
88 D	37.95	-1.4589E-03	159.0	184.8	311.0	209.1	UL-RL	1.6430E+04	-15.30	5.000
1.000	1.000	189.8	0.000	0.000	BNA3(3)_336_338_L_0					
89 D	38.15	-1.6076E-03	161.0	183.7	313.0	210.4	UL-RL	1.6430E+04	-15.50	7.000
1.000	1.000	190.7	0.000	0.000	BNA3(3)_336_338_L_0					
90 D	38.33	-1.7561E-03	163.0	182.6	315.0	211.9	UL-RL	1.6430E+04	-15.70	9.000
1.000	1.000	191.6	0.000	0.000	BNA3(3)_336_338_L_0					
91 D	28.88	-1.9045E-03	165.0	181.5	317.0	213.4	UL-RL	1.6430E+04	-15.90	11.00
1.000	1.000	192.5	0.000	0.000	BNA3(3)_336_338_L_0					
92 D	9.648	-1.9787E-03	166.0	181.0	318.0	214.2	UL-RL	1.6430E+04	-16.00	12.00
1.000	1.000	193.0	0.000	0.000	BNA3(3)_336_338_L_0					

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|                PARATIE PLUS 2014 NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Sept23, 2015*                |
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|                                                                                                                                            |
|                NewProject.BaseDesignSection_25.Nominal_60                                                                              |
|                Exe Time :29 June 2020    17:50:46                                                                                          |
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New Project

STRESS RESULTS FOR GROUP NO. 3

WallElement_30 :
ELEMENT TYPE 2 NO.OF ELEMENTS. IN THIS GROUP 91
CURRENT TIME IS 4.0000

WALL2D ELEMENT

EL	TA	TB	MA	MB
1	-7.88020E-10	7.88020E-10	-7.96980E-11	-4.69534E-10
2	4.93725E-09	-4.93725E-09	8.86285E-10	4.61213E-11
3	-2.23864E-09	2.23864E-09	2.25233E-10	-2.74856E-10
4	-2.00993E-09	2.00993E-09	-1.46402E-10	-4.58105E-10
5	-1.45232E-09	1.45232E-09	1.14703E-10	1.50052E-10
6	4.36793E-09	-4.36793E-09	1.43572E-10	1.40128E-09
7	-4.27164E-09	4.27164E-09	-1.38937E-09	8.66514E-10
8	4.24595E-09	-4.24595E-09	-8.67663E-10	1.92198E-09
9	0.24417	-0.24417	-1.35537E-09	4.88338E-02
10	0.97641	-0.97641	-4.88338E-02	0.24412
11	2.1967	-2.1967	-0.24412	0.68346
12	3.9052	-3.9052	-0.68346	1.4645
13	6.1017	-6.1017	-1.4645	2.6848
14	8.7865	-8.7865	-2.6848	4.4421
15	11.959	-11.959	-4.4421	6.8340
16	15.620	-15.620	-6.8340	9.9581
17	19.770	-19.770	-9.9581	13.912
18	24.407	-24.407	-13.912	18.794
19	29.533	-29.533	-18.794	24.700
20	35.148	-35.148	-24.700	31.730
21	37.833	-37.833	-31.730	35.513
22	-93.445	93.445	-35.513	16.824
23	-89.373	89.373	-16.824	-1.0506
24	-84.974	84.974	1.0506	-18.045
25	-80.248	80.248	18.045	-34.095
26	-75.194	75.194	34.095	-49.134
27	-69.813	69.813	49.134	-63.096
28	-64.103	64.103	63.096	-75.917
29	-58.067	58.067	75.917	-87.530
30	-51.702	51.702	87.530	-97.871
31	-45.010	45.010	97.871	-106.87
32	-37.990	37.990	106.87	-114.47
33	-30.642	30.642	114.47	-120.60
34	-22.967	22.967	120.60	-125.19
35	-14.963	14.963	125.19	-128.19
36	-6.6318	6.6318	128.19	-129.51
37	2.0274	-2.0274	129.51	-129.11
38	11.015	-11.015	129.11	-126.90
39	20.330	-20.330	126.90	-122.84
40	29.973	-29.973	122.84	-116.84
41	39.944	-39.944	116.84	-108.85
42	50.244	-50.244	108.85	-98.805
43	60.872	-60.872	98.805	-86.630
44	71.827	-71.827	86.630	-72.265
45	83.111	-83.111	72.265	-55.643
46	94.724	-94.724	55.643	-36.698
47	106.66	-106.66	36.698	-15.365
48	114.96	-114.96	15.365	7.6261
49	121.03	-121.03	-7.6261	31.831
50	124.87	-124.87	-31.831	56.806
51	126.50	-126.50	-56.806	82.107
52	125.91	-125.91	-82.107	107.29
53	123.10	-123.10	-107.29	131.91
54	118.06	-118.06	-131.91	155.52
55	110.80	-110.80	-155.52	177.68
56	101.33	-101.33	-177.68	197.95
57	89.629	-89.629	-197.95	215.87
58	75.710	-75.710	-215.87	231.01
59	61.706	-61.706	-231.01	243.35
60	47.940	-47.940	-243.35	252.94
61	34.402	-34.402	-252.94	259.82
62	21.080	-21.080	-259.82	264.04
63	8.7217	-8.7217	-264.04	265.78
64	-2.6309	2.6309	-265.78	265.26
65	-13.009	13.009	-265.26	262.66
66	-22.446	22.446	-262.66	258.17
67	-30.971	30.971	-258.17	251.97
68	-38.616	38.616	-251.97	244.25
69	-45.410	45.410	-244.25	235.17
70	-51.384	51.384	-235.17	224.89

71	-56.564	56.564	-224.89	213.58
72	-60.979	60.979	-213.58	201.38
73	-64.652	64.652	-201.38	188.45
74	-67.608	67.608	-188.45	174.93
75	-69.869	69.869	-174.93	160.96
76	-71.456	71.456	-160.96	146.67
77	-72.804	72.804	-146.67	132.10
78	-73.204	73.204	-132.10	117.46
79	-72.539	72.539	-117.46	102.96
80	-70.968	70.968	-102.96	88.762
81	-68.541	68.541	-88.762	75.054
82	-65.275	65.275	-75.054	61.999
83	-61.190	61.190	-61.999	49.761
84	-56.304	56.304	-49.761	38.500
85	-50.625	50.625	-38.500	28.375
86	-44.159	44.159	-28.375	19.544
87	-36.911	36.911	-19.544	12.161
88	-28.886	28.886	-12.161	6.3842
89	-20.084	20.084	-6.3842	2.3675
90	-10.489	10.489	-2.3675	0.26970
91	-2.6967	2.6967	-0.26970	-7.91691E-11


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|          PARATIE PLUS 2014 NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Sept23, 2015*          |
|                                                                                                    |
|                               NewProject.BaseDesignSection_25.Nominal_60                            |
|                               Exe Time :29 June 2020      17:50:46                                |
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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 . 4

Tieback_341 :
ELEMENT TYPE 6 NO.OF ELEMENTS. IN THIS GROUP 1
C U R R E N T T I M E I S 4.0000

POST-TENSION 2D-BOUNDARY ELEMENT

	EL	FORCE	d0	EDISPL	pl. eps	K	-ve limit	+ve limit	
ANCHOR	1	134.08	-1.34503E-03	1.29607E-02	0.0000	1655.6	0.0000	0.0000	ELASTIC ORIGINAL YOUNG MODU-
LUS									

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|          PARATIE PLUS 2014 NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Sept23, 2015*          |
|                                                                                                    |
|                               NewProject.BaseDesignSection_25.Nominal_60                            |
|                               Exe Time :29 June 2020      17:50:46                                |
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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 . 5

Tieback_342 :
ELEMENT TYPE 6 NO.OF ELEMENTS. IN THIS GROUP 1
C U R R E N T T I M E I S 4.0000

POST-TENSION 2D-BOUNDARY ELEMENT

EL	FORCE	d0	EDISPL	pl. eps	K	-ve limit	+ve limit
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***** NO ONE ELEMENT ACTIVE AT CURRENT STEP *****

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ITER      0  RNORM = 0.000      RMNORM= 0.000
            RINORM=0.7739E+06   RIMNOR=0.2977E+07
            RENORM=0.1563E+05   REMNOR=0.2676E-17   RATIO =0.1421      TOLER =0.1000E-03   NOT CONVERGED
            RFMAX = 134.1      RMMAX = 265.8
            RTSMAL=0.1000E-02   RMSMAL=0.1000E-02
            RDT =0.7739E+06      RDR =0.2977E+07
            RATIO=0.1421      RATIO= 0.000
            MAX UN=0.8640E-08   IEQ=    13 NODE      7 DOF    1 Y-DISPL.F
            MIN UN=-125.0      IEQ=    83 NODE     42 DOF    1 Y-DISPL.F
            NO. OF CONTACT CONSTRAINT VIOLATIONS      0

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ITER      2  RNORM = 0.000      RMNORM= 0.000
            RINORM=0.7739E+06   RIMNOR=0.2977E+07
            RENORM=0.6393E-15   REMNOR=0.1602E-17   RATIO =0.2874E-10   TOLER =0.1000E-03      CONVERGED !
            RFMAX = 134.1      RMMAX = 265.8
            RTSMAL=0.1000E-02   RMSMAL=0.1000E-02
            RDT =0.7739E+06      RDR =0.2977E+07
            RATIO=0.2874E-10   RATIO= 0.000
            MAX UN=0.8227E-08   IEQ=    43 NODE     22 DOF    1 Y-DISPL.F
            MIN UN=-.1067E-07   IEQ=    41 NODE     21 DOF    1 Y-DISPL.F
            NO. OF CONTACT CONSTRAINT VIOLATIONS      0

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|                PARATIE PLUS 2014 NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Sept23, 2015*                |
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|                                                                                                                                            |
|                NewProject.BaseDesignSection_25.Nominal_60                                                                              |
|                Exe Time :29 June 2020      17:50:46                                                                              |
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New Project
SOLUTION REACHED USING 2 ITERATIONS ON 40

PRINT OUT FOR TIME STEP 5 (AT TIME 5.000)

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

	Y-DISPL.F (02)	X-ROT. F (04)	(
1	2.1435164E-02	-1.5186386E-03	
2	2.1131437E-02	-1.5186386E-03	
3	2.0827709E-02	-1.5186386E-03	
4	2.0523981E-02	-1.5186386E-03	
5	2.0220254E-02	-1.5186386E-03	
6	1.9916526E-02	-1.5186386E-03	
7	1.9612798E-02	-1.5186386E-03	
8	1.9309070E-02	-1.5186386E-03	
9	1.9005343E-02	-1.5186386E-03	
10	1.8701615E-02	-1.5186298E-03	
11	1.8397893E-02	-1.5185867E-03	
12	1.8094186E-02	-1.5184684E-03	
13	1.7790514E-02	-1.5182182E-03	
14	1.7486912E-02	-1.5177640E-03	
15	1.7183428E-02	-1.5170180E-03	
16	1.6880131E-02	-1.5158768E-03	
17	1.6577112E-02	-1.5142214E-03	
18	1.6274486E-02	-1.5119173E-03	
19	1.5972398E-02	-1.5088145E-03	
20	1.5671025E-02	-1.5047470E-03	
21	1.5370576E-02	-1.4995337E-03	
22	1.5220774E-02	-1.4964457E-03	
23	1.4922049E-02	-1.4912372E-03	
24	1.4624111E-02	-1.4885534E-03	
25	1.4326473E-02	-1.4881981E-03	
26	1.4028690E-02	-1.4899630E-03	
27	1.3730361E-02	-1.4936282E-03	
28	1.3431128E-02	-1.4989620E-03	
29	1.3130681E-02	-1.5057211E-03	
30	1.2828761E-02	-1.5136505E-03	
31	1.2525161E-02	-1.5224835E-03	
32	1.2219726E-02	-1.5319422E-03	
33	1.1912361E-02	-1.5417368E-03	
34	1.1603029E-02	-1.5515667E-03	
35	1.1291753E-02	-1.5611197E-03	
36	1.0978621E-02	-1.5700726E-03	
37	1.0663788E-02	-1.5780913E-03	
38	1.0347472E-02	-1.5848310E-03	
39	1.0029965E-02	-1.5899362E-03	
40	9.7116305E-03	-1.5930410E-03	
41	9.3929066E-03	-1.5937694E-03	
42	9.0743053E-03	-1.5917354E-03	
43	8.7562919E-03	-1.5884852E-03	
44	8.4388898E-03	-1.5855555E-03	
45	8.1220776E-03	-1.5825323E-03	
46	7.8059129E-03	-1.5789929E-03	
47	7.4905436E-03	-1.5745058E-03	
48	7.1762031E-03	-1.5686313E-03	
49	6.8632112E-03	-1.5609545E-03	
50	6.5519663E-03	-1.5511257E-03	
51	6.2429244E-03	-1.5388683E-03	
52	5.9365944E-03	-1.5239792E-03	
53	5.6335168E-03	-1.5063290E-03	
54	5.3342506E-03	-1.4858615E-03	
55	5.0393588E-03	-1.4625948E-03	
56	4.7493932E-03	-1.4366203E-03	
57	4.4648802E-03	-1.4081034E-03	
58	4.1863068E-03	-1.3772835E-03	
59	3.9141009E-03	-1.3444734E-03	
60	3.6486266E-03	-1.3100266E-03	
61	3.3901756E-03	-1.2742992E-03	
62	3.1389650E-03	-1.2376438E-03	
63	2.8951527E-03	-1.2004126E-03	
64	2.6588159E-03	-1.1629420E-03	
65	2.4299711E-03	-1.1255430E-03	
66	2.2085750E-03	-1.0885000E-03	
67	1.9945301E-03	-1.0520719E-03	
68	1.7876896E-03	-1.0164925E-03	
69	1.5878625E-03	-9.8197228E-04	
70	1.3948176E-03	-9.4869824E-04	
71	1.2082983E-03	-9.1683685E-04	
72	1.0279888E-03	-8.8652837E-04	
73	8.5357509E-04	-8.5789715E-04	
74	6.8471123E-04	-8.3104586E-04	

75 5.2103253E-04 -8.0605786E-04
76 3.6215956E-04 -7.8299776E-04
77 2.0770180E-04 -7.6191200E-04
78 5.7260929E-05 -7.4283371E-04
79 -8.9566593E-05 -7.2577908E-04
80 -2.3318489E-04 -7.1073729E-04
81 -3.7399322E-04 -6.9767113E-04
82 -5.1238102E-04 -6.8652012E-04
83 -6.4872342E-04 -6.7720149E-04
84 -7.8337680E-04 -6.6961068E-04
85 -9.1667449E-04 -6.6362190E-04
86 -1.0489226E-03 -6.5908843E-04
87 -1.1803957E-03 -6.5584287E-04
88 -1.3113331E-03 -6.5369723E-04
89 -1.4419341E-03 -6.5244310E-04
90 -1.5723545E-03 -6.5185169E-04
91 -1.7027023E-03 -6.5167359E-04
92 -1.7678756E-03 -6.5166449E-04

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|                PARATIE PLUS 2014 NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Sept23, 2015*                |
|                                                                                                            |
|                NewProject.BaseDesignSection_25.Nominal_60                                             |
|                Exe Time :29 June 2020      17:50:46                                                    |
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New Project

STRESS RESULTS FOR GROUP NO. 1

0_L :
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 92
CURRENT TIME IS 5.0000

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 LAYER	MAX-H-P	STATE	STIFFNESS	Z-LEVEL	PORE	E FAC-
1	0.000	--	--	--	--	--	REMOVED	--	2.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
2	0.000	--	--	--	--	--	REMOVED	--	1.800	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
3	0.000	--	--	--	--	--	REMOVED	--	1.600	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
4	0.000	--	--	--	--	--	REMOVED	--	1.400	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
5	0.000	--	--	--	--	--	REMOVED	--	1.200	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
6	0.000	--	--	--	--	--	REMOVED	--	1.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
7	0.000	--	--	--	--	--	REMOVED	--	0.8000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
8	0.000	--	--	--	--	--	REMOVED	--	0.6000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
9 D	0.5675	-1.9005E-02	2.001	2.838	2.001	3.703	UL-RL	3031.	0.4000	0.000	
1.000	1.000	2.838	0.000	0.000	FRANA_334_8_L_0						
10 D	1.069	-1.8702E-02	6.002	5.346	6.002	11.10	UL-RL	3031.	0.2000	0.000	
1.000	1.000	5.346	0.000	0.000	FRANA_334_8_L_0						
11 D	1.571	-1.8398E-02	10.00	7.855	10.00	15.43	UL-RL	3031.	-1.4901E-07	0.000	
1.000	1.000	7.855	0.000	0.000	FRANA_334_8_L_0						
12 D	2.073	-1.8094E-02	14.00	10.36	14.00	17.85	UL-RL	3031.	-0.2000	0.000	
1.000	1.000	10.36	0.000	0.000	FRANA_334_8_L_0						
13 D	2.575	-1.7791E-02	18.00	12.87	18.00	20.28	UL-RL	3031.	-0.4000	0.000	
1.000	1.000	12.87	0.000	0.000	FRANA_334_8_L_0						
14 D	3.076	-1.7487E-02	22.01	15.38	22.01	22.70	UL-RL	3031.	-0.6000	0.000	
1.000	1.000	15.38	0.000	0.000	FRANA_334_8_L_0						
15 D	3.578	-1.7183E-02	26.01	17.89	26.01	25.12	UL-RL	3031.	-0.8000	0.000	
1.000	1.000	17.89	0.000	0.000	FRANA_334_8_L_0						
16 D	4.080	-1.6880E-02	30.01	20.40	30.01	27.54	UL-RL	3031.	-1.000	0.000	
1.000	1.000	20.40	0.000	0.000	FRANA_334_8_L_0						
17 D	4.582	-1.6577E-02	34.01	22.91	34.01	29.96	UL-RL	3031.	-1.200	0.000	
1.000	1.000	22.91	0.000	0.000	FRANA_334_8_L_0						
18 D	5.083	-1.6274E-02	38.01	25.42	38.01	32.38	UL-RL	3031.	-1.400	0.000	
1.000	1.000	25.42	0.000	0.000	FRANA_334_8_L_0						
19 D	5.585	-1.5972E-02	42.02	27.93	42.02	34.80	UL-RL	3031.	-1.600	0.000	
1.000	1.000	27.93	0.000	0.000	FRANA_334_8_L_0						
20 D	6.087	-1.5671E-02	46.02	30.43	46.02	37.21	UL-RL	3031.	-1.800	0.000	
1.000	1.000	30.43	0.000	0.000	FRANA_334_8_L_0						
21 D	4.169	-1.5371E-02	50.02	27.79	50.02	45.40	UL-RL	1.2345E+04	-2.000	0.000	
1.000	1.000	27.79	0.000	0.000	BNA3(2)_335_337_L_0						
22 D	4.312	-1.5221E-02	52.02	28.75	52.02	45.77	UL-RL	1.2345E+04	-2.100	0.000	
1.000	1.000	28.75	0.000	0.000	BNA3(2)_335_337_L_0						
23 D	6.130	-1.4922E-02	56.03	30.65	56.03	46.51	UL-RL	1.2345E+04	-2.300	0.000	
1.000	1.000	30.65	0.000	0.000	BNA3(2)_335_337_L_0						
24 D	6.511	-1.4624E-02	60.03	32.55	60.03	47.24	UL-RL	1.2345E+04	-2.500	0.000	
1.000	1.000	32.55	0.000	0.000	BNA3(2)_335_337_L_0						
25 D	6.890	-1.4326E-02	64.03	34.45	64.03	47.97	UL-RL	1.2345E+04	-2.700	0.000	
1.000	1.000	34.45	0.000	0.000	BNA3(2)_335_337_L_0						
26 D	7.268	-1.4029E-02	68.04	36.34	68.04	48.71	UL-RL	1.2345E+04	-2.900	0.000	
1.000	1.000	36.34	0.000	0.000	BNA3(2)_335_337_L_0						
27 D	7.646	-1.3730E-02	72.04	38.23	72.04	49.46	UL-RL	1.2345E+04	-3.100	0.000	
1.000	1.000	38.23	0.000	0.000	BNA3(2)_335_337_L_0						
28 D	8.021	-1.3431E-02	76.05	40.11	76.05	50.24	UL-RL	1.2345E+04	-3.300	0.000	
1.000	1.000	40.11	0.000	0.000	BNA3(2)_335_337_L_0						
29 D	8.395	-1.3131E-02	80.05	41.98	80.05	51.04	UL-RL	1.2345E+04	-3.500	0.000	
1.000	1.000	41.98	0.000	0.000	BNA3(2)_335_337_L_0						
30 D	8.767	-1.2829E-02	84.06	43.83	84.06	51.88	UL-RL	1.2345E+04	-3.700	0.000	
1.000	1.000	43.83	0.000	0.000	BNA3(2)_335_337_L_0						
31 D	9.136	-1.2525E-02	88.07	45.68	88.07	54.27	UL-RL	1.2345E+04	-3.900	0.000	
1.000	1.000	45.68	0.000	0.000	BNA3(2)_335_337_L_0						
32 D	9.503	-1.2220E-02	92.07	47.51	92.07	56.70	UL-RL	1.2345E+04	-4.100	0.000	
1.000	1.000	47.51	0.000	0.000	BNA3(2)_335_337_L_0						
33 D	9.866	-1.1912E-02	96.08	49.33	96.08	59.12	UL-RL	1.2345E+04	-4.300	0.000	
1.000	1.000	49.33	0.000	0.000	BNA3(2)_335_337_L_0						

34 D	10.22	-1.1603E-02	100.1	51.12	100.1	61.54	UL-RL	1.2345E+04	-4.500	0.000
1.000	1.000	51.12	0.000	0.000	BNA3(2)_335_337_L_0					
35 D	10.58	-1.1292E-02	104.1	52.90	104.1	63.95	UL-RL	1.2345E+04	-4.700	0.000
1.000	1.000	52.90	0.000	0.000	BNA3(2)_335_337_L_0					
36 D	10.93	-1.0979E-02	108.1	54.64	108.1	66.37	UL-RL	1.2345E+04	-4.900	0.000
1.000	1.000	54.64	0.000	0.000	BNA3(2)_335_337_L_0					
37 D	11.27	-1.0664E-02	112.1	56.37	112.1	68.79	UL-RL	1.2345E+04	-5.100	0.000
1.000	1.000	56.37	0.000	0.000	BNA3(2)_335_337_L_0					
38 D	11.61	-1.0347E-02	116.1	58.06	116.1	71.21	UL-RL	1.2345E+04	-5.300	0.000
1.000	1.000	58.06	0.000	0.000	BNA3(2)_335_337_L_0					
39 D	11.94	-1.0030E-02	120.1	59.71	120.1	73.62	UL-RL	1.2345E+04	-5.500	0.000
1.000	1.000	59.71	0.000	0.000	BNA3(2)_335_337_L_0					
40 D	12.27	-9.7116E-03	124.1	61.33	124.1	76.03	UL-RL	1.2345E+04	-5.700	0.000
1.000	1.000	61.33	0.000	0.000	BNA3(2)_335_337_L_0					
41 D	12.58	-9.3929E-03	128.2	62.90	128.2	78.45	UL-RL	1.2345E+04	-5.900	0.000
1.000	1.000	62.90	0.000	0.000	BNA3(2)_335_337_L_0					
42 D	12.89	-9.0743E-03	132.2	64.43	132.2	80.86	UL-RL	1.2345E+04	-6.100	0.000
1.000	1.000	64.43	0.000	0.000	BNA3(2)_335_337_L_0					
43 D	13.18	-8.7563E-03	136.2	65.91	136.2	83.27	UL-RL	1.2345E+04	-6.300	0.000
1.000	1.000	65.91	0.000	0.000	BNA3(2)_335_337_L_0					
44 D	13.47	-8.4389E-03	140.2	67.35	140.2	85.68	UL-RL	1.2345E+04	-6.500	0.000
1.000	1.000	67.35	0.000	0.000	BNA3(2)_335_337_L_0					
45 D	13.75	-8.1221E-03	144.2	68.74	144.2	88.09	UL-RL	1.2345E+04	-6.700	0.000
1.000	1.000	68.74	0.000	0.000	BNA3(2)_335_337_L_0					
46 D	14.02	-7.8059E-03	148.2	70.10	148.2	90.50	UL-RL	1.2345E+04	-6.900	0.000
1.000	1.000	70.10	0.000	0.000	BNA3(2)_335_337_L_0					
47 D	14.29	-7.4905E-03	152.2	71.43	152.2	92.90	UL-RL	1.2345E+04	-7.100	0.000
1.000	1.000	71.43	0.000	0.000	BNA3(2)_335_337_L_0					
48 D	14.55	-7.1762E-03	156.2	72.73	156.2	95.31	UL-RL	1.2345E+04	-7.300	0.000
1.000	1.000	72.73	0.000	0.000	BNA3(2)_335_337_L_0					
49 D	14.80	-6.8632E-03	160.3	74.01	160.3	97.71	UL-RL	1.2345E+04	-7.500	0.000
1.000	1.000	74.01	0.000	0.000	BNA3(2)_335_337_L_0					
50 D	15.06	-6.5520E-03	164.3	75.28	164.3	100.1	UL-RL	1.2345E+04	-7.700	0.000
1.000	1.000	75.28	0.000	0.000	BNA3(2)_335_337_L_0					
51 D	15.30	-6.2429E-03	168.3	76.52	168.3	102.7	UL-RL	1.2345E+04	-7.900	0.000
1.000	1.000	76.52	0.000	0.000	BNA3(2)_335_337_L_0					
52 D	15.55	-5.9366E-03	172.3	77.76	172.3	105.5	UL-RL	1.2345E+04	-8.100	0.000
1.000	1.000	77.76	0.000	0.000	BNA3(2)_335_337_L_0					
53 D	15.80	-5.6335E-03	176.3	78.99	176.3	108.3	UL-RL	1.2345E+04	-8.300	0.000
1.000	1.000	78.99	0.000	0.000	BNA3(2)_335_337_L_0					
54 D	16.04	-5.3343E-03	180.3	80.21	180.3	111.0	UL-RL	1.2345E+04	-8.500	0.000
1.000	1.000	80.21	0.000	0.000	BNA3(2)_335_337_L_0					
55 D	16.29	-5.0394E-03	184.4	81.43	184.4	113.7	UL-RL	1.2345E+04	-8.700	0.000
1.000	1.000	81.43	0.000	0.000	BNA3(2)_335_337_L_0					
56 D	16.53	-4.7494E-03	188.4	82.64	188.4	116.3	UL-RL	1.2345E+04	-8.900	0.000
1.000	1.000	82.64	0.000	0.000	BNA3(2)_335_337_L_0					
57 D	16.77	-4.4649E-03	192.4	83.86	192.4	118.9	UL-RL	1.2345E+04	-9.100	0.000
1.000	1.000	83.86	0.000	0.000	BNA3(2)_335_337_L_0					
58 D	17.02	-4.1863E-03	196.4	85.08	196.4	121.5	UL-RL	1.2345E+04	-9.300	0.000
1.000	1.000	85.08	0.000	0.000	BNA3(2)_335_337_L_0					
59 D	17.26	-3.9141E-03	200.4	86.31	200.4	124.1	UL-RL	1.2345E+04	-9.500	0.000
1.000	1.000	86.31	0.000	0.000	BNA3(2)_335_337_L_0					
60 D	17.51	-3.6486E-03	204.5	87.54	204.5	126.6	UL-RL	1.2345E+04	-9.700	0.000
1.000	1.000	87.54	0.000	0.000	BNA3(2)_335_337_L_0					
61 D	17.76	-3.3902E-03	208.5	88.78	208.5	129.1	UL-RL	1.2345E+04	-9.900	0.000
1.000	1.000	88.78	0.000	0.000	BNA3(2)_335_337_L_0					
62 D	18.00	-3.1390E-03	212.5	90.02	212.5	131.6	UL-RL	1.2345E+04	-10.10	0.000
1.000	1.000	90.02	0.000	0.000	BNA3(2)_335_337_L_0					
63 D	19.01	-2.8952E-03	216.5	95.06	216.5	134.0	UL-RL	1.2345E+04	-10.30	0.000
1.000	1.000	95.06	0.000	0.000	BNA3(2)_335_337_L_0					
64 D	20.08	-2.6588E-03	220.5	100.4	220.5	136.5	UL-RL	1.2345E+04	-10.50	0.000
1.000	1.000	100.4	0.000	0.000	BNA3(2)_335_337_L_0					
65 D	21.12	-2.4300E-03	224.6	105.6	224.6	138.9	UL-RL	1.2345E+04	-10.70	0.000
1.000	1.000	105.6	0.000	0.000	BNA3(2)_335_337_L_0					
66 D	22.15	-2.2086E-03	228.6	110.8	228.6	141.2	UL-RL	1.2345E+04	-10.90	0.000
1.000	1.000	110.8	0.000	0.000	BNA3(2)_335_337_L_0					
67 D	23.16	-1.9945E-03	232.6	115.8	232.6	143.6	UL-RL	1.2345E+04	-11.10	0.000
1.000	1.000	115.8	0.000	0.000	BNA3(2)_335_337_L_0					
68 D	24.15	-1.7877E-03	236.6	120.8	236.6	145.9	UL-RL	1.2345E+04	-11.30	0.000
1.000	1.000	120.8	0.000	0.000	BNA3(2)_335_337_L_0					
69 D	25.13	-1.5879E-03	240.7	125.6	240.7	148.2	UL-RL	1.2345E+04	-11.50	0.000
1.000	1.000	125.6	0.000	0.000	BNA3(2)_335_337_L_0					
70 D	26.09	-1.3948E-03	244.7	130.4	244.7	150.5	UL-RL	1.2345E+04	-11.70	0.000
1.000	1.000	130.4	0.000	0.000	BNA3(2)_335_337_L_0					
71 D	27.03	-1.2083E-03	248.7	135.1	248.7	152.8	UL-RL	1.2345E+04	-11.90	0.000
1.000	1.000	135.1	0.000	0.000	BNA3(2)_335_337_L_0					
72 D	27.95	-1.0280E-03	252.7	139.8	252.7	155.1	UL-RL	1.2345E+04	-12.10	0.000
1.000	1.000	139.8	0.000	0.000	BNA3(2)_335_337_L_0					
73 D	28.86	-8.5358E-04	256.8	144.3	256.8	157.4	UL-RL	1.2345E+04	-12.30	0.000
1.000	1.000	144.3	0.000	0.000	BNA3(2)_335_337_L_0					
74 D	29.76	-6.8471E-04	260.8	148.8	260.8	159.6	UL-RL	1.2345E+04	-12.50	0.000
1.000	1.000	148.8	0.000	0.000	BNA3(2)_335_337_L_0					
75 D	30.64	-5.2103E-04	264.8	153.2	264.8	161.9	UL-RL	1.2345E+04	-12.70	0.000
1.000	1.000	153.2	0.000	0.000	BNA3(2)_335_337_L_0					
76 D	31.51	-3.6216E-04	268.8	157.6	268.8	164.1	UL-RL	1.2345E+04	-12.90	0.000
1.000	1.000	157.6	0.000	0.000	BNA3(2)_335_337_L_0					
77 D	35.92	-2.0770E-04	272.9	179.6	272.9	185.8	UL-RL	1.7070E+04	-13.10	0.000
1.000	1.000	179.6	0.000	0.000	BNA3(3)_336_338_L_0					
78 D	36.97	-5.7261E-05	276.9	184.9	276.9	188.3	UL-RL	1.7070E+04	-13.30	0.000
1.000	1.000	184.9	0.000	0.000	BNA3(3)_336_338_L_0					
79 D	38.01	8.9567E-05	280.9	190.0	280.9	190.8	UL-RL	1.7070E+04	-13.50	0.000
1.000	1.000	190.0	0.000	0.000	BNA3(3)_336_338_L_0					

80 D	38.85	2.3318E-04	285.0	194.3	285.0	194.7	UL-RL	1.7070E+04	-13.70	0.000
1.000	1.000	194.3	0.000	0.000	BNA3(3)_336_338_L_0					
81 D	39.66	3.7399E-04	289.0	198.3	289.0	198.9	UL-RL	1.7070E+04	-13.90	0.000
1.000	1.000	198.3	0.000	0.000	BNA3(3)_336_338_L_0					
82 D	40.46	5.1238E-04	293.0	202.3	293.0	203.0	UL-RL	1.7070E+04	-14.10	0.000
1.000	1.000	202.3	0.000	0.000	BNA3(3)_336_338_L_0					
83 D	41.25	6.4872E-04	297.1	206.3	297.1	207.2	UL-RL	1.7070E+04	-14.30	0.000
1.000	1.000	206.3	0.000	0.000	BNA3(3)_336_338_L_0					
84 D	42.03	7.8338E-04	301.1	210.2	301.1	211.4	UL-RL	1.7070E+04	-14.50	0.000
1.000	1.000	210.2	0.000	0.000	BNA3(3)_336_338_L_0					
85 D	42.81	9.1667E-04	305.1	214.0	305.1	215.6	UL-RL	1.7070E+04	-14.70	0.000
1.000	1.000	214.0	0.000	0.000	BNA3(3)_336_338_L_0					
86 D	43.65	1.0489E-03	308.2	217.3	308.2	219.2	UL-RL	1.7070E+04	-14.90	0.9999
1.000	1.000	218.3	0.000	0.000	BNA3(3)_336_338_L_0					
87 D	44.56	1.1804E-03	310.2	219.8	310.2	222.0	UL-RL	1.7070E+04	-15.10	3.000
1.000	1.000	222.8	0.000	0.000	BNA3(3)_336_338_L_0					
88 D	45.48	1.3113E-03	312.2	222.4	312.2	224.9	UL-RL	1.7070E+04	-15.30	5.000
1.000	1.000	227.4	0.000	0.000	BNA3(3)_336_338_L_0					
89 D	46.39	1.4419E-03	314.2	224.9	314.2	227.8	UL-RL	1.7070E+04	-15.50	7.000
1.000	1.000	231.9	0.000	0.000	BNA3(3)_336_338_L_0					
90 D	47.30	1.5724E-03	316.3	227.5	316.3	230.6	UL-RL	1.7070E+04	-15.70	9.000
1.000	1.000	236.5	0.000	0.000	BNA3(3)_336_338_L_0					
91 D	36.15	1.7027E-03	318.3	230.0	318.3	233.5	UL-RL	1.7070E+04	-15.90	11.00
1.000	1.000	241.0	0.000	0.000	BNA3(3)_336_338_L_0					
92 D	12.16	1.7679E-03	319.3	231.3	319.3	234.9	UL-RL	1.7070E+04	-16.00	12.00
1.000	1.000	243.3	0.000	0.000	BNA3(3)_336_338_L_0					

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|                PARATIE PLUS 2014 NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Sept23, 2015*                |
|                                                                                                                    |
|                NewProject.BaseDesignSection_25.Nominal_60                |
|                Exe Time :29 June 2020                17:50:46                |
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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 92
CURRENT TIME IS 5.0000

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 LAYER	MAX-H-P	STATE	STIFFNESS	Z-LEVEL	PORE	E FAC-
1	0.000	--	--	--	--	--	REMOVED	--	2.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
2	0.000	--	--	--	--	--	REMOVED	--	1.800	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
3	0.000	--	--	--	--	--	REMOVED	--	1.600	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
4	0.000	--	--	--	--	--	REMOVED	--	1.400	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
5	0.000	--	--	--	--	--	REMOVED	--	1.200	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
6	0.000	--	--	--	--	--	REMOVED	--	1.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
7	0.000	--	--	--	--	--	REMOVED	--	0.8000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
8	0.000	--	--	--	--	--	REMOVED	--	0.6000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
9	0.000	--	--	--	--	--	REMOVED	--	0.4000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
10	0.000	--	--	--	--	--	REMOVED	--	0.2000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
11	0.000	--	--	--	--	--	REMOVED	--	-1.4901E-07	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
12	0.000	--	--	--	--	--	REMOVED	--	-0.2000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
13	0.000	--	--	--	--	--	REMOVED	--	-0.4000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
14	0.000	--	--	--	--	--	REMOVED	--	-0.6000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
15	0.000	--	--	--	--	--	REMOVED	--	-0.8000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
16	0.000	--	--	--	--	--	REMOVED	--	-1.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
17	0.000	--	--	--	--	--	REMOVED	--	-1.200	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
18	0.000	--	--	--	--	--	REMOVED	--	-1.400	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
19	0.000	--	--	--	--	--	REMOVED	--	-1.600	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
20	0.000	--	--	--	--	--	REMOVED	--	-1.800	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
21	0.000	--	--	--	--	--	REMOVED	--	-2.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
22	0.000	--	--	--	--	--	REMOVED	--	-2.100	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
23	0.000	--	--	--	--	--	REMOVED	--	-2.300	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
24	0.000	--	--	--	--	--	REMOVED	--	-2.500	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
25	0.000	--	--	--	--	--	REMOVED	--	-2.700	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
26	0.000	--	--	--	--	--	REMOVED	--	-2.900	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
27	0.000	--	--	--	--	--	REMOVED	--	-3.100	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
28	0.000	--	--	--	--	--	REMOVED	--	-3.300	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
29	0.000	--	--	--	--	--	REMOVED	--	-3.500	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
30	0.000	--	--	--	--	--	REMOVED	--	-3.700	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
31	0.000	--	--	--	--	--	REMOVED	--	-3.900	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
32	0.000	--	--	--	--	--	REMOVED	--	-4.100	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
33	0.000	--	--	--	--	--	REMOVED	--	-4.300	0.000	
1.000	1.000	0.000	0.000	0.000	not available						

34	0.000	--	--	--	--	--	REMOVED	--	-4.500	0.000
1.000	1.000	0.000	0.000	0.000	not available					
35	0.000	--	--	--	--	--	REMOVED	--	-4.700	0.000
1.000	1.000	0.000	0.000	0.000	not available					
36	0.000	--	--	--	--	--	REMOVED	--	-4.900	0.000
1.000	1.000	0.000	0.000	0.000	not available					
37	0.000	--	--	--	--	--	REMOVED	--	-5.100	0.000
1.000	1.000	0.000	0.000	0.000	not available					
38	0.000	--	--	--	--	--	REMOVED	--	-5.300	0.000
1.000	1.000	0.000	0.000	0.000	not available					
39	0.000	--	--	--	--	--	REMOVED	--	-5.500	0.000
1.000	1.000	0.000	0.000	0.000	not available					
40	0.000	--	--	--	--	--	REMOVED	--	-5.700	0.000
1.000	1.000	0.000	0.000	0.000	not available					
41	0.000	--	--	--	--	--	REMOVED	--	-5.900	0.000
1.000	1.000	0.000	0.000	0.000	not available					
42	0.000	--	--	--	--	--	REMOVED	--	-6.100	0.000
1.000	1.000	0.000	0.000	0.000	not available					
43	0.000	--	--	--	--	--	REMOVED	--	-6.300	0.000
1.000	1.000	0.000	0.000	0.000	not available					
44	0.000	--	--	--	--	--	REMOVED	--	-6.500	0.000
1.000	1.000	0.000	0.000	0.000	not available					
45	0.000	--	--	--	--	--	REMOVED	--	-6.700	0.000
1.000	1.000	0.000	0.000	0.000	not available					
46	0.000	--	--	--	--	--	REMOVED	--	-6.900	0.000
1.000	1.000	0.000	0.000	0.000	not available					
47	0.000	--	--	--	--	--	REMOVED	--	-7.100	0.000
1.000	1.000	0.000	0.000	0.000	not available					
48 D	2.115	7.1762E-03	4.000	10.57	156.0	97.34	UL-RL	1.0098E+04	-7.300	0.000
1.000	1.000	10.57	0.000	0.000	BNA3(2)_335_337_L_0					
49 D	4.723	6.8632E-03	8.000	23.62	160.0	99.14	UL-RL	1.0098E+04	-7.500	0.000
1.000	1.000	23.62	0.000	0.000	BNA3(2)_335_337_L_0					
50 D	7.335	6.5520E-03	12.00	36.68	164.0	101.1	UL-RL	1.0098E+04	-7.700	0.000
1.000	1.000	36.68	0.000	0.000	BNA3(2)_335_337_L_0					
51 D	9.950	6.2429E-03	16.00	49.75	168.0	103.2	UL-RL	1.0098E+04	-7.900	0.000
1.000	1.000	49.75	0.000	0.000	BNA3(2)_335_337_L_0					
52 D	12.57	5.9366E-03	20.00	62.83	172.0	105.3	UL-RL	1.0098E+04	-8.100	0.000
1.000	1.000	62.83	0.000	0.000	BNA3(2)_335_337_L_0					
53 D	15.18	5.6335E-03	24.00	75.92	176.0	107.5	UL-RL	1.0098E+04	-8.300	0.000
1.000	1.000	75.92	0.000	0.000	BNA3(2)_335_337_L_0					
54 D	17.80	5.3343E-03	28.00	89.01	180.0	109.7	UL-RL	1.0098E+04	-8.500	0.000
1.000	1.000	89.01	0.000	0.000	BNA3(2)_335_337_L_0					
55 D	20.42	5.0394E-03	32.00	102.1	184.0	112.1	UL-RL	1.0098E+04	-8.700	0.000
1.000	1.000	102.1	0.000	0.000	BNA3(2)_335_337_L_0					
56 D	23.04	4.7494E-03	36.00	115.2	188.0	121.9	UL-RL	1.0098E+04	-8.900	0.000
1.000	1.000	115.2	0.000	0.000	BNA3(2)_335_337_L_0					
57 D	25.66	4.4649E-03	40.00	128.3	192.0	134.6	UL-RL	1.0098E+04	-9.100	0.000
1.000	1.000	128.3	0.000	0.000	BNA3(2)_335_337_L_0					
58 D	28.28	4.1863E-03	44.00	141.4	196.0	147.4	UL-RL	1.0098E+04	-9.300	0.000
1.000	1.000	141.4	0.000	0.000	BNA3(2)_335_337_L_0					
59 D	28.76	3.9141E-03	48.00	143.8	200.0	149.4	UL-RL	1.0098E+04	-9.500	0.000
1.000	1.000	143.8	0.000	0.000	BNA3(2)_335_337_L_0					
60 D	28.92	3.6486E-03	52.00	144.6	204.0	149.9	UL-RL	1.0098E+04	-9.700	0.000
1.000	1.000	144.6	0.000	0.000	BNA3(2)_335_337_L_0					
61 D	29.09	3.3902E-03	56.00	145.4	208.0	150.4	UL-RL	1.0098E+04	-9.900	0.000
1.000	1.000	145.4	0.000	0.000	BNA3(2)_335_337_L_0					
62 D	29.27	3.1390E-03	60.00	146.3	212.0	151.0	UL-RL	1.0098E+04	-10.10	0.000
1.000	1.000	146.3	0.000	0.000	BNA3(2)_335_337_L_0					
63 D	29.45	2.8952E-03	64.00	147.3	216.0	151.6	UL-RL	1.0098E+04	-10.30	0.000
1.000	1.000	147.3	0.000	0.000	BNA3(2)_335_337_L_0					
64 D	29.65	2.6588E-03	68.00	148.3	220.0	152.3	UL-RL	1.0098E+04	-10.50	0.000
1.000	1.000	148.3	0.000	0.000	BNA3(2)_335_337_L_0					
65 D	29.86	2.4300E-03	72.00	149.3	224.0	153.0	UL-RL	1.0098E+04	-10.70	0.000
1.000	1.000	149.3	0.000	0.000	BNA3(2)_335_337_L_0					
66 D	30.08	2.2086E-03	76.00	150.4	228.0	153.8	UL-RL	1.0098E+04	-10.90	0.000
1.000	1.000	150.4	0.000	0.000	BNA3(2)_335_337_L_0					
67 D	30.31	1.9945E-03	80.00	151.5	232.0	154.6	UL-RL	1.0098E+04	-11.10	0.000
1.000	1.000	151.5	0.000	0.000	BNA3(2)_335_337_L_0					
68 D	30.54	1.7877E-03	84.00	152.7	236.0	155.5	UL-RL	1.0098E+04	-11.30	0.000
1.000	1.000	152.7	0.000	0.000	BNA3(2)_335_337_L_0					
69 D	30.79	1.5879E-03	88.00	153.9	240.0	156.5	UL-RL	1.0098E+04	-11.50	0.000
1.000	1.000	153.9	0.000	0.000	BNA3(2)_335_337_L_0					
70 D	31.04	1.3948E-03	92.00	155.2	244.0	157.5	UL-RL	1.0098E+04	-11.70	0.000
1.000	1.000	155.2	0.000	0.000	BNA3(2)_335_337_L_0					
71 D	31.30	1.2083E-03	96.00	156.5	248.0	158.6	UL-RL	1.0098E+04	-11.90	0.000
1.000	1.000	156.5	0.000	0.000	BNA3(2)_335_337_L_0					
72 D	31.57	1.0280E-03	100.0	157.9	252.0	159.7	UL-RL	1.0098E+04	-12.10	0.000
1.000	1.000	157.9	0.000	0.000	BNA3(2)_335_337_L_0					
73 D	31.85	8.5358E-04	104.0	159.3	256.0	160.8	UL-RL	1.0098E+04	-12.30	0.000
1.000	1.000	159.3	0.000	0.000	BNA3(2)_335_337_L_0					
74 D	32.14	6.8471E-04	108.0	160.7	260.0	162.0	UL-RL	1.0098E+04	-12.50	0.000
1.000	1.000	160.7	0.000	0.000	BNA3(2)_335_337_L_0					
75 D	32.43	5.2103E-04	112.0	162.1	264.0	163.2	UL-RL	1.0098E+04	-12.70	0.000
1.000	1.000	162.1	0.000	0.000	BNA3(2)_335_337_L_0					
76 D	32.72	3.6216E-04	116.0	163.6	268.0	164.5	UL-RL	1.0098E+04	-12.90	0.000
1.000	1.000	163.6	0.000	0.000	BNA3(2)_335_337_L_0					
77 D	36.85	2.0770E-04	120.0	184.2	272.0	185.3	UL-RL	1.6430E+04	-13.10	0.000
1.000	1.000	184.2	0.000	0.000	BNA3(3)_336_338_L_0					
78 D	37.09	5.7261E-05	124.0	185.4	276.0	186.3	UL-RL	1.6430E+04	-13.30	0.000
1.000	1.000	185.4	0.000	0.000	BNA3(3)_336_338_L_0					
79 D	37.20	-8.9567E-05	128.0	186.0	280.0	188.6	UL-RL	1.6430E+04	-13.50	0.000
1.000	1.000	186.0	0.000	0.000	BNA3(3)_336_338_L_0					

80 D	37.27	-2.3318E-04	132.0	186.3	284.0	191.2	UL-RL	1.6430E+04	-13.70	0.000
1.000	1.000	186.3	0.000	0.000	BNA3(3)_336_338_L_0					
81 D	37.35	-3.7399E-04	136.0	186.8	288.0	193.9	UL-RL	1.6430E+04	-13.90	0.000
1.000	1.000	186.8	0.000	0.000	BNA3(3)_336_338_L_0					
82 D	37.44	-5.1238E-04	140.0	187.2	292.0	196.5	UL-RL	1.6430E+04	-14.10	0.000
1.000	1.000	187.2	0.000	0.000	BNA3(3)_336_338_L_0					
83 D	37.54	-6.4872E-04	144.0	187.7	296.0	199.2	UL-RL	1.6430E+04	-14.30	0.000
1.000	1.000	187.7	0.000	0.000	BNA3(3)_336_338_L_0					
84 D	37.64	-7.8338E-04	148.0	188.2	300.0	201.8	UL-RL	1.6430E+04	-14.50	0.000
1.000	1.000	188.2	0.000	0.000	BNA3(3)_336_338_L_0					
85 D	37.75	-9.1667E-04	152.0	188.8	304.0	204.4	UL-RL	1.6430E+04	-14.70	0.000
1.000	1.000	188.8	0.000	0.000	BNA3(3)_336_338_L_0					
86 D	37.93	-1.0489E-03	155.0	188.7	307.0	206.4	UL-RL	1.6430E+04	-14.90	0.9999
1.000	1.000	189.7	0.000	0.000	BNA3(3)_336_338_L_0					
87 D	38.18	-1.1804E-03	157.0	187.9	309.0	207.8	UL-RL	1.6430E+04	-15.10	3.000
1.000	1.000	190.9	0.000	0.000	BNA3(3)_336_338_L_0					
88 D	38.44	-1.3113E-03	159.0	187.2	311.0	209.1	UL-RL	1.6430E+04	-15.30	5.000
1.000	1.000	192.2	0.000	0.000	BNA3(3)_336_338_L_0					
89 D	38.69	-1.4419E-03	161.0	186.5	313.0	210.4	UL-RL	1.6430E+04	-15.50	7.000
1.000	1.000	193.5	0.000	0.000	BNA3(3)_336_338_L_0					
90 D	38.93	-1.5724E-03	163.0	185.7	315.0	211.9	UL-RL	1.6430E+04	-15.70	9.000
1.000	1.000	194.7	0.000	0.000	BNA3(3)_336_338_L_0					
91 D	29.38	-1.7027E-03	165.0	184.8	317.0	213.4	UL-RL	1.6430E+04	-15.90	11.00
1.000	1.000	195.8	0.000	0.000	BNA3(3)_336_338_L_0					
92 D	9.821	-1.7679E-03	166.0	184.4	318.0	214.2	UL-RL	1.6430E+04	-16.00	12.00
1.000	1.000	196.4	0.000	0.000	BNA3(3)_336_338_L_0					

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|                PARATIE PLUS 2014 NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Sept23, 2015*                |
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|                                                                                                                                            |
|                NewProject.BaseDesignSection_25.Nominal_60                                                                              |
|                Exe Time :29 June 2020      17:50:46                                                                              |
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New Project

STRESS RESULTS FOR GROUP NO. 3

WallElement_30 :
ELEMENT TYPE 2 NO.OF ELEMENTS. IN THIS GROUP 91
CURRENT TIME IS 5.0000

WALL2D ELEMENT

EL	TA	TB	MA	MB
1	1.52937E-09	-1.52937E-09	1.64274E-10	-2.28972E-10
2	5.42570E-10	-5.42570E-10	4.49273E-10	-3.91346E-10
3	4.71658E-10	-4.71658E-10	4.72616E-10	1.63070E-12
4	2.79221E-09	-2.79221E-09	2.83562E-10	8.16804E-11
5	-3.45685E-09	3.45685E-09	-1.71106E-10	5.86482E-11
6	-1.06780E-10	1.06780E-10	-4.16222E-10	1.06749E-09
7	-4.62677E-10	4.62677E-10	-1.18746E-09	1.38674E-09
8	7.09832E-10	-7.09832E-10	-1.42132E-09	1.76054E-09
9	0.56751	-0.56751	-1.31535E-09	0.11350
10	1.6368	-1.6368	-0.11350	0.44085
11	3.2078	-3.2078	-0.44085	1.0824
12	5.2805	-5.2805	-1.0824	2.1385
13	7.8550	-7.8550	-2.1385	3.7095
14	10.931	-10.931	-3.7095	5.8958
15	14.509	-14.509	-5.8958	8.7977
16	18.589	-18.589	-8.7977	12.516
17	23.171	-23.171	-12.516	17.150
18	28.255	-28.255	-17.150	22.801
19	33.840	-33.840	-22.801	29.569
20	39.927	-39.927	-29.569	37.554
21	44.096	-44.096	-37.554	41.964
22	-84.332	84.332	-41.964	25.097
23	-78.202	78.202	-25.097	9.4567
24	-71.691	71.691	-9.4567	-4.8815
25	-64.801	64.801	4.8815	-17.842
26	-57.533	57.533	17.842	-29.348
27	-49.887	49.887	29.348	-39.326
28	-41.866	41.866	39.326	-47.699
29	-33.471	33.471	47.699	-54.393
30	-24.704	24.704	54.393	-59.334
31	-15.568	15.568	59.334	-62.448
32	-6.0652	6.0652	62.448	-63.661
33	3.8003	-3.8003	63.661	-62.901
34	14.025	-14.025	62.901	-60.096
35	24.604	-24.604	60.096	-55.175
36	35.533	-35.533	55.175	-48.068
37	46.806	-46.806	48.068	-38.707
38	58.417	-58.417	38.707	-27.024
39	70.359	-70.359	27.024	-12.952
40	82.625	-82.625	12.952	3.5733
41	95.205	-95.205	-3.5733	22.615
42	-16.908	16.908	-22.615	19.233
43	-3.7258	3.7258	-19.233	18.488
44	9.7437	-9.7437	-18.488	20.436
45	23.492	-23.492	-20.436	25.135
46	37.513	-37.513	-25.135	32.637
47	51.799	-51.799	-32.637	42.997
48	64.231	-64.231	-42.997	55.843
49	74.310	-74.310	-55.843	70.705
50	82.030	-82.030	-70.705	87.111
51	87.385	-87.385	-87.111	104.59
52	90.371	-90.371	-104.59	122.66
53	90.985	-90.985	-122.66	140.86
54	89.225	-89.225	-140.86	158.70
55	85.089	-85.089	-158.70	175.72
56	78.578	-78.578	-175.72	191.44
57	69.690	-69.690	-191.44	205.38
58	58.428	-58.428	-205.38	217.06
59	46.928	-46.928	-217.06	226.45
60	35.517	-35.517	-226.45	233.55
61	24.185	-24.185	-233.55	238.39
62	12.923	-12.923	-238.39	240.97
63	2.4828	-2.4828	-240.97	241.47
64	-7.0910	7.0910	-241.47	240.05
65	-15.826	15.826	-240.05	236.89
66	-23.752	23.752	-236.89	232.14
67	-30.895	30.895	-232.14	225.96
68	-37.283	37.283	-225.96	218.50
69	-42.943	42.943	-218.50	209.91
70	-47.899	47.899	-209.91	200.33

71	-52.176	52.176	-200.33	189.90
72	-55.798	55.798	-189.90	178.74
73	-58.787	58.787	-178.74	166.98
74	-61.163	61.163	-166.98	154.75
75	-62.946	62.946	-154.75	142.16
76	-64.154	64.154	-142.16	129.33
77	-65.079	65.079	-129.33	116.31
78	-65.195	65.195	-116.31	103.27
79	-64.384	64.384	-103.27	90.395
80	-62.799	62.799	-90.395	77.835
81	-60.490	60.490	-77.835	65.737
82	-57.471	57.471	-65.737	54.243
83	-53.760	53.760	-54.243	43.491
84	-49.372	49.372	-43.491	33.616
85	-44.315	44.315	-33.616	24.753
86	-38.595	38.595	-24.753	17.034
87	-32.214	32.214	-17.034	10.591
88	-25.177	25.177	-10.591	5.5558
89	-17.486	17.486	-5.5558	2.0587
90	-9.1217	9.1217	-2.0587	0.23438
91	-2.3436	2.3436	-0.23438	-7.28027E-11

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|          PARATIE PLUS 2014 NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Sept23, 2015*          |
|                                                                                                    |
|                               NewProject.BaseDesignSection_25.Nominal_60                            |
|                               Exe Time :29 June 2020      17:50:46                                |
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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 . 4

Tieback_341 :
 ELEMENT TYPE 6 NO.OF ELEMENTS. IN THIS GROUP 1
 C U R R E N T T I M E I S 5.0000

POST-TENSION 2D-BOUNDARY ELEMENT

	EL	FORCE	d0	EDISPL	pl. eps	K	-ve limit	+ve limit	
ANCHOR	1	132.74	-1.34503E-03	1.21484E-02	0.0000	1655.6	0.0000	0.0000	ELASTIC ORIGINAL YOUNG MODU-
LUS									

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|                PARATIE PLUS 2014 NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Sept23, 2015*                |
|                                                                                                                                            |
|                NewProject.BaseDesignSection_25.Nominal_60                                                                              |
|                Exe Time :29 June 2020    17:50:46                                                                                          |
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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 . 5

Tieback_342 :
ELEMENT TYPE 6 NO.OF ELEMENTS. IN THIS GROUP 1
C U R R E N T T I M E I S 5.0000

POST-TENSION 2D-BOUNDARY ELEMENT

	EL	FORCE	d0	EDISPL	pl. eps	K	-ve limit	+ve limit	
ANCHOR	1	125.00	-1.04776E-03	-1.04776E-03	0.0000	0.0000	0.0000	0.0000	BORN NOW JUST ACTIVATED
ITER 0									
		RNORM = 0.000	RMNORM= 0.000						
		RINORM=0.5420E+06	RIMNOR=0.2251E+07						
		RENORM= 5066.	REMNOR=0.1602E-17	RATIO =0.9668E-01	TOLER =0.1000E-03				NOT CONVERGED
		RFMAX = 132.7	RMMAX = 241.5						
		RTSMAL=0.1000E-02	RMSMAL=0.1000E-02						
		RDT =0.5420E+06	RDR =0.2251E+07						
		RATIOT=0.9668E-01	RATIO= 0.000						
		MAX UN= 21.29	IEQ= 107 NODE	54 DOF	1	Y-DISPL.F			
		MIN UN=-.1529E-08	IEQ= 1 NODE	1 DOF	1	Y-DISPL.F			
		NO. OF CONTACT CONSTRAINT VIOLATIONS		0					
ITER 2									
		RNORM = 0.000	RMNORM= 0.000						
		RINORM=0.5420E+06	RIMNOR=0.2251E+07						
		RENORM= 601.6	REMNOR=0.5531E-17	RATIO =0.3332E-01	TOLER =0.1000E-03				NOT CONVERGED
		RFMAX = 132.7	RMMAX = 241.5						
		RTSMAL=0.1000E-02	RMSMAL=0.1000E-02						
		RDT =0.5420E+06	RDR =0.2251E+07						
		RATIOT=0.3332E-01	RATIO= 0.000						
		MAX UN= 4.271	IEQ= 45 NODE	23 DOF	1	Y-DISPL.F			
		MIN UN=-.3593E-08	IEQ= 181 NODE	91 DOF	1	Y-DISPL.F			
		NO. OF CONTACT CONSTRAINT VIOLATIONS		0					
ITER 3									
		RNORM = 0.000	RMNORM= 0.000						
		RINORM=0.5420E+06	RIMNOR=0.2251E+07						
		RENORM= 1122.	REMNOR=0.1425E-15	RATIO =0.4550E-01	TOLER =0.1000E-03				NOT CONVERGED
		RFMAX = 132.7	RMMAX = 241.5						
		RTSMAL=0.1000E-02	RMSMAL=0.1000E-02						
		RDT =0.5420E+06	RDR =0.2251E+07						
		RATIOT=0.4550E-01	RATIO= 0.000						
		MAX UN= 22.29	IEQ= 133 NODE	67 DOF	1	Y-DISPL.F			
		MIN UN=-2.952	IEQ= 179 NODE	90 DOF	1	Y-DISPL.F			
		NO. OF CONTACT CONSTRAINT VIOLATIONS		0					
ITER 4									
		RNORM = 0.000	RMNORM= 0.000						
		RINORM=0.5420E+06	RIMNOR=0.2251E+07						
		RENORM= 10.19	REMNOR=0.5336E-16	RATIO =0.4337E-02	TOLER =0.1000E-03				NOT CONVERGED
		RFMAX = 132.7	RMMAX = 241.5						
		RTSMAL=0.1000E-02	RMSMAL=0.1000E-02						
		RDT =0.5420E+06	RDR =0.2251E+07						
		RATIOT=0.4337E-02	RATIO= 0.000						
		MAX UN= 2.691	IEQ= 149 NODE	75 DOF	1	Y-DISPL.F			
		MIN UN=-.2433	IEQ= 169 NODE	85 DOF	1	Y-DISPL.F			
		NO. OF CONTACT CONSTRAINT VIOLATIONS		0					
ITER 5									
		RNORM = 0.000	RMNORM= 0.000						
		RINORM=0.5420E+06	RIMNOR=0.2251E+07						
		RENORM=0.1799E-02	REMNOR=0.3102E-16	RATIO =0.5761E-04	TOLER =0.1000E-03				CONVERGED !
		RFMAX = 132.7	RMMAX = 241.5						
		RTSMAL=0.1000E-02	RMSMAL=0.1000E-02						
		RDT =0.5420E+06	RDR =0.2251E+07						
		RATIOT=0.5761E-04	RATIO= 0.000						
		MAX UN=0.2376E-07	IEQ= 25 NODE	13 DOF	1	Y-DISPL.F			
		MIN UN=-.2925E-01	IEQ= 173 NODE	87 DOF	1	Y-DISPL.F			
		NO. OF CONTACT CONSTRAINT VIOLATIONS		0					

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|                PARATIE PLUS 2014 NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Sept23, 2015*                |
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|                NewProject.BaseDesignSection_25.Nominal_60                                                                              |
|                Exe Time :29 June 2020      17:50:46                                                                              |
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New Project
SOLUTION REACHED USING 5 ITERATIONS ON 40

PRINT OUT FOR TIME STEP 6 (AT TIME 6.000)

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

	Y-DISPL.F (02)	X-ROT. F (04)	(
1	8.0036682E-02	-5.2098738E-03	
2	7.8994708E-02	-5.2098738E-03	
3	7.7952733E-02	-5.2098663E-03	
4	7.6910763E-02	-5.2098284E-03	
5	7.5868807E-02	-5.2097222E-03	
6	7.4826881E-02	-5.2094948E-03	
7	7.3785020E-02	-5.2090779E-03	
8	7.2743268E-02	-5.2083881E-03	
9	7.1701690E-02	-5.2073268E-03	
10	7.0660370E-02	-5.2057803E-03	
11	6.9619419E-02	-5.2036199E-03	
12	6.8578973E-02	-5.2007013E-03	
13	6.7539199E-02	-5.1968655E-03	
14	6.6500300E-02	-5.1919381E-03	
15	6.5462510E-02	-5.1857294E-03	
16	6.4426107E-02	-5.1780349E-03	
17	6.3391410E-02	-5.1686347E-03	
18	6.2358783E-02	-5.1572937E-03	
19	6.1328639E-02	-5.1437617E-03	
20	6.0301442E-02	-5.1277734E-03	
21	5.9277712E-02	-5.1090483E-03	
22	5.8767324E-02	-5.0985877E-03	
23	5.7749667E-02	-5.0785102E-03	
24	5.6735713E-02	-5.0615292E-03	
25	5.5724863E-02	-5.0474367E-03	
26	5.4716560E-02	-5.0360149E-03	
27	5.3710294E-02	-5.0270356E-03	
28	5.2705599E-02	-5.0202605E-03	
29	5.1702060E-02	-5.0154409E-03	
30	5.0699310E-02	-5.0123183E-03	
31	4.9697037E-02	-5.0106237E-03	
32	4.8694984E-02	-5.0100782E-03	
33	4.7692948E-02	-5.0103923E-03	
34	4.6690789E-02	-5.0112668E-03	
35	4.5688425E-02	-5.0123920E-03	
36	4.4685837E-02	-5.0134481E-03	
37	4.3683077E-02	-5.0141052E-03	
38	4.2680249E-02	-5.0140230E-03	
39	4.1677541E-02	-5.0128513E-03	
40	4.0675206E-02	-5.0102294E-03	
41	3.9673570E-02	-5.0057867E-03	
42	3.8673033E-02	-4.9991421E-03	
43	3.7673896E-02	-4.9926878E-03	
44	3.6675786E-02	-4.9888053E-03	
45	3.5678235E-02	-4.9870833E-03	
46	3.4680842E-02	-4.9871000E-03	
47	3.3683308E-02	-4.9884235E-03	
48	3.2685415E-02	-4.9906116E-03	
49	3.1687036E-02	-4.9932121E-03	
50	3.0688138E-02	-4.9957625E-03	
51	2.9688770E-02	-4.9977901E-03	
52	2.8689089E-02	-4.9988119E-03	
53	2.7689346E-02	-4.9983348E-03	
54	2.6689889E-02	-4.9958555E-03	
55	2.5691171E-02	-4.9908605E-03	
56	2.4693743E-02	-4.9828878E-03	
57	2.3698239E-02	-4.9715665E-03	
58	2.2705365E-02	-4.9565951E-03	
59	2.1715865E-02	-4.9377405E-03	
60	2.0730538E-02	-4.9148391E-03	
61	1.9750205E-02	-4.8877961E-03	
62	1.8775683E-02	-4.8565851E-03	
63	1.7807832E-02	-4.8212503E-03	
64	1.6847451E-02	-4.7819034E-03	
65	1.5895326E-02	-4.7387255E-03	
66	1.4952199E-02	-4.6919669E-03	
67	1.4018756E-02	-4.6419467E-03	
68	1.3095612E-02	-4.5890529E-03	
69	1.2183296E-02	-4.5337427E-03	
70	1.1282241E-02	-4.4765421E-03	
71	1.0392810E-02	-4.4180493E-03	
72	9.5151098E-03	-4.3588979E-03	
73	8.6492522E-03	-4.2997258E-03	
74	7.7951805E-03	-4.2411377E-03	

75 6.9527198E-03 -4.1837091E-03
76 6.1215832E-03 -4.1279864E-03
77 5.3013770E-03 -4.0744877E-03
78 4.4915999E-03 -4.0238126E-03
79 3.6916216E-03 -3.9765931E-03
80 2.9006985E-03 -3.9333350E-03
81 2.1179979E-03 -3.8944218E-03
82 1.3426224E-03 -3.8601197E-03
83 5.7363265E-04 -3.8305791E-03
84 -1.8992906E-04 -3.8058358E-03
85 -9.4901598E-04 -3.7858072E-03
86 -1.7045523E-03 -3.7702838E-03
87 -2.4574073E-03 -3.7589270E-03
88 -3.2083696E-03 -3.7512675E-03
89 -3.9581209E-03 -3.7467067E-03
90 -4.7072104E-03 -3.7445185E-03
91 -5.4560295E-03 -3.7438495E-03
92 -5.8304496E-03 -3.7438149E-03


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|                PARATIE PLUS 2014 NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Sept23, 2015*                |
|                                                                                                                                            |
|                NewProject.BaseDesignSection_25.Nominal_60                                                                              |
|                Exe Time :29 June 2020    17:50:46                                                                                          |
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New Project

STRESS RESULTS FOR GROUP NO. 1

0_L :
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 92
CURRENT TIME IS 6.0000

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 LAYER	MAX-H-P	STATE	STIFFNESS	Z-LEVEL	PORE	E FAC-
1 D	0.000	-8.0037E-02	0.000	0.000	0.000	0.000	ACTIVE	0.000	2.000	0.000	
1.000	1.000	0.000	0.000	0.000	FRANA_334_8_L_0						
2 D	0.4880	-7.8995E-02	4.000	2.440	4.000	3.032	ACTIVE	0.000	1.800	0.000	
1.000	1.000	2.440	0.000	0.000	FRANA_334_8_L_0						
3 D	0.9760	-7.7953E-02	8.000	4.880	8.000	6.064	ACTIVE	0.000	1.600	0.000	
1.000	1.000	4.880	0.000	0.000	FRANA_334_8_L_0						
4 D	1.464	-7.6911E-02	12.00	7.320	12.00	9.096	ACTIVE	0.000	1.400	0.000	
1.000	1.000	7.320	0.000	0.000	FRANA_334_8_L_0						
5 D	1.952	-7.5869E-02	16.00	9.760	16.00	12.13	ACTIVE	0.000	1.200	0.000	
1.000	1.000	9.760	0.000	0.000	FRANA_334_8_L_0						
6 D	2.440	-7.4827E-02	20.00	12.20	20.00	15.16	ACTIVE	0.000	1.000	0.000	
1.000	1.000	12.20	0.000	0.000	FRANA_334_8_L_0						
7 D	2.928	-7.3785E-02	24.00	14.64	24.00	18.19	ACTIVE	0.000	0.8000	0.000	
1.000	1.000	14.64	0.000	0.000	FRANA_334_8_L_0						
8 D	3.416	-7.2743E-02	28.00	17.08	28.00	21.22	ACTIVE	0.000	0.6000	0.000	
1.000	1.000	17.08	0.000	0.000	FRANA_334_8_L_0						
9 D	3.904	-7.1702E-02	32.00	19.52	32.00	25.58	ACTIVE	0.000	0.4000	0.000	
1.000	1.000	19.52	0.000	0.000	FRANA_334_8_L_0						
10 D	4.392	-7.0660E-02	36.00	21.96	36.00	28.09	ACTIVE	0.000	0.2000	0.000	
1.000	1.000	21.96	0.000	0.000	FRANA_334_8_L_0						
11 D	4.880	-6.9619E-02	40.00	24.40	40.00	30.59	ACTIVE	0.000	-1.4901E-07	0.000	
1.000	1.000	24.40	0.000	0.000	FRANA_334_8_L_0						
12 D	5.368	-6.8579E-02	44.00	26.84	44.00	33.10	ACTIVE	0.000	-0.2000	0.000	
1.000	1.000	26.84	0.000	0.000	FRANA_334_8_L_0						
13 D	5.857	-6.7539E-02	48.00	29.28	48.00	35.61	ACTIVE	0.000	-0.4000	0.000	
1.000	1.000	29.28	0.000	0.000	FRANA_334_8_L_0						
14 D	6.345	-6.6500E-02	52.01	31.72	52.01	38.12	ACTIVE	0.000	-0.6000	0.000	
1.000	1.000	31.72	0.000	0.000	FRANA_334_8_L_0						
15 D	6.833	-6.5463E-02	56.01	34.16	56.01	40.63	ACTIVE	0.000	-0.8000	0.000	
1.000	1.000	34.16	0.000	0.000	FRANA_334_8_L_0						
16 D	7.321	-6.4426E-02	60.01	36.61	60.01	43.14	ACTIVE	0.000	-1.000	0.000	
1.000	1.000	36.61	0.000	0.000	FRANA_334_8_L_0						
17 D	7.809	-6.3391E-02	64.01	39.05	64.01	45.65	ACTIVE	0.000	-1.200	0.000	
1.000	1.000	39.05	0.000	0.000	FRANA_334_8_L_0						
18 D	8.298	-6.2359E-02	68.01	41.49	68.01	48.16	ACTIVE	0.000	-1.400	0.000	
1.000	1.000	41.49	0.000	0.000	FRANA_334_8_L_0						
19 D	8.786	-6.1329E-02	72.02	43.93	72.02	50.67	ACTIVE	0.000	-1.600	0.000	
1.000	1.000	43.93	0.000	0.000	FRANA_334_8_L_0						
20 D	9.274	-6.0301E-02	76.02	46.37	76.02	53.17	ACTIVE	0.000	-1.800	0.000	
1.000	1.000	46.37	0.000	0.000	FRANA_334_8_L_0						
21 D	4.526	-5.9278E-02	80.02	30.17	80.02	45.40	ACTIVE	0.000	-2.000	0.000	
1.000	1.000	30.17	0.000	0.000	BNA3(2)_335_337_L_0						
22 D	4.648	-5.8767E-02	82.02	30.99	82.02	46.18	ACTIVE	0.000	-2.100	0.000	
1.000	1.000	30.99	0.000	0.000	BNA3(2)_335_337_L_0						
23 D	6.525	-5.7750E-02	86.03	32.63	86.03	48.08	ACTIVE	0.000	-2.300	0.000	
1.000	1.000	32.63	0.000	0.000	BNA3(2)_335_337_L_0						
24 D	6.853	-5.6736E-02	90.03	34.26	90.03	49.98	ACTIVE	0.000	-2.500	0.000	
1.000	1.000	34.26	0.000	0.000	BNA3(2)_335_337_L_0						
25 D	7.180	-5.5725E-02	94.03	35.90	94.03	51.88	ACTIVE	0.000	-2.700	0.000	
1.000	1.000	35.90	0.000	0.000	BNA3(2)_335_337_L_0						
26 D	7.508	-5.4717E-02	98.04	37.54	98.04	53.77	ACTIVE	0.000	-2.900	0.000	
1.000	1.000	37.54	0.000	0.000	BNA3(2)_335_337_L_0						
27 D	7.836	-5.3710E-02	102.0	39.18	102.0	55.66	ACTIVE	0.000	-3.100	0.000	
1.000	1.000	39.18	0.000	0.000	BNA3(2)_335_337_L_0						
28 D	8.163	-5.2706E-02	106.0	40.82	106.0	57.54	ACTIVE	0.000	-3.300	0.000	
1.000	1.000	40.82	0.000	0.000	BNA3(2)_335_337_L_0						
29 D	8.491	-5.1702E-02	110.1	42.45	110.1	59.41	ACTIVE	0.000	-3.500	0.000	
1.000	1.000	42.45	0.000	0.000	BNA3(2)_335_337_L_0						
30 D	8.818	-5.0699E-02	114.1	44.09	114.1	61.26	ACTIVE	0.000	-3.700	0.000	
1.000	1.000	44.09	0.000	0.000	BNA3(2)_335_337_L_0						
31 D	9.146	-4.9697E-02	118.1	45.73	118.1	63.11	ACTIVE	0.000	-3.900	0.000	
1.000	1.000	45.73	0.000	0.000	BNA3(2)_335_337_L_0						
32 D	9.474	-4.8695E-02	122.1	47.37	122.1	64.94	ACTIVE	0.000	-4.100	0.000	
1.000	1.000	47.37	0.000	0.000	BNA3(2)_335_337_L_0						
33 D	9.802	-4.7693E-02	126.1	49.01	126.1	66.76	ACTIVE	0.000	-4.300	0.000	
1.000	1.000	49.01	0.000	0.000	BNA3(2)_335_337_L_0						

34 D	10.13	-4.6691E-02	130.1	50.65	130.1	68.55	ACTIVE	0.000	-4.500	0.000
1.000	1.000	50.65	0.000	0.000	BNA3(2)_335_337_L_0					
35 D	10.46	-4.5688E-02	134.1	52.29	134.1	70.33	ACTIVE	0.000	-4.700	0.000
1.000	1.000	52.29	0.000	0.000	BNA3(2)_335_337_L_0					
36 D	10.79	-4.4686E-02	138.1	53.93	138.1	72.07	ACTIVE	0.000	-4.900	0.000
1.000	1.000	53.93	0.000	0.000	BNA3(2)_335_337_L_0					
37 D	11.11	-4.3683E-02	142.1	55.57	142.1	73.80	ACTIVE	0.000	-5.100	0.000
1.000	1.000	55.57	0.000	0.000	BNA3(2)_335_337_L_0					
38 D	11.44	-4.2680E-02	146.1	57.21	146.1	75.49	ACTIVE	0.000	-5.300	0.000
1.000	1.000	57.21	0.000	0.000	BNA3(2)_335_337_L_0					
39 D	11.77	-4.1678E-02	150.1	58.85	150.1	77.14	ACTIVE	0.000	-5.500	0.000
1.000	1.000	58.85	0.000	0.000	BNA3(2)_335_337_L_0					
40 D	12.10	-4.0675E-02	154.1	60.49	154.1	78.76	ACTIVE	0.000	-5.700	0.000
1.000	1.000	60.49	0.000	0.000	BNA3(2)_335_337_L_0					
41 D	12.43	-3.9674E-02	158.2	62.13	158.2	80.33	ACTIVE	0.000	-5.900	0.000
1.000	1.000	62.13	0.000	0.000	BNA3(2)_335_337_L_0					
42 D	12.75	-3.8673E-02	162.2	63.77	162.2	81.86	ACTIVE	0.000	-6.100	0.000
1.000	1.000	63.77	0.000	0.000	BNA3(2)_335_337_L_0					
43 D	13.08	-3.7674E-02	166.2	65.41	166.2	83.34	ACTIVE	0.000	-6.300	0.000
1.000	1.000	65.41	0.000	0.000	BNA3(2)_335_337_L_0					
44 D	13.41	-3.6676E-02	170.2	67.05	170.2	85.68	ACTIVE	0.000	-6.500	0.000
1.000	1.000	67.05	0.000	0.000	BNA3(2)_335_337_L_0					
45 D	13.74	-3.5678E-02	174.2	68.69	174.2	88.09	ACTIVE	0.000	-6.700	0.000
1.000	1.000	68.69	0.000	0.000	BNA3(2)_335_337_L_0					
46 D	14.07	-3.4681E-02	178.2	70.33	178.2	90.50	ACTIVE	0.000	-6.900	0.000
1.000	1.000	70.33	0.000	0.000	BNA3(2)_335_337_L_0					
47 D	14.39	-3.3683E-02	182.2	71.97	182.2	92.90	ACTIVE	0.000	-7.100	0.000
1.000	1.000	71.97	0.000	0.000	BNA3(2)_335_337_L_0					
48 D	14.72	-3.2685E-02	186.2	73.62	186.2	95.31	ACTIVE	0.000	-7.300	0.000
1.000	1.000	73.62	0.000	0.000	BNA3(2)_335_337_L_0					
49 D	15.05	-3.1687E-02	190.3	75.26	190.3	97.71	ACTIVE	0.000	-7.500	0.000
1.000	1.000	75.26	0.000	0.000	BNA3(2)_335_337_L_0					
50 D	15.38	-3.0688E-02	194.3	76.90	194.3	100.1	ACTIVE	0.000	-7.700	0.000
1.000	1.000	76.90	0.000	0.000	BNA3(2)_335_337_L_0					
51 D	15.71	-2.9689E-02	198.3	78.54	198.3	102.7	ACTIVE	0.000	-7.900	0.000
1.000	1.000	78.54	0.000	0.000	BNA3(2)_335_337_L_0					
52 D	16.04	-2.8689E-02	202.3	80.18	202.3	105.5	ACTIVE	0.000	-8.100	0.000
1.000	1.000	80.18	0.000	0.000	BNA3(2)_335_337_L_0					
53 D	16.37	-2.7689E-02	206.3	81.83	206.3	108.3	ACTIVE	0.000	-8.300	0.000
1.000	1.000	81.83	0.000	0.000	BNA3(2)_335_337_L_0					
54 D	16.69	-2.6690E-02	210.3	83.47	210.3	111.0	ACTIVE	0.000	-8.500	0.000
1.000	1.000	83.47	0.000	0.000	BNA3(2)_335_337_L_0					
55 D	17.02	-2.5691E-02	214.4	85.11	214.4	113.7	ACTIVE	0.000	-8.700	0.000
1.000	1.000	85.11	0.000	0.000	BNA3(2)_335_337_L_0					
56 D	17.35	-2.4694E-02	218.4	86.76	218.4	116.3	ACTIVE	0.000	-8.900	0.000
1.000	1.000	86.76	0.000	0.000	BNA3(2)_335_337_L_0					
57 D	17.68	-2.3698E-02	222.4	88.40	222.4	118.9	ACTIVE	0.000	-9.100	0.000
1.000	1.000	88.40	0.000	0.000	BNA3(2)_335_337_L_0					
58 D	18.01	-2.2705E-02	226.4	90.05	226.4	121.5	ACTIVE	0.000	-9.300	0.000
1.000	1.000	90.05	0.000	0.000	BNA3(2)_335_337_L_0					
59 D	18.34	-2.1716E-02	230.4	91.69	230.4	124.1	ACTIVE	0.000	-9.500	0.000
1.000	1.000	91.69	0.000	0.000	BNA3(2)_335_337_L_0					
60 D	18.67	-2.0731E-02	234.5	93.33	234.5	126.6	ACTIVE	0.000	-9.700	0.000
1.000	1.000	93.33	0.000	0.000	BNA3(2)_335_337_L_0					
61 D	19.00	-1.9750E-02	238.5	94.98	238.5	129.1	ACTIVE	0.000	-9.900	0.000
1.000	1.000	94.98	0.000	0.000	BNA3(2)_335_337_L_0					
62 D	19.32	-1.8776E-02	242.5	96.62	242.5	131.6	ACTIVE	0.000	-10.10	0.000
1.000	1.000	96.62	0.000	0.000	BNA3(2)_335_337_L_0					
63 D	19.65	-1.7808E-02	246.5	98.27	246.5	134.0	ACTIVE	0.000	-10.30	0.000
1.000	1.000	98.27	0.000	0.000	BNA3(2)_335_337_L_0					
64 D	19.98	-1.6847E-02	250.5	99.91	250.5	136.5	ACTIVE	0.000	-10.50	0.000
1.000	1.000	99.91	0.000	0.000	BNA3(2)_335_337_L_0					
65 D	20.31	-1.5895E-02	254.6	101.6	254.6	138.9	ACTIVE	0.000	-10.70	0.000
1.000	1.000	101.6	0.000	0.000	BNA3(2)_335_337_L_0					
66 D	20.64	-1.4952E-02	258.6	103.2	258.6	141.2	ACTIVE	0.000	-10.90	0.000
1.000	1.000	103.2	0.000	0.000	BNA3(2)_335_337_L_0					
67 D	20.97	-1.4019E-02	262.6	104.8	262.6	143.6	ACTIVE	0.000	-11.10	0.000
1.000	1.000	104.8	0.000	0.000	BNA3(2)_335_337_L_0					
68 D	21.30	-1.3096E-02	266.6	106.5	266.6	145.9	ACTIVE	0.000	-11.30	0.000
1.000	1.000	106.5	0.000	0.000	BNA3(2)_335_337_L_0					
69 D	21.63	-1.2183E-02	270.7	108.1	270.7	148.2	ACTIVE	0.000	-11.50	0.000
1.000	1.000	108.1	0.000	0.000	BNA3(2)_335_337_L_0					
70 D	21.96	-1.1282E-02	274.7	109.8	274.7	150.5	ACTIVE	0.000	-11.70	0.000
1.000	1.000	109.8	0.000	0.000	BNA3(2)_335_337_L_0					
71 D	22.29	-1.0393E-02	278.7	111.4	278.7	152.8	ACTIVE	0.000	-11.90	0.000
1.000	1.000	111.4	0.000	0.000	BNA3(2)_335_337_L_0					
72 D	22.62	-9.5151E-03	282.7	113.1	282.7	157.2	ACTIVE	0.000	-12.10	0.000
1.000	1.000	113.1	0.000	0.000	BNA3(2)_335_337_L_0					
73 D	22.95	-8.6493E-03	286.8	114.7	286.8	161.7	ACTIVE	0.000	-12.30	0.000
1.000	1.000	114.7	0.000	0.000	BNA3(2)_335_337_L_0					
74 D	23.28	-7.7952E-03	290.8	116.4	290.8	166.2	ACTIVE	0.000	-12.50	0.000
1.000	1.000	116.4	0.000	0.000	BNA3(2)_335_337_L_0					
75 D	23.60	-6.9527E-03	294.8	118.0	294.8	170.6	ACTIVE	0.000	-12.70	0.000
1.000	1.000	118.0	0.000	0.000	BNA3(2)_335_337_L_0					
76 D	23.93	-6.1216E-03	298.8	119.7	298.8	175.0	ACTIVE	0.000	-12.90	0.000
1.000	1.000	119.7	0.000	0.000	BNA3(2)_335_337_L_0					
77 D	25.14	-5.3014E-03	302.9	125.7	302.9	199.1	UL-RL	1.4415E+04	-13.10	0.000
1.000	1.000	125.7	0.000	0.000	BNA3(3)_336_338_L_0					
78 D	28.09	-4.4916E-03	306.9	140.4	306.9	204.4	UL-RL	1.4415E+04	-13.30	0.000
1.000	1.000	140.4	0.000	0.000	BNA3(3)_336_338_L_0					
79 D	31.01	-3.6916E-03	310.9	155.0	310.9	209.5	UL-RL	1.4415E+04	-13.50	0.000
1.000	1.000	155.0	0.000	0.000	BNA3(3)_336_338_L_0					

80 D	33.72	-2.9007E-03	315.0	168.6	315.0	213.8	UL-RL	1.4415E+04	-13.70	0.000
1.000	1.000	168.6	0.000	0.000	BNA3(3)_336_338_L_0					
81 D	36.38	-2.1180E-03	319.0	181.9	319.0	217.8	UL-RL	1.4415E+04	-13.90	0.000
1.000	1.000	181.9	0.000	0.000	BNA3(3)_336_338_L_0					
82 D	39.01	-1.3426E-03	323.0	195.1	323.0	221.8	UL-RL	1.4415E+04	-14.10	0.000
1.000	1.000	195.1	0.000	0.000	BNA3(3)_336_338_L_0					
83 D	41.63	-5.7363E-04	327.1	208.1	327.1	225.8	UL-RL	1.4415E+04	-14.30	0.000
1.000	1.000	208.1	0.000	0.000	BNA3(3)_336_338_L_0					
84 D	44.22	1.8993E-04	331.1	221.1	331.1	229.7	UL-RL	1.4415E+04	-14.50	0.000
1.000	1.000	221.1	0.000	0.000	BNA3(3)_336_338_L_0					
85 D	46.48	9.4902E-04	335.1	232.4	335.1	236.2	UL-RL	1.4415E+04	-14.70	0.000
1.000	1.000	232.4	0.000	0.000	BNA3(3)_336_338_L_0					
86 D	48.52	1.7046E-03	339.2	242.6	339.2	244.5	UL-RL	1.4415E+04	-14.90	0.000
1.000	1.000	242.6	0.000	0.000	BNA3(3)_336_338_L_0					
87 D	50.53	2.4574E-03	343.2	252.6	343.2	253.0	UL-RL	1.4415E+04	-15.10	0.000
1.000	1.000	252.6	0.000	0.000	BNA3(3)_336_338_L_0					
88 D	52.42	3.2084E-03	347.2	262.1	347.2	262.4	UL-RL	1.4415E+04	-15.30	0.000
1.000	1.000	262.1	0.000	0.000	BNA3(3)_336_338_L_0					
89 D	54.31	3.9581E-03	351.2	271.6	351.2	271.8	UL-RL	1.4415E+04	-15.50	0.000
1.000	1.000	271.6	0.000	0.000	BNA3(3)_336_338_L_0					
90 D	56.20	4.7072E-03	355.3	281.0	355.3	281.2	UL-RL	1.4415E+04	-15.70	0.000
1.000	1.000	281.0	0.000	0.000	BNA3(3)_336_338_L_0					
91 D	43.57	5.4560E-03	359.3	290.5	359.3	290.5	UL-RL	1.4415E+04	-15.90	0.000
1.000	1.000	290.5	0.000	0.000	BNA3(3)_336_338_L_0					
92 D	14.76	5.8304E-03	361.3	295.2	361.3	295.2	UL-RL	1.4415E+04	-16.00	0.000
1.000	1.000	295.2	0.000	0.000	BNA3(3)_336_338_L_0					

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|                PARATIE PLUS 2014 NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Sept23, 2015*                |
|                                                                                                                    |
|                NewProject.BaseDesignSection_25.Nominal_60                                                         |
|                Exe Time :29 June 2020      17:50:46                                                                |
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New Project

STRESS RESULTS FOR GROUP NO. 2

0_R :
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 92
CURRENT TIME IS 6.0000

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 LAYER	MAX-H-P	STATE	STIFFNESS	Z-LEVEL	PORE	E FAC-
1	0.000	--	--	--	--	--	REMOVED	--	2.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
2	0.000	--	--	--	--	--	REMOVED	--	1.800	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
3	0.000	--	--	--	--	--	REMOVED	--	1.600	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
4	0.000	--	--	--	--	--	REMOVED	--	1.400	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
5	0.000	--	--	--	--	--	REMOVED	--	1.200	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
6	0.000	--	--	--	--	--	REMOVED	--	1.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
7	0.000	--	--	--	--	--	REMOVED	--	0.8000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
8	0.000	--	--	--	--	--	REMOVED	--	0.6000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
9	0.000	--	--	--	--	--	REMOVED	--	0.4000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
10	0.000	--	--	--	--	--	REMOVED	--	0.2000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
11	0.000	--	--	--	--	--	REMOVED	--	-1.4901E-07	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
12	0.000	--	--	--	--	--	REMOVED	--	-0.2000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
13	0.000	--	--	--	--	--	REMOVED	--	-0.4000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
14	0.000	--	--	--	--	--	REMOVED	--	-0.6000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
15	0.000	--	--	--	--	--	REMOVED	--	-0.8000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
16	0.000	--	--	--	--	--	REMOVED	--	-1.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
17	0.000	--	--	--	--	--	REMOVED	--	-1.200	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
18	0.000	--	--	--	--	--	REMOVED	--	-1.400	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
19	0.000	--	--	--	--	--	REMOVED	--	-1.600	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
20	0.000	--	--	--	--	--	REMOVED	--	-1.800	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
21	0.000	--	--	--	--	--	REMOVED	--	-2.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
22	0.000	--	--	--	--	--	REMOVED	--	-2.100	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
23	0.000	--	--	--	--	--	REMOVED	--	-2.300	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
24	0.000	--	--	--	--	--	REMOVED	--	-2.500	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
25	0.000	--	--	--	--	--	REMOVED	--	-2.700	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
26	0.000	--	--	--	--	--	REMOVED	--	-2.900	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
27	0.000	--	--	--	--	--	REMOVED	--	-3.100	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
28	0.000	--	--	--	--	--	REMOVED	--	-3.300	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
29	0.000	--	--	--	--	--	REMOVED	--	-3.500	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
30	0.000	--	--	--	--	--	REMOVED	--	-3.700	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
31	0.000	--	--	--	--	--	REMOVED	--	-3.900	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
32	0.000	--	--	--	--	--	REMOVED	--	-4.100	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
33	0.000	--	--	--	--	--	REMOVED	--	-4.300	0.000	
1.000	1.000	0.000	0.000	0.000	not available						

34	0.000	--	--	--	--	--	REMOVED	--	-4.500	0.000
1.000	1.000	0.000	0.000	0.000	0.000	not available				
35	0.000	--	--	--	--	--	REMOVED	--	-4.700	0.000
1.000	1.000	0.000	0.000	0.000	0.000	not available				
36	0.000	--	--	--	--	--	REMOVED	--	-4.900	0.000
1.000	1.000	0.000	0.000	0.000	0.000	not available				
37	0.000	--	--	--	--	--	REMOVED	--	-5.100	0.000
1.000	1.000	0.000	0.000	0.000	0.000	not available				
38	0.000	--	--	--	--	--	REMOVED	--	-5.300	0.000
1.000	1.000	0.000	0.000	0.000	0.000	not available				
39	0.000	--	--	--	--	--	REMOVED	--	-5.500	0.000
1.000	1.000	0.000	0.000	0.000	0.000	not available				
40	0.000	--	--	--	--	--	REMOVED	--	-5.700	0.000
1.000	1.000	0.000	0.000	0.000	0.000	not available				
41	0.000	--	--	--	--	--	REMOVED	--	-5.900	0.000
1.000	1.000	0.000	0.000	0.000	0.000	not available				
42	0.000	--	--	--	--	--	REMOVED	--	-6.100	0.000
1.000	1.000	0.000	0.000	0.000	0.000	not available				
43	0.000	--	--	--	--	--	REMOVED	--	-6.300	0.000
1.000	1.000	0.000	0.000	0.000	0.000	not available				
44	0.000	--	--	--	--	--	REMOVED	--	-6.500	0.000
1.000	1.000	0.000	0.000	0.000	0.000	not available				
45	0.000	--	--	--	--	--	REMOVED	--	-6.700	0.000
1.000	1.000	0.000	0.000	0.000	0.000	not available				
46	0.000	--	--	--	--	--	REMOVED	--	-6.900	0.000
1.000	1.000	0.000	0.000	0.000	0.000	not available				
47	0.000	--	--	--	--	--	REMOVED	--	-7.100	0.000
1.000	1.000	0.000	0.000	0.000	0.000	not available				
48	0.000	--	--	--	--	--	REMOVED	--	-7.300	0.000
1.000	1.000	0.000	0.000	0.000	0.000	not available				
49	0.000	--	--	--	--	--	REMOVED	--	-7.500	0.000
1.000	1.000	0.000	0.000	0.000	0.000	not available				
50	0.000	--	--	--	--	--	REMOVED	--	-7.700	0.000
1.000	1.000	0.000	0.000	0.000	0.000	not available				
51	0.000	--	--	--	--	--	REMOVED	--	-7.900	0.000
1.000	1.000	0.000	0.000	0.000	0.000	not available				
52	0.000	--	--	--	--	--	REMOVED	--	-8.100	0.000
1.000	1.000	0.000	0.000	0.000	0.000	not available				
53	0.000	--	--	--	--	--	REMOVED	--	-8.300	0.000
1.000	1.000	0.000	0.000	0.000	0.000	not available				
54	0.000	--	--	--	--	--	REMOVED	--	-8.500	0.000
1.000	1.000	0.000	0.000	0.000	0.000	not available				
55 D	3.978	2.5691E-02	4.000	19.89	184.0	112.1	PASSIVE	0.000	-8.700	0.000
1.000	1.000	19.89	0.000	0.000	BNA3(2)_335_337_L_0					
56 D	6.527	2.4694E-02	8.000	32.64	188.0	121.9	PASSIVE	0.000	-8.900	0.000
1.000	1.000	32.64	0.000	0.000	BNA3(2)_335_337_L_0					
57 D	9.077	2.3698E-02	12.00	45.38	192.0	134.6	PASSIVE	0.000	-9.100	0.000
1.000	1.000	45.38	0.000	0.000	BNA3(2)_335_337_L_0					
58 D	11.63	2.2705E-02	16.00	58.13	196.0	147.4	PASSIVE	0.000	-9.300	0.000
1.000	1.000	58.13	0.000	0.000	BNA3(2)_335_337_L_0					
59 D	14.18	2.1716E-02	20.00	70.88	200.0	149.4	PASSIVE	0.000	-9.500	0.000
1.000	1.000	70.88	0.000	0.000	BNA3(2)_335_337_L_0					
60 D	16.73	2.0731E-02	24.00	83.63	204.0	149.9	PASSIVE	0.000	-9.700	0.000
1.000	1.000	83.63	0.000	0.000	BNA3(2)_335_337_L_0					
61 D	19.28	1.9750E-02	28.00	96.38	208.0	150.4	PASSIVE	0.000	-9.900	0.000
1.000	1.000	96.38	0.000	0.000	BNA3(2)_335_337_L_0					
62 D	21.82	1.8776E-02	32.00	109.1	212.0	151.0	PASSIVE	0.000	-10.10	0.000
1.000	1.000	109.1	0.000	0.000	BNA3(2)_335_337_L_0					
63 D	24.37	1.7808E-02	36.00	121.9	216.0	151.6	PASSIVE	0.000	-10.30	0.000
1.000	1.000	121.9	0.000	0.000	BNA3(2)_335_337_L_0					
64 D	26.92	1.6847E-02	40.00	134.6	220.0	152.3	PASSIVE	0.000	-10.50	0.000
1.000	1.000	134.6	0.000	0.000	BNA3(2)_335_337_L_0					
65 D	29.47	1.5895E-02	44.00	147.4	224.0	153.0	PASSIVE	0.000	-10.70	0.000
1.000	1.000	147.4	0.000	0.000	BNA3(2)_335_337_L_0					
66 D	32.02	1.4952E-02	48.00	160.1	228.0	160.1	PASSIVE	0.000	-10.90	0.000
1.000	1.000	160.1	0.000	0.000	BNA3(2)_335_337_L_0					
67 D	34.57	1.4019E-02	52.00	172.9	232.0	172.9	PASSIVE	0.000	-11.10	0.000
1.000	1.000	172.9	0.000	0.000	BNA3(2)_335_337_L_0					
68 D	37.12	1.3096E-02	56.00	185.6	236.0	185.6	PASSIVE	0.000	-11.30	0.000
1.000	1.000	185.6	0.000	0.000	BNA3(2)_335_337_L_0					
69 D	39.67	1.2183E-02	60.00	198.4	240.0	198.4	PASSIVE	0.000	-11.50	0.000
1.000	1.000	198.4	0.000	0.000	BNA3(2)_335_337_L_0					
70 D	42.22	1.1282E-02	64.00	211.1	244.0	211.1	PASSIVE	0.000	-11.70	0.000
1.000	1.000	211.1	0.000	0.000	BNA3(2)_335_337_L_0					
71 D	43.20	1.0393E-02	68.00	216.0	248.0	216.0	V-C	6395.	-11.90	0.000
1.000	1.000	216.0	0.000	0.000	BNA3(2)_335_337_L_0					
72 D	42.56	9.5151E-03	72.00	212.8	252.0	212.8	V-C	6395.	-12.10	0.000
1.000	1.000	212.8	0.000	0.000	BNA3(2)_335_337_L_0					
73 D	41.94	8.6493E-03	76.00	209.7	256.0	209.7	V-C	6395.	-12.30	0.000
1.000	1.000	209.7	0.000	0.000	BNA3(2)_335_337_L_0					
74 D	41.33	7.7952E-03	80.00	206.6	260.0	206.6	V-C	6395.	-12.50	0.000
1.000	1.000	206.6	0.000	0.000	BNA3(2)_335_337_L_0					
75 D	40.73	6.9527E-03	84.00	203.7	264.0	203.7	V-C	6395.	-12.70	0.000
1.000	1.000	203.7	0.000	0.000	BNA3(2)_335_337_L_0					
76 D	40.15	6.1216E-03	88.00	200.8	268.0	200.8	V-C	6395.	-12.90	0.000
1.000	1.000	200.8	0.000	0.000	BNA3(2)_335_337_L_0					
77 D	47.53	5.3014E-03	92.00	237.6	272.0	237.6	V-C	1.0406E+04	-13.10	0.000
1.000	1.000	237.6	0.000	0.000	BNA3(3)_336_338_L_0					
78 D	46.38	4.4916E-03	96.00	231.9	276.0	231.9	V-C	1.0406E+04	-13.30	0.000
1.000	1.000	231.9	0.000	0.000	BNA3(3)_336_338_L_0					
79 D	45.26	3.6916E-03	100.0	226.3	280.0	226.3	V-C	1.0406E+04	-13.50	0.000
1.000	1.000	226.3	0.000	0.000	BNA3(3)_336_338_L_0					

80 D	44.16	2.9007E-03	104.0	220.8	284.0	220.8	V-C	1.0406E+04	-13.70	0.000
1.000	1.000	220.8	0.000	0.000	BNA3(3)_336_338_L_0					
81 D	43.07	2.1180E-03	108.0	215.4	288.0	215.4	V-C	1.0406E+04	-13.90	0.000
1.000	1.000	215.4	0.000	0.000	BNA3(3)_336_338_L_0					
82 D	42.00	1.3426E-03	112.0	210.0	292.0	210.0	V-C	1.0406E+04	-14.10	0.000
1.000	1.000	210.0	0.000	0.000	BNA3(3)_336_338_L_0					
83 D	40.94	5.7363E-04	116.0	204.7	296.0	204.7	V-C	1.0406E+04	-14.30	0.000
1.000	1.000	204.7	0.000	0.000	BNA3(3)_336_338_L_0					
84 D	39.58	-1.8993E-04	120.0	197.9	300.0	202.1	UL-RL	1.6649E+04	-14.50	0.000
1.000	1.000	197.9	0.000	0.000	BNA3(3)_336_338_L_0					
85 D	37.64	-9.4902E-04	124.0	188.2	304.0	204.4	UL-RL	1.6649E+04	-14.70	0.000
1.000	1.000	188.2	0.000	0.000	BNA3(3)_336_338_L_0					
86 D	35.55	-1.7046E-03	128.0	177.7	307.0	206.4	UL-RL	1.6649E+04	-14.90	0.000
1.000	1.000	177.7	0.000	0.000	BNA3(3)_336_338_L_0					
87 D	33.33	-2.4574E-03	132.0	166.7	309.0	207.8	UL-RL	1.6649E+04	-15.10	0.000
1.000	1.000	166.7	0.000	0.000	BNA3(3)_336_338_L_0					
88 D	31.12	-3.2084E-03	136.0	155.6	311.0	209.1	UL-RL	1.6649E+04	-15.30	0.000
1.000	1.000	155.6	0.000	0.000	BNA3(3)_336_338_L_0					
89 D	28.91	-3.9581E-03	140.0	144.6	313.0	210.4	UL-RL	1.6649E+04	-15.50	0.000
1.000	1.000	144.6	0.000	0.000	BNA3(3)_336_338_L_0					
90 D	26.69	-4.7072E-03	144.0	133.5	315.0	211.9	UL-RL	1.6649E+04	-15.70	0.000
1.000	1.000	133.5	0.000	0.000	BNA3(3)_336_338_L_0					
91 D	18.35	-5.4560E-03	148.0	122.3	317.0	213.4	UL-RL	1.6649E+04	-15.90	0.000
1.000	1.000	122.3	0.000	0.000	BNA3(3)_336_338_L_0					
92 D	5.839	-5.8304E-03	150.0	116.8	318.0	214.2	UL-RL	1.6649E+04	-16.00	0.000
1.000	1.000	116.8	0.000	0.000	BNA3(3)_336_338_L_0					

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|                PARATIE PLUS 2014 NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Sept23, 2015*                |
|                                                                                                                                            |
|                NewProject.BaseDesignSection_25.Nominal_60                                                                              |
|                Exe Time :29 June 2020    17:50:46                                                                                          |
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New Project

STRESS RESULTS FOR GROUP NO. 3

WallElement_30 :
 ELEMENT TYPE 2 NO.OF ELEMENTS. IN THIS GROUP 91
 CURRENT TIME IS 6.0000

WALL2D ELEMENT

EL	TA	TB	MA	MB
1	-4.77513E-09	4.77513E-09	-4.85780E-10	2.56728E-09
2	0.48800	-0.48800	-4.00014E-09	9.76001E-02
3	1.4640	-1.4640	-9.76001E-02	0.39040
4	2.9280	-2.9280	-0.39040	0.97600
5	4.8800	-4.8800	-0.97600	1.9520
6	7.3201	-7.3201	-1.9520	3.4160
7	10.248	-10.248	-3.4160	5.4657
8	13.664	-13.664	-5.4657	8.1985
9	17.568	-17.568	-8.1985	11.712
10	21.961	-21.961	-11.712	16.104
11	26.841	-26.841	-16.104	21.473
12	32.209	-32.209	-21.473	27.914
13	38.066	-38.066	-27.914	35.528
14	44.411	-44.411	-35.528	44.410
15	51.244	-51.244	-44.410	54.658
16	58.565	-58.565	-54.658	66.371
17	66.374	-66.374	-66.371	79.646
18	74.672	-74.672	-79.646	94.581
19	83.458	-83.458	-94.581	111.27
20	92.732	-92.732	-111.27	129.82
21	97.257	-97.257	-129.82	139.54
22	-102.93	102.93	-139.54	118.96
23	-96.406	96.406	-118.96	99.677
24	-89.553	89.553	-99.677	81.766
25	-82.373	82.373	-81.766	65.292
26	-74.865	74.865	-65.292	50.319
27	-67.029	67.029	-50.319	36.913
28	-58.866	58.866	-36.913	25.140
29	-50.375	50.375	-25.140	15.065
30	-41.557	41.557	-15.065	6.7533
31	-32.410	32.410	-6.7533	0.27123
32	-22.937	22.937	-0.27123	-4.3161
33	-13.135	13.135	4.3161	-6.9430
34	-3.0052	3.0052	6.9430	-7.5441
35	7.4522	-7.4522	7.5441	-6.0536
36	18.238	-18.238	6.0536	-2.4062
37	29.351	-29.351	2.4062	3.4640
38	40.792	-40.792	-3.4640	11.622
39	52.561	-52.561	-11.622	22.135
40	64.658	-64.658	-22.135	35.066
41	77.084	-77.084	-35.066	50.483
42	-89.326	89.326	-50.483	32.618
43	-76.244	76.244	-32.618	17.369
44	-62.834	62.834	-17.369	4.8023
45	-49.096	49.096	-4.8023	-5.0169
46	-35.030	35.030	5.0169	-12.023
47	-20.635	20.635	12.023	-16.150
48	-5.9122	5.9122	16.150	-17.332
49	9.1393	-9.1393	17.332	-15.505
50	24.519	-24.519	15.505	-10.601
51	40.228	-40.228	10.601	-2.5552
52	56.264	-56.264	2.5552	8.6977
53	72.630	-72.630	-8.6977	23.224
54	89.324	-89.324	-23.224	41.088
55	102.37	-102.37	-41.088	61.562
56	113.19	-113.19	-61.562	84.201
57	121.80	-121.80	-84.201	108.56
58	128.18	-128.18	-108.56	134.20
59	132.34	-132.34	-134.20	160.66
60	134.28	-134.28	-160.66	187.52
61	134.00	-134.00	-187.52	214.32
62	131.50	-131.50	-214.32	240.62
63	126.78	-126.78	-240.62	265.98
64	119.84	-119.84	-265.98	289.95
65	110.68	-110.68	-289.95	312.08
66	99.295	-99.295	-312.08	331.94
67	85.691	-85.691	-331.94	349.08
68	69.868	-69.868	-349.08	363.05
69	51.824	-51.824	-363.05	373.42
70	31.560	-31.560	-373.42	379.73

71	10.643	-10.643	-379.73	381.86
72	-9.3033	9.3033	-381.86	380.00
73	-28.295	28.295	-380.00	374.34
74	-46.348	46.348	-374.34	365.07
75	-63.475	63.475	-365.07	352.37
76	-79.693	79.693	-352.37	336.43
77	-102.08	102.08	-336.43	316.02
78	-120.38	120.38	-316.02	291.94
79	-134.63	134.63	-291.94	265.02
80	-145.07	145.07	-265.02	236.00
81	-151.77	151.77	-236.00	205.65
82	-154.76	154.76	-205.65	174.69
83	-154.07	154.07	-174.69	143.88
84	-149.44	149.44	-143.88	113.99
85	-140.60	140.60	-113.99	85.873
86	-127.62	127.62	-85.873	60.349
87	-110.40	110.40	-60.349	38.269
88	-89.077	89.077	-38.269	20.453
89	-63.663	63.663	-20.453	7.7206
90	-34.142	34.142	-7.7206	0.89215
91	-8.9206	8.9206	-0.89215	2.78035E-10


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|          PARATIE PLUS 2014 NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Sept23, 2015*          |
|                                                                                                    |
|                               NewProject.BaseDesignSection_25.Nominal_60                          |
|                               Exe Time :29 June 2020      17:50:46                                |
+-----+

```

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 . 4

Tieback_341 :
ELEMENT TYPE 6 NO.OF ELEMENTS. IN THIS GROUP 1
C U R R E N T T I M E I S 6.0000

POST-TENSION 2D-BOUNDARY ELEMENT

	EL	FORCE	d0	EDISPL	pl. eps	K	-ve limit	+ve limit	
ANCHOR	1	204.84	-1.34503E-03	5.56949E-02	0.0000	1655.6	0.0000	0.0000	ELASTIC ORIGINAL YOUNG MODU-
LUS									

```

+-----+
|          PARATIE PLUS 2014 NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Sept23, 2015*          |
|                                                                                                                                            |
|                                                                                                                                            |
|                                                                                                                                            |
|                                                                                                                                            |
|          NewProject.BaseDesignSection_25.Nominal_60                                                                                       |
|          Exe Time :29 June 2020      17:50:46                                                                                             |
+-----+

```

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 . 5

Tieback_342 :
ELEMENT TYPE 6 NO.OF ELEMENTS. IN THIS GROUP 1
C U R R E N T T I M E I S 6.0000

POST-TENSION 2D-BOUNDARY ELEMENT

	EL	FORCE	d0	EDISPL	pl. eps	K	-ve limit	+ve limit	
ANCHOR	1	179.16	-1.04776E-03	2.85510E-02	0.0000	1829.9	0.0000	0.0000	ELASTIC ORIGINAL YOUNG MODU-
LUS									

```

+-----+
|          PARATIE PLUS 2014 NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Sept23, 2015*          |
|                                                                                                    |
|                               NewProject.BaseDesignSection_25.Nominal_60                            |
|                               Exe Time :29 June 2020      17:50:46                                |
+-----+

```

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

END OF PROCESS FOR PROBLEM

New Project
NONLINEAR SOLUTION CPU TIME 0.06 [sec]
DATABASE CREATION CPU TIME..... 0.21 [sec]



Report di Calcolo

Nome Progetto: New Project

Autore: Ingegnere

Jobname: \\SBS2011\Comm\424.01 - HIRPINIA\Ing\03. LAVORO\07 - GALL\GA - FINESTRE - IMBOCCHI\GA13 Finestra F7\PARATIA\sez2\SEZIONE 2 STR Finestra F7 -Trasv_revF.pplus

Data: 29/06/2020 20:56:23

Design Section: Base Design Section

Sommario

Contenuto Sommario

Descrizione della Stratigrafia e degli Strati di Terreno

Tipo : HORIZONTAL
 Quota : 2 m
 OCR : 1

Tipo : HORIZONTAL
 Quota : -2 m
 OCR : 1

Tipo : HORIZONTAL
 Quota : -13 m
 OCR : 1

Tipo : HORIZONTAL
 Quota : -18 m
 OCR : 1

Strato di Terreno	Terreno	γ dry	γ sat	ϕ'	ϕ	c_v	ϕ	c'	Su	Modulo Elastico	Eu	Evc	Eur	Ah	Avexp	Pa	Rur/Rvc	Rvc	Ku	Kvc	Kur		
		kN/m ³	kN/m ³	°	°	°	°	kPa	kPa			kPa	kPa			kPa			kPa	kN/m ³	kN/m ³	kN/m ³	
1	FRANA	20	20	14				0		Constant		15000	24000										
2	BNA3(2)	20	20	30				2.5		Constant		50000	80000										
3	BNA3(3)	20	20	25				30		Constant		75000	120000										
4	BNA3(4)	20	20	32				5		Constant		100000	160000										

Descrizione Pareti

X : 0 m

Quota in alto : 2 m

Quota di fondo : -16 m

Muro di sinistra

Sezione : PALI_Fi1000/1200

Area equivalente : 0.654498469497874 m

Inerzia equivalente : 0.0409 m⁴/m

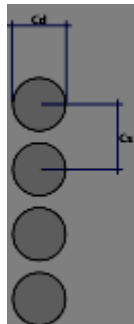
Materiale calcestruzzo : C25/30

Tipo sezione : Tangent

Spaziatura : 1.2 m

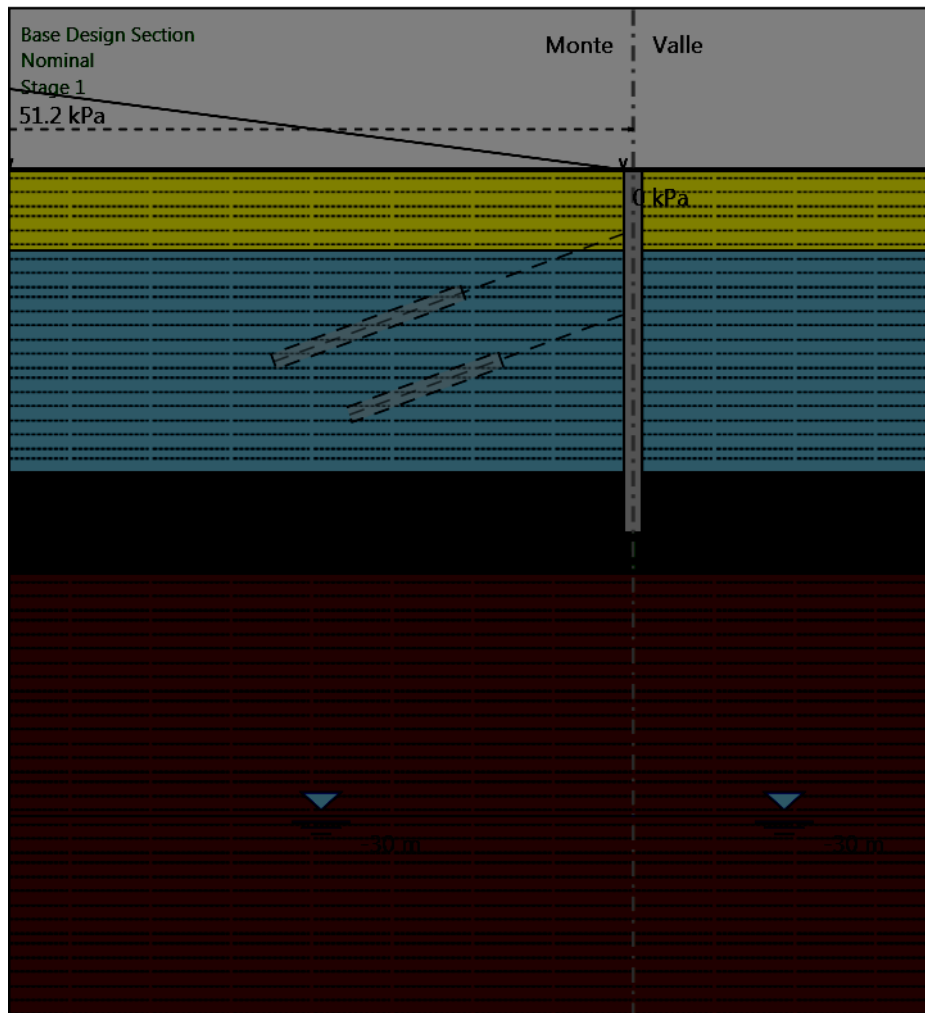
Diametro : 1 m

Efficacia : 1



Fasi di Calcolo

Stage 1



Stage 1

Scavo

Muro di sinistra

Lato monte : 2 m

Lato valle : 2 m

Linea di scavo di sinistra (Orizzontale)

2 m

Linea di scavo di destra (Orizzontale)

2 m

Falda acquifera

Falda di sinistra : -30 m

Falda di destra : -30 m

Carichi

Carico lineare in superficie : SurfaceSurcharge

X iniziale : -0.5 m

X finale : -31 m

Pressione iniziale : 0 kPa

Pressione finale : 51.2 kPa

Elementi strutturali

Paratia : WallElement

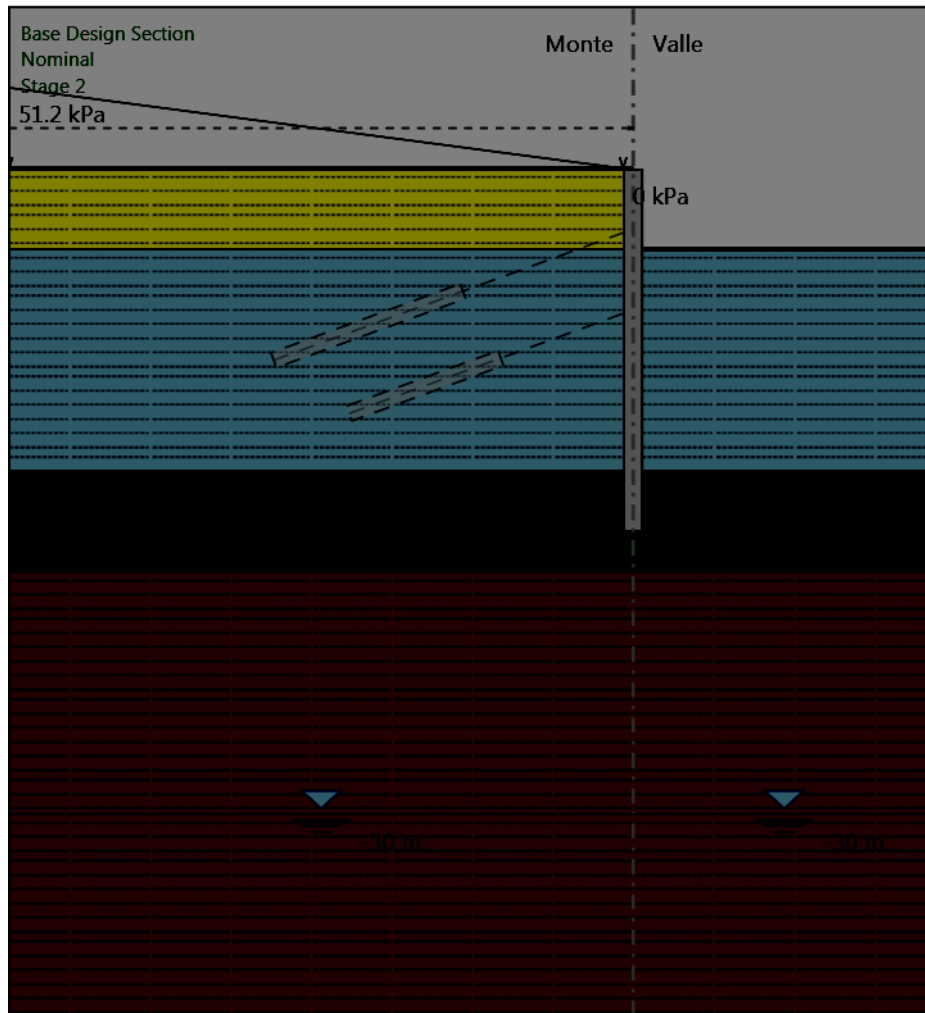
X : 0 m

Quota in alto : 2 m

Quota di fondo : -16 m

Sezione : PALI_Fi1000/1200

Stage 2



Stage 2

Scavo

Muro di sinistra

Lato monte : 2 m

Lato valle : -2 m

Linea di scavo di sinistra (Orizzontale)

2 m

Linea di scavo di destra (Orizzontale)

-2 m

Falda acquifera

Falda di sinistra : -30 m

Falda di destra : -30 m

Carichi

Carico lineare in superficie : SurfaceSurcharge

X iniziale : -0.5 m

X finale : -31 m

Pressione iniziale : 0 kPa

Pressione finale : 51.2 kPa

Elementi strutturali

Paratia : WallElement

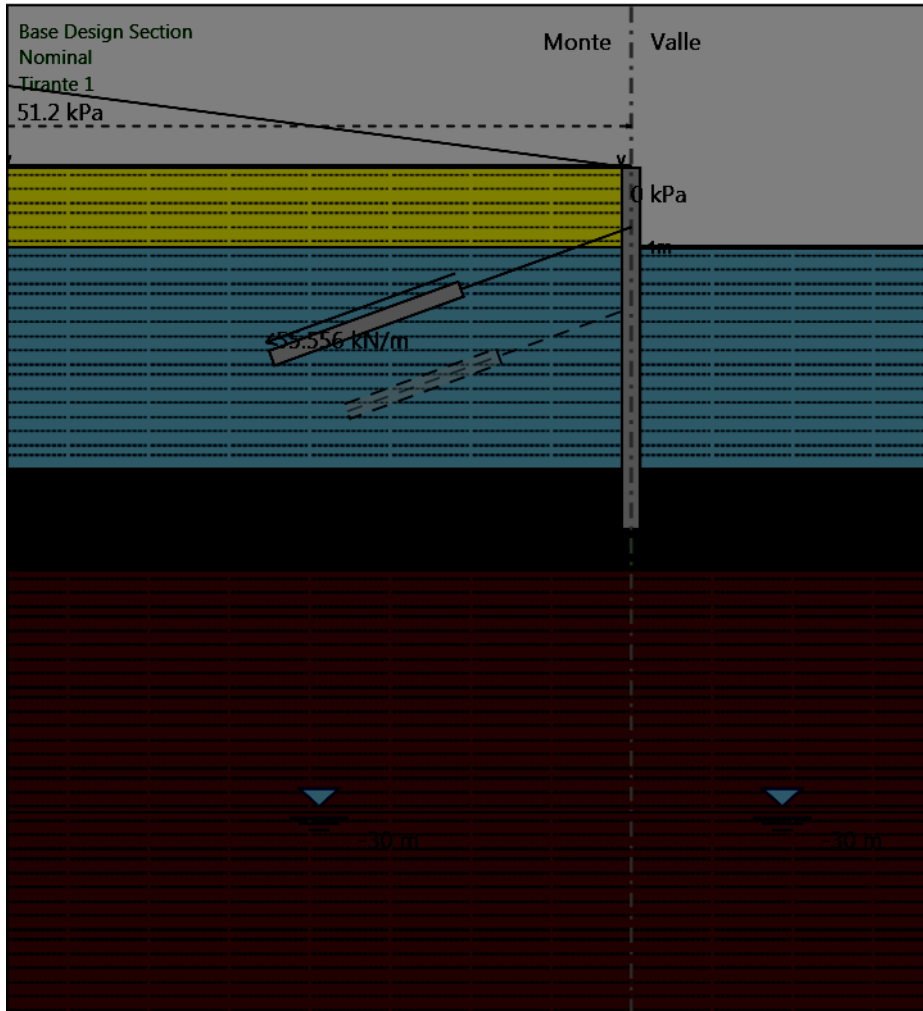
X : 0 m

Quota in alto : 2 m

Quota di fondo : -16 m

Sezione : PALI_Fi1000/1200

Tirante 1



Tirante 1

Scavo

Muro di sinistra

Lato monte : 2 m

Lato valle : -2 m

Linea di scavo di sinistra (Orizzontale)

2 m

Linea di scavo di destra (Orizzontale)

-2 m

Falda acquifera

Falda di sinistra : -30 m

Falda di destra : -30 m

Carichi

Carico lineare in superficie : SurfaceSurcharge

X iniziale : -0.5 m

X finale : -31 m

Pressione iniziale : 0 kPa

Pressione finale : 51.2 kPa

Elementi strutturali

Paratia : WallElement

X : 0 m

Quota in alto : 2 m

Quota di fondo : -16 m

Sezione : PALI_Fi1000/1200

Tirante : Tieback

X : 0 m

Z : -1 m

Lunghezza bulbo : 10 m

Diametro bulbo : 0.14 m

Lunghezza libera : 9 m

Precarico : 200 kN

Angolo : 20 °

Sezione : Trefoli 3

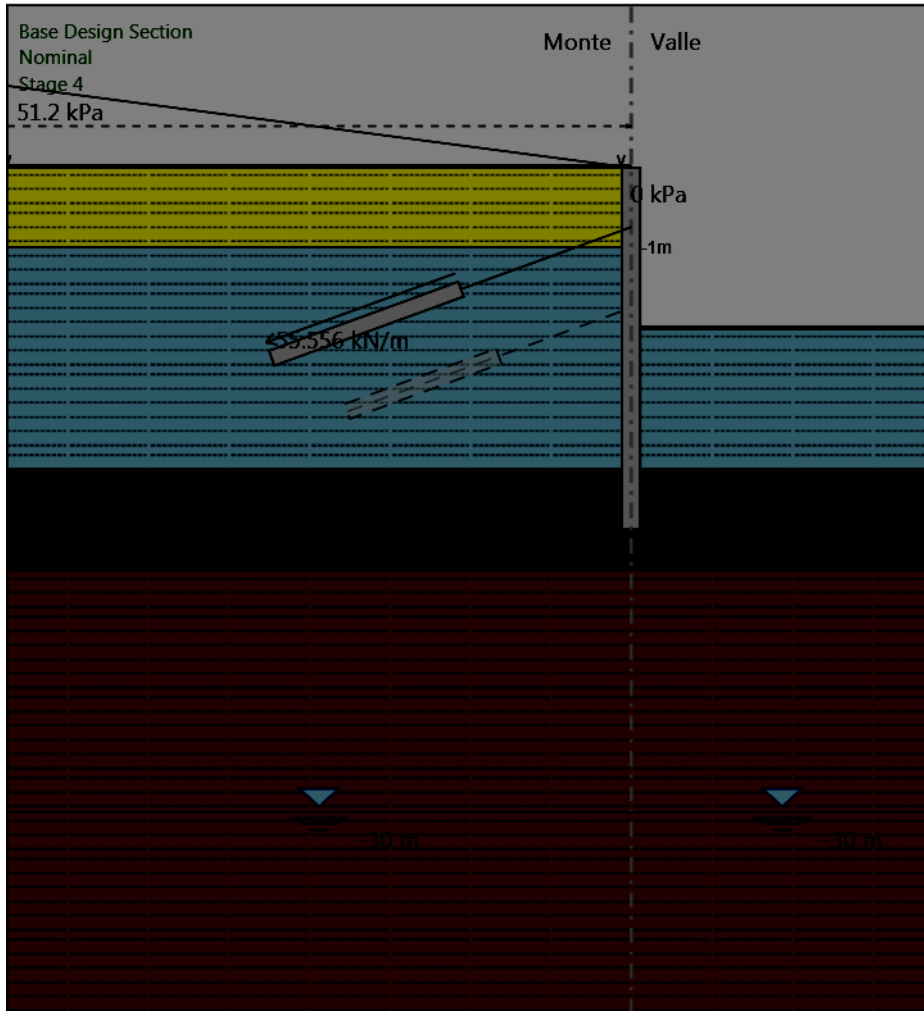
Tipo di barre : Barre trefoli

Numero di barre : 3

Diametro : 0.01331 m

Area : 0.000417 m²

Stage 4



Stage 4

Scavo

Muro di sinistra

Lato monte : 2 m

Lato valle : -6 m

Linea di scavo di sinistra (Orizzontale)

2 m

Linea di scavo di destra (Orizzontale)

-6 m

Falda acquifera

Falda di sinistra : -30 m

Falda di destra : -30 m

Carichi

Carico lineare in superficie : SurfaceSurcharge

X iniziale : -0.5 m

X finale : -31 m

Pressione iniziale : 0 kPa

Pressione finale : 51.2 kPa

Elementi strutturali

Paratia : WallElement

X : 0 m

Quota in alto : 2 m

Quota di fondo : -16 m

Sezione : PALI_Fi1000/1200

Tirante : Tieback

X : 0 m

Z : -1 m

Lunghezza bulbo : 10 m

Diametro bulbo : 0.14 m

Lunghezza libera : 9 m

Precarico : 200 kN

Angolo : 20 °

Sezione : Trefoli 3

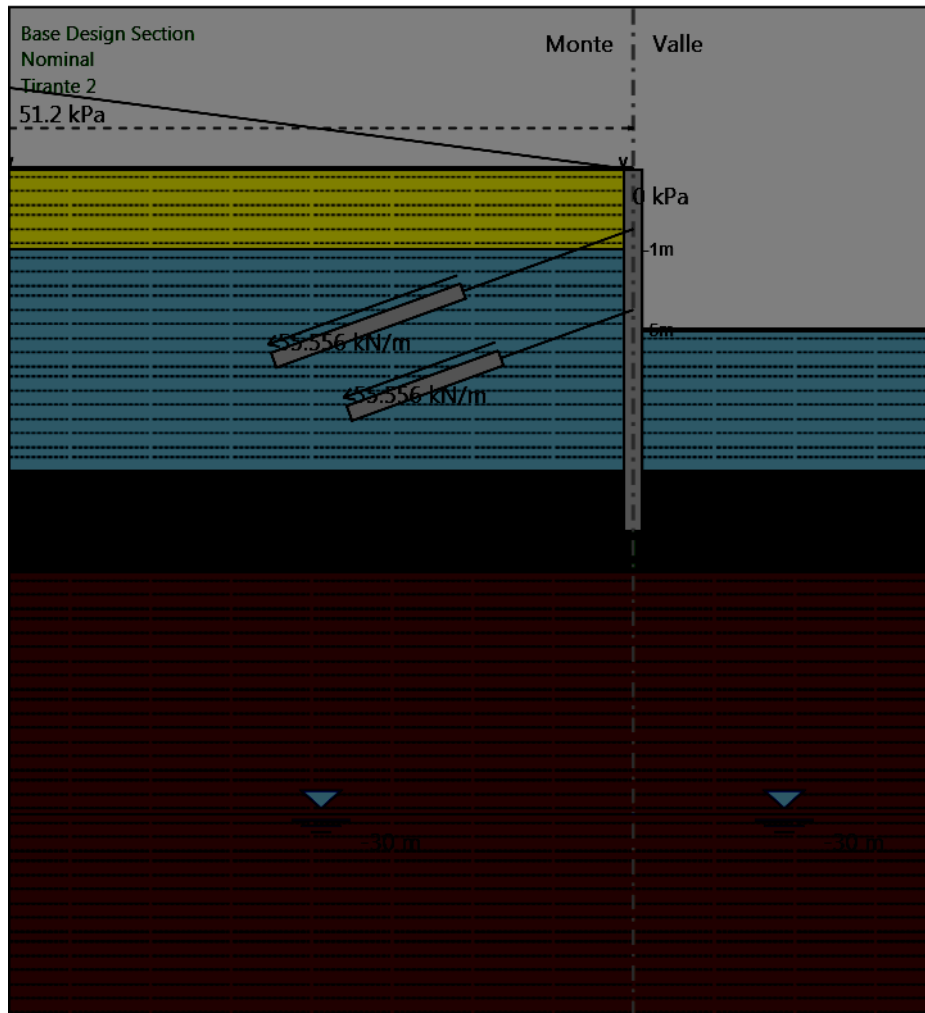
Tipo di barre : Barre trefoli

Numero di barre : 3

Diametro : 0.01331 m

Area : 0.000417 m²

Tirante 2



Tirante 2

Scavo

Muro di sinistra

Lato monte : 2 m

Lato valle : -6 m

Linea di scavo di sinistra (Orizzontale)

2 m

Linea di scavo di destra (Orizzontale)

-6 m

Falda acquifera

Falda di sinistra : -30 m

Falda di destra : -30 m

Carichi

Carico lineare in superficie : SurfaceSurcharge

X iniziale : -0.5 m

X finale : -31 m

Pressione iniziale : 0 kPa

Pressione finale : 51.2 kPa

Elementi strutturali

Paratia : WallElement

X : 0 m

Quota in alto : 2 m

Quota di fondo : -16 m

Sezione : PALI_Fi1000/1200

Tirante : Tieback

X : 0 m

Z : -1 m

Lunghezza bulbo : 10 m

Diametro bulbo : 0.14 m

Lunghezza libera : 9 m

Precarico : 200 kN

Angolo : 20 °

Sezione : Trefoli 3

Tipo di barre : Barre trefoli

Numero di barre : 3

Diametro : 0.01331 m

Area : 0.000417 m²

Tirante : Tieback

X : 0 m

Z : -5 m

Lunghezza bulbo : 8 m

Diametro bulbo : 0.14 m

Lunghezza libera : 7 m

Precarico : 200 kN

Angolo : 20 °

Sezione : Trefoli 3

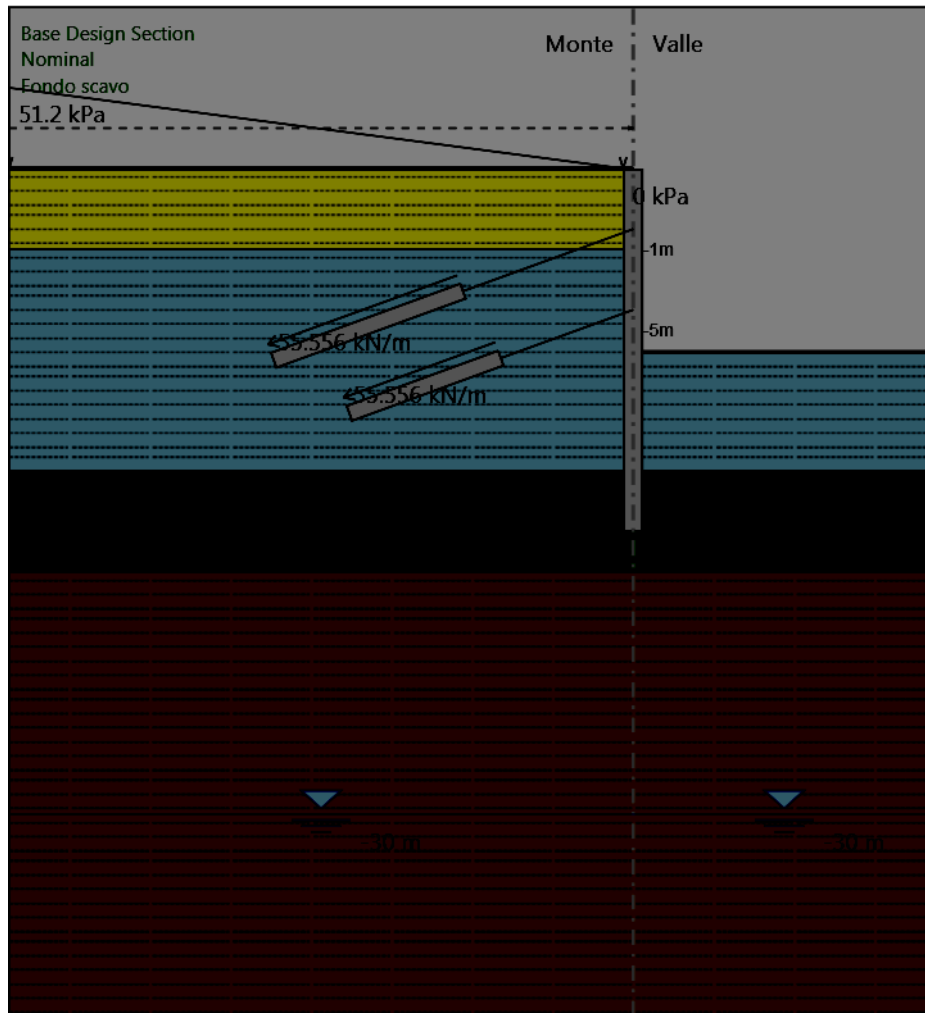
Tipo di barre : Barre trefoli

Numero di barre : 3

Diametro : 0.01331 m

Area : 0.000417 m²

Fondo scavo



Fondo scavo

Scavo

Muro di sinistra

Lato monte : 2 m

Lato valle : -7.1 m

Linea di scavo di sinistra (Orizzontale)

2 m

Linea di scavo di destra (Orizzontale)

-7.1 m

Falda acquifera

Falda di sinistra : -30 m

Falda di destra : -30 m

Carichi

Carico lineare in superficie : SurfaceSurcharge

X iniziale : -0.5 m

X finale : -31 m

Pressione iniziale : 0 kPa

Pressione finale : 51.2 kPa

Elementi strutturali

Paratia : WallElement

X : 0 m

Quota in alto : 2 m

Quota di fondo : -16 m

Sezione : PALI_Fi1000/1200

Tirante : Tieback

X : 0 m

Z : -1 m

Lunghezza bulbo : 10 m

Diametro bulbo : 0.14 m

Lunghezza libera : 9 m

Precarico : 200 kN

Angolo : 20 °

Sezione : Trefoli 3

Tipo di barre : Barre trefoli

Numero di barre : 3

Diametro : 0.01331 m

Area : 0.000417 m²

Tirante : Tieback

X : 0 m

Z : -5 m

Lunghezza bulbo : 8 m

Diametro bulbo : 0.14 m

Lunghezza libera : 7 m

Precarico : 200 kN

Angolo : 20 °

Sezione : Trefoli 3

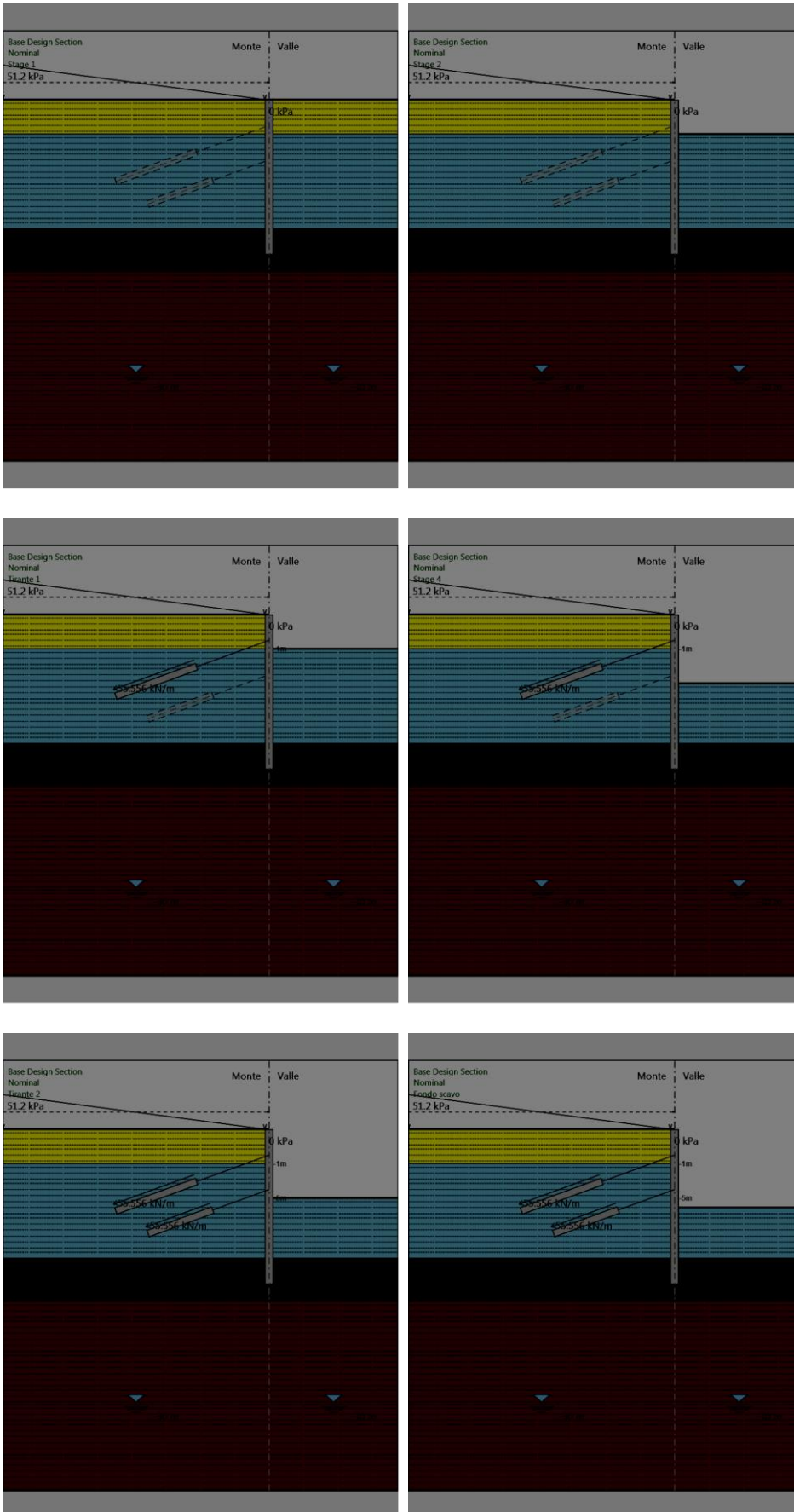
Tipo di barre : Barre trefoli

Numero di barre : 3

Diametro : 0.01331 m

Area : 0.000417 m²

Tabella Configurazione Stage (Nominal)



Grafici dei Risultati

Design Assumption : Nominal

Tabella Spostamento Nominal - LEFT Stage: Stage 1

Design Assumption: Nominal	Tipo Risultato: Spostamento	Muro: LEFT
Stage	Z (m)	Spostamento (mm)
Stage 1	2	0
Stage 1	1.8	0
Stage 1	1.6	0
Stage 1	1.4	0
Stage 1	1.2	0
Stage 1	1	0
Stage 1	0.8	0
Stage 1	0.6	0
Stage 1	0.4	0
Stage 1	0.2	0
Stage 1	0	0
Stage 1	-0.2	0
Stage 1	-0.4	0
Stage 1	-0.6	0
Stage 1	-0.8	0
Stage 1	-1	0
Stage 1	-1.2	0
Stage 1	-1.4	0
Stage 1	-1.6	0
Stage 1	-1.8	0
Stage 1	-2	0
Stage 1	-2.2	0
Stage 1	-2.4	0
Stage 1	-2.6	0
Stage 1	-2.8	0
Stage 1	-3	0
Stage 1	-3.2	0
Stage 1	-3.4	0
Stage 1	-3.6	0
Stage 1	-3.8	0
Stage 1	-4	0
Stage 1	-4.2	0
Stage 1	-4.4	0
Stage 1	-4.6	0
Stage 1	-4.8	0
Stage 1	-5	0
Stage 1	-5.2	0
Stage 1	-5.4	0
Stage 1	-5.6	0
Stage 1	-5.8	0
Stage 1	-6	0
Stage 1	-6.2	0
Stage 1	-6.4	0
Stage 1	-6.6	0
Stage 1	-6.8	0
Stage 1	-7	0
Stage 1	-7.2	0
Stage 1	-7.4	0
Stage 1	-7.6	0
Stage 1	-7.8	0
Stage 1	-8	0
Stage 1	-8.2	0
Stage 1	-8.4	0
Stage 1	-8.6	0
Stage 1	-8.8	0
Stage 1	-9	0
Stage 1	-9.2	0
Stage 1	-9.4	0
Stage 1	-9.6	0
Stage 1	-9.8	0
Stage 1	-10	0

Design Assumption: Nominal Tipo Risultato: Spostamento			Muro: LEFT
Stage	Z (m)	Spostamento (mm)	
Stage 1	-10.2	0	
Stage 1	-10.4	0	
Stage 1	-10.6	0	
Stage 1	-10.8	0	
Stage 1	-11	0	
Stage 1	-11.2	0	
Stage 1	-11.4	0	
Stage 1	-11.6	0	
Stage 1	-11.8	0	
Stage 1	-12	0	
Stage 1	-12.2	0	
Stage 1	-12.4	0	
Stage 1	-12.6	0	
Stage 1	-12.8	0	
Stage 1	-13	0	
Stage 1	-13.2	0	
Stage 1	-13.4	0	
Stage 1	-13.6	0	
Stage 1	-13.8	0	
Stage 1	-14	0	
Stage 1	-14.2	0	
Stage 1	-14.4	0	
Stage 1	-14.6	0	
Stage 1	-14.8	0	
Stage 1	-15	0	
Stage 1	-15.2	0	
Stage 1	-15.4	0	
Stage 1	-15.6	0	
Stage 1	-15.8	0	
Stage 1	-16	0	

Tabella Spostamento Nominal - LEFT Stage: Stage 2

Design Assumption: Nominal	Tipo Risultato: Spostamento	Muro: LEFT
Stage	Z (m)	Spostamento (mm)
Stage 2	2	8.79
Stage 2	1.8	8.53
Stage 2	1.6	8.28
Stage 2	1.4	8.02
Stage 2	1.2	7.77
Stage 2	1	7.51
Stage 2	0.8	7.26
Stage 2	0.6	7
Stage 2	0.4	6.75
Stage 2	0.2	6.49
Stage 2	0	6.24
Stage 2	-0.2	5.98
Stage 2	-0.4	5.73
Stage 2	-0.6	5.48
Stage 2	-0.8	5.23
Stage 2	-1	4.98
Stage 2	-1.2	4.73
Stage 2	-1.4	4.48
Stage 2	-1.6	4.24
Stage 2	-1.8	4
Stage 2	-2	3.76
Stage 2	-2.2	3.53
Stage 2	-2.4	3.3
Stage 2	-2.6	3.08
Stage 2	-2.8	2.86
Stage 2	-3	2.65
Stage 2	-3.2	2.44
Stage 2	-3.4	2.25
Stage 2	-3.6	2.06
Stage 2	-3.8	1.87
Stage 2	-4	1.7
Stage 2	-4.2	1.53
Stage 2	-4.4	1.38
Stage 2	-4.6	1.23
Stage 2	-4.8	1.09
Stage 2	-5	0.95
Stage 2	-5.2	0.83
Stage 2	-5.4	0.71
Stage 2	-5.6	0.61
Stage 2	-5.8	0.51
Stage 2	-6	0.41
Stage 2	-6.2	0.33
Stage 2	-6.4	0.25
Stage 2	-6.6	0.18
Stage 2	-6.8	0.11
Stage 2	-7	0.05
Stage 2	-7.2	0
Stage 2	-7.4	-0.05
Stage 2	-7.6	-0.09
Stage 2	-7.8	-0.12
Stage 2	-8	-0.16
Stage 2	-8.2	-0.18
Stage 2	-8.4	-0.21
Stage 2	-8.6	-0.23
Stage 2	-8.8	-0.24
Stage 2	-9	-0.26
Stage 2	-9.2	-0.27
Stage 2	-9.4	-0.27
Stage 2	-9.6	-0.28
Stage 2	-9.8	-0.28
Stage 2	-10	-0.28
Stage 2	-10.2	-0.28
Stage 2	-10.4	-0.28
Stage 2	-10.6	-0.27
Stage 2	-10.8	-0.27
Stage 2	-11	-0.26
Stage 2	-11.2	-0.25

Design Assumption: Nominal Tipo Risultato: Spostamento Muro: LEFT		
Stage	Z (m)	Spostamento (mm)
Stage 2	-11.4	-0.24
Stage 2	-11.6	-0.23
Stage 2	-11.8	-0.22
Stage 2	-12	-0.21
Stage 2	-12.2	-0.2
Stage 2	-12.4	-0.19
Stage 2	-12.6	-0.18
Stage 2	-12.8	-0.16
Stage 2	-13	-0.15
Stage 2	-13.2	-0.14
Stage 2	-13.4	-0.13
Stage 2	-13.6	-0.11
Stage 2	-13.8	-0.1
Stage 2	-14	-0.09
Stage 2	-14.2	-0.07
Stage 2	-14.4	-0.06
Stage 2	-14.6	-0.05
Stage 2	-14.8	-0.03
Stage 2	-15	-0.02
Stage 2	-15.2	-0.01
Stage 2	-15.4	0
Stage 2	-15.6	0.02
Stage 2	-15.8	0.03
Stage 2	-16	0.04

Tabella Spostamento Nominal - LEFT Stage: Tirante 1

Design Assumption: Nominal	Tipo Risultato: Spostamento	Muro: LEFT
Stage	Z (m)	Spostamento (mm)
Tirante 1	2	7.58
Tirante 1	1.8	7.36
Tirante 1	1.6	7.14
Tirante 1	1.4	6.92
Tirante 1	1.2	6.69
Tirante 1	1	6.47
Tirante 1	0.8	6.25
Tirante 1	0.6	6.02
Tirante 1	0.4	5.8
Tirante 1	0.2	5.58
Tirante 1	0	5.36
Tirante 1	-0.2	5.14
Tirante 1	-0.4	4.92
Tirante 1	-0.6	4.7
Tirante 1	-0.8	4.49
Tirante 1	-1	4.27
Tirante 1	-1.2	4.06
Tirante 1	-1.4	3.85
Tirante 1	-1.6	3.64
Tirante 1	-1.8	3.44
Tirante 1	-2	3.24
Tirante 1	-2.2	3.04
Tirante 1	-2.4	2.84
Tirante 1	-2.6	2.66
Tirante 1	-2.8	2.47
Tirante 1	-3	2.29
Tirante 1	-3.2	2.12
Tirante 1	-3.4	1.95
Tirante 1	-3.6	1.79
Tirante 1	-3.8	1.63
Tirante 1	-4	1.49
Tirante 1	-4.2	1.34
Tirante 1	-4.4	1.21
Tirante 1	-4.6	1.08
Tirante 1	-4.8	0.96
Tirante 1	-5	0.85
Tirante 1	-5.2	0.74
Tirante 1	-5.4	0.64
Tirante 1	-5.6	0.54
Tirante 1	-5.8	0.46
Tirante 1	-6	0.38
Tirante 1	-6.2	0.3
Tirante 1	-6.4	0.24
Tirante 1	-6.6	0.17
Tirante 1	-6.8	0.12
Tirante 1	-7	0.06
Tirante 1	-7.2	0.02
Tirante 1	-7.4	-0.02
Tirante 1	-7.6	-0.06
Tirante 1	-7.8	-0.09
Tirante 1	-8	-0.12
Tirante 1	-8.2	-0.15
Tirante 1	-8.4	-0.17
Tirante 1	-8.6	-0.19
Tirante 1	-8.8	-0.2
Tirante 1	-9	-0.22
Tirante 1	-9.2	-0.23
Tirante 1	-9.4	-0.23
Tirante 1	-9.6	-0.24
Tirante 1	-9.8	-0.24
Tirante 1	-10	-0.24
Tirante 1	-10.2	-0.24
Tirante 1	-10.4	-0.24
Tirante 1	-10.6	-0.24
Tirante 1	-10.8	-0.23
Tirante 1	-11	-0.23
Tirante 1	-11.2	-0.22

Design Assumption: Nominal Tipo Risultato: Spostamento		
Stage	Z (m)	Muro: LEFT Spostamento (mm)
Tirante 1	-11.4	-0.21
Tirante 1	-11.6	-0.21
Tirante 1	-11.8	-0.2
Tirante 1	-12	-0.19
Tirante 1	-12.2	-0.18
Tirante 1	-12.4	-0.17
Tirante 1	-12.6	-0.16
Tirante 1	-12.8	-0.15
Tirante 1	-13	-0.14
Tirante 1	-13.2	-0.12
Tirante 1	-13.4	-0.11
Tirante 1	-13.6	-0.1
Tirante 1	-13.8	-0.09
Tirante 1	-14	-0.08
Tirante 1	-14.2	-0.07
Tirante 1	-14.4	-0.06
Tirante 1	-14.6	-0.04
Tirante 1	-14.8	-0.03
Tirante 1	-15	-0.02
Tirante 1	-15.2	-0.01
Tirante 1	-15.4	0
Tirante 1	-15.6	0.01
Tirante 1	-15.8	0.02
Tirante 1	-16	0.03

Tabella Spostamento Nominal - LEFT Stage: Stage 4

Design Assumption: Nominal	Tipo Risultato: Spostamento	Muro: LEFT
Stage	Z (m)	Spostamento (mm)
Stage 4	2	50.26
Stage 4	1.8	49.39
Stage 4	1.6	48.51
Stage 4	1.4	47.64
Stage 4	1.2	46.77
Stage 4	1	45.89
Stage 4	0.8	45.02
Stage 4	0.6	44.14
Stage 4	0.4	43.27
Stage 4	0.2	42.4
Stage 4	0	41.53
Stage 4	-0.2	40.65
Stage 4	-0.4	39.78
Stage 4	-0.6	38.91
Stage 4	-0.8	38.04
Stage 4	-1	37.17
Stage 4	-1.2	36.31
Stage 4	-1.4	35.44
Stage 4	-1.6	34.58
Stage 4	-1.8	33.72
Stage 4	-2	32.85
Stage 4	-2.2	31.99
Stage 4	-2.4	31.14
Stage 4	-2.6	30.28
Stage 4	-2.8	29.42
Stage 4	-3	28.57
Stage 4	-3.2	27.72
Stage 4	-3.4	26.87
Stage 4	-3.6	26.02
Stage 4	-3.8	25.18
Stage 4	-4	24.34
Stage 4	-4.2	23.5
Stage 4	-4.4	22.67
Stage 4	-4.6	21.84
Stage 4	-4.8	21.01
Stage 4	-5	20.19
Stage 4	-5.2	19.38
Stage 4	-5.4	18.58
Stage 4	-5.6	17.78
Stage 4	-5.8	16.99
Stage 4	-6	16.21
Stage 4	-6.2	15.44
Stage 4	-6.4	14.68
Stage 4	-6.6	13.94
Stage 4	-6.8	13.21
Stage 4	-7	12.49
Stage 4	-7.2	11.79
Stage 4	-7.4	11.1
Stage 4	-7.6	10.43
Stage 4	-7.8	9.78
Stage 4	-8	9.15
Stage 4	-8.2	8.54
Stage 4	-8.4	7.94
Stage 4	-8.6	7.37
Stage 4	-8.8	6.82
Stage 4	-9	6.29
Stage 4	-9.2	5.78
Stage 4	-9.4	5.29
Stage 4	-9.6	4.82
Stage 4	-9.8	4.37
Stage 4	-10	3.94
Stage 4	-10.2	3.53
Stage 4	-10.4	3.14
Stage 4	-10.6	2.77
Stage 4	-10.8	2.41
Stage 4	-11	2.08
Stage 4	-11.2	1.76

Design Assumption: Nominal Tipo Risultato: Spostamento Muro: LEFT		
Stage	Z (m)	Spostamento (mm)
Stage 4	-11.4	1.45
Stage 4	-11.6	1.17
Stage 4	-11.8	0.89
Stage 4	-12	0.63
Stage 4	-12.2	0.38
Stage 4	-12.4	0.15
Stage 4	-12.6	-0.08
Stage 4	-12.8	-0.3
Stage 4	-13	-0.5
Stage 4	-13.2	-0.7
Stage 4	-13.4	-0.89
Stage 4	-13.6	-1.08
Stage 4	-13.8	-1.26
Stage 4	-14	-1.43
Stage 4	-14.2	-1.6
Stage 4	-14.4	-1.77
Stage 4	-14.6	-1.94
Stage 4	-14.8	-2.1
Stage 4	-15	-2.26
Stage 4	-15.2	-2.42
Stage 4	-15.4	-2.58
Stage 4	-15.6	-2.74
Stage 4	-15.8	-2.9
Stage 4	-16	-3.06

Tabella Spostamento Nominal - LEFT Stage: Tirante 2

Design Assumption: Nominal	Tipo Risultato: Spostamento	Muro: LEFT
Stage	Z (m)	Spostamento (mm)
Tirante 2	2	49.94
Tirante 2	1.8	49.06
Tirante 2	1.6	48.18
Tirante 2	1.4	47.3
Tirante 2	1.2	46.42
Tirante 2	1	45.54
Tirante 2	0.8	44.66
Tirante 2	0.6	43.78
Tirante 2	0.4	42.9
Tirante 2	0.2	42.02
Tirante 2	0	41.14
Tirante 2	-0.2	40.26
Tirante 2	-0.4	39.38
Tirante 2	-0.6	38.51
Tirante 2	-0.8	37.63
Tirante 2	-1	36.76
Tirante 2	-1.2	35.88
Tirante 2	-1.4	35.01
Tirante 2	-1.6	34.14
Tirante 2	-1.8	33.27
Tirante 2	-2	32.41
Tirante 2	-2.2	31.54
Tirante 2	-2.4	30.68
Tirante 2	-2.6	29.82
Tirante 2	-2.8	28.96
Tirante 2	-3	28.1
Tirante 2	-3.2	27.25
Tirante 2	-3.4	26.4
Tirante 2	-3.6	25.55
Tirante 2	-3.8	24.7
Tirante 2	-4	23.86
Tirante 2	-4.2	23.02
Tirante 2	-4.4	22.19
Tirante 2	-4.6	21.37
Tirante 2	-4.8	20.55
Tirante 2	-5	19.73
Tirante 2	-5.2	18.93
Tirante 2	-5.4	18.13
Tirante 2	-5.6	17.35
Tirante 2	-5.8	16.57
Tirante 2	-6	15.8
Tirante 2	-6.2	15.04
Tirante 2	-6.4	14.3
Tirante 2	-6.6	13.57
Tirante 2	-6.8	12.85
Tirante 2	-7	12.15
Tirante 2	-7.2	11.46
Tirante 2	-7.4	10.79
Tirante 2	-7.6	10.14
Tirante 2	-7.8	9.5
Tirante 2	-8	8.88
Tirante 2	-8.2	8.29
Tirante 2	-8.4	7.71
Tirante 2	-8.6	7.15
Tirante 2	-8.8	6.61
Tirante 2	-9	6.1
Tirante 2	-9.2	5.6
Tirante 2	-9.4	5.12
Tirante 2	-9.6	4.66
Tirante 2	-9.8	4.23
Tirante 2	-10	3.81
Tirante 2	-10.2	3.41
Tirante 2	-10.4	3.03
Tirante 2	-10.6	2.67
Tirante 2	-10.8	2.33
Tirante 2	-11	2
Tirante 2	-11.2	1.69

Design Assumption: Nominal Tipo Risultato: Spostamento			Muro: LEFT
Stage	Z (m)	Spostamento (mm)	
Tirante 2	-11.4	1.39	
Tirante 2	-11.6	1.11	
Tirante 2	-11.8	0.85	
Tirante 2	-12	0.59	
Tirante 2	-12.2	0.35	
Tirante 2	-12.4	0.12	
Tirante 2	-12.6	-0.1	
Tirante 2	-12.8	-0.31	
Tirante 2	-13	-0.51	
Tirante 2	-13.2	-0.7	
Tirante 2	-13.4	-0.89	
Tirante 2	-13.6	-1.07	
Tirante 2	-13.8	-1.24	
Tirante 2	-14	-1.41	
Tirante 2	-14.2	-1.57	
Tirante 2	-14.4	-1.74	
Tirante 2	-14.6	-1.9	
Tirante 2	-14.8	-2.06	
Tirante 2	-15	-2.21	
Tirante 2	-15.2	-2.37	
Tirante 2	-15.4	-2.52	
Tirante 2	-15.6	-2.68	
Tirante 2	-15.8	-2.83	
Tirante 2	-16	-2.98	

Tabella Spostamento Nominal - LEFT Stage: Fondo scavo

Design Assumption: Nominal	Tipo Risultato: Spostamento	Muro: LEFT
Stage	Z (m)	Spostamento (mm)
Fondo scavo	2	61.9
Fondo scavo	1.8	60.92
Fondo scavo	1.6	59.94
Fondo scavo	1.4	58.96
Fondo scavo	1.2	57.98
Fondo scavo	1	57
Fondo scavo	0.8	56.03
Fondo scavo	0.6	55.05
Fondo scavo	0.4	54.07
Fondo scavo	0.2	53.09
Fondo scavo	0	52.11
Fondo scavo	-0.2	51.14
Fondo scavo	-0.4	50.16
Fondo scavo	-0.6	49.18
Fondo scavo	-0.8	48.21
Fondo scavo	-1	47.23
Fondo scavo	-1.2	46.26
Fondo scavo	-1.4	45.29
Fondo scavo	-1.6	44.32
Fondo scavo	-1.8	43.36
Fondo scavo	-2	42.39
Fondo scavo	-2.2	41.42
Fondo scavo	-2.4	40.46
Fondo scavo	-2.6	39.49
Fondo scavo	-2.8	38.53
Fondo scavo	-3	37.57
Fondo scavo	-3.2	36.61
Fondo scavo	-3.4	35.65
Fondo scavo	-3.6	34.69
Fondo scavo	-3.8	33.74
Fondo scavo	-4	32.79
Fondo scavo	-4.2	31.83
Fondo scavo	-4.4	30.89
Fondo scavo	-4.6	29.94
Fondo scavo	-4.8	29
Fondo scavo	-5	28.07
Fondo scavo	-5.2	27.13
Fondo scavo	-5.4	26.21
Fondo scavo	-5.6	25.29
Fondo scavo	-5.8	24.37
Fondo scavo	-6	23.46
Fondo scavo	-6.2	22.56
Fondo scavo	-6.4	21.67
Fondo scavo	-6.6	20.78
Fondo scavo	-6.8	19.9
Fondo scavo	-7	19.03
Fondo scavo	-7.2	18.17
Fondo scavo	-7.4	17.32
Fondo scavo	-7.6	16.49
Fondo scavo	-7.8	15.66
Fondo scavo	-8	14.85
Fondo scavo	-8.2	14.06
Fondo scavo	-8.4	13.28
Fondo scavo	-8.6	12.51
Fondo scavo	-8.8	11.77
Fondo scavo	-9	11.04
Fondo scavo	-9.2	10.33
Fondo scavo	-9.4	9.64
Fondo scavo	-9.6	8.97
Fondo scavo	-9.8	8.32
Fondo scavo	-10	7.69
Fondo scavo	-10.2	7.08
Fondo scavo	-10.4	6.49
Fondo scavo	-10.6	5.91
Fondo scavo	-10.8	5.36
Fondo scavo	-11	4.83
Fondo scavo	-11.2	4.31

Design Assumption: Nominal Tipo Risultato: Spostamento		
Stage	Z (m)	Muro: LEFT Spostamento (mm)
Fondo scavo	-11.4	3.82
Fondo scavo	-11.6	3.34
Fondo scavo	-11.8	2.88
Fondo scavo	-12	2.43
Fondo scavo	-12.2	2
Fondo scavo	-12.4	1.58
Fondo scavo	-12.6	1.18
Fondo scavo	-12.8	0.79
Fondo scavo	-13	0.4
Fondo scavo	-13.2	0.04
Fondo scavo	-13.4	-0.33
Fondo scavo	-13.6	-0.68
Fondo scavo	-13.8	-1.02
Fondo scavo	-14	-1.36
Fondo scavo	-14.2	-1.69
Fondo scavo	-14.4	-2.02
Fondo scavo	-14.6	-2.35
Fondo scavo	-14.8	-2.67
Fondo scavo	-15	-2.99
Fondo scavo	-15.2	-3.31
Fondo scavo	-15.4	-3.63
Fondo scavo	-15.6	-3.94
Fondo scavo	-15.8	-4.26
Fondo scavo	-16	-4.57

Inviluppi Spostamento Nominal

Tabella Inviluppi Spostamento Nominal Left Wall

Risultato	Inviluppi	Spostamento
Left Wall	Muro Left Wall	
2	0	61.898
1.8	0	60.919
1.6	0	59.941
1.4	0	58.962
1.2	0	57.983
1	0	57.004
0.8	0	56.025
0.6	0	55.047
0.4	0	54.068
0.2	0	53.09
0	0	52.112
-0.2	0	51.135
-0.4	0	50.159
-0.6	0	49.183
-0.8	0	48.208
-1	0	47.235
-1.2	0	46.263
-1.4	0	45.293
-1.6	0	44.324
-1.8	0	43.356
-2	0	42.39
-2.2	0	41.424
-2.4	0	40.459
-2.6	0	39.495
-2.8	0	38.532
-3	0	37.571
-3.2	0	36.61
-3.4	0	35.651
-3.6	0	34.694
-3.8	0	33.739
-4	0	32.785
-4.2	0	31.835
-4.4	0	30.887
-4.6	0	29.942
-4.8	0	29.002
-5	0	28.065
-5.2	0	27.134
-5.4	0	26.208
-5.6	0	25.287
-5.8	0	24.372
-6	0	23.463
-6.2	0	22.561
-6.4	0	21.666
-6.6	0	20.779
-6.8	0	19.9
-7	0	19.031
-7.2	0	18.172
-7.4	-0.045	17.323
-7.6	-0.087	16.487
-7.8	-0.124	15.663
-8	-0.156	14.853
-8.2	-0.184	14.058
-8.4	-0.208	13.278
-8.6	-0.228	12.515
-8.8	-0.244	11.769
-9	-0.257	11.041
-9.2	-0.268	10.332
-9.4	-0.275	9.641
-9.6	-0.28	8.971
-9.8	-0.283	8.32
-10	-0.283	7.689
-10.2	-0.282	7.077
-10.4	-0.279	6.486
-10.6	-0.274	5.914

Risultato	Inviluppi	Spostamento
Left Wall	Muro	Left Wall
-10.8	-0.268	5.362
-11	-0.261	4.829
-11.2	-0.253	4.314
-11.4	-0.244	3.817
-11.6	-0.235	3.338
-11.8	-0.224	2.876
-12	-0.213	2.429
-12.2	-0.201	1.998
-12.4	-0.189	1.581
-12.6	-0.177	1.177
-12.8	-0.306	0.785
-13	-0.507	0.405
-13.2	-0.702	0.035
-13.4	-0.894	0
-13.6	-1.079	0
-13.8	-1.259	0
-14	-1.434	0
-14.2	-1.694	0
-14.4	-2.023	0
-14.6	-2.348	0
-14.8	-2.67	0
-15	-2.99	0
-15.2	-3.308	0
-15.325	0	0
-15.4	-3.625	0.005
-15.6	-3.942	0.018
-15.8	-4.258	0.031
-16	-4.575	0.044

Risultati Paratia

Tabella Risultati Paratia Nominal - Stage: Stage 1

Design Assumption: Nominal Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 1	2	0	0
Stage 1	1.8	0	0
Stage 1	1.6	0	0
Stage 1	1.4	0	0
Stage 1	1.2	0	0
Stage 1	1	0	0
Stage 1	0.8	0	0
Stage 1	0.6	0	0
Stage 1	0.4	0	0
Stage 1	0.2	0	0
Stage 1	0	0	0
Stage 1	-0.2	0	0
Stage 1	-0.4	0	0
Stage 1	-0.6	0	0
Stage 1	-0.8	0	0
Stage 1	-1	0	0
Stage 1	-1.2	0	0
Stage 1	-1.4	0	0
Stage 1	-1.6	0	0
Stage 1	-1.8	0	0
Stage 1	-2	0	0
Stage 1	-2.2	0	0
Stage 1	-2.4	0	0
Stage 1	-2.6	0	0
Stage 1	-2.8	0	0
Stage 1	-3	0	0
Stage 1	-3.2	0	0
Stage 1	-3.4	0	0
Stage 1	-3.6	0	0
Stage 1	-3.8	0	0
Stage 1	-4	0	0
Stage 1	-4.2	0	0
Stage 1	-4.4	0	0
Stage 1	-4.6	0	0
Stage 1	-4.8	0	0
Stage 1	-5	0	0
Stage 1	-5.2	0	0
Stage 1	-5.4	0	0
Stage 1	-5.6	0	0
Stage 1	-5.8	0	0
Stage 1	-6	0	0
Stage 1	-6.2	0	0
Stage 1	-6.4	0	0
Stage 1	-6.6	0	0
Stage 1	-6.8	0	0
Stage 1	-7	0	0
Stage 1	-7.2	0	0
Stage 1	-7.4	0	0
Stage 1	-7.6	0	0
Stage 1	-7.8	0	0
Stage 1	-8	0	0
Stage 1	-8.2	0	0
Stage 1	-8.4	0	0
Stage 1	-8.6	0	0
Stage 1	-8.8	0	0
Stage 1	-9	0	0
Stage 1	-9.2	0	0
Stage 1	-9.4	0	0
Stage 1	-9.6	0	0
Stage 1	-9.8	0	0
Stage 1	-10	0	0
Stage 1	-10.2	0	0
Stage 1	-10.4	0	0
Stage 1	-10.6	0	0

Design Assumption: Nominal Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 1	-10.8	0	0
Stage 1	-11	0	0
Stage 1	-11.2	0	0
Stage 1	-11.4	0	0
Stage 1	-11.6	0	0
Stage 1	-11.8	0	0
Stage 1	-12	0	0
Stage 1	-12.2	0	0
Stage 1	-12.4	0	0
Stage 1	-12.6	0	0
Stage 1	-12.8	0	0
Stage 1	-13	0	0
Stage 1	-13.2	0	0
Stage 1	-13.4	0	0
Stage 1	-13.6	0	0
Stage 1	-13.8	0	0
Stage 1	-14	0	0
Stage 1	-14.2	0	0
Stage 1	-14.4	0	0
Stage 1	-14.6	0	0
Stage 1	-14.8	0	0
Stage 1	-15	0	0
Stage 1	-15.2	0	0
Stage 1	-15.4	0	0
Stage 1	-15.6	0	0
Stage 1	-15.8	0	0
Stage 1	-16	0	0

Tabella Risultati Paratia Nominal - Stage: Stage 2

Design Assumption: Nominal Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 2	2	0	0
Stage 2	1.8	0	0
Stage 2	1.8	0	0
Stage 2	1.6	-0.1	-0.49
Stage 2	1.4	-0.39	-1.46
Stage 2	1.2	-0.98	-2.93
Stage 2	1	-1.95	-4.88
Stage 2	0.8	-3.42	-7.32
Stage 2	0.6	-5.47	-10.25
Stage 2	0.4	-8.2	-13.66
Stage 2	0.2	-11.71	-17.57
Stage 2	0	-16.1	-21.96
Stage 2	-0.2	-21.47	-26.84
Stage 2	-0.4	-27.91	-32.21
Stage 2	-0.6	-35.53	-38.06
Stage 2	-0.8	-44.41	-44.41
Stage 2	-1	-54.66	-51.24
Stage 2	-1.2	-66.37	-58.56
Stage 2	-1.4	-79.64	-66.37
Stage 2	-1.6	-94.58	-74.67
Stage 2	-1.8	-111.27	-83.45
Stage 2	-2	-129.81	-92.73
Stage 2	-2.2	-148.89	-95.41
Stage 2	-2.4	-167.88	-94.92
Stage 2	-2.6	-186.13	-91.28
Stage 2	-2.8	-203.03	-84.47
Stage 2	-3	-217.93	-74.49
Stage 2	-3.2	-230.84	-64.59
Stage 2	-3.4	-241.84	-54.99
Stage 2	-3.6	-250.98	-45.68
Stage 2	-3.8	-258.3	-36.63
Stage 2	-4	-263.87	-27.83
Stage 2	-4.2	-267.72	-19.27
Stage 2	-4.4	-269.91	-10.93
Stage 2	-4.6	-270.46	-2.78
Stage 2	-4.8	-269.43	5.19
Stage 2	-5	-266.83	12.99
Stage 2	-5.2	-262.83	20.01
Stage 2	-5.4	-257.6	26.12
Stage 2	-5.6	-251.33	31.37
Stage 2	-5.8	-244.16	35.83
Stage 2	-6	-236.25	39.55
Stage 2	-6.2	-227.73	42.59
Stage 2	-6.4	-218.73	45.01
Stage 2	-6.6	-209.36	46.84
Stage 2	-6.8	-199.73	48.16
Stage 2	-7	-189.93	48.99
Stage 2	-7.2	-180.04	49.45
Stage 2	-7.4	-170.12	49.6
Stage 2	-7.6	-160.24	49.42
Stage 2	-7.8	-150.45	48.92
Stage 2	-8	-140.82	48.17
Stage 2	-8.2	-131.39	47.17
Stage 2	-8.4	-122.19	45.98
Stage 2	-8.6	-113.27	44.6
Stage 2	-8.8	-104.65	43.08
Stage 2	-9	-96.36	41.45
Stage 2	-9.2	-88.42	39.72
Stage 2	-9.4	-80.84	37.92
Stage 2	-9.6	-73.62	36.08
Stage 2	-9.8	-66.78	34.2
Stage 2	-10	-60.32	32.3
Stage 2	-10.2	-54.24	30.4
Stage 2	-10.4	-48.54	28.51
Stage 2	-10.6	-43.21	26.64
Stage 2	-10.8	-38.25	24.8
Stage 2	-11	-33.65	23

Design Assumption: Nominal Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 2	-11.2	-29.4	21.24
Stage 2	-11.4	-25.49	19.54
Stage 2	-11.6	-21.91	17.9
Stage 2	-11.8	-18.65	16.33
Stage 2	-12	-15.68	14.83
Stage 2	-12.2	-13	13.4
Stage 2	-12.4	-10.59	12.04
Stage 2	-12.6	-8.44	10.77
Stage 2	-12.8	-6.52	9.58
Stage 2	-13	-4.83	8.48
Stage 2	-13.2	-3.33	7.46
Stage 2	-13.4	-2.12	6.05
Stage 2	-13.6	-1.17	4.77
Stage 2	-13.8	-0.44	3.63
Stage 2	-14	0.08	2.61
Stage 2	-14.2	0.43	1.73
Stage 2	-14.4	0.62	0.99
Stage 2	-14.6	0.7	0.37
Stage 2	-14.8	0.68	-0.11
Stage 2	-15	0.59	-0.45
Stage 2	-15.2	0.45	-0.67
Stage 2	-15.4	0.3	-0.76
Stage 2	-15.6	0.16	-0.72
Stage 2	-15.8	0.05	-0.55
Stage 2	-16	0	-0.23

Tabella Risultati Paratia Nominal - Stage: Tirante 1

Design Assumption: Nominal Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Tirante 1	2	0	0
Tirante 1	1.8	0	0
Tirante 1	1.8	0	0
Tirante 1	1.6	-0.28	-1.38
Tirante 1	1.4	-0.93	-3.27
Tirante 1	1.2	-2.07	-5.68
Tirante 1	1	-3.79	-8.6
Tirante 1	0.8	-6.19	-12.03
Tirante 1	0.6	-9.39	-15.98
Tirante 1	0.4	-13.47	-20.43
Tirante 1	0.2	-18.56	-25.42
Tirante 1	0	-24.73	-30.87
Tirante 1	-0.2	-32.08	-36.76
Tirante 1	-0.4	-40.7	-43.1
Tirante 1	-0.6	-50.68	-49.89
Tirante 1	-0.8	-62.11	-57.12
Tirante 1	-1	-75.07	-64.81
Tirante 1	-1.2	-79.21	-70.74
Tirante 1	-1.4	-85.08	-75.32
Tirante 1	-1.6	-92.75	-78.34
Tirante 1	-1.8	-102.31	-79.82
Tirante 1	-2	-113.86	-79.73
Tirante 1	-2.2	-126.85	-78.96
Tirante 1	-2.4	-140.59	-77.71
Tirante 1	-2.6	-154.39	-76.09
Tirante 1	-2.8	-167.56	-74.13
Tirante 1	-3	-179.4	-71.94
Tirante 1	-3.2	-189.88	-69.53
Tirante 1	-3.4	-198.99	-66.91
Tirante 1	-3.6	-206.76	-64.08
Tirante 1	-3.8	-213.18	-61.04
Tirante 1	-4	-218.25	-57.89
Tirante 1	-4.2	-221.98	-54.64
Tirante 1	-4.4	-224.38	-51.29
Tirante 1	-4.6	-225.43	-47.84
Tirante 1	-4.8	-225.15	-44.29
Tirante 1	-5	-223.52	-40.64
Tirante 1	-5.2	-220.68	-36.89
Tirante 1	-5.4	-216.77	-33.04
Tirante 1	-5.6	-211.94	-29.09
Tirante 1	-5.8	-206.33	-25.04
Tirante 1	-6	-200.05	-20.89
Tirante 1	-6.2	-193.23	-16.64
Tirante 1	-6.4	-185.97	-12.29
Tirante 1	-6.6	-178.36	-7.84
Tirante 1	-6.8	-170.51	-3.29
Tirante 1	-7	-162.48	1.36
Tirante 1	-7.2	-154.35	6.01
Tirante 1	-7.4	-146.16	10.66
Tirante 1	-7.6	-137.98	15.31
Tirante 1	-7.8	-129.85	19.96
Tirante 1	-8	-121.82	24.61
Tirante 1	-8.2	-113.93	29.26
Tirante 1	-8.4	-106.22	33.91
Tirante 1	-8.6	-98.72	38.56
Tirante 1	-8.8	-91.46	43.21
Tirante 1	-9	-84.46	47.86
Tirante 1	-9.2	-77.73	52.51
Tirante 1	-9.4	-71.28	57.16
Tirante 1	-9.6	-65.14	61.81
Tirante 1	-9.8	-59.3	66.46
Tirante 1	-10	-53.76	71.11
Tirante 1	-10.2	-48.54	75.76
Tirante 1	-10.4	-43.63	80.41
Tirante 1	-10.6	-39.02	85.06
Tirante 1	-10.8	-34.72	89.71
Tirante 1	-11	-30.72	94.36

Design Assumption: Nominal Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Tirante 1	-11.2	-27.01	18.55
Tirante 1	-11.4	-23.58	17.13
Tirante 1	-11.6	-20.43	15.76
Tirante 1	-11.8	-17.54	14.44
Tirante 1	-12	-14.9	13.18
Tirante 1	-12.2	-12.51	11.97
Tirante 1	-12.4	-10.34	10.83
Tirante 1	-12.6	-8.4	9.74
Tirante 1	-12.8	-6.65	8.73
Tirante 1	-13	-5.09	7.79
Tirante 1	-13.2	-3.71	6.91
Tirante 1	-13.4	-2.57	5.69
Tirante 1	-13.6	-1.66	4.58
Tirante 1	-13.8	-0.94	3.57
Tirante 1	-14	-0.41	2.68
Tirante 1	-14.2	-0.03	1.9
Tirante 1	-14.4	0.22	1.23
Tirante 1	-14.6	0.35	0.67
Tirante 1	-14.8	0.39	0.22
Tirante 1	-15	0.37	-0.12
Tirante 1	-15.2	0.3	-0.35
Tirante 1	-15.4	0.21	-0.46
Tirante 1	-15.6	0.11	-0.48
Tirante 1	-15.8	0.03	-0.39
Tirante 1	-16	0	-0.17

Tabella Risultati Paratia Nominal - Stage: Stage 4

Design Assumption: Nominal Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 4	2	0	0
Stage 4	1.8	0	0
Stage 4	1.8	0	0
Stage 4	1.6	-0.1	-0.49
Stage 4	1.4	-0.39	-1.46
Stage 4	1.2	-0.98	-2.93
Stage 4	1	-1.95	-4.88
Stage 4	0.8	-3.42	-7.32
Stage 4	0.6	-5.47	-10.25
Stage 4	0.4	-8.2	-13.66
Stage 4	0.2	-11.71	-17.57
Stage 4	0	-16.1	-21.96
Stage 4	-0.2	-21.47	-26.84
Stage 4	-0.4	-27.91	-32.21
Stage 4	-0.6	-35.53	-38.06
Stage 4	-0.8	-44.41	-44.41
Stage 4	-1	-54.66	-51.24
Stage 4	-1.2	-48.84	29.09
Stage 4	-1.4	-44.58	21.28
Stage 4	-1.6	-41.99	12.98
Stage 4	-1.8	-41.15	4.2
Stage 4	-2	-42.16	-5.08
Stage 4	-2.2	-44.13	-9.83
Stage 4	-2.4	-47.1	-14.85
Stage 4	-2.6	-51.12	-20.13
Stage 4	-2.8	-56.26	-25.68
Stage 4	-3	-62.56	-31.5
Stage 4	-3.2	-70.08	-37.58
Stage 4	-3.4	-78.87	-43.93
Stage 4	-3.6	-88.98	-50.55
Stage 4	-3.8	-100.46	-57.44
Stage 4	-4	-113.38	-64.59
Stage 4	-4.2	-127.78	-72
Stage 4	-4.4	-143.72	-79.69
Stage 4	-4.6	-161.25	-87.64
Stage 4	-4.8	-180.42	-95.85
Stage 4	-5	-201.28	-104.34
Stage 4	-5.2	-223.9	-113.09
Stage 4	-5.4	-248.32	-122.11
Stage 4	-5.6	-274.6	-131.39
Stage 4	-5.8	-302.79	-140.94
Stage 4	-6	-332.94	-150.76
Stage 4	-6.2	-365.11	-160.84
Stage 4	-6.4	-398.25	-165.69
Stage 4	-6.6	-431.72	-167.38
Stage 4	-6.8	-464.9	-165.9
Stage 4	-7	-497.15	-161.26
Stage 4	-7.2	-527.84	-153.45
Stage 4	-7.4	-556.34	-142.48
Stage 4	-7.6	-582.01	-128.35
Stage 4	-7.8	-604.22	-111.06
Stage 4	-8	-622.82	-93
Stage 4	-8.2	-637.93	-75.52
Stage 4	-8.4	-649.64	-58.59
Stage 4	-8.6	-658.08	-42.18
Stage 4	-8.8	-663.33	-26.27
Stage 4	-9	-665.5	-10.84
Stage 4	-9.2	-664.67	4.15
Stage 4	-9.4	-660.93	18.71
Stage 4	-9.6	-654.36	32.87
Stage 4	-9.8	-645.02	46.66
Stage 4	-10	-633.01	60.09
Stage 4	-10.2	-618.37	73.2
Stage 4	-10.4	-601.2	85.85
Stage 4	-10.6	-581.79	97.06
Stage 4	-10.8	-560.4	106.91
Stage 4	-11	-537.31	115.45

Design Assumption: Nominal Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 4	-11.2	-512.76	122.77
Stage 4	-11.4	-486.97	128.92
Stage 4	-11.6	-460.18	133.97
Stage 4	-11.8	-432.59	137.96
Stage 4	-12	-404.4	140.95
Stage 4	-12.2	-375.8	143
Stage 4	-12.4	-346.95	144.25
Stage 4	-12.6	-318	144.76
Stage 4	-12.8	-289.11	144.44
Stage 4	-13	-260.45	143.31
Stage 4	-13.2	-232.16	141.43
Stage 4	-13.4	-204.68	137.44
Stage 4	-13.6	-178.19	132.41
Stage 4	-13.8	-152.9	126.48
Stage 4	-14	-128.97	119.66
Stage 4	-14.2	-106.57	112
Stage 4	-14.4	-85.86	103.51
Stage 4	-14.6	-67.02	94.23
Stage 4	-14.8	-50.18	84.17
Stage 4	-15	-35.51	73.35
Stage 4	-15.2	-23.16	61.76
Stage 4	-15.4	-13.28	49.41
Stage 4	-15.6	-6.02	36.29
Stage 4	-15.8	-1.54	22.39
Stage 4	-16	0	7.72

Tabella Risultati Paratia Nominal - Stage: Tirante 2

Design Assumption: Nominal Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Tirante 2	2	0	0
Tirante 2	1.8	0	0
Tirante 2	1.8	0	0
Tirante 2	1.6	-0.14	-0.68
Tirante 2	1.4	-0.5	-1.84
Tirante 2	1.2	-1.2	-3.5
Tirante 2	1	-2.34	-5.65
Tirante 2	0.8	-4	-8.3
Tirante 2	0.6	-6.28	-11.43
Tirante 2	0.4	-9.29	-15.06
Tirante 2	0.2	-13.13	-19.18
Tirante 2	0	-17.89	-23.79
Tirante 2	-0.2	-23.67	-28.89
Tirante 2	-0.4	-30.56	-34.49
Tirante 2	-0.6	-38.68	-40.57
Tirante 2	-0.8	-48.11	-47.15
Tirante 2	-1	-58.95	-54.22
Tirante 2	-1.2	-53.87	25.42
Tirante 2	-1.4	-50.4	17.36
Tirante 2	-1.6	-48.63	8.82
Tirante 2	-1.8	-48.68	-0.22
Tirante 2	-2	-50.62	-9.74
Tirante 2	-2.2	-53.75	-15.65
Tirante 2	-2.4	-58.12	-21.84
Tirante 2	-2.6	-63.79	-28.31
Tirante 2	-2.8	-70.8	-35.06
Tirante 2	-3	-79.21	-42.08
Tirante 2	-3.2	-89.09	-49.38
Tirante 2	-3.4	-100.48	-56.96
Tirante 2	-3.6	-113.44	-64.8
Tirante 2	-3.8	-128.03	-72.92
Tirante 2	-4	-144.29	-81.3
Tirante 2	-4.2	-162.28	-89.96
Tirante 2	-4.4	-182.05	-98.87
Tirante 2	-4.6	-203.66	-108.05
Tirante 2	-4.8	-227.16	-117.49
Tirante 2	-5	-252.6	-127.18
Tirante 2	-5.2	-269.58	-84.92
Tirante 2	-5.4	-288.6	-95.11
Tirante 2	-5.6	-309.71	-105.54
Tirante 2	-5.8	-332.95	-116.22
Tirante 2	-6	-358.38	-127.13
Tirante 2	-6.2	-386.04	-138.28
Tirante 2	-6.4	-415	-144.84
Tirante 2	-6.6	-444.64	-148.19
Tirante 2	-6.8	-474.3	-148.31
Tirante 2	-7	-503.34	-145.2
Tirante 2	-7.2	-531.12	-138.86
Tirante 2	-7.4	-556.98	-129.3
Tirante 2	-7.6	-580.28	-116.51
Tirante 2	-7.8	-600.37	-100.48
Tirante 2	-8	-617.1	-83.63
Tirante 2	-8.2	-630.56	-67.3
Tirante 2	-8.4	-640.85	-51.44
Tirante 2	-8.6	-648.06	-36.05
Tirante 2	-8.8	-652.28	-21.1
Tirante 2	-9	-653.59	-6.56
Tirante 2	-9.2	-652.07	7.59
Tirante 2	-9.4	-647.8	21.37
Tirante 2	-9.6	-640.83	34.82
Tirante 2	-9.8	-631.25	47.93
Tirante 2	-10	-619.1	60.76
Tirante 2	-10.2	-604.44	73.3
Tirante 2	-10.4	-587.35	85.43
Tirante 2	-10.6	-568.11	96.17
Tirante 2	-10.8	-547	105.59
Tirante 2	-11	-524.24	113.76

Design Assumption: Nominal Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Tirante 2	-11.2	-500.1	120.74
Tirante 2	-11.4	-474.78	126.59
Tirante 2	-11.6	-448.5	131.37
Tirante 2	-11.8	-421.48	135.13
Tirante 2	-12	-393.89	137.93
Tirante 2	-12.2	-365.93	139.82
Tirante 2	-12.4	-337.74	140.94
Tirante 2	-12.6	-309.47	141.36
Tirante 2	-12.8	-281.28	140.96
Tirante 2	-13	-253.32	139.8
Tirante 2	-13.2	-225.74	137.89
Tirante 2	-13.4	-198.95	133.92
Tirante 2	-13.6	-173.16	128.95
Tirante 2	-13.8	-148.54	123.1
Tirante 2	-14	-125.26	116.41
Tirante 2	-14.2	-103.48	108.9
Tirante 2	-14.4	-83.36	100.61
Tirante 2	-14.6	-65.05	91.55
Tirante 2	-14.8	-48.7	81.75
Tirante 2	-15	-34.46	71.21
Tirante 2	-15.2	-22.47	59.94
Tirante 2	-15.4	-12.88	47.94
Tirante 2	-15.6	-5.84	35.2
Tirante 2	-15.8	-1.5	21.71
Tirante 2	-16	0	7.48

Tabella Risultati Paratia Nominal - Stage: Fondo scavo

Design Assumption: Nominal Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Fondo scavo	2	0	0
Fondo scavo	1.8	0	0
Fondo scavo	1.8	0	0
Fondo scavo	1.6	-0.1	-0.49
Fondo scavo	1.6	-0.1	-0.49
Fondo scavo	1.4	-0.39	-1.46
Fondo scavo	1.2	-0.98	-2.93
Fondo scavo	1	-1.95	-4.88
Fondo scavo	0.8	-3.42	-7.32
Fondo scavo	0.6	-5.47	-10.25
Fondo scavo	0.4	-8.2	-13.66
Fondo scavo	0.2	-11.71	-17.57
Fondo scavo	0	-16.1	-21.96
Fondo scavo	-0.2	-21.47	-26.84
Fondo scavo	-0.4	-27.91	-32.21
Fondo scavo	-0.6	-35.53	-38.06
Fondo scavo	-0.8	-44.41	-44.41
Fondo scavo	-1	-54.66	-51.24
Fondo scavo	-1.2	-46.67	39.92
Fondo scavo	-1.4	-40.25	32.12
Fondo scavo	-1.6	-35.49	23.82
Fondo scavo	-1.8	-32.48	15.03
Fondo scavo	-2	-31.33	5.76
Fondo scavo	-2.2	-31.12	1.01
Fondo scavo	-2.4	-31.93	-4.01
Fondo scavo	-2.6	-33.78	-9.29
Fondo scavo	-2.8	-36.75	-14.84
Fondo scavo	-3	-40.89	-20.66
Fondo scavo	-3.2	-46.23	-26.75
Fondo scavo	-3.4	-52.85	-33.1
Fondo scavo	-3.6	-60.8	-39.71
Fondo scavo	-3.8	-70.12	-46.6
Fondo scavo	-4	-80.87	-53.75
Fondo scavo	-4.2	-93.1	-61.17
Fondo scavo	-4.4	-106.87	-68.85
Fondo scavo	-4.6	-122.23	-76.8
Fondo scavo	-4.8	-139.23	-85.02
Fondo scavo	-5	-157.93	-93.5
Fondo scavo	-5.2	-165.67	-98.67
Fondo scavo	-5.4	-175.21	-104.69
Fondo scavo	-5.6	-186.6	-111.98
Fondo scavo	-5.8	-199.91	-119.53
Fondo scavo	-6	-215.17	-127.34
Fondo scavo	-6.2	-232.46	-135.43
Fondo scavo	-6.4	-251.82	-143.78
Fondo scavo	-6.6	-273.29	-152.39
Fondo scavo	-6.8	-296.95	-161.28
Fondo scavo	-7	-322.84	-170.43
Fondo scavo	-7.2	-351.01	-179.85
Fondo scavo	-7.4	-380.75	-189.57
Fondo scavo	-7.6	-411.45	-199.68
Fondo scavo	-7.8	-442.46	-210.18
Fondo scavo	-8	-473.15	-221.08
Fondo scavo	-8.2	-502.9	-232.37
Fondo scavo	-8.4	-531.05	-244.05
Fondo scavo	-8.6	-556.99	-256.12
Fondo scavo	-8.8	-580.09	-268.58
Fondo scavo	-9	-599.7	-281.43
Fondo scavo	-9.2	-615.39	-294.66
Fondo scavo	-9.4	-627.29	-308.27
Fondo scavo	-9.6	-635.51	-322.25
Fondo scavo	-9.8	-640.17	-336.6
Fondo scavo	-10	-641.38	-351.31
Fondo scavo	-10.2	-639.23	-366.38
Fondo scavo	-10.4	-633.84	-381.81
Fondo scavo	-10.6	-625.3	-397.6
Fondo scavo	-10.8	-613.69	-413.84

Design Assumption: Nominal Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Fondo scavo	-11	-599.11	72.92
Fondo scavo	-11.2	-581.63	87.39
Fondo scavo	-11.4	-561.33	101.48
Fondo scavo	-11.6	-538.48	114.25
Fondo scavo	-11.8	-513.41	125.36
Fondo scavo	-12	-486.44	134.85
Fondo scavo	-12.2	-457.88	142.78
Fondo scavo	-12.4	-428.02	149.33
Fondo scavo	-12.6	-397.11	154.56
Fondo scavo	-12.8	-365.41	158.51
Fondo scavo	-13	-333.16	161.22
Fondo scavo	-13.2	-300.62	162.72
Fondo scavo	-13.4	-268.03	162.95
Fondo scavo	-13.6	-235.79	161.18
Fondo scavo	-13.8	-204.28	157.55
Fondo scavo	-14	-173.86	152.1
Fondo scavo	-14.2	-144.89	144.86
Fondo scavo	-14.4	-117.69	135.99
Fondo scavo	-14.6	-92.58	125.59
Fondo scavo	-14.8	-69.84	113.69
Fondo scavo	-15	-49.78	100.3
Fondo scavo	-15.2	-32.69	85.44
Fondo scavo	-15.4	-18.87	69.09
Fondo scavo	-15.6	-8.62	51.26
Fondo scavo	-15.8	-2.23	31.95
Fondo scavo	-16	0	11.14

Inviluppi Risultati Paratia Nominal

Tabella Inviluppi Momento Nominal WallElement

Risultato	Inviluppi	Momento
WallElement Muro Left Wall		
2	0	0
1.8	0	0
1.6	0.276	0
1.4	0.931	0
1.2	2.067	0
1	3.787	0
0.8	6.193	0
0.6	9.388	0
0.4	13.474	0
0.2	18.559	0
0	24.732	0
-0.2	32.084	0
-0.4	40.703	0
-0.6	50.68	0
-0.8	62.105	0
-1	75.068	0
-1.2	79.215	0
-1.4	85.078	0
-1.6	94.577	0
-1.8	111.268	0
-2	129.813	0
-2.2	148.894	0
-2.4	167.879	0
-2.6	186.134	0
-2.8	203.027	0
-3	217.925	0
-3.2	230.844	0
-3.4	241.842	0
-3.6	250.977	0
-3.8	258.303	0
-4	263.869	0
-4.2	267.723	0
-4.4	269.908	0
-4.6	270.464	0
-4.8	269.426	0
-5	266.828	0
-5.2	269.582	0
-5.4	288.603	0
-5.6	309.711	0
-5.8	332.955	0
-6	358.381	0
-6.2	386.036	0
-6.4	415.005	0
-6.6	444.642	0
-6.8	474.303	0
-7	503.343	0
-7.2	531.116	0
-7.4	556.975	0
-7.6	582.01	0
-7.8	604.222	0
-8	622.822	0
-8.2	637.925	0
-8.4	649.642	0
-8.6	658.078	0
-8.8	663.332	0
-9	665.5	0
-9.2	664.671	0
-9.4	660.929	0
-9.6	654.356	0
-9.8	645.025	0
-10	641.375	0
-10.2	639.233	0
-10.4	633.842	0
-10.6	625.297	0

Risultato	Inviluppi	Momento
WallElement Muro Left Wall		
-10.8	613.69	0
-11	599.105	0
-11.2	581.626	0
-11.4	561.331	0
-11.6	538.48	0
-11.8	513.409	0
-12	486.44	0
-12.2	457.883	0
-12.4	428.018	0
-12.6	397.106	0
-12.8	365.405	0
-13	333.162	0
-13.2	300.617	0
-13.4	268.027	0
-13.6	235.792	0
-13.8	204.282	0
-14	173.863	0.078
-14.2	144.891	0.425
-14.4	117.693	0.623
-14.6	92.576	0.697
-14.8	69.838	0.676
-15	49.777	0.585
-15.2	32.69	0.451
-15.4	18.871	0.3
-15.6	8.618	0.155
-15.8	2.229	0.046
-16	0	0

Tabella Involuppi Taglio Nominal WallElement

Risultato WallElement	Involuppi Muro Left Wall	Taglio
2	0	0
1.8	0	0
1.6	0.276	0
1.4	0.931	0
1.2	2.067	0
1	3.787	0
0.8	6.193	0
0.6	9.388	0
0.4	13.474	0
0.2	18.559	0
0	24.732	0
-0.2	32.084	0
-0.4	40.703	0
-0.6	50.68	0
-0.8	62.105	0
-1	75.068	0
-1.2	79.215	0
-1.4	85.078	0
-1.6	94.577	0
-1.8	111.268	0
-2	129.813	0
-2.2	148.894	0
-2.4	167.879	0
-2.6	186.134	0
-2.8	203.027	0
-3	217.925	0
-3.2	230.844	0
-3.4	241.842	0
-3.6	250.977	0
-3.8	258.303	0
-4	263.869	0
-4.2	267.723	0
-4.4	269.908	0
-4.6	270.464	0
-4.8	269.426	0
-5	266.828	0
-5.2	269.582	0
-5.4	288.603	0
-5.6	309.711	0
-5.8	332.955	0
-6	358.381	0
-6.2	386.036	0
-6.4	415.005	0
-6.6	444.642	0
-6.8	474.303	0
-7	503.343	0
-7.2	531.116	0
-7.4	556.975	0
-7.6	582.01	0
-7.8	604.222	0
-8	622.822	0
-8.2	637.925	0
-8.4	649.642	0
-8.6	658.078	0
-8.8	663.332	0
-9	665.5	0
-9.2	664.671	0
-9.4	660.929	0
-9.6	654.356	0
-9.8	645.025	0
-10	641.375	0
-10.2	639.233	0
-10.4	633.842	0
-10.6	625.297	0
-10.8	613.69	0
-11	599.105	0
-11.2	581.626	0

Risultato	Inviluppi	Taglio
WallElement Muro Left Wall		
-11.4	561.331	0
-11.6	538.48	0
-11.8	513.409	0
-12	486.44	0
-12.2	457.883	0
-12.4	428.018	0
-12.6	397.106	0
-12.8	365.405	0
-13	333.162	0
-13.2	300.617	0
-13.4	268.027	0
-13.6	235.792	0
-13.8	204.282	0
-14	173.863	0.078
-14.2	144.891	0.425
-14.4	117.693	0.623
-14.6	92.576	0.697
-14.8	69.838	0.676
-15	49.777	0.585
-15.2	32.69	0.451
-15.4	18.871	0.3
-15.6	8.618	0.155
-15.8	2.229	0.046
-16	0	0

Risultati Elementi strutturali

Design Assumption: Nominal Sollecitazione Tieback	
Stage	Forza (kN/m)
Tirante 1	55.56
Stage 4	93.27411
Tirante 2	92.79507
Fondo scavo	104.8075

Design Assumption: Nominal Sollecitazione Tieback

Stage	Forza (kN/m)
Tirante 2	55.56
Fondo scavo	67.65653

Riepilogo spinte

Design Assumption: Tipo Risultato: Riepi-		Muro:	LEFT	Lato	LEFT		
Nominal	logo spinte						
Stage	Vera effettiva (kN/m)	Pressione neutra	Vera Totale	Min ammissibile	Max ammissibile	Percentuale di resi-	Vera /
		(kN/m)	(kN/m)	(kN/m)	(kN/m)	stenza massima	Attiva
Stage 1	1768.5	0	1768.5	1049.1	12939.6	13.67%	1.69
Stage 2	1674.6	0	1674.6	1049.1	12939.6	12.94%	1.6
Tirante 1	1712.8	0	1712.8	1049.1	12939.6	13.24%	1.63
Stage 4	1496	0	1496	1049.1	12939.6	11.56%	1.43
Tirante 2	1538.9	0	1538.9	1049.1	12939.6	11.89%	1.47
Fondo scavo	1452.8	0	1452.8	1049.1	12939.6	11.23%	1.38

Design Assumption: Tipo Risultato: Riepi-		Muro:	LEFT	Lato	RIGHT		
Nominal	logo spinte						
Stage	Vera effettiva (kN/m)	Pressione neutra	Vera Totale	Min ammissibile	Max ammissibile	Percentuale di resi-	Vera /
		(kN/m)	(kN/m)	(kN/m)	(kN/m)	stenza massima	Attiva
Stage 1	1768.5	0	1768.5	1047.9	12927.5	13.68%	1.69
Stage 2	1674.6	0	1674.6	563.6	8056.7	20.79%	2.97
Tirante 1	1660.6	0	1660.6	563.6	8056.7	20.61%	2.95
Stage 4	1408.3	0	1408.3	238.5	4144.1	33.98%	5.9
Tirante 2	1399.4	0	1399.4	238.5	4144.1	33.77%	5.87
Fondo scavo	1290.8	0	1290.8	167.8	3310.7	38.99%	7.69

Allegati

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

```
* PARATIE ANALYSIS FOR DESIGN SECTION:Base Design Section USING ASSUMPTION: Nominal
* Time:lunedì 29 giugno 2020 20:30:03
* 1: Defining general settings
UNIT m kN
TITLE New Project
DELTA 0.2
option param itemax 40

* 2: Defining wall(s)
WALL LeftWall_29 0 -16 2 1

* 3: Defining surfaces for wall(s)
SOIL 0_L LeftWall_29 -16 2 1 0
SOIL 0_R LeftWall_29 -16 2 2 180

* 4: Defining soil layers
*
* Soil Profile (FRANA_334_8_L_0)
*
LDATA FRANA_334_8_L_0 2 LeftWall_29
ATREST 0.758 1 1
WEIGHT 20 10 10
PERMEABILITY 1E-05
RESISTANCE 0 14
YOUNG 1.5E+04 2.4E+04
ENDDL
*
* Soil Profile (BNA3(2)_335_337_L_0)
*
LDATA BNA3(2)_335_337_L_0 -2 LeftWall_29
ATREST 0.5 1 1
WEIGHT 20 10 10
PERMEABILITY 1E-05
RESISTANCE 2.5 30
YOUNG 5E+04 8E+04
ENDDL
*
* Soil Profile (BNA3(3)_336_338_L_0)
*
LDATA BNA3(3)_336_338_L_0 -13 LeftWall_29
ATREST 0.577 1 1
WEIGHT 20 10 10
PERMEABILITY 1E-05
RESISTANCE 30 25
YOUNG 7.5E+04 1.2E+05
ENDDL

* 5: Defining structural materials
* Steel material: 2753 Name=Fe360 E=206000200 kPa
MATERIAL Fe360_2753 2.06E+08
* Concrete material: 101 Name=C25/30 E=31475800 kPa
MATERIAL C2530_101 3.148E+07
* Rebar material: 110 Name=acciaio armonico E=200100000 kPa
MATERIAL acciaioarmonico_110 2.001E+08

* 6: Defining structural elements
* 6.1: Beams
BEAM WallElement_30 LeftWall_29 -16 2 C2530_101 0.7888 00 00

* 6.2: Supports
WIRE Tieback_341 LeftWall_29 -1 acciaioarmonico_110 6.096E-06 55.56 20 0 0
WIRE Tieback_342 LeftWall_29 -5 acciaioarmonico_110 7.722E-06 55.56 20 0 0

* 6.3: Strips
STRIP LeftWall_29 1 6 31 30.5 2 25.6 45

* 7: Defining Steps
STEP Stage1_28
CHANGE FRANA_334_8_L_0 U-FRICT=14 LeftWall_29
CHANGE FRANA_334_8_L_0 D-FRICT=14 LeftWall_29
CHANGE FRANA_334_8_L_0 U-KA=0.61 LeftWall_29
CHANGE FRANA_334_8_L_0 U-KP=1.85 LeftWall_29
CHANGE FRANA_334_8_L_0 D-KA=0.61 LeftWall_29
CHANGE FRANA_334_8_L_0 D-KP=1.85 LeftWall_29
CHANGE BNA3(2)_335_337_L_0 U-FRICT=30 LeftWall_29
CHANGE BNA3(2)_335_337_L_0 D-FRICT=30 LeftWall_29
CHANGE BNA3(2)_335_337_L_0 U-KA=0.333 LeftWall_29
CHANGE BNA3(2)_335_337_L_0 U-KP=4.288 LeftWall_29
```

```

CHANGE BNA3(2)_335_337_L_0 D-KA=0.333 LeftWall_29
CHANGE BNA3(2)_335_337_L_0 D-KP=4.288 LeftWall_29
CHANGE BNA3(3)_336_338_L_0 U-FRICT=25 LeftWall_29
CHANGE BNA3(3)_336_338_L_0 D-FRICT=25 LeftWall_29
CHANGE BNA3(3)_336_338_L_0 U-KA=0.406 LeftWall_29
CHANGE BNA3(3)_336_338_L_0 U-KP=3.222 LeftWall_29
CHANGE BNA3(3)_336_338_L_0 D-KA=0.406 LeftWall_29
CHANGE BNA3(3)_336_338_L_0 D-KP=3.222 LeftWall_29
CHANGE FRANA_334_8_L_0 U-COHE=0 LeftWall_29
CHANGE FRANA_334_8_L_0 D-COHE=0 LeftWall_29
CHANGE BNA3(2)_335_337_L_0 U-COHE=2.5 LeftWall_29
CHANGE BNA3(2)_335_337_L_0 D-COHE=2.5 LeftWall_29
CHANGE BNA3(3)_336_338_L_0 U-COHE=30 LeftWall_29
CHANGE BNA3(3)_336_338_L_0 D-COHE=30 LeftWall_29
SETWALL LeftWall_29
GEOM 2 2
WATER -30 0 -16 0 0
ADD WallElement_30
ENDSTEP

STEP Stage2_344
CHANGE FRANA_334_8_L_0 D-FRICT=14 LeftWall_29
CHANGE BNA3(2)_335_337_L_0 D-FRICT=30 LeftWall_29
CHANGE BNA3(3)_336_338_L_0 D-FRICT=25 LeftWall_29
CHANGE FRANA_334_8_L_0 D-COHE=0 LeftWall_29
CHANGE BNA3(2)_335_337_L_0 D-COHE=2.5 LeftWall_29
CHANGE BNA3(3)_336_338_L_0 D-COHE=30 LeftWall_29
SETWALL LeftWall_29
GEOM 2 -2
WATER -30 0 -16 0 0
ENDSTEP

STEP Tirante1_1139
CHANGE FRANA_334_8_L_0 D-FRICT=14 LeftWall_29
CHANGE BNA3(2)_335_337_L_0 D-FRICT=30 LeftWall_29
CHANGE BNA3(3)_336_338_L_0 D-FRICT=25 LeftWall_29
CHANGE FRANA_334_8_L_0 D-COHE=0 LeftWall_29
CHANGE BNA3(2)_335_337_L_0 D-COHE=2.5 LeftWall_29
CHANGE BNA3(3)_336_338_L_0 D-COHE=30 LeftWall_29
SETWALL LeftWall_29
GEOM 2 -2
WATER -30 0 -16 0 0
ADD Tieback_341
ENDSTEP

STEP Stage4_1238
CHANGE FRANA_334_8_L_0 D-FRICT=14 LeftWall_29
CHANGE BNA3(2)_335_337_L_0 D-FRICT=30 LeftWall_29
CHANGE BNA3(3)_336_338_L_0 D-FRICT=25 LeftWall_29
CHANGE FRANA_334_8_L_0 D-COHE=0 LeftWall_29
CHANGE BNA3(2)_335_337_L_0 D-COHE=2.5 LeftWall_29
CHANGE BNA3(3)_336_338_L_0 D-COHE=30 LeftWall_29
SETWALL LeftWall_29
GEOM 2 -6
WATER -30 0 -16 0 0
ENDSTEP

STEP Tirante2_1685
CHANGE FRANA_334_8_L_0 D-FRICT=14 LeftWall_29
CHANGE BNA3(2)_335_337_L_0 D-FRICT=30 LeftWall_29
CHANGE BNA3(3)_336_338_L_0 D-FRICT=25 LeftWall_29
CHANGE FRANA_334_8_L_0 D-COHE=0 LeftWall_29
CHANGE BNA3(2)_335_337_L_0 D-COHE=2.5 LeftWall_29
CHANGE BNA3(3)_336_338_L_0 D-COHE=30 LeftWall_29
SETWALL LeftWall_29
GEOM 2 -6
WATER -30 0 -16 0 0
ADD Tieback_342
ENDSTEP

STEP Fondoscavo_2741
CHANGE FRANA_334_8_L_0 D-FRICT=14 LeftWall_29
CHANGE BNA3(2)_335_337_L_0 D-FRICT=30 LeftWall_29
CHANGE BNA3(3)_336_338_L_0 D-FRICT=25 LeftWall_29
CHANGE FRANA_334_8_L_0 D-COHE=0 LeftWall_29
CHANGE BNA3(2)_335_337_L_0 D-COHE=2.5 LeftWall_29
CHANGE BNA3(3)_336_338_L_0 D-COHE=30 LeftWall_29
SETWALL LeftWall_29
GEOM 2 -7.1
WATER -30 0 -16 0 0
ENDSTEP

```

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

```

+-----+
|                PARATIE PLUS 2014 NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Sept23, 2015*                |
|                                                                                                                                            |
|                NewProject.BaseDesignSection_25.Nominal_60                                                                              |
|                Exe Time :29 June 2020      20:30:03                                                                              |
+-----+

```

```

*****
*                                                                                                                                            *
* PARATIE PLUS Non-Linear Spring Engine                                                                                                    *
*                                                                                                                                            *
* AN ELASTOPLASTIC FINITE ELEMENT PROGRAM                                                                                              *
* FOR FLEXIBLE EARTH-RETAINING STRUCTURES                                                                                              *
*                                                                                                                                            *
* Written by Ce.A.S. s.r.l. (ITALY)                                                                                                      *
* with the scientific supervision of                                                                                                      *
* Roberto Nova - full professor SOIL MECHANICS                                                                                          *
* at Politecnico di Milano (ITALY)                                                                                                      *
*                                                                                                                                            *
*****
* RELEASE 2016 *Build date: Sept23, 2015*                                                                                                    *
*                                                                                                                                            *
*                                                                                                                                            *
* Ce.A.S. S.R.L. CENTRO DI ANALISI STRUTTURALE                                                                                          *
* VIALE GIUSTINIANO 10                                                                                                                *
* 20129 M I L A N O (ITALIA)                                                                                                          *
* TEL. +39 02 2020221 (+39 035 23 67 19)                                                                                              *
* FAX +39 02 29512533 (+39 035 42285 49)                                                                                              *
* email bruno.becci@ceas.it                                                                                                          *
* Web Page www.ceas.it                                                                                                                *
*****

```

```

JOB : NewProject.BaseDesignSection_25.Nominal_60
STARTING
ACCEPTED <FILE,GENW >
ACCEPTED <FILE,PLOTTER,BINARY >
ACCEPTED <SOLVE TOTAL_STRESS >
ACCEPTED <PARAM ITEMAX 40 >

```

```

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

```

```

PRELIMINARY OPERATIONS CPU TIME 0.00 [sec]

```

```

+-----+
|          PARATIE PLUS 2014 NLS ENGINE RELEASE  2016  FULL VERSION  *Build date: Sept23, 2015*          |
|                                                                                                                                            |
|                                                                 NewProject.BaseDesignSection_25.Nominal_60                               |
|                                                                 Exe Time :29 June 2020      20:30:03                               |
+-----+

```

INPUT FILE HAS BEEN GENERATED BY WALGEN PROGRAM

New Project

```

NO. OF NODAL POINTS (NUMNP) ..... 91
NO. OF COORDINATES (NCOORD)..... 2
NO. OF NODE DOFS (NDOF)..... 2
NO. OF EQUATIONS (NEQ)..... 182
NO. OF CONSTRAINTS CARDS (NVINC)..... 0
NO. OF ELEMENT GROUPS (NEG)..... 5
NO. OF SOLUTION STEPS (NSTE)..... 6
NO. OF ELEMENT SETS ATTACHED TO SLAVE NODES ... 0
NO. OF RECORD FROM WALGEN ..... 122
NO. OF LONG NAMES (LASTNAME) ..... 24
LENGTH UNIT CHOICE ..... 3 (M )
FORCE UNIT CHOICE ..... 3 (KN )
MAX PORE PRESSURE TABLE LENGTH..... 1
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.

```



```
+-----+
|                PARATIE PLUS 2014 NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Sept23, 2015*                |
|                                                                                                            |
|                NewProject.BaseDesignSection_25.Nominal_60                                             |
|                Exe Time :29 June 2020      20:30:03                                                    |
+-----+
```

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 122

```
1 : UNIT m kN
2 : TITLE New Project
3 : DELTA 0.2
4 : option param itemax 40
5 : WALL LeftWall_29 0 -16 2 1
6 : SOIL 0_L LeftWall_29 -16 2 1 0
7 : SOIL 0_R LeftWall_29 -16 2 2 180
8 : LDATA FRANA_334_8_L_0 2 LeftWall_29
9 : ATREST 0.758 1 1
10 : WEIGHT 20 10 10
11 : PERMEABILITY 1E-05
12 : RESISTANCE 0 14
13 : YOUNG 1.5E+04 2.4E+04
14 : ENDL
15 : LDATA BNA3(2)_335_337_L_0 -2 LeftWall_29
16 : ATREST 0.5 1 1
17 : WEIGHT 20 10 10
18 : PERMEABILITY 1E-05
19 : RESISTANCE 2.5 30
20 : YOUNG 5E+04 8E+04
21 : ENDL
22 : LDATA BNA3(3)_336_338_L_0 -13 LeftWall_29
23 : ATREST 0.577 1 1
24 : WEIGHT 20 10 10
25 : PERMEABILITY 1E-05
26 : RESISTANCE 30 25
27 : YOUNG 7.5E+04 1.2E+05
28 : ENDL
29 : MATERIAL Fe360_2753 2.06E+08
30 : MATERIAL C2530_101 3.148E+07
31 : MATERIAL acciaioarmonico_110 2.001E+08
32 : BEAM WallElement_30 LeftWall_29 -16 2 C2530_101 0.7888 00 00
33 : WIRE Tieback_341 LeftWall_29 -1 acciaioarmonico_110 6.096E-06 55.56 20 0 0
34 : WIRE Tieback_342 LeftWall_29 -5 acciaioarmonico_110 7.722E-06 55.56 20 0 0
35 : STRIP LeftWall_29 1 6 31 30.5 2 25.6 45
36 : STEP Stage1_28
37 : CHANGE FRANA_334_8_L_0 U-FRICT=14 LeftWall_29
38 : CHANGE FRANA_334_8_L_0 D-FRICT=14 LeftWall_29
39 : CHANGE FRANA_334_8_L_0 U-KA=0.61 LeftWall_29
40 : CHANGE FRANA_334_8_L_0 U-KP=1.85 LeftWall_29
41 : CHANGE FRANA_334_8_L_0 D-KA=0.61 LeftWall_29
42 : CHANGE FRANA_334_8_L_0 D-KP=1.85 LeftWall_29
43 : CHANGE BNA3(2)_335_337_L_0 U-FRICT=30 LeftWall_29
44 : CHANGE BNA3(2)_335_337_L_0 D-FRICT=30 LeftWall_29
45 : CHANGE BNA3(2)_335_337_L_0 U-KA=0.333 LeftWall_29
46 : CHANGE BNA3(2)_335_337_L_0 U-KP=4.288 LeftWall_29
47 : CHANGE BNA3(2)_335_337_L_0 D-KA=0.333 LeftWall_29
48 : CHANGE BNA3(2)_335_337_L_0 D-KP=4.288 LeftWall_29
49 : CHANGE BNA3(3)_336_338_L_0 U-FRICT=25 LeftWall_29
50 : CHANGE BNA3(3)_336_338_L_0 D-FRICT=25 LeftWall_29
51 : CHANGE BNA3(3)_336_338_L_0 U-KA=0.406 LeftWall_29
52 : CHANGE BNA3(3)_336_338_L_0 U-KP=3.222 LeftWall_29
53 : CHANGE BNA3(3)_336_338_L_0 D-KA=0.406 LeftWall_29
54 : CHANGE BNA3(3)_336_338_L_0 D-KP=3.222 LeftWall_29
55 : CHANGE FRANA_334_8_L_0 U-COHE=0 LeftWall_29
56 : CHANGE FRANA_334_8_L_0 D-COHE=0 LeftWall_29
57 : CHANGE BNA3(2)_335_337_L_0 U-COHE=2.5 LeftWall_29
58 : CHANGE BNA3(2)_335_337_L_0 D-COHE=2.5 LeftWall_29
59 : CHANGE BNA3(3)_336_338_L_0 U-COHE=30 LeftWall_29
60 : CHANGE BNA3(3)_336_338_L_0 D-COHE=30 LeftWall_29
61 : SETWALL LeftWall_29
62 : GEOM 2 2
63 : WATER -30 0 -16 0 0
64 : ADD WallElement_30
65 : ENDSTEP
66 : STEP Stage2_344
67 : CHANGE FRANA_334_8_L_0 D-FRICT=14 LeftWall_29
68 : CHANGE BNA3(2)_335_337_L_0 D-FRICT=30 LeftWall_29
69 : CHANGE BNA3(3)_336_338_L_0 D-FRICT=25 LeftWall_29
70 : CHANGE FRANA_334_8_L_0 D-COHE=0 LeftWall_29
71 : CHANGE BNA3(2)_335_337_L_0 D-COHE=2.5 LeftWall_29
72 : CHANGE BNA3(3)_336_338_L_0 D-COHE=30 LeftWall_29
73 : SETWALL LeftWall_29
74 : GEOM 2 -2
75 : WATER -30 0 -16 0 0
76 : ENDSTEP
77 : STEP Tirante1_1139
78 : CHANGE FRANA_334_8_L_0 D-FRICT=14 LeftWall_29
79 : CHANGE BNA3(2)_335_337_L_0 D-FRICT=30 LeftWall_29
```

```
80 : CHANGE BNA3(3)_336_338_L_0 D-FRICT=25 LeftWall_29
81 : CHANGE FRANA_334_8_L_0 D-COHE=0 LeftWall_29
82 : CHANGE BNA3(2)_335_337_L_0 D-COHE=2.5 LeftWall_29
83 : CHANGE BNA3(3)_336_338_L_0 D-COHE=30 LeftWall_29
84 : SETWALL LeftWall_29
85 : GEOM 2 -2
86 : WATER -30 0 -16 0 0
87 : ADD Tieback_341
88 : ENDSTEP
89 : STEP Stage4_1238
90 : CHANGE FRANA_334_8_L_0 D-FRICT=14 LeftWall_29
91 : CHANGE BNA3(2)_335_337_L_0 D-FRICT=30 LeftWall_29
92 : CHANGE BNA3(3)_336_338_L_0 D-FRICT=25 LeftWall_29
93 : CHANGE FRANA_334_8_L_0 D-COHE=0 LeftWall_29
94 : CHANGE BNA3(2)_335_337_L_0 D-COHE=2.5 LeftWall_29
95 : CHANGE BNA3(3)_336_338_L_0 D-COHE=30 LeftWall_29
96 : SETWALL LeftWall_29
97 : GEOM 2 -6
98 : WATER -30 0 -16 0 0
99 : ENDSTEP
100 : STEP Tirante2_1685
101 : CHANGE FRANA_334_8_L_0 D-FRICT=14 LeftWall_29
102 : CHANGE BNA3(2)_335_337_L_0 D-FRICT=30 LeftWall_29
103 : CHANGE BNA3(3)_336_338_L_0 D-FRICT=25 LeftWall_29
104 : CHANGE FRANA_334_8_L_0 D-COHE=0 LeftWall_29
105 : CHANGE BNA3(2)_335_337_L_0 D-COHE=2.5 LeftWall_29
106 : CHANGE BNA3(3)_336_338_L_0 D-COHE=30 LeftWall_29
107 : SETWALL LeftWall_29
108 : GEOM 2 -6
109 : WATER -30 0 -16 0 0
110 : ADD Tieback_342
111 : ENDSTEP
112 : STEP Fondoscavo_2741
113 : CHANGE FRANA_334_8_L_0 D-FRICT=14 LeftWall_29
114 : CHANGE BNA3(2)_335_337_L_0 D-FRICT=30 LeftWall_29
115 : CHANGE BNA3(3)_336_338_L_0 D-FRICT=25 LeftWall_29
116 : CHANGE FRANA_334_8_L_0 D-COHE=0 LeftWall_29
117 : CHANGE BNA3(2)_335_337_L_0 D-COHE=2.5 LeftWall_29
118 : CHANGE BNA3(3)_336_338_L_0 D-COHE=30 LeftWall_29
119 : SETWALL LeftWall_29
120 : GEOM 2 -7.1
121 : WATER -30 0 -16 0 0
122 : ENDSTEP
```

```

+-----+
|          PARATIE PLUS 2014 NLS ENGINE RELEASE  2016  FULL VERSION  *Build date: Sept23, 2015*          |
|                                                                                                     |
|                               NewProject.BaseDesignSection_25.Nominal_60                               |
|                               Exe Time :29 June 2020    20:30:03                                   |
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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	0.0000	2.0000 /	2	0.0000	1.8000 /	3	0.0000	1.6000 /	4	0.0000	1.4000 /
5	0.0000	1.2000 /	6	0.0000	1.0000 /	7	0.0000	0.80000 /	8	0.0000	0.60000 /
9	0.0000	0.40000 /	10	0.0000	0.20000 /	11	0.0000	-1.49012E-07 /	12	0.0000	-0.20000 /
13	0.0000	-0.40000 /	14	0.0000	-0.60000 /	15	0.0000	-0.80000 /	16	0.0000	-1.0000 /
17	0.0000	-1.2000 /	18	0.0000	-1.4000 /	19	0.0000	-1.6000 /	20	0.0000	-1.8000 /
21	0.0000	-2.0000 /	22	0.0000	-2.2000 /	23	0.0000	-2.4000 /	24	0.0000	-2.6000 /
25	0.0000	-2.8000 /	26	0.0000	-3.0000 /	27	0.0000	-3.2000 /	28	0.0000	-3.4000 /
29	0.0000	-3.6000 /	30	0.0000	-3.8000 /	31	0.0000	-4.0000 /	32	0.0000	-4.2000 /
33	0.0000	-4.4000 /	34	0.0000	-4.6000 /	35	0.0000	-4.8000 /	36	0.0000	-5.0000 /
37	0.0000	-5.2000 /	38	0.0000	-5.4000 /	39	0.0000	-5.6000 /	40	0.0000	-5.8000 /
41	0.0000	-6.0000 /	42	0.0000	-6.2000 /	43	0.0000	-6.4000 /	44	0.0000	-6.6000 /
45	0.0000	-6.8000 /	46	0.0000	-7.0000 /	47	0.0000	-7.2000 /	48	0.0000	-7.4000 /
49	0.0000	-7.6000 /	50	0.0000	-7.8000 /	51	0.0000	-8.0000 /	52	0.0000	-8.2000 /
53	0.0000	-8.4000 /	54	0.0000	-8.6000 /	55	0.0000	-8.8000 /	56	0.0000	-9.0000 /
57	0.0000	-9.2000 /	58	0.0000	-9.4000 /	59	0.0000	-9.6000 /	60	0.0000	-9.8000 /
61	0.0000	-10.000 /	62	0.0000	-10.200 /	63	0.0000	-10.400 /	64	0.0000	-10.600 /
65	0.0000	-10.800 /	66	0.0000	-11.000 /	67	0.0000	-11.200 /	68	0.0000	-11.400 /
69	0.0000	-11.600 /	70	0.0000	-11.800 /	71	0.0000	-12.000 /	72	0.0000	-12.200 /
73	0.0000	-12.400 /	74	0.0000	-12.600 /	75	0.0000	-12.800 /	76	0.0000	-13.000 /
77	0.0000	-13.200 /	78	0.0000	-13.400 /	79	0.0000	-13.600 /	80	0.0000	-13.800 /
81	0.0000	-14.000 /	82	0.0000	-14.200 /	83	0.0000	-14.400 /	84	0.0000	-14.600 /
85	0.0000	-14.800 /	86	0.0000	-15.000 /	87	0.0000	-15.200 /	88	0.0000	-15.400 /
89	0.0000	-15.600 /	90	0.0000	-15.800 /	91	0.0000	-16.000 /			

```

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|          PARATIE PLUS 2014 NLS ENGINE RELEASE  2016  FULL VERSION  *Build date: Sept23, 2015*          |
|                                                                                                     |
|                                     NewProject.BaseDesignSection_25.Nominal_60                            |
|                                     Exe Time :29 June 2020      20:30:03                               |
+-----+

```

ELEMENT GROUP NO. 1

```

0_L
 5 91 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 3 0 0 0 0 0

```

```

.....2D PLASTIC SOIL .....

```

element group behaviour throughout stage analysis

stage status

```

-----
1 active
2 active
3 active
4 active
5 active
6 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	2	0.2000	0.000	0.000	0.000	1.000

42	42	2	0.2000	0.000	0.000	0.000	1.000
43	43	2	0.2000	0.000	0.000	0.000	1.000
44	44	2	0.2000	0.000	0.000	0.000	1.000
45	45	2	0.2000	0.000	0.000	0.000	1.000
46	46	2	0.2000	0.000	0.000	0.000	1.000
47	47	2	0.2000	0.000	0.000	0.000	1.000
48	48	2	0.2000	0.000	0.000	0.000	1.000
49	49	2	0.2000	0.000	0.000	0.000	1.000
50	50	2	0.2000	0.000	0.000	0.000	1.000
51	51	2	0.2000	0.000	0.000	0.000	1.000
52	52	2	0.2000	0.000	0.000	0.000	1.000
53	53	2	0.2000	0.000	0.000	0.000	1.000
54	54	2	0.2000	0.000	0.000	0.000	1.000
55	55	2	0.2000	0.000	0.000	0.000	1.000
56	56	2	0.2000	0.000	0.000	0.000	1.000
57	57	2	0.2000	0.000	0.000	0.000	1.000
58	58	2	0.2000	0.000	0.000	0.000	1.000
59	59	2	0.2000	0.000	0.000	0.000	1.000
60	60	2	0.2000	0.000	0.000	0.000	1.000
61	61	2	0.2000	0.000	0.000	0.000	1.000
62	62	2	0.2000	0.000	0.000	0.000	1.000
63	63	2	0.2000	0.000	0.000	0.000	1.000
64	64	2	0.2000	0.000	0.000	0.000	1.000
65	65	2	0.2000	0.000	0.000	0.000	1.000
66	66	2	0.2000	0.000	0.000	0.000	1.000
67	67	2	0.2000	0.000	0.000	0.000	1.000
68	68	2	0.2000	0.000	0.000	0.000	1.000
69	69	2	0.2000	0.000	0.000	0.000	1.000
70	70	2	0.2000	0.000	0.000	0.000	1.000
71	71	2	0.2000	0.000	0.000	0.000	1.000
72	72	2	0.2000	0.000	0.000	0.000	1.000
73	73	2	0.2000	0.000	0.000	0.000	1.000
74	74	2	0.2000	0.000	0.000	0.000	1.000
75	75	2	0.2000	0.000	0.000	0.000	1.000
76	76	2	0.2000	0.000	0.000	0.000	1.000
77	77	3	0.2000	0.000	0.000	0.000	1.000
78	78	3	0.2000	0.000	0.000	0.000	1.000
79	79	3	0.2000	0.000	0.000	0.000	1.000
80	80	3	0.2000	0.000	0.000	0.000	1.000
81	81	3	0.2000	0.000	0.000	0.000	1.000
82	82	3	0.2000	0.000	0.000	0.000	1.000
83	83	3	0.2000	0.000	0.000	0.000	1.000
84	84	3	0.2000	0.000	0.000	0.000	1.000
85	85	3	0.2000	0.000	0.000	0.000	1.000
86	86	3	0.2000	0.000	0.000	0.000	1.000
87	87	3	0.2000	0.000	0.000	0.000	1.000
88	88	3	0.2000	0.000	0.000	0.000	1.000
89	89	3	0.2000	0.000	0.000	0.000	1.000
90	90	3	0.2000	0.000	0.000	0.000	1.000
91	91	3	0.1000	0.000	0.000	0.000	1.000

```

+-----+
|          PARATIE PLUS 2014 NLS ENGINE RELEASE  2016  FULL VERSION  *Build date: Sept23, 2015*          |
|                                                                                                     |
|                                                                                                     |
|          NewProject.BaseDesignSection_25.Nominal_60          |
|          Exe Time :29 June 2020          20:30:03          |
+-----+

```

ELEMENT GROUP NO. 2

```

0_R          :
 5 91  0  1  0  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
5 active
6 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	2	0.2000	0.000	0.000	0.000	2.000

42	42	2	0.2000	0.000	0.000	0.000	2.000
43	43	2	0.2000	0.000	0.000	0.000	2.000
44	44	2	0.2000	0.000	0.000	0.000	2.000
45	45	2	0.2000	0.000	0.000	0.000	2.000
46	46	2	0.2000	0.000	0.000	0.000	2.000
47	47	2	0.2000	0.000	0.000	0.000	2.000
48	48	2	0.2000	0.000	0.000	0.000	2.000
49	49	2	0.2000	0.000	0.000	0.000	2.000
50	50	2	0.2000	0.000	0.000	0.000	2.000
51	51	2	0.2000	0.000	0.000	0.000	2.000
52	52	2	0.2000	0.000	0.000	0.000	2.000
53	53	2	0.2000	0.000	0.000	0.000	2.000
54	54	2	0.2000	0.000	0.000	0.000	2.000
55	55	2	0.2000	0.000	0.000	0.000	2.000
56	56	2	0.2000	0.000	0.000	0.000	2.000
57	57	2	0.2000	0.000	0.000	0.000	2.000
58	58	2	0.2000	0.000	0.000	0.000	2.000
59	59	2	0.2000	0.000	0.000	0.000	2.000
60	60	2	0.2000	0.000	0.000	0.000	2.000
61	61	2	0.2000	0.000	0.000	0.000	2.000
62	62	2	0.2000	0.000	0.000	0.000	2.000
63	63	2	0.2000	0.000	0.000	0.000	2.000
64	64	2	0.2000	0.000	0.000	0.000	2.000
65	65	2	0.2000	0.000	0.000	0.000	2.000
66	66	2	0.2000	0.000	0.000	0.000	2.000
67	67	2	0.2000	0.000	0.000	0.000	2.000
68	68	2	0.2000	0.000	0.000	0.000	2.000
69	69	2	0.2000	0.000	0.000	0.000	2.000
70	70	2	0.2000	0.000	0.000	0.000	2.000
71	71	2	0.2000	0.000	0.000	0.000	2.000
72	72	2	0.2000	0.000	0.000	0.000	2.000
73	73	2	0.2000	0.000	0.000	0.000	2.000
74	74	2	0.2000	0.000	0.000	0.000	2.000
75	75	2	0.2000	0.000	0.000	0.000	2.000
76	76	2	0.2000	0.000	0.000	0.000	2.000
77	77	3	0.2000	0.000	0.000	0.000	2.000
78	78	3	0.2000	0.000	0.000	0.000	2.000
79	79	3	0.2000	0.000	0.000	0.000	2.000
80	80	3	0.2000	0.000	0.000	0.000	2.000
81	81	3	0.2000	0.000	0.000	0.000	2.000
82	82	3	0.2000	0.000	0.000	0.000	2.000
83	83	3	0.2000	0.000	0.000	0.000	2.000
84	84	3	0.2000	0.000	0.000	0.000	2.000
85	85	3	0.2000	0.000	0.000	0.000	2.000
86	86	3	0.2000	0.000	0.000	0.000	2.000
87	87	3	0.2000	0.000	0.000	0.000	2.000
88	88	3	0.2000	0.000	0.000	0.000	2.000
89	89	3	0.2000	0.000	0.000	0.000	2.000
90	90	3	0.2000	0.000	0.000	0.000	2.000
91	91	3	0.1000	0.000	0.000	0.000	2.000

```
+-----+
|          PARATIE PLUS 2014 NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Sept23, 2015*          |
|                                                                                                     |
|                                                                                                     |
|                                                                                                     |
|          NewProject.BaseDesignSection_25.Nominal_60          |
|          Exe Time :29 June 2020          20:30:03          |
|                                                                                                     |
+-----+
```

ELEMENT GROUP NO. 3

```
WallElement_30
 2 90 0 1 0 0 0 0 0 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 active
 2 active
 3 active
 4 active
 5 active
 6 active
```

material set no. 1

```
prop( 1) young modulus      0.314800E+08
prop( 2) modification time  0.00000
prop( 3) new young modulus  0.00000
prop( 4) poisson ratio      0.00000
prop( 5) future .....0.294300E-43
```

no. of step variable items: 1

step inertia multiplier

```
-----
 1 1.000
 2 1.000
 3 1.000
 4 1.000
 5 1.000
 6 1.000
```

element data

```
-----
el  na  nb  mat  erc1  erc2  thick
-----
 1  1  2  1  0.000  0.000  0.7888
 2  2  3  1  0.000  0.000  0.7888
 3  3  4  1  0.000  0.000  0.7888
 4  4  5  1  0.000  0.000  0.7888
 5  5  6  1  0.000  0.000  0.7888
 6  6  7  1  0.000  0.000  0.7888
 7  7  8  1  0.000  0.000  0.7888
 8  8  9  1  0.000  0.000  0.7888
 9  9 10  1  0.000  0.000  0.7888
10 10 11  1  0.000  0.000  0.7888
11 11 12  1  0.000  0.000  0.7888
12 12 13  1  0.000  0.000  0.7888
13 13 14  1  0.000  0.000  0.7888
14 14 15  1  0.000  0.000  0.7888
15 15 16  1  0.000  0.000  0.7888
16 16 17  1  0.000  0.000  0.7888
17 17 18  1  0.000  0.000  0.7888
18 18 19  1  0.000  0.000  0.7888
19 19 20  1  0.000  0.000  0.7888
20 20 21  1  0.000  0.000  0.7888
21 21 22  1  0.000  0.000  0.7888
22 22 23  1  0.000  0.000  0.7888
23 23 24  1  0.000  0.000  0.7888
24 24 25  1  0.000  0.000  0.7888
25 25 26  1  0.000  0.000  0.7888
26 26 27  1  0.000  0.000  0.7888
27 27 28  1  0.000  0.000  0.7888
28 28 29  1  0.000  0.000  0.7888
29 29 30  1  0.000  0.000  0.7888
30 30 31  1  0.000  0.000  0.7888
31 31 32  1  0.000  0.000  0.7888
32 32 33  1  0.000  0.000  0.7888
33 33 34  1  0.000  0.000  0.7888
34 34 35  1  0.000  0.000  0.7888
35 35 36  1  0.000  0.000  0.7888
36 36 37  1  0.000  0.000  0.7888
37 37 38  1  0.000  0.000  0.7888
38 38 39  1  0.000  0.000  0.7888
39 39 40  1  0.000  0.000  0.7888
40 40 41  1  0.000  0.000  0.7888
41 41 42  1  0.000  0.000  0.7888
```


42	42	43	1	0.000	0.000	0.7888
43	43	44	1	0.000	0.000	0.7888
44	44	45	1	0.000	0.000	0.7888
45	45	46	1	0.000	0.000	0.7888
46	46	47	1	0.000	0.000	0.7888
47	47	48	1	0.000	0.000	0.7888
48	48	49	1	0.000	0.000	0.7888
49	49	50	1	0.000	0.000	0.7888
50	50	51	1	0.000	0.000	0.7888
51	51	52	1	0.000	0.000	0.7888
52	52	53	1	0.000	0.000	0.7888
53	53	54	1	0.000	0.000	0.7888
54	54	55	1	0.000	0.000	0.7888
55	55	56	1	0.000	0.000	0.7888
56	56	57	1	0.000	0.000	0.7888
57	57	58	1	0.000	0.000	0.7888
58	58	59	1	0.000	0.000	0.7888
59	59	60	1	0.000	0.000	0.7888
60	60	61	1	0.000	0.000	0.7888
61	61	62	1	0.000	0.000	0.7888
62	62	63	1	0.000	0.000	0.7888
63	63	64	1	0.000	0.000	0.7888
64	64	65	1	0.000	0.000	0.7888
65	65	66	1	0.000	0.000	0.7888
66	66	67	1	0.000	0.000	0.7888
67	67	68	1	0.000	0.000	0.7888
68	68	69	1	0.000	0.000	0.7888
69	69	70	1	0.000	0.000	0.7888
70	70	71	1	0.000	0.000	0.7888
71	71	72	1	0.000	0.000	0.7888
72	72	73	1	0.000	0.000	0.7888
73	73	74	1	0.000	0.000	0.7888
74	74	75	1	0.000	0.000	0.7888
75	75	76	1	0.000	0.000	0.7888
76	76	77	1	0.000	0.000	0.7888
77	77	78	1	0.000	0.000	0.7888
78	78	79	1	0.000	0.000	0.7888
79	79	80	1	0.000	0.000	0.7888
80	80	81	1	0.000	0.000	0.7888
81	81	82	1	0.000	0.000	0.7888
82	82	83	1	0.000	0.000	0.7888
83	83	84	1	0.000	0.000	0.7888
84	84	85	1	0.000	0.000	0.7888
85	85	86	1	0.000	0.000	0.7888
86	86	87	1	0.000	0.000	0.7888
87	87	88	1	0.000	0.000	0.7888
88	88	89	1	0.000	0.000	0.7888
89	89	90	1	0.000	0.000	0.7888
90	90	91	1	0.000	0.000	0.7888

```

+-----+
|          PARATIE PLUS 2014 NLS ENGINE RELEASE  2016  FULL VERSION  *Build date: Sept23, 2015*          |
|                                                                                                                                            |
|                                                                 NewProject.BaseDesignSection_25.Nominal_60                               |
|                                                                 Exe Time :29 June 2020      20:30:03                               |
+-----+

```

ELEMENT GROUP NO. 4

```

Tieback_341
6 1 0 1 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 2 0

```

```

.....
.....2D POST-TENSION ANCHOR.....
.....

```

element group behaviour throughout stage analysis

```

stage  status
-----
1  inactive
2  inactive
3  active
4  active
5  active
6  active

```

material set no. 1

```

prop( 1) angle          20.0000
prop( 2) young modulus  0.200100E+09
prop( 3) modification time 0.000000
prop( 4) new young modulus 0.000000

```

no. of step variable items: 2

```

step  -ve lim  +ve lim
-----
1  0.000  0.000
2  0.000  0.000
3  0.000  0.000
4  0.000  0.000
5  0.000  0.000
6  0.000  0.000

```

element data

```

el  n  mat      a/l    pinit  yieldc  yieldt
-----
1  16  1    0.6096E-05  55.56   0.000   0.000

```

```

+-----+
|          PARATIE PLUS 2014 NLS ENGINE RELEASE  2016  FULL VERSION  *Build date: Sept23, 2015*          |
|                                                                                                                                            |
|                                                                 NewProject.BaseDesignSection_25.Nominal_60                               |
|                                                                 Exe Time :29 June 2020      20:30:03                               |
+-----+

```

ELEMENT GROUP NO. 5

```

Tieback_342
6 1 0 1 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 2 0

```

```

.....
.....2D POST-TENSION ANCHOR.....
.....

```

element group behaviour throughout stage analysis

stage status

```

-----
1 inactive
2 inactive
3 inactive
4 inactive
5 active
6 active

```

material set no. 1

```

prop( 1) angle          20.0000
prop( 2) young modulus  0.200100E+09
prop( 3) modification time 0.000000
prop( 4) new young modulus 0.000000

```

no. of step variable items: 2

```

step  -ve lim  +ve lim
-----
1  0.000  0.000
2  0.000  0.000
3  0.000  0.000
4  0.000  0.000
5  0.000  0.000
6  0.000  0.000

```

element data

```

el  n  mat      a/l    pinit   yieldc   yieldt
-----
1  36  1    0.7722E-05  55.56   0.000   0.000

```

```
+-----+
|          PARATIE PLUS 2014 NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Sept23, 2015*          |
|                                                                                                                                            |
|                               NewProject.BaseDesignSection_25.Nominal_60                               |
|                               Exe Time :29 June 2020      20:30:03                               |
+-----+
```

```
NO. OF NODAL LOADS (NLOAD) ..... 0
NO. OF LOAD CURVES (NLCUR) ..... 12
MAXIMUM POINTS/LCURVE (NPTM)..... 5
```

```

+-----+
|          PARATIE PLUS 2014 NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Sept23, 2015*          |
|                                                                                                    |
|                               NewProject.BaseDesignSection_25.Nominal_60                               |
|                               Exe Time :29 June 2020      20:30:03                               |
+-----+

```

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
7.00000	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
7.00000	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
7.00000	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
7.00000	0.0000E+00

LOAD FUNCTION NUMBER = 5
NUMBER OF TIME POINTS = 5

TIME VALUE	FUNCTION
0.00000	0.0000E+00
4.80000	0.0000E+00
5.00000	0.1000E+01
5.20000	0.0000E+00
7.00000	0.0000E+00

LOAD FUNCTION NUMBER = 6
NUMBER OF TIME POINTS = 5

TIME VALUE	FUNCTION
0.00000	0.0000E+00
5.80000	0.0000E+00
6.00000	0.1000E+01
6.20000	0.0000E+00
7.00000	0.0000E+00

LOAD FUNCTION NUMBER = 7

NUMBER OF TIME POINTS = 4

TIME VALUE	FUNCTION
0.00000	0.0000E+00
0.80000	0.0000E+00
1.00000	0.1000E+01
7.00000	0.1000E+01

LOAD FUNCTION NUMBER = 8
NUMBER OF TIME POINTS = 4

TIME VALUE	FUNCTION
0.00000	0.0000E+00
1.80000	0.0000E+00
2.00000	0.1000E+01
7.00000	0.1000E+01

LOAD FUNCTION NUMBER = 9
NUMBER OF TIME POINTS = 4

TIME VALUE	FUNCTION
0.00000	0.0000E+00
2.80000	0.0000E+00
3.00000	0.1000E+01
7.00000	0.1000E+01

LOAD FUNCTION NUMBER = 10
NUMBER OF TIME POINTS = 4

TIME VALUE	FUNCTION
0.00000	0.0000E+00
3.80000	0.0000E+00
4.00000	0.1000E+01
7.00000	0.1000E+01

LOAD FUNCTION NUMBER = 11
NUMBER OF TIME POINTS = 4

TIME VALUE	FUNCTION
0.00000	0.0000E+00
4.80000	0.0000E+00
5.00000	0.1000E+01
7.00000	0.1000E+01

LOAD FUNCTION NUMBER = 12
NUMBER OF TIME POINTS = 4

TIME VALUE	FUNCTION
0.00000	0.0000E+00
5.80000	0.0000E+00
6.00000	0.1000E+01
7.00000	0.1000E+01

NO. OF DISTRIBUTED LOAD CARDS 0

```

+-----+
|          PARATIE PLUS 2014 NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Sept23, 2015*          |
|                                                                                                    |
|                               NewProject.BaseDesignSection_25.Nominal_60                            |
|                               Exe Time :29 June 2020      20:30:03                                |
+-----+

```

```

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

STEP 5 TOTAL APPLIED LOAD IN DIR. 2 Y-DISPL.F 0.0000000
STEP 5 TOTAL APPLIED LOAD IN DIR. 4 X-ROT. F 0.0000000

STEP 6 TOTAL APPLIED LOAD IN DIR. 2 Y-DISPL.F 0.0000000
STEP 6 TOTAL APPLIED LOAD IN DIR. 4 X-ROT. F 0.0000000

```

LOAD INPUT SECTION COMPLETED

```
+-----+
|          PARATIE PLUS 2014 NLS ENGINE RELEASE  2016  FULL VERSION  *Build date: Sept23, 2015*          |
|                                                                                                                                            |
|                               NewProject.BaseDesignSection_25.Nominal_60                               |
|                               Exe Time :29 June 2020    20:30:03                               |
+-----+
```

```
NO. OF LAYERS ..... 3
NO. OF DATA PER LAYER..... 100
```



```

+-----+
|                PARATIE PLUS 2014 NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Sept23, 2015*                |
|                                                                                                                                            |
|                                                                 NewProject.BaseDesignSection_25.Nominal_60                               |
|                                                                 Exe Time :29 June 2020      20:30:03                               |
+-----+

```

LAYER DESCRIPTORS FOR STEP NO. 1

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

```

ITEM NO. 1<NAME      >= 16.000    (BOTH WALLS)
ITEM NO. 2<NATURE   >= 1.0000   (BOTH WALLS)
ITEM NO. 3<LEVEL    >= 2.0000   (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. 9<U-FRICT  >= 14.000   (BOTH WALLS)
ITEM NO. 10<U-KA    >= 0.61000  WALL NO.      1
ITEM NO. 11<U-KP    >= 1.8500   WALL NO.      1
ITEM NO. 12<K0-NC   >= 0.75800  (BOTH WALLS)
ITEM NO. 13<NEXP    >= 1.0000   (BOTH WALLS)
ITEM NO. 14<OCR     >= 1.0000   (BOTH WALLS)
ITEM NO. 16<MODEL   >= 1.0000   (BOTH WALLS)
ITEM NO. 17<EVC     >= 15000.   (BOTH WALLS)
ITEM NO. 18<EUR     >= 24000.   (BOTH WALLS)
ITEM NO. 27<U-PERM  >= 0.10000E-04 (BOTH WALLS)
ITEM NO. 52<D-NATURE>= 1.0000   (BOTH WALLS)
ITEM NO. 53<D-LEVEL >= 0.0000   (BOTH WALLS)
ITEM NO. 59<D-FRICT >= 14.000   (BOTH WALLS)
ITEM NO. 60<D-KA    >= 0.61000  WALL NO.      1
ITEM NO. 61<D-KP    >= 1.8500   WALL NO.      1
ITEM NO. 77<D-PERM  >= 0.10000E-04 (BOTH WALLS)

```

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

```

ITEM NO. 1<NAME      >= 17.000    (BOTH WALLS)
ITEM NO. 2<NATURE   >= 1.0000   (BOTH WALLS)
ITEM NO. 3<LEVEL    >= -2.0000  (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   >= 2.5000   (BOTH WALLS)
ITEM NO. 9<U-FRICT  >= 30.000   (BOTH WALLS)
ITEM NO. 10<U-KA    >= 0.33300  WALL NO.      1
ITEM NO. 11<U-KP    >= 4.2880   WALL NO.      1
ITEM NO. 12<K0-NC   >= 0.50000  (BOTH WALLS)
ITEM NO. 13<NEXP    >= 1.0000   (BOTH WALLS)
ITEM NO. 14<OCR     >= 1.0000   (BOTH WALLS)
ITEM NO. 16<MODEL   >= 1.0000   (BOTH WALLS)
ITEM NO. 17<EVC     >= 50000.   (BOTH WALLS)
ITEM NO. 18<EUR     >= 80000.   (BOTH WALLS)
ITEM NO. 27<U-PERM  >= 0.10000E-04 (BOTH WALLS)
ITEM NO. 52<D-NATURE>= 1.0000   (BOTH WALLS)
ITEM NO. 53<D-LEVEL >= 0.0000   (BOTH WALLS)
ITEM NO. 58<D-COHE  >= 2.5000   (BOTH WALLS)
ITEM NO. 59<D-FRICT >= 30.000   (BOTH WALLS)
ITEM NO. 60<D-KA    >= 0.33300  WALL NO.      1
ITEM NO. 61<D-KP    >= 4.2880   WALL NO.      1
ITEM NO. 77<D-PERM  >= 0.10000E-04 (BOTH WALLS)

```

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

```

ITEM NO. 1<NAME      >= 18.000    (BOTH WALLS)
ITEM NO. 2<NATURE   >= 1.0000   (BOTH WALLS)
ITEM NO. 3<LEVEL    >= -13.000   (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   >= 30.000   (BOTH WALLS)
ITEM NO. 9<U-FRICT  >= 25.000   (BOTH WALLS)
ITEM NO. 10<U-KA    >= 0.40600  WALL NO.      1
ITEM NO. 11<U-KP    >= 3.2220   WALL NO.      1
ITEM NO. 12<K0-NC   >= 0.57700  (BOTH WALLS)
ITEM NO. 13<NEXP    >= 1.0000   (BOTH WALLS)
ITEM NO. 14<OCR     >= 1.0000   (BOTH WALLS)
ITEM NO. 16<MODEL   >= 1.0000   (BOTH WALLS)
ITEM NO. 17<EVC     >= 75000.   (BOTH WALLS)
ITEM NO. 18<EUR     >= 0.12000E+06 (BOTH WALLS)
ITEM NO. 27<U-PERM  >= 0.10000E-04 (BOTH WALLS)
ITEM NO. 52<D-NATURE>= 1.0000   (BOTH WALLS)
ITEM NO. 53<D-LEVEL >= 0.0000   (BOTH WALLS)
ITEM NO. 58<D-COHE  >= 30.000   (BOTH WALLS)
ITEM NO. 59<D-FRICT >= 25.000   (BOTH WALLS)
ITEM NO. 60<D-KA    >= 0.40600  WALL NO.      1

```

ITEM NO. 61<D-KP >= 3.2220 WALL NO. 1
ITEM NO. 77<D-PERM >= 0.10000E-04 (BOTH WALLS)

LAYER DESCRIPTORS FOR STEP NO. 2

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

ITEM NO. 1<NAME >= 16.000 (BOTH WALLS)
ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
ITEM NO. 3<LEVEL >= 2.0000 (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. 9<U-FRICT >= 14.000 (BOTH WALLS)
ITEM NO. 10<U-KA >= 0.61000 WALL NO. 1
ITEM NO. 11<U-KP >= 1.8500 WALL NO. 1
ITEM NO. 12<K0-NC >= 0.75800 (BOTH WALLS)
ITEM NO. 13<NEXP >= 1.0000 (BOTH WALLS)
ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)
ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)
ITEM NO. 17<EVC >= 15000. (BOTH WALLS)
ITEM NO. 18<EUR >= 24000. (BOTH WALLS)
ITEM NO. 27<U-PERM >= 0.10000E-04 (BOTH WALLS)
ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
ITEM NO. 59<D-FRICT >= 14.000 (BOTH WALLS)
ITEM NO. 60<D-KA >= 0.61000 WALL NO. 1
ITEM NO. 61<D-KP >= 1.8500 WALL NO. 1
ITEM NO. 77<D-PERM >= 0.10000E-04 (BOTH WALLS)

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

ITEM NO. 1<NAME >= 17.000 (BOTH WALLS)
ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
ITEM NO. 3<LEVEL >= -2.0000 (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 >= 2.5000 (BOTH WALLS)
ITEM NO. 9<U-FRICT >= 30.000 (BOTH WALLS)
ITEM NO. 10<U-KA >= 0.33300 WALL NO. 1
ITEM NO. 11<U-KP >= 4.2880 WALL NO. 1
ITEM NO. 12<K0-NC >= 0.50000 (BOTH WALLS)
ITEM NO. 13<NEXP >= 1.0000 (BOTH WALLS)
ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)
ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)
ITEM NO. 17<EVC >= 50000. (BOTH WALLS)
ITEM NO. 18<EUR >= 80000. (BOTH WALLS)
ITEM NO. 27<U-PERM >= 0.10000E-04 (BOTH WALLS)
ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
ITEM NO. 58<D-COHE >= 2.5000 (BOTH WALLS)
ITEM NO. 59<D-FRICT >= 30.000 (BOTH WALLS)
ITEM NO. 60<D-KA >= 0.33300 WALL NO. 1
ITEM NO. 61<D-KP >= 4.2880 WALL NO. 1
ITEM NO. 77<D-PERM >= 0.10000E-04 (BOTH WALLS)

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

ITEM NO. 1<NAME >= 18.000 (BOTH WALLS)
ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
ITEM NO. 3<LEVEL >= -13.000 (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 >= 30.000 (BOTH WALLS)
ITEM NO. 9<U-FRICT >= 25.000 (BOTH WALLS)
ITEM NO. 10<U-KA >= 0.40600 WALL NO. 1
ITEM NO. 11<U-KP >= 3.2220 WALL NO. 1
ITEM NO. 12<K0-NC >= 0.57700 (BOTH WALLS)
ITEM NO. 13<NEXP >= 1.0000 (BOTH WALLS)
ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)
ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)
ITEM NO. 17<EVC >= 75000. (BOTH WALLS)
ITEM NO. 18<EUR >= 0.12000E+06 (BOTH WALLS)
ITEM NO. 27<U-PERM >= 0.10000E-04 (BOTH WALLS)
ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
ITEM NO. 58<D-COHE >= 30.000 (BOTH WALLS)
ITEM NO. 59<D-FRICT >= 25.000 (BOTH WALLS)
ITEM NO. 60<D-KA >= 0.40600 WALL NO. 1
ITEM NO. 61<D-KP >= 3.2220 WALL NO. 1
ITEM NO. 77<D-PERM >= 0.10000E-04 (BOTH WALLS)

LAYER DESCRIPTORS FOR STEP NO. 3

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

ITEM NO. 1<NAME >= 16.000 (BOTH WALLS)
 ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
 ITEM NO. 3<LEVEL >= 2.0000 (BOTH WALLS)
 ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)
 ITEM NO. 5<GAMMAD >= 20.0000 (BOTH WALLS)
 ITEM NO. 6<GAMMAB >= 10.0000 (BOTH WALLS)
 ITEM NO. 7<GAMMAW >= 10.0000 (BOTH WALLS)
 ITEM NO. 9<U-FRICT >= 14.0000 (BOTH WALLS)
 ITEM NO. 10<U-KA >= 0.61000 WALL NO. 1
 ITEM NO. 11<U-KP >= 1.8500 WALL NO. 1
 ITEM NO. 12<K0-NC >= 0.75800 (BOTH WALLS)
 ITEM NO. 13<NEXP >= 1.0000 (BOTH WALLS)
 ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)
 ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)
 ITEM NO. 17<EVC >= 15000. (BOTH WALLS)
 ITEM NO. 18<EUR >= 24000. (BOTH WALLS)
 ITEM NO. 27<U-PERM >= 0.10000E-04 (BOTH WALLS)
 ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
 ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
 ITEM NO. 59<D-FRICT >= 14.000 (BOTH WALLS)
 ITEM NO. 60<D-KA >= 0.61000 WALL NO. 1
 ITEM NO. 61<D-KP >= 1.8500 WALL NO. 1
 ITEM NO. 77<D-PERM >= 0.10000E-04 (BOTH WALLS)

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

ITEM NO. 1<NAME >= 17.000 (BOTH WALLS)
 ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
 ITEM NO. 3<LEVEL >= -2.0000 (BOTH WALLS)
 ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)
 ITEM NO. 5<GAMMAD >= 20.0000 (BOTH WALLS)
 ITEM NO. 6<GAMMAB >= 10.0000 (BOTH WALLS)
 ITEM NO. 7<GAMMAW >= 10.0000 (BOTH WALLS)
 ITEM NO. 8<U-COHE >= 2.5000 (BOTH WALLS)
 ITEM NO. 9<U-FRICT >= 30.0000 (BOTH WALLS)
 ITEM NO. 10<U-KA >= 0.33300 WALL NO. 1
 ITEM NO. 11<U-KP >= 4.2880 WALL NO. 1
 ITEM NO. 12<K0-NC >= 0.50000 (BOTH WALLS)
 ITEM NO. 13<NEXP >= 1.0000 (BOTH WALLS)
 ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)
 ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)
 ITEM NO. 17<EVC >= 50000. (BOTH WALLS)
 ITEM NO. 18<EUR >= 80000. (BOTH WALLS)
 ITEM NO. 27<U-PERM >= 0.10000E-04 (BOTH WALLS)
 ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
 ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
 ITEM NO. 58<D-COHE >= 2.5000 (BOTH WALLS)
 ITEM NO. 59<D-FRICT >= 30.0000 (BOTH WALLS)
 ITEM NO. 60<D-KA >= 0.33300 WALL NO. 1
 ITEM NO. 61<D-KP >= 4.2880 WALL NO. 1
 ITEM NO. 77<D-PERM >= 0.10000E-04 (BOTH WALLS)

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

ITEM NO. 1<NAME >= 18.000 (BOTH WALLS)
 ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
 ITEM NO. 3<LEVEL >= -13.0000 (BOTH WALLS)
 ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)
 ITEM NO. 5<GAMMAD >= 20.0000 (BOTH WALLS)
 ITEM NO. 6<GAMMAB >= 10.0000 (BOTH WALLS)
 ITEM NO. 7<GAMMAW >= 10.0000 (BOTH WALLS)
 ITEM NO. 8<U-COHE >= 30.0000 (BOTH WALLS)
 ITEM NO. 9<U-FRICT >= 25.0000 (BOTH WALLS)
 ITEM NO. 10<U-KA >= 0.40600 WALL NO. 1
 ITEM NO. 11<U-KP >= 3.2220 WALL NO. 1
 ITEM NO. 12<K0-NC >= 0.57700 (BOTH WALLS)
 ITEM NO. 13<NEXP >= 1.0000 (BOTH WALLS)
 ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)
 ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)
 ITEM NO. 17<EVC >= 75000. (BOTH WALLS)
 ITEM NO. 18<EUR >= 0.12000E+06 (BOTH WALLS)
 ITEM NO. 27<U-PERM >= 0.10000E-04 (BOTH WALLS)
 ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
 ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
 ITEM NO. 58<D-COHE >= 30.0000 (BOTH WALLS)
 ITEM NO. 59<D-FRICT >= 25.0000 (BOTH WALLS)
 ITEM NO. 60<D-KA >= 0.40600 WALL NO. 1
 ITEM NO. 61<D-KP >= 3.2220 WALL NO. 1
 ITEM NO. 77<D-PERM >= 0.10000E-04 (BOTH WALLS)

LAYER DESCRIPTORS FOR STEP NO. 4

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

ITEM NO. 1<NAME >= 16.000 (BOTH WALLS)
 ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
 ITEM NO. 3<LEVEL >= 2.0000 (BOTH WALLS)
 ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)
 ITEM NO. 5<GAMMAD >= 20.0000 (BOTH WALLS)
 ITEM NO. 6<GAMMAB >= 10.0000 (BOTH WALLS)

ITEM NO. 7<GAMMAW >= 10.000 (BOTH WALLS)
 ITEM NO. 9<U-FRICT >= 14.000 (BOTH WALLS)
 ITEM NO. 10<U-KA >= 0.61000 WALL NO. 1
 ITEM NO. 11<U-KP >= 1.8500 WALL NO. 1
 ITEM NO. 12<K0-NC >= 0.75800 (BOTH WALLS)
 ITEM NO. 13<NEXP >= 1.0000 (BOTH WALLS)
 ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)
 ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)
 ITEM NO. 17<EVC >= 15000. (BOTH WALLS)
 ITEM NO. 18<EUR >= 24000. (BOTH WALLS)
 ITEM NO. 27<U-PERM >= 0.10000E-04 (BOTH WALLS)
 ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
 ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
 ITEM NO. 59<D-FRICT >= 14.000 (BOTH WALLS)
 ITEM NO. 60<D-KA >= 0.61000 WALL NO. 1
 ITEM NO. 61<D-KP >= 1.8500 WALL NO. 1
 ITEM NO. 77<D-PERM >= 0.10000E-04 (BOTH WALLS)

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

ITEM NO. 1<NAME >= 17.000 (BOTH WALLS)
 ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
 ITEM NO. 3<LEVEL >= -2.0000 (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 >= 2.5000 (BOTH WALLS)
 ITEM NO. 9<U-FRICT >= 30.000 (BOTH WALLS)
 ITEM NO. 10<U-KA >= 0.33300 WALL NO. 1
 ITEM NO. 11<U-KP >= 4.2880 WALL NO. 1
 ITEM NO. 12<K0-NC >= 0.50000 (BOTH WALLS)
 ITEM NO. 13<NEXP >= 1.0000 (BOTH WALLS)
 ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)
 ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)
 ITEM NO. 17<EVC >= 50000. (BOTH WALLS)
 ITEM NO. 18<EUR >= 80000. (BOTH WALLS)
 ITEM NO. 27<U-PERM >= 0.10000E-04 (BOTH WALLS)
 ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
 ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
 ITEM NO. 58<D-COHE >= 2.5000 (BOTH WALLS)
 ITEM NO. 59<D-FRICT >= 30.000 (BOTH WALLS)
 ITEM NO. 60<D-KA >= 0.33300 WALL NO. 1
 ITEM NO. 61<D-KP >= 4.2880 WALL NO. 1
 ITEM NO. 77<D-PERM >= 0.10000E-04 (BOTH WALLS)

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

ITEM NO. 1<NAME >= 18.000 (BOTH WALLS)
 ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
 ITEM NO. 3<LEVEL >= -13.000 (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 >= 30.000 (BOTH WALLS)
 ITEM NO. 9<U-FRICT >= 25.000 (BOTH WALLS)
 ITEM NO. 10<U-KA >= 0.40600 WALL NO. 1
 ITEM NO. 11<U-KP >= 3.2220 WALL NO. 1
 ITEM NO. 12<K0-NC >= 0.57700 (BOTH WALLS)
 ITEM NO. 13<NEXP >= 1.0000 (BOTH WALLS)
 ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)
 ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)
 ITEM NO. 17<EVC >= 75000. (BOTH WALLS)
 ITEM NO. 18<EUR >= 0.12000E+06 (BOTH WALLS)
 ITEM NO. 27<U-PERM >= 0.10000E-04 (BOTH WALLS)
 ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
 ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
 ITEM NO. 58<D-COHE >= 30.000 (BOTH WALLS)
 ITEM NO. 59<D-FRICT >= 25.000 (BOTH WALLS)
 ITEM NO. 60<D-KA >= 0.40600 WALL NO. 1
 ITEM NO. 61<D-KP >= 3.2220 WALL NO. 1
 ITEM NO. 77<D-PERM >= 0.10000E-04 (BOTH WALLS)

LAYER DESCRIPTORS FOR STEP NO. 5

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 1 FOR STEP NO. 5

ITEM NO. 1<NAME >= 16.000 (BOTH WALLS)
 ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
 ITEM NO. 3<LEVEL >= 2.0000 (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. 9<U-FRICT >= 14.000 (BOTH WALLS)
 ITEM NO. 10<U-KA >= 0.61000 WALL NO. 1
 ITEM NO. 11<U-KP >= 1.8500 WALL NO. 1
 ITEM NO. 12<K0-NC >= 0.75800 (BOTH WALLS)
 ITEM NO. 13<NEXP >= 1.0000 (BOTH WALLS)
 ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)

ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)
 ITEM NO. 17<EVC >= 15000. (BOTH WALLS)
 ITEM NO. 18<EUR >= 24000. (BOTH WALLS)
 ITEM NO. 27<U-PERM >= 0.10000E-04 (BOTH WALLS)
 ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
 ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
 ITEM NO. 59<D-FRICT >= 14.000 (BOTH WALLS)
 ITEM NO. 60<D-KA >= 0.61000 WALL NO. 1
 ITEM NO. 61<D-KP >= 1.8500 WALL NO. 1
 ITEM NO. 77<D-PERM >= 0.10000E-04 (BOTH WALLS)

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 2 FOR STEP NO. 5

ITEM NO. 1<NAME >= 17.000 (BOTH WALLS)
 ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
 ITEM NO. 3<LEVEL >= -2.0000 (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 >= 2.5000 (BOTH WALLS)
 ITEM NO. 9<U-FRICT >= 30.000 (BOTH WALLS)
 ITEM NO. 10<U-KA >= 0.33300 WALL NO. 1
 ITEM NO. 11<U-KP >= 4.2880 WALL NO. 1
 ITEM NO. 12<K0-NC >= 0.50000 (BOTH WALLS)
 ITEM NO. 13<NEXP >= 1.0000 (BOTH WALLS)
 ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)
 ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)
 ITEM NO. 17<EVC >= 50000. (BOTH WALLS)
 ITEM NO. 18<EUR >= 80000. (BOTH WALLS)
 ITEM NO. 27<U-PERM >= 0.10000E-04 (BOTH WALLS)
 ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
 ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
 ITEM NO. 58<D-COHE >= 2.5000 (BOTH WALLS)
 ITEM NO. 59<D-FRICT >= 30.000 (BOTH WALLS)
 ITEM NO. 60<D-KA >= 0.33300 WALL NO. 1
 ITEM NO. 61<D-KP >= 4.2880 WALL NO. 1
 ITEM NO. 77<D-PERM >= 0.10000E-04 (BOTH WALLS)

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 3 FOR STEP NO. 5

ITEM NO. 1<NAME >= 18.000 (BOTH WALLS)
 ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
 ITEM NO. 3<LEVEL >= -13.000 (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 >= 30.000 (BOTH WALLS)
 ITEM NO. 9<U-FRICT >= 25.000 (BOTH WALLS)
 ITEM NO. 10<U-KA >= 0.40600 WALL NO. 1
 ITEM NO. 11<U-KP >= 3.2220 WALL NO. 1
 ITEM NO. 12<K0-NC >= 0.57700 (BOTH WALLS)
 ITEM NO. 13<NEXP >= 1.0000 (BOTH WALLS)
 ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)
 ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)
 ITEM NO. 17<EVC >= 75000. (BOTH WALLS)
 ITEM NO. 18<EUR >= 0.12000E+06 (BOTH WALLS)
 ITEM NO. 27<U-PERM >= 0.10000E-04 (BOTH WALLS)
 ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
 ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
 ITEM NO. 58<D-COHE >= 30.000 (BOTH WALLS)
 ITEM NO. 59<D-FRICT >= 25.000 (BOTH WALLS)
 ITEM NO. 60<D-KA >= 0.40600 WALL NO. 1
 ITEM NO. 61<D-KP >= 3.2220 WALL NO. 1
 ITEM NO. 77<D-PERM >= 0.10000E-04 (BOTH WALLS)

LAYER DESCRIPTORS FOR STEP NO. 6

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 1 FOR STEP NO. 6

ITEM NO. 1<NAME >= 16.000 (BOTH WALLS)
 ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
 ITEM NO. 3<LEVEL >= 2.0000 (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. 9<U-FRICT >= 14.000 (BOTH WALLS)
 ITEM NO. 10<U-KA >= 0.61000 WALL NO. 1
 ITEM NO. 11<U-KP >= 1.8500 WALL NO. 1
 ITEM NO. 12<K0-NC >= 0.75800 (BOTH WALLS)
 ITEM NO. 13<NEXP >= 1.0000 (BOTH WALLS)
 ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)
 ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)
 ITEM NO. 17<EVC >= 15000. (BOTH WALLS)
 ITEM NO. 18<EUR >= 24000. (BOTH WALLS)
 ITEM NO. 27<U-PERM >= 0.10000E-04 (BOTH WALLS)
 ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
 ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
 ITEM NO. 59<D-FRICT >= 14.000 (BOTH WALLS)

ITEM NO. 60<D-KA >= 0.61000 WALL NO. 1
 ITEM NO. 61<D-KP >= 1.8500 WALL NO. 1
 ITEM NO. 77<D-PERM >= 0.10000E-04 (BOTH WALLS)

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 2 FOR STEP NO. 6

ITEM NO. 1<NAME >= 17.000 (BOTH WALLS)
 ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
 ITEM NO. 3<LEVEL >= -2.0000 (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 >= 2.5000 (BOTH WALLS)
 ITEM NO. 9<U-FRICT >= 30.000 (BOTH WALLS)
 ITEM NO. 10<U-KA >= 0.33300 WALL NO. 1
 ITEM NO. 11<U-KP >= 4.2880 WALL NO. 1
 ITEM NO. 12<K0-NC >= 0.50000 (BOTH WALLS)
 ITEM NO. 13<NEXP >= 1.0000 (BOTH WALLS)
 ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)
 ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)
 ITEM NO. 17<EVC >= 50000. (BOTH WALLS)
 ITEM NO. 18<EUR >= 80000. (BOTH WALLS)
 ITEM NO. 27<U-PERM >= 0.10000E-04 (BOTH WALLS)
 ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
 ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
 ITEM NO. 58<D-COHE >= 2.5000 (BOTH WALLS)
 ITEM NO. 59<D-FRICT >= 30.000 (BOTH WALLS)
 ITEM NO. 60<D-KA >= 0.33300 WALL NO. 1
 ITEM NO. 61<D-KP >= 4.2880 WALL NO. 1
 ITEM NO. 77<D-PERM >= 0.10000E-04 (BOTH WALLS)

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 3 FOR STEP NO. 6

ITEM NO. 1<NAME >= 18.000 (BOTH WALLS)
 ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
 ITEM NO. 3<LEVEL >= -13.000 (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 >= 30.000 (BOTH WALLS)
 ITEM NO. 9<U-FRICT >= 25.000 (BOTH WALLS)
 ITEM NO. 10<U-KA >= 0.40600 WALL NO. 1
 ITEM NO. 11<U-KP >= 3.2220 WALL NO. 1
 ITEM NO. 12<K0-NC >= 0.57700 (BOTH WALLS)
 ITEM NO. 13<NEXP >= 1.0000 (BOTH WALLS)
 ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)
 ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)
 ITEM NO. 17<EVC >= 75000. (BOTH WALLS)
 ITEM NO. 18<EUR >= 0.12000E+06 (BOTH WALLS)
 ITEM NO. 27<U-PERM >= 0.10000E-04 (BOTH WALLS)
 ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
 ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
 ITEM NO. 58<D-COHE >= 30.000 (BOTH WALLS)
 ITEM NO. 59<D-FRICT >= 25.000 (BOTH WALLS)
 ITEM NO. 60<D-KA >= 0.40600 WALL NO. 1
 ITEM NO. 61<D-KP >= 3.2220 WALL NO. 1
 ITEM NO. 77<D-PERM >= 0.10000E-04 (BOTH WALLS)

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|                PARATIE PLUS 2014 NLS ENGINE RELEASE  2016  FULL VERSION  *Build date: Sept23, 2015*                |
|                                                                                                                                            |
|                NewProject.BaseDesignSection_25.Nominal_60                                                                              |
|                Exe Time :29 June 2020      20:30:03                                                                              |
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PHASE DESCRIPTORS

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STEP NO.      1

                LEFT WALL      RIGHT WALL
Y              0.000          -0.9990E+30
Z-PC           2.000           0.000
Z-EXCAVATION   2.000           0.000
Z-WATER_TABLE -30.00          -0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL 0.000           0.000
ZQ             0.000           0.000
DZW_OF_THE_WATER_TABLE 0.000           0.000
QS_ON_THE_EXCAVATION_SIDE 0.000           0.000
ZQS           -0.9990E+30     -0.9990E+30
ZCUT           0.000           0.000
BALANCE LEVEL FOR PORE PRESSURES -16.00          -16.00
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

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=====end of step 1

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STEP NO.      2

                LEFT WALL      RIGHT WALL
Y              0.000          -0.9990E+30
Z-PC           2.000           0.000
Z-EXCAVATION  -2.000           0.000
Z-WATER_TABLE -30.00          -0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL 0.000           0.000
ZQ             0.000           0.000
DZW_OF_THE_WATER_TABLE 0.000           0.000
QS_ON_THE_EXCAVATION_SIDE 0.000           0.000
ZQS           -0.9990E+30     -0.9990E+30
ZCUT           0.000           0.000
BALANCE LEVEL FOR PORE PRESSURES -16.00          -16.00
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

                LEFT WALL      RIGHT WALL
Y              0.000          -0.9990E+30

```

Z-PC	2.000	0.000
Z-EXCAVATION	-2.000	0.000
Z-WATER_TABLE	-30.00	-0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL	0.000	0.000
ZQ	0.000	0.000
DZW_OF_THE_WATER_TABLE	0.000	0.000
QS_ON_THE_EXCAVATION_SIDE	0.000	0.000
ZQS	-0.9990E+30	-0.9990E+30
ZCUT	0.000	0.000
BALANCE LEVEL FOR PORE PRESSURES	-16.00	-16.00
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		
		LEFT WALL	RIGHT WALL
Y		0.000	-0.9990E+30
Z-PC		2.000	0.000
Z-EXCAVATION		-6.000	0.000
Z-WATER_TABLE		-30.00	-0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL		0.000	0.000
ZQ		0.000	0.000
DZW_OF_THE_WATER_TABLE		0.000	0.000
QS_ON_THE_EXCAVATION_SIDE		0.000	0.000
ZQS		-0.9990E+30	-0.9990E+30
ZCUT		0.000	0.000
BALANCE LEVEL FOR PORE PRESSURES		-16.00	-16.00
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

STEP NO.	5		
		LEFT WALL	RIGHT WALL
Y		0.000	-0.9990E+30
Z-PC		2.000	0.000
Z-EXCAVATION		-6.000	0.000
Z-WATER_TABLE		-30.00	-0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL		0.000	0.000
ZQ		0.000	0.000
DZW_OF_THE_WATER_TABLE		0.000	0.000
QS_ON_THE_EXCAVATION_SIDE		0.000	0.000
ZQS		-0.9990E+30	-0.9990E+30
ZCUT		0.000	0.000
BALANCE LEVEL FOR PORE PRESSURES		-16.00	-16.00
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 5

STEP NO.	6		
		LEFT WALL	RIGHT WALL
Y		0.000	-0.9990E+30
Z-PC		2.000	0.000
Z-EXCAVATION		-7.100	0.000
Z-WATER_TABLE		-30.00	-0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL		0.000	0.000
ZQ		0.000	0.000
DZW_OF_THE_WATER_TABLE		0.000	0.000
QS_ON_THE_EXCAVATION_SIDE		0.000	0.000
ZQS		-0.9990E+30	-0.9990E+30
ZCUT		0.000	0.000
BALANCE LEVEL FOR PORE PRESSURES		-16.00	-16.00
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 6

LEFT-HAND WALL

LOWER LEVEL	-16.00000
UPPER LEVEL	2.00000

RIGHT-HAND WALL

LOWER LEVEL	-16.00000
UPPER LEVEL	2.00000

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+-----+
|          PARATIE PLUS 2014 NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Sept23, 2015*          |
|                                                                                                    |
|                               NewProject.BaseDesignSection_25.Nominal_60                            |
|                               Exe Time :29 June 2020      20:30:03                                |
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INITIAL STRESS TABLES

SECTION

NUMBER OF DEFINED TABLES 1

INPUT DATA FOR INITIAL STRESS SET NO. 1
 PERTAINING SOIL ELEMENTS AT Y-COORD 0.0000

ACTIVATION TIME 1.0000
 END TIME (TIME BEYOND WHICH IT IS REMOVED) 6.0000

TYPE BOUSSINESQ

HORIZONTAL DISTANCE (DY) 31.00000000000000
 FOUNDATION WIDTH (B) 30.50000000000000
 ZETA-F..... 2.00000000000000
 Q-F 25.60000000000000
 BETA 45.00000000000000
 BEHAVIOUR (0=FREE, 1=REFLECTING) 0.00000000000000E+000

ELEMENT GROUPS BACKUP AREA CAN STAY IN CORE AT
 POSITION 5603

NO. OF D.P.W FOR THIS AREA 8691
 MAX NO. OF D.P.W. AVAILABLE 81920
 ** MAX NO OF ITERATIONS SET TO 40

ITER 0 RNORM = 0.000 RMNORM= 0.000
 RINORM=0.9199E+05 RIMNOR= 0.000
 RENORM=0.1602E-28 REMNOR= 0.000 RATIO =0.1320E-16 TOLER =0.1000E-03 CONVERGED !
 RFMAX = 41.74 RMMAX = 0.000
 RTSMAL=0.1000E-03 RMSMAL= 0.000
 RDT =0.9199E+05 RDR = 0.000
 RATIOI=0.1320E-16 RATIOIR= 0.000
 MAX UN=0.2220E-15 IEQ= 5 NODE 3 DOF 1 Y-DISPL.F
 MIN UN=-.3553E-14 IEQ= 129 NODE 65 DOF 1 Y-DISPL.F
 NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 1 RNORM = 0.000 RMNORM= 0.000
 RINORM=0.9199E+05 RIMNOR= 0.000
 RENORM=0.4219E-30 REMNOR=0.8168E-53 RATIO =0.2141E-17 TOLER =0.1000E-03 CONVERGED !
 RFMAX = 41.74 RMMAX = 0.000
 RTSMAL=0.1000E-03 RMSMAL= 0.000
 RDT =0.9199E+05 RDR = 0.000
 RATIOI=0.2141E-17 RATIOIR= 0.000
 MAX UN=0.1770E-16 IEQ= 179 NODE 90 DOF 1 Y-DISPL.F
 MIN UN=-.1127E-15 IEQ= 129 NODE 65 DOF 1 Y-DISPL.F
 NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 2 RNORM = 0.000 RMNORM= 0.000
 RINORM=0.9199E+05 RIMNOR= 0.000
 RENORM=0.3707E-30 REMNOR=0.1617E-52 RATIO =0.2007E-17 TOLER =0.1000E-03 CONVERGED !
 RFMAX = 41.74 RMMAX = 0.000
 RTSMAL=0.1000E-03 RMSMAL= 0.000
 RDT =0.9199E+05 RDR = 0.000
 RATIOI=0.2007E-17 RATIOIR= 0.000
 MAX UN=0.1433E-26 IEQ= 32 NODE 16 DOF 2 X-ROT. F
 MIN UN=-.9695E-16 IEQ= 41 NODE 21 DOF 1 Y-DISPL.F
 NO. OF CONTACT CONSTRAINT VIOLATIONS 0

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|          PARATIE PLUS 2014 NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Sept23, 2015*          |
|                                                                                                                                            |
|                                                                 NewProject.BaseDesignSection_25.Nominal_60                               |
|                                                                 Exe Time :29 June 2020      20:30:03                               |
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New Project

SOLUTION REACHED USING 2 ITERATIONS ON 40

PRINT OUT FOR TIME STEP 1 (AT TIME 1.000)

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

Y-DISPL.F	X-ROT. F	(
(02)	(04)	

ALL NODAL POINTS HAVE ZERO DISPLACEMENT COMPONENTS

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|                PARATIE PLUS 2014 NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Sept23, 2015*                |
|                                                                                                          |
|                NewProject.BaseDesignSection_25.Nominal_60                                          |
|                Exe Time :29 June 2020      20:30:03                                          |
+-----+

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New Project

STRESS RESULTS FOR GROUP NO. 1

0_L :
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 91
CURRENT TIME IS 1.0000

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 LAYER	MAX-H-P	STATE	STIFFNESS	Z-LEVEL	PORE	E FAC-
1 D	0.000	3.1668E-20	0.000	0.000	0.000	0.000	V-C	8000.	2.000	0.000	
1.000	1.000	0.000	0.000	0.000	FRANA_334_8_L_0						
2 D	0.6168	3.0999E-20	4.000	3.084	4.000	3.084	V-C	8000.	1.800	0.000	
1.000	1.000	3.084	0.000	0.000	FRANA_334_8_L_0						
3 D	1.234	3.0329E-20	8.000	6.168	8.000	6.168	V-C	8000.	1.600	0.000	
1.000	1.000	6.168	0.000	0.000	FRANA_334_8_L_0						
4 D	1.850	2.9659E-20	12.00	9.252	12.00	9.252	V-C	8000.	1.400	0.000	
1.000	1.000	9.252	0.000	0.000	FRANA_334_8_L_0						
5 D	2.467	2.8986E-20	16.00	12.34	16.00	12.34	V-C	8000.	1.200	0.000	
1.000	1.000	12.34	0.000	0.000	FRANA_334_8_L_0						
6 D	3.084	2.8308E-20	20.00	15.42	20.00	15.42	V-C	8000.	1.000	0.000	
1.000	1.000	15.42	0.000	0.000	FRANA_334_8_L_0						
7 D	3.701	2.7624E-20	24.00	18.50	24.00	18.50	V-C	8000.	0.8000	0.000	
1.000	1.000	18.50	0.000	0.000	FRANA_334_8_L_0						
8 D	4.318	2.6935E-20	28.00	21.59	28.00	21.59	V-C	8000.	0.6000	0.000	
1.000	1.000	21.59	0.000	0.000	FRANA_334_8_L_0						
9 D	4.934	2.6239E-20	32.00	24.67	32.00	24.67	V-C	8000.	0.4000	0.000	
1.000	1.000	24.67	0.000	0.000	FRANA_334_8_L_0						
10 D	5.551	2.5537E-20	36.00	27.76	36.00	27.76	V-C	8000.	0.2000	0.000	
1.000	1.000	27.76	0.000	0.000	FRANA_334_8_L_0						
11 D	6.168	2.4826E-20	40.00	30.84	40.00	30.84	V-C	8000.	-1.4901E-07	0.000	
1.000	1.000	30.84	0.000	0.000	FRANA_334_8_L_0						
12 D	6.784	2.4105E-20	44.00	33.92	44.00	33.92	V-C	8000.	-0.2000	0.000	
1.000	1.000	33.92	0.000	0.000	FRANA_334_8_L_0						
13 D	7.401	2.3373E-20	48.00	37.01	48.00	37.01	V-C	8000.	-0.4000	0.000	
1.000	1.000	37.01	0.000	0.000	FRANA_334_8_L_0						
14 D	8.018	2.2628E-20	52.00	40.09	52.00	40.09	V-C	8000.	-0.6000	0.000	
1.000	1.000	40.09	0.000	0.000	FRANA_334_8_L_0						
15 D	8.634	2.1868E-20	56.00	43.17	56.00	43.17	V-C	8000.	-0.8000	0.000	
1.000	1.000	43.17	0.000	0.000	FRANA_334_8_L_0						
16 D	9.251	2.1090E-20	60.00	46.25	60.00	46.25	V-C	8000.	-1.000	0.000	
1.000	1.000	46.25	0.000	0.000	FRANA_334_8_L_0						
17 D	9.867	2.0291E-20	64.01	49.34	64.01	49.34	V-C	8000.	-1.200	0.000	
1.000	1.000	49.34	0.000	0.000	FRANA_334_8_L_0						
18 D	10.48	1.9472E-20	68.01	52.42	68.01	52.42	V-C	8000.	-1.400	0.000	
1.000	1.000	52.42	0.000	0.000	FRANA_334_8_L_0						
19 D	11.10	1.8637E-20	72.01	55.50	72.01	55.50	V-C	8000.	-1.600	0.000	
1.000	1.000	55.50	0.000	0.000	FRANA_334_8_L_0						
20 D	11.72	1.7795E-20	76.01	58.58	76.01	58.58	V-C	8000.	-1.800	0.000	
1.000	1.000	58.58	0.000	0.000	FRANA_334_8_L_0						
21 D	8.205	1.6954E-20	80.01	41.02	80.01	41.02	V-C	3.6084E+04	-2.000	0.000	
1.000	1.000	41.02	0.000	0.000	BNA3(2)_335_337_L_0						
22 D	8.614	1.6121E-20	84.01	43.07	84.01	43.07	V-C	3.6084E+04	-2.200	0.000	
1.000	1.000	43.07	0.000	0.000	BNA3(2)_335_337_L_0						
23 D	9.024	1.5303E-20	88.01	45.12	88.01	45.12	V-C	3.6084E+04	-2.400	0.000	
1.000	1.000	45.12	0.000	0.000	BNA3(2)_335_337_L_0						
24 D	9.434	1.4506E-20	92.02	47.17	92.02	47.17	V-C	3.6084E+04	-2.600	0.000	
1.000	1.000	47.17	0.000	0.000	BNA3(2)_335_337_L_0						
25 D	9.843	1.3735E-20	96.02	49.22	96.02	49.22	V-C	3.6084E+04	-2.800	0.000	
1.000	1.000	49.22	0.000	0.000	BNA3(2)_335_337_L_0						
26 D	10.25	1.2997E-20	100.0	51.26	100.0	51.26	V-C	3.6084E+04	-3.000	0.000	
1.000	1.000	51.26	0.000	0.000	BNA3(2)_335_337_L_0						
27 D	10.66	1.2295E-20	104.0	53.31	104.0	53.31	V-C	3.6084E+04	-3.200	0.000	
1.000	1.000	53.31	0.000	0.000	BNA3(2)_335_337_L_0						
28 D	11.07	1.1635E-20	108.0	55.36	108.0	55.36	V-C	3.6084E+04	-3.400	0.000	
1.000	1.000	55.36	0.000	0.000	BNA3(2)_335_337_L_0						
29 D	11.48	1.1019E-20	112.0	57.41	112.0	57.41	V-C	3.6084E+04	-3.600	0.000	
1.000	1.000	57.41	0.000	0.000	BNA3(2)_335_337_L_0						
30 D	11.89	1.0450E-20	116.0	59.45	116.0	59.45	V-C	3.6084E+04	-3.800	0.000	
1.000	1.000	59.45	0.000	0.000	BNA3(2)_335_337_L_0						
31 D	12.30	9.9326E-21	120.0	61.50	120.0	61.50	V-C	3.6084E+04	-4.000	0.000	
1.000	1.000	61.50	0.000	0.000	BNA3(2)_335_337_L_0						
32 D	12.71	9.4679E-21	124.0	63.54	124.0	63.54	V-C	3.6084E+04	-4.200	0.000	
1.000	1.000	63.54	0.000	0.000	BNA3(2)_335_337_L_0						
33 D	13.12	9.0580E-21	128.0	65.59	128.0	65.59	V-C	3.6084E+04	-4.400	0.000	
1.000	1.000	65.59	0.000	0.000	BNA3(2)_335_337_L_0						

34 D	13.53	8.7045E-21	132.0	67.63	132.0	67.63	V-C	3.6084E+04	-4.600	0.000
1.000	1.000	67.63	0.000	0.000	BNA3(2)_335_337_L_0					
35 D	13.94	8.4084E-21	136.0	69.68	136.0	69.68	V-C	3.6084E+04	-4.800	0.000
1.000	1.000	69.68	0.000	0.000	BNA3(2)_335_337_L_0					
36 D	14.34	8.1704E-21	140.1	71.72	140.1	71.72	V-C	3.6084E+04	-5.000	0.000
1.000	1.000	71.72	0.000	0.000	BNA3(2)_335_337_L_0					
37 D	14.75	7.9910E-21	144.1	73.76	144.1	73.76	V-C	3.6084E+04	-5.200	0.000
1.000	1.000	73.76	0.000	0.000	BNA3(2)_335_337_L_0					
38 D	15.16	7.8700E-21	148.1	75.81	148.1	75.81	V-C	3.6084E+04	-5.400	0.000
1.000	1.000	75.81	0.000	0.000	BNA3(2)_335_337_L_0					
39 D	15.57	7.8069E-21	152.1	77.85	152.1	77.85	V-C	3.6084E+04	-5.600	0.000
1.000	1.000	77.85	0.000	0.000	BNA3(2)_335_337_L_0					
40 D	15.98	7.8010E-21	156.1	79.89	156.1	79.89	V-C	3.6084E+04	-5.800	0.000
1.000	1.000	79.89	0.000	0.000	BNA3(2)_335_337_L_0					
41 D	16.39	7.8512E-21	160.1	81.93	160.1	81.93	V-C	3.6084E+04	-6.000	0.000
1.000	1.000	81.93	0.000	0.000	BNA3(2)_335_337_L_0					
42 D	16.79	7.9558E-21	164.1	83.97	164.1	83.97	V-C	3.6084E+04	-6.200	0.000
1.000	1.000	83.97	0.000	0.000	BNA3(2)_335_337_L_0					
43 D	17.20	8.1130E-21	168.1	86.01	168.1	86.01	V-C	3.6084E+04	-6.400	0.000
1.000	1.000	86.01	0.000	0.000	BNA3(2)_335_337_L_0					
44 D	17.61	8.3204E-21	172.1	88.05	172.1	88.05	V-C	3.6084E+04	-6.600	0.000
1.000	1.000	88.05	0.000	0.000	BNA3(2)_335_337_L_0					
45 D	18.02	8.5754E-21	176.1	90.09	176.1	90.09	V-C	3.6084E+04	-6.800	0.000
1.000	1.000	90.09	0.000	0.000	BNA3(2)_335_337_L_0					
46 D	18.43	8.8751E-21	180.1	92.13	180.1	92.13	V-C	3.6084E+04	-7.000	0.000
1.000	1.000	92.13	0.000	0.000	BNA3(2)_335_337_L_0					
47 D	18.83	9.2159E-21	184.1	94.17	184.1	94.17	V-C	3.6084E+04	-7.200	0.000
1.000	1.000	94.17	0.000	0.000	BNA3(2)_335_337_L_0					
48 D	19.24	9.5941E-21	188.1	96.21	188.1	96.21	V-C	3.6084E+04	-7.400	0.000
1.000	1.000	96.21	0.000	0.000	BNA3(2)_335_337_L_0					
49 D	19.65	1.0005E-20	192.1	98.25	192.1	98.25	V-C	3.6084E+04	-7.600	0.000
1.000	1.000	98.25	0.000	0.000	BNA3(2)_335_337_L_0					
50 D	20.06	1.0445E-20	196.1	100.3	196.1	100.3	V-C	3.6084E+04	-7.800	0.000
1.000	1.000	100.3	0.000	0.000	BNA3(2)_335_337_L_0					
51 D	20.46	1.0909E-20	200.1	102.3	200.1	102.3	V-C	3.6084E+04	-8.000	0.000
1.000	1.000	102.3	0.000	0.000	BNA3(2)_335_337_L_0					
52 D	20.87	1.1390E-20	204.1	104.4	204.1	104.4	V-C	3.6084E+04	-8.200	0.000
1.000	1.000	104.4	0.000	0.000	BNA3(2)_335_337_L_0					
53 D	21.28	1.1884E-20	208.2	106.4	208.2	106.4	V-C	3.6084E+04	-8.400	0.000
1.000	1.000	106.4	0.000	0.000	BNA3(2)_335_337_L_0					
54 D	21.68	1.2384E-20	212.2	108.4	212.2	108.4	V-C	3.6084E+04	-8.600	0.000
1.000	1.000	108.4	0.000	0.000	BNA3(2)_335_337_L_0					
55 D	22.09	1.2883E-20	216.2	110.5	216.2	110.5	V-C	3.6084E+04	-8.800	0.000
1.000	1.000	110.5	0.000	0.000	BNA3(2)_335_337_L_0					
56 D	22.50	1.3375E-20	220.2	112.5	220.2	112.5	V-C	3.6084E+04	-9.000	0.000
1.000	1.000	112.5	0.000	0.000	BNA3(2)_335_337_L_0					
57 D	22.90	1.3850E-20	224.2	114.5	224.2	114.5	V-C	3.6084E+04	-9.200	0.000
1.000	1.000	114.5	0.000	0.000	BNA3(2)_335_337_L_0					
58 D	23.31	1.4302E-20	228.2	116.6	228.2	116.6	V-C	3.6084E+04	-9.400	0.000
1.000	1.000	116.6	0.000	0.000	BNA3(2)_335_337_L_0					
59 D	23.72	1.4722E-20	232.2	118.6	232.2	118.6	V-C	3.6084E+04	-9.600	0.000
1.000	1.000	118.6	0.000	0.000	BNA3(2)_335_337_L_0					
60 D	24.12	1.5100E-20	236.2	120.6	236.2	120.6	V-C	3.6084E+04	-9.800	0.000
1.000	1.000	120.6	0.000	0.000	BNA3(2)_335_337_L_0					
61 D	24.53	1.5427E-20	240.2	122.7	240.2	122.7	V-C	3.6084E+04	-10.000	0.000
1.000	1.000	122.7	0.000	0.000	BNA3(2)_335_337_L_0					
62 D	24.94	1.5694E-20	244.2	124.7	244.2	124.7	V-C	3.6084E+04	-10.200	0.000
1.000	1.000	124.7	0.000	0.000	BNA3(2)_335_337_L_0					
63 D	25.34	1.5889E-20	248.2	126.7	248.2	126.7	V-C	3.6084E+04	-10.400	0.000
1.000	1.000	126.7	0.000	0.000	BNA3(2)_335_337_L_0					
64 D	25.75	1.6001E-20	252.3	128.7	252.3	128.7	V-C	3.6084E+04	-10.600	0.000
1.000	1.000	128.7	0.000	0.000	BNA3(2)_335_337_L_0					
65 D	26.15	1.6019E-20	256.3	130.8	256.3	130.8	V-C	3.6084E+04	-10.800	0.000
1.000	1.000	130.8	0.000	0.000	BNA3(2)_335_337_L_0					
66 D	26.56	1.5935E-20	260.3	132.8	260.3	132.8	V-C	3.6084E+04	-11.000	0.000
1.000	1.000	132.8	0.000	0.000	BNA3(2)_335_337_L_0					
67 D	26.96	1.5754E-20	264.3	134.8	264.3	134.8	V-C	3.6084E+04	-11.200	0.000
1.000	1.000	134.8	0.000	0.000	BNA3(2)_335_337_L_0					
68 D	27.37	1.5486E-20	268.3	136.8	268.3	136.8	V-C	3.6084E+04	-11.400	0.000
1.000	1.000	136.8	0.000	0.000	BNA3(2)_335_337_L_0					
69 D	27.78	1.5138E-20	272.3	138.9	272.3	138.9	V-C	3.6084E+04	-11.600	0.000
1.000	1.000	138.9	0.000	0.000	BNA3(2)_335_337_L_0					
70 D	28.18	1.4720E-20	276.3	140.9	276.3	140.9	V-C	3.6084E+04	-11.800	0.000
1.000	1.000	140.9	0.000	0.000	BNA3(2)_335_337_L_0					
71 D	28.59	1.4238E-20	280.3	142.9	280.3	142.9	V-C	3.6084E+04	-12.000	0.000
1.000	1.000	142.9	0.000	0.000	BNA3(2)_335_337_L_0					
72 D	28.99	1.3700E-20	284.4	145.0	284.4	145.0	V-C	3.6084E+04	-12.200	0.000
1.000	1.000	145.0	0.000	0.000	BNA3(2)_335_337_L_0					
73 D	29.39	1.3113E-20	288.4	147.0	288.4	147.0	V-C	3.6084E+04	-12.400	0.000
1.000	1.000	147.0	0.000	0.000	BNA3(2)_335_337_L_0					
74 D	29.80	1.2482E-20	292.4	149.0	292.4	149.0	V-C	3.6084E+04	-12.600	0.000
1.000	1.000	149.0	0.000	0.000	BNA3(2)_335_337_L_0					
75 D	30.20	1.1814E-20	296.4	151.0	296.4	151.0	V-C	3.6084E+04	-12.800	0.000
1.000	1.000	151.0	0.000	0.000	BNA3(2)_335_337_L_0					
76 D	30.61	1.1114E-20	300.4	153.0	300.4	153.0	V-C	3.6084E+04	-13.000	0.000
1.000	1.000	153.0	0.000	0.000	BNA3(2)_335_337_L_0					
77 D	35.69	1.0386E-20	304.4	178.5	304.4	178.5	V-C	4.9053E+04	-13.200	0.000
1.000	1.000	178.5	0.000	0.000	BNA3(3)_336_338_L_0					
78 D	36.16	9.6360E-21	308.4	180.8	308.4	180.8	V-C	4.9053E+04	-13.400	0.000
1.000	1.000	180.8	0.000	0.000	BNA3(3)_336_338_L_0					
79 D	36.63	8.8674E-21	312.4	183.1	312.4	183.1	V-C	4.9053E+04	-13.600	0.000
1.000	1.000	183.1	0.000	0.000	BNA3(3)_336_338_L_0					

80 D	37.09	8.0840E-21	316.5	185.5	316.5	185.5	V-C	4.9053E+04	-13.80	0.000
1.000	1.000	185.5	0.000	0.000	BNA3(3)_336_338_L_0					
81 D	37.56	7.2887E-21	320.5	187.8	320.5	187.8	V-C	4.9053E+04	-14.00	0.000
1.000	1.000	187.8	0.000	0.000	BNA3(3)_336_338_L_0					
82 D	38.02	6.4842E-21	324.5	190.1	324.5	190.1	V-C	4.9053E+04	-14.20	0.000
1.000	1.000	190.1	0.000	0.000	BNA3(3)_336_338_L_0					
83 D	38.49	5.6727E-21	328.5	192.4	328.5	192.4	V-C	4.9053E+04	-14.40	0.000
1.000	1.000	192.4	0.000	0.000	BNA3(3)_336_338_L_0					
84 D	38.95	4.8561E-21	332.5	194.8	332.5	194.8	V-C	4.9053E+04	-14.60	0.000
1.000	1.000	194.8	0.000	0.000	BNA3(3)_336_338_L_0					
85 D	39.42	4.0359E-21	336.5	197.1	336.5	197.1	V-C	4.9053E+04	-14.80	0.000
1.000	1.000	197.1	0.000	0.000	BNA3(3)_336_338_L_0					
86 D	39.88	3.2132E-21	340.5	199.4	340.5	199.4	V-C	4.9053E+04	-15.00	0.000
1.000	1.000	199.4	0.000	0.000	BNA3(3)_336_338_L_0					
87 D	40.35	2.3889E-21	344.6	201.7	344.6	201.7	V-C	4.9053E+04	-15.20	0.000
1.000	1.000	201.7	0.000	0.000	BNA3(3)_336_338_L_0					
88 D	40.81	1.5638E-21	348.6	204.1	348.6	204.1	V-C	4.9053E+04	-15.40	0.000
1.000	1.000	204.1	0.000	0.000	BNA3(3)_336_338_L_0					
89 D	41.28	7.3812E-22	352.6	206.4	352.6	206.4	V-C	4.9053E+04	-15.60	0.000
1.000	1.000	206.4	0.000	0.000	BNA3(3)_336_338_L_0					
90 D	41.74	-8.7697E-23	356.6	208.7	356.6	208.7	V-C	4.9053E+04	-15.80	0.000
1.000	1.000	208.7	0.000	0.000	BNA3(3)_336_338_L_0					
91 D	21.10	-9.1361E-22	360.6	211.0	360.6	211.0	V-C	4.9053E+04	-16.00	0.000
1.000	1.000	211.0	0.000	0.000	BNA3(3)_336_338_L_0					

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|          PARATIE PLUS 2014 NLS ENGINE RELEASE  2016  FULL VERSION  *Build date: Sept23, 2015*          |
|                                                                                                       |
|                               NewProject.BaseDesignSection_25.Nominal_60                               |
|                               Exe Time :29 June 2020           20:30:03                               |
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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 91
CURRENT TIME IS 1.0000

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 LAYER	MAX-H-P	STATE	STIFFNESS	Z-LEVEL	PORE	E FAC-
1 D	0.000	-3.1668E-20	0.000	0.000	0.000	0.000	V-C	9766.	2.000	0.000	
1.000	1.000	0.000	0.000	0.000	FRANA_334_8_L_0						
2 D	0.6168	-3.0999E-20	4.000	3.084	4.000	3.084	V-C	9766.	1.800	0.000	
1.000	1.000	3.084	0.000	0.000	FRANA_334_8_L_0						
3 D	1.234	-3.0329E-20	8.000	6.168	8.000	6.168	V-C	9766.	1.600	0.000	
1.000	1.000	6.168	0.000	0.000	FRANA_334_8_L_0						
4 D	1.850	-2.9659E-20	12.00	9.252	12.00	9.252	V-C	9766.	1.400	0.000	
1.000	1.000	9.252	0.000	0.000	FRANA_334_8_L_0						
5 D	2.467	-2.8986E-20	16.00	12.34	16.00	12.34	V-C	9766.	1.200	0.000	
1.000	1.000	12.34	0.000	0.000	FRANA_334_8_L_0						
6 D	3.084	-2.8308E-20	20.00	15.42	20.00	15.42	V-C	9766.	1.000	0.000	
1.000	1.000	15.42	0.000	0.000	FRANA_334_8_L_0						
7 D	3.701	-2.7624E-20	24.00	18.50	24.00	18.50	V-C	9766.	0.8000	0.000	
1.000	1.000	18.50	0.000	0.000	FRANA_334_8_L_0						
8 D	4.318	-2.6935E-20	28.00	21.59	28.00	21.59	V-C	9766.	0.6000	0.000	
1.000	1.000	21.59	0.000	0.000	FRANA_334_8_L_0						
9 D	4.934	-2.6239E-20	32.00	24.67	32.00	24.67	V-C	9766.	0.4000	0.000	
1.000	1.000	24.67	0.000	0.000	FRANA_334_8_L_0						
10 D	5.551	-2.5537E-20	36.00	27.76	36.00	27.76	V-C	9766.	0.2000	0.000	
1.000	1.000	27.76	0.000	0.000	FRANA_334_8_L_0						
11 D	6.168	-2.4826E-20	40.00	30.84	40.00	30.84	V-C	9766.	-1.4901E-07	0.000	
1.000	1.000	30.84	0.000	0.000	FRANA_334_8_L_0						
12 D	6.784	-2.4105E-20	44.00	33.92	44.00	33.92	V-C	9766.	-0.2000	0.000	
1.000	1.000	33.92	0.000	0.000	FRANA_334_8_L_0						
13 D	7.401	-2.3373E-20	48.00	37.01	48.00	37.01	V-C	9766.	-0.4000	0.000	
1.000	1.000	37.01	0.000	0.000	FRANA_334_8_L_0						
14 D	8.018	-2.2628E-20	52.00	40.09	52.00	40.09	V-C	9766.	-0.6000	0.000	
1.000	1.000	40.09	0.000	0.000	FRANA_334_8_L_0						
15 D	8.634	-2.1868E-20	56.00	43.17	56.00	43.17	V-C	9766.	-0.8000	0.000	
1.000	1.000	43.17	0.000	0.000	FRANA_334_8_L_0						
16 D	9.251	-2.1090E-20	60.00	46.25	60.00	46.25	V-C	9766.	-1.000	0.000	
1.000	1.000	46.25	0.000	0.000	FRANA_334_8_L_0						
17 D	9.867	-2.0291E-20	64.00	49.34	64.00	49.34	V-C	9766.	-1.200	0.000	
1.000	1.000	49.34	0.000	0.000	FRANA_334_8_L_0						
18 D	10.48	-1.9472E-20	68.00	52.42	68.00	52.42	V-C	9766.	-1.400	0.000	
1.000	1.000	52.42	0.000	0.000	FRANA_334_8_L_0						
19 D	11.10	-1.8637E-20	72.00	55.50	72.00	55.50	V-C	9766.	-1.600	0.000	
1.000	1.000	55.50	0.000	0.000	FRANA_334_8_L_0						
20 D	11.72	-1.7795E-20	76.00	58.58	76.00	58.58	V-C	9766.	-1.800	0.000	
1.000	1.000	58.58	0.000	0.000	FRANA_334_8_L_0						
21 D	8.205	-1.6954E-20	80.00	41.02	80.00	41.02	V-C	2.4056E+04	-2.000	0.000	
1.000	1.000	41.02	0.000	0.000	BNA3(2)_335_337_L_0						
22 D	8.614	-1.6121E-20	84.00	43.07	84.00	43.07	V-C	2.4056E+04	-2.200	0.000	
1.000	1.000	43.07	0.000	0.000	BNA3(2)_335_337_L_0						
23 D	9.024	-1.5303E-20	88.00	45.12	88.00	45.12	V-C	2.4056E+04	-2.400	0.000	
1.000	1.000	45.12	0.000	0.000	BNA3(2)_335_337_L_0						
24 D	9.434	-1.4506E-20	92.00	47.17	92.00	47.17	V-C	2.4056E+04	-2.600	0.000	
1.000	1.000	47.17	0.000	0.000	BNA3(2)_335_337_L_0						
25 D	9.843	-1.3735E-20	96.00	49.22	96.00	49.22	V-C	2.4056E+04	-2.800	0.000	
1.000	1.000	49.22	0.000	0.000	BNA3(2)_335_337_L_0						
26 D	10.25	-1.2997E-20	100.0	51.26	100.0	51.26	V-C	2.4056E+04	-3.000	0.000	
1.000	1.000	51.26	0.000	0.000	BNA3(2)_335_337_L_0						
27 D	10.66	-1.2295E-20	104.0	53.31	104.0	53.31	V-C	2.4056E+04	-3.200	0.000	
1.000	1.000	53.31	0.000	0.000	BNA3(2)_335_337_L_0						
28 D	11.07	-1.1635E-20	108.0	55.36	108.0	55.36	V-C	2.4056E+04	-3.400	0.000	
1.000	1.000	55.36	0.000	0.000	BNA3(2)_335_337_L_0						
29 D	11.48	-1.1019E-20	112.0	57.41	112.0	57.41	V-C	2.4056E+04	-3.600	0.000	
1.000	1.000	57.41	0.000	0.000	BNA3(2)_335_337_L_0						
30 D	11.89	-1.0450E-20	116.0	59.45	116.0	59.45	V-C	2.4056E+04	-3.800	0.000	
1.000	1.000	59.45	0.000	0.000	BNA3(2)_335_337_L_0						
31 D	12.30	-9.9326E-21	120.0	61.50	120.0	61.50	V-C	2.4056E+04	-4.000	0.000	
1.000	1.000	61.50	0.000	0.000	BNA3(2)_335_337_L_0						
32 D	12.71	-9.4679E-21	124.0	63.54	124.0	63.54	V-C	2.4056E+04	-4.200	0.000	
1.000	1.000	63.54	0.000	0.000	BNA3(2)_335_337_L_0						
33 D	13.12	-9.0580E-21	128.0	65.59	128.0	65.59	V-C	2.4056E+04	-4.400	0.000	
1.000	1.000	65.59	0.000	0.000	BNA3(2)_335_337_L_0						

34 D	13.53	-8.7045E-21	132.0	67.63	132.0	67.63	V-C	2.4056E+04	-4.600	0.000
1.000	1.000	67.63	0.000	0.000	BNA3(2)_335_337_L_0					
35 D	13.94	-8.4084E-21	136.0	69.68	136.0	69.68	V-C	2.4056E+04	-4.800	0.000
1.000	1.000	69.68	0.000	0.000	BNA3(2)_335_337_L_0					
36 D	14.34	-8.1704E-21	140.0	71.72	140.0	71.72	V-C	2.4056E+04	-5.000	0.000
1.000	1.000	71.72	0.000	0.000	BNA3(2)_335_337_L_0					
37 D	14.75	-7.9910E-21	144.0	73.76	144.0	73.76	V-C	2.4056E+04	-5.200	0.000
1.000	1.000	73.76	0.000	0.000	BNA3(2)_335_337_L_0					
38 D	15.16	-7.8700E-21	148.0	75.81	148.0	75.81	V-C	2.4056E+04	-5.400	0.000
1.000	1.000	75.81	0.000	0.000	BNA3(2)_335_337_L_0					
39 D	15.57	-7.8069E-21	152.0	77.85	152.0	77.85	V-C	2.4056E+04	-5.600	0.000
1.000	1.000	77.85	0.000	0.000	BNA3(2)_335_337_L_0					
40 D	15.98	-7.8010E-21	156.0	79.89	156.0	79.89	V-C	2.4056E+04	-5.800	0.000
1.000	1.000	79.89	0.000	0.000	BNA3(2)_335_337_L_0					
41 D	16.39	-7.8512E-21	160.0	81.93	160.0	81.93	V-C	2.4056E+04	-6.000	0.000
1.000	1.000	81.93	0.000	0.000	BNA3(2)_335_337_L_0					
42 D	16.79	-7.9558E-21	164.0	83.97	164.0	83.97	V-C	2.4056E+04	-6.200	0.000
1.000	1.000	83.97	0.000	0.000	BNA3(2)_335_337_L_0					
43 D	17.20	-8.1130E-21	168.0	86.01	168.0	86.01	V-C	2.4056E+04	-6.400	0.000
1.000	1.000	86.01	0.000	0.000	BNA3(2)_335_337_L_0					
44 D	17.61	-8.3204E-21	172.0	88.05	172.0	88.05	V-C	2.4056E+04	-6.600	0.000
1.000	1.000	88.05	0.000	0.000	BNA3(2)_335_337_L_0					
45 D	18.02	-8.5754E-21	176.0	90.09	176.0	90.09	V-C	2.4056E+04	-6.800	0.000
1.000	1.000	90.09	0.000	0.000	BNA3(2)_335_337_L_0					
46 D	18.43	-8.8751E-21	180.0	92.13	180.0	92.13	V-C	2.4056E+04	-7.000	0.000
1.000	1.000	92.13	0.000	0.000	BNA3(2)_335_337_L_0					
47 D	18.83	-9.2159E-21	184.0	94.17	184.0	94.17	V-C	2.4056E+04	-7.200	0.000
1.000	1.000	94.17	0.000	0.000	BNA3(2)_335_337_L_0					
48 D	19.24	-9.5941E-21	188.0	96.21	188.0	96.21	V-C	2.4056E+04	-7.400	0.000
1.000	1.000	96.21	0.000	0.000	BNA3(2)_335_337_L_0					
49 D	19.65	-1.0005E-20	192.0	98.25	192.0	98.25	V-C	2.4056E+04	-7.600	0.000
1.000	1.000	98.25	0.000	0.000	BNA3(2)_335_337_L_0					
50 D	20.06	-1.0445E-20	196.0	100.3	196.0	100.3	V-C	2.4056E+04	-7.800	0.000
1.000	1.000	100.3	0.000	0.000	BNA3(2)_335_337_L_0					
51 D	20.46	-1.0909E-20	200.0	102.3	200.0	102.3	V-C	2.4056E+04	-8.000	0.000
1.000	1.000	102.3	0.000	0.000	BNA3(2)_335_337_L_0					
52 D	20.87	-1.1390E-20	204.0	104.4	204.0	104.4	V-C	2.4056E+04	-8.200	0.000
1.000	1.000	104.4	0.000	0.000	BNA3(2)_335_337_L_0					
53 D	21.28	-1.1884E-20	208.0	106.4	208.0	106.4	V-C	2.4056E+04	-8.400	0.000
1.000	1.000	106.4	0.000	0.000	BNA3(2)_335_337_L_0					
54 D	21.68	-1.2384E-20	212.0	108.4	212.0	108.4	V-C	2.4056E+04	-8.600	0.000
1.000	1.000	108.4	0.000	0.000	BNA3(2)_335_337_L_0					
55 D	22.09	-1.2883E-20	216.0	110.5	216.0	110.5	V-C	2.4056E+04	-8.800	0.000
1.000	1.000	110.5	0.000	0.000	BNA3(2)_335_337_L_0					
56 D	22.50	-1.3375E-20	220.0	112.5	220.0	112.5	V-C	2.4056E+04	-9.000	0.000
1.000	1.000	112.5	0.000	0.000	BNA3(2)_335_337_L_0					
57 D	22.90	-1.3850E-20	224.0	114.5	224.0	114.5	V-C	2.4056E+04	-9.200	0.000
1.000	1.000	114.5	0.000	0.000	BNA3(2)_335_337_L_0					
58 D	23.31	-1.4302E-20	228.0	116.6	228.0	116.6	V-C	2.4056E+04	-9.400	0.000
1.000	1.000	116.6	0.000	0.000	BNA3(2)_335_337_L_0					
59 D	23.72	-1.4722E-20	232.0	118.6	232.0	118.6	V-C	2.4056E+04	-9.600	0.000
1.000	1.000	118.6	0.000	0.000	BNA3(2)_335_337_L_0					
60 D	24.12	-1.5100E-20	236.0	120.6	236.0	120.6	V-C	2.4056E+04	-9.800	0.000
1.000	1.000	120.6	0.000	0.000	BNA3(2)_335_337_L_0					
61 D	24.53	-1.5427E-20	240.0	122.7	240.0	122.7	V-C	2.4056E+04	-10.000	0.000
1.000	1.000	122.7	0.000	0.000	BNA3(2)_335_337_L_0					
62 D	24.94	-1.5694E-20	244.0	124.7	244.0	124.7	V-C	2.4056E+04	-10.200	0.000
1.000	1.000	124.7	0.000	0.000	BNA3(2)_335_337_L_0					
63 D	25.34	-1.5889E-20	248.0	126.7	248.0	126.7	V-C	2.4056E+04	-10.400	0.000
1.000	1.000	126.7	0.000	0.000	BNA3(2)_335_337_L_0					
64 D	25.75	-1.6001E-20	252.0	128.7	252.0	128.7	V-C	2.4056E+04	-10.600	0.000
1.000	1.000	128.7	0.000	0.000	BNA3(2)_335_337_L_0					
65 D	26.15	-1.6019E-20	256.0	130.8	256.0	130.8	V-C	2.4056E+04	-10.800	0.000
1.000	1.000	130.8	0.000	0.000	BNA3(2)_335_337_L_0					
66 D	26.56	-1.5935E-20	260.0	132.8	260.0	132.8	V-C	2.4056E+04	-11.000	0.000
1.000	1.000	132.8	0.000	0.000	BNA3(2)_335_337_L_0					
67 D	26.96	-1.5754E-20	264.0	134.8	264.0	134.8	V-C	2.4056E+04	-11.200	0.000
1.000	1.000	134.8	0.000	0.000	BNA3(2)_335_337_L_0					
68 D	27.37	-1.5486E-20	268.0	136.8	268.0	136.8	V-C	2.4056E+04	-11.400	0.000
1.000	1.000	136.8	0.000	0.000	BNA3(2)_335_337_L_0					
69 D	27.78	-1.5138E-20	272.0	138.9	272.0	138.9	V-C	2.4056E+04	-11.600	0.000
1.000	1.000	138.9	0.000	0.000	BNA3(2)_335_337_L_0					
70 D	28.18	-1.4720E-20	276.0	140.9	276.0	140.9	V-C	2.4056E+04	-11.800	0.000
1.000	1.000	140.9	0.000	0.000	BNA3(2)_335_337_L_0					
71 D	28.59	-1.4238E-20	280.0	142.9	280.0	142.9	V-C	2.4056E+04	-12.000	0.000
1.000	1.000	142.9	0.000	0.000	BNA3(2)_335_337_L_0					
72 D	28.99	-1.3700E-20	284.0	145.0	284.0	145.0	V-C	2.4056E+04	-12.200	0.000
1.000	1.000	145.0	0.000	0.000	BNA3(2)_335_337_L_0					
73 D	29.39	-1.3113E-20	288.0	147.0	288.0	147.0	V-C	2.4056E+04	-12.400	0.000
1.000	1.000	147.0	0.000	0.000	BNA3(2)_335_337_L_0					
74 D	29.80	-1.2482E-20	292.0	149.0	292.0	149.0	V-C	2.4056E+04	-12.600	0.000
1.000	1.000	149.0	0.000	0.000	BNA3(2)_335_337_L_0					
75 D	30.20	-1.1814E-20	296.0	151.0	296.0	151.0	V-C	2.4056E+04	-12.800	0.000
1.000	1.000	151.0	0.000	0.000	BNA3(2)_335_337_L_0					
76 D	30.61	-1.1114E-20	300.0	153.0	300.0	153.0	V-C	2.4056E+04	-13.000	0.000
1.000	1.000	153.0	0.000	0.000	BNA3(2)_335_337_L_0					
77 D	35.69	-1.0386E-20	304.0	178.5	304.0	178.5	V-C	3.9817E+04	-13.200	0.000
1.000	1.000	178.5	0.000	0.000	BNA3(3)_336_338_L_0					
78 D	36.16	-9.6360E-21	308.0	180.8	308.0	180.8	V-C	3.9817E+04	-13.400	0.000
1.000	1.000	180.8	0.000	0.000	BNA3(3)_336_338_L_0					
79 D	36.63	-8.8674E-21	312.0	183.1	312.0	183.1	V-C	3.9817E+04	-13.600	0.000
1.000	1.000	183.1	0.000	0.000	BNA3(3)_336_338_L_0					

80 D	37.09	-8.0840E-21	316.0	185.5	316.0	185.5	V-C	3.9817E+04	-13.80	0.000
1.000	1.000	185.5	0.000	0.000	BNA3(3)_336_338_L_0					
81 D	37.56	-7.2887E-21	320.0	187.8	320.0	187.8	V-C	3.9817E+04	-14.00	0.000
1.000	1.000	187.8	0.000	0.000	BNA3(3)_336_338_L_0					
82 D	38.02	-6.4842E-21	324.0	190.1	324.0	190.1	V-C	3.9817E+04	-14.20	0.000
1.000	1.000	190.1	0.000	0.000	BNA3(3)_336_338_L_0					
83 D	38.49	-5.6727E-21	328.0	192.4	328.0	192.4	V-C	3.9817E+04	-14.40	0.000
1.000	1.000	192.4	0.000	0.000	BNA3(3)_336_338_L_0					
84 D	38.95	-4.8561E-21	332.0	194.8	332.0	194.8	V-C	3.9817E+04	-14.60	0.000
1.000	1.000	194.8	0.000	0.000	BNA3(3)_336_338_L_0					
85 D	39.42	-4.0359E-21	336.0	197.1	336.0	197.1	V-C	3.9817E+04	-14.80	0.000
1.000	1.000	197.1	0.000	0.000	BNA3(3)_336_338_L_0					
86 D	39.88	-3.2132E-21	340.0	199.4	340.0	199.4	V-C	3.9817E+04	-15.00	0.000
1.000	1.000	199.4	0.000	0.000	BNA3(3)_336_338_L_0					
87 D	40.35	-2.3889E-21	344.0	201.7	344.0	201.7	V-C	3.9817E+04	-15.20	0.000
1.000	1.000	201.7	0.000	0.000	BNA3(3)_336_338_L_0					
88 D	40.81	-1.5638E-21	348.0	204.1	348.0	204.1	V-C	3.9817E+04	-15.40	0.000
1.000	1.000	204.1	0.000	0.000	BNA3(3)_336_338_L_0					
89 D	41.28	-7.3812E-22	352.0	206.4	352.0	206.4	V-C	3.9817E+04	-15.60	0.000
1.000	1.000	206.4	0.000	0.000	BNA3(3)_336_338_L_0					
90 D	41.74	8.7697E-23	356.0	208.7	356.0	208.7	V-C	3.9817E+04	-15.80	0.000
1.000	1.000	208.7	0.000	0.000	BNA3(3)_336_338_L_0					
91 D	21.10	9.1361E-22	360.0	211.0	360.0	211.0	V-C	3.9817E+04	-16.00	0.000
1.000	1.000	211.0	0.000	0.000	BNA3(3)_336_338_L_0					

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|                PARATIE PLUS 2014 NLS ENGINE RELEASE  2016  FULL VERSION  *Build date: Sept23, 2015*                |
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|                NewProject.BaseDesignSection_25.Nominal_60                                                                              |
|                Exe Time :29 June 2020    20:30:03                                                                              |
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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

WallElement_30 :
ELEMENT TYPE 2 NO.OF ELEMENTS. IN THIS GROUP 90
C U R R E N T T I M E I S 1.0000

WALL2D ELEMENT

EL	TA	TB	MA	MB
1	2.64809E-17	-2.64809E-17	-3.15544E-29	5.29619E-18
2	7.81745E-17	-7.81745E-17	-5.29619E-18	2.09311E-17
3	3.50644E-16	-3.50644E-16	-2.09311E-17	9.10600E-17
4	3.99802E-16	-3.99802E-16	-9.10600E-17	1.71020E-16
5	3.60287E-18	-3.60287E-18	-1.71020E-16	1.71741E-16
6	5.02271E-17	-5.02271E-17	-1.71741E-16	1.81786E-16
7	9.55872E-17	-9.55872E-17	-1.81786E-16	2.00904E-16
8	1.39686E-16	-1.39686E-16	-2.00904E-16	2.28841E-16
9	1.82527E-16	-1.82527E-16	-2.28841E-16	2.65346E-16
10	2.24116E-16	-2.24116E-16	-2.65346E-16	3.10170E-16
11	2.64459E-16	-2.64459E-16	-3.10170E-16	3.63061E-16
12	3.03563E-16	-3.03563E-16	-3.63061E-16	4.23774E-16
13	3.41438E-16	-3.41438E-16	-4.23774E-16	4.92062E-16
14	3.78096E-16	-3.78096E-16	-4.92062E-16	5.67681E-16
15	4.13549E-16	-4.13549E-16	-5.67681E-16	6.50391E-16
16	4.47814E-16	-4.47814E-16	-6.50391E-16	7.39953E-16
17	-1.29545E-15	1.29545E-15	-7.39953E-16	4.80864E-16
18	-1.26351E-15	1.26351E-15	-4.80864E-16	2.28163E-16
19	-1.23269E-15	1.23269E-15	-2.28163E-16	1.83752E-17
20	-1.20298E-15	1.20298E-15	-1.83752E-17	2.58970E-16
21	-1.10602E-15	1.10602E-15	-2.58970E-16	4.80175E-16
22	-1.01260E-15	1.01260E-15	-4.80175E-16	6.82695E-16
23	-9.22588E-16	9.22588E-16	-6.82695E-16	8.67213E-16
24	-8.35863E-16	8.35863E-16	-8.67213E-16	1.03439E-15
25	-7.52283E-16	7.52283E-16	-1.03439E-15	1.18484E-15
26	-6.71700E-16	6.71700E-16	-1.18484E-15	1.31918E-15
27	-5.93952E-16	5.93952E-16	-1.31918E-15	1.43797E-15
28	-5.18867E-16	5.18867E-16	-1.43797E-15	1.54175E-15
29	-4.46262E-16	4.46262E-16	-1.54175E-15	1.63100E-15
30	-3.75945E-16	3.75945E-16	-1.63100E-15	1.70619E-15
31	-3.07715E-16	3.07715E-16	-1.70619E-15	1.76773E-15
32	-2.41365E-16	2.41365E-16	-1.76773E-15	1.81600E-15
33	-1.76680E-16	1.76680E-16	-1.81600E-15	1.85134E-15
34	-1.13440E-16	1.13440E-16	-1.85134E-15	1.87403E-15
35	-5.14227E-17	5.14227E-17	-1.87403E-15	1.88431E-15
36	9.59573E-18	-9.59573E-18	1.88431E-15	1.88239E-15
37	6.98398E-17	-6.98398E-17	1.88239E-15	1.86842E-15
38	1.29532E-16	-1.29532E-16	1.86842E-15	1.84252E-15
39	1.88891E-16	-1.88891E-16	1.84252E-15	1.80474E-15
40	2.48130E-16	-2.48130E-16	1.80474E-15	1.75511E-15
41	3.07456E-16	-3.07456E-16	1.75511E-15	1.69362E-15
42	3.67064E-16	-3.67064E-16	1.69362E-15	1.62021E-15
43	4.27142E-16	-4.27142E-16	1.62021E-15	1.53478E-15
44	4.87862E-16	-4.87862E-16	1.53478E-15	1.43721E-15
45	5.49384E-16	-5.49384E-16	1.43721E-15	1.32733E-15
46	6.11849E-16	-6.11849E-16	1.32733E-15	1.20496E-15
47	6.75384E-16	-6.75384E-16	1.20496E-15	1.06989E-15
48	7.40094E-16	-7.40094E-16	1.06989E-15	9.21868E-16
49	8.06067E-16	-8.06067E-16	9.21868E-16	7.60655E-16
50	8.73368E-16	-8.73368E-16	7.60655E-16	5.85982E-16
51	9.42039E-16	-9.42039E-16	5.85982E-16	3.97574E-16
52	1.01210E-15	-1.01210E-15	3.97574E-16	1.95153E-16
53	1.08356E-15	-1.08356E-15	1.95153E-16	2.15584E-17
54	1.15637E-15	-1.15637E-15	2.15584E-17	2.52832E-16
55	1.23051E-15	-1.23051E-15	2.52832E-16	4.98934E-16
56	1.30589E-15	-1.30589E-15	4.98934E-16	7.60111E-16
57	1.38241E-15	-1.38241E-15	7.60111E-16	1.03659E-15
58	1.45997E-15	-1.45997E-15	1.03659E-15	1.32859E-15
59	1.53843E-15	-1.53843E-15	1.32859E-15	1.63627E-15
60	1.61762E-15	-1.61762E-15	1.63627E-15	1.95979E-15
61	1.69738E-15	-1.69738E-15	1.95979E-15	2.29928E-15
62	1.77751E-15	-1.77751E-15	2.29928E-15	2.65476E-15
63	1.85781E-15	-1.85781E-15	2.65476E-15	3.02633E-15
64	1.93807E-15	-1.93807E-15	3.02633E-15	3.41394E-15
65	-1.53467E-15	1.53467E-15	-3.41394E-15	3.10701E-15
66	-1.45520E-15	1.45520E-15	-3.10701E-15	2.81597E-15
67	-1.37649E-15	1.37649E-15	-2.81597E-15	2.54067E-15
68	-1.29876E-15	1.29876E-15	-2.54067E-15	2.28092E-15
69	-1.22228E-15	1.22228E-15	-2.28092E-15	2.03646E-15
70	-1.14727E-15	1.14727E-15	-2.03646E-15	1.80701E-15

71-1.07397E-15 1.07397E-15-1.80701E-15 1.59221E-15
72-1.00263E-15 1.00263E-15-1.59221E-15 1.39169E-15
73-9.33443E-16 9.33443E-16-1.39169E-15 1.20500E-15
74-8.66641E-16 8.66641E-16-1.20500E-15 1.03167E-15
75-8.02422E-16 8.02422E-16-1.03167E-15 8.71185E-16
76-7.40974E-16 7.40974E-16-8.71185E-16 7.22990E-16
77-6.54528E-16 6.54528E-16-7.22990E-16 5.92084E-16
78-5.72677E-16 5.72677E-16-5.92084E-16 4.77549E-16
79-4.95638E-16 4.95638E-16-4.77549E-16 3.78421E-16
80-4.23604E-16 4.23604E-16-3.78421E-16 2.93700E-16
81-3.56746E-16 3.56746E-16-2.93700E-16 2.22351E-16
82-2.95211E-16 2.95211E-16-2.22351E-16 1.63309E-16
83-2.39123E-16 2.39123E-16-1.63309E-16 1.15485E-16
84-1.88583E-16 1.88583E-16-1.15485E-16 7.77680E-17
85-1.43672E-16 1.43672E-16-7.77680E-17 4.90336E-17
86-1.04453E-16 1.04453E-16-4.90336E-17 2.81429E-17
87-7.09700E-17 7.09700E-17-2.81429E-17 1.39489E-17
88-4.32523E-17 4.32523E-17-1.39489E-17 5.29848E-18
89-2.13177E-17 2.13177E-17-5.29848E-18 1.03494E-18
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|          PARATIE PLUS 2014 NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Sept23, 2015*          |
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|                                                                                                                                            |
|          NewProject.BaseDesignSection_25.Nominal_60          |
|          Exe Time :29 June 2020          20:30:03          |
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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 . 4

Tieback_341 :
ELEMENT TYPE 6 NO.OF ELEMENTS. IN THIS GROUP 1
C U R R E N T T I M E I S 1.0000

POST-TENSION 2D-BOUNDARY ELEMENT

EL	FORCE	d0	EDISPL	pl. eps	K	-ve limit	+ve limit
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***** NO ONE ELEMENT ACTIVE AT CURRENT STEP *****

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|                PARATIE PLUS 2014 NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Sept23, 2015*                |
|                                                                                                                    |
|                NewProject.BaseDesignSection_25.Nominal_60                                                         |
|                Exe Time :29 June 2020      20:30:03                                                                |
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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 . 5

Tieback_342 :
ELEMENT TYPE 6 NO.OF ELEMENTS. IN THIS GROUP 1
C U R R E N T T I M E I S 1.0000

POST-TENSION 2D-BOUNDARY ELEMENT

EL	FORCE	d0	EDISPL	pl. eps	K	-ve limit	+ve limit
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***** NO ONE ELEMENT ACTIVE AT CURRENT STEP *****

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ITER      0    RNORM = 0.000      RMNORM= 0.000
             RINORM=0.9094E+05    RIMNOR=0.3148E-27
             RENORM= 986.8        REMNOR=0.1617E-52    RATIO =0.1042        TOLER =0.1000E-03    NOT CONVERGED
             RFMAX = 41.74        RMMAX =0.3414E-14
             RTSMAL=0.1000E-03    RMSMAL=0.1000E-19
             RDT =0.9094E+05      RDR =0.1000E-19
             RATIO=0.1042        RATIO= 0.000
             MAX UN= 11.72        IEQ= 39 NODE        20 DOF    1    Y-DISPL.F
             MIN UN=-.8673E-16    IEQ= 47 NODE        24 DOF    1    Y-DISPL.F
             NO. OF CONTACT CONSTRAINT VIOLATIONS      0

ITER      2    RNORM = 0.000      RMNORM= 0.000
             RINORM=0.9094E+05    RIMNOR=0.3148E-27
             RENORM= 115.1        REMNOR=0.1780E-18    RATIO =0.3558E-01    TOLER =0.1000E-03    NOT CONVERGED
             RFMAX = 41.74        RMMAX =0.3414E-14
             RTSMAL=0.1000E-03    RMSMAL=0.1000E-19
             RDT =0.9094E+05      RDR =0.1000E-19
             RATIO=0.3558E-01    RATIO= 0.000
             MAX UN= 3.963        IEQ= 41 NODE        21 DOF    1    Y-DISPL.F
             MIN UN=-.3542E-02    IEQ= 89 NODE        45 DOF    1    Y-DISPL.F
             NO. OF CONTACT CONSTRAINT VIOLATIONS      0

ITER      3    RNORM = 0.000      RMNORM= 0.000
             RINORM=0.9094E+05    RIMNOR=0.3148E-27
             RENORM= 63.31        REMNOR=0.2544E-18    RATIO =0.2638E-01    TOLER =0.1000E-03    NOT CONVERGED
             RFMAX = 41.74        RMMAX =0.3414E-14
             RTSMAL=0.1000E-03    RMSMAL=0.1000E-19
             RDT =0.9094E+05      RDR =0.1000E-19
             RATIO=0.2638E-01    RATIO= 0.000
             MAX UN= 4.706        IEQ= 55 NODE        28 DOF    1    Y-DISPL.F
             MIN UN=-.2653E-08    IEQ= 33 NODE        17 DOF    1    Y-DISPL.F
             NO. OF CONTACT CONSTRAINT VIOLATIONS      0

ITER      4    RNORM = 0.000      RMNORM= 0.000
             RINORM=0.9094E+05    RIMNOR=0.3148E-27
             RENORM= 1.093        REMNOR=0.2612E-18    RATIO =0.3466E-02    TOLER =0.1000E-03    NOT CONVERGED
             RFMAX = 41.74        RMMAX =0.3414E-14
             RTSMAL=0.1000E-03    RMSMAL=0.1000E-19
             RDT =0.9094E+05      RDR =0.1000E-19
             RATIO=0.3466E-02    RATIO= 0.000
             MAX UN=0.9925        IEQ= 67 NODE        34 DOF    1    Y-DISPL.F
             MIN UN=-.1328        IEQ= 93 NODE        47 DOF    1    Y-DISPL.F
             NO. OF CONTACT CONSTRAINT VIOLATIONS      0

ITER      5    RNORM = 0.000      RMNORM= 0.000
             RINORM=0.9094E+05    RIMNOR=0.3148E-27
             RENORM=0.6966E-05    REMNOR=0.1092E-18    RATIO =0.8752E-05    TOLER =0.1000E-03    CONVERGED !
             RFMAX = 41.74        RMMAX =0.3414E-14
             RTSMAL=0.1000E-03    RMSMAL=0.1000E-19
             RDT =0.9094E+05      RDR =0.1000E-19
             RATIO=0.8752E-05    RATIO= 0.000
             MAX UN=0.2639E-02    IEQ= 93 NODE        47 DOF    1    Y-DISPL.F
             MIN UN=-.3151E-08    IEQ= 5 NODE         3 DOF    1    Y-DISPL.F
             NO. OF CONTACT CONSTRAINT VIOLATIONS      0

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|          PARATIE PLUS 2014 NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Sept23, 2015*          |
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|          NewProject.BaseDesignSection_25.Nominal_60          |
|          Exe Time :29 June 2020          20:30:03          |
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New Project
SOLUTION REACHED USING 5 ITERATIONS ON 40

PRINT OUT FOR TIME STEP 2 (AT TIME 2.000)

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

	Y-DISPL.F (02)	X-ROT. F (04)	(
1	8.7890836E-03	-1.2771867E-03	
2	8.5336463E-03	-1.2771867E-03	
3	8.2782095E-03	-1.2771791E-03	
4	8.0227767E-03	-1.2771412E-03	
5	7.7673575E-03	-1.2770351E-03	
6	7.5119705E-03	-1.2768077E-03	
7	7.2566468E-03	-1.2763908E-03	
8	7.0014324E-03	-1.2757009E-03	
9	6.7463913E-03	-1.2746397E-03	
10	6.4916090E-03	-1.2730932E-03	
11	6.2371949E-03	-1.2709328E-03	
12	5.9832863E-03	-1.2680143E-03	
13	5.7300503E-03	-1.2641785E-03	
14	5.4776878E-03	-1.2592511E-03	
15	5.2264354E-03	-1.2530426E-03	
16	4.9765699E-03	-1.2453483E-03	
17	4.7284099E-03	-1.2359483E-03	
18	4.4823199E-03	-1.2246077E-03	
19	4.2387129E-03	-1.2110761E-03	
20	3.9980532E-03	-1.1950884E-03	
21	3.7608600E-03	-1.1763640E-03	
22	3.5277024E-03	-1.1547172E-03	
23	3.2991702E-03	-1.1301139E-03	
24	3.0758497E-03	-1.1026182E-03	
25	2.8583049E-03	-1.0723925E-03	
26	2.6470573E-03	-1.0396977E-03	
27	2.4425688E-03	-1.0048422E-03	
28	2.2452432E-03	-9.6812937E-04	
29	2.0554213E-03	-9.2985278E-04	
30	1.8733873E-03	-8.9029771E-04	
31	1.6993699E-03	-8.4974153E-04	
32	1.5335404E-03	-8.0845348E-04	
33	1.3760197E-03	-7.6669637E-04	
34	1.2268760E-03	-7.2472640E-04	
35	1.0861267E-03	-6.8279384E-04	
36	9.5373967E-04	-6.4114364E-04	
37	8.2963506E-04	-6.0000610E-04	
38	7.1368946E-04	-5.5958512E-04	
39	6.0574200E-04	-5.2005738E-04	
40	5.0559748E-04	-4.8157335E-04	
41	4.1303459E-04	-4.4426032E-04	
42	3.2780828E-04	-4.0822332E-04	
43	2.4965455E-04	-3.7354708E-04	
44	1.7829467E-04	-3.4029777E-04	
45	1.1343743E-04	-3.0852402E-04	
46	5.4784462E-05	-2.7825934E-04	
47	2.0317480E-06	-2.4952386E-04	
48	-4.5127660E-05	-2.2232707E-04	
49	-8.7001623E-05	-1.9666842E-04	
50	-1.2389669E-04	-1.7253747E-04	
51	-1.5611696E-04	-1.4991455E-04	
52	-1.8396124E-04	-1.2877257E-04	
53	-2.0772245E-04	-1.0907752E-04	
54	-2.2768605E-04	-9.0789485E-05	
55	-2.4412898E-04	-7.3863653E-05	
56	-2.5731896E-04	-5.8250803E-05	
57	-2.6751335E-04	-4.3898743E-05	
58	-2.7495886E-04	-3.0752755E-05	
59	-2.7989109E-04	-1.8756282E-05	
60	-2.8253415E-04	-7.8515287E-06	
61	-2.8310055E-04	2.0202508E-06	
62	-2.8179093E-04	1.0918182E-05	
63	-2.7879446E-04	1.8900337E-05	
64	-2.7428802E-04	2.6026194E-05	
65	-2.6843726E-04	3.2352995E-05	
66	-2.6139632E-04	3.7937323E-05	
67	-2.5330814E-04	4.2834418E-05	
68	-2.4430479E-04	4.7097940E-05	
69	-2.3450775E-04	5.0779771E-05	
70	-2.2402833E-04	5.3929830E-05	
71	-2.1296808E-04	5.6595923E-05	
72	-2.0141919E-04	5.8823610E-05	
73	-1.8946498E-04	6.0656094E-05	
74	-1.7718038E-04	6.2134128E-05	

75	-1.6463241E-04	6.3295938E-05
76	-1.5188071E-04	6.4177160E-05
77	-1.3897805E-04	6.4810794E-05
78	-1.2597038E-04	6.5234582E-05
79	-1.1289543E-04	6.5490291E-05
80	-9.9782962E-05	6.5615578E-05
81	-8.6655655E-05	6.5643968E-05
82	-7.3529875E-05	6.5604854E-05
83	-6.0416530E-05	6.5523486E-05
84	-4.7321890E-05	6.5420980E-05
85	-3.4248415E-05	6.5314320E-05
86	-2.1195582E-05	6.5216366E-05
87	-8.1607059E-06	6.5135857E-05
88	4.8602374E-06	6.5077492E-05
89	1.7871823E-05	6.5042108E-05
90	3.0878396E-05	6.5026460E-05
91	4.3883862E-05	6.5022889E-05

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|                PARATIE PLUS 2014 NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Sept23, 2015*                |
|                                                                                                                    |
|                NewProject.BaseDesignSection_25.Nominal_60                                                         |
|                Exe Time :29 June 2020      20:30:03                                                                |
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New Project

STRESS RESULTS FOR GROUP NO. 1

0_L :
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 91
CURRENT TIME IS 2.0000

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 LAYER	MAX-H-P	STATE	STIFFNESS	Z-LEVEL	PORE	E FAC-
1 D	0.000	-8.7891E-03	0.000	0.000	0.000	0.000	ACTIVE	0.000	2.000	0.000	
1.000	1.000	0.000	0.000	0.000	FRANA_334_8_L_0						
2 D	0.4880	-8.5336E-03	4.000	2.440	4.000	3.084	ACTIVE	0.000	1.800	0.000	
1.000	1.000	2.440	0.000	0.000	FRANA_334_8_L_0						
3 D	0.9760	-8.2782E-03	8.000	4.880	8.000	6.168	ACTIVE	0.000	1.600	0.000	
1.000	1.000	4.880	0.000	0.000	FRANA_334_8_L_0						
4 D	1.464	-8.0228E-03	12.00	7.320	12.00	9.252	ACTIVE	0.000	1.400	0.000	
1.000	1.000	7.320	0.000	0.000	FRANA_334_8_L_0						
5 D	1.952	-7.7674E-03	16.00	9.760	16.00	12.34	ACTIVE	0.000	1.200	0.000	
1.000	1.000	9.760	0.000	0.000	FRANA_334_8_L_0						
6 D	2.440	-7.5120E-03	20.00	12.20	20.00	15.42	ACTIVE	0.000	1.000	0.000	
1.000	1.000	12.20	0.000	0.000	FRANA_334_8_L_0						
7 D	2.928	-7.2566E-03	24.00	14.64	24.00	18.50	ACTIVE	0.000	0.8000	0.000	
1.000	1.000	14.64	0.000	0.000	FRANA_334_8_L_0						
8 D	3.416	-7.0014E-03	28.00	17.08	28.00	21.59	ACTIVE	0.000	0.6000	0.000	
1.000	1.000	17.08	0.000	0.000	FRANA_334_8_L_0						
9 D	3.904	-6.7464E-03	32.00	19.52	32.00	24.67	ACTIVE	0.000	0.4000	0.000	
1.000	1.000	19.52	0.000	0.000	FRANA_334_8_L_0						
10 D	4.392	-6.4916E-03	36.00	21.96	36.00	27.76	ACTIVE	0.000	0.2000	0.000	
1.000	1.000	21.96	0.000	0.000	FRANA_334_8_L_0						
11 D	4.880	-6.2372E-03	40.00	24.40	40.00	30.84	ACTIVE	0.000	-1.4901E-07	0.000	
1.000	1.000	24.40	0.000	0.000	FRANA_334_8_L_0						
12 D	5.368	-5.9833E-03	44.00	26.84	44.00	33.92	ACTIVE	0.000	-0.2000	0.000	
1.000	1.000	26.84	0.000	0.000	FRANA_334_8_L_0						
13 D	5.856	-5.7301E-03	48.00	29.28	48.00	37.01	ACTIVE	0.000	-0.4000	0.000	
1.000	1.000	29.28	0.000	0.000	FRANA_334_8_L_0						
14 D	6.344	-5.4777E-03	52.00	31.72	52.00	40.09	ACTIVE	0.000	-0.6000	0.000	
1.000	1.000	31.72	0.000	0.000	FRANA_334_8_L_0						
15 D	6.832	-5.2264E-03	56.00	34.16	56.00	43.17	ACTIVE	0.000	-0.8000	0.000	
1.000	1.000	34.16	0.000	0.000	FRANA_334_8_L_0						
16 D	7.321	-4.9766E-03	60.00	36.60	60.00	46.25	ACTIVE	0.000	-1.000	0.000	
1.000	1.000	36.60	0.000	0.000	FRANA_334_8_L_0						
17 D	7.809	-4.7284E-03	64.01	39.04	64.01	49.34	ACTIVE	0.000	-1.200	0.000	
1.000	1.000	39.04	0.000	0.000	FRANA_334_8_L_0						
18 D	8.297	-4.4823E-03	68.01	41.48	68.01	52.42	ACTIVE	0.000	-1.400	0.000	
1.000	1.000	41.48	0.000	0.000	FRANA_334_8_L_0						
19 D	8.785	-4.2387E-03	72.01	43.92	72.01	55.50	ACTIVE	0.000	-1.600	0.000	
1.000	1.000	43.92	0.000	0.000	FRANA_334_8_L_0						
20 D	9.273	-3.9981E-03	76.01	46.37	76.01	58.58	ACTIVE	0.000	-1.800	0.000	
1.000	1.000	46.37	0.000	0.000	FRANA_334_8_L_0						
21 D	4.752	-3.7609E-03	80.01	23.76	80.01	41.02	ACTIVE	0.000	-2.000	0.000	
1.000	1.000	23.76	0.000	0.000	BNA3(2)_335_337_L_0						
22 D	5.018	-3.5277E-03	84.01	25.09	84.01	43.07	ACTIVE	0.000	-2.200	0.000	
1.000	1.000	25.09	0.000	0.000	BNA3(2)_335_337_L_0						
23 D	5.285	-3.2992E-03	88.01	26.42	88.01	45.12	ACTIVE	0.000	-2.400	0.000	
1.000	1.000	26.42	0.000	0.000	BNA3(2)_335_337_L_0						
24 D	5.551	-3.0758E-03	92.02	27.76	92.02	47.17	ACTIVE	0.000	-2.600	0.000	
1.000	1.000	27.76	0.000	0.000	BNA3(2)_335_337_L_0						
25 D	5.818	-2.8583E-03	96.02	29.09	96.02	49.22	ACTIVE	0.000	-2.800	0.000	
1.000	1.000	29.09	0.000	0.000	BNA3(2)_335_337_L_0						
26 D	6.084	-2.6471E-03	100.0	30.42	100.0	51.26	ACTIVE	0.000	-3.000	0.000	
1.000	1.000	30.42	0.000	0.000	BNA3(2)_335_337_L_0						
27 D	6.351	-2.4426E-03	104.0	31.75	104.0	53.31	ACTIVE	0.000	-3.200	0.000	
1.000	1.000	31.75	0.000	0.000	BNA3(2)_335_337_L_0						
28 D	6.617	-2.2452E-03	108.0	33.09	108.0	55.36	ACTIVE	0.000	-3.400	0.000	
1.000	1.000	33.09	0.000	0.000	BNA3(2)_335_337_L_0						
29 D	6.884	-2.0554E-03	112.0	34.42	112.0	57.41	ACTIVE	0.000	-3.600	0.000	
1.000	1.000	34.42	0.000	0.000	BNA3(2)_335_337_L_0						
30 D	7.151	-1.8734E-03	116.0	35.75	116.0	59.45	ACTIVE	0.000	-3.800	0.000	
1.000	1.000	35.75	0.000	0.000	BNA3(2)_335_337_L_0						
31 D	7.417	-1.6994E-03	120.0	37.09	120.0	61.50	ACTIVE	0.000	-4.000	0.000	
1.000	1.000	37.09	0.000	0.000	BNA3(2)_335_337_L_0						
32 D	7.684	-1.5335E-03	124.0	38.42	124.0	63.54	ACTIVE	0.000	-4.200	0.000	
1.000	1.000	38.42	0.000	0.000	BNA3(2)_335_337_L_0						
33 D	7.950	-1.3760E-03	128.0	39.75	128.0	65.59	ACTIVE	0.000	-4.400	0.000	
1.000	1.000	39.75	0.000	0.000	BNA3(2)_335_337_L_0						

34 D	8.217	-1.2269E-03	132.0	41.09	132.0	67.63	ACTIVE	0.000	-4.600	0.000
1.000	1.000	41.09	0.000	0.000	BNA3(2)_335_337_L_0					
35 D	8.484	-1.0861E-03	136.0	42.42	136.0	69.68	ACTIVE	0.000	-4.800	0.000
1.000	1.000	42.42	0.000	0.000	BNA3(2)_335_337_L_0					
36 D	9.388	-9.5374E-04	140.1	46.94	140.1	71.72	UL-RL	2.5981E+04	-5.000	0.000
1.000	1.000	46.94	0.000	0.000	BNA3(2)_335_337_L_0					
37 D	10.44	-8.2964E-04	144.1	52.21	144.1	73.76	UL-RL	2.5981E+04	-5.200	0.000
1.000	1.000	52.21	0.000	0.000	BNA3(2)_335_337_L_0					
38 D	11.45	-7.1369E-04	148.1	57.27	148.1	75.81	UL-RL	2.5981E+04	-5.400	0.000
1.000	1.000	57.27	0.000	0.000	BNA3(2)_335_337_L_0					
39 D	12.42	-6.0574E-04	152.1	62.11	152.1	77.85	UL-RL	2.5981E+04	-5.600	0.000
1.000	1.000	62.11	0.000	0.000	BNA3(2)_335_337_L_0					
40 D	13.35	-5.0560E-04	156.1	66.76	156.1	79.89	UL-RL	2.5981E+04	-5.800	0.000
1.000	1.000	66.76	0.000	0.000	BNA3(2)_335_337_L_0					
41 D	14.24	-4.1303E-04	160.1	71.20	160.1	81.93	UL-RL	2.5981E+04	-6.000	0.000
1.000	1.000	71.20	0.000	0.000	BNA3(2)_335_337_L_0					
42 D	15.09	-3.2781E-04	164.1	75.46	164.1	83.97	UL-RL	2.5981E+04	-6.200	0.000
1.000	1.000	75.46	0.000	0.000	BNA3(2)_335_337_L_0					
43 D	15.91	-2.4965E-04	168.1	79.53	168.1	86.01	UL-RL	2.5981E+04	-6.400	0.000
1.000	1.000	79.53	0.000	0.000	BNA3(2)_335_337_L_0					
44 D	16.68	-1.7829E-04	172.1	83.42	172.1	88.05	UL-RL	2.5981E+04	-6.600	0.000
1.000	1.000	83.42	0.000	0.000	BNA3(2)_335_337_L_0					
45 D	17.43	-1.1344E-04	176.1	87.15	176.1	90.09	UL-RL	2.5981E+04	-6.800	0.000
1.000	1.000	87.15	0.000	0.000	BNA3(2)_335_337_L_0					
46 D	18.08	-5.4784E-05	180.1	90.42	180.1	92.61	UL-RL	2.5981E+04	-7.000	0.000
1.000	1.000	90.42	0.000	0.000	BNA3(2)_335_337_L_0					
47 D	18.69	-2.0317E-06	184.1	93.45	184.1	95.29	UL-RL	2.5981E+04	-7.200	0.000
1.000	1.000	93.45	0.000	0.000	BNA3(2)_335_337_L_0					
48 D	19.27	4.5128E-05	188.1	96.37	188.1	97.90	UL-RL	2.5981E+04	-7.400	0.000
1.000	1.000	96.37	0.000	0.000	BNA3(2)_335_337_L_0					
49 D	19.84	8.7002E-05	192.1	99.20	192.1	100.4	UL-RL	2.5981E+04	-7.600	0.000
1.000	1.000	99.20	0.000	0.000	BNA3(2)_335_337_L_0					
50 D	20.39	1.2390E-04	196.1	101.9	196.1	102.9	UL-RL	2.5981E+04	-7.800	0.000
1.000	1.000	101.9	0.000	0.000	BNA3(2)_335_337_L_0					
51 D	20.92	1.5612E-04	200.1	104.6	200.1	105.3	UL-RL	2.5981E+04	-8.000	0.000
1.000	1.000	104.6	0.000	0.000	BNA3(2)_335_337_L_0					
52 D	21.43	1.8396E-04	204.1	107.2	204.1	107.7	UL-RL	2.5981E+04	-8.200	0.000
1.000	1.000	107.2	0.000	0.000	BNA3(2)_335_337_L_0					
53 D	21.93	2.0772E-04	208.2	109.6	208.2	110.0	UL-RL	2.5981E+04	-8.400	0.000
1.000	1.000	109.6	0.000	0.000	BNA3(2)_335_337_L_0					
54 D	22.42	2.2769E-04	212.2	112.1	212.2	112.2	UL-RL	2.5981E+04	-8.600	0.000
1.000	1.000	112.1	0.000	0.000	BNA3(2)_335_337_L_0					
55 D	22.88	2.4413E-04	216.2	114.4	216.2	114.4	V-C	1.6238E+04	-8.800	0.000
1.000	1.000	114.4	0.000	0.000	BNA3(2)_335_337_L_0					
56 D	23.33	2.5732E-04	220.2	116.7	220.2	116.7	V-C	1.6238E+04	-9.000	0.000
1.000	1.000	116.7	0.000	0.000	BNA3(2)_335_337_L_0					
57 D	23.77	2.6751E-04	224.2	118.9	224.2	118.9	V-C	1.6238E+04	-9.200	0.000
1.000	1.000	118.9	0.000	0.000	BNA3(2)_335_337_L_0					
58 D	24.20	2.7496E-04	228.2	121.0	228.2	121.0	V-C	1.6238E+04	-9.400	0.000
1.000	1.000	121.0	0.000	0.000	BNA3(2)_335_337_L_0					
59 D	24.63	2.7989E-04	232.2	123.1	232.2	123.1	V-C	1.6238E+04	-9.600	0.000
1.000	1.000	123.1	0.000	0.000	BNA3(2)_335_337_L_0					
60 D	25.04	2.8253E-04	236.2	125.2	236.2	125.2	V-C	1.6238E+04	-9.800	0.000
1.000	1.000	125.2	0.000	0.000	BNA3(2)_335_337_L_0					
61 D	25.45	2.8310E-04	240.2	127.2	240.2	127.2	V-C	1.6238E+04	-10.000	0.000
1.000	1.000	127.2	0.000	0.000	BNA3(2)_335_337_L_0					
62 D	25.85	2.8179E-04	244.2	129.3	244.2	129.3	V-C	1.6238E+04	-10.200	0.000
1.000	1.000	129.3	0.000	0.000	BNA3(2)_335_337_L_0					
63 D	26.25	2.7879E-04	248.2	131.2	248.2	131.2	V-C	1.6238E+04	-10.400	0.000
1.000	1.000	131.2	0.000	0.000	BNA3(2)_335_337_L_0					
64 D	26.64	2.7429E-04	252.3	133.2	252.3	133.2	V-C	1.6238E+04	-10.600	0.000
1.000	1.000	133.2	0.000	0.000	BNA3(2)_335_337_L_0					
65 D	27.03	2.6844E-04	256.3	135.1	256.3	135.1	V-C	1.6238E+04	-10.800	0.000
1.000	1.000	135.1	0.000	0.000	BNA3(2)_335_337_L_0					
66 D	27.41	2.6140E-04	260.3	137.0	260.3	137.0	V-C	1.6238E+04	-11.000	0.000
1.000	1.000	137.0	0.000	0.000	BNA3(2)_335_337_L_0					
67 D	27.79	2.5331E-04	264.3	138.9	264.3	138.9	V-C	1.6238E+04	-11.200	0.000
1.000	1.000	138.9	0.000	0.000	BNA3(2)_335_337_L_0					
68 D	28.16	2.4430E-04	268.3	140.8	268.3	140.8	V-C	1.6238E+04	-11.400	0.000
1.000	1.000	140.8	0.000	0.000	BNA3(2)_335_337_L_0					
69 D	28.54	2.3451E-04	272.3	142.7	272.3	142.7	V-C	1.6238E+04	-11.600	0.000
1.000	1.000	142.7	0.000	0.000	BNA3(2)_335_337_L_0					
70 D	28.91	2.2403E-04	276.3	144.5	276.3	144.5	V-C	1.6238E+04	-11.800	0.000
1.000	1.000	144.5	0.000	0.000	BNA3(2)_335_337_L_0					
71 D	29.28	2.1297E-04	280.3	146.4	280.3	146.4	V-C	1.6238E+04	-12.000	0.000
1.000	1.000	146.4	0.000	0.000	BNA3(2)_335_337_L_0					
72 D	29.64	2.0142E-04	284.4	148.2	284.4	148.2	V-C	1.6238E+04	-12.200	0.000
1.000	1.000	148.2	0.000	0.000	BNA3(2)_335_337_L_0					
73 D	30.01	1.8946E-04	288.4	150.1	288.4	150.1	V-C	1.6238E+04	-12.400	0.000
1.000	1.000	150.1	0.000	0.000	BNA3(2)_335_337_L_0					
74 D	30.37	1.7718E-04	292.4	151.9	292.4	151.9	V-C	1.6238E+04	-12.600	0.000
1.000	1.000	151.9	0.000	0.000	BNA3(2)_335_337_L_0					
75 D	30.74	1.6463E-04	296.4	153.7	296.4	153.7	V-C	1.6238E+04	-12.800	0.000
1.000	1.000	153.7	0.000	0.000	BNA3(2)_335_337_L_0					
76 D	31.10	1.5188E-04	300.4	155.5	300.4	155.5	V-C	1.6238E+04	-13.000	0.000
1.000	1.000	155.5	0.000	0.000	BNA3(2)_335_337_L_0					
77 D	36.31	1.3898E-04	304.4	181.5	304.4	181.5	V-C	2.2074E+04	-13.200	0.000
1.000	1.000	181.5	0.000	0.000	BNA3(3)_336_338_L_0					
78 D	36.72	1.2597E-04	308.4	183.6	308.4	183.6	V-C	2.2074E+04	-13.400	0.000
1.000	1.000	183.6	0.000	0.000	BNA3(3)_336_338_L_0					
79 D	37.12	1.1290E-04	312.4	185.6	312.4	185.6	V-C	2.2074E+04	-13.600	0.000
1.000	1.000	185.6	0.000	0.000	BNA3(3)_336_338_L_0					

80 D	37.53	9.9783E-05	316.5	187.7	316.5	187.7	V-C	2.2074E+04	-13.80	0.000
1.000	1.000	187.7	0.000	0.000	BNA3(3)_336_338_L_0					
81 D	37.94	8.6656E-05	320.5	189.7	320.5	189.7	V-C	2.2074E+04	-14.00	0.000
1.000	1.000	189.7	0.000	0.000	BNA3(3)_336_338_L_0					
82 D	38.35	7.3530E-05	324.5	191.7	324.5	191.7	V-C	2.2074E+04	-14.20	0.000
1.000	1.000	191.7	0.000	0.000	BNA3(3)_336_338_L_0					
83 D	38.75	6.0417E-05	328.5	193.8	328.5	193.8	V-C	2.2074E+04	-14.40	0.000
1.000	1.000	193.8	0.000	0.000	BNA3(3)_336_338_L_0					
84 D	39.16	4.7322E-05	332.5	195.8	332.5	195.8	V-C	2.2074E+04	-14.60	0.000
1.000	1.000	195.8	0.000	0.000	BNA3(3)_336_338_L_0					
85 D	39.57	3.4248E-05	336.5	197.8	336.5	197.8	V-C	2.2074E+04	-14.80	0.000
1.000	1.000	197.8	0.000	0.000	BNA3(3)_336_338_L_0					
86 D	39.98	2.1196E-05	340.5	199.9	340.5	199.9	V-C	2.2074E+04	-15.00	0.000
1.000	1.000	199.9	0.000	0.000	BNA3(3)_336_338_L_0					
87 D	40.38	8.1607E-06	344.6	201.9	344.6	201.9	V-C	2.2074E+04	-15.20	0.000
1.000	1.000	201.9	0.000	0.000	BNA3(3)_336_338_L_0					
88 D	40.78	-4.8602E-06	348.6	203.9	348.6	204.1	UL-RL	3.5318E+04	-15.40	0.000
1.000	1.000	203.9	0.000	0.000	BNA3(3)_336_338_L_0					
89 D	41.15	-1.7872E-05	352.6	205.8	352.6	206.4	UL-RL	3.5318E+04	-15.60	0.000
1.000	1.000	205.8	0.000	0.000	BNA3(3)_336_338_L_0					
90 D	41.52	-3.0878E-05	356.6	207.6	356.6	208.7	UL-RL	3.5318E+04	-15.80	0.000
1.000	1.000	207.6	0.000	0.000	BNA3(3)_336_338_L_0					
91 D	20.95	-4.3884E-05	360.6	209.5	360.6	211.0	UL-RL	3.5318E+04	-16.00	0.000
1.000	1.000	209.5	0.000	0.000	BNA3(3)_336_338_L_0					

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|                PARATIE PLUS 2014 NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Sept23, 2015*                |
|                                                                                                                    |
|                NewProject.BaseDesignSection_25.Nominal_60                                                         |
|                Exe Time :29 June 2020      20:30:03                                                                |
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New Project

STRESS RESULTS FOR GROUP NO. 2

O_R :
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 91
CURRENT TIME IS 2.0000

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 LAYER	MAX-H-P	STATE	STIFFNESS	Z-LEVEL	PORE	E FAC-
1	0.000	--	--	--	--	--	REMOVED	--	2.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
2	0.000	--	--	--	--	--	REMOVED	--	1.800	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
3	0.000	--	--	--	--	--	REMOVED	--	1.600	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
4	0.000	--	--	--	--	--	REMOVED	--	1.400	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
5	0.000	--	--	--	--	--	REMOVED	--	1.200	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
6	0.000	--	--	--	--	--	REMOVED	--	1.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
7	0.000	--	--	--	--	--	REMOVED	--	0.8000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
8	0.000	--	--	--	--	--	REMOVED	--	0.6000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
9	0.000	--	--	--	--	--	REMOVED	--	0.4000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
10	0.000	--	--	--	--	--	REMOVED	--	0.2000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
11	0.000	--	--	--	--	--	REMOVED	--	-1.4901E-07	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
12	0.000	--	--	--	--	--	REMOVED	--	-0.2000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
13	0.000	--	--	--	--	--	REMOVED	--	-0.4000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
14	0.000	--	--	--	--	--	REMOVED	--	-0.6000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
15	0.000	--	--	--	--	--	REMOVED	--	-0.8000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
16	0.000	--	--	--	--	--	REMOVED	--	-1.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
17	0.000	--	--	--	--	--	REMOVED	--	-1.200	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
18	0.000	--	--	--	--	--	REMOVED	--	-1.400	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
19	0.000	--	--	--	--	--	REMOVED	--	-1.600	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
20	0.000	--	--	--	--	--	REMOVED	--	-1.800	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
21 D	2.071	3.7609E-03	0.000	10.35	80.00	41.02	PASSIVE	0.000	-2.000	0.000	
1.000	1.000	10.35	0.000	0.000	BNA3(2)_335_337_L_0						
22 D	5.501	3.5277E-03	4.000	27.51	84.00	43.07	PASSIVE	0.000	-2.200	0.000	
1.000	1.000	27.51	0.000	0.000	BNA3(2)_335_337_L_0						
23 D	8.932	3.2992E-03	8.000	44.66	88.00	45.12	PASSIVE	0.000	-2.400	0.000	
1.000	1.000	44.66	0.000	0.000	BNA3(2)_335_337_L_0						
24 D	12.36	3.0758E-03	12.00	61.81	92.00	61.81	PASSIVE	0.000	-2.600	0.000	
1.000	1.000	61.81	0.000	0.000	BNA3(2)_335_337_L_0						
25 D	15.79	2.8583E-03	16.00	78.96	96.00	78.96	PASSIVE	0.000	-2.800	0.000	
1.000	1.000	78.96	0.000	0.000	BNA3(2)_335_337_L_0						
26 D	15.98	2.6471E-03	20.00	79.92	100.0	79.92	V-C	1.0825E+04	-3.000	0.000	
1.000	1.000	79.92	0.000	0.000	BNA3(2)_335_337_L_0						
27 D	15.95	2.4426E-03	24.00	79.75	104.0	79.75	V-C	1.0825E+04	-3.200	0.000	
1.000	1.000	79.75	0.000	0.000	BNA3(2)_335_337_L_0						
28 D	15.93	2.2452E-03	28.00	79.66	108.0	79.66	V-C	1.0825E+04	-3.400	0.000	
1.000	1.000	79.66	0.000	0.000	BNA3(2)_335_337_L_0						
29 D	15.93	2.0554E-03	32.00	79.66	112.0	79.66	V-C	1.0825E+04	-3.600	0.000	
1.000	1.000	79.66	0.000	0.000	BNA3(2)_335_337_L_0						
30 D	15.95	1.8734E-03	36.00	79.73	116.0	79.73	V-C	1.0825E+04	-3.800	0.000	
1.000	1.000	79.73	0.000	0.000	BNA3(2)_335_337_L_0						
31 D	15.98	1.6994E-03	40.00	79.89	120.0	79.89	V-C	1.0825E+04	-4.000	0.000	
1.000	1.000	79.89	0.000	0.000	BNA3(2)_335_337_L_0						
32 D	16.03	1.5335E-03	44.00	80.14	124.0	80.14	V-C	1.0825E+04	-4.200	0.000	
1.000	1.000	80.14	0.000	0.000	BNA3(2)_335_337_L_0						
33 D	16.10	1.3760E-03	48.00	80.48	128.0	80.48	V-C	1.0825E+04	-4.400	0.000	
1.000	1.000	80.48	0.000	0.000	BNA3(2)_335_337_L_0						

34 D	16.18	1.2269E-03	52.00	80.91	132.0	80.91	V-C	1.0825E+04	-4.600	0.000
1.000	1.000	80.91	0.000	0.000	BNA3(2)_335_337_L_0					
35 D	16.29	1.0861E-03	56.00	81.44	136.0	81.44	V-C	1.0825E+04	-4.800	0.000
1.000	1.000	81.44	0.000	0.000	BNA3(2)_335_337_L_0					
36 D	16.41	9.5374E-04	60.00	82.05	140.0	82.05	V-C	1.0825E+04	-5.000	0.000
1.000	1.000	82.05	0.000	0.000	BNA3(2)_335_337_L_0					
37 D	16.55	8.2964E-04	64.00	82.75	144.0	82.75	V-C	1.0825E+04	-5.200	0.000
1.000	1.000	82.75	0.000	0.000	BNA3(2)_335_337_L_0					
38 D	16.71	7.1369E-04	68.00	83.53	148.0	83.53	V-C	1.0825E+04	-5.400	0.000
1.000	1.000	83.53	0.000	0.000	BNA3(2)_335_337_L_0					
39 D	16.88	6.0574E-04	72.00	84.41	152.0	84.41	V-C	1.0825E+04	-5.600	0.000
1.000	1.000	84.41	0.000	0.000	BNA3(2)_335_337_L_0					
40 D	17.07	5.0560E-04	76.00	85.36	156.0	85.36	V-C	1.0825E+04	-5.800	0.000
1.000	1.000	85.36	0.000	0.000	BNA3(2)_335_337_L_0					
41 D	17.28	4.1303E-04	80.00	86.40	160.0	86.40	V-C	1.0825E+04	-6.000	0.000
1.000	1.000	86.40	0.000	0.000	BNA3(2)_335_337_L_0					
42 D	17.50	3.2781E-04	84.00	87.52	164.0	87.52	V-C	1.0825E+04	-6.200	0.000
1.000	1.000	87.52	0.000	0.000	BNA3(2)_335_337_L_0					
43 D	17.74	2.4965E-04	88.00	88.72	168.0	88.72	V-C	1.0825E+04	-6.400	0.000
1.000	1.000	88.72	0.000	0.000	BNA3(2)_335_337_L_0					
44 D	18.00	1.7829E-04	92.00	89.98	172.0	89.98	V-C	1.0825E+04	-6.600	0.000
1.000	1.000	89.98	0.000	0.000	BNA3(2)_335_337_L_0					
45 D	18.26	1.1344E-04	96.00	91.32	176.0	91.32	V-C	1.0825E+04	-6.800	0.000
1.000	1.000	91.32	0.000	0.000	BNA3(2)_335_337_L_0					
46 D	18.55	5.4784E-05	100.0	92.73	180.0	92.73	V-C	1.0825E+04	-7.000	0.000
1.000	1.000	92.73	0.000	0.000	BNA3(2)_335_337_L_0					
47 D	18.84	2.0317E-06	104.0	94.19	184.0	94.19	V-C	1.0825E+04	-7.200	0.000
1.000	1.000	94.19	0.000	0.000	BNA3(2)_335_337_L_0					
48 D	19.09	-4.5128E-05	108.0	95.43	188.0	96.21	UL-RL	1.7321E+04	-7.400	0.000
1.000	1.000	95.43	0.000	0.000	BNA3(2)_335_337_L_0					
49 D	19.35	-8.7002E-05	112.0	96.74	192.0	98.25	UL-RL	1.7321E+04	-7.600	0.000
1.000	1.000	96.74	0.000	0.000	BNA3(2)_335_337_L_0					
50 D	19.63	-1.2390E-04	116.0	98.14	196.0	100.3	UL-RL	1.7321E+04	-7.800	0.000
1.000	1.000	98.14	0.000	0.000	BNA3(2)_335_337_L_0					
51 D	19.92	-1.5612E-04	120.0	99.62	200.0	102.3	UL-RL	1.7321E+04	-8.000	0.000
1.000	1.000	99.62	0.000	0.000	BNA3(2)_335_337_L_0					
52 D	20.23	-1.8396E-04	124.0	101.2	204.0	104.4	UL-RL	1.7321E+04	-8.200	0.000
1.000	1.000	101.2	0.000	0.000	BNA3(2)_335_337_L_0					
53 D	20.56	-2.0772E-04	128.0	102.8	208.0	106.4	UL-RL	1.7321E+04	-8.400	0.000
1.000	1.000	102.8	0.000	0.000	BNA3(2)_335_337_L_0					
54 D	20.90	-2.2769E-04	132.0	104.5	212.0	108.4	UL-RL	1.7321E+04	-8.600	0.000
1.000	1.000	104.5	0.000	0.000	BNA3(2)_335_337_L_0					
55 D	21.25	-2.4413E-04	136.0	106.2	216.0	110.5	UL-RL	1.7321E+04	-8.800	0.000
1.000	1.000	106.2	0.000	0.000	BNA3(2)_335_337_L_0					
56 D	21.61	-2.5732E-04	140.0	108.0	220.0	112.5	UL-RL	1.7321E+04	-9.000	0.000
1.000	1.000	108.0	0.000	0.000	BNA3(2)_335_337_L_0					
57 D	21.98	-2.6751E-04	144.0	109.9	224.0	114.5	UL-RL	1.7321E+04	-9.200	0.000
1.000	1.000	109.9	0.000	0.000	BNA3(2)_335_337_L_0					
58 D	22.36	-2.7496E-04	148.0	111.8	228.0	116.6	UL-RL	1.7321E+04	-9.400	0.000
1.000	1.000	111.8	0.000	0.000	BNA3(2)_335_337_L_0					
59 D	22.75	-2.7989E-04	152.0	113.7	232.0	118.6	UL-RL	1.7321E+04	-9.600	0.000
1.000	1.000	113.7	0.000	0.000	BNA3(2)_335_337_L_0					
60 D	23.15	-2.8253E-04	156.0	115.7	236.0	120.6	UL-RL	1.7321E+04	-9.800	0.000
1.000	1.000	115.7	0.000	0.000	BNA3(2)_335_337_L_0					
61 D	23.55	-2.8310E-04	160.0	117.7	240.0	122.7	UL-RL	1.7321E+04	-10.000	0.000
1.000	1.000	117.7	0.000	0.000	BNA3(2)_335_337_L_0					
62 D	23.96	-2.8179E-04	164.0	119.8	244.0	124.7	UL-RL	1.7321E+04	-10.200	0.000
1.000	1.000	119.8	0.000	0.000	BNA3(2)_335_337_L_0					
63 D	24.38	-2.7879E-04	168.0	121.9	248.0	126.7	UL-RL	1.7321E+04	-10.400	0.000
1.000	1.000	121.9	0.000	0.000	BNA3(2)_335_337_L_0					
64 D	24.80	-2.7429E-04	172.0	124.0	252.0	128.7	UL-RL	1.7321E+04	-10.600	0.000
1.000	1.000	124.0	0.000	0.000	BNA3(2)_335_337_L_0					
65 D	25.22	-2.6844E-04	176.0	126.1	256.0	130.8	UL-RL	1.7321E+04	-10.800	0.000
1.000	1.000	126.1	0.000	0.000	BNA3(2)_335_337_L_0					
66 D	25.65	-2.6140E-04	180.0	128.3	260.0	132.8	UL-RL	1.7321E+04	-11.000	0.000
1.000	1.000	128.3	0.000	0.000	BNA3(2)_335_337_L_0					
67 D	26.09	-2.5331E-04	184.0	130.4	264.0	134.8	UL-RL	1.7321E+04	-11.200	0.000
1.000	1.000	130.4	0.000	0.000	BNA3(2)_335_337_L_0					
68 D	26.52	-2.4430E-04	188.0	132.6	268.0	136.8	UL-RL	1.7321E+04	-11.400	0.000
1.000	1.000	132.6	0.000	0.000	BNA3(2)_335_337_L_0					
69 D	26.96	-2.3451E-04	192.0	134.8	272.0	138.9	UL-RL	1.7321E+04	-11.600	0.000
1.000	1.000	134.8	0.000	0.000	BNA3(2)_335_337_L_0					
70 D	27.40	-2.2403E-04	196.0	137.0	276.0	140.9	UL-RL	1.7321E+04	-11.800	0.000
1.000	1.000	137.0	0.000	0.000	BNA3(2)_335_337_L_0					
71 D	27.85	-2.1297E-04	200.0	139.2	280.0	142.9	UL-RL	1.7321E+04	-12.000	0.000
1.000	1.000	139.2	0.000	0.000	BNA3(2)_335_337_L_0					
72 D	28.29	-2.0142E-04	204.0	141.5	284.0	145.0	UL-RL	1.7321E+04	-12.200	0.000
1.000	1.000	141.5	0.000	0.000	BNA3(2)_335_337_L_0					
73 D	28.74	-1.8946E-04	208.0	143.7	288.0	147.0	UL-RL	1.7321E+04	-12.400	0.000
1.000	1.000	143.7	0.000	0.000	BNA3(2)_335_337_L_0					
74 D	29.19	-1.7718E-04	212.0	145.9	292.0	149.0	UL-RL	1.7321E+04	-12.600	0.000
1.000	1.000	145.9	0.000	0.000	BNA3(2)_335_337_L_0					
75 D	29.63	-1.6463E-04	216.0	148.2	296.0	151.0	UL-RL	1.7321E+04	-12.800	0.000
1.000	1.000	148.2	0.000	0.000	BNA3(2)_335_337_L_0					
76 D	30.08	-1.5188E-04	220.0	150.4	300.0	153.0	UL-RL	1.7321E+04	-13.000	0.000
1.000	1.000	150.4	0.000	0.000	BNA3(2)_335_337_L_0					
77 D	34.90	-1.3898E-04	224.0	174.5	304.0	178.5	UL-RL	2.8668E+04	-13.200	0.000
1.000	1.000	174.5	0.000	0.000	BNA3(3)_336_338_L_0					
78 D	35.44	-1.2597E-04	228.0	177.2	308.0	180.8	UL-RL	2.8668E+04	-13.400	0.000
1.000	1.000	177.2	0.000	0.000	BNA3(3)_336_338_L_0					
79 D	35.98	-1.1290E-04	232.0	179.9	312.0	183.1	UL-RL	2.8668E+04	-13.600	0.000
1.000	1.000	179.9	0.000	0.000	BNA3(3)_336_338_L_0					

80 D	36.52	-9.9783E-05	236.0	182.6	316.0	185.5	UL-RL	2.8668E+04	-13.80	0.000
1.000	1.000	182.6	0.000	0.000	BNA3(3)_336_338_L_0					
81 D	37.06	-8.6656E-05	240.0	185.3	320.0	187.8	UL-RL	2.8668E+04	-14.00	0.000
1.000	1.000	185.3	0.000	0.000	BNA3(3)_336_338_L_0					
82 D	37.60	-7.3530E-05	244.0	188.0	324.0	190.1	UL-RL	2.8668E+04	-14.20	0.000
1.000	1.000	188.0	0.000	0.000	BNA3(3)_336_338_L_0					
83 D	38.14	-6.0417E-05	248.0	190.7	328.0	192.4	UL-RL	2.8668E+04	-14.40	0.000
1.000	1.000	190.7	0.000	0.000	BNA3(3)_336_338_L_0					
84 D	38.68	-4.7322E-05	252.0	193.4	332.0	194.8	UL-RL	2.8668E+04	-14.60	0.000
1.000	1.000	193.4	0.000	0.000	BNA3(3)_336_338_L_0					
85 D	39.22	-3.4248E-05	256.0	196.1	336.0	197.1	UL-RL	2.8668E+04	-14.80	0.000
1.000	1.000	196.1	0.000	0.000	BNA3(3)_336_338_L_0					
86 D	39.76	-2.1196E-05	260.0	198.8	340.0	199.4	UL-RL	2.8668E+04	-15.00	0.000
1.000	1.000	198.8	0.000	0.000	BNA3(3)_336_338_L_0					
87 D	40.30	-8.1607E-06	264.0	201.5	344.0	201.8	UL-RL	2.8668E+04	-15.20	0.000
1.000	1.000	201.5	0.000	0.000	BNA3(3)_336_338_L_0					
88 D	40.81	4.8602E-06	268.0	204.1	348.0	204.3	UL-RL	2.8668E+04	-15.40	0.000
1.000	1.000	204.1	0.000	0.000	BNA3(3)_336_338_L_0					
89 D	41.33	1.7872E-05	272.0	206.6	352.0	206.8	UL-RL	2.8668E+04	-15.60	0.000
1.000	1.000	206.6	0.000	0.000	BNA3(3)_336_338_L_0					
90 D	41.84	3.0878E-05	276.0	209.2	356.0	209.4	UL-RL	2.8668E+04	-15.80	0.000
1.000	1.000	209.2	0.000	0.000	BNA3(3)_336_338_L_0					
91 D	21.18	4.3884E-05	280.0	211.8	360.0	211.9	UL-RL	2.8668E+04	-16.00	0.000
1.000	1.000	211.8	0.000	0.000	BNA3(3)_336_338_L_0					

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|                PARATIE PLUS 2014 NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Sept23, 2015*                |
|                                                                                                                                            |
|                NewProject.BaseDesignSection_25.Nominal_60                                                                              |
|                Exe Time :29 June 2020    20:30:03                                                                                          |
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New Project

STRESS RESULTS FOR GROUP NO. 3

WallElement_30 :
ELEMENT TYPE 2 NO.OF ELEMENTS. IN THIS GROUP 90
CURRENT TIME IS 2.0000

WALL2D ELEMENT

EL	TA	TB	MA	MB
1	-1.20849E-10	1.20849E-10	-1.29603E-11	-1.82354E-10
2	0.48800	-0.48800	-3.11076E-11	9.76000E-02
3	1.4640	-1.4640	-9.76000E-02	0.39040
4	2.9280	-2.9280	-0.39040	0.97600
5	4.8800	-4.8800	-0.97600	1.9520
6	7.3200	-7.3200	-1.9520	3.4160
7	10.248	-10.248	-3.4160	5.4656
8	13.664	-13.664	-5.4656	8.1984
9	17.568	-17.568	-8.1984	11.712
10	21.960	-21.960	-11.712	16.104
11	26.840	-26.840	-16.104	21.472
12	32.209	-32.209	-21.472	27.914
13	38.065	-38.065	-27.914	35.527
14	44.409	-44.409	-35.527	44.409
15	51.242	-51.242	-44.409	54.657
16	58.562	-58.562	-54.657	66.370
17	66.371	-66.371	-66.370	79.644
18	74.668	-74.668	-79.644	94.577
19	83.452	-83.452	-94.577	111.27
20	92.726	-92.726	-111.27	129.81
21	95.406	-95.406	-129.81	148.89
22	94.923	-94.923	-148.89	167.88
23	91.276	-91.276	-167.88	186.13
24	84.466	-84.466	-186.13	203.03
25	74.491	-74.491	-203.03	217.93
26	64.591	-64.591	-217.93	230.84
27	54.991	-54.991	-230.84	241.84
28	45.675	-45.675	-241.84	250.98
29	36.628	-36.628	-250.98	258.30
30	27.832	-27.832	-258.30	263.87
31	19.270	-19.270	-263.87	267.72
32	10.925	-10.925	-267.72	269.91
33	2.7787	-2.7787	-269.91	270.46
34	-5.1873	5.1873	-270.46	269.43
35	-12.991	12.991	-269.43	266.83
36	-20.011	20.011	-266.83	262.83
37	-26.118	26.118	-262.83	257.60
38	-31.372	31.372	-257.60	251.33
39	-35.831	35.831	-251.33	244.16
40	-39.553	39.553	-244.16	236.25
41	-42.593	42.593	-236.25	227.73
42	-45.006	45.006	-227.73	218.73
43	-46.844	46.844	-218.73	209.36
44	-48.157	48.157	-209.36	199.73
45	-48.992	48.992	-199.73	189.93
46	-49.452	49.452	-189.93	180.04
47	-49.604	49.604	-180.04	170.12
48	-49.415	49.415	-170.12	160.24
49	-48.924	48.924	-160.24	150.45
50	-48.165	48.165	-150.45	140.82
51	-47.172	47.172	-140.82	131.39
52	-45.975	45.975	-131.39	122.19
53	-44.603	44.603	-122.19	113.27
54	-43.084	43.084	-113.27	104.65
55	-41.446	41.446	-104.65	96.365
56	-39.719	39.719	-96.365	88.421
57	-37.923	37.923	-88.421	80.836
58	-36.078	36.078	-80.836	73.621
59	-34.199	34.199	-73.621	66.781
60	-32.303	32.303	-66.781	60.320
61	-30.403	30.403	-60.320	54.240
62	-28.512	28.512	-54.240	48.537
63	-26.641	26.641	-48.537	43.209
64	-24.800	24.800	-43.209	38.249
65	-22.998	22.998	-38.249	33.650
66	-21.243	21.243	-33.650	29.401
67	-19.543	19.543	-29.401	25.493
68	-17.904	17.904	-25.493	21.912
69	-16.330	16.330	-21.912	18.646
70	-14.826	14.826	-18.646	15.681

71	-13.397	13.397	-15.681	13.001
72	-12.045	12.045	-13.001	10.592
73	-10.773	10.773	-10.592	8.4377
74	-9.5840	9.5840	-8.4377	6.5209
75	-8.4791	8.4791	-6.5209	4.8250
76	-7.4597	7.4597	-4.8250	3.3331
77	-6.0493	6.0493	-3.3331	2.1232
78	-4.7709	4.7709	-2.1232	1.1691
79	-3.6252	3.6252	-1.1691	0.44402
80	-2.6126	2.6126	-0.44402	-7.84892E-02
81	-1.7332	1.7332	7.84892E-02	-0.42512
82	-0.98695	0.98695	0.42512	-0.62251
83	-0.37382	0.37382	0.62251	-0.69727
84	0.10642	-0.10642	0.69727	-0.67599
85	0.45399	-0.45399	0.67599	-0.58519
86	0.66909	-0.66909	0.58519	-0.45137
87	0.75640	-0.75640	0.45137	-0.30009
88	0.72305	-0.72305	0.30009	-0.15548
89	0.54753	-0.54753	0.15548	-4.59785E-02
90	0.22988	-0.22988	4.59785E-02	-1.52767E-13

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|          PARATIE PLUS 2014 NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Sept23, 2015*          |
|                                                                                                                                            |
|                                                                                          NewProject.BaseDesignSection_25.Nominal_60          |
|                                                                                          Exe Time :29 June 2020    20:30:03                |
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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 . 4

Tieback_341 :
ELEMENT TYPE 6 NO.OF ELEMENTS. IN THIS GROUP 1
C U R R E N T T I M E I S 2.0000

POST-TENSION 2D-BOUNDARY ELEMENT

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      EL   FORCE      d0      EDISPL   pl. eps      K      -ve limit   +ve limit
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***** NO ONE ELEMENT ACTIVE AT CURRENT STEP *****


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|                PARATIE PLUS 2014 NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Sept23, 2015*                |
|                                                                                                                    |
|                NewProject.BaseDesignSection_25.Nominal_60                                                         |
|                Exe Time :29 June 2020      20:30:03                                                                |
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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 . 5

Tieback_342 :
ELEMENT TYPE 6 NO.OF ELEMENTS. IN THIS GROUP 1
C U R R E N T T I M E I S 2.0000

POST-TENSION 2D-BOUNDARY ELEMENT

EL	FORCE	d0	EDISPL	pl. eps	K	-ve limit	+ve limit
----	-------	----	--------	---------	---	-----------	-----------

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

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ITER    0  RNORM = 0.000      RMNORM= 0.000
         RINORM=0.3715E+06 RIMNOR=0.3344E+07
         RENORM= 2726.      REMNOR=0.1092E-18 RATIO =0.8566E-01 TOLER =0.1000E-03 NOT CONVERGED
         RFMAX = 95.41      RMMAX = 270.5
         RTSMAL=0.1000E-03 RMSMAL=0.1000E-02
         RDT =0.3715E+06 RDR =0.3344E+07
         RATIOT=0.8566E-01 RATIO= 0.000
         MAX UN=0.2639E-02 IEQ= 93 NODE      47 DOF    1 Y-DISPL.F
         MIN UN=-52.21      IEQ= 31 NODE      16 DOF    1 Y-DISPL.F
         NO. OF CONTACT CONSTRAINT VIOLATIONS    0

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ITER    2  RNORM = 0.000      RMNORM= 0.000
         RINORM=0.3715E+06 RIMNOR=0.3344E+07
         RENORM=0.5049      REMNOR=0.4946E-19 RATIO =0.1166E-02 TOLER =0.1000E-03 NOT CONVERGED
         RFMAX = 95.41      RMMAX = 270.5
         RTSMAL=0.1000E-03 RMSMAL=0.1000E-02
         RDT =0.3715E+06 RDR =0.3344E+07
         RATIOT=0.1166E-02 RATIO= 0.000
         MAX UN=0.1168E-08 IEQ= 27 NODE      14 DOF    1 Y-DISPL.F
         MIN UN=-.4220      IEQ= 3 NODE      2 DOF    1 Y-DISPL.F
         NO. OF CONTACT CONSTRAINT VIOLATIONS    0

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ITER    3  RNORM = 0.000      RMNORM= 0.000
         RINORM=0.3715E+06 RIMNOR=0.3344E+07
         RENORM=0.4644E-03 REMNOR=0.1299E-18 RATIO =0.3536E-04 TOLER =0.1000E-03 CONVERGED !
         RFMAX = 95.41      RMMAX = 270.5
         RTSMAL=0.1000E-03 RMSMAL=0.1000E-02
         RDT =0.3715E+06 RDR =0.3344E+07
         RATIOT=0.3536E-04 RATIO= 0.000
         MAX UN=0.2842E-02 IEQ= 89 NODE      45 DOF    1 Y-DISPL.F
         MIN UN=-.2136E-01 IEQ= 17 NODE      9 DOF    1 Y-DISPL.F
         NO. OF CONTACT CONSTRAINT VIOLATIONS    0

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|                PARATIE PLUS 2014 NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Sept23, 2015*                |
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|                                                                                                                                            |
|                NewProject.BaseDesignSection_25.Nominal_60                                                                              |
|                Exe Time :29 June 2020      20:30:03                                                                              |
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New Project
SOLUTION REACHED USING 3 ITERATIONS ON 40

PRINT OUT FOR TIME STEP 3 (AT TIME 3.000)

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

	Y-DISPL.F (02)	X-ROT. F (04)	(
1	7.5840509E-03	-1.1144100E-03	
2	7.3611689E-03	-1.1144100E-03	
3	7.1382883E-03	-1.1143886E-03	
4	6.9154183E-03	-1.1142948E-03	
5	6.6925797E-03	-1.1140620E-03	
6	6.4698081E-03	-1.1136074E-03	
7	6.2471579E-03	-1.1128323E-03	
8	6.0247042E-03	-1.1116221E-03	
9	5.8025468E-03	-1.1098464E-03	
10	5.5808132E-03	-1.1073584E-03	
11	5.3596617E-03	-1.1039960E-03	
12	5.1392847E-03	-1.0995832E-03	
13	4.9199111E-03	-1.0939299E-03	
14	4.7018091E-03	-1.0868323E-03	
15	4.4852891E-03	-1.0780723E-03	
16	4.2707066E-03	-1.0674183E-03	
17	4.0584105E-03	-1.0554354E-03	
18	3.8485843E-03	-1.0426751E-03	
19	3.6414105E-03	-1.0288637E-03	
20	3.4371280E-03	-1.0137140E-03	
21	3.2360342E-03	-9.9692476E-04	
22	3.0384851E-03	-9.7822958E-04	
23	2.8448808E-03	-9.5745794E-04	
24	2.6556446E-03	-9.3454706E-04	
25	2.4712016E-03	-9.0954175E-04	
26	2.2919574E-03	-8.8259414E-04	
27	2.1182787E-03	-8.5391297E-04	
28	1.9504928E-03	-8.2371003E-04	
29	1.7888821E-03	-7.9219573E-04	
30	1.6336879E-03	-7.5957983E-04	
31	1.4851104E-03	-7.2607154E-04	
32	1.3433056E-03	-6.9187911E-04	
33	1.2083905E-03	-6.5721090E-04	
34	1.0804391E-03	-6.2227497E-04	
35	9.5948445E-04	-5.8727933E-04	
36	8.4551750E-04	-5.5243222E-04	
37	7.3848841E-04	-5.1793230E-04	
38	6.3830963E-04	-4.8395669E-04	
39	5.4486096E-04	-4.5065962E-04	
40	4.5799220E-04	-4.1817330E-04	
41	3.7753008E-04	-3.8661038E-04	
42	3.0328024E-04	-3.5606472E-04	
43	2.3503127E-04	-3.2661297E-04	
44	1.7255837E-04	-2.9831603E-04	
45	1.1562513E-04	-2.7121980E-04	
46	6.3988198E-05	-2.4535731E-04	
47	1.7398520E-05	-2.2075004E-04	
48	-2.4396317E-05	-1.9741025E-04	
49	-6.1650343E-05	-1.7534189E-04	
50	-9.4617389E-05	-1.5454069E-04	
51	-1.2355011E-04	-1.3499439E-04	
52	-1.4869755E-04	-1.1668418E-04	
53	-1.7030453E-04	-9.9585181E-05	
54	-1.8861036E-04	-8.3667261E-05	
55	-2.0384780E-04	-6.8895884E-05	
56	-2.1624250E-04	-5.5232526E-05	
57	-2.2601192E-04	-4.2635929E-05	
58	-2.3336509E-04	-3.1062484E-05	
59	-2.3850210E-04	-2.0466812E-05	
60	-2.4161387E-04	-1.0802277E-05	
61	-2.4288190E-04	-2.0212157E-06	
62	-2.4247803E-04	5.9245652E-06	
63	-2.4056469E-04	1.3082525E-05	
64	-2.3729436E-04	1.9501602E-05	
65	-2.3281017E-04	2.5228963E-05	
66	-2.2724577E-04	3.0311422E-05	
67	-2.2072554E-04	3.4794830E-05	
68	-2.1336479E-04	3.8723874E-05	
69	-2.0527006E-04	4.2141887E-05	
70	-1.9653932E-04	4.5090693E-05	
71	-1.8726238E-04	4.7610468E-05	
72	-1.7752117E-04	4.9739616E-05	
73	-1.6739014E-04	5.1514666E-05	
74	-1.5693661E-04	5.2970186E-05	

75	-1.4622120E-04	5.4138710E-05
76	-1.3529823E-04	5.5050674E-05
77	-1.2421615E-04	5.5734370E-05
78	-1.1301753E-04	5.6222374E-05
79	-1.0173783E-04	5.6550946E-05
80	-9.0405587E-05	5.6752948E-05
81	-7.9043123E-05	5.6857824E-05
82	-6.7667199E-05	5.6891588E-05
83	-5.6289723E-05	5.6876813E-05
84	-4.4918434E-05	5.6832628E-05
85	-3.3557587E-05	5.6774721E-05
86	-2.2208645E-05	5.6715333E-05
87	-1.0870968E-05	5.6663230E-05
88	4.5748510E-07	5.6623694E-05
89	1.1779490E-05	5.6598866E-05
90	2.3097935E-05	5.6587589E-05
91	3.4415668E-05	5.6584959E-05

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|                PARATIE PLUS 2014 NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Sept23, 2015*                |
|                                                                                                                    |
|                NewProject.BaseDesignSection_25.Nominal_60                                                         |
|                Exe Time :29 June 2020      20:30:03                                                                |
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New Project

STRESS RESULTS FOR GROUP NO. 1

0_L :
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 91
CURRENT TIME IS 3.0000

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 LAYER	MAX-H-P	STATE	STIFFNESS	Z-LEVEL	PORE	E FAC-
1 D	0.000	-7.5841E-03	0.000	0.000	0.000	0.000	PASSIVE	0.000	2.000	0.000	
1.000	1.000	0.000	0.000	0.000	FRANA_334_8_L_0						
2 D	1.380	-7.3612E-03	4.000	6.902	4.000	6.902	V-C	3600.	1.800	0.000	
1.000	1.000	6.902	0.000	0.000	FRANA_334_8_L_0						
3 D	1.893	-7.1383E-03	8.000	9.467	8.000	9.467	V-C	3600.	1.600	0.000	
1.000	1.000	9.467	0.000	0.000	FRANA_334_8_L_0						
4 D	2.406	-6.9154E-03	12.00	12.03	12.00	12.03	V-C	3600.	1.400	0.000	
1.000	1.000	12.03	0.000	0.000	FRANA_334_8_L_0						
5 D	2.919	-6.6926E-03	16.00	14.60	16.00	14.60	V-C	3600.	1.200	0.000	
1.000	1.000	14.60	0.000	0.000	FRANA_334_8_L_0						
6 D	3.432	-6.4698E-03	20.00	17.16	20.00	17.16	V-C	3600.	1.000	0.000	
1.000	1.000	17.16	0.000	0.000	FRANA_334_8_L_0						
7 D	3.945	-6.2472E-03	24.00	19.72	24.00	19.72	V-C	3600.	0.8000	0.000	
1.000	1.000	19.72	0.000	0.000	FRANA_334_8_L_0						
8 D	4.457	-6.0247E-03	28.00	22.29	28.00	22.29	V-C	3600.	0.6000	0.000	
1.000	1.000	22.29	0.000	0.000	FRANA_334_8_L_0						
9 D	4.970	-5.8025E-03	32.00	24.85	32.00	24.85	V-C	3600.	0.4000	0.000	
1.000	1.000	24.85	0.000	0.000	FRANA_334_8_L_0						
10 D	5.441	-5.5808E-03	36.00	27.21	36.00	27.76	UL-RL	5760.	0.2000	0.000	
1.000	1.000	27.21	0.000	0.000	FRANA_334_8_L_0						
11 D	5.891	-5.3597E-03	40.00	29.46	40.00	30.84	UL-RL	5760.	-1.4901E-07	0.000	
1.000	1.000	29.46	0.000	0.000	FRANA_334_8_L_0						
12 D	6.340	-5.1393E-03	44.00	31.70	44.00	33.92	UL-RL	5760.	-0.2000	0.000	
1.000	1.000	31.70	0.000	0.000	FRANA_334_8_L_0						
13 D	6.790	-4.9199E-03	48.00	33.95	48.00	37.01	UL-RL	5760.	-0.4000	0.000	
1.000	1.000	33.95	0.000	0.000	FRANA_334_8_L_0						
14 D	7.238	-4.7018E-03	52.00	36.19	52.00	40.09	UL-RL	5760.	-0.6000	0.000	
1.000	1.000	36.19	0.000	0.000	FRANA_334_8_L_0						
15 D	7.686	-4.4853E-03	56.00	38.43	56.00	43.17	UL-RL	5760.	-0.8000	0.000	
1.000	1.000	38.43	0.000	0.000	FRANA_334_8_L_0						
16 D	8.134	-4.2707E-03	60.00	40.67	60.00	46.25	UL-RL	5760.	-1.000	0.000	
1.000	1.000	40.67	0.000	0.000	FRANA_334_8_L_0						
17 D	8.580	-4.0584E-03	64.01	42.90	64.01	49.34	UL-RL	5760.	-1.200	0.000	
1.000	1.000	42.90	0.000	0.000	FRANA_334_8_L_0						
18 D	9.027	-3.8486E-03	68.01	45.13	68.01	52.42	UL-RL	5760.	-1.400	0.000	
1.000	1.000	45.13	0.000	0.000	FRANA_334_8_L_0						
19 D	9.473	-3.6414E-03	72.01	47.36	72.01	55.50	UL-RL	5760.	-1.600	0.000	
1.000	1.000	47.36	0.000	0.000	FRANA_334_8_L_0						
20 D	9.919	-3.4371E-03	76.01	49.60	76.01	58.58	UL-RL	5760.	-1.800	0.000	
1.000	1.000	49.60	0.000	0.000	FRANA_334_8_L_0						
21 D	7.479	-3.2360E-03	80.01	37.39	80.01	41.02	UL-RL	2.5981E+04	-2.000	0.000	
1.000	1.000	37.39	0.000	0.000	BNA3(2)_335_337_L_0						
22 D	7.560	-3.0385E-03	84.01	37.80	84.01	43.07	UL-RL	2.5981E+04	-2.200	0.000	
1.000	1.000	37.80	0.000	0.000	BNA3(2)_335_337_L_0						
23 D	7.645	-2.8449E-03	88.01	38.23	88.01	45.12	UL-RL	2.5981E+04	-2.400	0.000	
1.000	1.000	38.23	0.000	0.000	BNA3(2)_335_337_L_0						
24 D	7.735	-2.6556E-03	92.02	38.67	92.02	47.17	UL-RL	2.5981E+04	-2.600	0.000	
1.000	1.000	38.67	0.000	0.000	BNA3(2)_335_337_L_0						
25 D	7.829	-2.4712E-03	96.02	39.15	96.02	49.22	UL-RL	2.5981E+04	-2.800	0.000	
1.000	1.000	39.15	0.000	0.000	BNA3(2)_335_337_L_0						
26 D	7.929	-2.2920E-03	100.0	39.65	100.0	51.26	UL-RL	2.5981E+04	-3.000	0.000	
1.000	1.000	39.65	0.000	0.000	BNA3(2)_335_337_L_0						
27 D	8.036	-2.1183E-03	104.0	40.18	104.0	53.31	UL-RL	2.5981E+04	-3.200	0.000	
1.000	1.000	40.18	0.000	0.000	BNA3(2)_335_337_L_0						
28 D	8.149	-1.9505E-03	108.0	40.74	108.0	55.36	UL-RL	2.5981E+04	-3.400	0.000	
1.000	1.000	40.74	0.000	0.000	BNA3(2)_335_337_L_0						
29 D	8.269	-1.7889E-03	112.0	41.34	112.0	57.41	UL-RL	2.5981E+04	-3.600	0.000	
1.000	1.000	41.34	0.000	0.000	BNA3(2)_335_337_L_0						
30 D	8.396	-1.6337E-03	116.0	41.98	116.0	59.45	UL-RL	2.5981E+04	-3.800	0.000	
1.000	1.000	41.98	0.000	0.000	BNA3(2)_335_337_L_0						
31 D	8.530	-1.4851E-03	120.0	42.65	120.0	61.50	UL-RL	2.5981E+04	-4.000	0.000	
1.000	1.000	42.65	0.000	0.000	BNA3(2)_335_337_L_0						
32 D	8.672	-1.3433E-03	124.0	43.36	124.0	63.54	UL-RL	2.5981E+04	-4.200	0.000	
1.000	1.000	43.36	0.000	0.000	BNA3(2)_335_337_L_0						
33 D	8.821	-1.2084E-03	128.0	44.11	128.0	65.59	UL-RL	2.5981E+04	-4.400	0.000	
1.000	1.000	44.11	0.000	0.000	BNA3(2)_335_337_L_0						

34 D	8.978	-1.0804E-03	132.0	44.89	132.0	67.63	UL-RL	2.5981E+04	-4.600	0.000
1.000	1.000	44.89	0.000	0.000	BNA3(2)_335_337_L_0					
35 D	9.142	-9.5948E-04	136.0	45.71	136.0	69.68	UL-RL	2.5981E+04	-4.800	0.000
1.000	1.000	45.71	0.000	0.000	BNA3(2)_335_337_L_0					
36 D	9.951	-8.4552E-04	140.1	49.75	140.1	71.72	UL-RL	2.5981E+04	-5.000	0.000
1.000	1.000	49.75	0.000	0.000	BNA3(2)_335_337_L_0					
37 D	10.92	-7.3849E-04	144.1	54.58	144.1	73.76	UL-RL	2.5981E+04	-5.200	0.000
1.000	1.000	54.58	0.000	0.000	BNA3(2)_335_337_L_0					
38 D	11.84	-6.3831E-04	148.1	59.22	148.1	75.81	UL-RL	2.5981E+04	-5.400	0.000
1.000	1.000	59.22	0.000	0.000	BNA3(2)_335_337_L_0					
39 D	12.74	-5.4486E-04	152.1	63.69	152.1	77.85	UL-RL	2.5981E+04	-5.600	0.000
1.000	1.000	63.69	0.000	0.000	BNA3(2)_335_337_L_0					
40 D	13.60	-4.5799E-04	156.1	67.99	156.1	79.89	UL-RL	2.5981E+04	-5.800	0.000
1.000	1.000	67.99	0.000	0.000	BNA3(2)_335_337_L_0					
41 D	14.42	-3.7753E-04	160.1	72.12	160.1	81.93	UL-RL	2.5981E+04	-6.000	0.000
1.000	1.000	72.12	0.000	0.000	BNA3(2)_335_337_L_0					
42 D	15.22	-3.0328E-04	164.1	76.09	164.1	83.97	UL-RL	2.5981E+04	-6.200	0.000
1.000	1.000	76.09	0.000	0.000	BNA3(2)_335_337_L_0					
43 D	15.98	-2.3503E-04	168.1	79.91	168.1	86.01	UL-RL	2.5981E+04	-6.400	0.000
1.000	1.000	79.91	0.000	0.000	BNA3(2)_335_337_L_0					
44 D	16.71	-1.7256E-04	172.1	83.57	172.1	88.05	UL-RL	2.5981E+04	-6.600	0.000
1.000	1.000	83.57	0.000	0.000	BNA3(2)_335_337_L_0					
45 D	17.42	-1.1563E-04	176.1	87.09	176.1	90.09	UL-RL	2.5981E+04	-6.800	0.000
1.000	1.000	87.09	0.000	0.000	BNA3(2)_335_337_L_0					
46 D	18.04	-6.3988E-05	180.1	90.19	180.1	92.61	UL-RL	2.5981E+04	-7.000	0.000
1.000	1.000	90.19	0.000	0.000	BNA3(2)_335_337_L_0					
47 D	18.61	-1.7399E-05	184.1	93.05	184.1	95.29	UL-RL	2.5981E+04	-7.200	0.000
1.000	1.000	93.05	0.000	0.000	BNA3(2)_335_337_L_0					
48 D	19.17	2.4396E-05	188.1	95.83	188.1	97.90	UL-RL	2.5981E+04	-7.400	0.000
1.000	1.000	95.83	0.000	0.000	BNA3(2)_335_337_L_0					
49 D	19.71	6.1650E-05	192.1	98.54	192.1	100.4	UL-RL	2.5981E+04	-7.600	0.000
1.000	1.000	98.54	0.000	0.000	BNA3(2)_335_337_L_0					
50 D	20.23	9.4617E-05	196.1	101.2	196.1	102.9	UL-RL	2.5981E+04	-7.800	0.000
1.000	1.000	101.2	0.000	0.000	BNA3(2)_335_337_L_0					
51 D	20.75	1.2355E-04	200.1	103.7	200.1	105.3	UL-RL	2.5981E+04	-8.000	0.000
1.000	1.000	103.7	0.000	0.000	BNA3(2)_335_337_L_0					
52 D	21.25	1.4870E-04	204.1	106.2	204.1	107.7	UL-RL	2.5981E+04	-8.200	0.000
1.000	1.000	106.2	0.000	0.000	BNA3(2)_335_337_L_0					
53 D	21.74	1.7030E-04	208.2	108.7	208.2	110.0	UL-RL	2.5981E+04	-8.400	0.000
1.000	1.000	108.7	0.000	0.000	BNA3(2)_335_337_L_0					
54 D	22.21	1.8861E-04	212.2	111.1	212.2	112.2	UL-RL	2.5981E+04	-8.600	0.000
1.000	1.000	111.1	0.000	0.000	BNA3(2)_335_337_L_0					
55 D	22.68	2.0385E-04	216.2	113.4	216.2	114.4	UL-RL	2.5981E+04	-8.800	0.000
1.000	1.000	113.4	0.000	0.000	BNA3(2)_335_337_L_0					
56 D	23.12	2.1624E-04	220.2	115.6	220.2	116.7	UL-RL	2.5981E+04	-9.000	0.000
1.000	1.000	115.6	0.000	0.000	BNA3(2)_335_337_L_0					
57 D	23.56	2.2601E-04	224.2	117.8	224.2	118.9	UL-RL	2.5981E+04	-9.200	0.000
1.000	1.000	117.8	0.000	0.000	BNA3(2)_335_337_L_0					
58 D	23.99	2.3337E-04	228.2	119.9	228.2	121.0	UL-RL	2.5981E+04	-9.400	0.000
1.000	1.000	119.9	0.000	0.000	BNA3(2)_335_337_L_0					
59 D	24.41	2.3850E-04	232.2	122.1	232.2	123.1	UL-RL	2.5981E+04	-9.600	0.000
1.000	1.000	122.1	0.000	0.000	BNA3(2)_335_337_L_0					
60 D	24.83	2.4161E-04	236.2	124.1	236.2	125.2	UL-RL	2.5981E+04	-9.800	0.000
1.000	1.000	124.1	0.000	0.000	BNA3(2)_335_337_L_0					
61 D	25.24	2.4288E-04	240.2	126.2	240.2	127.2	UL-RL	2.5981E+04	-10.000	0.000
1.000	1.000	126.2	0.000	0.000	BNA3(2)_335_337_L_0					
62 D	25.65	2.4248E-04	244.2	128.2	244.2	129.3	UL-RL	2.5981E+04	-10.200	0.000
1.000	1.000	128.2	0.000	0.000	BNA3(2)_335_337_L_0					
63 D	26.05	2.4056E-04	248.2	130.2	248.2	131.2	UL-RL	2.5981E+04	-10.400	0.000
1.000	1.000	130.2	0.000	0.000	BNA3(2)_335_337_L_0					
64 D	26.45	2.3729E-04	252.3	132.2	252.3	133.2	UL-RL	2.5981E+04	-10.600	0.000
1.000	1.000	132.2	0.000	0.000	BNA3(2)_335_337_L_0					
65 D	26.84	2.3281E-04	256.3	134.2	256.3	135.1	UL-RL	2.5981E+04	-10.800	0.000
1.000	1.000	134.2	0.000	0.000	BNA3(2)_335_337_L_0					
66 D	27.23	2.2725E-04	260.3	136.2	260.3	137.0	UL-RL	2.5981E+04	-11.000	0.000
1.000	1.000	136.2	0.000	0.000	BNA3(2)_335_337_L_0					
67 D	27.62	2.2073E-04	264.3	138.1	264.3	138.9	UL-RL	2.5981E+04	-11.200	0.000
1.000	1.000	138.1	0.000	0.000	BNA3(2)_335_337_L_0					
68 D	28.00	2.1336E-04	268.3	140.0	268.3	140.8	UL-RL	2.5981E+04	-11.400	0.000
1.000	1.000	140.0	0.000	0.000	BNA3(2)_335_337_L_0					
69 D	28.38	2.0527E-04	272.3	141.9	272.3	142.7	UL-RL	2.5981E+04	-11.600	0.000
1.000	1.000	141.9	0.000	0.000	BNA3(2)_335_337_L_0					
70 D	28.76	1.9654E-04	276.3	143.8	276.3	144.5	UL-RL	2.5981E+04	-11.800	0.000
1.000	1.000	143.8	0.000	0.000	BNA3(2)_335_337_L_0					
71 D	29.14	1.8726E-04	280.3	145.7	280.3	146.4	UL-RL	2.5981E+04	-12.000	0.000
1.000	1.000	145.7	0.000	0.000	BNA3(2)_335_337_L_0					
72 D	29.52	1.7752E-04	284.4	147.6	284.4	148.2	UL-RL	2.5981E+04	-12.200	0.000
1.000	1.000	147.6	0.000	0.000	BNA3(2)_335_337_L_0					
73 D	29.90	1.6739E-04	288.4	149.5	288.4	150.1	UL-RL	2.5981E+04	-12.400	0.000
1.000	1.000	149.5	0.000	0.000	BNA3(2)_335_337_L_0					
74 D	30.27	1.5694E-04	292.4	151.3	292.4	151.9	UL-RL	2.5981E+04	-12.600	0.000
1.000	1.000	151.3	0.000	0.000	BNA3(2)_335_337_L_0					
75 D	30.64	1.4622E-04	296.4	153.2	296.4	153.7	UL-RL	2.5981E+04	-12.800	0.000
1.000	1.000	153.2	0.000	0.000	BNA3(2)_335_337_L_0					
76 D	31.02	1.3530E-04	300.4	155.1	300.4	155.5	UL-RL	2.5981E+04	-13.000	0.000
1.000	1.000	155.1	0.000	0.000	BNA3(2)_335_337_L_0					
77 D	36.20	1.2422E-04	304.4	181.0	304.4	181.5	UL-RL	3.5318E+04	-13.200	0.000
1.000	1.000	181.0	0.000	0.000	BNA3(3)_336_338_L_0					
78 D	36.62	1.1302E-04	308.4	183.1	308.4	183.6	UL-RL	3.5318E+04	-13.400	0.000
1.000	1.000	183.1	0.000	0.000	BNA3(3)_336_338_L_0					
79 D	37.05	1.0174E-04	312.4	185.2	312.4	185.6	UL-RL	3.5318E+04	-13.600	0.000
1.000	1.000	185.2	0.000	0.000	BNA3(3)_336_338_L_0					

80 D	37.47	9.0406E-05	316.5	187.3	316.5	187.7	UL-RL	3.5318E+04	-13.80	0.000
1.000	1.000	187.3	0.000	0.000	BNA3(3)_336_338_L_0					
81 D	37.89	7.9043E-05	320.5	189.4	320.5	189.7	UL-RL	3.5318E+04	-14.00	0.000
1.000	1.000	189.4	0.000	0.000	BNA3(3)_336_338_L_0					
82 D	38.31	6.7667E-05	324.5	191.5	324.5	191.7	UL-RL	3.5318E+04	-14.20	0.000
1.000	1.000	191.5	0.000	0.000	BNA3(3)_336_338_L_0					
83 D	38.72	5.6290E-05	328.5	193.6	328.5	193.8	UL-RL	3.5318E+04	-14.40	0.000
1.000	1.000	193.6	0.000	0.000	BNA3(3)_336_338_L_0					
84 D	39.14	4.4918E-05	332.5	195.7	332.5	195.8	UL-RL	3.5318E+04	-14.60	0.000
1.000	1.000	195.7	0.000	0.000	BNA3(3)_336_338_L_0					
85 D	39.56	3.3558E-05	336.5	197.8	336.5	197.8	UL-RL	3.5318E+04	-14.80	0.000
1.000	1.000	197.8	0.000	0.000	BNA3(3)_336_338_L_0					
86 D	39.98	2.2209E-05	340.5	199.9	340.5	199.9	V-C	2.2074E+04	-15.00	0.000
1.000	1.000	199.9	0.000	0.000	BNA3(3)_336_338_L_0					
87 D	40.40	1.0871E-05	344.6	202.0	344.6	202.0	V-C	2.2074E+04	-15.20	0.000
1.000	1.000	202.0	0.000	0.000	BNA3(3)_336_338_L_0					
88 D	40.81	-4.5749E-07	348.6	204.0	348.6	204.1	UL-RL	3.5318E+04	-15.40	0.000
1.000	1.000	204.0	0.000	0.000	BNA3(3)_336_338_L_0					
89 D	41.19	-1.1779E-05	352.6	206.0	352.6	206.4	UL-RL	3.5318E+04	-15.60	0.000
1.000	1.000	206.0	0.000	0.000	BNA3(3)_336_338_L_0					
90 D	41.58	-2.3098E-05	356.6	207.9	356.6	208.7	UL-RL	3.5318E+04	-15.80	0.000
1.000	1.000	207.9	0.000	0.000	BNA3(3)_336_338_L_0					
91 D	20.98	-3.4416E-05	360.6	209.8	360.6	211.0	UL-RL	3.5318E+04	-16.00	0.000
1.000	1.000	209.8	0.000	0.000	BNA3(3)_336_338_L_0					

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|                PARATIE PLUS 2014 NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Sept23, 2015*                |
|                                                                                                                    |
|                NewProject.BaseDesignSection_25.Nominal_60                                                         |
|                Exe Time :29 June 2020      20:30:03                                                                |
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New Project

STRESS RESULTS FOR GROUP NO. 2

O_R :
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 91
CURRENT TIME IS 3.0000

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 LAYER	MAX-H-P	STATE	STIFFNESS	Z-LEVEL	PORE	E FAC-
1	0.000	--	--	--	--	--	REMOVED	--	2.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
2	0.000	--	--	--	--	--	REMOVED	--	1.800	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
3	0.000	--	--	--	--	--	REMOVED	--	1.600	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
4	0.000	--	--	--	--	--	REMOVED	--	1.400	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
5	0.000	--	--	--	--	--	REMOVED	--	1.200	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
6	0.000	--	--	--	--	--	REMOVED	--	1.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
7	0.000	--	--	--	--	--	REMOVED	--	0.8000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
8	0.000	--	--	--	--	--	REMOVED	--	0.6000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
9	0.000	--	--	--	--	--	REMOVED	--	0.4000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
10	0.000	--	--	--	--	--	REMOVED	--	0.2000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
11	0.000	--	--	--	--	--	REMOVED	--	-1.4901E-07	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
12	0.000	--	--	--	--	--	REMOVED	--	-0.2000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
13	0.000	--	--	--	--	--	REMOVED	--	-0.4000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
14	0.000	--	--	--	--	--	REMOVED	--	-0.6000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
15	0.000	--	--	--	--	--	REMOVED	--	-0.8000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
16	0.000	--	--	--	--	--	REMOVED	--	-1.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
17	0.000	--	--	--	--	--	REMOVED	--	-1.200	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
18	0.000	--	--	--	--	--	REMOVED	--	-1.400	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
19	0.000	--	--	--	--	--	REMOVED	--	-1.600	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
20	0.000	--	--	--	--	--	REMOVED	--	-1.800	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
21 D	0.2527	3.2360E-03	0.000	1.263	80.00	41.02	UL-RL	1.7321E+04	-2.000	0.000	
1.000	1.000	1.263	0.000	0.000	BNA3(2)_335_337_L_0						
22 D	3.806	3.0385E-03	4.000	19.03	84.00	43.07	UL-RL	1.7321E+04	-2.200	0.000	
1.000	1.000	19.03	0.000	0.000	BNA3(2)_335_337_L_0						
23 D	7.358	2.8449E-03	8.000	36.79	88.00	45.12	UL-RL	1.7321E+04	-2.400	0.000	
1.000	1.000	36.79	0.000	0.000	BNA3(2)_335_337_L_0						
24 D	10.91	2.6556E-03	12.00	54.53	92.00	61.81	UL-RL	1.7321E+04	-2.600	0.000	
1.000	1.000	54.53	0.000	0.000	BNA3(2)_335_337_L_0						
25 D	14.45	2.4712E-03	16.00	72.26	96.00	78.96	UL-RL	1.7321E+04	-2.800	0.000	
1.000	1.000	72.26	0.000	0.000	BNA3(2)_335_337_L_0						
26 D	14.75	2.2920E-03	20.00	73.77	100.0	79.92	UL-RL	1.7321E+04	-3.000	0.000	
1.000	1.000	73.77	0.000	0.000	BNA3(2)_335_337_L_0						
27 D	14.83	2.1183E-03	24.00	74.14	104.0	79.75	UL-RL	1.7321E+04	-3.200	0.000	
1.000	1.000	74.14	0.000	0.000	BNA3(2)_335_337_L_0						
28 D	14.91	1.9505E-03	28.00	74.56	108.0	79.66	UL-RL	1.7321E+04	-3.400	0.000	
1.000	1.000	74.56	0.000	0.000	BNA3(2)_335_337_L_0						
29 D	15.01	1.7889E-03	32.00	75.04	112.0	79.66	UL-RL	1.7321E+04	-3.600	0.000	
1.000	1.000	75.04	0.000	0.000	BNA3(2)_335_337_L_0						
30 D	15.12	1.6337E-03	36.00	75.58	116.0	79.73	UL-RL	1.7321E+04	-3.800	0.000	
1.000	1.000	75.58	0.000	0.000	BNA3(2)_335_337_L_0						
31 D	15.24	1.4851E-03	40.00	76.18	120.0	79.89	UL-RL	1.7321E+04	-4.000	0.000	
1.000	1.000	76.18	0.000	0.000	BNA3(2)_335_337_L_0						
32 D	15.37	1.3433E-03	44.00	76.85	124.0	80.14	UL-RL	1.7321E+04	-4.200	0.000	
1.000	1.000	76.85	0.000	0.000	BNA3(2)_335_337_L_0						
33 D	15.52	1.2084E-03	48.00	77.58	128.0	80.48	UL-RL	1.7321E+04	-4.400	0.000	
1.000	1.000	77.58	0.000	0.000	BNA3(2)_335_337_L_0						

34 D	15.68	1.0804E-03	52.00	78.38	132.0	80.91	UL-RL	1.7321E+04	-4.600	0.000
1.000	1.000	78.38	0.000	0.000	BNA3(2)_335_337_L_0					
35 D	15.85	9.5948E-04	56.00	79.24	136.0	81.44	UL-RL	1.7321E+04	-4.800	0.000
1.000	1.000	79.24	0.000	0.000	BNA3(2)_335_337_L_0					
36 D	16.03	8.4552E-04	60.00	80.17	140.0	82.05	UL-RL	1.7321E+04	-5.000	0.000
1.000	1.000	80.17	0.000	0.000	BNA3(2)_335_337_L_0					
37 D	16.23	7.3849E-04	64.00	81.17	144.0	82.75	UL-RL	1.7321E+04	-5.200	0.000
1.000	1.000	81.17	0.000	0.000	BNA3(2)_335_337_L_0					
38 D	16.45	6.3831E-04	68.00	82.23	148.0	83.53	UL-RL	1.7321E+04	-5.400	0.000
1.000	1.000	82.23	0.000	0.000	BNA3(2)_335_337_L_0					
39 D	16.67	5.4486E-04	72.00	83.35	152.0	84.41	UL-RL	1.7321E+04	-5.600	0.000
1.000	1.000	83.35	0.000	0.000	BNA3(2)_335_337_L_0					
40 D	16.91	4.5799E-04	76.00	84.54	156.0	85.36	UL-RL	1.7321E+04	-5.800	0.000
1.000	1.000	84.54	0.000	0.000	BNA3(2)_335_337_L_0					
41 D	17.16	3.7753E-04	80.00	85.79	160.0	86.40	UL-RL	1.7321E+04	-6.000	0.000
1.000	1.000	85.79	0.000	0.000	BNA3(2)_335_337_L_0					
42 D	17.42	3.0328E-04	84.00	87.10	164.0	87.52	UL-RL	1.7321E+04	-6.200	0.000
1.000	1.000	87.10	0.000	0.000	BNA3(2)_335_337_L_0					
43 D	17.69	2.3503E-04	88.00	88.46	168.0	88.72	UL-RL	1.7321E+04	-6.400	0.000
1.000	1.000	88.46	0.000	0.000	BNA3(2)_335_337_L_0					
44 D	17.98	1.7256E-04	92.00	89.89	172.0	89.98	UL-RL	1.7321E+04	-6.600	0.000
1.000	1.000	89.89	0.000	0.000	BNA3(2)_335_337_L_0					
45 D	18.27	1.1563E-04	96.00	91.35	176.0	91.35	V-C	1.0825E+04	-6.800	0.000
1.000	1.000	91.35	0.000	0.000	BNA3(2)_335_337_L_0					
46 D	18.57	6.3988E-05	100.0	92.83	180.0	92.83	V-C	1.0825E+04	-7.000	0.000
1.000	1.000	92.83	0.000	0.000	BNA3(2)_335_337_L_0					
47 D	18.87	1.7399E-05	104.0	94.36	184.0	94.36	V-C	1.0825E+04	-7.200	0.000
1.000	1.000	94.36	0.000	0.000	BNA3(2)_335_337_L_0					
48 D	19.16	-2.4396E-05	108.0	95.79	188.0	96.21	UL-RL	1.7321E+04	-7.400	0.000
1.000	1.000	95.79	0.000	0.000	BNA3(2)_335_337_L_0					
49 D	19.44	-6.1650E-05	112.0	97.18	192.0	98.25	UL-RL	1.7321E+04	-7.600	0.000
1.000	1.000	97.18	0.000	0.000	BNA3(2)_335_337_L_0					
50 D	19.73	-9.4617E-05	116.0	98.64	196.0	100.3	UL-RL	1.7321E+04	-7.800	0.000
1.000	1.000	98.64	0.000	0.000	BNA3(2)_335_337_L_0					
51 D	20.04	-1.2355E-04	120.0	100.2	200.0	102.3	UL-RL	1.7321E+04	-8.000	0.000
1.000	1.000	100.2	0.000	0.000	BNA3(2)_335_337_L_0					
52 D	20.36	-1.4870E-04	124.0	101.8	204.0	104.4	UL-RL	1.7321E+04	-8.200	0.000
1.000	1.000	101.8	0.000	0.000	BNA3(2)_335_337_L_0					
53 D	20.69	-1.7030E-04	128.0	103.4	208.0	106.4	UL-RL	1.7321E+04	-8.400	0.000
1.000	1.000	103.4	0.000	0.000	BNA3(2)_335_337_L_0					
54 D	21.03	-1.8861E-04	132.0	105.2	212.0	108.4	UL-RL	1.7321E+04	-8.600	0.000
1.000	1.000	105.2	0.000	0.000	BNA3(2)_335_337_L_0					
55 D	21.39	-2.0385E-04	136.0	106.9	216.0	110.5	UL-RL	1.7321E+04	-8.800	0.000
1.000	1.000	106.9	0.000	0.000	BNA3(2)_335_337_L_0					
56 D	21.75	-2.1624E-04	140.0	108.7	220.0	112.5	UL-RL	1.7321E+04	-9.000	0.000
1.000	1.000	108.7	0.000	0.000	BNA3(2)_335_337_L_0					
57 D	22.12	-2.2601E-04	144.0	110.6	224.0	114.5	UL-RL	1.7321E+04	-9.200	0.000
1.000	1.000	110.6	0.000	0.000	BNA3(2)_335_337_L_0					
58 D	22.50	-2.3337E-04	148.0	112.5	228.0	116.6	UL-RL	1.7321E+04	-9.400	0.000
1.000	1.000	112.5	0.000	0.000	BNA3(2)_335_337_L_0					
59 D	22.89	-2.3850E-04	152.0	114.5	232.0	118.6	UL-RL	1.7321E+04	-9.600	0.000
1.000	1.000	114.5	0.000	0.000	BNA3(2)_335_337_L_0					
60 D	23.29	-2.4161E-04	156.0	116.4	236.0	120.6	UL-RL	1.7321E+04	-9.800	0.000
1.000	1.000	116.4	0.000	0.000	BNA3(2)_335_337_L_0					
61 D	23.69	-2.4288E-04	160.0	118.4	240.0	122.7	UL-RL	1.7321E+04	-10.000	0.000
1.000	1.000	118.4	0.000	0.000	BNA3(2)_335_337_L_0					
62 D	24.10	-2.4248E-04	164.0	120.5	244.0	124.7	UL-RL	1.7321E+04	-10.200	0.000
1.000	1.000	120.5	0.000	0.000	BNA3(2)_335_337_L_0					
63 D	24.51	-2.4056E-04	168.0	122.5	248.0	126.7	UL-RL	1.7321E+04	-10.400	0.000
1.000	1.000	122.5	0.000	0.000	BNA3(2)_335_337_L_0					
64 D	24.93	-2.3729E-04	172.0	124.6	252.0	128.7	UL-RL	1.7321E+04	-10.600	0.000
1.000	1.000	124.6	0.000	0.000	BNA3(2)_335_337_L_0					
65 D	25.35	-2.3281E-04	176.0	126.7	256.0	130.8	UL-RL	1.7321E+04	-10.800	0.000
1.000	1.000	126.7	0.000	0.000	BNA3(2)_335_337_L_0					
66 D	25.77	-2.2725E-04	180.0	128.9	260.0	132.8	UL-RL	1.7321E+04	-11.000	0.000
1.000	1.000	128.9	0.000	0.000	BNA3(2)_335_337_L_0					
67 D	26.20	-2.2073E-04	184.0	131.0	264.0	134.8	UL-RL	1.7321E+04	-11.200	0.000
1.000	1.000	131.0	0.000	0.000	BNA3(2)_335_337_L_0					
68 D	26.63	-2.1336E-04	188.0	133.2	268.0	136.8	UL-RL	1.7321E+04	-11.400	0.000
1.000	1.000	133.2	0.000	0.000	BNA3(2)_335_337_L_0					
69 D	27.06	-2.0527E-04	192.0	135.3	272.0	138.9	UL-RL	1.7321E+04	-11.600	0.000
1.000	1.000	135.3	0.000	0.000	BNA3(2)_335_337_L_0					
70 D	27.50	-1.9654E-04	196.0	137.5	276.0	140.9	UL-RL	1.7321E+04	-11.800	0.000
1.000	1.000	137.5	0.000	0.000	BNA3(2)_335_337_L_0					
71 D	27.94	-1.8726E-04	200.0	139.7	280.0	142.9	UL-RL	1.7321E+04	-12.000	0.000
1.000	1.000	139.7	0.000	0.000	BNA3(2)_335_337_L_0					
72 D	28.38	-1.7752E-04	204.0	141.9	284.0	145.0	UL-RL	1.7321E+04	-12.200	0.000
1.000	1.000	141.9	0.000	0.000	BNA3(2)_335_337_L_0					
73 D	28.81	-1.6739E-04	208.0	144.1	288.0	147.0	UL-RL	1.7321E+04	-12.400	0.000
1.000	1.000	144.1	0.000	0.000	BNA3(2)_335_337_L_0					
74 D	29.26	-1.5694E-04	212.0	146.3	292.0	149.0	UL-RL	1.7321E+04	-12.600	0.000
1.000	1.000	146.3	0.000	0.000	BNA3(2)_335_337_L_0					
75 D	29.70	-1.4622E-04	216.0	148.5	296.0	151.0	UL-RL	1.7321E+04	-12.800	0.000
1.000	1.000	148.5	0.000	0.000	BNA3(2)_335_337_L_0					
76 D	30.14	-1.3530E-04	220.0	150.7	300.0	153.0	UL-RL	1.7321E+04	-13.000	0.000
1.000	1.000	150.7	0.000	0.000	BNA3(2)_335_337_L_0					
77 D	34.98	-1.2422E-04	224.0	174.9	304.0	178.5	UL-RL	2.8668E+04	-13.200	0.000
1.000	1.000	174.9	0.000	0.000	BNA3(3)_336_338_L_0					
78 D	35.51	-1.1302E-04	228.0	177.6	308.0	180.8	UL-RL	2.8668E+04	-13.400	0.000
1.000	1.000	177.6	0.000	0.000	BNA3(3)_336_338_L_0					
79 D	36.04	-1.0174E-04	232.0	180.2	312.0	183.1	UL-RL	2.8668E+04	-13.600	0.000
1.000	1.000	180.2	0.000	0.000	BNA3(3)_336_338_L_0					

80 D	36.57	-9.0406E-05	236.0	182.9	316.0	185.5	UL-RL	2.8668E+04	-13.80	0.000
1.000	1.000	182.9	0.000	0.000	BNA3(3)_336_338_L_0					
81 D	37.10	-7.9043E-05	240.0	185.5	320.0	187.8	UL-RL	2.8668E+04	-14.00	0.000
1.000	1.000	185.5	0.000	0.000	BNA3(3)_336_338_L_0					
82 D	37.63	-6.7667E-05	244.0	188.2	324.0	190.1	UL-RL	2.8668E+04	-14.20	0.000
1.000	1.000	188.2	0.000	0.000	BNA3(3)_336_338_L_0					
83 D	38.16	-5.6290E-05	248.0	190.8	328.0	192.4	UL-RL	2.8668E+04	-14.40	0.000
1.000	1.000	190.8	0.000	0.000	BNA3(3)_336_338_L_0					
84 D	38.70	-4.4918E-05	252.0	193.5	332.0	194.8	UL-RL	2.8668E+04	-14.60	0.000
1.000	1.000	193.5	0.000	0.000	BNA3(3)_336_338_L_0					
85 D	39.23	-3.3558E-05	256.0	196.1	336.0	197.1	UL-RL	2.8668E+04	-14.80	0.000
1.000	1.000	196.1	0.000	0.000	BNA3(3)_336_338_L_0					
86 D	39.76	-2.2209E-05	260.0	198.8	340.0	199.4	UL-RL	2.8668E+04	-15.00	0.000
1.000	1.000	198.8	0.000	0.000	BNA3(3)_336_338_L_0					
87 D	40.28	-1.0871E-05	264.0	201.4	344.0	201.8	UL-RL	2.8668E+04	-15.20	0.000
1.000	1.000	201.4	0.000	0.000	BNA3(3)_336_338_L_0					
88 D	40.79	4.5749E-07	268.0	203.9	348.0	204.3	UL-RL	2.8668E+04	-15.40	0.000
1.000	1.000	203.9	0.000	0.000	BNA3(3)_336_338_L_0					
89 D	41.29	1.1779E-05	272.0	206.5	352.0	206.8	UL-RL	2.8668E+04	-15.60	0.000
1.000	1.000	206.5	0.000	0.000	BNA3(3)_336_338_L_0					
90 D	41.80	2.3098E-05	276.0	209.0	356.0	209.4	UL-RL	2.8668E+04	-15.80	0.000
1.000	1.000	209.0	0.000	0.000	BNA3(3)_336_338_L_0					
91 D	21.15	3.4416E-05	280.0	211.5	360.0	211.9	UL-RL	2.8668E+04	-16.00	0.000
1.000	1.000	211.5	0.000	0.000	BNA3(3)_336_338_L_0					

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|                PARATIE PLUS 2014 NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Sept23, 2015*                |
|                                                                                                                                            |
|                                                                                                                                            |
|                NewProject.BaseDesignSection_25.Nominal_60                                                                              |
|                Exe Time :29 June 2020    20:30:03                                                                              |
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New Project

STRESS RESULTS FOR GROUP NO. 3

WallElement_30 :
ELEMENT TYPE 2 NO.OF ELEMENTS. IN THIS GROUP 90
CURRENT TIME IS 3.0000

WALL2D ELEMENT

EL	TA	TB	MA	MB
1	1.24203E-09	-1.24203E-09	1.27017E-10	-6.61089E-11
2	1.3805	-1.3805	1.17311E-10	0.27609
3	3.2738	-3.2738	-0.27609	0.93085
4	5.6800	-5.6800	-0.93085	2.0668
5	8.5990	-8.5990	-2.0668	3.7866
6	12.031	-12.031	-3.7866	6.1928
7	15.976	-15.976	-6.1928	9.3879
8	20.433	-20.433	-9.3879	13.475
9	25.424	-25.424	-13.475	18.559
10	30.866	-30.866	-18.559	24.732
11	36.757	-36.757	-24.732	32.084
12	43.097	-43.097	-32.084	40.703
13	49.887	-49.887	-40.703	50.680
14	57.125	-57.125	-50.680	62.105
15	64.811	-64.811	-62.105	75.068
16	20.735	-20.735	-75.068	79.215
17	29.316	-29.316	-79.215	85.078
18	38.342	-38.342	-85.078	92.746
19	47.815	-47.815	-92.746	102.31
20	57.734	-57.734	-102.31	113.86
21	64.960	-64.960	-113.86	126.85
22	68.714	-68.714	-126.85	140.59
23	69.001	-69.001	-140.59	154.39
24	65.830	-65.830	-154.39	167.56
25	59.207	-59.207	-167.56	179.40
26	52.383	-52.383	-179.40	189.88
27	45.591	-45.591	-189.88	198.99
28	38.828	-38.828	-198.99	206.76
29	32.089	-32.089	-206.76	213.18
30	25.369	-25.369	-213.18	218.25
31	18.663	-18.663	-218.25	221.98
32	11.965	-11.965	-221.98	224.38
33	5.2704	-5.2704	-224.38	225.43
34	-1.4273	1.4273	-225.43	225.15
35	-8.1339	8.1339	-225.15	223.52
36	-14.217	14.217	-223.52	220.68
37	-19.535	19.535	-220.68	216.77
38	-24.136	24.136	-216.77	211.94
39	-28.068	28.068	-211.94	206.33
40	-31.377	31.377	-206.33	200.05
41	-34.110	34.110	-200.05	193.23
42	-36.311	36.311	-193.23	185.97
43	-38.022	38.022	-185.97	178.36
44	-39.285	39.285	-178.36	170.51
45	-40.139	40.139	-170.51	162.48
46	-40.667	40.667	-162.48	154.35
47	-40.929	40.929	-154.35	146.16
48	-40.920	40.920	-146.16	137.98
49	-40.649	40.649	-137.98	129.85
50	-40.143	40.143	-129.85	121.82
51	-39.432	39.432	-121.82	113.93
52	-38.540	38.540	-113.93	106.22
53	-37.493	37.493	-106.22	98.724
54	-36.312	36.312	-98.724	91.462
55	-35.023	35.023	-91.462	84.457
56	-33.651	33.651	-84.457	77.727
57	-32.215	32.215	-77.727	71.284
58	-30.730	30.730	-71.284	65.138
59	-29.210	29.210	-65.138	59.296
60	-27.668	27.668	-59.296	53.762
61	-26.116	26.116	-53.762	48.539
62	-24.565	24.565	-48.539	43.626
63	-23.025	23.025	-43.626	39.021
64	-21.505	21.505	-39.021	34.720
65	-20.012	20.012	-34.720	30.718
66	-18.553	18.553	-30.718	27.007
67	-17.135	17.135	-27.007	23.580
68	-15.763	15.763	-23.580	20.427
69	-14.442	14.442	-20.427	17.539
70	-13.177	13.177	-17.539	14.904

71	-11.970	11.970	-14.904	12.510
72	-10.825	10.825	-12.510	10.345
73	-9.7448	9.7448	-10.345	8.3956
74	-8.7309	8.7309	-8.3956	6.6494
75	-7.7854	7.7854	-6.6494	5.0923
76	-6.9096	6.9096	-5.0923	3.7104
77	-5.6881	5.6881	-3.7104	2.5728
78	-4.5755	4.5755	-2.5728	1.6577
79	-3.5726	3.5726	-1.6577	0.94315
80	-2.6800	2.6800	-0.94315	0.40715
81	-1.8980	1.8980	-0.40715	2.75615E-02
82	-1.2268	1.2268	-2.75615E-02	-0.21780
83	-0.66647	0.66647	0.21780	-0.35109
84	-0.21698	0.21698	0.35109	-0.39448
85	0.12174	-0.12174	0.39448	-0.37014
86	0.34712	-0.34712	0.37014	-0.30071
87	0.46194	-0.46194	0.30071	-0.20832
88	0.48494	-0.48494	0.20832	-0.11134
89	0.38738	-0.38738	0.11134	-3.38612E-02
90	0.16930	-0.16930	3.38612E-02	1.35003E-13

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|          PARATIE PLUS 2014 NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Sept23, 2015*          |
|                                                                                                                                            |
|                                                                                                                                            |
|                                                                                                                                            |
|          NewProject.BaseDesignSection_25.Nominal_60                                                                                       |
|          Exe Time :29 June 2020      20:30:03                                                                                             |
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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 . 4

Tieback_341 :
 ELEMENT TYPE 6 NO.OF ELEMENTS. IN THIS GROUP 1
 C U R R E N T T I M E I S 3.0000

POST-TENSION 2D-BOUNDARY ELEMENT

	EL	FORCE	d0	EDISPL	pl. eps	K	-ve limit	+ve limit	
ANCHOR	1	55.560	-6.63295E-04	-6.63295E-04	0.0000	0.0000	0.0000	0.0000	BORN NOW JUST ACTIVATED

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|                PARATIE PLUS 2014 NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Sept23, 2015*                |
|                                                                                                                                            |
|                NewProject.BaseDesignSection_25.Nominal_60                                                                              |
|                Exe Time :29 June 2020      20:30:03                                                                              |
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New Project

STRESS RESULTS FOR GROUP NO. 5

Tieback_342 :
ELEMENT TYPE 6 NO.OF ELEMENTS. IN THIS GROUP 1
CURRENT TIME IS 3.0000

POST-TENSION 2D-BOUNDARY ELEMENT

EL	FORCE	d0	EDISPL	pl. eps	K	-ve limit	+ve limit
----	-------	----	--------	---------	---	-----------	-----------

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

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ITER 0 RNORM = 0.000 RMNORM= 0.000
RINORM=0.2654E+06 RIMNOR=0.2409E+07
RENORM= 4622. REMNOR=0.1299E-18 RATIO =0.1320 TOLER =0.1000E-03 NOT CONVERGED
RFMAX = 69.00 RMMAX = 225.4
RTSMAL=0.1000E-03 RMSMAL=0.1000E-02
RDT =0.2654E+06 RDR =0.2409E+07
RATIOT=0.1320 RATIO= 0.000
MAX UN= 17.16 IEQ= 81 NODE 41 DOF 1 Y-DISPL.F
MIN UN=-.2136E-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=0.2654E+06 RIMNOR=0.2409E+07
RENORM= 837.0 REMNOR=0.9961E-18 RATIO =0.5616E-01 TOLER =0.1000E-03 NOT CONVERGED
RFMAX = 69.00 RMMAX = 225.4
RTSMAL=0.1000E-03 RMSMAL=0.1000E-02
RDT =0.2654E+06 RDR =0.2409E+07
RATIOT=0.5616E-01 RATIO= 0.000
MAX UN= 7.078 IEQ= 63 NODE 32 DOF 1 Y-DISPL.F
MIN UN=-.4961 IEQ= 179 NODE 90 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 3 RNORM = 0.000 RMNORM= 0.000
RINORM=0.2654E+06 RIMNOR=0.2409E+07
RENORM= 1152. REMNOR=0.2134E-16 RATIO =0.6590E-01 TOLER =0.1000E-03 NOT CONVERGED
RFMAX = 69.00 RMMAX = 225.4
RTSMAL=0.1000E-03 RMSMAL=0.1000E-02
RDT =0.2654E+06 RDR =0.2409E+07
RATIOT=0.6590E-01 RATIO= 0.000
MAX UN= 16.22 IEQ= 87 NODE 44 DOF 1 Y-DISPL.F
MIN UN=-.5812 IEQ= 151 NODE 76 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 4 RNORM = 0.000 RMNORM= 0.000
RINORM=0.2654E+06 RIMNOR=0.2409E+07
RENORM= 91.70 REMNOR=0.1520E-16 RATIO =0.1859E-01 TOLER =0.1000E-03 NOT CONVERGED
RFMAX = 69.00 RMMAX = 225.4
RTSMAL=0.1000E-03 RMSMAL=0.1000E-02
RDT =0.2654E+06 RDR =0.2409E+07
RATIOT=0.1859E-01 RATIO= 0.000
MAX UN= 6.533 IEQ= 111 NODE 56 DOF 1 Y-DISPL.F
MIN UN=-.5109 IEQ= 143 NODE 72 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 5 RNORM = 0.000 RMNORM= 0.000
RINORM=0.2654E+06 RIMNOR=0.2409E+07
RENORM= 1.012 REMNOR=0.1263E-16 RATIO =0.1952E-02 TOLER =0.1000E-03 NOT CONVERGED
RFMAX = 69.00 RMMAX = 225.4
RTSMAL=0.1000E-03 RMSMAL=0.1000E-02
RDT =0.2654E+06 RDR =0.2409E+07
RATIOT=0.1952E-02 RATIO= 0.000
MAX UN= 1.001 IEQ= 121 NODE 61 DOF 1 Y-DISPL.F
MIN UN=-.7635E-01 IEQ= 155 NODE 78 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 6 RNORM = 0.000 RMNORM= 0.000
RINORM=0.2654E+06 RIMNOR=0.2409E+07
RENORM=0.3475E-14 REMNOR=0.5478E-17 RATIO =0.1144E-09 TOLER =0.1000E-03 CONVERGED !
RFMAX = 69.00 RMMAX = 225.4
RTSMAL=0.1000E-03 RMSMAL=0.1000E-02
RDT =0.2654E+06 RDR =0.2409E+07
RATIOT=0.1144E-09 RATIO= 0.000

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```
MAX UN=0.2012E-07 IEQ= 33 NODE 17 DOF 1 Y-DISPL.F  
MIN UN=-.2176E-07 IEQ= 27 NODE 14 DOF 1 Y-DISPL.F  
NO. OF CONTACT CONSTRAINT VIOLATIONS 0
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|                PARATIE PLUS 2014 NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Sept23, 2015*                |
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|                                                                                                                                            |
|                NewProject.BaseDesignSection_25.Nominal_60                                                                              |
|                Exe Time :29 June 2020      20:30:03                                                                              |
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New Project
SOLUTION REACHED USING 6 ITERATIONS ON 40

PRINT OUT FOR TIME STEP 4 (AT TIME 4.000)

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

	Y-DISPL.F (02)	X-ROT. F (04)	(
1	5.0261033E-02	-4.3690302E-03	
2	4.9387227E-02	-4.3690302E-03	
3	4.8513421E-02	-4.3690226E-03	
4	4.7639620E-02	-4.3689847E-03	
5	4.6765832E-02	-4.3688785E-03	
6	4.5892075E-02	-4.3686511E-03	
7	4.5018383E-02	-4.3682342E-03	
8	4.4144800E-02	-4.3675444E-03	
9	4.3271390E-02	-4.3664831E-03	
10	4.2398239E-02	-4.3649367E-03	
11	4.1525457E-02	-4.3627762E-03	
12	4.0653179E-02	-4.3598577E-03	
13	3.9781574E-02	-4.3560220E-03	
14	3.8910843E-02	-4.3510946E-03	
15	3.8041222E-02	-4.3448861E-03	
16	3.7172988E-02	-4.3371918E-03	
17	3.6306369E-02	-4.3291533E-03	
18	3.5441275E-02	-4.3218972E-03	
19	3.4577575E-02	-4.3151732E-03	
20	3.3715188E-02	-4.3087161E-03	
21	3.2854089E-02	-4.3022454E-03	
22	3.1994305E-02	-4.2955431E-03	
23	3.1135897E-02	-4.2884575E-03	
24	3.0278958E-02	-4.2808286E-03	
25	2.9423613E-02	-4.2724880E-03	
26	2.8570022E-02	-4.2632593E-03	
27	2.7718377E-02	-4.2529573E-03	
28	2.6868920E-02	-4.2413891E-03	
29	2.6021919E-02	-4.2283531E-03	
30	2.5177690E-02	-4.2136397E-03	
31	2.4336594E-02	-4.1970309E-03	
32	2.3499024E-02	-4.1783003E-03	
33	2.2665431E-02	-4.1572134E-03	
34	2.1836311E-02	-4.1335273E-03	
35	2.1012210E-02	-4.1069909E-03	
36	2.0193722E-02	-4.0773447E-03	
37	1.9381497E-02	-4.0443211E-03	
38	1.8576238E-02	-4.0076440E-03	
39	1.7778706E-02	-3.9670294E-03	
40	1.6989712E-02	-3.9221844E-03	
41	1.6210134E-02	-3.8728081E-03	
42	1.5440911E-02	-3.8185917E-03	
43	1.4683036E-02	-3.7593029E-03	
44	1.3937539E-02	-3.6948407E-03	
45	1.3205449E-02	-3.6252013E-03	
46	1.2487797E-02	-3.5504798E-03	
47	1.1785583E-02	-3.4708697E-03	
48	1.1099756E-02	-3.3866627E-03	
49	1.0431198E-02	-3.2982485E-03	
50	9.7807073E-03	-3.2061159E-03	
51	9.1489662E-03	-3.1108131E-03	
52	8.5365565E-03	-3.0128925E-03	
53	7.9439481E-03	-2.9128889E-03	
54	7.3715053E-03	-2.8113200E-03	
55	6.8194937E-03	-2.7086883E-03	
56	6.2880713E-03	-2.6054796E-03	
57	5.7773088E-03	-2.5021670E-03	
58	5.2871808E-03	-2.3992094E-03	
59	4.8175716E-03	-2.2970530E-03	
60	4.3682794E-03	-2.1961324E-03	
61	3.9390104E-03	-2.0968695E-03	
62	3.5293836E-03	-1.9996746E-03	
63	3.1389844E-03	-1.9049576E-03	
64	2.7672312E-03	-1.8130769E-03	
65	2.4135424E-03	-1.7243646E-03	
66	2.0772551E-03	-1.6391063E-03	
67	1.7576532E-03	-1.5575486E-03	
68	1.4539750E-03	-1.4799007E-03	
69	1.1654206E-03	-1.4063365E-03	
70	8.9115880E-04	-1.3369962E-03	
71	6.3033334E-04	-1.2719883E-03	
72	3.8206942E-04	-1.2113912E-03	
73	1.4547937E-04	-1.1552561E-03	
74	-8.0332331E-05	-1.1036104E-03	

75 -2.9626430E-04 -1.0564571E-03
76 -5.0321315E-04 -1.0137735E-03
77 -7.0206858E-04 -9.7551308E-04
78 -8.9370717E-04 -9.4158443E-04
79 -1.0789818E-03 -9.1184754E-04
80 -1.2587143E-03 -8.8613210E-04
81 -1.4336895E-03 -8.6424010E-04
82 -1.6046502E-03 -8.4594661E-04
83 -1.7722914E-03 -8.3100073E-04
84 -1.9372553E-03 -8.1912650E-04
85 -2.1001267E-03 -8.1002356E-04
86 -2.2614278E-03 -8.0336750E-04
87 -2.4216136E-03 -7.9881014E-04
88 -2.5810670E-03 -7.9597967E-04
89 -2.7400942E-03 -7.9448045E-04
90 -2.8989200E-03 -7.9389274E-04
91 -3.0576905E-03 -7.9377279E-04


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|                PARATIE PLUS 2014 NLS ENGINE RELEASE  2016  FULL VERSION  *Build date: Sept23, 2015*                |
|                                                                                                                    |
|                NewProject.BaseDesignSection_25.Nominal_60                                                         |
|                Exe Time :29 June 2020      20:30:03                                                                |
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New Project

STRESS RESULTS FOR GROUP NO. 1

0_L :
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 91
CURRENT TIME IS 4.0000

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 LAYER	MAX-H-P	STATE	STIFFNESS	Z-LEVEL	PORE	E FAC-
1 D	0.000	-5.0261E-02	0.000	0.000	0.000	0.000	ACTIVE	0.000	2.000	0.000	
1.000	1.000	0.000	0.000	0.000	FRANA_334_8_L_0						
2 D	0.4880	-4.9387E-02	4.000	2.440	4.000	6.902	ACTIVE	0.000	1.800	0.000	
1.000	1.000	2.440	0.000	0.000	FRANA_334_8_L_0						
3 D	0.9760	-4.8513E-02	8.000	4.880	8.000	9.467	ACTIVE	0.000	1.600	0.000	
1.000	1.000	4.880	0.000	0.000	FRANA_334_8_L_0						
4 D	1.464	-4.7640E-02	12.00	7.320	12.00	12.03	ACTIVE	0.000	1.400	0.000	
1.000	1.000	7.320	0.000	0.000	FRANA_334_8_L_0						
5 D	1.952	-4.6766E-02	16.00	9.760	16.00	14.60	ACTIVE	0.000	1.200	0.000	
1.000	1.000	9.760	0.000	0.000	FRANA_334_8_L_0						
6 D	2.440	-4.5892E-02	20.00	12.20	20.00	17.16	ACTIVE	0.000	1.000	0.000	
1.000	1.000	12.20	0.000	0.000	FRANA_334_8_L_0						
7 D	2.928	-4.5018E-02	24.00	14.64	24.00	19.72	ACTIVE	0.000	0.8000	0.000	
1.000	1.000	14.64	0.000	0.000	FRANA_334_8_L_0						
8 D	3.416	-4.4145E-02	28.00	17.08	28.00	22.29	ACTIVE	0.000	0.6000	0.000	
1.000	1.000	17.08	0.000	0.000	FRANA_334_8_L_0						
9 D	3.904	-4.3271E-02	32.00	19.52	32.00	24.85	ACTIVE	0.000	0.4000	0.000	
1.000	1.000	19.52	0.000	0.000	FRANA_334_8_L_0						
10 D	4.392	-4.2398E-02	36.00	21.96	36.00	27.76	ACTIVE	0.000	0.2000	0.000	
1.000	1.000	21.96	0.000	0.000	FRANA_334_8_L_0						
11 D	4.880	-4.1525E-02	40.00	24.40	40.00	30.84	ACTIVE	0.000	-1.4901E-07	0.000	
1.000	1.000	24.40	0.000	0.000	FRANA_334_8_L_0						
12 D	5.368	-4.0653E-02	44.00	26.84	44.00	33.92	ACTIVE	0.000	-0.2000	0.000	
1.000	1.000	26.84	0.000	0.000	FRANA_334_8_L_0						
13 D	5.856	-3.9782E-02	48.00	29.28	48.00	37.01	ACTIVE	0.000	-0.4000	0.000	
1.000	1.000	29.28	0.000	0.000	FRANA_334_8_L_0						
14 D	6.344	-3.8911E-02	52.00	31.72	52.00	40.09	ACTIVE	0.000	-0.6000	0.000	
1.000	1.000	31.72	0.000	0.000	FRANA_334_8_L_0						
15 D	6.832	-3.8041E-02	56.00	34.16	56.00	43.17	ACTIVE	0.000	-0.8000	0.000	
1.000	1.000	34.16	0.000	0.000	FRANA_334_8_L_0						
16 D	7.321	-3.7173E-02	60.00	36.60	60.00	46.25	ACTIVE	0.000	-1.000	0.000	
1.000	1.000	36.60	0.000	0.000	FRANA_334_8_L_0						
17 D	7.809	-3.6306E-02	64.01	39.04	64.01	49.34	ACTIVE	0.000	-1.200	0.000	
1.000	1.000	39.04	0.000	0.000	FRANA_334_8_L_0						
18 D	8.297	-3.5441E-02	68.01	41.48	68.01	52.42	ACTIVE	0.000	-1.400	0.000	
1.000	1.000	41.48	0.000	0.000	FRANA_334_8_L_0						
19 D	8.785	-3.4578E-02	72.01	43.92	72.01	55.50	ACTIVE	0.000	-1.600	0.000	
1.000	1.000	43.92	0.000	0.000	FRANA_334_8_L_0						
20 D	9.273	-3.3715E-02	76.01	46.37	76.01	58.58	ACTIVE	0.000	-1.800	0.000	
1.000	1.000	46.37	0.000	0.000	FRANA_334_8_L_0						
21 D	4.752	-3.2854E-02	80.01	23.76	80.01	41.02	ACTIVE	0.000	-2.000	0.000	
1.000	1.000	23.76	0.000	0.000	BNA3(2)_335_337_L_0						
22 D	5.018	-3.1994E-02	84.01	25.09	84.01	43.07	ACTIVE	0.000	-2.200	0.000	
1.000	1.000	25.09	0.000	0.000	BNA3(2)_335_337_L_0						
23 D	5.285	-3.1136E-02	88.01	26.42	88.01	45.12	ACTIVE	0.000	-2.400	0.000	
1.000	1.000	26.42	0.000	0.000	BNA3(2)_335_337_L_0						
24 D	5.551	-3.0279E-02	92.02	27.76	92.02	47.17	ACTIVE	0.000	-2.600	0.000	
1.000	1.000	27.76	0.000	0.000	BNA3(2)_335_337_L_0						
25 D	5.818	-2.9424E-02	96.02	29.09	96.02	49.22	ACTIVE	0.000	-2.800	0.000	
1.000	1.000	29.09	0.000	0.000	BNA3(2)_335_337_L_0						
26 D	6.084	-2.8570E-02	100.0	30.42	100.0	51.26	ACTIVE	0.000	-3.000	0.000	
1.000	1.000	30.42	0.000	0.000	BNA3(2)_335_337_L_0						
27 D	6.351	-2.7718E-02	104.0	31.75	104.0	53.31	ACTIVE	0.000	-3.200	0.000	
1.000	1.000	31.75	0.000	0.000	BNA3(2)_335_337_L_0						
28 D	6.617	-2.6869E-02	108.0	33.09	108.0	55.36	ACTIVE	0.000	-3.400	0.000	
1.000	1.000	33.09	0.000	0.000	BNA3(2)_335_337_L_0						
29 D	6.884	-2.6022E-02	112.0	34.42	112.0	57.41	ACTIVE	0.000	-3.600	0.000	
1.000	1.000	34.42	0.000	0.000	BNA3(2)_335_337_L_0						
30 D	7.151	-2.5178E-02	116.0	35.75	116.0	59.45	ACTIVE	0.000	-3.800	0.000	
1.000	1.000	35.75	0.000	0.000	BNA3(2)_335_337_L_0						
31 D	7.417	-2.4337E-02	120.0	37.09	120.0	61.50	ACTIVE	0.000	-4.000	0.000	
1.000	1.000	37.09	0.000	0.000	BNA3(2)_335_337_L_0						
32 D	7.684	-2.3499E-02	124.0	38.42	124.0	63.54	ACTIVE	0.000	-4.200	0.000	
1.000	1.000	38.42	0.000	0.000	BNA3(2)_335_337_L_0						
33 D	7.950	-2.2665E-02	128.0	39.75	128.0	65.59	ACTIVE	0.000	-4.400	0.000	
1.000	1.000	39.75	0.000	0.000	BNA3(2)_335_337_L_0						

34 D	8.217	-2.1836E-02	132.0	41.09	132.0	67.63	ACTIVE	0.000	-4.600	0.000
1.000	1.000	41.09	0.000	0.000	BNA3(2)_335_337_L_0					
35 D	8.484	-2.1012E-02	136.0	42.42	136.0	69.68	ACTIVE	0.000	-4.800	0.000
1.000	1.000	42.42	0.000	0.000	BNA3(2)_335_337_L_0					
36 D	8.750	-2.0194E-02	140.1	43.75	140.1	71.72	ACTIVE	0.000	-5.000	0.000
1.000	1.000	43.75	0.000	0.000	BNA3(2)_335_337_L_0					
37 D	9.017	-1.9381E-02	144.1	45.09	144.1	73.76	ACTIVE	0.000	-5.200	0.000
1.000	1.000	45.09	0.000	0.000	BNA3(2)_335_337_L_0					
38 D	9.284	-1.8576E-02	148.1	46.42	148.1	75.81	ACTIVE	0.000	-5.400	0.000
1.000	1.000	46.42	0.000	0.000	BNA3(2)_335_337_L_0					
39 D	9.550	-1.7779E-02	152.1	47.75	152.1	77.85	ACTIVE	0.000	-5.600	0.000
1.000	1.000	47.75	0.000	0.000	BNA3(2)_335_337_L_0					
40 D	9.817	-1.6990E-02	156.1	49.09	156.1	79.89	ACTIVE	0.000	-5.800	0.000
1.000	1.000	49.09	0.000	0.000	BNA3(2)_335_337_L_0					
41 D	10.08	-1.6210E-02	160.1	50.42	160.1	81.93	ACTIVE	0.000	-6.000	0.000
1.000	1.000	50.42	0.000	0.000	BNA3(2)_335_337_L_0					
42 D	10.35	-1.5441E-02	164.1	51.75	164.1	83.97	ACTIVE	0.000	-6.200	0.000
1.000	1.000	51.75	0.000	0.000	BNA3(2)_335_337_L_0					
43 D	10.62	-1.4683E-02	168.1	53.09	168.1	86.01	ACTIVE	0.000	-6.400	0.000
1.000	1.000	53.09	0.000	0.000	BNA3(2)_335_337_L_0					
44 D	10.88	-1.3938E-02	172.1	54.42	172.1	88.05	ACTIVE	0.000	-6.600	0.000
1.000	1.000	54.42	0.000	0.000	BNA3(2)_335_337_L_0					
45 D	11.15	-1.3205E-02	176.1	55.76	176.1	90.09	ACTIVE	0.000	-6.800	0.000
1.000	1.000	55.76	0.000	0.000	BNA3(2)_335_337_L_0					
46 D	11.42	-1.2488E-02	180.1	57.09	180.1	92.61	ACTIVE	0.000	-7.000	0.000
1.000	1.000	57.09	0.000	0.000	BNA3(2)_335_337_L_0					
47 D	11.68	-1.1786E-02	184.1	58.42	184.1	95.29	ACTIVE	0.000	-7.200	0.000
1.000	1.000	58.42	0.000	0.000	BNA3(2)_335_337_L_0					
48 D	11.95	-1.1100E-02	188.1	59.76	188.1	97.90	ACTIVE	0.000	-7.400	0.000
1.000	1.000	59.76	0.000	0.000	BNA3(2)_335_337_L_0					
49 D	12.22	-1.0431E-02	192.1	61.09	192.1	100.4	ACTIVE	0.000	-7.600	0.000
1.000	1.000	61.09	0.000	0.000	BNA3(2)_335_337_L_0					
50 D	12.49	-9.7807E-03	196.1	62.43	196.1	102.9	ACTIVE	0.000	-7.800	0.000
1.000	1.000	62.43	0.000	0.000	BNA3(2)_335_337_L_0					
51 D	12.75	-9.1490E-03	200.1	63.76	200.1	105.3	ACTIVE	0.000	-8.000	0.000
1.000	1.000	63.76	0.000	0.000	BNA3(2)_335_337_L_0					
52 D	13.02	-8.5366E-03	204.1	65.10	204.1	107.7	ACTIVE	0.000	-8.200	0.000
1.000	1.000	65.10	0.000	0.000	BNA3(2)_335_337_L_0					
53 D	13.29	-7.9439E-03	208.2	66.43	208.2	110.0	ACTIVE	0.000	-8.400	0.000
1.000	1.000	66.43	0.000	0.000	BNA3(2)_335_337_L_0					
54 D	13.55	-7.3715E-03	212.2	67.77	212.2	112.2	ACTIVE	0.000	-8.600	0.000
1.000	1.000	67.77	0.000	0.000	BNA3(2)_335_337_L_0					
55 D	13.82	-6.8195E-03	216.2	69.10	216.2	114.4	ACTIVE	0.000	-8.800	0.000
1.000	1.000	69.10	0.000	0.000	BNA3(2)_335_337_L_0					
56 D	14.09	-6.2881E-03	220.2	70.43	220.2	116.7	ACTIVE	0.000	-9.000	0.000
1.000	1.000	70.43	0.000	0.000	BNA3(2)_335_337_L_0					
57 D	14.35	-5.7773E-03	224.2	71.77	224.2	118.9	ACTIVE	0.000	-9.200	0.000
1.000	1.000	71.77	0.000	0.000	BNA3(2)_335_337_L_0					
58 D	14.62	-5.2872E-03	228.2	73.10	228.2	121.0	ACTIVE	0.000	-9.400	0.000
1.000	1.000	73.10	0.000	0.000	BNA3(2)_335_337_L_0					
59 D	14.89	-4.8176E-03	232.2	74.44	232.2	123.1	ACTIVE	0.000	-9.600	0.000
1.000	1.000	74.44	0.000	0.000	BNA3(2)_335_337_L_0					
60 D	15.16	-4.3683E-03	236.2	75.78	236.2	125.2	ACTIVE	0.000	-9.800	0.000
1.000	1.000	75.78	0.000	0.000	BNA3(2)_335_337_L_0					
61 D	15.42	-3.9390E-03	240.2	77.11	240.2	127.2	ACTIVE	0.000	-10.000	0.000
1.000	1.000	77.11	0.000	0.000	BNA3(2)_335_337_L_0					
62 D	15.85	-3.5294E-03	244.2	79.24	244.2	129.3	UL-RL	1.2990E+04	-10.20	0.000
1.000	1.000	79.24	0.000	0.000	BNA3(2)_335_337_L_0					
63 D	17.27	-3.1390E-03	248.2	86.34	248.2	131.2	UL-RL	1.2990E+04	-10.40	0.000
1.000	1.000	86.34	0.000	0.000	BNA3(2)_335_337_L_0					
64 D	18.64	-2.7672E-03	252.3	93.20	252.3	133.2	UL-RL	1.2990E+04	-10.60	0.000
1.000	1.000	93.20	0.000	0.000	BNA3(2)_335_337_L_0					
65 D	19.96	-2.4135E-03	256.3	99.82	256.3	135.1	UL-RL	1.2990E+04	-10.80	0.000
1.000	1.000	99.82	0.000	0.000	BNA3(2)_335_337_L_0					
66 D	21.24	-2.0773E-03	260.3	106.2	260.3	137.0	UL-RL	1.2990E+04	-11.00	0.000
1.000	1.000	106.2	0.000	0.000	BNA3(2)_335_337_L_0					
67 D	22.48	-1.7577E-03	264.3	112.4	264.3	138.9	UL-RL	1.2990E+04	-11.20	0.000
1.000	1.000	112.4	0.000	0.000	BNA3(2)_335_337_L_0					
68 D	23.67	-1.4540E-03	268.3	118.4	268.3	140.8	UL-RL	1.2990E+04	-11.40	0.000
1.000	1.000	118.4	0.000	0.000	BNA3(2)_335_337_L_0					
69 D	24.82	-1.1654E-03	272.3	124.1	272.3	142.7	UL-RL	1.2990E+04	-11.60	0.000
1.000	1.000	124.1	0.000	0.000	BNA3(2)_335_337_L_0					
70 D	25.94	-8.9116E-04	276.3	129.7	276.3	144.5	UL-RL	1.2990E+04	-11.80	0.000
1.000	1.000	129.7	0.000	0.000	BNA3(2)_335_337_L_0					
71 D	27.02	-6.3033E-04	280.3	135.1	280.3	146.4	UL-RL	1.2990E+04	-12.00	0.000
1.000	1.000	135.1	0.000	0.000	BNA3(2)_335_337_L_0					
72 D	27.96	-3.8207E-04	284.4	139.8	284.4	149.1	UL-RL	1.2990E+04	-12.20	0.000
1.000	1.000	139.8	0.000	0.000	BNA3(2)_335_337_L_0					
73 D	28.85	-1.4548E-04	288.4	144.2	288.4	152.0	UL-RL	1.2990E+04	-12.40	0.000
1.000	1.000	144.2	0.000	0.000	BNA3(2)_335_337_L_0					
74 D	29.71	8.0332E-05	292.4	148.6	292.4	154.9	UL-RL	1.2990E+04	-12.60	0.000
1.000	1.000	148.6	0.000	0.000	BNA3(2)_335_337_L_0					
75 D	30.56	2.9626E-04	296.4	152.8	296.4	157.6	UL-RL	1.2990E+04	-12.80	0.000
1.000	1.000	152.8	0.000	0.000	BNA3(2)_335_337_L_0					
76 D	31.39	5.0321E-04	300.4	157.0	300.4	160.4	UL-RL	1.2990E+04	-13.00	0.000
1.000	1.000	157.0	0.000	0.000	BNA3(2)_335_337_L_0					
77 D	37.31	7.0207E-04	304.4	186.6	304.4	189.3	UL-RL	1.7659E+04	-13.20	0.000
1.000	1.000	186.6	0.000	0.000	BNA3(3)_336_338_L_0					
78 D	38.30	8.9371E-04	308.4	191.5	308.4	192.6	UL-RL	1.7659E+04	-13.40	0.000
1.000	1.000	191.5	0.000	0.000	BNA3(3)_336_338_L_0					
79 D	39.18	1.0790E-03	312.4	195.9	312.4	196.6	UL-RL	1.7659E+04	-13.60	0.000
1.000	1.000	195.9	0.000	0.000	BNA3(3)_336_338_L_0					

80 D	40.04	1.2587E-03	316.5	200.2	316.5	200.6	UL-RL	1.7659E+04	-13.80	0.000
1.000	1.000	200.2	0.000	0.000	BNA3(3)_336_338_L_0					
81 D	40.89	1.4337E-03	320.5	204.4	320.5	204.6	UL-RL	1.7659E+04	-14.00	0.000
1.000	1.000	204.4	0.000	0.000	BNA3(3)_336_338_L_0					
82 D	41.71	1.6047E-03	324.5	208.6	324.5	208.6	V-C	1.1037E+04	-14.20	0.000
1.000	1.000	208.6	0.000	0.000	BNA3(3)_336_338_L_0					
83 D	42.52	1.7723E-03	328.5	212.6	328.5	212.6	V-C	1.1037E+04	-14.40	0.000
1.000	1.000	212.6	0.000	0.000	BNA3(3)_336_338_L_0					
84 D	43.33	1.9373E-03	332.5	216.6	332.5	216.6	V-C	1.1037E+04	-14.60	0.000
1.000	1.000	216.6	0.000	0.000	BNA3(3)_336_338_L_0					
85 D	44.13	2.1001E-03	336.5	220.6	336.5	220.6	V-C	1.1037E+04	-14.80	0.000
1.000	1.000	220.6	0.000	0.000	BNA3(3)_336_338_L_0					
86 D	44.92	2.2614E-03	340.5	224.6	340.5	224.6	V-C	1.1037E+04	-15.00	0.000
1.000	1.000	224.6	0.000	0.000	BNA3(3)_336_338_L_0					
87 D	45.72	2.4216E-03	344.6	228.6	344.6	228.6	V-C	1.1037E+04	-15.20	0.000
1.000	1.000	228.6	0.000	0.000	BNA3(3)_336_338_L_0					
88 D	46.51	2.5811E-03	348.6	232.5	348.6	232.5	V-C	1.1037E+04	-15.40	0.000
1.000	1.000	232.5	0.000	0.000	BNA3(3)_336_338_L_0					
89 D	47.30	2.7401E-03	352.6	236.5	352.6	236.5	V-C	1.1037E+04	-15.60	0.000
1.000	1.000	236.5	0.000	0.000	BNA3(3)_336_338_L_0					
90 D	48.09	2.8989E-03	356.6	240.4	356.6	240.4	V-C	1.1037E+04	-15.80	0.000
1.000	1.000	240.4	0.000	0.000	BNA3(3)_336_338_L_0					
91 D	24.44	3.0577E-03	360.6	244.4	360.6	244.4	V-C	1.1037E+04	-16.00	0.000
1.000	1.000	244.4	0.000	0.000	BNA3(3)_336_338_L_0					

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|                PARATIE PLUS 2014 NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Sept23, 2015*                |
|                                                                                                                    |
|                NewProject.BaseDesignSection_25.Nominal_60                                                            |
|                Exe Time :29 June 2020      20:30:03                                                                |
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New Project

STRESS RESULTS FOR GROUP NO. 2

0_R :
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 91
CURRENT TIME IS 4.0000

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 LAYER	MAX-H-P	STATE	STIFFNESS	Z-LEVEL	PORE	E FAC-
1	0.000	--	--	--	--	--	REMOVED	--	2.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
2	0.000	--	--	--	--	--	REMOVED	--	1.800	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
3	0.000	--	--	--	--	--	REMOVED	--	1.600	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
4	0.000	--	--	--	--	--	REMOVED	--	1.400	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
5	0.000	--	--	--	--	--	REMOVED	--	1.200	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
6	0.000	--	--	--	--	--	REMOVED	--	1.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
7	0.000	--	--	--	--	--	REMOVED	--	0.8000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
8	0.000	--	--	--	--	--	REMOVED	--	0.6000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
9	0.000	--	--	--	--	--	REMOVED	--	0.4000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
10	0.000	--	--	--	--	--	REMOVED	--	0.2000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
11	0.000	--	--	--	--	--	REMOVED	--	-1.4901E-07	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
12	0.000	--	--	--	--	--	REMOVED	--	-0.2000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
13	0.000	--	--	--	--	--	REMOVED	--	-0.4000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
14	0.000	--	--	--	--	--	REMOVED	--	-0.6000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
15	0.000	--	--	--	--	--	REMOVED	--	-0.8000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
16	0.000	--	--	--	--	--	REMOVED	--	-1.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
17	0.000	--	--	--	--	--	REMOVED	--	-1.200	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
18	0.000	--	--	--	--	--	REMOVED	--	-1.400	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
19	0.000	--	--	--	--	--	REMOVED	--	-1.600	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
20	0.000	--	--	--	--	--	REMOVED	--	-1.800	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
21	0.000	--	--	--	--	--	REMOVED	--	-2.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
22	0.000	--	--	--	--	--	REMOVED	--	-2.200	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
23	0.000	--	--	--	--	--	REMOVED	--	-2.400	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
24	0.000	--	--	--	--	--	REMOVED	--	-2.600	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
25	0.000	--	--	--	--	--	REMOVED	--	-2.800	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
26	0.000	--	--	--	--	--	REMOVED	--	-3.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
27	0.000	--	--	--	--	--	REMOVED	--	-3.200	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
28	0.000	--	--	--	--	--	REMOVED	--	-3.400	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
29	0.000	--	--	--	--	--	REMOVED	--	-3.600	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
30	0.000	--	--	--	--	--	REMOVED	--	-3.800	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
31	0.000	--	--	--	--	--	REMOVED	--	-4.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
32	0.000	--	--	--	--	--	REMOVED	--	-4.200	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
33	0.000	--	--	--	--	--	REMOVED	--	-4.400	0.000	
1.000	1.000	0.000	0.000	0.000	not available						

34	0.000	--	--	--	--	--	REMOVED	--	-4.600	0.000
1.000	1.000	0.000	0.000	0.000	0.000	not available				
35	0.000	--	--	--	--	--	REMOVED	--	-4.800	0.000
1.000	1.000	0.000	0.000	0.000	0.000	not available				
36	0.000	--	--	--	--	--	REMOVED	--	-5.000	0.000
1.000	1.000	0.000	0.000	0.000	0.000	not available				
37	0.000	--	--	--	--	--	REMOVED	--	-5.200	0.000
1.000	1.000	0.000	0.000	0.000	0.000	not available				
38	0.000	--	--	--	--	--	REMOVED	--	-5.400	0.000
1.000	1.000	0.000	0.000	0.000	0.000	not available				
39	0.000	--	--	--	--	--	REMOVED	--	-5.600	0.000
1.000	1.000	0.000	0.000	0.000	0.000	not available				
40	0.000	--	--	--	--	--	REMOVED	--	-5.800	0.000
1.000	1.000	0.000	0.000	0.000	0.000	not available				
41	0.000	--	--	--	--	--	REMOVED	--	-6.000	0.000
1.000	1.000	0.000	0.000	0.000	0.000	not available				
42 D	5.501	1.5441E-02	4.000	27.51	164.0	87.52	PASSIVE	0.000	-6.200	0.000
1.000	1.000	27.51	0.000	0.000	BNA3(2)_335_337_L_0					
43 D	8.932	1.4683E-02	8.000	44.66	168.0	88.72	PASSIVE	0.000	-6.400	0.000
1.000	1.000	44.66	0.000	0.000	BNA3(2)_335_337_L_0					
44 D	12.36	1.3938E-02	12.00	61.81	172.0	89.98	PASSIVE	0.000	-6.600	0.000
1.000	1.000	61.81	0.000	0.000	BNA3(2)_335_337_L_0					
45 D	15.79	1.3205E-02	16.00	78.96	176.0	91.35	PASSIVE	0.000	-6.800	0.000
1.000	1.000	78.96	0.000	0.000	BNA3(2)_335_337_L_0					
46 D	19.22	1.2488E-02	20.00	96.11	180.0	96.11	PASSIVE	0.000	-7.000	0.000
1.000	1.000	96.11	0.000	0.000	BNA3(2)_335_337_L_0					
47 D	22.65	1.1786E-02	24.00	113.3	184.0	113.3	PASSIVE	0.000	-7.200	0.000
1.000	1.000	113.3	0.000	0.000	BNA3(2)_335_337_L_0					
48 D	26.08	1.1100E-02	28.00	130.4	188.0	130.4	PASSIVE	0.000	-7.400	0.000
1.000	1.000	130.4	0.000	0.000	BNA3(2)_335_337_L_0					
49 D	29.51	1.0431E-02	32.00	147.6	192.0	147.6	PASSIVE	0.000	-7.600	0.000
1.000	1.000	147.6	0.000	0.000	BNA3(2)_335_337_L_0					
50 D	30.54	9.7807E-03	36.00	152.7	196.0	152.7	V-C	5413.	-7.800	0.000
1.000	1.000	152.7	0.000	0.000	BNA3(2)_335_337_L_0					
51 D	30.23	9.1490E-03	40.00	151.2	200.0	151.2	V-C	5413.	-8.000	0.000
1.000	1.000	151.2	0.000	0.000	BNA3(2)_335_337_L_0					
52 D	29.95	8.5366E-03	44.00	149.8	204.0	149.8	V-C	5413.	-8.200	0.000
1.000	1.000	149.8	0.000	0.000	BNA3(2)_335_337_L_0					
53 D	29.69	7.9439E-03	48.00	148.5	208.0	148.5	V-C	5413.	-8.400	0.000
1.000	1.000	148.5	0.000	0.000	BNA3(2)_335_337_L_0					
54 D	29.46	7.3715E-03	52.00	147.3	212.0	147.3	V-C	5413.	-8.600	0.000
1.000	1.000	147.3	0.000	0.000	BNA3(2)_335_337_L_0					
55 D	29.25	6.8195E-03	56.00	146.3	216.0	146.3	V-C	5413.	-8.800	0.000
1.000	1.000	146.3	0.000	0.000	BNA3(2)_335_337_L_0					
56 D	29.07	6.2881E-03	60.00	145.4	220.0	145.4	V-C	5413.	-9.000	0.000
1.000	1.000	145.4	0.000	0.000	BNA3(2)_335_337_L_0					
57 D	28.91	5.7773E-03	64.00	144.6	224.0	144.6	V-C	5413.	-9.200	0.000
1.000	1.000	144.6	0.000	0.000	BNA3(2)_335_337_L_0					
58 D	28.78	5.2872E-03	68.00	143.9	228.0	143.9	V-C	5413.	-9.400	0.000
1.000	1.000	143.9	0.000	0.000	BNA3(2)_335_337_L_0					
59 D	28.67	4.8176E-03	72.00	143.4	232.0	143.4	V-C	5413.	-9.600	0.000
1.000	1.000	143.4	0.000	0.000	BNA3(2)_335_337_L_0					
60 D	28.59	4.3683E-03	76.00	143.0	236.0	143.0	V-C	5413.	-9.800	0.000
1.000	1.000	143.0	0.000	0.000	BNA3(2)_335_337_L_0					
61 D	28.53	3.9390E-03	80.00	142.7	240.0	142.7	V-C	5413.	-10.000	0.000
1.000	1.000	142.7	0.000	0.000	BNA3(2)_335_337_L_0					
62 D	28.49	3.5294E-03	84.00	142.5	244.0	142.5	V-C	5413.	-10.200	0.000
1.000	1.000	142.5	0.000	0.000	BNA3(2)_335_337_L_0					
63 D	28.48	3.1390E-03	88.00	142.4	248.0	142.4	V-C	5413.	-10.400	0.000
1.000	1.000	142.4	0.000	0.000	BNA3(2)_335_337_L_0					
64 D	28.49	2.7672E-03	92.00	142.4	252.0	142.4	V-C	5413.	-10.600	0.000
1.000	1.000	142.4	0.000	0.000	BNA3(2)_335_337_L_0					
65 D	28.51	2.4135E-03	96.00	142.6	256.0	142.6	V-C	5413.	-10.800	0.000
1.000	1.000	142.6	0.000	0.000	BNA3(2)_335_337_L_0					
66 D	28.56	2.0773E-03	100.0	142.8	260.0	142.8	V-C	5413.	-11.000	0.000
1.000	1.000	142.8	0.000	0.000	BNA3(2)_335_337_L_0					
67 D	28.63	1.7577E-03	104.0	143.1	264.0	143.1	V-C	5413.	-11.200	0.000
1.000	1.000	143.1	0.000	0.000	BNA3(2)_335_337_L_0					
68 D	28.71	1.4540E-03	108.0	143.6	268.0	143.6	V-C	5413.	-11.400	0.000
1.000	1.000	143.6	0.000	0.000	BNA3(2)_335_337_L_0					
69 D	28.81	1.1654E-03	112.0	144.1	272.0	144.1	V-C	5413.	-11.600	0.000
1.000	1.000	144.1	0.000	0.000	BNA3(2)_335_337_L_0					
70 D	28.93	8.9116E-04	116.0	144.7	276.0	144.7	V-C	5413.	-11.800	0.000
1.000	1.000	144.7	0.000	0.000	BNA3(2)_335_337_L_0					
71 D	29.06	6.3033E-04	120.0	145.3	280.0	145.3	V-C	5413.	-12.000	0.000
1.000	1.000	145.3	0.000	0.000	BNA3(2)_335_337_L_0					
72 D	29.21	3.8207E-04	124.0	146.1	284.0	146.1	V-C	5413.	-12.200	0.000
1.000	1.000	146.1	0.000	0.000	BNA3(2)_335_337_L_0					
73 D	29.36	1.4548E-04	128.0	146.8	288.0	147.0	UL-RL	8660.	-12.400	0.000
1.000	1.000	146.8	0.000	0.000	BNA3(2)_335_337_L_0					
74 D	29.39	-8.0332E-05	132.0	146.9	292.0	149.0	UL-RL	8660.	-12.600	0.000
1.000	1.000	146.9	0.000	0.000	BNA3(2)_335_337_L_0					
75 D	29.44	-2.9626E-04	136.0	147.2	296.0	151.0	UL-RL	8660.	-12.800	0.000
1.000	1.000	147.2	0.000	0.000	BNA3(2)_335_337_L_0					
76 D	29.50	-5.0321E-04	140.0	147.5	300.0	153.0	UL-RL	8660.	-13.000	0.000
1.000	1.000	147.5	0.000	0.000	BNA3(2)_335_337_L_0					
77 D	33.33	-7.0207E-04	144.0	166.6	304.0	178.5	UL-RL	1.4334E+04	-13.200	0.000
1.000	1.000	166.6	0.000	0.000	BNA3(3)_336_338_L_0					
78 D	33.27	-8.9371E-04	148.0	166.4	308.0	180.8	UL-RL	1.4334E+04	-13.400	0.000
1.000	1.000	166.4	0.000	0.000	BNA3(3)_336_338_L_0					
79 D	33.24	-1.0790E-03	152.0	166.2	312.0	183.1	UL-RL	1.4334E+04	-13.600	0.000
1.000	1.000	166.2	0.000	0.000	BNA3(3)_336_338_L_0					

80 D	33.22	-1.2587E-03	156.0	166.1	316.0	185.5	UL-RL	1.4334E+04	-13.80	0.000
1.000	1.000	166.1	0.000	0.000	BNA3(3)_336_338_L_0					
81 D	33.22	-1.4337E-03	160.0	166.1	320.0	187.8	UL-RL	1.4334E+04	-14.00	0.000
1.000	1.000	166.1	0.000	0.000	BNA3(3)_336_338_L_0					
82 D	33.23	-1.6047E-03	164.0	166.1	324.0	190.1	UL-RL	1.4334E+04	-14.20	0.000
1.000	1.000	166.1	0.000	0.000	BNA3(3)_336_338_L_0					
83 D	33.25	-1.7723E-03	168.0	166.2	328.0	192.4	UL-RL	1.4334E+04	-14.40	0.000
1.000	1.000	166.2	0.000	0.000	BNA3(3)_336_338_L_0					
84 D	33.27	-1.9373E-03	172.0	166.4	332.0	194.8	UL-RL	1.4334E+04	-14.60	0.000
1.000	1.000	166.4	0.000	0.000	BNA3(3)_336_338_L_0					
85 D	33.30	-2.1001E-03	176.0	166.5	336.0	197.1	UL-RL	1.4334E+04	-14.80	0.000
1.000	1.000	166.5	0.000	0.000	BNA3(3)_336_338_L_0					
86 D	33.34	-2.2614E-03	180.0	166.7	340.0	199.4	UL-RL	1.4334E+04	-15.00	0.000
1.000	1.000	166.7	0.000	0.000	BNA3(3)_336_338_L_0					
87 D	33.37	-2.4216E-03	184.0	166.8	344.0	201.8	UL-RL	1.4334E+04	-15.20	0.000
1.000	1.000	166.8	0.000	0.000	BNA3(3)_336_338_L_0					
88 D	33.39	-2.5811E-03	188.0	166.9	348.0	204.3	UL-RL	1.4334E+04	-15.40	0.000
1.000	1.000	166.9	0.000	0.000	BNA3(3)_336_338_L_0					
89 D	33.40	-2.7401E-03	192.0	167.0	352.0	206.8	UL-RL	1.4334E+04	-15.60	0.000
1.000	1.000	167.0	0.000	0.000	BNA3(3)_336_338_L_0					
90 D	33.42	-2.8989E-03	196.0	167.1	356.0	209.4	UL-RL	1.4334E+04	-15.80	0.000
1.000	1.000	167.1	0.000	0.000	BNA3(3)_336_338_L_0					
91 D	16.72	-3.0577E-03	200.0	167.2	360.0	211.9	UL-RL	1.4334E+04	-16.00	0.000
1.000	1.000	167.2	0.000	0.000	BNA3(3)_336_338_L_0					

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|                PARATIE PLUS 2014 NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Sept23, 2015*                |
|                                                                                                                                            |
|                NewProject.BaseDesignSection_25.Nominal_60                                                                              |
|                Exe Time :29 June 2020    20:30:03                                                                                          |
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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

WallElement_30 :
ELEMENT TYPE 2 NO.OF ELEMENTS. IN THIS GROUP 90
C U R R E N T T I M E I S 4.0000

WALL2D ELEMENT

EL	TA	TB	MA	MB
1	-3.74490E-09	3.74490E-09	-3.72523E-10	8.41112E-10
2	0.48800	-0.48800	-1.50289E-09	9.76000E-02
3	1.4640	-1.4640	-9.76000E-02	0.39040
4	2.9280	-2.9280	-0.39040	0.97600
5	4.8800	-4.8800	-0.97600	1.9520
6	7.3200	-7.3200	-1.9520	3.4160
7	10.248	-10.248	-3.4160	5.4656
8	13.664	-13.664	-5.4656	8.1984
9	17.568	-17.568	-8.1984	11.712
10	21.960	-21.960	-11.712	16.104
11	26.840	-26.840	-16.104	21.472
12	32.209	-32.209	-21.472	27.914
13	38.065	-38.065	-27.914	35.527
14	44.409	-44.409	-35.527	44.409
15	51.242	-51.242	-44.409	54.657
16	-29.087	29.087	-54.657	48.840
17	-21.278	21.278	-48.840	44.584
18	-12.981	12.981	-44.584	41.988
19	-4.1965	4.1965	-41.988	41.149
20	5.0765	-5.0765	-41.149	42.164
21	9.8281	-9.8281	-42.164	44.130
22	14.846	-14.846	-44.130	47.099
23	20.131	-20.131	-47.099	51.125
24	25.682	-25.682	-51.125	56.261
25	31.500	-31.500	-56.261	62.561
26	37.584	-37.584	-62.561	70.078
27	43.935	-43.935	-70.078	78.865
28	50.552	-50.552	-78.865	88.975
29	57.436	-57.436	-88.975	100.46
30	64.586	-64.586	-100.46	113.38
31	72.004	-72.004	-113.38	127.78
32	79.687	-79.687	-127.78	143.72
33	87.638	-87.638	-143.72	161.25
34	95.855	-95.855	-161.25	180.42
35	104.34	-104.34	-180.42	201.28
36	113.09	-113.09	-201.28	223.90
37	122.11	-122.11	-223.90	248.32
38	131.39	-131.39	-248.32	274.60
39	140.94	-140.94	-274.60	302.79
40	150.76	-150.76	-302.79	332.94
41	160.84	-160.84	-332.94	365.11
42	165.69	-165.69	-365.11	398.25
43	167.38	-167.38	-398.25	431.72
44	165.90	-165.90	-431.72	464.90
45	161.26	-161.26	-464.90	497.15
46	153.45	-153.45	-497.15	527.84
47	142.48	-142.48	-527.84	556.34
48	128.35	-128.35	-556.34	582.01
49	111.06	-111.06	-582.01	604.22
50	93.000	-93.000	-604.22	622.82
51	75.518	-75.518	-622.82	637.93
52	58.586	-58.586	-637.93	649.64
53	42.179	-42.179	-649.64	658.08
54	26.271	-26.271	-658.08	663.33
55	10.838	-10.838	-663.33	665.50
56	-4.1466	4.1466	-665.50	664.67
57	-18.707	18.707	-664.67	660.93
58	-32.869	32.869	-660.93	654.36
59	-46.655	46.655	-654.36	645.02
60	-60.092	60.092	-645.02	633.01
61	-73.201	73.201	-633.01	618.37
62	-85.848	85.848	-618.37	601.20
63	-97.059	97.059	-601.20	581.79
64	-106.91	106.91	-581.79	560.40
65	-115.45	115.45	-560.40	537.31
66	-122.77	122.77	-537.31	512.76
67	-128.92	128.92	-512.76	486.97
68	-133.97	133.97	-486.97	460.18
69	-137.96	137.96	-460.18	432.59
70	-140.95	140.95	-432.59	404.40

71	-143.00	143.00	-404.40	375.80
72	-144.25	144.25	-375.80	346.95
73	-144.76	144.76	-346.95	318.00
74	-144.44	144.44	-318.00	289.11
75	-143.31	143.31	-289.11	260.45
76	-141.43	141.43	-260.45	232.16
77	-137.44	137.44	-232.16	204.68
78	-132.41	132.41	-204.68	178.19
79	-126.48	126.48	-178.19	152.90
80	-119.66	119.66	-152.90	128.97
81	-112.00	112.00	-128.97	106.57
82	-103.51	103.51	-106.57	85.865
83	-94.231	94.231	-85.865	67.018
84	-84.173	84.173	-67.018	50.184
85	-73.347	73.347	-50.184	35.514
86	-61.759	61.759	-35.514	23.163
87	-49.412	49.412	-23.163	13.280
88	-36.288	36.288	-13.280	6.0226
89	-22.391	22.391	-6.0226	1.5443
90	-7.7212	7.7212	-1.5443	-5.62537E-11


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|          PARATIE PLUS 2014 NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Sept23, 2015*          |
|                                                                                                    |
|                               NewProject.BaseDesignSection_25.Nominal_60                            |
|                               Exe Time :29 June 2020      20:30:03                                |
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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 . 4

Tieback_341 :
 ELEMENT TYPE 6 NO.OF ELEMENTS. IN THIS GROUP 1
 C U R R E N T T I M E I S 4.0000

POST-TENSION 2D-BOUNDARY ELEMENT

	EL	FORCE	d0	EDISPL	pl. eps	K	-ve limit	+ve limit	
ANCHOR	1	93.274	-6.63295E-04	3.02547E-02	0.0000	1219.8	0.0000	0.0000	ELASTIC ORIGINAL YOUNG MODU-
LUS									

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+-----+
|          PARATIE PLUS 2014 NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Sept23, 2015*          |
|                                                                                                    |
|                               NewProject.BaseDesignSection_25.Nominal_60                            |
|                               Exe Time :29 June 2020      20:30:03                                |
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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 . 5

Tieback_342 :
ELEMENT TYPE 6 NO.OF ELEMENTS. IN THIS GROUP 1
C U R R E N T T I M E I S 4.0000

POST-TENSION 2D-BOUNDARY ELEMENT

EL	FORCE	d0	EDISPL	pl. eps	K	-ve limit	+ve limit
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***** NO ONE ELEMENT ACTIVE AT CURRENT STEP *****

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ITER    0  RNORM = 0.000      RMNORM= 0.000
         RINORM=0.1626E+07   RIMNOR=0.2189E+08
         RENORM= 2726.       REMNOR=0.5478E-17   RATIO =0.4094E-01   TOLER =0.1000E-03   NOT CONVERGED
         RFMAX = 167.4       RMMAX = 665.5
         RTSMAL=0.1000E-02   RMSMAL=0.1000E-02
         RDT =0.1626E+07     RDR =0.2189E+08
         RATIOT=0.4094E-01   RATIO= 0.000
         MAX UN=0.2012E-07   IEQ=    33 NODE       17 DOF    1   Y-DISPL.F
         MIN UN=-52.21       IEQ=    71 NODE       36 DOF    1   Y-DISPL.F
         NO. OF CONTACT CONSTRAINT VIOLATIONS                            0

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ITER    2  RNORM = 0.000      RMNORM= 0.000
         RINORM=0.1626E+07   RIMNOR=0.2189E+08
         RENORM=0.2678E-14   REMNOR=0.4702E-17   RATIO =0.4058E-10   TOLER =0.1000E-03   CONVERGED !
         RFMAX = 167.4       RMMAX = 665.5
         RTSMAL=0.1000E-02   RMSMAL=0.1000E-02
         RDT =0.1626E+07     RDR =0.2189E+08
         RATIOT=0.4058E-10   RATIO= 0.000
         MAX UN=0.1687E-07   IEQ=    25 NODE       13 DOF    1   Y-DISPL.F
         MIN UN=-.1855E-07   IEQ=    27 NODE       14 DOF    1   Y-DISPL.F
         NO. OF CONTACT CONSTRAINT VIOLATIONS                            0

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|                PARATIE PLUS 2014 NLS ENGINE RELEASE  2016  FULL VERSION  *Build date: Sept23, 2015*                |
|                                                                                                                                            |
|                                                                                                                                            |
|                NewProject.BaseDesignSection_25.Nominal_60                                                                              |
|                Exe Time :29 June 2020      20:30:03                                                                              |
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New Project
SOLUTION REACHED USING 2 ITERATIONS ON 40

PRINT OUT FOR TIME STEP 5 (AT TIME 5.000)

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

	Y-DISPL.F (02)	X-ROT. F (04)	(
1	4.9941609E-02	-4.4026151E-03	
2	4.9061086E-02	-4.4026151E-03	
3	4.8180564E-02	-4.4026046E-03	
4	4.7300047E-02	-4.4025550E-03	
5	4.6419547E-02	-4.4024223E-03	
6	4.5539086E-02	-4.4021474E-03	
7	4.4658702E-02	-4.4016557E-03	
8	4.3778445E-02	-4.4008575E-03	
9	4.2898387E-02	-4.3996478E-03	
10	4.2018621E-02	-4.3979062E-03	
11	4.1139268E-02	-4.3954972E-03	
12	4.0260477E-02	-4.3922697E-03	
13	3.9382426E-02	-4.3880578E-03	
14	3.8505332E-02	-4.3826799E-03	
15	3.7629445E-02	-4.3759394E-03	
16	3.6755061E-02	-4.3676241E-03	
17	3.5882426E-02	-4.3588615E-03	
18	3.5011472E-02	-4.3507634E-03	
19	3.4142093E-02	-4.3430720E-03	
20	3.3274235E-02	-4.3355143E-03	
21	3.2407898E-02	-4.3278018E-03	
22	3.1543140E-02	-4.3196949E-03	
23	3.0680059E-02	-4.3110055E-03	
24	2.9818790E-02	-4.3015370E-03	
25	2.8959510E-02	-4.2910841E-03	
26	2.8102436E-02	-4.2794329E-03	
27	2.7247827E-02	-4.2663608E-03	
28	2.6395998E-02	-4.2516369E-03	
29	2.5547298E-02	-4.2350218E-03	
30	2.4702132E-02	-4.2162673E-03	
31	2.3860955E-02	-4.1951173E-03	
32	2.3024266E-02	-4.1713068E-03	
33	2.2192628E-02	-4.1445631E-03	
34	2.1366655E-02	-4.1146050E-03	
35	2.0547020E-02	-4.0811434E-03	
36	1.9734451E-02	-4.0438811E-03	
37	1.8929687E-02	-4.0033241E-03	
38	1.8133308E-02	-3.9599707E-03	
39	1.7345910E-02	-3.9135006E-03	
40	1.6568141E-02	-3.8635856E-03	
41	1.5800728E-02	-3.8098905E-03	
42	1.5044460E-02	-3.7520726E-03	
43	1.4300192E-02	-3.6898569E-03	
44	1.3568824E-02	-3.6230896E-03	
45	1.2851267E-02	-3.5517163E-03	
46	1.2148442E-02	-3.4757838E-03	
47	1.1461248E-02	-3.3954388E-03	
48	1.0790544E-02	-3.3109283E-03	
49	1.0137131E-02	-3.2225995E-03	
50	9.5017321E-03	-3.1309004E-03	
51	8.8849647E-03	-3.0363409E-03	
52	8.2873521E-03	-2.9394369E-03	
53	7.7093129E-03	-2.8406884E-03	
54	7.1511673E-03	-2.7405807E-03	
55	6.6131424E-03	-2.6395858E-03	
56	6.0953644E-03	-2.5381608E-03	
57	5.5978770E-03	-2.4367518E-03	
58	5.1206336E-03	-2.3357928E-03	
59	4.6635017E-03	-2.2357066E-03	
60	4.2262674E-03	-2.1369063E-03	
61	3.8086289E-03	-2.0397939E-03	
62	3.4102013E-03	-1.9447616E-03	
63	3.0305682E-03	-1.8522019E-03	
64	2.6691519E-03	-1.7624585E-03	
65	2.3253758E-03	-1.6758493E-03	
66	1.9985850E-03	-1.5926476E-03	
67	1.6880739E-03	-1.5130886E-03	
68	1.3930935E-03	-1.4373715E-03	
69	1.1128582E-03	-1.3656615E-03	
70	8.4655289E-04	-1.2980912E-03	
71	5.9333894E-04	-1.2347626E-03	
72	3.5236024E-04	-1.1757484E-03	
73	1.2274882E-04	-1.1210955E-03	
74	-9.6370307E-05	-1.0708277E-03	

75 -3.0587463E-04 -1.0249454E-03
76 -5.0663921E-04 -9.8342428E-04
77 -6.9953192E-04 -9.4621677E-04
78 -8.8540741E-04 -9.1323159E-04
79 -1.0650968E-03 -8.8432978E-04
80 -1.2394003E-03 -8.5934325E-04
81 -1.4090821E-03 -8.3807727E-04
82 -1.5748646E-03 -8.2031128E-04
83 -1.7374236E-03 -8.0579979E-04
84 -1.8973835E-03 -7.9427327E-04
85 -2.0553124E-03 -7.8543878E-04
86 -2.2117174E-03 -7.7898033E-04
87 -2.3670403E-03 -7.7455913E-04
88 -2.5216528E-03 -7.7181375E-04
89 -2.6758519E-03 -7.7035987E-04
90 -2.8298557E-03 -7.6979004E-04
91 -2.9838059E-03 -7.6967376E-04

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|                PARATIE PLUS 2014 NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Sept23, 2015*                |
|                                                                                                                    |
|                NewProject.BaseDesignSection_25.Nominal_60                                                         |
|                Exe Time :29 June 2020      20:30:03                                                                |
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New Project

STRESS RESULTS FOR GROUP NO. 1

0_L :
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 91
CURRENT TIME IS 5.0000

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 LAYER	MAX-H-P	STATE	STIFFNESS	Z-LEVEL	PORE	E FAC-
1 D	0.000	-4.9942E-02	0.000	0.000	0.000	0.000	PASSIVE	0.000	2.000	0.000	
1.000	1.000	0.000	0.000	0.000	FRANA_334_8_L_0						
2 D	0.6758	-4.9061E-02	4.000	3.379	4.000	6.902	UL-RL	2880.	1.800	0.000	
1.000	1.000	3.379	0.000	0.000	FRANA_334_8_L_0						
3 D	1.168	-4.8181E-02	8.000	5.839	8.000	9.467	UL-RL	2880.	1.600	0.000	
1.000	1.000	5.839	0.000	0.000	FRANA_334_8_L_0						
4 D	1.660	-4.7300E-02	12.00	8.298	12.00	12.03	UL-RL	2880.	1.400	0.000	
1.000	1.000	8.298	0.000	0.000	FRANA_334_8_L_0						
5 D	2.151	-4.6420E-02	16.00	10.76	16.00	14.60	UL-RL	2880.	1.200	0.000	
1.000	1.000	10.76	0.000	0.000	FRANA_334_8_L_0						
6 D	2.643	-4.5539E-02	20.00	13.22	20.00	17.16	UL-RL	2880.	1.000	0.000	
1.000	1.000	13.22	0.000	0.000	FRANA_334_8_L_0						
7 D	3.135	-4.4659E-02	24.00	15.68	24.00	19.72	UL-RL	2880.	0.8000	0.000	
1.000	1.000	15.68	0.000	0.000	FRANA_334_8_L_0						
8 D	3.627	-4.3778E-02	28.00	18.14	28.00	22.29	UL-RL	2880.	0.6000	0.000	
1.000	1.000	18.14	0.000	0.000	FRANA_334_8_L_0						
9 D	4.119	-4.2898E-02	32.00	20.59	32.00	24.85	UL-RL	2880.	0.4000	0.000	
1.000	1.000	20.59	0.000	0.000	FRANA_334_8_L_0						
10 D	4.611	-4.2019E-02	36.00	23.05	36.00	27.76	UL-RL	2880.	0.2000	0.000	
1.000	1.000	23.05	0.000	0.000	FRANA_334_8_L_0						
11 D	5.103	-4.1139E-02	40.00	25.51	40.00	30.84	UL-RL	2880.	-1.4901E-07	0.000	
1.000	1.000	25.51	0.000	0.000	FRANA_334_8_L_0						
12 D	5.594	-4.0260E-02	44.00	27.97	44.00	33.92	UL-RL	2880.	-0.2000	0.000	
1.000	1.000	27.97	0.000	0.000	FRANA_334_8_L_0						
13 D	6.086	-3.9382E-02	48.00	30.43	48.00	37.01	UL-RL	2880.	-0.4000	0.000	
1.000	1.000	30.43	0.000	0.000	FRANA_334_8_L_0						
14 D	6.578	-3.8505E-02	52.00	32.89	52.00	40.09	UL-RL	2880.	-0.6000	0.000	
1.000	1.000	32.89	0.000	0.000	FRANA_334_8_L_0						
15 D	7.070	-3.7629E-02	56.00	35.35	56.00	43.17	UL-RL	2880.	-0.8000	0.000	
1.000	1.000	35.35	0.000	0.000	FRANA_334_8_L_0						
16 D	7.561	-3.6755E-02	60.00	37.81	60.00	46.25	UL-RL	2880.	-1.000	0.000	
1.000	1.000	37.81	0.000	0.000	FRANA_334_8_L_0						
17 D	8.053	-3.5882E-02	64.01	40.26	64.01	49.34	UL-RL	2880.	-1.200	0.000	
1.000	1.000	40.26	0.000	0.000	FRANA_334_8_L_0						
18 D	8.544	-3.5011E-02	68.01	42.72	68.01	52.42	UL-RL	2880.	-1.400	0.000	
1.000	1.000	42.72	0.000	0.000	FRANA_334_8_L_0						
19 D	9.036	-3.4142E-02	72.01	45.18	72.01	55.50	UL-RL	2880.	-1.600	0.000	
1.000	1.000	45.18	0.000	0.000	FRANA_334_8_L_0						
20 D	9.527	-3.3274E-02	76.01	47.64	76.01	58.58	UL-RL	2880.	-1.800	0.000	
1.000	1.000	47.64	0.000	0.000	FRANA_334_8_L_0						
21 D	5.911	-3.2408E-02	80.01	29.55	80.01	41.02	UL-RL	1.2990E+04	-2.000	0.000	
1.000	1.000	29.55	0.000	0.000	BNA3(2)_335_337_L_0						
22 D	6.190	-3.1543E-02	84.01	30.95	84.01	43.07	UL-RL	1.2990E+04	-2.200	0.000	
1.000	1.000	30.95	0.000	0.000	BNA3(2)_335_337_L_0						
23 D	6.469	-3.0680E-02	88.01	32.34	88.01	45.12	UL-RL	1.2990E+04	-2.400	0.000	
1.000	1.000	32.34	0.000	0.000	BNA3(2)_335_337_L_0						
24 D	6.747	-2.9819E-02	92.02	33.73	92.02	47.17	UL-RL	1.2990E+04	-2.600	0.000	
1.000	1.000	33.73	0.000	0.000	BNA3(2)_335_337_L_0						
25 D	7.023	-2.8960E-02	96.02	35.12	96.02	49.22	UL-RL	1.2990E+04	-2.800	0.000	
1.000	1.000	35.12	0.000	0.000	BNA3(2)_335_337_L_0						
26 D	7.299	-2.8102E-02	100.0	36.50	100.0	51.26	UL-RL	1.2990E+04	-3.000	0.000	
1.000	1.000	36.50	0.000	0.000	BNA3(2)_335_337_L_0						
27 D	7.573	-2.7248E-02	104.0	37.87	104.0	53.31	UL-RL	1.2990E+04	-3.200	0.000	
1.000	1.000	37.87	0.000	0.000	BNA3(2)_335_337_L_0						
28 D	7.846	-2.6396E-02	108.0	39.23	108.0	55.36	UL-RL	1.2990E+04	-3.400	0.000	
1.000	1.000	39.23	0.000	0.000	BNA3(2)_335_337_L_0						
29 D	8.117	-2.5547E-02	112.0	40.59	112.0	57.41	UL-RL	1.2990E+04	-3.600	0.000	
1.000	1.000	40.59	0.000	0.000	BNA3(2)_335_337_L_0						
30 D	8.386	-2.4702E-02	116.0	41.93	116.0	59.45	UL-RL	1.2990E+04	-3.800	0.000	
1.000	1.000	41.93	0.000	0.000	BNA3(2)_335_337_L_0						
31 D	8.653	-2.3861E-02	120.0	43.26	120.0	61.50	UL-RL	1.2990E+04	-4.000	0.000	
1.000	1.000	43.26	0.000	0.000	BNA3(2)_335_337_L_0						
32 D	8.917	-2.3024E-02	124.0	44.59	124.0	63.54	UL-RL	1.2990E+04	-4.200	0.000	
1.000	1.000	44.59	0.000	0.000	BNA3(2)_335_337_L_0						
33 D	9.179	-2.2193E-02	128.0	45.89	128.0	65.59	UL-RL	1.2990E+04	-4.400	0.000	
1.000	1.000	45.89	0.000	0.000	BNA3(2)_335_337_L_0						

34	D	9.437	-2.1367E-02	132.0	47.19	132.0	67.63	UL-RL	1.2990E+04	-4.600	0.000
1.000		1.000		47.19	0.000						
35	D	9.692	-2.0547E-02	136.0	48.46	136.0	69.68	UL-RL	1.2990E+04	-4.800	0.000
1.000		1.000		48.46	0.000						
36	D	9.944	-1.9734E-02	140.1	49.72	140.1	71.72	UL-RL	1.2990E+04	-5.000	0.000
1.000		1.000		49.72	0.000						
37	D	10.19	-1.8930E-02	144.1	50.95	144.1	73.76	UL-RL	1.2990E+04	-5.200	0.000
1.000		1.000		50.95	0.000						
38	D	10.43	-1.8133E-02	148.1	52.17	148.1	75.81	UL-RL	1.2990E+04	-5.400	0.000
1.000		1.000		52.17	0.000						
39	D	10.67	-1.7346E-02	152.1	53.37	152.1	77.85	UL-RL	1.2990E+04	-5.600	0.000
1.000		1.000		53.37	0.000						
40	D	10.91	-1.6568E-02	156.1	54.56	156.1	79.89	UL-RL	1.2990E+04	-5.800	0.000
1.000		1.000		54.56	0.000						
41	D	11.15	-1.5801E-02	160.1	55.74	160.1	81.93	UL-RL	1.2990E+04	-6.000	0.000
1.000		1.000		55.74	0.000						
42	D	11.38	-1.5044E-02	164.1	56.90	164.1	83.97	UL-RL	1.2990E+04	-6.200	0.000
1.000		1.000		56.90	0.000						
43	D	11.61	-1.4300E-02	168.1	58.06	168.1	86.01	UL-RL	1.2990E+04	-6.400	0.000
1.000		1.000		58.06	0.000						
44	D	11.84	-1.3569E-02	172.1	59.21	172.1	88.05	UL-RL	1.2990E+04	-6.600	0.000
1.000		1.000		59.21	0.000						
45	D	12.07	-1.2851E-02	176.1	60.36	176.1	90.09	UL-RL	1.2990E+04	-6.800	0.000
1.000		1.000		60.36	0.000						
46	D	12.30	-1.2148E-02	180.1	61.50	180.1	92.61	UL-RL	1.2990E+04	-7.000	0.000
1.000		1.000		61.50	0.000						
47	D	12.53	-1.1461E-02	184.1	62.64	184.1	95.29	UL-RL	1.2990E+04	-7.200	0.000
1.000		1.000		62.64	0.000						
48	D	12.75	-1.0791E-02	188.1	63.77	188.1	97.90	UL-RL	1.2990E+04	-7.400	0.000
1.000		1.000		63.77	0.000						
49	D	12.98	-1.0137E-02	192.1	64.91	192.1	100.4	UL-RL	1.2990E+04	-7.600	0.000
1.000		1.000		64.91	0.000						
50	D	13.21	-9.5017E-03	196.1	66.05	196.1	102.9	UL-RL	1.2990E+04	-7.800	0.000
1.000		1.000		66.05	0.000						
51	D	13.44	-8.8850E-03	200.1	67.19	200.1	105.3	UL-RL	1.2990E+04	-8.000	0.000
1.000		1.000		67.19	0.000						
52	D	13.67	-8.2874E-03	204.1	68.33	204.1	107.7	UL-RL	1.2990E+04	-8.200	0.000
1.000		1.000		68.33	0.000						
53	D	13.90	-7.7093E-03	208.2	69.48	208.2	110.0	UL-RL	1.2990E+04	-8.400	0.000
1.000		1.000		69.48	0.000						
54	D	14.13	-7.1512E-03	212.2	70.63	212.2	112.2	UL-RL	1.2990E+04	-8.600	0.000
1.000		1.000		70.63	0.000						
55	D	14.36	-6.6131E-03	216.2	71.78	216.2	114.4	UL-RL	1.2990E+04	-8.800	0.000
1.000		1.000		71.78	0.000						
56	D	14.59	-6.0954E-03	220.2	72.94	220.2	116.7	UL-RL	1.2990E+04	-9.000	0.000
1.000		1.000		72.94	0.000						
57	D	14.82	-5.5979E-03	224.2	74.10	224.2	118.9	UL-RL	1.2990E+04	-9.200	0.000
1.000		1.000		74.10	0.000						
58	D	15.05	-5.1206E-03	228.2	75.27	228.2	121.0	UL-RL	1.2990E+04	-9.400	0.000
1.000		1.000		75.27	0.000						
59	D	15.29	-4.6635E-03	232.2	76.44	232.2	123.1	UL-RL	1.2990E+04	-9.600	0.000
1.000		1.000		76.44	0.000						
60	D	15.52	-4.2263E-03	236.2	77.62	236.2	125.2	UL-RL	1.2990E+04	-9.800	0.000
1.000		1.000		77.62	0.000						
61	D	15.76	-3.8086E-03	240.2	78.80	240.2	127.2	UL-RL	1.2990E+04	-10.000	0.000
1.000		1.000		78.80	0.000						
62	D	16.16	-3.4102E-03	244.2	80.79	244.2	129.3	UL-RL	1.2990E+04	-10.200	0.000
1.000		1.000		80.79	0.000						
63	D	17.55	-3.0306E-03	248.2	87.75	248.2	131.2	UL-RL	1.2990E+04	-10.400	0.000
1.000		1.000		87.75	0.000						
64	D	18.90	-2.6692E-03	252.3	94.48	252.3	133.2	UL-RL	1.2990E+04	-10.600	0.000
1.000		1.000		94.48	0.000						
65	D	20.19	-2.3254E-03	256.3	101.0	256.3	135.1	UL-RL	1.2990E+04	-10.800	0.000
1.000		1.000		101.0	0.000						
66	D	21.45	-1.9986E-03	260.3	107.2	260.3	137.0	UL-RL	1.2990E+04	-11.000	0.000
1.000		1.000		107.2	0.000						
67	D	22.66	-1.6881E-03	264.3	113.3	264.3	138.9	UL-RL	1.2990E+04	-11.200	0.000
1.000		1.000		113.3	0.000						
68	D	23.83	-1.3931E-03	268.3	119.1	268.3	140.8	UL-RL	1.2990E+04	-11.400	0.000
1.000		1.000		119.1	0.000						
69	D	24.96	-1.1129E-03	272.3	124.8	272.3	142.7	UL-RL	1.2990E+04	-11.600	0.000
1.000		1.000		124.8	0.000						
70	D	26.05	-8.4655E-04	276.3	130.3	276.3	144.5	UL-RL	1.2990E+04	-11.800	0.000
1.000		1.000		130.3	0.000						
71	D	27.12	-5.9334E-04	280.3	135.6	280.3	146.4	UL-RL	1.2990E+04	-12.000	0.000
1.000		1.000		135.6	0.000						
72	D	28.03	-3.5236E-04	284.4	140.2	284.4	149.1	UL-RL	1.2990E+04	-12.200	0.000
1.000		1.000		140.2	0.000						
73	D	28.90	-1.2275E-04	288.4	144.5	288.4	152.0	UL-RL	1.2990E+04	-12.400	0.000
1.000		1.000		144.5	0.000						
74	D	29.75	9.6370E-05	292.4	148.8	292.4	154.9	UL-RL	1.2990E+04	-12.600	0.000
1.000		1.000		148.8	0.000						
75	D	30.59	3.0587E-04	296.4	152.9	296.4	157.6	UL-RL	1.2990E+04	-12.800	0.000
1.000		1.000		152.9	0.000						
76	D	31.40	5.0664E-04	300.4	157.0	300.4	160.4	UL-RL	1.2990E+04	-13.000	0.000
1.000		1.000		157.0	0.000						
77	D	37.30	6.9953E-04	304.4	186.5	304.4	189.3	UL-RL	1.7659E+04	-13.200	0.000
1.000		1.000		186.5	0.000						
78	D	38.27	8.8541E-04	308.4	191.4	308.4	192.6	UL-RL	1.7659E+04	-13.400	0.000
1.000		1.000		191.4	0.000						
79	D	39.13	1.0651E-03	312.4	195.6	312.4	196.6	UL-RL	1.7659E+04	-13.600	0.000
1.000		1.000		195.6	0.000						

80 D	39.97	1.2394E-03	316.5	199.8	316.5	200.6	UL-RL	1.7659E+04	-13.80	0.000
1.000	1.000	199.8	0.000	0.000	BNA3(3)_336_338_L_0					
81 D	40.80	1.4091E-03	320.5	204.0	320.5	204.6	UL-RL	1.7659E+04	-14.00	0.000
1.000	1.000	204.0	0.000	0.000	BNA3(3)_336_338_L_0					
82 D	41.61	1.5749E-03	324.5	208.0	324.5	208.6	UL-RL	1.7659E+04	-14.20	0.000
1.000	1.000	208.0	0.000	0.000	BNA3(3)_336_338_L_0					
83 D	42.40	1.7374E-03	328.5	212.0	328.5	212.6	UL-RL	1.7659E+04	-14.40	0.000
1.000	1.000	212.0	0.000	0.000	BNA3(3)_336_338_L_0					
84 D	43.19	1.8974E-03	332.5	215.9	332.5	216.6	UL-RL	1.7659E+04	-14.60	0.000
1.000	1.000	215.9	0.000	0.000	BNA3(3)_336_338_L_0					
85 D	43.97	2.0553E-03	336.5	219.8	336.5	220.6	UL-RL	1.7659E+04	-14.80	0.000
1.000	1.000	219.8	0.000	0.000	BNA3(3)_336_338_L_0					
86 D	44.75	2.2117E-03	340.5	223.7	340.5	224.6	UL-RL	1.7659E+04	-15.00	0.000
1.000	1.000	223.7	0.000	0.000	BNA3(3)_336_338_L_0					
87 D	45.52	2.3670E-03	344.6	227.6	344.6	228.6	UL-RL	1.7659E+04	-15.20	0.000
1.000	1.000	227.6	0.000	0.000	BNA3(3)_336_338_L_0					
88 D	46.30	2.5217E-03	348.6	231.5	348.6	232.5	UL-RL	1.7659E+04	-15.40	0.000
1.000	1.000	231.5	0.000	0.000	BNA3(3)_336_338_L_0					
89 D	47.07	2.6759E-03	352.6	235.4	352.6	236.5	UL-RL	1.7659E+04	-15.60	0.000
1.000	1.000	235.4	0.000	0.000	BNA3(3)_336_338_L_0					
90 D	47.85	2.8299E-03	356.6	239.2	356.6	240.4	UL-RL	1.7659E+04	-15.80	0.000
1.000	1.000	239.2	0.000	0.000	BNA3(3)_336_338_L_0					
91 D	24.31	2.9838E-03	360.6	243.1	360.6	244.4	UL-RL	1.7659E+04	-16.00	0.000
1.000	1.000	243.1	0.000	0.000	BNA3(3)_336_338_L_0					

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|                PARATIE PLUS 2014 NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Sept23, 2015*                |
|                                                                                                            |
|                NewProject.BaseDesignSection_25.Nominal_60                                             |
|                Exe Time :29 June 2020      20:30:03                                                    |
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New Project

STRESS RESULTS FOR GROUP NO. 2

0_R :
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 91
CURRENT TIME IS 5.0000

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 LAYER	MAX-H-P	STATE	STIFFNESS	Z-LEVEL	PORE	E FAC-
1	0.000	--	--	--	--	--	REMOVED	--	2.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
2	0.000	--	--	--	--	--	REMOVED	--	1.800	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
3	0.000	--	--	--	--	--	REMOVED	--	1.600	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
4	0.000	--	--	--	--	--	REMOVED	--	1.400	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
5	0.000	--	--	--	--	--	REMOVED	--	1.200	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
6	0.000	--	--	--	--	--	REMOVED	--	1.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
7	0.000	--	--	--	--	--	REMOVED	--	0.8000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
8	0.000	--	--	--	--	--	REMOVED	--	0.6000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
9	0.000	--	--	--	--	--	REMOVED	--	0.4000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
10	0.000	--	--	--	--	--	REMOVED	--	0.2000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
11	0.000	--	--	--	--	--	REMOVED	--	-1.4901E-07	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
12	0.000	--	--	--	--	--	REMOVED	--	-0.2000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
13	0.000	--	--	--	--	--	REMOVED	--	-0.4000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
14	0.000	--	--	--	--	--	REMOVED	--	-0.6000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
15	0.000	--	--	--	--	--	REMOVED	--	-0.8000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
16	0.000	--	--	--	--	--	REMOVED	--	-1.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
17	0.000	--	--	--	--	--	REMOVED	--	-1.200	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
18	0.000	--	--	--	--	--	REMOVED	--	-1.400	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
19	0.000	--	--	--	--	--	REMOVED	--	-1.600	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
20	0.000	--	--	--	--	--	REMOVED	--	-1.800	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
21	0.000	--	--	--	--	--	REMOVED	--	-2.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
22	0.000	--	--	--	--	--	REMOVED	--	-2.200	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
23	0.000	--	--	--	--	--	REMOVED	--	-2.400	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
24	0.000	--	--	--	--	--	REMOVED	--	-2.600	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
25	0.000	--	--	--	--	--	REMOVED	--	-2.800	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
26	0.000	--	--	--	--	--	REMOVED	--	-3.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
27	0.000	--	--	--	--	--	REMOVED	--	-3.200	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
28	0.000	--	--	--	--	--	REMOVED	--	-3.400	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
29	0.000	--	--	--	--	--	REMOVED	--	-3.600	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
30	0.000	--	--	--	--	--	REMOVED	--	-3.800	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
31	0.000	--	--	--	--	--	REMOVED	--	-4.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
32	0.000	--	--	--	--	--	REMOVED	--	-4.200	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
33	0.000	--	--	--	--	--	REMOVED	--	-4.400	0.000	
1.000	1.000	0.000	0.000	0.000	not available						

34	0.000	--	--	--	--	--	REMOVED	--	-4.600	0.000
1.000	1.000	0.000	0.000	0.000	not available					
35	0.000	--	--	--	--	--	REMOVED	--	-4.800	0.000
1.000	1.000	0.000	0.000	0.000	not available					
36	0.000	--	--	--	--	--	REMOVED	--	-5.000	0.000
1.000	1.000	0.000	0.000	0.000	not available					
37	0.000	--	--	--	--	--	REMOVED	--	-5.200	0.000
1.000	1.000	0.000	0.000	0.000	not available					
38	0.000	--	--	--	--	--	REMOVED	--	-5.400	0.000
1.000	1.000	0.000	0.000	0.000	not available					
39	0.000	--	--	--	--	--	REMOVED	--	-5.600	0.000
1.000	1.000	0.000	0.000	0.000	not available					
40	0.000	--	--	--	--	--	REMOVED	--	-5.800	0.000
1.000	1.000	0.000	0.000	0.000	not available					
41	0.000	--	--	--	--	--	REMOVED	--	-6.000	0.000
1.000	1.000	0.000	0.000	0.000	not available					
42 D	4.814	1.5044E-02	4.000	24.07	164.0	87.52	UL-RL	8660.	-6.200	0.000
1.000	1.000	24.07	0.000	0.000	BNA3(2)_335_337_L_0					
43 D	8.268	1.4300E-02	8.000	41.34	168.0	88.72	UL-RL	8660.	-6.400	0.000
1.000	1.000	41.34	0.000	0.000	BNA3(2)_335_337_L_0					
44 D	11.72	1.3569E-02	12.00	58.62	172.0	89.98	UL-RL	8660.	-6.600	0.000
1.000	1.000	58.62	0.000	0.000	BNA3(2)_335_337_L_0					
45 D	15.18	1.2851E-02	16.00	75.89	176.0	91.35	UL-RL	8660.	-6.800	0.000
1.000	1.000	75.89	0.000	0.000	BNA3(2)_335_337_L_0					
46 D	18.63	1.2148E-02	20.00	93.17	180.0	96.11	UL-RL	8660.	-7.000	0.000
1.000	1.000	93.17	0.000	0.000	BNA3(2)_335_337_L_0					
47 D	22.09	1.1461E-02	24.00	110.5	184.0	113.3	UL-RL	8660.	-7.200	0.000
1.000	1.000	110.5	0.000	0.000	BNA3(2)_335_337_L_0					
48 D	25.55	1.0791E-02	28.00	127.7	188.0	130.4	UL-RL	8660.	-7.400	0.000
1.000	1.000	127.7	0.000	0.000	BNA3(2)_335_337_L_0					
49 D	29.00	1.0137E-02	32.00	145.0	192.0	147.6	UL-RL	8660.	-7.600	0.000
1.000	1.000	145.0	0.000	0.000	BNA3(2)_335_337_L_0					
50 D	30.06	9.5017E-03	36.00	150.3	196.0	152.7	UL-RL	8660.	-7.800	0.000
1.000	1.000	150.3	0.000	0.000	BNA3(2)_335_337_L_0					
51 D	29.78	8.8850E-03	40.00	148.9	200.0	151.2	UL-RL	8660.	-8.000	0.000
1.000	1.000	148.9	0.000	0.000	BNA3(2)_335_337_L_0					
52 D	29.52	8.2874E-03	44.00	147.6	204.0	149.8	UL-RL	8660.	-8.200	0.000
1.000	1.000	147.6	0.000	0.000	BNA3(2)_335_337_L_0					
53 D	29.29	7.7093E-03	48.00	146.4	208.0	148.5	UL-RL	8660.	-8.400	0.000
1.000	1.000	146.4	0.000	0.000	BNA3(2)_335_337_L_0					
54 D	29.08	7.1512E-03	52.00	145.4	212.0	147.3	UL-RL	8660.	-8.600	0.000
1.000	1.000	145.4	0.000	0.000	BNA3(2)_335_337_L_0					
55 D	28.90	6.6131E-03	56.00	144.5	216.0	146.3	UL-RL	8660.	-8.800	0.000
1.000	1.000	144.5	0.000	0.000	BNA3(2)_335_337_L_0					
56 D	28.74	6.0954E-03	60.00	143.7	220.0	145.4	UL-RL	8660.	-9.000	0.000
1.000	1.000	143.7	0.000	0.000	BNA3(2)_335_337_L_0					
57 D	28.60	5.5979E-03	64.00	143.0	224.0	144.6	UL-RL	8660.	-9.200	0.000
1.000	1.000	143.0	0.000	0.000	BNA3(2)_335_337_L_0					
58 D	28.49	5.1206E-03	68.00	142.5	228.0	143.9	UL-RL	8660.	-9.400	0.000
1.000	1.000	142.5	0.000	0.000	BNA3(2)_335_337_L_0					
59 D	28.41	4.6635E-03	72.00	142.0	232.0	143.4	UL-RL	8660.	-9.600	0.000
1.000	1.000	142.0	0.000	0.000	BNA3(2)_335_337_L_0					
60 D	28.35	4.2263E-03	76.00	141.7	236.0	143.0	UL-RL	8660.	-9.800	0.000
1.000	1.000	141.7	0.000	0.000	BNA3(2)_335_337_L_0					
61 D	28.31	3.8086E-03	80.00	141.5	240.0	142.7	UL-RL	8660.	-10.000	0.000
1.000	1.000	141.5	0.000	0.000	BNA3(2)_335_337_L_0					
62 D	28.29	3.4102E-03	84.00	141.4	244.0	142.5	UL-RL	8660.	-10.200	0.000
1.000	1.000	141.4	0.000	0.000	BNA3(2)_335_337_L_0					
63 D	28.29	3.0306E-03	88.00	141.5	248.0	142.4	UL-RL	8660.	-10.400	0.000
1.000	1.000	141.5	0.000	0.000	BNA3(2)_335_337_L_0					
64 D	28.32	2.6692E-03	92.00	141.6	252.0	142.4	UL-RL	8660.	-10.600	0.000
1.000	1.000	141.6	0.000	0.000	BNA3(2)_335_337_L_0					
65 D	28.36	2.3254E-03	96.00	141.8	256.0	142.6	UL-RL	8660.	-10.800	0.000
1.000	1.000	141.8	0.000	0.000	BNA3(2)_335_337_L_0					
66 D	28.43	1.9986E-03	100.0	142.1	260.0	142.8	UL-RL	8660.	-11.000	0.000
1.000	1.000	142.1	0.000	0.000	BNA3(2)_335_337_L_0					
67 D	28.51	1.6881E-03	104.0	142.5	264.0	143.1	UL-RL	8660.	-11.200	0.000
1.000	1.000	142.5	0.000	0.000	BNA3(2)_335_337_L_0					
68 D	28.61	1.3931E-03	108.0	143.0	268.0	143.6	UL-RL	8660.	-11.400	0.000
1.000	1.000	143.0	0.000	0.000	BNA3(2)_335_337_L_0					
69 D	28.72	1.1129E-03	112.0	143.6	272.0	144.1	UL-RL	8660.	-11.600	0.000
1.000	1.000	143.6	0.000	0.000	BNA3(2)_335_337_L_0					
70 D	28.85	8.4655E-04	116.0	144.3	276.0	144.7	UL-RL	8660.	-11.800	0.000
1.000	1.000	144.3	0.000	0.000	BNA3(2)_335_337_L_0					
71 D	29.00	5.9334E-04	120.0	145.0	280.0	145.3	UL-RL	8660.	-12.000	0.000
1.000	1.000	145.0	0.000	0.000	BNA3(2)_335_337_L_0					
72 D	29.16	3.5236E-04	124.0	145.8	284.0	146.1	UL-RL	8660.	-12.200	0.000
1.000	1.000	145.8	0.000	0.000	BNA3(2)_335_337_L_0					
73 D	29.32	1.2275E-04	128.0	146.6	288.0	147.0	UL-RL	8660.	-12.400	0.000
1.000	1.000	146.6	0.000	0.000	BNA3(2)_335_337_L_0					
74 D	29.36	-9.6370E-05	132.0	146.8	292.0	149.0	UL-RL	8660.	-12.600	0.000
1.000	1.000	146.8	0.000	0.000	BNA3(2)_335_337_L_0					
75 D	29.42	-3.0587E-04	136.0	147.1	296.0	151.0	UL-RL	8660.	-12.800	0.000
1.000	1.000	147.1	0.000	0.000	BNA3(2)_335_337_L_0					
76 D	29.50	-5.0664E-04	140.0	147.5	300.0	153.0	UL-RL	8660.	-13.000	0.000
1.000	1.000	147.5	0.000	0.000	BNA3(2)_335_337_L_0					
77 D	33.33	-6.9953E-04	144.0	166.7	304.0	178.5	UL-RL	1.4334E+04	-13.200	0.000
1.000	1.000	166.7	0.000	0.000	BNA3(3)_336_338_L_0					
78 D	33.30	-8.8541E-04	148.0	166.5	308.0	180.8	UL-RL	1.4334E+04	-13.400	0.000
1.000	1.000	166.5	0.000	0.000	BNA3(3)_336_338_L_0					
79 D	33.28	-1.0651E-03	152.0	166.4	312.0	183.1	UL-RL	1.4334E+04	-13.600	0.000
1.000	1.000	166.4	0.000	0.000	BNA3(3)_336_338_L_0					

80 D	33.28	-1.2394E-03	156.0	166.4	316.0	185.5	UL-RL	1.4334E+04	-13.80	0.000
1.000	1.000	166.4	0.000	0.000	BNA3(3)_336_338_L_0					
81 D	33.29	-1.4091E-03	160.0	166.5	320.0	187.8	UL-RL	1.4334E+04	-14.00	0.000
1.000	1.000	166.5	0.000	0.000	BNA3(3)_336_338_L_0					
82 D	33.31	-1.5749E-03	164.0	166.6	324.0	190.1	UL-RL	1.4334E+04	-14.20	0.000
1.000	1.000	166.6	0.000	0.000	BNA3(3)_336_338_L_0					
83 D	33.35	-1.7374E-03	168.0	166.7	328.0	192.4	UL-RL	1.4334E+04	-14.40	0.000
1.000	1.000	166.7	0.000	0.000	BNA3(3)_336_338_L_0					
84 D	33.38	-1.8974E-03	172.0	166.9	332.0	194.8	UL-RL	1.4334E+04	-14.60	0.000
1.000	1.000	166.9	0.000	0.000	BNA3(3)_336_338_L_0					
85 D	33.43	-2.0553E-03	176.0	167.1	336.0	197.1	UL-RL	1.4334E+04	-14.80	0.000
1.000	1.000	167.1	0.000	0.000	BNA3(3)_336_338_L_0					
86 D	33.48	-2.2117E-03	180.0	167.4	340.0	199.4	UL-RL	1.4334E+04	-15.00	0.000
1.000	1.000	167.4	0.000	0.000	BNA3(3)_336_338_L_0					
87 D	33.53	-2.3670E-03	184.0	167.6	344.0	201.8	UL-RL	1.4334E+04	-15.20	0.000
1.000	1.000	167.6	0.000	0.000	BNA3(3)_336_338_L_0					
88 D	33.56	-2.5217E-03	188.0	167.8	348.0	204.3	UL-RL	1.4334E+04	-15.40	0.000
1.000	1.000	167.8	0.000	0.000	BNA3(3)_336_338_L_0					
89 D	33.59	-2.6759E-03	192.0	167.9	352.0	206.8	UL-RL	1.4334E+04	-15.60	0.000
1.000	1.000	167.9	0.000	0.000	BNA3(3)_336_338_L_0					
90 D	33.62	-2.8299E-03	196.0	168.1	356.0	209.4	UL-RL	1.4334E+04	-15.80	0.000
1.000	1.000	168.1	0.000	0.000	BNA3(3)_336_338_L_0					
91 D	16.82	-2.9838E-03	200.0	168.2	360.0	211.9	UL-RL	1.4334E+04	-16.00	0.000
1.000	1.000	168.2	0.000	0.000	BNA3(3)_336_338_L_0					

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|                PARATIE PLUS 2014 NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Sept23, 2015*                |
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|                NewProject.BaseDesignSection_25.Nominal_60                                                                              |
|                Exe Time :29 June 2020      20:30:03                                                                              |
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New Project

STRESS RESULTS FOR GROUP NO. 3

WallElement_30 :
ELEMENT TYPE 2 NO.OF ELEMENTS. IN THIS GROUP 90
CURRENT TIME IS 5.0000

WALL2D ELEMENT

EL	TA	TB	MA	MB
1	4.39235E-09	-4.39235E-09	4.33459E-10	1.64545E-09
2	0.67585	-0.67585	-2.05473E-09	0.13517
3	1.8436	-1.8436	-0.13517	0.50388
4	3.5032	-3.5032	-0.50388	1.2045
5	5.6546	-5.6546	-1.2045	2.3354
6	8.2979	-8.2979	-2.3354	3.9950
7	11.433	-11.433	-3.9950	6.2817
8	15.060	-15.060	-6.2817	9.2937
9	19.179	-19.179	-9.2937	13.130
10	23.790	-23.790	-13.130	17.888
11	28.892	-28.892	-17.888	23.666
12	34.487	-34.487	-23.666	30.563
13	40.573	-40.573	-30.563	38.678
14	47.151	-47.151	-38.678	48.108
15	54.221	-54.221	-48.108	58.952
16	-25.417	25.417	-58.952	53.869
17	-17.364	17.364	-53.869	50.396
18	-8.8200	8.8200	-50.396	48.632
19	0.21576	-0.21576	-48.632	48.675
20	9.7428	-9.7428	-48.675	50.624
21	15.654	-15.654	-50.624	53.754
22	21.844	-21.844	-53.754	58.123
23	28.313	-28.313	-58.123	63.786
24	35.060	-35.060	-63.786	70.798
25	42.083	-42.083	-70.798	79.214
26	49.382	-49.382	-79.214	89.091
27	56.955	-56.955	-89.091	100.48
28	64.801	-64.801	-100.48	113.44
29	72.918	-72.918	-113.44	128.03
30	81.304	-81.304	-128.03	144.29
31	89.957	-89.957	-144.29	162.28
32	98.874	-98.874	-162.28	182.05
33	108.05	-108.05	-182.05	203.66
34	117.49	-117.49	-203.66	227.16
35	127.18	-127.18	-227.16	252.60
36	84.917	-84.917	-252.60	269.58
37	95.108	-95.108	-269.58	288.60
38	105.54	-105.54	-288.60	309.71
39	116.22	-116.22	-309.71	332.95
40	127.13	-127.13	-332.95	358.38
41	138.28	-138.28	-358.38	386.04
42	144.84	-144.84	-386.04	415.00
43	148.19	-148.19	-415.00	444.64
44	148.31	-148.31	-444.64	474.30
45	145.20	-145.20	-474.30	503.34
46	138.86	-138.86	-503.34	531.12
47	129.30	-129.30	-531.12	556.98
48	116.51	-116.51	-556.98	580.28
49	100.48	-100.48	-580.28	600.37
50	83.635	-83.635	-600.37	617.10
51	67.296	-67.296	-617.10	630.56
52	51.443	-51.443	-630.56	640.85
53	36.052	-36.052	-640.85	648.06
54	21.099	-21.099	-648.06	652.28
55	6.5587	-6.5587	-652.28	653.59
56	-7.5913	7.5913	-653.59	652.07
57	-21.375	21.375	-652.07	647.80
58	-34.815	34.815	-647.80	640.83
59	-47.935	47.935	-640.83	631.25
60	-60.756	60.756	-631.25	619.10
61	-73.301	73.301	-619.10	604.44
62	-85.432	85.432	-604.44	587.35
63	-96.173	96.173	-587.35	568.11
64	-105.59	105.59	-568.11	547.00
65	-113.76	113.76	-547.00	524.24
66	-120.74	120.74	-524.24	500.10
67	-126.59	126.59	-500.10	474.78
68	-131.37	131.37	-474.78	448.50
69	-135.13	135.13	-448.50	421.48
70	-137.93	137.93	-421.48	393.89

71	-139.82	139.82	-393.89	365.93
72	-140.94	140.94	-365.93	337.74
73	-141.36	141.36	-337.74	309.47
74	-140.96	140.96	-309.47	281.28
75	-139.80	139.80	-281.28	253.32
76	-137.89	137.89	-253.32	225.74
77	-133.92	133.92	-225.74	198.95
78	-128.95	128.95	-198.95	173.16
79	-123.10	123.10	-173.16	148.54
80	-116.41	116.41	-148.54	125.26
81	-108.90	108.90	-125.26	103.48
82	-100.61	100.61	-103.48	83.358
83	-91.553	91.553	-83.358	65.048
84	-81.750	81.750	-65.048	48.698
85	-71.210	71.210	-48.698	34.456
86	-59.940	59.940	-34.456	22.468
87	-47.942	47.942	-22.468	12.879
88	-35.199	35.199	-12.879	5.8396
89	-21.713	21.713	-5.8396	1.4970
90	-7.4849	7.4849	-1.4970	6.18670E-11

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|          PARATIE PLUS 2014 NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Sept23, 2015*          |
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|          NewProject.BaseDesignSection_25.Nominal_60          |
|          Exe Time :29 June 2020          20:30:03          |
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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 . 4

Tieback_341 :
 ELEMENT TYPE 6 NO.OF ELEMENTS. IN THIS GROUP 1
 C U R R E N T T I M E I S 5.0000

POST-TENSION 2D-BOUNDARY ELEMENT

	EL	FORCE	d0	EDISPL	pl. eps	K	-ve limit	+ve limit	
ANCHOR	1	92.795	-6.63295E-04	2.98620E-02	0.0000	1219.8	0.0000	0.0000	ELASTIC ORIGINAL YOUNG MODU-
LUS									


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|                PARATIE PLUS 2014 NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Sept23, 2015*                |
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|                NewProject.BaseDesignSection_25.Nominal_60                                                                              |
|                Exe Time :29 June 2020      20:30:03                                                                              |
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New Project
SOLUTION REACHED USING 5 ITERATIONS ON 40

PRINT OUT FOR TIME STEP 6 (AT TIME 6.000)

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

	Y-DISPL.F (02)	X-ROT. F (04)	(
1	6.1898233E-02	-4.8941251E-03	
2	6.0919408E-02	-4.8941251E-03	
3	5.9940584E-02	-4.8941175E-03	
4	5.8961763E-02	-4.8940796E-03	
5	5.7982956E-02	-4.8939734E-03	
6	5.7004181E-02	-4.8937460E-03	
7	5.6025470E-02	-4.8933291E-03	
8	5.5046867E-02	-4.8926393E-03	
9	5.4068439E-02	-4.8915780E-03	
10	5.3090269E-02	-4.8900316E-03	
11	5.2112467E-02	-4.8878711E-03	
12	5.1135171E-02	-4.8849526E-03	
13	5.0158547E-02	-4.8811169E-03	
14	4.9182797E-02	-4.8761895E-03	
15	4.8208157E-02	-4.8699810E-03	
16	4.7234904E-02	-4.8622867E-03	
17	4.6263255E-02	-4.8544165E-03	
18	4.5293063E-02	-4.8476655E-03	
19	4.4324131E-02	-4.8417833E-03	
20	4.3356310E-02	-4.8365047E-03	
21	4.2389507E-02	-4.8315491E-03	
22	4.1423683E-02	-4.8266987E-03	
23	4.0458831E-02	-4.8218017E-03	
24	3.9494976E-02	-4.8166981E-03	
25	3.8532177E-02	-4.8112195E-03	
26	3.7570525E-02	-4.8051894E-03	
27	3.6610145E-02	-4.7984229E-03	
28	3.5651213E-02	-4.7907268E-03	
29	3.4693930E-02	-4.7818997E-03	
30	3.3738543E-02	-4.7717318E-03	
31	3.2785346E-02	-4.7600052E-03	
32	3.1834664E-02	-4.7464935E-03	
33	3.0886883E-02	-4.7309623E-03	
34	2.9942430E-02	-4.7131685E-03	
35	2.9001783E-02	-4.6928611E-03	
36	2.8065471E-02	-4.6697807E-03	
37	2.7134008E-02	-4.6446471E-03	
38	2.6207701E-02	-4.6181719E-03	
39	2.5286852E-02	-4.5900710E-03	
40	2.4371805E-02	-4.5600516E-03	
41	2.3462979E-02	-4.5278129E-03	
42	2.2560849E-02	-4.4930457E-03	
43	2.1665951E-02	-4.4554327E-03	
44	2.0778891E-02	-4.4146484E-03	
45	1.9900330E-02	-4.3703583E-03	
46	1.9031005E-02	-4.322203E-03	
47	1.8171721E-02	-4.2698840E-03	
48	1.7323351E-02	-4.2130491E-03	
49	1.6486815E-02	-4.1515195E-03	
50	1.5663067E-02	-4.0851976E-03	
51	1.4853059E-02	-4.0140829E-03	
52	1.4057747E-02	-3.9382744E-03	
53	1.3278049E-02	-3.8579690E-03	
54	1.2514839E-02	-3.7734618E-03	
55	1.1768922E-02	-3.6851467E-03	
56	1.1041005E-02	-3.5935146E-03	
57	1.0331699E-02	-3.4991406E-03	
58	9.6414919E-03	-3.4026236E-03	
59	8.9707538E-03	-3.3045440E-03	
60	8.3197442E-03	-3.2054644E-03	
61	7.6886017E-03	-3.1059286E-03	
62	7.0773528E-03	-3.0064630E-03	
63	6.4859911E-03	-2.9075899E-03	
64	5.9142748E-03	-2.8097943E-03	
65	5.3619690E-03	-2.7135638E-03	
66	4.8287136E-03	-2.6193677E-03	
67	4.3140559E-03	-2.5276618E-03	
68	3.8174533E-03	-2.4388898E-03	
69	3.3382766E-03	-2.3534690E-03	
70	2.8758176E-03	-2.2717702E-03	
71	2.4292991E-03	-2.1941133E-03	
72	1.9978848E-03	-2.1207690E-03	
73	1.5806890E-03	-2.0519623E-03	
74	1.1767851E-03	-1.9878760E-03	

75 7.8521434E-04 -1.9286528E-03
76 4.0499294E-04 -1.8743960E-03
77 3.5120470E-05 -1.8251712E-03
78 -3.2541282E-04 -1.7810054E-03
79 -6.7761735E-04 -1.7418745E-03
80 -1.0224927E-03 -1.7076945E-03
81 -1.3610158E-03 -1.6783245E-03
82 -1.6941300E-03 -1.6535673E-03
83 -2.0227336E-03 -1.6331727E-03
84 -2.3476700E-03 -1.6168414E-03
85 -2.6697179E-03 -1.6042270E-03
86 -2.9895824E-03 -1.5949367E-03
87 -3.3078850E-03 -1.5885316E-03
88 -3.6251550E-03 -1.5845269E-03
89 -3.9418204E-03 -1.5823918E-03
90 -4.2581979E-03 -1.5815494E-03
91 -4.5745005E-03 -1.5813762E-03


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|                PARATIE PLUS 2014 NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Sept23, 2015*                |
|                                                                                                                    |
|                NewProject.BaseDesignSection_25.Nominal_60                                                         |
|                Exe Time :29 June 2020      20:30:03                                                                |
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New Project

STRESS RESULTS FOR GROUP NO. 1

0_L :
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 91
CURRENT TIME IS 6.0000

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 LAYER	MAX-H-P	STATE	STIFFNESS	Z-LEVEL	PORE	E FAC-
1 D	0.000	-6.1898E-02	0.000	0.000	0.000	0.000	ACTIVE	0.000	2.000	0.000	
1.000	1.000	0.000	0.000	0.000	FRANA_334_8_L_0						
2 D	0.4880	-6.0919E-02	4.000	2.440	4.000	6.902	ACTIVE	0.000	1.800	0.000	
1.000	1.000	2.440	0.000	0.000	FRANA_334_8_L_0						
3 D	0.9760	-5.9941E-02	8.000	4.880	8.000	9.467	ACTIVE	0.000	1.600	0.000	
1.000	1.000	4.880	0.000	0.000	FRANA_334_8_L_0						
4 D	1.464	-5.8962E-02	12.00	7.320	12.00	12.03	ACTIVE	0.000	1.400	0.000	
1.000	1.000	7.320	0.000	0.000	FRANA_334_8_L_0						
5 D	1.952	-5.7983E-02	16.00	9.760	16.00	14.60	ACTIVE	0.000	1.200	0.000	
1.000	1.000	9.760	0.000	0.000	FRANA_334_8_L_0						
6 D	2.440	-5.7004E-02	20.00	12.20	20.00	17.16	ACTIVE	0.000	1.000	0.000	
1.000	1.000	12.20	0.000	0.000	FRANA_334_8_L_0						
7 D	2.928	-5.6025E-02	24.00	14.64	24.00	19.72	ACTIVE	0.000	0.8000	0.000	
1.000	1.000	14.64	0.000	0.000	FRANA_334_8_L_0						
8 D	3.416	-5.5047E-02	28.00	17.08	28.00	22.29	ACTIVE	0.000	0.6000	0.000	
1.000	1.000	17.08	0.000	0.000	FRANA_334_8_L_0						
9 D	3.904	-5.4068E-02	32.00	19.52	32.00	24.85	ACTIVE	0.000	0.4000	0.000	
1.000	1.000	19.52	0.000	0.000	FRANA_334_8_L_0						
10 D	4.392	-5.3090E-02	36.00	21.96	36.00	27.76	ACTIVE	0.000	0.2000	0.000	
1.000	1.000	21.96	0.000	0.000	FRANA_334_8_L_0						
11 D	4.880	-5.2112E-02	40.00	24.40	40.00	30.84	ACTIVE	0.000	-1.4901E-07	0.000	
1.000	1.000	24.40	0.000	0.000	FRANA_334_8_L_0						
12 D	5.368	-5.1135E-02	44.00	26.84	44.00	33.92	ACTIVE	0.000	-0.2000	0.000	
1.000	1.000	26.84	0.000	0.000	FRANA_334_8_L_0						
13 D	5.856	-5.0159E-02	48.00	29.28	48.00	37.01	ACTIVE	0.000	-0.4000	0.000	
1.000	1.000	29.28	0.000	0.000	FRANA_334_8_L_0						
14 D	6.344	-4.9183E-02	52.00	31.72	52.00	40.09	ACTIVE	0.000	-0.6000	0.000	
1.000	1.000	31.72	0.000	0.000	FRANA_334_8_L_0						
15 D	6.832	-4.8208E-02	56.00	34.16	56.00	43.17	ACTIVE	0.000	-0.8000	0.000	
1.000	1.000	34.16	0.000	0.000	FRANA_334_8_L_0						
16 D	7.321	-4.7235E-02	60.00	36.60	60.00	46.25	ACTIVE	0.000	-1.000	0.000	
1.000	1.000	36.60	0.000	0.000	FRANA_334_8_L_0						
17 D	7.809	-4.6263E-02	64.01	39.04	64.01	49.34	ACTIVE	0.000	-1.200	0.000	
1.000	1.000	39.04	0.000	0.000	FRANA_334_8_L_0						
18 D	8.297	-4.5293E-02	68.01	41.48	68.01	52.42	ACTIVE	0.000	-1.400	0.000	
1.000	1.000	41.48	0.000	0.000	FRANA_334_8_L_0						
19 D	8.785	-4.4324E-02	72.01	43.92	72.01	55.50	ACTIVE	0.000	-1.600	0.000	
1.000	1.000	43.92	0.000	0.000	FRANA_334_8_L_0						
20 D	9.273	-4.3356E-02	76.01	46.37	76.01	58.58	ACTIVE	0.000	-1.800	0.000	
1.000	1.000	46.37	0.000	0.000	FRANA_334_8_L_0						
21 D	4.752	-4.2390E-02	80.01	23.76	80.01	41.02	ACTIVE	0.000	-2.000	0.000	
1.000	1.000	23.76	0.000	0.000	BNA3(2)_335_337_L_0						
22 D	5.018	-4.1424E-02	84.01	25.09	84.01	43.07	ACTIVE	0.000	-2.200	0.000	
1.000	1.000	25.09	0.000	0.000	BNA3(2)_335_337_L_0						
23 D	5.285	-4.0459E-02	88.01	26.42	88.01	45.12	ACTIVE	0.000	-2.400	0.000	
1.000	1.000	26.42	0.000	0.000	BNA3(2)_335_337_L_0						
24 D	5.551	-3.9495E-02	92.02	27.76	92.02	47.17	ACTIVE	0.000	-2.600	0.000	
1.000	1.000	27.76	0.000	0.000	BNA3(2)_335_337_L_0						
25 D	5.818	-3.8532E-02	96.02	29.09	96.02	49.22	ACTIVE	0.000	-2.800	0.000	
1.000	1.000	29.09	0.000	0.000	BNA3(2)_335_337_L_0						
26 D	6.084	-3.7571E-02	100.0	30.42	100.0	51.26	ACTIVE	0.000	-3.000	0.000	
1.000	1.000	30.42	0.000	0.000	BNA3(2)_335_337_L_0						
27 D	6.351	-3.6610E-02	104.0	31.75	104.0	53.31	ACTIVE	0.000	-3.200	0.000	
1.000	1.000	31.75	0.000	0.000	BNA3(2)_335_337_L_0						
28 D	6.617	-3.5651E-02	108.0	33.09	108.0	55.36	ACTIVE	0.000	-3.400	0.000	
1.000	1.000	33.09	0.000	0.000	BNA3(2)_335_337_L_0						
29 D	6.884	-3.4694E-02	112.0	34.42	112.0	57.41	ACTIVE	0.000	-3.600	0.000	
1.000	1.000	34.42	0.000	0.000	BNA3(2)_335_337_L_0						
30 D	7.151	-3.3739E-02	116.0	35.75	116.0	59.45	ACTIVE	0.000	-3.800	0.000	
1.000	1.000	35.75	0.000	0.000	BNA3(2)_335_337_L_0						
31 D	7.417	-3.2785E-02	120.0	37.09	120.0	61.50	ACTIVE	0.000	-4.000	0.000	
1.000	1.000	37.09	0.000	0.000	BNA3(2)_335_337_L_0						
32 D	7.684	-3.1835E-02	124.0	38.42	124.0	63.54	ACTIVE	0.000	-4.200	0.000	
1.000	1.000	38.42	0.000	0.000	BNA3(2)_335_337_L_0						
33 D	7.950	-3.0887E-02	128.0	39.75	128.0	65.59	ACTIVE	0.000	-4.400	0.000	
1.000	1.000	39.75	0.000	0.000	BNA3(2)_335_337_L_0						

34 D	8.217	-2.9942E-02	132.0	41.09	132.0	67.63	ACTIVE	0.000	-4.600	0.000
1.000	1.000	41.09	0.000	0.000	BNA3(2)_335_337_L_0					
35 D	8.484	-2.9002E-02	136.0	42.42	136.0	69.68	ACTIVE	0.000	-4.800	0.000
1.000	1.000	42.42	0.000	0.000	BNA3(2)_335_337_L_0					
36 D	8.750	-2.8065E-02	140.1	43.75	140.1	71.72	ACTIVE	0.000	-5.000	0.000
1.000	1.000	43.75	0.000	0.000	BNA3(2)_335_337_L_0					
37 D	9.017	-2.7134E-02	144.1	45.09	144.1	73.76	ACTIVE	0.000	-5.200	0.000
1.000	1.000	45.09	0.000	0.000	BNA3(2)_335_337_L_0					
38 D	9.284	-2.6208E-02	148.1	46.42	148.1	75.81	ACTIVE	0.000	-5.400	0.000
1.000	1.000	46.42	0.000	0.000	BNA3(2)_335_337_L_0					
39 D	9.550	-2.5287E-02	152.1	47.75	152.1	77.85	ACTIVE	0.000	-5.600	0.000
1.000	1.000	47.75	0.000	0.000	BNA3(2)_335_337_L_0					
40 D	9.817	-2.4372E-02	156.1	49.09	156.1	79.89	ACTIVE	0.000	-5.800	0.000
1.000	1.000	49.09	0.000	0.000	BNA3(2)_335_337_L_0					
41 D	10.08	-2.3463E-02	160.1	50.42	160.1	81.93	ACTIVE	0.000	-6.000	0.000
1.000	1.000	50.42	0.000	0.000	BNA3(2)_335_337_L_0					
42 D	10.35	-2.2561E-02	164.1	51.75	164.1	83.97	ACTIVE	0.000	-6.200	0.000
1.000	1.000	51.75	0.000	0.000	BNA3(2)_335_337_L_0					
43 D	10.62	-2.1666E-02	168.1	53.09	168.1	86.01	ACTIVE	0.000	-6.400	0.000
1.000	1.000	53.09	0.000	0.000	BNA3(2)_335_337_L_0					
44 D	10.88	-2.0779E-02	172.1	54.42	172.1	88.05	ACTIVE	0.000	-6.600	0.000
1.000	1.000	54.42	0.000	0.000	BNA3(2)_335_337_L_0					
45 D	11.15	-1.9900E-02	176.1	55.76	176.1	90.09	ACTIVE	0.000	-6.800	0.000
1.000	1.000	55.76	0.000	0.000	BNA3(2)_335_337_L_0					
46 D	11.42	-1.9031E-02	180.1	57.09	180.1	92.61	ACTIVE	0.000	-7.000	0.000
1.000	1.000	57.09	0.000	0.000	BNA3(2)_335_337_L_0					
47 D	11.68	-1.8172E-02	184.1	58.42	184.1	95.29	ACTIVE	0.000	-7.200	0.000
1.000	1.000	58.42	0.000	0.000	BNA3(2)_335_337_L_0					
48 D	11.95	-1.7323E-02	188.1	59.76	188.1	97.90	ACTIVE	0.000	-7.400	0.000
1.000	1.000	59.76	0.000	0.000	BNA3(2)_335_337_L_0					
49 D	12.22	-1.6487E-02	192.1	61.09	192.1	100.4	ACTIVE	0.000	-7.600	0.000
1.000	1.000	61.09	0.000	0.000	BNA3(2)_335_337_L_0					
50 D	12.49	-1.5663E-02	196.1	62.43	196.1	102.9	ACTIVE	0.000	-7.800	0.000
1.000	1.000	62.43	0.000	0.000	BNA3(2)_335_337_L_0					
51 D	12.75	-1.4853E-02	200.1	63.76	200.1	105.3	ACTIVE	0.000	-8.000	0.000
1.000	1.000	63.76	0.000	0.000	BNA3(2)_335_337_L_0					
52 D	13.02	-1.4058E-02	204.1	65.10	204.1	107.7	ACTIVE	0.000	-8.200	0.000
1.000	1.000	65.10	0.000	0.000	BNA3(2)_335_337_L_0					
53 D	13.29	-1.3278E-02	208.2	66.43	208.2	110.0	ACTIVE	0.000	-8.400	0.000
1.000	1.000	66.43	0.000	0.000	BNA3(2)_335_337_L_0					
54 D	13.55	-1.2515E-02	212.2	67.77	212.2	112.2	ACTIVE	0.000	-8.600	0.000
1.000	1.000	67.77	0.000	0.000	BNA3(2)_335_337_L_0					
55 D	13.82	-1.1769E-02	216.2	69.10	216.2	114.4	ACTIVE	0.000	-8.800	0.000
1.000	1.000	69.10	0.000	0.000	BNA3(2)_335_337_L_0					
56 D	14.09	-1.1041E-02	220.2	70.43	220.2	116.7	ACTIVE	0.000	-9.000	0.000
1.000	1.000	70.43	0.000	0.000	BNA3(2)_335_337_L_0					
57 D	14.35	-1.0332E-02	224.2	71.77	224.2	118.9	ACTIVE	0.000	-9.200	0.000
1.000	1.000	71.77	0.000	0.000	BNA3(2)_335_337_L_0					
58 D	14.62	-9.6415E-03	228.2	73.10	228.2	121.0	ACTIVE	0.000	-9.400	0.000
1.000	1.000	73.10	0.000	0.000	BNA3(2)_335_337_L_0					
59 D	14.89	-8.9708E-03	232.2	74.44	232.2	123.1	ACTIVE	0.000	-9.600	0.000
1.000	1.000	74.44	0.000	0.000	BNA3(2)_335_337_L_0					
60 D	15.16	-8.3197E-03	236.2	75.78	236.2	125.2	ACTIVE	0.000	-9.800	0.000
1.000	1.000	75.78	0.000	0.000	BNA3(2)_335_337_L_0					
61 D	15.42	-7.6886E-03	240.2	77.11	240.2	127.2	ACTIVE	0.000	-10.000	0.000
1.000	1.000	77.11	0.000	0.000	BNA3(2)_335_337_L_0					
62 D	15.69	-7.0774E-03	244.2	78.45	244.2	129.3	ACTIVE	0.000	-10.200	0.000
1.000	1.000	78.45	0.000	0.000	BNA3(2)_335_337_L_0					
63 D	15.96	-6.4860E-03	248.2	79.78	248.2	131.2	ACTIVE	0.000	-10.400	0.000
1.000	1.000	79.78	0.000	0.000	BNA3(2)_335_337_L_0					
64 D	16.22	-5.9143E-03	252.3	81.12	252.3	133.2	ACTIVE	0.000	-10.600	0.000
1.000	1.000	81.12	0.000	0.000	BNA3(2)_335_337_L_0					
65 D	16.49	-5.3620E-03	256.3	82.45	256.3	135.1	ACTIVE	0.000	-10.800	0.000
1.000	1.000	82.45	0.000	0.000	BNA3(2)_335_337_L_0					
66 D	16.76	-4.8287E-03	260.3	83.79	260.3	137.0	ACTIVE	0.000	-11.000	0.000
1.000	1.000	83.79	0.000	0.000	BNA3(2)_335_337_L_0					
67 D	17.02	-4.3141E-03	264.3	85.12	264.3	138.9	ACTIVE	0.000	-11.200	0.000
1.000	1.000	85.12	0.000	0.000	BNA3(2)_335_337_L_0					
68 D	18.23	-3.8175E-03	268.3	91.15	268.3	140.8	UL-RL	1.1547E+04	-11.400	0.000
1.000	1.000	91.15	0.000	0.000	BNA3(2)_335_337_L_0					
69 D	19.82	-3.3383E-03	272.3	99.10	272.3	142.7	UL-RL	1.1547E+04	-11.600	0.000
1.000	1.000	99.10	0.000	0.000	BNA3(2)_335_337_L_0					
70 D	21.37	-2.8758E-03	276.3	106.8	276.3	144.5	UL-RL	1.1547E+04	-11.800	0.000
1.000	1.000	106.8	0.000	0.000	BNA3(2)_335_337_L_0					
71 D	22.88	-2.4293E-03	280.3	114.4	280.3	146.4	UL-RL	1.1547E+04	-12.000	0.000
1.000	1.000	114.4	0.000	0.000	BNA3(2)_335_337_L_0					
72 D	24.23	-1.9979E-03	284.4	121.2	284.4	149.1	UL-RL	1.1547E+04	-12.200	0.000
1.000	1.000	121.2	0.000	0.000	BNA3(2)_335_337_L_0					
73 D	25.54	-1.5807E-03	288.4	127.7	288.4	152.0	UL-RL	1.1547E+04	-12.400	0.000
1.000	1.000	127.7	0.000	0.000	BNA3(2)_335_337_L_0					
74 D	26.81	-1.1768E-03	292.4	134.1	292.4	154.9	UL-RL	1.1547E+04	-12.600	0.000
1.000	1.000	134.1	0.000	0.000	BNA3(2)_335_337_L_0					
75 D	28.07	-7.8521E-04	296.4	140.3	296.4	157.6	UL-RL	1.1547E+04	-12.800	0.000
1.000	1.000	140.3	0.000	0.000	BNA3(2)_335_337_L_0					
76 D	29.29	-4.0499E-04	300.4	146.5	300.4	160.4	UL-RL	1.1547E+04	-13.000	0.000
1.000	1.000	146.5	0.000	0.000	BNA3(2)_335_337_L_0					
77 D	35.00	-3.5120E-05	304.4	175.0	304.4	189.3	UL-RL	1.5697E+04	-13.200	0.000
1.000	1.000	175.0	0.000	0.000	BNA3(3)_336_338_L_0					
78 D	36.51	3.2541E-04	308.4	182.6	308.4	192.6	UL-RL	1.5697E+04	-13.400	0.000
1.000	1.000	182.6	0.000	0.000	BNA3(3)_336_338_L_0					
79 D	37.91	6.7762E-04	312.4	189.6	312.4	196.6	UL-RL	1.5697E+04	-13.600	0.000
1.000	1.000	189.6	0.000	0.000	BNA3(3)_336_338_L_0					

80 D	39.29	1.0225E-03	316.5	196.4	316.5	200.6	UL-RL	1.5697E+04	-13.80	0.000
1.000	1.000	196.4	0.000	0.000	BNA3(3)_336_338_L_0					
81 D	40.65	1.3610E-03	320.5	203.2	320.5	204.6	UL-RL	1.5697E+04	-14.00	0.000
1.000	1.000	203.2	0.000	0.000	BNA3(3)_336_338_L_0					
82 D	41.88	1.6941E-03	324.5	209.4	324.5	209.5	UL-RL	1.5697E+04	-14.20	0.000
1.000	1.000	209.4	0.000	0.000	BNA3(3)_336_338_L_0					
83 D	43.00	2.0227E-03	328.5	215.0	328.5	215.1	UL-RL	1.5697E+04	-14.40	0.000
1.000	1.000	215.0	0.000	0.000	BNA3(3)_336_338_L_0					
84 D	44.12	2.3477E-03	332.5	220.6	332.5	220.6	UL-RL	1.5697E+04	-14.60	0.000
1.000	1.000	220.6	0.000	0.000	BNA3(3)_336_338_L_0					
85 D	45.23	2.6697E-03	336.5	226.2	336.5	226.2	V-C	9811.	-14.80	0.000
1.000	1.000	226.2	0.000	0.000	BNA3(3)_336_338_L_0					
86 D	46.34	2.9896E-03	340.5	231.7	340.5	231.7	V-C	9811.	-15.00	0.000
1.000	1.000	231.7	0.000	0.000	BNA3(3)_336_338_L_0					
87 D	47.44	3.3079E-03	344.6	237.2	344.6	237.2	V-C	9811.	-15.20	0.000
1.000	1.000	237.2	0.000	0.000	BNA3(3)_336_338_L_0					
88 D	48.54	3.6252E-03	348.6	242.7	348.6	242.7	V-C	9811.	-15.40	0.000
1.000	1.000	242.7	0.000	0.000	BNA3(3)_336_338_L_0					
89 D	49.64	3.9418E-03	352.6	248.2	352.6	248.2	V-C	9811.	-15.60	0.000
1.000	1.000	248.2	0.000	0.000	BNA3(3)_336_338_L_0					
90 D	50.74	4.2582E-03	356.6	253.7	356.6	253.7	V-C	9811.	-15.80	0.000
1.000	1.000	253.7	0.000	0.000	BNA3(3)_336_338_L_0					
91 D	25.92	4.5745E-03	360.6	259.2	360.6	259.2	V-C	9811.	-16.00	0.000
1.000	1.000	259.2	0.000	0.000	BNA3(3)_336_338_L_0					

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|                PARATIE PLUS 2014 NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Sept23, 2015*                |
|                                                                                                                    |
|                NewProject.BaseDesignSection_25.Nominal_60                                                         |
|                Exe Time :29 June 2020      20:30:03                                                                |
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New Project

STRESS RESULTS FOR GROUP NO. 2

0_R :
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 91
CURRENT TIME IS 6.0000

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 LAYER	MAX-H-P	STATE	STIFFNESS	Z-LEVEL	PORE	E FAC-
1	0.000	--	--	--	--	--	REMOVED	--	2.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
2	0.000	--	--	--	--	--	REMOVED	--	1.800	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
3	0.000	--	--	--	--	--	REMOVED	--	1.600	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
4	0.000	--	--	--	--	--	REMOVED	--	1.400	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
5	0.000	--	--	--	--	--	REMOVED	--	1.200	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
6	0.000	--	--	--	--	--	REMOVED	--	1.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
7	0.000	--	--	--	--	--	REMOVED	--	0.8000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
8	0.000	--	--	--	--	--	REMOVED	--	0.6000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
9	0.000	--	--	--	--	--	REMOVED	--	0.4000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
10	0.000	--	--	--	--	--	REMOVED	--	0.2000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
11	0.000	--	--	--	--	--	REMOVED	--	-1.4901E-07	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
12	0.000	--	--	--	--	--	REMOVED	--	-0.2000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
13	0.000	--	--	--	--	--	REMOVED	--	-0.4000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
14	0.000	--	--	--	--	--	REMOVED	--	-0.6000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
15	0.000	--	--	--	--	--	REMOVED	--	-0.8000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
16	0.000	--	--	--	--	--	REMOVED	--	-1.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
17	0.000	--	--	--	--	--	REMOVED	--	-1.200	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
18	0.000	--	--	--	--	--	REMOVED	--	-1.400	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
19	0.000	--	--	--	--	--	REMOVED	--	-1.600	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
20	0.000	--	--	--	--	--	REMOVED	--	-1.800	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
21	0.000	--	--	--	--	--	REMOVED	--	-2.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
22	0.000	--	--	--	--	--	REMOVED	--	-2.200	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
23	0.000	--	--	--	--	--	REMOVED	--	-2.400	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
24	0.000	--	--	--	--	--	REMOVED	--	-2.600	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
25	0.000	--	--	--	--	--	REMOVED	--	-2.800	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
26	0.000	--	--	--	--	--	REMOVED	--	-3.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
27	0.000	--	--	--	--	--	REMOVED	--	-3.200	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
28	0.000	--	--	--	--	--	REMOVED	--	-3.400	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
29	0.000	--	--	--	--	--	REMOVED	--	-3.600	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
30	0.000	--	--	--	--	--	REMOVED	--	-3.800	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
31	0.000	--	--	--	--	--	REMOVED	--	-4.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
32	0.000	--	--	--	--	--	REMOVED	--	-4.200	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
33	0.000	--	--	--	--	--	REMOVED	--	-4.400	0.000	
1.000	1.000	0.000	0.000	0.000	not available						

34	0.000	--	--	--	--	--	REMOVED	--	-4.600	0.000
1.000	1.000	0.000	0.000	0.000	0.000	not available				
35	0.000	--	--	--	--	--	REMOVED	--	-4.800	0.000
1.000	1.000	0.000	0.000	0.000	0.000	not available				
36	0.000	--	--	--	--	--	REMOVED	--	-5.000	0.000
1.000	1.000	0.000	0.000	0.000	0.000	not available				
37	0.000	--	--	--	--	--	REMOVED	--	-5.200	0.000
1.000	1.000	0.000	0.000	0.000	0.000	not available				
38	0.000	--	--	--	--	--	REMOVED	--	-5.400	0.000
1.000	1.000	0.000	0.000	0.000	0.000	not available				
39	0.000	--	--	--	--	--	REMOVED	--	-5.600	0.000
1.000	1.000	0.000	0.000	0.000	0.000	not available				
40	0.000	--	--	--	--	--	REMOVED	--	-5.800	0.000
1.000	1.000	0.000	0.000	0.000	0.000	not available				
41	0.000	--	--	--	--	--	REMOVED	--	-6.000	0.000
1.000	1.000	0.000	0.000	0.000	0.000	not available				
42	0.000	--	--	--	--	--	REMOVED	--	-6.200	0.000
1.000	1.000	0.000	0.000	0.000	0.000	not available				
43	0.000	--	--	--	--	--	REMOVED	--	-6.400	0.000
1.000	1.000	0.000	0.000	0.000	0.000	not available				
44	0.000	--	--	--	--	--	REMOVED	--	-6.600	0.000
1.000	1.000	0.000	0.000	0.000	0.000	not available				
45	0.000	--	--	--	--	--	REMOVED	--	-6.800	0.000
1.000	1.000	0.000	0.000	0.000	0.000	not available				
46	0.000	--	--	--	--	--	REMOVED	--	-7.000	0.000
1.000	1.000	0.000	0.000	0.000	0.000	not available				
47 D	3.786	1.8172E-02	2.000	18.93	113.3	184.0	PASSIVE	0.000	-7.200	0.000
1.000	1.000	18.93	0.000	0.000	0.000	BNA3(2)_335_337_L_0				
48 D	7.216	1.7323E-02	6.000	36.08	130.4	188.0	PASSIVE	0.000	-7.400	0.000
1.000	1.000	36.08	0.000	0.000	0.000	BNA3(2)_335_337_L_0				
49 D	10.65	1.6487E-02	10.00	53.23	147.6	192.0	PASSIVE	0.000	-7.600	0.000
1.000	1.000	53.23	0.000	0.000	0.000	BNA3(2)_335_337_L_0				
50 D	14.08	1.5663E-02	14.00	70.39	152.7	196.0	PASSIVE	0.000	-7.800	0.000
1.000	1.000	70.39	0.000	0.000	0.000	BNA3(2)_335_337_L_0				
51 D	17.51	1.4853E-02	18.00	87.54	151.2	200.0	PASSIVE	0.000	-8.000	0.000
1.000	1.000	87.54	0.000	0.000	0.000	BNA3(2)_335_337_L_0				
52 D	20.94	1.4058E-02	22.00	104.7	149.8	204.0	PASSIVE	0.000	-8.200	0.000
1.000	1.000	104.7	0.000	0.000	0.000	BNA3(2)_335_337_L_0				
53 D	24.37	1.3278E-02	26.00	121.8	148.5	208.0	PASSIVE	0.000	-8.400	0.000
1.000	1.000	121.8	0.000	0.000	0.000	BNA3(2)_335_337_L_0				
54 D	27.80	1.2515E-02	30.00	139.0	147.3	212.0	PASSIVE	0.000	-8.600	0.000
1.000	1.000	139.0	0.000	0.000	0.000	BNA3(2)_335_337_L_0				
55 D	31.23	1.1769E-02	34.00	156.1	156.1	216.0	PASSIVE	0.000	-8.800	0.000
1.000	1.000	156.1	0.000	0.000	0.000	BNA3(2)_335_337_L_0				
56 D	33.68	1.1041E-02	38.00	168.4	168.4	220.0	V-C	4865.	-9.000	0.000
1.000	1.000	168.4	0.000	0.000	0.000	BNA3(2)_335_337_L_0				
57 D	33.33	1.0332E-02	42.00	166.6	166.6	224.0	V-C	4865.	-9.200	0.000
1.000	1.000	166.6	0.000	0.000	0.000	BNA3(2)_335_337_L_0				
58 D	33.00	9.6415E-03	46.00	165.0	165.0	228.0	V-C	4865.	-9.400	0.000
1.000	1.000	165.0	0.000	0.000	0.000	BNA3(2)_335_337_L_0				
59 D	32.70	8.9708E-03	50.00	163.5	163.5	232.0	V-C	4865.	-9.600	0.000
1.000	1.000	163.5	0.000	0.000	0.000	BNA3(2)_335_337_L_0				
60 D	32.42	8.3197E-03	54.00	162.1	162.1	236.0	V-C	4865.	-9.800	0.000
1.000	1.000	162.1	0.000	0.000	0.000	BNA3(2)_335_337_L_0				
61 D	32.17	7.6886E-03	58.00	160.8	160.8	240.0	V-C	4865.	-10.000	0.000
1.000	1.000	160.8	0.000	0.000	0.000	BNA3(2)_335_337_L_0				
62 D	31.93	7.0774E-03	62.00	159.7	159.7	244.0	V-C	4865.	-10.200	0.000
1.000	1.000	159.7	0.000	0.000	0.000	BNA3(2)_335_337_L_0				
63 D	31.72	6.4860E-03	66.00	158.6	158.6	248.0	V-C	4865.	-10.400	0.000
1.000	1.000	158.6	0.000	0.000	0.000	BNA3(2)_335_337_L_0				
64 D	31.54	5.9143E-03	70.00	157.7	157.7	252.0	V-C	4865.	-10.600	0.000
1.000	1.000	157.7	0.000	0.000	0.000	BNA3(2)_335_337_L_0				
65 D	31.37	5.3620E-03	74.00	156.9	156.9	256.0	V-C	4865.	-10.800	0.000
1.000	1.000	156.9	0.000	0.000	0.000	BNA3(2)_335_337_L_0				
66 D	31.23	4.8287E-03	78.00	156.2	156.2	260.0	V-C	4865.	-11.000	0.000
1.000	1.000	156.2	0.000	0.000	0.000	BNA3(2)_335_337_L_0				
67 D	31.11	4.3141E-03	82.00	155.5	155.5	264.0	V-C	4865.	-11.200	0.000
1.000	1.000	155.5	0.000	0.000	0.000	BNA3(2)_335_337_L_0				
68 D	31.01	3.8175E-03	86.00	155.0	155.0	268.0	V-C	4865.	-11.400	0.000
1.000	1.000	155.0	0.000	0.000	0.000	BNA3(2)_335_337_L_0				
69 D	30.92	3.3383E-03	90.00	154.6	154.6	272.0	V-C	4865.	-11.600	0.000
1.000	1.000	154.6	0.000	0.000	0.000	BNA3(2)_335_337_L_0				
70 D	30.86	2.8758E-03	94.00	154.3	154.3	276.0	V-C	4865.	-11.800	0.000
1.000	1.000	154.3	0.000	0.000	0.000	BNA3(2)_335_337_L_0				
71 D	30.81	2.4293E-03	98.00	154.1	154.1	280.0	V-C	4865.	-12.000	0.000
1.000	1.000	154.1	0.000	0.000	0.000	BNA3(2)_335_337_L_0				
72 D	30.78	1.9979E-03	102.0	153.9	153.9	284.0	V-C	4865.	-12.200	0.000
1.000	1.000	153.9	0.000	0.000	0.000	BNA3(2)_335_337_L_0				
73 D	30.77	1.5807E-03	106.0	153.8	153.8	288.0	V-C	4865.	-12.400	0.000
1.000	1.000	153.8	0.000	0.000	0.000	BNA3(2)_335_337_L_0				
74 D	30.76	1.1768E-03	110.0	153.8	153.8	292.0	V-C	4865.	-12.600	0.000
1.000	1.000	153.8	0.000	0.000	0.000	BNA3(2)_335_337_L_0				
75 D	30.78	7.8521E-04	114.0	153.9	153.9	296.0	V-C	4865.	-12.800	0.000
1.000	1.000	153.9	0.000	0.000	0.000	BNA3(2)_335_337_L_0				
76 D	30.80	4.0499E-04	118.0	154.0	154.0	300.0	V-C	4865.	-13.000	0.000
1.000	1.000	154.0	0.000	0.000	0.000	BNA3(2)_335_337_L_0				
77 D	35.23	3.5120E-05	122.0	176.1	178.5	304.0	UL-RL	1.2885E+04	-13.200	0.000
1.000	1.000	176.1	0.000	0.000	0.000	BNA3(3)_336_338_L_0				
78 D	34.74	-3.2541E-04	126.0	173.7	180.8	308.0	UL-RL	1.2885E+04	-13.400	0.000
1.000	1.000	173.7	0.000	0.000	0.000	BNA3(3)_336_338_L_0				
79 D	34.28	-6.7762E-04	130.0	171.4	183.1	312.0	UL-RL	1.2885E+04	-13.600	0.000
1.000	1.000	171.4	0.000	0.000	0.000	BNA3(3)_336_338_L_0				

80 D	33.84	-1.0225E-03	134.0	169.2	316.0	185.5	UL-RL	1.2885E+04	-13.80	0.000
1.000	1.000	169.2	0.000	0.000	BNA3(3)_336_338_L_0					
81 D	33.41	-1.3610E-03	138.0	167.1	320.0	187.8	UL-RL	1.2885E+04	-14.00	0.000
1.000	1.000	167.1	0.000	0.000	BNA3(3)_336_338_L_0					
82 D	33.01	-1.6941E-03	142.0	165.0	324.0	190.1	UL-RL	1.2885E+04	-14.20	0.000
1.000	1.000	165.0	0.000	0.000	BNA3(3)_336_338_L_0					
83 D	32.61	-2.0227E-03	146.0	163.0	328.0	192.4	UL-RL	1.2885E+04	-14.40	0.000
1.000	1.000	163.0	0.000	0.000	BNA3(3)_336_338_L_0					
84 D	32.22	-2.3477E-03	150.0	161.1	332.0	194.8	UL-RL	1.2885E+04	-14.60	0.000
1.000	1.000	161.1	0.000	0.000	BNA3(3)_336_338_L_0					
85 D	31.85	-2.6697E-03	154.0	159.2	336.0	197.1	UL-RL	1.2885E+04	-14.80	0.000
1.000	1.000	159.2	0.000	0.000	BNA3(3)_336_338_L_0					
86 D	31.47	-2.9896E-03	158.0	157.4	340.0	199.4	UL-RL	1.2885E+04	-15.00	0.000
1.000	1.000	157.4	0.000	0.000	BNA3(3)_336_338_L_0					
87 D	31.10	-3.3079E-03	162.0	155.5	344.0	201.8	UL-RL	1.2885E+04	-15.20	0.000
1.000	1.000	155.5	0.000	0.000	BNA3(3)_336_338_L_0					
88 D	30.71	-3.6252E-03	166.0	153.6	348.0	204.3	UL-RL	1.2885E+04	-15.40	0.000
1.000	1.000	153.6	0.000	0.000	BNA3(3)_336_338_L_0					
89 D	30.32	-3.9418E-03	170.0	151.6	352.0	206.8	UL-RL	1.2885E+04	-15.60	0.000
1.000	1.000	151.6	0.000	0.000	BNA3(3)_336_338_L_0					
90 D	29.94	-4.2582E-03	174.0	149.7	356.0	209.4	UL-RL	1.2885E+04	-15.80	0.000
1.000	1.000	149.7	0.000	0.000	BNA3(3)_336_338_L_0					
91 D	14.77	-4.5745E-03	178.0	147.7	360.0	211.9	UL-RL	1.2885E+04	-16.00	0.000
1.000	1.000	147.7	0.000	0.000	BNA3(3)_336_338_L_0					

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|                PARATIE PLUS 2014 NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Sept23, 2015*                |
|                                                                                                                                            |
|                                                                                                                                            |
|                NewProject.BaseDesignSection_25.Nominal_60                                                                              |
|                Exe Time :29 June 2020      20:30:03                                                                              |
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New Project

STRESS RESULTS FOR GROUP NO. 3

WallElement_30 :
ELEMENT TYPE 2 NO.OF ELEMENTS. IN THIS GROUP 90
CURRENT TIME IS 6.0000

WALL2D ELEMENT

EL	TA	TB	MA	MB
1	4.94498E-09	-4.94498E-09	4.96598E-10	1.74990E-09
2	0.48800	-0.48800	-1.34470E-09	9.76000E-02
3	1.4640	-1.4640	-9.76000E-02	0.39040
4	2.9280	-2.9280	-0.39040	0.97600
5	4.8800	-4.8800	-0.97600	1.9520
6	7.3200	-7.3200	-1.9520	3.4160
7	10.248	-10.248	-3.4160	5.4656
8	13.664	-13.664	-5.4656	8.1984
9	17.568	-17.568	-8.1984	11.712
10	21.960	-21.960	-11.712	16.104
11	26.840	-26.840	-16.104	21.472
12	32.209	-32.209	-21.472	27.914
13	38.065	-38.065	-27.914	35.527
14	44.409	-44.409	-35.527	44.409
15	51.242	-51.242	-44.409	54.657
16	-39.925	39.925	-54.657	46.672
17	-32.116	32.116	-46.672	40.249
18	-23.819	23.819	-40.249	35.485
19	-15.034	15.034	-35.485	32.478
20	-5.7613	5.7613	-32.478	31.326
21	-1.0097	1.0097	-31.326	31.124
22	4.0084	-4.0084	-31.124	31.926
23	9.2930	-9.2930	-31.926	33.784
24	14.844	-14.844	-33.784	36.753
25	20.662	-20.662	-36.753	40.886
26	26.746	-26.746	-40.886	46.235
27	33.097	-33.097	-46.235	52.854
28	39.714	-39.714	-52.854	60.797
29	46.598	-46.598	-60.797	70.117
30	53.749	-53.749	-70.117	80.866
31	61.166	-61.166	-80.866	93.099
32	68.849	-68.849	-93.099	106.87
33	76.800	-76.800	-106.87	122.23
34	85.017	-85.017	-122.23	139.23
35	93.500	-93.500	-139.23	157.93
36	38.674	-38.674	-157.93	165.67
37	47.691	-47.691	-165.67	175.21
38	56.975	-56.975	-175.21	186.60
39	66.526	-66.526	-186.60	199.91
40	76.343	-76.343	-199.91	215.17
41	86.427	-86.427	-215.17	232.46
42	96.777	-96.777	-232.46	251.82
43	107.39	-107.39	-251.82	273.29
44	118.28	-118.28	-273.29	296.95
45	129.43	-129.43	-296.95	322.84
46	140.85	-140.85	-322.84	351.01
47	148.75	-148.75	-351.01	380.75
48	153.48	-153.48	-380.75	411.45
49	155.05	-155.05	-411.45	442.46
50	153.46	-153.46	-442.46	473.15
51	148.71	-148.71	-473.15	502.90
52	140.79	-140.79	-502.90	531.05
53	129.71	-129.71	-531.05	556.99
54	115.46	-115.46	-556.99	580.09
55	98.051	-98.051	-580.09	599.70
56	78.463	-78.463	-599.70	615.39
57	59.490	-59.490	-615.39	627.29
58	41.110	-41.110	-627.29	635.51
59	23.299	-23.299	-635.51	640.17
60	6.0328	-6.0328	-640.17	641.38
61	-10.711	10.711	-641.38	639.23
62	-26.955	26.955	-639.23	633.84
63	-42.724	42.724	-633.84	625.30
64	-58.038	58.038	-625.30	613.69
65	-72.922	72.922	-613.69	599.11
66	-87.394	87.394	-599.11	581.63
67	-101.48	101.48	-581.63	561.33
68	-114.25	114.25	-561.33	538.48
69	-125.36	125.36	-538.48	513.41
70	-134.85	134.85	-513.41	486.44

71	-142.78	142.78	-486.44	457.88
72	-149.33	149.33	-457.88	428.02
73	-154.56	154.56	-428.02	397.11
74	-158.51	158.51	-397.11	365.41
75	-161.22	161.22	-365.41	333.16
76	-162.72	162.72	-333.16	300.62
77	-162.95	162.95	-300.62	268.03
78	-161.18	161.18	-268.03	235.79
79	-157.55	157.55	-235.79	204.28
80	-152.10	152.10	-204.28	173.86
81	-144.86	144.86	-173.86	144.89
82	-135.99	135.99	-144.89	117.69
83	-125.59	125.59	-117.69	92.576
84	-113.69	113.69	-92.576	69.838
85	-100.30	100.30	-69.838	49.777
86	-85.436	85.436	-49.777	32.690
87	-69.095	69.095	-32.690	18.871
88	-51.264	51.264	-18.871	8.6182
89	-31.947	31.947	-8.6182	2.2289
90	-11.144	11.144	-2.2289	-9.13047E-12


```

+-----+
|          PARATIE PLUS 2014 NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Sept23, 2015*          |
|                                                                                                    |
|                               NewProject.BaseDesignSection_25.Nominal_60                            |
|                               Exe Time :29 June 2020      20:30:03                                |
+-----+

```

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 . 4

Tieback_341 :
 ELEMENT TYPE 6 NO.OF ELEMENTS. IN THIS GROUP 1
 C U R R E N T T I M E I S 6.0000

POST-TENSION 2D-BOUNDARY ELEMENT

	EL	FORCE	d0	EDISPL	pl. eps	K	-ve limit	+ve limit	
ANCHOR	1	104.81	-6.63295E-04	3.97098E-02	0.0000	1219.8	0.0000	0.0000	ELASTIC ORIGINAL YOUNG MODU-
LUS									

```

+-----+
|          PARATIE PLUS 2014 NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Sept23, 2015*          |
|                                                                                                    |
|                               NewProject.BaseDesignSection_25.Nominal_60                            |
|                               Exe Time :29 June 2020      20:30:03                                |
+-----+

```

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 . 5

Tieback_342 :
 ELEMENT TYPE 6 NO.OF ELEMENTS. IN THIS GROUP 1
 C U R R E N T T I M E I S 6.0000

POST-TENSION 2D-BOUNDARY ELEMENT

	EL	FORCE	d0	EDISPL	pl. eps	K	-ve limit	+ve limit	
ANCHOR	1	67.657	-4.31574E-04	7.39702E-03	0.0000	1545.2	0.0000	0.0000	ELASTIC ORIGINAL YOUNG MODU-
LUS									

```

+-----+
|          PARATIE PLUS 2014 NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Sept23, 2015*          |
|                                                                                                                                            |
|                                                                 NewProject.BaseDesignSection_25.Nominal_60                               |
|                                                                 Exe Time :29 June 2020      20:30:03                               |
+-----+

```

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

END OF PROCESS FOR PROBLEM

New Project
 NONLINEAR SOLUTION CPU TIME 0.06 [sec]
 DATABASE CREATION CPU TIME..... 0.21 [sec]



Report di Calcolo

Nome Progetto: New Project

Autore: Ingegnere

Jobname: \\SBS2011\Comm\424.01 - HIRPINIA\Ing\03. LAVORO\07 - GALL\GA - FINESTRE - IMBOCCHI\GA13 Finestra F7\PARATIA\sez2\SEZIONE 2 GEO Finestra F7 -Trasv_revF.pplus

Data: 29/06/2020 21:07:29

Design Section: Base Design Section

Sommario

Contenuto Sommario

Descrizione della Stratigrafia e degli Strati di Terreno

Tipo : HORIZONTAL

Quota : 2 m

OCR : 1

Tipo : HORIZONTAL

Quota : -2 m

OCR : 1

Tipo : HORIZONTAL

Quota : -13 m

OCR : 1

Tipo : HORIZONTAL

Quota : -18 m

OCR : 1

Strato di Terreno	Terreno	γ dry	γ sat	ϕ'	ϕ	ϕ_{cv}	ϕ_p	c'	Su	Modulo Elastico	Eu	Evc	Eur	Ah	Avexp	Pa	Rur/Rvc	Rvc	Ku	Kvc	Kur	
		kN/m ³	kN/m ³	°	°	°	°	kPa	kPa			kPa	kPa			kPa		kPa	kN/m ³	kN/m ³	kN/m ³	
1	FRANA	20	20	14				0		Constant		15000	24000									
2	BNA3(2)	20	20	24.8				2		Constant		50000	80000									
3	BNA3(3)	20	20	20.5				24		Constant		75000	120000									
4	BNA3(4)	20	20	26.6				4		Constant		100000	160000									

Descrizione Pareti

X : 0 m

Quota in alto : 2 m

Quota di fondo : -16 m

Muro di sinistra

Sezione : PALI_Fi1000/1200

Area equivalente : 0.654498469497874 m

Inerzia equivalente : 0.0409 m⁴/m

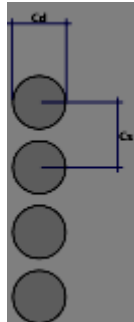
Materiale calcestruzzo : C25/30

Tipo sezione : Tangent

Spaziatura : 1.2 m

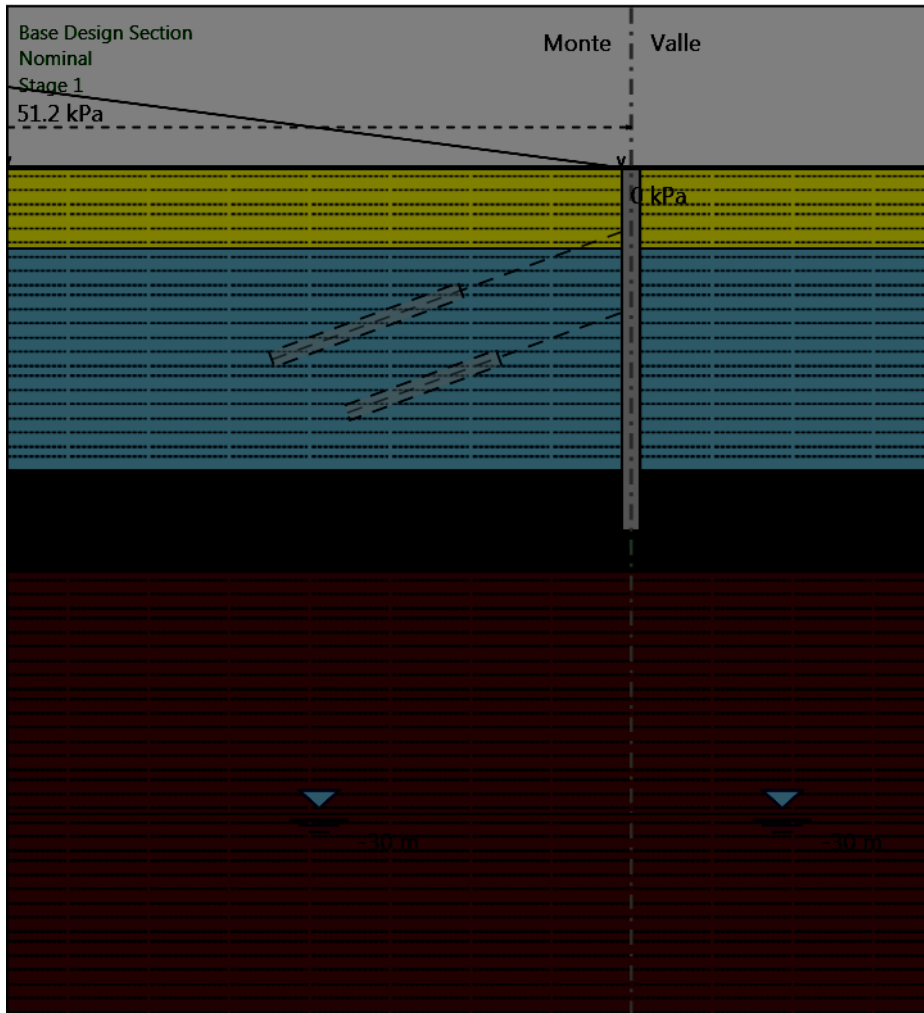
Diametro : 1 m

Efficacia : 1



Fasi di Calcolo

Stage 1



Stage 1

Scavo

Muro di sinistra

Lato monte : 2 m

Lato valle : 2 m

Linea di scavo di sinistra (Orizzontale)

2 m

Linea di scavo di destra (Orizzontale)

2 m

Falda acquifera

Falda di sinistra : -30 m

Falda di destra : -30 m

Carichi

Carico lineare in superficie : SurfaceSurcharge

X iniziale : -0.5 m

X finale : -31 m

Pressione iniziale : 0 kPa

Pressione finale : 51.2 kPa

Elementi strutturali

Paratia : WallElement

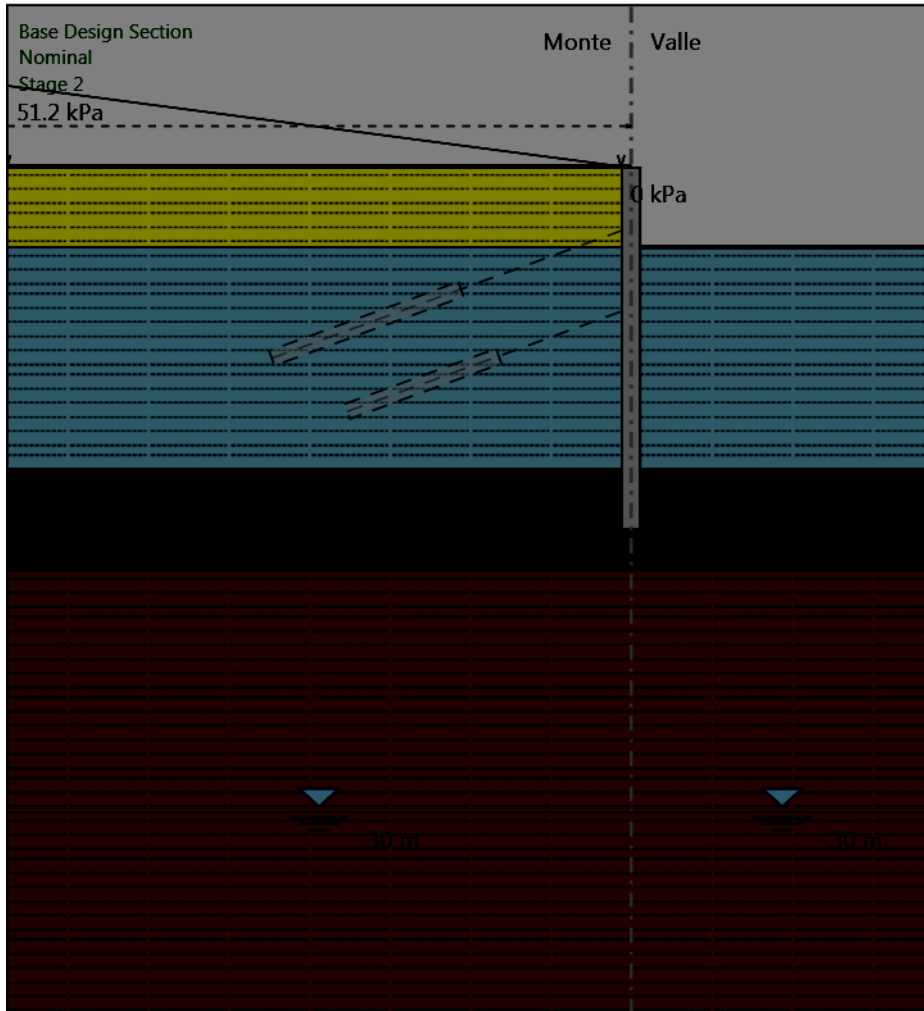
X : 0 m

Quota in alto : 2 m

Quota di fondo : -16 m

Sezione : PALI_Fi1000/1200

Stage 2



Stage 2

Scavo

Muro di sinistra

Lato monte : 2 m

Lato valle : -2 m

Linea di scavo di sinistra (Orizzontale)

2 m

Linea di scavo di destra (Orizzontale)

-2 m

Falda acquifera

Falda di sinistra : -30 m

Falda di destra : -30 m

Carichi

Carico lineare in superficie : SurfaceSurcharge

X iniziale : -0.5 m

X finale : -31 m

Pressione iniziale : 0 kPa

Pressione finale : 51.2 kPa

Elementi strutturali

Paratia : WallElement

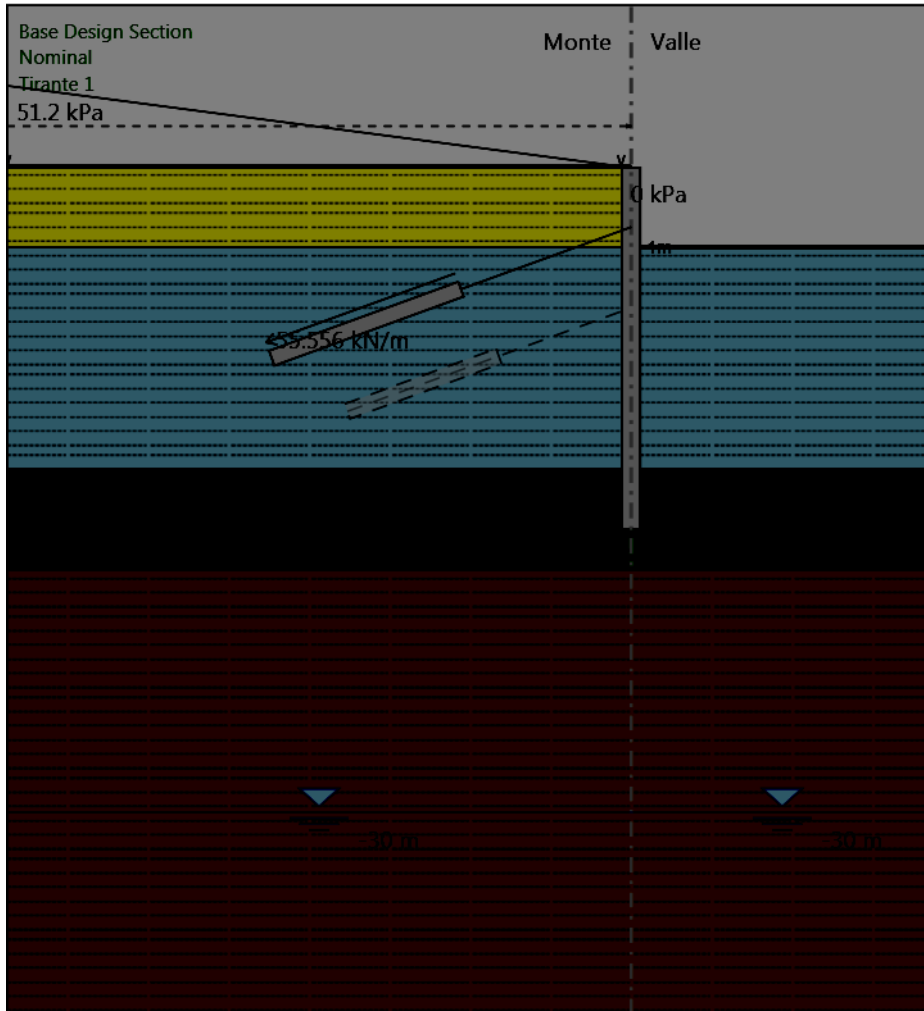
X : 0 m

Quota in alto : 2 m

Quota di fondo : -16 m

Sezione : PALI_Fi1000/1200

Tirante 1



Tirante 1

Scavo

Muro di sinistra

Lato monte : 2 m

Lato valle : -2 m

Linea di scavo di sinistra (Orizzontale)

2 m

Linea di scavo di destra (Orizzontale)

-2 m

Falda acquifera

Falda di sinistra : -30 m

Falda di destra : -30 m

Carichi

Carico lineare in superficie : SurfaceSurcharge

X iniziale : -0.5 m

X finale : -31 m

Pressione iniziale : 0 kPa

Pressione finale : 51.2 kPa

Elementi strutturali

Paratia : WallElement

X : 0 m

Quota in alto : 2 m

Quota di fondo : -16 m

Sezione : PALI_Fi1000/1200

Tirante : Tieback

X : 0 m

Z : -1 m

Lunghezza bulbo : 10 m

Diametro bulbo : 0.14 m

Lunghezza libera : 9 m

Precarico : 200 kN

Angolo : 20 °

Sezione : Trefoli 3

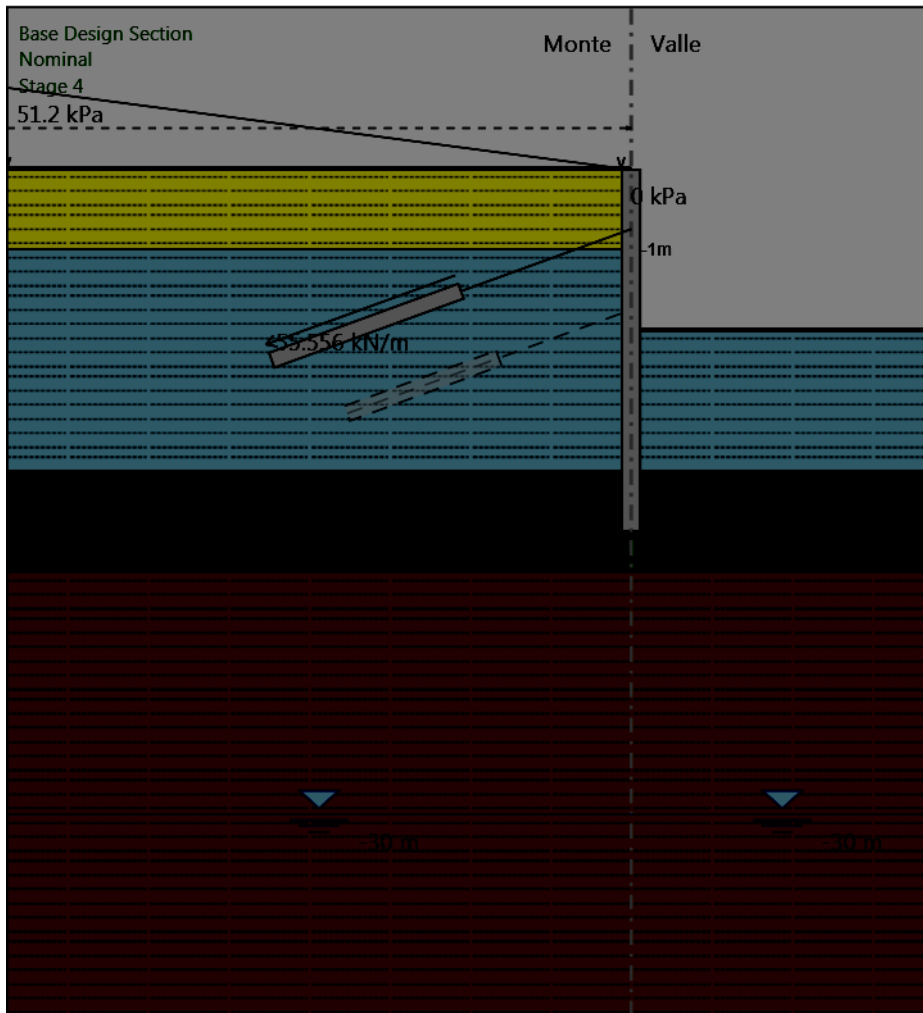
Tipo di barre : Barre trefoli

Numero di barre : 3

Diametro : 0.01331 m

Area : 0.000417 m²

Stage 4



Stage 4

Scavo

Muro di sinistra

Lato monte : 2 m

Lato valle : -6 m

Linea di scavo di sinistra (Orizzontale)

2 m

Linea di scavo di destra (Orizzontale)

-6 m

Falda acquifera

Falda di sinistra : -30 m

Falda di destra : -30 m

Carichi

Carico lineare in superficie : SurfaceSurcharge

X iniziale : -0.5 m

X finale : -31 m

Pressione iniziale : 0 kPa

Pressione finale : 51.2 kPa

Elementi strutturali

Paratia : WallElement

X : 0 m

Quota in alto : 2 m

Quota di fondo : -16 m

Sezione : PALI_Fi1000/1200

Tirante : Tieback

X : 0 m

Z : -1 m

Lunghezza bulbo : 10 m

Diametro bulbo : 0.14 m

Lunghezza libera : 9 m

Precarico : 200 kN

Angolo : 20 °

Sezione : Trefoli 3

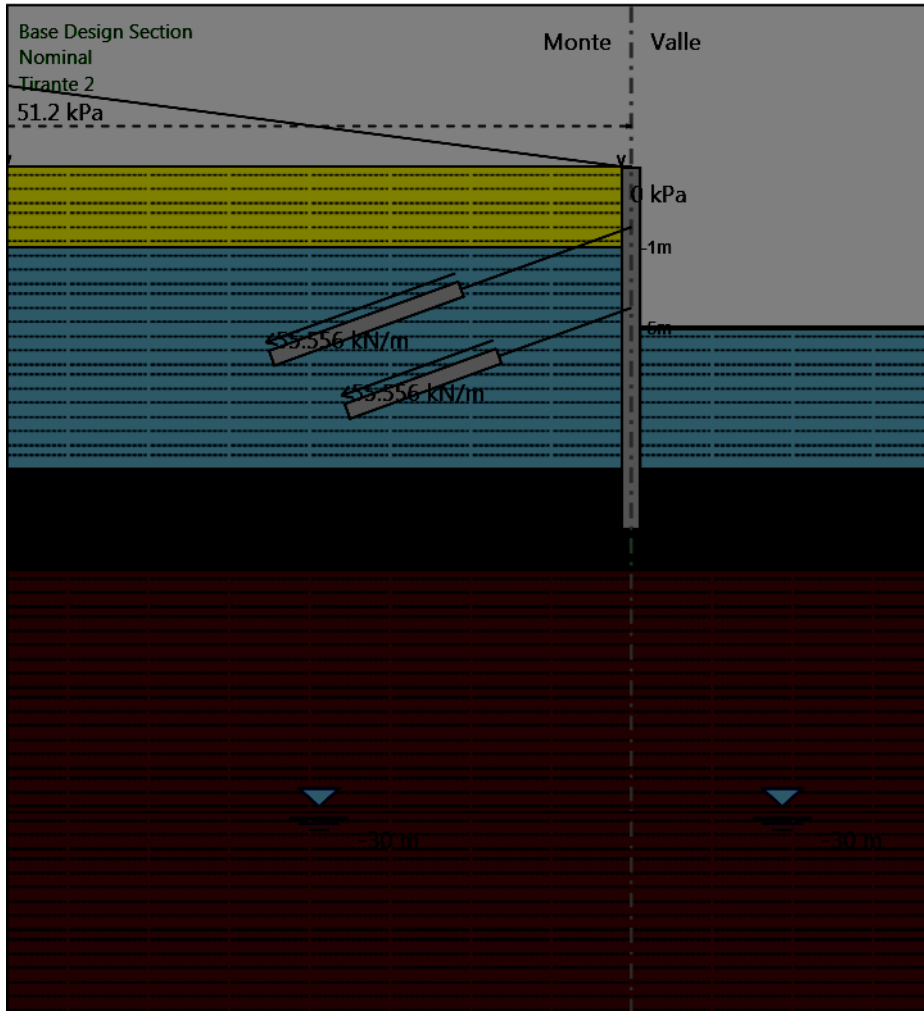
Tipo di barre : Barre trefoli

Numero di barre : 3

Diametro : 0.01331 m

Area : 0.000417 m²

Tirante 2



Tirante 2

Scavo

Muro di sinistra

Lato monte : 2 m

Lato valle : -6 m

Linea di scavo di sinistra (Orizzontale)

2 m

Linea di scavo di destra (Orizzontale)

-6 m

Falda acquifera

Falda di sinistra : -30 m

Falda di destra : -30 m

Carichi

Carico lineare in superficie : SurfaceSurcharge

X iniziale : -0.5 m

X finale : -31 m

Pressione iniziale : 0 kPa

Pressione finale : 51.2 kPa

Elementi strutturali

Paratia : WallElement

X : 0 m

Quota in alto : 2 m

Quota di fondo : -16 m

Sezione : PALI_Fi1000/1200

Tirante : Tieback

X : 0 m

Z : -1 m

Lunghezza bulbo : 10 m

Diametro bulbo : 0.14 m

Lunghezza libera : 9 m

Precarico : 200 kN

Angolo : 20 °

Sezione : Trefoli 3

Tipo di barre : Barre trefoli

Numero di barre : 3

Diametro : 0.01331 m

Area : 0.000417 m²

Tirante : Tieback

X : 0 m

Z : -5 m

Lunghezza bulbo : 8 m

Diametro bulbo : 0.14 m

Lunghezza libera : 7 m

Precarico : 200 kN

Angolo : 20 °

Sezione : Trefoli 3

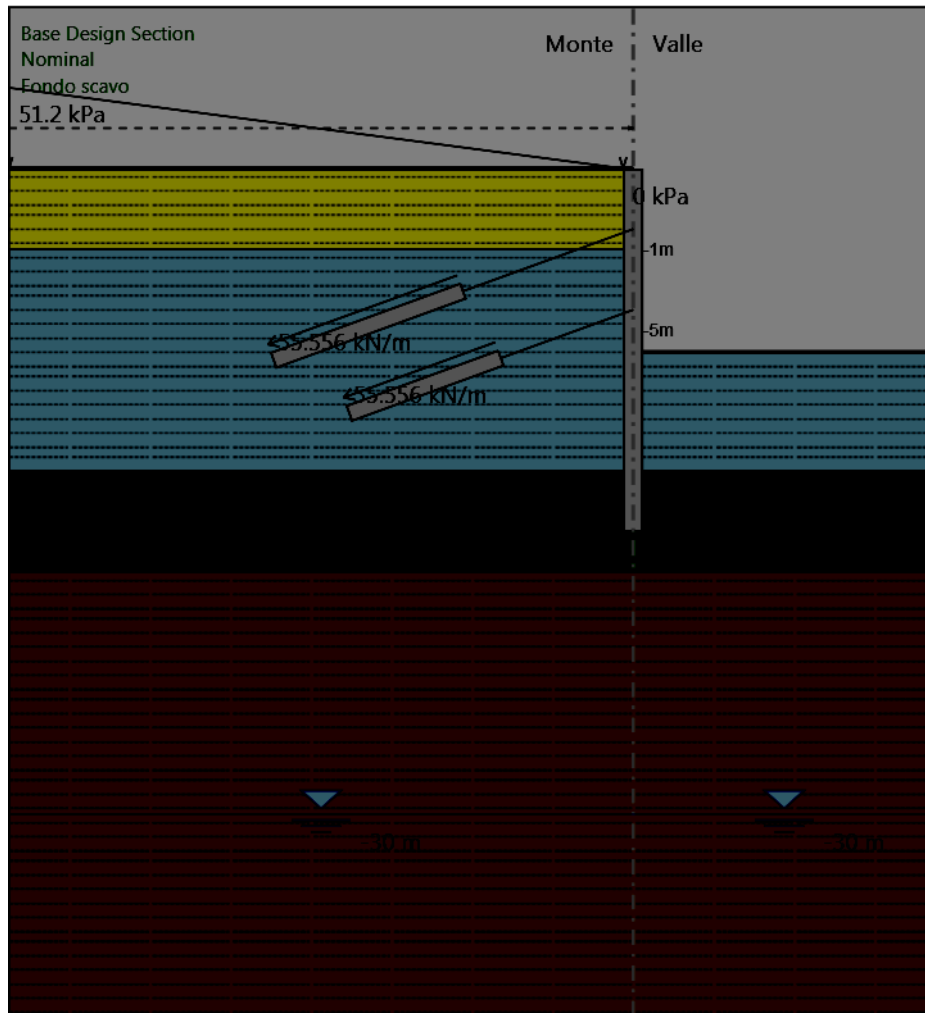
Tipo di barre : Barre trefoli

Numero di barre : 3

Diametro : 0.01331 m

Area : 0.000417 m²

Fondo scavo



Fondo scavo

Scavo

Muro di sinistra

Lato monte : 2 m

Lato valle : -7.1 m

Linea di scavo di sinistra (Orizzontale)

2 m

Linea di scavo di destra (Orizzontale)

-7.1 m

Falda acquifera

Falda di sinistra : -30 m

Falda di destra : -30 m

Carichi

Carico lineare in superficie : SurfaceSurcharge

X iniziale : -0.5 m

X finale : -31 m

Pressione iniziale : 0 kPa

Pressione finale : 51.2 kPa

Elementi strutturali

Paratia : WallElement

X : 0 m

Quota in alto : 2 m

Quota di fondo : -16 m

Sezione : PALI_Fi1000/1200

Tirante : Tieback

X : 0 m

Z : -1 m

Lunghezza bulbo : 10 m

Diametro bulbo : 0.14 m

Lunghezza libera : 9 m

Precarico : 200 kN

Angolo : 20 °

Sezione : Trefoli 3

Tipo di barre : Barre trefoli

Numero di barre : 3

Diametro : 0.01331 m

Area : 0.000417 m²

Tirante : Tieback

X : 0 m

Z : -5 m

Lunghezza bulbo : 8 m

Diametro bulbo : 0.14 m

Lunghezza libera : 7 m

Precarico : 200 kN

Angolo : 20 °

Sezione : Trefoli 3

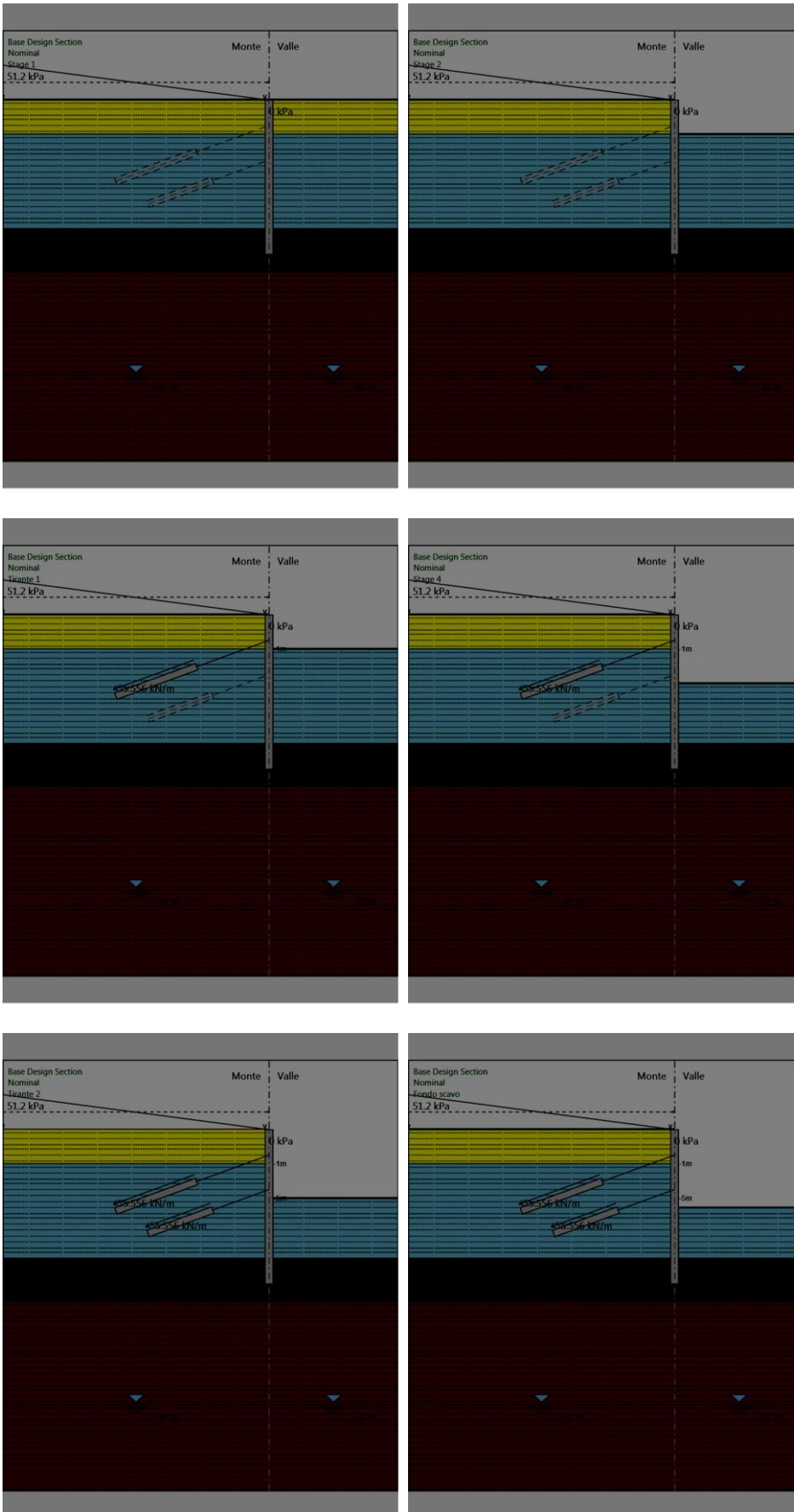
Tipo di barre : Barre trefoli

Numero di barre : 3

Diametro : 0.01331 m

Area : 0.000417 m²

Tabella Configurazione Stage (Nominal)



Grafici dei Risultati

Design Assumption : Nominal

Tabella Spostamento Nominal - LEFT Stage: Stage 1

Design Assumption: Nominal	Tipo Risultato: Spostamento	Muro: LEFT
Stage	Z (m)	Spostamento (mm)
Stage 1	2	0
Stage 1	1.8	0
Stage 1	1.6	0
Stage 1	1.4	0
Stage 1	1.2	0
Stage 1	1	0
Stage 1	0.8	0
Stage 1	0.6	0
Stage 1	0.4	0
Stage 1	0.2	0
Stage 1	0	0
Stage 1	-0.2	0
Stage 1	-0.4	0
Stage 1	-0.6	0
Stage 1	-0.8	0
Stage 1	-1	0
Stage 1	-1.2	0
Stage 1	-1.4	0
Stage 1	-1.6	0
Stage 1	-1.8	0
Stage 1	-2	0
Stage 1	-2.2	0
Stage 1	-2.4	0
Stage 1	-2.6	0
Stage 1	-2.8	0
Stage 1	-3	0
Stage 1	-3.2	0
Stage 1	-3.4	0
Stage 1	-3.6	0
Stage 1	-3.8	0
Stage 1	-4	0
Stage 1	-4.2	0
Stage 1	-4.4	0
Stage 1	-4.6	0
Stage 1	-4.8	0
Stage 1	-5	0
Stage 1	-5.2	0
Stage 1	-5.4	0
Stage 1	-5.6	0
Stage 1	-5.8	0
Stage 1	-6	0
Stage 1	-6.2	0
Stage 1	-6.4	0
Stage 1	-6.6	0
Stage 1	-6.8	0
Stage 1	-7	0
Stage 1	-7.2	0
Stage 1	-7.4	0
Stage 1	-7.6	0
Stage 1	-7.8	0
Stage 1	-8	0
Stage 1	-8.2	0
Stage 1	-8.4	0
Stage 1	-8.6	0
Stage 1	-8.8	0
Stage 1	-9	0
Stage 1	-9.2	0
Stage 1	-9.4	0
Stage 1	-9.6	0
Stage 1	-9.8	0
Stage 1	-10	0

Design Assumption: Nominal Tipo Risultato: Spostamento			Muro: LEFT
Stage	Z (m)	Spostamento (mm)	
Stage 1	-10.2	0	
Stage 1	-10.4	0	
Stage 1	-10.6	0	
Stage 1	-10.8	0	
Stage 1	-11	0	
Stage 1	-11.2	0	
Stage 1	-11.4	0	
Stage 1	-11.6	0	
Stage 1	-11.8	0	
Stage 1	-12	0	
Stage 1	-12.2	0	
Stage 1	-12.4	0	
Stage 1	-12.6	0	
Stage 1	-12.8	0	
Stage 1	-13	0	
Stage 1	-13.2	0	
Stage 1	-13.4	0	
Stage 1	-13.6	0	
Stage 1	-13.8	0	
Stage 1	-14	0	
Stage 1	-14.2	0	
Stage 1	-14.4	0	
Stage 1	-14.6	0	
Stage 1	-14.8	0	
Stage 1	-15	0	
Stage 1	-15.2	0	
Stage 1	-15.4	0	
Stage 1	-15.6	0	
Stage 1	-15.8	0	
Stage 1	-16	0	

Tabella Spostamento Nominal - LEFT Stage: Stage 2

Design Assumption: Nominal	Tipo Risultato: Spostamento	Muro: LEFT
Stage	Z (m)	Spostamento (mm)
Stage 2	2	10.61
Stage 2	1.8	10.31
Stage 2	1.6	10.01
Stage 2	1.4	9.71
Stage 2	1.2	9.41
Stage 2	1	9.12
Stage 2	0.8	8.82
Stage 2	0.6	8.52
Stage 2	0.4	8.22
Stage 2	0.2	7.93
Stage 2	0	7.63
Stage 2	-0.2	7.33
Stage 2	-0.4	7.04
Stage 2	-0.6	6.74
Stage 2	-0.8	6.45
Stage 2	-1	6.16
Stage 2	-1.2	5.87
Stage 2	-1.4	5.58
Stage 2	-1.6	5.29
Stage 2	-1.8	5.01
Stage 2	-2	4.73
Stage 2	-2.2	4.45
Stage 2	-2.4	4.18
Stage 2	-2.6	3.92
Stage 2	-2.8	3.66
Stage 2	-3	3.4
Stage 2	-3.2	3.16
Stage 2	-3.4	2.92
Stage 2	-3.6	2.69
Stage 2	-3.8	2.46
Stage 2	-4	2.25
Stage 2	-4.2	2.05
Stage 2	-4.4	1.85
Stage 2	-4.6	1.67
Stage 2	-4.8	1.49
Stage 2	-5	1.33
Stage 2	-5.2	1.17
Stage 2	-5.4	1.02
Stage 2	-5.6	0.88
Stage 2	-5.8	0.76
Stage 2	-6	0.64
Stage 2	-6.2	0.53
Stage 2	-6.4	0.43
Stage 2	-6.6	0.33
Stage 2	-6.8	0.25
Stage 2	-7	0.17
Stage 2	-7.2	0.1
Stage 2	-7.4	0.03
Stage 2	-7.6	-0.02
Stage 2	-7.8	-0.07
Stage 2	-8	-0.12
Stage 2	-8.2	-0.16
Stage 2	-8.4	-0.19
Stage 2	-8.6	-0.22
Stage 2	-8.8	-0.25
Stage 2	-9	-0.27
Stage 2	-9.2	-0.28
Stage 2	-9.4	-0.3
Stage 2	-9.6	-0.31
Stage 2	-9.8	-0.31
Stage 2	-10	-0.32
Stage 2	-10.2	-0.32
Stage 2	-10.4	-0.32
Stage 2	-10.6	-0.32
Stage 2	-10.8	-0.31
Stage 2	-11	-0.31
Stage 2	-11.2	-0.3

Design Assumption: Nominal Tipo Risultato: Spostamento Muro: LEFT		
Stage	Z (m)	Spostamento (mm)
Stage 2	-11.4	-0.29
Stage 2	-11.6	-0.28
Stage 2	-11.8	-0.27
Stage 2	-12	-0.26
Stage 2	-12.2	-0.24
Stage 2	-12.4	-0.23
Stage 2	-12.6	-0.22
Stage 2	-12.8	-0.2
Stage 2	-13	-0.19
Stage 2	-13.2	-0.17
Stage 2	-13.4	-0.16
Stage 2	-13.6	-0.14
Stage 2	-13.8	-0.13
Stage 2	-14	-0.11
Stage 2	-14.2	-0.1
Stage 2	-14.4	-0.08
Stage 2	-14.6	-0.07
Stage 2	-14.8	-0.05
Stage 2	-15	-0.04
Stage 2	-15.2	-0.02
Stage 2	-15.4	-0.01
Stage 2	-15.6	0.01
Stage 2	-15.8	0.02
Stage 2	-16	0.04

Tabella Spostamento Nominal - LEFT Stage: Tirante 1

Design Assumption: Nominal	Tipo Risultato: Spostamento	Muro: LEFT
Stage	Z (m)	Spostamento (mm)
Tirante 1	2	9.39
Tirante 1	1.8	9.12
Tirante 1	1.6	8.85
Tirante 1	1.4	8.59
Tirante 1	1.2	8.32
Tirante 1	1	8.06
Tirante 1	0.8	7.8
Tirante 1	0.6	7.53
Tirante 1	0.4	7.27
Tirante 1	0.2	7
Tirante 1	0	6.74
Tirante 1	-0.2	6.48
Tirante 1	-0.4	6.21
Tirante 1	-0.6	5.95
Tirante 1	-0.8	5.7
Tirante 1	-1	5.44
Tirante 1	-1.2	5.18
Tirante 1	-1.4	4.93
Tirante 1	-1.6	4.68
Tirante 1	-1.8	4.44
Tirante 1	-2	4.19
Tirante 1	-2.2	3.95
Tirante 1	-2.4	3.72
Tirante 1	-2.6	3.49
Tirante 1	-2.8	3.26
Tirante 1	-3	3.04
Tirante 1	-3.2	2.82
Tirante 1	-3.4	2.62
Tirante 1	-3.6	2.41
Tirante 1	-3.8	2.22
Tirante 1	-4	2.03
Tirante 1	-4.2	1.85
Tirante 1	-4.4	1.68
Tirante 1	-4.6	1.52
Tirante 1	-4.8	1.36
Tirante 1	-5	1.21
Tirante 1	-5.2	1.07
Tirante 1	-5.4	0.94
Tirante 1	-5.6	0.82
Tirante 1	-5.8	0.71
Tirante 1	-6	0.6
Tirante 1	-6.2	0.5
Tirante 1	-6.4	0.41
Tirante 1	-6.6	0.33
Tirante 1	-6.8	0.25
Tirante 1	-7	0.18
Tirante 1	-7.2	0.11
Tirante 1	-7.4	0.05
Tirante 1	-7.6	0
Tirante 1	-7.8	-0.04
Tirante 1	-8	-0.09
Tirante 1	-8.2	-0.12
Tirante 1	-8.4	-0.15
Tirante 1	-8.6	-0.18
Tirante 1	-8.8	-0.21
Tirante 1	-9	-0.23
Tirante 1	-9.2	-0.24
Tirante 1	-9.4	-0.26
Tirante 1	-9.6	-0.27
Tirante 1	-9.8	-0.27
Tirante 1	-10	-0.28
Tirante 1	-10.2	-0.28
Tirante 1	-10.4	-0.28
Tirante 1	-10.6	-0.28
Tirante 1	-10.8	-0.28
Tirante 1	-11	-0.27
Tirante 1	-11.2	-0.27

Design Assumption: Nominal Tipo Risultato: Spostamento		
Stage	Z (m)	Muro: LEFT Spostamento (mm)
Tirante 1	-11.4	-0.26
Tirante 1	-11.6	-0.25
Tirante 1	-11.8	-0.24
Tirante 1	-12	-0.23
Tirante 1	-12.2	-0.22
Tirante 1	-12.4	-0.21
Tirante 1	-12.6	-0.2
Tirante 1	-12.8	-0.18
Tirante 1	-13	-0.17
Tirante 1	-13.2	-0.16
Tirante 1	-13.4	-0.15
Tirante 1	-13.6	-0.13
Tirante 1	-13.8	-0.12
Tirante 1	-14	-0.11
Tirante 1	-14.2	-0.09
Tirante 1	-14.4	-0.08
Tirante 1	-14.6	-0.06
Tirante 1	-14.8	-0.05
Tirante 1	-15	-0.04
Tirante 1	-15.2	-0.02
Tirante 1	-15.4	-0.01
Tirante 1	-15.6	0
Tirante 1	-15.8	0.02
Tirante 1	-16	0.03

Tabella Spostamento Nominal - LEFT Stage: Stage 4

Design Assumption: Nominal Tipo Risultato: Spostamento Muro: LEFT		
Stage	Z (m)	Spostamento (mm)
Stage 4	2	77.9
Stage 4	1.8	76.67
Stage 4	1.6	75.43
Stage 4	1.4	74.2
Stage 4	1.2	72.97
Stage 4	1	71.74
Stage 4	0.8	70.51
Stage 4	0.6	69.27
Stage 4	0.4	68.04
Stage 4	0.2	66.81
Stage 4	0	65.58
Stage 4	-0.2	64.35
Stage 4	-0.4	63.12
Stage 4	-0.6	61.89
Stage 4	-0.8	60.66
Stage 4	-1	59.44
Stage 4	-1.2	58.21
Stage 4	-1.4	56.99
Stage 4	-1.6	55.76
Stage 4	-1.8	54.54
Stage 4	-2	53.32
Stage 4	-2.2	52.1
Stage 4	-2.4	50.88
Stage 4	-2.6	49.66
Stage 4	-2.8	48.44
Stage 4	-3	47.23
Stage 4	-3.2	46.01
Stage 4	-3.4	44.79
Stage 4	-3.6	43.58
Stage 4	-3.8	42.36
Stage 4	-4	41.15
Stage 4	-4.2	39.94
Stage 4	-4.4	38.73
Stage 4	-4.6	37.52
Stage 4	-4.8	36.32
Stage 4	-5	35.12
Stage 4	-5.2	33.93
Stage 4	-5.4	32.74
Stage 4	-5.6	31.56
Stage 4	-5.8	30.38
Stage 4	-6	29.22
Stage 4	-6.2	28.06
Stage 4	-6.4	26.91
Stage 4	-6.6	25.77
Stage 4	-6.8	24.65
Stage 4	-7	23.54
Stage 4	-7.2	22.44
Stage 4	-7.4	21.36
Stage 4	-7.6	20.3
Stage 4	-7.8	19.26
Stage 4	-8	18.23
Stage 4	-8.2	17.23
Stage 4	-8.4	16.25
Stage 4	-8.6	15.29
Stage 4	-8.8	14.35
Stage 4	-9	13.44
Stage 4	-9.2	12.56
Stage 4	-9.4	11.7
Stage 4	-9.6	10.87
Stage 4	-9.8	10.06
Stage 4	-10	9.28
Stage 4	-10.2	8.52
Stage 4	-10.4	7.79
Stage 4	-10.6	7.09
Stage 4	-10.8	6.41
Stage 4	-11	5.76
Stage 4	-11.2	5.13

Design Assumption: Nominal Tipo Risultato: Spostamento Muro: LEFT		
Stage	Z (m)	Spostamento (mm)
Stage 4	-11.4	4.52
Stage 4	-11.6	3.94
Stage 4	-11.8	3.38
Stage 4	-12	2.83
Stage 4	-12.2	2.31
Stage 4	-12.4	1.81
Stage 4	-12.6	1.32
Stage 4	-12.8	0.85
Stage 4	-13	0.39
Stage 4	-13.2	-0.05
Stage 4	-13.4	-0.49
Stage 4	-13.6	-0.91
Stage 4	-13.8	-1.32
Stage 4	-14	-1.72
Stage 4	-14.2	-2.12
Stage 4	-14.4	-2.51
Stage 4	-14.6	-2.9
Stage 4	-14.8	-3.28
Stage 4	-15	-3.66
Stage 4	-15.2	-4.04
Stage 4	-15.4	-4.41
Stage 4	-15.6	-4.79
Stage 4	-15.8	-5.16
Stage 4	-16	-5.54

Tabella Spostamento Nominal - LEFT Stage: Tirante 2

Design Assumption: Nominal	Tipo Risultato: Spostamento	Muro: LEFT
Stage	Z (m)	Spostamento (mm)
Tirante 2	2	77.54
Tirante 2	1.8	76.31
Tirante 2	1.6	75.07
Tirante 2	1.4	73.83
Tirante 2	1.2	72.59
Tirante 2	1	71.35
Tirante 2	0.8	70.11
Tirante 2	0.6	68.87
Tirante 2	0.4	67.64
Tirante 2	0.2	66.4
Tirante 2	0	65.16
Tirante 2	-0.2	63.92
Tirante 2	-0.4	62.69
Tirante 2	-0.6	61.45
Tirante 2	-0.8	60.22
Tirante 2	-1	58.99
Tirante 2	-1.2	57.75
Tirante 2	-1.4	56.53
Tirante 2	-1.6	55.3
Tirante 2	-1.8	54.07
Tirante 2	-2	52.84
Tirante 2	-2.2	51.62
Tirante 2	-2.4	50.4
Tirante 2	-2.6	49.17
Tirante 2	-2.8	47.95
Tirante 2	-3	46.73
Tirante 2	-3.2	45.51
Tirante 2	-3.4	44.29
Tirante 2	-3.6	43.07
Tirante 2	-3.8	41.86
Tirante 2	-4	40.65
Tirante 2	-4.2	39.44
Tirante 2	-4.4	38.23
Tirante 2	-4.6	37.03
Tirante 2	-4.8	35.83
Tirante 2	-5	34.64
Tirante 2	-5.2	33.45
Tirante 2	-5.4	32.28
Tirante 2	-5.6	31.1
Tirante 2	-5.8	29.94
Tirante 2	-6	28.79
Tirante 2	-6.2	27.64
Tirante 2	-6.4	26.51
Tirante 2	-6.6	25.39
Tirante 2	-6.8	24.28
Tirante 2	-7	23.18
Tirante 2	-7.2	22.1
Tirante 2	-7.4	21.04
Tirante 2	-7.6	19.99
Tirante 2	-7.8	18.96
Tirante 2	-8	17.96
Tirante 2	-8.2	16.97
Tirante 2	-8.4	16
Tirante 2	-8.6	15.06
Tirante 2	-8.8	14.14
Tirante 2	-9	13.24
Tirante 2	-9.2	12.37
Tirante 2	-9.4	11.53
Tirante 2	-9.6	10.71
Tirante 2	-9.8	9.91
Tirante 2	-10	9.14
Tirante 2	-10.2	8.4
Tirante 2	-10.4	7.68
Tirante 2	-10.6	6.99
Tirante 2	-10.8	6.32
Tirante 2	-11	5.68
Tirante 2	-11.2	5.05

Design Assumption: Nominal Tipo Risultato: Spostamento Muro: LEFT		
Stage	Z (m)	Spostamento (mm)
Tirante 2	-11.4	4.46
Tirante 2	-11.6	3.88
Tirante 2	-11.8	3.33
Tirante 2	-12	2.79
Tirante 2	-12.2	2.28
Tirante 2	-12.4	1.78
Tirante 2	-12.6	1.3
Tirante 2	-12.8	0.84
Tirante 2	-13	0.39
Tirante 2	-13.2	-0.05
Tirante 2	-13.4	-0.48
Tirante 2	-13.6	-0.89
Tirante 2	-13.8	-1.3
Tirante 2	-14	-1.7
Tirante 2	-14.2	-2.09
Tirante 2	-14.4	-2.47
Tirante 2	-14.6	-2.85
Tirante 2	-14.8	-3.23
Tirante 2	-15	-3.61
Tirante 2	-15.2	-3.98
Tirante 2	-15.4	-4.35
Tirante 2	-15.6	-4.72
Tirante 2	-15.8	-5.09
Tirante 2	-16	-5.46

Tabella Spostamento Nominal - LEFT Stage: Fondo scavo

Design Assumption: Nominal	Tipo Risultato: Spostamento	Muro: LEFT
Stage	Z (m)	Spostamento (mm)
Fondo scavo	2	101.03
Fondo scavo	1.8	99.61
Fondo scavo	1.6	98.18
Fondo scavo	1.4	96.76
Fondo scavo	1.2	95.34
Fondo scavo	1	93.92
Fondo scavo	0.8	92.5
Fondo scavo	0.6	91.08
Fondo scavo	0.4	89.65
Fondo scavo	0.2	88.23
Fondo scavo	0	86.81
Fondo scavo	-0.2	85.39
Fondo scavo	-0.4	83.97
Fondo scavo	-0.6	82.55
Fondo scavo	-0.8	81.13
Fondo scavo	-1	79.72
Fondo scavo	-1.2	78.3
Fondo scavo	-1.4	76.89
Fondo scavo	-1.6	75.48
Fondo scavo	-1.8	74.07
Fondo scavo	-2	72.65
Fondo scavo	-2.2	71.24
Fondo scavo	-2.4	69.83
Fondo scavo	-2.6	68.42
Fondo scavo	-2.8	67
Fondo scavo	-3	65.59
Fondo scavo	-3.2	64.17
Fondo scavo	-3.4	62.76
Fondo scavo	-3.6	61.34
Fondo scavo	-3.8	59.93
Fondo scavo	-4	58.51
Fondo scavo	-4.2	57.09
Fondo scavo	-4.4	55.68
Fondo scavo	-4.6	54.26
Fondo scavo	-4.8	52.84
Fondo scavo	-5	51.43
Fondo scavo	-5.2	50.02
Fondo scavo	-5.4	48.61
Fondo scavo	-5.6	47.2
Fondo scavo	-5.8	45.79
Fondo scavo	-6	44.39
Fondo scavo	-6.2	42.99
Fondo scavo	-6.4	41.6
Fondo scavo	-6.6	40.2
Fondo scavo	-6.8	38.82
Fondo scavo	-7	37.44
Fondo scavo	-7.2	36.06
Fondo scavo	-7.4	34.7
Fondo scavo	-7.6	33.34
Fondo scavo	-7.8	31.99
Fondo scavo	-8	30.65
Fondo scavo	-8.2	29.33
Fondo scavo	-8.4	28.02
Fondo scavo	-8.6	26.72
Fondo scavo	-8.8	25.43
Fondo scavo	-9	24.17
Fondo scavo	-9.2	22.92
Fondo scavo	-9.4	21.69
Fondo scavo	-9.6	20.47
Fondo scavo	-9.8	19.28
Fondo scavo	-10	18.11
Fondo scavo	-10.2	16.97
Fondo scavo	-10.4	15.84
Fondo scavo	-10.6	14.74
Fondo scavo	-10.8	13.66
Fondo scavo	-11	12.6
Fondo scavo	-11.2	11.57

Design Assumption: Nominal Tipo Risultato: Spostamento Muro: LEFT		
Stage	Z (m)	Spostamento (mm)
Fondo scavo	-11.4	10.56
Fondo scavo	-11.6	9.57
Fondo scavo	-11.8	8.61
Fondo scavo	-12	7.67
Fondo scavo	-12.2	6.74
Fondo scavo	-12.4	5.84
Fondo scavo	-12.6	4.96
Fondo scavo	-12.8	4.1
Fondo scavo	-13	3.25
Fondo scavo	-13.2	2.42
Fondo scavo	-13.4	1.61
Fondo scavo	-13.6	0.8
Fondo scavo	-13.8	0.01
Fondo scavo	-14	-0.77
Fondo scavo	-14.2	-1.54
Fondo scavo	-14.4	-2.3
Fondo scavo	-14.6	-3.06
Fondo scavo	-14.8	-3.81
Fondo scavo	-15	-4.56
Fondo scavo	-15.2	-5.3
Fondo scavo	-15.4	-6.05
Fondo scavo	-15.6	-6.79
Fondo scavo	-15.8	-7.53
Fondo scavo	-16	-8.27

Inviluppi Spostamento Nominal

Tabella Inviluppi Spostamento Nominal Left Wall

Risultato	Inviluppi	Spostamento
Left Wall	Muro Left Wall	
2	0	101.028
1.8	0	99.606
1.6	0	98.185
1.4	0	96.763
1.2	0	95.341
1	0	93.919
0.8	0	92.497
0.6	0	91.075
0.4	0	89.654
0.2	0	88.233
0	0	86.812
-0.2	0	85.391
-0.4	0	83.972
-0.6	0	82.553
-0.8	0	81.135
-1	0	79.719
-1.2	0	78.304
-1.4	0	76.89
-1.6	0	75.478
-1.8	0	74.065
-2	0	72.653
-2.2	0	71.241
-2.4	0	69.829
-2.6	0	68.416
-2.8	0	67.003
-3	0	65.589
-3.2	0	64.174
-3.4	0	62.758
-3.6	0	61.342
-3.8	0	59.926
-4	0	58.509
-4.2	0	57.092
-4.4	0	55.675
-4.6	0	54.259
-4.8	0	52.843
-5	0	51.429
-5.2	0	50.017
-5.4	0	48.607
-5.6	0	47.199
-5.8	0	45.793
-6	0	44.391
-6.2	0	42.991
-6.4	0	41.596
-6.6	0	40.204
-6.8	0	38.818
-7	0	37.438
-7.2	0	36.064
-7.4	0	34.697
-7.467	0	0
-7.521	0	0
-7.6	-0.023	33.34
-7.8	-0.073	31.991
-8	-0.118	30.654
-8.2	-0.158	29.328
-8.4	-0.192	28.015
-8.6	-0.222	26.717
-8.8	-0.247	25.434
-9	-0.267	24.167
-9.2	-0.284	22.917
-9.4	-0.297	21.686
-9.6	-0.307	20.475
-9.8	-0.314	19.284
-10	-0.318	18.114
-10.2	-0.32	16.966

Risultato	Inviluppi	Spostamento
Left Wall	Muro Left Wall	
-10.4	-0.319	15.84
-10.6	-0.317	14.737
-10.8	-0.312	13.658
-11	-0.306	12.602
-11.2	-0.298	11.569
-11.4	-0.29	10.559
-11.6	-0.279	9.573
-11.8	-0.268	8.608
-12	-0.257	7.665
-12.2	-0.244	6.744
-12.4	-0.231	5.843
-12.6	-0.217	4.961
-12.8	-0.203	4.097
-13	-0.188	3.251
-13.2	-0.174	2.421
-13.4	-0.485	1.605
-13.6	-0.906	0.803
-13.8	-1.318	0.013
-14	-1.722	0
-14.2	-2.118	0
-14.4	-2.509	0
-14.6	-3.058	0
-14.8	-3.81	0
-15	-4.558	0
-15.152	0	0
-15.2	-5.303	0
-15.4	-6.046	0
-15.476	0	0
-15.6	-6.788	0.009
-15.8	-7.53	0.025
-16	-8.272	0.04

Riepilogo spinte

Design Assumption: Tipo Risultato: Riepilogo spinte		Muro:	LEFT	Lato	LEFT		
Nominal 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
Stage 1	2011	0	2011	1301.1	9813.6	20.49%	1.55
Stage 2	1907.3	0	1907.3	1301.1	9813.6	19.44%	1.47
Tirante 1	1944.2	0	1944.2	1301.1	9813.6	19.81%	1.49
Stage 4	1696.4	0	1696.4	1301.1	9813.6	17.29%	1.3
Tirante 2	1737.8	0	1737.8	1301.1	9813.6	17.71%	1.34
Fondo scavo	1646.9	0	1646.9	1301.1	9813.6	16.78%	1.27

Design Assumption: Tipo Risultato: Riepilogo spinte		Muro:	LEFT	Lato	RIGHT		
Nominal 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
Stage 1	2011	0	2011	1299.6	9804.4	20.51%	1.55
Stage 2	1907.3	0	1907.3	729.6	6078.1	31.38%	2.61
Tirante 1	1892	0	1892	729.6	6078.1	31.13%	2.59
Stage 4	1586	0	1586	330.4	3138.5	50.53%	4.8
Tirante 2	1575.7	0	1575.7	330.4	3138.5	50.21%	4.77
Fondo scavo	1439.6	0	1439.6	243.6	2510.3	57.35%	5.91

Allegati

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

```
* PARATIE ANALYSIS FOR DESIGN SECTION:Base Design Section USING ASSUMPTION: Nominal
* Time:lunedì 29 giugno 2020 21:03:21
* 1: Defining general settings
UNIT m kN
TITLE New Project
DELTA 0.2
option param itemax 40

* 2: Defining wall(s)
WALL LeftWall_29 0 -16 2 1

* 3: Defining surfaces for wall(s)
SOIL 0_L LeftWall_29 -16 2 1 0
SOIL 0_R LeftWall_29 -16 2 2 180

* 4: Defining soil layers
*
* Soil Profile (FRANA_334_8_L_0)
*
LDATA FRANA_334_8_L_0 2 LeftWall_29
ATREST 0.758 1 1
WEIGHT 20 10 10
PERMEABILITY 1E-05
RESISTANCE 0 14
YOUNG 1.5E+04 2.4E+04
ENDDL
*
* Soil Profile (BNA3(2)_335_337_L_0)
*
LDATA BNA3(2)_335_337_L_0 -2 LeftWall_29
ATREST 0.581 1 1
WEIGHT 20 10 10
PERMEABILITY 1E-05
RESISTANCE 2 24.8
YOUNG 5E+04 8E+04
ENDDL
*
* Soil Profile (BNA3(3)_336_338_L_0)
*
LDATA BNA3(3)_336_338_L_0 -13 LeftWall_29
ATREST 0.65 1 1
WEIGHT 20 10 10
PERMEABILITY 1E-05
RESISTANCE 24 20.5
YOUNG 7.5E+04 1.2E+05
ENDDL

* 5: Defining structural materials
* Steel material: 2753 Name=Fe360 E=206000200 kPa
MATERIAL Fe360_2753 2.06E+08
* Concrete material: 101 Name=C25/30 E=31475800 kPa
MATERIAL C2530_101 3.148E+07
* Rebar material: 110 Name=acciaio armonico E=200100000 kPa
MATERIAL acciaioarmonico_110 2.001E+08

* 6: Defining structural elements
* 6.1: Beams
BEAM WallElement_30 LeftWall_29 -16 2 C2530_101 0.7888 00 00

* 6.2: Supports
WIRE Tieback_341 LeftWall_29 -1 acciaioarmonico_110 6.096E-06 55.56 20 0 0
WIRE Tieback_342 LeftWall_29 -5 acciaioarmonico_110 7.722E-06 55.56 20 0 0

* 6.3: Strips
STRIP LeftWall_29 1 6 31 30.5 2 25.6 45

* 7: Defining Steps
STEP Stage1_28
CHANGE FRANA_334_8_L_0 U-FRICT=14 LeftWall_29
CHANGE FRANA_334_8_L_0 D-FRICT=14 LeftWall_29
CHANGE FRANA_334_8_L_0 U-KA=0.61 LeftWall_29
CHANGE FRANA_334_8_L_0 U-KP=1.85 LeftWall_29
CHANGE FRANA_334_8_L_0 D-KA=0.61 LeftWall_29
CHANGE FRANA_334_8_L_0 D-KP=1.85 LeftWall_29
CHANGE BNA3(2)_335_337_L_0 U-FRICT=24.8 LeftWall_29
CHANGE BNA3(2)_335_337_L_0 D-FRICT=24.8 LeftWall_29
CHANGE BNA3(2)_335_337_L_0 U-KA=0.409 LeftWall_29
CHANGE BNA3(2)_335_337_L_0 U-KP=3.187 LeftWall_29
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CHANGE BNA3(2)_335_337_L_0 D-KA=0.409 LeftWall_29
CHANGE BNA3(2)_335_337_L_0 D-KP=3.187 LeftWall_29
CHANGE BNA3(3)_336_338_L_0 U-FRICT=20.5 LeftWall_29
CHANGE BNA3(3)_336_338_L_0 D-FRICT=20.5 LeftWall_29
CHANGE BNA3(3)_336_338_L_0 U-KA=0.481 LeftWall_29
CHANGE BNA3(3)_336_338_L_0 U-KP=2.541 LeftWall_29
CHANGE BNA3(3)_336_338_L_0 D-KA=0.481 LeftWall_29
CHANGE BNA3(3)_336_338_L_0 D-KP=2.541 LeftWall_29
CHANGE FRANA_334_8_L_0 U-COHE=0 LeftWall_29
CHANGE FRANA_334_8_L_0 D-COHE=0 LeftWall_29
CHANGE BNA3(2)_335_337_L_0 U-COHE=2 LeftWall_29
CHANGE BNA3(2)_335_337_L_0 D-COHE=2 LeftWall_29
CHANGE BNA3(3)_336_338_L_0 U-COHE=24 LeftWall_29
CHANGE BNA3(3)_336_338_L_0 D-COHE=24 LeftWall_29
SETWALL LeftWall_29
GEOM 2 2
WATER -30 0 -16 0 0
ADD WallElement_30
ENDSTEP

STEP Stage2_344
CHANGE FRANA_334_8_L_0 D-FRICT=14 LeftWall_29
CHANGE BNA3(2)_335_337_L_0 D-FRICT=24.8 LeftWall_29
CHANGE BNA3(3)_336_338_L_0 D-FRICT=20.5 LeftWall_29
CHANGE FRANA_334_8_L_0 D-COHE=0 LeftWall_29
CHANGE BNA3(2)_335_337_L_0 D-COHE=2 LeftWall_29
CHANGE BNA3(3)_336_338_L_0 D-COHE=24 LeftWall_29
SETWALL LeftWall_29
GEOM 2 -2
WATER -30 0 -16 0 0
ENDSTEP

STEP Tirante1_1139
CHANGE FRANA_334_8_L_0 D-FRICT=14 LeftWall_29
CHANGE BNA3(2)_335_337_L_0 D-FRICT=24.8 LeftWall_29
CHANGE BNA3(3)_336_338_L_0 D-FRICT=20.5 LeftWall_29
CHANGE FRANA_334_8_L_0 D-COHE=0 LeftWall_29
CHANGE BNA3(2)_335_337_L_0 D-COHE=2 LeftWall_29
CHANGE BNA3(3)_336_338_L_0 D-COHE=24 LeftWall_29
SETWALL LeftWall_29
GEOM 2 -2
WATER -30 0 -16 0 0
ADD Tieback_341
ENDSTEP

STEP Stage4_1238
CHANGE FRANA_334_8_L_0 D-FRICT=14 LeftWall_29
CHANGE BNA3(2)_335_337_L_0 D-FRICT=24.8 LeftWall_29
CHANGE BNA3(3)_336_338_L_0 D-FRICT=20.5 LeftWall_29
CHANGE FRANA_334_8_L_0 D-COHE=0 LeftWall_29
CHANGE BNA3(2)_335_337_L_0 D-COHE=2 LeftWall_29
CHANGE BNA3(3)_336_338_L_0 D-COHE=24 LeftWall_29
SETWALL LeftWall_29
GEOM 2 -6
WATER -30 0 -16 0 0
ENDSTEP

STEP Tirante2_1685
CHANGE FRANA_334_8_L_0 D-FRICT=14 LeftWall_29
CHANGE BNA3(2)_335_337_L_0 D-FRICT=24.8 LeftWall_29
CHANGE BNA3(3)_336_338_L_0 D-FRICT=20.5 LeftWall_29
CHANGE FRANA_334_8_L_0 D-COHE=0 LeftWall_29
CHANGE BNA3(2)_335_337_L_0 D-COHE=2 LeftWall_29
CHANGE BNA3(3)_336_338_L_0 D-COHE=24 LeftWall_29
SETWALL LeftWall_29
GEOM 2 -6
WATER -30 0 -16 0 0
ADD Tieback_342
ENDSTEP

STEP Fondoscavo_2741
CHANGE FRANA_334_8_L_0 D-FRICT=14 LeftWall_29
CHANGE BNA3(2)_335_337_L_0 D-FRICT=24.8 LeftWall_29
CHANGE BNA3(3)_336_338_L_0 D-FRICT=20.5 LeftWall_29
CHANGE FRANA_334_8_L_0 D-COHE=0 LeftWall_29
CHANGE BNA3(2)_335_337_L_0 D-COHE=2 LeftWall_29
CHANGE BNA3(3)_336_338_L_0 D-COHE=24 LeftWall_29
SETWALL LeftWall_29
GEOM 2 -7.1
WATER -30 0 -16 0 0
ENDSTEP

```

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

```

+-----+
|                PARATIE PLUS 2014 NLS ENGINE RELEASE  2016  FULL VERSION  *Build date: Sept23, 2015*                |
|                                                                                                                                            |
|                NewProject.BaseDesignSection_25.Nominal_60                                                                              |
|                Exe Time :29 June 2020      21:03:22                                                                              |
+-----+

```

```

*****
*                                                                                                                                            *
*  PARATIE PLUS Non-Linear Spring Engine                                                                                                    *
*                                                                                                                                            *
*          AN ELASTOPLASTIC FINITE ELEMENT PROGRAM                                                                                          *
*          FOR FLEXIBLE EARTH-RETAINING STRUCTURES                                                                                          *
*                                                                                                                                            *
*          Written by Ce.A.S. s.r.l. (ITALY)                                                                                              *
*          with the scientific supervision of                                                                                              *
*          Roberto Nova - full professor SOIL MECHANICS                                                                                   *
*          at Politecnico di Milano (ITALY)                                                                                              *
*                                                                                                                                            *
*****
*  RELEASE  2016  *Build date: Sept23, 2015*                                                                                              *
*                                                                                                                                            *
*                                                                                                                                            *
*  Ce.A.S.   S.R.L  CENTRO DI ANALISI STRUTTURALE                                                                                          *
*                                                                                                                                            *
*          VIALE  GIUSTINIANO 10                                                                                                      *
*          20129  M I L A N O  (ITALIA)                                                                                                  *
*  TEL.     +39 02 2020221  (+39 035 23 67 19)                                                                                          *
*  FAX      +39 02 29512533  (+39 035 42285 49)                                                                                          *
*  email    bruno.becci@ceas.it                                                                                                      *
*  Web Page www.ceas.it                                                                                                                *
*****

```

```

JOB : NewProject.BaseDesignSection_25.Nominal_60
STARTING
ACCEPTED <FILE,GENW                                     >
ACCEPTED <FILE,PLOTTER,BINARY                           >
ACCEPTED <SOLVE TOTAL STRESS                            >
ACCEPTED <PARAM ITEMAX 40                               >

```

```

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

```

```

PRELIMINARY OPERATIONS CPU TIME      0.01 [sec]

```

```

+-----+
|          PARATIE PLUS 2014 NLS ENGINE RELEASE  2016  FULL VERSION  *Build date: Sept23, 2015*          |
|                                                                                                                                            |
|                                                                                                                                            |
|                                                                                                                                            |
|                                                                                                                                            |
|          NewProject.BaseDesignSection_25.Nominal_60                                                                                       |
|          Exe Time :29 June 2020      21:03:22                                                                                             |
+-----+

```

INPUT FILE HAS BEEN GENERATED BY WALGEN PROGRAM

New Project

```

NO. OF NODAL POINTS (NUMNP) ..... 91
NO. OF COORDINATES (NCOORD)..... 2
NO. OF NODE DOFS (NDOF)..... 2
NO. OF EQUATIONS (NEQ)..... 182
NO. OF CONSTRAINTS CARDS (NVINC)..... 0
NO. OF ELEMENT GROUPS (NEG)..... 5
NO. OF SOLUTION STEPS (NSTE)..... 6
NO. OF ELEMENT SETS ATTACHED TO SLAVE NODES ... 0
NO. OF RECORD FROM WALGEN ..... 122
NO. OF LONG NAMES (LASTNAME) ..... 24
LENGTH UNIT CHOICE ..... 3 (M )
FORCE UNIT CHOICE ..... 3 (KN )
MAX PORE PRESSURE TABLE LENGTH..... 1
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.

```

```

+-----+
|                PARATIE PLUS 2014 NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Sept23, 2015*                |
|                                                                                                                    |
|                NewProject.BaseDesignSection_25.Nominal_60                                                        |
|                Exe Time :29 June 2020      21:03:22                                                                |
+-----+

```

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 122

- 1 : UNIT m kN
- 2 : TITLE New Project
- 3 : DELTA 0.2
- 4 : option param itemax 40
- 5 : WALL LeftWall_29 0 -16 2 1
- 6 : SOIL 0_L LeftWall_29 -16 2 1 0
- 7 : SOIL 0_R LeftWall_29 -16 2 2 180
- 8 : LDATA FRANA_334_8_L_0 2 LeftWall_29
- 9 : ATREST 0.758 1 1
- 10 : WEIGHT 20 10 10
- 11 : PERMEABILITY 1E-05
- 12 : RESISTANCE 0 14
- 13 : YOUNG 1.5E+04 2.4E+04
- 14 : ENDL
- 15 : LDATA BNA3(2)_335_337_L_0 -2 LeftWall_29
- 16 : ATREST 0.581 1 1
- 17 : WEIGHT 20 10 10
- 18 : PERMEABILITY 1E-05
- 19 : RESISTANCE 2 24.8
- 20 : YOUNG 5E+04 8E+04
- 21 : ENDL
- 22 : LDATA BNA3(3)_336_338_L_0 -13 LeftWall_29
- 23 : ATREST 0.65 1 1
- 24 : WEIGHT 20 10 10
- 25 : PERMEABILITY 1E-05
- 26 : RESISTANCE 24 20.5
- 27 : YOUNG 7.5E+04 1.2E+05
- 28 : ENDL
- 29 : MATERIAL Fe360_2753 2.06E+08
- 30 : MATERIAL C2530_101 3.148E+07
- 31 : MATERIAL acciaioarmonico_110 2.001E+08
- 32 : BEAM WallElement_30 LeftWall_29 -16 2 C2530_101 0.7888 00 00
- 33 : WIRE Tieback_341 LeftWall_29 -1 acciaioarmonico_110 6.096E-06 55.56 20 0 0
- 34 : WIRE Tieback_342 LeftWall_29 -5 acciaioarmonico_110 7.722E-06 55.56 20 0 0
- 35 : STRIP LeftWall_29 1 6 31 30.5 2 25.6 45
- 36 : STEP Stage1_28
- 37 : CHANGE FRANA_334_8_L_0 U-FRICT=14 LeftWall_29
- 38 : CHANGE FRANA_334_8_L_0 D-FRICT=14 LeftWall_29
- 39 : CHANGE FRANA_334_8_L_0 U-KA=0.61 LeftWall_29
- 40 : CHANGE FRANA_334_8_L_0 U-KP=1.85 LeftWall_29
- 41 : CHANGE FRANA_334_8_L_0 D-KA=0.61 LeftWall_29
- 42 : CHANGE FRANA_334_8_L_0 D-KP=1.85 LeftWall_29
- 43 : CHANGE BNA3(2)_335_337_L_0 U-FRICT=24.8 LeftWall_29
- 44 : CHANGE BNA3(2)_335_337_L_0 D-FRICT=24.8 LeftWall_29
- 45 : CHANGE BNA3(2)_335_337_L_0 U-KA=0.409 LeftWall_29
- 46 : CHANGE BNA3(2)_335_337_L_0 U-KP=3.187 LeftWall_29
- 47 : CHANGE BNA3(2)_335_337_L_0 D-KA=0.409 LeftWall_29
- 48 : CHANGE BNA3(2)_335_337_L_0 D-KP=3.187 LeftWall_29
- 49 : CHANGE BNA3(3)_336_338_L_0 U-FRICT=20.5 LeftWall_29
- 50 : CHANGE BNA3(3)_336_338_L_0 D-FRICT=20.5 LeftWall_29
- 51 : CHANGE BNA3(3)_336_338_L_0 U-KA=0.481 LeftWall_29
- 52 : CHANGE BNA3(3)_336_338_L_0 U-KP=2.541 LeftWall_29
- 53 : CHANGE BNA3(3)_336_338_L_0 D-KA=0.481 LeftWall_29
- 54 : CHANGE BNA3(3)_336_338_L_0 D-KP=2.541 LeftWall_29
- 55 : CHANGE FRANA_334_8_L_0 U-COHE=0 LeftWall_29
- 56 : CHANGE FRANA_334_8_L_0 D-COHE=0 LeftWall_29
- 57 : CHANGE BNA3(2)_335_337_L_0 U-COHE=2 LeftWall_29
- 58 : CHANGE BNA3(2)_335_337_L_0 D-COHE=2 LeftWall_29
- 59 : CHANGE BNA3(3)_336_338_L_0 U-COHE=24 LeftWall_29
- 60 : CHANGE BNA3(3)_336_338_L_0 D-COHE=24 LeftWall_29
- 61 : SETWALL LeftWall_29
- 62 : GEOM 2 2
- 63 : WATER -30 0 -16 0 0
- 64 : ADD WallElement_30
- 65 : ENDSTEP
- 66 : STEP Stage2_344
- 67 : CHANGE FRANA_334_8_L_0 D-FRICT=14 LeftWall_29
- 68 : CHANGE BNA3(2)_335_337_L_0 D-FRICT=24.8 LeftWall_29
- 69 : CHANGE BNA3(3)_336_338_L_0 D-FRICT=20.5 LeftWall_29
- 70 : CHANGE FRANA_334_8_L_0 D-COHE=0 LeftWall_29
- 71 : CHANGE BNA3(2)_335_337_L_0 D-COHE=2 LeftWall_29
- 72 : CHANGE BNA3(3)_336_338_L_0 D-COHE=24 LeftWall_29
- 73 : SETWALL LeftWall_29
- 74 : GEOM 2 -2
- 75 : WATER -30 0 -16 0 0
- 76 : ENDSTEP
- 77 : STEP Tirante1_1139
- 78 : CHANGE FRANA_334_8_L_0 D-FRICT=14 LeftWall_29
- 79 : CHANGE BNA3(2)_335_337_L_0 D-FRICT=24.8 LeftWall_29


```
80 : CHANGE BNA3(3)_336_338_L_0 D-FRICT=20.5 LeftWall_29
81 : CHANGE FRANA_334_8_L_0 D-COHE=0 LeftWall_29
82 : CHANGE BNA3(2)_335_337_L_0 D-COHE=2 LeftWall_29
83 : CHANGE BNA3(3)_336_338_L_0 D-COHE=24 LeftWall_29
84 : SETWALL LeftWall_29
85 : GEOM 2 -2
86 : WATER -30 0 -16 0 0
87 : ADD Tieback_341
88 : ENDSTEP
89 : STEP Stage4_1238
90 : CHANGE FRANA_334_8_L_0 D-FRICT=14 LeftWall_29
91 : CHANGE BNA3(2)_335_337_L_0 D-FRICT=24.8 LeftWall_29
92 : CHANGE BNA3(3)_336_338_L_0 D-FRICT=20.5 LeftWall_29
93 : CHANGE FRANA_334_8_L_0 D-COHE=0 LeftWall_29
94 : CHANGE BNA3(2)_335_337_L_0 D-COHE=2 LeftWall_29
95 : CHANGE BNA3(3)_336_338_L_0 D-COHE=24 LeftWall_29
96 : SETWALL LeftWall_29
97 : GEOM 2 -6
98 : WATER -30 0 -16 0 0
99 : ENDSTEP
100 : STEP Tirante2_1685
101 : CHANGE FRANA_334_8_L_0 D-FRICT=14 LeftWall_29
102 : CHANGE BNA3(2)_335_337_L_0 D-FRICT=24.8 LeftWall_29
103 : CHANGE BNA3(3)_336_338_L_0 D-FRICT=20.5 LeftWall_29
104 : CHANGE FRANA_334_8_L_0 D-COHE=0 LeftWall_29
105 : CHANGE BNA3(2)_335_337_L_0 D-COHE=2 LeftWall_29
106 : CHANGE BNA3(3)_336_338_L_0 D-COHE=24 LeftWall_29
107 : SETWALL LeftWall_29
108 : GEOM 2 -6
109 : WATER -30 0 -16 0 0
110 : ADD Tieback_342
111 : ENDSTEP
112 : STEP Fondoscavo_2741
113 : CHANGE FRANA_334_8_L_0 D-FRICT=14 LeftWall_29
114 : CHANGE BNA3(2)_335_337_L_0 D-FRICT=24.8 LeftWall_29
115 : CHANGE BNA3(3)_336_338_L_0 D-FRICT=20.5 LeftWall_29
116 : CHANGE FRANA_334_8_L_0 D-COHE=0 LeftWall_29
117 : CHANGE BNA3(2)_335_337_L_0 D-COHE=2 LeftWall_29
118 : CHANGE BNA3(3)_336_338_L_0 D-COHE=24 LeftWall_29
119 : SETWALL LeftWall_29
120 : GEOM 2 -7.1
121 : WATER -30 0 -16 0 0
122 : ENDSTEP
```

```

+-----+
|          PARATIE PLUS 2014 NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Sept23, 2015*          |
|                                                                                                    |
|                               NewProject.BaseDesignSection_25.Nominal_60                            |
|                               Exe Time :29 June 2020      21:03:22                                |
+-----+

```

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	0.0000	2.0000 /	2	0.0000	1.8000 /	3	0.0000	1.6000 /	4	0.0000	1.4000 /
5	0.0000	1.2000 /	6	0.0000	1.0000 /	7	0.0000	0.80000 /	8	0.0000	0.60000 /
9	0.0000	0.40000 /	10	0.0000	0.20000 /	11	0.0000	-1.49012E-07 /	12	0.0000	-0.20000 /
13	0.0000	-0.40000 /	14	0.0000	-0.60000 /	15	0.0000	-0.80000 /	16	0.0000	-1.0000 /
17	0.0000	-1.2000 /	18	0.0000	-1.4000 /	19	0.0000	-1.6000 /	20	0.0000	-1.8000 /
21	0.0000	-2.0000 /	22	0.0000	-2.2000 /	23	0.0000	-2.4000 /	24	0.0000	-2.6000 /
25	0.0000	-2.8000 /	26	0.0000	-3.0000 /	27	0.0000	-3.2000 /	28	0.0000	-3.4000 /
29	0.0000	-3.6000 /	30	0.0000	-3.8000 /	31	0.0000	-4.0000 /	32	0.0000	-4.2000 /
33	0.0000	-4.4000 /	34	0.0000	-4.6000 /	35	0.0000	-4.8000 /	36	0.0000	-5.0000 /
37	0.0000	-5.2000 /	38	0.0000	-5.4000 /	39	0.0000	-5.6000 /	40	0.0000	-5.8000 /
41	0.0000	-6.0000 /	42	0.0000	-6.2000 /	43	0.0000	-6.4000 /	44	0.0000	-6.6000 /
45	0.0000	-6.8000 /	46	0.0000	-7.0000 /	47	0.0000	-7.2000 /	48	0.0000	-7.4000 /
49	0.0000	-7.6000 /	50	0.0000	-7.8000 /	51	0.0000	-8.0000 /	52	0.0000	-8.2000 /
53	0.0000	-8.4000 /	54	0.0000	-8.6000 /	55	0.0000	-8.8000 /	56	0.0000	-9.0000 /
57	0.0000	-9.2000 /	58	0.0000	-9.4000 /	59	0.0000	-9.6000 /	60	0.0000	-9.8000 /
61	0.0000	-10.000 /	62	0.0000	-10.200 /	63	0.0000	-10.400 /	64	0.0000	-10.600 /
65	0.0000	-10.800 /	66	0.0000	-11.000 /	67	0.0000	-11.200 /	68	0.0000	-11.400 /
69	0.0000	-11.600 /	70	0.0000	-11.800 /	71	0.0000	-12.000 /	72	0.0000	-12.200 /
73	0.0000	-12.400 /	74	0.0000	-12.600 /	75	0.0000	-12.800 /	76	0.0000	-13.000 /
77	0.0000	-13.200 /	78	0.0000	-13.400 /	79	0.0000	-13.600 /	80	0.0000	-13.800 /
81	0.0000	-14.000 /	82	0.0000	-14.200 /	83	0.0000	-14.400 /	84	0.0000	-14.600 /
85	0.0000	-14.800 /	86	0.0000	-15.000 /	87	0.0000	-15.200 /	88	0.0000	-15.400 /
89	0.0000	-15.600 /	90	0.0000	-15.800 /	91	0.0000	-16.000 /			

```

+-----+
|          PARATIE PLUS 2014 NLS ENGINE RELEASE  2016  FULL VERSION  *Build date: Sept23, 2015*          |
|                                                                                                                                            |
|                                                                 NewProject.BaseDesignSection_25.Nominal_60                               |
|                                                                 Exe Time :29 June 2020      21:03:22                               |
+-----+

```

ELEMENT GROUP NO. 1

```

0_L
 5 91 0 1 0 0 0 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
5 active
6 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	2	0.2000	0.000	0.000	0.000	1.000

42	42	2	0.2000	0.000	0.000	0.000	1.000
43	43	2	0.2000	0.000	0.000	0.000	1.000
44	44	2	0.2000	0.000	0.000	0.000	1.000
45	45	2	0.2000	0.000	0.000	0.000	1.000
46	46	2	0.2000	0.000	0.000	0.000	1.000
47	47	2	0.2000	0.000	0.000	0.000	1.000
48	48	2	0.2000	0.000	0.000	0.000	1.000
49	49	2	0.2000	0.000	0.000	0.000	1.000
50	50	2	0.2000	0.000	0.000	0.000	1.000
51	51	2	0.2000	0.000	0.000	0.000	1.000
52	52	2	0.2000	0.000	0.000	0.000	1.000
53	53	2	0.2000	0.000	0.000	0.000	1.000
54	54	2	0.2000	0.000	0.000	0.000	1.000
55	55	2	0.2000	0.000	0.000	0.000	1.000
56	56	2	0.2000	0.000	0.000	0.000	1.000
57	57	2	0.2000	0.000	0.000	0.000	1.000
58	58	2	0.2000	0.000	0.000	0.000	1.000
59	59	2	0.2000	0.000	0.000	0.000	1.000
60	60	2	0.2000	0.000	0.000	0.000	1.000
61	61	2	0.2000	0.000	0.000	0.000	1.000
62	62	2	0.2000	0.000	0.000	0.000	1.000
63	63	2	0.2000	0.000	0.000	0.000	1.000
64	64	2	0.2000	0.000	0.000	0.000	1.000
65	65	2	0.2000	0.000	0.000	0.000	1.000
66	66	2	0.2000	0.000	0.000	0.000	1.000
67	67	2	0.2000	0.000	0.000	0.000	1.000
68	68	2	0.2000	0.000	0.000	0.000	1.000
69	69	2	0.2000	0.000	0.000	0.000	1.000
70	70	2	0.2000	0.000	0.000	0.000	1.000
71	71	2	0.2000	0.000	0.000	0.000	1.000
72	72	2	0.2000	0.000	0.000	0.000	1.000
73	73	2	0.2000	0.000	0.000	0.000	1.000
74	74	2	0.2000	0.000	0.000	0.000	1.000
75	75	2	0.2000	0.000	0.000	0.000	1.000
76	76	2	0.2000	0.000	0.000	0.000	1.000
77	77	3	0.2000	0.000	0.000	0.000	1.000
78	78	3	0.2000	0.000	0.000	0.000	1.000
79	79	3	0.2000	0.000	0.000	0.000	1.000
80	80	3	0.2000	0.000	0.000	0.000	1.000
81	81	3	0.2000	0.000	0.000	0.000	1.000
82	82	3	0.2000	0.000	0.000	0.000	1.000
83	83	3	0.2000	0.000	0.000	0.000	1.000
84	84	3	0.2000	0.000	0.000	0.000	1.000
85	85	3	0.2000	0.000	0.000	0.000	1.000
86	86	3	0.2000	0.000	0.000	0.000	1.000
87	87	3	0.2000	0.000	0.000	0.000	1.000
88	88	3	0.2000	0.000	0.000	0.000	1.000
89	89	3	0.2000	0.000	0.000	0.000	1.000
90	90	3	0.2000	0.000	0.000	0.000	1.000
91	91	3	0.1000	0.000	0.000	0.000	1.000

```

+-----+
|          PARATIE PLUS 2014 NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Sept23, 2015*          |
|                                                                                                    |
|          NewProject.BaseDesignSection_25.Nominal_60                                             |
|          Exe Time :29 June 2020      21:03:22                                                  |
+-----+

```

ELEMENT GROUP NO. 2

```

0_R
 5 91 0 1 0 0 0 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
5 active
6 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	2	0.2000	0.000	0.000	0.000	2.000

42	42	2	0.2000	0.000	0.000	0.000	2.000
43	43	2	0.2000	0.000	0.000	0.000	2.000
44	44	2	0.2000	0.000	0.000	0.000	2.000
45	45	2	0.2000	0.000	0.000	0.000	2.000
46	46	2	0.2000	0.000	0.000	0.000	2.000
47	47	2	0.2000	0.000	0.000	0.000	2.000
48	48	2	0.2000	0.000	0.000	0.000	2.000
49	49	2	0.2000	0.000	0.000	0.000	2.000
50	50	2	0.2000	0.000	0.000	0.000	2.000
51	51	2	0.2000	0.000	0.000	0.000	2.000
52	52	2	0.2000	0.000	0.000	0.000	2.000
53	53	2	0.2000	0.000	0.000	0.000	2.000
54	54	2	0.2000	0.000	0.000	0.000	2.000
55	55	2	0.2000	0.000	0.000	0.000	2.000
56	56	2	0.2000	0.000	0.000	0.000	2.000
57	57	2	0.2000	0.000	0.000	0.000	2.000
58	58	2	0.2000	0.000	0.000	0.000	2.000
59	59	2	0.2000	0.000	0.000	0.000	2.000
60	60	2	0.2000	0.000	0.000	0.000	2.000
61	61	2	0.2000	0.000	0.000	0.000	2.000
62	62	2	0.2000	0.000	0.000	0.000	2.000
63	63	2	0.2000	0.000	0.000	0.000	2.000
64	64	2	0.2000	0.000	0.000	0.000	2.000
65	65	2	0.2000	0.000	0.000	0.000	2.000
66	66	2	0.2000	0.000	0.000	0.000	2.000
67	67	2	0.2000	0.000	0.000	0.000	2.000
68	68	2	0.2000	0.000	0.000	0.000	2.000
69	69	2	0.2000	0.000	0.000	0.000	2.000
70	70	2	0.2000	0.000	0.000	0.000	2.000
71	71	2	0.2000	0.000	0.000	0.000	2.000
72	72	2	0.2000	0.000	0.000	0.000	2.000
73	73	2	0.2000	0.000	0.000	0.000	2.000
74	74	2	0.2000	0.000	0.000	0.000	2.000
75	75	2	0.2000	0.000	0.000	0.000	2.000
76	76	2	0.2000	0.000	0.000	0.000	2.000
77	77	3	0.2000	0.000	0.000	0.000	2.000
78	78	3	0.2000	0.000	0.000	0.000	2.000
79	79	3	0.2000	0.000	0.000	0.000	2.000
80	80	3	0.2000	0.000	0.000	0.000	2.000
81	81	3	0.2000	0.000	0.000	0.000	2.000
82	82	3	0.2000	0.000	0.000	0.000	2.000
83	83	3	0.2000	0.000	0.000	0.000	2.000
84	84	3	0.2000	0.000	0.000	0.000	2.000
85	85	3	0.2000	0.000	0.000	0.000	2.000
86	86	3	0.2000	0.000	0.000	0.000	2.000
87	87	3	0.2000	0.000	0.000	0.000	2.000
88	88	3	0.2000	0.000	0.000	0.000	2.000
89	89	3	0.2000	0.000	0.000	0.000	2.000
90	90	3	0.2000	0.000	0.000	0.000	2.000
91	91	3	0.1000	0.000	0.000	0.000	2.000

```

+-----+
|              PARATIE PLUS 2014 NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Sept23, 2015*              |
|                                                                                                          |
|              NewProject.BaseDesignSection_25.Nominal_60                                              |
|              Exe Time :29 June 2020           21:03:22                                              |
+-----+

```

ELEMENT GROUP NO. 3

```

Wallelement_30
2 90 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 1 0
.....
.....2D WALL ELEMENT.....
.....

```

element group behaviour throughout stage analysis

```

stage  status
-----
1  active
2  active
3  active
4  active
5  active
6  active

```

material set no. 1

```

prop( 1) young modulus      0.314800E+08
prop( 2) modification time  0.00000
prop( 3) new young modulus  0.00000
prop( 4) poisson ratio      0.00000
prop( 5) future .....0.294300E-43

```

no. of step variable items: 1

```

step  inertia multiplier
-----
1  1.000
2  1.000
3  1.000
4  1.000
5  1.000
6  1.000

```

element data

e1	na	nb	mat	erc1	erc2	thick
1	1	2	1	0.000	0.000	0.7888
2	2	3	1	0.000	0.000	0.7888
3	3	4	1	0.000	0.000	0.7888
4	4	5	1	0.000	0.000	0.7888
5	5	6	1	0.000	0.000	0.7888
6	6	7	1	0.000	0.000	0.7888
7	7	8	1	0.000	0.000	0.7888
8	8	9	1	0.000	0.000	0.7888
9	9	10	1	0.000	0.000	0.7888
10	10	11	1	0.000	0.000	0.7888
11	11	12	1	0.000	0.000	0.7888
12	12	13	1	0.000	0.000	0.7888
13	13	14	1	0.000	0.000	0.7888
14	14	15	1	0.000	0.000	0.7888
15	15	16	1	0.000	0.000	0.7888
16	16	17	1	0.000	0.000	0.7888
17	17	18	1	0.000	0.000	0.7888
18	18	19	1	0.000	0.000	0.7888
19	19	20	1	0.000	0.000	0.7888
20	20	21	1	0.000	0.000	0.7888
21	21	22	1	0.000	0.000	0.7888
22	22	23	1	0.000	0.000	0.7888
23	23	24	1	0.000	0.000	0.7888
24	24	25	1	0.000	0.000	0.7888
25	25	26	1	0.000	0.000	0.7888
26	26	27	1	0.000	0.000	0.7888
27	27	28	1	0.000	0.000	0.7888
28	28	29	1	0.000	0.000	0.7888
29	29	30	1	0.000	0.000	0.7888
30	30	31	1	0.000	0.000	0.7888
31	31	32	1	0.000	0.000	0.7888
32	32	33	1	0.000	0.000	0.7888
33	33	34	1	0.000	0.000	0.7888
34	34	35	1	0.000	0.000	0.7888
35	35	36	1	0.000	0.000	0.7888
36	36	37	1	0.000	0.000	0.7888
37	37	38	1	0.000	0.000	0.7888
38	38	39	1	0.000	0.000	0.7888
39	39	40	1	0.000	0.000	0.7888
40	40	41	1	0.000	0.000	0.7888
41	41	42	1	0.000	0.000	0.7888

42	42	43	1	0.000	0.000	0.7888
43	43	44	1	0.000	0.000	0.7888
44	44	45	1	0.000	0.000	0.7888
45	45	46	1	0.000	0.000	0.7888
46	46	47	1	0.000	0.000	0.7888
47	47	48	1	0.000	0.000	0.7888
48	48	49	1	0.000	0.000	0.7888
49	49	50	1	0.000	0.000	0.7888
50	50	51	1	0.000	0.000	0.7888
51	51	52	1	0.000	0.000	0.7888
52	52	53	1	0.000	0.000	0.7888
53	53	54	1	0.000	0.000	0.7888
54	54	55	1	0.000	0.000	0.7888
55	55	56	1	0.000	0.000	0.7888
56	56	57	1	0.000	0.000	0.7888
57	57	58	1	0.000	0.000	0.7888
58	58	59	1	0.000	0.000	0.7888
59	59	60	1	0.000	0.000	0.7888
60	60	61	1	0.000	0.000	0.7888
61	61	62	1	0.000	0.000	0.7888
62	62	63	1	0.000	0.000	0.7888
63	63	64	1	0.000	0.000	0.7888
64	64	65	1	0.000	0.000	0.7888
65	65	66	1	0.000	0.000	0.7888
66	66	67	1	0.000	0.000	0.7888
67	67	68	1	0.000	0.000	0.7888
68	68	69	1	0.000	0.000	0.7888
69	69	70	1	0.000	0.000	0.7888
70	70	71	1	0.000	0.000	0.7888
71	71	72	1	0.000	0.000	0.7888
72	72	73	1	0.000	0.000	0.7888
73	73	74	1	0.000	0.000	0.7888
74	74	75	1	0.000	0.000	0.7888
75	75	76	1	0.000	0.000	0.7888
76	76	77	1	0.000	0.000	0.7888
77	77	78	1	0.000	0.000	0.7888
78	78	79	1	0.000	0.000	0.7888
79	79	80	1	0.000	0.000	0.7888
80	80	81	1	0.000	0.000	0.7888
81	81	82	1	0.000	0.000	0.7888
82	82	83	1	0.000	0.000	0.7888
83	83	84	1	0.000	0.000	0.7888
84	84	85	1	0.000	0.000	0.7888
85	85	86	1	0.000	0.000	0.7888
86	86	87	1	0.000	0.000	0.7888
87	87	88	1	0.000	0.000	0.7888
88	88	89	1	0.000	0.000	0.7888
89	89	90	1	0.000	0.000	0.7888
90	90	91	1	0.000	0.000	0.7888


```

+-----+
|          PARATIE PLUS 2014 NLS ENGINE RELEASE  2016  FULL VERSION  *Build date: Sept23, 2015*          |
|                                                                                                                                            |
|                                                                 NewProject.BaseDesignSection_25.Nominal_60                               |
|                                                                 Exe Time :29 June 2020      21:03:22                               |
+-----+

```

ELEMENT GROUP NO. 4

```

Tieback_341
6 1 0 1 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 2 0
.....
.....2D POST-TENSION ANCHOR.....
.....

```

element group behaviour throughout stage analysis

```

stage  status
-----
1  inactive
2  inactive
3  active
4  active
5  active
6  active

```

material set no. 1

```

prop( 1) angle          20.0000
prop( 2) young modulus  0.200100E+09
prop( 3) modification time 0.000000
prop( 4) new young modulus 0.000000

```

no. of step variable items: 2

```

step  -ve lim  +ve lim
-----
1  0.000  0.000
2  0.000  0.000
3  0.000  0.000
4  0.000  0.000
5  0.000  0.000
6  0.000  0.000

```

element data

```

el  n  mat      a/l    pinit   yieldc   yieldt
-----
1  16  1    0.6096E-05  55.56   0.000   0.000

```

```

+-----+
|          PARATIE PLUS 2014 NLS ENGINE RELEASE  2016  FULL VERSION  *Build date: Sept23, 2015*          |
|                                                                                                                                            |
|                                                                 NewProject.BaseDesignSection_25.Nominal_60                               |
|                                                                 Exe Time :29 June 2020      21:03:22                               |
+-----+

```

ELEMENT GROUP NO. 5

```

Tieback_342
6 1 0 1 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 2 0
.....
.....2D POST-TENSION ANCHOR.....
.....

```

element group behaviour throughout stage analysis

```

stage  status
-----
1  inactive
2  inactive
3  inactive
4  inactive
5  active
6  active

```

material set no. 1

```

prop( 1) angle          20.0000
prop( 2) young modulus  0.200100E+09
prop( 3) modification time 0.000000
prop( 4) new young modulus 0.000000

```

no. of step variable items: 2

step	-ve lim	+ve lim
1	0.000	0.000
2	0.000	0.000
3	0.000	0.000
4	0.000	0.000
5	0.000	0.000
6	0.000	0.000

element data

el	n	mat	a/l	pinit	yieldc	yieldt
1	36	1	0.7722E-05	55.56	0.000	0.000

```
+-----+
|          PARATIE PLUS 2014 NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Sept23, 2015*          |
|                                                                                                                                            |
|                                                                 NewProject.BaseDesignSection_25.Nominal_60                               |
|                                                                 Exe Time :29 June 2020      21:03:22                               |
+-----+
```

```
NO. OF NODAL LOADS (NLOAD) ..... 0
NO. OF LOAD CURVES (NLCUR) ..... 12
MAXIMUM POINTS/LCURVE (NPTM)..... 5
```

```

+-----+
|          PARATIE PLUS 2014 NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Sept23, 2015*          |
|                                                                                                    |
|                               NewProject.BaseDesignSection_25.Nominal_60                               |
|                               Exe Time :29 June 2020      21:03:22                               |
+-----+

```

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
7.00000	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
7.00000	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
7.00000	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
7.00000	0.0000E+00

LOAD FUNCTION NUMBER = 5
NUMBER OF TIME POINTS = 5

TIME VALUE	FUNCTION
0.00000	0.0000E+00
4.80000	0.0000E+00
5.00000	0.1000E+01
5.20000	0.0000E+00
7.00000	0.0000E+00

LOAD FUNCTION NUMBER = 6
NUMBER OF TIME POINTS = 5

TIME VALUE	FUNCTION
0.00000	0.0000E+00
5.80000	0.0000E+00
6.00000	0.1000E+01
6.20000	0.0000E+00
7.00000	0.0000E+00

LOAD FUNCTION NUMBER = 7

NUMBER OF TIME POINTS = 4

TIME VALUE	FUNCTION
0.00000	0.0000E+00
0.80000	0.0000E+00
1.00000	0.1000E+01
7.00000	0.1000E+01

LOAD FUNCTION NUMBER = 8
NUMBER OF TIME POINTS = 4

TIME VALUE	FUNCTION
0.00000	0.0000E+00
1.80000	0.0000E+00
2.00000	0.1000E+01
7.00000	0.1000E+01

LOAD FUNCTION NUMBER = 9
NUMBER OF TIME POINTS = 4

TIME VALUE	FUNCTION
0.00000	0.0000E+00
2.80000	0.0000E+00
3.00000	0.1000E+01
7.00000	0.1000E+01

LOAD FUNCTION NUMBER = 10
NUMBER OF TIME POINTS = 4

TIME VALUE	FUNCTION
0.00000	0.0000E+00
3.80000	0.0000E+00
4.00000	0.1000E+01
7.00000	0.1000E+01

LOAD FUNCTION NUMBER = 11
NUMBER OF TIME POINTS = 4

TIME VALUE	FUNCTION
0.00000	0.0000E+00
4.80000	0.0000E+00
5.00000	0.1000E+01
7.00000	0.1000E+01

LOAD FUNCTION NUMBER = 12
NUMBER OF TIME POINTS = 4

TIME VALUE	FUNCTION
0.00000	0.0000E+00
5.80000	0.0000E+00
6.00000	0.1000E+01
7.00000	0.1000E+01

NO. OF DISTRIBUTED LOAD CARDS 0

```

+-----+
|          PARATIE PLUS 2014 NLS ENGINE RELEASE  2016  FULL VERSION  *Build date: Sept23, 2015*          |
|                                                                                                                                            |
|                                                                 NewProject.BaseDesignSection_25.Nominal_60                               |
|                                                                 Exe Time :29 June 2020      21:03:22                               |
+-----+

```

```

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

STEP  5  TOTAL APPLIED LOAD IN DIR.  2  Y-DISPL.F      0.0000000
STEP  5  TOTAL APPLIED LOAD IN DIR.  4  X-ROT. F      0.0000000

STEP  6  TOTAL APPLIED LOAD IN DIR.  2  Y-DISPL.F      0.0000000
STEP  6  TOTAL APPLIED LOAD IN DIR.  4  X-ROT. F      0.0000000

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LOAD INPUT SECTION COMPLETED

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+-----+
|          PARATIE PLUS 2014 NLS ENGINE RELEASE  2016  FULL VERSION  *Build date: Sept23, 2015*          |
|                                                                                                                                            |
|                               NewProject.BaseDesignSection_25.Nominal_60                               |
|                               Exe Time :29 June 2020      21:03:22                               |
+-----+
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NO. OF LAYERS ..... 3
NO. OF DATA PER LAYER..... 100
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LAYER DESCRIPTORS FOR STEP NO. 1

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

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ITEM NO. 1<NAME    >= 16.000    (BOTH WALLS)
ITEM NO. 2<NATURE >= 1.0000    (BOTH WALLS)
ITEM NO. 3<LEVEL  >= 2.0000    (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. 9<U-FRICT >= 14.000    (BOTH WALLS)
ITEM NO. 10<U-KA  >= 0.61000    WALL NO.      1
ITEM NO. 11<U-KP  >= 1.8500    WALL NO.      1
ITEM NO. 12<K0-NC >= 0.75800    (BOTH WALLS)
ITEM NO. 13<NEXP  >= 1.0000    (BOTH WALLS)
ITEM NO. 14<OCR   >= 1.0000    (BOTH WALLS)
ITEM NO. 16<MODEL >= 1.0000    (BOTH WALLS)
ITEM NO. 17<EVC   >= 15000.    (BOTH WALLS)
ITEM NO. 18<EUR   >= 24000.    (BOTH WALLS)
ITEM NO. 27<U-PERM >= 0.10000E-04 (BOTH WALLS)
ITEM NO. 52<D-NATURE>= 1.0000    (BOTH WALLS)
ITEM NO. 53<D-LEVEL >= 0.0000    (BOTH WALLS)
ITEM NO. 59<D-FRICT >= 14.000    (BOTH WALLS)
ITEM NO. 60<D-KA  >= 0.61000    WALL NO.      1
ITEM NO. 61<D-KP  >= 1.8500    WALL NO.      1
ITEM NO. 77<D-PERM >= 0.10000E-04 (BOTH WALLS)

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

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ITEM NO. 1<NAME    >= 17.000    (BOTH WALLS)
ITEM NO. 2<NATURE >= 1.0000    (BOTH WALLS)
ITEM NO. 3<LEVEL  >= -2.0000   (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 >= 2.0000    (BOTH WALLS)
ITEM NO. 9<U-FRICT >= 24.800    (BOTH WALLS)
ITEM NO. 10<U-KA  >= 0.40900    WALL NO.      1
ITEM NO. 11<U-KP  >= 3.1870    WALL NO.      1
ITEM NO. 12<K0-NC >= 0.58100    (BOTH WALLS)
ITEM NO. 13<NEXP  >= 1.0000    (BOTH WALLS)
ITEM NO. 14<OCR   >= 1.0000    (BOTH WALLS)
ITEM NO. 16<MODEL >= 1.0000    (BOTH WALLS)
ITEM NO. 17<EVC   >= 50000.    (BOTH WALLS)
ITEM NO. 18<EUR   >= 80000.    (BOTH WALLS)
ITEM NO. 27<U-PERM >= 0.10000E-04 (BOTH WALLS)
ITEM NO. 52<D-NATURE>= 1.0000    (BOTH WALLS)
ITEM NO. 53<D-LEVEL >= 0.0000    (BOTH WALLS)
ITEM NO. 58<D-COHE >= 2.0000    (BOTH WALLS)
ITEM NO. 59<D-FRICT >= 24.800    (BOTH WALLS)
ITEM NO. 60<D-KA  >= 0.40900    WALL NO.      1
ITEM NO. 61<D-KP  >= 3.1870    WALL NO.      1
ITEM NO. 77<D-PERM >= 0.10000E-04 (BOTH WALLS)

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

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ITEM NO. 1<NAME    >= 18.000    (BOTH WALLS)
ITEM NO. 2<NATURE >= 1.0000    (BOTH WALLS)
ITEM NO. 3<LEVEL  >= -13.000    (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 >= 24.000    (BOTH WALLS)
ITEM NO. 9<U-FRICT >= 20.500    (BOTH WALLS)
ITEM NO. 10<U-KA  >= 0.48100    WALL NO.      1
ITEM NO. 11<U-KP  >= 2.5410    WALL NO.      1
ITEM NO. 12<K0-NC >= 0.65000    (BOTH WALLS)
ITEM NO. 13<NEXP  >= 1.0000    (BOTH WALLS)
ITEM NO. 14<OCR   >= 1.0000    (BOTH WALLS)
ITEM NO. 16<MODEL >= 1.0000    (BOTH WALLS)
ITEM NO. 17<EVC   >= 75000.    (BOTH WALLS)
ITEM NO. 18<EUR   >= 0.12000E+06 (BOTH WALLS)
ITEM NO. 27<U-PERM >= 0.10000E-04 (BOTH WALLS)
ITEM NO. 52<D-NATURE>= 1.0000    (BOTH WALLS)
ITEM NO. 53<D-LEVEL >= 0.0000    (BOTH WALLS)
ITEM NO. 58<D-COHE >= 24.000    (BOTH WALLS)
ITEM NO. 59<D-FRICT >= 20.500    (BOTH WALLS)
ITEM NO. 60<D-KA  >= 0.48100    WALL NO.      1

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ITEM NO. 61<D-KP >= 2.5410 WALL NO. 1
ITEM NO. 77<D-PERM >= 0.10000E-04 (BOTH WALLS)

LAYER DESCRIPTORS FOR STEP NO. 2

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

ITEM NO. 1<NAME >= 16.000 (BOTH WALLS)
ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
ITEM NO. 3<LEVEL >= 2.0000 (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. 9<U-FRICT >= 14.000 (BOTH WALLS)
ITEM NO. 10<U-KA >= 0.61000 WALL NO. 1
ITEM NO. 11<U-KP >= 1.8500 WALL NO. 1
ITEM NO. 12<K0-NC >= 0.75800 (BOTH WALLS)
ITEM NO. 13<NEXP >= 1.0000 (BOTH WALLS)
ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)
ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)
ITEM NO. 17<EVC >= 15000. (BOTH WALLS)
ITEM NO. 18<EUR >= 24000. (BOTH WALLS)
ITEM NO. 27<U-PERM >= 0.10000E-04 (BOTH WALLS)
ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
ITEM NO. 59<D-FRICT >= 14.000 (BOTH WALLS)
ITEM NO. 60<D-KA >= 0.61000 WALL NO. 1
ITEM NO. 61<D-KP >= 1.8500 WALL NO. 1
ITEM NO. 77<D-PERM >= 0.10000E-04 (BOTH WALLS)

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

ITEM NO. 1<NAME >= 17.000 (BOTH WALLS)
ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
ITEM NO. 3<LEVEL >= -2.0000 (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 >= 2.0000 (BOTH WALLS)
ITEM NO. 9<U-FRICT >= 24.800 (BOTH WALLS)
ITEM NO. 10<U-KA >= 0.40900 WALL NO. 1
ITEM NO. 11<U-KP >= 3.1870 WALL NO. 1
ITEM NO. 12<K0-NC >= 0.58100 (BOTH WALLS)
ITEM NO. 13<NEXP >= 1.0000 (BOTH WALLS)
ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)
ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)
ITEM NO. 17<EVC >= 50000. (BOTH WALLS)
ITEM NO. 18<EUR >= 80000. (BOTH WALLS)
ITEM NO. 27<U-PERM >= 0.10000E-04 (BOTH WALLS)
ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
ITEM NO. 58<D-COHE >= 2.0000 (BOTH WALLS)
ITEM NO. 59<D-FRICT >= 24.800 (BOTH WALLS)
ITEM NO. 60<D-KA >= 0.40900 WALL NO. 1
ITEM NO. 61<D-KP >= 3.1870 WALL NO. 1
ITEM NO. 77<D-PERM >= 0.10000E-04 (BOTH WALLS)

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

ITEM NO. 1<NAME >= 18.000 (BOTH WALLS)
ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
ITEM NO. 3<LEVEL >= -13.000 (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 >= 24.000 (BOTH WALLS)
ITEM NO. 9<U-FRICT >= 20.500 (BOTH WALLS)
ITEM NO. 10<U-KA >= 0.48100 WALL NO. 1
ITEM NO. 11<U-KP >= 2.5410 WALL NO. 1
ITEM NO. 12<K0-NC >= 0.65000 (BOTH WALLS)
ITEM NO. 13<NEXP >= 1.0000 (BOTH WALLS)
ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)
ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)
ITEM NO. 17<EVC >= 75000. (BOTH WALLS)
ITEM NO. 18<EUR >= 0.12000E+06 (BOTH WALLS)
ITEM NO. 27<U-PERM >= 0.10000E-04 (BOTH WALLS)
ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
ITEM NO. 58<D-COHE >= 24.000 (BOTH WALLS)
ITEM NO. 59<D-FRICT >= 20.500 (BOTH WALLS)
ITEM NO. 60<D-KA >= 0.48100 WALL NO. 1
ITEM NO. 61<D-KP >= 2.5410 WALL NO. 1
ITEM NO. 77<D-PERM >= 0.10000E-04 (BOTH WALLS)

LAYER DESCRIPTORS FOR STEP NO. 3

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

ITEM NO. 1<NAME >= 16.000 (BOTH WALLS)
ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
ITEM NO. 3<LEVEL >= 2.0000 (BOTH WALLS)
ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)
ITEM NO. 5<GAMMAD >= 20.0000 (BOTH WALLS)
ITEM NO. 6<GAMMAB >= 10.0000 (BOTH WALLS)
ITEM NO. 7<GAMMAW >= 10.0000 (BOTH WALLS)
ITEM NO. 9<U-FRICT >= 14.0000 (BOTH WALLS)
ITEM NO. 10<U-KA >= 0.61000 WALL NO. 1
ITEM NO. 11<U-KP >= 1.8500 WALL NO. 1
ITEM NO. 12<K0-NC >= 0.75800 (BOTH WALLS)
ITEM NO. 13<NEXP >= 1.0000 (BOTH WALLS)
ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)
ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)
ITEM NO. 17<EVC >= 15000. (BOTH WALLS)
ITEM NO. 18<EUR >= 24000. (BOTH WALLS)
ITEM NO. 27<U-PERM >= 0.10000E-04 (BOTH WALLS)
ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
ITEM NO. 59<D-FRICT >= 14.0000 (BOTH WALLS)
ITEM NO. 60<D-KA >= 0.61000 WALL NO. 1
ITEM NO. 61<D-KP >= 1.8500 WALL NO. 1
ITEM NO. 77<D-PERM >= 0.10000E-04 (BOTH WALLS)

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

ITEM NO. 1<NAME >= 17.000 (BOTH WALLS)
ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
ITEM NO. 3<LEVEL >= -2.0000 (BOTH WALLS)
ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)
ITEM NO. 5<GAMMAD >= 20.0000 (BOTH WALLS)
ITEM NO. 6<GAMMAB >= 10.0000 (BOTH WALLS)
ITEM NO. 7<GAMMAW >= 10.0000 (BOTH WALLS)
ITEM NO. 8<U-COHE >= 2.0000 (BOTH WALLS)
ITEM NO. 9<U-FRICT >= 24.8000 (BOTH WALLS)
ITEM NO. 10<U-KA >= 0.40900 WALL NO. 1
ITEM NO. 11<U-KP >= 3.1870 WALL NO. 1
ITEM NO. 12<K0-NC >= 0.58100 (BOTH WALLS)
ITEM NO. 13<NEXP >= 1.0000 (BOTH WALLS)
ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)
ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)
ITEM NO. 17<EVC >= 50000. (BOTH WALLS)
ITEM NO. 18<EUR >= 80000. (BOTH WALLS)
ITEM NO. 27<U-PERM >= 0.10000E-04 (BOTH WALLS)
ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
ITEM NO. 58<D-COHE >= 2.0000 (BOTH WALLS)
ITEM NO. 59<D-FRICT >= 24.8000 (BOTH WALLS)
ITEM NO. 60<D-KA >= 0.40900 WALL NO. 1
ITEM NO. 61<D-KP >= 3.1870 WALL NO. 1
ITEM NO. 77<D-PERM >= 0.10000E-04 (BOTH WALLS)

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

ITEM NO. 1<NAME >= 18.000 (BOTH WALLS)
ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
ITEM NO. 3<LEVEL >= -13.0000 (BOTH WALLS)
ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)
ITEM NO. 5<GAMMAD >= 20.0000 (BOTH WALLS)
ITEM NO. 6<GAMMAB >= 10.0000 (BOTH WALLS)
ITEM NO. 7<GAMMAW >= 10.0000 (BOTH WALLS)
ITEM NO. 8<U-COHE >= 24.0000 (BOTH WALLS)
ITEM NO. 9<U-FRICT >= 20.5000 (BOTH WALLS)
ITEM NO. 10<U-KA >= 0.48100 WALL NO. 1
ITEM NO. 11<U-KP >= 2.5410 WALL NO. 1
ITEM NO. 12<K0-NC >= 0.65000 (BOTH WALLS)
ITEM NO. 13<NEXP >= 1.0000 (BOTH WALLS)
ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)
ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)
ITEM NO. 17<EVC >= 75000. (BOTH WALLS)
ITEM NO. 18<EUR >= 0.12000E+06 (BOTH WALLS)
ITEM NO. 27<U-PERM >= 0.10000E-04 (BOTH WALLS)
ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
ITEM NO. 58<D-COHE >= 24.0000 (BOTH WALLS)
ITEM NO. 59<D-FRICT >= 20.5000 (BOTH WALLS)
ITEM NO. 60<D-KA >= 0.48100 WALL NO. 1
ITEM NO. 61<D-KP >= 2.5410 WALL NO. 1
ITEM NO. 77<D-PERM >= 0.10000E-04 (BOTH WALLS)

LAYER DESCRIPTORS FOR STEP NO. 4

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

ITEM NO. 1<NAME >= 16.000 (BOTH WALLS)
ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
ITEM NO. 3<LEVEL >= 2.0000 (BOTH WALLS)
ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)
ITEM NO. 5<GAMMAD >= 20.0000 (BOTH WALLS)
ITEM NO. 6<GAMMAB >= 10.0000 (BOTH WALLS)

ITEM NO. 7<GAMMAW >= 10.000 (BOTH WALLS)
ITEM NO. 9<U-FRICT >= 14.000 (BOTH WALLS)
ITEM NO. 10<U-KA >= 0.61000 WALL NO. 1
ITEM NO. 11<U-KP >= 1.8500 WALL NO. 1
ITEM NO. 12<K0-NC >= 0.75800 (BOTH WALLS)
ITEM NO. 13<NEXP >= 1.0000 (BOTH WALLS)
ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)
ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)
ITEM NO. 17<EVC >= 15000. (BOTH WALLS)
ITEM NO. 18<EUR >= 24000. (BOTH WALLS)
ITEM NO. 27<U-PERM >= 0.10000E-04 (BOTH WALLS)
ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
ITEM NO. 59<D-FRICT >= 14.000 (BOTH WALLS)
ITEM NO. 60<D-KA >= 0.61000 WALL NO. 1
ITEM NO. 61<D-KP >= 1.8500 WALL NO. 1
ITEM NO. 77<D-PERM >= 0.10000E-04 (BOTH WALLS)

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

ITEM NO. 1<NAME >= 17.000 (BOTH WALLS)
ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
ITEM NO. 3<LEVEL >= -2.0000 (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 >= 2.0000 (BOTH WALLS)
ITEM NO. 9<U-FRICT >= 24.800 (BOTH WALLS)
ITEM NO. 10<U-KA >= 0.40900 WALL NO. 1
ITEM NO. 11<U-KP >= 3.1870 WALL NO. 1
ITEM NO. 12<K0-NC >= 0.58100 (BOTH WALLS)
ITEM NO. 13<NEXP >= 1.0000 (BOTH WALLS)
ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)
ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)
ITEM NO. 17<EVC >= 50000. (BOTH WALLS)
ITEM NO. 18<EUR >= 80000. (BOTH WALLS)
ITEM NO. 27<U-PERM >= 0.10000E-04 (BOTH WALLS)
ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
ITEM NO. 58<D-COHE >= 2.0000 (BOTH WALLS)
ITEM NO. 59<D-FRICT >= 24.800 (BOTH WALLS)
ITEM NO. 60<D-KA >= 0.40900 WALL NO. 1
ITEM NO. 61<D-KP >= 3.1870 WALL NO. 1
ITEM NO. 77<D-PERM >= 0.10000E-04 (BOTH WALLS)

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

ITEM NO. 1<NAME >= 18.000 (BOTH WALLS)
ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
ITEM NO. 3<LEVEL >= -13.000 (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 >= 24.000 (BOTH WALLS)
ITEM NO. 9<U-FRICT >= 20.500 (BOTH WALLS)
ITEM NO. 10<U-KA >= 0.48100 WALL NO. 1
ITEM NO. 11<U-KP >= 2.5410 WALL NO. 1
ITEM NO. 12<K0-NC >= 0.65000 (BOTH WALLS)
ITEM NO. 13<NEXP >= 1.0000 (BOTH WALLS)
ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)
ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)
ITEM NO. 17<EVC >= 75000. (BOTH WALLS)
ITEM NO. 18<EUR >= 0.12000E+06 (BOTH WALLS)
ITEM NO. 27<U-PERM >= 0.10000E-04 (BOTH WALLS)
ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
ITEM NO. 58<D-COHE >= 24.000 (BOTH WALLS)
ITEM NO. 59<D-FRICT >= 20.500 (BOTH WALLS)
ITEM NO. 60<D-KA >= 0.48100 WALL NO. 1
ITEM NO. 61<D-KP >= 2.5410 WALL NO. 1
ITEM NO. 77<D-PERM >= 0.10000E-04 (BOTH WALLS)

LAYER DESCRIPTORS FOR STEP NO. 5

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 1 FOR STEP NO. 5

ITEM NO. 1<NAME >= 16.000 (BOTH WALLS)
ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
ITEM NO. 3<LEVEL >= 2.0000 (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. 9<U-FRICT >= 14.000 (BOTH WALLS)
ITEM NO. 10<U-KA >= 0.61000 WALL NO. 1
ITEM NO. 11<U-KP >= 1.8500 WALL NO. 1
ITEM NO. 12<K0-NC >= 0.75800 (BOTH WALLS)
ITEM NO. 13<NEXP >= 1.0000 (BOTH WALLS)
ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)

ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)
 ITEM NO. 17<EVC >= 15000. (BOTH WALLS)
 ITEM NO. 18<EUR >= 24000. (BOTH WALLS)
 ITEM NO. 27<U-PERM >= 0.10000E-04 (BOTH WALLS)
 ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
 ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
 ITEM NO. 59<D-FRICT >= 14.000 (BOTH WALLS)
 ITEM NO. 60<D-KA >= 0.61000 WALL NO. 1
 ITEM NO. 61<D-KP >= 1.8500 WALL NO. 1
 ITEM NO. 77<D-PERM >= 0.10000E-04 (BOTH WALLS)

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 2 FOR STEP NO. 5

ITEM NO. 1<NAME >= 17.000 (BOTH WALLS)
 ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
 ITEM NO. 3<LEVEL >= -2.0000 (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 >= 2.0000 (BOTH WALLS)
 ITEM NO. 9<U-FRICT >= 24.800 (BOTH WALLS)
 ITEM NO. 10<U-KA >= 0.40900 WALL NO. 1
 ITEM NO. 11<U-KP >= 3.1870 WALL NO. 1
 ITEM NO. 12<K0-NC >= 0.58100 (BOTH WALLS)
 ITEM NO. 13<NEXP >= 1.0000 (BOTH WALLS)
 ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)
 ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)
 ITEM NO. 17<EVC >= 50000. (BOTH WALLS)
 ITEM NO. 18<EUR >= 80000. (BOTH WALLS)
 ITEM NO. 27<U-PERM >= 0.10000E-04 (BOTH WALLS)
 ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
 ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
 ITEM NO. 58<D-COHE >= 2.0000 (BOTH WALLS)
 ITEM NO. 59<D-FRICT >= 24.800 (BOTH WALLS)
 ITEM NO. 60<D-KA >= 0.40900 WALL NO. 1
 ITEM NO. 61<D-KP >= 3.1870 WALL NO. 1
 ITEM NO. 77<D-PERM >= 0.10000E-04 (BOTH WALLS)

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 3 FOR STEP NO. 5

ITEM NO. 1<NAME >= 18.000 (BOTH WALLS)
 ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
 ITEM NO. 3<LEVEL >= -13.000 (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 >= 24.000 (BOTH WALLS)
 ITEM NO. 9<U-FRICT >= 20.500 (BOTH WALLS)
 ITEM NO. 10<U-KA >= 0.48100 WALL NO. 1
 ITEM NO. 11<U-KP >= 2.5410 WALL NO. 1
 ITEM NO. 12<K0-NC >= 0.65000 (BOTH WALLS)
 ITEM NO. 13<NEXP >= 1.0000 (BOTH WALLS)
 ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)
 ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)
 ITEM NO. 17<EVC >= 75000. (BOTH WALLS)
 ITEM NO. 18<EUR >= 0.12000E+06 (BOTH WALLS)
 ITEM NO. 27<U-PERM >= 0.10000E-04 (BOTH WALLS)
 ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
 ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
 ITEM NO. 58<D-COHE >= 24.000 (BOTH WALLS)
 ITEM NO. 59<D-FRICT >= 20.500 (BOTH WALLS)
 ITEM NO. 60<D-KA >= 0.48100 WALL NO. 1
 ITEM NO. 61<D-KP >= 2.5410 WALL NO. 1
 ITEM NO. 77<D-PERM >= 0.10000E-04 (BOTH WALLS)

LAYER DESCRIPTORS FOR STEP NO. 6

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 1 FOR STEP NO. 6

ITEM NO. 1<NAME >= 16.000 (BOTH WALLS)
 ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
 ITEM NO. 3<LEVEL >= 2.0000 (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. 9<U-FRICT >= 14.000 (BOTH WALLS)
 ITEM NO. 10<U-KA >= 0.61000 WALL NO. 1
 ITEM NO. 11<U-KP >= 1.8500 WALL NO. 1
 ITEM NO. 12<K0-NC >= 0.75800 (BOTH WALLS)
 ITEM NO. 13<NEXP >= 1.0000 (BOTH WALLS)
 ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)
 ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)
 ITEM NO. 17<EVC >= 15000. (BOTH WALLS)
 ITEM NO. 18<EUR >= 24000. (BOTH WALLS)
 ITEM NO. 27<U-PERM >= 0.10000E-04 (BOTH WALLS)
 ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
 ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
 ITEM NO. 59<D-FRICT >= 14.000 (BOTH WALLS)

ITEM NO. 60<D-KA >= 0.61000 WALL NO. 1
 ITEM NO. 61<D-KP >= 1.8500 WALL NO. 1
 ITEM NO. 77<D-PERM >= 0.10000E-04 (BOTH WALLS)

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 2 FOR STEP NO. 6

ITEM NO. 1<NAME >= 17.000 (BOTH WALLS)
 ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
 ITEM NO. 3<LEVEL >= -2.0000 (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 >= 2.0000 (BOTH WALLS)
 ITEM NO. 9<U-FRICT >= 24.800 (BOTH WALLS)
 ITEM NO. 10<U-KA >= 0.40900 WALL NO. 1
 ITEM NO. 11<U-KP >= 3.1870 WALL NO. 1
 ITEM NO. 12<K0-NC >= 0.58100 (BOTH WALLS)
 ITEM NO. 13<NEXP >= 1.0000 (BOTH WALLS)
 ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)
 ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)
 ITEM NO. 17<EVC >= 50000. (BOTH WALLS)
 ITEM NO. 18<EUR >= 80000. (BOTH WALLS)
 ITEM NO. 27<U-PERM >= 0.10000E-04 (BOTH WALLS)
 ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
 ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
 ITEM NO. 58<D-COHE >= 2.0000 (BOTH WALLS)
 ITEM NO. 59<D-FRICT >= 24.800 (BOTH WALLS)
 ITEM NO. 60<D-KA >= 0.40900 WALL NO. 1
 ITEM NO. 61<D-KP >= 3.1870 WALL NO. 1
 ITEM NO. 77<D-PERM >= 0.10000E-04 (BOTH WALLS)

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 3 FOR STEP NO. 6

ITEM NO. 1<NAME >= 18.000 (BOTH WALLS)
 ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
 ITEM NO. 3<LEVEL >= -13.000 (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 >= 24.000 (BOTH WALLS)
 ITEM NO. 9<U-FRICT >= 20.500 (BOTH WALLS)
 ITEM NO. 10<U-KA >= 0.48100 WALL NO. 1
 ITEM NO. 11<U-KP >= 2.5410 WALL NO. 1
 ITEM NO. 12<K0-NC >= 0.65000 (BOTH WALLS)
 ITEM NO. 13<NEXP >= 1.0000 (BOTH WALLS)
 ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)
 ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)
 ITEM NO. 17<EVC >= 75000. (BOTH WALLS)
 ITEM NO. 18<EUR >= 0.12000E+06 (BOTH WALLS)
 ITEM NO. 27<U-PERM >= 0.10000E-04 (BOTH WALLS)
 ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
 ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
 ITEM NO. 58<D-COHE >= 24.000 (BOTH WALLS)
 ITEM NO. 59<D-FRICT >= 20.500 (BOTH WALLS)
 ITEM NO. 60<D-KA >= 0.48100 WALL NO. 1
 ITEM NO. 61<D-KP >= 2.5410 WALL NO. 1
 ITEM NO. 77<D-PERM >= 0.10000E-04 (BOTH WALLS)

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|                PARATIE PLUS 2014 NLS ENGINE RELEASE  2016  FULL VERSION  *Build date: Sept23, 2015*                |
|                                                                                                                                            |
|                                                                 NewProject.BaseDesignSection_25.Nominal_60                               |
|                                                                 Exe Time :29 June 2020      21:03:22                               |
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PHASE DESCRIPTORS

```

STEP NO.      1

                LEFT WALL      RIGHT WALL
Y              0.000          -0.9990E+30
Z-PC           2.000           0.000
Z-EXCAVATION   2.000           0.000
Z-WATER_TABLE -30.00          -0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL  0.000           0.000
ZQ             0.000           0.000
DZW_OF_THE_WATER_TABLE  0.000           0.000
QS_ON_THE_EXCAVATION_SIDE  0.000           0.000
ZQS           -0.9990E+30     -0.9990E+30
ZCUT           0.000           0.000
BALANCE LEVEL FOR PORE PRESSURES -16.00          -16.00
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

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=====end of step 1

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STEP NO.      2

                LEFT WALL      RIGHT WALL
Y              0.000          -0.9990E+30
Z-PC           2.000           0.000
Z-EXCAVATION   -2.000          0.000
Z-WATER_TABLE -30.00          -0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL  0.000           0.000
ZQ             0.000           0.000
DZW_OF_THE_WATER_TABLE  0.000           0.000
QS_ON_THE_EXCAVATION_SIDE  0.000           0.000
ZQS           -0.9990E+30     -0.9990E+30
ZCUT           0.000           0.000
BALANCE LEVEL FOR PORE PRESSURES -16.00          -16.00
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

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

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STEP NO.      3

                LEFT WALL      RIGHT WALL
Y              0.000          -0.9990E+30

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Z-PC	2.000	0.000
Z-EXCAVATION	-2.000	0.000
Z-WATER_TABLE	-30.00	-0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL	0.000	0.000
ZQ	0.000	0.000
DZW_OF_THE_WATER_TABLE	0.000	0.000
QS_ON_THE_EXCAVATION_SIDE	0.000	0.000
ZQS	-0.9990E+30	-0.9990E+30
ZCUT	0.000	0.000
BALANCE LEVEL FOR PORE PRESSURES	-16.00	-16.00
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		
		LEFT WALL	RIGHT WALL
Y		0.000	-0.9990E+30
Z-PC		2.000	0.000
Z-EXCAVATION		-6.000	0.000
Z-WATER_TABLE		-30.00	-0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL		0.000	0.000
ZQ		0.000	0.000
DZW_OF_THE_WATER_TABLE		0.000	0.000
QS_ON_THE_EXCAVATION_SIDE		0.000	0.000
ZQS		-0.9990E+30	-0.9990E+30
ZCUT		0.000	0.000
BALANCE LEVEL FOR PORE PRESSURES		-16.00	-16.00
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

STEP NO.	5		
		LEFT WALL	RIGHT WALL
Y		0.000	-0.9990E+30
Z-PC		2.000	0.000
Z-EXCAVATION		-6.000	0.000
Z-WATER_TABLE		-30.00	-0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL		0.000	0.000
ZQ		0.000	0.000
DZW_OF_THE_WATER_TABLE		0.000	0.000
QS_ON_THE_EXCAVATION_SIDE		0.000	0.000
ZQS		-0.9990E+30	-0.9990E+30
ZCUT		0.000	0.000
BALANCE LEVEL FOR PORE PRESSURES		-16.00	-16.00
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 5

STEP NO.	6		
		LEFT WALL	RIGHT WALL
Y		0.000	-0.9990E+30
Z-PC		2.000	0.000
Z-EXCAVATION		-7.100	0.000
Z-WATER_TABLE		-30.00	-0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL		0.000	0.000
ZQ		0.000	0.000
DZW_OF_THE_WATER_TABLE		0.000	0.000
QS_ON_THE_EXCAVATION_SIDE		0.000	0.000
ZQS		-0.9990E+30	-0.9990E+30
ZCUT		0.000	0.000
BALANCE LEVEL FOR PORE PRESSURES		-16.00	-16.00
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 6

LEFT-HAND WALL

LOWER LEVEL	-16.00000
UPPER LEVEL	2.00000

RIGHT-HAND WALL

LOWER LEVEL	-16.00000
UPPER LEVEL	2.00000


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|                PARATIE PLUS 2014 NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Sept23, 2015*                |
|                                                                                                                    |
|                NewProject.BaseDesignSection_25.Nominal_60                                                         |
|                Exe Time :29 June 2020      21:03:22                                                                |
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INITIAL STRESS TABLES

SECTION

NUMBER OF DEFINED TABLES 1

INPUT DATA FOR INITIAL STRESS SET NO. 1
 PERTAINING SOIL ELEMENTS AT Y-COORD 0.0000

ACTIVATION TIME 1.0000
 END TIME (TIME BEYOND WHICH IT IS REMOVED) 6.0000

TYPE BOUSSINESQ

HORIZONTAL DISTANCE (DY) 31.00000000000000
 FOUNDATION WIDTH (B) 30.50000000000000
 ZETA-F..... 2.0000000000000000
 Q-F 25.6000000000000000
 BETA 45.0000000000000000
 BEHAVIOUR (0=FREE, 1=REFLECTING) 0.0000000000000000E+000

ELEMENT GROUPS BACKUP AREA CAN STAY IN CORE AT
 POSITION 5603

NO. OF D.P.W FOR THIS AREA 8691
 MAX NO. OF D.P.W. AVAILABLE 81920
 ** MAX NO OF ITERATIONS SET TO 40

```

ITER 0 RNORM = 0.000 RMNORM= 0.000
      RINORM=0.1195E+06 RIMNOR= 0.000
      RENORM=0.3402E-29 REMNOR= 0.000 RATIO =0.5336E-17 TOLER =0.1000E-03 CONVERGED !
      RFMAX = 46.94 RMMAX = 0.000
      RTSMAL=0.1000E-03 RMSMAL= 0.000
      RDT =0.1195E+06 RDR = 0.000
      RATIOI=0.5336E-17 RATIOIR= 0.000
      MAX UN=0.2220E-15 IEQ= 5 NODE 3 DOF 1 Y-DISPL.F
      MIN UN=-.1776E-14 IEQ= 33 NODE 17 DOF 1 Y-DISPL.F
      NO. OF CONTACT CONSTRAINT VIOLATIONS 0

```

```

ITER 1 RNORM = 0.000 RMNORM= 0.000
      RINORM=0.1195E+06 RIMNOR= 0.000
      RENORM=0.1376E-30 REMNOR=0.6545E-53 RATIO =0.1073E-17 TOLER =0.1000E-03 CONVERGED !
      RFMAX = 46.94 RMMAX = 0.000
      RTSMAL=0.1000E-03 RMSMAL= 0.000
      RDT =0.1195E+06 RDR = 0.000
      RATIOI=0.1073E-17 RATIOIR= 0.000
      MAX UN=0.7372E-17 IEQ= 115 NODE 58 DOF 1 Y-DISPL.F
      MIN UN=-.1148E-15 IEQ= 41 NODE 21 DOF 1 Y-DISPL.F
      NO. OF CONTACT CONSTRAINT VIOLATIONS 0

```

```

ITER 2 RNORM = 0.000 RMNORM= 0.000
      RINORM=0.1195E+06 RIMNOR= 0.000
      RENORM=0.1321E-30 REMNOR=0.1773E-52 RATIO =0.1051E-17 TOLER =0.1000E-03 CONVERGED !
      RFMAX = 46.94 RMMAX = 0.000
      RTSMAL=0.1000E-03 RMSMAL= 0.000
      RDT =0.1195E+06 RDR = 0.000
      RATIOI=0.1051E-17 RATIOIR= 0.000
      MAX UN=0.8737E-17 IEQ= 127 NODE 64 DOF 1 Y-DISPL.F
      MIN UN=-.1040E-15 IEQ= 41 NODE 21 DOF 1 Y-DISPL.F
      NO. OF CONTACT CONSTRAINT VIOLATIONS 0

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|          PARATIE PLUS 2014 NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Sept23, 2015*          |
|                                                                                                                                            |
|                                                                 NewProject.BaseDesignSection_25.Nominal_60                               |
|                                                                 Exe Time :29 June 2020      21:03:22                               |
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New Project

SOLUTION REACHED USING 2 ITERATIONS ON 40

PRINT OUT FOR TIME STEP 1 (AT TIME 1.000)

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

Y-DISPL.F	X-ROT. F	(
(02)	(04)	

ALL NODAL POINTS HAVE ZERO DISPLACEMENT COMPONENTS

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+-----+
|                PARATIE PLUS 2014 NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Sept23, 2015*                |
|                                                                                                                    |
|                NewProject.BaseDesignSection_25.Nominal_60                                                         |
|                Exe Time :29 June 2020 21:03:22                                                                    |
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New Project

STRESS RESULTS FOR GROUP NO. 1

0_L :
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 91
CURRENT TIME IS 1.0000

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 LAYER	MAX-H-P	STATE	STIFFNESS	Z-LEVEL	PORE	E FAC-
1 D	0.000	3.5878E-20	0.000	0.000	0.000	0.000	V-C	8000.	2.000	0.000	
1.000	1.000	0.000	0.000	0.000	FRANA_334_8_L_0						
2 D	0.6168	3.5093E-20	4.000	3.084	4.000	3.084	V-C	8000.	1.800	0.000	
1.000	1.000	3.084	0.000	0.000	FRANA_334_8_L_0						
3 D	1.234	3.4308E-20	8.000	6.168	8.000	6.168	V-C	8000.	1.600	0.000	
1.000	1.000	6.168	0.000	0.000	FRANA_334_8_L_0						
4 D	1.850	3.3521E-20	12.00	9.252	12.00	9.252	V-C	8000.	1.400	0.000	
1.000	1.000	9.252	0.000	0.000	FRANA_334_8_L_0						
5 D	2.467	3.2732E-20	16.00	12.34	16.00	12.34	V-C	8000.	1.200	0.000	
1.000	1.000	12.34	0.000	0.000	FRANA_334_8_L_0						
6 D	3.084	3.1937E-20	20.00	15.42	20.00	15.42	V-C	8000.	1.000	0.000	
1.000	1.000	15.42	0.000	0.000	FRANA_334_8_L_0						
7 D	3.701	3.1136E-20	24.00	18.50	24.00	18.50	V-C	8000.	0.8000	0.000	
1.000	1.000	18.50	0.000	0.000	FRANA_334_8_L_0						
8 D	4.318	3.0328E-20	28.00	21.59	28.00	21.59	V-C	8000.	0.6000	0.000	
1.000	1.000	21.59	0.000	0.000	FRANA_334_8_L_0						
9 D	4.934	2.9513E-20	32.00	24.67	32.00	24.67	V-C	8000.	0.4000	0.000	
1.000	1.000	24.67	0.000	0.000	FRANA_334_8_L_0						
10 D	5.551	2.8688E-20	36.00	27.76	36.00	27.76	V-C	8000.	0.2000	0.000	
1.000	1.000	27.76	0.000	0.000	FRANA_334_8_L_0						
11 D	6.168	2.7853E-20	40.00	30.84	40.00	30.84	V-C	8000.	-1.4901E-07	0.000	
1.000	1.000	30.84	0.000	0.000	FRANA_334_8_L_0						
12 D	6.784	2.7005E-20	44.00	33.92	44.00	33.92	V-C	8000.	-0.2000	0.000	
1.000	1.000	33.92	0.000	0.000	FRANA_334_8_L_0						
13 D	7.401	2.6142E-20	48.00	37.01	48.00	37.01	V-C	8000.	-0.4000	0.000	
1.000	1.000	37.01	0.000	0.000	FRANA_334_8_L_0						
14 D	8.018	2.5262E-20	52.00	40.09	52.00	40.09	V-C	8000.	-0.6000	0.000	
1.000	1.000	40.09	0.000	0.000	FRANA_334_8_L_0						
15 D	8.634	2.4362E-20	56.00	43.17	56.00	43.17	V-C	8000.	-0.8000	0.000	
1.000	1.000	43.17	0.000	0.000	FRANA_334_8_L_0						
16 D	9.251	2.3439E-20	60.00	46.25	60.00	46.25	V-C	8000.	-1.000	0.000	
1.000	1.000	46.25	0.000	0.000	FRANA_334_8_L_0						
17 D	9.867	2.2490E-20	64.01	49.34	64.01	49.34	V-C	8000.	-1.200	0.000	
1.000	1.000	49.34	0.000	0.000	FRANA_334_8_L_0						
18 D	10.48	2.1513E-20	68.01	52.42	68.01	52.42	V-C	8000.	-1.400	0.000	
1.000	1.000	52.42	0.000	0.000	FRANA_334_8_L_0						
19 D	11.10	2.0513E-20	72.01	55.50	72.01	55.50	V-C	8000.	-1.600	0.000	
1.000	1.000	55.50	0.000	0.000	FRANA_334_8_L_0						
20 D	11.72	1.9498E-20	76.01	58.58	76.01	58.58	V-C	8000.	-1.800	0.000	
1.000	1.000	58.58	0.000	0.000	FRANA_334_8_L_0						
21 D	9.501	1.8474E-20	80.01	47.50	80.01	47.50	V-C	3.2576E+04	-2.000	0.000	
1.000	1.000	47.50	0.000	0.000	BNA3(2)_335_337_L_0						
22 D	9.975	1.7449E-20	84.01	49.88	84.01	49.88	V-C	3.2576E+04	-2.200	0.000	
1.000	1.000	49.88	0.000	0.000	BNA3(2)_335_337_L_0						
23 D	10.45	1.6427E-20	88.01	52.25	88.01	52.25	V-C	3.2576E+04	-2.400	0.000	
1.000	1.000	52.25	0.000	0.000	BNA3(2)_335_337_L_0						
24 D	10.92	1.5414E-20	92.02	54.62	92.02	54.62	V-C	3.2576E+04	-2.600	0.000	
1.000	1.000	54.62	0.000	0.000	BNA3(2)_335_337_L_0						
25 D	11.40	1.4416E-20	96.02	56.99	96.02	56.99	V-C	3.2576E+04	-2.800	0.000	
1.000	1.000	56.99	0.000	0.000	BNA3(2)_335_337_L_0						
26 D	11.87	1.3436E-20	100.0	59.36	100.0	59.36	V-C	3.2576E+04	-3.000	0.000	
1.000	1.000	59.36	0.000	0.000	BNA3(2)_335_337_L_0						
27 D	12.35	1.2479E-20	104.0	61.74	104.0	61.74	V-C	3.2576E+04	-3.200	0.000	
1.000	1.000	61.74	0.000	0.000	BNA3(2)_335_337_L_0						
28 D	12.82	1.1547E-20	108.0	64.11	108.0	64.11	V-C	3.2576E+04	-3.400	0.000	
1.000	1.000	64.11	0.000	0.000	BNA3(2)_335_337_L_0						
29 D	13.30	1.0643E-20	112.0	66.48	112.0	66.48	V-C	3.2576E+04	-3.600	0.000	
1.000	1.000	66.48	0.000	0.000	BNA3(2)_335_337_L_0						
30 D	13.77	9.7691E-21	116.0	68.85	116.0	68.85	V-C	3.2576E+04	-3.800	0.000	
1.000	1.000	68.85	0.000	0.000	BNA3(2)_335_337_L_0						
31 D	14.24	8.9283E-21	120.0	71.22	120.0	71.22	V-C	3.2576E+04	-4.000	0.000	
1.000	1.000	71.22	0.000	0.000	BNA3(2)_335_337_L_0						
32 D	14.72	8.1215E-21	124.0	73.59	124.0	73.59	V-C	3.2576E+04	-4.200	0.000	
1.000	1.000	73.59	0.000	0.000	BNA3(2)_335_337_L_0						
33 D	15.19	7.3500E-21	128.0	75.96	128.0	75.96	V-C	3.2576E+04	-4.400	0.000	
1.000	1.000	75.96	0.000	0.000	BNA3(2)_335_337_L_0						

34 D	15.67	6.6148E-21	132.0	78.33	132.0	78.33	V-C	3.2576E+04	-4.600	0.000
1.000	1.000	78.33	0.000	0.000	BNA3(2)_335_337_L_0					
35 D	16.14	5.9165E-21	136.0	80.69	136.0	80.69	V-C	3.2576E+04	-4.800	0.000
1.000	1.000	80.69	0.000	0.000	BNA3(2)_335_337_L_0					
36 D	16.61	5.2553E-21	140.1	83.06	140.1	83.06	V-C	3.2576E+04	-5.000	0.000
1.000	1.000	83.06	0.000	0.000	BNA3(2)_335_337_L_0					
37 D	17.09	4.6315E-21	144.1	85.43	144.1	85.43	V-C	3.2576E+04	-5.200	0.000
1.000	1.000	85.43	0.000	0.000	BNA3(2)_335_337_L_0					
38 D	17.56	4.0448E-21	148.1	87.80	148.1	87.80	V-C	3.2576E+04	-5.400	0.000
1.000	1.000	87.80	0.000	0.000	BNA3(2)_335_337_L_0					
39 D	18.03	3.4950E-21	152.1	90.16	152.1	90.16	V-C	3.2576E+04	-5.600	0.000
1.000	1.000	90.16	0.000	0.000	BNA3(2)_335_337_L_0					
40 D	18.51	2.9815E-21	156.1	92.53	156.1	92.53	V-C	3.2576E+04	-5.800	0.000
1.000	1.000	92.53	0.000	0.000	BNA3(2)_335_337_L_0					
41 D	18.98	2.5037E-21	160.1	94.89	160.1	94.89	V-C	3.2576E+04	-6.000	0.000
1.000	1.000	94.89	0.000	0.000	BNA3(2)_335_337_L_0					
42 D	19.45	2.0608E-21	164.1	97.26	164.1	97.26	V-C	3.2576E+04	-6.200	0.000
1.000	1.000	97.26	0.000	0.000	BNA3(2)_335_337_L_0					
43 D	19.92	1.6518E-21	168.1	99.62	168.1	99.62	V-C	3.2576E+04	-6.400	0.000
1.000	1.000	99.62	0.000	0.000	BNA3(2)_335_337_L_0					
44 D	20.40	1.2758E-21	172.1	102.0	172.1	102.0	V-C	3.2576E+04	-6.600	0.000
1.000	1.000	102.0	0.000	0.000	BNA3(2)_335_337_L_0					
45 D	20.87	9.3150E-22	176.1	104.3	176.1	104.3	V-C	3.2576E+04	-6.800	0.000
1.000	1.000	104.3	0.000	0.000	BNA3(2)_335_337_L_0					
46 D	21.34	6.1783E-22	180.1	106.7	180.1	106.7	V-C	3.2576E+04	-7.000	0.000
1.000	1.000	106.7	0.000	0.000	BNA3(2)_335_337_L_0					
47 D	21.82	3.3351E-22	184.1	109.1	184.1	109.1	V-C	3.2576E+04	-7.200	0.000
1.000	1.000	109.1	0.000	0.000	BNA3(2)_335_337_L_0					
48 D	22.29	7.7237E-23	188.1	111.4	188.1	111.4	V-C	3.2576E+04	-7.400	0.000
1.000	1.000	111.4	0.000	0.000	BNA3(2)_335_337_L_0					
49 D	22.76	-1.5232E-22	192.1	113.8	192.1	113.8	V-C	3.2576E+04	-7.600	0.000
1.000	1.000	113.8	0.000	0.000	BNA3(2)_335_337_L_0					
50 D	23.23	-3.5651E-22	196.1	116.2	196.1	116.2	V-C	3.2576E+04	-7.800	0.000
1.000	1.000	116.2	0.000	0.000	BNA3(2)_335_337_L_0					
51 D	23.70	-5.3671E-22	200.1	118.5	200.1	118.5	V-C	3.2576E+04	-8.000	0.000
1.000	1.000	118.5	0.000	0.000	BNA3(2)_335_337_L_0					
52 D	24.18	-6.9427E-22	204.1	120.9	204.1	120.9	V-C	3.2576E+04	-8.200	0.000
1.000	1.000	120.9	0.000	0.000	BNA3(2)_335_337_L_0					
53 D	24.65	-8.3057E-22	208.2	123.2	208.2	123.2	V-C	3.2576E+04	-8.400	0.000
1.000	1.000	123.2	0.000	0.000	BNA3(2)_335_337_L_0					
54 D	25.12	-9.4694E-22	212.2	125.6	212.2	125.6	V-C	3.2576E+04	-8.600	0.000
1.000	1.000	125.6	0.000	0.000	BNA3(2)_335_337_L_0					
55 D	25.59	-1.0447E-21	216.2	128.0	216.2	128.0	V-C	3.2576E+04	-8.800	0.000
1.000	1.000	128.0	0.000	0.000	BNA3(2)_335_337_L_0					
56 D	26.06	-1.1252E-21	220.2	130.3	220.2	130.3	V-C	3.2576E+04	-9.000	0.000
1.000	1.000	130.3	0.000	0.000	BNA3(2)_335_337_L_0					
57 D	26.53	-1.1896E-21	224.2	132.7	224.2	132.7	V-C	3.2576E+04	-9.200	0.000
1.000	1.000	132.7	0.000	0.000	BNA3(2)_335_337_L_0					
58 D	27.01	-1.2392E-21	228.2	135.0	228.2	135.0	V-C	3.2576E+04	-9.400	0.000
1.000	1.000	135.0	0.000	0.000	BNA3(2)_335_337_L_0					
59 D	27.48	-1.2752E-21	232.2	137.4	232.2	137.4	V-C	3.2576E+04	-9.600	0.000
1.000	1.000	137.4	0.000	0.000	BNA3(2)_335_337_L_0					
60 D	27.95	-1.2987E-21	236.2	139.7	236.2	139.7	V-C	3.2576E+04	-9.800	0.000
1.000	1.000	139.7	0.000	0.000	BNA3(2)_335_337_L_0					
61 D	28.42	-1.3109E-21	240.2	142.1	240.2	142.1	V-C	3.2576E+04	-10.000	0.000
1.000	1.000	142.1	0.000	0.000	BNA3(2)_335_337_L_0					
62 D	28.89	-1.3126E-21	244.2	144.4	244.2	144.4	V-C	3.2576E+04	-10.200	0.000
1.000	1.000	144.4	0.000	0.000	BNA3(2)_335_337_L_0					
63 D	29.36	-1.3050E-21	248.2	146.8	248.2	146.8	V-C	3.2576E+04	-10.400	0.000
1.000	1.000	146.8	0.000	0.000	BNA3(2)_335_337_L_0					
64 D	29.83	-1.2890E-21	252.3	149.2	252.3	149.2	V-C	3.2576E+04	-10.600	0.000
1.000	1.000	149.2	0.000	0.000	BNA3(2)_335_337_L_0					
65 D	30.30	-1.2654E-21	256.3	151.5	256.3	151.5	V-C	3.2576E+04	-10.800	0.000
1.000	1.000	151.5	0.000	0.000	BNA3(2)_335_337_L_0					
66 D	30.77	-1.2350E-21	260.3	153.9	260.3	153.9	V-C	3.2576E+04	-11.000	0.000
1.000	1.000	153.9	0.000	0.000	BNA3(2)_335_337_L_0					
67 D	31.24	-1.1988E-21	264.3	156.2	264.3	156.2	V-C	3.2576E+04	-11.200	0.000
1.000	1.000	156.2	0.000	0.000	BNA3(2)_335_337_L_0					
68 D	31.71	-1.1573E-21	268.3	158.6	268.3	158.6	V-C	3.2576E+04	-11.400	0.000
1.000	1.000	158.6	0.000	0.000	BNA3(2)_335_337_L_0					
69 D	32.18	-1.1112E-21	272.3	160.9	272.3	160.9	V-C	3.2576E+04	-11.600	0.000
1.000	1.000	160.9	0.000	0.000	BNA3(2)_335_337_L_0					
70 D	32.65	-1.0612E-21	276.3	163.3	276.3	163.3	V-C	3.2576E+04	-11.800	0.000
1.000	1.000	163.3	0.000	0.000	BNA3(2)_335_337_L_0					
71 D	33.12	-1.0078E-21	280.3	165.6	280.3	165.6	V-C	3.2576E+04	-12.000	0.000
1.000	1.000	165.6	0.000	0.000	BNA3(2)_335_337_L_0					
72 D	33.59	-9.5155E-22	284.4	168.0	284.4	168.0	V-C	3.2576E+04	-12.200	0.000
1.000	1.000	168.0	0.000	0.000	BNA3(2)_335_337_L_0					
73 D	34.06	-8.9289E-22	288.4	170.3	288.4	170.3	V-C	3.2576E+04	-12.400	0.000
1.000	1.000	170.3	0.000	0.000	BNA3(2)_335_337_L_0					
74 D	34.53	-8.3225E-22	292.4	172.6	292.4	172.6	V-C	3.2576E+04	-12.600	0.000
1.000	1.000	172.6	0.000	0.000	BNA3(2)_335_337_L_0					
75 D	35.00	-7.7002E-22	296.4	175.0	296.4	175.0	V-C	3.2576E+04	-12.800	0.000
1.000	1.000	175.0	0.000	0.000	BNA3(2)_335_337_L_0					
76 D	35.47	-7.0654E-22	300.4	177.3	300.4	177.3	V-C	3.2576E+04	-13.000	0.000
1.000	1.000	177.3	0.000	0.000	BNA3(2)_335_337_L_0					
77 D	40.13	-6.4212E-22	304.4	200.7	304.4	200.7	V-C	4.5047E+04	-13.200	0.000
1.000	1.000	200.7	0.000	0.000	BNA3(3)_336_338_L_0					
78 D	40.66	-5.7701E-22	308.4	203.3	308.4	203.3	V-C	4.5047E+04	-13.400	0.000
1.000	1.000	203.3	0.000	0.000	BNA3(3)_336_338_L_0					
79 D	41.18	-5.1144E-22	312.4	205.9	312.4	205.9	V-C	4.5047E+04	-13.600	0.000
1.000	1.000	205.9	0.000	0.000	BNA3(3)_336_338_L_0					

80 D	41.70	-4.4559E-22	316.5	208.5	316.5	208.5	V-C	4.5047E+04	-13.80	0.000
1.000	1.000	208.5	0.000	0.000	BNA3(3)_336_338_L_0					
81 D	42.23	-3.7959E-22	320.5	211.1	320.5	211.1	V-C	4.5047E+04	-14.00	0.000
1.000	1.000	211.1	0.000	0.000	BNA3(3)_336_338_L_0					
82 D	42.75	-3.1354E-22	324.5	213.8	324.5	213.8	V-C	4.5047E+04	-14.20	0.000
1.000	1.000	213.8	0.000	0.000	BNA3(3)_336_338_L_0					
83 D	43.28	-2.4752E-22	328.5	216.4	328.5	216.4	V-C	4.5047E+04	-14.40	0.000
1.000	1.000	216.4	0.000	0.000	BNA3(3)_336_338_L_0					
84 D	43.80	-1.8157E-22	332.5	219.0	332.5	219.0	V-C	4.5047E+04	-14.60	0.000
1.000	1.000	219.0	0.000	0.000	BNA3(3)_336_338_L_0					
85 D	44.32	-1.1571E-22	336.5	221.6	336.5	221.6	V-C	4.5047E+04	-14.80	0.000
1.000	1.000	221.6	0.000	0.000	BNA3(3)_336_338_L_0					
86 D	44.85	-4.9947E-23	340.5	224.2	340.5	224.2	V-C	4.5047E+04	-15.00	0.000
1.000	1.000	224.2	0.000	0.000	BNA3(3)_336_338_L_0					
87 D	45.37	1.5733E-23	344.6	226.8	344.6	226.8	V-C	4.5047E+04	-15.20	0.000
1.000	1.000	226.8	0.000	0.000	BNA3(3)_336_338_L_0					
88 D	45.89	8.1346E-23	348.6	229.5	348.6	229.5	V-C	4.5047E+04	-15.40	0.000
1.000	1.000	229.5	0.000	0.000	BNA3(3)_336_338_L_0					
89 D	46.42	1.4691E-22	352.6	232.1	352.6	232.1	V-C	4.5047E+04	-15.60	0.000
1.000	1.000	232.1	0.000	0.000	BNA3(3)_336_338_L_0					
90 D	46.94	2.1246E-22	356.6	234.7	356.6	234.7	V-C	4.5047E+04	-15.80	0.000
1.000	1.000	234.7	0.000	0.000	BNA3(3)_336_338_L_0					
91 D	23.73	2.7799E-22	360.6	237.3	360.6	237.3	V-C	4.5047E+04	-16.00	0.000
1.000	1.000	237.3	0.000	0.000	BNA3(3)_336_338_L_0					

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|                PARATIE PLUS 2014 NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Sept23, 2015*                |
|                                                                                                                    |
|                NewProject.BaseDesignSection_25.Nominal_60                                                         |
|                Exe Time :29 June 2020 21:03:22                                                                    |
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New Project

STRESS RESULTS FOR GROUP NO. 2

O_R :
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 91
CURRENT TIME IS 1.0000

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 LAYER	MAX-H-P	STATE	STIFFNESS	Z-LEVEL	PORE	E FAC-
1 D	0.000	-3.5878E-20	0.000	0.000	0.000	0.000	V-C	9766.	2.000	0.000	
1.000	1.000	0.000	0.000	0.000	FRANA_334_8_L_0						
2 D	0.6168	-3.5093E-20	4.000	3.084	4.000	3.084	V-C	9766.	1.800	0.000	
1.000	1.000	3.084	0.000	0.000	FRANA_334_8_L_0						
3 D	1.234	-3.4308E-20	8.000	6.168	8.000	6.168	V-C	9766.	1.600	0.000	
1.000	1.000	6.168	0.000	0.000	FRANA_334_8_L_0						
4 D	1.850	-3.3521E-20	12.00	9.252	12.00	9.252	V-C	9766.	1.400	0.000	
1.000	1.000	9.252	0.000	0.000	FRANA_334_8_L_0						
5 D	2.467	-3.2732E-20	16.00	12.34	16.00	12.34	V-C	9766.	1.200	0.000	
1.000	1.000	12.34	0.000	0.000	FRANA_334_8_L_0						
6 D	3.084	-3.1937E-20	20.00	15.42	20.00	15.42	V-C	9766.	1.000	0.000	
1.000	1.000	15.42	0.000	0.000	FRANA_334_8_L_0						
7 D	3.701	-3.1136E-20	24.00	18.50	24.00	18.50	V-C	9766.	0.8000	0.000	
1.000	1.000	18.50	0.000	0.000	FRANA_334_8_L_0						
8 D	4.318	-3.0328E-20	28.00	21.59	28.00	21.59	V-C	9766.	0.6000	0.000	
1.000	1.000	21.59	0.000	0.000	FRANA_334_8_L_0						
9 D	4.934	-2.9513E-20	32.00	24.67	32.00	24.67	V-C	9766.	0.4000	0.000	
1.000	1.000	24.67	0.000	0.000	FRANA_334_8_L_0						
10 D	5.551	-2.8688E-20	36.00	27.76	36.00	27.76	V-C	9766.	0.2000	0.000	
1.000	1.000	27.76	0.000	0.000	FRANA_334_8_L_0						
11 D	6.168	-2.7853E-20	40.00	30.84	40.00	30.84	V-C	9766.	-1.4901E-07	0.000	
1.000	1.000	30.84	0.000	0.000	FRANA_334_8_L_0						
12 D	6.784	-2.7005E-20	44.00	33.92	44.00	33.92	V-C	9766.	-0.2000	0.000	
1.000	1.000	33.92	0.000	0.000	FRANA_334_8_L_0						
13 D	7.401	-2.6142E-20	48.00	37.01	48.00	37.01	V-C	9766.	-0.4000	0.000	
1.000	1.000	37.01	0.000	0.000	FRANA_334_8_L_0						
14 D	8.018	-2.5262E-20	52.00	40.09	52.00	40.09	V-C	9766.	-0.6000	0.000	
1.000	1.000	40.09	0.000	0.000	FRANA_334_8_L_0						
15 D	8.634	-2.4362E-20	56.00	43.17	56.00	43.17	V-C	9766.	-0.8000	0.000	
1.000	1.000	43.17	0.000	0.000	FRANA_334_8_L_0						
16 D	9.251	-2.3439E-20	60.00	46.25	60.00	46.25	V-C	9766.	-1.000	0.000	
1.000	1.000	46.25	0.000	0.000	FRANA_334_8_L_0						
17 D	9.867	-2.2490E-20	64.00	49.34	64.00	49.34	V-C	9766.	-1.200	0.000	
1.000	1.000	49.34	0.000	0.000	FRANA_334_8_L_0						
18 D	10.48	-2.1513E-20	68.00	52.42	68.00	52.42	V-C	9766.	-1.400	0.000	
1.000	1.000	52.42	0.000	0.000	FRANA_334_8_L_0						
19 D	11.10	-2.0513E-20	72.00	55.50	72.00	55.50	V-C	9766.	-1.600	0.000	
1.000	1.000	55.50	0.000	0.000	FRANA_334_8_L_0						
20 D	11.72	-1.9498E-20	76.00	58.58	76.00	58.58	V-C	9766.	-1.800	0.000	
1.000	1.000	58.58	0.000	0.000	FRANA_334_8_L_0						
21 D	9.501	-1.8474E-20	80.00	47.50	80.00	47.50	V-C	2.6647E+04	-2.000	0.000	
1.000	1.000	47.50	0.000	0.000	BNA3(2)_335_337_L_0						
22 D	9.975	-1.7449E-20	84.00	49.88	84.00	49.88	V-C	2.6647E+04	-2.200	0.000	
1.000	1.000	49.88	0.000	0.000	BNA3(2)_335_337_L_0						
23 D	10.45	-1.6427E-20	88.00	52.25	88.00	52.25	V-C	2.6647E+04	-2.400	0.000	
1.000	1.000	52.25	0.000	0.000	BNA3(2)_335_337_L_0						
24 D	10.92	-1.5414E-20	92.00	54.62	92.00	54.62	V-C	2.6647E+04	-2.600	0.000	
1.000	1.000	54.62	0.000	0.000	BNA3(2)_335_337_L_0						
25 D	11.40	-1.4416E-20	96.00	56.99	96.00	56.99	V-C	2.6647E+04	-2.800	0.000	
1.000	1.000	56.99	0.000	0.000	BNA3(2)_335_337_L_0						
26 D	11.87	-1.3436E-20	100.0	59.36	100.0	59.36	V-C	2.6647E+04	-3.000	0.000	
1.000	1.000	59.36	0.000	0.000	BNA3(2)_335_337_L_0						
27 D	12.35	-1.2479E-20	104.0	61.74	104.0	61.74	V-C	2.6647E+04	-3.200	0.000	
1.000	1.000	61.74	0.000	0.000	BNA3(2)_335_337_L_0						
28 D	12.82	-1.1547E-20	108.0	64.11	108.0	64.11	V-C	2.6647E+04	-3.400	0.000	
1.000	1.000	64.11	0.000	0.000	BNA3(2)_335_337_L_0						
29 D	13.30	-1.0643E-20	112.0	66.48	112.0	66.48	V-C	2.6647E+04	-3.600	0.000	
1.000	1.000	66.48	0.000	0.000	BNA3(2)_335_337_L_0						
30 D	13.77	-9.7691E-21	116.0	68.85	116.0	68.85	V-C	2.6647E+04	-3.800	0.000	
1.000	1.000	68.85	0.000	0.000	BNA3(2)_335_337_L_0						
31 D	14.24	-8.9283E-21	120.0	71.22	120.0	71.22	V-C	2.6647E+04	-4.000	0.000	
1.000	1.000	71.22	0.000	0.000	BNA3(2)_335_337_L_0						
32 D	14.72	-8.1215E-21	124.0	73.59	124.0	73.59	V-C	2.6647E+04	-4.200	0.000	
1.000	1.000	73.59	0.000	0.000	BNA3(2)_335_337_L_0						
33 D	15.19	-7.3500E-21	128.0	75.96	128.0	75.96	V-C	2.6647E+04	-4.400	0.000	
1.000	1.000	75.96	0.000	0.000	BNA3(2)_335_337_L_0						

34 D	15.67	-6.6148E-21	132.0	78.33	132.0	78.33	V-C	2.6647E+04	-4.600	0.000
1.000	1.000	78.33	0.000	0.000	BNA3(2)_335_337_L_0					
35 D	16.14	-5.9165E-21	136.0	80.69	136.0	80.69	V-C	2.6647E+04	-4.800	0.000
1.000	1.000	80.69	0.000	0.000	BNA3(2)_335_337_L_0					
36 D	16.61	-5.2553E-21	140.0	83.06	140.0	83.06	V-C	2.6647E+04	-5.000	0.000
1.000	1.000	83.06	0.000	0.000	BNA3(2)_335_337_L_0					
37 D	17.09	-4.6315E-21	144.0	85.43	144.0	85.43	V-C	2.6647E+04	-5.200	0.000
1.000	1.000	85.43	0.000	0.000	BNA3(2)_335_337_L_0					
38 D	17.56	-4.0448E-21	148.0	87.80	148.0	87.80	V-C	2.6647E+04	-5.400	0.000
1.000	1.000	87.80	0.000	0.000	BNA3(2)_335_337_L_0					
39 D	18.03	-3.4950E-21	152.0	90.16	152.0	90.16	V-C	2.6647E+04	-5.600	0.000
1.000	1.000	90.16	0.000	0.000	BNA3(2)_335_337_L_0					
40 D	18.51	-2.9815E-21	156.0	92.53	156.0	92.53	V-C	2.6647E+04	-5.800	0.000
1.000	1.000	92.53	0.000	0.000	BNA3(2)_335_337_L_0					
41 D	18.98	-2.5037E-21	160.0	94.89	160.0	94.89	V-C	2.6647E+04	-6.000	0.000
1.000	1.000	94.89	0.000	0.000	BNA3(2)_335_337_L_0					
42 D	19.45	-2.0608E-21	164.0	97.26	164.0	97.26	V-C	2.6647E+04	-6.200	0.000
1.000	1.000	97.26	0.000	0.000	BNA3(2)_335_337_L_0					
43 D	19.92	-1.6518E-21	168.0	99.62	168.0	99.62	V-C	2.6647E+04	-6.400	0.000
1.000	1.000	99.62	0.000	0.000	BNA3(2)_335_337_L_0					
44 D	20.40	-1.2758E-21	172.0	102.0	172.0	102.0	V-C	2.6647E+04	-6.600	0.000
1.000	1.000	102.0	0.000	0.000	BNA3(2)_335_337_L_0					
45 D	20.87	-9.3150E-22	176.0	104.3	176.0	104.3	V-C	2.6647E+04	-6.800	0.000
1.000	1.000	104.3	0.000	0.000	BNA3(2)_335_337_L_0					
46 D	21.34	-6.1783E-22	180.0	106.7	180.0	106.7	V-C	2.6647E+04	-7.000	0.000
1.000	1.000	106.7	0.000	0.000	BNA3(2)_335_337_L_0					
47 D	21.82	-3.3351E-22	184.0	109.1	184.0	109.1	V-C	2.6647E+04	-7.200	0.000
1.000	1.000	109.1	0.000	0.000	BNA3(2)_335_337_L_0					
48 D	22.29	-7.7237E-23	188.0	111.4	188.0	111.4	V-C	2.6647E+04	-7.400	0.000
1.000	1.000	111.4	0.000	0.000	BNA3(2)_335_337_L_0					
49 D	22.76	1.5232E-22	192.0	113.8	192.0	113.8	V-C	2.6647E+04	-7.600	0.000
1.000	1.000	113.8	0.000	0.000	BNA3(2)_335_337_L_0					
50 D	23.23	3.5651E-22	196.0	116.2	196.0	116.2	V-C	2.6647E+04	-7.800	0.000
1.000	1.000	116.2	0.000	0.000	BNA3(2)_335_337_L_0					
51 D	23.70	5.3671E-22	200.0	118.5	200.0	118.5	V-C	2.6647E+04	-8.000	0.000
1.000	1.000	118.5	0.000	0.000	BNA3(2)_335_337_L_0					
52 D	24.18	6.9427E-22	204.0	120.9	204.0	120.9	V-C	2.6647E+04	-8.200	0.000
1.000	1.000	120.9	0.000	0.000	BNA3(2)_335_337_L_0					
53 D	24.65	8.3057E-22	208.0	123.2	208.0	123.2	V-C	2.6647E+04	-8.400	0.000
1.000	1.000	123.2	0.000	0.000	BNA3(2)_335_337_L_0					
54 D	25.12	9.4694E-22	212.0	125.6	212.0	125.6	V-C	2.6647E+04	-8.600	0.000
1.000	1.000	125.6	0.000	0.000	BNA3(2)_335_337_L_0					
55 D	25.59	1.0447E-21	216.0	128.0	216.0	128.0	V-C	2.6647E+04	-8.800	0.000
1.000	1.000	128.0	0.000	0.000	BNA3(2)_335_337_L_0					
56 D	26.06	1.1252E-21	220.0	130.3	220.0	130.3	V-C	2.6647E+04	-9.000	0.000
1.000	1.000	130.3	0.000	0.000	BNA3(2)_335_337_L_0					
57 D	26.53	1.1896E-21	224.0	132.7	224.0	132.7	V-C	2.6647E+04	-9.200	0.000
1.000	1.000	132.7	0.000	0.000	BNA3(2)_335_337_L_0					
58 D	27.01	1.2392E-21	228.0	135.0	228.0	135.0	V-C	2.6647E+04	-9.400	0.000
1.000	1.000	135.0	0.000	0.000	BNA3(2)_335_337_L_0					
59 D	27.48	1.2752E-21	232.0	137.4	232.0	137.4	V-C	2.6647E+04	-9.600	0.000
1.000	1.000	137.4	0.000	0.000	BNA3(2)_335_337_L_0					
60 D	27.95	1.2987E-21	236.0	139.7	236.0	139.7	V-C	2.6647E+04	-9.800	0.000
1.000	1.000	139.7	0.000	0.000	BNA3(2)_335_337_L_0					
61 D	28.42	1.3109E-21	240.0	142.1	240.0	142.1	V-C	2.6647E+04	-10.000	0.000
1.000	1.000	142.1	0.000	0.000	BNA3(2)_335_337_L_0					
62 D	28.89	1.3126E-21	244.0	144.4	244.0	144.4	V-C	2.6647E+04	-10.200	0.000
1.000	1.000	144.4	0.000	0.000	BNA3(2)_335_337_L_0					
63 D	29.36	1.3050E-21	248.0	146.8	248.0	146.8	V-C	2.6647E+04	-10.400	0.000
1.000	1.000	146.8	0.000	0.000	BNA3(2)_335_337_L_0					
64 D	29.83	1.2890E-21	252.0	149.2	252.0	149.2	V-C	2.6647E+04	-10.600	0.000
1.000	1.000	149.2	0.000	0.000	BNA3(2)_335_337_L_0					
65 D	30.30	1.2654E-21	256.0	151.5	256.0	151.5	V-C	2.6647E+04	-10.800	0.000
1.000	1.000	151.5	0.000	0.000	BNA3(2)_335_337_L_0					
66 D	30.77	1.2350E-21	260.0	153.9	260.0	153.9	V-C	2.6647E+04	-11.000	0.000
1.000	1.000	153.9	0.000	0.000	BNA3(2)_335_337_L_0					
67 D	31.24	1.1988E-21	264.0	156.2	264.0	156.2	V-C	2.6647E+04	-11.200	0.000
1.000	1.000	156.2	0.000	0.000	BNA3(2)_335_337_L_0					
68 D	31.71	1.1573E-21	268.0	158.6	268.0	158.6	V-C	2.6647E+04	-11.400	0.000
1.000	1.000	158.6	0.000	0.000	BNA3(2)_335_337_L_0					
69 D	32.18	1.1112E-21	272.0	160.9	272.0	160.9	V-C	2.6647E+04	-11.600	0.000
1.000	1.000	160.9	0.000	0.000	BNA3(2)_335_337_L_0					
70 D	32.65	1.0612E-21	276.0	163.3	276.0	163.3	V-C	2.6647E+04	-11.800	0.000
1.000	1.000	163.3	0.000	0.000	BNA3(2)_335_337_L_0					
71 D	33.12	1.0078E-21	280.0	165.6	280.0	165.6	V-C	2.6647E+04	-12.000	0.000
1.000	1.000	165.6	0.000	0.000	BNA3(2)_335_337_L_0					
72 D	33.59	9.5155E-22	284.0	168.0	284.0	168.0	V-C	2.6647E+04	-12.200	0.000
1.000	1.000	168.0	0.000	0.000	BNA3(2)_335_337_L_0					
73 D	34.06	8.9289E-22	288.0	170.3	288.0	170.3	V-C	2.6647E+04	-12.400	0.000
1.000	1.000	170.3	0.000	0.000	BNA3(2)_335_337_L_0					
74 D	34.53	8.3225E-22	292.0	172.6	292.0	172.6	V-C	2.6647E+04	-12.600	0.000
1.000	1.000	172.6	0.000	0.000	BNA3(2)_335_337_L_0					
75 D	35.00	7.7002E-22	296.0	175.0	296.0	175.0	V-C	2.6647E+04	-12.800	0.000
1.000	1.000	175.0	0.000	0.000	BNA3(2)_335_337_L_0					
76 D	35.47	7.0654E-22	300.0	177.3	300.0	177.3	V-C	2.6647E+04	-13.000	0.000
1.000	1.000	177.3	0.000	0.000	BNA3(2)_335_337_L_0					
77 D	40.13	6.4212E-22	304.0	200.7	304.0	200.7	V-C	4.3358E+04	-13.200	0.000
1.000	1.000	200.7	0.000	0.000	BNA3(3)_336_338_L_0					
78 D	40.66	5.7701E-22	308.0	203.3	308.0	203.3	V-C	4.3358E+04	-13.400	0.000
1.000	1.000	203.3	0.000	0.000	BNA3(3)_336_338_L_0					
79 D	41.18	5.1144E-22	312.0	205.9	312.0	205.9	V-C	4.3358E+04	-13.600	0.000
1.000	1.000	205.9	0.000	0.000	BNA3(3)_336_338_L_0					

80 D	41.70	4.4559E-22	316.0	208.5	316.0	208.5	V-C	4.3358E+04	-13.80	0.000
1.000	1.000	208.5	0.000	0.000	BNA3(3)_336_338_L_0					
81 D	42.23	3.7959E-22	320.0	211.1	320.0	211.1	V-C	4.3358E+04	-14.00	0.000
1.000	1.000	211.1	0.000	0.000	BNA3(3)_336_338_L_0					
82 D	42.75	3.1354E-22	324.0	213.8	324.0	213.8	V-C	4.3358E+04	-14.20	0.000
1.000	1.000	213.8	0.000	0.000	BNA3(3)_336_338_L_0					
83 D	43.28	2.4752E-22	328.0	216.4	328.0	216.4	V-C	4.3358E+04	-14.40	0.000
1.000	1.000	216.4	0.000	0.000	BNA3(3)_336_338_L_0					
84 D	43.80	1.8157E-22	332.0	219.0	332.0	219.0	V-C	4.3358E+04	-14.60	0.000
1.000	1.000	219.0	0.000	0.000	BNA3(3)_336_338_L_0					
85 D	44.32	1.1571E-22	336.0	221.6	336.0	221.6	V-C	4.3358E+04	-14.80	0.000
1.000	1.000	221.6	0.000	0.000	BNA3(3)_336_338_L_0					
86 D	44.85	4.9947E-23	340.0	224.2	340.0	224.2	V-C	4.3358E+04	-15.00	0.000
1.000	1.000	224.2	0.000	0.000	BNA3(3)_336_338_L_0					
87 D	45.37	-1.5733E-23	344.0	226.8	344.0	226.8	V-C	4.3358E+04	-15.20	0.000
1.000	1.000	226.8	0.000	0.000	BNA3(3)_336_338_L_0					
88 D	45.89	-8.1346E-23	348.0	229.5	348.0	229.5	V-C	4.3358E+04	-15.40	0.000
1.000	1.000	229.5	0.000	0.000	BNA3(3)_336_338_L_0					
89 D	46.42	-1.4691E-22	352.0	232.1	352.0	232.1	V-C	4.3358E+04	-15.60	0.000
1.000	1.000	232.1	0.000	0.000	BNA3(3)_336_338_L_0					
90 D	46.94	-2.1246E-22	356.0	234.7	356.0	234.7	V-C	4.3358E+04	-15.80	0.000
1.000	1.000	234.7	0.000	0.000	BNA3(3)_336_338_L_0					
91 D	23.73	-2.7799E-22	360.0	237.3	360.0	237.3	V-C	4.3358E+04	-16.00	0.000
1.000	1.000	237.3	0.000	0.000	BNA3(3)_336_338_L_0					


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|                PARATIE PLUS 2014 NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Sept23, 2015*                |
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|                                                                                                                                            |
|                NewProject.BaseDesignSection_25.Nominal_60                                                                              |
|                Exe Time :29 June 2020    21:03:22                                                                              |
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New Project

STRESS RESULTS FOR GROUP NO. 3

WallElement_30 :
ELEMENT TYPE 2 NO.OF ELEMENTS. IN THIS GROUP 90
CURRENT TIME IS 1.0000

WALL2D ELEMENT

EL	TA	TB	MA	MB
1	3.17123E-17	-3.17123E-17	-1.70394E-28	6.34246E-18
2	9.35084E-17	-9.35084E-17	-6.34246E-18	2.50441E-17
3	3.75721E-16	-3.75721E-16	-2.50441E-17	1.00188E-16
4	4.34260E-16	-4.34260E-16	-1.00188E-16	1.87040E-16
5	4.70815E-17	-4.70815E-17	-1.87040E-16	1.96457E-16
6	1.02364E-16	-1.02364E-16	-1.96457E-16	2.16929E-16
7	1.56019E-16	-1.56019E-16	-2.16929E-16	2.48133E-16
8	2.08047E-16	-2.08047E-16	-2.48133E-16	2.89743E-16
9	2.58449E-16	-2.58449E-16	-2.89743E-16	3.41433E-16
10	3.07226E-16	-3.07226E-16	-3.41433E-16	4.02878E-16
11	3.54380E-16	-3.54380E-16	-4.02878E-16	4.73754E-16
12	3.99913E-16	-3.99913E-16	-4.73754E-16	5.53736E-16
13	4.43829E-16	-4.43829E-16	-5.53736E-16	6.42502E-16
14	4.86130E-16	-4.86130E-16	-6.42502E-16	7.39728E-16
15	5.26823E-16	-5.26823E-16	-7.39728E-16	8.45093E-16
16	5.65912E-16	-5.65912E-16	-8.45093E-16	9.58275E-16
17	-1.17295E-15	1.17295E-15	-9.58275E-16	7.23684E-16
18	-1.13705E-15	1.13705E-15	-7.23684E-16	4.96275E-16
19	-1.10272E-15	1.10272E-15	-4.96275E-16	2.75730E-16
20	-1.06997E-15	1.06997E-15	-2.75730E-16	6.17365E-17
21	-9.65958E-16	9.65958E-16	-6.17365E-17	1.31455E-16
22	-8.67088E-16	8.67088E-16	-1.31455E-16	3.04873E-16
23	-7.73305E-16	7.73305E-16	-3.04873E-16	4.59534E-16
24	-6.84549E-16	6.84549E-16	-4.59534E-16	5.96443E-16
25	-6.00752E-16	6.00752E-16	-5.96443E-16	7.16594E-16
26	-5.21841E-16	5.21841E-16	-7.16594E-16	8.20963E-16
27	-4.47732E-16	4.47732E-16	-8.20963E-16	9.10509E-16
28	-3.78333E-16	3.78333E-16	-9.10509E-16	9.86176E-16
29	-3.13548E-16	3.13548E-16	-9.86176E-16	-1.04889E-15
30	-2.53267E-16	2.53267E-16	-1.04889E-15	-1.09954E-15
31	-1.97377E-16	1.97377E-16	-1.09954E-15	-1.13901E-15
32	-1.45757E-16	1.45757E-16	-1.13901E-15	-1.16817E-15
33	-9.82773E-17	9.82773E-17	-1.16817E-15	-1.18782E-15
34	-5.48035E-17	5.48035E-17	-1.18782E-15	-1.19878E-15
35	-1.51952E-17	1.51952E-17	-1.19878E-15	-1.20182E-15
36	2.06936E-17	-2.06936E-17	1.20182E-15	-1.19768E-15
37	5.30127E-17	-5.30127E-17	1.19768E-15	-1.18708E-15
38	8.19160E-17	-8.19160E-17	1.18708E-15	-1.17070E-15
39	1.07560E-16	-1.07560E-16	1.17070E-15	-1.14918E-15
40	1.30105E-16	-1.30105E-16	1.14918E-15	-1.12316E-15
41	1.49710E-16	-1.49710E-16	1.12316E-15	-1.09322E-15
42	1.66538E-16	-1.66538E-16	1.09322E-15	-1.05991E-15
43	1.80750E-16	-1.80750E-16	1.05991E-15	-1.02376E-15
44	1.92507E-16	-1.92507E-16	1.02376E-15	-9.85262E-16
45	2.01969E-16	-2.01969E-16	9.85262E-16	-9.44868E-16
46	2.09293E-16	-2.09293E-16	9.44868E-16	-9.03010E-16
47	2.14637E-16	-2.14637E-16	9.03010E-16	-8.60082E-16
48	2.18152E-16	-2.18152E-16	8.60082E-16	-8.16452E-16
49	2.19988E-16	-2.19988E-16	8.16452E-16	-7.72454E-16
50	2.20291E-16	-2.20291E-16	7.72454E-16	-7.28396E-16
51	2.19201E-16	-2.19201E-16	7.28396E-16	-6.84556E-16
52	2.16855E-16	-2.16855E-16	6.84556E-16	-6.41185E-16
53	2.13385E-16	-2.13385E-16	6.41185E-16	-5.98508E-16
54	2.08916E-16	-2.08916E-16	5.98508E-16	-5.56725E-16
55	2.03571E-16	-2.03571E-16	5.56725E-16	-5.16011E-16
56	1.97465E-16	-1.97465E-16	5.16011E-16	-4.76518E-16
57	1.90706E-16	-1.90706E-16	4.76518E-16	-4.38376E-16
58	1.83400E-16	-1.83400E-16	4.38376E-16	-4.01696E-16
59	1.75644E-16	-1.75644E-16	4.01696E-16	-3.66568E-16
60	1.67530E-16	-1.67530E-16	3.66568E-16	-3.33062E-16
61	1.59146E-16	-1.59146E-16	3.33062E-16	-3.01232E-16
62	1.50570E-16	-1.50570E-16	3.01232E-16	-2.71119E-16
63	1.41879E-16	-1.41879E-16	2.71119E-16	-2.42743E-16
64	1.33143E-16	-1.33143E-16	2.42743E-16	-2.16115E-16
65	1.24424E-16	-1.24424E-16	2.16115E-16	-1.91230E-16
66	1.15782E-16	-1.15782E-16	1.91230E-16	-1.68073E-16
67	1.07271E-16	-1.07271E-16	1.68073E-16	-1.46619E-16
68	9.89402E-17	-9.89402E-17	1.46619E-16	-1.26831E-16
69	9.08329E-17	-9.08329E-17	1.26831E-16	-1.08665E-16
70	8.29895E-17	-8.29895E-17	1.08665E-16	-9.20666E-17

71 7.54455E-17-7.54455E-17 9.20666E-17-7.69776E-17
72 6.82326E-17-6.82326E-17 7.69776E-17-6.33310E-17
73 6.13787E-17-6.13787E-17 6.33310E-17-5.10553E-17
74 5.49081E-17-5.49081E-17 5.10553E-17-4.00737E-17
75 4.88421E-17-4.88421E-17 4.00737E-17-3.03053E-17
76 4.31985E-17-4.31985E-17 3.03053E-17-2.16656E-17
77 3.54274E-17-3.54274E-17 2.16656E-17-1.45801E-17
78 2.83284E-17-2.83284E-17 1.45801E-17-8.91439E-18
79 2.19169E-17-2.19169E-17 8.91439E-18-4.53102E-18
80 1.62050E-17-1.62050E-17 4.53102E-18-1.29003E-18
81 1.12024E-17-1.12024E-17 1.29003E-18 9.50454E-19
82 6.91664E-18-6.91664E-18-9.50454E-19 2.33378E-18
83 3.35328E-18-3.35328E-18-2.33378E-18 3.00444E-18
84 5.16369E-19-5.16369E-19-3.00444E-18 3.10771E-18
85-1.59124E-18 1.59124E-18-3.10771E-18 2.78946E-18
86-2.96766E-18 2.96766E-18-2.78946E-18 2.19593E-18
87-3.61172E-18 3.61172E-18-2.19593E-18 1.47359E-18
88-3.52276E-18 3.52276E-18-1.47359E-18 7.69034E-19
89-2.70045E-18 2.70045E-18-7.69034E-19 2.28944E-19
90-1.14466E-18 1.14466E-18-2.28944E-19-4.73317E-30

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|          PARATIE PLUS 2014 NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Sept23, 2015*          |
|                                                                                                                                            |
|                                                                 NewProject.BaseDesignSection_25.Nominal_60                               |
|                                                                 Exe Time :29 June 2020      21:03:22                               |
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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 . 4

Tieback_341 :
ELEMENT TYPE 6 NO.OF ELEMENTS. IN THIS GROUP 1
C U R R E N T T I M E I S 1.0000

POST-TENSION 2D-BOUNDARY ELEMENT

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-----+
      EL   FORCE      d0      EDISPL   pl. eps      K      -ve limit   +ve limit
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***** NO ONE ELEMENT ACTIVE AT CURRENT STEP *****

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|                PARATIE PLUS 2014 NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Sept23, 2015*                |
|                                                                                                                                            |
|                NewProject.BaseDesignSection_25.Nominal_60                                                                              |
|                Exe Time :29 June 2020      21:03:22                                                                              |
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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 . 5

Tieback_342 :
ELEMENT TYPE 6 NO.OF ELEMENTS. IN THIS GROUP 1
C U R R E N T T I M E I S 1.0000

POST-TENSION 2D-BOUNDARY ELEMENT

EL	FORCE	d0	EDISPL	pl. eps	K	-ve limit	+ve limit
----	-------	----	--------	---------	---	-----------	-----------

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

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ITER    0  RNORM = 0.000    RMNORM= 0.000
           RINORM=0.1183E+06 RIMNOR=0.7177E-28
           RENORM= 1059.    REMNOR=0.1773E-52 RATIO =0.9465E-01 TOLER =0.1000E-03 NOT CONVERGED
           RFMAX = 46.94    RMMAX =0.1202E-14
           RTSMAL=0.1000E-03 RMSMAL=0.1000E-19
           RDT =0.1183E+06 RDR =0.1000E-19
           RATIOT=0.9465E-01 RATIO= 0.000
           MAX UN= 11.72    IEQ= 39 NODE        20 DOF    1 Y-DISPL.F
           MIN UN=-.8380E-16 IEQ= 49 NODE        25 DOF    1 Y-DISPL.F
           NO. OF CONTACT CONSTRAINT VIOLATIONS            0

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ITER    2  RNORM = 0.000    RMNORM= 0.000
           RINORM=0.1183E+06 RIMNOR=0.7177E-28
           RENORM= 146.1    REMNOR=0.1872E-18 RATIO =0.3514E-01 TOLER =0.1000E-03 NOT CONVERGED
           RFMAX = 46.94    RMMAX =0.1202E-14
           RTSMAL=0.1000E-03 RMSMAL=0.1000E-19
           RDT =0.1183E+06 RDR =0.1000E-19
           RATIOT=0.3514E-01 RATIO= 0.000
           MAX UN= 4.193    IEQ= 49 NODE        25 DOF    1 Y-DISPL.F
           MIN UN=-.3490E-02 IEQ= 91 NODE        46 DOF    1 Y-DISPL.F
           NO. OF CONTACT CONSTRAINT VIOLATIONS            0

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ITER    3  RNORM = 0.000    RMNORM= 0.000
           RINORM=0.1183E+06 RIMNOR=0.7177E-28
           RENORM= 97.35    REMNOR=0.3687E-18 RATIO =0.2869E-01 TOLER =0.1000E-03 NOT CONVERGED
           RFMAX = 46.94    RMMAX =0.1202E-14
           RTSMAL=0.1000E-03 RMSMAL=0.1000E-19
           RDT =0.1183E+06 RDR =0.1000E-19
           RATIOT=0.2869E-01 RATIO= 0.000
           MAX UN= 5.644    IEQ= 55 NODE        28 DOF    1 Y-DISPL.F
           MIN UN=-.3450E-08 IEQ= 19 NODE        10 DOF    1 Y-DISPL.F
           NO. OF CONTACT CONSTRAINT VIOLATIONS            0

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ITER    4  RNORM = 0.000    RMNORM= 0.000
           RINORM=0.1183E+06 RIMNOR=0.7177E-28
           RENORM= 2.260    REMNOR=0.4858E-18 RATIO =0.4372E-02 TOLER =0.1000E-03 NOT CONVERGED
           RFMAX = 46.94    RMMAX =0.1202E-14
           RTSMAL=0.1000E-03 RMSMAL=0.1000E-19
           RDT =0.1183E+06 RDR =0.1000E-19
           RATIOT=0.4372E-02 RATIO= 0.000
           MAX UN= 1.345    IEQ= 69 NODE        35 DOF    1 Y-DISPL.F
           MIN UN=-.1395    IEQ= 97 NODE        49 DOF    1 Y-DISPL.F
           NO. OF CONTACT CONSTRAINT VIOLATIONS            0

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ITER    5  RNORM = 0.000    RMNORM= 0.000
           RINORM=0.1183E+06 RIMNOR=0.7177E-28
           RENORM=0.9672E-07 REMNOR=0.2911E-18 RATIO =0.9043E-06 TOLER =0.1000E-03    CONVERGED !
           RFMAX = 46.94    RMMAX =0.1202E-14
           RTSMAL=0.1000E-03 RMSMAL=0.1000E-19
           RDT =0.1183E+06 RDR =0.1000E-19
           RATIOT=0.9043E-06 RATIO= 0.000
           MAX UN=0.5811E-08 IEQ= 15 NODE        8 DOF    1 Y-DISPL.F
           MIN UN=-.3110E-03 IEQ= 111 NODE       56 DOF    1 Y-DISPL.F
           NO. OF CONTACT CONSTRAINT VIOLATIONS            0

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|                PARATIE PLUS 2014 NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Sept23, 2015*                |
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|                                                                                                                                            |
|                NewProject.BaseDesignSection_25.Nominal_60                                                                              |
|                Exe Time :29 June 2020      21:03:22                                                                              |
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New Project
SOLUTION REACHED USING 5 ITERATIONS ON 40

PRINT OUT FOR TIME STEP 2 (AT TIME 2.000)

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

	Y-DISPL.F (02)	X-ROT. F (04)	(
1	1.0605308E-02	-1.4894764E-03	
2	1.0307413E-02	-1.4894764E-03	
3	1.0009518E-02	-1.4894689E-03	
4	9.7116274E-03	-1.4894310E-03	
5	9.4137504E-03	-1.4893248E-03	
6	9.1159053E-03	-1.4890974E-03	
7	8.8181237E-03	-1.4886805E-03	
8	8.5204513E-03	-1.4879907E-03	
9	8.2229524E-03	-1.4869294E-03	
10	7.9257120E-03	-1.4853830E-03	
11	7.6288400E-03	-1.4832225E-03	
12	7.3324734E-03	-1.4803040E-03	
13	7.0367795E-03	-1.4764683E-03	
14	6.7419590E-03	-1.4715409E-03	
15	6.4482487E-03	-1.4653324E-03	
16	6.1559253E-03	-1.4576381E-03	
17	5.8653073E-03	-1.4482381E-03	
18	5.5767594E-03	-1.4368974E-03	
19	5.2906944E-03	-1.4233659E-03	
20	5.0075768E-03	-1.4073782E-03	
21	4.7279256E-03	-1.3886538E-03	
22	4.4523121E-03	-1.3669771E-03	
23	4.1813389E-03	-1.3422395E-03	
24	3.9156230E-03	-1.3144017E-03	
25	3.6557829E-03	-1.2834930E-03	
26	3.4024239E-03	-1.2496122E-03	
27	3.1561238E-03	-1.2129265E-03	
28	2.9174233E-03	-1.1736730E-03	
29	2.6868054E-03	-1.1321573E-03	
30	2.4646884E-03	-1.0887216E-03	
31	2.2514232E-03	-1.0437047E-03	
32	2.0472912E-03	-9.9743282E-04	
33	1.8525127E-03	-9.5022201E-04	
34	1.6672447E-03	-9.0237774E-04	
35	1.4915841E-03	-8.5419587E-04	
36	1.3255697E-03	-8.0596335E-04	
37	1.1691835E-03	-7.5795894E-04	
38	1.0223532E-03	-7.1044881E-04	
39	8.8495564E-04	-6.6367453E-04	
40	7.5682100E-04	-6.1784568E-04	
41	6.3774227E-04	-5.7314327E-04	
42	5.2747836E-04	-5.2972089E-04	
43	4.2576003E-04	-4.8770685E-04	
44	3.3229518E-04	-4.4720632E-04	
45	2.4677153E-04	-4.0830237E-04	
46	1.6886353E-04	-3.7105898E-04	
47	9.8234185E-05	-3.3552192E-04	
48	3.4538998E-05	-3.0172125E-04	
49	-2.2571219E-05	-2.6967413E-04	
50	-7.3447691E-05	-2.3938632E-04	
51	-1.1844236E-04	-2.1085163E-04	
52	-1.5790410E-04	-1.8405339E-04	
53	-1.9217771E-04	-1.5896510E-04	
54	-2.2160181E-04	-1.3555180E-04	
55	-2.4650716E-04	-1.1377127E-04	
56	-2.6721579E-04	-9.3574691E-05	
57	-2.8403905E-04	-7.4908306E-05	
58	-2.9727726E-04	-5.7714156E-05	
59	-3.0721879E-04	-4.1931118E-05	
60	-3.1413952E-04	-2.7495699E-05	
61	-3.1830251E-04	-1.4342420E-05	
62	-3.1995754E-04	-2.4045718E-06	
63	-3.1934107E-04	8.3838482E-06	
64	-3.1667607E-04	1.8091453E-05	
65	-3.1217212E-04	2.6784552E-05	
66	-3.0602548E-04	3.4529267E-05	
67	-2.9841930E-04	4.1390599E-05	
68	-2.8952389E-04	4.7432106E-05	
69	-2.7949699E-04	5.2715609E-05	
70	-2.6848419E-04	5.7300939E-05	
71	-2.5661932E-04	6.1245714E-05	
72	-2.4402493E-04	6.4605150E-05	
73	-2.3081278E-04	6.7431887E-05	
74	-2.1708436E-04	6.9775854E-05	

75	-2.0293148E-04	7.1684146E-05
76	-1.8843680E-04	7.3200927E-05
77	-1.7367447E-04	7.4367349E-05
78	-1.5871005E-04	7.5231007E-05
79	-1.4359870E-04	7.5845069E-05
80	-1.2838544E-04	7.6257895E-05
81	-1.1310606E-04	7.6512990E-05
82	-9.7788180E-05	7.6648985E-05
83	-8.2452158E-05	7.6699614E-05
84	-6.7112103E-05	7.6693710E-05
85	-5.1776848E-05	7.6655196E-05
86	-3.6450931E-05	7.6603090E-05
87	-2.1135577E-05	7.6551506E-05
88	-5.8296793E-06	7.6509655E-05
89	9.4692434E-06	7.6482176E-05
90	2.4764161E-05	7.6469247E-05
91	4.0058362E-05	7.6466149E-05

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|                PARATIE PLUS 2014 NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Sept23, 2015*                |
|                                                                                                                    |
|                NewProject.BaseDesignSection_25.Nominal_60                                                         |
|                Exe Time :29 June 2020      21:03:22                                                                |
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New Project

STRESS RESULTS FOR GROUP NO. 1

0_L :
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 91
CURRENT TIME IS 2.0000

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 LAYER	MAX-H-P	STATE	STIFFNESS	Z-LEVEL	PORE	E FAC-
1 D	0.000	-1.0605E-02	0.000	0.000	0.000	0.000	ACTIVE	0.000	2.000	0.000	
1.000	1.000	0.000	0.000	0.000	FRANA_334_8_L_0						
2 D	0.4880	-1.0307E-02	4.000	2.440	4.000	3.084	ACTIVE	0.000	1.800	0.000	
1.000	1.000	2.440	0.000	0.000	FRANA_334_8_L_0						
3 D	0.9760	-1.0010E-02	8.000	4.880	8.000	6.168	ACTIVE	0.000	1.600	0.000	
1.000	1.000	4.880	0.000	0.000	FRANA_334_8_L_0						
4 D	1.464	-9.7116E-03	12.00	7.320	12.00	9.252	ACTIVE	0.000	1.400	0.000	
1.000	1.000	7.320	0.000	0.000	FRANA_334_8_L_0						
5 D	1.952	-9.4138E-03	16.00	9.760	16.00	12.34	ACTIVE	0.000	1.200	0.000	
1.000	1.000	9.760	0.000	0.000	FRANA_334_8_L_0						
6 D	2.440	-9.1159E-03	20.00	12.20	20.00	15.42	ACTIVE	0.000	1.000	0.000	
1.000	1.000	12.20	0.000	0.000	FRANA_334_8_L_0						
7 D	2.928	-8.8181E-03	24.00	14.64	24.00	18.50	ACTIVE	0.000	0.8000	0.000	
1.000	1.000	14.64	0.000	0.000	FRANA_334_8_L_0						
8 D	3.416	-8.5205E-03	28.00	17.08	28.00	21.59	ACTIVE	0.000	0.6000	0.000	
1.000	1.000	17.08	0.000	0.000	FRANA_334_8_L_0						
9 D	3.904	-8.2230E-03	32.00	19.52	32.00	24.67	ACTIVE	0.000	0.4000	0.000	
1.000	1.000	19.52	0.000	0.000	FRANA_334_8_L_0						
10 D	4.392	-7.9257E-03	36.00	21.96	36.00	27.76	ACTIVE	0.000	0.2000	0.000	
1.000	1.000	21.96	0.000	0.000	FRANA_334_8_L_0						
11 D	4.880	-7.6288E-03	40.00	24.40	40.00	30.84	ACTIVE	0.000	-1.4901E-07	0.000	
1.000	1.000	24.40	0.000	0.000	FRANA_334_8_L_0						
12 D	5.368	-7.3325E-03	44.00	26.84	44.00	33.92	ACTIVE	0.000	-0.2000	0.000	
1.000	1.000	26.84	0.000	0.000	FRANA_334_8_L_0						
13 D	5.856	-7.0368E-03	48.00	29.28	48.00	37.01	ACTIVE	0.000	-0.4000	0.000	
1.000	1.000	29.28	0.000	0.000	FRANA_334_8_L_0						
14 D	6.344	-6.7420E-03	52.00	31.72	52.00	40.09	ACTIVE	0.000	-0.6000	0.000	
1.000	1.000	31.72	0.000	0.000	FRANA_334_8_L_0						
15 D	6.832	-6.4482E-03	56.00	34.16	56.00	43.17	ACTIVE	0.000	-0.8000	0.000	
1.000	1.000	34.16	0.000	0.000	FRANA_334_8_L_0						
16 D	7.321	-6.1559E-03	60.00	36.60	60.00	46.25	ACTIVE	0.000	-1.000	0.000	
1.000	1.000	36.60	0.000	0.000	FRANA_334_8_L_0						
17 D	7.809	-5.8653E-03	64.01	39.04	64.01	49.34	ACTIVE	0.000	-1.200	0.000	
1.000	1.000	39.04	0.000	0.000	FRANA_334_8_L_0						
18 D	8.297	-5.5768E-03	68.01	41.48	68.01	52.42	ACTIVE	0.000	-1.400	0.000	
1.000	1.000	41.48	0.000	0.000	FRANA_334_8_L_0						
19 D	8.785	-5.2907E-03	72.01	43.92	72.01	55.50	ACTIVE	0.000	-1.600	0.000	
1.000	1.000	43.92	0.000	0.000	FRANA_334_8_L_0						
20 D	9.273	-5.0076E-03	76.01	46.37	76.01	58.58	ACTIVE	0.000	-1.800	0.000	
1.000	1.000	46.37	0.000	0.000	FRANA_334_8_L_0						
21 D	6.033	-4.7279E-03	80.01	30.17	80.01	47.50	ACTIVE	0.000	-2.000	0.000	
1.000	1.000	30.17	0.000	0.000	BNA3(2)_335_337_L_0						
22 D	6.361	-4.4523E-03	84.01	31.80	84.01	49.88	ACTIVE	0.000	-2.200	0.000	
1.000	1.000	31.80	0.000	0.000	BNA3(2)_335_337_L_0						
23 D	6.688	-4.1813E-03	88.01	33.44	88.01	52.25	ACTIVE	0.000	-2.400	0.000	
1.000	1.000	33.44	0.000	0.000	BNA3(2)_335_337_L_0						
24 D	7.015	-3.9156E-03	92.02	35.08	92.02	54.62	ACTIVE	0.000	-2.600	0.000	
1.000	1.000	35.08	0.000	0.000	BNA3(2)_335_337_L_0						
25 D	7.343	-3.6558E-03	96.02	36.71	96.02	56.99	ACTIVE	0.000	-2.800	0.000	
1.000	1.000	36.71	0.000	0.000	BNA3(2)_335_337_L_0						
26 D	7.670	-3.4024E-03	100.0	38.35	100.0	59.36	ACTIVE	0.000	-3.000	0.000	
1.000	1.000	38.35	0.000	0.000	BNA3(2)_335_337_L_0						
27 D	7.997	-3.1561E-03	104.0	39.99	104.0	61.74	ACTIVE	0.000	-3.200	0.000	
1.000	1.000	39.99	0.000	0.000	BNA3(2)_335_337_L_0						
28 D	8.325	-2.9174E-03	108.0	41.62	108.0	64.11	ACTIVE	0.000	-3.400	0.000	
1.000	1.000	41.62	0.000	0.000	BNA3(2)_335_337_L_0						
29 D	8.652	-2.6868E-03	112.0	43.26	112.0	66.48	ACTIVE	0.000	-3.600	0.000	
1.000	1.000	43.26	0.000	0.000	BNA3(2)_335_337_L_0						
30 D	8.980	-2.4647E-03	116.0	44.90	116.0	68.85	ACTIVE	0.000	-3.800	0.000	
1.000	1.000	44.90	0.000	0.000	BNA3(2)_335_337_L_0						
31 D	9.307	-2.2514E-03	120.0	46.54	120.0	71.22	ACTIVE	0.000	-4.000	0.000	
1.000	1.000	46.54	0.000	0.000	BNA3(2)_335_337_L_0						
32 D	9.635	-2.0473E-03	124.0	48.17	124.0	73.59	ACTIVE	0.000	-4.200	0.000	
1.000	1.000	48.17	0.000	0.000	BNA3(2)_335_337_L_0						
33 D	9.962	-1.8525E-03	128.0	49.81	128.0	75.96	ACTIVE	0.000	-4.400	0.000	
1.000	1.000	49.81	0.000	0.000	BNA3(2)_335_337_L_0						

34 D	10.29	-1.6672E-03	132.0	51.45	132.0	78.33	ACTIVE	0.000	-4.600	0.000
1.000	1.000	51.45	0.000	0.000	BNA3(2)_335_337_L_0					
35 D	10.62	-1.4916E-03	136.0	53.09	136.0	80.69	ACTIVE	0.000	-4.800	0.000
1.000	1.000	53.09	0.000	0.000	BNA3(2)_335_337_L_0					
36 D	10.94	-1.3256E-03	140.1	54.72	140.1	83.06	ACTIVE	0.000	-5.000	0.000
1.000	1.000	54.72	0.000	0.000	BNA3(2)_335_337_L_0					
37 D	11.60	-1.1692E-03	144.1	58.01	144.1	85.43	UL-RL	2.3455E+04	-5.200	0.000
1.000	1.000	58.01	0.000	0.000	BNA3(2)_335_337_L_0					
38 D	12.76	-1.0224E-03	148.1	63.82	148.1	87.80	UL-RL	2.3455E+04	-5.400	0.000
1.000	1.000	63.82	0.000	0.000	BNA3(2)_335_337_L_0					
39 D	13.88	-8.8496E-04	152.1	69.41	152.1	90.16	UL-RL	2.3455E+04	-5.600	0.000
1.000	1.000	69.41	0.000	0.000	BNA3(2)_335_337_L_0					
40 D	14.96	-7.5682E-04	156.1	74.78	156.1	92.53	UL-RL	2.3455E+04	-5.800	0.000
1.000	1.000	74.78	0.000	0.000	BNA3(2)_335_337_L_0					
41 D	15.99	-6.3774E-04	160.1	79.93	160.1	94.89	UL-RL	2.3455E+04	-6.000	0.000
1.000	1.000	79.93	0.000	0.000	BNA3(2)_335_337_L_0					
42 D	16.98	-5.2748E-04	164.1	84.89	164.1	97.26	UL-RL	2.3455E+04	-6.200	0.000
1.000	1.000	84.89	0.000	0.000	BNA3(2)_335_337_L_0					
43 D	17.93	-4.2576E-04	168.1	89.64	168.1	99.62	UL-RL	2.3455E+04	-6.400	0.000
1.000	1.000	89.64	0.000	0.000	BNA3(2)_335_337_L_0					
44 D	18.84	-3.3230E-04	172.1	94.19	172.1	102.0	UL-RL	2.3455E+04	-6.600	0.000
1.000	1.000	94.19	0.000	0.000	BNA3(2)_335_337_L_0					
45 D	19.71	-2.4677E-04	176.1	98.56	176.1	104.3	UL-RL	2.3455E+04	-6.800	0.000
1.000	1.000	98.56	0.000	0.000	BNA3(2)_335_337_L_0					
46 D	20.55	-1.6886E-04	180.1	102.8	180.1	106.7	UL-RL	2.3455E+04	-7.000	0.000
1.000	1.000	102.8	0.000	0.000	BNA3(2)_335_337_L_0					
47 D	21.31	-9.8234E-05	184.1	106.6	184.1	109.4	UL-RL	2.3455E+04	-7.200	0.000
1.000	1.000	106.6	0.000	0.000	BNA3(2)_335_337_L_0					
48 D	22.01	-3.4539E-05	188.1	110.0	188.1	112.4	UL-RL	2.3455E+04	-7.400	0.000
1.000	1.000	110.0	0.000	0.000	BNA3(2)_335_337_L_0					
49 D	22.68	2.2571E-05	192.1	113.4	192.1	115.4	UL-RL	2.3455E+04	-7.600	0.000
1.000	1.000	113.4	0.000	0.000	BNA3(2)_335_337_L_0					
50 D	23.33	7.3448E-05	196.1	116.6	196.1	118.2	UL-RL	2.3455E+04	-7.800	0.000
1.000	1.000	116.6	0.000	0.000	BNA3(2)_335_337_L_0					
51 D	23.96	1.1844E-04	200.1	119.8	200.1	121.0	UL-RL	2.3455E+04	-8.000	0.000
1.000	1.000	119.8	0.000	0.000	BNA3(2)_335_337_L_0					
52 D	24.57	1.5790E-04	204.1	122.8	204.1	123.8	UL-RL	2.3455E+04	-8.200	0.000
1.000	1.000	122.8	0.000	0.000	BNA3(2)_335_337_L_0					
53 D	25.16	1.9218E-04	208.2	125.8	208.2	126.5	UL-RL	2.3455E+04	-8.400	0.000
1.000	1.000	125.8	0.000	0.000	BNA3(2)_335_337_L_0					
54 D	25.74	2.2160E-04	212.2	128.7	212.2	129.1	UL-RL	2.3455E+04	-8.600	0.000
1.000	1.000	128.7	0.000	0.000	BNA3(2)_335_337_L_0					
55 D	26.30	2.4651E-04	216.2	131.5	216.2	131.7	UL-RL	2.3455E+04	-8.800	0.000
1.000	1.000	131.5	0.000	0.000	BNA3(2)_335_337_L_0					
56 D	26.85	2.6722E-04	220.2	134.2	220.2	134.2	UL-RL	2.3455E+04	-9.000	0.000
1.000	1.000	134.2	0.000	0.000	BNA3(2)_335_337_L_0					
57 D	27.37	2.8404E-04	224.2	136.8	224.2	136.8	V-C	1.4659E+04	-9.200	0.000
1.000	1.000	136.8	0.000	0.000	BNA3(2)_335_337_L_0					
58 D	27.88	2.9728E-04	228.2	139.4	228.2	139.4	V-C	1.4659E+04	-9.400	0.000
1.000	1.000	139.4	0.000	0.000	BNA3(2)_335_337_L_0					
59 D	28.38	3.0722E-04	232.2	141.9	232.2	141.9	V-C	1.4659E+04	-9.600	0.000
1.000	1.000	141.9	0.000	0.000	BNA3(2)_335_337_L_0					
60 D	28.87	3.1414E-04	236.2	144.3	236.2	144.3	V-C	1.4659E+04	-9.800	0.000
1.000	1.000	144.3	0.000	0.000	BNA3(2)_335_337_L_0					
61 D	29.35	3.1830E-04	240.2	146.8	240.2	146.8	V-C	1.4659E+04	-10.000	0.000
1.000	1.000	146.8	0.000	0.000	BNA3(2)_335_337_L_0					
62 D	29.83	3.1996E-04	244.2	149.1	244.2	149.1	V-C	1.4659E+04	-10.200	0.000
1.000	1.000	149.1	0.000	0.000	BNA3(2)_335_337_L_0					
63 D	30.30	3.1934E-04	248.2	151.5	248.2	151.5	V-C	1.4659E+04	-10.400	0.000
1.000	1.000	151.5	0.000	0.000	BNA3(2)_335_337_L_0					
64 D	30.76	3.1668E-04	252.3	153.8	252.3	153.8	V-C	1.4659E+04	-10.600	0.000
1.000	1.000	153.8	0.000	0.000	BNA3(2)_335_337_L_0					
65 D	31.22	3.1217E-04	256.3	156.1	256.3	156.1	V-C	1.4659E+04	-10.800	0.000
1.000	1.000	156.1	0.000	0.000	BNA3(2)_335_337_L_0					
66 D	31.67	3.0603E-04	260.3	158.3	260.3	158.3	V-C	1.4659E+04	-11.000	0.000
1.000	1.000	158.3	0.000	0.000	BNA3(2)_335_337_L_0					
67 D	32.12	2.9842E-04	264.3	160.6	264.3	160.6	V-C	1.4659E+04	-11.200	0.000
1.000	1.000	160.6	0.000	0.000	BNA3(2)_335_337_L_0					
68 D	32.56	2.8952E-04	268.3	162.8	268.3	162.8	V-C	1.4659E+04	-11.400	0.000
1.000	1.000	162.8	0.000	0.000	BNA3(2)_335_337_L_0					
69 D	33.00	2.7950E-04	272.3	165.0	272.3	165.0	V-C	1.4659E+04	-11.600	0.000
1.000	1.000	165.0	0.000	0.000	BNA3(2)_335_337_L_0					
70 D	33.44	2.6848E-04	276.3	167.2	276.3	167.2	V-C	1.4659E+04	-11.800	0.000
1.000	1.000	167.2	0.000	0.000	BNA3(2)_335_337_L_0					
71 D	33.87	2.5662E-04	280.3	169.4	280.3	169.4	V-C	1.4659E+04	-12.000	0.000
1.000	1.000	169.4	0.000	0.000	BNA3(2)_335_337_L_0					
72 D	34.31	2.4402E-04	284.4	171.5	284.4	171.5	V-C	1.4659E+04	-12.200	0.000
1.000	1.000	171.5	0.000	0.000	BNA3(2)_335_337_L_0					
73 D	34.74	2.3081E-04	288.4	173.7	288.4	173.7	V-C	1.4659E+04	-12.400	0.000
1.000	1.000	173.7	0.000	0.000	BNA3(2)_335_337_L_0					
74 D	35.17	2.1708E-04	292.4	175.8	292.4	175.8	V-C	1.4659E+04	-12.600	0.000
1.000	1.000	175.8	0.000	0.000	BNA3(2)_335_337_L_0					
75 D	35.59	2.0293E-04	296.4	178.0	296.4	178.0	V-C	1.4659E+04	-12.800	0.000
1.000	1.000	178.0	0.000	0.000	BNA3(2)_335_337_L_0					
76 D	36.02	1.8844E-04	300.4	180.1	300.4	180.1	V-C	1.4659E+04	-13.000	0.000
1.000	1.000	180.1	0.000	0.000	BNA3(2)_335_337_L_0					
77 D	40.84	1.7367E-04	304.4	204.2	304.4	204.2	V-C	2.0271E+04	-13.200	0.000
1.000	1.000	204.2	0.000	0.000	BNA3(3)_336_338_L_0					
78 D	41.30	1.5871E-04	308.4	206.5	308.4	206.5	V-C	2.0271E+04	-13.400	0.000
1.000	1.000	206.5	0.000	0.000	BNA3(3)_336_338_L_0					
79 D	41.76	1.4360E-04	312.4	208.8	312.4	208.8	V-C	2.0271E+04	-13.600	0.000
1.000	1.000	208.8	0.000	0.000	BNA3(3)_336_338_L_0					

80 D	42.23	1.2839E-04	316.5	211.1	316.5	211.1	V-C	2.0271E+04	-13.80	0.000
1.000	1.000	211.1	0.000	0.000	BNA3(3)_336_338_L_0					
81 D	42.69	1.1311E-04	320.5	213.4	320.5	213.4	V-C	2.0271E+04	-14.00	0.000
1.000	1.000	213.4	0.000	0.000	BNA3(3)_336_338_L_0					
82 D	43.15	9.7788E-05	324.5	215.7	324.5	215.7	V-C	2.0271E+04	-14.20	0.000
1.000	1.000	215.7	0.000	0.000	BNA3(3)_336_338_L_0					
83 D	43.61	8.2452E-05	328.5	218.1	328.5	218.1	V-C	2.0271E+04	-14.40	0.000
1.000	1.000	218.1	0.000	0.000	BNA3(3)_336_338_L_0					
84 D	44.07	6.7112E-05	332.5	220.4	332.5	220.4	V-C	2.0271E+04	-14.60	0.000
1.000	1.000	220.4	0.000	0.000	BNA3(3)_336_338_L_0					
85 D	44.53	5.1777E-05	336.5	222.7	336.5	222.7	V-C	2.0271E+04	-14.80	0.000
1.000	1.000	222.7	0.000	0.000	BNA3(3)_336_338_L_0					
86 D	44.99	3.6451E-05	340.5	225.0	340.5	225.0	V-C	2.0271E+04	-15.00	0.000
1.000	1.000	225.0	0.000	0.000	BNA3(3)_336_338_L_0					
87 D	45.46	2.1136E-05	344.6	227.3	344.6	227.3	V-C	2.0271E+04	-15.20	0.000
1.000	1.000	227.3	0.000	0.000	BNA3(3)_336_338_L_0					
88 D	45.92	5.8297E-06	348.6	229.6	348.6	229.6	V-C	2.0271E+04	-15.40	0.000
1.000	1.000	229.6	0.000	0.000	BNA3(3)_336_338_L_0					
89 D	46.35	-9.4692E-06	352.6	231.8	352.6	232.1	UL-RL	3.2434E+04	-15.60	0.000
1.000	1.000	231.8	0.000	0.000	BNA3(3)_336_338_L_0					
90 D	46.78	-2.4764E-05	356.6	233.9	356.6	234.7	UL-RL	3.2434E+04	-15.80	0.000
1.000	1.000	233.9	0.000	0.000	BNA3(3)_336_338_L_0					
91 D	23.60	-4.0058E-05	360.6	236.0	360.6	237.3	UL-RL	3.2434E+04	-16.00	0.000
1.000	1.000	236.0	0.000	0.000	BNA3(3)_336_338_L_0					

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|                PARATIE PLUS 2014 NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Sept23, 2015*                |
|                                                                                                                    |
|                NewProject.BaseDesignSection_25.Nominal_60                                                         |
|                Exe Time :29 June 2020      21:03:22                                                                |
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New Project

STRESS RESULTS FOR GROUP NO. 2

O_R :
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 91
CURRENT TIME IS 2.0000

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 LAYER	MAX-H-P	STATE	STIFFNESS	Z-LEVEL	PORE	E FAC-
1	0.000	--	--	--	--	--	REMOVED	--	2.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
2	0.000	--	--	--	--	--	REMOVED	--	1.800	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
3	0.000	--	--	--	--	--	REMOVED	--	1.600	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
4	0.000	--	--	--	--	--	REMOVED	--	1.400	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
5	0.000	--	--	--	--	--	REMOVED	--	1.200	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
6	0.000	--	--	--	--	--	REMOVED	--	1.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
7	0.000	--	--	--	--	--	REMOVED	--	0.8000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
8	0.000	--	--	--	--	--	REMOVED	--	0.6000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
9	0.000	--	--	--	--	--	REMOVED	--	0.4000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
10	0.000	--	--	--	--	--	REMOVED	--	0.2000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
11	0.000	--	--	--	--	--	REMOVED	--	-1.4901E-07	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
12	0.000	--	--	--	--	--	REMOVED	--	-0.2000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
13	0.000	--	--	--	--	--	REMOVED	--	-0.4000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
14	0.000	--	--	--	--	--	REMOVED	--	-0.6000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
15	0.000	--	--	--	--	--	REMOVED	--	-0.8000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
16	0.000	--	--	--	--	--	REMOVED	--	-1.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
17	0.000	--	--	--	--	--	REMOVED	--	-1.200	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
18	0.000	--	--	--	--	--	REMOVED	--	-1.400	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
19	0.000	--	--	--	--	--	REMOVED	--	-1.600	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
20	0.000	--	--	--	--	--	REMOVED	--	-1.800	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
21 D	1.428	4.7279E-03	0.000	7.141	80.00	47.50	PASSIVE	0.000	-2.000	0.000	
1.000	1.000	7.141	0.000	0.000	BNA3(2)_335_337_L_0						
22 D	3.978	4.4523E-03	4.000	19.89	84.00	49.88	PASSIVE	0.000	-2.200	0.000	
1.000	1.000	19.89	0.000	0.000	BNA3(2)_335_337_L_0						
23 D	6.527	4.1813E-03	8.000	32.64	88.00	52.25	PASSIVE	0.000	-2.400	0.000	
1.000	1.000	32.64	0.000	0.000	BNA3(2)_335_337_L_0						
24 D	9.077	3.9156E-03	12.00	45.38	92.00	54.62	PASSIVE	0.000	-2.600	0.000	
1.000	1.000	45.38	0.000	0.000	BNA3(2)_335_337_L_0						
25 D	11.63	3.6558E-03	16.00	58.13	96.00	58.13	PASSIVE	0.000	-2.800	0.000	
1.000	1.000	58.13	0.000	0.000	BNA3(2)_335_337_L_0						
26 D	14.18	3.4024E-03	20.00	70.88	100.0	70.88	PASSIVE	0.000	-3.000	0.000	
1.000	1.000	70.88	0.000	0.000	BNA3(2)_335_337_L_0						
27 D	16.73	3.1561E-03	24.00	83.63	104.0	83.63	PASSIVE	0.000	-3.200	0.000	
1.000	1.000	83.63	0.000	0.000	BNA3(2)_335_337_L_0						
28 D	19.28	2.9174E-03	28.00	96.38	108.0	96.38	PASSIVE	0.000	-3.400	0.000	
1.000	1.000	96.38	0.000	0.000	BNA3(2)_335_337_L_0						
29 D	19.74	2.6868E-03	32.00	98.70	112.0	98.70	V-C	1.1991E+04	-3.600	0.000	
1.000	1.000	98.70	0.000	0.000	BNA3(2)_335_337_L_0						
30 D	19.68	2.4647E-03	36.00	98.40	116.0	98.40	V-C	1.1991E+04	-3.800	0.000	
1.000	1.000	98.40	0.000	0.000	BNA3(2)_335_337_L_0						
31 D	19.64	2.2514E-03	40.00	98.22	120.0	98.22	V-C	1.1991E+04	-4.000	0.000	
1.000	1.000	98.22	0.000	0.000	BNA3(2)_335_337_L_0						
32 D	19.63	2.0473E-03	44.00	98.14	124.0	98.14	V-C	1.1991E+04	-4.200	0.000	
1.000	1.000	98.14	0.000	0.000	BNA3(2)_335_337_L_0						
33 D	19.63	1.8525E-03	48.00	98.17	128.0	98.17	V-C	1.1991E+04	-4.400	0.000	
1.000	1.000	98.17	0.000	0.000	BNA3(2)_335_337_L_0						

34 D	19.66	1.6672E-03	52.00	98.32	132.0	98.32	V-C	1.1991E+04	-4.600	0.000
1.000	1.000	98.32	0.000	0.000	BNA3(2)_335_337_L_0					
35 D	19.72	1.4916E-03	56.00	98.58	136.0	98.58	V-C	1.1991E+04	-4.800	0.000
1.000	1.000	98.58	0.000	0.000	BNA3(2)_335_337_L_0					
36 D	19.79	1.3256E-03	60.00	98.96	140.0	98.96	V-C	1.1991E+04	-5.000	0.000
1.000	1.000	98.96	0.000	0.000	BNA3(2)_335_337_L_0					
37 D	19.89	1.1692E-03	64.00	99.45	144.0	99.45	V-C	1.1991E+04	-5.200	0.000
1.000	1.000	99.45	0.000	0.000	BNA3(2)_335_337_L_0					
38 D	20.01	1.0224E-03	68.00	100.1	148.0	100.1	V-C	1.1991E+04	-5.400	0.000
1.000	1.000	100.1	0.000	0.000	BNA3(2)_335_337_L_0					
39 D	20.15	8.8496E-04	72.00	100.8	152.0	100.8	V-C	1.1991E+04	-5.600	0.000
1.000	1.000	100.8	0.000	0.000	BNA3(2)_335_337_L_0					
40 D	20.32	7.5682E-04	76.00	101.6	156.0	101.6	V-C	1.1991E+04	-5.800	0.000
1.000	1.000	101.6	0.000	0.000	BNA3(2)_335_337_L_0					
41 D	20.51	6.3774E-04	80.00	102.5	160.0	102.5	V-C	1.1991E+04	-6.000	0.000
1.000	1.000	102.5	0.000	0.000	BNA3(2)_335_337_L_0					
42 D	20.72	5.2748E-04	84.00	103.6	164.0	103.6	V-C	1.1991E+04	-6.200	0.000
1.000	1.000	103.6	0.000	0.000	BNA3(2)_335_337_L_0					
43 D	20.95	4.2576E-04	88.00	104.7	168.0	104.7	V-C	1.1991E+04	-6.400	0.000
1.000	1.000	104.7	0.000	0.000	BNA3(2)_335_337_L_0					
44 D	21.19	3.3230E-04	92.00	106.0	172.0	106.0	V-C	1.1991E+04	-6.600	0.000
1.000	1.000	106.0	0.000	0.000	BNA3(2)_335_337_L_0					
45 D	21.46	2.4677E-04	96.00	107.3	176.0	107.3	V-C	1.1991E+04	-6.800	0.000
1.000	1.000	107.3	0.000	0.000	BNA3(2)_335_337_L_0					
46 D	21.75	1.6886E-04	100.0	108.7	180.0	108.7	V-C	1.1991E+04	-7.000	0.000
1.000	1.000	108.7	0.000	0.000	BNA3(2)_335_337_L_0					
47 D	22.05	9.8234E-05	104.0	110.3	184.0	110.3	V-C	1.1991E+04	-7.200	0.000
1.000	1.000	110.3	0.000	0.000	BNA3(2)_335_337_L_0					
48 D	22.37	3.4539E-05	108.0	111.9	188.0	111.9	V-C	1.1991E+04	-7.400	0.000
1.000	1.000	111.9	0.000	0.000	BNA3(2)_335_337_L_0					
49 D	22.67	-2.2571E-05	112.0	113.4	192.0	113.8	UL-RL	1.9186E+04	-7.600	0.000
1.000	1.000	113.4	0.000	0.000	BNA3(2)_335_337_L_0					
50 D	22.95	-7.3448E-05	116.0	114.7	196.0	116.2	UL-RL	1.9186E+04	-7.800	0.000
1.000	1.000	114.7	0.000	0.000	BNA3(2)_335_337_L_0					
51 D	23.25	-1.1844E-04	120.0	116.2	200.0	118.5	UL-RL	1.9186E+04	-8.000	0.000
1.000	1.000	116.2	0.000	0.000	BNA3(2)_335_337_L_0					
52 D	23.57	-1.5790E-04	124.0	117.8	204.0	120.9	UL-RL	1.9186E+04	-8.200	0.000
1.000	1.000	117.8	0.000	0.000	BNA3(2)_335_337_L_0					
53 D	23.91	-1.9218E-04	128.0	119.6	208.0	123.2	UL-RL	1.9186E+04	-8.400	0.000
1.000	1.000	119.6	0.000	0.000	BNA3(2)_335_337_L_0					
54 D	24.27	-2.2160E-04	132.0	121.3	212.0	125.6	UL-RL	1.9186E+04	-8.600	0.000
1.000	1.000	121.3	0.000	0.000	BNA3(2)_335_337_L_0					
55 D	24.65	-2.4651E-04	136.0	123.2	216.0	128.0	UL-RL	1.9186E+04	-8.800	0.000
1.000	1.000	123.2	0.000	0.000	BNA3(2)_335_337_L_0					
56 D	25.04	-2.6722E-04	140.0	125.2	220.0	130.3	UL-RL	1.9186E+04	-9.000	0.000
1.000	1.000	125.2	0.000	0.000	BNA3(2)_335_337_L_0					
57 D	25.44	-2.8404E-04	144.0	127.2	224.0	132.7	UL-RL	1.9186E+04	-9.200	0.000
1.000	1.000	127.2	0.000	0.000	BNA3(2)_335_337_L_0					
58 D	25.86	-2.9728E-04	148.0	129.3	228.0	135.0	UL-RL	1.9186E+04	-9.400	0.000
1.000	1.000	129.3	0.000	0.000	BNA3(2)_335_337_L_0					
59 D	26.30	-3.0722E-04	152.0	131.5	232.0	137.4	UL-RL	1.9186E+04	-9.600	0.000
1.000	1.000	131.5	0.000	0.000	BNA3(2)_335_337_L_0					
60 D	26.74	-3.1414E-04	156.0	133.7	236.0	139.7	UL-RL	1.9186E+04	-9.800	0.000
1.000	1.000	133.7	0.000	0.000	BNA3(2)_335_337_L_0					
61 D	27.20	-3.1830E-04	160.0	136.0	240.0	142.1	UL-RL	1.9186E+04	-10.000	0.000
1.000	1.000	136.0	0.000	0.000	BNA3(2)_335_337_L_0					
62 D	27.66	-3.1996E-04	164.0	138.3	244.0	144.4	UL-RL	1.9186E+04	-10.200	0.000
1.000	1.000	138.3	0.000	0.000	BNA3(2)_335_337_L_0					
63 D	28.13	-3.1934E-04	168.0	140.7	248.0	146.8	UL-RL	1.9186E+04	-10.400	0.000
1.000	1.000	140.7	0.000	0.000	BNA3(2)_335_337_L_0					
64 D	28.62	-3.1668E-04	172.0	143.1	252.0	149.2	UL-RL	1.9186E+04	-10.600	0.000
1.000	1.000	143.1	0.000	0.000	BNA3(2)_335_337_L_0					
65 D	29.10	-3.1217E-04	176.0	145.5	256.0	151.5	UL-RL	1.9186E+04	-10.800	0.000
1.000	1.000	145.5	0.000	0.000	BNA3(2)_335_337_L_0					
66 D	29.60	-3.0603E-04	180.0	148.0	260.0	153.9	UL-RL	1.9186E+04	-11.000	0.000
1.000	1.000	148.0	0.000	0.000	BNA3(2)_335_337_L_0					
67 D	30.10	-2.9842E-04	184.0	150.5	264.0	156.2	UL-RL	1.9186E+04	-11.200	0.000
1.000	1.000	150.5	0.000	0.000	BNA3(2)_335_337_L_0					
68 D	30.60	-2.8952E-04	188.0	153.0	268.0	158.6	UL-RL	1.9186E+04	-11.400	0.000
1.000	1.000	153.0	0.000	0.000	BNA3(2)_335_337_L_0					
69 D	31.11	-2.7950E-04	192.0	155.5	272.0	160.9	UL-RL	1.9186E+04	-11.600	0.000
1.000	1.000	155.5	0.000	0.000	BNA3(2)_335_337_L_0					
70 D	31.62	-2.6848E-04	196.0	158.1	276.0	163.3	UL-RL	1.9186E+04	-11.800	0.000
1.000	1.000	158.1	0.000	0.000	BNA3(2)_335_337_L_0					
71 D	32.14	-2.5662E-04	200.0	160.7	280.0	165.6	UL-RL	1.9186E+04	-12.000	0.000
1.000	1.000	160.7	0.000	0.000	BNA3(2)_335_337_L_0					
72 D	32.65	-2.4402E-04	204.0	163.3	284.0	168.0	UL-RL	1.9186E+04	-12.200	0.000
1.000	1.000	163.3	0.000	0.000	BNA3(2)_335_337_L_0					
73 D	33.17	-2.3081E-04	208.0	165.9	288.0	170.3	UL-RL	1.9186E+04	-12.400	0.000
1.000	1.000	165.9	0.000	0.000	BNA3(2)_335_337_L_0					
74 D	33.70	-2.1708E-04	212.0	168.5	292.0	172.6	UL-RL	1.9186E+04	-12.600	0.000
1.000	1.000	168.5	0.000	0.000	BNA3(2)_335_337_L_0					
75 D	34.22	-2.0293E-04	216.0	171.1	296.0	175.0	UL-RL	1.9186E+04	-12.800	0.000
1.000	1.000	171.1	0.000	0.000	BNA3(2)_335_337_L_0					
76 D	34.75	-1.8844E-04	220.0	173.7	300.0	177.3	UL-RL	1.9186E+04	-13.000	0.000
1.000	1.000	173.7	0.000	0.000	BNA3(2)_335_337_L_0					
77 D	39.05	-1.7367E-04	224.0	195.2	304.0	200.7	UL-RL	3.1218E+04	-13.200	0.000
1.000	1.000	195.2	0.000	0.000	BNA3(3)_336_338_L_0					
78 D	39.67	-1.5871E-04	228.0	198.3	308.0	203.3	UL-RL	3.1218E+04	-13.400	0.000
1.000	1.000	198.3	0.000	0.000	BNA3(3)_336_338_L_0					
79 D	40.28	-1.4360E-04	232.0	201.4	312.0	205.9	UL-RL	3.1218E+04	-13.600	0.000
1.000	1.000	201.4	0.000	0.000	BNA3(3)_336_338_L_0					

80 D	40.90	-1.2839E-04	236.0	204.5	316.0	208.5	UL-RL	3.1218E+04	-13.80	0.000
1.000	1.000	204.5	0.000	0.000	BNA3(3)_336_338_L_0					
81 D	41.52	-1.1311E-04	240.0	207.6	320.0	211.1	UL-RL	3.1218E+04	-14.00	0.000
1.000	1.000	207.6	0.000	0.000	BNA3(3)_336_338_L_0					
82 D	42.14	-9.7788E-05	244.0	210.7	324.0	213.8	UL-RL	3.1218E+04	-14.20	0.000
1.000	1.000	210.7	0.000	0.000	BNA3(3)_336_338_L_0					
83 D	42.76	-8.2452E-05	248.0	213.8	328.0	216.4	UL-RL	3.1218E+04	-14.40	0.000
1.000	1.000	213.8	0.000	0.000	BNA3(3)_336_338_L_0					
84 D	43.38	-6.7112E-05	252.0	216.9	332.0	219.0	UL-RL	3.1218E+04	-14.60	0.000
1.000	1.000	216.9	0.000	0.000	BNA3(3)_336_338_L_0					
85 D	44.00	-5.1777E-05	256.0	220.0	336.0	221.6	UL-RL	3.1218E+04	-14.80	0.000
1.000	1.000	220.0	0.000	0.000	BNA3(3)_336_338_L_0					
86 D	44.62	-3.6451E-05	260.0	223.1	340.0	224.2	UL-RL	3.1218E+04	-15.00	0.000
1.000	1.000	223.1	0.000	0.000	BNA3(3)_336_338_L_0					
87 D	45.24	-2.1136E-05	264.0	226.2	344.0	226.8	UL-RL	3.1218E+04	-15.20	0.000
1.000	1.000	226.2	0.000	0.000	BNA3(3)_336_338_L_0					
88 D	45.84	-5.8297E-06	268.0	229.2	348.0	229.6	UL-RL	3.1218E+04	-15.40	0.000
1.000	1.000	229.2	0.000	0.000	BNA3(3)_336_338_L_0					
89 D	46.42	9.4692E-06	272.0	232.1	352.0	232.5	UL-RL	3.1218E+04	-15.60	0.000
1.000	1.000	232.1	0.000	0.000	BNA3(3)_336_338_L_0					
90 D	47.01	2.4764E-05	276.0	235.1	356.0	235.4	UL-RL	3.1218E+04	-15.80	0.000
1.000	1.000	235.1	0.000	0.000	BNA3(3)_336_338_L_0					
91 D	23.80	4.0058E-05	280.0	238.0	360.0	238.2	UL-RL	3.1218E+04	-16.00	0.000
1.000	1.000	238.0	0.000	0.000	BNA3(3)_336_338_L_0					

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|                PARATIE PLUS 2014 NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Sept23, 2015*                |
|                                                                                                                                            |
|                                                                                                                                            |
|                NewProject.BaseDesignSection_25.Nominal_60                                                                              |
|                Exe Time :29 June 2020    21:03:22                                                                                          |
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New Project

STRESS RESULTS FOR GROUP NO. 3

WallElement_30 :
ELEMENT TYPE 2 NO.OF ELEMENTS. IN THIS GROUP 90
CURRENT TIME IS 2.0000

WALL2D ELEMENT

EL	TA	TB	MA	MB
1	-7.43512E-10	7.43512E-10	-7.79750E-11	-2.61451E-10
2	0.48800	-0.48800	1.36396E-10	9.76000E-02
3	1.4640	-1.4640	-9.76000E-02	0.39040
4	2.9280	-2.9280	-0.39040	0.97600
5	4.8800	-4.8800	-0.97600	1.9520
6	7.3200	-7.3200	-1.9520	3.4160
7	10.248	-10.248	-3.4160	5.4656
8	13.664	-13.664	-5.4656	8.1984
9	17.568	-17.568	-8.1984	11.712
10	21.960	-21.960	-11.712	16.104
11	26.840	-26.840	-16.104	21.472
12	32.209	-32.209	-21.472	27.914
13	38.065	-38.065	-27.914	35.527
14	44.409	-44.409	-35.527	44.409
15	51.242	-51.242	-44.409	54.657
16	58.562	-58.562	-54.657	66.370
17	66.371	-66.371	-66.370	79.644
18	74.668	-74.668	-79.644	94.577
19	83.452	-83.452	-94.577	111.27
20	92.726	-92.726	-111.27	129.81
21	97.331	-97.331	-129.81	149.28
22	99.713	-99.713	-149.28	169.22
23	99.874	-99.874	-169.22	189.20
24	97.812	-97.812	-189.20	208.76
25	93.528	-93.528	-208.76	227.46
26	87.022	-87.022	-227.46	244.87
27	78.293	-78.293	-244.87	260.53
28	67.343	-67.343	-260.53	274.00
29	56.256	-56.256	-274.00	285.25
30	45.555	-45.555	-285.25	294.36
31	35.219	-35.219	-294.36	301.40
32	25.226	-25.226	-301.40	306.45
33	15.554	-15.554	-306.45	309.56
34	6.1798	-6.1798	-309.56	310.79
35	-2.9190	2.9190	-310.79	310.21
36	-11.766	11.766	-310.21	307.86
37	-20.054	20.054	-307.86	303.85
38	-27.302	27.302	-303.85	298.39
39	-33.576	33.576	-298.39	291.67
40	-38.941	38.941	-291.67	283.88
41	-43.462	43.462	-283.88	275.19
42	-47.201	47.201	-275.19	265.75
43	-50.220	50.220	-265.75	255.71
44	-52.575	52.575	-255.71	245.19
45	-54.325	54.325	-245.19	234.33
46	-55.522	55.522	-234.33	223.22
47	-56.260	56.260	-223.22	211.97
48	-56.626	56.626	-211.97	200.64
49	-56.623	56.623	-200.64	189.32
50	-56.246	56.246	-189.32	178.07
51	-55.539	55.539	-178.07	166.96
52	-54.541	54.541	-166.96	156.05
53	-53.288	53.288	-156.05	145.40
54	-51.817	51.817	-145.40	135.03
55	-50.158	50.158	-135.03	125.00
56	-48.350	48.350	-125.00	115.33
57	-46.427	46.427	-115.33	106.05
58	-44.415	44.415	-106.05	97.163
59	-42.335	42.335	-97.163	88.696
60	-40.209	40.209	-88.696	80.655
61	-38.054	38.054	-80.655	73.044
62	-35.888	35.888	-73.044	65.866
63	-33.727	33.727	-65.866	59.121
64	-31.583	31.583	-59.121	52.804
65	-29.470	29.470	-52.804	46.910
66	-27.399	27.399	-46.910	41.431
67	-25.379	25.379	-41.431	36.355
68	-23.419	23.419	-36.355	31.671
69	-21.527	21.527	-31.671	27.366
70	-19.709	19.709	-27.366	23.424

71	-17.972	17.972	-23.424	19.829
72	-16.321	16.321	-19.829	16.565
73	-14.758	14.758	-16.565	13.614
74	-13.289	13.289	-13.614	10.956
75	-11.915	11.915	-10.956	8.5729
76	-10.640	10.640	-8.5729	6.4450
77	-8.8511	8.8511	-6.4450	4.6748
78	-7.2168	7.2168	-4.6748	3.2314
79	-5.7381	5.7381	-3.2314	2.0838
80	-4.4160	4.4160	-2.0838	1.2006
81	-3.2512	3.2512	-1.2006	0.55036
82	-2.2442	2.2442	-0.55036	0.10151
83	-1.3952	1.3952	-0.10151	-0.17753
84	-0.70408	0.70408	0.17753	-0.31835
85	-0.17089	0.17089	0.31835	-0.35252
86	0.20447	-0.20447	0.35252	-0.31163
87	0.42212	-0.42212	0.31163	-0.22721
88	0.50308	-0.50308	0.22721	-0.12659
89	0.43355	-0.43355	0.12659	-3.98807E-02
90	0.19939	-0.19939	3.98807E-02	-4.97380E-13

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|          PARATIE PLUS 2014 NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Sept23, 2015*          |
|                                                                                                    |
|                               NewProject.BaseDesignSection_25.Nominal_60                            |
|                               Exe Time :29 June 2020      21:03:22                                |
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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 . 4

Tieback_341 :
ELEMENT TYPE 6 NO.OF ELEMENTS. IN THIS GROUP 1
C U R R E N T T I M E I S 2.0000

POST-TENSION 2D-BOUNDARY ELEMENT

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-----+
      EL   FORCE      d0      EDISPL   pl. eps      K      -ve limit   +ve limit
-----+
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***** NO ONE ELEMENT ACTIVE AT CURRENT STEP *****

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|          PARATIE PLUS 2014 NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Sept23, 2015*          |
|                                                                                                    |
|                               NewProject.BaseDesignSection_25.Nominal_60                            |
|                               Exe Time :29 June 2020      21:03:22                                |
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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 . 5

Tieback_342 :
ELEMENT TYPE 6 NO.OF ELEMENTS. IN THIS GROUP 1
C U R R E N T T I M E I S 2.0000

POST-TENSION 2D-BOUNDARY ELEMENT

EL	FORCE	d0	EDISPL	pl. eps	K	-ve limit	+ve limit
----	-------	----	--------	---------	---	-----------	-----------

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

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ITER    0  RNORM = 0.000    RMNORM= 0.000
         RINORM=0.4745E+06 RIMNOR=0.4469E+07
         RENORM= 2726.    REMNOR=0.2911E-18 RATIO =0.7580E-01 TOLER =0.1000E-03 NOT CONVERGED
         RFMAX = 99.87    RMMAX = 310.8
         RTSMAL=0.1000E-03 RMSMAL=0.1000E-02
         RDT =0.4745E+06 RDR =0.4469E+07
         RATIOT=0.7580E-01 RATIO= 0.000
         MAX UN=0.5811E-08 IEQ= 15 NODE        8 DOF    1 Y-DISPL.F
         MIN UN=-52.21    IEQ= 31 NODE        16 DOF    1 Y-DISPL.F
         NO. OF CONTACT CONSTRAINT VIOLATIONS    0

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ITER    2  RNORM = 0.000    RMNORM= 0.000
         RINORM=0.4745E+06 RIMNOR=0.4469E+07
         RENORM=0.7692    REMNOR=0.2045E-18 RATIO =0.1273E-02 TOLER =0.1000E-03 NOT CONVERGED
         RFMAX = 99.87    RMMAX = 310.8
         RTSMAL=0.1000E-03 RMSMAL=0.1000E-02
         RDT =0.4745E+06 RDR =0.4469E+07
         RATIOT=0.1273E-02 RATIO= 0.000
         MAX UN=0.1832E-08 IEQ= 39 NODE        20 DOF    1 Y-DISPL.F
         MIN UN=-.5076    IEQ= 41 NODE        21 DOF    1 Y-DISPL.F
         NO. OF CONTACT CONSTRAINT VIOLATIONS    0

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ITER    3  RNORM = 0.000    RMNORM= 0.000
         RINORM=0.4745E+06 RIMNOR=0.4469E+07
         RENORM=0.7424E-03 REMNOR=0.3081E-18 RATIO =0.3956E-04 TOLER =0.1000E-03 CONVERGED !
         RFMAX = 99.87    RMMAX = 310.8
         RTSMAL=0.1000E-03 RMSMAL=0.1000E-02
         RDT =0.4745E+06 RDR =0.4469E+07
         RATIOT=0.3956E-04 RATIO= 0.000
         MAX UN=0.3463E-02 IEQ= 97 NODE        49 DOF    1 Y-DISPL.F
         MIN UN=-.2699E-01 IEQ= 17 NODE        9 DOF    1 Y-DISPL.F
         NO. OF CONTACT CONSTRAINT VIOLATIONS    0

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|                PARATIE PLUS 2014 NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Sept23, 2015*                |
|                                                                                                                                            |
|                                                                                                                                            |
|                NewProject.BaseDesignSection_25.Nominal_60                                                                              |
|                Exe Time :29 June 2020      21:03:22                                                                              |
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New Project
SOLUTION REACHED USING 3 ITERATIONS ON 40

PRINT OUT FOR TIME STEP 3 (AT TIME 3.000)

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

	Y-DISPL.F (02)	X-ROT. F (04)	(
1	9.3851152E-03	-1.3253653E-03	
2	9.1200422E-03	-1.3253653E-03	
3	8.8549705E-03	-1.3253437E-03	
4	8.5899095E-03	-1.3252493E-03	
5	8.3248801E-03	-1.3250150E-03	
6	8.0599181E-03	-1.3245577E-03	
7	7.7950782E-03	-1.3237786E-03	
8	7.5304358E-03	-1.3225626E-03	
9	7.2660912E-03	-1.3207790E-03	
10	7.0021720E-03	-1.3182807E-03	
11	6.7388373E-03	-1.3149050E-03	
12	6.4762801E-03	-1.3104756E-03	
13	6.2147299E-03	-1.3048020E-03	
14	5.9544560E-03	-1.2976797E-03	
15	5.6957693E-03	-1.2888906E-03	
16	5.4390265E-03	-1.2782022E-03	
17	5.1845775E-03	-1.2661796E-03	
18	4.9326069E-03	-1.2533736E-03	
19	4.6832985E-03	-1.2395105E-03	
20	4.4368924E-03	-1.2243024E-03	
21	4.1936874E-03	-1.2074477E-03	
22	3.9540422E-03	-1.1886597E-03	
23	3.7183681E-03	-1.1677025E-03	
24	3.4871169E-03	-1.1444094E-03	
25	3.2607660E-03	-1.1186918E-03	
26	3.0398025E-03	-1.0905392E-03	
27	2.8247071E-03	-1.0600186E-03	
28	2.6159422E-03	-1.0272751E-03	
29	2.4139305E-03	-9.9253034E-04	
30	2.2190457E-03	-9.5605062E-04	
31	2.0316088E-03	-9.1810586E-04	
32	1.8518843E-03	-8.7896081E-04	
33	1.6800871E-03	-8.3887643E-04	
34	1.5163793E-03	-7.9810946E-04	
35	1.3608720E-03	-7.5691294E-04	
36	1.2136261E-03	-7.1553650E-04	
37	1.0746529E-03	-6.7422677E-04	
38	9.4391501E-04	-6.332258E-04	
39	8.2132955E-04	-5.9274253E-04	
40	7.0677095E-04	-5.5297745E-04	
41	6.0007984E-04	-5.1409328E-04	
42	5.0106545E-04	-4.7623196E-04	
43	4.0951088E-04	-4.3951332E-04	
44	3.2517773E-04	-4.0403687E-04	
45	2.4780841E-04	-3.6988262E-04	
46	1.7713232E-04	-3.3711372E-04	
47	1.1286745E-04	-3.0577699E-04	
48	5.4723879E-05	-2.7590501E-04	
49	2.4063932E-06	-2.4751878E-04	
50	-4.4383205E-05	-2.2062957E-04	
51	-8.5945064E-05	-1.9523839E-04	
52	-1.2257786E-04	-1.7133669E-04	
53	-1.5457787E-04	-1.4890699E-04	
54	-1.8223710E-04	-1.2792395E-04	
55	-2.0584165E-04	-1.0835557E-04	
56	-2.2567097E-04	-9.0163618E-05	
57	-2.4199600E-04	-7.3305250E-05	
58	-2.5507885E-04	-5.7733578E-05	
59	-2.6517188E-04	-4.3398637E-05	
60	-2.7251723E-04	-3.0248088E-05	
61	-2.7734641E-04	-1.8227549E-05	
62	-2.7987992E-04	-7.2812677E-06	
63	-2.8032691E-04	2.6461142E-06	
64	-2.7888549E-04	1.1612620E-05	
65	-2.7574218E-04	1.9674429E-05	
66	-2.7107228E-04	2.6887831E-05	
67	-2.6503990E-04	3.3308374E-05	
68	-2.5779815E-04	3.8990559E-05	
69	-2.4948936E-04	4.3987585E-05	
70	-2.4024535E-04	4.8351103E-05	
71	-2.3018782E-04	5.2131019E-05	
72	-2.1942866E-04	5.5375301E-05	
73	-2.0807035E-04	5.8129833E-05	
74	-1.9620646E-04	6.0438272E-05	

75	-1.8392203E-04	6.2341934E-05
76	-1.7129408E-04	6.3879700E-05
77	-1.5839212E-04	6.5087931E-05
78	-1.4527806E-04	6.6008930E-05
79	-1.3200453E-04	6.6690189E-05
80	-1.1861507E-04	6.7175114E-05
81	-1.0514495E-04	6.7502990E-05
82	-9.1622003E-05	6.7708939E-05
83	-7.8067443E-05	6.7823903E-05
84	-6.4496725E-05	6.7874626E-05
85	-5.0920373E-05	6.7883649E-05
86	-3.7344823E-05	6.7869304E-05
87	-2.3773270E-05	6.7845677E-05
88	-1.0206519E-05	6.7822545E-05
89	3.3561652E-06	6.7805667E-05
90	1.6916304E-05	6.7797132E-05
91	3.0476122E-05	6.7794982E-05

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|                PARATIE PLUS 2014 NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Sept23, 2015*                |
|                                                                                                                    |
|                NewProject.BaseDesignSection_25.Nominal_60                                                         |
|                Exe Time :29 June 2020 21:03:22                                                                    |
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New Project

STRESS RESULTS FOR GROUP NO. 1

0_L :
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 91
CURRENT TIME IS 3.0000

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 LAYER	MAX-H-P	STATE	STIFFNESS	Z-LEVEL	PORE	E FAC-
1 D	0.000	-9.3851E-03	0.000	0.000	0.000	0.000	PASSIVE	0.000	2.000	0.000	
1.000	1.000	0.000	0.000	0.000	FRANA_334_8_L_0						
2 D	1.391	-9.1200E-03	4.000	6.956	4.000	6.956	V-C	3600.	1.800	0.000	
1.000	1.000	6.956	0.000	0.000	FRANA_334_8_L_0						
3 D	1.904	-8.8550E-03	8.000	9.519	8.000	9.519	V-C	3600.	1.600	0.000	
1.000	1.000	9.519	0.000	0.000	FRANA_334_8_L_0						
4 D	2.417	-8.5899E-03	12.00	12.08	12.00	12.08	V-C	3600.	1.400	0.000	
1.000	1.000	12.08	0.000	0.000	FRANA_334_8_L_0						
5 D	2.929	-8.3249E-03	16.00	14.65	16.00	14.65	V-C	3600.	1.200	0.000	
1.000	1.000	14.65	0.000	0.000	FRANA_334_8_L_0						
6 D	3.442	-8.0599E-03	20.00	17.21	20.00	17.21	V-C	3600.	1.000	0.000	
1.000	1.000	17.21	0.000	0.000	FRANA_334_8_L_0						
7 D	3.954	-7.7951E-03	24.00	19.77	24.00	19.77	V-C	3600.	0.8000	0.000	
1.000	1.000	19.77	0.000	0.000	FRANA_334_8_L_0						
8 D	4.467	-7.5304E-03	28.00	22.33	28.00	22.33	V-C	3600.	0.6000	0.000	
1.000	1.000	22.33	0.000	0.000	FRANA_334_8_L_0						
9 D	4.979	-7.2661E-03	32.00	24.90	32.00	24.90	V-C	3600.	0.4000	0.000	
1.000	1.000	24.90	0.000	0.000	FRANA_334_8_L_0						
10 D	5.456	-7.0022E-03	36.00	27.28	36.00	27.76	UL-RL	5760.	0.2000	0.000	
1.000	1.000	27.28	0.000	0.000	FRANA_334_8_L_0						
11 D	5.905	-6.7388E-03	40.00	29.53	40.00	30.84	UL-RL	5760.	-1.4901E-07	0.000	
1.000	1.000	29.53	0.000	0.000	FRANA_334_8_L_0						
12 D	6.354	-6.4763E-03	44.00	31.77	44.00	33.92	UL-RL	5760.	-0.2000	0.000	
1.000	1.000	31.77	0.000	0.000	FRANA_334_8_L_0						
13 D	6.803	-6.2147E-03	48.00	34.02	48.00	37.01	UL-RL	5760.	-0.4000	0.000	
1.000	1.000	34.02	0.000	0.000	FRANA_334_8_L_0						
14 D	7.252	-5.9545E-03	52.00	36.26	52.00	40.09	UL-RL	5760.	-0.6000	0.000	
1.000	1.000	36.26	0.000	0.000	FRANA_334_8_L_0						
15 D	7.699	-5.6958E-03	56.00	38.50	56.00	43.17	UL-RL	5760.	-0.8000	0.000	
1.000	1.000	38.50	0.000	0.000	FRANA_334_8_L_0						
16 D	8.146	-5.4390E-03	60.00	40.73	60.00	46.25	UL-RL	5760.	-1.000	0.000	
1.000	1.000	40.73	0.000	0.000	FRANA_334_8_L_0						
17 D	8.593	-5.1846E-03	64.01	42.96	64.01	49.34	UL-RL	5760.	-1.200	0.000	
1.000	1.000	42.96	0.000	0.000	FRANA_334_8_L_0						
18 D	9.039	-4.9326E-03	68.01	45.19	68.01	52.42	UL-RL	5760.	-1.400	0.000	
1.000	1.000	45.19	0.000	0.000	FRANA_334_8_L_0						
19 D	9.485	-4.6833E-03	72.01	47.42	72.01	55.50	UL-RL	5760.	-1.600	0.000	
1.000	1.000	47.42	0.000	0.000	FRANA_334_8_L_0						
20 D	9.930	-4.4369E-03	76.01	49.65	76.01	58.58	UL-RL	5760.	-1.800	0.000	
1.000	1.000	49.65	0.000	0.000	FRANA_334_8_L_0						
21 D	8.539	-4.1937E-03	80.01	42.70	80.01	47.50	UL-RL	2.3455E+04	-2.000	0.000	
1.000	1.000	42.70	0.000	0.000	BNA3(2)_335_337_L_0						
22 D	8.698	-3.9540E-03	84.01	43.49	84.01	49.88	UL-RL	2.3455E+04	-2.200	0.000	
1.000	1.000	43.49	0.000	0.000	BNA3(2)_335_337_L_0						
23 D	8.860	-3.7184E-03	88.01	44.30	88.01	52.25	UL-RL	2.3455E+04	-2.400	0.000	
1.000	1.000	44.30	0.000	0.000	BNA3(2)_335_337_L_0						
24 D	9.025	-3.4871E-03	92.02	45.13	92.02	54.62	UL-RL	2.3455E+04	-2.600	0.000	
1.000	1.000	45.13	0.000	0.000	BNA3(2)_335_337_L_0						
25 D	9.196	-3.2608E-03	96.02	45.98	96.02	56.99	UL-RL	2.3455E+04	-2.800	0.000	
1.000	1.000	45.98	0.000	0.000	BNA3(2)_335_337_L_0						
26 D	9.371	-3.0398E-03	100.0	46.85	100.0	59.36	UL-RL	2.3455E+04	-3.000	0.000	
1.000	1.000	46.85	0.000	0.000	BNA3(2)_335_337_L_0						
27 D	9.552	-2.8247E-03	104.0	47.76	104.0	61.74	UL-RL	2.3455E+04	-3.200	0.000	
1.000	1.000	47.76	0.000	0.000	BNA3(2)_335_337_L_0						
28 D	9.739	-2.6159E-03	108.0	48.69	108.0	64.11	UL-RL	2.3455E+04	-3.400	0.000	
1.000	1.000	48.69	0.000	0.000	BNA3(2)_335_337_L_0						
29 D	9.932	-2.4139E-03	112.0	49.66	112.0	66.48	UL-RL	2.3455E+04	-3.600	0.000	
1.000	1.000	49.66	0.000	0.000	BNA3(2)_335_337_L_0						
30 D	10.13	-2.2190E-03	116.0	50.66	116.0	68.85	UL-RL	2.3455E+04	-3.800	0.000	
1.000	1.000	50.66	0.000	0.000	BNA3(2)_335_337_L_0						
31 D	10.34	-2.0316E-03	120.0	51.69	120.0	71.22	UL-RL	2.3455E+04	-4.000	0.000	
1.000	1.000	51.69	0.000	0.000	BNA3(2)_335_337_L_0						
32 D	10.55	-1.8519E-03	124.0	52.76	124.0	73.59	UL-RL	2.3455E+04	-4.200	0.000	
1.000	1.000	52.76	0.000	0.000	BNA3(2)_335_337_L_0						
33 D	10.77	-1.6801E-03	128.0	53.85	128.0	75.96	UL-RL	2.3455E+04	-4.400	0.000	
1.000	1.000	53.85	0.000	0.000	BNA3(2)_335_337_L_0						

34 D	11.00	-1.5164E-03	132.0	54.99	132.0	78.33	UL-RL	2.3455E+04	-4.600	0.000
1.000	1.000	54.99	0.000	0.000	BNA3(2)_335_337_L_0					
35 D	11.23	-1.3609E-03	136.0	56.15	136.0	80.69	UL-RL	2.3455E+04	-4.800	0.000
1.000	1.000	56.15	0.000	0.000	BNA3(2)_335_337_L_0					
36 D	11.47	-1.2136E-03	140.1	57.35	140.1	83.06	UL-RL	2.3455E+04	-5.000	0.000
1.000	1.000	57.35	0.000	0.000	BNA3(2)_335_337_L_0					
37 D	12.04	-1.0747E-03	144.1	60.22	144.1	85.43	UL-RL	2.3455E+04	-5.200	0.000
1.000	1.000	60.22	0.000	0.000	BNA3(2)_335_337_L_0					
38 D	13.13	-9.4392E-04	148.1	65.66	148.1	87.80	UL-RL	2.3455E+04	-5.400	0.000
1.000	1.000	65.66	0.000	0.000	BNA3(2)_335_337_L_0					
39 D	14.18	-8.2133E-04	152.1	70.90	152.1	90.16	UL-RL	2.3455E+04	-5.600	0.000
1.000	1.000	70.90	0.000	0.000	BNA3(2)_335_337_L_0					
40 D	15.19	-7.0677E-04	156.1	75.95	156.1	92.53	UL-RL	2.3455E+04	-5.800	0.000
1.000	1.000	75.95	0.000	0.000	BNA3(2)_335_337_L_0					
41 D	16.16	-6.0008E-04	160.1	80.82	160.1	94.89	UL-RL	2.3455E+04	-6.000	0.000
1.000	1.000	80.82	0.000	0.000	BNA3(2)_335_337_L_0					
42 D	17.10	-5.0107E-04	164.1	85.51	164.1	97.26	UL-RL	2.3455E+04	-6.200	0.000
1.000	1.000	85.51	0.000	0.000	BNA3(2)_335_337_L_0					
43 D	18.00	-4.0951E-04	168.1	90.02	168.1	99.62	UL-RL	2.3455E+04	-6.400	0.000
1.000	1.000	90.02	0.000	0.000	BNA3(2)_335_337_L_0					
44 D	18.87	-3.2518E-04	172.1	94.36	172.1	102.0	UL-RL	2.3455E+04	-6.600	0.000
1.000	1.000	94.36	0.000	0.000	BNA3(2)_335_337_L_0					
45 D	19.71	-2.4781E-04	176.1	98.54	176.1	104.3	UL-RL	2.3455E+04	-6.800	0.000
1.000	1.000	98.54	0.000	0.000	BNA3(2)_335_337_L_0					
46 D	20.51	-1.7713E-04	180.1	102.6	180.1	106.7	UL-RL	2.3455E+04	-7.000	0.000
1.000	1.000	102.6	0.000	0.000	BNA3(2)_335_337_L_0					
47 D	21.24	-1.1287E-04	184.1	106.2	184.1	109.4	UL-RL	2.3455E+04	-7.200	0.000
1.000	1.000	106.2	0.000	0.000	BNA3(2)_335_337_L_0					
48 D	21.91	-5.4724E-05	188.1	109.6	188.1	112.4	UL-RL	2.3455E+04	-7.400	0.000
1.000	1.000	109.6	0.000	0.000	BNA3(2)_335_337_L_0					
49 D	22.56	-2.4064E-06	192.1	112.8	192.1	115.4	UL-RL	2.3455E+04	-7.600	0.000
1.000	1.000	112.8	0.000	0.000	BNA3(2)_335_337_L_0					
50 D	23.19	4.4383E-05	196.1	115.9	196.1	118.2	UL-RL	2.3455E+04	-7.800	0.000
1.000	1.000	115.9	0.000	0.000	BNA3(2)_335_337_L_0					
51 D	23.80	8.5945E-05	200.1	119.0	200.1	121.0	UL-RL	2.3455E+04	-8.000	0.000
1.000	1.000	119.0	0.000	0.000	BNA3(2)_335_337_L_0					
52 D	24.40	1.2258E-04	204.1	122.0	204.1	123.8	UL-RL	2.3455E+04	-8.200	0.000
1.000	1.000	122.0	0.000	0.000	BNA3(2)_335_337_L_0					
53 D	24.99	1.5458E-04	208.2	124.9	208.2	126.5	UL-RL	2.3455E+04	-8.400	0.000
1.000	1.000	124.9	0.000	0.000	BNA3(2)_335_337_L_0					
54 D	25.56	1.8224E-04	212.2	127.8	212.2	129.1	UL-RL	2.3455E+04	-8.600	0.000
1.000	1.000	127.8	0.000	0.000	BNA3(2)_335_337_L_0					
55 D	26.11	2.0584E-04	216.2	130.6	216.2	131.7	UL-RL	2.3455E+04	-8.800	0.000
1.000	1.000	130.6	0.000	0.000	BNA3(2)_335_337_L_0					
56 D	26.65	2.2567E-04	220.2	133.3	220.2	134.2	UL-RL	2.3455E+04	-9.000	0.000
1.000	1.000	133.3	0.000	0.000	BNA3(2)_335_337_L_0					
57 D	27.17	2.4200E-04	224.2	135.8	224.2	136.8	UL-RL	2.3455E+04	-9.200	0.000
1.000	1.000	135.8	0.000	0.000	BNA3(2)_335_337_L_0					
58 D	27.68	2.5508E-04	228.2	138.4	228.2	139.4	UL-RL	2.3455E+04	-9.400	0.000
1.000	1.000	138.4	0.000	0.000	BNA3(2)_335_337_L_0					
59 D	28.18	2.6517E-04	232.2	140.9	232.2	141.9	UL-RL	2.3455E+04	-9.600	0.000
1.000	1.000	140.9	0.000	0.000	BNA3(2)_335_337_L_0					
60 D	28.67	2.7252E-04	236.2	143.4	236.2	144.3	UL-RL	2.3455E+04	-9.800	0.000
1.000	1.000	143.4	0.000	0.000	BNA3(2)_335_337_L_0					
61 D	29.16	2.7735E-04	240.2	145.8	240.2	146.8	UL-RL	2.3455E+04	-10.000	0.000
1.000	1.000	145.8	0.000	0.000	BNA3(2)_335_337_L_0					
62 D	29.64	2.7988E-04	244.2	148.2	244.2	149.1	UL-RL	2.3455E+04	-10.200	0.000
1.000	1.000	148.2	0.000	0.000	BNA3(2)_335_337_L_0					
63 D	30.11	2.8033E-04	248.2	150.6	248.2	151.5	UL-RL	2.3455E+04	-10.400	0.000
1.000	1.000	150.6	0.000	0.000	BNA3(2)_335_337_L_0					
64 D	30.58	2.7889E-04	252.3	152.9	252.3	153.8	UL-RL	2.3455E+04	-10.600	0.000
1.000	1.000	152.9	0.000	0.000	BNA3(2)_335_337_L_0					
65 D	31.05	2.7574E-04	256.3	155.2	256.3	156.1	UL-RL	2.3455E+04	-10.800	0.000
1.000	1.000	155.2	0.000	0.000	BNA3(2)_335_337_L_0					
66 D	31.50	2.7107E-04	260.3	157.5	260.3	158.3	UL-RL	2.3455E+04	-11.000	0.000
1.000	1.000	157.5	0.000	0.000	BNA3(2)_335_337_L_0					
67 D	31.96	2.6504E-04	264.3	159.8	264.3	160.6	UL-RL	2.3455E+04	-11.200	0.000
1.000	1.000	159.8	0.000	0.000	BNA3(2)_335_337_L_0					
68 D	32.41	2.5780E-04	268.3	162.1	268.3	162.8	UL-RL	2.3455E+04	-11.400	0.000
1.000	1.000	162.1	0.000	0.000	BNA3(2)_335_337_L_0					
69 D	32.86	2.4949E-04	272.3	164.3	272.3	165.0	UL-RL	2.3455E+04	-11.600	0.000
1.000	1.000	164.3	0.000	0.000	BNA3(2)_335_337_L_0					
70 D	33.31	2.4025E-04	276.3	166.5	276.3	167.2	UL-RL	2.3455E+04	-11.800	0.000
1.000	1.000	166.5	0.000	0.000	BNA3(2)_335_337_L_0					
71 D	33.75	2.3019E-04	280.3	168.7	280.3	169.4	UL-RL	2.3455E+04	-12.000	0.000
1.000	1.000	168.7	0.000	0.000	BNA3(2)_335_337_L_0					
72 D	34.19	2.1943E-04	284.4	171.0	284.4	171.5	UL-RL	2.3455E+04	-12.200	0.000
1.000	1.000	171.0	0.000	0.000	BNA3(2)_335_337_L_0					
73 D	34.63	2.0807E-04	288.4	173.2	288.4	173.7	UL-RL	2.3455E+04	-12.400	0.000
1.000	1.000	173.2	0.000	0.000	BNA3(2)_335_337_L_0					
74 D	35.07	1.9621E-04	292.4	175.3	292.4	175.8	UL-RL	2.3455E+04	-12.600	0.000
1.000	1.000	175.3	0.000	0.000	BNA3(2)_335_337_L_0					
75 D	35.50	1.8392E-04	296.4	177.5	296.4	178.0	UL-RL	2.3455E+04	-12.800	0.000
1.000	1.000	177.5	0.000	0.000	BNA3(2)_335_337_L_0					
76 D	35.94	1.7129E-04	300.4	179.7	300.4	180.1	UL-RL	2.3455E+04	-13.000	0.000
1.000	1.000	179.7	0.000	0.000	BNA3(2)_335_337_L_0					
77 D	40.74	1.5839E-04	304.4	203.7	304.4	204.2	UL-RL	3.2434E+04	-13.200	0.000
1.000	1.000	203.7	0.000	0.000	BNA3(3)_336_338_L_0					
78 D	41.21	1.4528E-04	308.4	206.1	308.4	206.5	UL-RL	3.2434E+04	-13.400	0.000
1.000	1.000	206.1	0.000	0.000	BNA3(3)_336_338_L_0					
79 D	41.69	1.3200E-04	312.4	208.4	312.4	208.8	UL-RL	3.2434E+04	-13.600	0.000
1.000	1.000	208.4	0.000	0.000	BNA3(3)_336_338_L_0					

80 D	42.16	1.1862E-04	316.5	210.8	316.5	211.1	UL-RL	3.2434E+04	-13.80	0.000
1.000	1.000		210.8	0.000	0.000	BNA3(3)_336_338_L_0				
81 D	42.64	1.0514E-04	320.5	213.2	320.5	213.4	UL-RL	3.2434E+04	-14.00	0.000
1.000	1.000		213.2	0.000	0.000	BNA3(3)_336_338_L_0				
82 D	43.11	9.1622E-05	324.5	215.5	324.5	215.7	UL-RL	3.2434E+04	-14.20	0.000
1.000	1.000		215.5	0.000	0.000	BNA3(3)_336_338_L_0				
83 D	43.58	7.8067E-05	328.5	217.9	328.5	218.1	UL-RL	3.2434E+04	-14.40	0.000
1.000	1.000		217.9	0.000	0.000	BNA3(3)_336_338_L_0				
84 D	44.05	6.4497E-05	332.5	220.3	332.5	220.4	UL-RL	3.2434E+04	-14.60	0.000
1.000	1.000		220.3	0.000	0.000	BNA3(3)_336_338_L_0				
85 D	44.53	5.0920E-05	336.5	222.6	336.5	222.7	UL-RL	3.2434E+04	-14.80	0.000
1.000	1.000		222.6	0.000	0.000	BNA3(3)_336_338_L_0				
86 D	45.00	3.7345E-05	340.5	225.0	340.5	225.0	V-C	2.0271E+04	-15.00	0.000
1.000	1.000		225.0	0.000	0.000	BNA3(3)_336_338_L_0				
87 D	45.47	2.3773E-05	344.6	227.3	344.6	227.3	V-C	2.0271E+04	-15.20	0.000
1.000	1.000		227.3	0.000	0.000	BNA3(3)_336_338_L_0				
88 D	45.93	1.0207E-05	348.6	229.7	348.6	229.7	V-C	2.0271E+04	-15.40	0.000
1.000	1.000		229.7	0.000	0.000	BNA3(3)_336_338_L_0				
89 D	46.39	-3.3562E-06	352.6	232.0	352.6	232.1	UL-RL	3.2434E+04	-15.60	0.000
1.000	1.000		232.0	0.000	0.000	BNA3(3)_336_338_L_0				
90 D	46.83	-1.6916E-05	356.6	234.1	356.6	234.7	UL-RL	3.2434E+04	-15.80	0.000
1.000	1.000		234.1	0.000	0.000	BNA3(3)_336_338_L_0				
91 D	23.63	-3.0476E-05	360.6	236.3	360.6	237.3	UL-RL	3.2434E+04	-16.00	0.000
1.000	1.000		236.3	0.000	0.000	BNA3(3)_336_338_L_0				

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|                PARATIE PLUS 2014 NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Sept23, 2015*                |
|                                                                                                            |
|                NewProject.BaseDesignSection_25.Nominal_60                                            |
|                Exe Time :29 June 2020      21:03:22                                                    |
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New Project

STRESS RESULTS FOR GROUP NO. 2

O_R :
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 91
CURRENT TIME IS 3.0000

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 LAYER	MAX-H-P	STATE	STIFFNESS	Z-LEVEL	PORE	E FAC-
1	0.000	--	--	--	--	--	REMOVED	--	2.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
2	0.000	--	--	--	--	--	REMOVED	--	1.800	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
3	0.000	--	--	--	--	--	REMOVED	--	1.600	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
4	0.000	--	--	--	--	--	REMOVED	--	1.400	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
5	0.000	--	--	--	--	--	REMOVED	--	1.200	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
6	0.000	--	--	--	--	--	REMOVED	--	1.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
7	0.000	--	--	--	--	--	REMOVED	--	0.8000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
8	0.000	--	--	--	--	--	REMOVED	--	0.6000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
9	0.000	--	--	--	--	--	REMOVED	--	0.4000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
10	0.000	--	--	--	--	--	REMOVED	--	0.2000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
11	0.000	--	--	--	--	--	REMOVED	--	-1.4901E-07	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
12	0.000	--	--	--	--	--	REMOVED	--	-0.2000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
13	0.000	--	--	--	--	--	REMOVED	--	-0.4000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
14	0.000	--	--	--	--	--	REMOVED	--	-0.6000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
15	0.000	--	--	--	--	--	REMOVED	--	-0.8000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
16	0.000	--	--	--	--	--	REMOVED	--	-1.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
17	0.000	--	--	--	--	--	REMOVED	--	-1.200	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
18	0.000	--	--	--	--	--	REMOVED	--	-1.400	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
19	0.000	--	--	--	--	--	REMOVED	--	-1.600	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
20	0.000	--	--	--	--	--	REMOVED	--	-1.800	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
21 D	0.000	4.1937E-03	0.000	0.000	80.00	47.50	ACTIVE	0.000	-2.000	0.000	
1.000	1.000	0.000	0.000	0.000	BNA3(2)_335_337_L_0						
22 D	2.066	3.9540E-03	4.000	10.33	84.00	49.88	UL-RL	1.9186E+04	-2.200	0.000	
1.000	1.000	10.33	0.000	0.000	BNA3(2)_335_337_L_0						
23 D	4.751	3.7184E-03	8.000	23.75	88.00	52.25	UL-RL	1.9186E+04	-2.400	0.000	
1.000	1.000	23.75	0.000	0.000	BNA3(2)_335_337_L_0						
24 D	7.433	3.4871E-03	12.00	37.16	92.00	54.62	UL-RL	1.9186E+04	-2.600	0.000	
1.000	1.000	37.16	0.000	0.000	BNA3(2)_335_337_L_0						
25 D	10.11	3.2608E-03	16.00	50.55	96.00	58.13	UL-RL	1.9186E+04	-2.800	0.000	
1.000	1.000	50.55	0.000	0.000	BNA3(2)_335_337_L_0						
26 D	12.78	3.0398E-03	20.00	63.92	100.0	70.88	UL-RL	1.9186E+04	-3.000	0.000	
1.000	1.000	63.92	0.000	0.000	BNA3(2)_335_337_L_0						
27 D	15.45	2.8247E-03	24.00	77.27	104.0	83.63	UL-RL	1.9186E+04	-3.200	0.000	
1.000	1.000	77.27	0.000	0.000	BNA3(2)_335_337_L_0						
28 D	18.12	2.6159E-03	28.00	90.59	108.0	96.38	UL-RL	1.9186E+04	-3.400	0.000	
1.000	1.000	90.59	0.000	0.000	BNA3(2)_335_337_L_0						
29 D	18.69	2.4139E-03	32.00	93.46	112.0	98.70	UL-RL	1.9186E+04	-3.600	0.000	
1.000	1.000	93.46	0.000	0.000	BNA3(2)_335_337_L_0						
30 D	18.74	2.2190E-03	36.00	93.69	116.0	98.40	UL-RL	1.9186E+04	-3.800	0.000	
1.000	1.000	93.69	0.000	0.000	BNA3(2)_335_337_L_0						
31 D	18.80	2.0316E-03	40.00	94.00	120.0	98.22	UL-RL	1.9186E+04	-4.000	0.000	
1.000	1.000	94.00	0.000	0.000	BNA3(2)_335_337_L_0						
32 D	18.88	1.8519E-03	44.00	94.39	124.0	98.14	UL-RL	1.9186E+04	-4.200	0.000	
1.000	1.000	94.39	0.000	0.000	BNA3(2)_335_337_L_0						
33 D	18.97	1.6801E-03	48.00	94.86	128.0	98.17	UL-RL	1.9186E+04	-4.400	0.000	
1.000	1.000	94.86	0.000	0.000	BNA3(2)_335_337_L_0						

34 D	19.08	1.5164E-03	52.00	95.42	132.0	98.32	UL-RL	1.9186E+04	-4.600	0.000
1.000	1.000	95.42	0.000	0.000	BNA3(2)_335_337_L_0					
35 D	19.21	1.3609E-03	56.00	96.07	136.0	98.58	UL-RL	1.9186E+04	-4.800	0.000
1.000	1.000	96.07	0.000	0.000	BNA3(2)_335_337_L_0					
36 D	19.36	1.2136E-03	60.00	96.81	140.0	98.96	UL-RL	1.9186E+04	-5.000	0.000
1.000	1.000	96.81	0.000	0.000	BNA3(2)_335_337_L_0					
37 D	19.53	1.0747E-03	64.00	97.63	144.0	99.45	UL-RL	1.9186E+04	-5.200	0.000
1.000	1.000	97.63	0.000	0.000	BNA3(2)_335_337_L_0					
38 D	19.71	9.4392E-04	68.00	98.55	148.0	100.1	UL-RL	1.9186E+04	-5.400	0.000
1.000	1.000	98.55	0.000	0.000	BNA3(2)_335_337_L_0					
39 D	19.91	8.2133E-04	72.00	99.55	152.0	100.8	UL-RL	1.9186E+04	-5.600	0.000
1.000	1.000	99.55	0.000	0.000	BNA3(2)_335_337_L_0					
40 D	20.13	7.0677E-04	76.00	100.6	156.0	101.6	UL-RL	1.9186E+04	-5.800	0.000
1.000	1.000	100.6	0.000	0.000	BNA3(2)_335_337_L_0					
41 D	20.36	6.0008E-04	80.00	101.8	160.0	102.5	UL-RL	1.9186E+04	-6.000	0.000
1.000	1.000	101.8	0.000	0.000	BNA3(2)_335_337_L_0					
42 D	20.62	5.0107E-04	84.00	103.1	164.0	103.6	UL-RL	1.9186E+04	-6.200	0.000
1.000	1.000	103.1	0.000	0.000	BNA3(2)_335_337_L_0					
43 D	20.88	4.0951E-04	88.00	104.4	168.0	104.7	UL-RL	1.9186E+04	-6.400	0.000
1.000	1.000	104.4	0.000	0.000	BNA3(2)_335_337_L_0					
44 D	21.17	3.2518E-04	92.00	105.8	172.0	106.0	UL-RL	1.9186E+04	-6.600	0.000
1.000	1.000	105.8	0.000	0.000	BNA3(2)_335_337_L_0					
45 D	21.46	2.4781E-04	96.00	107.3	176.0	107.3	V-C	1.1991E+04	-6.800	0.000
1.000	1.000	107.3	0.000	0.000	BNA3(2)_335_337_L_0					
46 D	21.77	1.7713E-04	100.0	108.8	180.0	108.8	V-C	1.1991E+04	-7.000	0.000
1.000	1.000	108.8	0.000	0.000	BNA3(2)_335_337_L_0					
47 D	22.09	1.1287E-04	104.0	110.4	184.0	110.4	V-C	1.1991E+04	-7.200	0.000
1.000	1.000	110.4	0.000	0.000	BNA3(2)_335_337_L_0					
48 D	22.42	5.4724E-05	108.0	112.1	188.0	112.1	V-C	1.1991E+04	-7.400	0.000
1.000	1.000	112.1	0.000	0.000	BNA3(2)_335_337_L_0					
49 D	22.77	2.4064E-06	112.0	113.8	192.0	113.8	V-C	1.1991E+04	-7.600	0.000
1.000	1.000	113.8	0.000	0.000	BNA3(2)_335_337_L_0					
50 D	23.06	-4.4383E-05	116.0	115.3	196.0	116.2	UL-RL	1.9186E+04	-7.800	0.000
1.000	1.000	115.3	0.000	0.000	BNA3(2)_335_337_L_0					
51 D	23.37	-8.5945E-05	120.0	116.9	200.0	118.5	UL-RL	1.9186E+04	-8.000	0.000
1.000	1.000	116.9	0.000	0.000	BNA3(2)_335_337_L_0					
52 D	23.71	-1.2258E-04	124.0	118.5	204.0	120.9	UL-RL	1.9186E+04	-8.200	0.000
1.000	1.000	118.5	0.000	0.000	BNA3(2)_335_337_L_0					
53 D	24.05	-1.5458E-04	128.0	120.3	208.0	123.2	UL-RL	1.9186E+04	-8.400	0.000
1.000	1.000	120.3	0.000	0.000	BNA3(2)_335_337_L_0					
54 D	24.42	-1.8224E-04	132.0	122.1	212.0	125.6	UL-RL	1.9186E+04	-8.600	0.000
1.000	1.000	122.1	0.000	0.000	BNA3(2)_335_337_L_0					
55 D	24.80	-2.0584E-04	136.0	124.0	216.0	128.0	UL-RL	1.9186E+04	-8.800	0.000
1.000	1.000	124.0	0.000	0.000	BNA3(2)_335_337_L_0					
56 D	25.20	-2.2567E-04	140.0	126.0	220.0	130.3	UL-RL	1.9186E+04	-9.000	0.000
1.000	1.000	126.0	0.000	0.000	BNA3(2)_335_337_L_0					
57 D	25.61	-2.4200E-04	144.0	128.0	224.0	132.7	UL-RL	1.9186E+04	-9.200	0.000
1.000	1.000	128.0	0.000	0.000	BNA3(2)_335_337_L_0					
58 D	26.03	-2.5508E-04	148.0	130.1	228.0	135.0	UL-RL	1.9186E+04	-9.400	0.000
1.000	1.000	130.1	0.000	0.000	BNA3(2)_335_337_L_0					
59 D	26.46	-2.6517E-04	152.0	132.3	232.0	137.4	UL-RL	1.9186E+04	-9.600	0.000
1.000	1.000	132.3	0.000	0.000	BNA3(2)_335_337_L_0					
60 D	26.90	-2.7252E-04	156.0	134.5	236.0	139.7	UL-RL	1.9186E+04	-9.800	0.000
1.000	1.000	134.5	0.000	0.000	BNA3(2)_335_337_L_0					
61 D	27.35	-2.7735E-04	160.0	136.8	240.0	142.1	UL-RL	1.9186E+04	-10.000	0.000
1.000	1.000	136.8	0.000	0.000	BNA3(2)_335_337_L_0					
62 D	27.82	-2.7988E-04	164.0	139.1	244.0	144.4	UL-RL	1.9186E+04	-10.200	0.000
1.000	1.000	139.1	0.000	0.000	BNA3(2)_335_337_L_0					
63 D	28.28	-2.8033E-04	168.0	141.4	248.0	146.8	UL-RL	1.9186E+04	-10.400	0.000
1.000	1.000	141.4	0.000	0.000	BNA3(2)_335_337_L_0					
64 D	28.76	-2.7889E-04	172.0	143.8	252.0	149.2	UL-RL	1.9186E+04	-10.600	0.000
1.000	1.000	143.8	0.000	0.000	BNA3(2)_335_337_L_0					
65 D	29.24	-2.7574E-04	176.0	146.2	256.0	151.5	UL-RL	1.9186E+04	-10.800	0.000
1.000	1.000	146.2	0.000	0.000	BNA3(2)_335_337_L_0					
66 D	29.73	-2.7107E-04	180.0	148.7	260.0	153.9	UL-RL	1.9186E+04	-11.000	0.000
1.000	1.000	148.7	0.000	0.000	BNA3(2)_335_337_L_0					
67 D	30.22	-2.6504E-04	184.0	151.1	264.0	156.2	UL-RL	1.9186E+04	-11.200	0.000
1.000	1.000	151.1	0.000	0.000	BNA3(2)_335_337_L_0					
68 D	30.72	-2.5780E-04	188.0	153.6	268.0	158.6	UL-RL	1.9186E+04	-11.400	0.000
1.000	1.000	153.6	0.000	0.000	BNA3(2)_335_337_L_0					
69 D	31.22	-2.4949E-04	192.0	156.1	272.0	160.9	UL-RL	1.9186E+04	-11.600	0.000
1.000	1.000	156.1	0.000	0.000	BNA3(2)_335_337_L_0					
70 D	31.73	-2.4025E-04	196.0	158.6	276.0	163.3	UL-RL	1.9186E+04	-11.800	0.000
1.000	1.000	158.6	0.000	0.000	BNA3(2)_335_337_L_0					
71 D	32.24	-2.3019E-04	200.0	161.2	280.0	165.6	UL-RL	1.9186E+04	-12.000	0.000
1.000	1.000	161.2	0.000	0.000	BNA3(2)_335_337_L_0					
72 D	32.75	-2.1943E-04	204.0	163.7	284.0	168.0	UL-RL	1.9186E+04	-12.200	0.000
1.000	1.000	163.7	0.000	0.000	BNA3(2)_335_337_L_0					
73 D	33.26	-2.0807E-04	208.0	166.3	288.0	170.3	UL-RL	1.9186E+04	-12.400	0.000
1.000	1.000	166.3	0.000	0.000	BNA3(2)_335_337_L_0					
74 D	33.78	-1.9621E-04	212.0	168.9	292.0	172.6	UL-RL	1.9186E+04	-12.600	0.000
1.000	1.000	168.9	0.000	0.000	BNA3(2)_335_337_L_0					
75 D	34.29	-1.8392E-04	216.0	171.5	296.0	175.0	UL-RL	1.9186E+04	-12.800	0.000
1.000	1.000	171.5	0.000	0.000	BNA3(2)_335_337_L_0					
76 D	34.81	-1.7129E-04	220.0	174.1	300.0	177.3	UL-RL	1.9186E+04	-13.000	0.000
1.000	1.000	174.1	0.000	0.000	BNA3(2)_335_337_L_0					
77 D	39.14	-1.5839E-04	224.0	195.7	304.0	200.7	UL-RL	3.1218E+04	-13.200	0.000
1.000	1.000	195.7	0.000	0.000	BNA3(3)_336_338_L_0					
78 D	39.75	-1.4528E-04	228.0	198.7	308.0	203.3	UL-RL	3.1218E+04	-13.400	0.000
1.000	1.000	198.7	0.000	0.000	BNA3(3)_336_338_L_0					
79 D	40.36	-1.3200E-04	232.0	201.8	312.0	205.9	UL-RL	3.1218E+04	-13.600	0.000
1.000	1.000	201.8	0.000	0.000	BNA3(3)_336_338_L_0					

80 D	40.96	-1.1862E-04	236.0	204.8	316.0	208.5	UL-RL	3.1218E+04	-13.80	0.000
1.000	1.000		204.8	0.000	0.000	BNA3(3)_336_338_L_0				
81 D	41.57	-1.0514E-04	240.0	207.9	320.0	211.1	UL-RL	3.1218E+04	-14.00	0.000
1.000	1.000		207.9	0.000	0.000	BNA3(3)_336_338_L_0				
82 D	42.18	-9.1622E-05	244.0	210.9	324.0	213.8	UL-RL	3.1218E+04	-14.20	0.000
1.000	1.000		210.9	0.000	0.000	BNA3(3)_336_338_L_0				
83 D	42.79	-7.8067E-05	248.0	213.9	328.0	216.4	UL-RL	3.1218E+04	-14.40	0.000
1.000	1.000		213.9	0.000	0.000	BNA3(3)_336_338_L_0				
84 D	43.40	-6.4497E-05	252.0	217.0	332.0	219.0	UL-RL	3.1218E+04	-14.60	0.000
1.000	1.000		217.0	0.000	0.000	BNA3(3)_336_338_L_0				
85 D	44.01	-5.0920E-05	256.0	220.0	336.0	221.6	UL-RL	3.1218E+04	-14.80	0.000
1.000	1.000		220.0	0.000	0.000	BNA3(3)_336_338_L_0				
86 D	44.61	-3.7345E-05	260.0	223.1	340.0	224.2	UL-RL	3.1218E+04	-15.00	0.000
1.000	1.000		223.1	0.000	0.000	BNA3(3)_336_338_L_0				
87 D	45.22	-2.3773E-05	264.0	226.1	344.0	226.8	UL-RL	3.1218E+04	-15.20	0.000
1.000	1.000		226.1	0.000	0.000	BNA3(3)_336_338_L_0				
88 D	45.81	-1.0207E-05	268.0	229.0	348.0	229.6	UL-RL	3.1218E+04	-15.40	0.000
1.000	1.000		229.0	0.000	0.000	BNA3(3)_336_338_L_0				
89 D	46.39	3.3562E-06	272.0	231.9	352.0	232.5	UL-RL	3.1218E+04	-15.60	0.000
1.000	1.000		231.9	0.000	0.000	BNA3(3)_336_338_L_0				
90 D	46.96	1.6916E-05	276.0	234.8	356.0	235.4	UL-RL	3.1218E+04	-15.80	0.000
1.000	1.000		234.8	0.000	0.000	BNA3(3)_336_338_L_0				
91 D	23.77	3.0476E-05	280.0	237.7	360.0	238.2	UL-RL	3.1218E+04	-16.00	0.000
1.000	1.000		237.7	0.000	0.000	BNA3(3)_336_338_L_0				


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|                PARATIE PLUS 2014 NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Sept23, 2015*                |
|                                                                                                                                            |
|                NewProject.BaseDesignSection_25.Nominal_60                                                                              |
|                Exe Time :29 June 2020    21:03:22                                                                                          |
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New Project

STRESS RESULTS FOR GROUP NO. 3

WallElement_30 :
 ELEMENT TYPE 2 NO.OF ELEMENTS. IN THIS GROUP 90
 CURRENT TIME IS 3.0000

WALL2D ELEMENT

EL	TA	TB	MA	MB
1	-2.16460E-10	2.16460E-10	-2.31495E-11	-2.35474E-10
2	1.3912	-1.3912	7.45217E-11	0.27824
3	3.2950	-3.2950	-0.27824	0.93724
4	5.7116	-5.7116	-0.93724	2.0796
5	8.6408	-8.6408	-2.0796	3.8077
6	12.083	-12.083	-3.8077	6.2242
7	16.037	-16.037	-6.2242	9.4316
8	20.504	-20.504	-9.4316	13.532
9	25.510	-25.510	-13.532	18.634
10	30.966	-30.966	-18.634	24.828
11	36.872	-36.872	-24.828	32.202
12	43.226	-43.226	-32.202	40.847
13	50.029	-50.029	-40.847	50.853
14	57.281	-57.281	-50.853	62.309
15	64.980	-64.980	-62.309	75.305
16	20.917	-20.917	-75.305	79.489
17	29.510	-29.510	-79.489	85.391
18	38.549	-38.549	-85.391	93.100
19	48.033	-48.033	-93.100	102.71
20	57.964	-57.964	-102.71	114.30
21	66.503	-66.503	-114.30	127.60
22	73.135	-73.135	-127.60	142.23
23	77.244	-77.244	-142.23	157.68
24	78.836	-78.836	-157.68	173.44
25	77.921	-77.921	-173.44	189.03
26	74.507	-74.507	-189.03	203.93
27	68.605	-68.605	-203.93	217.65
28	60.226	-60.226	-217.65	229.70
29	51.466	-51.466	-229.70	239.99
30	42.860	-42.860	-239.99	248.56
31	34.398	-34.398	-248.56	255.44
32	26.072	-26.072	-255.44	260.65
33	17.870	-17.870	-260.65	264.23
34	9.7830	-9.7830	-264.23	266.19
35	1.7988	-1.7988	-266.19	266.54
36	-6.0932	6.0932	-266.54	265.33
37	-13.576	13.576	-265.33	262.61
38	-20.154	20.154	-262.61	258.58
39	-25.885	25.885	-258.58	253.40
40	-30.824	30.824	-253.40	247.24
41	-35.024	35.024	-247.24	240.23
42	-38.538	38.538	-240.23	232.53
43	-41.418	41.418	-232.53	224.24
44	-43.713	43.713	-224.24	215.50
45	-45.471	45.471	-215.50	206.41
46	-46.727	46.727	-206.41	197.06
47	-47.569	47.569	-197.06	187.55
48	-48.077	48.077	-187.55	177.93
49	-48.287	48.287	-177.93	168.27
50	-48.159	48.159	-168.27	158.64
51	-47.729	47.729	-158.64	149.10
52	-47.032	47.032	-149.10	139.69
53	-46.100	46.100	-139.69	130.47
54	-44.964	44.964	-130.47	121.48
55	-43.652	43.652	-121.48	112.75
56	-42.198	42.198	-112.75	104.31
57	-40.634	40.634	-104.31	96.181
58	-38.982	38.982	-96.181	88.384
59	-37.261	37.261	-88.384	80.932
60	-35.489	35.489	-80.932	73.835
61	-33.684	33.684	-73.835	67.098
62	-31.860	31.860	-67.098	60.726
63	-30.031	30.031	-60.726	54.720
64	-28.210	28.210	-54.720	49.078
65	-26.407	26.407	-49.078	43.796
66	-24.634	24.634	-43.796	38.870
67	-22.899	22.899	-38.870	34.290
68	-21.209	21.209	-34.290	30.048
69	-19.573	19.573	-30.048	26.133
70	-17.997	17.997	-26.133	22.534

71	-16.485	16.485	-22.534	19.237
72	-15.043	15.043	-19.237	16.228
73	-13.675	13.675	-16.228	13.493
74	-12.383	12.383	-13.493	11.017
75	-11.172	11.172	-11.017	8.7824
76	-10.042	10.042	-8.7824	6.7739
77	-8.4485	8.4485	-6.7739	5.0842
78	-6.9851	6.9851	-5.0842	3.6872
79	-5.6540	5.6540	-3.6872	2.5564
80	-4.4563	4.4563	-2.5564	1.6651
81	-3.3929	3.3929	-1.6651	0.98653
82	-2.4644	2.4644	-0.98653	0.49365
83	-1.6711	1.6711	-0.49365	0.15942
84	-1.0133	1.0133	-0.15942	-4.32435E-02
85	-0.49105	0.49105	4.32435E-02	-0.14145
86	-0.10648	0.10648	0.14145	-0.16275
87	0.13833	-0.13833	0.16275	-0.13509
88	0.26436	-0.26436	0.13509	-8.22129E-02
89	0.27266	-0.27266	8.22129E-02	-2.76817E-02
90	0.13840	-0.13840	2.76817E-02	3.85469E-13

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|          PARATIE PLUS 2014 NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Sept23, 2015*          |
|                                                                                                    |
|                               NewProject.BaseDesignSection_25.Nominal_60                            |
|                               Exe Time :29 June 2020      21:03:22                                |
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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 . 4

Tieback_341 :
 ELEMENT TYPE 6 NO.OF ELEMENTS. IN THIS GROUP 1
 C U R R E N T T I M E I S 3.0000

POST-TENSION 2D-BOUNDARY ELEMENT

	EL	FORCE	d0	EDISPL	pl. eps	K	-ve limit	+ve limit	
ANCHOR	1	55.560	-6.73664E-04	-6.73664E-04	0.0000	0.0000	0.0000	0.0000	BORN NOW JUST ACTIVATED

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|                PARATIE PLUS 2014 NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Sept23, 2015*                |
|                                                                                                                                            |
|                                                                                                                                            |
|                NewProject.BaseDesignSection_25.Nominal_60                                                                              |
|                Exe Time :29 June 2020    21:03:22                                                                                          |
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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 . 5

Tieback_342 :
ELEMENT TYPE 6 NO.OF ELEMENTS. IN THIS GROUP 1
C U R R E N T T I M E I S 3.0000

POST-TENSION 2D-BOUNDARY ELEMENT

EL	FORCE	d0	EDISPL	pl. eps	K	-ve limit	+ve limit
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***** NO ONE ELEMENT ACTIVE AT CURRENT STEP *****

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ITER    0    RNORM = 0.000    RMNORM= 0.000
         RINORM=0.3543E+06    RIMNOR=0.3369E+07
         RENORM= 6602.        REMNOR=0.3081E-18    RATIO =0.1365        TOLER =0.1000E-03    NOT CONVERGED
         RFMAX = 78.84        RMMAX = 266.5
         RTSMAL=0.1000E-03    RMSMAL=0.1000E-02
         RDT =0.3543E+06      RDR =0.3369E+07
         RATIOT=0.1365        RATIO= 0.000
         MAX UN= 20.36        IEQ= 81 NODE        41 DOF    1    Y-DISPL.F
         MIN UN=-.2699E-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=0.3543E+06    RIMNOR=0.3369E+07
         RENORM= 1344.        REMNOR=0.1338E-17    RATIO =0.6158E-01    TOLER =0.1000E-03    NOT CONVERGED
         RFMAX = 78.84        RMMAX = 266.5
         RTSMAL=0.1000E-03    RMSMAL=0.1000E-02
         RDT =0.3543E+06      RDR =0.3369E+07
         RATIOT=0.6158E-01    RATIO= 0.000
         MAX UN= 8.541        IEQ= 65 NODE        33 DOF    1    Y-DISPL.F
         MIN UN=-.6968        IEQ= 179 NODE       90 DOF    1    Y-DISPL.F
         NO. OF CONTACT CONSTRAINT VIOLATIONS            0

ITER    3    RNORM = 0.000    RMNORM= 0.000
         RINORM=0.3543E+06    RIMNOR=0.3369E+07
         RENORM= 2460.        REMNOR=0.5523E-16    RATIO =0.8332E-01    TOLER =0.1000E-03    NOT CONVERGED
         RFMAX = 78.84        RMMAX = 266.5
         RTSMAL=0.1000E-03    RMSMAL=0.1000E-02
         RDT =0.3543E+06      RDR =0.3369E+07
         RATIOT=0.8332E-01    RATIO= 0.000
         MAX UN= 21.45        IEQ= 101 NODE       51 DOF    1    Y-DISPL.F
         MIN UN=-.9466        IEQ= 153 NODE       77 DOF    1    Y-DISPL.F
         NO. OF CONTACT CONSTRAINT VIOLATIONS            0

ITER    4    RNORM = 0.000    RMNORM= 0.000
         RINORM=0.3543E+06    RIMNOR=0.3369E+07
         RENORM= 262.5        REMNOR=0.4654E-16    RATIO =0.2722E-01    TOLER =0.1000E-03    NOT CONVERGED
         RFMAX = 78.84        RMMAX = 266.5
         RTSMAL=0.1000E-03    RMSMAL=0.1000E-02
         RDT =0.3543E+06      RDR =0.3369E+07
         RATIOT=0.2722E-01    RATIO= 0.000
         MAX UN= 9.321        IEQ= 121 NODE       61 DOF    1    Y-DISPL.F
         MIN UN=-.7121        IEQ= 149 NODE       75 DOF    1    Y-DISPL.F
         NO. OF CONTACT CONSTRAINT VIOLATIONS            0

ITER    5    RNORM = 0.000    RMNORM= 0.000
         RINORM=0.3543E+06    RIMNOR=0.3369E+07
         RENORM= 3.044        REMNOR=0.2613E-16    RATIO =0.2931E-02    TOLER =0.1000E-03    NOT CONVERGED
         RFMAX = 78.84        RMMAX = 266.5
         RTSMAL=0.1000E-03    RMSMAL=0.1000E-02
         RDT =0.3543E+06      RDR =0.3369E+07
         RATIOT=0.2931E-02    RATIO= 0.000
         MAX UN= 1.715        IEQ= 133 NODE       67 DOF    1    Y-DISPL.F
         MIN UN=-.1938        IEQ= 159 NODE       80 DOF    1    Y-DISPL.F
         NO. OF CONTACT CONSTRAINT VIOLATIONS            0

ITER    6    RNORM = 0.000    RMNORM= 0.000
         RINORM=0.3543E+06    RIMNOR=0.3369E+07
         RENORM=0.2174E-04    REMNOR=0.2271E-16    RATIO =0.7833E-05    TOLER =0.1000E-03    CONVERGED !
         RFMAX = 78.84        RMMAX = 266.5
         RTSMAL=0.1000E-03    RMSMAL=0.1000E-02
         RDT =0.3543E+06      RDR =0.3369E+07
         RATIOT=0.7833E-05    RATIO= 0.000

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MAX UN=0.3273E-07 IEQ= 11 NODE 6 DOF 1 Y-DISPL.F
MIN UN=-.4269E-02 IEQ= 165 NODE 83 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

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|                PARATIE PLUS 2014 NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Sept23, 2015*                |
|                                                                                                                                            |
|                                                                                                                                            |
|                NewProject.BaseDesignSection_25.Nominal_60                                                                              |
|                Exe Time :29 June 2020    21:03:22                                                                                          |
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New Project
SOLUTION REACHED USING 6 ITERATIONS ON 40

PRINT OUT FOR TIME STEP 4 (AT TIME 4.000)

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

	Y-DISPL.F (02)	X-ROT. F (04)	(
1	7.7898152E-02	-6.1604664E-03	
2	7.6666059E-02	-6.1604664E-03	
3	7.5433966E-02	-6.1604588E-03	
4	7.4201878E-02	-6.1604209E-03	
5	7.2969803E-02	-6.1603148E-03	
6	7.1737759E-02	-6.1600873E-03	
7	7.0505779E-02	-6.1596704E-03	
8	6.9273909E-02	-6.1589806E-03	
9	6.8042212E-02	-6.1579193E-03	
10	6.6810774E-02	-6.1563729E-03	
11	6.5579704E-02	-6.1542125E-03	
12	6.4349139E-02	-6.1512939E-03	
13	6.3119247E-02	-6.1474582E-03	
14	6.1890229E-02	-6.1425308E-03	
15	6.0662321E-02	-6.1363223E-03	
16	5.9435800E-02	-6.1286280E-03	
17	5.8210870E-02	-6.1209425E-03	
18	5.6987324E-02	-6.1147452E-03	
19	5.5764889E-02	-6.1097860E-03	
20	5.4543344E-02	-6.1057995E-03	
21	5.3322523E-02	-6.1025052E-03	
22	5.2102312E-02	-6.0996655E-03	
23	5.0882639E-02	-6.0970876E-03	
24	4.9663473E-02	-6.0945690E-03	
25	4.8444822E-02	-6.0918968E-03	
26	4.7226739E-02	-6.0888479E-03	
27	4.6009317E-02	-6.0851892E-03	
28	4.4792714E-02	-6.0806773E-03	
29	4.3577120E-02	-6.0750586E-03	
30	4.2362782E-02	-6.0680695E-03	
31	4.1150008E-02	-6.0594360E-03	
32	3.9939143E-02	-6.0488741E-03	
33	3.8730607E-02	-6.0360896E-03	
34	3.7524875E-02	-6.0207780E-03	
35	3.6322485E-02	-6.0026247E-03	
36	3.5124036E-02	-5.9813051E-03	
37	3.3930196E-02	-5.9564841E-03	
38	3.2741699E-02	-5.9278167E-03	
39	3.1559356E-02	-5.8949478E-03	
40	3.0384030E-02	-5.8575115E-03	
41	2.9216681E-02	-5.8151324E-03	
42	2.8058333E-02	-5.7674246E-03	
43	2.6910088E-02	-5.7140541E-03	
44	2.5773111E-02	-5.6547780E-03	
45	2.4648588E-02	-5.5894218E-03	
46	2.3537754E-02	-5.5178809E-03	
47	2.2441850E-02	-5.4401194E-03	
48	2.1362119E-02	-5.3561704E-03	
49	2.0299788E-02	-5.2661360E-03	
50	1.9256064E-02	-5.1701880E-03	
51	1.8232096E-02	-5.0685655E-03	
52	1.7228995E-02	-4.9615783E-03	
53	1.6247797E-02	-4.8496046E-03	
54	1.5289456E-02	-4.7330917E-03	
55	1.4354833E-02	-4.6125565E-03	
56	1.3444667E-02	-4.4885831E-03	
57	1.2559586E-02	-4.3618265E-03	
58	1.1700075E-02	-4.2329957E-03	
59	1.0866478E-02	-4.1028062E-03	
60	1.0059001E-02	-3.9719464E-03	
61	9.2777043E-03	-3.8410763E-03	
62	8.5225105E-03	-3.7108295E-03	
63	7.7933066E-03	-3.5818304E-03	
64	7.0896937E-03	-3.4546513E-03	
65	6.4112866E-03	-3.3298648E-03	
66	5.7575519E-03	-3.2080160E-03	
67	5.1278494E-03	-3.0896295E-03	
68	4.5214356E-03	-2.9752107E-03	
69	3.9374681E-03	-2.8652466E-03	
70	3.3750100E-03	-2.7601869E-03	
71	2.8330403E-03	-2.6604224E-03	
72	2.3104660E-03	-2.5662832E-03	
73	1.8061339E-03	-2.4780415E-03	
74	1.3188419E-03	-2.3959135E-03	

75 8.4734999E-04 -2.3200631E-03
76 3.9039034E-04 -2.2506071E-03
77 -5.3323960E-05 -2.1876178E-03
78 -4.8508960E-04 -2.1311206E-03
79 -9.0620250E-04 -2.0810778E-03
80 -1.3179435E-03 -2.0373763E-03
81 -1.7215633E-03 -1.9998288E-03
82 -2.1182682E-03 -1.9681799E-03
83 -2.5092072E-03 -1.9421098E-03
84 -2.8954586E-03 -1.9212359E-03
85 -3.2780184E-03 -1.9051146E-03
86 -3.6577877E-03 -1.8932428E-03
87 -4.0355613E-03 -1.8850587E-03
88 -4.4120157E-03 -1.8799422E-03
89 -4.7876975E-03 -1.8772146E-03
90 -5.1630116E-03 -1.8761384E-03
91 -5.5382286E-03 -1.8759172E-03

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|                PARATIE PLUS 2014 NLS ENGINE RELEASE  2016  FULL VERSION  *Build date: Sept23, 2015*                |
|                                                                                                                                            |
|                NewProject.BaseDesignSection_25.Nominal_60                                                                              |
|                Exe Time :29 June 2020    21:03:22                                                                                          |
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New Project

STRESS RESULTS FOR GROUP NO. 1

0_L :
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 91
CURRENT TIME IS 4.0000

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 LAYER	MAX-H-P	STATE	STIFFNESS	Z-LEVEL	PORE	E FAC-
1 D	0.000	-7.7898E-02	0.000	0.000	0.000	0.000	ACTIVE	0.000	2.000	0.000	
1.000	1.000	0.000	0.000	0.000	FRANA_334_8_L_0						
2 D	0.4880	-7.6666E-02	4.000	2.440	4.000	6.956	ACTIVE	0.000	1.800	0.000	
1.000	1.000	2.440	0.000	0.000	FRANA_334_8_L_0						
3 D	0.9760	-7.5434E-02	8.000	4.880	8.000	9.519	ACTIVE	0.000	1.600	0.000	
1.000	1.000	4.880	0.000	0.000	FRANA_334_8_L_0						
4 D	1.464	-7.4202E-02	12.00	7.320	12.00	12.08	ACTIVE	0.000	1.400	0.000	
1.000	1.000	7.320	0.000	0.000	FRANA_334_8_L_0						
5 D	1.952	-7.2970E-02	16.00	9.760	16.00	14.65	ACTIVE	0.000	1.200	0.000	
1.000	1.000	9.760	0.000	0.000	FRANA_334_8_L_0						
6 D	2.440	-7.1738E-02	20.00	12.20	20.00	17.21	ACTIVE	0.000	1.000	0.000	
1.000	1.000	12.20	0.000	0.000	FRANA_334_8_L_0						
7 D	2.928	-7.0506E-02	24.00	14.64	24.00	19.77	ACTIVE	0.000	0.8000	0.000	
1.000	1.000	14.64	0.000	0.000	FRANA_334_8_L_0						
8 D	3.416	-6.9274E-02	28.00	17.08	28.00	22.33	ACTIVE	0.000	0.6000	0.000	
1.000	1.000	17.08	0.000	0.000	FRANA_334_8_L_0						
9 D	3.904	-6.8042E-02	32.00	19.52	32.00	24.90	ACTIVE	0.000	0.4000	0.000	
1.000	1.000	19.52	0.000	0.000	FRANA_334_8_L_0						
10 D	4.392	-6.6811E-02	36.00	21.96	36.00	27.76	ACTIVE	0.000	0.2000	0.000	
1.000	1.000	21.96	0.000	0.000	FRANA_334_8_L_0						
11 D	4.880	-6.5580E-02	40.00	24.40	40.00	30.84	ACTIVE	0.000	-1.4901E-07	0.000	
1.000	1.000	24.40	0.000	0.000	FRANA_334_8_L_0						
12 D	5.368	-6.4349E-02	44.00	26.84	44.00	33.92	ACTIVE	0.000	-0.2000	0.000	
1.000	1.000	26.84	0.000	0.000	FRANA_334_8_L_0						
13 D	5.856	-6.3119E-02	48.00	29.28	48.00	37.01	ACTIVE	0.000	-0.4000	0.000	
1.000	1.000	29.28	0.000	0.000	FRANA_334_8_L_0						
14 D	6.344	-6.1890E-02	52.00	31.72	52.00	40.09	ACTIVE	0.000	-0.6000	0.000	
1.000	1.000	31.72	0.000	0.000	FRANA_334_8_L_0						
15 D	6.832	-6.0662E-02	56.00	34.16	56.00	43.17	ACTIVE	0.000	-0.8000	0.000	
1.000	1.000	34.16	0.000	0.000	FRANA_334_8_L_0						
16 D	7.321	-5.9436E-02	60.00	36.60	60.00	46.25	ACTIVE	0.000	-1.000	0.000	
1.000	1.000	36.60	0.000	0.000	FRANA_334_8_L_0						
17 D	7.809	-5.8211E-02	64.01	39.04	64.01	49.34	ACTIVE	0.000	-1.200	0.000	
1.000	1.000	39.04	0.000	0.000	FRANA_334_8_L_0						
18 D	8.297	-5.6987E-02	68.01	41.48	68.01	52.42	ACTIVE	0.000	-1.400	0.000	
1.000	1.000	41.48	0.000	0.000	FRANA_334_8_L_0						
19 D	8.785	-5.5765E-02	72.01	43.92	72.01	55.50	ACTIVE	0.000	-1.600	0.000	
1.000	1.000	43.92	0.000	0.000	FRANA_334_8_L_0						
20 D	9.273	-5.4543E-02	76.01	46.37	76.01	58.58	ACTIVE	0.000	-1.800	0.000	
1.000	1.000	46.37	0.000	0.000	FRANA_334_8_L_0						
21 D	6.033	-5.3323E-02	80.01	30.17	80.01	47.50	ACTIVE	0.000	-2.000	0.000	
1.000	1.000	30.17	0.000	0.000	BNA3(2)_335_337_L_0						
22 D	6.361	-5.2102E-02	84.01	31.80	84.01	49.88	ACTIVE	0.000	-2.200	0.000	
1.000	1.000	31.80	0.000	0.000	BNA3(2)_335_337_L_0						
23 D	6.688	-5.0883E-02	88.01	33.44	88.01	52.25	ACTIVE	0.000	-2.400	0.000	
1.000	1.000	33.44	0.000	0.000	BNA3(2)_335_337_L_0						
24 D	7.015	-4.9663E-02	92.02	35.08	92.02	54.62	ACTIVE	0.000	-2.600	0.000	
1.000	1.000	35.08	0.000	0.000	BNA3(2)_335_337_L_0						
25 D	7.343	-4.8445E-02	96.02	36.71	96.02	56.99	ACTIVE	0.000	-2.800	0.000	
1.000	1.000	36.71	0.000	0.000	BNA3(2)_335_337_L_0						
26 D	7.670	-4.7227E-02	100.0	38.35	100.0	59.36	ACTIVE	0.000	-3.000	0.000	
1.000	1.000	38.35	0.000	0.000	BNA3(2)_335_337_L_0						
27 D	7.997	-4.6009E-02	104.0	39.99	104.0	61.74	ACTIVE	0.000	-3.200	0.000	
1.000	1.000	39.99	0.000	0.000	BNA3(2)_335_337_L_0						
28 D	8.325	-4.4793E-02	108.0	41.62	108.0	64.11	ACTIVE	0.000	-3.400	0.000	
1.000	1.000	41.62	0.000	0.000	BNA3(2)_335_337_L_0						
29 D	8.652	-4.3577E-02	112.0	43.26	112.0	66.48	ACTIVE	0.000	-3.600	0.000	
1.000	1.000	43.26	0.000	0.000	BNA3(2)_335_337_L_0						
30 D	8.980	-4.2363E-02	116.0	44.90	116.0	68.85	ACTIVE	0.000	-3.800	0.000	
1.000	1.000	44.90	0.000	0.000	BNA3(2)_335_337_L_0						
31 D	9.307	-4.1150E-02	120.0	46.54	120.0	71.22	ACTIVE	0.000	-4.000	0.000	
1.000	1.000	46.54	0.000	0.000	BNA3(2)_335_337_L_0						
32 D	9.635	-3.9939E-02	124.0	48.17	124.0	73.59	ACTIVE	0.000	-4.200	0.000	
1.000	1.000	48.17	0.000	0.000	BNA3(2)_335_337_L_0						
33 D	9.962	-3.8731E-02	128.0	49.81	128.0	75.96	ACTIVE	0.000	-4.400	0.000	
1.000	1.000	49.81	0.000	0.000	BNA3(2)_335_337_L_0						

34 D	10.29	-3.7525E-02	132.0	51.45	132.0	78.33	ACTIVE	0.000	-4.600	0.000
1.000	1.000	51.45	0.000	0.000	BNA3(2)_335_337_L_0					
35 D	10.62	-3.6322E-02	136.0	53.09	136.0	80.69	ACTIVE	0.000	-4.800	0.000
1.000	1.000	53.09	0.000	0.000	BNA3(2)_335_337_L_0					
36 D	10.94	-3.5124E-02	140.1	54.72	140.1	83.06	ACTIVE	0.000	-5.000	0.000
1.000	1.000	54.72	0.000	0.000	BNA3(2)_335_337_L_0					
37 D	11.27	-3.3930E-02	144.1	56.36	144.1	85.43	ACTIVE	0.000	-5.200	0.000
1.000	1.000	56.36	0.000	0.000	BNA3(2)_335_337_L_0					
38 D	11.60	-3.2742E-02	148.1	58.00	148.1	87.80	ACTIVE	0.000	-5.400	0.000
1.000	1.000	58.00	0.000	0.000	BNA3(2)_335_337_L_0					
39 D	11.93	-3.1559E-02	152.1	59.64	152.1	90.16	ACTIVE	0.000	-5.600	0.000
1.000	1.000	59.64	0.000	0.000	BNA3(2)_335_337_L_0					
40 D	12.25	-3.0384E-02	156.1	61.27	156.1	92.53	ACTIVE	0.000	-5.800	0.000
1.000	1.000	61.27	0.000	0.000	BNA3(2)_335_337_L_0					
41 D	12.58	-2.9217E-02	160.1	62.91	160.1	94.89	ACTIVE	0.000	-6.000	0.000
1.000	1.000	62.91	0.000	0.000	BNA3(2)_335_337_L_0					
42 D	12.91	-2.8058E-02	164.1	64.55	164.1	97.26	ACTIVE	0.000	-6.200	0.000
1.000	1.000	64.55	0.000	0.000	BNA3(2)_335_337_L_0					
43 D	13.24	-2.6910E-02	168.1	66.19	168.1	99.62	ACTIVE	0.000	-6.400	0.000
1.000	1.000	66.19	0.000	0.000	BNA3(2)_335_337_L_0					
44 D	13.57	-2.5773E-02	172.1	67.83	172.1	102.0	ACTIVE	0.000	-6.600	0.000
1.000	1.000	67.83	0.000	0.000	BNA3(2)_335_337_L_0					
45 D	13.89	-2.4649E-02	176.1	69.47	176.1	104.3	ACTIVE	0.000	-6.800	0.000
1.000	1.000	69.47	0.000	0.000	BNA3(2)_335_337_L_0					
46 D	14.22	-2.3538E-02	180.1	71.10	180.1	106.7	ACTIVE	0.000	-7.000	0.000
1.000	1.000	71.10	0.000	0.000	BNA3(2)_335_337_L_0					
47 D	14.55	-2.2442E-02	184.1	72.74	184.1	109.4	ACTIVE	0.000	-7.200	0.000
1.000	1.000	72.74	0.000	0.000	BNA3(2)_335_337_L_0					
48 D	14.88	-2.1362E-02	188.1	74.38	188.1	112.4	ACTIVE	0.000	-7.400	0.000
1.000	1.000	74.38	0.000	0.000	BNA3(2)_335_337_L_0					
49 D	15.20	-2.0300E-02	192.1	76.02	192.1	115.4	ACTIVE	0.000	-7.600	0.000
1.000	1.000	76.02	0.000	0.000	BNA3(2)_335_337_L_0					
50 D	15.53	-1.9256E-02	196.1	77.66	196.1	118.2	ACTIVE	0.000	-7.800	0.000
1.000	1.000	77.66	0.000	0.000	BNA3(2)_335_337_L_0					
51 D	15.86	-1.8232E-02	200.1	79.30	200.1	121.0	ACTIVE	0.000	-8.000	0.000
1.000	1.000	79.30	0.000	0.000	BNA3(2)_335_337_L_0					
52 D	16.19	-1.7229E-02	204.1	80.94	204.1	123.8	ACTIVE	0.000	-8.200	0.000
1.000	1.000	80.94	0.000	0.000	BNA3(2)_335_337_L_0					
53 D	16.52	-1.6248E-02	208.2	82.58	208.2	126.5	ACTIVE	0.000	-8.400	0.000
1.000	1.000	82.58	0.000	0.000	BNA3(2)_335_337_L_0					
54 D	16.84	-1.5289E-02	212.2	84.22	212.2	129.1	ACTIVE	0.000	-8.600	0.000
1.000	1.000	84.22	0.000	0.000	BNA3(2)_335_337_L_0					
55 D	17.17	-1.4355E-02	216.2	85.86	216.2	131.7	ACTIVE	0.000	-8.800	0.000
1.000	1.000	85.86	0.000	0.000	BNA3(2)_335_337_L_0					
56 D	17.50	-1.3445E-02	220.2	87.50	220.2	134.2	ACTIVE	0.000	-9.000	0.000
1.000	1.000	87.50	0.000	0.000	BNA3(2)_335_337_L_0					
57 D	17.83	-1.2560E-02	224.2	89.14	224.2	136.8	ACTIVE	0.000	-9.200	0.000
1.000	1.000	89.14	0.000	0.000	BNA3(2)_335_337_L_0					
58 D	18.16	-1.1700E-02	228.2	90.78	228.2	139.4	ACTIVE	0.000	-9.400	0.000
1.000	1.000	90.78	0.000	0.000	BNA3(2)_335_337_L_0					
59 D	18.48	-1.0866E-02	232.2	92.41	232.2	141.9	ACTIVE	0.000	-9.600	0.000
1.000	1.000	92.41	0.000	0.000	BNA3(2)_335_337_L_0					
60 D	18.81	-1.0059E-02	236.2	94.05	236.2	144.3	ACTIVE	0.000	-9.800	0.000
1.000	1.000	94.05	0.000	0.000	BNA3(2)_335_337_L_0					
61 D	19.14	-9.2777E-03	240.2	95.69	240.2	146.8	ACTIVE	0.000	-10.000	0.000
1.000	1.000	95.69	0.000	0.000	BNA3(2)_335_337_L_0					
62 D	19.47	-8.5225E-03	244.2	97.34	244.2	149.1	ACTIVE	0.000	-10.200	0.000
1.000	1.000	97.34	0.000	0.000	BNA3(2)_335_337_L_0					
63 D	19.80	-7.7933E-03	248.2	98.98	248.2	151.5	ACTIVE	0.000	-10.400	0.000
1.000	1.000	98.98	0.000	0.000	BNA3(2)_335_337_L_0					
64 D	20.12	-7.0897E-03	252.3	100.6	252.3	153.8	ACTIVE	0.000	-10.600	0.000
1.000	1.000	100.6	0.000	0.000	BNA3(2)_335_337_L_0					
65 D	20.45	-6.4113E-03	256.3	102.3	256.3	156.1	ACTIVE	0.000	-10.800	0.000
1.000	1.000	102.3	0.000	0.000	BNA3(2)_335_337_L_0					
66 D	20.78	-5.7576E-03	260.3	103.9	260.3	158.3	ACTIVE	0.000	-11.000	0.000
1.000	1.000	103.9	0.000	0.000	BNA3(2)_335_337_L_0					
67 D	21.11	-5.1278E-03	264.3	105.5	264.3	160.6	ACTIVE	0.000	-11.200	0.000
1.000	1.000	105.5	0.000	0.000	BNA3(2)_335_337_L_0					
68 D	21.44	-4.5214E-03	268.3	107.2	268.3	162.8	ACTIVE	0.000	-11.400	0.000
1.000	1.000	107.2	0.000	0.000	BNA3(2)_335_337_L_0					
69 D	23.04	-3.9375E-03	272.3	115.2	272.3	165.0	UL-RL	1.1727E+04	-11.60	0.000
1.000	1.000	115.2	0.000	0.000	BNA3(2)_335_337_L_0					
70 D	24.83	-3.3750E-03	276.3	124.1	276.3	167.2	UL-RL	1.1727E+04	-11.80	0.000
1.000	1.000	124.1	0.000	0.000	BNA3(2)_335_337_L_0					
71 D	26.56	-2.8330E-03	280.3	132.8	280.3	169.4	UL-RL	1.1727E+04	-12.00	0.000
1.000	1.000	132.8	0.000	0.000	BNA3(2)_335_337_L_0					
72 D	28.26	-2.3105E-03	284.4	141.3	284.4	171.5	UL-RL	1.1727E+04	-12.20	0.000
1.000	1.000	141.3	0.000	0.000	BNA3(2)_335_337_L_0					
73 D	29.91	-1.8061E-03	288.4	149.5	288.4	173.7	UL-RL	1.1727E+04	-12.40	0.000
1.000	1.000	149.5	0.000	0.000	BNA3(2)_335_337_L_0					
74 D	31.39	-1.3188E-03	292.4	156.9	292.4	176.9	UL-RL	1.1727E+04	-12.60	0.000
1.000	1.000	156.9	0.000	0.000	BNA3(2)_335_337_L_0					
75 D	32.76	-8.4735E-04	296.4	163.8	296.4	180.7	UL-RL	1.1727E+04	-12.80	0.000
1.000	1.000	163.8	0.000	0.000	BNA3(2)_335_337_L_0					
76 D	34.12	-3.9039E-04	300.4	170.6	300.4	184.3	UL-RL	1.1727E+04	-13.00	0.000
1.000	1.000	170.6	0.000	0.000	BNA3(2)_335_337_L_0					
77 D	39.45	5.3324E-05	304.4	197.3	304.4	212.1	UL-RL	1.6217E+04	-13.20	0.000
1.000	1.000	197.3	0.000	0.000	BNA3(3)_336_338_L_0					
78 D	41.13	4.8509E-04	308.4	205.7	308.4	216.4	UL-RL	1.6217E+04	-13.40	0.000
1.000	1.000	205.7	0.000	0.000	BNA3(3)_336_338_L_0					
79 D	42.79	9.0620E-04	312.4	213.9	312.4	220.6	UL-RL	1.6217E+04	-13.60	0.000
1.000	1.000	213.9	0.000	0.000	BNA3(3)_336_338_L_0					

80 D	44.41	1.3179E-03	316.5	222.1	316.5	224.8	UL-RL	1.6217E+04	-13.80	0.000
1.000	1.000	222.1	0.000	0.000	BNA3(3)_336_338_L_0					
81 D	45.79	1.7216E-03	320.5	229.0	320.5	230.8	UL-RL	1.6217E+04	-14.00	0.000
1.000	1.000	229.0	0.000	0.000	BNA3(3)_336_338_L_0					
82 D	47.16	2.1183E-03	324.5	235.8	324.5	236.7	UL-RL	1.6217E+04	-14.20	0.000
1.000	1.000	235.8	0.000	0.000	BNA3(3)_336_338_L_0					
83 D	48.52	2.5092E-03	328.5	242.6	328.5	242.6	UL-RL	1.6217E+04	-14.40	0.000
1.000	1.000	242.6	0.000	0.000	BNA3(3)_336_338_L_0					
84 D	49.80	2.8955E-03	332.5	249.0	332.5	249.0	UL-RL	1.6217E+04	-14.60	0.000
1.000	1.000	249.0	0.000	0.000	BNA3(3)_336_338_L_0					
85 D	51.07	3.2780E-03	336.5	255.4	336.5	255.4	V-C	1.0136E+04	-14.80	0.000
1.000	1.000	255.4	0.000	0.000	BNA3(3)_336_338_L_0					
86 D	52.34	3.6578E-03	340.5	261.7	340.5	261.7	V-C	1.0136E+04	-15.00	0.000
1.000	1.000	261.7	0.000	0.000	BNA3(3)_336_338_L_0					
87 D	53.60	4.0356E-03	344.6	268.0	344.6	268.0	V-C	1.0136E+04	-15.20	0.000
1.000	1.000	268.0	0.000	0.000	BNA3(3)_336_338_L_0					
88 D	54.86	4.4120E-03	348.6	274.3	348.6	274.3	V-C	1.0136E+04	-15.40	0.000
1.000	1.000	274.3	0.000	0.000	BNA3(3)_336_338_L_0					
89 D	56.11	4.7877E-03	352.6	280.6	352.6	280.6	V-C	1.0136E+04	-15.60	0.000
1.000	1.000	280.6	0.000	0.000	BNA3(3)_336_338_L_0					
90 D	57.37	5.1630E-03	356.6	286.9	356.6	286.9	V-C	1.0136E+04	-15.80	0.000
1.000	1.000	286.9	0.000	0.000	BNA3(3)_336_338_L_0					
91 D	29.31	5.5382E-03	360.6	293.1	360.6	293.1	V-C	1.0136E+04	-16.00	0.000
1.000	1.000	293.1	0.000	0.000	BNA3(3)_336_338_L_0					

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|                PARATIE PLUS 2014 NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Sept23, 2015*                |
|                                                                                                                    |
|                NewProject.BaseDesignSection_25.Nominal_60                                                         |
|                Exe Time :29 June 2020      21:03:22                                                                |
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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 91
CURRENT TIME IS 4.0000

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 LAYER	MAX-H-P	STATE	STIFFNESS	Z-LEVEL	PORE	E FAC-
1	0.000	--	--	--	--	--	REMOVED	--	2.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
2	0.000	--	--	--	--	--	REMOVED	--	1.800	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
3	0.000	--	--	--	--	--	REMOVED	--	1.600	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
4	0.000	--	--	--	--	--	REMOVED	--	1.400	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
5	0.000	--	--	--	--	--	REMOVED	--	1.200	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
6	0.000	--	--	--	--	--	REMOVED	--	1.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
7	0.000	--	--	--	--	--	REMOVED	--	0.8000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
8	0.000	--	--	--	--	--	REMOVED	--	0.6000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
9	0.000	--	--	--	--	--	REMOVED	--	0.4000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
10	0.000	--	--	--	--	--	REMOVED	--	0.2000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
11	0.000	--	--	--	--	--	REMOVED	--	-1.4901E-07	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
12	0.000	--	--	--	--	--	REMOVED	--	-0.2000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
13	0.000	--	--	--	--	--	REMOVED	--	-0.4000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
14	0.000	--	--	--	--	--	REMOVED	--	-0.6000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
15	0.000	--	--	--	--	--	REMOVED	--	-0.8000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
16	0.000	--	--	--	--	--	REMOVED	--	-1.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
17	0.000	--	--	--	--	--	REMOVED	--	-1.200	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
18	0.000	--	--	--	--	--	REMOVED	--	-1.400	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
19	0.000	--	--	--	--	--	REMOVED	--	-1.600	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
20	0.000	--	--	--	--	--	REMOVED	--	-1.800	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
21	0.000	--	--	--	--	--	REMOVED	--	-2.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
22	0.000	--	--	--	--	--	REMOVED	--	-2.200	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
23	0.000	--	--	--	--	--	REMOVED	--	-2.400	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
24	0.000	--	--	--	--	--	REMOVED	--	-2.600	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
25	0.000	--	--	--	--	--	REMOVED	--	-2.800	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
26	0.000	--	--	--	--	--	REMOVED	--	-3.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
27	0.000	--	--	--	--	--	REMOVED	--	-3.200	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
28	0.000	--	--	--	--	--	REMOVED	--	-3.400	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
29	0.000	--	--	--	--	--	REMOVED	--	-3.600	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
30	0.000	--	--	--	--	--	REMOVED	--	-3.800	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
31	0.000	--	--	--	--	--	REMOVED	--	-4.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
32	0.000	--	--	--	--	--	REMOVED	--	-4.200	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
33	0.000	--	--	--	--	--	REMOVED	--	-4.400	0.000	
1.000	1.000	0.000	0.000	0.000	not available						

34	0.000	--	--	--	--	--	REMOVED	--	-4.600	0.000
1.000	1.000	0.000	0.000	0.000	0.000	not available				
35	0.000	--	--	--	--	--	REMOVED	--	-4.800	0.000
1.000	1.000	0.000	0.000	0.000	0.000	not available				
36	0.000	--	--	--	--	--	REMOVED	--	-5.000	0.000
1.000	1.000	0.000	0.000	0.000	0.000	not available				
37	0.000	--	--	--	--	--	REMOVED	--	-5.200	0.000
1.000	1.000	0.000	0.000	0.000	0.000	not available				
38	0.000	--	--	--	--	--	REMOVED	--	-5.400	0.000
1.000	1.000	0.000	0.000	0.000	0.000	not available				
39	0.000	--	--	--	--	--	REMOVED	--	-5.600	0.000
1.000	1.000	0.000	0.000	0.000	0.000	not available				
40	0.000	--	--	--	--	--	REMOVED	--	-5.800	0.000
1.000	1.000	0.000	0.000	0.000	0.000	not available				
41	0.000	--	--	--	--	--	REMOVED	--	-6.000	0.000
1.000	1.000	0.000	0.000	0.000	0.000	not available				
42 D	3.978	2.8058E-02	4.000	19.89	164.0	103.6	PASSIVE	0.000	-6.200	0.000
1.000	1.000	19.89	0.000	0.000	BNA3(2)_335_337_L_0					
43 D	6.527	2.6910E-02	8.000	32.64	168.0	104.7	PASSIVE	0.000	-6.400	0.000
1.000	1.000	32.64	0.000	0.000	BNA3(2)_335_337_L_0					
44 D	9.077	2.5773E-02	12.00	45.38	172.0	106.0	PASSIVE	0.000	-6.600	0.000
1.000	1.000	45.38	0.000	0.000	BNA3(2)_335_337_L_0					
45 D	11.63	2.4649E-02	16.00	58.13	176.0	107.3	PASSIVE	0.000	-6.800	0.000
1.000	1.000	58.13	0.000	0.000	BNA3(2)_335_337_L_0					
46 D	14.18	2.3538E-02	20.00	70.88	180.0	108.8	PASSIVE	0.000	-7.000	0.000
1.000	1.000	70.88	0.000	0.000	BNA3(2)_335_337_L_0					
47 D	16.73	2.2442E-02	24.00	83.63	184.0	110.4	PASSIVE	0.000	-7.200	0.000
1.000	1.000	83.63	0.000	0.000	BNA3(2)_335_337_L_0					
48 D	19.28	2.1362E-02	28.00	96.38	188.0	112.1	PASSIVE	0.000	-7.400	0.000
1.000	1.000	96.38	0.000	0.000	BNA3(2)_335_337_L_0					
49 D	21.82	2.0300E-02	32.00	109.1	192.0	113.8	PASSIVE	0.000	-7.600	0.000
1.000	1.000	109.1	0.000	0.000	BNA3(2)_335_337_L_0					
50 D	24.37	1.9256E-02	36.00	121.9	196.0	121.9	PASSIVE	0.000	-7.800	0.000
1.000	1.000	121.9	0.000	0.000	BNA3(2)_335_337_L_0					
51 D	26.92	1.8232E-02	40.00	134.6	200.0	134.6	PASSIVE	0.000	-8.000	0.000
1.000	1.000	134.6	0.000	0.000	BNA3(2)_335_337_L_0					
52 D	29.47	1.7229E-02	44.00	147.4	204.0	147.4	PASSIVE	0.000	-8.200	0.000
1.000	1.000	147.4	0.000	0.000	BNA3(2)_335_337_L_0					
53 D	32.02	1.6248E-02	48.00	160.1	208.0	160.1	PASSIVE	0.000	-8.400	0.000
1.000	1.000	160.1	0.000	0.000	BNA3(2)_335_337_L_0					
54 D	34.57	1.5289E-02	52.00	172.9	212.0	172.9	PASSIVE	0.000	-8.600	0.000
1.000	1.000	172.9	0.000	0.000	BNA3(2)_335_337_L_0					
55 D	37.12	1.4355E-02	56.00	185.6	216.0	185.6	PASSIVE	0.000	-8.800	0.000
1.000	1.000	185.6	0.000	0.000	BNA3(2)_335_337_L_0					
56 D	39.67	1.3445E-02	60.00	198.4	220.0	198.4	PASSIVE	0.000	-9.000	0.000
1.000	1.000	198.4	0.000	0.000	BNA3(2)_335_337_L_0					
57 D	41.30	1.2560E-02	64.00	206.5	224.0	206.5	V-C	5996.	-9.200	0.000
1.000	1.000	206.5	0.000	0.000	BNA3(2)_335_337_L_0					
58 D	40.73	1.1700E-02	68.00	203.6	228.0	203.6	V-C	5996.	-9.400	0.000
1.000	1.000	203.6	0.000	0.000	BNA3(2)_335_337_L_0					
59 D	40.19	1.0866E-02	72.00	200.9	232.0	200.9	V-C	5996.	-9.600	0.000
1.000	1.000	200.9	0.000	0.000	BNA3(2)_335_337_L_0					
60 D	39.68	1.0059E-02	76.00	198.4	236.0	198.4	V-C	5996.	-9.800	0.000
1.000	1.000	198.4	0.000	0.000	BNA3(2)_335_337_L_0					
61 D	39.21	9.2777E-03	80.00	196.1	240.0	196.1	V-C	5996.	-10.000	0.000
1.000	1.000	196.1	0.000	0.000	BNA3(2)_335_337_L_0					
62 D	38.77	8.5225E-03	84.00	193.9	244.0	193.9	V-C	5996.	-10.200	0.000
1.000	1.000	193.9	0.000	0.000	BNA3(2)_335_337_L_0					
63 D	38.37	7.7933E-03	88.00	191.8	248.0	191.8	V-C	5996.	-10.400	0.000
1.000	1.000	191.8	0.000	0.000	BNA3(2)_335_337_L_0					
64 D	38.00	7.0897E-03	92.00	190.0	252.0	190.0	V-C	5996.	-10.600	0.000
1.000	1.000	190.0	0.000	0.000	BNA3(2)_335_337_L_0					
65 D	37.66	6.4113E-03	96.00	188.3	256.0	188.3	V-C	5996.	-10.800	0.000
1.000	1.000	188.3	0.000	0.000	BNA3(2)_335_337_L_0					
66 D	37.35	5.7576E-03	100.0	186.7	260.0	186.7	V-C	5996.	-11.000	0.000
1.000	1.000	186.7	0.000	0.000	BNA3(2)_335_337_L_0					
67 D	37.07	5.1278E-03	104.0	185.4	264.0	185.4	V-C	5996.	-11.200	0.000
1.000	1.000	185.4	0.000	0.000	BNA3(2)_335_337_L_0					
68 D	36.82	4.5214E-03	108.0	184.1	268.0	184.1	V-C	5996.	-11.400	0.000
1.000	1.000	184.1	0.000	0.000	BNA3(2)_335_337_L_0					
69 D	36.60	3.9375E-03	112.0	183.0	272.0	183.0	V-C	5996.	-11.600	0.000
1.000	1.000	183.0	0.000	0.000	BNA3(2)_335_337_L_0					
70 D	36.41	3.3750E-03	116.0	182.1	276.0	182.1	V-C	5996.	-11.800	0.000
1.000	1.000	182.1	0.000	0.000	BNA3(2)_335_337_L_0					
71 D	36.24	2.8330E-03	120.0	181.2	280.0	181.2	V-C	5996.	-12.000	0.000
1.000	1.000	181.2	0.000	0.000	BNA3(2)_335_337_L_0					
72 D	36.10	2.3105E-03	124.0	180.5	284.0	180.5	V-C	5996.	-12.200	0.000
1.000	1.000	180.5	0.000	0.000	BNA3(2)_335_337_L_0					
73 D	35.98	1.8061E-03	128.0	179.9	288.0	179.9	V-C	5996.	-12.400	0.000
1.000	1.000	179.9	0.000	0.000	BNA3(2)_335_337_L_0					
74 D	35.88	1.3188E-03	132.0	179.4	292.0	179.4	V-C	5996.	-12.600	0.000
1.000	1.000	179.4	0.000	0.000	BNA3(2)_335_337_L_0					
75 D	35.79	8.4735E-04	136.0	179.0	296.0	179.0	V-C	5996.	-12.800	0.000
1.000	1.000	179.0	0.000	0.000	BNA3(2)_335_337_L_0					
76 D	35.73	3.9039E-04	140.0	178.7	300.0	178.7	V-C	5996.	-13.000	0.000
1.000	1.000	178.7	0.000	0.000	BNA3(2)_335_337_L_0					
77 D	39.47	-5.3324E-05	144.0	197.4	304.0	200.7	UL-RL	1.5609E+04	-13.200	0.000
1.000	1.000	197.4	0.000	0.000	BNA3(3)_336_338_L_0					
78 D	38.69	-4.8509E-04	148.0	193.4	308.0	203.3	UL-RL	1.5609E+04	-13.400	0.000
1.000	1.000	193.4	0.000	0.000	BNA3(3)_336_338_L_0					
79 D	37.94	-9.0620E-04	152.0	189.7	312.0	205.9	UL-RL	1.5609E+04	-13.600	0.000
1.000	1.000	189.7	0.000	0.000	BNA3(3)_336_338_L_0					

80 D	37.22	-1.3179E-03	156.0	186.1	316.0	208.5	UL-RL	1.5609E+04	-13.80	0.000
1.000	1.000	186.1	0.000	0.000	BNA3(3)_336_338_L_0					
81 D	36.53	-1.7216E-03	160.0	182.6	320.0	211.1	UL-RL	1.5609E+04	-14.00	0.000
1.000	1.000	182.6	0.000	0.000	BNA3(3)_336_338_L_0					
82 D	35.85	-2.1183E-03	164.0	179.3	324.0	213.8	UL-RL	1.5609E+04	-14.20	0.000
1.000	1.000	179.3	0.000	0.000	BNA3(3)_336_338_L_0					
83 D	35.20	-2.5092E-03	168.0	176.0	328.0	216.4	UL-RL	1.5609E+04	-14.40	0.000
1.000	1.000	176.0	0.000	0.000	BNA3(3)_336_338_L_0					
84 D	34.56	-2.8955E-03	172.0	172.8	332.0	219.0	UL-RL	1.5609E+04	-14.60	0.000
1.000	1.000	172.8	0.000	0.000	BNA3(3)_336_338_L_0					
85 D	33.93	-3.2780E-03	176.0	169.7	336.0	221.6	UL-RL	1.5609E+04	-14.80	0.000
1.000	1.000	169.7	0.000	0.000	BNA3(3)_336_338_L_0					
86 D	33.31	-3.6578E-03	180.0	166.6	340.0	224.2	UL-RL	1.5609E+04	-15.00	0.000
1.000	1.000	166.6	0.000	0.000	BNA3(3)_336_338_L_0					
87 D	32.70	-4.0356E-03	184.0	163.5	344.0	226.8	UL-RL	1.5609E+04	-15.20	0.000
1.000	1.000	163.5	0.000	0.000	BNA3(3)_336_338_L_0					
88 D	32.07	-4.4120E-03	188.0	160.3	348.0	229.6	UL-RL	1.5609E+04	-15.40	0.000
1.000	1.000	160.3	0.000	0.000	BNA3(3)_336_338_L_0					
89 D	31.43	-4.7877E-03	192.0	157.1	352.0	232.5	UL-RL	1.5609E+04	-15.60	0.000
1.000	1.000	157.1	0.000	0.000	BNA3(3)_336_338_L_0					
90 D	30.79	-5.1630E-03	196.0	154.0	356.0	235.4	UL-RL	1.5609E+04	-15.80	0.000
1.000	1.000	154.0	0.000	0.000	BNA3(3)_336_338_L_0					
91 D	15.08	-5.5382E-03	200.0	150.8	360.0	238.2	UL-RL	1.5609E+04	-16.00	0.000
1.000	1.000	150.8	0.000	0.000	BNA3(3)_336_338_L_0					

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|                PARATIE PLUS 2014 NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Sept23, 2015*                |
|                                                                                                                                            |
|                NewProject.BaseDesignSection_25.Nominal_60                                                                              |
|                Exe Time :29 June 2020    21:03:22                                                                                          |
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New Project

STRESS RESULTS FOR GROUP NO. 3

WallElement_30 :
ELEMENT TYPE 2 NO.OF ELEMENTS. IN THIS GROUP 90
CURRENT TIME IS 4.0000

WALL2D ELEMENT

EL	TA	TB	MA	MB
1	8.03595E-09	-8.03595E-09	8.07766E-10	1.07711E-09
2	0.48800	-0.48800	-1.60640E-10	9.76000E-02
3	1.4640	-1.4640	-9.76000E-02	0.39040
4	2.9280	-2.9280	-0.39040	0.97600
5	4.8800	-4.8800	-0.97600	1.9520
6	7.3200	-7.3200	-1.9520	3.4160
7	10.248	-10.248	-3.4160	5.4656
8	13.664	-13.664	-5.4656	8.1984
9	17.568	-17.568	-8.1984	11.712
10	21.960	-21.960	-11.712	16.104
11	26.840	-26.840	-16.104	21.472
12	32.209	-32.209	-21.472	27.914
13	38.065	-38.065	-27.914	35.527
14	44.409	-44.409	-35.527	44.409
15	51.242	-51.242	-44.409	54.657
16	-51.808	51.808	-54.657	44.296
17	-43.999	43.999	-44.296	35.496
18	-35.703	35.703	-35.496	28.355
19	-26.918	26.918	-28.355	22.972
20	-17.645	17.645	-22.972	19.443
21	-11.612	11.612	-19.443	17.120
22	-5.2510	5.2510	-17.120	16.070
23	1.4368	-1.4368	-16.070	16.357
24	8.4520	-8.4520	-16.357	18.048
25	15.795	-15.795	-18.048	21.207
26	23.465	-23.465	-21.207	25.900
27	31.462	-31.462	-25.900	32.192
28	39.787	-39.787	-32.192	40.149
29	48.439	-48.439	-40.149	49.837
30	57.418	-57.418	-49.837	61.321
31	66.725	-66.725	-61.321	74.666
32	76.360	-76.360	-74.666	89.938
33	86.322	-86.322	-89.938	107.20
34	96.611	-96.611	-107.20	126.52
35	107.23	-107.23	-126.52	147.97
36	118.17	-118.17	-147.97	171.60
37	129.45	-129.45	-171.60	197.49
38	141.04	-141.04	-197.49	225.70
39	152.97	-152.97	-225.70	256.30
40	165.23	-165.23	-256.30	289.34
41	177.81	-177.81	-289.34	324.90
42	186.74	-186.74	-324.90	362.25
43	193.45	-193.45	-362.25	400.94
44	197.94	-197.94	-400.94	440.53
45	200.21	-200.21	-440.53	480.57
46	200.25	-200.25	-480.57	520.62
47	198.07	-198.07	-520.62	560.24
48	193.68	-193.68	-560.24	598.97
49	187.06	-187.06	-598.97	636.38
50	178.21	-178.21	-636.38	672.03
51	167.15	-167.15	-672.03	705.46
52	153.86	-153.86	-705.46	736.23
53	138.35	-138.35	-736.23	763.90
54	120.62	-120.62	-763.90	788.02
55	100.67	-100.67	-788.02	808.16
56	78.500	-78.500	-808.16	823.86
57	55.023	-55.023	-823.86	834.86
58	32.449	-32.449	-834.86	841.35
59	10.744	-10.744	-841.35	843.50
60	-10.127	10.127	-843.50	841.48
61	-30.199	30.199	-841.48	835.44
62	-49.505	49.505	-835.44	825.54
63	-68.078	68.078	-825.54	811.92
64	-85.952	85.952	-811.92	794.73
65	-103.16	103.16	-794.73	774.10
66	-119.73	119.73	-774.10	750.15
67	-135.69	135.69	-750.15	723.01
68	-151.08	151.08	-723.01	692.80
69	-164.65	164.65	-692.80	659.87
70	-176.23	176.23	-659.87	624.62

71	-185.91	185.91	-624.62	587.44
72	-193.75	193.75	-587.44	548.69
73	-199.82	199.82	-548.69	508.73
74	-204.31	204.31	-508.73	467.86
75	-207.34	207.34	-467.86	426.40
76	-208.96	208.96	-426.40	384.60
77	-208.98	208.98	-384.60	342.81
78	-206.53	206.53	-342.81	301.50
79	-201.69	201.69	-301.50	261.16
80	-194.49	194.49	-261.16	222.27
81	-185.23	185.23	-222.27	185.22
82	-173.92	173.92	-185.22	150.44
83	-160.60	160.60	-150.44	118.32
84	-145.35	145.35	-118.32	89.247
85	-128.21	128.21	-89.247	63.604
86	-109.19	109.19	-63.604	41.767
87	-88.288	88.288	-41.767	24.109
88	-65.497	65.497	-24.109	11.010
89	-40.813	40.813	-11.010	2.8471
90	-14.235	14.235	-2.8471	-1.49623E-11

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|          PARATIE PLUS 2014 NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Sept23, 2015*          |
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|                                                                                                                                            |
|          NewProject.BaseDesignSection_25.Nominal_60          |
|          Exe Time :29 June 2020          21:03:22          |
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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 . 4

Tieback_341 :
ELEMENT TYPE 6 NO.OF ELEMENTS. IN THIS GROUP 1
C U R R E N T T I M E I S 4.0000

POST-TENSION 2D-BOUNDARY ELEMENT

	EL	FORCE	d0	EDISPL	pl. eps	K	-ve limit	+ve limit	
ANCHOR	1	117.45	-6.73664E-04	5.00667E-02	0.0000	1219.8	0.0000	0.0000	ELASTIC ORIGINAL YOUNG MODU-
LUS									


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|          PARATIE PLUS 2014 NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Sept23, 2015*          |
|                                                                                                    |
|                               NewProject.BaseDesignSection_25.Nominal_60                            |
|                               Exe Time :29 June 2020      21:03:22                                |
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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 . 5

Tieback_342 :
ELEMENT TYPE 6 NO.OF ELEMENTS. IN THIS GROUP 1
C U R R E N T T I M E I S 4.0000

POST-TENSION 2D-BOUNDARY ELEMENT

EL	FORCE	d0	EDISPL	pl. eps	K	-ve limit	+ve limit
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***** NO ONE ELEMENT ACTIVE AT CURRENT STEP *****

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ITER   0  RNORM = 0.000   RMNORM= 0.000
RINORM=0.2795E+07   RIMNOR=0.3381E+08
RENORM= 2726.   REMNOR=0.2271E-16   RATIO =0.3123E-01   TOLER =0.1000E-03   NOT CONVERGED
RFMAX = 209.0   RMMAX = 843.5
RTSMAL=0.1000E-02   RMSMAL=0.1000E-02
RDT   =0.2795E+07   RDR   =0.3381E+08
RATIOT=0.3123E-01   RATIO= 0.000
MAX UN=0.3273E-07   IEQ=   11 NODE   6 DOF   1   Y-DISPL.F
MIN UN=-52.21   IEQ=   71 NODE   36 DOF   1   Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS   0

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ITER   2  RNORM = 0.000   RMNORM= 0.000
RINORM=0.2795E+07   RIMNOR=0.3381E+08
RENORM=0.6993E-14   REMNOR=0.1967E-16   RATIO =0.5002E-10   TOLER =0.1000E-03   CONVERGED !
RFMAX = 209.0   RMMAX = 843.5
RTSMAL=0.1000E-02   RMSMAL=0.1000E-02
RDT   =0.2795E+07   RDR   =0.3381E+08
RATIOT=0.5002E-10   RATIO= 0.000
MAX UN=0.4033E-07   IEQ=   7 NODE   4 DOF   1   Y-DISPL.F
MIN UN=-.3766E-07   IEQ=   5 NODE   3 DOF   1   Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS   0

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|                PARATIE PLUS 2014 NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Sept23, 2015*                |
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|                NewProject.BaseDesignSection_25.Nominal_60                                                                              |
|                Exe Time :29 June 2020    21:03:22                                                                                          |
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New Project
SOLUTION REACHED USING 2 ITERATIONS ON 40

PRINT OUT FOR TIME STEP 5 (AT TIME 5.000)

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

	Y-DISPL.F (02)	X-ROT. F (04)	(
1	7.7544341E-02	-6.1935893E-03	
2	7.6305623E-02	-6.1935893E-03	
3	7.5066906E-02	-6.1935785E-03	
4	7.3828195E-02	-6.1935277E-03	
5	7.2589501E-02	-6.1933922E-03	
6	7.1350846E-02	-6.1931124E-03	
7	7.0112269E-02	-6.1926130E-03	
8	6.8873822E-02	-6.1918039E-03	
9	6.7635576E-02	-6.1905792E-03	
10	6.6397626E-02	-6.1888181E-03	
11	6.5160093E-02	-6.1863844E-03	
12	6.3923127E-02	-6.1831265E-03	
13	6.2686908E-02	-6.1788778E-03	
14	6.1451655E-02	-6.1734561E-03	
15	6.0217618E-02	-6.1666643E-03	
16	5.8985095E-02	-6.1582896E-03	
17	5.7754310E-02	-6.1498112E-03	
18	5.6525080E-02	-6.1426928E-03	
19	5.5297159E-02	-6.1366760E-03	
20	5.4070354E-02	-6.1314872E-03	
21	5.2844528E-02	-6.1268375E-03	
22	5.1619601E-02	-6.1224674E-03	
23	5.0395538E-02	-6.1181495E-03	
24	4.9172353E-02	-6.1136457E-03	
25	4.7950109E-02	-6.1087074E-03	
26	4.6728916E-02	-6.1030758E-03	
27	4.5508936E-02	-6.0964815E-03	
28	4.4290401E-02	-6.0886447E-03	
29	4.3073581E-02	-6.0792754E-03	
30	4.1858813E-02	-6.0680732E-03	
31	4.0646500E-02	-6.0547276E-03	
32	3.9437092E-02	-6.0389177E-03	
33	3.8231119E-02	-6.0203127E-03	
34	3.7029176E-02	-5.9985717E-03	
35	3.5831923E-02	-5.9733438E-03	
36	3.4640095E-02	-5.9442683E-03	
37	3.3454443E-02	-5.9117859E-03	
38	3.2275579E-02	-5.8763274E-03	
39	3.1104142E-02	-5.8375035E-03	
40	2.9940834E-02	-5.7949148E-03	
41	2.8786455E-02	-5.7481529E-03	
42	2.7641879E-02	-5.6968004E-03	
43	2.6508066E-02	-5.6404798E-03	
44	2.5386044E-02	-5.5788941E-03	
45	2.4276880E-02	-5.5118165E-03	
46	2.3181694E-02	-5.4390922E-03	
47	2.2101625E-02	-5.3606370E-03	
48	2.1037822E-02	-5.2764379E-03	
49	1.9991429E-02	-5.1865530E-03	
50	1.8963576E-02	-5.0911122E-03	
51	1.7955346E-02	-4.9903149E-03	
52	1.6967789E-02	-4.8844330E-03	
53	1.6001889E-02	-4.7738092E-03	
54	1.5058554E-02	-4.6588571E-03	
55	1.4138607E-02	-4.5400622E-03	
56	1.3242753E-02	-4.4179789E-03	
57	1.2371593E-02	-4.2932344E-03	
58	1.1525591E-02	-4.1665121E-03	
59	1.0705074E-02	-4.0385032E-03	
60	9.9102352E-03	-3.9098740E-03	
61	9.1411270E-03	-3.7812641E-03	
62	8.3976689E-03	-3.6532879E-03	
63	7.6797461E-03	-3.5265526E-03	
64	6.9869641E-03	-3.4016149E-03	
65	6.3189431E-03	-3.2790330E-03	
66	5.6751584E-03	-3.1593388E-03	
67	5.0549808E-03	-3.0430456E-03	
68	4.4576804E-03	-2.9306484E-03	
69	3.8824299E-03	-2.8226253E-03	
70	3.3283092E-03	-2.7194180E-03	
71	2.7943160E-03	-2.6214105E-03	
72	2.2793768E-03	-2.5289274E-03	
73	1.7823589E-03	-2.4422362E-03	
74	1.3020820E-03	-2.3615494E-03	

75 8.3732809E-04 -2.2870284E-03
76 3.8685190E-04 -2.2187881E-03
77 -5.0610614E-05 -2.1568999E-03
78 -4.7633322E-04 -2.1013892E-03
79 -8.9158902E-04 -2.0522195E-03
80 -1.2976364E-03 -2.0092799E-03
81 -1.6957041E-03 -1.9723868E-03
82 -2.0869775E-03 -1.9412891E-03
83 -2.4725852E-03 -1.9156728E-03
84 -2.8535870E-03 -1.8951621E-03
85 -3.2309613E-03 -1.8793211E-03
86 -3.6055938E-03 -1.8676557E-03
87 -3.9782652E-03 -1.8596138E-03
88 -4.3496403E-03 -1.8545862E-03
89 -4.7202561E-03 -1.8519059E-03
90 -5.0905108E-03 -1.8508484E-03
91 -5.4606700E-03 -1.8506310E-03

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|                PARATIE PLUS 2014 NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Sept23, 2015*                |
|                                                                                                                    |
|                NewProject.BaseDesignSection_25.Nominal_60                                                         |
|                Exe Time :29 June 2020 21:03:22                                                                    |
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New Project

STRESS RESULTS FOR GROUP NO. 1

0_L :
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 91
CURRENT TIME IS 5.0000

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 LAYER	MAX-H-P	STATE	STIFFNESS	Z-LEVEL	PORE	E FAC-
1 D	0.000	-7.7544E-02	0.000	0.000	0.000	0.000	PASSIVE	0.000	2.000	0.000	
1.000	1.000	0.000	0.000	0.000	FRANA_334_8_L_0						
2 D	0.6956	-7.6306E-02	4.000	3.478	4.000	6.956	UL-RL	2880.	1.800	0.000	
1.000	1.000	3.478	0.000	0.000	FRANA_334_8_L_0						
3 D	1.187	-7.5067E-02	8.000	5.937	8.000	9.519	UL-RL	2880.	1.600	0.000	
1.000	1.000	5.937	0.000	0.000	FRANA_334_8_L_0						
4 D	1.679	-7.3828E-02	12.00	8.396	12.00	12.08	UL-RL	2880.	1.400	0.000	
1.000	1.000	8.396	0.000	0.000	FRANA_334_8_L_0						
5 D	2.171	-7.2590E-02	16.00	10.86	16.00	14.65	UL-RL	2880.	1.200	0.000	
1.000	1.000	10.86	0.000	0.000	FRANA_334_8_L_0						
6 D	2.663	-7.1351E-02	20.00	13.31	20.00	17.21	UL-RL	2880.	1.000	0.000	
1.000	1.000	13.31	0.000	0.000	FRANA_334_8_L_0						
7 D	3.155	-7.0112E-02	24.00	15.77	24.00	19.77	UL-RL	2880.	0.8000	0.000	
1.000	1.000	15.77	0.000	0.000	FRANA_334_8_L_0						
8 D	3.646	-6.8874E-02	28.00	18.23	28.00	22.33	UL-RL	2880.	0.6000	0.000	
1.000	1.000	18.23	0.000	0.000	FRANA_334_8_L_0						
9 D	4.138	-6.7636E-02	32.00	20.69	32.00	24.90	UL-RL	2880.	0.4000	0.000	
1.000	1.000	20.69	0.000	0.000	FRANA_334_8_L_0						
10 D	4.630	-6.6398E-02	36.00	23.15	36.00	27.76	UL-RL	2880.	0.2000	0.000	
1.000	1.000	23.15	0.000	0.000	FRANA_334_8_L_0						
11 D	5.122	-6.5160E-02	40.00	25.61	40.00	30.84	UL-RL	2880.	-1.4901E-07	0.000	
1.000	1.000	25.61	0.000	0.000	FRANA_334_8_L_0						
12 D	5.614	-6.3923E-02	44.00	28.07	44.00	33.92	UL-RL	2880.	-0.2000	0.000	
1.000	1.000	28.07	0.000	0.000	FRANA_334_8_L_0						
13 D	6.105	-6.2687E-02	48.00	30.53	48.00	37.01	UL-RL	2880.	-0.4000	0.000	
1.000	1.000	30.53	0.000	0.000	FRANA_334_8_L_0						
14 D	6.597	-6.1452E-02	52.00	32.98	52.00	40.09	UL-RL	2880.	-0.6000	0.000	
1.000	1.000	32.98	0.000	0.000	FRANA_334_8_L_0						
15 D	7.089	-6.0218E-02	56.00	35.44	56.00	43.17	UL-RL	2880.	-0.8000	0.000	
1.000	1.000	35.44	0.000	0.000	FRANA_334_8_L_0						
16 D	7.580	-5.8985E-02	60.00	37.90	60.00	46.25	UL-RL	2880.	-1.000	0.000	
1.000	1.000	37.90	0.000	0.000	FRANA_334_8_L_0						
17 D	8.072	-5.7754E-02	64.01	40.36	64.01	49.34	UL-RL	2880.	-1.200	0.000	
1.000	1.000	40.36	0.000	0.000	FRANA_334_8_L_0						
18 D	8.563	-5.6525E-02	68.01	42.81	68.01	52.42	UL-RL	2880.	-1.400	0.000	
1.000	1.000	42.81	0.000	0.000	FRANA_334_8_L_0						
19 D	9.054	-5.5297E-02	72.01	45.27	72.01	55.50	UL-RL	2880.	-1.600	0.000	
1.000	1.000	45.27	0.000	0.000	FRANA_334_8_L_0						
20 D	9.545	-5.4070E-02	76.01	47.73	76.01	58.58	UL-RL	2880.	-1.800	0.000	
1.000	1.000	47.73	0.000	0.000	FRANA_334_8_L_0						
21 D	7.154	-5.2845E-02	80.01	35.77	80.01	47.50	UL-RL	1.1727E+04	-2.000	0.000	
1.000	1.000	35.77	0.000	0.000	BNA3(2)_335_337_L_0						
22 D	7.493	-5.1620E-02	84.01	37.46	84.01	49.88	UL-RL	1.1727E+04	-2.200	0.000	
1.000	1.000	37.46	0.000	0.000	BNA3(2)_335_337_L_0						
23 D	7.830	-5.0396E-02	88.01	39.15	88.01	52.25	UL-RL	1.1727E+04	-2.400	0.000	
1.000	1.000	39.15	0.000	0.000	BNA3(2)_335_337_L_0						
24 D	8.167	-4.9172E-02	92.02	40.84	92.02	54.62	UL-RL	1.1727E+04	-2.600	0.000	
1.000	1.000	40.84	0.000	0.000	BNA3(2)_335_337_L_0						
25 D	8.503	-4.7950E-02	96.02	42.51	96.02	56.99	UL-RL	1.1727E+04	-2.800	0.000	
1.000	1.000	42.51	0.000	0.000	BNA3(2)_335_337_L_0						
26 D	8.838	-4.6729E-02	100.0	44.19	100.0	59.36	UL-RL	1.1727E+04	-3.000	0.000	
1.000	1.000	44.19	0.000	0.000	BNA3(2)_335_337_L_0						
27 D	9.171	-4.5509E-02	104.0	45.85	104.0	61.74	UL-RL	1.1727E+04	-3.200	0.000	
1.000	1.000	45.85	0.000	0.000	BNA3(2)_335_337_L_0						
28 D	9.503	-4.4290E-02	108.0	47.51	108.0	64.11	UL-RL	1.1727E+04	-3.400	0.000	
1.000	1.000	47.51	0.000	0.000	BNA3(2)_335_337_L_0						
29 D	9.833	-4.3074E-02	112.0	49.17	112.0	66.48	UL-RL	1.1727E+04	-3.600	0.000	
1.000	1.000	49.17	0.000	0.000	BNA3(2)_335_337_L_0						
30 D	10.16	-4.1859E-02	116.0	50.81	116.0	68.85	UL-RL	1.1727E+04	-3.800	0.000	
1.000	1.000	50.81	0.000	0.000	BNA3(2)_335_337_L_0						
31 D	10.49	-4.0647E-02	120.0	52.44	120.0	71.22	UL-RL	1.1727E+04	-4.000	0.000	
1.000	1.000	52.44	0.000	0.000	BNA3(2)_335_337_L_0						
32 D	10.81	-3.9437E-02	124.0	54.06	124.0	73.59	UL-RL	1.1727E+04	-4.200	0.000	
1.000	1.000	54.06	0.000	0.000	BNA3(2)_335_337_L_0						
33 D	11.13	-3.8231E-02	128.0	55.67	128.0	75.96	UL-RL	1.1727E+04	-4.400	0.000	
1.000	1.000	55.67	0.000	0.000	BNA3(2)_335_337_L_0						

34 D	11.45	-3.7029E-02	132.0	57.26	132.0	78.33	UL-RL	1.1727E+04	-4.600	0.000
1.000	1.000	57.26	0.000	0.000	BNA3(2)_335_337_L_0					
35 D	11.77	-3.5832E-02	136.0	58.84	136.0	80.69	UL-RL	1.1727E+04	-4.800	0.000
1.000	1.000	58.84	0.000	0.000	BNA3(2)_335_337_L_0					
36 D	12.08	-3.4640E-02	140.1	60.40	140.1	83.06	UL-RL	1.1727E+04	-5.000	0.000
1.000	1.000	60.40	0.000	0.000	BNA3(2)_335_337_L_0					
37 D	12.39	-3.3454E-02	144.1	61.94	144.1	85.43	UL-RL	1.1727E+04	-5.200	0.000
1.000	1.000	61.94	0.000	0.000	BNA3(2)_335_337_L_0					
38 D	12.69	-3.2276E-02	148.1	63.46	148.1	87.80	UL-RL	1.1727E+04	-5.400	0.000
1.000	1.000	63.46	0.000	0.000	BNA3(2)_335_337_L_0					
39 D	12.99	-3.1104E-02	152.1	64.97	152.1	90.16	UL-RL	1.1727E+04	-5.600	0.000
1.000	1.000	64.97	0.000	0.000	BNA3(2)_335_337_L_0					
40 D	13.29	-2.9941E-02	156.1	66.47	156.1	92.53	UL-RL	1.1727E+04	-5.800	0.000
1.000	1.000	66.47	0.000	0.000	BNA3(2)_335_337_L_0					
41 D	13.59	-2.8786E-02	160.1	67.96	160.1	94.89	UL-RL	1.1727E+04	-6.000	0.000
1.000	1.000	67.96	0.000	0.000	BNA3(2)_335_337_L_0					
42 D	13.89	-2.7642E-02	164.1	69.43	164.1	97.26	UL-RL	1.1727E+04	-6.200	0.000
1.000	1.000	69.43	0.000	0.000	BNA3(2)_335_337_L_0					
43 D	14.18	-2.6508E-02	168.1	70.90	168.1	99.62	UL-RL	1.1727E+04	-6.400	0.000
1.000	1.000	70.90	0.000	0.000	BNA3(2)_335_337_L_0					
44 D	14.47	-2.5386E-02	172.1	72.37	172.1	102.0	UL-RL	1.1727E+04	-6.600	0.000
1.000	1.000	72.37	0.000	0.000	BNA3(2)_335_337_L_0					
45 D	14.76	-2.4277E-02	176.1	73.82	176.1	104.3	UL-RL	1.1727E+04	-6.800	0.000
1.000	1.000	73.82	0.000	0.000	BNA3(2)_335_337_L_0					
46 D	15.06	-2.3182E-02	180.1	75.28	180.1	106.7	UL-RL	1.1727E+04	-7.000	0.000
1.000	1.000	75.28	0.000	0.000	BNA3(2)_335_337_L_0					
47 D	15.35	-2.2102E-02	184.1	76.73	184.1	109.4	UL-RL	1.1727E+04	-7.200	0.000
1.000	1.000	76.73	0.000	0.000	BNA3(2)_335_337_L_0					
48 D	15.64	-2.1038E-02	188.1	78.19	188.1	112.4	UL-RL	1.1727E+04	-7.400	0.000
1.000	1.000	78.19	0.000	0.000	BNA3(2)_335_337_L_0					
49 D	15.93	-1.9991E-02	192.1	79.64	192.1	115.4	UL-RL	1.1727E+04	-7.600	0.000
1.000	1.000	79.64	0.000	0.000	BNA3(2)_335_337_L_0					
50 D	16.22	-1.8964E-02	196.1	81.09	196.1	118.2	UL-RL	1.1727E+04	-7.800	0.000
1.000	1.000	81.09	0.000	0.000	BNA3(2)_335_337_L_0					
51 D	16.51	-1.7955E-02	200.1	82.54	200.1	121.0	UL-RL	1.1727E+04	-8.000	0.000
1.000	1.000	82.54	0.000	0.000	BNA3(2)_335_337_L_0					
52 D	16.80	-1.6968E-02	204.1	84.00	204.1	123.8	UL-RL	1.1727E+04	-8.200	0.000
1.000	1.000	84.00	0.000	0.000	BNA3(2)_335_337_L_0					
53 D	17.09	-1.6002E-02	208.2	85.46	208.2	126.5	UL-RL	1.1727E+04	-8.400	0.000
1.000	1.000	85.46	0.000	0.000	BNA3(2)_335_337_L_0					
54 D	17.38	-1.5059E-02	212.2	86.92	212.2	129.1	UL-RL	1.1727E+04	-8.600	0.000
1.000	1.000	86.92	0.000	0.000	BNA3(2)_335_337_L_0					
55 D	17.68	-1.4139E-02	216.2	88.39	216.2	131.7	UL-RL	1.1727E+04	-8.800	0.000
1.000	1.000	88.39	0.000	0.000	BNA3(2)_335_337_L_0					
56 D	17.97	-1.3243E-02	220.2	89.86	220.2	134.2	UL-RL	1.1727E+04	-9.000	0.000
1.000	1.000	89.86	0.000	0.000	BNA3(2)_335_337_L_0					
57 D	18.27	-1.2372E-02	224.2	91.34	224.2	136.8	UL-RL	1.1727E+04	-9.200	0.000
1.000	1.000	91.34	0.000	0.000	BNA3(2)_335_337_L_0					
58 D	18.56	-1.1526E-02	228.2	92.82	228.2	139.4	UL-RL	1.1727E+04	-9.400	0.000
1.000	1.000	92.82	0.000	0.000	BNA3(2)_335_337_L_0					
59 D	18.86	-1.0705E-02	232.2	94.31	232.2	141.9	UL-RL	1.1727E+04	-9.600	0.000
1.000	1.000	94.31	0.000	0.000	BNA3(2)_335_337_L_0					
60 D	19.16	-9.9102E-03	236.2	95.80	236.2	144.3	UL-RL	1.1727E+04	-9.800	0.000
1.000	1.000	95.80	0.000	0.000	BNA3(2)_335_337_L_0					
61 D	19.46	-9.1411E-03	240.2	97.30	240.2	146.8	UL-RL	1.1727E+04	-10.000	0.000
1.000	1.000	97.30	0.000	0.000	BNA3(2)_335_337_L_0					
62 D	19.76	-8.3977E-03	244.2	98.80	244.2	149.1	UL-RL	1.1727E+04	-10.200	0.000
1.000	1.000	98.80	0.000	0.000	BNA3(2)_335_337_L_0					
63 D	20.06	-7.6797E-03	248.2	100.3	248.2	151.5	UL-RL	1.1727E+04	-10.400	0.000
1.000	1.000	100.3	0.000	0.000	BNA3(2)_335_337_L_0					
64 D	20.36	-6.9870E-03	252.3	101.8	252.3	153.8	UL-RL	1.1727E+04	-10.600	0.000
1.000	1.000	101.8	0.000	0.000	BNA3(2)_335_337_L_0					
65 D	20.67	-6.3189E-03	256.3	103.3	256.3	156.1	UL-RL	1.1727E+04	-10.800	0.000
1.000	1.000	103.3	0.000	0.000	BNA3(2)_335_337_L_0					
66 D	20.97	-5.6752E-03	260.3	104.9	260.3	158.3	UL-RL	1.1727E+04	-11.000	0.000
1.000	1.000	104.9	0.000	0.000	BNA3(2)_335_337_L_0					
67 D	21.28	-5.0550E-03	264.3	106.4	264.3	160.6	UL-RL	1.1727E+04	-11.200	0.000
1.000	1.000	106.4	0.000	0.000	BNA3(2)_335_337_L_0					
68 D	21.59	-4.4577E-03	268.3	107.9	268.3	162.8	UL-RL	1.1727E+04	-11.400	0.000
1.000	1.000	107.9	0.000	0.000	BNA3(2)_335_337_L_0					
69 D	23.17	-3.8824E-03	272.3	115.8	272.3	165.0	UL-RL	1.1727E+04	-11.600	0.000
1.000	1.000	115.8	0.000	0.000	BNA3(2)_335_337_L_0					
70 D	24.94	-3.3283E-03	276.3	124.7	276.3	167.2	UL-RL	1.1727E+04	-11.800	0.000
1.000	1.000	124.7	0.000	0.000	BNA3(2)_335_337_L_0					
71 D	26.66	-2.7943E-03	280.3	133.3	280.3	169.4	UL-RL	1.1727E+04	-12.000	0.000
1.000	1.000	133.3	0.000	0.000	BNA3(2)_335_337_L_0					
72 D	28.33	-2.2794E-03	284.4	141.6	284.4	171.5	UL-RL	1.1727E+04	-12.200	0.000
1.000	1.000	141.6	0.000	0.000	BNA3(2)_335_337_L_0					
73 D	29.96	-1.7824E-03	288.4	149.8	288.4	173.7	UL-RL	1.1727E+04	-12.400	0.000
1.000	1.000	149.8	0.000	0.000	BNA3(2)_335_337_L_0					
74 D	31.43	-1.3021E-03	292.4	157.1	292.4	176.9	UL-RL	1.1727E+04	-12.600	0.000
1.000	1.000	157.1	0.000	0.000	BNA3(2)_335_337_L_0					
75 D	32.79	-8.3733E-04	296.4	163.9	296.4	180.7	UL-RL	1.1727E+04	-12.800	0.000
1.000	1.000	163.9	0.000	0.000	BNA3(2)_335_337_L_0					
76 D	34.12	-3.8685E-04	300.4	170.6	300.4	184.3	UL-RL	1.1727E+04	-13.000	0.000
1.000	1.000	170.6	0.000	0.000	BNA3(2)_335_337_L_0					
77 D	39.44	5.0611E-05	304.4	197.2	304.4	212.1	UL-RL	1.6217E+04	-13.200	0.000
1.000	1.000	197.2	0.000	0.000	BNA3(3)_336_338_L_0					
78 D	41.10	4.7633E-04	308.4	205.5	308.4	216.4	UL-RL	1.6217E+04	-13.400	0.000
1.000	1.000	205.5	0.000	0.000	BNA3(3)_336_338_L_0					
79 D	42.74	8.9159E-04	312.4	213.7	312.4	220.6	UL-RL	1.6217E+04	-13.600	0.000
1.000	1.000	213.7	0.000	0.000	BNA3(3)_336_338_L_0					

80 D	44.35	1.2976E-03	316.5	221.7	316.5	224.8	UL-RL	1.6217E+04	-13.80	0.000
1.000	1.000		221.7	0.000	0.000	BNA3(3)_336_338_L_0				
81 D	45.71	1.6957E-03	320.5	228.6	320.5	230.8	UL-RL	1.6217E+04	-14.00	0.000
1.000	1.000		228.6	0.000	0.000	BNA3(3)_336_338_L_0				
82 D	47.06	2.0870E-03	324.5	235.3	324.5	236.7	UL-RL	1.6217E+04	-14.20	0.000
1.000	1.000		235.3	0.000	0.000	BNA3(3)_336_338_L_0				
83 D	48.40	2.4726E-03	328.5	242.0	328.5	242.6	UL-RL	1.6217E+04	-14.40	0.000
1.000	1.000		242.0	0.000	0.000	BNA3(3)_336_338_L_0				
84 D	49.66	2.8536E-03	332.5	248.3	332.5	249.0	UL-RL	1.6217E+04	-14.60	0.000
1.000	1.000		248.3	0.000	0.000	BNA3(3)_336_338_L_0				
85 D	50.92	3.2310E-03	336.5	254.6	336.5	255.4	UL-RL	1.6217E+04	-14.80	0.000
1.000	1.000		254.6	0.000	0.000	BNA3(3)_336_338_L_0				
86 D	52.17	3.6056E-03	340.5	260.8	340.5	261.7	UL-RL	1.6217E+04	-15.00	0.000
1.000	1.000		260.8	0.000	0.000	BNA3(3)_336_338_L_0				
87 D	53.41	3.9783E-03	344.6	267.1	344.6	268.0	UL-RL	1.6217E+04	-15.20	0.000
1.000	1.000		267.1	0.000	0.000	BNA3(3)_336_338_L_0				
88 D	54.65	4.3496E-03	348.6	273.3	348.6	274.3	UL-RL	1.6217E+04	-15.40	0.000
1.000	1.000		273.3	0.000	0.000	BNA3(3)_336_338_L_0				
89 D	55.90	4.7203E-03	352.6	279.5	352.6	280.6	UL-RL	1.6217E+04	-15.60	0.000
1.000	1.000		279.5	0.000	0.000	BNA3(3)_336_338_L_0				
90 D	57.14	5.0905E-03	356.6	285.7	356.6	286.9	UL-RL	1.6217E+04	-15.80	0.000
1.000	1.000		285.7	0.000	0.000	BNA3(3)_336_338_L_0				
91 D	29.19	5.4607E-03	360.6	291.9	360.6	293.1	UL-RL	1.6217E+04	-16.00	0.000
1.000	1.000		291.9	0.000	0.000	BNA3(3)_336_338_L_0				

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|                PARATIE PLUS 2014 NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Sept23, 2015*                |
|                                                                                                                    |
|                NewProject.BaseDesignSection_25.Nominal_60                                                         |
|                Exe Time :29 June 2020      21:03:22                                                                |
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New Project

STRESS RESULTS FOR GROUP NO. 2

0_R :
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 91
CURRENT TIME IS 5.0000

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 LAYER	MAX-H-P	STATE	STIFFNESS	Z-LEVEL	PORE	E FAC-
1	0.000	--	--	--	--	--	REMOVED	--	2.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
2	0.000	--	--	--	--	--	REMOVED	--	1.800	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
3	0.000	--	--	--	--	--	REMOVED	--	1.600	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
4	0.000	--	--	--	--	--	REMOVED	--	1.400	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
5	0.000	--	--	--	--	--	REMOVED	--	1.200	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
6	0.000	--	--	--	--	--	REMOVED	--	1.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
7	0.000	--	--	--	--	--	REMOVED	--	0.8000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
8	0.000	--	--	--	--	--	REMOVED	--	0.6000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
9	0.000	--	--	--	--	--	REMOVED	--	0.4000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
10	0.000	--	--	--	--	--	REMOVED	--	0.2000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
11	0.000	--	--	--	--	--	REMOVED	--	-1.4901E-07	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
12	0.000	--	--	--	--	--	REMOVED	--	-0.2000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
13	0.000	--	--	--	--	--	REMOVED	--	-0.4000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
14	0.000	--	--	--	--	--	REMOVED	--	-0.6000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
15	0.000	--	--	--	--	--	REMOVED	--	-0.8000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
16	0.000	--	--	--	--	--	REMOVED	--	-1.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
17	0.000	--	--	--	--	--	REMOVED	--	-1.200	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
18	0.000	--	--	--	--	--	REMOVED	--	-1.400	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
19	0.000	--	--	--	--	--	REMOVED	--	-1.600	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
20	0.000	--	--	--	--	--	REMOVED	--	-1.800	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
21	0.000	--	--	--	--	--	REMOVED	--	-2.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
22	0.000	--	--	--	--	--	REMOVED	--	-2.200	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
23	0.000	--	--	--	--	--	REMOVED	--	-2.400	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
24	0.000	--	--	--	--	--	REMOVED	--	-2.600	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
25	0.000	--	--	--	--	--	REMOVED	--	-2.800	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
26	0.000	--	--	--	--	--	REMOVED	--	-3.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
27	0.000	--	--	--	--	--	REMOVED	--	-3.200	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
28	0.000	--	--	--	--	--	REMOVED	--	-3.400	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
29	0.000	--	--	--	--	--	REMOVED	--	-3.600	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
30	0.000	--	--	--	--	--	REMOVED	--	-3.800	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
31	0.000	--	--	--	--	--	REMOVED	--	-4.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
32	0.000	--	--	--	--	--	REMOVED	--	-4.200	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
33	0.000	--	--	--	--	--	REMOVED	--	-4.400	0.000	
1.000	1.000	0.000	0.000	0.000	not available						

34	0.000	--	--	--	--	--	REMOVED	--	-4.600	0.000
1.000	1.000	0.000	0.000	0.000	0.000	not available				
35	0.000	--	--	--	--	--	REMOVED	--	-4.800	0.000
1.000	1.000	0.000	0.000	0.000	0.000	not available				
36	0.000	--	--	--	--	--	REMOVED	--	-5.000	0.000
1.000	1.000	0.000	0.000	0.000	0.000	not available				
37	0.000	--	--	--	--	--	REMOVED	--	-5.200	0.000
1.000	1.000	0.000	0.000	0.000	0.000	not available				
38	0.000	--	--	--	--	--	REMOVED	--	-5.400	0.000
1.000	1.000	0.000	0.000	0.000	0.000	not available				
39	0.000	--	--	--	--	--	REMOVED	--	-5.600	0.000
1.000	1.000	0.000	0.000	0.000	0.000	not available				
40	0.000	--	--	--	--	--	REMOVED	--	-5.800	0.000
1.000	1.000	0.000	0.000	0.000	0.000	not available				
41	0.000	--	--	--	--	--	REMOVED	--	-6.000	0.000
1.000	1.000	0.000	0.000	0.000	0.000	not available				
42 D	3.179	2.7642E-02	4.000	15.89	164.0	103.6	UL-RL	9593.	-6.200	0.000
1.000	1.000	15.89	0.000	0.000	BNA3(2)_335_337_L_0					
43 D	5.756	2.6508E-02	8.000	28.78	168.0	104.7	UL-RL	9593.	-6.400	0.000
1.000	1.000	28.78	0.000	0.000	BNA3(2)_335_337_L_0					
44 D	8.334	2.5386E-02	12.00	41.67	172.0	106.0	UL-RL	9593.	-6.600	0.000
1.000	1.000	41.67	0.000	0.000	BNA3(2)_335_337_L_0					
45 D	10.91	2.4277E-02	16.00	54.57	176.0	107.3	UL-RL	9593.	-6.800	0.000
1.000	1.000	54.57	0.000	0.000	BNA3(2)_335_337_L_0					
46 D	13.49	2.3182E-02	20.00	67.47	180.0	108.8	UL-RL	9593.	-7.000	0.000
1.000	1.000	67.47	0.000	0.000	BNA3(2)_335_337_L_0					
47 D	16.07	2.2102E-02	24.00	80.36	184.0	110.4	UL-RL	9593.	-7.200	0.000
1.000	1.000	80.36	0.000	0.000	BNA3(2)_335_337_L_0					
48 D	18.65	2.1038E-02	28.00	93.27	188.0	112.1	UL-RL	9593.	-7.400	0.000
1.000	1.000	93.27	0.000	0.000	BNA3(2)_335_337_L_0					
49 D	21.23	1.9991E-02	32.00	106.2	192.0	113.8	UL-RL	9593.	-7.600	0.000
1.000	1.000	106.2	0.000	0.000	BNA3(2)_335_337_L_0					
50 D	23.81	1.8964E-02	36.00	119.1	196.0	121.9	UL-RL	9593.	-7.800	0.000
1.000	1.000	119.1	0.000	0.000	BNA3(2)_335_337_L_0					
51 D	26.39	1.7955E-02	40.00	132.0	200.0	134.6	UL-RL	9593.	-8.000	0.000
1.000	1.000	132.0	0.000	0.000	BNA3(2)_335_337_L_0					
52 D	28.97	1.6968E-02	44.00	144.9	204.0	147.4	UL-RL	9593.	-8.200	0.000
1.000	1.000	144.9	0.000	0.000	BNA3(2)_335_337_L_0					
53 D	31.55	1.6002E-02	48.00	157.8	208.0	160.1	UL-RL	9593.	-8.400	0.000
1.000	1.000	157.8	0.000	0.000	BNA3(2)_335_337_L_0					
54 D	34.13	1.5059E-02	52.00	170.6	212.0	172.9	UL-RL	9593.	-8.600	0.000
1.000	1.000	170.6	0.000	0.000	BNA3(2)_335_337_L_0					
55 D	36.71	1.4139E-02	56.00	183.5	216.0	185.6	UL-RL	9593.	-8.800	0.000
1.000	1.000	183.5	0.000	0.000	BNA3(2)_335_337_L_0					
56 D	39.28	1.3243E-02	60.00	196.4	220.0	198.4	UL-RL	9593.	-9.000	0.000
1.000	1.000	196.4	0.000	0.000	BNA3(2)_335_337_L_0					
57 D	40.94	1.2372E-02	64.00	204.7	224.0	206.5	UL-RL	9593.	-9.200	0.000
1.000	1.000	204.7	0.000	0.000	BNA3(2)_335_337_L_0					
58 D	40.39	1.1526E-02	68.00	202.0	228.0	203.6	UL-RL	9593.	-9.400	0.000
1.000	1.000	202.0	0.000	0.000	BNA3(2)_335_337_L_0					
59 D	39.88	1.0705E-02	72.00	199.4	232.0	200.9	UL-RL	9593.	-9.600	0.000
1.000	1.000	199.4	0.000	0.000	BNA3(2)_335_337_L_0					
60 D	39.40	9.9102E-03	76.00	197.0	236.0	198.4	UL-RL	9593.	-9.800	0.000
1.000	1.000	197.0	0.000	0.000	BNA3(2)_335_337_L_0					
61 D	38.95	9.1411E-03	80.00	194.7	240.0	196.1	UL-RL	9593.	-10.000	0.000
1.000	1.000	194.7	0.000	0.000	BNA3(2)_335_337_L_0					
62 D	38.53	8.3977E-03	84.00	192.7	244.0	193.9	UL-RL	9593.	-10.200	0.000
1.000	1.000	192.7	0.000	0.000	BNA3(2)_335_337_L_0					
63 D	38.15	7.6797E-03	88.00	190.8	248.0	191.8	UL-RL	9593.	-10.400	0.000
1.000	1.000	190.8	0.000	0.000	BNA3(2)_335_337_L_0					
64 D	37.80	6.9870E-03	92.00	189.0	252.0	190.0	UL-RL	9593.	-10.600	0.000
1.000	1.000	189.0	0.000	0.000	BNA3(2)_335_337_L_0					
65 D	37.48	6.3189E-03	96.00	187.4	256.0	188.3	UL-RL	9593.	-10.800	0.000
1.000	1.000	187.4	0.000	0.000	BNA3(2)_335_337_L_0					
66 D	37.19	5.6752E-03	100.0	186.0	260.0	186.7	UL-RL	9593.	-11.000	0.000
1.000	1.000	186.0	0.000	0.000	BNA3(2)_335_337_L_0					
67 D	36.93	5.0550E-03	104.0	184.7	264.0	185.4	UL-RL	9593.	-11.200	0.000
1.000	1.000	184.7	0.000	0.000	BNA3(2)_335_337_L_0					
68 D	36.70	4.4577E-03	108.0	183.5	268.0	184.1	UL-RL	9593.	-11.400	0.000
1.000	1.000	183.5	0.000	0.000	BNA3(2)_335_337_L_0					
69 D	36.50	3.8824E-03	112.0	182.5	272.0	183.0	UL-RL	9593.	-11.600	0.000
1.000	1.000	182.5	0.000	0.000	BNA3(2)_335_337_L_0					
70 D	36.32	3.3283E-03	116.0	181.6	276.0	182.1	UL-RL	9593.	-11.800	0.000
1.000	1.000	181.6	0.000	0.000	BNA3(2)_335_337_L_0					
71 D	36.17	2.7943E-03	120.0	180.8	280.0	181.2	UL-RL	9593.	-12.000	0.000
1.000	1.000	180.8	0.000	0.000	BNA3(2)_335_337_L_0					
72 D	36.04	2.2794E-03	124.0	180.2	284.0	180.5	UL-RL	9593.	-12.200	0.000
1.000	1.000	180.2	0.000	0.000	BNA3(2)_335_337_L_0					
73 D	35.93	1.7824E-03	128.0	179.7	288.0	179.9	UL-RL	9593.	-12.400	0.000
1.000	1.000	179.7	0.000	0.000	BNA3(2)_335_337_L_0					
74 D	35.84	1.3021E-03	132.0	179.2	292.0	179.4	UL-RL	9593.	-12.600	0.000
1.000	1.000	179.2	0.000	0.000	BNA3(2)_335_337_L_0					
75 D	35.78	8.3733E-04	136.0	178.9	296.0	179.0	UL-RL	9593.	-12.800	0.000
1.000	1.000	178.9	0.000	0.000	BNA3(2)_335_337_L_0					
76 D	35.72	3.8685E-04	140.0	178.6	300.0	178.7	UL-RL	9593.	-13.000	0.000
1.000	1.000	178.6	0.000	0.000	BNA3(2)_335_337_L_0					
77 D	39.48	-5.0611E-05	144.0	197.4	304.0	200.7	UL-RL	1.5609E+04	-13.200	0.000
1.000	1.000	197.4	0.000	0.000	BNA3(3)_336_338_L_0					
78 D	38.72	-4.7633E-04	148.0	193.6	308.0	203.3	UL-RL	1.5609E+04	-13.400	0.000
1.000	1.000	193.6	0.000	0.000	BNA3(3)_336_338_L_0					
79 D	37.99	-8.9159E-04	152.0	189.9	312.0	205.9	UL-RL	1.5609E+04	-13.600	0.000
1.000	1.000	189.9	0.000	0.000	BNA3(3)_336_338_L_0					

80 D	37.28	-1.2976E-03	156.0	186.4	316.0	208.5	UL-RL	1.5609E+04	-13.80	0.000
1.000	1.000	186.4	0.000	0.000	BNA3(3)_336_338_L_0					
81 D	36.61	-1.6957E-03	160.0	183.0	320.0	211.1	UL-RL	1.5609E+04	-14.00	0.000
1.000	1.000	183.0	0.000	0.000	BNA3(3)_336_338_L_0					
82 D	35.95	-2.0870E-03	164.0	179.8	324.0	213.8	UL-RL	1.5609E+04	-14.20	0.000
1.000	1.000	179.8	0.000	0.000	BNA3(3)_336_338_L_0					
83 D	35.31	-2.4726E-03	168.0	176.6	328.0	216.4	UL-RL	1.5609E+04	-14.40	0.000
1.000	1.000	176.6	0.000	0.000	BNA3(3)_336_338_L_0					
84 D	34.69	-2.8536E-03	172.0	173.5	332.0	219.0	UL-RL	1.5609E+04	-14.60	0.000
1.000	1.000	173.5	0.000	0.000	BNA3(3)_336_338_L_0					
85 D	34.08	-3.2310E-03	176.0	170.4	336.0	221.6	UL-RL	1.5609E+04	-14.80	0.000
1.000	1.000	170.4	0.000	0.000	BNA3(3)_336_338_L_0					
86 D	33.47	-3.6056E-03	180.0	167.4	340.0	224.2	UL-RL	1.5609E+04	-15.00	0.000
1.000	1.000	167.4	0.000	0.000	BNA3(3)_336_338_L_0					
87 D	32.88	-3.9783E-03	184.0	164.4	344.0	226.8	UL-RL	1.5609E+04	-15.20	0.000
1.000	1.000	164.4	0.000	0.000	BNA3(3)_336_338_L_0					
88 D	32.26	-4.3496E-03	188.0	161.3	348.0	229.6	UL-RL	1.5609E+04	-15.40	0.000
1.000	1.000	161.3	0.000	0.000	BNA3(3)_336_338_L_0					
89 D	31.64	-4.7203E-03	192.0	158.2	352.0	232.5	UL-RL	1.5609E+04	-15.60	0.000
1.000	1.000	158.2	0.000	0.000	BNA3(3)_336_338_L_0					
90 D	31.02	-5.0905E-03	196.0	155.1	356.0	235.4	UL-RL	1.5609E+04	-15.80	0.000
1.000	1.000	155.1	0.000	0.000	BNA3(3)_336_338_L_0					
91 D	15.20	-5.4607E-03	200.0	152.0	360.0	238.2	UL-RL	1.5609E+04	-16.00	0.000
1.000	1.000	152.0	0.000	0.000	BNA3(3)_336_338_L_0					

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|                PARATIE PLUS 2014 NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Sept23, 2015*                |
|                                                                                                                                            |
|                                                                                                                                            |
|                NewProject.BaseDesignSection_25.Nominal_60                                                                              |
|                Exe Time :29 June 2020    21:03:22                                                                                          |
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New Project

STRESS RESULTS FOR GROUP NO. 3

WallElement_30 :
ELEMENT TYPE 2 NO.OF ELEMENTS. IN THIS GROUP 90
CURRENT TIME IS 5.0000

WALL2D ELEMENT

EL	TA	TB	MA	MB
1	-1.08715E-08	1.08715E-08	-1.08808E-09	-8.08271E-10
2	0.69560	-0.69560	-1.59167E-09	0.13912
3	1.8830	-1.8830	-0.13912	0.51572
4	3.5623	-3.5623	-0.51572	1.2282
5	5.7333	-5.7333	-1.2282	2.3748
6	8.3962	-8.3962	-2.3748	4.0541
7	11.551	-11.551	-4.0541	6.3642
8	15.197	-15.197	-6.3642	9.4037
9	19.336	-19.336	-9.4037	13.271
10	23.966	-23.966	-13.271	18.064
11	29.088	-29.088	-18.064	23.882
12	34.701	-34.701	-23.882	30.822
13	40.806	-40.806	-30.822	38.983
14	47.403	-47.403	-38.983	48.464
15	54.492	-54.492	-48.464	59.362
16	-47.813	47.813	-59.362	49.800
17	-39.741	39.741	-49.800	41.851
18	-31.178	31.178	-41.851	35.616
19	-22.124	22.124	-35.616	31.191
20	-12.578	12.578	-31.191	28.675
21	-5.4241	5.4241	-28.675	27.590
22	2.0686	-2.0686	-27.590	28.004
23	9.8989	-9.8989	-28.004	29.984
24	18.066	-18.066	-29.984	33.597
25	26.569	-26.569	-33.597	38.911
26	35.407	-35.407	-38.911	45.992
27	44.578	-44.578	-45.992	54.908
28	54.080	-54.080	-54.908	65.724
29	63.914	-63.914	-65.724	78.507
30	74.075	-74.075	-78.507	93.322
31	84.563	-84.563	-93.322	110.23
32	95.375	-95.375	-110.23	129.31
33	106.51	-106.51	-129.31	150.61
34	117.96	-117.96	-150.61	174.20
35	129.73	-129.73	-174.20	200.15
36	89.599	-89.599	-200.15	218.07
37	101.99	-101.99	-218.07	238.47
38	114.68	-114.68	-238.47	261.40
39	127.67	-127.67	-261.40	286.94
40	140.97	-140.97	-286.94	315.13
41	154.56	-154.56	-315.13	346.04
42	165.27	-165.27	-346.04	379.10
43	173.69	-173.69	-379.10	413.84
44	179.83	-179.83	-413.84	449.80
45	183.68	-183.68	-449.80	486.54
46	185.25	-185.25	-486.54	523.59
47	184.52	-184.52	-523.59	560.49
48	181.50	-181.50	-560.49	596.79
49	176.20	-176.20	-596.79	632.03
50	168.60	-168.60	-632.03	665.75
51	158.72	-158.72	-665.75	697.50
52	146.55	-146.55	-697.50	726.81
53	132.09	-132.09	-726.81	753.22
54	115.34	-115.34	-753.22	776.29
55	96.313	-96.313	-776.29	795.56
56	75.001	-75.001	-795.56	810.56
57	52.326	-52.326	-810.56	821.02
58	30.496	-30.496	-821.02	827.12
59	9.4788	-9.4788	-827.12	829.02
60	-10.758	10.758	-829.02	826.86
61	-30.247	30.247	-826.86	820.81
62	-49.021	49.021	-820.81	811.01
63	-67.110	67.110	-811.01	797.59
64	-84.546	84.546	-797.59	780.68
65	-101.36	101.36	-780.68	760.41
66	-117.58	117.58	-760.41	736.89
67	-133.23	133.23	-736.89	710.25
68	-148.35	148.35	-710.25	680.58
69	-161.68	161.68	-680.58	648.24
70	-173.06	173.06	-648.24	613.63

71	-182.58	182.58	-613.63	577.11
72	-190.28	190.28	-577.11	539.05
73	-196.25	196.25	-539.05	499.80
74	-200.67	200.67	-499.80	459.67
75	-203.66	203.66	-459.67	418.94
76	-205.26	205.26	-418.94	377.89
77	-205.30	205.30	-377.89	336.83
78	-202.91	202.91	-336.83	296.24
79	-198.16	198.16	-296.24	256.61
80	-191.09	191.09	-256.61	218.39
81	-181.99	181.99	-218.39	182.00
82	-170.88	170.88	-182.00	147.82
83	-157.80	157.80	-147.82	116.26
84	-142.82	142.82	-116.26	87.696
85	-125.98	125.98	-87.696	62.499
86	-107.29	107.29	-62.499	41.041
87	-86.753	86.753	-41.041	23.691
88	-64.360	64.360	-23.691	10.819
89	-40.104	40.104	-10.819	2.7978
90	-13.988	13.988	-2.7978	-9.11324E-11

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|          PARATIE PLUS 2014 NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Sept23, 2015*          |
|                                                                                                    |
|          NewProject.BaseDesignSection_25.Nominal_60                                             |
|          Exe Time :29 June 2020      21:03:22                                                    |
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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 . 4

Tieback_341 :
 ELEMENT TYPE 6 NO.OF ELEMENTS. IN THIS GROUP 1
 C U R R E N T T I M E I S 5.0000

POST-TENSION 2D-BOUNDARY ELEMENT

	EL	FORCE	d0	EDISPL	pl. eps	K	-ve limit	+ve limit	
ANCHOR	1	116.94	-6.73664E-04	4.96432E-02	0.0000	1219.8	0.0000	0.0000	ELASTIC ORIGINAL YOUNG MODU-
LUS									

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|                PARATIE PLUS 2014 NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Sept23, 2015*                |
|                                                                                                                                            |
|                NewProject.BaseDesignSection_25.Nominal_60                                                                              |
|                Exe Time :29 June 2020    21:03:22                                                                                          |
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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 . 5

Tieback_342 :
ELEMENT TYPE 6 NO.OF ELEMENTS. IN THIS GROUP 1
C U R R E N T T I M E I S 5.0000

POST-TENSION 2D-BOUNDARY ELEMENT

EL	FORCE	d0	EDISPL	pl. eps	K	-ve limit	+ve limit		
ANCHOR	1	55.560	-4.54756E-04	-4.54756E-04	0.0000	0.0000	0.0000	0.0000	BORN NOW JUST ACTIVATED

ITER 0 RNORM = 0.000 RMNORM= 0.000
RINORM=0.2589E+07 RIMNOR=0.3330E+08
RENORM= 2549. REMNOR=0.1967E-16 RATIO =0.3138E-01 TOLER =0.1000E-03 NOT CONVERGED
RFMAX = 205.3 RMMAX = 829.0
RTSMAL=0.1000E-02 RMSMAL=0.1000E-02
RDT =0.2589E+07 RDR =0.3330E+08
RATIOT=0.3138E-01 RATIO= 0.000
MAX UN= 13.64 IEQ= 111 NODE 56 DOF 1 Y-DISPL.F
MIN UN=-.3766E-07 IEQ= 5 NODE 3 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 2 RNORM = 0.000 RMNORM= 0.000
RINORM=0.2589E+07 RIMNOR=0.3330E+08
RENORM= 375.7 REMNOR=0.2296E-16 RATIO =0.1205E-01 TOLER =0.1000E-03 NOT CONVERGED
RFMAX = 205.3 RMMAX = 829.0
RTSMAL=0.1000E-02 RMSMAL=0.1000E-02
RDT =0.2589E+07 RDR =0.3330E+08
RATIOT=0.1205E-01 RATIO= 0.000
MAX UN= 3.906 IEQ= 123 NODE 62 DOF 1 Y-DISPL.F
MIN UN=-.2846 IEQ= 179 NODE 90 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 3 RNORM = 0.000 RMNORM= 0.000
RINORM=0.2589E+07 RIMNOR=0.3330E+08
RENORM= 94.73 REMNOR=0.3180E-16 RATIO =0.6049E-02 TOLER =0.1000E-03 NOT CONVERGED
RFMAX = 205.3 RMMAX = 829.0
RTSMAL=0.1000E-02 RMSMAL=0.1000E-02
RDT =0.2589E+07 RDR =0.3330E+08
RATIOT=0.6049E-02 RATIO= 0.000
MAX UN= 4.198 IEQ= 139 NODE 70 DOF 1 Y-DISPL.F
MIN UN=-.2623E-07 IEQ= 61 NODE 31 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 4 RNORM = 0.000 RMNORM= 0.000
RINORM=0.2589E+07 RIMNOR=0.3330E+08
RENORM= 2.703 REMNOR=0.5678E-16 RATIO =0.1022E-02 TOLER =0.1000E-03 NOT CONVERGED
RFMAX = 205.3 RMMAX = 829.0
RTSMAL=0.1000E-02 RMSMAL=0.1000E-02
RDT =0.2589E+07 RDR =0.3330E+08
RATIOT=0.1022E-02 RATIO= 0.000
MAX UN= 1.527 IEQ= 145 NODE 73 DOF 1 Y-DISPL.F
MIN UN=-.5686 IEQ= 169 NODE 85 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 5 RNORM = 0.000 RMNORM= 0.000
RINORM=0.2589E+07 RIMNOR=0.3330E+08
RENORM=0.5929E-05 REMNOR=0.4041E-16 RATIO =0.1513E-05 TOLER =0.1000E-03 CONVERGED !
RFMAX = 205.3 RMMAX = 829.0
RTSMAL=0.1000E-02 RMSMAL=0.1000E-02
RDT =0.2589E+07 RDR =0.3330E+08
RATIOT=0.1513E-05 RATIO= 0.000
MAX UN=0.4607E-07 IEQ= 53 NODE 27 DOF 1 Y-DISPL.F
MIN UN=-.2434E-02 IEQ= 167 NODE 84 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

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|                PARATIE PLUS 2014 NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Sept23, 2015*                |
|                                                                                                                                            |
|                                                                                                                                            |
|                NewProject.BaseDesignSection_25.Nominal_60                                                                              |
|                Exe Time :29 June 2020      21:03:22                                                                              |
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New Project
SOLUTION REACHED USING 5 ITERATIONS ON 40

PRINT OUT FOR TIME STEP 6 (AT TIME 6.000)

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

	Y-DISPL.F (02)	X-ROT. F (04)	(
1	0.1010284	-7.1096106E-03	
2	9.9606487E-02	-7.1096106E-03	
3	9.8184565E-02	-7.1096030E-03	
4	9.6762648E-02	-7.1095651E-03	
5	9.5340744E-02	-7.1094590E-03	
6	9.3918871E-02	-7.1092316E-03	
7	9.2497062E-02	-7.1088147E-03	
8	9.1075363E-02	-7.1081248E-03	
9	8.9653838E-02	-7.1070636E-03	
10	8.8232571E-02	-7.1055171E-03	
11	8.6811672E-02	-7.1033567E-03	
12	8.5391278E-02	-7.1004382E-03	
13	8.3971557E-02	-7.0966024E-03	
14	8.2552710E-02	-7.0916750E-03	
15	8.1134973E-02	-7.0854665E-03	
16	7.9718623E-02	-7.0777722E-03	
17	7.8303842E-02	-7.0704261E-03	
18	7.6890309E-02	-7.0652469E-03	
19	7.5477615E-02	-7.0619845E-03	
20	7.4065405E-02	-7.0603736E-03	
21	7.2653374E-02	-7.0601336E-03	
22	7.1241276E-02	-7.0610268E-03	
23	6.9828901E-02	-7.0628607E-03	
24	6.8416082E-02	-7.0654326E-03	
25	6.7002693E-02	-7.0685296E-03	
26	6.5588650E-02	-7.0719287E-03	
27	6.4173910E-02	-7.0753967E-03	
28	6.2758496E-02	-7.0786902E-03	
29	6.1342462E-02	-7.0815557E-03	
30	5.9925920E-02	-7.0837294E-03	
31	5.8509042E-02	-7.0849375E-03	
32	5.7092035E-02	-7.0848960E-03	
33	5.5675186E-02	-7.0833105E-03	
34	5.4258834E-02	-7.0798767E-03	
35	5.2843380E-02	-7.0742800E-03	
36	5.1429288E-02	-7.0661956E-03	
37	5.0017012E-02	-7.0564554E-03	
38	4.8606762E-02	-7.0458813E-03	
39	4.7198746E-02	-7.0341179E-03	
40	4.5793225E-02	-7.0207997E-03	
41	4.4390555E-02	-7.0055511E-03	
42	4.2991159E-02	-6.9879863E-03	
43	4.1595541E-02	-6.9677093E-03	
44	4.0204290E-02	-6.9443141E-03	
45	3.8818058E-02	-6.9173840E-03	
46	3.7437601E-02	-6.8864926E-03	
47	3.6063754E-02	-6.8512032E-03	
48	3.4697440E-02	-6.8111110E-03	
49	3.3339652E-02	-6.7658823E-03	
50	3.1991453E-02	-6.7152530E-03	
51	3.0653931E-02	-6.6590272E-03	
52	2.9328224E-02	-6.5970786E-03	
53	2.8015485E-02	-6.5293499E-03	
54	2.6716869E-02	-6.4558526E-03	
55	2.5433529E-02	-6.3766679E-03	
56	2.4166577E-02	-6.2919446E-03	
57	2.2917106E-02	-6.2019019E-03	
58	2.1686152E-02	-6.1068273E-03	
59	2.0474687E-02	-6.0070777E-03	
60	1.9283610E-02	-5.9030793E-03	
61	1.8113711E-02	-5.7953259E-03	
62	1.6965664E-02	-5.6843790E-03	
63	1.5840157E-02	-5.5708826E-03	
64	1.4737492E-02	-5.4555246E-03	
65	1.3658020E-02	-5.3390813E-03	
66	1.2601879E-02	-5.2223440E-03	
67	1.1569051E-02	-5.1060729E-03	
68	1.0559370E-02	-4.9909955E-03	
69	9.5725267E-03	-4.8778075E-03	
70	8.6080766E-03	-4.7671738E-03	
71	7.6654446E-03	-4.6597291E-03	
72	6.7439320E-03	-4.5560788E-03	
73	5.8427216E-03	-4.4568000E-03	
74	4.9608839E-03	-4.3624423E-03	

75 4.0973822E-03 -4.2735220E-03
76 3.2510822E-03 -4.1904946E-03
77 2.4207667E-03 -4.1137322E-03
78 1.6051485E-03 -4.0435829E-03
79 8.0287228E-04 -3.9803532E-03
80 1.2533161E-05 -3.9242342E-03
81 -7.6730029E-04 -3.8752986E-03
82 -1.5380616E-03 -3.8334931E-03
83 -2.3011606E-03 -3.7986344E-03
84 -3.0579577E-03 -3.7704102E-03
85 -3.8097379E-03 -3.7483844E-03
86 -4.5576879E-03 -3.7320051E-03
87 -5.3028722E-03 -3.7206089E-03
88 -6.0462120E-03 -3.7134214E-03
89 -6.7884623E-03 -3.7095571E-03
90 -7.5301899E-03 -3.7080195E-03
91 -8.2717884E-03 -3.7077008E-03

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|                PARATIE PLUS 2014 NLS ENGINE RELEASE  2016  FULL VERSION  *Build date: Sept23, 2015*                |
|                                                                                                                                            |
|                NewProject.BaseDesignSection_25.Nominal_60                                                                              |
|                Exe Time :29 June 2020    21:03:22                                                                                          |
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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 91
CURRENT TIME IS 6.0000

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 LAYER	MAX-H-P	STATE	STIFFNESS	Z-LEVEL	PORE	E FAC-
1 D	0.000	-0.1010	0.000	0.000	0.000	0.000	ACTIVE	0.000	2.000	0.000	
1.000	1.000	0.000	0.000	0.000	FRANA_334_8_L_0						
2 D	0.4880	-9.9606E-02	4.000	2.440	4.000	6.956	ACTIVE	0.000	1.800	0.000	
1.000	1.000	2.440	0.000	0.000	FRANA_334_8_L_0						
3 D	0.9760	-9.8185E-02	8.000	4.880	8.000	9.519	ACTIVE	0.000	1.600	0.000	
1.000	1.000	4.880	0.000	0.000	FRANA_334_8_L_0						
4 D	1.464	-9.6763E-02	12.00	7.320	12.00	12.08	ACTIVE	0.000	1.400	0.000	
1.000	1.000	7.320	0.000	0.000	FRANA_334_8_L_0						
5 D	1.952	-9.5341E-02	16.00	9.760	16.00	14.65	ACTIVE	0.000	1.200	0.000	
1.000	1.000	9.760	0.000	0.000	FRANA_334_8_L_0						
6 D	2.440	-9.3919E-02	20.00	12.20	20.00	17.21	ACTIVE	0.000	1.000	0.000	
1.000	1.000	12.20	0.000	0.000	FRANA_334_8_L_0						
7 D	2.928	-9.2497E-02	24.00	14.64	24.00	19.77	ACTIVE	0.000	0.8000	0.000	
1.000	1.000	14.64	0.000	0.000	FRANA_334_8_L_0						
8 D	3.416	-9.1075E-02	28.00	17.08	28.00	22.33	ACTIVE	0.000	0.6000	0.000	
1.000	1.000	17.08	0.000	0.000	FRANA_334_8_L_0						
9 D	3.904	-8.9654E-02	32.00	19.52	32.00	24.90	ACTIVE	0.000	0.4000	0.000	
1.000	1.000	19.52	0.000	0.000	FRANA_334_8_L_0						
10 D	4.392	-8.8233E-02	36.00	21.96	36.00	27.76	ACTIVE	0.000	0.2000	0.000	
1.000	1.000	21.96	0.000	0.000	FRANA_334_8_L_0						
11 D	4.880	-8.6812E-02	40.00	24.40	40.00	30.84	ACTIVE	0.000	-1.4901E-07	0.000	
1.000	1.000	24.40	0.000	0.000	FRANA_334_8_L_0						
12 D	5.368	-8.5391E-02	44.00	26.84	44.00	33.92	ACTIVE	0.000	-0.2000	0.000	
1.000	1.000	26.84	0.000	0.000	FRANA_334_8_L_0						
13 D	5.856	-8.3972E-02	48.00	29.28	48.00	37.01	ACTIVE	0.000	-0.4000	0.000	
1.000	1.000	29.28	0.000	0.000	FRANA_334_8_L_0						
14 D	6.344	-8.2553E-02	52.00	31.72	52.00	40.09	ACTIVE	0.000	-0.6000	0.000	
1.000	1.000	31.72	0.000	0.000	FRANA_334_8_L_0						
15 D	6.832	-8.1135E-02	56.00	34.16	56.00	43.17	ACTIVE	0.000	-0.8000	0.000	
1.000	1.000	34.16	0.000	0.000	FRANA_334_8_L_0						
16 D	7.321	-7.9719E-02	60.00	36.60	60.00	46.25	ACTIVE	0.000	-1.000	0.000	
1.000	1.000	36.60	0.000	0.000	FRANA_334_8_L_0						
17 D	7.809	-7.8304E-02	64.01	39.04	64.01	49.34	ACTIVE	0.000	-1.200	0.000	
1.000	1.000	39.04	0.000	0.000	FRANA_334_8_L_0						
18 D	8.297	-7.6890E-02	68.01	41.48	68.01	52.42	ACTIVE	0.000	-1.400	0.000	
1.000	1.000	41.48	0.000	0.000	FRANA_334_8_L_0						
19 D	8.785	-7.5478E-02	72.01	43.92	72.01	55.50	ACTIVE	0.000	-1.600	0.000	
1.000	1.000	43.92	0.000	0.000	FRANA_334_8_L_0						
20 D	9.273	-7.4065E-02	76.01	46.37	76.01	58.58	ACTIVE	0.000	-1.800	0.000	
1.000	1.000	46.37	0.000	0.000	FRANA_334_8_L_0						
21 D	6.033	-7.2653E-02	80.01	30.17	80.01	47.50	ACTIVE	0.000	-2.000	0.000	
1.000	1.000	30.17	0.000	0.000	BNA3(2)_335_337_L_0						
22 D	6.361	-7.1241E-02	84.01	31.80	84.01	49.88	ACTIVE	0.000	-2.200	0.000	
1.000	1.000	31.80	0.000	0.000	BNA3(2)_335_337_L_0						
23 D	6.688	-6.9829E-02	88.01	33.44	88.01	52.25	ACTIVE	0.000	-2.400	0.000	
1.000	1.000	33.44	0.000	0.000	BNA3(2)_335_337_L_0						
24 D	7.015	-6.8416E-02	92.02	35.08	92.02	54.62	ACTIVE	0.000	-2.600	0.000	
1.000	1.000	35.08	0.000	0.000	BNA3(2)_335_337_L_0						
25 D	7.343	-6.7003E-02	96.02	36.71	96.02	56.99	ACTIVE	0.000	-2.800	0.000	
1.000	1.000	36.71	0.000	0.000	BNA3(2)_335_337_L_0						
26 D	7.670	-6.5589E-02	100.0	38.35	100.0	59.36	ACTIVE	0.000	-3.000	0.000	
1.000	1.000	38.35	0.000	0.000	BNA3(2)_335_337_L_0						
27 D	7.997	-6.4174E-02	104.0	39.99	104.0	61.74	ACTIVE	0.000	-3.200	0.000	
1.000	1.000	39.99	0.000	0.000	BNA3(2)_335_337_L_0						
28 D	8.325	-6.2758E-02	108.0	41.62	108.0	64.11	ACTIVE	0.000	-3.400	0.000	
1.000	1.000	41.62	0.000	0.000	BNA3(2)_335_337_L_0						
29 D	8.652	-6.1342E-02	112.0	43.26	112.0	66.48	ACTIVE	0.000	-3.600	0.000	
1.000	1.000	43.26	0.000	0.000	BNA3(2)_335_337_L_0						
30 D	8.980	-5.9926E-02	116.0	44.90	116.0	68.85	ACTIVE	0.000	-3.800	0.000	
1.000	1.000	44.90	0.000	0.000	BNA3(2)_335_337_L_0						
31 D	9.307	-5.8509E-02	120.0	46.54	120.0	71.22	ACTIVE	0.000	-4.000	0.000	
1.000	1.000	46.54	0.000	0.000	BNA3(2)_335_337_L_0						
32 D	9.635	-5.7092E-02	124.0	48.17	124.0	73.59	ACTIVE	0.000	-4.200	0.000	
1.000	1.000	48.17	0.000	0.000	BNA3(2)_335_337_L_0						
33 D	9.962	-5.5675E-02	128.0	49.81	128.0	75.96	ACTIVE	0.000	-4.400	0.000	
1.000	1.000	49.81	0.000	0.000	BNA3(2)_335_337_L_0						

34 D	10.29	-5.4259E-02	132.0	51.45	132.0	78.33	ACTIVE	0.000	-4.600	0.000
1.000	1.000	51.45	0.000	0.000	BNA3(2)_335_337_L_0					
35 D	10.62	-5.2843E-02	136.0	53.09	136.0	80.69	ACTIVE	0.000	-4.800	0.000
1.000	1.000	53.09	0.000	0.000	BNA3(2)_335_337_L_0					
36 D	10.94	-5.1429E-02	140.1	54.72	140.1	83.06	ACTIVE	0.000	-5.000	0.000
1.000	1.000	54.72	0.000	0.000	BNA3(2)_335_337_L_0					
37 D	11.27	-5.0017E-02	144.1	56.36	144.1	85.43	ACTIVE	0.000	-5.200	0.000
1.000	1.000	56.36	0.000	0.000	BNA3(2)_335_337_L_0					
38 D	11.60	-4.8607E-02	148.1	58.00	148.1	87.80	ACTIVE	0.000	-5.400	0.000
1.000	1.000	58.00	0.000	0.000	BNA3(2)_335_337_L_0					
39 D	11.93	-4.7199E-02	152.1	59.64	152.1	90.16	ACTIVE	0.000	-5.600	0.000
1.000	1.000	59.64	0.000	0.000	BNA3(2)_335_337_L_0					
40 D	12.25	-4.5793E-02	156.1	61.27	156.1	92.53	ACTIVE	0.000	-5.800	0.000
1.000	1.000	61.27	0.000	0.000	BNA3(2)_335_337_L_0					
41 D	12.58	-4.4391E-02	160.1	62.91	160.1	94.89	ACTIVE	0.000	-6.000	0.000
1.000	1.000	62.91	0.000	0.000	BNA3(2)_335_337_L_0					
42 D	12.91	-4.2991E-02	164.1	64.55	164.1	97.26	ACTIVE	0.000	-6.200	0.000
1.000	1.000	64.55	0.000	0.000	BNA3(2)_335_337_L_0					
43 D	13.24	-4.1596E-02	168.1	66.19	168.1	99.62	ACTIVE	0.000	-6.400	0.000
1.000	1.000	66.19	0.000	0.000	BNA3(2)_335_337_L_0					
44 D	13.57	-4.0204E-02	172.1	67.83	172.1	102.0	ACTIVE	0.000	-6.600	0.000
1.000	1.000	67.83	0.000	0.000	BNA3(2)_335_337_L_0					
45 D	13.89	-3.8818E-02	176.1	69.47	176.1	104.3	ACTIVE	0.000	-6.800	0.000
1.000	1.000	69.47	0.000	0.000	BNA3(2)_335_337_L_0					
46 D	14.22	-3.7438E-02	180.1	71.10	180.1	106.7	ACTIVE	0.000	-7.000	0.000
1.000	1.000	71.10	0.000	0.000	BNA3(2)_335_337_L_0					
47 D	14.55	-3.6064E-02	184.1	72.74	184.1	109.4	ACTIVE	0.000	-7.200	0.000
1.000	1.000	72.74	0.000	0.000	BNA3(2)_335_337_L_0					
48 D	14.88	-3.4697E-02	188.1	74.38	188.1	112.4	ACTIVE	0.000	-7.400	0.000
1.000	1.000	74.38	0.000	0.000	BNA3(2)_335_337_L_0					
49 D	15.20	-3.3340E-02	192.1	76.02	192.1	115.4	ACTIVE	0.000	-7.600	0.000
1.000	1.000	76.02	0.000	0.000	BNA3(2)_335_337_L_0					
50 D	15.53	-3.1991E-02	196.1	77.66	196.1	118.2	ACTIVE	0.000	-7.800	0.000
1.000	1.000	77.66	0.000	0.000	BNA3(2)_335_337_L_0					
51 D	15.86	-3.0654E-02	200.1	79.30	200.1	121.0	ACTIVE	0.000	-8.000	0.000
1.000	1.000	79.30	0.000	0.000	BNA3(2)_335_337_L_0					
52 D	16.19	-2.9328E-02	204.1	80.94	204.1	123.8	ACTIVE	0.000	-8.200	0.000
1.000	1.000	80.94	0.000	0.000	BNA3(2)_335_337_L_0					
53 D	16.52	-2.8015E-02	208.2	82.58	208.2	126.5	ACTIVE	0.000	-8.400	0.000
1.000	1.000	82.58	0.000	0.000	BNA3(2)_335_337_L_0					
54 D	16.84	-2.6717E-02	212.2	84.22	212.2	129.1	ACTIVE	0.000	-8.600	0.000
1.000	1.000	84.22	0.000	0.000	BNA3(2)_335_337_L_0					
55 D	17.17	-2.5434E-02	216.2	85.86	216.2	131.7	ACTIVE	0.000	-8.800	0.000
1.000	1.000	85.86	0.000	0.000	BNA3(2)_335_337_L_0					
56 D	17.50	-2.4167E-02	220.2	87.50	220.2	134.2	ACTIVE	0.000	-9.000	0.000
1.000	1.000	87.50	0.000	0.000	BNA3(2)_335_337_L_0					
57 D	17.83	-2.2917E-02	224.2	89.14	224.2	136.8	ACTIVE	0.000	-9.200	0.000
1.000	1.000	89.14	0.000	0.000	BNA3(2)_335_337_L_0					
58 D	18.16	-2.1686E-02	228.2	90.78	228.2	139.4	ACTIVE	0.000	-9.400	0.000
1.000	1.000	90.78	0.000	0.000	BNA3(2)_335_337_L_0					
59 D	18.48	-2.0475E-02	232.2	92.41	232.2	141.9	ACTIVE	0.000	-9.600	0.000
1.000	1.000	92.41	0.000	0.000	BNA3(2)_335_337_L_0					
60 D	18.81	-1.9284E-02	236.2	94.05	236.2	144.3	ACTIVE	0.000	-9.800	0.000
1.000	1.000	94.05	0.000	0.000	BNA3(2)_335_337_L_0					
61 D	19.14	-1.8114E-02	240.2	95.69	240.2	146.8	ACTIVE	0.000	-10.000	0.000
1.000	1.000	95.69	0.000	0.000	BNA3(2)_335_337_L_0					
62 D	19.47	-1.6966E-02	244.2	97.34	244.2	149.1	ACTIVE	0.000	-10.200	0.000
1.000	1.000	97.34	0.000	0.000	BNA3(2)_335_337_L_0					
63 D	19.80	-1.5840E-02	248.2	98.98	248.2	151.5	ACTIVE	0.000	-10.400	0.000
1.000	1.000	98.98	0.000	0.000	BNA3(2)_335_337_L_0					
64 D	20.12	-1.4737E-02	252.3	100.6	252.3	153.8	ACTIVE	0.000	-10.600	0.000
1.000	1.000	100.6	0.000	0.000	BNA3(2)_335_337_L_0					
65 D	20.45	-1.3658E-02	256.3	102.3	256.3	156.1	ACTIVE	0.000	-10.800	0.000
1.000	1.000	102.3	0.000	0.000	BNA3(2)_335_337_L_0					
66 D	20.78	-1.2602E-02	260.3	103.9	260.3	158.3	ACTIVE	0.000	-11.000	0.000
1.000	1.000	103.9	0.000	0.000	BNA3(2)_335_337_L_0					
67 D	21.11	-1.1569E-02	264.3	105.5	264.3	160.6	ACTIVE	0.000	-11.200	0.000
1.000	1.000	105.5	0.000	0.000	BNA3(2)_335_337_L_0					
68 D	21.44	-1.0559E-02	268.3	107.2	268.3	162.8	ACTIVE	0.000	-11.400	0.000
1.000	1.000	107.2	0.000	0.000	BNA3(2)_335_337_L_0					
69 D	21.76	-9.5725E-03	272.3	108.8	272.3	165.0	ACTIVE	0.000	-11.600	0.000
1.000	1.000	108.8	0.000	0.000	BNA3(2)_335_337_L_0					
70 D	22.09	-8.6081E-03	276.3	110.5	276.3	167.2	ACTIVE	0.000	-11.800	0.000
1.000	1.000	110.5	0.000	0.000	BNA3(2)_335_337_L_0					
71 D	22.42	-7.6654E-03	280.3	112.1	280.3	169.4	ACTIVE	0.000	-12.000	0.000
1.000	1.000	112.1	0.000	0.000	BNA3(2)_335_337_L_0					
72 D	22.75	-6.7439E-03	284.4	113.7	284.4	171.5	ACTIVE	0.000	-12.200	0.000
1.000	1.000	113.7	0.000	0.000	BNA3(2)_335_337_L_0					
73 D	23.08	-5.8427E-03	288.4	115.4	288.4	173.7	ACTIVE	0.000	-12.400	0.000
1.000	1.000	115.4	0.000	0.000	BNA3(2)_335_337_L_0					
74 D	23.80	-4.9609E-03	292.4	119.0	292.4	176.9	UL-RL	1.0424E+04	-12.600	0.000
1.000	1.000	119.0	0.000	0.000	BNA3(2)_335_337_L_0					
75 D	25.99	-4.0974E-03	296.4	130.0	296.4	180.7	UL-RL	1.0424E+04	-12.800	0.000
1.000	1.000	130.0	0.000	0.000	BNA3(2)_335_337_L_0					
76 D	28.15	-3.2511E-03	300.4	140.8	300.4	184.3	UL-RL	1.0424E+04	-13.000	0.000
1.000	1.000	140.8	0.000	0.000	BNA3(2)_335_337_L_0					
77 D	32.32	-2.4208E-03	304.4	161.6	304.4	212.1	UL-RL	1.4415E+04	-13.200	0.000
1.000	1.000	161.6	0.000	0.000	BNA3(3)_336_338_L_0					
78 D	35.10	-1.6051E-03	308.4	175.5	308.4	216.4	UL-RL	1.4415E+04	-13.400	0.000
1.000	1.000	175.5	0.000	0.000	BNA3(3)_336_338_L_0					
79 D	37.86	-8.0287E-04	312.4	189.3	312.4	220.6	UL-RL	1.4415E+04	-13.600	0.000
1.000	1.000	189.3	0.000	0.000	BNA3(3)_336_338_L_0					

80 D	40.57	-1.2533E-05	316.5	202.8	316.5	224.8	UL-RL	1.4415E+04	-13.80	0.000
1.000	1.000		202.8	0.000	0.000	BNA3(3)_336_338_L_0				
81 D	43.03	7.6730E-04	320.5	215.2	320.5	230.8	UL-RL	1.4415E+04	-14.00	0.000
1.000	1.000		215.2	0.000	0.000	BNA3(3)_336_338_L_0				
82 D	45.48	1.5381E-03	324.5	227.4	324.5	236.7	UL-RL	1.4415E+04	-14.20	0.000
1.000	1.000		227.4	0.000	0.000	BNA3(3)_336_338_L_0				
83 D	47.90	2.3012E-03	328.5	239.5	328.5	242.6	UL-RL	1.4415E+04	-14.40	0.000
1.000	1.000		239.5	0.000	0.000	BNA3(3)_336_338_L_0				
84 D	50.08	3.0580E-03	332.5	250.4	332.5	250.4	UL-RL	1.4415E+04	-14.60	0.000
1.000	1.000		250.4	0.000	0.000	BNA3(3)_336_338_L_0				
85 D	52.02	3.8097E-03	336.5	260.1	336.5	260.1	UL-RL	1.4415E+04	-14.80	0.000
1.000	1.000		260.1	0.000	0.000	BNA3(3)_336_338_L_0				
86 D	53.95	4.5577E-03	340.5	269.7	340.5	269.7	V-C	9009.	-15.00	0.000
1.000	1.000		269.7	0.000	0.000	BNA3(3)_336_338_L_0				
87 D	55.87	5.3029E-03	344.6	279.3	344.6	279.3	V-C	9009.	-15.20	0.000
1.000	1.000		279.3	0.000	0.000	BNA3(3)_336_338_L_0				
88 D	57.79	6.0462E-03	348.6	288.9	348.6	288.9	V-C	9009.	-15.40	0.000
1.000	1.000		288.9	0.000	0.000	BNA3(3)_336_338_L_0				
89 D	59.70	6.7885E-03	352.6	298.5	352.6	298.5	V-C	9009.	-15.60	0.000
1.000	1.000		298.5	0.000	0.000	BNA3(3)_336_338_L_0				
90 D	61.62	7.5302E-03	356.6	308.1	356.6	308.1	V-C	9009.	-15.80	0.000
1.000	1.000		308.1	0.000	0.000	BNA3(3)_336_338_L_0				
91 D	31.77	8.2718E-03	360.6	317.7	360.6	317.7	V-C	9009.	-16.00	0.000
1.000	1.000		317.7	0.000	0.000	BNA3(3)_336_338_L_0				

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|                PARATIE PLUS 2014 NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Sept23, 2015*                |
|                                                                                                                    |
|                NewProject.BaseDesignSection_25.Nominal_60                                                         |
|                Exe Time :29 June 2020      21:03:22                                                                |
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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 91
CURRENT TIME IS 6.0000

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 LAYER	MAX-H-P	STATE	STIFFNESS	Z-LEVEL	PORE	E FAC-
1	0.000	--	--	--	--	--	REMOVED	--	2.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
2	0.000	--	--	--	--	--	REMOVED	--	1.800	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
3	0.000	--	--	--	--	--	REMOVED	--	1.600	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
4	0.000	--	--	--	--	--	REMOVED	--	1.400	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
5	0.000	--	--	--	--	--	REMOVED	--	1.200	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
6	0.000	--	--	--	--	--	REMOVED	--	1.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
7	0.000	--	--	--	--	--	REMOVED	--	0.8000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
8	0.000	--	--	--	--	--	REMOVED	--	0.6000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
9	0.000	--	--	--	--	--	REMOVED	--	0.4000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
10	0.000	--	--	--	--	--	REMOVED	--	0.2000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
11	0.000	--	--	--	--	--	REMOVED	--	-1.4901E-07	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
12	0.000	--	--	--	--	--	REMOVED	--	-0.2000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
13	0.000	--	--	--	--	--	REMOVED	--	-0.4000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
14	0.000	--	--	--	--	--	REMOVED	--	-0.6000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
15	0.000	--	--	--	--	--	REMOVED	--	-0.8000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
16	0.000	--	--	--	--	--	REMOVED	--	-1.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
17	0.000	--	--	--	--	--	REMOVED	--	-1.200	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
18	0.000	--	--	--	--	--	REMOVED	--	-1.400	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
19	0.000	--	--	--	--	--	REMOVED	--	-1.600	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
20	0.000	--	--	--	--	--	REMOVED	--	-1.800	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
21	0.000	--	--	--	--	--	REMOVED	--	-2.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
22	0.000	--	--	--	--	--	REMOVED	--	-2.200	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
23	0.000	--	--	--	--	--	REMOVED	--	-2.400	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
24	0.000	--	--	--	--	--	REMOVED	--	-2.600	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
25	0.000	--	--	--	--	--	REMOVED	--	-2.800	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
26	0.000	--	--	--	--	--	REMOVED	--	-3.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
27	0.000	--	--	--	--	--	REMOVED	--	-3.200	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
28	0.000	--	--	--	--	--	REMOVED	--	-3.400	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
29	0.000	--	--	--	--	--	REMOVED	--	-3.600	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
30	0.000	--	--	--	--	--	REMOVED	--	-3.800	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
31	0.000	--	--	--	--	--	REMOVED	--	-4.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
32	0.000	--	--	--	--	--	REMOVED	--	-4.200	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
33	0.000	--	--	--	--	--	REMOVED	--	-4.400	0.000	
1.000	1.000	0.000	0.000	0.000	not available						

34	0.000	--	--	--	--	--	REMOVED	--	-4.600	0.000
1.000	1.000	0.000	0.000	0.000	0.000	not available				
35	0.000	--	--	--	--	--	REMOVED	--	-4.800	0.000
1.000	1.000	0.000	0.000	0.000	0.000	not available				
36	0.000	--	--	--	--	--	REMOVED	--	-5.000	0.000
1.000	1.000	0.000	0.000	0.000	0.000	not available				
37	0.000	--	--	--	--	--	REMOVED	--	-5.200	0.000
1.000	1.000	0.000	0.000	0.000	0.000	not available				
38	0.000	--	--	--	--	--	REMOVED	--	-5.400	0.000
1.000	1.000	0.000	0.000	0.000	0.000	not available				
39	0.000	--	--	--	--	--	REMOVED	--	-5.600	0.000
1.000	1.000	0.000	0.000	0.000	0.000	not available				
40	0.000	--	--	--	--	--	REMOVED	--	-5.800	0.000
1.000	1.000	0.000	0.000	0.000	0.000	not available				
41	0.000	--	--	--	--	--	REMOVED	--	-6.000	0.000
1.000	1.000	0.000	0.000	0.000	0.000	not available				
42	0.000	--	--	--	--	--	REMOVED	--	-6.200	0.000
1.000	1.000	0.000	0.000	0.000	0.000	not available				
43	0.000	--	--	--	--	--	REMOVED	--	-6.400	0.000
1.000	1.000	0.000	0.000	0.000	0.000	not available				
44	0.000	--	--	--	--	--	REMOVED	--	-6.600	0.000
1.000	1.000	0.000	0.000	0.000	0.000	not available				
45	0.000	--	--	--	--	--	REMOVED	--	-6.800	0.000
1.000	1.000	0.000	0.000	0.000	0.000	not available				
46	0.000	--	--	--	--	--	REMOVED	--	-7.000	0.000
1.000	1.000	0.000	0.000	0.000	0.000	not available				
47 D	2.703	3.6064E-02	2.000	13.51	110.4	184.0	PASSIVE	0.000	-7.200	0.000
1.000	1.000	13.51	0.000	0.000	0.000	BNA3(2)_335_337_L_0				
48 D	5.253	3.4697E-02	6.000	26.26	112.1	188.0	PASSIVE	0.000	-7.400	0.000
1.000	1.000	26.26	0.000	0.000	0.000	BNA3(2)_335_337_L_0				
49 D	7.802	3.3340E-02	10.00	39.01	113.8	192.0	PASSIVE	0.000	-7.600	0.000
1.000	1.000	39.01	0.000	0.000	0.000	BNA3(2)_335_337_L_0				
50 D	10.35	3.1991E-02	14.00	51.76	121.9	196.0	PASSIVE	0.000	-7.800	0.000
1.000	1.000	51.76	0.000	0.000	0.000	BNA3(2)_335_337_L_0				
51 D	12.90	3.0654E-02	18.00	64.51	134.6	200.0	PASSIVE	0.000	-8.000	0.000
1.000	1.000	64.51	0.000	0.000	0.000	BNA3(2)_335_337_L_0				
52 D	15.45	2.9328E-02	22.00	77.25	147.4	204.0	PASSIVE	0.000	-8.200	0.000
1.000	1.000	77.25	0.000	0.000	0.000	BNA3(2)_335_337_L_0				
53 D	18.00	2.8015E-02	26.00	90.00	160.1	208.0	PASSIVE	0.000	-8.400	0.000
1.000	1.000	90.00	0.000	0.000	0.000	BNA3(2)_335_337_L_0				
54 D	20.55	2.6717E-02	30.00	102.8	172.9	212.0	PASSIVE	0.000	-8.600	0.000
1.000	1.000	102.8	0.000	0.000	0.000	BNA3(2)_335_337_L_0				
55 D	23.10	2.5434E-02	34.00	115.5	185.6	216.0	PASSIVE	0.000	-8.800	0.000
1.000	1.000	115.5	0.000	0.000	0.000	BNA3(2)_335_337_L_0				
56 D	25.65	2.4167E-02	38.00	128.2	198.4	220.0	PASSIVE	0.000	-9.000	0.000
1.000	1.000	128.2	0.000	0.000	0.000	BNA3(2)_335_337_L_0				
57 D	28.20	2.2917E-02	42.00	141.0	206.5	224.0	PASSIVE	0.000	-9.200	0.000
1.000	1.000	141.0	0.000	0.000	0.000	BNA3(2)_335_337_L_0				
58 D	30.75	2.1686E-02	46.00	153.7	203.6	228.0	PASSIVE	0.000	-9.400	0.000
1.000	1.000	153.7	0.000	0.000	0.000	BNA3(2)_335_337_L_0				
59 D	33.30	2.0475E-02	50.00	166.5	200.9	232.0	PASSIVE	0.000	-9.600	0.000
1.000	1.000	166.5	0.000	0.000	0.000	BNA3(2)_335_337_L_0				
60 D	35.85	1.9284E-02	54.00	179.2	198.4	236.0	PASSIVE	0.000	-9.800	0.000
1.000	1.000	179.2	0.000	0.000	0.000	BNA3(2)_335_337_L_0				
61 D	38.40	1.8114E-02	58.00	192.0	196.1	240.0	PASSIVE	0.000	-10.000	0.000
1.000	1.000	192.0	0.000	0.000	0.000	BNA3(2)_335_337_L_0				
62 D	40.95	1.6966E-02	62.00	204.7	204.7	244.0	PASSIVE	0.000	-10.200	0.000
1.000	1.000	204.7	0.000	0.000	0.000	BNA3(2)_335_337_L_0				
63 D	43.50	1.5840E-02	66.00	217.5	217.5	248.0	PASSIVE	0.000	-10.400	0.000
1.000	1.000	217.5	0.000	0.000	0.000	BNA3(2)_335_337_L_0				
64 D	46.05	1.4737E-02	70.00	230.2	230.2	252.0	PASSIVE	0.000	-10.600	0.000
1.000	1.000	230.2	0.000	0.000	0.000	BNA3(2)_335_337_L_0				
65 D	45.46	1.3658E-02	74.00	227.3	227.3	256.0	V-C	5389.	-10.800	0.000
1.000	1.000	227.3	0.000	0.000	0.000	BNA3(2)_335_337_L_0				
66 D	44.72	1.2602E-02	78.00	223.6	223.6	260.0	V-C	5389.	-11.000	0.000
1.000	1.000	223.6	0.000	0.000	0.000	BNA3(2)_335_337_L_0				
67 D	44.01	1.1569E-02	82.00	220.0	220.0	264.0	V-C	5389.	-11.200	0.000
1.000	1.000	220.0	0.000	0.000	0.000	BNA3(2)_335_337_L_0				
68 D	43.32	1.0559E-02	86.00	216.6	216.6	268.0	V-C	5389.	-11.400	0.000
1.000	1.000	216.6	0.000	0.000	0.000	BNA3(2)_335_337_L_0				
69 D	42.67	9.5725E-03	90.00	213.4	213.4	272.0	V-C	5389.	-11.600	0.000
1.000	1.000	213.4	0.000	0.000	0.000	BNA3(2)_335_337_L_0				
70 D	42.05	8.6081E-03	94.00	210.2	210.2	276.0	V-C	5389.	-11.800	0.000
1.000	1.000	210.2	0.000	0.000	0.000	BNA3(2)_335_337_L_0				
71 D	41.45	7.6654E-03	98.00	207.2	207.2	280.0	V-C	5389.	-12.000	0.000
1.000	1.000	207.2	0.000	0.000	0.000	BNA3(2)_335_337_L_0				
72 D	40.87	6.7439E-03	102.0	204.4	204.4	284.0	V-C	5389.	-12.200	0.000
1.000	1.000	204.4	0.000	0.000	0.000	BNA3(2)_335_337_L_0				
73 D	40.32	5.8427E-03	106.0	201.6	201.6	288.0	V-C	5389.	-12.400	0.000
1.000	1.000	201.6	0.000	0.000	0.000	BNA3(2)_335_337_L_0				
74 D	39.80	4.9609E-03	110.0	199.0	199.0	292.0	V-C	5389.	-12.600	0.000
1.000	1.000	199.0	0.000	0.000	0.000	BNA3(2)_335_337_L_0				
75 D	39.30	4.0974E-03	114.0	196.5	196.5	296.0	V-C	5389.	-12.800	0.000
1.000	1.000	196.5	0.000	0.000	0.000	BNA3(2)_335_337_L_0				
76 D	38.81	3.2511E-03	118.0	194.1	194.1	300.0	V-C	5389.	-13.000	0.000
1.000	1.000	194.1	0.000	0.000	0.000	BNA3(2)_335_337_L_0				
77 D	44.06	2.4208E-03	122.0	220.3	220.3	304.0	V-C	8769.	-13.200	0.000
1.000	1.000	220.3	0.000	0.000	0.000	BNA3(3)_336_338_L_0				
78 D	43.09	1.6051E-03	126.0	215.5	215.5	308.0	V-C	8769.	-13.400	0.000
1.000	1.000	215.5	0.000	0.000	0.000	BNA3(3)_336_338_L_0				
79 D	42.16	8.0287E-04	130.0	210.8	210.8	312.0	V-C	8769.	-13.600	0.000
1.000	1.000	210.8	0.000	0.000	0.000	BNA3(3)_336_338_L_0				

80 D	40.96	1.2533E-05	134.0	204.8	316.0	208.5	UL-RL	1.4030E+04	-13.80	0.000
1.000	1.000	204.8	0.000	0.000	BNA3(3)_336_338_L_0					
81 D	39.21	-7.6730E-04	138.0	196.1	320.0	211.1	UL-RL	1.4030E+04	-14.00	0.000
1.000	1.000	196.1	0.000	0.000	BNA3(3)_336_338_L_0					
82 D	37.49	-1.5381E-03	142.0	187.5	324.0	213.8	UL-RL	1.4030E+04	-14.20	0.000
1.000	1.000	187.5	0.000	0.000	BNA3(3)_336_338_L_0					
83 D	35.79	-2.3012E-03	146.0	179.0	328.0	216.4	UL-RL	1.4030E+04	-14.40	0.000
1.000	1.000	179.0	0.000	0.000	BNA3(3)_336_338_L_0					
84 D	34.12	-3.0580E-03	150.0	170.6	332.0	219.0	UL-RL	1.4030E+04	-14.60	0.000
1.000	1.000	170.6	0.000	0.000	BNA3(3)_336_338_L_0					
85 D	32.45	-3.8097E-03	154.0	162.3	336.0	221.6	UL-RL	1.4030E+04	-14.80	0.000
1.000	1.000	162.3	0.000	0.000	BNA3(3)_336_338_L_0					
86 D	30.80	-4.5577E-03	158.0	154.0	340.0	224.2	UL-RL	1.4030E+04	-15.00	0.000
1.000	1.000	154.0	0.000	0.000	BNA3(3)_336_338_L_0					
87 D	29.16	-5.3029E-03	162.0	145.8	344.0	226.8	UL-RL	1.4030E+04	-15.20	0.000
1.000	1.000	145.8	0.000	0.000	BNA3(3)_336_338_L_0					
88 D	27.50	-6.0462E-03	166.0	137.5	348.0	229.6	UL-RL	1.4030E+04	-15.40	0.000
1.000	1.000	137.5	0.000	0.000	BNA3(3)_336_338_L_0					
89 D	25.84	-6.7885E-03	170.0	129.2	352.0	232.5	UL-RL	1.4030E+04	-15.60	0.000
1.000	1.000	129.2	0.000	0.000	BNA3(3)_336_338_L_0					
90 D	24.17	-7.5302E-03	174.0	120.9	356.0	235.4	UL-RL	1.4030E+04	-15.80	0.000
1.000	1.000	120.9	0.000	0.000	BNA3(3)_336_338_L_0					
91 D	11.26	-8.2718E-03	178.0	112.6	360.0	238.2	UL-RL	1.4030E+04	-16.00	0.000
1.000	1.000	112.6	0.000	0.000	BNA3(3)_336_338_L_0					

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|                PARATIE PLUS 2014 NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Sept23, 2015*                |
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|                NewProject.BaseDesignSection_25.Nominal_60                                                                              |
|                Exe Time :29 June 2020    21:03:22                                                                                          |
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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

WallElement_30 :
ELEMENT TYPE 2 NO.OF ELEMENTS. IN THIS GROUP 90
C U R R E N T T I M E I S 6.0000

WALL2D ELEMENT

EL	TA	TB	MA	MB
1	-1.12777E-08	1.12777E-08	-1.13112E-09	-6.61529E-10
2	0.48800	-0.48800	6.86725E-10	9.76000E-02
3	1.4640	-1.4640	-9.76000E-02	0.39040
4	2.9280	-2.9280	-0.39040	0.97600
5	4.8800	-4.8800	-0.97600	1.9520
6	7.3200	-7.3200	-1.9520	3.4160
7	10.248	-10.248	-3.4160	5.4656
8	13.664	-13.664	-5.4656	8.1984
9	17.568	-17.568	-8.1984	11.712
10	21.960	-21.960	-11.712	16.104
11	26.840	-26.840	-16.104	21.472
12	32.209	-32.209	-21.472	27.914
13	38.065	-38.065	-27.914	35.527
14	44.409	-44.409	-35.527	44.409
15	51.242	-51.242	-44.409	54.657
16	-73.655	73.655	-54.657	39.926
17	-65.846	65.846	-39.926	26.757
18	-57.550	57.550	-26.757	15.247
19	-48.765	48.765	-15.247	5.4940
20	-39.492	39.492	-5.4940	-2.4044
21	-33.459	33.459	2.4044	-9.0961
22	-27.098	27.098	9.0961	-14.516
23	-20.410	20.410	14.516	-18.598
24	-13.395	13.395	18.598	-21.277
25	-6.0524	6.0524	21.277	-22.487
26	1.6175	-1.6175	22.487	-22.164
27	9.6149	-9.6149	22.164	-20.241
28	17.940	-17.940	20.241	-16.653
29	26.592	-26.592	16.653	-11.334
30	35.571	-35.571	11.334	-4.2202
31	44.878	-44.878	4.2202	4.7554
32	54.513	-54.513	-4.7554	15.658
33	64.475	-64.475	-15.658	28.553
34	74.764	-74.764	-28.553	43.506
35	85.381	-85.381	-43.506	60.582
36	21.209	-21.209	-60.582	64.824
37	32.481	-32.481	-64.824	71.320
38	44.081	-44.081	-71.320	80.136
39	56.008	-56.008	-80.136	91.338
40	68.263	-68.263	-91.338	104.99
41	80.846	-80.846	-104.99	121.16
42	93.756	-93.756	-121.16	139.91
43	106.99	-106.99	-139.91	161.31
44	120.56	-120.56	-161.31	185.42
45	134.45	-134.45	-185.42	212.31
46	148.67	-148.67	-212.31	242.05
47	160.52	-160.52	-242.05	274.15
48	170.14	-170.14	-274.15	308.18
49	177.54	-177.54	-308.18	343.69
50	182.72	-182.72	-343.69	380.23
51	185.68	-185.68	-380.23	417.37
52	186.42	-186.42	-417.37	454.65
53	184.93	-184.93	-454.65	491.64
54	181.23	-181.23	-491.64	527.88
55	175.30	-175.30	-527.88	562.94
56	167.15	-167.15	-562.94	596.37
57	156.78	-156.78	-596.37	627.73
58	144.18	-144.18	-627.73	656.57
59	129.37	-129.37	-656.57	682.44
60	112.33	-112.33	-682.44	704.91
61	93.074	-93.074	-704.91	723.52
62	71.594	-71.594	-723.52	737.84
63	47.892	-47.892	-737.84	747.42
64	21.969	-21.969	-747.42	751.81
65	-3.0371	3.0371	-751.81	751.20
66	-26.975	26.975	-751.20	745.81
67	-49.874	49.874	-745.81	735.84
68	-71.762	71.762	-735.84	721.48
69	-92.669	92.669	-721.48	702.95
70	-112.62	112.62	-702.95	680.42

71	-131.65	131.65	-680.42	654.09
72	-149.77	149.77	-654.09	624.14
73	-167.02	167.02	-624.14	590.74
74	-183.02	183.02	-590.74	554.13
75	-196.33	196.33	-554.13	514.86
76	-206.99	206.99	-514.86	473.47
77	-218.73	218.73	-473.47	429.72
78	-226.73	226.73	-429.72	384.37
79	-231.03	231.03	-384.37	338.17
80	-231.42	231.42	-338.17	291.89
81	-227.59	227.59	-291.89	246.37
82	-219.61	219.61	-246.37	202.45
83	-207.50	207.50	-202.45	160.95
84	-191.53	191.53	-160.95	122.64
85	-171.97	171.97	-122.64	88.247
86	-148.82	148.82	-88.247	58.482
87	-122.11	122.11	-58.482	34.059
88	-91.826	91.826	-34.059	15.694
89	-57.958	57.958	-15.694	4.1026
90	-20.512	20.512	-4.1026	-9.20419E-11

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|          PARATIE PLUS 2014 NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Sept23, 2015*          |
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|          NewProject.BaseDesignSection_25.Nominal_60                                                                                       |
|          Exe Time :29 June 2020      21:03:22                                                                                             |
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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 . 4

Tieback_341 :
ELEMENT TYPE 6 NO.OF ELEMENTS. IN THIS GROUP 1
C U R R E N T T I M E I S 6.0000

POST-TENSION 2D-BOUNDARY ELEMENT

	EL	FORCE	d0	EDISPL	pl. eps	K	-ve limit	+ve limit	
ANCHOR	1	140.70	-6.73664E-04	6.91263E-02	0.0000	1219.8	0.0000	0.0000	ELASTIC ORIGINAL YOUNG MODU-
LUS									


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|          PARATIE PLUS 2014 NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Sept23, 2015*          |
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|                               NewProject.BaseDesignSection_25.Nominal_60                            |
|                               Exe Time :29 June 2020      21:03:22                                |
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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 . 5

Tieback_342 :
ELEMENT TYPE 6 NO.OF ELEMENTS. IN THIS GROUP 1
C U R R E N T T I M E I S 6.0000

POST-TENSION 2D-BOUNDARY ELEMENT

	EL	FORCE	d0	EDISPL	pl. eps	K	-ve limit	+ve limit	
ANCHOR	1	79.938	-4.54756E-04	1.53219E-02	0.0000	1545.2	0.0000	0.0000	ELASTIC ORIGINAL YOUNG MODU-
LUS									

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|          PARATIE PLUS 2014 NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Sept23, 2015*          |
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|                               NewProject.BaseDesignSection_25.Nominal_60                               |
|                               Exe Time :29 June 2020      21:03:22                               |
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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	5
3	CONVERGENCE :YES	3
4	CONVERGENCE :YES	6
5	CONVERGENCE :YES	2
6	CONVERGENCE :YES	5

END OF PROCESS FOR PROBLEM

New Project

NONLINEAR SOLUTION CPU TIME 0.06 [sec]

DATABASE CREATION CPU TIME..... 0.21 [sec]