

Collegamento tra l'A4 (Torino–Milano) in località Santhià, Biella, Gattinara e l'A26 (Genova Voltri–Gravellona) in località Ghemme. Lotto 1

**PROGETTO DEFINITIVO**

COD.

**PROGETTAZIONE: ANAS - DIREZIONE PROGETTAZIONE E REALIZZAZIONE LAVORI**

**I PROGETTISTI:**

ing. Vincenzo Marzi  
Ordine Ing. di Bari n.3594  
ing. Achille Devitofranceschi  
Ordine Ing. di Roma n.19116

**IL GEOLOGO:**

geol. Serena Majetta  
Ordine Geol. del Lazio n.928

**RESPONSABILE DEL SIA**

arch. Giovanni Magarò  
Ordine Arch. di Roma n.16183

**IL COORDINATORE PER LA SICUREZZA IN FASE DI PROGETTAZIONE**

geom. Fabio Quondam

**VISTO: IL RESPONSABILE DEL PROCEDIMENTO :**

ing. Nicolò Canepa

PROTOCOLLO

DATA

**GEOTECNICA**

**PONTE FIUME SESIA E RELATIVE OPERE PROVVISORIALI - VI06**

**RELAZIONE GEOTECNICA E DI CALCOLO - TABELLE DI CALCOLO**

CODICE PROGETTO

NOME FILE

REVISIONE

SCALA:

PROGETTO      LIV. PROG.      N. PROG.

DPT007\_D\_1701\_T00\_VI06\_GET\_RE02\_B.PDF

DPT007    D    1701

CODICE ELAB. T00VI06GETRE02

B

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REV.	DESCRIZIONE	DATA	REDATTO	VERIFICATO	APPROVATO
B	Emissione a seguito richieste iter approvativo	31/8/2019	Ing. A. Mangiola	Ing. E. Mittiga	Ing. A. Micheli
A	Emissione	18/5/2018	Ing. A. Mangiola	Ing. E. Mittiga	Ing. A. Micheli

## Indice

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# 1. VERIFICHE DI STABILITÀ GLOBALE ARGINE PROVVISORIO SPONDA DX

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/m<sup>3</sup>  
View: 2D

## Analysis Settings

### Slope Stability

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  
Slip Surface  
Direction of movement: Left to Right  
Use Passive Mode: No  
Slip Surface Option: Entry and Exit  
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  
Optimization Maximum Iterations: 2000  
Optimization Convergence Tolerance: 1e-007  
Starting Optimization Points: 8  
Ending Optimization Points: 16  
Complete Passes per Insertion: 1  
Driving Side Maximum Convex Angle: 5 °  
Resisting Side Maximum Convex Angle: 1 °

### Materials

Gradonatura  
Model: Mohr-Coulomb  
Unit Weight: 16 kN/m<sup>3</sup>  
Cohesion: 0 kPa  
Phi: 40 °  
Phi-B: 0 °  
Pore Water Pressure  
Piezometric Line: 1  
Argilla  
Model: Mohr-Coulomb  
Unit Weight: 18 kN/m<sup>3</sup>  
Cohesion: 5 kPa  
Phi: 28 °  
Phi-B: 0 °  
Sabbia  
Model: Mohr-Coulomb  
Unit Weight: 20 kN/m<sup>3</sup>  
Cohesion: 0 kPa  
Phi: 37 °  
Phi-B: 0 °  
Pore Water Pressure  
Piezometric Line: 1

## Slip Surface Entry and Exit

Left Projection: Range

Left-Zone Left Coordinate: (4.7, 4.7) m

Left-Zone Right Coordinate: (6, 5.5) m

Left-Zone Increment: 4

Right Projection: Range

Right-Zone Left Coordinate: (10.972, 2.09) m

Right-Zone Right Coordinate: (13.52, 0) m

Right-Zone Increment: 4

Radius Increments: 4

Slip Surface Limits

Left Coordinate: (-6.5, 0) m

Right Coordinate: (19, 0) m

Piezometric Lines

### Piezometric Line 1

#### Coordinates

	X (m)	Y (m)
	11.5	1.5
	19	1.5

Piezometric Line 2

#### Coordinates

	X (m)	Y (m)
	-6.5	0
	19	0

## Regions

	Material	Points	Area (m <sup>2</sup> )
Region 1	Sabbia	8,9,10,5,2,1,7	102
Region 2	Argilla	2,1,4,3	31.7625
Region 3	Gradonatura	3,6,5,2	9.7625

## Points

	X (m)	Y (m)
Point 1	0	0
Point 2	10.05	0
Point 3	7	5.5
Point 4	5.5	5.5
Point 5	13.1	0
Point 6	7.5	5.5
Point 7	-6.5	0
Point 8	-6.5	-4
Point 9	19	-4
Point 10	19	0

## Critical Slip Surfaces

	Slip Surface	FOS	Center (m)	Radius (m)	Entry (m)	Exit (m)
1	122	1.186	(19.42, 15.957)	17.013	(6, 5.5)	(12.8172, 0.277709)

### Slices of Slip Surface: 122

	Slip Surface	X (m)	Y (m)	PWP (kPa)	Base Normal Stress (kPa)	Frictional Strength (kPa)	Cohesive Strength (kPa)
1	122	6.125	5.343429	0	-1.4769276	-0.78529631	5
2	122	6.375	5.037535	0	2.3351011	1.2415953	5
3	122	6.625	4.7455645	0	5.9538827	3.1657356	5
4	122	6.875	4.466454	0	9.4115549	5.0042125	5
5	122	7.125	4.199287	0	12.447244	6.6183169	5
6	122	7.375	3.943265	0	15.086018	8.0213778	5
7	122	7.609866	3.711989	0	16.360223	8.6988849	5
8	122	7.829598	3.503783	0	16.268578	8.6501563	5

9	122	8.04933	3.302819	0	16.10556	8.5634779	5
10	122	8.2690615	3.1087565	0	15.870643	8.4385704	5
11	122	8.490394	2.919967	0	15.758764	13.223173	0
12	122	8.713328	2.7362595	0	15.673335	13.15149	0
13	122	8.936262	2.5587805	0	15.526204	13.028032	0
14	122	9.1591955	2.387285	0	15.313094	12.849212	0
15	122	9.382129	2.221549	0	15.029283	12.611066	0
16	122	9.605063	2.061366	0	14.670709	12.310186	0
17	122	9.827997	1.9065465	0	14.232869	11.942795	0
18	122	10.050932	1.756915	0	13.711227	11.505086	0
19	122	10.273865	1.6123085	0	13.103076	10.994786	0
20	122	10.496795	1.472577	0	12.405003	10.409034	0
21	122	10.71973	1.3375805	0	11.615514	9.7465731	0
22	122	10.942665	1.207189	0	10.73438	9.0072143	0
23	122	11.1656	1.081281	0	9.7618758	8.1911864	0
24	122	11.388535	0.95974355	0	8.7003974	7.3005003	0
25	122	11.536365	0.8810399	6.0700939	9.1896424	2.617612	0
26	122	11.69718	0.7986253	6.8783438	9.5521416	2.2435827	0
27	122	11.94608	0.67436685	8.0968884	10.445397	1.9706331	0
28	122	12.194985	0.555133	9.2661736	11.144142	1.5758029	0
29	122	12.44389	0.4408079	10.387352	11.636165	1.0478783	0
30	122	12.69279	0.3312838	11.461457	11.914616	0.38024564	0

## 2. VERIFICHE DI STABILITÀ GLOBALE ARGINE PROVVISORIO SPONDA SX

### 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/m<sup>3</sup>

View: 2D

### Analysis Settings

#### Slope Stability

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

Slip Surface

Direction of movement: Right to Left

Use Passive Mode: No

Slip Surface Option: Entry and Exit

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

Optimization Maximum Iterations: 2000

Optimization Convergence Tolerance: 1e-007

Starting Optimization Points: 8

Ending Optimization Points: 16

Complete Passes per Insertion: 1

Driving Side Maximum Convex Angle: 5 °

Resisting Side Maximum Convex Angle: 1 °

### Materials

Gradonatura

Model: Mohr-Coulomb

Unit Weight: 16 kN/m<sup>3</sup>

Cohesion: 0 kPa

Phi: 40 °

Phi-B: 0 °

Pore Water Pressure

Piezometric Line: 1

Argilla

Model: Mohr-Coulomb

Unit Weight: 18 kN/m<sup>3</sup>

Cohesion: 5 kPa

Phi: 28 °

Phi-B: 0 °

Sabbia

Model: Mohr-Coulomb

Unit Weight: 20 kN/m<sup>3</sup>

Cohesion: 0 kPa

Phi: 37 °

Phi-B: 0 °

Pore Water Pressure

Piezometric Line: 1  
 Slip Surface Entry and Exit  
 Left Projection: Range  
 Left-Zone Left Coordinate: (-2.31, 0) m  
 Left-Zone Right Coordinate: (1.29, 1.29) m  
 Left-Zone Increment: 4  
 Right Projection: Range  
 Right-Zone Left Coordinate: (6.11, 5.5) m  
 Right-Zone Right Coordinate: (8.182182, 4.83) m  
 Right-Zone Increment: 4  
 Radius Increments: 4  
 Slip Surface Limits  
 Left Coordinate: (-6.5, 0) m  
 Right Coordinate: (19, 0) m

### Piezometric Lines

#### Piezometric Line 1

##### Coordinates

	X (m)	Y (m)
	8.5	4.5
	19	4.5

#### Piezometric Line 2

##### Coordinates

	X (m)	Y (m)
	-6.5	0
	19	0

### Regions

	Material	Points	Area (m <sup>2</sup> )
Region 1	Sabbia	8,9,10,5,2,1,7	102
Region 2	Argilla	2,1,4,3	31.7625
Region 3	Gradonatura	3,6,5,2	9.7625

### Points

	X (m)	Y (m)
Point 1	0	0
Point 2	10.05	0
Point 3	7	5.5
Point 4	5.5	5.5
Point 5	13.1	0
Point 6	7.5	5.5
Point 7	-6.5	0
Point 8	-6.5	-4
Point 9	19	-4
Point 10	19	0

### Critical Slip Surfaces

	Slip Surface	FOS	Center (m)	Radius (m)	Entry (m)	Exit (m)
1	58	1.149	(-2.129, 9.508)	9.693	(6.69654, 5.5)	(0.0666856, 0.0666856)

### Slices of Slip Surface: 58

	Slip Surface	X (m)	Y (m)	PWP (kPa)	Base Normal Stress (kPa)	Frictional Strength (kPa)	Cohesive Strength (kPa)
1	58	0.17535189	0.09328729	0	0.67530726	0.35906724	5
2	58	0.39268445	0.14917305	0	3.8336031	2.0383629	5
3	58	0.610017	0.2104743	0	6.9016259	3.6696596	5
4	58	0.8273496	0.277299	0	9.8137766	5.2180776	5
5	58	1.044682	0.3497682	0	12.508733	6.6510114	5
6	58	1.2620145	0.4280171	0	14.933794	7.9404394	5
7	58	1.4793475	0.5121966	0	17.048878	9.0650493	5

8	58	1.69668	0.60247505	0	18.829262	10.011696	5
9	58	1.9140125	0.6990401	0	20.26688	10.776091	5
10	58	2.131345	0.8021011	0	21.367184	11.361133	5
11	58	2.3486775	0.91189195	0	22.150184	11.777462	5
12	58	2.5660105	1.0286744	0	22.643903	12.039977	5
13	58	2.783343	1.1527415	0	22.882215	12.16669	5
14	58	3.0006755	1.284424	0	22.902274	12.177355	5
15	58	3.218008	1.424094	0	22.740556	12.091368	5
16	58	3.4353405	1.5721735	0	22.431443	11.92701	5
17	58	3.652673	1.7291445	0	22.006298	11.700956	5
18	58	3.8700055	1.895557	0	21.491527	11.427248	5
19	58	4.0873385	2.072046	0	20.90934	11.117693	5
20	58	4.304671	2.2593495	0	20.27782	10.781908	5
21	58	4.5220035	2.4583315	0	19.608184	10.425857	5
22	58	4.739336	2.6700135	0	18.907223	10.053149	5
23	58	4.9566685	2.8956185	0	18.174649	9.6636325	5
24	58	5.174001	3.1366315	0	17.401981	9.2527972	5
25	58	5.3913335	3.394882	0	16.572044	8.8115122	5
26	58	5.6196545	3.6878805	0	14.465127	7.6912445	5
27	58	5.8589635	4.021405	0	11.022376	5.8607014	5
28	58	6.098272	4.3878955	0	7.269039	3.8650166	5
29	58	6.3375805	4.7951395	0	3.02104	1.6063154	5
30	58	6.5768895	5.2550535	0	-1.991125	-1.0587	5



### 3. VERIFICHE DI STABILITÀ GLOBALE FRONTE DI SBANCAMENTO CON PALANCOLE

#### 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/m<sup>3</sup>

View: 2D

Analysis Settings

#### Slope Stability

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

Slip Surface

Direction of movement: Right to Left

Use Passive Mode: No

Slip Surface Option: Entry and Exit

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

Optimization Maximum Iterations: 2000

Optimization Convergence Tolerance: 1e-007

Starting Optimization Points: 8

Ending Optimization Points: 16

Complete Passes per Insertion: 1

Driving Side Maximum Convex Angle: 5 °

Resisting Side Maximum Convex Angle: 1 °

#### Materials

Gradonatura

Model: Mohr-Coulomb

Unit Weight: 16 kN/m<sup>3</sup>

Cohesion: 0 kPa

Phi: 40 °

Phi-B: 0 °

Pore Water Pressure

Piezometric Line: 1

Argilla

Model: Mohr-Coulomb

Unit Weight: 18 kN/m<sup>3</sup>

Cohesion: 5 kPa

Phi: 28 °

Phi-B: 0 °

Pore Water Pressure

Piezometric Line: 1

#### Ug5

Model: Mohr-Coulomb

Unit Weight: 18 kN/m<sup>3</sup>

Cohesion: 0 kPa

Phi: 31.08 °

Phi-B: 0 °

Pore Water Pressure  
 Piezometric Line: 1  
 palancola  
 Model: Undrained (Phi=0)  
 Unit Weight: 75 kN/m<sup>3</sup>  
 Cohesion: 2.5e+005 kPa  
 Pore Water Pressure  
 Piezometric Line: 1

**Ug1**

Model: Mohr-Coulomb  
 Unit Weight: 18 kN/m<sup>3</sup>  
 Cohesion: 4 kPa  
 Phi: 21 °  
 Phi-B: 0 °  
 Pore Water Pressure  
 Piezometric Line: 1

**Ug3**

Model: Mohr-Coulomb  
 Unit Weight: 18 kN/m<sup>3</sup>  
 Cohesion: 0 kPa  
 Phi: 27 °  
 Phi-B: 0 °  
 Pore Water Pressure  
 Piezometric Line: 1  
 Slip Surface Entry and Exit  
 Left Projection: Range  
 Left-Zone Left Coordinate: (-20.32, -8.8) m  
 Left-Zone Right Coordinate: (-12.09, -8.8) m  
 Left-Zone Increment: 4  
 Right Projection: Range  
 Right-Zone Left Coordinate: (5.79, 5.5) m  
 Right-Zone Right Coordinate: (14.86, 0) m  
 Right-Zone Increment: 4  
 Radius Increments: 4  
 Slip Surface Limits  
 Left Coordinate: (-21, -8.8) m  
 Right Coordinate: (19, 0) m  
 Piezometric Lines  
 Piezometric Line 1

**Coordinates**

	X (m)	Y (m)
	8.5	4.5
	19	4.5

**Piezometric Line 2**

**Coordinates**

	X (m)	Y (m)
	-5	0
	19	0

**Piezometric Line 3**

**Coordinates**

	X (m)	Y (m)
	-21	-8.8
	-12	-8.8

**Regions**

	Material	Points	Area (m <sup>2</sup> )
Region 1	GC	21,20,19,18,15,23,12,14,8,13	81.8
Region 2	palancola	11,7,16,22,14,12,23,15	6
Region 3	GC	7,1,2,5,10,9,8,14,22,16	290.4
Region 4	Argilla	1,4,3,2	31.7625
Region 5	Gradonatura	3,6,5,2	9.7625

Region 6	Fm	24,25,9,8,13,21	236
Region 7	Alt	27,26,24,25	240

### Points

	X (m)	Y (m)
Point 1	0	0
Point 2	10.05	0
Point 3	7	5.5
Point 4	5.5	5.5
Point 5	13.1	0
Point 6	7.5	5.5
Point 7	-5	0
Point 8	-5	-12.1
Point 9	19	-12.1
Point 10	19	0
Point 11	-5.5	0
Point 12	-5.5	-12
Point 13	-5.5	-12.1
Point 14	-5	-12
Point 15	-5.5	-2
Point 16	-5	-2
Point 17	-5.5	-8.8
Point 18	-8	-2
Point 19	-12	-8.8
Point 20	-21	-8.8
Point 21	-21	-12.1
Point 22	-5	-8.8
Point 23	-5.5	-9.11
Point 24	-21	-18
Point 25	19	-18
Point 26	-21	-24
Point 27	19	-24

### Critical Slip Surfaces

	Slip Surface	FOS	Center (m)	Radius (m)	Entry (m)	Exit (m)
1	19	1.565	(-7.088, 6.564)	20.277	(12.3368, 0.749618)	(-20.32, -8.8)

### Slices of Slip Surface: 19

	Slip Surface	X (m)	Y (m)	PWP (kPa)	Base Normal Stress (kPa)	Frictional Strength (kPa)	Cohesive Strength (kPa)
1	19	-19.789195	-9.226929	0	12.11627	7.303234	0
2	19	-18.727585	-10.026254	0	36.198743	21.819247	0
3	19	-17.665975	-10.72343	0	59.217478	35.694079	0
4	19	-16.604365	-11.33048	0	80.50014	48.522472	0
5	19	-15.54276	-11.856375	0	99.29928	59.85389	0
6	19	-14.509965	-12.297525	0	102.5015	39.346641	4
7	19	-13.50598	-12.66261	0	112.15573	43.052552	4
8	19	-12.501995	-12.969295	0	118.90593	45.643709	4
9	19	-11.5	-13.21992	0	142.4316	54.674367	4
10	19	-10.5	-13.416795	0	181.65097	69.729273	4
11	19	-9.5	-13.562085	0	216.40186	83.068892	4
12	19	-8.5	-13.656905	0	246.51997	94.630151	4
13	19	-7.375	-13.700655	0	253.15868	97.178514	4
14	19	-6.125	-13.679765	0	237.93085	91.333097	4
15	19	-5.25	-13.62727	0	983.01464	377.34397	4
16	19	-4.5	-13.54014	0	252.4168	96.893733	4

17	19	-3.5	-13.38584	0	236.18025	90.661104	4
18	19	-2.5	-13.179715	0	219.83213	84.38565	4
19	19	-1.5	-12.920115	0	203.64966	78.17378	4
20	19	-0.5	-12.604865	0	187.81687	72.096142	4
21	19	0.4177401	-12.26651	0	180.20775	69.175272	4
22	19	1.4185451	-11.830355	0	178.63592	107.67505	0
23	19	2.584675	-11.24401	0	175.70551	105.90871	0
24	19	3.750805	-10.55821	0	172.33009	103.87413	0
25	19	4.916935	-9.760322	0	168.55796	101.60043	0
26	19	6.25	-8.6750975	0	154.1338	92.906084	0
27	19	7.25	-7.768567	0	137.81038	83.06694	0
28	19	8	-6.9606805	0	118.59087	71.48214	0
29	19	9.275	-5.3373615	96.473565	114.31711	10.755424	0
30	19	10.561605	-3.3621735	77.103802	86.958563	5.940081	0
31	19	11.58481	-1.226256	56.156436	60.303349	2.4996043	0
32	19	12.21658	0.37480905	40.455815	40.95251	0.41677602	0

#### 4. VERIFICHE PARATIA ARGINE VI06



### *Report di Calcolo*

Nome Progetto: New Project

Autore: Ingegnere

Jobname: Z:\01 COM\2017-010-ANAS-Pedemontana Piemontese\02-Bozze e varie\04\_Sottofondazioni\Paratie provvisionali\paratia argine pali.pplus

Data: 24/05/2018 18:26:20

Design Section: Base Design Section

## Descrizione del Software

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

# Descrizione della Stratigrafia e degli Strati di Terreno

Tipo : HORIZONTAL

Quota : 0 m

OCR : 1

Tipo : HORIZONTAL

Quota : -12 m

OCR : 1

Tipo : HORIZONTAL

Quota : -18 m

OCR : 1

## Descrizione Pareti

X : 0 m

Quota in alto : 0 m

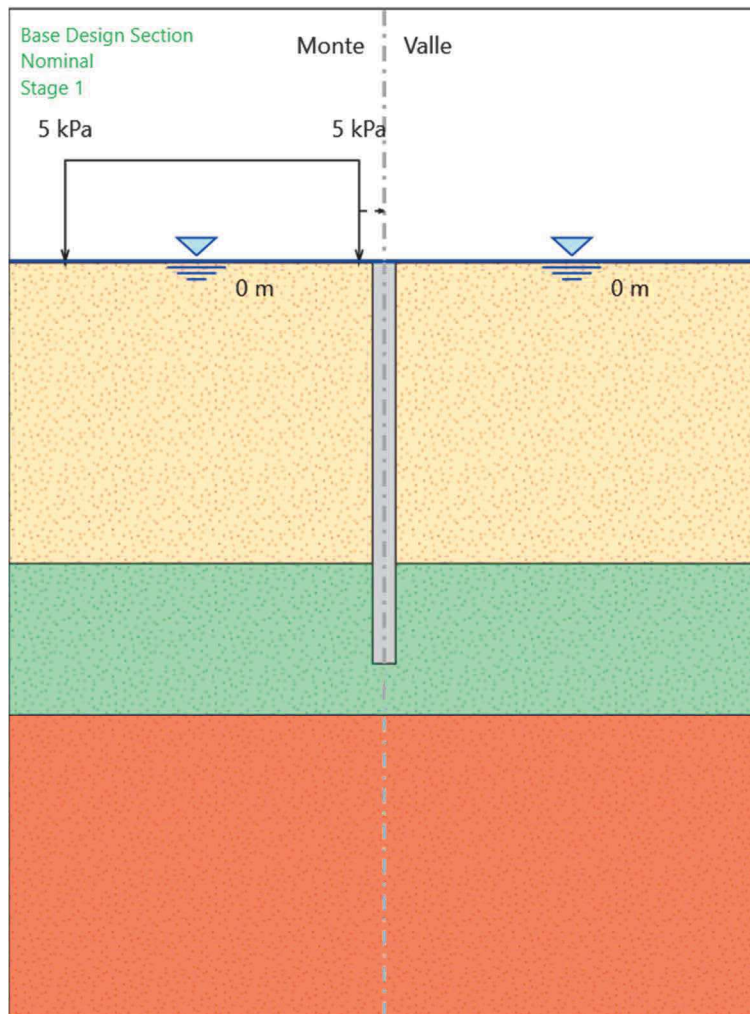
Quota di fondo : -16 m

Muro di sinistra



# Fasi di Calcolo

## Stage 1



## Stage 1

Elementi strutturali

Paratia : WallElement

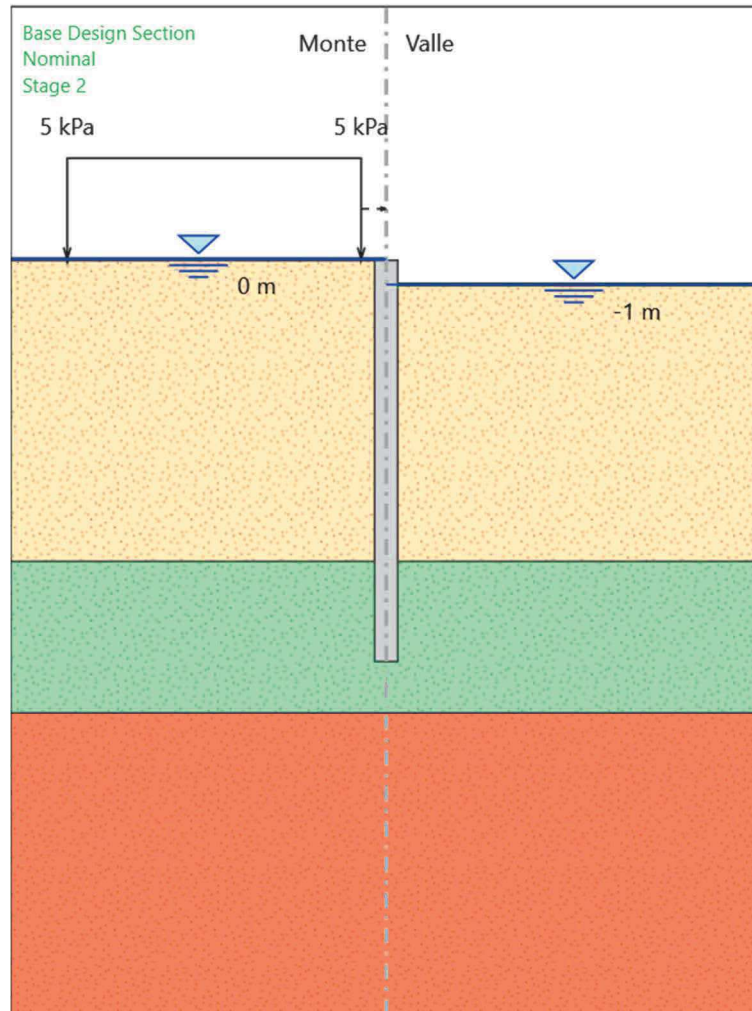
X : 0 m

Quota in alto : 0 m

Quota di fondo : -16 m

Sezione : Default Section

## Stage 2



## Stage 2

Elementi strutturali

Paratia : WallElement

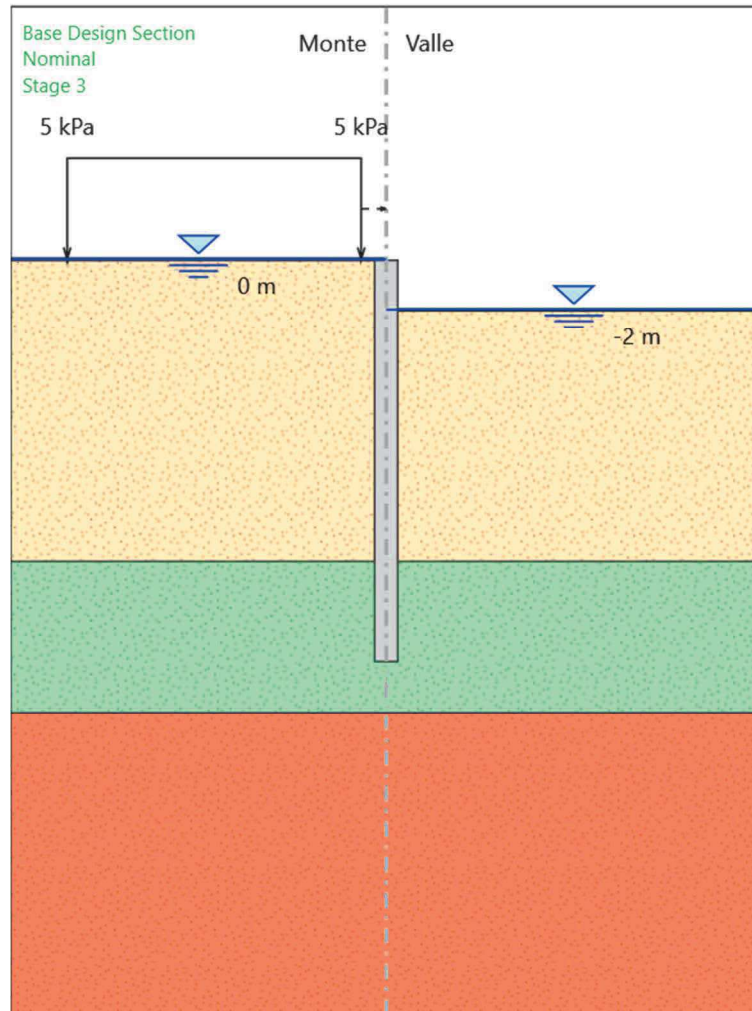
X : 0 m

Quota in alto : 0 m

Quota di fondo : -16 m

Sezione : Default Section

### Stage 3



### Stage 3

Elementi strutturali

Paratia : WallElement

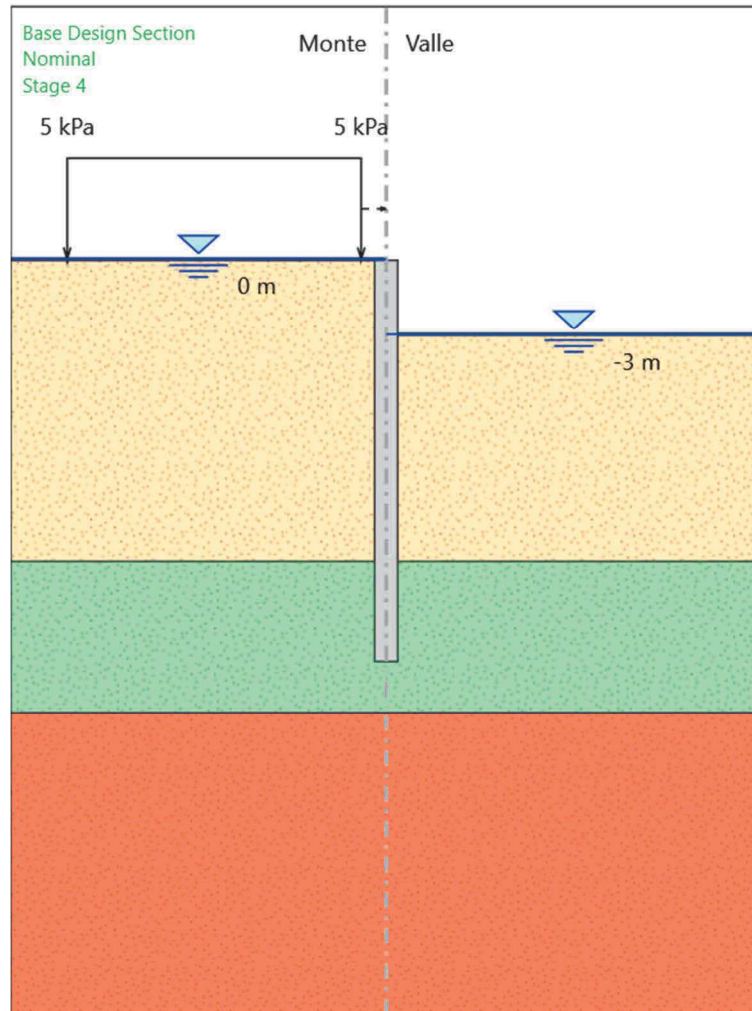
X : 0 m

Quota in alto : 0 m

Quota di fondo : -16 m

Sezione : Default Section

## Stage 4



## Stage 4

Elementi strutturali

Paratia : WallElement

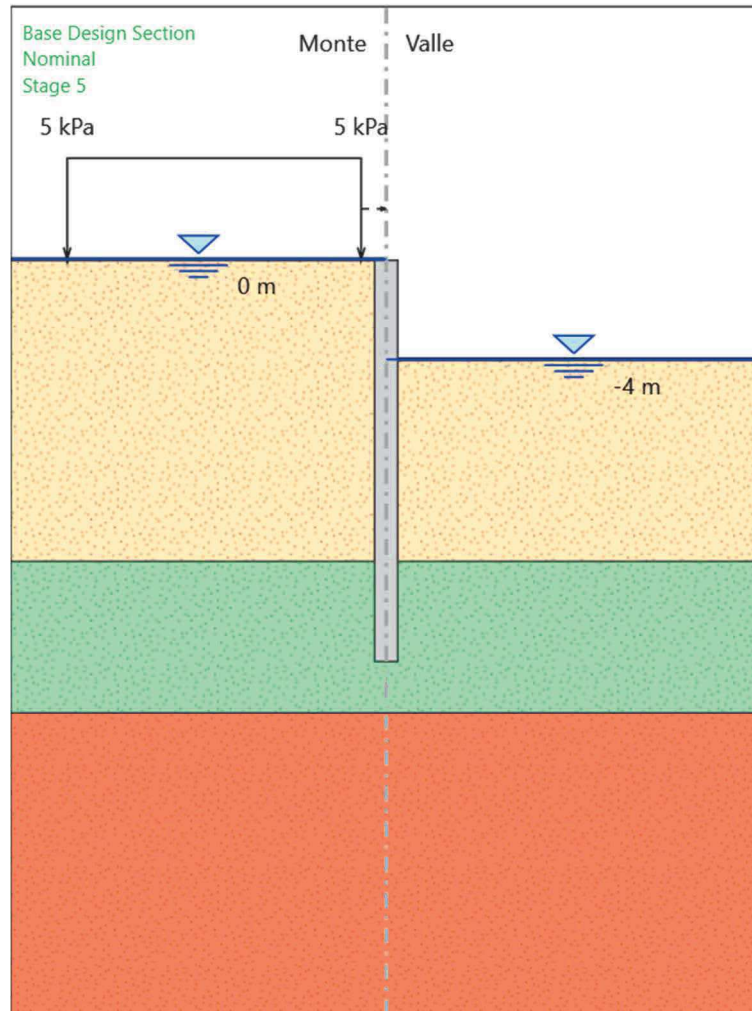
X : 0 m

Quota in alto : 0 m

Quota di fondo : -16 m

Sezione : Default Section

## Stage 5



## Stage 5

Elementi strutturali

Paratia : WallElement

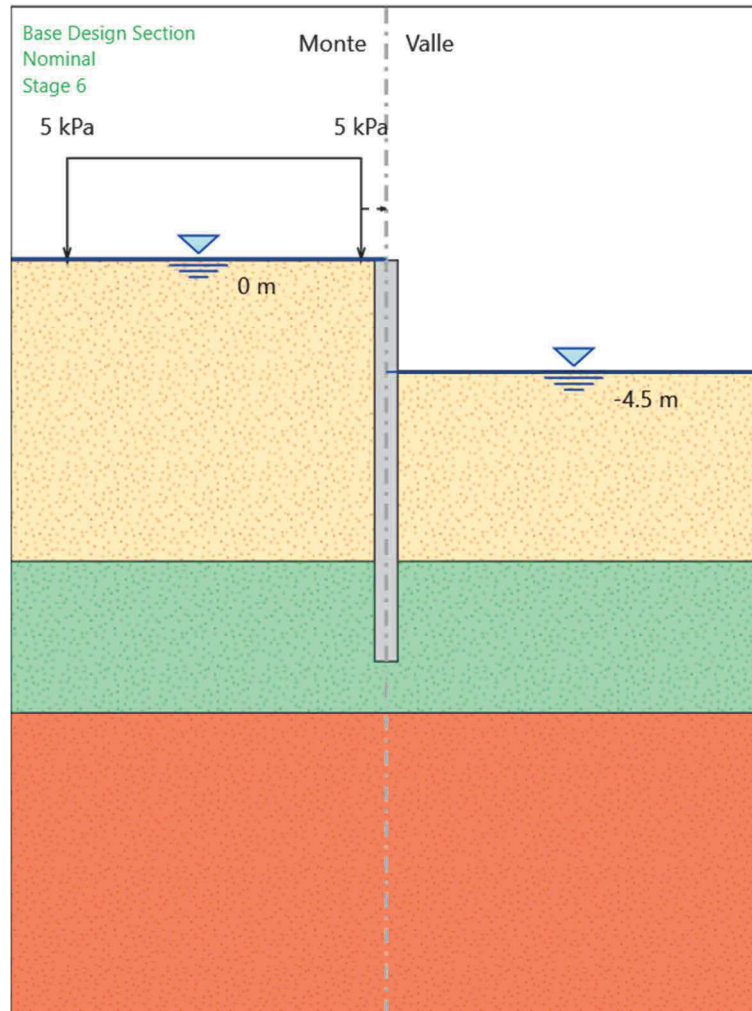
X : 0 m

Quota in alto : 0 m

Quota di fondo : -16 m

Sezione : Default Section

## Stage 6



## Stage 6

Elementi strutturali

Paratia : WallElement

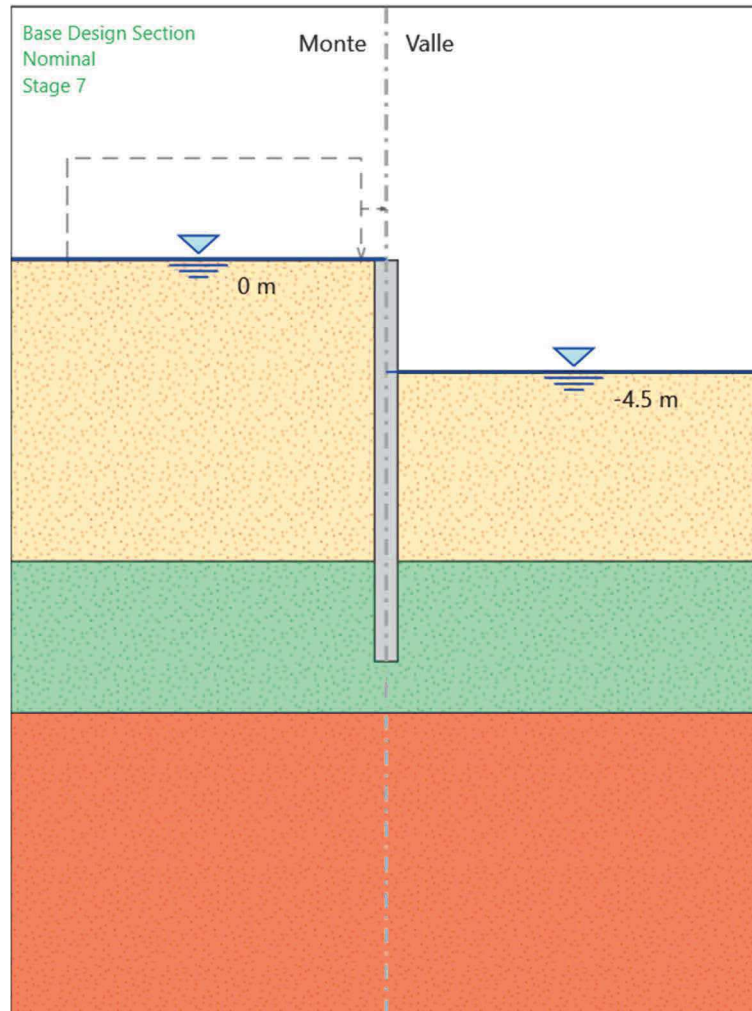
X : 0 m

Quota in alto : 0 m

Quota di fondo : -16 m

Sezione : Default Section

## Stage 7



## Stage 7

Elementi strutturali

Paratia : WallElement

X : 0 m

Quota in alto : 0 m

Quota di fondo : -16 m

Sezione : Default Section

# 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	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
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



Design Assumption: Nominal Tipo Risultato: Spostamento			Muro: LEFT
Stage	Z (m)	Spostamento (mm)	
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	0	0.34
Stage 2	-0.2	0.32
Stage 2	-0.4	0.31
Stage 2	-0.6	0.3
Stage 2	-0.8	0.28
Stage 2	-1	0.27
Stage 2	-1.2	0.26
Stage 2	-1.4	0.25
Stage 2	-1.6	0.23
Stage 2	-1.8	0.22
Stage 2	-2	0.21
Stage 2	-2.2	0.2
Stage 2	-2.4	0.18
Stage 2	-2.6	0.17
Stage 2	-2.8	0.16
Stage 2	-3	0.15
Stage 2	-3.2	0.14
Stage 2	-3.4	0.13
Stage 2	-3.6	0.12
Stage 2	-3.8	0.11
Stage 2	-4	0.11
Stage 2	-4.2	0.1
Stage 2	-4.4	0.09
Stage 2	-4.6	0.09
Stage 2	-4.8	0.08
Stage 2	-5	0.07
Stage 2	-5.2	0.07
Stage 2	-5.4	0.06
Stage 2	-5.6	0.06
Stage 2	-5.8	0.06
Stage 2	-6	0.05
Stage 2	-6.2	0.05
Stage 2	-6.4	0.05
Stage 2	-6.6	0.05
Stage 2	-6.8	0.04
Stage 2	-7	0.04
Stage 2	-7.2	0.04
Stage 2	-7.4	0.04
Stage 2	-7.6	0.04
Stage 2	-7.8	0.04
Stage 2	-8	0.04
Stage 2	-8.2	0.04
Stage 2	-8.4	0.04
Stage 2	-8.6	0.04
Stage 2	-8.8	0.04
Stage 2	-9	0.04
Stage 2	-9.2	0.04
Stage 2	-9.4	0.04
Stage 2	-9.6	0.04
Stage 2	-9.8	0.04
Stage 2	-10	0.04
Stage 2	-10.2	0.04
Stage 2	-10.4	0.04
Stage 2	-10.6	0.04
Stage 2	-10.8	0.04
Stage 2	-11	0.04
Stage 2	-11.2	0.04
Stage 2	-11.4	0.04
Stage 2	-11.6	0.05
Stage 2	-11.8	0.05
Stage 2	-12	0.05
Stage 2	-12.2	0.05
Stage 2	-12.4	0.05
Stage 2	-12.6	0.05
Stage 2	-12.8	0.05
Stage 2	-13	0.05

Design Assumption: Nominal Tipo Risultato: Spostamento		Muro: LEFT
Stage	Z (m)	Spostamento (mm)
Stage 2	-13.2	0.05
Stage 2	-13.4	0.05
Stage 2	-13.6	0.05
Stage 2	-13.8	0.05
Stage 2	-14	0.06
Stage 2	-14.2	0.06
Stage 2	-14.4	0.06
Stage 2	-14.6	0.06
Stage 2	-14.8	0.06
Stage 2	-15	0.06
Stage 2	-15.2	0.06
Stage 2	-15.4	0.06
Stage 2	-15.6	0.06
Stage 2	-15.8	0.06
Stage 2	-16	0.06

### Tabella Spostamento Nominal - LEFT Stage: Stage 3

Design Assumption: Nominal Tipo Risultato: Spostamento Muro: LEFT		
Stage	Z (m)	Spostamento (mm)
Stage 3	0	2.13
Stage 3	-0.2	2.06
Stage 3	-0.4	1.99
Stage 3	-0.6	1.92
Stage 3	-0.8	1.86
Stage 3	-1	1.79
Stage 3	-1.2	1.72
Stage 3	-1.4	1.65
Stage 3	-1.6	1.59
Stage 3	-1.8	1.52
Stage 3	-2	1.45
Stage 3	-2.2	1.39
Stage 3	-2.4	1.32
Stage 3	-2.6	1.26
Stage 3	-2.8	1.19
Stage 3	-3	1.13
Stage 3	-3.2	1.07
Stage 3	-3.4	1.01
Stage 3	-3.6	0.95
Stage 3	-3.8	0.89
Stage 3	-4	0.84
Stage 3	-4.2	0.78
Stage 3	-4.4	0.73
Stage 3	-4.6	0.68
Stage 3	-4.8	0.63
Stage 3	-5	0.59
Stage 3	-5.2	0.54
Stage 3	-5.4	0.5
Stage 3	-5.6	0.46
Stage 3	-5.8	0.43
Stage 3	-6	0.39
Stage 3	-6.2	0.36
Stage 3	-6.4	0.33
Stage 3	-6.6	0.3
Stage 3	-6.8	0.27
Stage 3	-7	0.24
Stage 3	-7.2	0.22
Stage 3	-7.4	0.2
Stage 3	-7.6	0.18
Stage 3	-7.8	0.17
Stage 3	-8	0.15
Stage 3	-8.2	0.14
Stage 3	-8.4	0.12
Stage 3	-8.6	0.11
Stage 3	-8.8	0.1
Stage 3	-9	0.1
Stage 3	-9.2	0.09
Stage 3	-9.4	0.09
Stage 3	-9.6	0.08
Stage 3	-9.8	0.08
Stage 3	-10	0.08
Stage 3	-10.2	0.07
Stage 3	-10.4	0.07
Stage 3	-10.6	0.07
Stage 3	-10.8	0.07
Stage 3	-11	0.07
Stage 3	-11.2	0.08
Stage 3	-11.4	0.08
Stage 3	-11.6	0.08
Stage 3	-11.8	0.08
Stage 3	-12	0.08
Stage 3	-12.2	0.09
Stage 3	-12.4	0.09
Stage 3	-12.6	0.09
Stage 3	-12.8	0.1
Stage 3	-13	0.1

Design Assumption: Nominal Tipo Risultato: Spostamento Muro: LEFT		
Stage	Z (m)	Spostamento (mm)
Stage 3	-13.2	0.1
Stage 3	-13.4	0.11
Stage 3	-13.6	0.11
Stage 3	-13.8	0.11
Stage 3	-14	0.12
Stage 3	-14.2	0.12
Stage 3	-14.4	0.12
Stage 3	-14.6	0.12
Stage 3	-14.8	0.13
Stage 3	-15	0.13
Stage 3	-15.2	0.13
Stage 3	-15.4	0.14
Stage 3	-15.6	0.14
Stage 3	-15.8	0.14
Stage 3	-16	0.14

## Tabella Spostamento Nominal - LEFT Stage: Stage 4

Design Assumption: Nominal Tipo Risultato: Spostamento			Muro: LEFT
Stage	Z (m)	Spostamento (mm)	
Stage 4	0	7.35	
Stage 4	-0.2	7.15	
Stage 4	-0.4	6.96	
Stage 4	-0.6	6.76	
Stage 4	-0.8	6.57	
Stage 4	-1	6.37	
Stage 4	-1.2	6.18	
Stage 4	-1.4	5.98	
Stage 4	-1.6	5.79	
Stage 4	-1.8	5.59	
Stage 4	-2	5.4	
Stage 4	-2.2	5.2	
Stage 4	-2.4	5.01	
Stage 4	-2.6	4.82	
Stage 4	-2.8	4.62	
Stage 4	-3	4.43	
Stage 4	-3.2	4.25	
Stage 4	-3.4	4.06	
Stage 4	-3.6	3.87	
Stage 4	-3.8	3.69	
Stage 4	-4	3.51	
Stage 4	-4.2	3.34	
Stage 4	-4.4	3.16	
Stage 4	-4.6	2.99	
Stage 4	-4.8	2.83	
Stage 4	-5	2.67	
Stage 4	-5.2	2.51	
Stage 4	-5.4	2.36	
Stage 4	-5.6	2.22	
Stage 4	-5.8	2.08	
Stage 4	-6	1.94	
Stage 4	-6.2	1.81	
Stage 4	-6.4	1.69	
Stage 4	-6.6	1.57	
Stage 4	-6.8	1.45	
Stage 4	-7	1.34	
Stage 4	-7.2	1.24	
Stage 4	-7.4	1.14	
Stage 4	-7.6	1.05	
Stage 4	-7.8	0.96	
Stage 4	-8	0.87	
Stage 4	-8.2	0.8	
Stage 4	-8.4	0.72	
Stage 4	-8.6	0.66	
Stage 4	-8.8	0.59	
Stage 4	-9	0.54	
Stage 4	-9.2	0.48	
Stage 4	-9.4	0.43	
Stage 4	-9.6	0.39	
Stage 4	-9.8	0.35	
Stage 4	-10	0.31	
Stage 4	-10.2	0.28	
Stage 4	-10.4	0.25	
Stage 4	-10.6	0.23	
Stage 4	-10.8	0.21	
Stage 4	-11	0.19	
Stage 4	-11.2	0.17	
Stage 4	-11.4	0.16	
Stage 4	-11.6	0.15	
Stage 4	-11.8	0.14	
Stage 4	-12	0.13	
Stage 4	-12.2	0.12	
Stage 4	-12.4	0.12	
Stage 4	-12.6	0.12	
Stage 4	-12.8	0.12	
Stage 4	-13	0.12	

Design Assumption: Nominal Tipo Risultato: Spostamento		Muro: LEFT
Stage	Z (m)	Spostamento (mm)
Stage 4	-13.2	0.12
Stage 4	-13.4	0.12
Stage 4	-13.6	0.12
Stage 4	-13.8	0.12
Stage 4	-14	0.12
Stage 4	-14.2	0.13
Stage 4	-14.4	0.13
Stage 4	-14.6	0.13
Stage 4	-14.8	0.14
Stage 4	-15	0.14
Stage 4	-15.2	0.15
Stage 4	-15.4	0.15
Stage 4	-15.6	0.15
Stage 4	-15.8	0.16
Stage 4	-16	0.16

## Tabella Spostamento Nominal - LEFT Stage: Stage 5

Design Assumption: Nominal Tipo Risultato: Spostamento			Muro: LEFT
Stage	Z (m)	Spostamento (mm)	
Stage 5	0	19.47	
Stage 5	-0.2	19.03	
Stage 5	-0.4	18.59	
Stage 5	-0.6	18.15	
Stage 5	-0.8	17.71	
Stage 5	-1	17.27	
Stage 5	-1.2	16.83	
Stage 5	-1.4	16.38	
Stage 5	-1.6	15.94	
Stage 5	-1.8	15.5	
Stage 5	-2	15.06	
Stage 5	-2.2	14.62	
Stage 5	-2.4	14.18	
Stage 5	-2.6	13.74	
Stage 5	-2.8	13.31	
Stage 5	-3	12.87	
Stage 5	-3.2	12.44	
Stage 5	-3.4	12	
Stage 5	-3.6	11.57	
Stage 5	-3.8	11.14	
Stage 5	-4	10.72	
Stage 5	-4.2	10.3	
Stage 5	-4.4	9.88	
Stage 5	-4.6	9.46	
Stage 5	-4.8	9.06	
Stage 5	-5	8.66	
Stage 5	-5.2	8.26	
Stage 5	-5.4	7.87	
Stage 5	-5.6	7.49	
Stage 5	-5.8	7.12	
Stage 5	-6	6.75	
Stage 5	-6.2	6.4	
Stage 5	-6.4	6.06	
Stage 5	-6.6	5.72	
Stage 5	-6.8	5.4	
Stage 5	-7	5.08	
Stage 5	-7.2	4.78	
Stage 5	-7.4	4.49	
Stage 5	-7.6	4.21	
Stage 5	-7.8	3.93	
Stage 5	-8	3.67	
Stage 5	-8.2	3.42	
Stage 5	-8.4	3.19	
Stage 5	-8.6	2.96	
Stage 5	-8.8	2.74	
Stage 5	-9	2.54	
Stage 5	-9.2	2.34	
Stage 5	-9.4	2.15	
Stage 5	-9.6	1.98	
Stage 5	-9.8	1.81	
Stage 5	-10	1.65	
Stage 5	-10.2	1.51	
Stage 5	-10.4	1.37	
Stage 5	-10.6	1.24	
Stage 5	-10.8	1.12	
Stage 5	-11	1	
Stage 5	-11.2	0.9	
Stage 5	-11.4	0.8	
Stage 5	-11.6	0.7	
Stage 5	-11.8	0.62	
Stage 5	-12	0.54	
Stage 5	-12.2	0.46	
Stage 5	-12.4	0.39	
Stage 5	-12.6	0.33	
Stage 5	-12.8	0.27	
Stage 5	-13	0.21	



Design Assumption: Nominal Tipo Risultato: Spostamento		Muro: LEFT
Stage	Z (m)	Spostamento (mm)
Stage 5	-13.2	0.16
Stage 5	-13.4	0.11
Stage 5	-13.6	0.06
Stage 5	-13.8	0.01
Stage 5	-14	-0.03
Stage 5	-14.2	-0.07
Stage 5	-14.4	-0.12
Stage 5	-14.6	-0.16
Stage 5	-14.8	-0.2
Stage 5	-15	-0.24
Stage 5	-15.2	-0.27
Stage 5	-15.4	-0.31
Stage 5	-15.6	-0.35
Stage 5	-15.8	-0.39
Stage 5	-16	-0.43

## Tabella Spostamento Nominal - LEFT Stage: Stage 6

Design Assumption: Nominal Tipo Risultato: Spostamento			Muro: LEFT
Stage	Z (m)	Spostamento (mm)	
Stage 6	0	30.08	
Stage 6	-0.2	29.44	
Stage 6	-0.4	28.81	
Stage 6	-0.6	28.18	
Stage 6	-0.8	27.54	
Stage 6	-1	26.91	
Stage 6	-1.2	26.28	
Stage 6	-1.4	25.65	
Stage 6	-1.6	25.01	
Stage 6	-1.8	24.38	
Stage 6	-2	23.75	
Stage 6	-2.2	23.12	
Stage 6	-2.4	22.49	
Stage 6	-2.6	21.86	
Stage 6	-2.8	21.23	
Stage 6	-3	20.6	
Stage 6	-3.2	19.97	
Stage 6	-3.4	19.35	
Stage 6	-3.6	18.72	
Stage 6	-3.8	18.1	
Stage 6	-4	17.49	
Stage 6	-4.2	16.87	
Stage 6	-4.4	16.26	
Stage 6	-4.6	15.66	
Stage 6	-4.8	15.06	
Stage 6	-5	14.46	
Stage 6	-5.2	13.88	
Stage 6	-5.4	13.3	
Stage 6	-5.6	12.72	
Stage 6	-5.8	12.16	
Stage 6	-6	11.61	
Stage 6	-6.2	11.07	
Stage 6	-6.4	10.54	
Stage 6	-6.6	10.02	
Stage 6	-6.8	9.51	
Stage 6	-7	9.02	
Stage 6	-7.2	8.54	
Stage 6	-7.4	8.07	
Stage 6	-7.6	7.62	
Stage 6	-7.8	7.18	
Stage 6	-8	6.76	
Stage 6	-8.2	6.35	
Stage 6	-8.4	5.96	
Stage 6	-8.6	5.58	
Stage 6	-8.8	5.22	
Stage 6	-9	4.87	
Stage 6	-9.2	4.53	
Stage 6	-9.4	4.21	
Stage 6	-9.6	3.91	
Stage 6	-9.8	3.61	
Stage 6	-10	3.33	
Stage 6	-10.2	3.07	
Stage 6	-10.4	2.81	
Stage 6	-10.6	2.57	
Stage 6	-10.8	2.34	
Stage 6	-11	2.12	
Stage 6	-11.2	1.92	
Stage 6	-11.4	1.72	
Stage 6	-11.6	1.53	
Stage 6	-11.8	1.36	
Stage 6	-12	1.19	
Stage 6	-12.2	1.03	
Stage 6	-12.4	0.88	
Stage 6	-12.6	0.73	
Stage 6	-12.8	0.59	
Stage 6	-13	0.46	

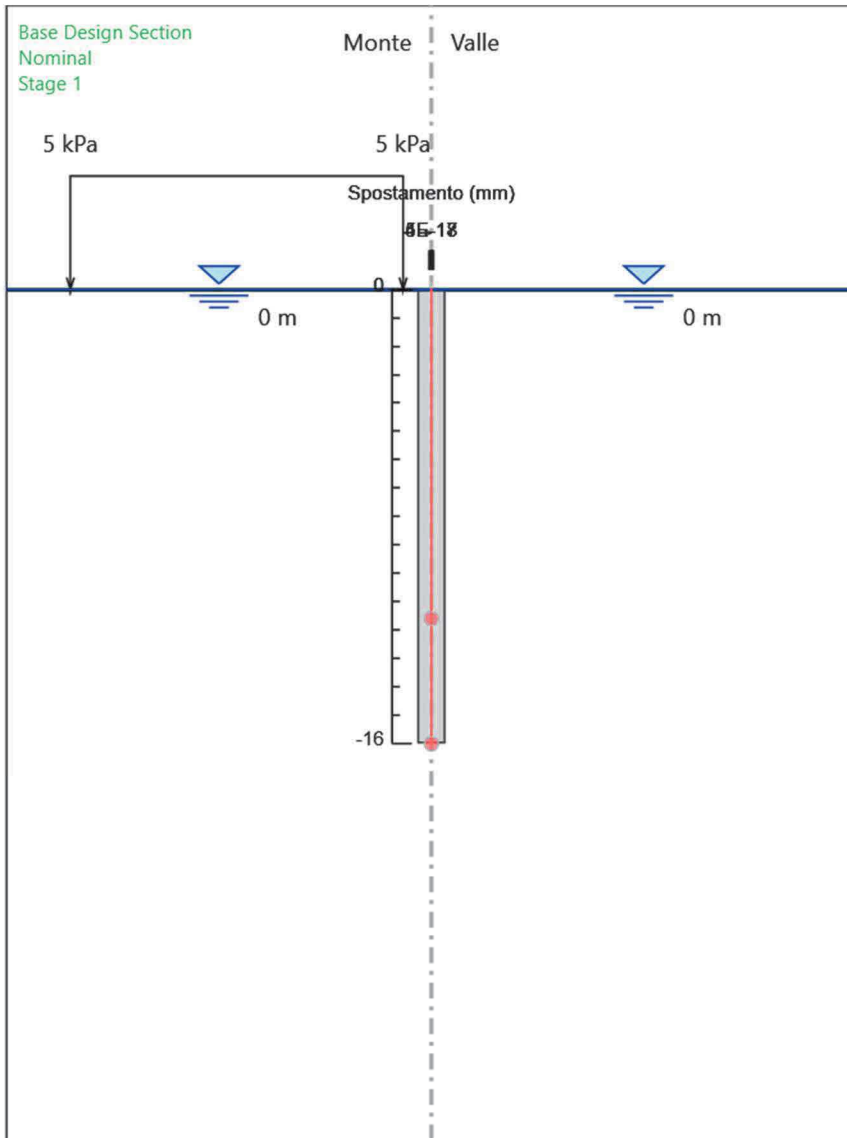
Design Assumption: Nominal Tipo Risultato: Spostamento		Muro: LEFT
Stage	Z (m)	Spostamento (mm)
Stage 6	-13.2	0.33
Stage 6	-13.4	0.21
Stage 6	-13.6	0.09
Stage 6	-13.8	-0.03
Stage 6	-14	-0.14
Stage 6	-14.2	-0.25
Stage 6	-14.4	-0.35
Stage 6	-14.6	-0.46
Stage 6	-14.8	-0.56
Stage 6	-15	-0.67
Stage 6	-15.2	-0.77
Stage 6	-15.4	-0.87
Stage 6	-15.6	-0.97
Stage 6	-15.8	-1.08
Stage 6	-16	-1.18

## Tabella Spostamento Nominal - LEFT Stage: Stage 7

Design Assumption: Nominal Tipo Risultato: Spostamento			Muro: LEFT
Stage	Z (m)	Spostamento (mm)	
Stage 7	0	30.07	
Stage 7	-0.2	29.44	
Stage 7	-0.4	28.81	
Stage 7	-0.6	28.17	
Stage 7	-0.8	27.54	
Stage 7	-1	26.91	
Stage 7	-1.2	26.27	
Stage 7	-1.4	25.64	
Stage 7	-1.6	25.01	
Stage 7	-1.8	24.37	
Stage 7	-2	23.74	
Stage 7	-2.2	23.11	
Stage 7	-2.4	22.48	
Stage 7	-2.6	21.85	
Stage 7	-2.8	21.22	
Stage 7	-3	20.59	
Stage 7	-3.2	19.96	
Stage 7	-3.4	19.34	
Stage 7	-3.6	18.72	
Stage 7	-3.8	18.09	
Stage 7	-4	17.48	
Stage 7	-4.2	16.86	
Stage 7	-4.4	16.25	
Stage 7	-4.6	15.65	
Stage 7	-4.8	15.05	
Stage 7	-5	14.45	
Stage 7	-5.2	13.87	
Stage 7	-5.4	13.29	
Stage 7	-5.6	12.71	
Stage 7	-5.8	12.15	
Stage 7	-6	11.6	
Stage 7	-6.2	11.06	
Stage 7	-6.4	10.53	
Stage 7	-6.6	10.01	
Stage 7	-6.8	9.5	
Stage 7	-7	9.01	
Stage 7	-7.2	8.53	
Stage 7	-7.4	8.06	
Stage 7	-7.6	7.61	
Stage 7	-7.8	7.17	
Stage 7	-8	6.75	
Stage 7	-8.2	6.34	
Stage 7	-8.4	5.95	
Stage 7	-8.6	5.57	
Stage 7	-8.8	5.21	
Stage 7	-9	4.86	
Stage 7	-9.2	4.52	
Stage 7	-9.4	4.2	
Stage 7	-9.6	3.9	
Stage 7	-9.8	3.6	
Stage 7	-10	3.32	
Stage 7	-10.2	3.06	
Stage 7	-10.4	2.8	
Stage 7	-10.6	2.56	
Stage 7	-10.8	2.33	
Stage 7	-11	2.11	
Stage 7	-11.2	1.91	
Stage 7	-11.4	1.71	
Stage 7	-11.6	1.52	
Stage 7	-11.8	1.34	
Stage 7	-12	1.18	
Stage 7	-12.2	1.02	
Stage 7	-12.4	0.86	
Stage 7	-12.6	0.72	
Stage 7	-12.8	0.58	
Stage 7	-13	0.45	

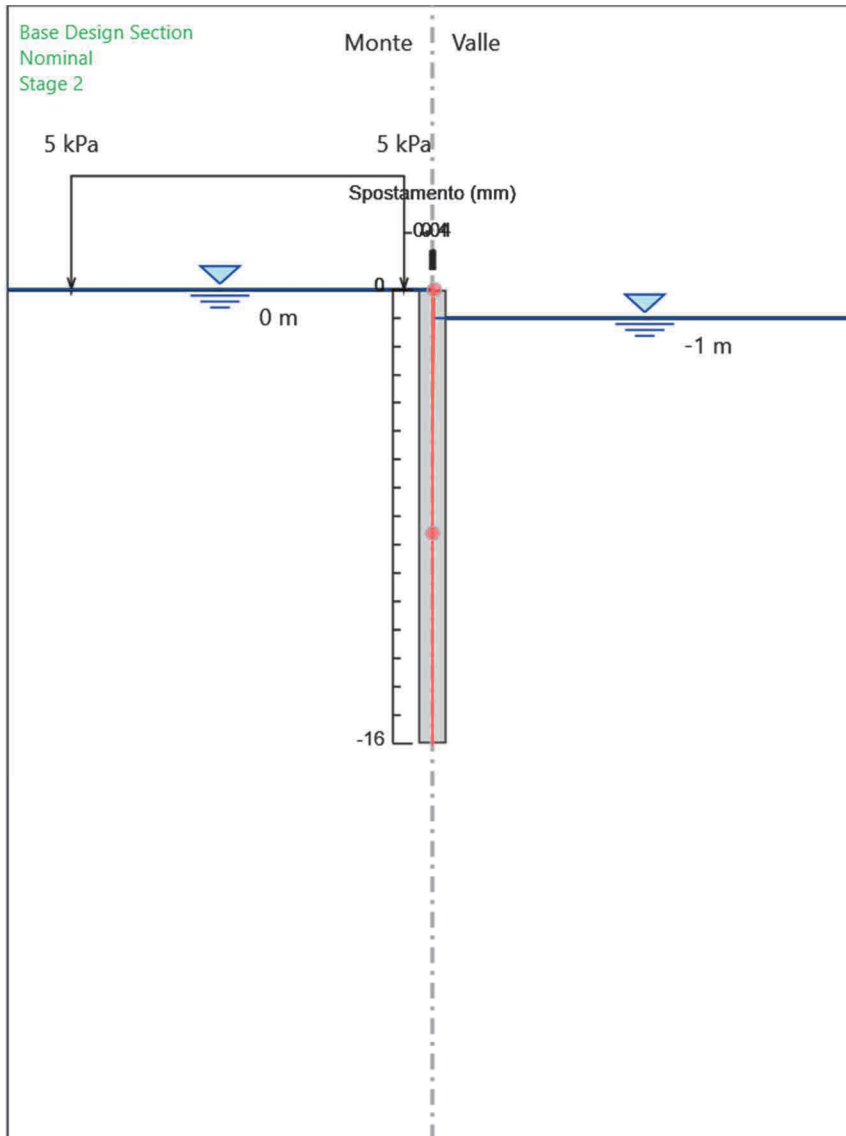
Design Assumption: Nominal Tipo Risultato: Spostamento		Muro: LEFT
Stage	Z (m)	Spostamento (mm)
Stage 7	-13.2	0.32
Stage 7	-13.4	0.19
Stage 7	-13.6	0.08
Stage 7	-13.8	-0.04
Stage 7	-14	-0.15
Stage 7	-14.2	-0.26
Stage 7	-14.4	-0.37
Stage 7	-14.6	-0.48
Stage 7	-14.8	-0.58
Stage 7	-15	-0.68
Stage 7	-15.2	-0.79
Stage 7	-15.4	-0.89
Stage 7	-15.6	-0.99
Stage 7	-15.8	-1.09
Stage 7	-16	-1.2

# Grafico Spostamento Nominal - Stage: Stage 1



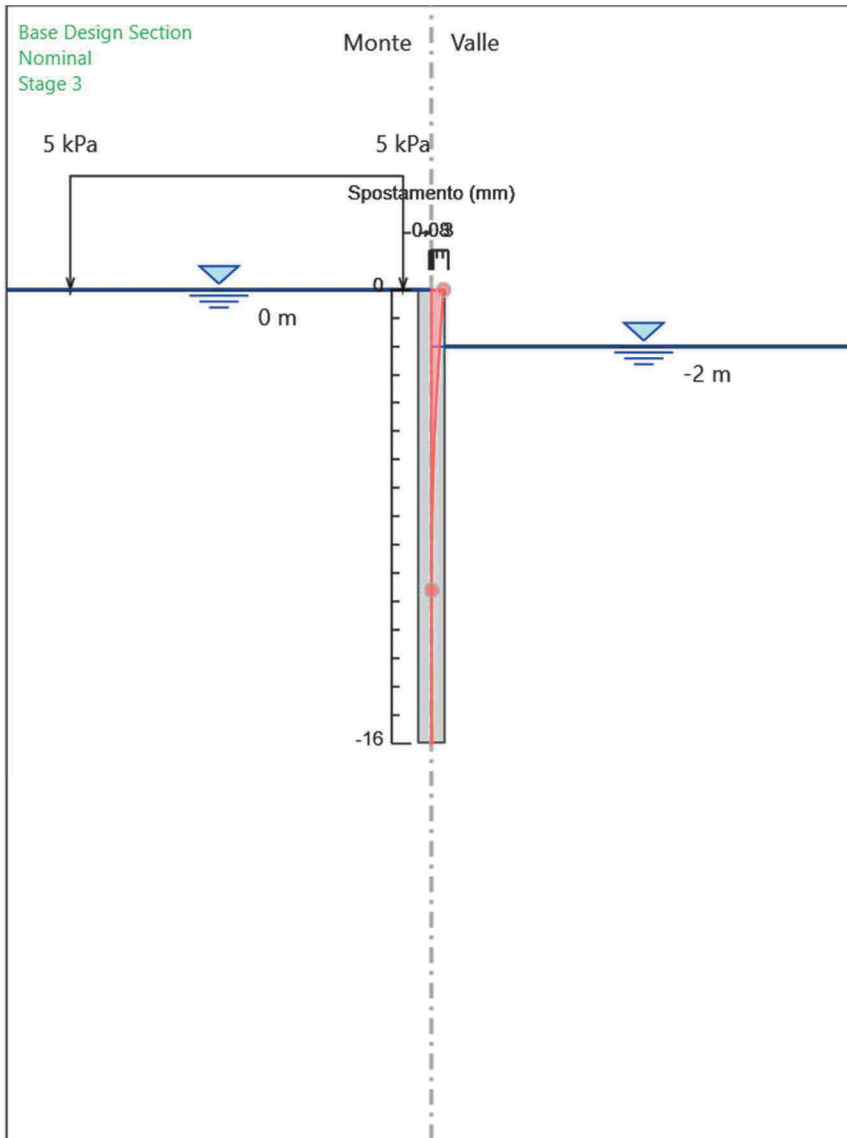
Design Assumption: Nominal  
Stage: Stage 1  
Spostamento

## Grafico Spostamento Nominal - Stage: Stage 2



Design Assumption: Nominal  
Stage: Stage 2  
Spostamento

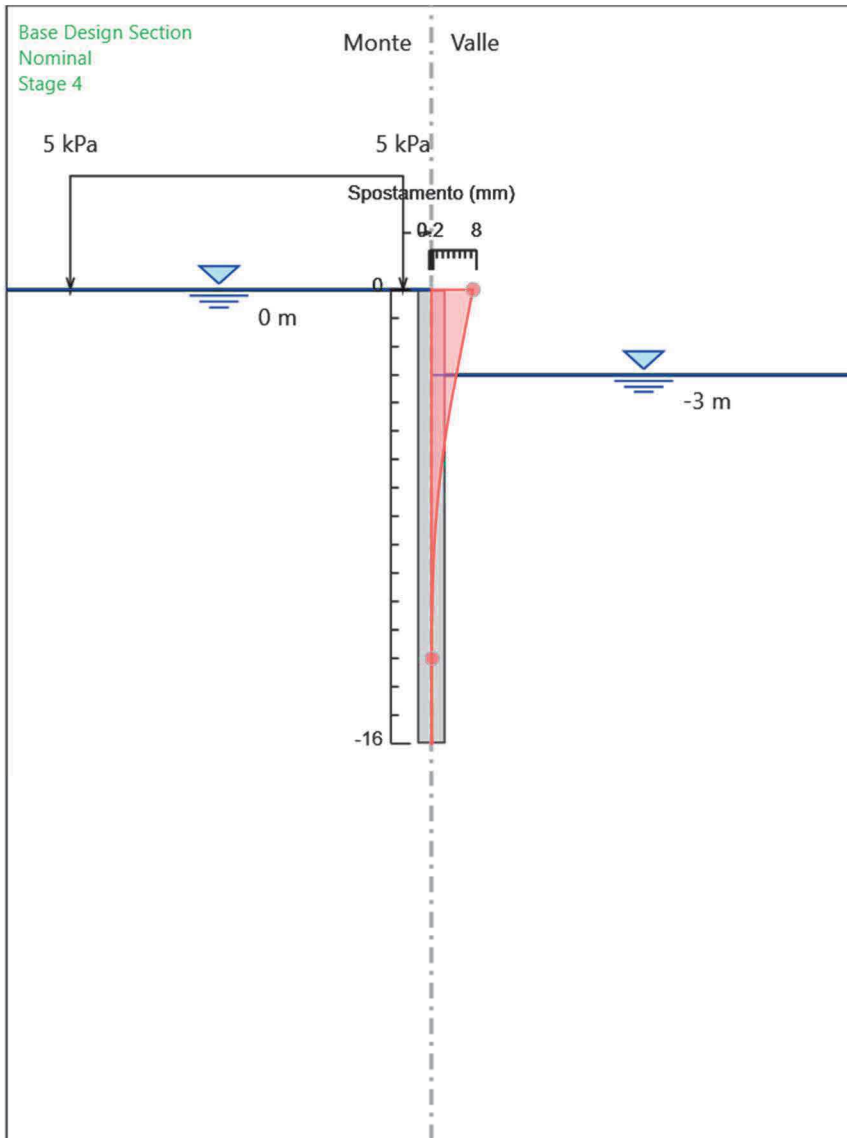
### Grafico Spostamento Nominal - Stage: Stage 3



Design Assumption: Nominal  
Stage: Stage 3  
Spostamento

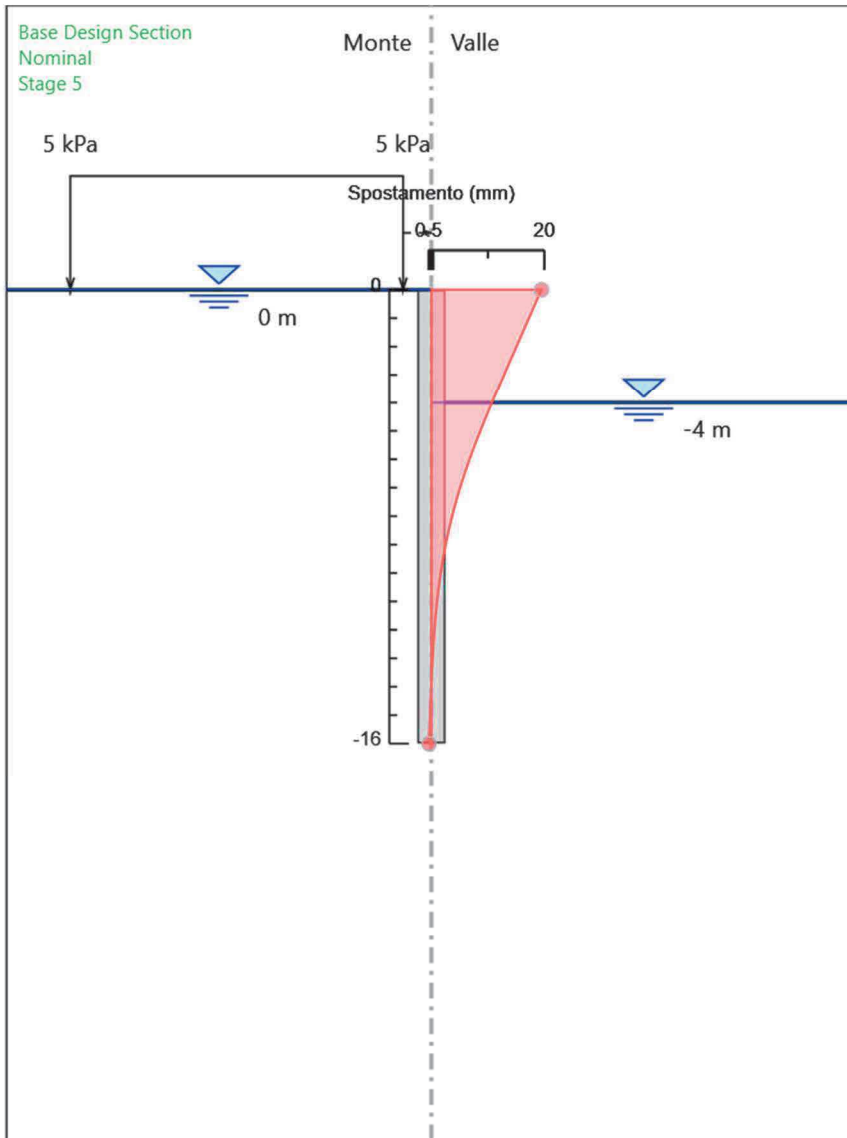


# Grafico Spostamento Nominal - Stage: Stage 4



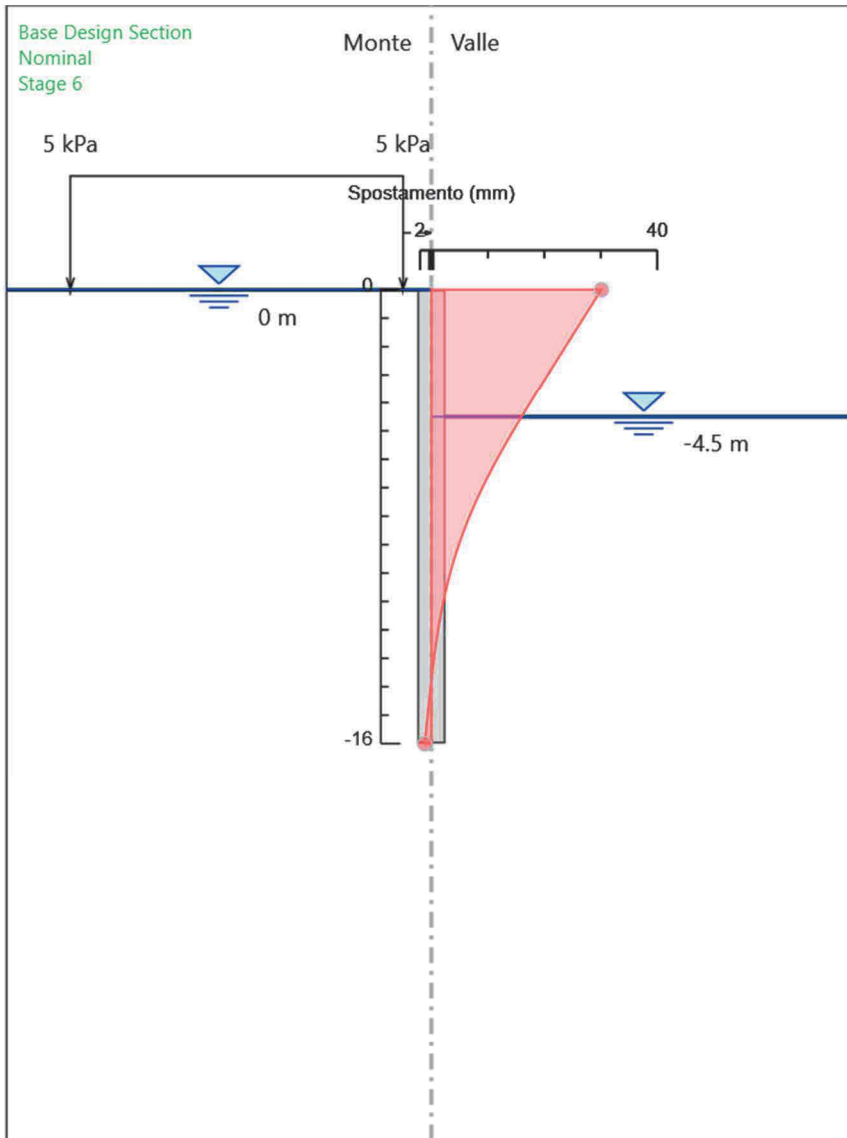
Design Assumption: Nominal  
Stage: Stage 4  
Spostamento

# Grafico Spostamento Nominal - Stage: Stage 5



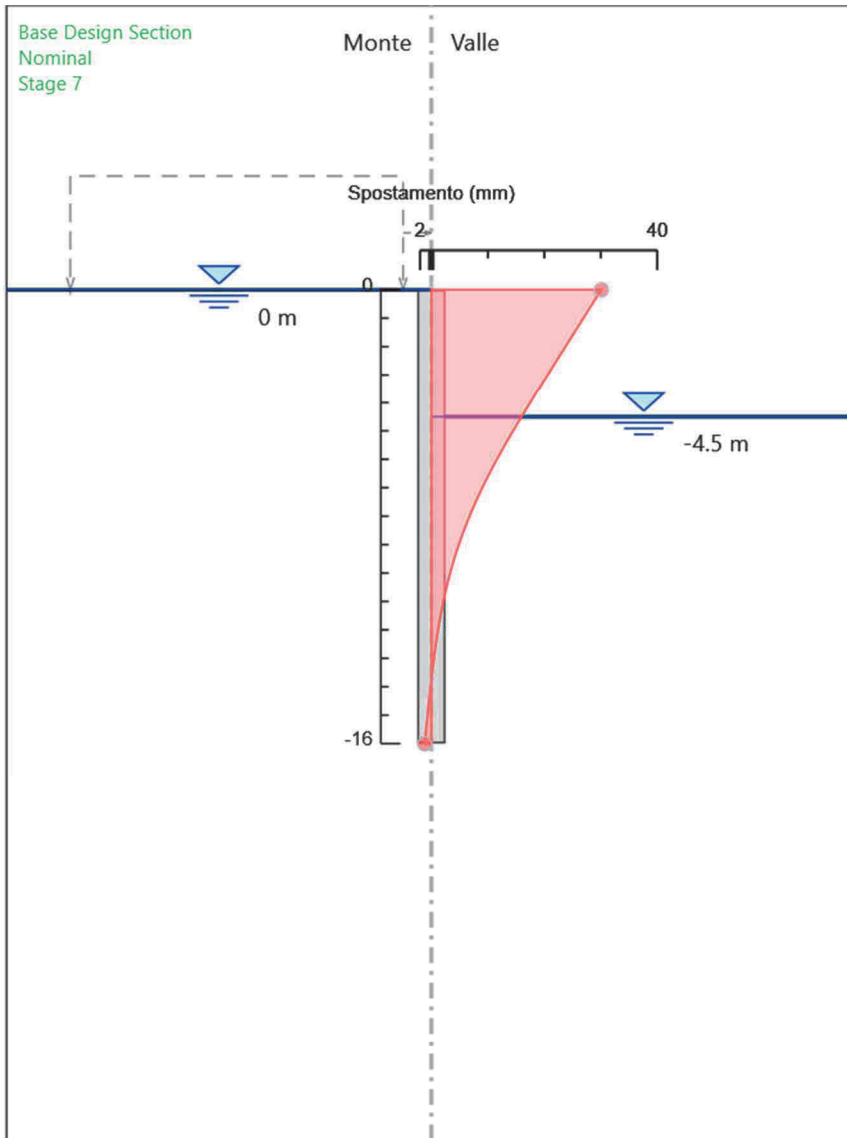
Design Assumption: Nominal  
Stage: Stage 5  
Spostamento

# Grafico Spostamento Nominal - Stage: Stage 6



Design Assumption: Nominal  
Stage: Stage 6  
Spostamento

# Grafico Spostamento Nominal - Stage: Stage 7



Design Assumption: Nominal  
Stage: Stage 7  
Spostamento

## **Inviluppi Spostamento Nominal**

# 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	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
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

Design Assumption: Nominal Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
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	0	0	0
Stage 2	-0.2	0	0
Stage 2	-0.2	0	0
Stage 2	-0.4	-0.1	-0.49
Stage 2	-0.6	-0.39	-1.47
Stage 2	-0.8	-0.98	-2.95
Stage 2	-1	-1.97	-4.92
Stage 2	-1.2	-3.45	-7.4
Stage 2	-1.4	-4.93	-7.41
Stage 2	-1.6	-6.4	-7.35
Stage 2	-1.8	-7.84	-7.22
Stage 2	-2	-9.25	-7.03
Stage 2	-2.2	-10.61	-6.79
Stage 2	-2.4	-11.91	-6.49
Stage 2	-2.6	-13.13	-6.13
Stage 2	-2.8	-14.27	-5.71
Stage 2	-3	-15.32	-5.23
Stage 2	-3.2	-16.26	-4.69
Stage 2	-3.4	-17.08	-4.09
Stage 2	-3.6	-17.76	-3.42
Stage 2	-3.8	-18.3	-2.68
Stage 2	-4	-18.67	-1.87
Stage 2	-4.2	-18.86	-0.98
Stage 2	-4.4	-18.87	-0.02
Stage 2	-4.6	-18.66	1.03
Stage 2	-4.8	-18.26	2.01
Stage 2	-5	-17.7	2.81
Stage 2	-5.2	-17.01	3.45
Stage 2	-5.4	-16.22	3.95
Stage 2	-5.6	-15.35	4.32
Stage 2	-5.8	-14.44	4.57
Stage 2	-6	-13.5	4.73
Stage 2	-6.2	-12.54	4.79
Stage 2	-6.4	-11.58	4.79
Stage 2	-6.6	-10.63	4.73
Stage 2	-6.8	-9.71	4.6
Stage 2	-7	-8.83	4.41
Stage 2	-7.2	-7.99	4.19
Stage 2	-7.4	-7.21	3.93
Stage 2	-7.6	-6.48	3.65
Stage 2	-7.8	-5.81	3.36
Stage 2	-8	-5.2	3.05
Stage 2	-8.2	-4.65	2.75
Stage 2	-8.4	-4.16	2.45
Stage 2	-8.6	-3.73	2.15
Stage 2	-8.8	-3.35	1.87
Stage 2	-9	-3.03	1.6
Stage 2	-9.2	-2.76	1.36
Stage 2	-9.4	-2.54	1.14
Stage 2	-9.6	-2.35	0.94
Stage 2	-9.8	-2.19	0.78
Stage 2	-10	-2.06	0.65
Stage 2	-10.2	-1.95	0.56
Stage 2	-10.4	-1.84	0.51
Stage 2	-10.6	-1.74	0.5
Stage 2	-10.8	-1.64	0.53
Stage 2	-11	-1.52	0.61
Stage 2	-11.2	-1.37	0.74
Stage 2	-11.4	-1.18	0.92
Stage 2	-11.6	-0.96	1.14
Stage 2	-11.8	-0.67	1.42
Stage 2	-12	-0.32	1.75
Stage 2	-12.2	0.11	2.14
Stage 2	-12.4	0.45	1.71
Stage 2	-12.6	0.71	1.32
Stage 2	-12.8	0.91	0.96



Design Assumption: Nominal Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 2	-13	1.04	0.65
Stage 2	-13.2	1.11	0.36
Stage 2	-13.4	1.13	0.12
Stage 2	-13.6	1.11	-0.09
Stage 2	-13.8	1.06	-0.27
Stage 2	-14	0.98	-0.41
Stage 2	-14.2	0.88	-0.52
Stage 2	-14.4	0.76	-0.59
Stage 2	-14.6	0.63	-0.64
Stage 2	-14.8	0.5	-0.65
Stage 2	-15	0.37	-0.63
Stage 2	-15.2	0.26	-0.59
Stage 2	-15.4	0.15	-0.51
Stage 2	-15.6	0.07	-0.4
Stage 2	-15.8	0.02	-0.27
Stage 2	-16	0	-0.1

### Tabella Risultati Paratia Nominal - Stage: Stage 3

Design Assumption: Nominal Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 3	0	0	0
Stage 3	-0.2	0	0
Stage 3	-0.2	0	0
Stage 3	-0.4	-0.1	-0.48
Stage 3	-0.6	-0.38	-1.44
Stage 3	-0.8	-0.96	-2.89
Stage 3	-1	-1.93	-4.82
Stage 3	-1.2	-3.37	-7.24
Stage 3	-1.4	-5.4	-10.15
Stage 3	-1.6	-8.11	-13.55
Stage 3	-1.8	-11.6	-17.45
Stage 3	-2	-15.97	-21.82
Stage 3	-2.2	-21.31	-26.69
Stage 3	-2.4	-27.13	-29.11
Stage 3	-2.6	-32.94	-29.07
Stage 3	-2.8	-38.29	-26.75
Stage 3	-3	-43.2	-24.54
Stage 3	-3.2	-47.69	-22.43
Stage 3	-3.4	-51.77	-20.42
Stage 3	-3.6	-55.47	-18.49
Stage 3	-3.8	-58.8	-16.66
Stage 3	-4	-61.78	-14.91
Stage 3	-4.2	-64.43	-13.23
Stage 3	-4.4	-66.76	-11.63
Stage 3	-4.6	-68.77	-10.08
Stage 3	-4.8	-70.49	-8.59
Stage 3	-5	-71.92	-7.15
Stage 3	-5.2	-73.07	-5.74
Stage 3	-5.4	-73.94	-4.37
Stage 3	-5.6	-74.55	-3.02
Stage 3	-5.8	-74.88	-1.68
Stage 3	-6	-74.95	-0.35
Stage 3	-6.2	-74.76	0.99
Stage 3	-6.4	-74.29	2.33
Stage 3	-6.6	-73.55	3.7
Stage 3	-6.8	-72.53	5.09
Stage 3	-7	-71.23	6.52
Stage 3	-7.2	-69.63	8
Stage 3	-7.4	-67.72	9.53
Stage 3	-7.6	-65.5	11.11
Stage 3	-7.8	-62.95	12.77
Stage 3	-8	-60.1	14.22
Stage 3	-8.2	-57.04	15.31
Stage 3	-8.4	-53.82	16.08
Stage 3	-8.6	-50.51	16.57
Stage 3	-8.8	-47.15	16.82

Design Assumption: Nominal Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 3	-9	-43.78	16.84
Stage 3	-9.2	-40.45	16.64
Stage 3	-9.4	-37.2	16.26
Stage 3	-9.6	-34.05	15.73
Stage 3	-9.8	-31.03	15.11
Stage 3	-10	-28.15	14.41
Stage 3	-10.2	-25.41	13.67
Stage 3	-10.4	-22.83	12.91
Stage 3	-10.6	-20.4	12.17
Stage 3	-10.8	-18.1	11.46
Stage 3	-11	-15.94	10.81
Stage 3	-11.2	-13.9	10.22
Stage 3	-11.4	-11.95	9.73
Stage 3	-11.6	-10.09	9.33
Stage 3	-11.8	-8.28	9.05
Stage 3	-12	-6.5	8.89
Stage 3	-12.2	-4.73	8.86
Stage 3	-12.4	-3.23	7.52
Stage 3	-12.6	-1.97	6.27
Stage 3	-12.8	-0.95	5.13
Stage 3	-13	-0.13	4.08
Stage 3	-13.2	0.5	3.13
Stage 3	-13.4	0.95	2.27
Stage 3	-13.6	1.25	1.52
Stage 3	-13.8	1.43	0.86
Stage 3	-14	1.49	0.3
Stage 3	-14.2	1.45	-0.17
Stage 3	-14.4	1.34	-0.54
Stage 3	-14.6	1.18	-0.82
Stage 3	-14.8	0.98	-1.01
Stage 3	-15	0.76	-1.1
Stage 3	-15.2	0.53	-1.11
Stage 3	-15.4	0.33	-1.02
Stage 3	-15.6	0.16	-0.85
Stage 3	-15.8	0.04	-0.58
Stage 3	-16	0	-0.22

## 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	0	0	0
Stage 4	-0.2	0	0
Stage 4	-0.2	0	0
Stage 4	-0.4	-0.09	-0.47
Stage 4	-0.4	-0.09	-0.47
Stage 4	-0.6	-0.38	-1.41
Stage 4	-0.8	-0.94	-2.82
Stage 4	-1	-1.88	-4.71
Stage 4	-1.2	-3.3	-7.08
Stage 4	-1.4	-5.28	-9.92
Stage 4	-1.6	-7.93	-13.24
Stage 4	-1.8	-11.34	-17.05
Stage 4	-2	-15.6	-21.33
Stage 4	-2.2	-20.82	-26.09
Stage 4	-2.4	-27.09	-31.32
Stage 4	-2.6	-34.49	-37.03
Stage 4	-2.8	-43.14	-43.21
Stage 4	-3	-53.11	-49.87
Stage 4	-3.2	-64.51	-57
Stage 4	-3.4	-76.86	-61.75
Stage 4	-3.6	-89.68	-64.11
Stage 4	-3.8	-102.5	-64.08
Stage 4	-4	-114.83	-61.67
Stage 4	-4.2	-126.2	-56.87
Stage 4	-4.4	-136.4	-50.98
Stage 4	-4.6	-145.49	-45.42
Stage 4	-4.8	-153.52	-40.19
Stage 4	-5	-160.58	-35.26
Stage 4	-5.2	-166.7	-30.63
Stage 4	-5.4	-171.96	-26.27
Stage 4	-5.6	-176.39	-22.18
Stage 4	-5.8	-180.06	-18.35
Stage 4	-6	-183.01	-14.74
Stage 4	-6.2	-185.28	-11.36
Stage 4	-6.4	-186.92	-8.19
Stage 4	-6.6	-187.96	-5.2
Stage 4	-6.8	-188.43	-2.38
Stage 4	-7	-188.38	0.28
Stage 4	-7.2	-187.82	2.8
Stage 4	-7.4	-186.78	5.2
Stage 4	-7.6	-185.28	7.49
Stage 4	-7.8	-183.34	9.69
Stage 4	-8	-180.98	11.81
Stage 4	-8.2	-178.21	13.87
Stage 4	-8.4	-175.03	15.89
Stage 4	-8.6	-171.46	17.87
Stage 4	-8.8	-167.49	19.84
Stage 4	-9	-163.13	21.81
Stage 4	-9.2	-158.37	23.79
Stage 4	-9.4	-153.21	25.79
Stage 4	-9.6	-147.64	27.83
Stage 4	-9.8	-141.66	29.92
Stage 4	-10	-135.24	32.08
Stage 4	-10.2	-128.39	34.29
Stage 4	-10.4	-121.19	35.99
Stage 4	-10.6	-113.74	37.24
Stage 4	-10.8	-106.12	38.1
Stage 4	-11	-98.42	38.53
Stage 4	-11.2	-90.7	38.6
Stage 4	-11.4	-83.02	38.39
Stage 4	-11.6	-75.43	37.95
Stage 4	-11.8	-67.96	37.34
Stage 4	-12	-60.64	36.62
Stage 4	-12.2	-53.47	35.82
Stage 4	-12.4	-46.83	33.2
Stage 4	-12.6	-40.71	30.6

Design Assumption: Nominal Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 4	-12.8	-35.1	28.05
Stage 4	-13	-29.99	25.56
Stage 4	-13.2	-25.36	23.14
Stage 4	-13.4	-21.2	20.8
Stage 4	-13.6	-17.49	18.55
Stage 4	-13.8	-14.21	16.4
Stage 4	-14	-11.34	14.36
Stage 4	-14.2	-8.86	12.43
Stage 4	-14.4	-6.73	10.61
Stage 4	-14.6	-4.95	8.9
Stage 4	-14.8	-3.49	7.32
Stage 4	-15	-2.32	5.86
Stage 4	-15.2	-1.41	4.51
Stage 4	-15.4	-0.76	3.29
Stage 4	-15.6	-0.32	2.2
Stage 4	-15.8	-0.07	1.22
Stage 4	-16	0	0.37

## Tabella Risultati Paratia Nominal - Stage: Stage 5

Design Assumption: Nominal Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 5	0	0	0
Stage 5	-0.2	0	0
Stage 5	-0.2	0	0
Stage 5	-0.4	-0.09	-0.46
Stage 5	-0.6	-0.37	-1.37
Stage 5	-0.8	-0.92	-2.75
Stage 5	-1	-1.83	-4.59
Stage 5	-1.2	-3.21	-6.9
Stage 5	-1.4	-5.15	-9.67
Stage 5	-1.6	-7.73	-12.91
Stage 5	-1.8	-11.05	-16.62
Stage 5	-2	-15.21	-20.79
Stage 5	-2.2	-20.3	-25.44
Stage 5	-2.4	-26.41	-30.54
Stage 5	-2.6	-33.63	-36.11
Stage 5	-2.8	-42.06	-42.14
Stage 5	-3	-51.78	-48.63
Stage 5	-3.2	-62.9	-55.58
Stage 5	-3.4	-75.5	-63
Stage 5	-3.6	-89.67	-70.87
Stage 5	-3.8	-105.51	-79.2
Stage 5	-4	-123.11	-87.99
Stage 5	-4.2	-142.56	-97.25
Stage 5	-4.4	-163.4	-104.19
Stage 5	-4.6	-185.17	-108.82
Stage 5	-4.8	-207.4	-111.15
Stage 5	-5	-229.63	-111.17
Stage 5	-5.2	-251.4	-108.88
Stage 5	-5.4	-272.26	-104.27
Stage 5	-5.6	-291.73	-97.36
Stage 5	-5.8	-309.36	-88.15
Stage 5	-6	-324.78	-77.11
Stage 5	-6.2	-338.12	-66.7
Stage 5	-6.4	-349.5	-56.87
Stage 5	-6.6	-359.02	-47.61
Stage 5	-6.8	-366.8	-38.89
Stage 5	-7	-372.94	-30.7
Stage 5	-7.2	-377.54	-22.99
Stage 5	-7.4	-380.69	-15.76
Stage 5	-7.6	-382.48	-8.96
Stage 5	-7.8	-383	-2.58
Stage 5	-8	-382.31	3.41
Stage 5	-8.2	-380.51	9.04
Stage 5	-8.4	-377.64	14.32
Stage 5	-8.6	-373.78	19.3
Stage 5	-8.8	-368.99	23.99
Stage 5	-9	-363.3	28.41
Stage 5	-9.2	-356.78	32.6
Stage 5	-9.4	-349.47	36.57
Stage 5	-9.6	-341.4	40.35
Stage 5	-9.8	-332.61	43.96
Stage 5	-10	-323.12	47.43
Stage 5	-10.2	-312.97	50.77
Stage 5	-10.4	-302.17	54.01
Stage 5	-10.6	-290.74	57.16
Stage 5	-10.8	-278.69	60.25
Stage 5	-11	-266.03	63.29
Stage 5	-11.2	-252.77	66.29
Stage 5	-11.4	-238.91	69.29
Stage 5	-11.6	-224.45	72.29
Stage 5	-11.8	-209.39	75.31
Stage 5	-12	-193.72	78.36
Stage 5	-12.2	-177.43	81.45
Stage 5	-12.4	-161.38	80.24
Stage 5	-12.6	-145.7	78.44
Stage 5	-12.8	-130.47	76.11

Design Assumption: Nominal Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 5	-13	-115.82	73.29
Stage 5	-13.2	-101.81	70.02
Stage 5	-13.4	-88.55	66.32
Stage 5	-13.6	-76.08	62.36
Stage 5	-13.8	-64.44	58.17
Stage 5	-14	-53.68	53.82
Stage 5	-14.2	-43.82	49.31
Stage 5	-14.4	-34.89	44.65
Stage 5	-14.6	-26.91	39.86
Stage 5	-14.8	-19.93	34.95
Stage 5	-15	-13.94	29.91
Stage 5	-15.2	-8.99	24.75
Stage 5	-15.4	-5.1	19.47
Stage 5	-15.6	-2.29	14.07
Stage 5	-15.8	-0.58	8.54
Stage 5	-16	0	2.89

## Tabella Risultati Paratia Nominal - Stage: Stage 6

Design Assumption: Nominal Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 6	0	0	0
Stage 6	-0.2	0	0
Stage 6	-0.2	0	0
Stage 6	-0.4	-0.09	-0.45
Stage 6	-0.6	-0.36	-1.35
Stage 6	-0.8	-0.9	-2.71
Stage 6	-1	-1.81	-4.53
Stage 6	-1.2	-3.17	-6.81
Stage 6	-1.4	-5.08	-9.54
Stage 6	-1.6	-7.63	-12.73
Stage 6	-1.8	-10.9	-16.4
Stage 6	-2	-15.01	-20.51
Stage 6	-2.2	-20.03	-25.09
Stage 6	-2.4	-26.05	-30.13
Stage 6	-2.6	-33.18	-35.62
Stage 6	-2.8	-41.49	-41.57
Stage 6	-3	-51.09	-47.97
Stage 6	-3.2	-62.05	-54.84
Stage 6	-3.4	-74.48	-62.15
Stage 6	-3.6	-88.46	-69.91
Stage 6	-3.8	-104.09	-78.14
Stage 6	-4	-121.45	-86.81
Stage 6	-4.2	-140.64	-95.94
Stage 6	-4.4	-161.74	-105.52
Stage 6	-4.6	-184.85	-115.55
Stage 6	-4.8	-209.79	-124.67
Stage 6	-5	-236.09	-131.53
Stage 6	-5.2	-263.32	-136.12
Stage 6	-5.4	-291	-138.44
Stage 6	-5.6	-318.7	-138.49
Stage 6	-5.8	-345.96	-136.28
Stage 6	-6	-372.32	-131.8
Stage 6	-6.2	-397.33	-125.05
Stage 6	-6.4	-420.54	-116.03
Stage 6	-6.6	-441.49	-104.75
Stage 6	-6.8	-459.72	-91.19
Stage 6	-7	-475.15	-77.13
Stage 6	-7.2	-487.92	-63.85
Stage 6	-7.4	-498.18	-51.31
Stage 6	-7.6	-506.08	-39.48
Stage 6	-7.8	-511.75	-28.33
Stage 6	-8	-515.31	-17.84
Stage 6	-8.2	-516.91	-7.96
Stage 6	-8.4	-516.64	1.33
Stage 6	-8.6	-514.63	10.07
Stage 6	-8.8	-510.97	18.28
Stage 6	-9	-505.77	26
Stage 6	-9.2	-499.12	33.26
Stage 6	-9.4	-491.1	40.09
Stage 6	-9.6	-481.8	46.52
Stage 6	-9.8	-471.28	52.58
Stage 6	-10	-459.62	58.29
Stage 6	-10.2	-446.88	63.7
Stage 6	-10.4	-433.12	68.81
Stage 6	-10.6	-418.39	73.66
Stage 6	-10.8	-402.73	78.28
Stage 6	-11	-386.2	82.68
Stage 6	-11.2	-368.82	86.9
Stage 6	-11.4	-350.63	90.95
Stage 6	-11.6	-331.65	94.86
Stage 6	-11.8	-311.93	98.64
Stage 6	-12	-291.46	102.31
Stage 6	-12.2	-270.29	105.89
Stage 6	-12.4	-249.08	106.02
Stage 6	-12.6	-227.87	106.08
Stage 6	-12.8	-206.65	106.08

Design Assumption: Nominal Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 6	-13	-185.63	105.09
Stage 6	-13.2	-165.03	103.02
Stage 6	-13.4	-145.05	99.91
Stage 6	-13.6	-125.86	95.92
Stage 6	-13.8	-107.64	91.12
Stage 6	-14	-90.5	85.69
Stage 6	-14.2	-74.55	79.75
Stage 6	-14.4	-59.89	73.32
Stage 6	-14.6	-46.61	66.41
Stage 6	-14.8	-34.8	59.04
Stage 6	-15	-24.56	51.21
Stage 6	-15.2	-15.97	42.93
Stage 6	-15.4	-9.13	34.2
Stage 6	-15.6	-4.13	25.01
Stage 6	-15.8	-1.05	15.37
Stage 6	-16	0	5.27

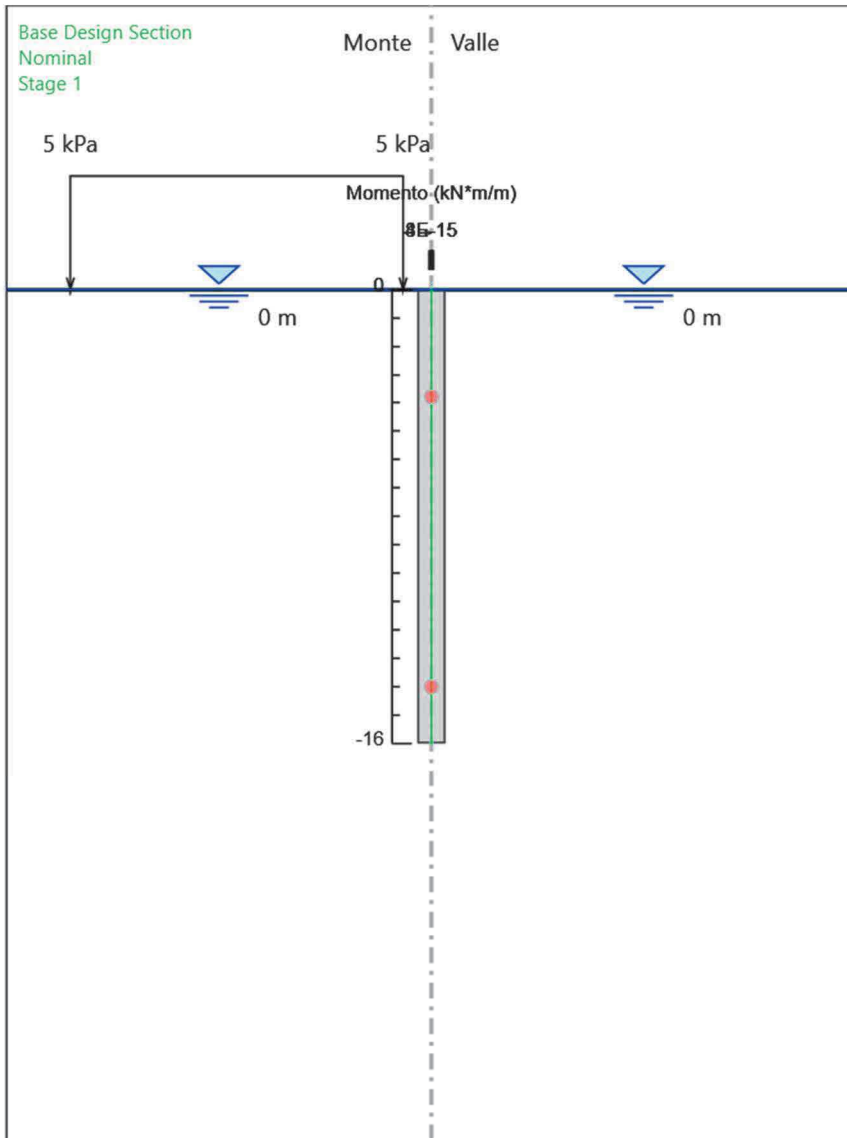


## Tabella Risultati Paratia Nominal - Stage: Stage 7

Design Assumption: Nominal Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 7	0	0	0
Stage 7	-0.2	0	0
Stage 7	-0.2	0	0
Stage 7	-0.4	-0.1	-0.49
Stage 7	-0.6	-0.38	-1.43
Stage 7	-0.8	-0.95	-2.82
Stage 7	-1	-1.88	-4.67
Stage 7	-1.2	-3.28	-6.97
Stage 7	-1.4	-5.22	-9.73
Stage 7	-1.6	-7.81	-12.93
Stage 7	-1.8	-11.13	-16.6
Stage 7	-2	-15.27	-20.71
Stage 7	-2.2	-20.33	-25.28
Stage 7	-2.4	-26.38	-30.29
Stage 7	-2.6	-33.54	-35.77
Stage 7	-2.8	-41.88	-41.69
Stage 7	-3	-51.49	-48.07
Stage 7	-3.2	-62.47	-54.9
Stage 7	-3.4	-74.91	-62.18
Stage 7	-3.6	-88.89	-69.92
Stage 7	-3.8	-104.51	-78.1
Stage 7	-4	-121.86	-86.74
Stage 7	-4.2	-141.03	-95.83
Stage 7	-4.4	-162.1	-105.38
Stage 7	-4.6	-185.18	-115.37
Stage 7	-4.8	-210.08	-124.5
Stage 7	-5	-236.35	-131.36
Stage 7	-5.2	-263.54	-135.96
Stage 7	-5.4	-291.2	-138.28
Stage 7	-5.6	-318.86	-138.34
Stage 7	-5.8	-346.09	-136.13
Stage 7	-6	-372.42	-131.65
Stage 7	-6.2	-397.4	-124.9
Stage 7	-6.4	-420.58	-115.89
Stage 7	-6.6	-441.5	-104.61
Stage 7	-6.8	-459.71	-91.06
Stage 7	-7	-475.11	-77
Stage 7	-7.2	-487.85	-63.72
Stage 7	-7.4	-498.09	-51.18
Stage 7	-7.6	-505.96	-39.35
Stage 7	-7.8	-511.6	-28.21
Stage 7	-8	-515.14	-17.72
Stage 7	-8.2	-516.71	-7.85
Stage 7	-8.4	-516.43	1.44
Stage 7	-8.6	-514.39	10.17
Stage 7	-8.8	-510.72	18.38
Stage 7	-9	-505.5	26.09
Stage 7	-9.2	-498.83	33.34
Stage 7	-9.4	-490.8	40.16
Stage 7	-9.6	-481.48	46.58
Stage 7	-9.8	-470.95	52.63
Stage 7	-10	-459.29	58.33
Stage 7	-10.2	-446.54	63.72
Stage 7	-10.4	-432.78	68.81
Stage 7	-10.6	-418.05	73.64
Stage 7	-10.8	-402.41	78.24
Stage 7	-11	-385.88	82.62
Stage 7	-11.2	-368.52	86.81
Stage 7	-11.4	-350.36	90.83
Stage 7	-11.6	-331.42	94.7
Stage 7	-11.8	-311.73	98.45
Stage 7	-12	-291.31	102.08
Stage 7	-12.2	-270.19	105.62
Stage 7	-12.4	-249.03	105.8
Stage 7	-12.6	-227.85	105.9
Stage 7	-12.8	-206.66	105.93

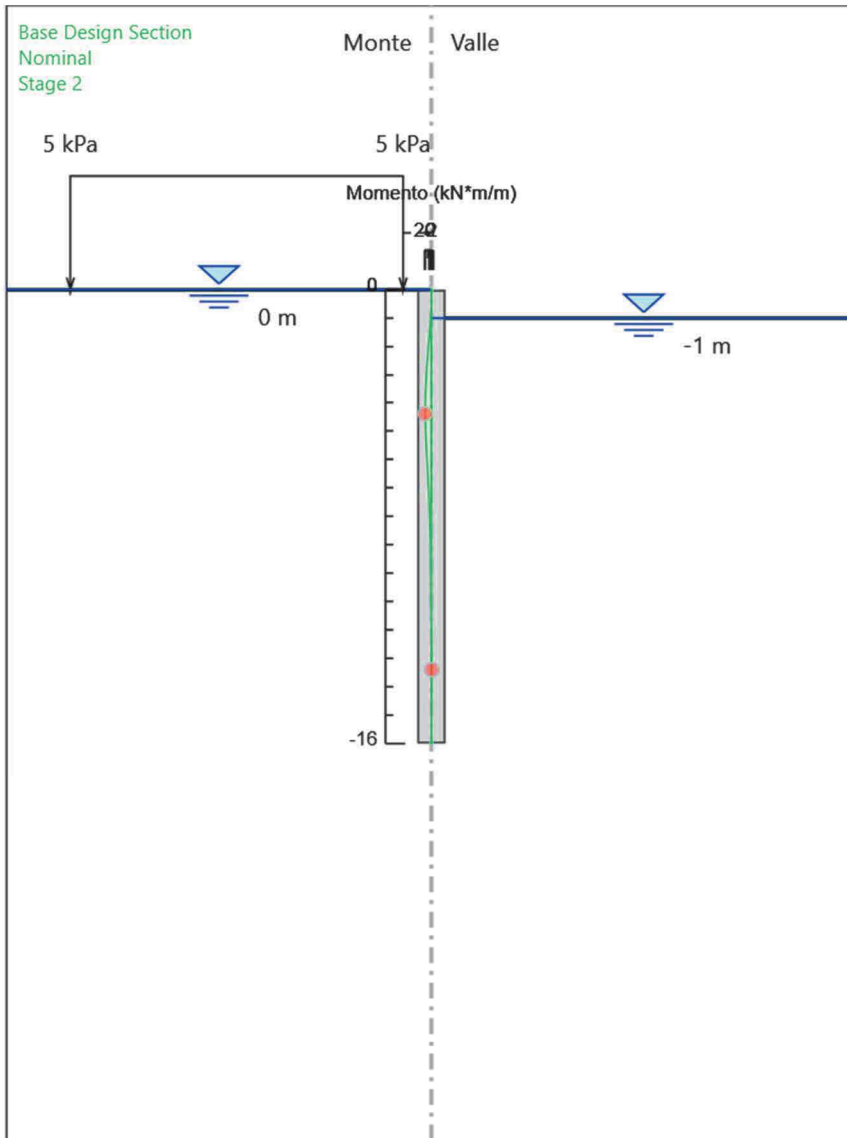
Design Assumption: Nominal Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 7	-13	-185.67	104.98
Stage 7	-13.2	-165.08	102.94
Stage 7	-13.4	-145.11	99.85
Stage 7	-13.6	-125.93	95.89
Stage 7	-13.8	-107.71	91.1
Stage 7	-14	-90.57	85.69
Stage 7	-14.2	-74.62	79.77
Stage 7	-14.4	-59.95	73.35
Stage 7	-14.6	-46.66	66.46
Stage 7	-14.8	-34.84	59.09
Stage 7	-15	-24.59	51.26
Stage 7	-15.2	-15.99	42.98
Stage 7	-15.4	-9.14	34.24
Stage 7	-15.6	-4.14	25.05
Stage 7	-15.8	-1.06	15.39
Stage 7	-16	0	5.28

# Grafico Momento Nominal - Stage: Stage 1



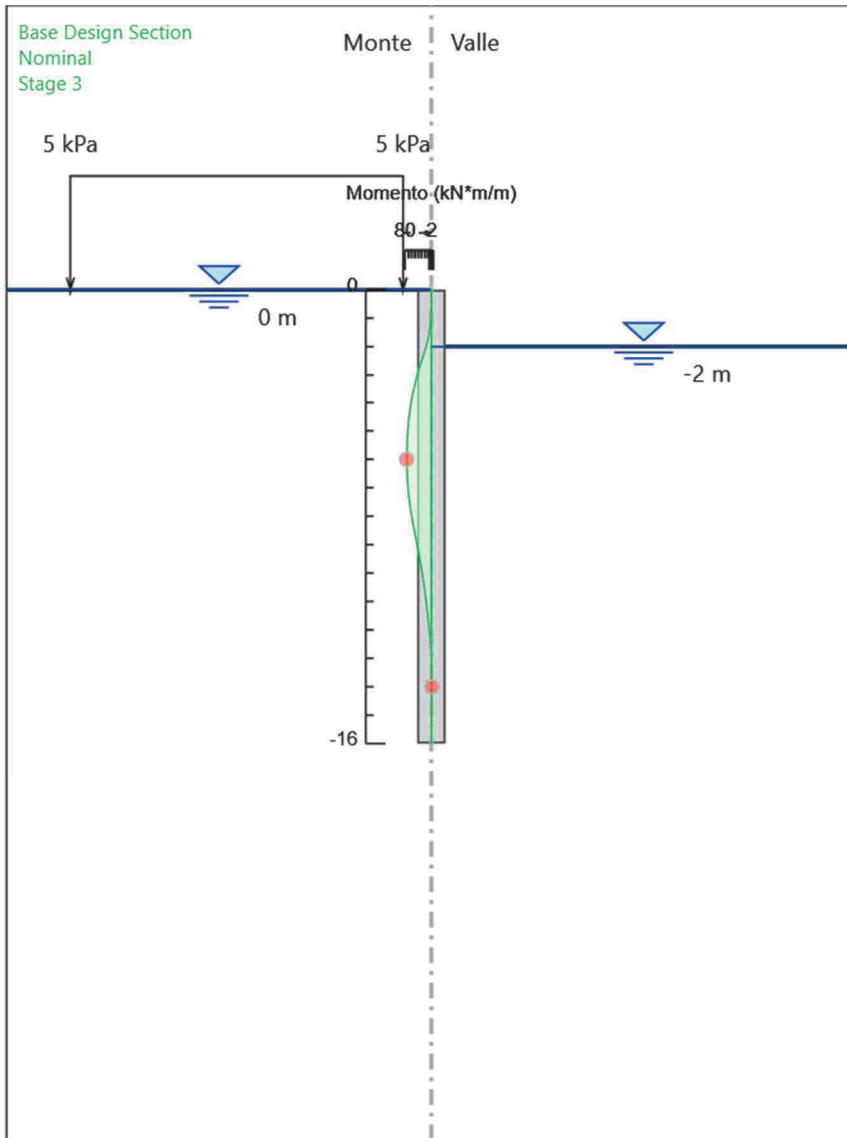
Design Assumption: Nominal  
Stage: Stage 1  
Momento

# Grafico Momento Nominal - Stage: Stage 2



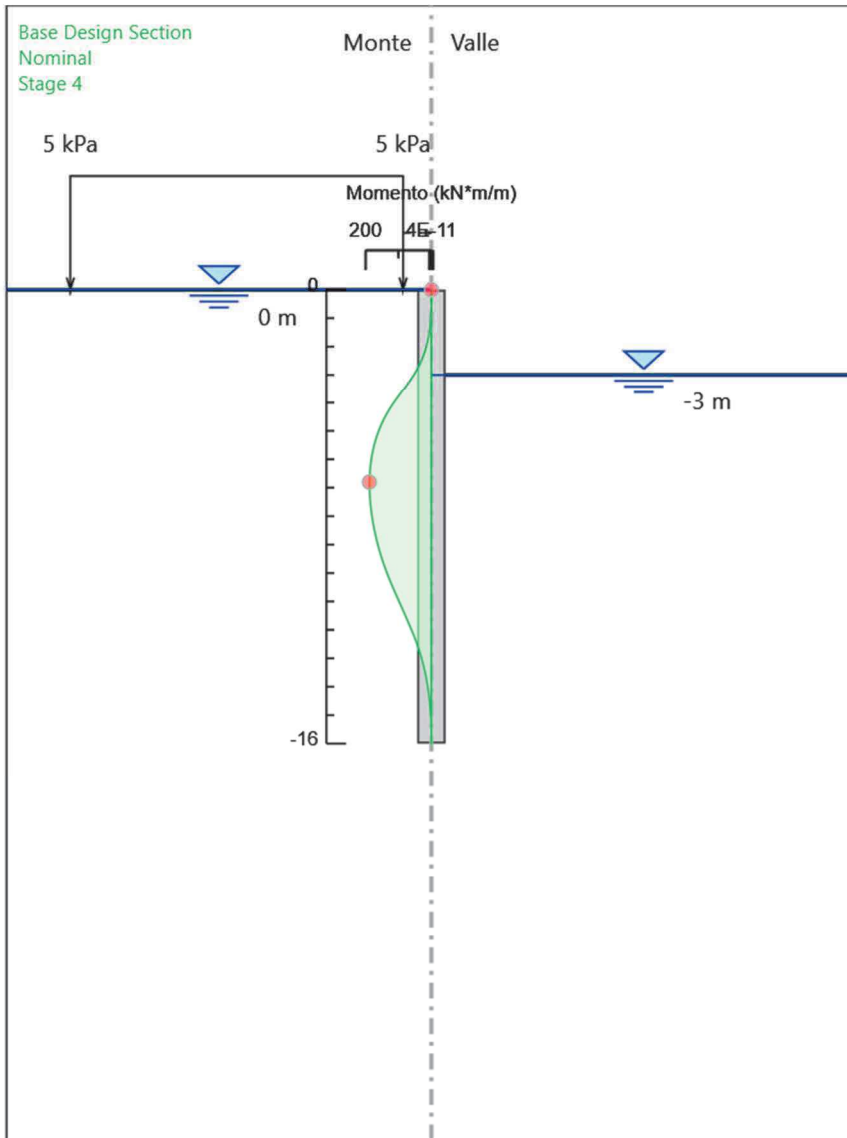
Design Assumption: Nominal  
Stage: Stage 2  
Momento

### Grafico Momento Nominal - Stage: Stage 3



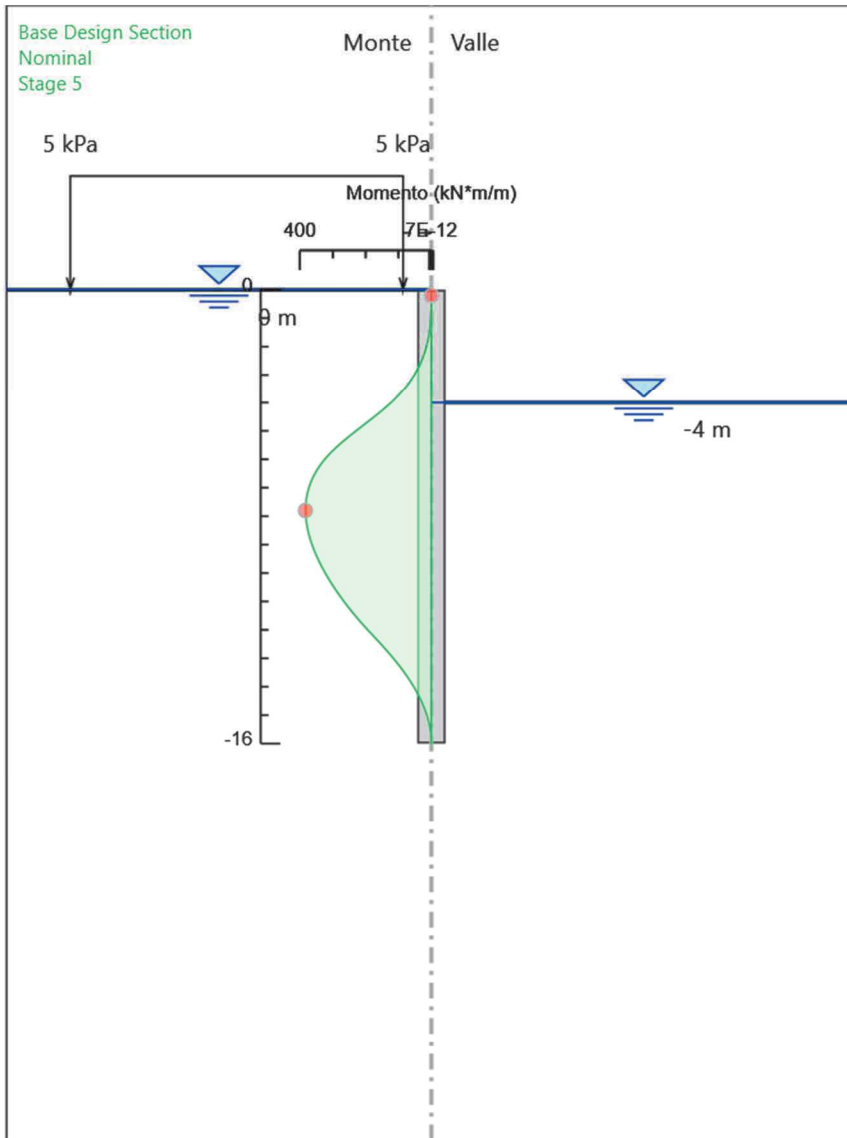
Design Assumption: Nominal  
Stage: Stage 3  
Momento

# Grafico Momento Nominal - Stage: Stage 4



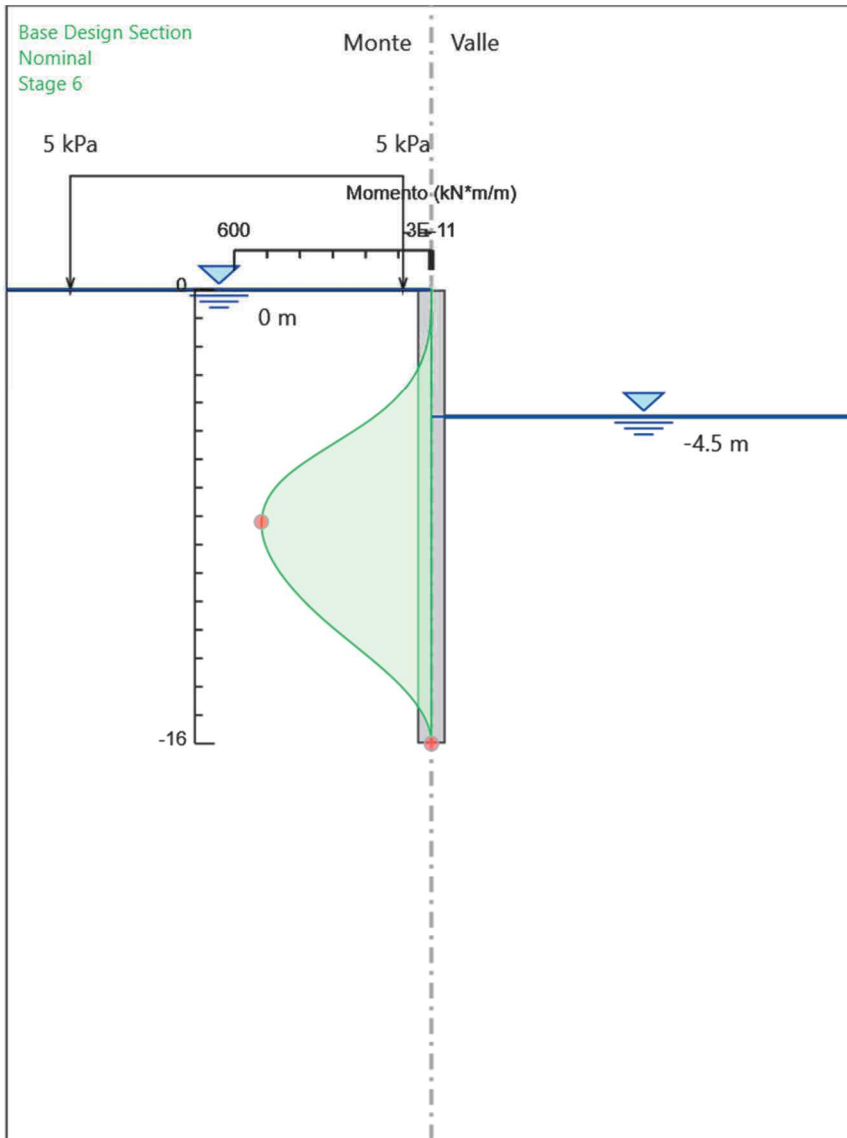
Design Assumption: Nominal  
Stage: Stage 4  
Momento

# Grafico Momento Nominal - Stage: Stage 5



Design Assumption: Nominal  
Stage: Stage 5  
Momento

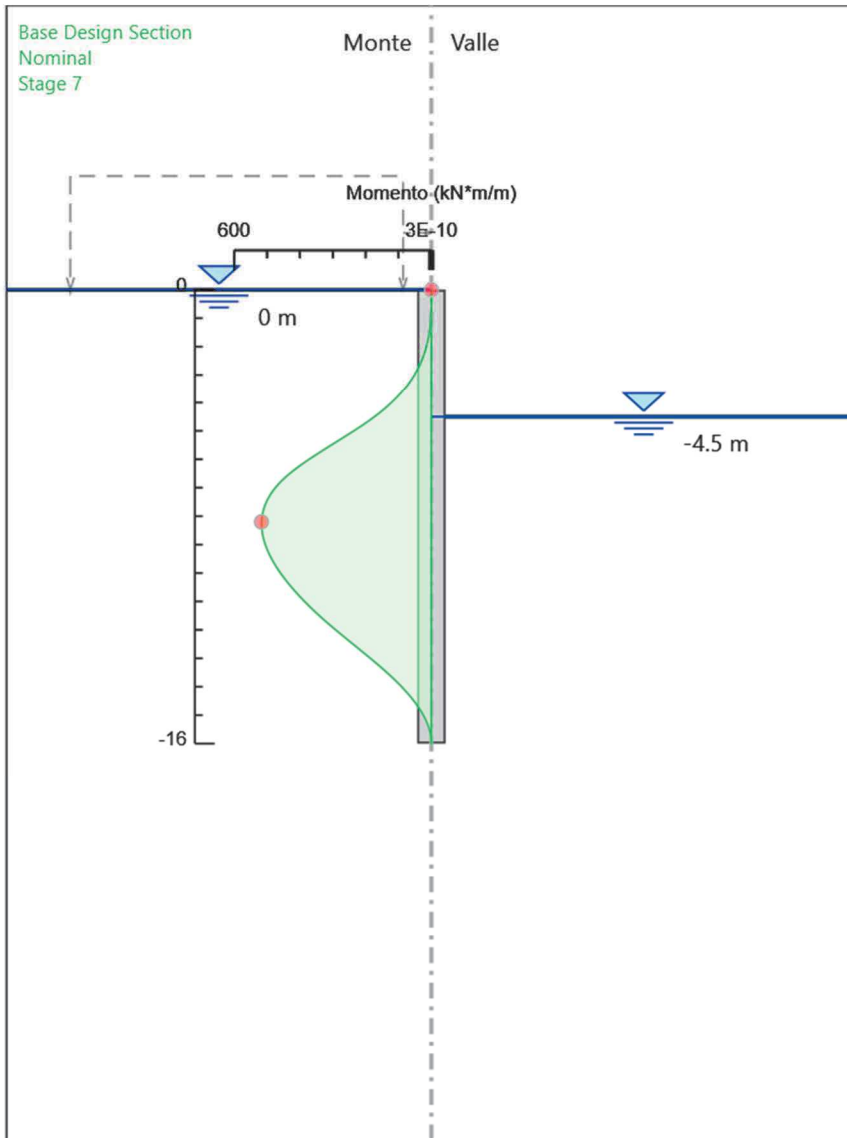
# Grafico Momento Nominal - Stage: Stage 6



Design Assumption: Nominal  
Stage: Stage 6  
Momento

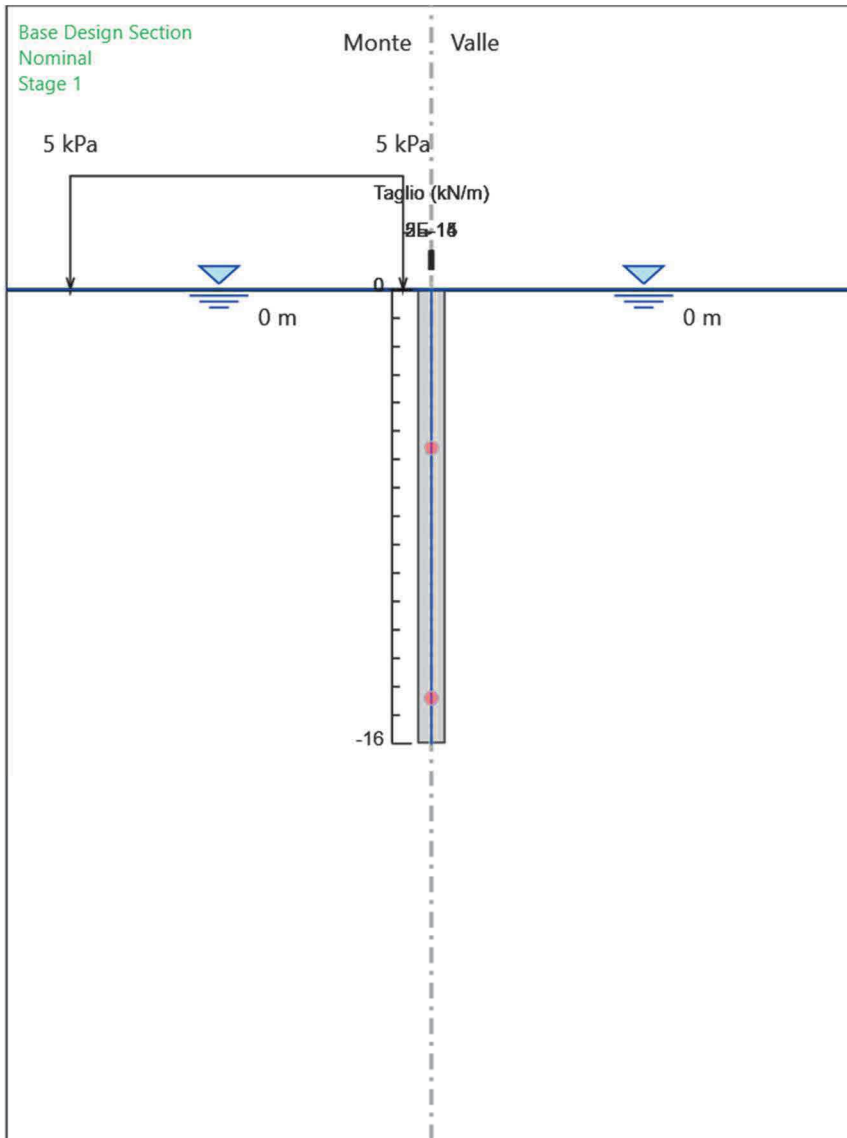


# Grafico Momento Nominal - Stage: Stage 7



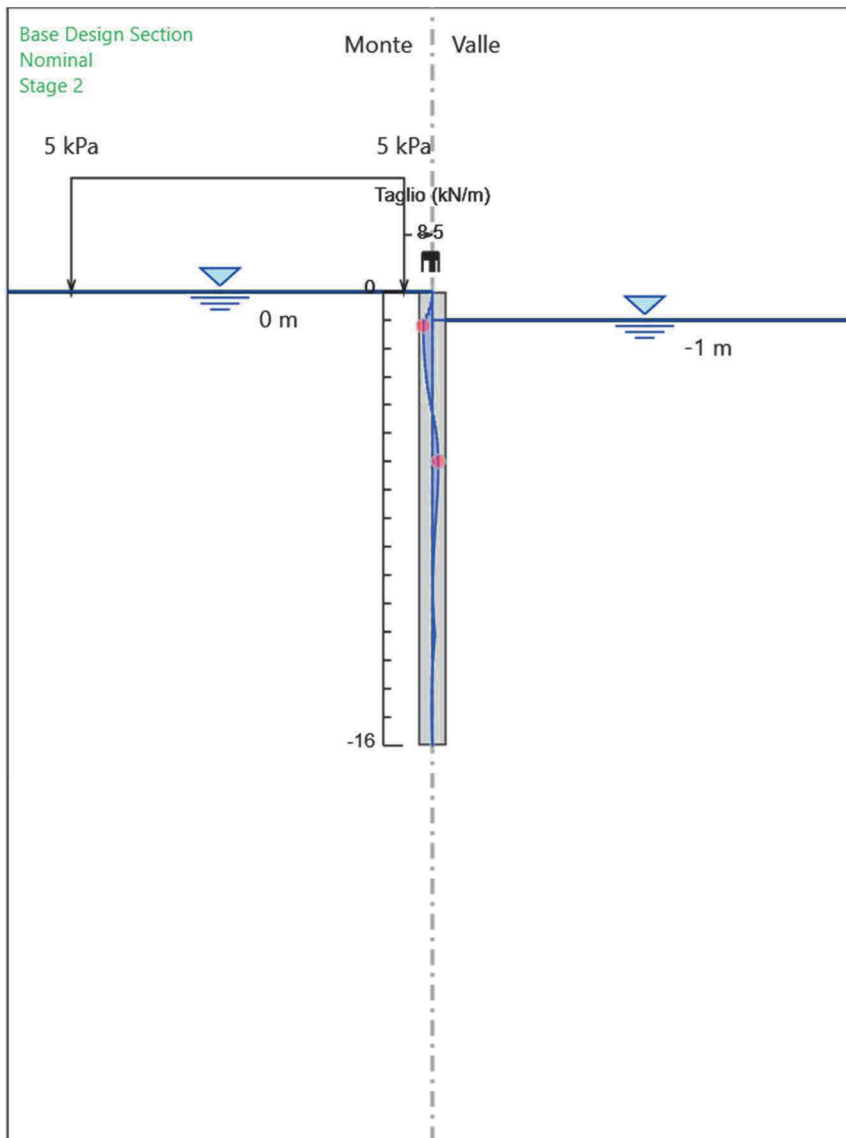
Design Assumption: Nominal  
Stage: Stage 7  
Momento

# Grafico Taglio Nominal - Stage: Stage 1



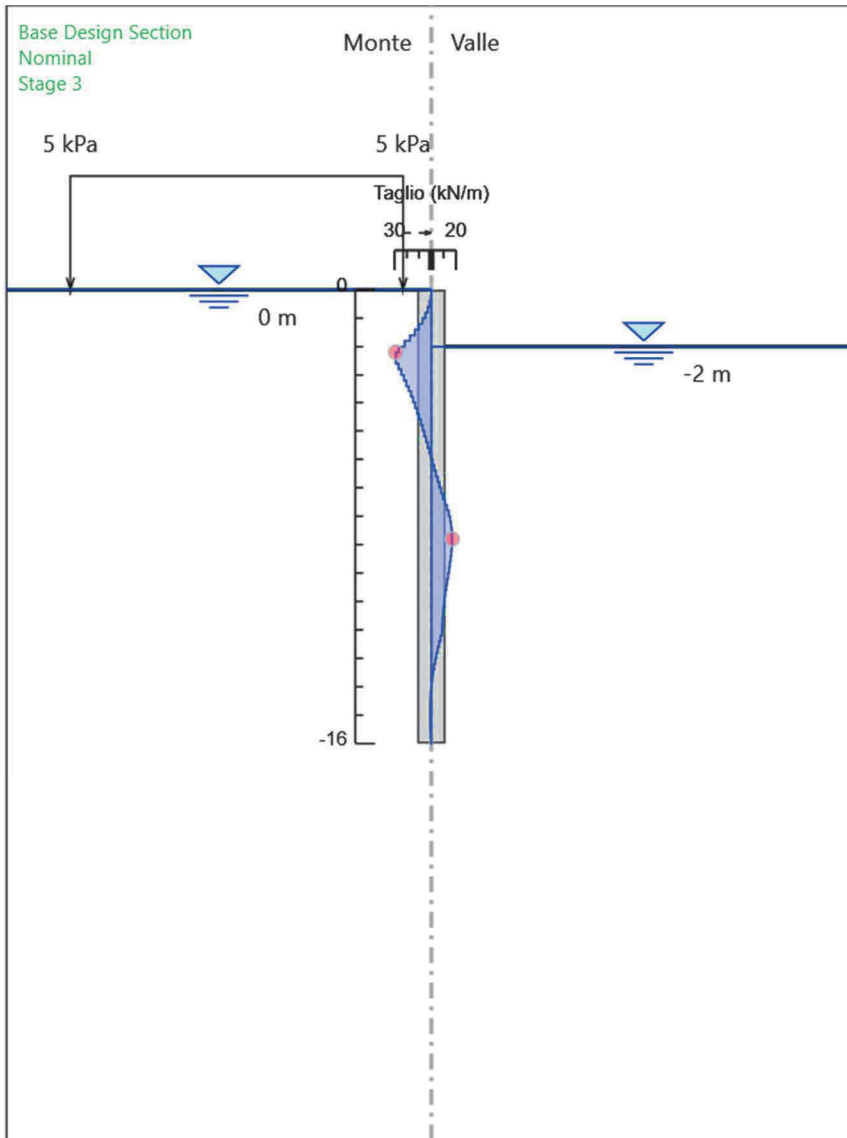
Design Assumption: Nominal  
Stage: Stage 1  
Taglio

## Grafico Taglio Nominal - Stage: Stage 2



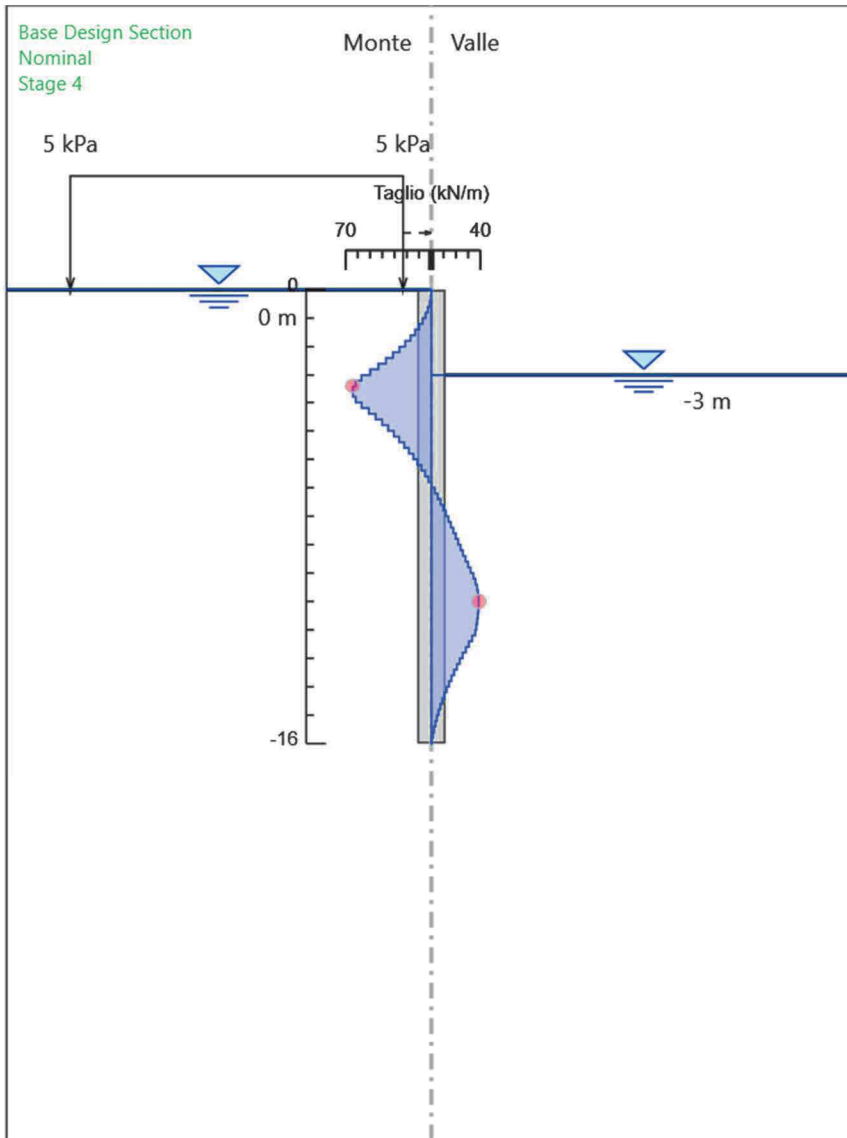
Design Assumption: Nominal  
Stage: Stage 2  
Taglio

### Grafico Taglio Nominal - Stage: Stage 3



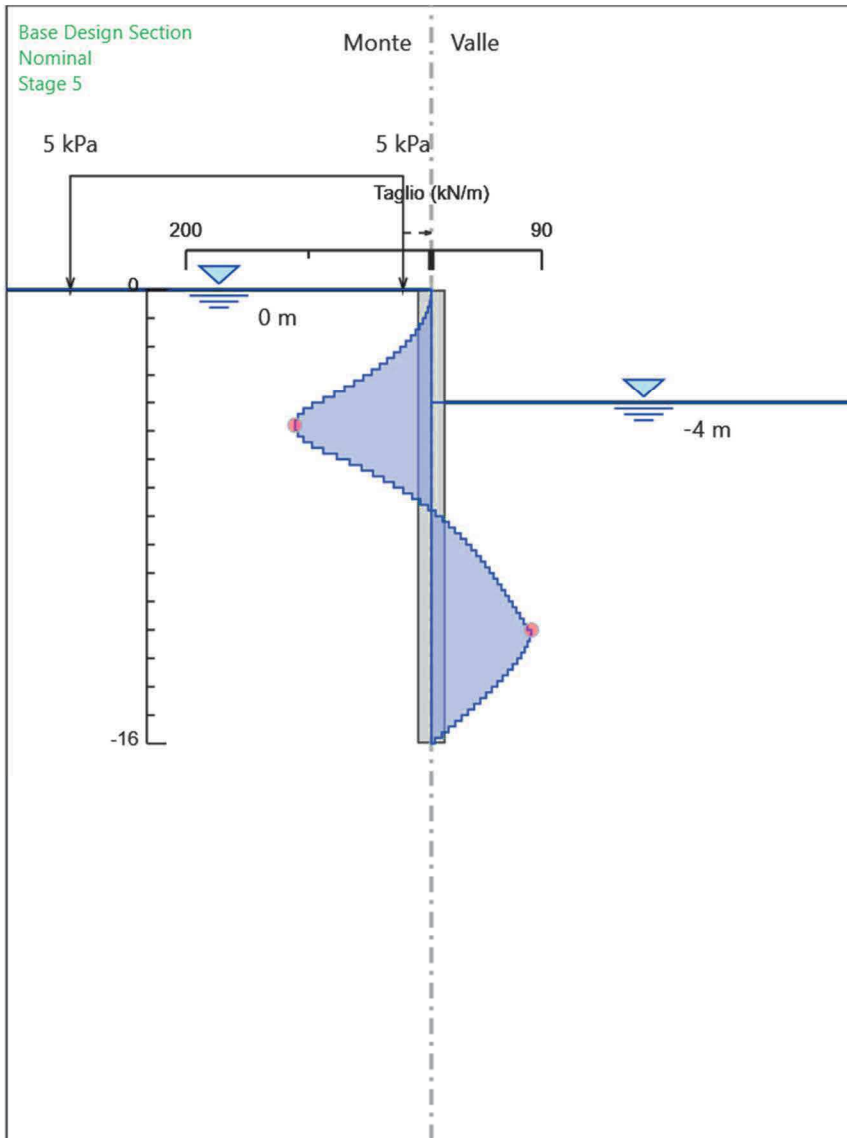
Design Assumption: Nominal  
Stage: Stage 3  
Taglio

### Grafico Taglio Nominal - Stage: Stage 4



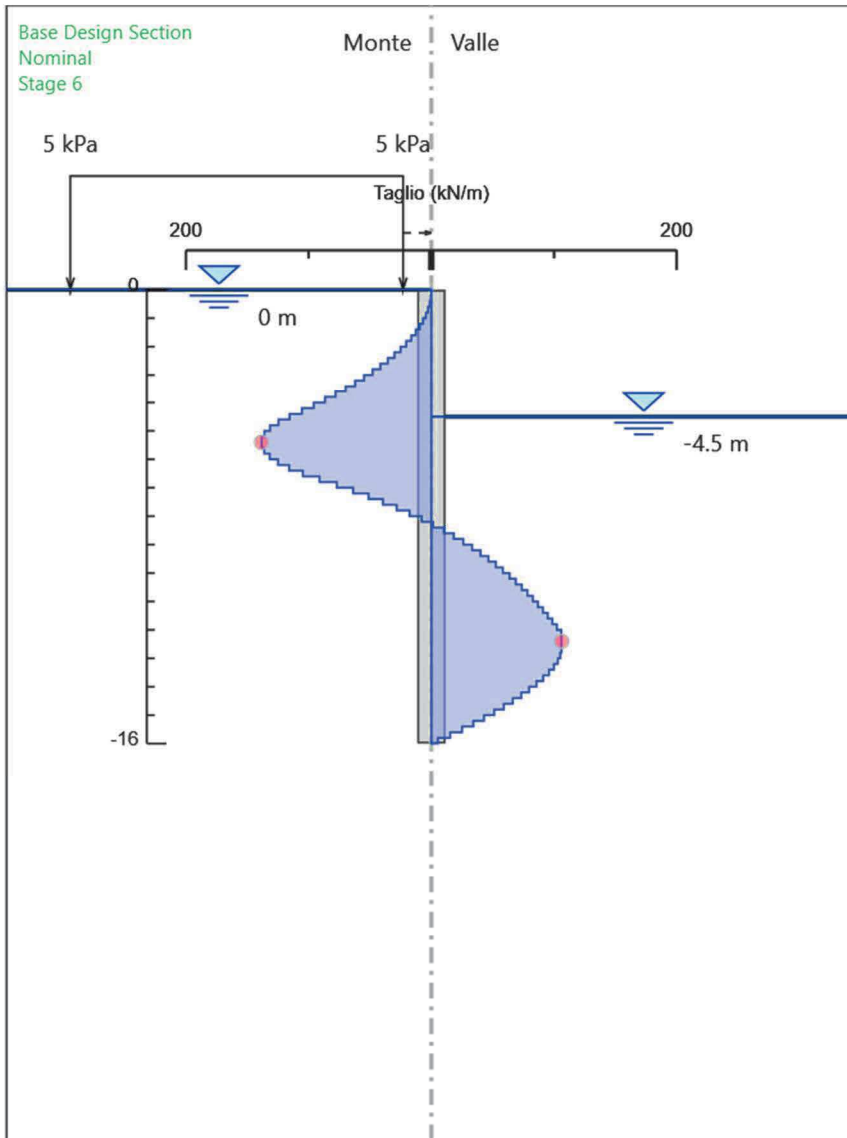
Design Assumption: Nominal  
Stage: Stage 4  
Taglio

### Grafico Taglio Nominal - Stage: Stage 5



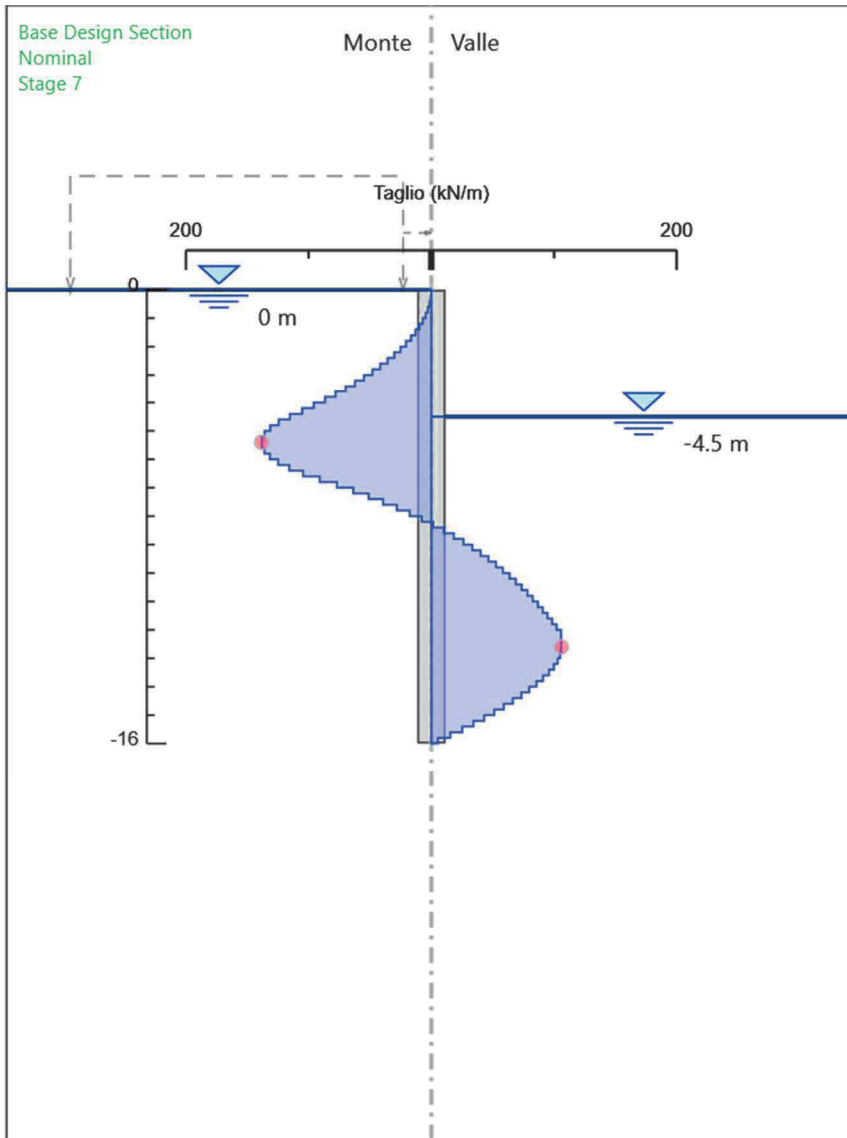
Design Assumption: Nominal  
Stage: Stage 5  
Taglio

# Grafico Taglio Nominal - Stage: Stage 6



Design Assumption: Nominal  
Stage: Stage 6  
Taglio

# Grafico Taglio Nominal - Stage: Stage 7



Design Assumption: Nominal  
Stage: Stage 7  
Taglio



**Inviluppi Risultati Paratia Nominal**

# Risultati Terreno

## Tabella Risultati Terreno Left Wall - Nominal - Stage 1

Design Assumption: Nominal Risultati Terreno										
Stage	Z (m)	Sigma V (kPa)	Sigma H (kPa)	Muro: LEFT	Lato	LEFT				
				Stato	Ka	Kp	Coesione (kPa)	Pore (kPa)	Gradiente U* (kPa)	Peq (kPa)
Stage 1	0	0	0	V-C	0.249	6.738	0	0	0	0
Stage 1	-0.2	2.008	1.57	V-C	0.249	6.738	0	2	0	3.57
Stage 1	-0.4	4.057	3.055	V-C	0.249	6.738	0	4	0	7.055
Stage 1	-0.6	6.158	4.413	V-C	0.249	6.738	0	6	0	10.413
Stage 1	-0.8	8.297	5.651	V-C	0.249	6.738	0	8	0	13.651
Stage 1	-1	10.454	6.797	V-C	0.249	6.738	0	10	0	16.797
Stage 1	-1.2	12.611	7.879	V-C	0.249	6.738	0	12	0	19.879
Stage 1	-1.4	14.874	8.919	V-C	0.249	6.738	0	14	0	22.919
Stage 1	-1.6	17.176	9.931	V-C	0.249	6.738	0	16	0	25.931
Stage 1	-1.8	19.264	10.925	V-C	0.249	6.738	0	18	0	28.925
Stage 1	-2	21.485	11.907	V-C	0.249	6.738	0	20	0	31.907
Stage 1	-2.2	23.67	12.882	V-C	0.249	6.738	0	22	0	34.882
Stage 1	-2.4	25.71	13.851	V-C	0.249	6.738	0	24	0	37.851
Stage 1	-2.6	27.856	14.817	V-C	0.249	6.738	0	26	0	40.817
Stage 1	-2.8	29.984	15.781	V-C	0.249	6.738	0	28	0	43.781
Stage 1	-3	32.097	16.743	V-C	0.249	6.738	0	30	0	46.743
Stage 1	-3.2	34.107	17.704	V-C	0.249	6.738	0	32	0	49.704
Stage 1	-3.4	36.202	18.665	V-C	0.249	6.738	0	34	0	52.665
Stage 1	-3.6	38.287	19.625	V-C	0.249	6.738	0	36	0	55.625
Stage 1	-3.8	40.288	20.586	V-C	0.249	6.738	0	38	0	58.586
Stage 1	-4	42.362	21.546	V-C	0.249	6.738	0	40	0	61.546
Stage 1	-4.2	44.429	22.507	V-C	0.249	6.738	0	42	0	64.507
Stage 1	-4.4	46.425	23.469	V-C	0.249	6.738	0	44	0	67.469
Stage 1	-4.6	48.485	24.431	V-C	0.249	6.738	0	46	0	70.431
Stage 1	-4.8	50.54	25.393	V-C	0.249	6.738	0	48	0	73.393
Stage 1	-5	52.59	26.356	V-C	0.249	6.738	0	50	0	76.356
Stage 1	-5.2	54.582	27.32	V-C	0.249	6.738	0	52	0	79.32
Stage 1	-5.4	56.627	28.284	V-C	0.249	6.738	0	54	0	82.284
Stage 1	-5.6	58.67	29.25	V-C	0.249	6.738	0	56	0	85.25
Stage 1	-5.8	60.66	30.215	V-C	0.249	6.738	0	58	0	88.215
Stage 1	-6	62.699	31.182	V-C	0.249	6.738	0	60	0	91.182
Stage 1	-6.2	64.736	32.149	V-C	0.249	6.738	0	62	0	94.149
Stage 1	-6.4	66.725	33.118	V-C	0.249	6.738	0	64	0	97.118
Stage 1	-6.6	68.759	34.086	V-C	0.249	6.738	0	66	0	100.086
Stage 1	-6.8	70.791	35.056	V-C	0.249	6.738	0	68	0	103.056
Stage 1	-7	72.821	36.026	V-C	0.249	6.738	0	70	0	106.026
Stage 1	-7.2	74.81	36.998	V-C	0.249	6.738	0	72	0	108.998
Stage 1	-7.4	76.838	37.97	V-C	0.249	6.738	0	74	0	111.97
Stage 1	-7.6	78.865	38.942	V-C	0.249	6.738	0	76	0	114.942
Stage 1	-7.8	80.853	39.916	V-C	0.249	6.738	0	78	0	117.916
Stage 1	-8	82.878	40.89	V-C	0.249	6.738	0	80	0	120.89
Stage 1	-8.2	84.902	41.864	V-C	0.249	6.738	0	82	0	123.864
Stage 1	-8.4	86.89	42.84	V-C	0.249	6.738	0	84	0	126.84
Stage 1	-8.6	88.913	43.816	V-C	0.249	6.738	0	86	0	129.816
Stage 1	-8.8	90.935	44.793	V-C	0.249	6.738	0	88	0	132.793
Stage 1	-9	92.956	45.77	V-C	0.249	6.738	0	90	0	135.77
Stage 1	-9.2	94.944	46.749	V-C	0.249	6.738	0	92	0	138.749
Stage 1	-9.4	96.964	47.727	V-C	0.249	6.738	0	94	0	141.727
Stage 1	-9.6	98.982	48.707	V-C	0.249	6.738	0	96	0	144.707
Stage 1	-9.8	100.971	49.687	V-C	0.249	6.738	0	98	0	147.687
Stage 1	-10	102.989	50.668	V-C	0.249	6.738	0	100	0	150.668
Stage 1	-10.2	105.006	51.649	V-C	0.249	6.738	0	102	0	153.649
Stage 1	-10.4	106.995	52.63	V-C	0.249	6.738	0	104	0	156.63
Stage 1	-10.6	109.012	53.613	V-C	0.249	6.738	0	106	0	159.613
Stage 1	-10.8	111.028	54.596	V-C	0.249	6.738	0	108	0	162.596
Stage 1	-11	113.043	55.579	V-C	0.249	6.738	0	110	0	165.579
Stage 1	-11.2	115.032	56.563	V-C	0.249	6.738	0	112	0	168.563
Stage 1	-11.4	117.047	57.547	V-C	0.249	6.738	0	114	0	171.547
Stage 1	-11.6	119.061	58.532	V-C	0.249	6.738	0	116	0	174.532
Stage 1	-11.8	121.05	59.517	V-C	0.249	6.738	0	118	0	177.517
Stage 1	-12	123.064	60.503	V-C	0.249	6.738	0	120	0	180.503
Stage 1	-12.2	124.878	61.389	V-C	0.39	3.404	5	122	0	183.389
Stage 1	-12.4	126.691	62.276	V-C	0.39	3.404	5	124	0	186.276

Design Assumption: Nominal Risultati Terreno											
Stage	Z (m)	Sigma V (kPa)	Sigma H (kPa)	Muro: LEFT	Stato	Ka	Lato Kp	LEFT Coesione (kPa)	Pore (kPa)	Gradiente U* (kPa)	Peq (kPa)
Stage 1	-12.6	128.48	63.163	V-C	0.39	3.404	5	126	0	0	189.163
Stage 1	-12.8	130.27	64.051	V-C	0.39	3.404	5	128	0	0	192.05
Stage 1	-13	132.037	64.938	V-C	0.39	3.404	5	130	0	0	194.938
Stage 1	-13.2	133.805	65.827	V-C	0.39	3.404	5	132	0	0	197.826
Stage 1	-13.4	135.574	66.715	V-C	0.39	3.404	5	134	0	0	200.715
Stage 1	-13.6	137.343	67.604	V-C	0.39	3.404	5	136	0	0	203.604
Stage 1	-13.8	139.113	68.493	V-C	0.39	3.404	5	138	0	0	206.493
Stage 1	-14	140.884	69.383	V-C	0.39	3.404	5	140	0	0	209.383
Stage 1	-14.2	142.655	70.273	V-C	0.39	3.404	5	142	0	0	212.273
Stage 1	-14.4	144.427	71.163	V-C	0.39	3.404	5	144	0	0	215.163
Stage 1	-14.6	146.199	72.054	V-C	0.39	3.404	5	146	0	0	218.054
Stage 1	-14.8	147.972	72.944	V-C	0.39	3.404	5	148	0	0	220.944
Stage 1	-15	149.745	73.836	V-C	0.39	3.404	5	150	0	0	223.835
Stage 1	-15.2	151.519	74.727	V-C	0.39	3.404	5	152	0	0	226.727
Stage 1	-15.4	153.294	75.618	V-C	0.39	3.404	5	154	0	0	229.618
Stage 1	-15.6	155.069	76.51	V-C	0.39	3.404	5	156	0	0	232.51
Stage 1	-15.8	156.844	77.402	V-C	0.39	3.404	5	158	0	0	235.402
Stage 1	-16	158.62	78.295	V-C	0.39	3.404	5	160	0	0	238.295

Design Assumption: Nominal Risultati Terreno			Muro:	LEFT	Lato	RIGHT				
Stage	Z (m)	Sigma V (kPa)	Sigma H (kPa)	Stato	Ka	Kp	Coesione (kPa)	Pore (kPa)	Gradiente U* (kPa)	Peq (kPa)
Stage 1	0	0	0	V-C	0.2496.738		0	0	0	0
Stage 1	-0.2	2	1.57	V-C	0.2496.738		0	2	0	3.57
Stage 1	-0.4	4	3.055	V-C	0.2496.738		0	4	0	7.055
Stage 1	-0.6	6	4.413	V-C	0.2496.738		0	6	0	10.413
Stage 1	-0.8	8	5.651	V-C	0.2496.738		0	8	0	13.651
Stage 1	-1	10	6.797	V-C	0.2496.738		0	10	0	16.797
Stage 1	-1.2	12	7.879	V-C	0.2496.738		0	12	0	19.879
Stage 1	-1.4	14	8.919	V-C	0.2496.738		0	14	0	22.919
Stage 1	-1.6	16	9.931	V-C	0.2496.738		0	16	0	25.931
Stage 1	-1.8	18	10.925	V-C	0.2496.738		0	18	0	28.925
Stage 1	-2	20	11.907	V-C	0.2496.738		0	20	0	31.907
Stage 1	-2.2	22	12.882	V-C	0.2496.738		0	22	0	34.882
Stage 1	-2.4	24	13.851	V-C	0.2496.738		0	24	0	37.851
Stage 1	-2.6	26	14.817	V-C	0.2496.738		0	26	0	40.817
Stage 1	-2.8	28	15.781	V-C	0.2496.738		0	28	0	43.781
Stage 1	-3	30	16.743	V-C	0.2496.738		0	30	0	46.743
Stage 1	-3.2	32	17.704	V-C	0.2496.738		0	32	0	49.704
Stage 1	-3.4	34	18.665	V-C	0.2496.738		0	34	0	52.665
Stage 1	-3.6	36	19.625	V-C	0.2496.738		0	36	0	55.625
Stage 1	-3.8	38	20.586	V-C	0.2496.738		0	38	0	58.586
Stage 1	-4	40	21.546	V-C	0.2496.738		0	40	0	61.546
Stage 1	-4.2	42	22.507	V-C	0.2496.738		0	42	0	64.507
Stage 1	-4.4	44	23.469	V-C	0.2496.738		0	44	0	67.469
Stage 1	-4.6	46	24.431	V-C	0.2496.738		0	46	0	70.431
Stage 1	-4.8	48	25.393	V-C	0.2496.738		0	48	0	73.393
Stage 1	-5	50	26.356	V-C	0.2496.738		0	50	0	76.356
Stage 1	-5.2	52	27.32	V-C	0.2496.738		0	52	0	79.32
Stage 1	-5.4	54	28.284	V-C	0.2496.738		0	54	0	82.284
Stage 1	-5.6	56	29.25	V-C	0.2496.738		0	56	0	85.25
Stage 1	-5.8	58	30.215	V-C	0.2496.738		0	58	0	88.215
Stage 1	-6	60	31.182	V-C	0.2496.738		0	60	0	91.182
Stage 1	-6.2	62	32.149	V-C	0.2496.738		0	62	0	94.149
Stage 1	-6.4	64	33.118	V-C	0.2496.738		0	64	0	97.118
Stage 1	-6.6	66	34.086	V-C	0.2496.738		0	66	0	100.086
Stage 1	-6.8	68	35.056	V-C	0.2496.738		0	68	0	103.056
Stage 1	-7	70	36.026	V-C	0.2496.738		0	70	0	106.026
Stage 1	-7.2	72	36.998	V-C	0.2496.738		0	72	0	108.998
Stage 1	-7.4	74	37.97	V-C	0.2496.738		0	74	0	111.97
Stage 1	-7.6	76	38.942	V-C	0.2496.738		0	76	0	114.942
Stage 1	-7.8	78	39.916	V-C	0.2496.738		0	78	0	117.916
Stage 1	-8	80	40.89	V-C	0.2496.738		0	80	0	120.89
Stage 1	-8.2	82	41.864	V-C	0.2496.738		0	82	0	123.864
Stage 1	-8.4	84	42.84	V-C	0.2496.738		0	84	0	126.84
Stage 1	-8.6	86	43.816	V-C	0.2496.738		0	86	0	129.816
Stage 1	-8.8	88	44.793	V-C	0.2496.738		0	88	0	132.793
Stage 1	-9	90	45.77	V-C	0.2496.738		0	90	0	135.77
Stage 1	-9.2	92	46.749	V-C	0.2496.738		0	92	0	138.749
Stage 1	-9.4	94	47.727	V-C	0.2496.738		0	94	0	141.727
Stage 1	-9.6	96	48.707	V-C	0.2496.738		0	96	0	144.707
Stage 1	-9.8	98	49.687	V-C	0.2496.738		0	98	0	147.687
Stage 1	-10	100	50.668	V-C	0.2496.738		0	100	0	150.668
Stage 1	-10.2	102	51.649	V-C	0.2496.738		0	102	0	153.649
Stage 1	-10.4	104	52.63	V-C	0.2496.738		0	104	0	156.63
Stage 1	-10.6	106	53.613	V-C	0.2496.738		0	106	0	159.613
Stage 1	-10.8	108	54.596	V-C	0.2496.738		0	108	0	162.596
Stage 1	-11	110	55.579	V-C	0.2496.738		0	110	0	165.579
Stage 1	-11.2	112	56.563	V-C	0.2496.738		0	112	0	168.563
Stage 1	-11.4	114	57.547	V-C	0.2496.738		0	114	0	171.547
Stage 1	-11.6	116	58.532	V-C	0.2496.738		0	116	0	174.532
Stage 1	-11.8	118	59.517	V-C	0.2496.738		0	118	0	177.517
Stage 1	-12	120	60.503	V-C	0.2496.738		0	120	0	180.503
Stage 1	-12.2	121.8	61.389	V-C	0.39 3.404	5	122	0	0	183.389
Stage 1	-12.4	123.6	62.276	V-C	0.39 3.404	5	124	0	0	186.276
Stage 1	-12.6	125.4	63.163	V-C	0.39 3.404	5	126	0	0	189.163
Stage 1	-12.8	127.2	64.051	V-C	0.39 3.404	5	128	0	0	192.05
Stage 1	-13	129	64.938	V-C	0.39 3.404	5	130	0	0	194.938
Stage 1	-13.2	130.8	65.827	V-C	0.39 3.404	5	132	0	0	197.826
Stage 1	-13.4	132.6	66.715	V-C	0.39 3.404	5	134	0	0	200.715
Stage 1	-13.6	134.4	67.604	V-C	0.39 3.404	5	136	0	0	203.604

Design Assumption: Nominal Risultati Terreno											
Stage	Z (m)	Sigma V (kPa)	Sigma H (kPa)	Muro: LEFT		Lato		RIGHT			
				Stato	Ka	Kp	Coesione (kPa)	Pore (kPa)	Gradiente U* (kPa)	Peq (kPa)	
Stage 1	-13.8	136.2	68.493	V-C	0.39	3.404	5	138	0	0	206.493
Stage 1	-14	138	69.383	V-C	0.39	3.404	5	140	0	0	209.383
Stage 1	-14.2	139.8	70.273	V-C	0.39	3.404	5	142	0	0	212.273
Stage 1	-14.4	141.6	71.163	V-C	0.39	3.404	5	144	0	0	215.163
Stage 1	-14.6	143.4	72.054	V-C	0.39	3.404	5	146	0	0	218.054
Stage 1	-14.8	145.2	72.944	V-C	0.39	3.404	5	148	0	0	220.944
Stage 1	-15	147	73.836	V-C	0.39	3.404	5	150	0	0	223.835
Stage 1	-15.2	148.8	74.727	V-C	0.39	3.404	5	152	0	0	226.727
Stage 1	-15.4	150.6	75.618	V-C	0.39	3.404	5	154	0	0	229.618
Stage 1	-15.6	152.4	76.51	V-C	0.39	3.404	5	156	0	0	232.51
Stage 1	-15.8	154.2	77.402	V-C	0.39	3.404	5	158	0	0	235.402
Stage 1	-16	156	78.295	V-C	0.39	3.404	5	160	0	0	238.295

## Tabella Risultati Terreno Left Wall - Nominal - Stage 2

Design Assumption: Nominal Risultati Terreno				Muro:	LEFT	Lato	LEFT			
Stage	Z (m)	Sigma V (kPa)	Sigma H (kPa)	Stato	Ka	Kp	Coesione (kPa)	Pore (kPa)	Gradiente U* (kPa)	Peq (kPa)
Stage 2	0	0	0	ACTIVE	0.2496.738		0	0	0	0
Stage 2	-0.2	2.073	0.516	ACTIVE	0.2496.738		0	1.935	0.032	0 2.452
Stage 2	-0.4	4.186	1.042	ACTIVE	0.2496.738		0	3.871	0.032	0 4.913
Stage 2	-0.6	6.351	1.581	ACTIVE	0.2496.738		0	5.806	0.032	0 7.388
Stage 2	-0.8	8.555	2.13	ACTIVE	0.2496.738		0	7.742	0.032	0 9.872
Stage 2	-1	10.776	2.683	ACTIVE	0.2496.738		0	9.677	0.032	0 12.361
Stage 2	-1.2	12.998	3.236	ACTIVE	0.2496.738		0	11.613	0.032	0 14.849
Stage 2	-1.4	15.326	3.816	ACTIVE	0.2496.738		0	13.548	0.032	0 17.365
Stage 2	-1.6	17.692	4.405	ACTIVE	0.2496.738		0	15.484	0.032	0 19.889
Stage 2	-1.8	19.845	4.941	ACTIVE	0.2496.738		0	17.419	0.032	0 22.361
Stage 2	-2	22.13	5.51	ACTIVE	0.2496.738		0	19.355	0.032	0 24.865
Stage 2	-2.2	24.38	6.071	ACTIVE	0.2496.738		0	21.29	0.032	0 27.361
Stage 2	-2.4	26.484	6.594	ACTIVE	0.2496.738		0	23.226	0.032	0 29.82
Stage 2	-2.6	28.695	7.145	ACTIVE	0.2496.738		0	25.161	0.032	0 32.306
Stage 2	-2.8	30.888	7.691	ACTIVE	0.2496.738		0	27.097	0.032	0 34.788
Stage 2	-3	33.065	8.233	ACTIVE	0.2496.738		0	29.032	0.032	0 37.265
Stage 2	-3.2	35.14	8.75	ACTIVE	0.2496.738		0	30.968	0.032	0 39.718
Stage 2	-3.4	37.299	9.287	ACTIVE	0.2496.738		0	32.903	0.032	0 42.191
Stage 2	-3.6	39.449	9.823	ACTIVE	0.2496.738		0	34.839	0.032	0 44.661
Stage 2	-3.8	41.514	10.337	ACTIVE	0.2496.738		0	36.774	0.032	0 47.111
Stage 2	-4	43.652	10.869	ACTIVE	0.2496.738		0	38.71	0.032	0 49.579
Stage 2	-4.2	45.784	11.4	ACTIVE	0.2496.738		0	40.645	0.032	0 52.045
Stage 2	-4.4	47.844	11.913	ACTIVE	0.2496.738		0	42.581	0.032	0 54.494
Stage 2	-4.6	49.969	13.166	UL-RL	0.2496.738		0	44.516	0.032	0 57.682
Stage 2	-4.8	52.088	15.006	UL-RL	0.2496.738		0	46.452	0.032	0 61.457
Stage 2	-5	54.203	16.773	UL-RL	0.2496.738		0	48.387	0.032	0 65.16
Stage 2	-5.2	56.259	18.47	UL-RL	0.2496.738		0	50.323	0.032	0 68.793
Stage 2	-5.4	58.369	20.099	UL-RL	0.2496.738		0	52.258	0.032	0 72.358
Stage 2	-5.6	60.477	21.665	UL-RL	0.2496.738		0	54.194	0.032	0 75.858
Stage 2	-5.8	62.531	23.169	UL-RL	0.2496.738		0	56.129	0.032	0 79.298
Stage 2	-6	64.635	24.616	UL-RL	0.2496.738		0	58.065	0.032	0 82.68
Stage 2	-6.2	66.736	26.009	UL-RL	0.2496.738		0	60	0.032	0 86.009
Stage 2	-6.4	68.79	27.353	UL-RL	0.2496.738		0	61.935	0.032	0 89.289
Stage 2	-6.6	70.888	28.651	UL-RL	0.2496.738		0	63.871	0.032	0 92.522
Stage 2	-6.8	72.985	29.908	UL-RL	0.2496.738		0	65.806	0.032	0 95.714
Stage 2	-7	75.079	31.126	UL-RL	0.2496.738		0	67.742	0.032	0 98.868
Stage 2	-7.2	77.132	32.309	UL-RL	0.2496.738		0	69.677	0.032	0 101.986
Stage 2	-7.4	79.225	33.461	UL-RL	0.2496.738		0	71.613	0.032	0 105.074
Stage 2	-7.6	81.316	34.585	UL-RL	0.2496.738		0	73.548	0.032	0 108.133
Stage 2	-7.8	83.369	35.683	UL-RL	0.2496.738		0	75.484	0.032	0 111.167
Stage 2	-8	85.459	36.759	UL-RL	0.2496.738		0	77.419	0.032	0 114.178
Stage 2	-8.2	87.547	37.814	UL-RL	0.2496.738		0	79.355	0.032	0 117.169
Stage 2	-8.4	89.6	38.852	UL-RL	0.2496.738		0	81.29	0.032	0 120.142
Stage 2	-8.6	91.687	39.873	UL-RL	0.2496.738		0	83.226	0.032	0 123.099
Stage 2	-8.8	93.774	40.88	UL-RL	0.2496.738		0	85.161	0.032	0 126.042
Stage 2	-9	95.859	41.875	UL-RL	0.2496.738		0	87.097	0.032	0 128.971
Stage 2	-9.2	97.911	42.857	UL-RL	0.2496.738		0	89.032	0.032	0 131.89
Stage 2	-9.4	99.996	43.83	UL-RL	0.2496.738		0	90.968	0.032	0 134.797
Stage 2	-9.6	102.079	44.792	UL-RL	0.2496.738		0	92.903	0.032	0 137.695
Stage 2	-9.8	104.132	45.746	UL-RL	0.2496.738		0	94.839	0.032	0 140.585
Stage 2	-10	106.215	46.692	UL-RL	0.2496.738		0	96.774	0.032	0 143.466
Stage 2	-10.2	108.297	47.63	UL-RL	0.2496.738		0	98.71	0.032	0 146.339
Stage 2	-10.4	110.35	48.56	UL-RL	0.2496.738		0	100.645	0.032	0 149.205
Stage 2	-10.6	112.431	49.484	UL-RL	0.2496.738		0	102.581	0.032	0 152.064
Stage 2	-10.8	114.512	50.401	UL-RL	0.2496.738		0	104.516	0.032	0 154.917
Stage 2	-11	116.592	51.313	UL-RL	0.2496.738		0	106.452	0.032	0 157.764
Stage 2	-11.2	118.645	52.218	UL-RL	0.2496.738		0	108.387	0.032	0 160.605
Stage 2	-11.4	120.724	53.119	UL-RL	0.2496.738		0	110.322	0.032	0 163.442
Stage 2	-11.6	122.803	54.015	UL-RL	0.2496.738		0	112.258	0.032	0 166.273
Stage 2	-11.8	124.857	54.909	UL-RL	0.2496.738		0	114.194	0.032	0 169.102
Stage 2	-12	126.935	55.8	UL-RL	0.2496.738		0	116.129	0.032	0 171.928
Stage 2	-12.2	128.813	60.117	UL-RL	0.39 3.404		5	118.064	0.032	0 178.182
Stage 2	-12.4	130.691	60.975	UL-RL	0.39 3.404		5	120	0.032	0 180.975
Stage 2	-12.6	132.545	61.834	UL-RL	0.39 3.404		5	121.935	0.032	0 183.769
Stage 2	-12.8	134.399	62.695	UL-RL	0.39 3.404		5	123.871	0.032	0 186.565
Stage 2	-13	136.231	63.557	UL-RL	0.39 3.404		5	125.806	0.032	0 189.364

Design Assumption: Nominal Risultati Terreno												
Stage	Z (m)	Sigma V (kPa)	Sigma H (kPa)	Muro: LEFT	Stato	Ka	Lato LEFT	Kp	Coesione (kPa)	Pore (kPa)	Gradiente U* (kPa)	Peq (kPa)
Stage 2	-13.2	138.063	64.422	UL-RL	0.39	3.404	5	127.742	0.032	0	192.164	
Stage 2	-13.4	139.896	65.29	UL-RL	0.39	3.404	5	129.677	0.032	0	194.967	
Stage 2	-13.6	141.73	66.16	UL-RL	0.39	3.404	5	131.613	0.032	0	197.773	
Stage 2	-13.8	143.565	67.033	UL-RL	0.39	3.404	5	133.548	0.032	0	200.581	
Stage 2	-14	145.4	67.908	UL-RL	0.39	3.404	5	135.484	0.032	0	203.391	
Stage 2	-14.2	147.236	68.785	UL-RL	0.39	3.404	5	137.419	0.032	0	206.204	
Stage 2	-14.4	149.072	69.664	UL-RL	0.39	3.404	5	139.355	0.032	0	209.018	
Stage 2	-14.6	150.909	70.545	UL-RL	0.39	3.404	5	141.29	0.032	0	211.835	
Stage 2	-14.8	152.746	71.427	UL-RL	0.39	3.404	5	143.226	0.032	0	214.653	
Stage 2	-15	154.584	72.311	UL-RL	0.39	3.404	5	145.161	0.032	0	217.472	
Stage 2	-15.2	156.423	73.195	UL-RL	0.39	3.404	5	147.097	0.032	0	220.292	
Stage 2	-15.4	158.262	74.08	UL-RL	0.39	3.404	5	149.032	0.032	0	223.113	
Stage 2	-15.6	160.101	74.966	UL-RL	0.39	3.404	5	150.968	0.032	0	225.934	
Stage 2	-15.8	161.941	75.853	UL-RL	0.39	3.404	5	152.903	0.032	0	228.756	
Stage 2	-16	163.781	76.739	UL-RL	0.39	3.404	5	154.839	0.032	0	231.578	

Design Assumption: Nominal Risultati Terreno			Muro:	LEFT	Lato	RIGHT					
Stage	Z (m)	Sigma V (kPa)	Sigma H (kPa)	Stato	Ka	Kp	Coesione (kPa)	Pore (kPa)	Gradiente U* (kPa)	Peq (kPa)	
Stage 2	0	0	0	REMOVED	0	0	0	0	0	0	
Stage 2	-0.2	0	0	REMOVED	0	0	0	0	0	0	
Stage 2	-0.4	0	0	REMOVED	0	0	0	0	0	0	
Stage 2	-0.6	0	0	REMOVED	0	0	0	0	0	0	
Stage 2	-0.8	0	0	REMOVED	0	0	0	0	0	0	
Stage 2	-1	0	0	PASSIVE	0.2496.738		0	0	0	0	
Stage 2	-1.2	1.935	12.722	V-C	0.2496.738		0	2.065	0.032	0	14.786
Stage 2	-1.4	3.871	13.554	V-C	0.2496.738		0	4.129	0.032	0	17.683
Stage 2	-1.6	5.806	14.317	V-C	0.2496.738		0	6.194	0.032	0	20.51
Stage 2	-1.8	7.742	15.048	V-C	0.2496.738		0	8.258	0.032	0	23.306
Stage 2	-2	9.677	15.763	V-C	0.2496.738		0	10.323	0.032	0	26.085
Stage 2	-2.2	11.613	16.47	V-C	0.2496.738		0	12.387	0.032	0	28.857
Stage 2	-2.4	13.548	17.175	V-C	0.2496.738		0	14.452	0.032	0	31.626
Stage 2	-2.6	15.484	17.882	V-C	0.2496.738		0	16.516	0.032	0	34.398
Stage 2	-2.8	17.419	18.593	V-C	0.2496.738		0	18.581	0.032	0	37.173
Stage 2	-3	19.355	19.311	V-C	0.2496.738		0	20.645	0.032	0	39.956
Stage 2	-3.2	21.29	20.037	V-C	0.2496.738		0	22.71	0.032	0	42.746
Stage 2	-3.4	23.226	20.772	V-C	0.2496.738		0	24.774	0.032	0	45.546
Stage 2	-3.6	25.161	21.518	V-C	0.2496.738		0	26.839	0.032	0	48.357
Stage 2	-3.8	27.097	22.275	V-C	0.2496.738		0	28.903	0.032	0	51.178
Stage 2	-4	29.032	23.044	V-C	0.2496.738		0	30.968	0.032	0	54.012
Stage 2	-4.2	30.968	23.825	V-C	0.2496.738		0	33.032	0.032	0	56.857
Stage 2	-4.4	32.903	24.619	V-C	0.2496.738		0	35.097	0.032	0	59.716
Stage 2	-4.6	34.839	25.426	V-C	0.2496.738		0	37.161	0.032	0	62.587
Stage 2	-4.8	36.774	26.245	V-C	0.2496.738		0	39.226	0.032	0	65.471
Stage 2	-5	38.71	27.077	V-C	0.2496.738		0	41.29	0.032	0	68.367
Stage 2	-5.2	40.645	27.921	V-C	0.2496.738		0	43.355	0.032	0	71.276
Stage 2	-5.4	42.581	28.777	V-C	0.2496.738		0	45.419	0.032	0	74.196
Stage 2	-5.6	44.516	29.644	V-C	0.2496.738		0	47.484	0.032	0	77.128
Stage 2	-5.8	46.452	30.522	V-C	0.2496.738		0	49.548	0.032	0	80.071
Stage 2	-6	48.387	31.411	V-C	0.2496.738		0	51.613	0.032	0	83.024
Stage 2	-6.2	50.323	32.309	V-C	0.2496.738		0	53.677	0.032	0	85.986
Stage 2	-6.4	52.258	33.216	V-C	0.2496.738		0	55.742	0.032	0	88.958
Stage 2	-6.6	54.194	34.066	UL-RL	0.2496.738		0	57.806	0.032	0	91.872
Stage 2	-6.8	56.129	34.925	UL-RL	0.2496.738		0	59.871	0.032	0	94.796
Stage 2	-7	58.064	35.803	UL-RL	0.2496.738		0	61.935	0.032	0	97.739
Stage 2	-7.2	60	36.699	UL-RL	0.2496.738		0	64	0.032	0	100.699
Stage 2	-7.4	61.935	37.611	UL-RL	0.2496.738		0	66.064	0.032	0	103.675
Stage 2	-7.6	63.871	38.536	UL-RL	0.2496.738		0	68.129	0.032	0	106.665
Stage 2	-7.8	65.806	39.467	UL-RL	0.2496.738		0	70.194	0.032	0	109.661
Stage 2	-8	67.742	40.393	UL-RL	0.2496.738		0	72.258	0.032	0	112.651
Stage 2	-8.2	69.677	41.33	UL-RL	0.2496.738		0	74.323	0.032	0	115.652
Stage 2	-8.4	71.613	42.276	UL-RL	0.2496.738		0	76.387	0.032	0	118.663
Stage 2	-8.6	73.548	43.231	UL-RL	0.2496.738		0	78.452	0.032	0	121.683
Stage 2	-8.8	75.484	44.195	UL-RL	0.2496.738		0	80.516	0.032	0	124.711
Stage 2	-9	77.419	45.166	UL-RL	0.2496.738		0	82.581	0.032	0	127.746
Stage 2	-9.2	79.355	46.143	UL-RL	0.2496.738		0	84.645	0.032	0	130.788
Stage 2	-9.4	81.29	47.126	UL-RL	0.2496.738		0	86.71	0.032	0	133.836
Stage 2	-9.6	83.226	48.115	UL-RL	0.2496.738		0	88.774	0.032	0	136.89
Stage 2	-9.8	85.161	49.11	UL-RL	0.2496.738		0	90.839	0.032	0	139.948
Stage 2	-10	87.097	50.109	UL-RL	0.2496.738		0	92.903	0.032	0	143.012
Stage 2	-10.2	89.032	51.113	UL-RL	0.2496.738		0	94.968	0.032	0	146.08
Stage 2	-10.4	90.968	52.121	UL-RL	0.2496.738		0	97.032	0.032	0	149.153
Stage 2	-10.6	92.903	53.133	UL-RL	0.2496.738		0	99.097	0.032	0	152.23
Stage 2	-10.8	94.839	54.15	UL-RL	0.2496.738		0	101.161	0.032	0	155.311
Stage 2	-11	96.774	55.17	UL-RL	0.2496.738		0	103.226	0.032	0	158.396
Stage 2	-11.2	98.71	56.194	UL-RL	0.2496.738		0	105.29	0.032	0	161.484
Stage 2	-11.4	100.645	57.22	UL-RL	0.2496.738		0	107.355	0.032	0	164.575
Stage 2	-11.6	102.581	58.25	UL-RL	0.2496.738		0	109.419	0.032	0	167.669
Stage 2	-11.8	104.516	59.282	UL-RL	0.2496.738		0	111.484	0.032	0	170.766
Stage 2	-12	106.452	60.316	UL-RL	0.2496.738		0	113.548	0.032	0	173.864
Stage 2	-12.2	108.187	60.415	UL-RL	0.39 3.404		5	115.613	0.032	0	176.028
Stage 2	-12.4	109.922	61.334	UL-RL	0.39 3.404		5	117.677	0.032	0	179.012
Stage 2	-12.6	111.658	62.253	UL-RL	0.39 3.404		5	119.742	0.032	0	181.995
Stage 2	-12.8	113.394	63.171	UL-RL	0.39 3.404		5	121.806	0.032	0	184.977
Stage 2	-13	115.129	64.088	UL-RL	0.39 3.404		5	123.871	0.032	0	187.959
Stage 2	-13.2	116.864	65.004	UL-RL	0.39 3.404		5	125.935	0.032	0	190.939
Stage 2	-13.4	118.6	65.918	UL-RL	0.39 3.404		5	128	0.032	0	193.918
Stage 2	-13.6	120.335	66.832	UL-RL	0.39 3.404		5	130.064	0.032	0	196.896



Design Assumption: Nominal Risultati Terreno											
Stage	Z (m)	Muro:		LEFT	Lato		RIGHT	Pore (kPa)	Gradiente U* (kPa)	Peq (kPa)	
		Sigma V (kPa)	Sigma H (kPa)	Stato	Ka	Kp	Coesione (kPa)				
Stage 2	-13.8	122.071	67.743	UL-RL	0.39	3.404	5	132.129	0.032	0	199.872
Stage 2	-14	123.806	68.654	UL-RL	0.39	3.404	5	134.194	0.032	0	202.847
Stage 2	-14.2	125.542	69.563	UL-RL	0.39	3.404	5	136.258	0.032	0	205.821
Stage 2	-14.4	127.277	70.472	UL-RL	0.39	3.404	5	138.322	0.032	0	208.794
Stage 2	-14.6	129.013	71.379	UL-RL	0.39	3.404	5	140.387	0.032	0	211.766
Stage 2	-14.8	130.748	72.286	UL-RL	0.39	3.404	5	142.452	0.032	0	214.738
Stage 2	-15	132.484	73.192	UL-RL	0.39	3.404	5	144.516	0.032	0	217.708
Stage 2	-15.2	134.219	74.098	UL-RL	0.39	3.404	5	146.58	0.032	0	220.679
Stage 2	-15.4	135.955	75.004	UL-RL	0.39	3.404	5	148.645	0.032	0	223.649
Stage 2	-15.6	137.69	75.91	UL-RL	0.39	3.404	5	150.71	0.032	0	226.62
Stage 2	-15.8	139.426	76.816	UL-RL	0.39	3.404	5	152.774	0.032	0	229.59
Stage 2	-16	141.161	77.723	UL-RL	0.39	3.404	5	154.839	0.032	0	232.561

### Tabella Risultati Terreno Left Wall - Nominal - Stage 3

Design Assumption: Nominal Risultati Terreno				Muro:	LEFT	Lato	LEFT			
Stage	Z (m)	Sigma V (kPa)	Sigma H (kPa)	Stato	Ka	Kp	Coesione (kPa)	Pore (kPa)	Gradiente U* (kPa)	Peq (kPa)
Stage 3	0	0	0	ACTIVE	0.2496.738		0	0	0	0
Stage 3	-0.2	2.141	0.533	ACTIVE	0.2496.738		0	1.867	0.067	0 2.4
Stage 3	-0.4	4.323	1.077	ACTIVE	0.2496.738		0	3.733	0.067	0 4.81
Stage 3	-0.6	6.558	1.633	ACTIVE	0.2496.738		0	5.6	0.067	0 7.233
Stage 3	-0.8	8.831	2.199	ACTIVE	0.2496.738		0	7.467	0.067	0 9.665
Stage 3	-1	11.12	2.769	ACTIVE	0.2496.738		0	9.333	0.067	0 12.102
Stage 3	-1.2	13.411	3.339	ACTIVE	0.2496.738		0	11.2	0.067	0 14.539
Stage 3	-1.4	15.808	3.936	ACTIVE	0.2496.738		0	13.067	0.067	0 17.003
Stage 3	-1.6	18.243	4.542	ACTIVE	0.2496.738		0	14.933	0.067	0 19.476
Stage 3	-1.8	20.464	5.096	ACTIVE	0.2496.738		0	16.8	0.067	0 21.896
Stage 3	-2	22.818	5.682	ACTIVE	0.2496.738		0	18.667	0.067	0 24.348
Stage 3	-2.2	25.137	6.259	ACTIVE	0.2496.738		0	20.533	0.067	0 26.792
Stage 3	-2.4	27.31	6.8	ACTIVE	0.2496.738		0	22.4	0.067	0 29.2
Stage 3	-2.6	29.59	7.368	ACTIVE	0.2496.738		0	24.267	0.067	0 31.634
Stage 3	-2.8	31.851	7.931	ACTIVE	0.2496.738		0	26.133	0.067	0 34.064
Stage 3	-3	34.097	8.49	ACTIVE	0.2496.738		0	28	0.067	0 36.49
Stage 3	-3.2	36.241	9.024	ACTIVE	0.2496.738		0	29.867	0.067	0 38.891
Stage 3	-3.4	38.469	9.579	ACTIVE	0.2496.738		0	31.733	0.067	0 41.312
Stage 3	-3.6	40.687	10.131	ACTIVE	0.2496.738		0	33.6	0.067	0 43.731
Stage 3	-3.8	42.822	10.663	ACTIVE	0.2496.738		0	35.467	0.067	0 46.129
Stage 3	-4	45.029	11.212	ACTIVE	0.2496.738		0	37.333	0.067	0 48.546
Stage 3	-4.2	47.229	11.76	ACTIVE	0.2496.738		0	39.2	0.067	0 50.96
Stage 3	-4.4	49.358	12.29	ACTIVE	0.2496.738		0	41.067	0.067	0 53.357
Stage 3	-4.6	51.551	12.836	ACTIVE	0.2496.738		0	42.933	0.067	0 55.77
Stage 3	-4.8	53.74	13.381	ACTIVE	0.2496.738		0	44.8	0.067	0 58.181
Stage 3	-5	55.924	13.925	ACTIVE	0.2496.738		0	46.667	0.067	0 60.592
Stage 3	-5.2	58.048	14.454	ACTIVE	0.2496.738		0	48.533	0.067	0 62.987
Stage 3	-5.4	60.227	14.997	ACTIVE	0.2496.738		0	50.4	0.067	0 65.397
Stage 3	-5.6	62.404	15.538	ACTIVE	0.2496.738		0	52.267	0.067	0 67.805
Stage 3	-5.8	64.527	16.067	ACTIVE	0.2496.738		0	54.133	0.067	0 70.2
Stage 3	-6	66.699	16.608	ACTIVE	0.2496.738		0	56	0.067	0 72.608
Stage 3	-6.2	68.869	17.148	ACTIVE	0.2496.738		0	57.867	0.067	0 75.015
Stage 3	-6.4	70.992	17.677	ACTIVE	0.2496.738		0	59.733	0.067	0 77.41
Stage 3	-6.6	73.159	18.217	ACTIVE	0.2496.738		0	61.6	0.067	0 79.817
Stage 3	-6.8	75.324	18.756	ACTIVE	0.2496.738		0	63.467	0.067	0 82.222
Stage 3	-7	77.488	19.295	ACTIVE	0.2496.738		0	65.333	0.067	0 84.628
Stage 3	-7.2	79.61	19.823	ACTIVE	0.2496.738		0	67.2	0.067	0 87.023
Stage 3	-7.4	81.771	20.361	ACTIVE	0.2496.738		0	69.067	0.067	0 89.428
Stage 3	-7.6	83.931	20.899	ACTIVE	0.2496.738		0	70.933	0.067	0 91.832
Stage 3	-7.8	86.053	22.799	UL-RL	0.2496.738		0	72.8	0.067	0 95.599
Stage 3	-8	88.211	25.581	UL-RL	0.2496.738		0	74.667	0.067	0 100.248
Stage 3	-8.2	90.369	28.167	UL-RL	0.2496.738		0	76.533	0.067	0 104.7
Stage 3	-8.4	92.49	30.567	UL-RL	0.2496.738		0	78.4	0.067	0 108.966
Stage 3	-8.6	94.646	32.791	UL-RL	0.2496.738		0	80.267	0.067	0 113.057
Stage 3	-8.8	96.801	34.851	UL-RL	0.2496.738		0	82.133	0.067	0 116.984
Stage 3	-9	98.956	36.757	UL-RL	0.2496.738		0	84	0.067	0 120.757
Stage 3	-9.2	101.077	38.521	UL-RL	0.2496.738		0	85.867	0.067	0 124.387
Stage 3	-9.4	103.23	40.153	UL-RL	0.2496.738		0	87.733	0.067	0 127.886
Stage 3	-9.6	105.382	41.664	UL-RL	0.2496.738		0	89.6	0.067	0 131.264
Stage 3	-9.8	107.504	43.065	UL-RL	0.2496.738		0	91.467	0.067	0 134.532
Stage 3	-10	109.656	44.365	UL-RL	0.2496.738		0	93.333	0.067	0 137.698
Stage 3	-10.2	111.806	45.573	UL-RL	0.2496.738		0	95.2	0.067	0 140.773
Stage 3	-10.4	113.928	46.698	UL-RL	0.2496.738		0	97.067	0.067	0 143.765
Stage 3	-10.6	116.078	47.749	UL-RL	0.2496.738		0	98.933	0.067	0 146.683
Stage 3	-10.8	118.228	48.734	UL-RL	0.2496.738		0	100.8	0.067	0 149.534
Stage 3	-11	120.376	49.66	UL-RL	0.2496.738		0	102.667	0.067	0 152.326
Stage 3	-11.2	122.499	50.533	UL-RL	0.2496.738		0	104.533	0.067	0 155.067
Stage 3	-11.4	124.647	51.362	UL-RL	0.2496.738		0	106.4	0.067	0 157.762
Stage 3	-11.6	126.795	52.151	UL-RL	0.2496.738		0	108.267	0.067	0 160.418
Stage 3	-11.8	128.917	52.908	UL-RL	0.2496.738		0	110.133	0.067	0 163.041
Stage 3	-12	131.064	53.638	UL-RL	0.2496.738		0	112	0.067	0 165.638
Stage 3	-12.2	133.011	60.09	UL-RL	0.39 3.404		5	113.867	0.067	0 173.957
Stage 3	-12.4	134.958	60.872	UL-RL	0.39 3.404		5	115.733	0.067	0 176.605
Stage 3	-12.6	136.88	61.649	UL-RL	0.39 3.404		5	117.6	0.067	0 179.249
Stage 3	-12.8	138.803	62.423	UL-RL	0.39 3.404		5	119.467	0.067	0 181.89
Stage 3	-13	140.704	63.197	UL-RL	0.39 3.404		5	121.333	0.067	0 184.531

Design Assumption: Nominal Risultati Terreno												
Stage	Z (m)	Sigma V (kPa)	Sigma H (kPa)	Muro: LEFT	Stato	Ka	Lato LEFT	Kp	Coesione (kPa)	Pore (kPa)	Gradiente U* (kPa)	Peq (kPa)
Stage 3	-13.2	142.605	63.972	UL-RL	0.39	3.404	5	123.2	0.067	0	187.172	
Stage 3	-13.4	144.507	64.748	UL-RL	0.39	3.404	5	125.067	0.067	0	189.814	
Stage 3	-13.6	146.41	65.526	UL-RL	0.39	3.404	5	126.933	0.067	0	192.459	
Stage 3	-13.8	148.313	66.307	UL-RL	0.39	3.404	5	128.8	0.067	0	195.106	
Stage 3	-14	150.217	67.09	UL-RL	0.39	3.404	5	130.667	0.067	0	197.757	
Stage 3	-14.2	152.122	67.877	UL-RL	0.39	3.404	5	132.533	0.067	0	200.41	
Stage 3	-14.4	154.027	68.666	UL-RL	0.39	3.404	5	134.4	0.067	0	203.066	
Stage 3	-14.6	155.932	69.459	UL-RL	0.39	3.404	5	136.267	0.067	0	205.725	
Stage 3	-14.8	157.839	70.253	UL-RL	0.39	3.404	5	138.133	0.067	0	208.386	
Stage 3	-15	159.745	71.05	UL-RL	0.39	3.404	5	140	0.067	0	211.049	
Stage 3	-15.2	161.653	71.848	UL-RL	0.39	3.404	5	141.867	0.067	0	213.714	
Stage 3	-15.4	163.56	72.647	UL-RL	0.39	3.404	5	143.733	0.067	0	216.38	
Stage 3	-15.6	165.469	73.447	UL-RL	0.39	3.404	5	145.6	0.067	0	219.047	
Stage 3	-15.8	167.377	74.247	UL-RL	0.39	3.404	5	147.467	0.067	0	221.714	
Stage 3	-16	169.287	75.048	UL-RL	0.39	3.404	5	149.333	0.067	0	224.382	

Design Assumption: Nominal Risultati Terreno			Muro:	LEFT	Lato	RIGHT					
Stage	Z (m)	Sigma V (kPa)	Sigma H (kPa)	Stato	Ka	Kp	Coesione (kPa)	Pore (kPa)	Gradiente U* (kPa)	Peq (kPa)	
Stage 3	0	0	0	REMOVED	0	0	0	0	0	0	
Stage 3	-0.2	0	0	REMOVED	0	0	0	0	0	0	
Stage 3	-0.4	0	0	REMOVED	0	0	0	0	0	0	
Stage 3	-0.6	0	0	REMOVED	0	0	0	0	0	0	
Stage 3	-0.8	0	0	REMOVED	0	0	0	0	0	0	
Stage 3	-1	0	0	REMOVED	0	0	0	0	0	0	
Stage 3	-1.2	0	0	REMOVED	0	0	0	0	0	0	
Stage 3	-1.4	0	0	REMOVED	0	0	0	0	0	0	
Stage 3	-1.6	0	0	REMOVED	0	0	0	0	0	0	
Stage 3	-1.8	0	0	REMOVED	0	0	0	0	0	0	
Stage 3	-2	0	0	PASSIVE	0.2496.738		0	0	0	0	
Stage 3	-2.2	1.867	12.578	PASSIVE	0.2496.738		0	2.133	0.067	0	14.711
Stage 3	-2.4	3.733	25.155	PASSIVE	0.2496.738		0	4.267	0.067	0	29.422
Stage 3	-2.6	5.6	36.8	V-C	0.2496.738		0	6.4	0.067	0	43.2
Stage 3	-2.8	7.467	36.586	V-C	0.2496.738		0	8.533	0.067	0	45.119
Stage 3	-3	9.333	36.373	V-C	0.2496.738		0	10.667	0.067	0	47.04
Stage 3	-3.2	11.2	36.171	V-C	0.2496.738		0	12.8	0.067	0	48.971
Stage 3	-3.4	13.067	35.988	V-C	0.2496.738		0	14.933	0.067	0	50.921
Stage 3	-3.6	14.933	35.828	V-C	0.2496.738		0	17.067	0.067	0	52.894
Stage 3	-3.8	16.8	35.695	V-C	0.2496.738		0	19.2	0.067	0	54.895
Stage 3	-4	18.667	35.592	V-C	0.2496.738		0	21.333	0.067	0	56.926
Stage 3	-4.2	20.533	35.522	V-C	0.2496.738		0	23.467	0.067	0	58.989
Stage 3	-4.4	22.4	35.487	V-C	0.2496.738		0	25.6	0.067	0	61.087
Stage 3	-4.6	24.267	35.489	V-C	0.2496.738		0	27.733	0.067	0	63.222
Stage 3	-4.8	26.133	35.529	V-C	0.2496.738		0	29.867	0.067	0	65.396
Stage 3	-5	28	35.608	V-C	0.2496.738		0	32	0.067	0	67.608
Stage 3	-5.2	29.867	35.727	V-C	0.2496.738		0	34.133	0.067	0	69.86
Stage 3	-5.4	31.733	35.887	V-C	0.2496.738		0	36.267	0.067	0	72.154
Stage 3	-5.6	33.6	36.088	V-C	0.2496.738		0	38.4	0.067	0	74.488
Stage 3	-5.8	35.467	36.332	V-C	0.2496.738		0	40.533	0.067	0	76.865
Stage 3	-6	37.333	36.616	V-C	0.2496.738		0	42.667	0.067	0	79.283
Stage 3	-6.2	39.2	36.943	V-C	0.2496.738		0	44.8	0.067	0	81.743
Stage 3	-6.4	41.067	37.312	V-C	0.2496.738		0	46.933	0.067	0	84.245
Stage 3	-6.6	42.933	37.722	V-C	0.2496.738		0	49.067	0.067	0	86.788
Stage 3	-6.8	44.8	38.173	V-C	0.2496.738		0	51.2	0.067	0	89.373
Stage 3	-7	46.667	38.664	V-C	0.2496.738		0	53.333	0.067	0	91.997
Stage 3	-7.2	48.533	39.194	V-C	0.2496.738		0	55.467	0.067	0	94.661
Stage 3	-7.4	50.4	39.764	V-C	0.2496.738		0	57.6	0.067	0	97.364
Stage 3	-7.6	52.267	40.37	V-C	0.2496.738		0	59.733	0.067	0	100.104
Stage 3	-7.8	54.133	41.013	V-C	0.2496.738		0	61.867	0.067	0	102.88
Stage 3	-8	56	41.691	V-C	0.2496.738		0	64	0.067	0	105.691
Stage 3	-8.2	57.867	42.401	V-C	0.2496.738		0	66.133	0.067	0	108.535
Stage 3	-8.4	59.733	43.144	V-C	0.2496.738		0	68.267	0.067	0	111.41
Stage 3	-8.6	61.6	43.916	V-C	0.2496.738		0	70.4	0.067	0	114.316
Stage 3	-8.8	63.467	44.561	UL-RL	0.2496.738		0	72.533	0.067	0	117.094
Stage 3	-9	65.333	45.084	UL-RL	0.2496.738		0	74.667	0.067	0	119.75
Stage 3	-9.2	67.2	45.678	UL-RL	0.2496.738		0	76.8	0.067	0	122.478
Stage 3	-9.4	69.067	46.338	UL-RL	0.2496.738		0	78.933	0.067	0	125.272
Stage 3	-9.6	70.933	47.059	UL-RL	0.2496.738		0	81.067	0.067	0	128.126
Stage 3	-9.8	72.8	47.836	UL-RL	0.2496.738		0	83.2	0.067	0	131.036
Stage 3	-10	74.667	48.663	UL-RL	0.2496.738		0	85.333	0.067	0	133.996
Stage 3	-10.2	76.533	49.537	UL-RL	0.2496.738		0	87.467	0.067	0	137.003
Stage 3	-10.4	78.4	50.452	UL-RL	0.2496.738		0	89.6	0.067	0	140.052
Stage 3	-10.6	80.267	51.405	UL-RL	0.2496.738		0	91.733	0.067	0	143.138
Stage 3	-10.8	82.133	52.391	UL-RL	0.2496.738		0	93.867	0.067	0	146.258
Stage 3	-11	84	53.407	UL-RL	0.2496.738		0	96	0.067	0	149.407
Stage 3	-11.2	85.867	54.45	UL-RL	0.2496.738		0	98.133	0.067	0	152.583
Stage 3	-11.4	87.733	55.516	UL-RL	0.2496.738		0	100.267	0.067	0	155.782
Stage 3	-11.6	89.6	56.601	UL-RL	0.2496.738		0	102.4	0.067	0	159.001
Stage 3	-11.8	91.467	57.704	UL-RL	0.2496.738		0	104.533	0.067	0	162.237
Stage 3	-12	93.333	58.82	UL-RL	0.2496.738		0	106.667	0.067	0	165.487
Stage 3	-12.2	95	58.464	UL-RL	0.39 3.404	5	5	108.8	0.067	0	167.264
Stage 3	-12.4	96.667	59.454	UL-RL	0.39 3.404	5	5	110.933	0.067	0	170.387
Stage 3	-12.6	98.333	60.448	UL-RL	0.39 3.404	5	5	113.067	0.067	0	173.515
Stage 3	-12.8	100	61.445	UL-RL	0.39 3.404	5	5	115.2	0.067	0	176.645
Stage 3	-13	101.667	62.442	UL-RL	0.39 3.404	5	5	117.333	0.067	0	179.776
Stage 3	-13.2	103.333	63.44	UL-RL	0.39 3.404	5	5	119.467	0.067	0	182.907
Stage 3	-13.4	105	64.438	UL-RL	0.39 3.404	5	5	121.6	0.067	0	186.038
Stage 3	-13.6	106.667	65.434	UL-RL	0.39 3.404	5	5	123.733	0.067	0	189.167

Design Assumption: Nominal Risultati Terreno											
Stage	Z (m)	Muro:		LEFT	Lato		RIGHT	Pore (kPa)	Gradiente U* (kPa)	Peq (kPa)	
		Sigma V (kPa)	Sigma H (kPa)	Stato	Ka	Kp	Coesione (kPa)				
Stage 3	-13.8	108.333	66.428	UL-RL	0.39	3.404	5	125.867	0.067	0	192.295
Stage 3	-14	110	67.421	UL-RL	0.39	3.404	5	128	0.067	0	195.421
Stage 3	-14.2	111.667	68.412	UL-RL	0.39	3.404	5	130.133	0.067	0	198.546
Stage 3	-14.4	113.333	69.402	UL-RL	0.39	3.404	5	132.267	0.067	0	201.668
Stage 3	-14.6	115	70.389	UL-RL	0.39	3.404	5	134.4	0.067	0	204.789
Stage 3	-14.8	116.667	71.376	UL-RL	0.39	3.404	5	136.533	0.067	0	207.909
Stage 3	-15	118.333	72.361	UL-RL	0.39	3.404	5	138.667	0.067	0	211.027
Stage 3	-15.2	120	73.345	UL-RL	0.39	3.404	5	140.8	0.067	0	214.145
Stage 3	-15.4	121.667	74.329	UL-RL	0.39	3.404	5	142.933	0.067	0	217.262
Stage 3	-15.6	123.333	75.313	UL-RL	0.39	3.404	5	145.067	0.067	0	220.379
Stage 3	-15.8	125	76.296	UL-RL	0.39	3.404	5	147.2	0.067	0	223.496
Stage 3	-16	126.667	77.28	UL-RL	0.39	3.404	5	149.333	0.067	0	226.614

## Tabella Risultati Terreno Left Wall - Nominal - Stage 4

Design Assumption: Nominal Risultati Terreno				Muro:	LEFT	Lato	LEFT			
Stage	Z (m)	Sigma V (kPa)	Sigma H (kPa)	Stato	Ka	Kp	Coesione (kPa)	Pore (kPa)	Gradiente U* (kPa)	Peq (kPa)
Stage 4	0	0	0	ACTIVE	0.2496.738	0	0	0	0	0
Stage 4	-0.2	2.215	0.552	ACTIVE	0.2496.738	0	1.793	0.103	0	2.345
Stage 4	-0.4	4.471	1.113	ACTIVE	0.2496.738	0	3.586	0.103	0	4.699
Stage 4	-0.6	6.779	1.688	ACTIVE	0.2496.738	0	5.379	0.103	0	7.067
Stage 4	-0.8	9.125	2.272	ACTIVE	0.2496.738	0	7.172	0.103	0	9.444
Stage 4	-1	11.488	2.861	ACTIVE	0.2496.738	0	8.966	0.103	0	11.826
Stage 4	-1.2	13.852	3.449	ACTIVE	0.2496.738	0	10.759	0.103	0	14.208
Stage 4	-1.4	16.323	4.064	ACTIVE	0.2496.738	0	12.552	0.103	0	16.616
Stage 4	-1.6	18.831	4.689	ACTIVE	0.2496.738	0	14.345	0.103	0	19.034
Stage 4	-1.8	21.126	5.26	ACTIVE	0.2496.738	0	16.138	0.103	0	21.398
Stage 4	-2	23.554	5.865	ACTIVE	0.2496.738	0	17.931	0.103	0	23.796
Stage 4	-2.2	25.946	6.461	ACTIVE	0.2496.738	0	19.724	0.103	0	26.185
Stage 4	-2.4	28.192	7.02	ACTIVE	0.2496.738	0	21.517	0.103	0	28.537
Stage 4	-2.6	30.546	7.606	ACTIVE	0.2496.738	0	23.31	0.103	0	30.916
Stage 4	-2.8	32.881	8.187	ACTIVE	0.2496.738	0	25.103	0.103	0	33.291
Stage 4	-3	35.2	8.765	ACTIVE	0.2496.738	0	26.897	0.103	0	35.661
Stage 4	-3.2	37.418	9.317	ACTIVE	0.2496.738	0	28.69	0.103	0	38.007
Stage 4	-3.4	39.719	9.89	ACTIVE	0.2496.738	0	30.483	0.103	0	40.373
Stage 4	-3.6	42.011	10.461	ACTIVE	0.2496.738	0	32.276	0.103	0	42.737
Stage 4	-3.8	44.219	11.011	ACTIVE	0.2496.738	0	34.069	0.103	0	45.08
Stage 4	-4	46.5	11.579	ACTIVE	0.2496.738	0	35.862	0.103	0	47.441
Stage 4	-4.2	48.774	12.145	ACTIVE	0.2496.738	0	37.655	0.103	0	49.8
Stage 4	-4.4	50.977	12.693	ACTIVE	0.2496.738	0	39.448	0.103	0	52.142
Stage 4	-4.6	53.243	13.258	ACTIVE	0.2496.738	0	41.241	0.103	0	54.499
Stage 4	-4.8	55.505	13.821	ACTIVE	0.2496.738	0	43.034	0.103	0	56.855
Stage 4	-5	57.763	14.383	ACTIVE	0.2496.738	0	44.828	0.103	0	59.21
Stage 4	-5.2	59.961	14.93	ACTIVE	0.2496.738	0	46.621	0.103	0	61.551
Stage 4	-5.4	62.214	15.491	ACTIVE	0.2496.738	0	48.414	0.103	0	63.905
Stage 4	-5.6	64.463	16.051	ACTIVE	0.2496.738	0	50.207	0.103	0	66.258
Stage 4	-5.8	66.66	16.598	ACTIVE	0.2496.738	0	52	0.103	0	68.598
Stage 4	-6	68.906	17.158	ACTIVE	0.2496.738	0	53.793	0.103	0	70.951
Stage 4	-6.2	71.15	17.716	ACTIVE	0.2496.738	0	55.586	0.103	0	73.302
Stage 4	-6.4	73.346	18.263	ACTIVE	0.2496.738	0	57.379	0.103	0	75.642
Stage 4	-6.6	75.587	18.821	ACTIVE	0.2496.738	0	59.172	0.103	0	77.993
Stage 4	-6.8	77.826	19.379	ACTIVE	0.2496.738	0	60.966	0.103	0	80.344
Stage 4	-7	80.063	19.936	ACTIVE	0.2496.738	0	62.759	0.103	0	82.694
Stage 4	-7.2	82.258	20.482	ACTIVE	0.2496.738	0	64.552	0.103	0	85.034
Stage 4	-7.4	84.493	21.039	ACTIVE	0.2496.738	0	66.345	0.103	0	87.384
Stage 4	-7.6	86.727	21.595	ACTIVE	0.2496.738	0	68.138	0.103	0	89.733
Stage 4	-7.8	88.922	22.142	ACTIVE	0.2496.738	0	69.931	0.103	0	92.073
Stage 4	-8	91.154	22.697	ACTIVE	0.2496.738	0	71.724	0.103	0	94.421
Stage 4	-8.2	93.385	23.253	ACTIVE	0.2496.738	0	73.517	0.103	0	96.77
Stage 4	-8.4	95.58	23.799	ACTIVE	0.2496.738	0	75.31	0.103	0	99.11
Stage 4	-8.6	97.81	24.355	ACTIVE	0.2496.738	0	77.103	0.103	0	101.458
Stage 4	-8.8	100.038	24.91	ACTIVE	0.2496.738	0	78.897	0.103	0	103.806
Stage 4	-9	102.266	25.464	ACTIVE	0.2496.738	0	80.69	0.103	0	106.154
Stage 4	-9.2	104.461	26.011	ACTIVE	0.2496.738	0	82.483	0.103	0	108.494
Stage 4	-9.4	106.688	26.565	ACTIVE	0.2496.738	0	84.276	0.103	0	110.841
Stage 4	-9.6	108.914	27.119	ACTIVE	0.2496.738	0	86.069	0.103	0	113.188
Stage 4	-9.8	111.109	27.666	ACTIVE	0.2496.738	0	87.862	0.103	0	115.528
Stage 4	-10	113.334	28.287	UL-RL	0.2496.738	0	89.655	0.103	0	117.942
Stage 4	-10.2	115.558	31.847	UL-RL	0.2496.738	0	91.448	0.103	0	123.295
Stage 4	-10.4	117.754	35.103	UL-RL	0.2496.738	0	93.241	0.103	0	128.345
Stage 4	-10.6	119.977	38.075	UL-RL	0.2496.738	0	95.034	0.103	0	133.11
Stage 4	-10.8	122.2	40.781	UL-RL	0.2496.738	0	96.828	0.103	0	137.608
Stage 4	-11	124.422	43.239	UL-RL	0.2496.738	0	98.621	0.103	0	141.86
Stage 4	-11.2	126.618	45.469	UL-RL	0.2496.738	0	100.414	0.103	0	145.882
Stage 4	-11.4	128.84	47.489	UL-RL	0.2496.738	0	102.207	0.103	0	149.696
Stage 4	-11.6	131.061	49.318	UL-RL	0.2496.738	0	104	0.103	0	153.318
Stage 4	-11.8	133.257	50.974	UL-RL	0.2496.738	0	105.793	0.103	0	156.767
Stage 4	-12	135.478	52.476	UL-RL	0.2496.738	0	107.586	0.103	0	160.062
Stage 4	-12.2	137.499	61.017	UL-RL	0.39 3.404	5	109.379	0.103	0	170.396
Stage 4	-12.4	139.518	62.082	UL-RL	0.39 3.404	5	111.172	0.103	0	173.254
Stage 4	-12.6	141.515	63.097	UL-RL	0.39 3.404	5	112.965	0.103	0	176.063
Stage 4	-12.8	143.511	64.07	UL-RL	0.39 3.404	5	114.758	0.103	0	178.829
Stage 4	-13	145.486	65.008	UL-RL	0.39 3.404	5	116.552	0.103	0	181.56

Design Assumption: Nominal Risultati Terreno											
Stage	Z (m)	Sigma V (kPa)	Muro: Sigma H (kPa)	LEFT		Lato		LEFT			
				Stato	Ka	Kp	Coesione (kPa)	Pore (kPa)	Gradiente U* (kPa)	Peq (kPa)	
Stage 4	-13.2	147.46	65.915	UL-RL	0.39	3.404	5	118.345	0.103	0	184.26
Stage 4	-13.4	149.436	66.797	UL-RL	0.39	3.404	5	120.138	0.103	0	186.935
Stage 4	-13.6	151.412	67.659	UL-RL	0.39	3.404	5	121.931	0.103	0	189.59
Stage 4	-13.8	153.389	68.504	UL-RL	0.39	3.404	5	123.724	0.103	0	192.228
Stage 4	-14	155.366	69.336	UL-RL	0.39	3.404	5	125.517	0.103	0	194.853
Stage 4	-14.2	157.345	70.158	UL-RL	0.39	3.404	5	127.31	0.103	0	197.468
Stage 4	-14.4	159.323	70.972	UL-RL	0.39	3.404	5	129.103	0.103	0	200.075
Stage 4	-14.6	161.302	71.78	UL-RL	0.39	3.404	5	130.896	0.103	0	202.676
Stage 4	-14.8	163.282	72.584	UL-RL	0.39	3.404	5	132.69	0.103	0	205.274
Stage 4	-15	165.263	73.386	UL-RL	0.39	3.404	5	134.483	0.103	0	207.868
Stage 4	-15.2	167.244	74.185	UL-RL	0.39	3.404	5	136.276	0.103	0	210.461
Stage 4	-15.4	169.225	74.984	UL-RL	0.39	3.404	5	138.069	0.103	0	213.053
Stage 4	-15.6	171.207	75.783	UL-RL	0.39	3.404	5	139.862	0.103	0	215.645
Stage 4	-15.8	173.189	76.582	UL-RL	0.39	3.404	5	141.655	0.103	0	218.237
Stage 4	-16	175.172	77.381	UL-RL	0.39	3.404	5	143.448	0.103	0	220.829

Design Assumption: Nominal Risultati Terreno			Muro:	LEFT	Lato	RIGHT					
Stage	Z (m)	Sigma V (kPa)	Sigma H (kPa)	Stato	Ka	Kp	Coesione (kPa)	Pore (kPa)	Gradiente U* (kPa)	Peq (kPa)	
Stage 4	0	0	0	REMOVED	0	0	0	0	0	0	
Stage 4	-0.2	0	0	REMOVED	0	0	0	0	0	0	
Stage 4	-0.4	0	0	REMOVED	0	0	0	0	0	0	
Stage 4	-0.6	0	0	REMOVED	0	0	0	0	0	0	
Stage 4	-0.8	0	0	REMOVED	0	0	0	0	0	0	
Stage 4	-1	0	0	REMOVED	0	0	0	0	0	0	
Stage 4	-1.2	0	0	REMOVED	0	0	0	0	0	0	
Stage 4	-1.4	0	0	REMOVED	0	0	0	0	0	0	
Stage 4	-1.6	0	0	REMOVED	0	0	0	0	0	0	
Stage 4	-1.8	0	0	REMOVED	0	0	0	0	0	0	
Stage 4	-2	0	0	REMOVED	0	0	0	0	0	0	
Stage 4	-2.2	0	0	REMOVED	0	0	0	0	0	0	
Stage 4	-2.4	0	0	REMOVED	0	0	0	0	0	0	
Stage 4	-2.6	0	0	REMOVED	0	0	0	0	0	0	
Stage 4	-2.8	0	0	REMOVED	0	0	0	0	0	0	
Stage 4	-3	0	0	PASSIVE	0.2496.738		0	0	0	0	
Stage 4	-3.2	1.793	12.082	PASSIVE	0.2496.738		0	2.207	0.103	0	14.289
Stage 4	-3.4	3.586	24.164	PASSIVE	0.2496.738		0	4.414	0.103	0	28.578
Stage 4	-3.6	5.379	36.246	PASSIVE	0.2496.738		0	6.621	0.103	0	42.867
Stage 4	-3.8	7.172	48.328	PASSIVE	0.2496.738		0	8.828	0.103	0	57.155
Stage 4	-4	8.966	60.41	PASSIVE	0.2496.738		0	11.034	0.103	0	71.444
Stage 4	-4.2	10.759	65.98	V-C	0.2496.738		0	13.241	0.103	0	79.221
Stage 4	-4.4	12.552	64.476	V-C	0.2496.738		0	15.448	0.103	0	79.924
Stage 4	-4.6	14.345	63.026	V-C	0.2496.738		0	17.655	0.103	0	80.681
Stage 4	-4.8	16.138	61.635	V-C	0.2496.738		0	19.862	0.103	0	81.497
Stage 4	-5	17.931	60.309	V-C	0.2496.738		0	22.069	0.103	0	82.378
Stage 4	-5.2	19.724	59.051	V-C	0.2496.738		0	24.276	0.103	0	83.327
Stage 4	-5.4	21.517	57.864	V-C	0.2496.738		0	26.483	0.103	0	84.347
Stage 4	-5.6	23.31	56.752	V-C	0.2496.738		0	28.69	0.103	0	85.441
Stage 4	-5.8	25.103	55.715	V-C	0.2496.738		0	30.897	0.103	0	86.611
Stage 4	-6	26.897	54.756	V-C	0.2496.738		0	33.103	0.103	0	87.859
Stage 4	-6.2	28.69	53.875	V-C	0.2496.738		0	35.31	0.103	0	89.186
Stage 4	-6.4	30.483	53.075	V-C	0.2496.738		0	37.517	0.103	0	90.592
Stage 4	-6.6	32.276	52.355	V-C	0.2496.738		0	39.724	0.103	0	92.079
Stage 4	-6.8	34.069	51.715	V-C	0.2496.738		0	41.931	0.103	0	93.646
Stage 4	-7	35.862	51.156	V-C	0.2496.738		0	44.138	0.103	0	95.294
Stage 4	-7.2	37.655	50.678	V-C	0.2496.738		0	46.345	0.103	0	97.023
Stage 4	-7.4	39.448	50.28	V-C	0.2496.738		0	48.552	0.103	0	98.831
Stage 4	-7.6	41.241	49.96	V-C	0.2496.738		0	50.759	0.103	0	100.719
Stage 4	-7.8	43.034	49.719	V-C	0.2496.738		0	52.965	0.103	0	102.685
Stage 4	-8	44.828	49.555	V-C	0.2496.738		0	55.172	0.103	0	104.728
Stage 4	-8.2	46.621	49.467	V-C	0.2496.738		0	57.379	0.103	0	106.846
Stage 4	-8.4	48.414	49.453	V-C	0.2496.738		0	59.586	0.103	0	109.039
Stage 4	-8.6	50.207	49.511	V-C	0.2496.738		0	61.793	0.103	0	111.304
Stage 4	-8.8	52	49.64	V-C	0.2496.738		0	64	0.103	0	113.64
Stage 4	-9	53.793	49.837	V-C	0.2496.738		0	66.207	0.103	0	116.044
Stage 4	-9.2	55.586	50.101	V-C	0.2496.738		0	68.414	0.103	0	118.514
Stage 4	-9.4	57.379	50.428	V-C	0.2496.738		0	70.621	0.103	0	121.049
Stage 4	-9.6	59.172	50.817	V-C	0.2496.738		0	72.828	0.103	0	123.645
Stage 4	-9.8	60.965	51.266	V-C	0.2496.738		0	75.034	0.103	0	126.3
Stage 4	-10	62.759	51.77	V-C	0.2496.738		0	77.241	0.103	0	129.012
Stage 4	-10.2	64.552	52.329	V-C	0.2496.738		0	79.448	0.103	0	131.777
Stage 4	-10.4	66.345	52.938	V-C	0.2496.738		0	81.655	0.103	0	134.593
Stage 4	-10.6	68.138	53.556	UL-RL	0.2496.738		0	83.862	0.103	0	137.418
Stage 4	-10.8	69.931	53.694	UL-RL	0.2496.738		0	86.069	0.103	0	139.763
Stage 4	-11	71.724	53.955	UL-RL	0.2496.738		0	88.276	0.103	0	142.23
Stage 4	-11.2	73.517	54.329	UL-RL	0.2496.738		0	90.483	0.103	0	144.812
Stage 4	-11.4	75.31	54.808	UL-RL	0.2496.738		0	92.69	0.103	0	147.498
Stage 4	-11.6	77.103	55.383	UL-RL	0.2496.738		0	94.896	0.103	0	150.279
Stage 4	-11.8	78.896	56.043	UL-RL	0.2496.738		0	97.103	0.103	0	153.146
Stage 4	-12	80.69	56.781	UL-RL	0.2496.738		0	99.31	0.103	0	156.091
Stage 4	-12.2	82.283	55.763	UL-RL	0.39 3.404		5	101.517	0.103	0	157.28
Stage 4	-12.4	83.876	56.546	UL-RL	0.39 3.404		5	103.724	0.103	0	160.27
Stage 4	-12.6	85.469	57.368	UL-RL	0.39 3.404		5	105.931	0.103	0	163.298
Stage 4	-12.8	87.062	58.223	UL-RL	0.39 3.404		5	108.138	0.103	0	166.36
Stage 4	-13	88.655	59.106	UL-RL	0.39 3.404		5	110.345	0.103	0	169.451
Stage 4	-13.2	90.248	60.013	UL-RL	0.39 3.404		5	112.552	0.103	0	172.565
Stage 4	-13.4	91.841	60.941	UL-RL	0.39 3.404		5	114.758	0.103	0	175.699
Stage 4	-13.6	93.434	61.885	UL-RL	0.39 3.404		5	116.965	0.103	0	178.85



Design Assumption: Nominal Risultati Terreno											
Stage	Z (m)	Muro:		LEFT	Lato		RIGHT	Pore (kPa)	Gradiente U* (kPa)	Peq (kPa)	
		Sigma V (kPa)	Sigma H (kPa)	Stato	Ka	Kp	Coesione (kPa)				
Stage 4	-13.8	95.028	62.842	UL-RL	0.39	3.404	5	119.172	0.103	0	182.014
Stage 4	-14	96.621	63.81	UL-RL	0.39	3.404	5	121.379	0.103	0	185.19
Stage 4	-14.2	98.214	64.787	UL-RL	0.39	3.404	5	123.586	0.103	0	188.373
Stage 4	-14.4	99.807	65.77	UL-RL	0.39	3.404	5	125.793	0.103	0	191.563
Stage 4	-14.6	101.4	66.757	UL-RL	0.39	3.404	5	128	0.103	0	194.757
Stage 4	-14.8	102.993	67.748	UL-RL	0.39	3.404	5	130.207	0.103	0	197.955
Stage 4	-15	104.586	68.742	UL-RL	0.39	3.404	5	132.414	0.103	0	201.156
Stage 4	-15.2	106.179	69.737	UL-RL	0.39	3.404	5	134.621	0.103	0	204.358
Stage 4	-15.4	107.772	70.734	UL-RL	0.39	3.404	5	136.828	0.103	0	207.561
Stage 4	-15.6	109.365	71.73	UL-RL	0.39	3.404	5	139.034	0.103	0	210.765
Stage 4	-15.8	110.958	72.728	UL-RL	0.39	3.404	5	141.241	0.103	0	213.969
Stage 4	-16	112.552	73.725	UL-RL	0.39	3.404	5	143.448	0.103	0	217.173

## Tabella Risultati Terreno Left Wall - Nominal - Stage 5

Design Assumption: Nominal Risultati Terreno				Muro:	LEFT	Lato	LEFT			
Stage	Z (m)	Sigma V (kPa)	Sigma H (kPa)	Stato	Ka	Kp	Coesione (kPa)	Pore (kPa)	Gradiente U* (kPa)	Peq (kPa)
Stage 5	0	0	0	ACTIVE	0.2496.738	0	0	0	0	0
Stage 5	-0.2	2.294	0.571	ACTIVE	0.2496.738	0	1.714	0.143	0	2.285
Stage 5	-0.4	4.628	1.152	ACTIVE	0.2496.738	0	3.429	0.143	0	4.581
Stage 5	-0.6	7.015	1.747	ACTIVE	0.2496.738	0	5.143	0.143	0	6.89
Stage 5	-0.8	9.44	2.351	ACTIVE	0.2496.738	0	6.857	0.143	0	9.208
Stage 5	-1	11.882	2.959	ACTIVE	0.2496.738	0	8.571	0.143	0	11.53
Stage 5	-1.2	14.325	3.567	ACTIVE	0.2496.738	0	10.286	0.143	0	13.853
Stage 5	-1.4	16.874	4.202	ACTIVE	0.2496.738	0	12	0.143	0	16.202
Stage 5	-1.6	19.462	4.846	ACTIVE	0.2496.738	0	13.714	0.143	0	18.56
Stage 5	-1.8	21.836	5.437	ACTIVE	0.2496.738	0	15.429	0.143	0	20.866
Stage 5	-2	24.342	6.061	ACTIVE	0.2496.738	0	17.143	0.143	0	23.204
Stage 5	-2.2	26.813	6.676	ACTIVE	0.2496.738	0	18.857	0.143	0	25.534
Stage 5	-2.4	29.138	7.255	ACTIVE	0.2496.738	0	20.571	0.143	0	27.827
Stage 5	-2.6	31.571	7.861	ACTIVE	0.2496.738	0	22.286	0.143	0	30.147
Stage 5	-2.8	33.984	8.462	ACTIVE	0.2496.738	0	24	0.143	0	32.462
Stage 5	-3	36.383	9.059	ACTIVE	0.2496.738	0	25.714	0.143	0	34.774
Stage 5	-3.2	38.679	9.631	ACTIVE	0.2496.738	0	27.429	0.143	0	37.06
Stage 5	-3.4	41.059	10.224	ACTIVE	0.2496.738	0	29.143	0.143	0	39.367
Stage 5	-3.6	43.43	10.814	ACTIVE	0.2496.738	0	30.857	0.143	0	41.671
Stage 5	-3.8	45.717	11.384	ACTIVE	0.2496.738	0	32.571	0.143	0	43.955
Stage 5	-4	48.076	11.971	ACTIVE	0.2496.738	0	34.286	0.143	0	46.257
Stage 5	-4.2	50.429	12.557	ACTIVE	0.2496.738	0	36	0.143	0	48.557
Stage 5	-4.4	52.711	13.125	ACTIVE	0.2496.738	0	37.714	0.143	0	50.839
Stage 5	-4.6	55.056	13.709	ACTIVE	0.2496.738	0	39.429	0.143	0	53.138
Stage 5	-4.8	57.397	14.292	ACTIVE	0.2496.738	0	41.143	0.143	0	55.435
Stage 5	-5	59.733	14.874	ACTIVE	0.2496.738	0	42.857	0.143	0	57.731
Stage 5	-5.2	62.01	15.441	ACTIVE	0.2496.738	0	44.571	0.143	0	60.012
Stage 5	-5.4	64.342	16.021	ACTIVE	0.2496.738	0	46.286	0.143	0	62.307
Stage 5	-5.6	66.67	16.601	ACTIVE	0.2496.738	0	48	0.143	0	64.601
Stage 5	-5.8	68.946	17.168	ACTIVE	0.2496.738	0	49.714	0.143	0	66.882
Stage 5	-6	71.271	17.746	ACTIVE	0.2496.738	0	51.429	0.143	0	69.175
Stage 5	-6.2	73.593	18.325	ACTIVE	0.2496.738	0	53.143	0.143	0	71.468
Stage 5	-6.4	75.868	18.891	ACTIVE	0.2496.738	0	54.857	0.143	0	73.748
Stage 5	-6.6	78.188	19.469	ACTIVE	0.2496.738	0	56.571	0.143	0	76.04
Stage 5	-6.8	80.505	20.046	ACTIVE	0.2496.738	0	58.286	0.143	0	78.332
Stage 5	-7	82.821	20.623	ACTIVE	0.2496.738	0	60	0.143	0	80.622
Stage 5	-7.2	85.095	21.189	ACTIVE	0.2496.738	0	61.714	0.143	0	82.903
Stage 5	-7.4	87.409	21.765	ACTIVE	0.2496.738	0	63.429	0.143	0	85.193
Stage 5	-7.6	89.722	22.341	ACTIVE	0.2496.738	0	65.143	0.143	0	87.484
Stage 5	-7.8	91.996	22.907	ACTIVE	0.2496.738	0	66.857	0.143	0	89.764
Stage 5	-8	94.307	23.482	ACTIVE	0.2496.738	0	68.571	0.143	0	92.054
Stage 5	-8.2	96.616	24.057	ACTIVE	0.2496.738	0	70.286	0.143	0	94.343
Stage 5	-8.4	98.89	24.624	ACTIVE	0.2496.738	0	72	0.143	0	96.624
Stage 5	-8.6	101.199	25.198	ACTIVE	0.2496.738	0	73.714	0.143	0	98.913
Stage 5	-8.8	103.506	25.773	ACTIVE	0.2496.738	0	75.429	0.143	0	101.202
Stage 5	-9	105.813	26.347	ACTIVE	0.2496.738	0	77.143	0.143	0	103.49
Stage 5	-9.2	108.087	26.916	UL-RL	0.2496.738	0	78.857	0.143	0	105.773
Stage 5	-9.4	110.392	27.493	UL-RL	0.2496.738	0	80.571	0.143	0	108.065
Stage 5	-9.6	112.697	28.071	UL-RL	0.2496.738	0	82.286	0.143	0	110.356
Stage 5	-9.8	114.971	28.64	UL-RL	0.2496.738	0	84	0.143	0	112.64
Stage 5	-10	117.275	29.217	UL-RL	0.2496.738	0	85.714	0.143	0	114.932
Stage 5	-10.2	119.578	29.794	UL-RL	0.2496.738	0	87.429	0.143	0	117.223
Stage 5	-10.4	121.852	30.364	UL-RL	0.2496.738	0	89.143	0.143	0	119.507
Stage 5	-10.6	124.154	30.941	UL-RL	0.2496.738	0	90.857	0.143	0	121.798
Stage 5	-10.8	126.456	31.518	UL-RL	0.2496.738	0	92.571	0.143	0	124.089
Stage 5	-11	128.758	32.095	UL-RL	0.2496.738	0	94.286	0.143	0	126.38
Stage 5	-11.2	131.032	32.665	UL-RL	0.2496.738	0	96	0.143	0	128.665
Stage 5	-11.4	133.333	33.242	UL-RL	0.2496.738	0	97.714	0.143	0	130.956
Stage 5	-11.6	135.633	33.819	UL-RL	0.2496.738	0	99.428	0.143	0	133.247
Stage 5	-11.8	137.908	34.389	UL-RL	0.2496.738	0	101.143	0.143	0	135.532
Stage 5	-12	140.207	34.966	UL-RL	0.2496.738	0	102.857	0.143	0	137.823
Stage 5	-12.2	142.306	54.26	UL-RL	0.39 3.404	5	104.571	0.143	0	158.832
Stage 5	-12.4	144.405	57.136	UL-RL	0.39 3.404	5	106.286	0.143	0	163.421
Stage 5	-12.6	146.48	59.874	UL-RL	0.39 3.404	5	108	0.143	0	167.874
Stage 5	-12.8	148.556	62.489	UL-RL	0.39 3.404	5	109.714	0.143	0	172.203
Stage 5	-13	150.609	64.995	UL-RL	0.39 3.404	5	111.428	0.143	0	176.423

Design Assumption: Nominal Risultati Terreno													
Stage	Z (m)	Sigma V (kPa)	Sigma H (kPa)	Muro: LEFT	Stato	Ka	Lato	Kp	LEFT	Coesione (kPa)	Pore (kPa)	Gradiente U* (kPa)	Peq (kPa)
Stage 5	-13.2	152.662	67.405	UL-RL	0.39	3.404	5	113.143	0.143	0	180.548		
Stage 5	-13.4	154.717	69.171	UL-RL	0.39	3.404	5	114.857	0.143	0	184.028		
Stage 5	-13.6	156.772	70.712	UL-RL	0.39	3.404	5	116.571	0.143	0	187.283		
Stage 5	-13.8	158.827	72.045	UL-RL	0.39	3.404	5	118.286	0.143	0	190.331		
Stage 5	-14	160.884	73.353	UL-RL	0.39	3.404	5	120	0.143	0	193.353		
Stage 5	-14.2	162.941	74.639	UL-RL	0.39	3.404	5	121.714	0.143	0	196.354		
Stage 5	-14.4	164.998	75.909	UL-RL	0.39	3.404	5	123.428	0.143	0	199.338		
Stage 5	-14.6	167.056	77.166	UL-RL	0.39	3.404	5	125.143	0.143	0	202.309		
Stage 5	-14.8	169.115	78.414	UL-RL	0.39	3.404	5	126.857	0.143	0	205.271		
Stage 5	-15	171.174	79.654	UL-RL	0.39	3.404	5	128.571	0.143	0	208.226		
Stage 5	-15.2	173.234	80.89	UL-RL	0.39	3.404	5	130.286	0.143	0	211.176		
Stage 5	-15.4	175.294	82.179	UL-RL	0.39	3.404	5	132	0.143	0	214.179		
Stage 5	-15.6	177.354	83.468	UL-RL	0.39	3.404	5	133.714	0.143	0	217.182		
Stage 5	-15.8	179.416	84.756	UL-RL	0.39	3.404	5	135.428	0.143	0	220.185		
Stage 5	-16	181.477	86.045	UL-RL	0.39	3.404	5	137.143	0.143	0	223.188		

Design Assumption: Nominal Risultati Terreno			Muro:	LEFT	Lato	RIGHT					
Stage	Z (m)	Sigma V (kPa)	Sigma H (kPa)	Stato	Ka	Kp	Coesione (kPa)	Pore (kPa)	Gradiente U* (kPa)	Peq (kPa)	
Stage 5	0	0	0	REMOVED	0	0	0	0	0	0	0
Stage 5	-0.2	0	0	REMOVED	0	0	0	0	0	0	0
Stage 5	-0.4	0	0	REMOVED	0	0	0	0	0	0	0
Stage 5	-0.6	0	0	REMOVED	0	0	0	0	0	0	0
Stage 5	-0.8	0	0	REMOVED	0	0	0	0	0	0	0
Stage 5	-1	0	0	REMOVED	0	0	0	0	0	0	0
Stage 5	-1.2	0	0	REMOVED	0	0	0	0	0	0	0
Stage 5	-1.4	0	0	REMOVED	0	0	0	0	0	0	0
Stage 5	-1.6	0	0	REMOVED	0	0	0	0	0	0	0
Stage 5	-1.8	0	0	REMOVED	0	0	0	0	0	0	0
Stage 5	-2	0	0	REMOVED	0	0	0	0	0	0	0
Stage 5	-2.2	0	0	REMOVED	0	0	0	0	0	0	0
Stage 5	-2.4	0	0	REMOVED	0	0	0	0	0	0	0
Stage 5	-2.6	0	0	REMOVED	0	0	0	0	0	0	0
Stage 5	-2.8	0	0	REMOVED	0	0	0	0	0	0	0
Stage 5	-3	0	0	REMOVED	0	0	0	0	0	0	0
Stage 5	-3.2	0	0	REMOVED	0	0	0	0	0	0	0
Stage 5	-3.4	0	0	REMOVED	0	0	0	0	0	0	0
Stage 5	-3.6	0	0	REMOVED	0	0	0	0	0	0	0
Stage 5	-3.8	0	0	REMOVED	0	0	0	0	0	0	0
Stage 5	-4	0	0	PASSIVE	0.2496.738		0	0	0	0	0
Stage 5	-4.2	1.714	11.551	PASSIVE	0.2496.738		0	2.286	0.143	0	13.837
Stage 5	-4.4	3.429	23.102	PASSIVE	0.2496.738		0	4.571	0.143	0	27.673
Stage 5	-4.6	5.143	34.653	PASSIVE	0.2496.738		0	6.857	0.143	0	41.51
Stage 5	-4.8	6.857	46.203	PASSIVE	0.2496.738		0	9.143	0.143	0	55.346
Stage 5	-5	8.571	57.754	PASSIVE	0.2496.738		0	11.429	0.143	0	69.183
Stage 5	-5.2	10.286	69.305	PASSIVE	0.2496.738		0	13.714	0.143	0	83.019
Stage 5	-5.4	12	80.856	PASSIVE	0.2496.738		0	16	0.143	0	96.856
Stage 5	-5.6	13.714	92.407	PASSIVE	0.2496.738		0	18.286	0.143	0	110.692
Stage 5	-5.8	15.429	101.47	V-C	0.2496.738		0	20.571	0.143	0	122.042
Stage 5	-6	17.143	98.407	V-C	0.2496.738		0	22.857	0.143	0	121.264
Stage 5	-6.2	18.857	95.455	V-C	0.2496.738		0	25.143	0.143	0	120.598
Stage 5	-6.4	20.571	92.621	V-C	0.2496.738		0	27.429	0.143	0	120.05
Stage 5	-6.6	22.286	89.907	V-C	0.2496.738		0	29.714	0.143	0	119.622
Stage 5	-6.8	24	87.318	V-C	0.2496.738		0	32	0.143	0	119.318
Stage 5	-7	25.714	84.854	V-C	0.2496.738		0	34.286	0.143	0	119.14
Stage 5	-7.2	27.429	82.519	V-C	0.2496.738		0	36.571	0.143	0	119.09
Stage 5	-7.4	29.143	80.312	V-C	0.2496.738		0	38.857	0.143	0	119.17
Stage 5	-7.6	30.857	78.235	V-C	0.2496.738		0	41.143	0.143	0	119.378
Stage 5	-7.8	32.571	76.288	V-C	0.2496.738		0	43.429	0.143	0	119.717
Stage 5	-8	34.286	74.47	V-C	0.2496.738		0	45.714	0.143	0	120.184
Stage 5	-8.2	36	72.78	V-C	0.2496.738		0	48	0.143	0	120.78
Stage 5	-8.4	37.714	71.218	V-C	0.2496.738		0	50.286	0.143	0	121.504
Stage 5	-8.6	39.429	69.781	V-C	0.2496.738		0	52.571	0.143	0	122.353
Stage 5	-8.8	41.143	68.468	V-C	0.2496.738		0	54.857	0.143	0	123.325
Stage 5	-9	42.857	67.277	V-C	0.2496.738		0	57.143	0.143	0	124.42
Stage 5	-9.2	44.571	66.204	UL-RL	0.2496.738		0	59.429	0.143	0	125.632
Stage 5	-9.4	46.286	65.247	UL-RL	0.2496.738		0	61.714	0.143	0	126.961
Stage 5	-9.6	48	64.404	UL-RL	0.2496.738		0	64	0.143	0	128.404
Stage 5	-9.8	49.714	63.67	UL-RL	0.2496.738		0	66.286	0.143	0	129.956
Stage 5	-10	51.429	63.044	UL-RL	0.2496.738		0	68.571	0.143	0	131.615
Stage 5	-10.2	53.143	62.521	UL-RL	0.2496.738		0	70.857	0.143	0	133.378
Stage 5	-10.4	54.857	62.097	UL-RL	0.2496.738		0	73.143	0.143	0	135.24
Stage 5	-10.6	56.571	61.769	UL-RL	0.2496.738		0	75.428	0.143	0	137.197
Stage 5	-10.8	58.286	61.532	UL-RL	0.2496.738		0	77.714	0.143	0	139.246
Stage 5	-11	60	61.382	UL-RL	0.2496.738		0	80	0.143	0	141.382
Stage 5	-11.2	61.714	61.315	UL-RL	0.2496.738		0	82.286	0.143	0	143.601
Stage 5	-11.4	63.428	61.326	UL-RL	0.2496.738		0	84.571	0.143	0	145.898
Stage 5	-11.6	65.143	61.411	UL-RL	0.2496.738		0	86.857	0.143	0	148.268
Stage 5	-11.8	66.857	61.564	UL-RL	0.2496.738		0	89.143	0.143	0	150.706
Stage 5	-12	68.571	61.78	UL-RL	0.2496.738		0	91.428	0.143	0	153.208
Stage 5	-12.2	70.086	59.058	UL-RL	0.39 3.404		5	93.714	0.143	0	152.772
Stage 5	-12.4	71.6	58.444	UL-RL	0.39 3.404		5	96	0.143	0	154.444
Stage 5	-12.6	73.114	57.936	UL-RL	0.39 3.404		5	98.286	0.143	0	156.222
Stage 5	-12.8	74.628	57.525	UL-RL	0.39 3.404		5	100.571	0.143	0	158.097
Stage 5	-13	76.143	57.2	UL-RL	0.39 3.404		5	102.857	0.143	0	160.057
Stage 5	-13.2	77.657	56.95	UL-RL	0.39 3.404		5	105.143	0.143	0	162.092
Stage 5	-13.4	79.171	56.765	UL-RL	0.39 3.404		5	107.428	0.143	0	164.194
Stage 5	-13.6	80.686	56.637	UL-RL	0.39 3.404		5	109.714	0.143	0	166.351

Design Assumption: Nominal Risultati Terreno											
Stage	Z (m)	Muro:		LEFT	Lato		RIGHT	Pore (kPa)	Gradiente U* (kPa)	Peq (kPa)	
		Sigma V (kPa)	Sigma H (kPa)	Stato	Ka	Kp	Coesione (kPa)				
Stage 5	-13.8	82.2	56.558	UL-RL	0.39	3.404	5	112	0.143	0	168.558
Stage 5	-14	83.714	56.519	UL-RL	0.39	3.404	5	114.286	0.143	0	170.805
Stage 5	-14.2	85.228	56.514	UL-RL	0.39	3.404	5	116.571	0.143	0	173.086
Stage 5	-14.4	86.743	56.537	UL-RL	0.39	3.404	5	118.857	0.143	0	175.394
Stage 5	-14.6	88.257	56.581	UL-RL	0.39	3.404	5	121.143	0.143	0	177.724
Stage 5	-14.8	89.771	56.641	UL-RL	0.39	3.404	5	123.428	0.143	0	180.07
Stage 5	-15	91.286	56.714	UL-RL	0.39	3.404	5	125.714	0.143	0	182.428
Stage 5	-15.2	92.8	56.796	UL-RL	0.39	3.404	5	128	0.143	0	184.796
Stage 5	-15.4	94.314	56.882	UL-RL	0.39	3.404	5	130.286	0.143	0	187.168
Stage 5	-15.6	95.828	56.972	UL-RL	0.39	3.404	5	132.571	0.143	0	189.544
Stage 5	-15.8	97.343	57.064	UL-RL	0.39	3.404	5	134.857	0.143	0	191.921
Stage 5	-16	98.857	57.156	UL-RL	0.39	3.404	5	137.143	0.143	0	194.299

## Tabella Risultati Terreno Left Wall - Nominal - Stage 6

Design Assumption: Nominal Risultati Terreno				Muro:	LEFT	Lato	LEFT			
Stage	Z (m)	Sigma V (kPa)	Sigma H (kPa)	Stato	Ka	Kp	Coesione (kPa)	Pore (kPa)	Gradiente U* (kPa)	Peq (kPa)
Stage 6	0	0	0	ACTIVE	0.2496.738		0	0	0	0
Stage 6	-0.2	2.335	0.582	ACTIVE	0.2496.738		0	1.673	0.164	0 2.254
Stage 6	-0.4	4.711	1.173	ACTIVE	0.2496.738		0	3.345	0.164	0 4.519
Stage 6	-0.6	7.14	1.778	ACTIVE	0.2496.738		0	5.018	0.164	0 6.796
Stage 6	-0.8	9.606	2.392	ACTIVE	0.2496.738		0	6.691	0.164	0 9.083
Stage 6	-1	12.09	3.01	ACTIVE	0.2496.738		0	8.364	0.164	0 11.374
Stage 6	-1.2	14.574	3.629	ACTIVE	0.2496.738		0	10.036	0.164	0 13.665
Stage 6	-1.4	17.165	4.274	ACTIVE	0.2496.738		0	11.709	0.164	0 15.983
Stage 6	-1.6	19.794	4.929	ACTIVE	0.2496.738		0	13.382	0.164	0 18.311
Stage 6	-1.8	22.21	5.53	ACTIVE	0.2496.738		0	15.055	0.164	0 20.585
Stage 6	-2	24.757	6.165	ACTIVE	0.2496.738		0	16.727	0.164	0 22.892
Stage 6	-2.2	27.27	6.79	ACTIVE	0.2496.738		0	18.4	0.164	0 25.19
Stage 6	-2.4	29.637	7.38	ACTIVE	0.2496.738		0	20.073	0.164	0 27.452
Stage 6	-2.6	32.111	7.996	ACTIVE	0.2496.738		0	21.745	0.164	0 29.741
Stage 6	-2.8	34.566	8.607	ACTIVE	0.2496.738		0	23.418	0.164	0 32.025
Stage 6	-3	37.006	9.215	ACTIVE	0.2496.738		0	25.091	0.164	0 34.305
Stage 6	-3.2	39.344	9.797	ACTIVE	0.2496.738		0	26.764	0.164	0 36.56
Stage 6	-3.4	41.766	10.4	ACTIVE	0.2496.738		0	28.436	0.164	0 38.836
Stage 6	-3.6	44.178	11	ACTIVE	0.2496.738		0	30.109	0.164	0 41.109
Stage 6	-3.8	46.506	11.58	ACTIVE	0.2496.738		0	31.782	0.164	0 43.362
Stage 6	-4	48.908	12.178	ACTIVE	0.2496.738		0	33.455	0.164	0 45.633
Stage 6	-4.2	51.302	12.774	ACTIVE	0.2496.738		0	35.127	0.164	0 47.902
Stage 6	-4.4	53.625	13.353	ACTIVE	0.2496.738		0	36.8	0.164	0 50.153
Stage 6	-4.6	56.012	13.947	ACTIVE	0.2496.738		0	38.473	0.164	0 52.42
Stage 6	-4.8	58.394	14.54	ACTIVE	0.2496.738		0	40.145	0.164	0 54.686
Stage 6	-5	60.772	15.132	ACTIVE	0.2496.738		0	41.818	0.164	0 56.95
Stage 6	-5.2	63.091	15.71	ACTIVE	0.2496.738		0	43.491	0.164	0 59.2
Stage 6	-5.4	65.464	16.3	ACTIVE	0.2496.738		0	45.164	0.164	0 61.464
Stage 6	-5.6	67.834	16.891	ACTIVE	0.2496.738		0	46.836	0.164	0 63.727
Stage 6	-5.8	70.151	17.468	ACTIVE	0.2496.738		0	48.509	0.164	0 65.977
Stage 6	-6	72.517	18.057	ACTIVE	0.2496.738		0	50.182	0.164	0 68.239
Stage 6	-6.2	74.881	18.645	ACTIVE	0.2496.738		0	51.855	0.164	0 70.5
Stage 6	-6.4	77.198	19.222	ACTIVE	0.2496.738		0	53.527	0.164	0 72.75
Stage 6	-6.6	79.559	19.81	ACTIVE	0.2496.738		0	55.2	0.164	0 75.01
Stage 6	-6.8	81.918	20.398	ACTIVE	0.2496.738		0	56.873	0.164	0 77.27
Stage 6	-7	84.276	20.985	ACTIVE	0.2496.738		0	58.545	0.164	0 79.53
Stage 6	-7.2	86.591	21.561	ACTIVE	0.2496.738		0	60.218	0.164	0 81.779
Stage 6	-7.4	88.947	22.148	ACTIVE	0.2496.738		0	61.891	0.164	0 84.039
Stage 6	-7.6	91.301	22.734	ACTIVE	0.2496.738		0	63.564	0.164	0 86.298
Stage 6	-7.8	93.616	23.31	ACTIVE	0.2496.738		0	65.236	0.164	0 88.547
Stage 6	-8	95.969	23.896	ACTIVE	0.2496.738		0	66.909	0.164	0 90.805
Stage 6	-8.2	98.32	24.482	ACTIVE	0.2496.738		0	68.582	0.164	0 93.064
Stage 6	-8.4	100.636	25.058	ACTIVE	0.2496.738		0	70.255	0.164	0 95.313
Stage 6	-8.6	102.986	25.643	ACTIVE	0.2496.738		0	71.927	0.164	0 97.571
Stage 6	-8.8	105.335	26.228	ACTIVE	0.2496.738		0	73.6	0.164	0 99.828
Stage 6	-9	107.683	26.813	ACTIVE	0.2496.738		0	75.273	0.164	0 102.086
Stage 6	-9.2	109.998	27.39	ACTIVE	0.2496.738		0	76.945	0.164	0 104.335
Stage 6	-9.4	112.345	27.974	ACTIVE	0.2496.738		0	78.618	0.164	0 106.592
Stage 6	-9.6	114.692	28.558	ACTIVE	0.2496.738		0	80.291	0.164	0 108.849
Stage 6	-9.8	117.007	29.135	ACTIVE	0.2496.738		0	81.964	0.164	0 111.098
Stage 6	-10	119.353	29.719	ACTIVE	0.2496.738		0	83.636	0.164	0 113.355
Stage 6	-10.2	121.697	30.303	ACTIVE	0.2496.738		0	85.309	0.164	0 115.612
Stage 6	-10.4	124.013	30.879	ACTIVE	0.2496.738		0	86.982	0.164	0 117.861
Stage 6	-10.6	126.357	31.463	ACTIVE	0.2496.738		0	88.654	0.164	0 120.117
Stage 6	-10.8	128.7	32.046	ACTIVE	0.2496.738		0	90.327	0.164	0 122.374
Stage 6	-11	131.043	32.63	ACTIVE	0.2496.738		0	92	0.164	0 124.63
Stage 6	-11.2	133.359	33.206	ACTIVE	0.2496.738		0	93.673	0.164	0 126.879
Stage 6	-11.4	135.702	33.79	ACTIVE	0.2496.738		0	95.345	0.164	0 129.135
Stage 6	-11.6	138.043	34.373	ACTIVE	0.2496.738		0	97.018	0.164	0 131.391
Stage 6	-11.8	140.36	34.95	ACTIVE	0.2496.738		0	98.691	0.164	0 133.64
Stage 6	-12	142.701	35.569	UL-RL	0.2496.738		0	100.364	0.164	0 135.933
Stage 6	-12.2	144.842	50.316	UL-RL	0.39 3.404		5	102.036	0.164	0 152.352
Stage 6	-12.4	146.982	51.205	UL-RL	0.39 3.404		5	103.709	0.164	0 154.914
Stage 6	-12.6	149.098	52.084	UL-RL	0.39 3.404		5	105.382	0.164	0 157.466
Stage 6	-12.8	151.215	56.038	UL-RL	0.39 3.404		5	107.054	0.164	0 163.092
Stage 6	-13	153.31	60.386	UL-RL	0.39 3.404		5	108.727	0.164	0 169.113

Design Assumption: Nominal Risultati Terreno											
Stage	Z (m)	Sigma V (kPa)	Muro: Sigma H (kPa)	LEFT		Lato		LEFT			
				Stato	Ka	Kp	Coesione (kPa)	Pore (kPa)	Gradiente U* (kPa)	Peq (kPa)	
Stage 6	-13.2	155.405	64.59	UL-RL	0.39	3.404	5	110.4	0.164	0	174.99
Stage 6	-13.4	157.501	68.108	UL-RL	0.39	3.404	5	112.073	0.164	0	180.181
Stage 6	-13.6	159.598	71.362	UL-RL	0.39	3.404	5	113.745	0.164	0	185.107
Stage 6	-13.8	161.695	73.764	UL-RL	0.39	3.404	5	115.418	0.164	0	189.182
Stage 6	-14	163.793	75.636	UL-RL	0.39	3.404	5	117.091	0.164	0	192.726
Stage 6	-14.2	165.891	77.478	UL-RL	0.39	3.404	5	118.764	0.164	0	196.241
Stage 6	-14.4	167.99	79.296	UL-RL	0.39	3.404	5	120.436	0.164	0	199.733
Stage 6	-14.6	170.09	81.096	UL-RL	0.39	3.404	5	122.109	0.164	0	203.205
Stage 6	-14.8	172.19	82.882	UL-RL	0.39	3.404	5	123.782	0.164	0	206.664
Stage 6	-15	174.291	84.658	UL-RL	0.39	3.404	5	125.454	0.164	0	210.112
Stage 6	-15.2	176.392	86.426	UL-RL	0.39	3.404	5	127.127	0.164	0	213.554
Stage 6	-15.4	178.494	88.246	UL-RL	0.39	3.404	5	128.8	0.164	0	217.046
Stage 6	-15.6	180.596	90.065	UL-RL	0.39	3.404	5	130.473	0.164	0	220.538
Stage 6	-15.8	182.699	91.884	UL-RL	0.39	3.404	5	132.145	0.164	0	224.029
Stage 6	-16	184.802	93.702	UL-RL	0.39	3.404	5	133.818	0.164	0	227.52

Design Assumption: Nominal Risultati Terreno			Muro:	LEFT	Lato	RIGHT					
Stage	Z (m)	Sigma V (kPa)	Sigma H (kPa)	Stato	Ka	Kp	Coesione (kPa)	Pore (kPa)	Gradiente U* (kPa)	Peq (kPa)	
Stage 6	0	0	0	REMOVED	0	0	0	0	0	0	
Stage 6	-0.2	0	0	REMOVED	0	0	0	0	0	0	
Stage 6	-0.4	0	0	REMOVED	0	0	0	0	0	0	
Stage 6	-0.6	0	0	REMOVED	0	0	0	0	0	0	
Stage 6	-0.8	0	0	REMOVED	0	0	0	0	0	0	
Stage 6	-1	0	0	REMOVED	0	0	0	0	0	0	
Stage 6	-1.2	0	0	REMOVED	0	0	0	0	0	0	
Stage 6	-1.4	0	0	REMOVED	0	0	0	0	0	0	
Stage 6	-1.6	0	0	REMOVED	0	0	0	0	0	0	
Stage 6	-1.8	0	0	REMOVED	0	0	0	0	0	0	
Stage 6	-2	0	0	REMOVED	0	0	0	0	0	0	
Stage 6	-2.2	0	0	REMOVED	0	0	0	0	0	0	
Stage 6	-2.4	0	0	REMOVED	0	0	0	0	0	0	
Stage 6	-2.6	0	0	REMOVED	0	0	0	0	0	0	
Stage 6	-2.8	0	0	REMOVED	0	0	0	0	0	0	
Stage 6	-3	0	0	REMOVED	0	0	0	0	0	0	
Stage 6	-3.2	0	0	REMOVED	0	0	0	0	0	0	
Stage 6	-3.4	0	0	REMOVED	0	0	0	0	0	0	
Stage 6	-3.6	0	0	REMOVED	0	0	0	0	0	0	
Stage 6	-3.8	0	0	REMOVED	0	0	0	0	0	0	
Stage 6	-4	0	0	REMOVED	0	0	0	0	0	0	
Stage 6	-4.2	0	0	REMOVED	0	0	0	0	0	0	
Stage 6	-4.4	0	0	REMOVED	0	0	0	0	0	0	
Stage 6	-4.6	0.836	5.635	PASSIVE	0.2496.738	0	1.164	0.164	0	6.799	
Stage 6	-4.8	2.509	16.906	PASSIVE	0.2496.738	0	3.491	0.164	0	20.397	
Stage 6	-5	4.182	28.177	PASSIVE	0.2496.738	0	5.818	0.164	0	33.995	
Stage 6	-5.2	5.855	39.448	PASSIVE	0.2496.738	0	8.145	0.164	0	47.593	
Stage 6	-5.4	7.527	50.719	PASSIVE	0.2496.738	0	10.473	0.164	0	61.191	
Stage 6	-5.6	9.2	61.99	PASSIVE	0.2496.738	0	12.8	0.164	0	74.79	
Stage 6	-5.8	10.873	73.26	PASSIVE	0.2496.738	0	15.127	0.164	0	88.388	
Stage 6	-6	12.545	84.531	PASSIVE	0.2496.738	0	17.455	0.164	0	101.986	
Stage 6	-6.2	14.218	95.802	PASSIVE	0.2496.738	0	19.782	0.164	0	115.584	
Stage 6	-6.4	15.891	107.073	PASSIVE	0.2496.738	0	22.109	0.164	0	129.182	
Stage 6	-6.6	17.564	118.344	PASSIVE	0.2496.738	0	24.436	0.164	0	142.78	
Stage 6	-6.8	19.236	120.802	V-C	0.2496.738	0	26.764	0.164	0	147.566	
Stage 6	-7	20.909	116.861	V-C	0.2496.738	0	29.091	0.164	0	145.952	
Stage 6	-7.2	22.582	113.071	V-C	0.2496.738	0	31.418	0.164	0	144.489	
Stage 6	-7.4	24.255	109.434	V-C	0.2496.738	0	33.745	0.164	0	143.179	
Stage 6	-7.6	25.927	105.953	V-C	0.2496.738	0	36.073	0.164	0	142.026	
Stage 6	-7.8	27.6	102.63	V-C	0.2496.738	0	38.4	0.164	0	141.03	
Stage 6	-8	29.273	99.466	V-C	0.2496.738	0	40.727	0.164	0	140.193	
Stage 6	-8.2	30.945	96.461	V-C	0.2496.738	0	43.055	0.164	0	139.516	
Stage 6	-8.4	32.618	93.615	V-C	0.2496.738	0	45.382	0.164	0	138.997	
Stage 6	-8.6	34.291	90.927	V-C	0.2496.738	0	47.709	0.164	0	138.636	
Stage 6	-8.8	35.964	88.396	V-C	0.2496.738	0	50.036	0.164	0	138.432	
Stage 6	-9	37.636	86.019	V-C	0.2496.738	0	52.364	0.164	0	138.383	
Stage 6	-9.2	39.309	83.795	V-C	0.2496.738	0	54.691	0.164	0	138.486	
Stage 6	-9.4	40.982	81.72	V-C	0.2496.738	0	57.018	0.164	0	138.738	
Stage 6	-9.6	42.655	79.792	V-C	0.2496.738	0	59.345	0.164	0	139.138	
Stage 6	-9.8	44.327	78.007	V-C	0.2496.738	0	61.673	0.164	0	139.68	
Stage 6	-10	46	76.362	V-C	0.2496.738	0	64	0.164	0	140.362	
Stage 6	-10.2	47.673	74.852	V-C	0.2496.738	0	66.327	0.164	0	141.179	
Stage 6	-10.4	49.345	73.473	V-C	0.2496.738	0	68.654	0.164	0	142.127	
Stage 6	-10.6	51.018	72.22	V-C	0.2496.738	0	70.982	0.164	0	143.202	
Stage 6	-10.8	52.691	71.089	V-C	0.2496.738	0	73.309	0.164	0	144.398	
Stage 6	-11	54.364	70.074	V-C	0.2496.738	0	75.636	0.164	0	145.71	
Stage 6	-11.2	56.036	69.17	V-C	0.2496.738	0	77.964	0.164	0	147.133	
Stage 6	-11.4	57.709	68.371	V-C	0.2496.738	0	80.291	0.164	0	148.662	
Stage 6	-11.6	59.382	67.672	V-C	0.2496.738	0	82.618	0.164	0	150.29	
Stage 6	-11.8	61.054	67.067	V-C	0.2496.738	0	84.945	0.164	0	152.012	
Stage 6	-12	62.727	66.537	UL-RL	0.2496.738	0	87.273	0.164	0	153.809	
Stage 6	-12.2	64.2	63.447	UL-RL	0.39 3.404	5	89.6	0.164	0	153.047	
Stage 6	-12.4	65.673	63.285	UL-RL	0.39 3.404	5	91.927	0.164	0	155.212	
Stage 6	-12.6	67.145	63.175	UL-RL	0.39 3.404	5	94.254	0.164	0	157.429	
Stage 6	-12.8	68.618	61.599	UL-RL	0.39 3.404	5	96.582	0.164	0	158.181	
Stage 6	-13	70.091	59.844	UL-RL	0.39 3.404	5	98.909	0.164	0	158.753	
Stage 6	-13.2	71.564	58.201	UL-RL	0.39 3.404	5	101.236	0.164	0	159.437	
Stage 6	-13.4	73.036	56.658	UL-RL	0.39 3.404	5	103.564	0.164	0	160.221	
Stage 6	-13.6	74.509	55.201	UL-RL	0.39 3.404	5	105.891	0.164	0	161.092	



Design Assumption: Nominal Risultati Terreno											
Stage	Z (m)	Muro:		LEFT	Lato		RIGHT	Pore (kPa)	Gradiente U* (kPa)	Peq (kPa)	
		Sigma V (kPa)	Sigma H (kPa)	Stato	Ka	Kp	Coesione (kPa)				
Stage 6	-13.8	75.982	53.819	UL-RL	0.39	3.404	5	108.218	0.164	0	162.037
Stage 6	-14	77.454	52.501	UL-RL	0.39	3.404	5	110.545	0.164	0	163.046
Stage 6	-14.2	78.927	51.236	UL-RL	0.39	3.404	5	112.873	0.164	0	164.108
Stage 6	-14.4	80.4	50.015	UL-RL	0.39	3.404	5	115.2	0.164	0	165.214
Stage 6	-14.6	81.873	48.828	UL-RL	0.39	3.404	5	117.527	0.164	0	166.355
Stage 6	-14.8	83.345	47.669	UL-RL	0.39	3.404	5	119.854	0.164	0	167.523
Stage 6	-15	84.818	46.53	UL-RL	0.39	3.404	5	122.182	0.164	0	168.711
Stage 6	-15.2	86.291	45.405	UL-RL	0.39	3.404	5	124.509	0.164	0	169.914
Stage 6	-15.4	87.764	44.289	UL-RL	0.39	3.404	5	126.836	0.164	0	171.125
Stage 6	-15.6	89.236	43.178	UL-RL	0.39	3.404	5	129.164	0.164	0	172.342
Stage 6	-15.8	90.709	42.07	UL-RL	0.39	3.404	5	131.491	0.164	0	173.561
Stage 6	-16	92.182	40.962	UL-RL	0.39	3.404	5	133.818	0.164	0	174.781

## Tabella Risultati Terreno Left Wall - Nominal - Stage 7

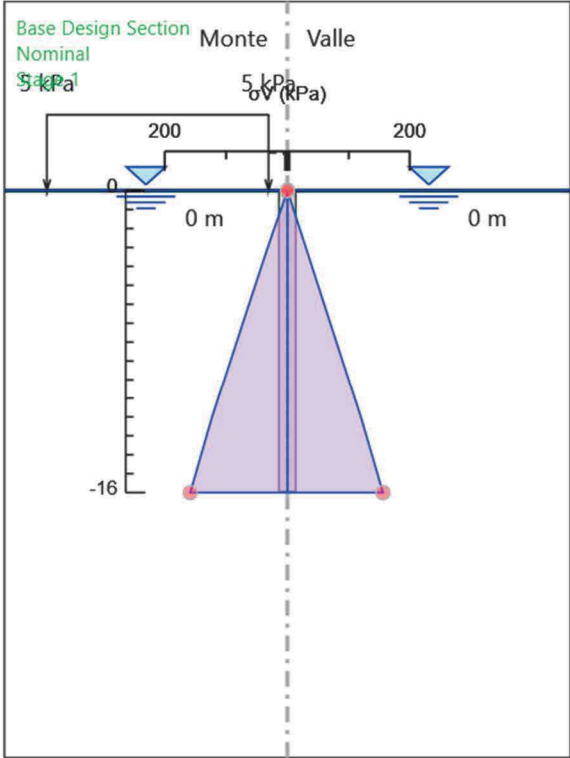
Design Assumption: Nominal Risultati Terreno				Muro:	LEFT	Lato	LEFT				
Stage	Z (m)	Sigma V (kPa)	Sigma H (kPa)	Stato	Ka	Kp	Coesione (kPa)	Pore (kPa)	Gradiente U* (kPa)	Peq (kPa)	
Stage 7	0	0	0	PASSIVE	0.2496.738		0	0	0	0	
Stage 7	-0.2	2.327	0.768	UL-RL	0.2496.738		0	1.673	0.164	2.441	
Stage 7	-0.4	4.655	1.362	UL-RL	0.2496.738		0	3.345	0.164	4.707	
Stage 7	-0.6	6.982	1.955	UL-RL	0.2496.738		0	5.018	0.164	6.973	
Stage 7	-0.8	9.309	2.548	UL-RL	0.2496.738		0	6.691	0.164	9.239	
Stage 7	-1	11.636	3.142	UL-RL	0.2496.738		0	8.364	0.164	11.505	
Stage 7	-1.2	13.964	3.735	UL-RL	0.2496.738		0	10.036	0.164	13.771	
Stage 7	-1.4	16.291	4.328	UL-RL	0.2496.738		0	11.709	0.164	16.037	
Stage 7	-1.6	18.618	4.921	UL-RL	0.2496.738		0	13.382	0.164	18.302	
Stage 7	-1.8	20.945	5.513	UL-RL	0.2496.738		0	15.055	0.164	20.568	
Stage 7	-2	23.273	6.105	UL-RL	0.2496.738		0	16.727	0.164	22.833	
Stage 7	-2.2	25.6	6.697	UL-RL	0.2496.738		0	18.4	0.164	25.097	
Stage 7	-2.4	27.927	7.289	UL-RL	0.2496.738		0	20.073	0.164	27.361	
Stage 7	-2.6	30.255	7.879	UL-RL	0.2496.738		0	21.745	0.164	29.625	
Stage 7	-2.8	32.582	8.47	UL-RL	0.2496.738		0	23.418	0.164	31.888	
Stage 7	-3	34.909	9.06	UL-RL	0.2496.738		0	25.091	0.164	34.151	
Stage 7	-3.2	37.236	9.649	UL-RL	0.2496.738		0	26.764	0.164	36.413	
Stage 7	-3.4	39.564	10.238	UL-RL	0.2496.738		0	28.436	0.164	38.674	
Stage 7	-3.6	41.891	10.826	UL-RL	0.2496.738		0	30.109	0.164	40.935	
Stage 7	-3.8	44.218	11.413	UL-RL	0.2496.738		0	31.782	0.164	43.195	
Stage 7	-4	46.545	12	UL-RL	0.2496.738		0	33.455	0.164	45.455	
Stage 7	-4.2	48.873	12.586	UL-RL	0.2496.738		0	35.127	0.164	47.714	
Stage 7	-4.4	51.2	13.172	UL-RL	0.2496.738		0	36.8	0.164	49.972	
Stage 7	-4.6	53.527	13.758	UL-RL	0.2496.738		0	38.473	0.164	52.23	
Stage 7	-4.8	55.855	14.342	UL-RL	0.2496.738		0	40.145	0.164	54.488	
Stage 7	-5	58.182	14.927	UL-RL	0.2496.738		0	41.818	0.164	56.745	
Stage 7	-5.2	60.509	15.511	UL-RL	0.2496.738		0	43.491	0.164	59.002	
Stage 7	-5.4	62.836	16.094	UL-RL	0.2496.738		0	45.164	0.164	61.258	
Stage 7	-5.6	65.164	16.678	UL-RL	0.2496.738		0	46.836	0.164	63.514	
Stage 7	-5.8	67.491	17.261	UL-RL	0.2496.738		0	48.509	0.164	65.77	
Stage 7	-6	69.818	17.844	UL-RL	0.2496.738		0	50.182	0.164	68.026	
Stage 7	-6.2	72.145	18.427	UL-RL	0.2496.738		0	51.855	0.164	70.281	
Stage 7	-6.4	74.473	19.01	UL-RL	0.2496.738		0	53.527	0.164	72.537	
Stage 7	-6.6	76.8	19.592	UL-RL	0.2496.738		0	55.2	0.164	74.792	
Stage 7	-6.8	79.127	20.175	UL-RL	0.2496.738		0	56.873	0.164	77.048	
Stage 7	-7	81.455	20.758	UL-RL	0.2496.738		0	58.545	0.164	79.303	
Stage 7	-7.2	83.782	21.341	UL-RL	0.2496.738		0	60.218	0.164	81.559	
Stage 7	-7.4	86.109	21.923	UL-RL	0.2496.738		0	61.891	0.164	83.814	
Stage 7	-7.6	88.436	22.506	UL-RL	0.2496.738		0	63.564	0.164	86.07	
Stage 7	-7.8	90.764	23.09	UL-RL	0.2496.738		0	65.236	0.164	88.326	
Stage 7	-8	93.091	23.673	UL-RL	0.2496.738		0	66.909	0.164	90.582	
Stage 7	-8.2	95.418	24.257	UL-RL	0.2496.738		0	68.582	0.164	92.838	
Stage 7	-8.4	97.745	24.84	UL-RL	0.2496.738		0	70.255	0.164	95.095	
Stage 7	-8.6	100.073	25.425	UL-RL	0.2496.738		0	71.927	0.164	97.352	
Stage 7	-8.8	102.4	26.009	UL-RL	0.2496.738		0	73.6	0.164	99.609	
Stage 7	-9	104.727	26.594	UL-RL	0.2496.738		0	75.273	0.164	101.867	
Stage 7	-9.2	107.054	27.179	UL-RL	0.2496.738		0	76.945	0.164	104.125	
Stage 7	-9.4	109.382	27.765	UL-RL	0.2496.738		0	78.618	0.164	106.383	
Stage 7	-9.6	111.709	28.351	UL-RL	0.2496.738		0	80.291	0.164	108.642	
Stage 7	-9.8	114.036	28.938	UL-RL	0.2496.738		0	81.964	0.164	110.901	
Stage 7	-10	116.364	29.525	UL-RL	0.2496.738		0	83.636	0.164	113.161	
Stage 7	-10.2	118.691	30.112	UL-RL	0.2496.738		0	85.309	0.164	115.421	
Stage 7	-10.4	121.018	30.7	UL-RL	0.2496.738		0	86.982	0.164	117.682	
Stage 7	-10.6	123.345	31.289	UL-RL	0.2496.738		0	88.654	0.164	119.943	
Stage 7	-10.8	125.673	31.878	UL-RL	0.2496.738		0	90.327	0.164	122.205	
Stage 7	-11	128	32.467	UL-RL	0.2496.738		0	92	0.164	124.467	
Stage 7	-11.2	130.327	33.057	UL-RL	0.2496.738		0	93.673	0.164	126.73	
Stage 7	-11.4	132.654	33.647	UL-RL	0.2496.738		0	95.345	0.164	128.993	
Stage 7	-11.6	134.982	34.238	UL-RL	0.2496.738		0	97.018	0.164	131.256	
Stage 7	-11.8	137.309	34.829	UL-RL	0.2496.738		0	98.691	0.164	133.52	
Stage 7	-12	139.636	35.45	UL-RL	0.2496.738		0	100.364	0.164	135.813	
Stage 7	-12.2	141.764	49.859	UL-RL	0.39 3.404		5	102.036	0.164	151.896	
Stage 7	-12.4	143.891	50.751	UL-RL	0.39 3.404		5	103.709	0.164	154.46	
Stage 7	-12.6	146.018	51.639	UL-RL	0.39 3.404		5	105.382	0.164	157.021	
Stage 7	-12.8	148.145	55.601	UL-RL	0.39 3.404		5	107.054	0.164	162.655	
Stage 7	-13	150.273	59.963	UL-RL	0.39 3.404		5	108.727	0.164	168.69	

Design Assumption: Nominal Risultati Terreno											
Stage	Z (m)	Sigma V (kPa)	Muro: Sigma H (kPa)	LEFT	Lato		LEFT				
				Stato	Ka	Kp	Coesione (kPa)	Pore (kPa)	Gradiente U* (kPa)	Peq (kPa)	
Stage 7	-13.2	152.4	64.182	UL-RL	0.39	3.404	5	110.4	0.164	0	174.582
Stage 7	-13.4	154.527	67.714	UL-RL	0.39	3.404	5	112.073	0.164	0	179.786
Stage 7	-13.6	156.654	70.98	UL-RL	0.39	3.404	5	113.745	0.164	0	184.726
Stage 7	-13.8	158.782	73.396	UL-RL	0.39	3.404	5	115.418	0.164	0	188.814
Stage 7	-14	160.909	75.281	UL-RL	0.39	3.404	5	117.091	0.164	0	192.372
Stage 7	-14.2	163.036	77.136	UL-RL	0.39	3.404	5	118.764	0.164	0	195.9
Stage 7	-14.4	165.164	78.967	UL-RL	0.39	3.404	5	120.436	0.164	0	199.404
Stage 7	-14.6	167.291	80.78	UL-RL	0.39	3.404	5	122.109	0.164	0	202.889
Stage 7	-14.8	169.418	82.578	UL-RL	0.39	3.404	5	123.782	0.164	0	206.36
Stage 7	-15	171.545	84.366	UL-RL	0.39	3.404	5	125.454	0.164	0	209.82
Stage 7	-15.2	173.673	86.147	UL-RL	0.39	3.404	5	127.127	0.164	0	213.274
Stage 7	-15.4	175.8	87.978	UL-RL	0.39	3.404	5	128.8	0.164	0	216.778
Stage 7	-15.6	177.927	89.809	UL-RL	0.39	3.404	5	130.473	0.164	0	220.282
Stage 7	-15.8	180.054	91.639	UL-RL	0.39	3.404	5	132.145	0.164	0	223.784
Stage 7	-16	182.182	93.469	UL-RL	0.39	3.404	5	133.818	0.164	0	227.287

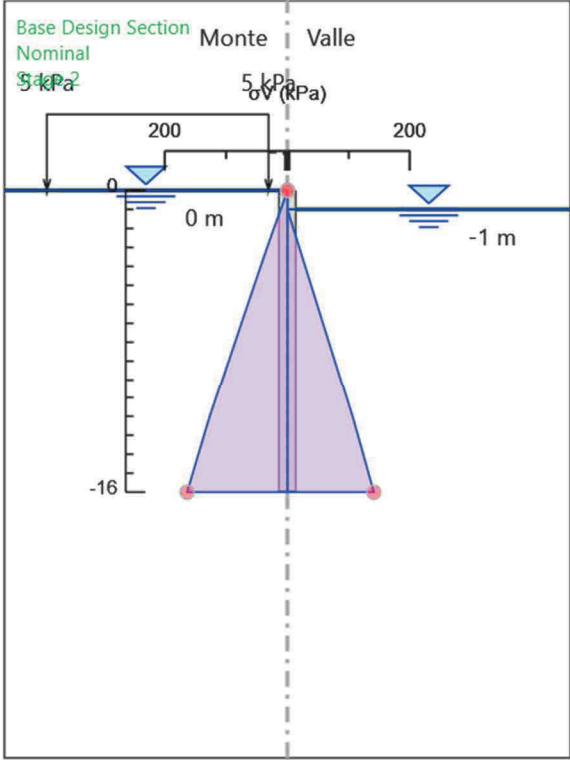
Design Assumption: Nominal Risultati Terreno			Muro:	LEFT	Lato	RIGHT					
Stage	Z (m)	Sigma V (kPa)	Sigma H (kPa)	Stato	Ka	Kp	Coesione (kPa)	Pore (kPa)	Gradiente U* (kPa)	Peq (kPa)	
Stage 7	0	0	0	REMOVED	0	0	0	0	0	0	0
Stage 7	-0.2	0	0	REMOVED	0	0	0	0	0	0	0
Stage 7	-0.4	0	0	REMOVED	0	0	0	0	0	0	0
Stage 7	-0.6	0	0	REMOVED	0	0	0	0	0	0	0
Stage 7	-0.8	0	0	REMOVED	0	0	0	0	0	0	0
Stage 7	-1	0	0	REMOVED	0	0	0	0	0	0	0
Stage 7	-1.2	0	0	REMOVED	0	0	0	0	0	0	0
Stage 7	-1.4	0	0	REMOVED	0	0	0	0	0	0	0
Stage 7	-1.6	0	0	REMOVED	0	0	0	0	0	0	0
Stage 7	-1.8	0	0	REMOVED	0	0	0	0	0	0	0
Stage 7	-2	0	0	REMOVED	0	0	0	0	0	0	0
Stage 7	-2.2	0	0	REMOVED	0	0	0	0	0	0	0
Stage 7	-2.4	0	0	REMOVED	0	0	0	0	0	0	0
Stage 7	-2.6	0	0	REMOVED	0	0	0	0	0	0	0
Stage 7	-2.8	0	0	REMOVED	0	0	0	0	0	0	0
Stage 7	-3	0	0	REMOVED	0	0	0	0	0	0	0
Stage 7	-3.2	0	0	REMOVED	0	0	0	0	0	0	0
Stage 7	-3.4	0	0	REMOVED	0	0	0	0	0	0	0
Stage 7	-3.6	0	0	REMOVED	0	0	0	0	0	0	0
Stage 7	-3.8	0	0	REMOVED	0	0	0	0	0	0	0
Stage 7	-4	0	0	REMOVED	0	0	0	0	0	0	0
Stage 7	-4.2	0	0	REMOVED	0	0	0	0	0	0	0
Stage 7	-4.4	0	0	REMOVED	0	0	0	0	0	0	0
Stage 7	-4.6	0.836	5.422	UL-RL	0.2496.738		0	1.164	0.164	0	6.586
Stage 7	-4.8	2.509	16.69	UL-RL	0.2496.738		0	3.491	0.164	0	20.181
Stage 7	-5	4.182	27.959	UL-RL	0.2496.738		0	5.818	0.164	0	33.777
Stage 7	-5.2	5.855	39.227	UL-RL	0.2496.738		0	8.145	0.164	0	47.373
Stage 7	-5.4	7.527	50.496	UL-RL	0.2496.738		0	10.473	0.164	0	60.969
Stage 7	-5.6	9.2	61.765	UL-RL	0.2496.738		0	12.8	0.164	0	74.565
Stage 7	-5.8	10.873	73.034	UL-RL	0.2496.738		0	15.127	0.164	0	88.161
Stage 7	-6	12.545	84.303	UL-RL	0.2496.738		0	17.455	0.164	0	101.757
Stage 7	-6.2	14.218	95.572	UL-RL	0.2496.738		0	19.782	0.164	0	115.354
Stage 7	-6.4	15.891	106.841	UL-RL	0.2496.738		0	22.109	0.164	0	128.95
Stage 7	-6.6	17.564	118.11	UL-RL	0.2496.738		0	24.436	0.164	0	142.547
Stage 7	-6.8	19.236	120.567	UL-RL	0.2496.738		0	26.764	0.164	0	147.331
Stage 7	-7	20.909	116.625	UL-RL	0.2496.738		0	29.091	0.164	0	145.716
Stage 7	-7.2	22.582	112.833	UL-RL	0.2496.738		0	31.418	0.164	0	144.251
Stage 7	-7.4	24.255	109.194	UL-RL	0.2496.738		0	33.745	0.164	0	142.94
Stage 7	-7.6	25.927	105.712	UL-RL	0.2496.738		0	36.073	0.164	0	141.784
Stage 7	-7.8	27.6	102.387	UL-RL	0.2496.738		0	38.4	0.164	0	140.787
Stage 7	-8	29.273	99.221	UL-RL	0.2496.738		0	40.727	0.164	0	139.948
Stage 7	-8.2	30.945	96.214	UL-RL	0.2496.738		0	43.055	0.164	0	139.268
Stage 7	-8.4	32.618	93.366	UL-RL	0.2496.738		0	45.382	0.164	0	138.748
Stage 7	-8.6	34.291	90.675	UL-RL	0.2496.738		0	47.709	0.164	0	138.384
Stage 7	-8.8	35.964	88.141	UL-RL	0.2496.738		0	50.036	0.164	0	138.178
Stage 7	-9	37.636	85.762	UL-RL	0.2496.738		0	52.364	0.164	0	138.126
Stage 7	-9.2	39.309	83.535	UL-RL	0.2496.738		0	54.691	0.164	0	138.226
Stage 7	-9.4	40.982	81.457	UL-RL	0.2496.738		0	57.018	0.164	0	138.475
Stage 7	-9.6	42.655	79.526	UL-RL	0.2496.738		0	59.345	0.164	0	138.871
Stage 7	-9.8	44.327	77.738	UL-RL	0.2496.738		0	61.673	0.164	0	139.41
Stage 7	-10	46	76.088	UL-RL	0.2496.738		0	64	0.164	0	140.088
Stage 7	-10.2	47.673	74.574	UL-RL	0.2496.738		0	66.327	0.164	0	140.902
Stage 7	-10.4	49.345	73.191	UL-RL	0.2496.738		0	68.654	0.164	0	141.846
Stage 7	-10.6	51.018	71.934	UL-RL	0.2496.738		0	70.982	0.164	0	142.916
Stage 7	-10.8	52.691	70.798	UL-RL	0.2496.738		0	73.309	0.164	0	144.107
Stage 7	-11	54.364	69.778	UL-RL	0.2496.738		0	75.636	0.164	0	145.414
Stage 7	-11.2	56.036	68.869	UL-RL	0.2496.738		0	77.964	0.164	0	146.832
Stage 7	-11.4	57.709	68.064	UL-RL	0.2496.738		0	80.291	0.164	0	148.355
Stage 7	-11.6	59.382	67.36	UL-RL	0.2496.738		0	82.618	0.164	0	149.978
Stage 7	-11.8	61.054	66.749	UL-RL	0.2496.738		0	84.945	0.164	0	151.694
Stage 7	-12	62.727	66.213	UL-RL	0.2496.738		0	87.273	0.164	0	153.486
Stage 7	-12.2	64.2	63.199	UL-RL	0.39 3.404		5	89.6	0.164	0	152.799
Stage 7	-12.4	65.673	63.033	UL-RL	0.39 3.404		5	91.927	0.164	0	154.96
Stage 7	-12.6	67.145	62.918	UL-RL	0.39 3.404		5	94.254	0.164	0	157.172
Stage 7	-12.8	68.618	61.338	UL-RL	0.39 3.404		5	96.582	0.164	0	157.919
Stage 7	-13	70.091	59.578	UL-RL	0.39 3.404		5	98.909	0.164	0	158.487
Stage 7	-13.2	71.564	57.93	UL-RL	0.39 3.404		5	101.236	0.164	0	159.167
Stage 7	-13.4	73.036	56.382	UL-RL	0.39 3.404		5	103.564	0.164	0	159.946
Stage 7	-13.6	74.509	54.921	UL-RL	0.39 3.404		5	105.891	0.164	0	160.812

Design Assumption: Nominal Risultati Terreno											
Stage	Z (m)	Muro:		LEFT	Lato		RIGHT	Pore (kPa)	Gradiente U* (kPa)	Peq (kPa)	
		Sigma V (kPa)	Sigma H (kPa)	Stato	Ka	Kp	Coesione (kPa)				
Stage 7	-13.8	75.982	53.535	UL-RL	0.39	3.404	5	108.218	0.164	0	161.753
Stage 7	-14	77.454	52.212	UL-RL	0.39	3.404	5	110.545	0.164	0	162.758
Stage 7	-14.2	78.927	50.943	UL-RL	0.39	3.404	5	112.873	0.164	0	163.816
Stage 7	-14.4	80.4	49.717	UL-RL	0.39	3.404	5	115.2	0.164	0	164.917
Stage 7	-14.6	81.873	48.527	UL-RL	0.39	3.404	5	117.527	0.164	0	166.054
Stage 7	-14.8	83.345	47.363	UL-RL	0.39	3.404	5	119.854	0.164	0	167.217
Stage 7	-15	84.818	46.22	UL-RL	0.39	3.404	5	122.182	0.164	0	168.401
Stage 7	-15.2	86.291	45.09	UL-RL	0.39	3.404	5	124.509	0.164	0	169.599
Stage 7	-15.4	87.764	43.97	UL-RL	0.39	3.404	5	126.836	0.164	0	170.806
Stage 7	-15.6	89.236	42.855	UL-RL	0.39	3.404	5	129.164	0.164	0	172.019
Stage 7	-15.8	90.709	41.743	UL-RL	0.39	3.404	5	131.491	0.164	0	173.234
Stage 7	-16	92.182	40.631	UL-RL	0.39	3.404	5	133.818	0.164	0	174.449

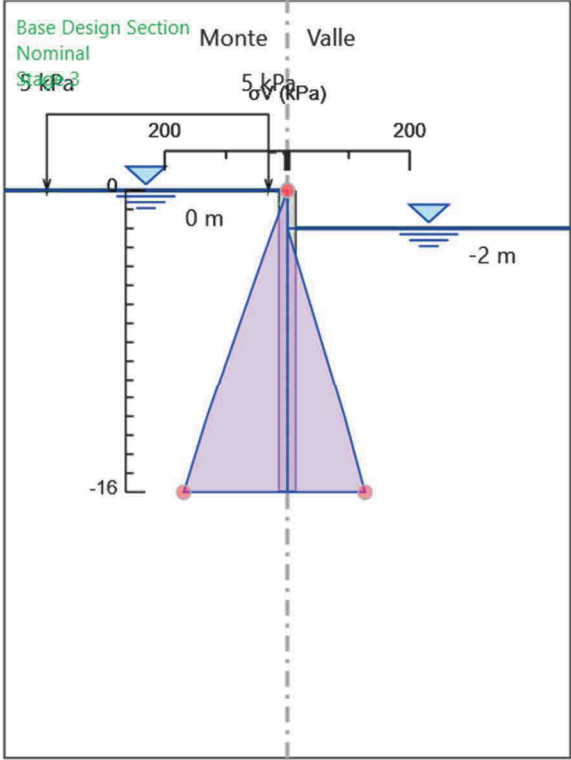
# Grafico Risultati Terreno Sigma V



Design Assumption: Nominal  
Stage: Stage 1  
Sigma V

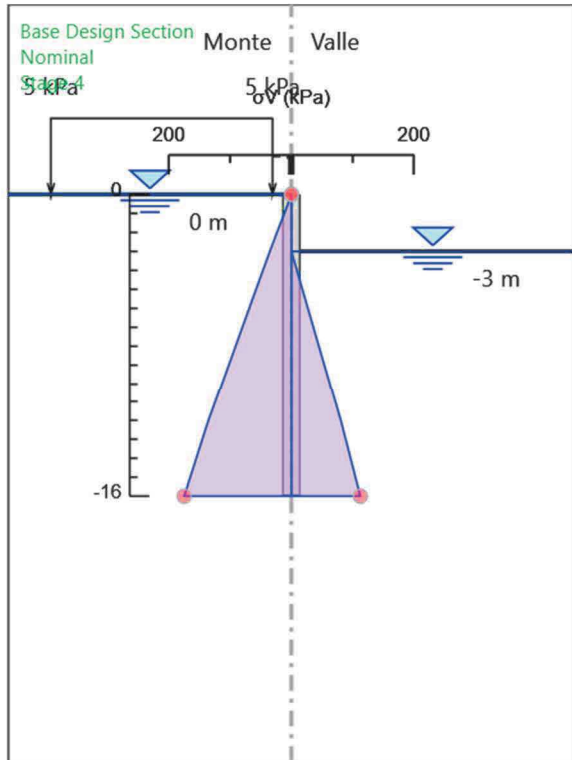


Design Assumption: Nominal  
Stage: Stage 2  
Sigma V

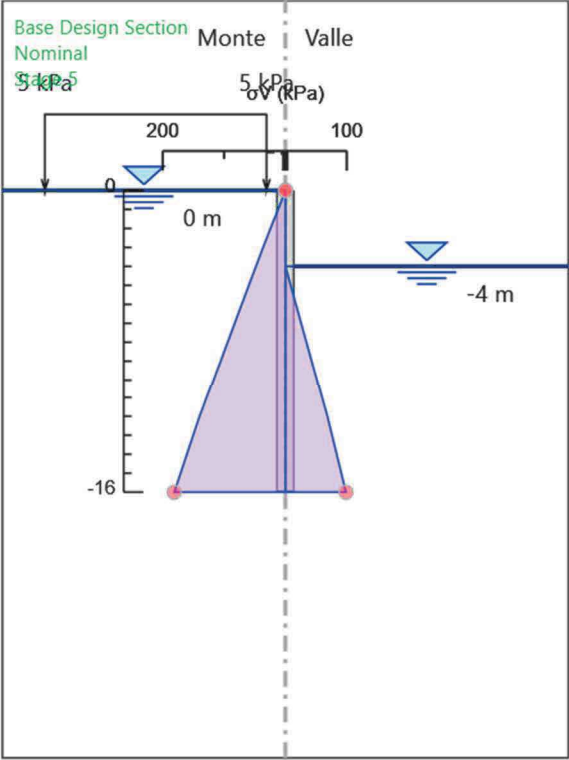


Design Assumption: Nominal  
Stage: Stage 3  
Sigma V

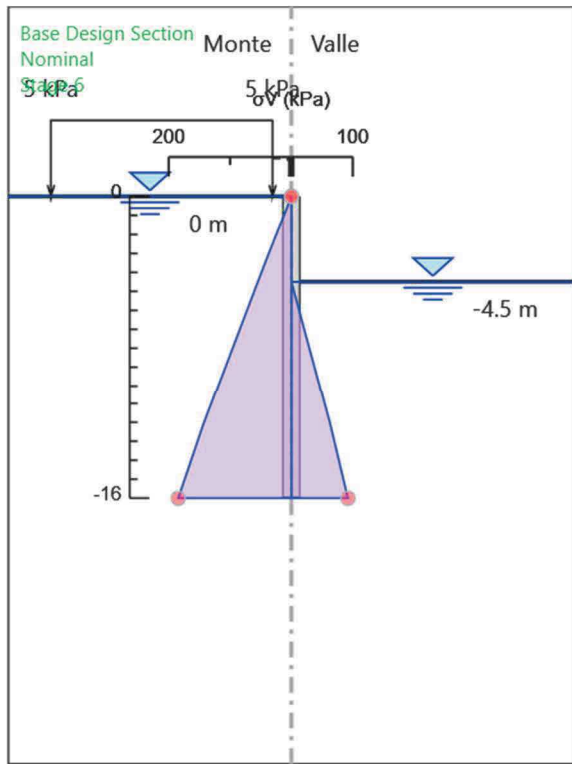




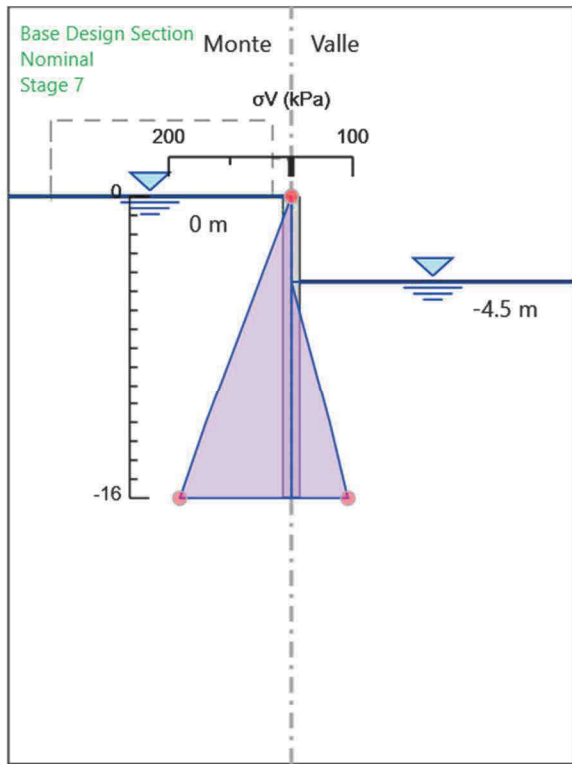
Design Assumption: Nominal  
Stage: Stage 4  
Sigma V



Design Assumption: Nominal  
 Stage: Stage 5  
 Sigma V

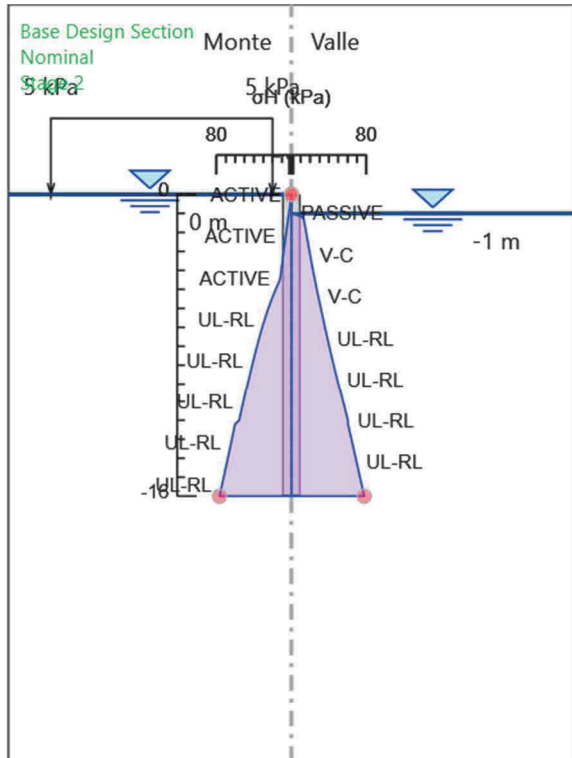


Design Assumption: Nominal  
Stage: Stage 6  
Sigma V

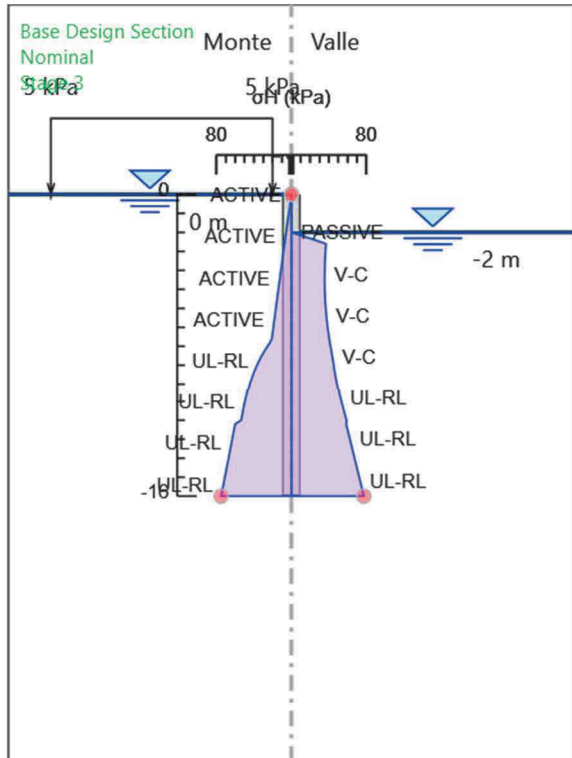


Design Assumption: Nominal  
Stage: Stage 7  
Sigma V

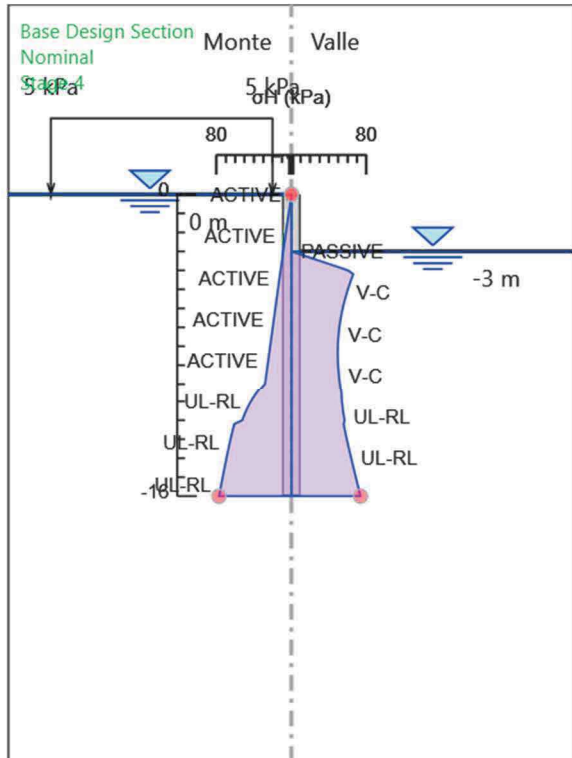




Design Assumption: Nominal  
 Stage: Stage 2  
 Sigma H

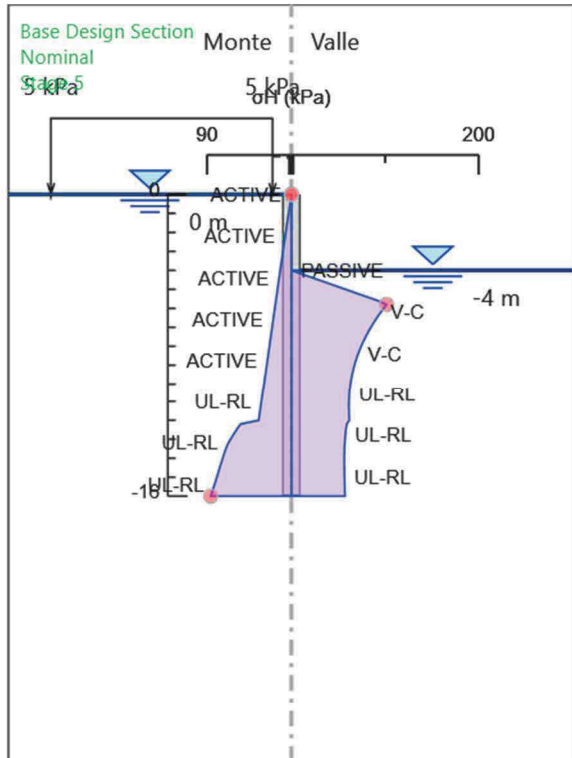


Design Assumption: Nominal  
 Stage: Stage 3  
 Sigma H

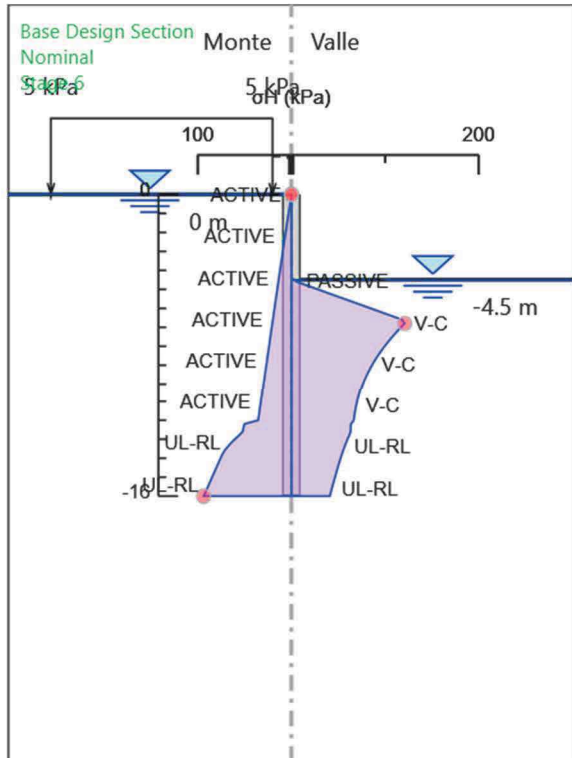


Design Assumption: Nominal  
 Stage: Stage 4  
 Sigma H

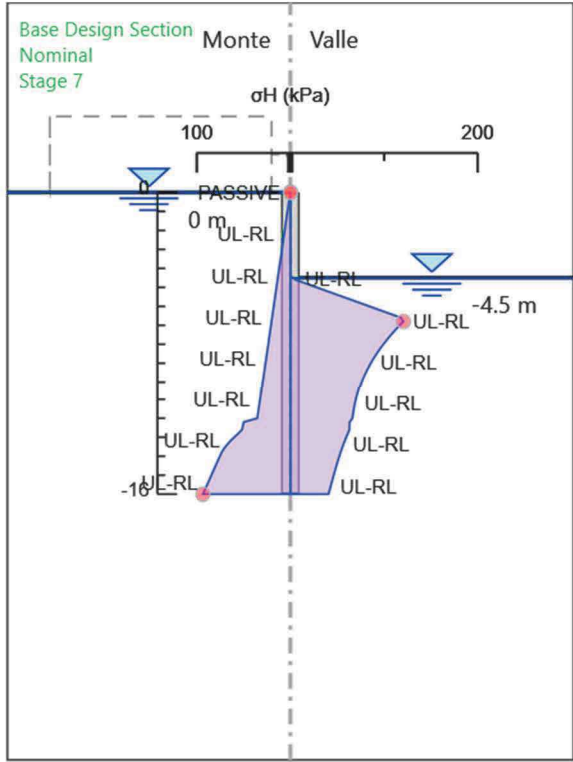




Design Assumption: Nominal  
 Stage: Stage 5  
 Sigma H

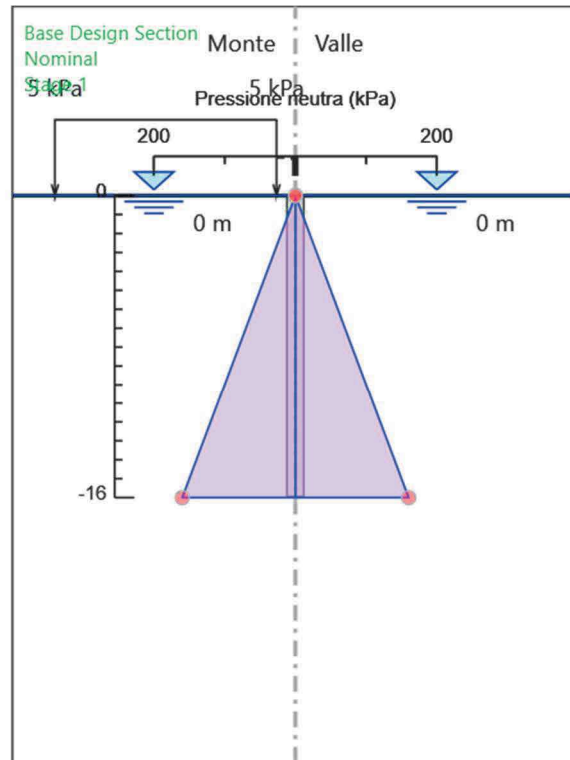


Design Assumption: Nominal  
 Stage: Stage 6  
 Sigma H

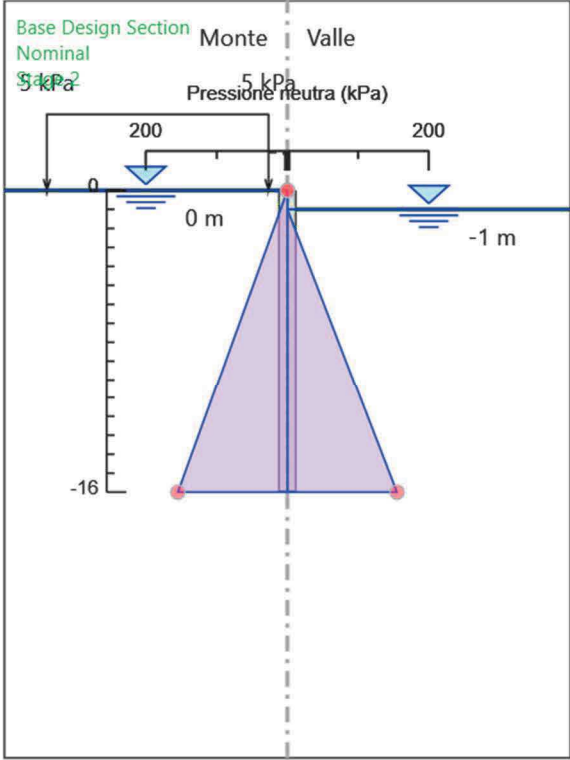


Design Assumption: Nominal  
 Stage: Stage 7  
 Sigma H

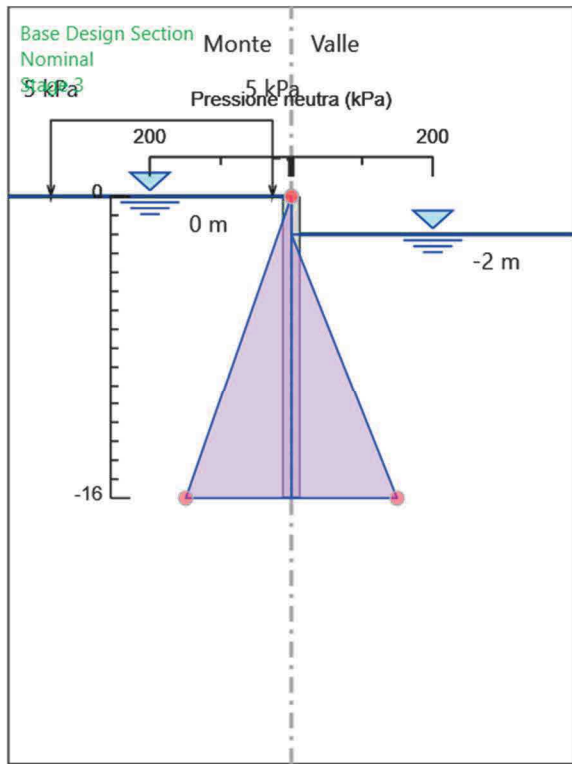
## Grafico Risultati Terreno Pressione neutra



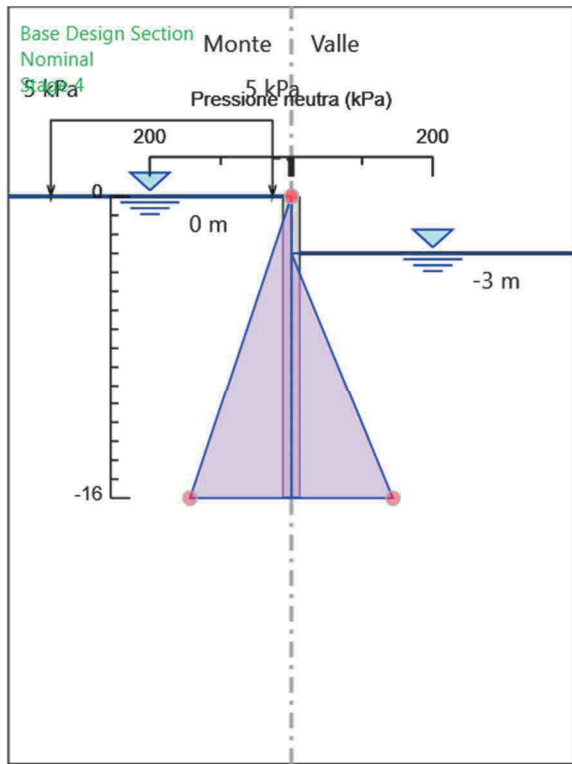
Design Assumption: Nominal  
Stage: Stage 1  
Pressione neutra



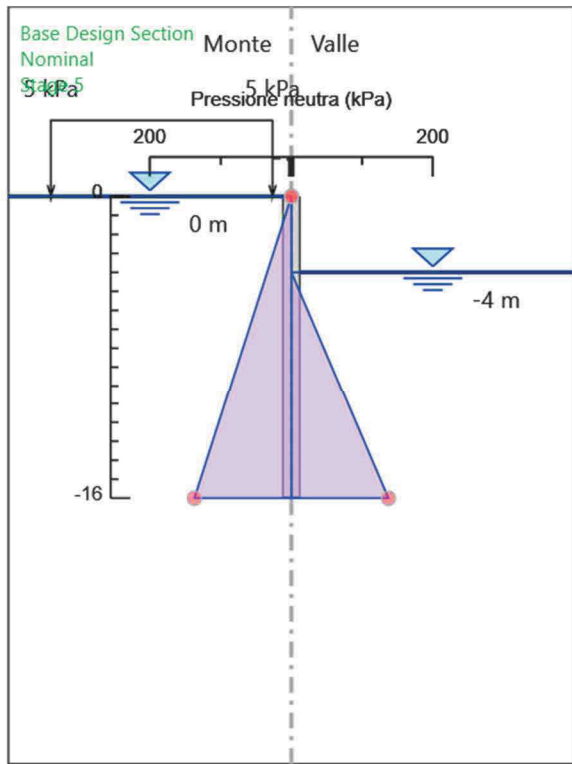
Design Assumption: Nominal  
Stage: Stage 2  
Pressione neutra



Design Assumption: Nominal  
Stage: Stage 3  
Pressione neutra

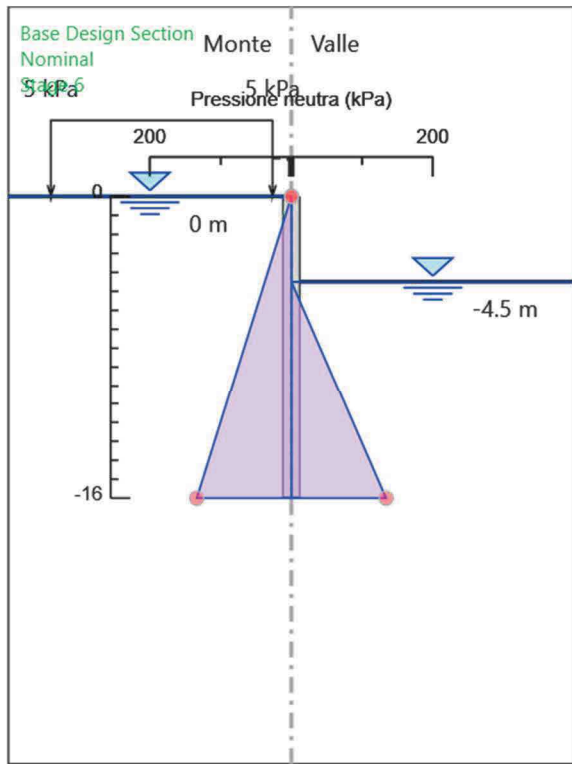


Design Assumption: Nominal  
 Stage: Stage 4  
 Pressione neutra

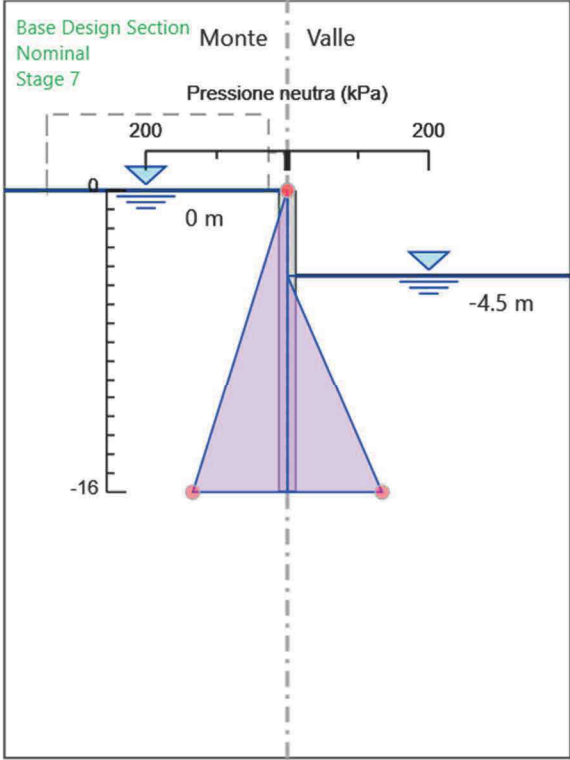


Design Assumption: Nominal  
 Stage: Stage 5  
 Pressione neutra



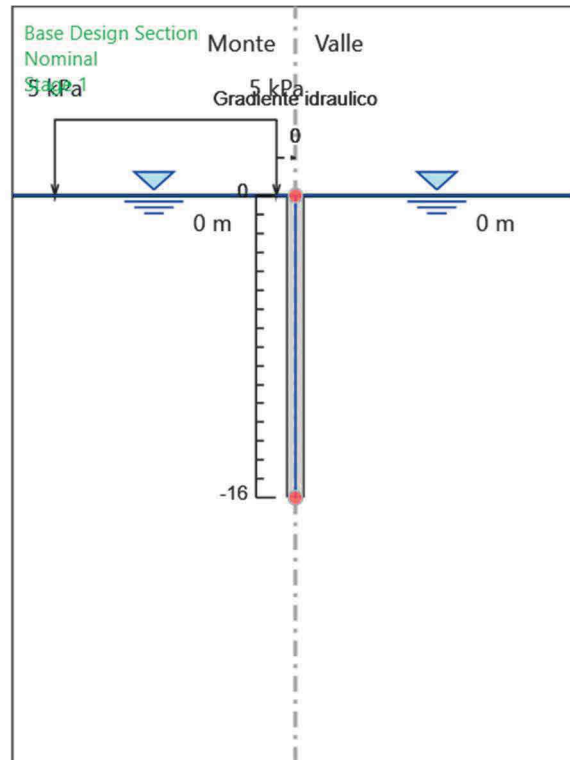


Design Assumption: Nominal  
 Stage: Stage 6  
 Pressione neutra

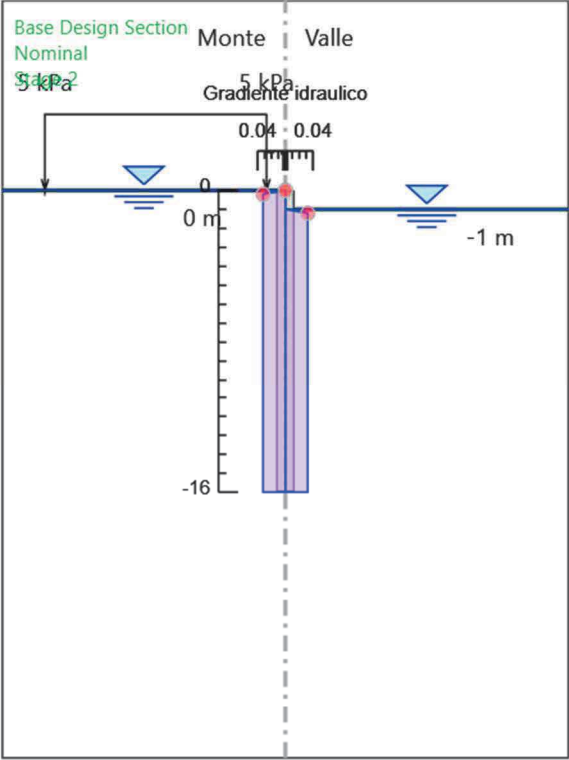


Design Assumption: Nominal  
Stage: Stage 7  
Pressione neutra

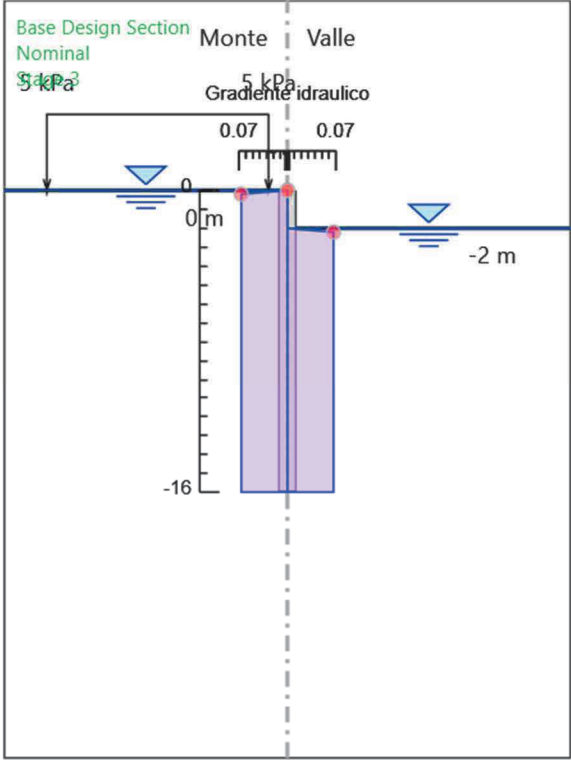
## Grafico Risultati Terreno Gradiente idraulico



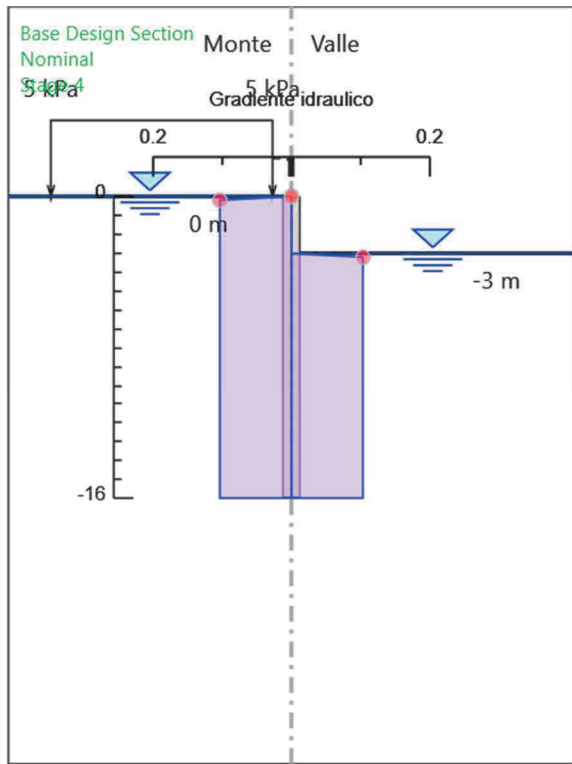
Design Assumption: Nominal  
Stage: Stage 1  
Gradiente idraulico



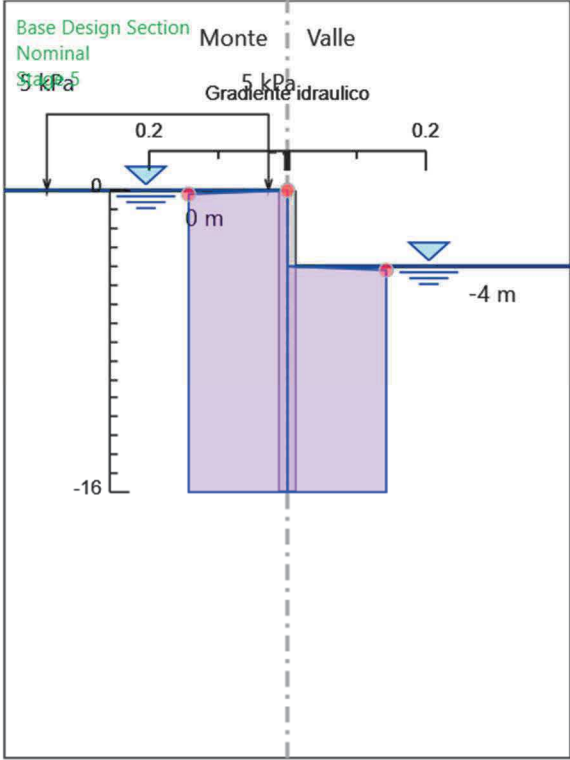
Design Assumption: Nominal  
Stage: Stage 2  
Gradiente idraulico



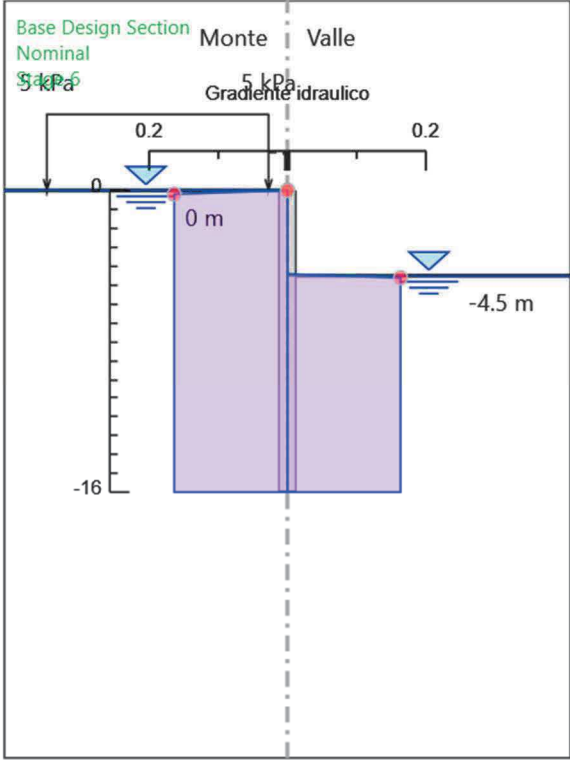
Design Assumption: Nominal  
 Stage: Stage 3  
 Gradiente idraulico



Design Assumption: Nominal  
 Stage: Stage 4  
 Gradiente idraulico

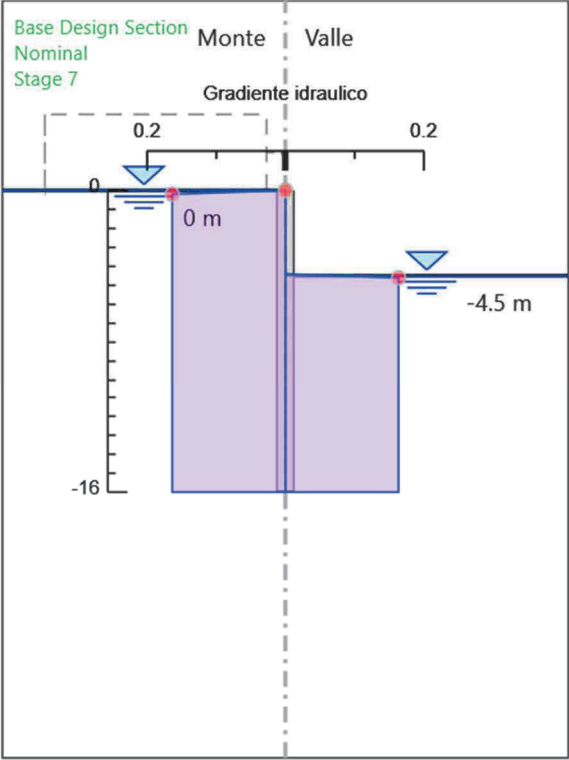


Design Assumption: Nominal  
Stage: Stage 5  
Gradiente idraulico



Design Assumption: Nominal  
 Stage: Stage 6  
 Gradiente hidráulico

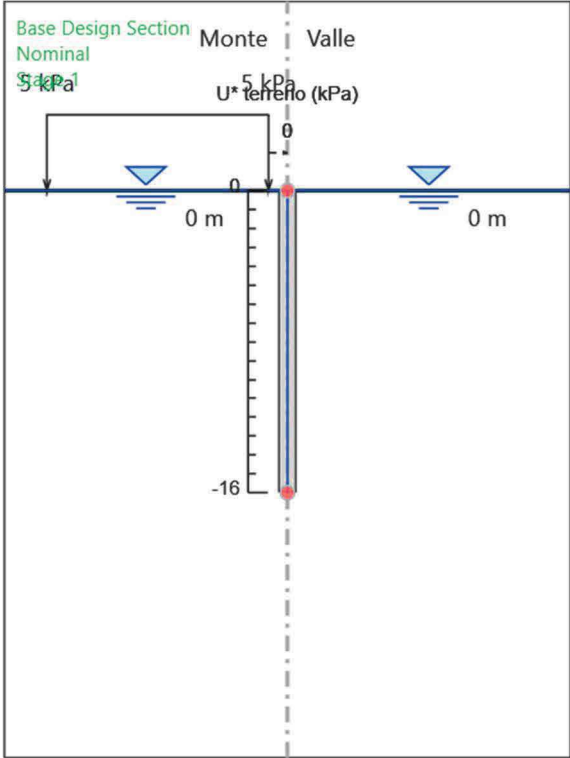




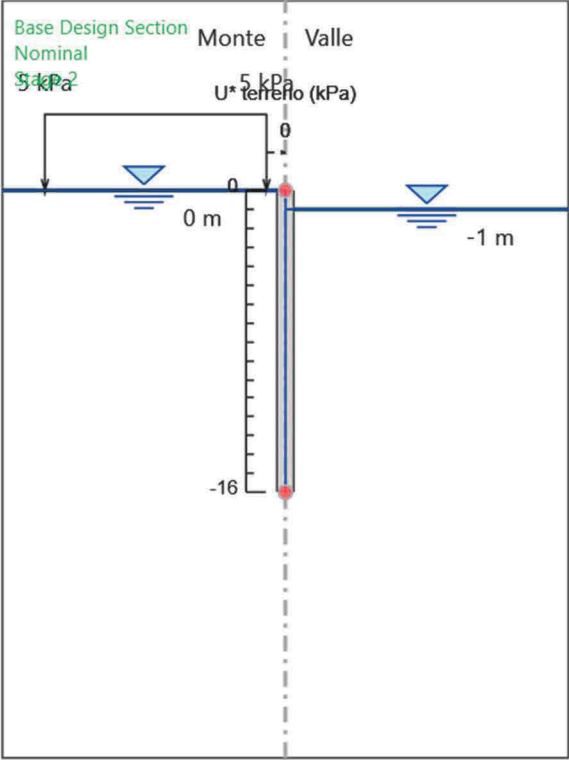
Design Assumption: Nominal  
Stage: Stage 7

Gradiente idraulico

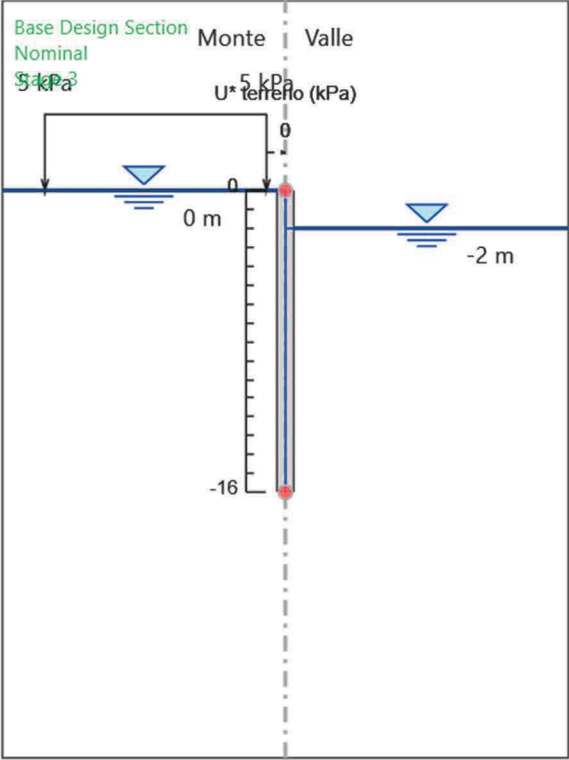
# Grafico Risultati Terreno U\* terreno



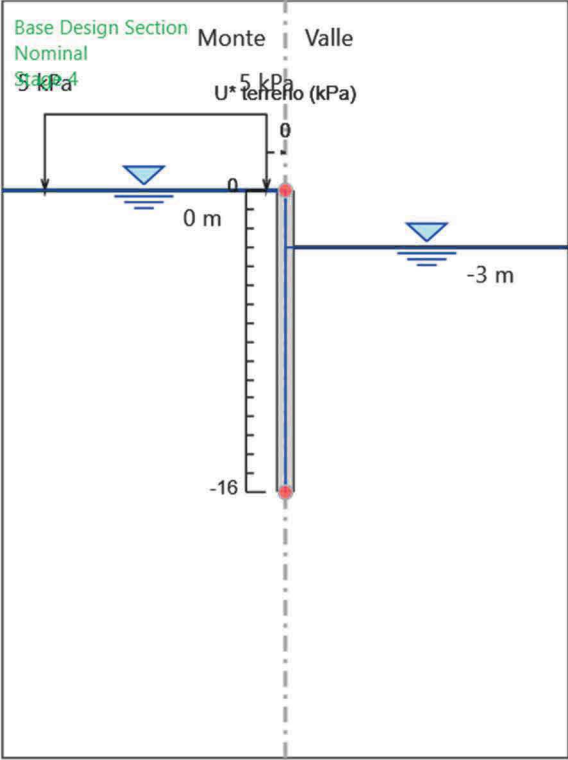
Design Assumption: Nominal  
Stage: Stage 1  
U\* terreno



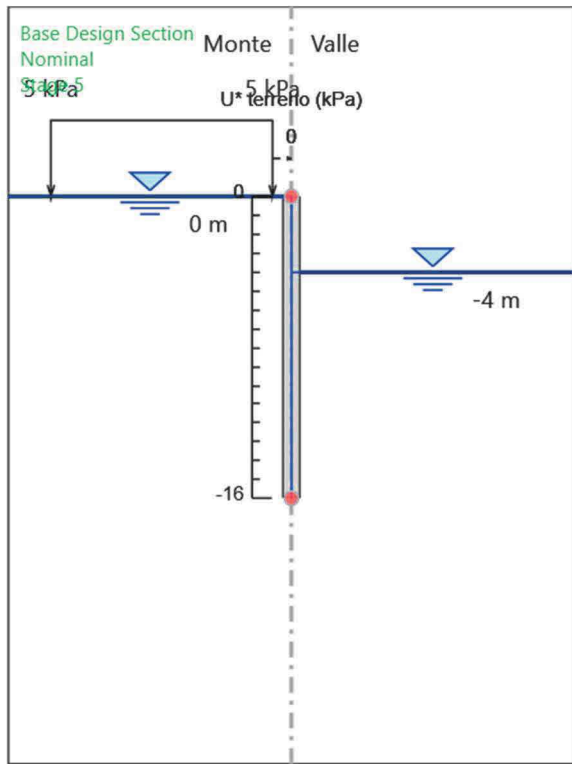
Design Assumption: Nominal  
Stage: Stage 2  
 $U^*_{\text{terreno}}$



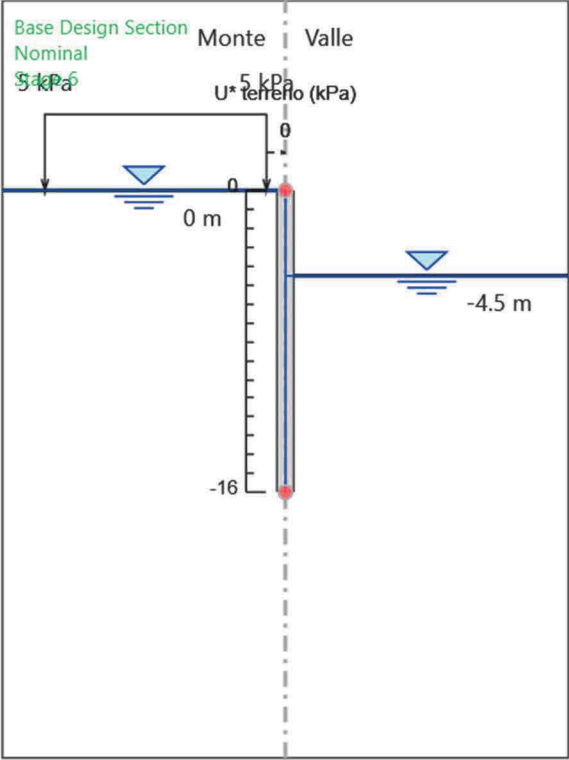
Design Assumption: Nominal  
Stage: Stage 3  
 $U^*_{\text{terreno}}$



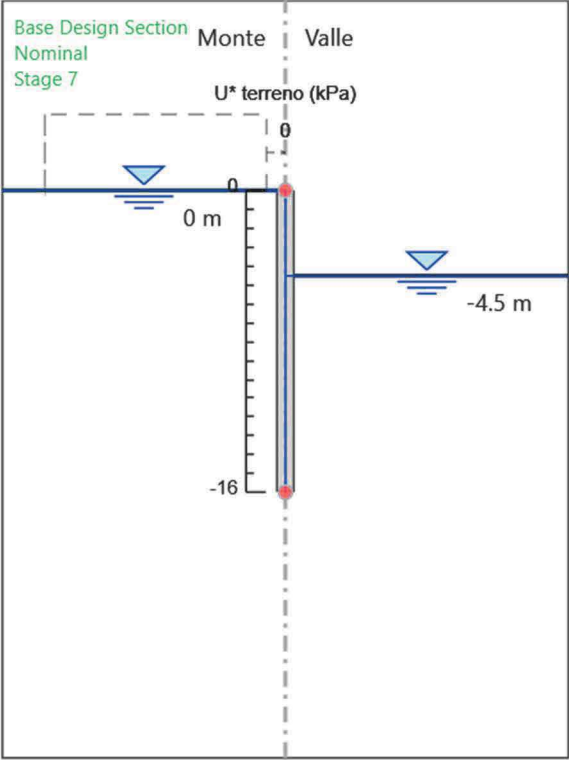
Design Assumption: Nominal  
Stage: Stage 4  
U\* terreno



Design Assumption: Nominal  
 Stage: Stage 5  
 U\* terreno



Design Assumption: Nominal  
 Stage: Stage 6  
 U\* terreno



Design Assumption: Nominal  
Stage: Stage 7  
 $U^* \text{ terreno}$



## Riepilogo spinte

Design Assumption:	Tipo Risultato:	Muro:	LEFT	Lato	LEFT		
Nominal Stage	Riepilogo spinte						
	Vera effettiva	Pressione neutra	Vera Totale	Min ammissibile	Max ammissibile	Percentuale di resistenza massima	Vera / Attiva
	(kN/m)	(kN/m)	(kN/m)	(kN/m)	(kN/m)		
Stage 1	651.5	1280	1931.5	379.9	7069.9	9.22%	1.71
Stage 2	575.3	1238.7	1814	392.7	7289.2	7.89%	1.46
Stage 3	528.7	1194.7	1723.4	406.3	7523.1	7.03%	1.3
Stage 4	503.1	1147.6	1650.7	420.9	7773.1	6.47%	1.2
Stage 5	497.7	1097.1	1594.8	436.5	8041	6.19%	1.14
Stage 6	505.6	1070.5	1576.1	444.7	8182.2	6.18%	1.14
Stage 7	502.5	1070.5	1573.1	433.3	7954.7	6.32%	1.16

Design Assumption:	Tipo Risultato:	Muro:	LEFT	Lato	RIGHT		
Nominal Stage	Riepilogo spinte						
	Vera effettiva	Pressione neutra	Vera Totale	Min ammissibile	Max ammissibile	Percentuale di resistenza massima	Vera / Attiva
	(kN/m)	(kN/m)	(kN/m)	(kN/m)	(kN/m)		
Stage 1	651.5	1280	1931.5	368.5	6842.3	9.52%	1.77
Stage 2	652.7	1161.3	1814	313.1	5738.2	11.37%	2.08
Stage 3	678	1045.3	1723.4	262.1	4745.2	14.29%	2.59
Stage 4	718.3	932.4	1650.7	215.6	3861	18.6%	3.33
Stage 5	771.9	822.9	1594.7	173.6	3082.8	25.04%	4.45
Stage 6	806.6	769.5	1576.1	154.2	2732.7	29.52%	5.23
Stage 7	803.6	769.5	1573.1	154.2	2732.7	29.41%	5.21



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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*          |
|                                                                                                                                           |
|                                                                                                                                           |
|                                                                                                                                           |
|                                                                                                                                           |
|          NewProject.BaseDesignSection_28.Nominal_63                                          |
|          Exe Time :24 May 2018      18:25:47                                              |
+-----+

```

INPUT FILE HAS BEEN GENERATED BY WALGEN PROGRAM

New Project

```

NO. OF NODAL POINTS (NUMNP) ..... 81
NO. OF COORDINATES (NCOORD)..... 2
NO. OF NODE DOFS (NDOF)..... 2
NO. OF EQUATIONS (NEQ)..... 162
NO. OF CONSTRAINTS CARDS (NVINC)..... 0
NO. OF ELEMENT GROUPS (NEG)..... 3
NO. OF SOLUTION STEPS (NSTE)..... 7
NO. OF ELEMENT SETS ATTACHED TO SLAVE NODES ... 0
NO. OF RECORD FROM WALGEN ..... 102
NO. OF LONG NAMES (LASTNAME) ..... 22
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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+-----+
|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|                               NewProject.BaseDesignSection_28.Nominal_63                       |
|                               Exe Time :24 May 2018      18:25:47                             |
+-----+
```

P R E P R O C E S S O R     D A T A

N O .   O F   C O M M A N D S     102

```
1 : UNIT m kN
2 : TITLE New Project
3 : DELTA 0.2
4 : option param itemax 40
5 : option control hinges 0 0.0001 0.001
6 : WALL LeftWall_32 0 -16 0 1
7 : SOIL 0_L LeftWall_32 -16 0 1 0
8 : SOIL 0_R LeftWall_32 -16 0 2 180
9 : LDATA Ug5_2_8_L_0 0 LeftWall_32
10 : ATREST 0.5 0.5 1
11 : WEIGHT 19 10 10
12 : PERMEABILITY 0.0001
13 : RESISTANCE 0 37
14 : YOUNG 5E+04 1.5E+05
15 : ENDL
16 : LDATA Ug6_741_743_L_0 -12 LeftWall_32
17 : ATREST 0.5 0.5 1
18 : WEIGHT 18.5 9 10
19 : PERMEABILITY 0.0001
20 : RESISTANCE 5 26
21 : YOUNG 3E+04 9E+04
22 : ENDL
23 : MATERIAL S355_114 2.1E+08
24 : MATERIAL C2530_104 3.148E+07
25 : BEAM WallElement_33 LeftWall_32 -16 0 C2530_104 0.8121 00 00 0
26 : STRIP LeftWall_32 1 6 1 11.75 0 5 45
27 : STEP Stage1_31
28 : CHANGE Ug5_2_8_L_0 U-FRICT=37 LeftWall_32
29 : CHANGE Ug5_2_8_L_0 D-FRICT=37 LeftWall_32
30 : CHANGE Ug5_2_8_L_0 U-KA=0.249 LeftWall_32
31 : CHANGE Ug5_2_8_L_0 U-KP=6.738 LeftWall_32
32 : CHANGE Ug5_2_8_L_0 D-KA=0.249 LeftWall_32
33 : CHANGE Ug5_2_8_L_0 D-KP=6.738 LeftWall_32
34 : CHANGE Ug6_741_743_L_0 U-FRICT=26 LeftWall_32
35 : CHANGE Ug6_741_743_L_0 D-FRICT=26 LeftWall_32
36 : CHANGE Ug6_741_743_L_0 U-KA=0.39 LeftWall_32
37 : CHANGE Ug6_741_743_L_0 U-KP=3.404 LeftWall_32
38 : CHANGE Ug6_741_743_L_0 D-KA=0.39 LeftWall_32
39 : CHANGE Ug6_741_743_L_0 D-KP=3.404 LeftWall_32
40 : CHANGE Ug5_2_8_L_0 U-COHE=0 LeftWall_32
41 : CHANGE Ug5_2_8_L_0 D-COHE=0 LeftWall_32
42 : CHANGE Ug6_741_743_L_0 U-COHE=5 LeftWall_32
43 : CHANGE Ug6_741_743_L_0 D-COHE=5 LeftWall_32
44 : SETWALL LeftWall_32
45 : GEOM 0 0
46 : WATER 0 0 -16 0 0
47 : ADD WallElement_33
48 : ENDSTEP
49 : STEP Stage2_158
50 : CHANGE Ug5_2_8_L_0 D-FRICT=37 LeftWall_32
51 : CHANGE Ug6_741_743_L_0 D-FRICT=26 LeftWall_32
52 : CHANGE Ug5_2_8_L_0 D-COHE=0 LeftWall_32
53 : CHANGE Ug6_741_743_L_0 D-COHE=5 LeftWall_32
54 : SETWALL LeftWall_32
55 : GEOM 0 -1
56 : WATER 0 1 -16 0 0
57 : ENDSTEP
58 : STEP Stage3_255
59 : CHANGE Ug5_2_8_L_0 D-FRICT=37 LeftWall_32
60 : CHANGE Ug6_741_743_L_0 D-FRICT=26 LeftWall_32
61 : CHANGE Ug5_2_8_L_0 D-COHE=0 LeftWall_32
62 : CHANGE Ug6_741_743_L_0 D-COHE=5 LeftWall_32
63 : SETWALL LeftWall_32
64 : GEOM 0 -2
65 : WATER 0 2 -16 0 0
66 : ENDSTEP
67 : STEP Stage4_352
68 : CHANGE Ug5_2_8_L_0 D-FRICT=37 LeftWall_32
69 : CHANGE Ug6_741_743_L_0 D-FRICT=26 LeftWall_32
70 : CHANGE Ug5_2_8_L_0 D-COHE=0 LeftWall_32
71 : CHANGE Ug6_741_743_L_0 D-COHE=5 LeftWall_32
72 : SETWALL LeftWall_32
73 : GEOM 0 -3
74 : WATER 0 3 -16 0 0
75 : ENDSTEP
76 : STEP Stage5_449
77 : CHANGE Ug5_2_8_L_0 D-FRICT=37 LeftWall_32
78 : CHANGE Ug6_741_743_L_0 D-FRICT=26 LeftWall_32
```

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79 : CHANGE Ug5_2_8_L_0 D-COHE=0 LeftWall_32
80 : CHANGE Ug6_741_743_L_0 D-COHE=5 LeftWall_32
81 : SETWALL LeftWall_32
82 : GEOM 0 -4
83 : WATER 0 4 -16 0 0
84 : ENDSTEP
85 : STEP Stage6_546
86 : CHANGE Ug5_2_8_L_0 D-FRICT=37 LeftWall_32
87 : CHANGE Ug6_741_743_L_0 D-FRICT=26 LeftWall_32
88 : CHANGE Ug5_2_8_L_0 D-COHE=0 LeftWall_32
89 : CHANGE Ug6_741_743_L_0 D-COHE=5 LeftWall_32
90 : SETWALL LeftWall_32
91 : GEOM 0 -4.5
92 : WATER 0 4.5 -16 0 0
93 : ENDSTEP
94 : STEP Stage7_643
95 : CHANGE Ug5_2_8_L_0 D-FRICT=37 LeftWall_32
96 : CHANGE Ug6_741_743_L_0 D-FRICT=26 LeftWall_32
97 : CHANGE Ug5_2_8_L_0 D-COHE=0 LeftWall_32
98 : CHANGE Ug6_741_743_L_0 D-COHE=5 LeftWall_32
99 : SETWALL LeftWall_32
100 : GEOM 0 -4.5
101 : WATER 0 4.5 -16 0 0
102 : ENDSTEP
```



```

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|                                                                                               |
|          NewProject.BaseDesignSection_28.Nominal_63  |
|          Exe Time :24 May 2018          18:25:47    |
+-----+

```

ELEMENT GROUP NO. 1

```

0_L
  5 81 0 1 0 0 0 0 0 0 0 0 0 0 2 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
7 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

```

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	1	0.2000	0.000	0.000	0.000	1.000
22	22	1	0.2000	0.000	0.000	0.000	1.000
23	23	1	0.2000	0.000	0.000	0.000	1.000
24	24	1	0.2000	0.000	0.000	0.000	1.000
25	25	1	0.2000	0.000	0.000	0.000	1.000
26	26	1	0.2000	0.000	0.000	0.000	1.000
27	27	1	0.2000	0.000	0.000	0.000	1.000
28	28	1	0.2000	0.000	0.000	0.000	1.000
29	29	1	0.2000	0.000	0.000	0.000	1.000
30	30	1	0.2000	0.000	0.000	0.000	1.000
31	31	1	0.2000	0.000	0.000	0.000	1.000
32	32	1	0.2000	0.000	0.000	0.000	1.000
33	33	1	0.2000	0.000	0.000	0.000	1.000
34	34	1	0.2000	0.000	0.000	0.000	1.000
35	35	1	0.2000	0.000	0.000	0.000	1.000
36	36	1	0.2000	0.000	0.000	0.000	1.000
37	37	1	0.2000	0.000	0.000	0.000	1.000
38	38	1	0.2000	0.000	0.000	0.000	1.000
39	39	1	0.2000	0.000	0.000	0.000	1.000
40	40	1	0.2000	0.000	0.000	0.000	1.000
41	41	1	0.2000	0.000	0.000	0.000	1.000
42	42	1	0.2000	0.000	0.000	0.000	1.000
43	43	1	0.2000	0.000	0.000	0.000	1.000
44	44	1	0.2000	0.000	0.000	0.000	1.000
45	45	1	0.2000	0.000	0.000	0.000	1.000

46	46	1	0.2000	0.000	0.000	0.000	0.000	1.000
47	47	1	0.2000	0.000	0.000	0.000	0.000	1.000
48	48	1	0.2000	0.000	0.000	0.000	0.000	1.000
49	49	1	0.2000	0.000	0.000	0.000	0.000	1.000
50	50	1	0.2000	0.000	0.000	0.000	0.000	1.000
51	51	1	0.2000	0.000	0.000	0.000	0.000	1.000
52	52	1	0.2000	0.000	0.000	0.000	0.000	1.000
53	53	1	0.2000	0.000	0.000	0.000	0.000	1.000
54	54	1	0.2000	0.000	0.000	0.000	0.000	1.000
55	55	1	0.2000	0.000	0.000	0.000	0.000	1.000
56	56	1	0.2000	0.000	0.000	0.000	0.000	1.000
57	57	1	0.2000	0.000	0.000	0.000	0.000	1.000
58	58	1	0.2000	0.000	0.000	0.000	0.000	1.000
59	59	1	0.2000	0.000	0.000	0.000	0.000	1.000
60	60	1	0.2000	0.000	0.000	0.000	0.000	1.000
61	61	1	0.2000	0.000	0.000	0.000	0.000	1.000
62	62	2	0.2000	0.000	0.000	0.000	0.000	1.000
63	63	2	0.2000	0.000	0.000	0.000	0.000	1.000
64	64	2	0.2000	0.000	0.000	0.000	0.000	1.000
65	65	2	0.2000	0.000	0.000	0.000	0.000	1.000
66	66	2	0.2000	0.000	0.000	0.000	0.000	1.000
67	67	2	0.2000	0.000	0.000	0.000	0.000	1.000
68	68	2	0.2000	0.000	0.000	0.000	0.000	1.000
69	69	2	0.2000	0.000	0.000	0.000	0.000	1.000
70	70	2	0.2000	0.000	0.000	0.000	0.000	1.000
71	71	2	0.2000	0.000	0.000	0.000	0.000	1.000
72	72	2	0.2000	0.000	0.000	0.000	0.000	1.000
73	73	2	0.2000	0.000	0.000	0.000	0.000	1.000
74	74	2	0.2000	0.000	0.000	0.000	0.000	1.000
75	75	2	0.2000	0.000	0.000	0.000	0.000	1.000
76	76	2	0.2000	0.000	0.000	0.000	0.000	1.000
77	77	2	0.2000	0.000	0.000	0.000	0.000	1.000
78	78	2	0.2000	0.000	0.000	0.000	0.000	1.000
79	79	2	0.2000	0.000	0.000	0.000	0.000	1.000
80	80	2	0.2000	0.000	0.000	0.000	0.000	1.000
81	81	2	0.1000	0.000	0.000	0.000	0.000	1.000



```

+-----+
|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|                                                                                               |
|          NewProject.BaseDesignSection_28.Nominal_63  |
|          Exe Time :24 May 2018          18:25:47    |
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```

ELEMENT GROUP NO. 2

```

0_R
  5 81 0 1 0 0 0 0 0 0 0 0 0 0 2 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
7 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

```

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	1	0.2000	0.000	0.000	0.000	2.000
22	22	1	0.2000	0.000	0.000	0.000	2.000
23	23	1	0.2000	0.000	0.000	0.000	2.000
24	24	1	0.2000	0.000	0.000	0.000	2.000
25	25	1	0.2000	0.000	0.000	0.000	2.000
26	26	1	0.2000	0.000	0.000	0.000	2.000
27	27	1	0.2000	0.000	0.000	0.000	2.000
28	28	1	0.2000	0.000	0.000	0.000	2.000
29	29	1	0.2000	0.000	0.000	0.000	2.000
30	30	1	0.2000	0.000	0.000	0.000	2.000
31	31	1	0.2000	0.000	0.000	0.000	2.000
32	32	1	0.2000	0.000	0.000	0.000	2.000
33	33	1	0.2000	0.000	0.000	0.000	2.000
34	34	1	0.2000	0.000	0.000	0.000	2.000
35	35	1	0.2000	0.000	0.000	0.000	2.000
36	36	1	0.2000	0.000	0.000	0.000	2.000
37	37	1	0.2000	0.000	0.000	0.000	2.000
38	38	1	0.2000	0.000	0.000	0.000	2.000
39	39	1	0.2000	0.000	0.000	0.000	2.000
40	40	1	0.2000	0.000	0.000	0.000	2.000
41	41	1	0.2000	0.000	0.000	0.000	2.000
42	42	1	0.2000	0.000	0.000	0.000	2.000
43	43	1	0.2000	0.000	0.000	0.000	2.000
44	44	1	0.2000	0.000	0.000	0.000	2.000
45	45	1	0.2000	0.000	0.000	0.000	2.000

46	46	1	0.2000	0.000	0.000	0.000	0.000	2.000
47	47	1	0.2000	0.000	0.000	0.000	0.000	2.000
48	48	1	0.2000	0.000	0.000	0.000	0.000	2.000
49	49	1	0.2000	0.000	0.000	0.000	0.000	2.000
50	50	1	0.2000	0.000	0.000	0.000	0.000	2.000
51	51	1	0.2000	0.000	0.000	0.000	0.000	2.000
52	52	1	0.2000	0.000	0.000	0.000	0.000	2.000
53	53	1	0.2000	0.000	0.000	0.000	0.000	2.000
54	54	1	0.2000	0.000	0.000	0.000	0.000	2.000
55	55	1	0.2000	0.000	0.000	0.000	0.000	2.000
56	56	1	0.2000	0.000	0.000	0.000	0.000	2.000
57	57	1	0.2000	0.000	0.000	0.000	0.000	2.000
58	58	1	0.2000	0.000	0.000	0.000	0.000	2.000
59	59	1	0.2000	0.000	0.000	0.000	0.000	2.000
60	60	1	0.2000	0.000	0.000	0.000	0.000	2.000
61	61	1	0.2000	0.000	0.000	0.000	0.000	2.000
62	62	2	0.2000	0.000	0.000	0.000	0.000	2.000
63	63	2	0.2000	0.000	0.000	0.000	0.000	2.000
64	64	2	0.2000	0.000	0.000	0.000	0.000	2.000
65	65	2	0.2000	0.000	0.000	0.000	0.000	2.000
66	66	2	0.2000	0.000	0.000	0.000	0.000	2.000
67	67	2	0.2000	0.000	0.000	0.000	0.000	2.000
68	68	2	0.2000	0.000	0.000	0.000	0.000	2.000
69	69	2	0.2000	0.000	0.000	0.000	0.000	2.000
70	70	2	0.2000	0.000	0.000	0.000	0.000	2.000
71	71	2	0.2000	0.000	0.000	0.000	0.000	2.000
72	72	2	0.2000	0.000	0.000	0.000	0.000	2.000
73	73	2	0.2000	0.000	0.000	0.000	0.000	2.000
74	74	2	0.2000	0.000	0.000	0.000	0.000	2.000
75	75	2	0.2000	0.000	0.000	0.000	0.000	2.000
76	76	2	0.2000	0.000	0.000	0.000	0.000	2.000
77	77	2	0.2000	0.000	0.000	0.000	0.000	2.000
78	78	2	0.2000	0.000	0.000	0.000	0.000	2.000
79	79	2	0.2000	0.000	0.000	0.000	0.000	2.000
80	80	2	0.2000	0.000	0.000	0.000	0.000	2.000
81	81	2	0.1000	0.000	0.000	0.000	0.000	2.000



39	39	40	1	0.000	0.000	0.8121	0.000	0.000
40	40	41	1	0.000	0.000	0.8121	0.000	0.000
41	41	42	1	0.000	0.000	0.8121	0.000	0.000
42	42	43	1	0.000	0.000	0.8121	0.000	0.000
43	43	44	1	0.000	0.000	0.8121	0.000	0.000
44	44	45	1	0.000	0.000	0.8121	0.000	0.000
45	45	46	1	0.000	0.000	0.8121	0.000	0.000
46	46	47	1	0.000	0.000	0.8121	0.000	0.000
47	47	48	1	0.000	0.000	0.8121	0.000	0.000
48	48	49	1	0.000	0.000	0.8121	0.000	0.000
49	49	50	1	0.000	0.000	0.8121	0.000	0.000
50	50	51	1	0.000	0.000	0.8121	0.000	0.000
51	51	52	1	0.000	0.000	0.8121	0.000	0.000
52	52	53	1	0.000	0.000	0.8121	0.000	0.000
53	53	54	1	0.000	0.000	0.8121	0.000	0.000
54	54	55	1	0.000	0.000	0.8121	0.000	0.000
55	55	56	1	0.000	0.000	0.8121	0.000	0.000
56	56	57	1	0.000	0.000	0.8121	0.000	0.000
57	57	58	1	0.000	0.000	0.8121	0.000	0.000
58	58	59	1	0.000	0.000	0.8121	0.000	0.000
59	59	60	1	0.000	0.000	0.8121	0.000	0.000
60	60	61	1	0.000	0.000	0.8121	0.000	0.000
61	61	62	1	0.000	0.000	0.8121	0.000	0.000
62	62	63	1	0.000	0.000	0.8121	0.000	0.000
63	63	64	1	0.000	0.000	0.8121	0.000	0.000
64	64	65	1	0.000	0.000	0.8121	0.000	0.000
65	65	66	1	0.000	0.000	0.8121	0.000	0.000
66	66	67	1	0.000	0.000	0.8121	0.000	0.000
67	67	68	1	0.000	0.000	0.8121	0.000	0.000
68	68	69	1	0.000	0.000	0.8121	0.000	0.000
69	69	70	1	0.000	0.000	0.8121	0.000	0.000
70	70	71	1	0.000	0.000	0.8121	0.000	0.000
71	71	72	1	0.000	0.000	0.8121	0.000	0.000
72	72	73	1	0.000	0.000	0.8121	0.000	0.000
73	73	74	1	0.000	0.000	0.8121	0.000	0.000
74	74	75	1	0.000	0.000	0.8121	0.000	0.000
75	75	76	1	0.000	0.000	0.8121	0.000	0.000
76	76	77	1	0.000	0.000	0.8121	0.000	0.000
77	77	78	1	0.000	0.000	0.8121	0.000	0.000
78	78	79	1	0.000	0.000	0.8121	0.000	0.000
79	79	80	1	0.000	0.000	0.8121	0.000	0.000
80	80	81	1	0.000	0.000	0.8121	0.000	0.000

```
+-----+
|          PARATIEPLUS(TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|                               NewProject.BaseDesignSection_28.Nominal_63                       |
|                               Exe Time :24 May 2018      18:25:47                             |
+-----+
```

```
NO. OF NODAL LOADS (NLOAD) ..... 0
NO. OF LOAD CURVES (NLCUR) ..... 14
MAXIMUM POINTS/LCURVE (NPTM)..... 5
```

```

+-----+
|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*          |
|                                                                                                                                            |
|                                                                                                                                            |
|                                                                                                                                            |
|                                                                                                                                            |
|                                                                                                                                            |
|                                                                                                                                            |
+-----+

```

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
8.00000	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
8.00000	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
8.00000	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
8.00000	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
8.00000	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
8.00000	0.0000E+00

LOAD FUNCTION NUMBER = 7  
NUMBER OF TIME POINTS = 5

TIME VALUE	FUNCTION
0.00000	0.0000E+00
6.80000	0.0000E+00
7.00000	0.1000E+01
7.20000	0.0000E+00
8.00000	0.0000E+00

LOAD FUNCTION NUMBER = 8  
NUMBER OF TIME POINTS = 4

TIME VALUE	FUNCTION
0.00000	0.0000E+00
0.80000	0.0000E+00
1.00000	0.1000E+01
8.00000	0.1000E+01

LOAD FUNCTION NUMBER = 9  
NUMBER OF TIME POINTS = 4

TIME VALUE	FUNCTION
0.00000	0.0000E+00
1.80000	0.0000E+00
2.00000	0.1000E+01
8.00000	0.1000E+01

LOAD FUNCTION NUMBER = 10  
NUMBER OF TIME POINTS = 4

TIME VALUE	FUNCTION
0.00000	0.0000E+00
2.80000	0.0000E+00
3.00000	0.1000E+01
8.00000	0.1000E+01

LOAD FUNCTION NUMBER = 11  
NUMBER OF TIME POINTS = 4

TIME VALUE	FUNCTION
0.00000	0.0000E+00
3.80000	0.0000E+00
4.00000	0.1000E+01
8.00000	0.1000E+01

LOAD FUNCTION NUMBER = 12  
NUMBER OF TIME POINTS = 4

TIME VALUE	FUNCTION
0.00000	0.0000E+00
4.80000	0.0000E+00
5.00000	0.1000E+01
8.00000	0.1000E+01

LOAD FUNCTION NUMBER = 13  
NUMBER OF TIME POINTS = 4

TIME VALUE	FUNCTION
0.00000	0.0000E+00
5.80000	0.0000E+00
6.00000	0.1000E+01
8.00000	0.1000E+01

LOAD FUNCTION NUMBER = 14  
NUMBER OF TIME POINTS = 4

TIME VALUE	FUNCTION
0.00000	0.0000E+00

6.80000	0.0000E+00
7.00000	0.1000E+01
8.00000	0.1000E+01

NO. OF DISTRIBUTED LOAD CARDS      0



```

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION *Build date:Jul 11, 2017*          |
|                                                                                                                                            |
|                                                                                                                                            |
|          NewProject.BaseDesignSection_28.Nominal_63                                                                                       |
|          Exe Time :24 May 2018          18:25:47                                                                                           |
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```

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
STEP	7	TOTAL APPLIED LOAD IN DIR.	2	Y-DISPL.F	0.0000000
STEP	7	TOTAL APPLIED LOAD IN DIR.	4	X-ROT. F	0.0000000

LOAD INPUT SECTION COMPLETED

```
+-----+
|          PARATIEPLUS(TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION  *Build date:Jul 11, 2017*          |
|                                                                                                                                            |
|                                                                                                                                            |
|                                                                                                                                            |
|          NewProject.BaseDesignSection_28.Nominal_63                                                                                       |
|          Exe Time :24 May 2018          18:25:47                                                                                           |
+-----+
```

```
NO. OF LAYERS ..... 2
NO. OF DATA PER LAYER..... 100
```

```

+-----+
|                PARATIEPLUS(TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION *Build date:Jul 11, 2017* |
|                                                                                                 |
|                                                                                                 |
|                NewProject.BaseDesignSection_28.Nominal_63 |
|                Exe Time :24 May 2018  18:25:47 |
+-----+

```

LAYER DESCRIPTORS FOR STEP NO. 1

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

```

ITEM NO. 1<NAME >= 18.000 (BOTH WALLS)
ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
ITEM NO. 3<LEVEL >= 0.0000 (BOTH WALLS)
ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)
ITEM NO. 5<GAMMAD >= 19.000 (BOTH WALLS)
ITEM NO. 6<GAMMAB >= 10.000 (BOTH WALLS)
ITEM NO. 7<GAMMAW >= 10.000 (BOTH WALLS)
ITEM NO. 9<U-FRICT >= 37.000 (BOTH WALLS)
ITEM NO. 10<U-KA >= 0.24900 WALL NO. 1
ITEM NO. 11<U-KP >= 6.7380 WALL NO. 1
ITEM NO. 12<K0-NC >= 0.50000 (BOTH WALLS)
ITEM NO. 13<NEXP >= 0.50000 (BOTH WALLS)
ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)
ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)
ITEM NO. 17<EVC >= 50000. (BOTH WALLS)
ITEM NO. 18<EUR >= 0.15000E+06 (BOTH WALLS)
ITEM NO. 27<U-PERM >= 0.10000E-03 (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 >= 37.000 (BOTH WALLS)
ITEM NO. 60<D-KA >= 0.24900 WALL NO. 1
ITEM NO. 61<D-KP >= 6.7380 WALL NO. 1
ITEM NO. 77<D-PERM >= 0.10000E-03 (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 >= 19.000 (BOTH WALLS)
ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
ITEM NO. 3<LEVEL >= -12.000 (BOTH WALLS)
ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)
ITEM NO. 5<GAMMAD >= 18.500 (BOTH WALLS)
ITEM NO. 6<GAMMAB >= 9.0000 (BOTH WALLS)
ITEM NO. 7<GAMMAW >= 10.000 (BOTH WALLS)
ITEM NO. 8<U-COHE >= 5.0000 (BOTH WALLS)
ITEM NO. 9<U-FRICT >= 26.000 (BOTH WALLS)
ITEM NO. 10<U-KA >= 0.39000 WALL NO. 1
ITEM NO. 11<U-KP >= 3.4040 WALL NO. 1
ITEM NO. 12<K0-NC >= 0.50000 (BOTH WALLS)
ITEM NO. 13<NEXP >= 0.50000 (BOTH WALLS)
ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)
ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)
ITEM NO. 17<EVC >= 30000. (BOTH WALLS)
ITEM NO. 18<EUR >= 90000. (BOTH WALLS)
ITEM NO. 27<U-PERM >= 0.10000E-03 (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 >= 5.0000 (BOTH WALLS)
ITEM NO. 59<D-FRICT >= 26.000 (BOTH WALLS)
ITEM NO. 60<D-KA >= 0.39000 WALL NO. 1
ITEM NO. 61<D-KP >= 3.4040 WALL NO. 1
ITEM NO. 77<D-PERM >= 0.10000E-03 (BOTH WALLS)

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LAYER DESCRIPTORS FOR STEP NO. 2

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

```

ITEM NO. 1<NAME >= 18.000 (BOTH WALLS)
ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
ITEM NO. 3<LEVEL >= 0.0000 (BOTH WALLS)
ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)
ITEM NO. 5<GAMMAD >= 19.000 (BOTH WALLS)
ITEM NO. 6<GAMMAB >= 10.000 (BOTH WALLS)
ITEM NO. 7<GAMMAW >= 10.000 (BOTH WALLS)
ITEM NO. 9<U-FRICT >= 37.000 (BOTH WALLS)
ITEM NO. 10<U-KA >= 0.24900 WALL NO. 1
ITEM NO. 11<U-KP >= 6.7380 WALL NO. 1
ITEM NO. 12<K0-NC >= 0.50000 (BOTH WALLS)
ITEM NO. 13<NEXP >= 0.50000 (BOTH WALLS)
ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)
ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)
ITEM NO. 17<EVC >= 50000. (BOTH WALLS)
ITEM NO. 18<EUR >= 0.15000E+06 (BOTH WALLS)
ITEM NO. 27<U-PERM >= 0.10000E-03 (BOTH WALLS)
ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)

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ITEM NO. 59<D-FRICT >= 37.000 (BOTH WALLS)  
ITEM NO. 60<D-KA >= 0.24900 WALL NO. 1  
ITEM NO. 61<D-KP >= 6.7380 WALL NO. 1  
ITEM NO. 77<D-PERM >= 0.10000E-03 (BOTH WALLS)

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

ITEM NO. 1<NAME >= 19.000 (BOTH WALLS)  
ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)  
ITEM NO. 3<LEVEL >= -12.000 (BOTH WALLS)  
ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)  
ITEM NO. 5<GAMMAD >= 18.500 (BOTH WALLS)  
ITEM NO. 6<GAMMAB >= 9.0000 (BOTH WALLS)  
ITEM NO. 7<GAMMAW >= 10.000 (BOTH WALLS)  
ITEM NO. 8<U-COHE >= 5.0000 (BOTH WALLS)  
ITEM NO. 9<U-FRICT >= 26.000 (BOTH WALLS)  
ITEM NO. 10<U-KA >= 0.39000 WALL NO. 1  
ITEM NO. 11<U-KP >= 3.4040 WALL NO. 1  
ITEM NO. 12<K0-NC >= 0.50000 (BOTH WALLS)  
ITEM NO. 13<NEXP >= 0.50000 (BOTH WALLS)  
ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)  
ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)  
ITEM NO. 17<EVC >= 30000. (BOTH WALLS)  
ITEM NO. 18<EUR >= 90000. (BOTH WALLS)  
ITEM NO. 27<U-PERM >= 0.10000E-03 (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 >= 5.0000 (BOTH WALLS)  
ITEM NO. 59<D-FRICT >= 26.000 (BOTH WALLS)  
ITEM NO. 60<D-KA >= 0.39000 WALL NO. 1  
ITEM NO. 61<D-KP >= 3.4040 WALL NO. 1  
ITEM NO. 77<D-PERM >= 0.10000E-03 (BOTH WALLS)

LAYER DESCRIPTORS FOR STEP NO. 3

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

ITEM NO. 1<NAME >= 18.000 (BOTH WALLS)  
ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)  
ITEM NO. 3<LEVEL >= 0.0000 (BOTH WALLS)  
ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)  
ITEM NO. 5<GAMMAD >= 19.000 (BOTH WALLS)  
ITEM NO. 6<GAMMAB >= 10.000 (BOTH WALLS)  
ITEM NO. 7<GAMMAW >= 10.000 (BOTH WALLS)  
ITEM NO. 9<U-FRICT >= 37.000 (BOTH WALLS)  
ITEM NO. 10<U-KA >= 0.24900 WALL NO. 1  
ITEM NO. 11<U-KP >= 6.7380 WALL NO. 1  
ITEM NO. 12<K0-NC >= 0.50000 (BOTH WALLS)  
ITEM NO. 13<NEXP >= 0.50000 (BOTH WALLS)  
ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)  
ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)  
ITEM NO. 17<EVC >= 50000. (BOTH WALLS)  
ITEM NO. 18<EUR >= 0.15000E+06 (BOTH WALLS)  
ITEM NO. 27<U-PERM >= 0.10000E-03 (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 >= 37.000 (BOTH WALLS)  
ITEM NO. 60<D-KA >= 0.24900 WALL NO. 1  
ITEM NO. 61<D-KP >= 6.7380 WALL NO. 1  
ITEM NO. 77<D-PERM >= 0.10000E-03 (BOTH WALLS)

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

ITEM NO. 1<NAME >= 19.000 (BOTH WALLS)  
ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)  
ITEM NO. 3<LEVEL >= -12.000 (BOTH WALLS)  
ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)  
ITEM NO. 5<GAMMAD >= 18.500 (BOTH WALLS)  
ITEM NO. 6<GAMMAB >= 9.0000 (BOTH WALLS)  
ITEM NO. 7<GAMMAW >= 10.000 (BOTH WALLS)  
ITEM NO. 8<U-COHE >= 5.0000 (BOTH WALLS)  
ITEM NO. 9<U-FRICT >= 26.000 (BOTH WALLS)  
ITEM NO. 10<U-KA >= 0.39000 WALL NO. 1  
ITEM NO. 11<U-KP >= 3.4040 WALL NO. 1  
ITEM NO. 12<K0-NC >= 0.50000 (BOTH WALLS)  
ITEM NO. 13<NEXP >= 0.50000 (BOTH WALLS)  
ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)  
ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)  
ITEM NO. 17<EVC >= 30000. (BOTH WALLS)  
ITEM NO. 18<EUR >= 90000. (BOTH WALLS)  
ITEM NO. 27<U-PERM >= 0.10000E-03 (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 >= 5.0000 (BOTH WALLS)  
ITEM NO. 59<D-FRICT >= 26.000 (BOTH WALLS)  
ITEM NO. 60<D-KA >= 0.39000 WALL NO. 1  
ITEM NO. 61<D-KP >= 3.4040 WALL NO. 1  
ITEM NO. 77<D-PERM >= 0.10000E-03 (BOTH WALLS)

LAYER DESCRIPTORS FOR STEP NO. 4

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

ITEM NO. 1<NAME >= 18.000 (BOTH WALLS)  
 ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)  
 ITEM NO. 3<LEVEL >= 0.0000 (BOTH WALLS)  
 ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)  
 ITEM NO. 5<GAMMAD >= 19.000 (BOTH WALLS)  
 ITEM NO. 6<GAMMAB >= 10.000 (BOTH WALLS)  
 ITEM NO. 7<GAMMAW >= 10.000 (BOTH WALLS)  
 ITEM NO. 9<U-FRICT >= 37.000 (BOTH WALLS)  
 ITEM NO. 10<U-KA >= 0.24900 WALL NO. 1  
 ITEM NO. 11<U-KP >= 6.7380 WALL NO. 1  
 ITEM NO. 12<K0-NC >= 0.50000 (BOTH WALLS)  
 ITEM NO. 13<NEXP >= 0.50000 (BOTH WALLS)  
 ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)  
 ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)  
 ITEM NO. 17<EVC >= 50000. (BOTH WALLS)  
 ITEM NO. 18<EUR >= 0.15000E+06 (BOTH WALLS)  
 ITEM NO. 27<U-PERM >= 0.10000E-03 (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 >= 37.000 (BOTH WALLS)  
 ITEM NO. 60<D-KA >= 0.24900 WALL NO. 1  
 ITEM NO. 61<D-KP >= 6.7380 WALL NO. 1  
 ITEM NO. 77<D-PERM >= 0.10000E-03 (BOTH WALLS)

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

ITEM NO. 1<NAME >= 19.000 (BOTH WALLS)  
 ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)  
 ITEM NO. 3<LEVEL >= -12.000 (BOTH WALLS)  
 ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)  
 ITEM NO. 5<GAMMAD >= 18.500 (BOTH WALLS)  
 ITEM NO. 6<GAMMAB >= 9.0000 (BOTH WALLS)  
 ITEM NO. 7<GAMMAW >= 10.000 (BOTH WALLS)  
 ITEM NO. 8<U-COHE >= 5.0000 (BOTH WALLS)  
 ITEM NO. 9<U-FRICT >= 26.000 (BOTH WALLS)  
 ITEM NO. 10<U-KA >= 0.39000 WALL NO. 1  
 ITEM NO. 11<U-KP >= 3.4040 WALL NO. 1  
 ITEM NO. 12<K0-NC >= 0.50000 (BOTH WALLS)  
 ITEM NO. 13<NEXP >= 0.50000 (BOTH WALLS)  
 ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)  
 ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)  
 ITEM NO. 17<EVC >= 30000. (BOTH WALLS)  
 ITEM NO. 18<EUR >= 90000. (BOTH WALLS)  
 ITEM NO. 27<U-PERM >= 0.10000E-03 (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 >= 5.0000 (BOTH WALLS)  
 ITEM NO. 59<D-FRICT >= 26.000 (BOTH WALLS)  
 ITEM NO. 60<D-KA >= 0.39000 WALL NO. 1  
 ITEM NO. 61<D-KP >= 3.4040 WALL NO. 1  
 ITEM NO. 77<D-PERM >= 0.10000E-03 (BOTH WALLS)

LAYER DESCRIPTORS FOR STEP NO. 5

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

ITEM NO. 1<NAME >= 18.000 (BOTH WALLS)  
 ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)  
 ITEM NO. 3<LEVEL >= 0.0000 (BOTH WALLS)  
 ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)  
 ITEM NO. 5<GAMMAD >= 19.000 (BOTH WALLS)  
 ITEM NO. 6<GAMMAB >= 10.000 (BOTH WALLS)  
 ITEM NO. 7<GAMMAW >= 10.000 (BOTH WALLS)  
 ITEM NO. 9<U-FRICT >= 37.000 (BOTH WALLS)  
 ITEM NO. 10<U-KA >= 0.24900 WALL NO. 1  
 ITEM NO. 11<U-KP >= 6.7380 WALL NO. 1  
 ITEM NO. 12<K0-NC >= 0.50000 (BOTH WALLS)  
 ITEM NO. 13<NEXP >= 0.50000 (BOTH WALLS)  
 ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)  
 ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)  
 ITEM NO. 17<EVC >= 50000. (BOTH WALLS)  
 ITEM NO. 18<EUR >= 0.15000E+06 (BOTH WALLS)  
 ITEM NO. 27<U-PERM >= 0.10000E-03 (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 >= 37.000 (BOTH WALLS)  
 ITEM NO. 60<D-KA >= 0.24900 WALL NO. 1  
 ITEM NO. 61<D-KP >= 6.7380 WALL NO. 1  
 ITEM NO. 77<D-PERM >= 0.10000E-03 (BOTH WALLS)

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

ITEM NO. 1<NAME >= 19.000 (BOTH WALLS)  
 ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)  
 ITEM NO. 3<LEVEL >= -12.000 (BOTH WALLS)  
 ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)

ITEM NO. 5<GAMMAD >= 18.500 (BOTH WALLS)  
ITEM NO. 6<GAMMAB >= 9.0000 (BOTH WALLS)  
ITEM NO. 7<GAMMAW >= 10.000 (BOTH WALLS)  
ITEM NO. 8<U-COHE >= 5.0000 (BOTH WALLS)  
ITEM NO. 9<U-FRICT >= 26.000 (BOTH WALLS)  
ITEM NO. 10<U-KA >= 0.39000 WALL NO. 1  
ITEM NO. 11<U-KP >= 3.4040 WALL NO. 1  
ITEM NO. 12<K0-NC >= 0.50000 (BOTH WALLS)  
ITEM NO. 13<NEXP >= 0.50000 (BOTH WALLS)  
ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)  
ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)  
ITEM NO. 17<EVC >= 30000. (BOTH WALLS)  
ITEM NO. 18<EUR >= 90000. (BOTH WALLS)  
ITEM NO. 27<U-PERM >= 0.10000E-03 (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 >= 5.0000 (BOTH WALLS)  
ITEM NO. 59<D-FRICT >= 26.000 (BOTH WALLS)  
ITEM NO. 60<D-KA >= 0.39000 WALL NO. 1  
ITEM NO. 61<D-KP >= 3.4040 WALL NO. 1  
ITEM NO. 77<D-PERM >= 0.10000E-03 (BOTH WALLS)

LAYER DESCRIPTORS FOR STEP NO. 6

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

ITEM NO. 1<NAME >= 18.000 (BOTH WALLS)  
ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)  
ITEM NO. 3<LEVEL >= 0.0000 (BOTH WALLS)  
ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)  
ITEM NO. 5<GAMMAD >= 19.000 (BOTH WALLS)  
ITEM NO. 6<GAMMAB >= 10.000 (BOTH WALLS)  
ITEM NO. 7<GAMMAW >= 10.000 (BOTH WALLS)  
ITEM NO. 9<U-FRICT >= 37.000 (BOTH WALLS)  
ITEM NO. 10<U-KA >= 0.24900 WALL NO. 1  
ITEM NO. 11<U-KP >= 6.7380 WALL NO. 1  
ITEM NO. 12<K0-NC >= 0.50000 (BOTH WALLS)  
ITEM NO. 13<NEXP >= 0.50000 (BOTH WALLS)  
ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)  
ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)  
ITEM NO. 17<EVC >= 50000. (BOTH WALLS)  
ITEM NO. 18<EUR >= 0.15000E+06 (BOTH WALLS)  
ITEM NO. 27<U-PERM >= 0.10000E-03 (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 >= 37.000 (BOTH WALLS)  
ITEM NO. 60<D-KA >= 0.24900 WALL NO. 1  
ITEM NO. 61<D-KP >= 6.7380 WALL NO. 1  
ITEM NO. 77<D-PERM >= 0.10000E-03 (BOTH WALLS)

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

ITEM NO. 1<NAME >= 19.000 (BOTH WALLS)  
ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)  
ITEM NO. 3<LEVEL >= -12.000 (BOTH WALLS)  
ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)  
ITEM NO. 5<GAMMAD >= 18.500 (BOTH WALLS)  
ITEM NO. 6<GAMMAB >= 9.0000 (BOTH WALLS)  
ITEM NO. 7<GAMMAW >= 10.000 (BOTH WALLS)  
ITEM NO. 8<U-COHE >= 5.0000 (BOTH WALLS)  
ITEM NO. 9<U-FRICT >= 26.000 (BOTH WALLS)  
ITEM NO. 10<U-KA >= 0.39000 WALL NO. 1  
ITEM NO. 11<U-KP >= 3.4040 WALL NO. 1  
ITEM NO. 12<K0-NC >= 0.50000 (BOTH WALLS)  
ITEM NO. 13<NEXP >= 0.50000 (BOTH WALLS)  
ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)  
ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)  
ITEM NO. 17<EVC >= 30000. (BOTH WALLS)  
ITEM NO. 18<EUR >= 90000. (BOTH WALLS)  
ITEM NO. 27<U-PERM >= 0.10000E-03 (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 >= 5.0000 (BOTH WALLS)  
ITEM NO. 59<D-FRICT >= 26.000 (BOTH WALLS)  
ITEM NO. 60<D-KA >= 0.39000 WALL NO. 1  
ITEM NO. 61<D-KP >= 3.4040 WALL NO. 1  
ITEM NO. 77<D-PERM >= 0.10000E-03 (BOTH WALLS)

LAYER DESCRIPTORS FOR STEP NO. 7

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 1 FOR STEP NO. 7

ITEM NO. 1<NAME >= 18.000 (BOTH WALLS)  
ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)  
ITEM NO. 3<LEVEL >= 0.0000 (BOTH WALLS)  
ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)  
ITEM NO. 5<GAMMAD >= 19.000 (BOTH WALLS)  
ITEM NO. 6<GAMMAB >= 10.000 (BOTH WALLS)  
ITEM NO. 7<GAMMAW >= 10.000 (BOTH WALLS)

ITEM NO.	9<U-FRICT	>= 37.000	(BOTH WALLS)	
ITEM NO.	10<U-KA	>= 0.24900	WALL NO.	1
ITEM NO.	11<U-KP	>= 6.7380	WALL NO.	1
ITEM NO.	12<K0-NC	>= 0.50000	(BOTH WALLS)	
ITEM NO.	13<NEXP	>= 0.50000	(BOTH WALLS)	
ITEM NO.	14<OCR	>= 1.0000	(BOTH WALLS)	
ITEM NO.	16<MODEL	>= 1.0000	(BOTH WALLS)	
ITEM NO.	17<EVC	>= 50000.	(BOTH WALLS)	
ITEM NO.	18<EUR	>= 0.15000E+06	(BOTH WALLS)	
ITEM NO.	27<U-PERM	>= 0.10000E-03	(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	>= 37.000	(BOTH WALLS)	
ITEM NO.	60<D-KA	>= 0.24900	WALL NO.	1
ITEM NO.	61<D-KP	>= 6.7380	WALL NO.	1
ITEM NO.	77<D-PERM	>= 0.10000E-03	(BOTH WALLS)	

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 2 FOR STEP NO. 7

ITEM NO.	1<NAME	>= 19.000	(BOTH WALLS)	
ITEM NO.	2<NATURE	>= 1.0000	(BOTH WALLS)	
ITEM NO.	3<LEVEL	>= -12.000	(BOTH WALLS)	
ITEM NO.	4<WALL	>= 1.0000	(BOTH WALLS)	
ITEM NO.	5<GAMMAD	>= 18.500	(BOTH WALLS)	
ITEM NO.	6<GAMMAB	>= 9.0000	(BOTH WALLS)	
ITEM NO.	7<GAMMAW	>= 10.000	(BOTH WALLS)	
ITEM NO.	8<U-COHE	>= 5.0000	(BOTH WALLS)	
ITEM NO.	9<U-FRICT	>= 26.000	(BOTH WALLS)	
ITEM NO.	10<U-KA	>= 0.39000	WALL NO.	1
ITEM NO.	11<U-KP	>= 3.4040	WALL NO.	1
ITEM NO.	12<K0-NC	>= 0.50000	(BOTH WALLS)	
ITEM NO.	13<NEXP	>= 0.50000	(BOTH WALLS)	
ITEM NO.	14<OCR	>= 1.0000	(BOTH WALLS)	
ITEM NO.	16<MODEL	>= 1.0000	(BOTH WALLS)	
ITEM NO.	17<EVC	>= 30000.	(BOTH WALLS)	
ITEM NO.	18<EUR	>= 90000.	(BOTH WALLS)	
ITEM NO.	27<U-PERM	>= 0.10000E-03	(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	>= 5.0000	(BOTH WALLS)	
ITEM NO.	59<D-FRICT	>= 26.000	(BOTH WALLS)	
ITEM NO.	60<D-KA	>= 0.39000	WALL NO.	1
ITEM NO.	61<D-KP	>= 3.4040	WALL NO.	1
ITEM NO.	77<D-PERM	>= 0.10000E-03	(BOTH WALLS)	

DEFAULT WATER UNIT WEIGHT = 10.000  
 AVERAGED ON 14 VALUES

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|                                                                                               |
|                                                                                               |
|                                                                                               |
|          NewProject.BaseDesignSection_28.Nominal_63  |
|          Exe Time :24 May 2018      18:25:47  |
+-----+

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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           0.000      0.000
Z-EXCAVATION   0.000      0.000
Z-WATER_TABLE  0.000      -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

```

STEP NO.      2

LEFT WALL      RIGHT WALL
Y              0.000      -0.9990E+30
Z-PC           0.000      0.000
Z-EXCAVATION   -1.000      0.000
Z-WATER_TABLE  0.000      -0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL  0.000      0.000
ZQ             0.000      0.000
DZW_OF_THE_WATER_TABLE  1.000      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

```

STEP NO.      3

LEFT WALL      RIGHT WALL

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Y	0.000	-0.9990E+30
Z-PC	0.000	0.000
Z-EXCAVATION	-2.000	0.000
Z-WATER_TABLE	0.000	-0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL	0.000	0.000
ZQ	0.000	0.000
DZW_OF_THE_WATER_TABLE	2.000	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		0.000	0.000
Z-EXCAVATION		-3.000	0.000
Z-WATER_TABLE		0.000	-0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL		0.000	0.000
ZQ		0.000	0.000
DZW_OF_THE_WATER_TABLE		3.000	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		0.000	0.000
Z-EXCAVATION		-4.000	0.000
Z-WATER_TABLE		0.000	-0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL		0.000	0.000
ZQ		0.000	0.000
DZW_OF_THE_WATER_TABLE		4.000	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	0.000	0.000
Z-EXCAVATION	-4.500	0.000
Z-WATER_TABLE	0.000	-0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL	0.000	0.000
ZQ	0.000	0.000
DZW_OF_THE_WATER_TABLE	4.500	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

STEP NO. 7

	LEFT WALL	RIGHT WALL
Y	0.000	-0.9990E+30
Z-PC	0.000	0.000
Z-EXCAVATION	-4.500	0.000
Z-WATER_TABLE	0.000	-0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL	0.000	0.000
ZQ	0.000	0.000
DZW_OF_THE_WATER_TABLE	4.500	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   7

LEFT-HAND WALL

LOWER LEVEL           -16.00000  
UPPER LEVEL            0.00000

RIGHT-HAND WALL

LOWER LEVEL           -16.00000  
UPPER LEVEL            0.00000

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION *Build date:Jul 11, 2017* |
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NewProject.BaseDesignSection_28.Nominal_63
Exe Time :24 May 2018      18:25:47

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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) 1.0000000000000000  
FOUNDATION WIDTH (B) 11.7500000000000000  
ZETA-F..... 0.0000000000000000E+000  
Q-F ..... 5.0000000000000000  
BETA ..... 45.0000000000000000  
BEHAVIOUR (0=FREE, 1=REFLECTING) 0.0000000000000000E+000

ELEMENT GROUPS BACKUP AREA CAN STAY IN CORE AT  
POSITION 4763

NO. OF D.P.W FOR THIS AREA 9554  
MAX NO. OF D.P.W. AVAILABLE 81920  
\*\* MAX NO OF ITERATIONS SET TO 40

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ITER      0  RNORM = 0.000      RMNORM= 0.000
             RINORM=0.1221E+06 RIMNOR= 0.000
             RENORM=0.2753E-27 REMNOR= 0.000      RATIO =0.4748E-16 TOLER =0.1000E-03      CONVERGED !
             RFMAX = 47.08      RMMAX = 0.000
             RTSMAL=0.1000E-03 RSMAL= 0.000
             RDT =0.1221E+06 RDR = 0.000
             RATIOI=0.4748E-16 RATIOR= 0.000
             MAX UN=0.7105E-14 IEQ= 143 NODE      72 DOF 1 Y-DISPL.F
             MIN UN=-.7105E-14 IEQ= 147 NODE      74 DOF 1 Y-DISPL.F
             NO. OF CONTACT CONSTRAINT VIOLATIONS 0

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ITER      1  RNORM = 0.000      RMNORM= 0.000
             RINORM=0.1221E+06 RIMNOR= 0.000
             RENORM=0.1697E-29 REMNOR=0.1582E-52 RATIO =0.3727E-17 TOLER =0.1000E-03      CONVERGED !
             RFMAX = 47.08      RMMAX = 0.000
             RTSMAL=0.1000E-03 RSMAL= 0.000
             RDT =0.1221E+06 RDR = 0.000
             RATIOI=0.3727E-17 RATIOR= 0.000
             MAX UN=0.5014E-17 IEQ= 119 NODE      60 DOF 1 Y-DISPL.F
             MIN UN=-.2372E-15 IEQ= 35 NODE      18 DOF 1 Y-DISPL.F
             NO. OF CONTACT CONSTRAINT VIOLATIONS 0

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ITER      2  RNORM = 0.000      RMNORM= 0.000
             RINORM=0.1221E+06 RIMNOR= 0.000
             RENORM=0.1468E-29 REMNOR=0.6218E-52 RATIO =0.3467E-17 TOLER =0.1000E-03      CONVERGED !
             RFMAX = 47.08      RMMAX = 0.000
             RTSMAL=0.1000E-03 RSMAL= 0.000
             RDT =0.1221E+06 RDR = 0.000
             RATIOI=0.3467E-17 RATIOR= 0.000
             MAX UN=0.2676E-26 IEQ= 158 NODE      79 DOF 2 X-ROT. F
             MIN UN=-.2058E-15 IEQ= 17 NODE      9 DOF 1 Y-DISPL.F
             NO. OF CONTACT CONSTRAINT VIOLATIONS 0

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|                               NewProject.BaseDesignSection_28.Nominal_63                       |
|                               Exe Time :24 May 2018      18:25:47                             |
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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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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION *Build date:Jul 11, 2017*          |
|                                                                                                                                           |
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|                                                                                                                                           |
|          NewProject.BaseDesignSection_28.Nominal_63          |
|          Exe Time :24 May 2018          18:25:47          |
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New Project

STRESS RESULTS FOR GROUP NO. 1

0\_L  
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 81  
CURRENT TIME IS 1.0000

HARDENING 2D SOIL ELEMENT

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

EL * FACTOR	FORCE UFACOR	DISPL-Y Peq	VERTICAL-P Su_a	HORIZON.-P Su_p	MAX-V-P LAYER	MAX-H-P	STATE	STIFFNESS	Z-LEVEL	PORE	E
1 D	0.000	2.4162E-20	0.000	0.000	0.000	0.000	V-C	4.7008E+04	0.000	0.000	
1.000	1.000	0.000	0.000	0.000	Ug5_2_8_L_0						
2 D	0.7141	2.4777E-20	2.008	1.570	2.008	1.570	V-C	4.7008E+04	-0.2000	2.000	
1.000	1.000	3.570	0.000	0.000	Ug5_2_8_L_0						
3 D	1.411	2.5391E-20	4.057	3.055	4.057	3.055	V-C	4.7008E+04	-0.4000	4.000	
1.000	1.000	7.055	0.000	0.000	Ug5_2_8_L_0						
4 D	2.083	2.6003E-20	6.158	4.413	6.158	4.413	V-C	4.7008E+04	-0.6000	6.000	
1.000	1.000	10.41	0.000	0.000	Ug5_2_8_L_0						
5 D	2.730	2.6609E-20	8.297	5.651	8.297	5.651	V-C	4.7008E+04	-0.8000	8.000	
1.000	1.000	13.65	0.000	0.000	Ug5_2_8_L_0						
6 D	3.359	2.7206E-20	10.45	6.797	10.45	6.797	V-C	4.7008E+04	-1.000	10.00	
1.000	1.000	16.80	0.000	0.000	Ug5_2_8_L_0						
7 D	3.976	2.7788E-20	12.61	7.879	12.61	7.879	V-C	4.7008E+04	-1.200	12.00	
1.000	1.000	19.88	0.000	0.000	Ug5_2_8_L_0						
8 D	4.584	2.8348E-20	14.87	8.919	14.87	8.919	V-C	4.7008E+04	-1.400	14.00	
1.000	1.000	22.92	0.000	0.000	Ug5_2_8_L_0						
9 D	5.186	2.8881E-20	17.18	9.931	17.18	9.931	V-C	4.7008E+04	-1.600	16.00	
1.000	1.000	25.93	0.000	0.000	Ug5_2_8_L_0						
10 D	5.785	2.9375E-20	19.26	10.93	19.26	10.93	V-C	4.7008E+04	-1.800	18.00	
1.000	1.000	28.93	0.000	0.000	Ug5_2_8_L_0						
11 D	6.381	2.9823E-20	21.48	11.91	21.48	11.91	V-C	4.7008E+04	-2.000	20.00	
1.000	1.000	31.91	0.000	0.000	Ug5_2_8_L_0						
12 D	6.976	3.0212E-20	23.67	12.88	23.67	12.88	V-C	4.7008E+04	-2.200	22.00	
1.000	1.000	34.88	0.000	0.000	Ug5_2_8_L_0						
13 D	7.570	3.0536E-20	25.71	13.85	25.71	13.85	V-C	4.7008E+04	-2.400	24.00	
1.000	1.000	37.85	0.000	0.000	Ug5_2_8_L_0						
14 D	8.163	3.0786E-20	27.86	14.82	27.86	14.82	V-C	4.7008E+04	-2.600	26.00	
1.000	1.000	40.82	0.000	0.000	Ug5_2_8_L_0						
15 D	8.756	3.0954E-20	29.98	15.78	29.98	15.78	V-C	4.7008E+04	-2.800	28.00	
1.000	1.000	43.78	0.000	0.000	Ug5_2_8_L_0						
16 D	9.349	3.1038E-20	32.10	16.74	32.10	16.74	V-C	4.7008E+04	-3.000	30.00	
1.000	1.000	46.74	0.000	0.000	Ug5_2_8_L_0						
17 D	9.941	3.1035E-20	34.11	17.70	34.11	17.70	V-C	4.7008E+04	-3.200	32.00	
1.000	1.000	49.70	0.000	0.000	Ug5_2_8_L_0						
18 D	10.53	3.0944E-20	36.20	18.66	36.20	18.66	V-C	4.7008E+04	-3.400	34.00	
1.000	1.000	52.66	0.000	0.000	Ug5_2_8_L_0						
19 D	11.13	3.0761E-20	38.29	19.63	38.29	19.63	V-C	4.7008E+04	-3.600	36.00	
1.000	1.000	55.63	0.000	0.000	Ug5_2_8_L_0						
20 D	11.72	3.0479E-20	40.29	20.59	40.29	20.59	V-C	4.7008E+04	-3.800	38.00	
1.000	1.000	58.59	0.000	0.000	Ug5_2_8_L_0						
21 D	12.31	3.0094E-20	42.36	21.55	42.36	21.55	V-C	4.7008E+04	-4.000	40.00	
1.000	1.000	61.55	0.000	0.000	Ug5_2_8_L_0						
22 D	12.90	2.9610E-20	44.43	22.51	44.43	22.51	V-C	4.7008E+04	-4.200	42.00	
1.000	1.000	64.51	0.000	0.000	Ug5_2_8_L_0						
23 D	13.49	2.9036E-20	46.43	23.47	46.43	23.47	V-C	4.7008E+04	-4.400	44.00	
1.000	1.000	67.47	0.000	0.000	Ug5_2_8_L_0						
24 D	14.09	2.8383E-20	48.48	24.43	48.48	24.43	V-C	4.7008E+04	-4.600	46.00	
1.000	1.000	70.43	0.000	0.000	Ug5_2_8_L_0						
25 D	14.68	2.7660E-20	50.54	25.39	50.54	25.39	V-C	4.7008E+04	-4.800	48.00	
1.000	1.000	73.39	0.000	0.000	Ug5_2_8_L_0						
26 D	15.27	2.6876E-20	52.59	26.36	52.59	26.36	V-C	4.7008E+04	-5.000	50.00	
1.000	1.000	76.36	0.000	0.000	Ug5_2_8_L_0						
27 D	15.86	2.6040E-20	54.58	27.32	54.58	27.32	V-C	4.7008E+04	-5.200	52.00	
1.000	1.000	79.32	0.000	0.000	Ug5_2_8_L_0						
28 D	16.46	2.5156E-20	56.63	28.28	56.63	28.28	V-C	4.7008E+04	-5.400	54.00	
1.000	1.000	82.28	0.000	0.000	Ug5_2_8_L_0						
29 D	17.05	2.4232E-20	58.67	29.25	58.67	29.25	V-C	4.7008E+04	-5.600	56.00	
1.000	1.000	85.25	0.000	0.000	Ug5_2_8_L_0						
30 D	17.64	2.3274E-20	60.66	30.22	60.66	30.22	V-C	4.7008E+04	-5.800	58.00	
1.000	1.000	88.22	0.000	0.000	Ug5_2_8_L_0						
31 D	18.24	2.2304E-20	62.70	31.18	62.70	31.18	V-C	4.7008E+04	-6.000	60.00	
1.000	1.000	91.18	0.000	0.000	Ug5_2_8_L_0						
32 D	18.83	2.1345E-20	64.74	32.15	64.74	32.15	V-C	4.7008E+04	-6.200	62.00	
1.000	1.000	94.15	0.000	0.000	Ug5_2_8_L_0						
33 D	19.42	2.0416E-20	66.73	33.12	66.73	33.12	V-C	4.7008E+04	-6.400	64.00	

1.000	1.000	97.12	0.000	0.000	Ug5_2_8_L_0					
34 D	20.02	1.9521E-20	68.76	34.09	68.76	34.09	V-C	4.7008E+04	-6.600	66.00
1.000	1.000	100.1	0.000	0.000	Ug5_2_8_L_0					
35 D	20.61	1.8661E-20	70.79	35.06	70.79	35.06	V-C	4.7008E+04	-6.800	68.00
1.000	1.000	103.1	0.000	0.000	Ug5_2_8_L_0					
36 D	21.21	1.7835E-20	72.82	36.03	72.82	36.03	V-C	4.7008E+04	-7.000	70.00
1.000	1.000	106.0	0.000	0.000	Ug5_2_8_L_0					
37 D	21.80	1.7042E-20	74.81	37.00	74.81	37.00	V-C	4.7008E+04	-7.200	72.00
1.000	1.000	109.0	0.000	0.000	Ug5_2_8_L_0					
38 D	22.39	1.6281E-20	76.84	37.97	76.84	37.97	V-C	4.7008E+04	-7.400	74.00
1.000	1.000	112.0	0.000	0.000	Ug5_2_8_L_0					
39 D	22.99	1.5549E-20	78.86	38.94	78.86	38.94	V-C	4.7008E+04	-7.600	76.00
1.000	1.000	114.9	0.000	0.000	Ug5_2_8_L_0					
40 D	23.58	1.4839E-20	80.85	39.92	80.85	39.92	V-C	4.7008E+04	-7.800	78.00
1.000	1.000	117.9	0.000	0.000	Ug5_2_8_L_0					
41 D	24.18	1.4135E-20	82.88	40.89	82.88	40.89	V-C	4.7008E+04	-8.000	80.00
1.000	1.000	120.9	0.000	0.000	Ug5_2_8_L_0					
42 D	24.77	1.3428E-20	84.90	41.86	84.90	41.86	V-C	4.7008E+04	-8.200	82.00
1.000	1.000	123.9	0.000	0.000	Ug5_2_8_L_0					
43 D	25.37	1.2714E-20	86.89	42.84	86.89	42.84	V-C	4.7008E+04	-8.400	84.00
1.000	1.000	126.8	0.000	0.000	Ug5_2_8_L_0					
44 D	25.96	1.1987E-20	88.91	43.82	88.91	43.82	V-C	4.7008E+04	-8.600	86.00
1.000	1.000	129.8	0.000	0.000	Ug5_2_8_L_0					
45 D	26.56	1.1242E-20	90.93	44.79	90.93	44.79	V-C	4.7008E+04	-8.800	88.00
1.000	1.000	132.8	0.000	0.000	Ug5_2_8_L_0					
46 D	27.15	1.0475E-20	92.96	45.77	92.96	45.77	V-C	4.7008E+04	-9.000	90.00
1.000	1.000	135.8	0.000	0.000	Ug5_2_8_L_0					
47 D	27.75	9.6966E-21	94.94	46.75	94.94	46.75	V-C	4.7008E+04	-9.200	92.00
1.000	1.000	138.7	0.000	0.000	Ug5_2_8_L_0					
48 D	28.35	8.9200E-21	96.96	47.73	96.96	47.73	V-C	4.7008E+04	-9.400	94.00
1.000	1.000	141.7	0.000	0.000	Ug5_2_8_L_0					
49 D	28.94	8.1574E-21	98.98	48.71	98.98	48.71	V-C	4.7008E+04	-9.600	96.00
1.000	1.000	144.7	0.000	0.000	Ug5_2_8_L_0					
50 D	29.54	7.4213E-21	101.0	49.69	101.0	49.69	V-C	4.7008E+04	-9.800	98.00
1.000	1.000	147.7	0.000	0.000	Ug5_2_8_L_0					
51 D	30.13	6.7233E-21	103.0	50.67	103.0	50.67	V-C	4.7008E+04	-10.000	100.00
1.000	1.000	150.7	0.000	0.000	Ug5_2_8_L_0					
52 D	30.73	6.0750E-21	105.0	51.65	105.0	51.65	V-C	4.7008E+04	-10.200	102.00
1.000	1.000	153.6	0.000	0.000	Ug5_2_8_L_0					
53 D	31.33	5.4877E-21	107.0	52.63	107.0	52.63	V-C	4.7008E+04	-10.400	104.00
1.000	1.000	156.6	0.000	0.000	Ug5_2_8_L_0					
54 D	31.92	4.9720E-21	109.0	53.61	109.0	53.61	V-C	4.7008E+04	-10.600	106.00
1.000	1.000	159.6	0.000	0.000	Ug5_2_8_L_0					
55 D	32.52	4.5386E-21	111.0	54.60	111.0	54.60	V-C	4.7008E+04	-10.800	108.00
1.000	1.000	162.6	0.000	0.000	Ug5_2_8_L_0					
56 D	33.12	4.1976E-21	113.0	55.58	113.0	55.58	V-C	4.7008E+04	-11.000	110.00
1.000	1.000	165.6	0.000	0.000	Ug5_2_8_L_0					
57 D	33.71	3.9590E-21	115.0	56.56	115.0	56.56	V-C	4.7008E+04	-11.200	112.00
1.000	1.000	168.6	0.000	0.000	Ug5_2_8_L_0					
58 D	34.31	3.8323E-21	117.0	57.55	117.0	57.55	V-C	4.7008E+04	-11.400	114.00
1.000	1.000	171.5	0.000	0.000	Ug5_2_8_L_0					
59 D	34.91	3.8269E-21	119.1	58.53	119.1	58.53	V-C	4.7008E+04	-11.600	116.00
1.000	1.000	174.5	0.000	0.000	Ug5_2_8_L_0					
60 D	35.50	3.9516E-21	121.1	59.52	121.1	59.52	V-C	4.7008E+04	-11.800	118.00
1.000	1.000	177.5	0.000	0.000	Ug5_2_8_L_0					
61 D	36.10	4.2151E-21	123.1	60.50	123.1	60.50	V-C	4.7008E+04	-12.000	120.00
1.000	1.000	180.5	0.000	0.000	Ug5_2_8_L_0					
62 D	36.68	4.6256E-21	124.9	61.39	124.9	61.39	V-C	2.2505E+04	-12.200	122.00
1.000	1.000	183.4	0.000	0.000	Ug6_741_743_L_0					
63 D	37.26	5.1912E-21	126.7	62.28	126.7	62.28	V-C	2.2505E+04	-12.400	124.00
1.000	1.000	186.3	0.000	0.000	Ug6_741_743_L_0					
64 D	37.83	5.9194E-21	128.5	63.16	128.5	63.16	V-C	2.2505E+04	-12.600	126.00
1.000	1.000	189.2	0.000	0.000	Ug6_741_743_L_0					
65 D	38.41	6.8179E-21	130.3	64.05	130.3	64.05	V-C	2.2505E+04	-12.800	128.00
1.000	1.000	192.1	0.000	0.000	Ug6_741_743_L_0					
66 D	38.99	7.8937E-21	132.0	64.94	132.0	64.94	V-C	2.2505E+04	-13.000	130.00
1.000	1.000	194.9	0.000	0.000	Ug6_741_743_L_0					
67 D	39.57	9.1538E-21	133.8	65.83	133.8	65.83	V-C	2.2505E+04	-13.200	132.00
1.000	1.000	197.8	0.000	0.000	Ug6_741_743_L_0					
68 D	40.14	1.0605E-20	135.6	66.72	135.6	66.72	V-C	2.2505E+04	-13.400	134.00
1.000	1.000	200.7	0.000	0.000	Ug6_741_743_L_0					
69 D	40.72	1.2254E-20	137.3	67.60	137.3	67.60	V-C	2.2505E+04	-13.600	136.00
1.000	1.000	203.6	0.000	0.000	Ug6_741_743_L_0					
70 D	41.30	1.4106E-20	139.1	68.49	139.1	68.49	V-C	2.2505E+04	-13.800	138.00
1.000	1.000	206.5	0.000	0.000	Ug6_741_743_L_0					
71 D	41.88	1.6167E-20	140.9	69.38	140.9	69.38	V-C	2.2505E+04	-14.000	140.00
1.000	1.000	209.4	0.000	0.000	Ug6_741_743_L_0					
72 D	42.45	1.8436E-20	142.7	70.27	142.7	70.27	V-C	2.2505E+04	-14.200	142.00
1.000	1.000	212.3	0.000	0.000	Ug6_741_743_L_0					
73 D	43.03	2.0877E-20	144.4	71.16	144.4	71.16	V-C	2.2505E+04	-14.400	144.00
1.000	1.000	215.2	0.000	0.000	Ug6_741_743_L_0					
74 D	43.61	2.3421E-20	146.2	72.05	146.2	72.05	V-C	2.2505E+04	-14.600	146.00
1.000	1.000	218.1	0.000	0.000	Ug6_741_743_L_0					
75 D	44.19	2.5998E-20	148.0	72.94	148.0	72.94	V-C	2.2505E+04	-14.800	148.00
1.000	1.000	220.9	0.000	0.000	Ug6_741_743_L_0					
76 D	44.77	2.8571E-20	149.7	73.84	149.7	73.84	V-C	2.2505E+04	-15.000	150.00
1.000	1.000	223.8	0.000	0.000	Ug6_741_743_L_0					
77 D	45.35	3.1136E-20	151.5	74.73	151.5	74.73	V-C	2.2505E+04	-15.200	152.00
1.000	1.000	226.7	0.000	0.000	Ug6_741_743_L_0					
78 D	45.92	3.3696E-20	153.3	75.62	153.3	75.62	V-C	2.2505E+04	-15.400	154.00
1.000	1.000	229.6	0.000	0.000	Ug6_741_743_L_0					

79 D	46.50	3.6253E-20	155.1	76.51	155.1	76.51	V-C	2.2505E+04	-15.60	156.0
1.000	1.000	232.5	0.000	0.000	Ug6_741_743_L_0					
80 D	47.08	3.8808E-20	156.8	77.40	156.8	77.40	V-C	2.2505E+04	-15.80	158.0
1.000	1.000	235.4	0.000	0.000	Ug6_741_743_L_0					
81 D	23.83	4.1364E-20	158.6	78.29	158.6	78.29	V-C	2.2505E+04	-16.00	160.0
1.000	1.000	238.3	0.000	0.000	Ug6_741_743_L_0					



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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*          |
|                                                                                                                                           |
|                                                                                                                                           |
|          NewProject.BaseDesignSection_28.Nominal_63                                           |
|          Exe Time :24 May 2018          18:25:47                                           |
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New Project

STRESS RESULTS FOR GROUP NO. 2

0\_R  
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 81  
CURRENT TIME IS 1.0000

HARDENING 2D SOIL ELEMENT

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

EL * FACTOR	FORCE UFACOR	DISPL-Y Peq	VERTICAL-P Su_a	HORIZON.-P Su_p	MAX-V-P LAYER	MAX-H-P	STATE	STIFFNESS	Z-LEVEL	PORE	E
1 D	0.000	-2.4162E-20	0.000	0.000	0.000	0.000	V-C	2.3371E+04	0.000	0.000	
1.000	1.000	0.000	0.000	0.000	Ug5_2_8_L_0						
2 D	0.7141	-2.4777E-20	2.000	1.570	2.000	1.570	V-C	2.3371E+04	-0.2000	2.000	
1.000	1.000	3.570	0.000	0.000	Ug5_2_8_L_0						
3 D	1.411	-2.5391E-20	4.000	3.055	4.000	3.055	V-C	2.3371E+04	-0.4000	4.000	
1.000	1.000	7.055	0.000	0.000	Ug5_2_8_L_0						
4 D	2.083	-2.6003E-20	6.000	4.413	6.000	4.413	V-C	2.3371E+04	-0.6000	6.000	
1.000	1.000	10.41	0.000	0.000	Ug5_2_8_L_0						
5 D	2.730	-2.6609E-20	8.000	5.651	8.000	5.651	V-C	2.3371E+04	-0.8000	8.000	
1.000	1.000	13.65	0.000	0.000	Ug5_2_8_L_0						
6 D	3.359	-2.7206E-20	10.00	6.797	10.00	6.797	V-C	2.3371E+04	-1.000	10.00	
1.000	1.000	16.80	0.000	0.000	Ug5_2_8_L_0						
7 D	3.976	-2.7788E-20	12.00	7.879	12.00	7.879	V-C	2.3371E+04	-1.200	12.00	
1.000	1.000	19.88	0.000	0.000	Ug5_2_8_L_0						
8 D	4.584	-2.8348E-20	14.00	8.919	14.00	8.919	V-C	2.3371E+04	-1.400	14.00	
1.000	1.000	22.92	0.000	0.000	Ug5_2_8_L_0						
9 D	5.186	-2.8881E-20	16.00	9.931	16.00	9.931	V-C	2.3371E+04	-1.600	16.00	
1.000	1.000	25.93	0.000	0.000	Ug5_2_8_L_0						
10 D	5.785	-2.9375E-20	18.00	10.93	18.00	10.93	V-C	2.3371E+04	-1.800	18.00	
1.000	1.000	28.93	0.000	0.000	Ug5_2_8_L_0						
11 D	6.381	-2.9823E-20	20.00	11.91	20.00	11.91	V-C	2.3371E+04	-2.000	20.00	
1.000	1.000	31.91	0.000	0.000	Ug5_2_8_L_0						
12 D	6.976	-3.0212E-20	22.00	12.88	22.00	12.88	V-C	2.3371E+04	-2.200	22.00	
1.000	1.000	34.88	0.000	0.000	Ug5_2_8_L_0						
13 D	7.570	-3.0536E-20	24.00	13.85	24.00	13.85	V-C	2.3371E+04	-2.400	24.00	
1.000	1.000	37.85	0.000	0.000	Ug5_2_8_L_0						
14 D	8.163	-3.0786E-20	26.00	14.82	26.00	14.82	V-C	2.3371E+04	-2.600	26.00	
1.000	1.000	40.82	0.000	0.000	Ug5_2_8_L_0						
15 D	8.756	-3.0954E-20	28.00	15.78	28.00	15.78	V-C	2.3371E+04	-2.800	28.00	
1.000	1.000	43.78	0.000	0.000	Ug5_2_8_L_0						
16 D	9.349	-3.1038E-20	30.00	16.74	30.00	16.74	V-C	2.3371E+04	-3.000	30.00	
1.000	1.000	46.74	0.000	0.000	Ug5_2_8_L_0						
17 D	9.941	-3.1035E-20	32.00	17.70	32.00	17.70	V-C	2.3371E+04	-3.200	32.00	
1.000	1.000	49.70	0.000	0.000	Ug5_2_8_L_0						
18 D	10.53	-3.0944E-20	34.00	18.66	34.00	18.66	V-C	2.3371E+04	-3.400	34.00	
1.000	1.000	52.66	0.000	0.000	Ug5_2_8_L_0						
19 D	11.13	-3.0761E-20	36.00	19.63	36.00	19.63	V-C	2.3371E+04	-3.600	36.00	
1.000	1.000	55.63	0.000	0.000	Ug5_2_8_L_0						
20 D	11.72	-3.0479E-20	38.00	20.59	38.00	20.59	V-C	2.3371E+04	-3.800	38.00	
1.000	1.000	58.59	0.000	0.000	Ug5_2_8_L_0						
21 D	12.31	-3.0094E-20	40.00	21.55	40.00	21.55	V-C	2.3371E+04	-4.000	40.00	
1.000	1.000	61.55	0.000	0.000	Ug5_2_8_L_0						
22 D	12.90	-2.9610E-20	42.00	22.51	42.00	22.51	V-C	2.3371E+04	-4.200	42.00	
1.000	1.000	64.51	0.000	0.000	Ug5_2_8_L_0						
23 D	13.49	-2.9036E-20	44.00	23.47	44.00	23.47	V-C	2.3371E+04	-4.400	44.00	
1.000	1.000	67.47	0.000	0.000	Ug5_2_8_L_0						
24 D	14.09	-2.8383E-20	46.00	24.43	46.00	24.43	V-C	2.3371E+04	-4.600	46.00	
1.000	1.000	70.43	0.000	0.000	Ug5_2_8_L_0						
25 D	14.68	-2.7660E-20	48.00	25.39	48.00	25.39	V-C	2.3371E+04	-4.800	48.00	
1.000	1.000	73.39	0.000	0.000	Ug5_2_8_L_0						
26 D	15.27	-2.6876E-20	50.00	26.36	50.00	26.36	V-C	2.3371E+04	-5.000	50.00	
1.000	1.000	76.36	0.000	0.000	Ug5_2_8_L_0						
27 D	15.86	-2.6040E-20	52.00	27.32	52.00	27.32	V-C	2.3371E+04	-5.200	52.00	
1.000	1.000	79.32	0.000	0.000	Ug5_2_8_L_0						
28 D	16.46	-2.5156E-20	54.00	28.28	54.00	28.28	V-C	2.3371E+04	-5.400	54.00	
1.000	1.000	82.28	0.000	0.000	Ug5_2_8_L_0						
29 D	17.05	-2.4232E-20	56.00	29.25	56.00	29.25	V-C	2.3371E+04	-5.600	56.00	
1.000	1.000	85.25	0.000	0.000	Ug5_2_8_L_0						
30 D	17.64	-2.3274E-20	58.00	30.22	58.00	30.22	V-C	2.3371E+04	-5.800	58.00	
1.000	1.000	88.22	0.000	0.000	Ug5_2_8_L_0						
31 D	18.24	-2.2304E-20	60.00	31.18	60.00	31.18	V-C	2.3371E+04	-6.000	60.00	
1.000	1.000	91.18	0.000	0.000	Ug5_2_8_L_0						
32 D	18.83	-2.1345E-20	62.00	32.15	62.00	32.15	V-C	2.3371E+04	-6.200	62.00	
1.000	1.000	94.15	0.000	0.000	Ug5_2_8_L_0						
33 D	19.42	-2.0416E-20	64.00	33.12	64.00	33.12	V-C	2.3371E+04	-6.400	64.00	

1.000	1.000	97.12	0.000	0.000	Ug5_2_8_L_0					
34 D	20.02	-1.9521E-20	66.00	34.09	66.00	34.09	V-C	2.3371E+04	-6.600	66.00
1.000	1.000	100.1	0.000	0.000	Ug5_2_8_L_0					
35 D	20.61	-1.8661E-20	68.00	35.06	68.00	35.06	V-C	2.3371E+04	-6.800	68.00
1.000	1.000	103.1	0.000	0.000	Ug5_2_8_L_0					
36 D	21.21	-1.7835E-20	70.00	36.03	70.00	36.03	V-C	2.3371E+04	-7.000	70.00
1.000	1.000	106.0	0.000	0.000	Ug5_2_8_L_0					
37 D	21.80	-1.7042E-20	72.00	37.00	72.00	37.00	V-C	2.3371E+04	-7.200	72.00
1.000	1.000	109.0	0.000	0.000	Ug5_2_8_L_0					
38 D	22.39	-1.6281E-20	74.00	37.97	74.00	37.97	V-C	2.3371E+04	-7.400	74.00
1.000	1.000	112.0	0.000	0.000	Ug5_2_8_L_0					
39 D	22.99	-1.5549E-20	76.00	38.94	76.00	38.94	V-C	2.3371E+04	-7.600	76.00
1.000	1.000	114.9	0.000	0.000	Ug5_2_8_L_0					
40 D	23.58	-1.4839E-20	78.00	39.92	78.00	39.92	V-C	2.3371E+04	-7.800	78.00
1.000	1.000	117.9	0.000	0.000	Ug5_2_8_L_0					
41 D	24.18	-1.4135E-20	80.00	40.89	80.00	40.89	V-C	2.3371E+04	-8.000	80.00
1.000	1.000	120.9	0.000	0.000	Ug5_2_8_L_0					
42 D	24.77	-1.3428E-20	82.00	41.86	82.00	41.86	V-C	2.3371E+04	-8.200	82.00
1.000	1.000	123.9	0.000	0.000	Ug5_2_8_L_0					
43 D	25.37	-1.2714E-20	84.00	42.84	84.00	42.84	V-C	2.3371E+04	-8.400	84.00
1.000	1.000	126.8	0.000	0.000	Ug5_2_8_L_0					
44 D	25.96	-1.1987E-20	86.00	43.82	86.00	43.82	V-C	2.3371E+04	-8.600	86.00
1.000	1.000	129.8	0.000	0.000	Ug5_2_8_L_0					
45 D	26.56	-1.1242E-20	88.00	44.79	88.00	44.79	V-C	2.3371E+04	-8.800	88.00
1.000	1.000	132.8	0.000	0.000	Ug5_2_8_L_0					
46 D	27.15	-1.0475E-20	90.00	45.77	90.00	45.77	V-C	2.3371E+04	-9.000	90.00
1.000	1.000	135.8	0.000	0.000	Ug5_2_8_L_0					
47 D	27.75	-9.6966E-21	92.00	46.75	92.00	46.75	V-C	2.3371E+04	-9.200	92.00
1.000	1.000	138.7	0.000	0.000	Ug5_2_8_L_0					
48 D	28.35	-8.9200E-21	94.00	47.73	94.00	47.73	V-C	2.3371E+04	-9.400	94.00
1.000	1.000	141.7	0.000	0.000	Ug5_2_8_L_0					
49 D	28.94	-8.1574E-21	96.00	48.71	96.00	48.71	V-C	2.3371E+04	-9.600	96.00
1.000	1.000	144.7	0.000	0.000	Ug5_2_8_L_0					
50 D	29.54	-7.4213E-21	98.00	49.69	98.00	49.69	V-C	2.3371E+04	-9.800	98.00
1.000	1.000	147.7	0.000	0.000	Ug5_2_8_L_0					
51 D	30.13	-6.7233E-21	100.00	50.67	100.00	50.67	V-C	2.3371E+04	-10.00	100.00
1.000	1.000	150.7	0.000	0.000	Ug5_2_8_L_0					
52 D	30.73	-6.0750E-21	102.0	51.65	102.0	51.65	V-C	2.3371E+04	-10.20	102.0
1.000	1.000	153.6	0.000	0.000	Ug5_2_8_L_0					
53 D	31.33	-5.4877E-21	104.0	52.63	104.0	52.63	V-C	2.3371E+04	-10.40	104.0
1.000	1.000	156.6	0.000	0.000	Ug5_2_8_L_0					
54 D	31.92	-4.9720E-21	106.0	53.61	106.0	53.61	V-C	2.3371E+04	-10.60	106.0
1.000	1.000	159.6	0.000	0.000	Ug5_2_8_L_0					
55 D	32.52	-4.5386E-21	108.0	54.60	108.0	54.60	V-C	2.3371E+04	-10.80	108.0
1.000	1.000	162.6	0.000	0.000	Ug5_2_8_L_0					
56 D	33.12	-4.1976E-21	110.0	55.58	110.0	55.58	V-C	2.3371E+04	-11.00	110.0
1.000	1.000	165.6	0.000	0.000	Ug5_2_8_L_0					
57 D	33.71	-3.9590E-21	112.0	56.56	112.0	56.56	V-C	2.3371E+04	-11.20	112.0
1.000	1.000	168.6	0.000	0.000	Ug5_2_8_L_0					
58 D	34.31	-3.8323E-21	114.0	57.55	114.0	57.55	V-C	2.3371E+04	-11.40	114.0
1.000	1.000	171.5	0.000	0.000	Ug5_2_8_L_0					
59 D	34.91	-3.8269E-21	116.0	58.53	116.0	58.53	V-C	2.3371E+04	-11.60	116.0
1.000	1.000	174.5	0.000	0.000	Ug5_2_8_L_0					
60 D	35.50	-3.9516E-21	118.0	59.52	118.0	59.52	V-C	2.3371E+04	-11.80	118.0
1.000	1.000	177.5	0.000	0.000	Ug5_2_8_L_0					
61 D	36.10	-4.2151E-21	120.0	60.50	120.0	60.50	V-C	2.3371E+04	-12.00	120.0
1.000	1.000	180.5	0.000	0.000	Ug5_2_8_L_0					
62 D	36.68	-4.6256E-21	121.8	61.39	121.8	61.39	V-C	1.7574E+04	-12.20	122.0
1.000	1.000	183.4	0.000	0.000	Ug6_741_743_L_0					
63 D	37.26	-5.1912E-21	123.6	62.28	123.6	62.28	V-C	1.7574E+04	-12.40	124.0
1.000	1.000	186.3	0.000	0.000	Ug6_741_743_L_0					
64 D	37.83	-5.9194E-21	125.4	63.16	125.4	63.16	V-C	1.7574E+04	-12.60	126.0
1.000	1.000	189.2	0.000	0.000	Ug6_741_743_L_0					
65 D	38.41	-6.8179E-21	127.2	64.05	127.2	64.05	V-C	1.7574E+04	-12.80	128.0
1.000	1.000	192.1	0.000	0.000	Ug6_741_743_L_0					
66 D	38.99	-7.8937E-21	129.0	64.94	129.0	64.94	V-C	1.7574E+04	-13.00	130.0
1.000	1.000	194.9	0.000	0.000	Ug6_741_743_L_0					
67 D	39.57	-9.1538E-21	130.8	65.83	130.8	65.83	V-C	1.7574E+04	-13.20	132.0
1.000	1.000	197.8	0.000	0.000	Ug6_741_743_L_0					
68 D	40.14	-1.0605E-20	132.6	66.72	132.6	66.72	V-C	1.7574E+04	-13.40	134.0
1.000	1.000	200.7	0.000	0.000	Ug6_741_743_L_0					
69 D	40.72	-1.2254E-20	134.4	67.60	134.4	67.60	V-C	1.7574E+04	-13.60	136.0
1.000	1.000	203.6	0.000	0.000	Ug6_741_743_L_0					
70 D	41.30	-1.4106E-20	136.2	68.49	136.2	68.49	V-C	1.7574E+04	-13.80	138.0
1.000	1.000	206.5	0.000	0.000	Ug6_741_743_L_0					
71 D	41.88	-1.6167E-20	138.0	69.38	138.0	69.38	V-C	1.7574E+04	-14.00	140.0
1.000	1.000	209.4	0.000	0.000	Ug6_741_743_L_0					
72 D	42.45	-1.8436E-20	139.8	70.27	139.8	70.27	V-C	1.7574E+04	-14.20	142.0
1.000	1.000	212.3	0.000	0.000	Ug6_741_743_L_0					
73 D	43.03	-2.0877E-20	141.6	71.16	141.6	71.16	V-C	1.7574E+04	-14.40	144.0
1.000	1.000	215.2	0.000	0.000	Ug6_741_743_L_0					
74 D	43.61	-2.3421E-20	143.4	72.05	143.4	72.05	V-C	1.7574E+04	-14.60	146.0
1.000	1.000	218.1	0.000	0.000	Ug6_741_743_L_0					
75 D	44.19	-2.5998E-20	145.2	72.94	145.2	72.94	V-C	1.7574E+04	-14.80	148.0
1.000	1.000	220.9	0.000	0.000	Ug6_741_743_L_0					
76 D	44.77	-2.8571E-20	147.0	73.84	147.0	73.84	V-C	1.7574E+04	-15.00	150.0
1.000	1.000	223.8	0.000	0.000	Ug6_741_743_L_0					
77 D	45.35	-3.1136E-20	148.8	74.73	148.8	74.73	V-C	1.7574E+04	-15.20	152.0
1.000	1.000	226.7	0.000	0.000	Ug6_741_743_L_0					
78 D	45.92	-3.3696E-20	150.6	75.62	150.6	75.62	V-C	1.7574E+04	-15.40	154.0
1.000	1.000	229.6	0.000	0.000	Ug6_741_743_L_0					

79 D	46.50	-3.6253E-20	152.4	76.51	152.4	76.51	V-C	1.7574E+04	-15.60	156.0
1.000	1.000	232.5	0.000	0.000	Ug6_741_743_L_0					
80 D	47.08	-3.8808E-20	154.2	77.40	154.2	77.40	V-C	1.7574E+04	-15.80	158.0
1.000	1.000	235.4	0.000	0.000	Ug6_741_743_L_0					
81 D	23.83	-4.1364E-20	156.0	78.29	156.0	78.29	V-C	1.7574E+04	-16.00	160.0
1.000	1.000	238.3	0.000	0.000	Ug6_741_743_L_0					

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\_33 :  
ELEMENT TYPE 2 NO.OF ELEMENTS. IN THIS GROUP 80  
CURRENT TIME IS 1.0000

WALL2D ELEMENT

EL	TA	TB	MA	MB
1	1.01855E-16	-1.01855E-16	-9.97120E-28	2.03710E-17
2	3.05921E-16	-3.05921E-16	-2.03710E-17	8.15552E-17
3	5.10341E-16	-5.10341E-16	-8.15552E-17	1.83623E-16
4	7.15104E-16	-7.15104E-16	-1.83623E-16	3.26644E-16
5	9.20187E-16	-9.20187E-16	-3.26644E-16	5.10682E-16
6	1.12555E-15	-1.12555E-15	-5.10682E-16	7.35792E-16
7	1.33115E-15	-1.33115E-15	-7.35792E-16	1.00202E-15
8	1.53689E-15	-1.53689E-15	-1.00202E-15	1.30940E-15
9	1.74270E-15	-1.74270E-15	-1.30940E-15	1.65794E-15
10	1.94844E-15	-1.94844E-15	-1.65794E-15	2.04763E-15
11	2.26579E-15	-2.26579E-15	-2.04763E-15	2.30079E-15
12	2.65799E-15	-2.65799E-15	-2.30079E-15	2.59498E-15
13	3.11336E-15	-3.11336E-15	-2.59498E-15	2.93009E-15
14	3.65666E-15	-3.65666E-15	-2.93009E-15	3.32566E-15
15	4.28251E-15	-4.28251E-15	-3.32566E-15	3.77922E-15
16	4.98752E-15	-4.98752E-15	-3.77922E-15	4.29922E-15
17	5.77526E-15	-5.77526E-15	-4.29922E-15	4.89092E-15
18	6.65266E-15	-6.65266E-15	-4.89092E-15	5.55882E-15
19	7.62910E-15	-7.62910E-15	-5.55882E-15	6.30940E-15
20	8.70266E-15	-8.70266E-15	-6.30940E-15	7.15104E-15
21	9.87266E-15	-9.87266E-15	-7.15104E-15	8.09921E-15
22	1.11487E-14	-1.11487E-14	-8.09921E-15	9.15552E-15
23	1.25341E-14	-1.25341E-14	-9.15552E-15	1.03710E-14
24	1.40921E-14	-1.40921E-14	-1.03710E-14	1.19266E-14
25	1.58266E-14	-1.58266E-14	-1.19266E-14	1.35792E-14
26	1.77526E-14	-1.77526E-14	-1.35792E-14	1.54266E-14
27	2.00000E-14	-2.00000E-14	-1.54266E-14	1.74270E-14
28	2.26644E-14	-2.26644E-14	-1.74270E-14	1.94844E-14
29	2.57526E-14	-2.57526E-14	-1.94844E-14	2.16000E-14
30	2.92666E-14	-2.92666E-14	-2.16000E-14	2.38266E-14
31	3.33000E-14	-3.33000E-14	-2.38266E-14	2.62000E-14
32	3.79666E-14	-3.79666E-14	-2.62000E-14	2.87266E-14
33	4.33000E-14	-4.33000E-14	-2.87266E-14	3.14266E-14
34	4.93000E-14	-4.93000E-14	-3.14266E-14	3.43000E-14
35	5.60000E-14	-5.60000E-14	-3.43000E-14	3.73666E-14
36	6.35000E-14	-6.35000E-14	-3.73666E-14	4.06266E-14
37	7.18750E-14	-7.18750E-14	-4.06266E-14	4.41000E-14
38	8.11000E-14	-8.11000E-14	-4.41000E-14	4.77750E-14
39	9.12750E-14	-9.12750E-14	-4.77750E-14	5.16625E-14
40	1.03500E-13	-1.03500E-13	-5.16625E-14	5.57625E-14
41	1.17375E-13	-1.17375E-13	-5.57625E-14	6.00750E-14
42	1.33500E-13	-1.33500E-13	-6.00750E-14	6.46125E-14
43	1.52000E-13	-1.52000E-13	-6.46125E-14	6.93750E-14
44	1.73000E-13	-1.73000E-13	-6.93750E-14	7.43625E-14
45	1.96500E-13	-1.96500E-13	-7.43625E-14	7.95750E-14
46	2.23625E-13	-2.23625E-13	-7.95750E-14	8.50125E-14
47	2.54375E-13	-2.54375E-13	-8.50125E-14	9.06750E-14
48	2.88750E-13	-2.88750E-13	-9.06750E-14	9.65625E-14
49	3.26875E-13	-3.26875E-13	-9.65625E-14	1.02675E-13
50	3.68750E-13	-3.68750E-13	-1.02675E-13	1.09000E-13
51	4.14500E-13	-4.14500E-13	-1.09000E-13	1.15625E-13
52	4.64250E-13	-4.64250E-13	-1.15625E-13	1.22562E-13
53	5.18000E-13	-5.18000E-13	-1.22562E-13	1.29812E-13
54	5.75750E-13	-5.75750E-13	-1.29812E-13	1.37375E-13
55	6.37500E-13	-6.37500E-13	-1.37375E-13	1.45250E-13
56	7.03250E-13	-7.03250E-13	-1.45250E-13	1.53437E-13
57	7.73000E-13	-7.73000E-13	-1.53437E-13	1.61937E-13
58	8.46750E-13	-8.46750E-13	-1.61937E-13	1.70750E-13
59	9.24500E-13	-9.24500E-13	-1.70750E-13	1.80875E-13
60	1.00625E-12	-1.00625E-12	-1.80875E-13	1.92312E-13
61	1.09125E-12	-1.09125E-12	-1.92312E-13	2.05062E-13
62	1.19000E-12	-1.19000E-12	-2.05062E-13	2.19225E-13
63	1.29250E-12	-1.29250E-12	-2.19225E-13	2.34812E-13
64	1.40000E-12	-1.40000E-12	-2.34812E-13	2.51825E-13
65	1.51250E-12	-1.51250E-12	-2.51825E-13	2.70262E-13
66	1.63000E-12	-1.63000E-12	-2.70262E-13	2.90125E-13
67	1.75250E-12	-1.75250E-12	-2.90125E-13	3.11437E-13
68	1.88000E-12	-1.88000E-12	-3.11437E-13	3.34200E-13
69	2.01250E-12	-2.01250E-12	-3.34200E-13	3.58512E-13

70-9.42073E-16 9.42073E-16 7.35010E-15-7.53851E-15  
71 6.23125E-15-6.23125E-15 7.53851E-15-6.29226E-15  
72 1.34089E-14-1.34089E-14 6.29226E-15-3.61048E-15  
73 1.34856E-14-1.34856E-14 3.61048E-15-9.13372E-16  
74 6.46137E-15-6.46137E-15 9.13372E-16 3.78901E-16  
75-5.58183E-16 5.58183E-16-3.78901E-16 2.67264E-16  
76-4.67589E-16 4.67589E-16-2.67264E-16 1.73747E-16  
77-3.72232E-16 3.72232E-16-1.73747E-16 9.93002E-17  
78-2.72078E-16 2.72078E-16-9.93002E-17 4.48846E-17  
79-1.67108E-16 1.67108E-16-4.48846E-17 1.14630E-17  
80-5.73122E-17 5.73122E-17-1.14630E-17 1.81754E-27

ITER 0 RNORM = 0.000 RMNORM= 0.000  
RINORM=0.1133E+06 RIMNOR=0.1597E-26  
RENORM= 302.6 REMNOR=0.6218E-52 RATIO =0.5168E-01 TOLER =0.1000E-03 NOT CONVERGED  
RFMAX = 46.57 RMMAX =0.7539E-14  
RTSMAL=0.1000E-03 RMSMAL=0.1000E-19  
RDT =0.1133E+06 RDR =0.1000E-19  
RATIOT=0.5168E-01 RATIO= 0.000  
MAX UN= 3.327 IEQ= 11 NODE 6 DOF 1 Y-DISPL.F  
MIN UN=-.1019E-15 IEQ= 1 NODE 1 DOF 1 Y-DISPL.F  
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 2 RNORM = 0.000 RMNORM= 0.000  
RINORM=0.1133E+06 RIMNOR=0.1597E-26  
RENORM= 12.00 REMNOR=0.2777E-21 RATIO =0.1029E-01 TOLER =0.1000E-03 NOT CONVERGED  
RFMAX = 46.57 RMMAX =0.7539E-14  
RTSMAL=0.1000E-03 RMSMAL=0.1000E-19  
RDT =0.1133E+06 RDR =0.1000E-19  
RATIOT=0.1029E-01 RATIO= 0.000  
MAX UN= 1.661 IEQ= 3 NODE 2 DOF 1 Y-DISPL.F  
MIN UN=-.2766E-10 IEQ= 101 NODE 51 DOF 1 Y-DISPL.F  
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 3 RNORM = 0.000 RMNORM= 0.000  
RINORM=0.1133E+06 RIMNOR=0.1597E-26  
RENORM= 8.122 REMNOR=0.8119E-21 RATIO =0.8467E-02 TOLER =0.1000E-03 NOT CONVERGED  
RFMAX = 46.57 RMMAX =0.7539E-14  
RTSMAL=0.1000E-03 RMSMAL=0.1000E-19  
RDT =0.1133E+06 RDR =0.1000E-19  
RATIOT=0.8467E-02 RATIO= 0.000  
MAX UN= 1.821 IEQ= 29 NODE 15 DOF 1 Y-DISPL.F  
MIN UN=-.1256E-09 IEQ= 21 NODE 11 DOF 1 Y-DISPL.F  
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 4 RNORM = 0.000 RMNORM= 0.000  
RINORM=0.1133E+06 RIMNOR=0.1597E-26  
RENORM=0.1593 REMNOR=0.3171E-21 RATIO =0.1186E-02 TOLER =0.1000E-03 NOT CONVERGED  
RFMAX = 46.57 RMMAX =0.7539E-14  
RTSMAL=0.1000E-03 RMSMAL=0.1000E-19  
RDT =0.1133E+06 RDR =0.1000E-19  
RATIOT=0.1186E-02 RATIO= 0.000  
MAX UN=0.3826 IEQ= 43 NODE 22 DOF 1 Y-DISPL.F  
MIN UN=-.1306E-09 IEQ= 9 NODE 5 DOF 1 Y-DISPL.F  
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 5 RNORM = 0.000 RMNORM= 0.000  
RINORM=0.1133E+06 RIMNOR=0.1597E-26  
RENORM=0.5649E-05 REMNOR=0.1304E-21 RATIO =0.7061E-05 TOLER =0.1000E-03 CONVERGED !  
RFMAX = 46.57 RMMAX =0.7539E-14  
RTSMAL=0.1000E-03 RMSMAL=0.1000E-19  
RDT =0.1133E+06 RDR =0.1000E-19  
RATIOT=0.7061E-05 RATIO= 0.000  
MAX UN=0.2377E-02 IEQ= 65 NODE 33 DOF 1 Y-DISPL.F  
MIN UN=-.7402E-10 IEQ= 11 NODE 6 DOF 1 Y-DISPL.F  
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

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|                PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
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New Project
SOLUTION REACHED USING      5 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   2   ( AT TIME  2.000   )

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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	3.3603417E-04	-6.4828788E-05	
2	3.2306842E-04	-6.4828788E-05	
3	3.1010312E-04	-6.4821809E-05	
4	2.9714156E-04	-6.4786883E-05	
5	2.8419257E-04	-6.4688990E-05	
6	2.7127343E-04	-6.4478991E-05	
7	2.5841267E-04	-6.4093590E-05	
8	2.4565005E-04	-6.3497418E-05	
9	2.3302770E-04	-6.2691200E-05	
10	2.2058739E-04	-6.1677611E-05	
11	2.0837018E-04	-6.0461110E-05	
12	1.9641607E-04	-5.9047861E-05	
13	1.8476364E-04	-5.7445597E-05	
14	1.7344980E-04	-5.5663717E-05	
15	1.6250939E-04	-5.3713318E-05	
16	1.5197486E-04	-5.1607145E-05	
17	1.4187590E-04	-4.9359639E-05	
18	1.3223929E-04	-4.6987104E-05	
19	1.2308819E-04	-4.4507704E-05	
20	1.1444199E-04	-4.1941514E-05	
21	1.0631593E-04	-3.9310643E-05	
22	9.8720477E-05	-3.6639264E-05	
23	9.1661172E-05	-3.3953706E-05	
24	8.5138036E-05	-3.1282537E-05	
25	7.9145276E-05	-2.8654586E-05	
26	7.3671627E-05	-2.6095243E-05	
27	6.8701258E-05	-2.3625078E-05	
28	6.4214598E-05	-2.1260266E-05	
29	6.0189307E-05	-1.9013124E-05	
30	5.6600914E-05	-1.6892504E-05	
31	5.3423483E-05	-1.4904224E-05	
32	5.0630203E-05	-1.3051469E-05	
33	4.8193815E-05	-1.1335136E-05	
34	4.6087118E-05	-9.7542585E-06	
35	4.4283265E-05	-8.3060776E-06	
36	4.2756138E-05	-6.9861261E-06	
37	4.1480660E-05	-5.7885802E-06	
38	4.0433012E-05	-4.7065480E-06	
39	3.9590850E-05	-3.7323882E-06	
40	3.8933409E-05	-2.8579408E-06	
41	3.8441590E-05	-2.0747404E-06	
42	3.8098005E-05	-1.3741525E-06	
43	3.7886999E-05	-7.4751132E-07	
44	3.7794640E-05	-1.8628801E-07	
45	3.7808672E-05	3.1775652E-07	
46	3.7918452E-05	7.7244676E-07	
47	3.8114846E-05	1.1850564E-06	
48	3.8390111E-05	1.5622098E-06	
49	3.8737757E-05	1.9097797E-06	
50	3.9152384E-05	2.2327960E-06	
51	3.9629511E-05	2.5353679E-06	
52	4.0165389E-05	2.8206044E-06	
53	4.0756713E-05	3.0905064E-06	
54	4.1400601E-05	3.3459933E-06	
55	4.2094127E-05	3.5867281E-06	
56	4.2834203E-05	3.8111186E-06	
57	4.3617290E-05	4.0162457E-06	
58	4.4439130E-05	4.1978099E-06	
59	4.5294461E-05	4.3500826E-06	
60	4.6176730E-05	4.4658626E-06	
61	4.7077793E-05	4.5364400E-06	
62	4.7987610E-05	4.5515692E-06	
63	4.8894766E-05	4.5118715E-06	
64	4.9789485E-05	4.4290668E-06	
65	5.0664228E-05	4.3137956E-06	
66	5.1513477E-05	4.1756306E-06	
67	5.2333522E-05	4.0230920E-06	
68	5.3122254E-05	3.8636666E-06	
69	5.3878961E-05	3.7038283E-06	
70	5.4604124E-05	3.5490604E-06	
71	5.5299224E-05	3.4038770E-06	
72	5.5966551E-05	3.2718441E-06	
73	5.6609014E-05	3.1556001E-06	

74	5.7229959E-05	3.0568734E-06
75	5.7832987E-05	2.9764983E-06
76	5.8421779E-05	2.9144290E-06
77	5.8999918E-05	2.8697502E-06
78	5.9570720E-05	2.8406863E-06
79	6.0137058E-05	2.8246070E-06
80	6.0701196E-05	2.8180317E-06
81	6.1264644E-05	2.8166319E-06

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*          |
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|          NewProject.BaseDesignSection_28.Nominal_63          |
|          Exe Time :24 May 2018          18:25:47          |
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New Project

STRESS RESULTS FOR GROUP NO. 1

0\_L  
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 81  
CURRENT TIME IS 2.0000

HARDENING 2D SOIL ELEMENT

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

EL * FACTOR	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
1 D	0.000	-3.3603E-04	0.000	0.000	0.000	0.000	ACTIVE	0.000	0.000	0.000	
1.000	1.000	0.000	0.000	0.000	Ug5_2_8_L_0						
2 D	0.4903	-3.2307E-04	2.073	0.5161	2.073	1.603	ACTIVE	0.000	-0.2000	1.935	
1.000	1.000	2.452	0.000	0.000	Ug5_2_8_L_0						
3 D	0.9826	-3.1010E-04	4.186	1.042	4.186	3.119	ACTIVE	0.000	-0.4000	3.871	
1.000	1.000	4.913	0.000	0.000	Ug5_2_8_L_0						
4 D	1.478	-2.9714E-04	6.351	1.581	6.351	4.509	ACTIVE	0.000	-0.6000	5.806	
1.000	1.000	7.388	0.000	0.000	Ug5_2_8_L_0						
5 D	1.974	-2.8419E-04	8.555	2.130	8.555	5.780	ACTIVE	0.000	-0.8000	7.742	
1.000	1.000	9.872	0.000	0.000	Ug5_2_8_L_0						
6 D	2.472	-2.7127E-04	10.78	2.683	10.78	6.958	ACTIVE	0.000	-1.000	9.677	
1.000	1.000	12.36	0.000	0.000	Ug5_2_8_L_0						
7 D	2.970	-2.5841E-04	13.00	3.236	13.00	8.073	ACTIVE	0.000	-1.200	11.61	
1.000	1.000	14.85	0.000	0.000	Ug5_2_8_L_0						
8 D	3.473	-2.4565E-04	15.33	3.816	15.33	9.145	ACTIVE	0.000	-1.400	13.55	
1.000	1.000	17.36	0.000	0.000	Ug5_2_8_L_0						
9 D	3.978	-2.3303E-04	17.69	4.405	17.69	10.19	ACTIVE	0.000	-1.600	15.48	
1.000	1.000	19.89	0.000	0.000	Ug5_2_8_L_0						
10 D	4.472	-2.2059E-04	19.84	4.941	19.84	11.22	ACTIVE	0.000	-1.800	17.42	
1.000	1.000	22.36	0.000	0.000	Ug5_2_8_L_0						
11 D	4.973	-2.0837E-04	22.13	5.510	22.13	12.23	ACTIVE	0.000	-2.000	19.35	
1.000	1.000	24.87	0.000	0.000	Ug5_2_8_L_0						
12 D	5.472	-1.9642E-04	24.38	6.071	24.38	13.24	ACTIVE	0.000	-2.200	21.29	
1.000	1.000	27.36	0.000	0.000	Ug5_2_8_L_0						
13 D	5.964	-1.8476E-04	26.48	6.594	26.48	14.24	ACTIVE	0.000	-2.400	23.23	
1.000	1.000	29.82	0.000	0.000	Ug5_2_8_L_0						
14 D	6.461	-1.7345E-04	28.70	7.145	28.70	15.24	ACTIVE	0.000	-2.600	25.16	
1.000	1.000	32.31	0.000	0.000	Ug5_2_8_L_0						
15 D	6.958	-1.6251E-04	30.89	7.691	30.89	16.23	ACTIVE	0.000	-2.800	27.10	
1.000	1.000	34.79	0.000	0.000	Ug5_2_8_L_0						
16 D	7.453	-1.5197E-04	33.06	8.233	33.06	17.23	ACTIVE	0.000	-3.000	29.03	
1.000	1.000	37.27	0.000	0.000	Ug5_2_8_L_0						
17 D	7.944	-1.4188E-04	35.14	8.750	35.14	18.22	ACTIVE	0.000	-3.200	30.97	
1.000	1.000	39.72	0.000	0.000	Ug5_2_8_L_0						
18 D	8.438	-1.3224E-04	37.30	9.287	37.30	19.21	ACTIVE	0.000	-3.400	32.90	
1.000	1.000	42.19	0.000	0.000	Ug5_2_8_L_0						
19 D	8.932	-1.2309E-04	39.45	9.823	39.45	20.21	ACTIVE	0.000	-3.600	34.84	
1.000	1.000	44.66	0.000	0.000	Ug5_2_8_L_0						
20 D	9.422	-1.1444E-04	41.51	10.34	41.51	21.20	ACTIVE	0.000	-3.800	36.77	
1.000	1.000	47.11	0.000	0.000	Ug5_2_8_L_0						
21 D	9.916	-1.0632E-04	43.65	10.87	43.65	22.19	ACTIVE	0.000	-4.000	38.71	
1.000	1.000	49.58	0.000	0.000	Ug5_2_8_L_0						
22 D	10.41	-9.8720E-05	45.78	11.40	45.78	23.18	ACTIVE	0.000	-4.200	40.65	
1.000	1.000	52.05	0.000	0.000	Ug5_2_8_L_0						
23 D	10.90	-9.1661E-05	47.84	11.91	47.84	24.18	ACTIVE	0.000	-4.400	42.58	
1.000	1.000	54.49	0.000	0.000	Ug5_2_8_L_0						
24 D	11.54	-8.5138E-05	49.97	13.17	49.97	25.17	UL-RL	1.4103E+05	-4.600	44.52	
1.000	1.000	57.68	0.000	0.000	Ug5_2_8_L_0						
25 D	12.29	-7.9145E-05	52.09	15.01	52.09	26.17	UL-RL	1.4103E+05	-4.800	46.45	
1.000	1.000	61.46	0.000	0.000	Ug5_2_8_L_0						
26 D	13.03	-7.3672E-05	54.20	16.77	54.20	27.16	UL-RL	1.4103E+05	-5.000	48.39	
1.000	1.000	65.16	0.000	0.000	Ug5_2_8_L_0						
27 D	13.76	-6.8701E-05	56.26	18.47	56.26	28.16	UL-RL	1.4103E+05	-5.200	50.32	
1.000	1.000	68.79	0.000	0.000	Ug5_2_8_L_0						
28 D	14.47	-6.4215E-05	58.37	20.10	58.37	29.16	UL-RL	1.4103E+05	-5.400	52.26	
1.000	1.000	72.36	0.000	0.000	Ug5_2_8_L_0						
29 D	15.17	-6.0189E-05	60.48	21.66	60.48	30.15	UL-RL	1.4103E+05	-5.600	54.19	
1.000	1.000	75.86	0.000	0.000	Ug5_2_8_L_0						
30 D	15.86	-5.6601E-05	62.53	23.17	62.53	31.15	UL-RL	1.4103E+05	-5.800	56.13	
1.000	1.000	79.30	0.000	0.000	Ug5_2_8_L_0						
31 D	16.54	-5.3423E-05	64.63	24.62	64.63	32.15	UL-RL	1.4103E+05	-6.000	58.06	
1.000	1.000	82.68	0.000	0.000	Ug5_2_8_L_0						
32 D	17.20	-5.0630E-05	66.74	26.01	66.74	33.15	UL-RL	1.4103E+05	-6.200	60.00	
1.000	1.000	86.01	0.000	0.000	Ug5_2_8_L_0						
33 D	17.86	-4.8194E-05	68.79	27.35	68.79	34.15	UL-RL	1.4103E+05	-6.400	61.94	



1.000	1.000	89.29	0.000	0.000	Ug5_2_8_L_0					
34 D	18.50	-4.6087E-05	70.89	28.65	70.89	35.15	UL-RL	1.4103E+05	-6.600	63.87
1.000	1.000	92.52	0.000	0.000	Ug5_2_8_L_0					
35 D	19.14	-4.4283E-05	72.98	29.91	72.98	36.15	UL-RL	1.4103E+05	-6.800	65.81
1.000	1.000	95.71	0.000	0.000	Ug5_2_8_L_0					
36 D	19.77	-4.2756E-05	75.08	31.13	75.08	37.16	UL-RL	1.4103E+05	-7.000	67.74
1.000	1.000	98.87	0.000	0.000	Ug5_2_8_L_0					
37 D	20.40	-4.1481E-05	77.13	32.31	77.13	38.16	UL-RL	1.4103E+05	-7.200	69.68
1.000	1.000	102.0	0.000	0.000	Ug5_2_8_L_0					
38 D	21.01	-4.0433E-05	79.22	33.46	79.22	39.16	UL-RL	1.4103E+05	-7.400	71.61
1.000	1.000	105.1	0.000	0.000	Ug5_2_8_L_0					
39 D	21.63	-3.9591E-05	81.32	34.58	81.32	40.17	UL-RL	1.4103E+05	-7.600	73.55
1.000	1.000	108.1	0.000	0.000	Ug5_2_8_L_0					
40 D	22.23	-3.8933E-05	83.37	35.68	83.37	41.17	UL-RL	1.4103E+05	-7.800	75.48
1.000	1.000	111.2	0.000	0.000	Ug5_2_8_L_0					
41 D	22.84	-3.8442E-05	85.46	36.76	85.46	42.18	UL-RL	1.4103E+05	-8.000	77.42
1.000	1.000	114.2	0.000	0.000	Ug5_2_8_L_0					
42 D	23.43	-3.8098E-05	87.55	37.81	87.55	43.19	UL-RL	1.4103E+05	-8.200	79.35
1.000	1.000	117.2	0.000	0.000	Ug5_2_8_L_0					
43 D	24.03	-3.7887E-05	89.60	38.85	89.60	44.19	UL-RL	1.4103E+05	-8.400	81.29
1.000	1.000	120.1	0.000	0.000	Ug5_2_8_L_0					
44 D	24.62	-3.7795E-05	91.69	39.87	91.69	45.20	UL-RL	1.4103E+05	-8.600	83.23
1.000	1.000	123.1	0.000	0.000	Ug5_2_8_L_0					
45 D	25.21	-3.7809E-05	93.77	40.88	93.77	46.21	UL-RL	1.4103E+05	-8.800	85.16
1.000	1.000	126.0	0.000	0.000	Ug5_2_8_L_0					
46 D	25.79	-3.7918E-05	95.86	41.87	95.86	47.22	UL-RL	1.4103E+05	-9.000	87.10
1.000	1.000	129.0	0.000	0.000	Ug5_2_8_L_0					
47 D	26.38	-3.8115E-05	97.91	42.86	97.91	48.23	UL-RL	1.4103E+05	-9.200	89.03
1.000	1.000	131.9	0.000	0.000	Ug5_2_8_L_0					
48 D	26.96	-3.8390E-05	100.00	43.83	100.00	49.24	UL-RL	1.4103E+05	-9.400	90.97
1.000	1.000	134.8	0.000	0.000	Ug5_2_8_L_0					
49 D	27.54	-3.8738E-05	102.1	44.79	102.1	50.26	UL-RL	1.4103E+05	-9.600	92.90
1.000	1.000	137.7	0.000	0.000	Ug5_2_8_L_0					
50 D	28.12	-3.9152E-05	104.1	45.75	104.1	51.27	UL-RL	1.4103E+05	-9.800	94.84
1.000	1.000	140.6	0.000	0.000	Ug5_2_8_L_0					
51 D	28.69	-3.9630E-05	106.2	46.69	106.2	52.28	UL-RL	1.4103E+05	-10.000	96.77
1.000	1.000	143.5	0.000	0.000	Ug5_2_8_L_0					
52 D	29.27	-4.0165E-05	108.3	47.63	108.3	53.29	UL-RL	1.4103E+05	-10.200	98.71
1.000	1.000	146.3	0.000	0.000	Ug5_2_8_L_0					
53 D	29.84	-4.0757E-05	110.3	48.56	110.3	54.31	UL-RL	1.4103E+05	-10.400	100.6
1.000	1.000	149.2	0.000	0.000	Ug5_2_8_L_0					
54 D	30.41	-4.1401E-05	112.4	49.48	112.4	55.32	UL-RL	1.4103E+05	-10.600	102.6
1.000	1.000	152.1	0.000	0.000	Ug5_2_8_L_0					
55 D	30.98	-4.2094E-05	114.5	50.40	114.5	56.34	UL-RL	1.4103E+05	-10.800	104.5
1.000	1.000	154.9	0.000	0.000	Ug5_2_8_L_0					
56 D	31.55	-4.2834E-05	116.6	51.31	116.6	57.35	UL-RL	1.4103E+05	-11.000	106.5
1.000	1.000	157.8	0.000	0.000	Ug5_2_8_L_0					
57 D	32.12	-4.3617E-05	118.6	52.22	118.6	58.37	UL-RL	1.4103E+05	-11.200	108.4
1.000	1.000	160.6	0.000	0.000	Ug5_2_8_L_0					
58 D	32.69	-4.4439E-05	120.7	53.12	120.7	59.39	UL-RL	1.4103E+05	-11.400	110.3
1.000	1.000	163.4	0.000	0.000	Ug5_2_8_L_0					
59 D	33.25	-4.5294E-05	122.8	54.02	122.8	60.40	UL-RL	1.4103E+05	-11.600	112.3
1.000	1.000	166.3	0.000	0.000	Ug5_2_8_L_0					
60 D	33.82	-4.6177E-05	124.9	54.91	124.9	61.42	UL-RL	1.4103E+05	-11.800	114.2
1.000	1.000	169.1	0.000	0.000	Ug5_2_8_L_0					
61 D	34.39	-4.7078E-05	126.9	55.80	126.9	62.44	UL-RL	1.4103E+05	-12.000	116.1
1.000	1.000	171.9	0.000	0.000	Ug5_2_8_L_0					
62 D	35.64	-4.7988E-05	128.8	60.12	128.8	63.36	UL-RL	6.7514E+04	-12.200	118.1
1.000	1.000	178.2	0.000	0.000	Ug6_741_743_L_0					
63 D	36.19	-4.8895E-05	130.7	60.97	130.7	64.28	UL-RL	6.7514E+04	-12.400	120.0
1.000	1.000	181.0	0.000	0.000	Ug6_741_743_L_0					
64 D	36.75	-4.9789E-05	132.5	61.83	132.5	65.20	UL-RL	6.7514E+04	-12.600	121.9
1.000	1.000	183.8	0.000	0.000	Ug6_741_743_L_0					
65 D	37.31	-5.0664E-05	134.4	62.69	134.4	66.12	UL-RL	6.7514E+04	-12.800	123.9
1.000	1.000	186.6	0.000	0.000	Ug6_741_743_L_0					
66 D	37.87	-5.1513E-05	136.2	63.56	136.2	67.04	UL-RL	6.7514E+04	-13.000	125.8
1.000	1.000	189.4	0.000	0.000	Ug6_741_743_L_0					
67 D	38.43	-5.2334E-05	138.1	64.42	138.1	67.96	UL-RL	6.7514E+04	-13.200	127.7
1.000	1.000	192.2	0.000	0.000	Ug6_741_743_L_0					
68 D	38.99	-5.3122E-05	139.9	65.29	139.9	68.88	UL-RL	6.7514E+04	-13.400	129.7
1.000	1.000	195.0	0.000	0.000	Ug6_741_743_L_0					
69 D	39.55	-5.3879E-05	141.7	66.16	141.7	69.80	UL-RL	6.7514E+04	-13.600	131.6
1.000	1.000	197.8	0.000	0.000	Ug6_741_743_L_0					
70 D	40.12	-5.4604E-05	143.6	67.03	143.6	70.72	UL-RL	6.7514E+04	-13.800	133.5
1.000	1.000	200.6	0.000	0.000	Ug6_741_743_L_0					
71 D	40.68	-5.5299E-05	145.4	67.91	145.4	71.64	UL-RL	6.7514E+04	-14.000	135.5
1.000	1.000	203.4	0.000	0.000	Ug6_741_743_L_0					
72 D	41.24	-5.5967E-05	147.2	68.78	147.2	72.56	UL-RL	6.7514E+04	-14.200	137.4
1.000	1.000	206.2	0.000	0.000	Ug6_741_743_L_0					
73 D	41.80	-5.6609E-05	149.1	69.66	149.1	73.49	UL-RL	6.7514E+04	-14.400	139.4
1.000	1.000	209.0	0.000	0.000	Ug6_741_743_L_0					
74 D	42.37	-5.7230E-05	150.9	70.54	150.9	74.41	UL-RL	6.7514E+04	-14.600	141.3
1.000	1.000	211.8	0.000	0.000	Ug6_741_743_L_0					
75 D	42.93	-5.7833E-05	152.7	71.43	152.7	75.33	UL-RL	6.7514E+04	-14.800	143.2
1.000	1.000	214.7	0.000	0.000	Ug6_741_743_L_0					
76 D	43.49	-5.8422E-05	154.6	72.31	154.6	76.25	UL-RL	6.7514E+04	-15.000	145.2
1.000	1.000	217.5	0.000	0.000	Ug6_741_743_L_0					
77 D	44.06	-5.9000E-05	156.4	73.20	156.4	77.18	UL-RL	6.7514E+04	-15.200	147.1
1.000	1.000	220.3	0.000	0.000	Ug6_741_743_L_0					
78 D	44.62	-5.9571E-05	158.3	74.08	158.3	78.10	UL-RL	6.7514E+04	-15.400	149.0
1.000	1.000	223.1	0.000	0.000	Ug6_741_743_L_0					

79 D	45.19	-6.0137E-05	160.1	74.97	160.1	79.03	UL-RL	6.7514E+04	-15.60	151.0
1.000	1.000	225.9	0.000	0.000	Ug6_741_743_L_0					
80 D	45.75	-6.0701E-05	161.9	75.85	161.9	79.95	UL-RL	6.7514E+04	-15.80	152.9
1.000	1.000	228.8	0.000	0.000	Ug6_741_743_L_0					
81 D	23.16	-6.1265E-05	163.8	76.74	163.8	80.88	UL-RL	6.7514E+04	-16.00	154.8
1.000	1.000	231.6	0.000	0.000	Ug6_741_743_L_0					

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|                PARATIEPLUS(TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION *Build date:Jul 11, 2017*                |
|                                                                                                                                            |
|                                                                                                                                            |
|                NewProject.BaseDesignSection_28.Nominal_63                                                                              |
|                Exe Time :24 May 2018      18:25:47                                                                              |
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New Project

STRESS RESULTS FOR GROUP NO. 2

0\_R  
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 81  
CURRENT TIME IS 2.0000

HARDENING 2D SOIL ELEMENT

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

EL * FACTOR	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
1	0.000	--	--	--	--	--	REMOVED	--	0.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
2	0.000	--	--	--	--	--	REMOVED	--	-0.2000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
3	0.000	--	--	--	--	--	REMOVED	--	-0.4000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
4	0.000	--	--	--	--	--	REMOVED	--	-0.6000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
5	0.000	--	--	--	--	--	REMOVED	--	-0.8000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
6 D	0.000	2.7127E-04	0.000	0.000	10.00	6.797	PASSIVE	0.000	-1.000	0.000	
1.000	1.000	0.000	0.000	0.000	Ug5_2_8_L_0						
7 D	2.957	2.5841E-04	1.935	12.72	12.00	12.72	V-C	2.3371E+04	-1.200	2.065	
1.000	1.000	14.79	0.000	0.000	Ug5_2_8_L_0						
8 D	3.537	2.4565E-04	3.871	13.55	14.00	13.55	V-C	2.3371E+04	-1.400	4.129	
1.000	1.000	17.68	0.000	0.000	Ug5_2_8_L_0						
9 D	4.102	2.3303E-04	5.806	14.32	16.00	14.32	V-C	2.3371E+04	-1.600	6.194	
1.000	1.000	20.51	0.000	0.000	Ug5_2_8_L_0						
10 D	4.661	2.2059E-04	7.742	15.05	18.00	15.05	V-C	2.3371E+04	-1.800	8.258	
1.000	1.000	23.31	0.000	0.000	Ug5_2_8_L_0						
11 D	5.217	2.0837E-04	9.677	15.76	20.00	15.76	V-C	2.3371E+04	-2.000	10.32	
1.000	1.000	26.09	0.000	0.000	Ug5_2_8_L_0						
12 D	5.771	1.9642E-04	11.61	16.47	22.00	16.47	V-C	2.3371E+04	-2.200	12.39	
1.000	1.000	28.86	0.000	0.000	Ug5_2_8_L_0						
13 D	6.325	1.8476E-04	13.55	17.17	24.00	17.17	V-C	2.3371E+04	-2.400	14.45	
1.000	1.000	31.63	0.000	0.000	Ug5_2_8_L_0						
14 D	6.880	1.7345E-04	15.48	17.88	26.00	17.88	V-C	2.3371E+04	-2.600	16.52	
1.000	1.000	34.40	0.000	0.000	Ug5_2_8_L_0						
15 D	7.435	1.6251E-04	17.42	18.59	28.00	18.59	V-C	2.3371E+04	-2.800	18.58	
1.000	1.000	37.17	0.000	0.000	Ug5_2_8_L_0						
16 D	7.991	1.5197E-04	19.35	19.31	30.00	19.31	V-C	2.3371E+04	-3.000	20.65	
1.000	1.000	39.96	0.000	0.000	Ug5_2_8_L_0						
17 D	8.549	1.4188E-04	21.29	20.04	32.00	20.04	V-C	2.3371E+04	-3.200	22.71	
1.000	1.000	42.75	0.000	0.000	Ug5_2_8_L_0						
18 D	9.109	1.3224E-04	23.23	20.77	34.00	20.77	V-C	2.3371E+04	-3.400	24.77	
1.000	1.000	45.55	0.000	0.000	Ug5_2_8_L_0						
19 D	9.671	1.2309E-04	25.16	21.52	36.00	21.52	V-C	2.3371E+04	-3.600	26.84	
1.000	1.000	48.36	0.000	0.000	Ug5_2_8_L_0						
20 D	10.24	1.1444E-04	27.10	22.27	38.00	22.27	V-C	2.3371E+04	-3.800	28.90	
1.000	1.000	51.18	0.000	0.000	Ug5_2_8_L_0						
21 D	10.80	1.0632E-04	29.03	23.04	40.00	23.04	V-C	2.3371E+04	-4.000	30.97	
1.000	1.000	54.01	0.000	0.000	Ug5_2_8_L_0						
22 D	11.37	9.8720E-05	30.97	23.83	42.00	23.83	V-C	2.3371E+04	-4.200	33.03	
1.000	1.000	56.86	0.000	0.000	Ug5_2_8_L_0						
23 D	11.94	9.1661E-05	32.90	24.62	44.00	24.62	V-C	2.3371E+04	-4.400	35.10	
1.000	1.000	59.72	0.000	0.000	Ug5_2_8_L_0						
24 D	12.52	8.5138E-05	34.84	25.43	46.00	25.43	V-C	2.3371E+04	-4.600	37.16	
1.000	1.000	62.59	0.000	0.000	Ug5_2_8_L_0						
25 D	13.09	7.9145E-05	36.77	26.25	48.00	26.25	V-C	2.3371E+04	-4.800	39.23	
1.000	1.000	65.47	0.000	0.000	Ug5_2_8_L_0						
26 D	13.67	7.3672E-05	38.71	27.08	50.00	27.08	V-C	2.3371E+04	-5.000	41.29	
1.000	1.000	68.37	0.000	0.000	Ug5_2_8_L_0						
27 D	14.26	6.8701E-05	40.65	27.92	52.00	27.92	V-C	2.3371E+04	-5.200	43.35	
1.000	1.000	71.28	0.000	0.000	Ug5_2_8_L_0						
28 D	14.84	6.4215E-05	42.58	28.78	54.00	28.78	V-C	2.3371E+04	-5.400	45.42	
1.000	1.000	74.20	0.000	0.000	Ug5_2_8_L_0						
29 D	15.43	6.0189E-05	44.52	29.64	56.00	29.64	V-C	2.3371E+04	-5.600	47.48	
1.000	1.000	77.13	0.000	0.000	Ug5_2_8_L_0						
30 D	16.01	5.6601E-05	46.45	30.52	58.00	30.52	V-C	2.3371E+04	-5.800	49.55	
1.000	1.000	80.07	0.000	0.000	Ug5_2_8_L_0						
31 D	16.60	5.3423E-05	48.39	31.41	60.00	31.41	V-C	2.3371E+04	-6.000	51.61	
1.000	1.000	83.02	0.000	0.000	Ug5_2_8_L_0						
32 D	17.20	5.0630E-05	50.32	32.31	62.00	32.31	V-C	2.3371E+04	-6.200	53.68	
1.000	1.000	85.99	0.000	0.000	Ug5_2_8_L_0						
33 D	17.79	4.8194E-05	52.26	33.22	64.00	33.22	V-C	2.3371E+04	-6.400	55.74	

1.000	1.000	88.96	0.000	0.000	Ug5_2_8_L_0					
34 D	18.37	4.6087E-05	54.19	34.07	66.00	34.16	UL-RL	7.0113E+04	-6.600	57.81
1.000	1.000	91.87	0.000	0.000	Ug5_2_8_L_0					
35 D	18.96	4.4283E-05	56.13	34.92	68.00	35.12	UL-RL	7.0113E+04	-6.800	59.87
1.000	1.000	94.80	0.000	0.000	Ug5_2_8_L_0					
36 D	19.55	4.2756E-05	58.06	35.80	70.00	36.08	UL-RL	7.0113E+04	-7.000	61.94
1.000	1.000	97.74	0.000	0.000	Ug5_2_8_L_0					
37 D	20.14	4.1481E-05	60.00	36.70	72.00	37.03	UL-RL	7.0113E+04	-7.200	64.00
1.000	1.000	100.7	0.000	0.000	Ug5_2_8_L_0					
38 D	20.74	4.0433E-05	61.94	37.61	74.00	37.99	UL-RL	7.0113E+04	-7.400	66.06
1.000	1.000	103.7	0.000	0.000	Ug5_2_8_L_0					
39 D	21.33	3.9591E-05	63.87	38.54	76.00	38.95	UL-RL	7.0113E+04	-7.600	68.13
1.000	1.000	106.7	0.000	0.000	Ug5_2_8_L_0					
40 D	21.93	3.8933E-05	65.81	39.47	78.00	39.92	UL-RL	7.0113E+04	-7.800	70.19
1.000	1.000	109.7	0.000	0.000	Ug5_2_8_L_0					
41 D	22.53	3.8442E-05	67.74	40.39	80.00	40.89	UL-RL	7.0113E+04	-8.000	72.26
1.000	1.000	112.7	0.000	0.000	Ug5_2_8_L_0					
42 D	23.13	3.8098E-05	69.68	41.33	82.00	41.86	UL-RL	7.0113E+04	-8.200	74.32
1.000	1.000	115.7	0.000	0.000	Ug5_2_8_L_0					
43 D	23.73	3.7887E-05	71.61	42.28	84.00	42.84	UL-RL	7.0113E+04	-8.400	76.39
1.000	1.000	118.7	0.000	0.000	Ug5_2_8_L_0					
44 D	24.34	3.7795E-05	73.55	43.23	86.00	43.82	UL-RL	7.0113E+04	-8.600	78.45
1.000	1.000	121.7	0.000	0.000	Ug5_2_8_L_0					
45 D	24.94	3.7809E-05	75.48	44.19	88.00	44.79	UL-RL	7.0113E+04	-8.800	80.52
1.000	1.000	124.7	0.000	0.000	Ug5_2_8_L_0					
46 D	25.55	3.7918E-05	77.42	45.17	90.00	45.77	UL-RL	7.0113E+04	-9.000	82.58
1.000	1.000	127.7	0.000	0.000	Ug5_2_8_L_0					
47 D	26.16	3.8115E-05	79.35	46.14	92.00	46.75	UL-RL	7.0113E+04	-9.200	84.65
1.000	1.000	130.8	0.000	0.000	Ug5_2_8_L_0					
48 D	26.77	3.8390E-05	81.29	47.13	94.00	47.73	UL-RL	7.0113E+04	-9.400	86.71
1.000	1.000	133.8	0.000	0.000	Ug5_2_8_L_0					
49 D	27.38	3.8738E-05	83.23	48.12	96.00	48.71	UL-RL	7.0113E+04	-9.600	88.77
1.000	1.000	136.9	0.000	0.000	Ug5_2_8_L_0					
50 D	27.99	3.9152E-05	85.16	49.11	98.00	49.69	UL-RL	7.0113E+04	-9.800	90.84
1.000	1.000	139.9	0.000	0.000	Ug5_2_8_L_0					
51 D	28.60	3.9630E-05	87.10	50.11	100.00	50.67	UL-RL	7.0113E+04	-10.000	92.90
1.000	1.000	143.0	0.000	0.000	Ug5_2_8_L_0					
52 D	29.22	4.0165E-05	89.03	51.11	102.0	51.65	UL-RL	7.0113E+04	-10.200	94.97
1.000	1.000	146.1	0.000	0.000	Ug5_2_8_L_0					
53 D	29.83	4.0757E-05	90.97	52.12	104.0	52.63	UL-RL	7.0113E+04	-10.400	97.03
1.000	1.000	149.2	0.000	0.000	Ug5_2_8_L_0					
54 D	30.45	4.1401E-05	92.90	53.13	106.0	53.61	UL-RL	7.0113E+04	-10.600	99.10
1.000	1.000	152.2	0.000	0.000	Ug5_2_8_L_0					
55 D	31.06	4.2094E-05	94.84	54.15	108.0	54.60	UL-RL	7.0113E+04	-10.800	101.2
1.000	1.000	155.3	0.000	0.000	Ug5_2_8_L_0					
56 D	31.68	4.2834E-05	96.77	55.17	110.0	55.58	UL-RL	7.0113E+04	-11.000	103.2
1.000	1.000	158.4	0.000	0.000	Ug5_2_8_L_0					
57 D	32.30	4.3617E-05	98.71	56.19	112.0	56.56	UL-RL	7.0113E+04	-11.200	105.3
1.000	1.000	161.5	0.000	0.000	Ug5_2_8_L_0					
58 D	32.92	4.4439E-05	100.6	57.22	114.0	57.55	UL-RL	7.0113E+04	-11.400	107.4
1.000	1.000	164.6	0.000	0.000	Ug5_2_8_L_0					
59 D	33.53	4.5294E-05	102.6	58.25	116.0	58.53	UL-RL	7.0113E+04	-11.600	109.4
1.000	1.000	167.7	0.000	0.000	Ug5_2_8_L_0					
60 D	34.15	4.6177E-05	104.5	59.28	118.0	59.52	UL-RL	7.0113E+04	-11.800	111.5
1.000	1.000	170.8	0.000	0.000	Ug5_2_8_L_0					
61 D	34.77	4.7078E-05	106.5	60.32	120.0	60.50	UL-RL	7.0113E+04	-12.000	113.5
1.000	1.000	173.9	0.000	0.000	Ug5_2_8_L_0					
62 D	35.21	4.7988E-05	108.2	60.42	121.8	61.39	UL-RL	5.2723E+04	-12.200	115.6
1.000	1.000	176.0	0.000	0.000	Ug6_741_743_L_0					
63 D	35.80	4.8895E-05	109.9	61.33	123.6	62.28	UL-RL	5.2723E+04	-12.400	117.7
1.000	1.000	179.0	0.000	0.000	Ug6_741_743_L_0					
64 D	36.40	4.9789E-05	111.7	62.25	125.4	63.16	UL-RL	5.2723E+04	-12.600	119.7
1.000	1.000	182.0	0.000	0.000	Ug6_741_743_L_0					
65 D	37.00	5.0664E-05	113.4	63.17	127.2	64.05	UL-RL	5.2723E+04	-12.800	121.8
1.000	1.000	185.0	0.000	0.000	Ug6_741_743_L_0					
66 D	37.59	5.1513E-05	115.1	64.09	129.0	64.94	UL-RL	5.2723E+04	-13.000	123.9
1.000	1.000	188.0	0.000	0.000	Ug6_741_743_L_0					
67 D	38.19	5.2334E-05	116.9	65.00	130.8	65.83	UL-RL	5.2723E+04	-13.200	125.9
1.000	1.000	190.9	0.000	0.000	Ug6_741_743_L_0					
68 D	38.78	5.3122E-05	118.6	65.92	132.6	66.72	UL-RL	5.2723E+04	-13.400	128.0
1.000	1.000	193.9	0.000	0.000	Ug6_741_743_L_0					
69 D	39.38	5.3879E-05	120.3	66.83	134.4	67.60	UL-RL	5.2723E+04	-13.600	130.1
1.000	1.000	196.9	0.000	0.000	Ug6_741_743_L_0					
70 D	39.97	5.4604E-05	122.1	67.74	136.2	68.49	UL-RL	5.2723E+04	-13.800	132.1
1.000	1.000	199.9	0.000	0.000	Ug6_741_743_L_0					
71 D	40.57	5.5299E-05	123.8	68.65	138.0	69.38	UL-RL	5.2723E+04	-14.000	134.2
1.000	1.000	202.8	0.000	0.000	Ug6_741_743_L_0					
72 D	41.16	5.5967E-05	125.5	69.56	139.8	70.27	UL-RL	5.2723E+04	-14.200	136.3
1.000	1.000	205.8	0.000	0.000	Ug6_741_743_L_0					
73 D	41.76	5.6609E-05	127.3	70.47	141.6	71.16	UL-RL	5.2723E+04	-14.400	138.3
1.000	1.000	208.8	0.000	0.000	Ug6_741_743_L_0					
74 D	42.35	5.7230E-05	129.0	71.38	143.4	72.05	UL-RL	5.2723E+04	-14.600	140.4
1.000	1.000	211.8	0.000	0.000	Ug6_741_743_L_0					
75 D	42.95	5.7833E-05	130.7	72.29	145.2	72.94	UL-RL	5.2723E+04	-14.800	142.5
1.000	1.000	214.7	0.000	0.000	Ug6_741_743_L_0					
76 D	43.54	5.8422E-05	132.5	73.19	147.0	73.84	UL-RL	5.2723E+04	-15.000	144.5
1.000	1.000	217.7	0.000	0.000	Ug6_741_743_L_0					
77 D	44.14	5.9000E-05	134.2	74.10	148.8	74.73	UL-RL	5.2723E+04	-15.200	146.6
1.000	1.000	220.7	0.000	0.000	Ug6_741_743_L_0					
78 D	44.73	5.9571E-05	136.0	75.00	150.6	75.62	UL-RL	5.2723E+04	-15.400	148.6
1.000	1.000	223.6	0.000	0.000	Ug6_741_743_L_0					

79 D	45.32	6.0137E-05	137.7	75.91	152.4	76.51	UL-RL	5.2723E+04	-15.60	150.7
1.000	1.000	226.6	0.000	0.000	Ug6_741_743_L_0					
80 D	45.92	6.0701E-05	139.4	76.82	154.2	77.40	UL-RL	5.2723E+04	-15.80	152.8
1.000	1.000	229.6	0.000	0.000	Ug6_741_743_L_0					
81 D	23.26	6.1265E-05	141.2	77.72	156.0	78.29	UL-RL	5.2723E+04	-16.00	154.8
1.000	1.000	232.6	0.000	0.000	Ug6_741_743_L_0					

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|                PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*          |
|                                                                                                                                           |
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|                                                                                                                                           |
|                NewProject.BaseDesignSection_28.Nominal_63                                     |
|                Exe Time :24 May 2018           18:25:47                                       |
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New Project

STRESS RESULTS FOR GROUP NO. 3

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WallElement_33      :
ELEMENT TYPE      2 NO.OF ELEMENTS. IN THIS GROUP  80
CURRENT TIME IS    2.0000

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WALL2D ELEMENT

EL	TA	TB	MA	MB
1	2.23893E-11	-2.23893E-11	2.25064E-12	1.20439E-12
2	0.49031	-0.49031	-2.30307E-12	9.80625E-02
3	1.4730	-1.4730	-9.80625E-02	0.39265
4	2.9505	-2.9505	-0.39265	0.98276
5	4.9250	-4.9250	-0.98276	1.9678
6	7.3971	-7.3971	-1.9678	3.4472
7	7.4097	-7.4097	-3.4472	4.9291
8	7.3461	-7.3461	-4.9291	6.3984
9	7.2219	-7.2219	-6.3984	7.8427
10	7.0329	-7.0329	-7.8427	9.2493
11	6.7888	-6.7888	-9.2493	10.607
12	6.4897	-6.4897	-10.607	11.905
13	6.1285	-6.1285	-11.905	13.131
14	5.7102	-5.7102	-13.131	14.273
15	5.2330	-5.2330	-14.273	15.319
16	4.6950	-4.6950	-15.319	16.258
17	4.0892	-4.0892	-16.258	17.076
18	3.4181	-3.4181	-17.076	17.760
19	2.6791	-2.6791	-17.760	18.296
20	1.8657	-1.8657	-18.296	18.669
21	0.97920	-0.97920	-18.669	18.865
22	1.68070E-02	-1.68070E-02	-18.865	18.868
23	-1.0276	1.0276	-18.868	18.662
24	-2.0086	2.0086	-18.662	18.261
25	-2.8113	2.8113	-18.261	17.698
26	-3.4527	3.4527	-17.698	17.008
27	-3.9493	3.9493	-17.008	16.218
28	-4.3171	4.3171	-16.218	15.355
29	-4.5712	4.5712	-15.355	14.440
30	-4.7258	4.7258	-14.440	13.495
31	-4.7945	4.7945	-13.495	12.536
32	-4.7899	4.7899	-12.536	11.578
33	-4.7261	4.7261	-11.578	10.633
34	-4.5960	4.5960	-10.633	9.7140
35	-4.4123	4.4123	-9.7140	8.8316
36	-4.1864	4.1864	-8.8316	7.9943
37	-3.9289	3.9289	-7.9943	7.2085
38	-3.6492	3.6492	-7.2085	6.4786
39	-3.3557	3.3557	-6.4786	5.8075
40	-3.0545	3.0545	-5.8075	5.1966
41	-2.7491	2.7491	-5.1966	4.6468
42	-2.4457	2.4457	-4.6468	4.1576
43	-2.1499	2.1499	-4.1576	3.7277
44	-1.8668	1.8668	-3.7277	3.3543
45	-1.6006	1.6006	-3.3543	3.0342
46	-1.3556	1.3556	-3.0342	2.7631
47	-1.1353	1.1353	-2.7631	2.5360
48	-0.94300	0.94300	-2.5360	2.3474
49	-0.78181	0.78181	-2.3474	2.1910
50	-0.65454	0.65454	-2.1910	2.0601
51	-0.56379	0.56379	-2.0601	1.9474
52	-0.51204	0.51204	-1.9474	1.8450
53	-0.50161	0.50161	-1.8450	1.7447
54	-0.53473	0.53473	-1.7447	1.6377
55	-0.61347	0.61347	-1.6377	1.5150
56	-0.73980	0.73980	-1.5150	1.3671
57	-0.91551	0.91551	-1.3671	1.1840
58	-1.1422	1.1422	-1.1840	0.95551
59	-1.4214	1.4214	-0.95551	0.67122
60	-1.7541	1.7541	-0.67122	0.32040
61	-2.1412	2.1412	-0.32040	-0.10783
62	-1.7105	1.7105	0.10783	-0.44993
63	-1.3178	1.3178	0.44993	-0.71349
64	-0.96296	0.96296	0.71349	-0.90609
65	-0.64535	0.64535	0.90609	-1.0352
66	-0.36440	0.36440	1.0352	-1.1080
67	-0.11940	0.11940	1.1080	-1.1319
68	9.04039E-02	-9.04039E-02	1.1319	-1.1138
69	0.26579	-0.26579	1.1138	-1.0607

70 0.40752 -0.40752 1.0607 -0.97918  
 71 0.51632 -0.51632 0.97918 -0.87591  
 72 0.59286 -0.59286 0.87591 -0.75734  
 73 0.63774 -0.63774 0.75734 -0.62979  
 74 0.65148 -0.65148 0.62979 -0.49949  
 75 0.63452 -0.63452 0.49949 -0.37259  
 76 0.58719 -0.58719 0.37259 -0.25515  
 77 0.50976 -0.50976 0.25515 -0.15320  
 78 0.40241 -0.40241 0.15320 -7.27173E-02  
 79 0.26525 -0.26525 7.27173E-02-1.96671E-02  
 80 9.83304E-02-9.83304E-02 1.96671E-02-1.32638E-12

ITER 0 RNORM = 0.000 RMNORM= 0.000  
 RINORM=0.1045E+06 RIMNOR=0.1292E+05  
 RENORM= 367.3 REMNOR=0.1304E-21 RATIO =0.5929E-01 TOLER =0.1000E-03 NOT CONVERGED  
 RFMAX = 45.21 RMMAX = 18.87  
 RTSMAL=0.1000E-03 RMSMAL=0.1000E-03  
 RDT =0.1045E+06 RDR =0.1292E+05  
 RATIOI=0.5929E-01 RATIOOR= 0.000  
 MAX UN= 5.148 IEQ= 21 NODE 11 DOF 1 Y-DISPL.F  
 MIN UN=-.3441E-01 IEQ= 11 NODE 6 DOF 1 Y-DISPL.F  
 NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 2 RNORM = 0.000 RMNORM= 0.000  
 RINORM=0.1045E+06 RIMNOR=0.1292E+05  
 RENORM= 83.97 REMNOR=0.1582E-20 RATIO =0.2835E-01 TOLER =0.1000E-03 NOT CONVERGED  
 RFMAX = 45.21 RMMAX = 18.87  
 RTSMAL=0.1000E-03 RMSMAL=0.1000E-03  
 RDT =0.1045E+06 RDR =0.1292E+05  
 RATIOI=0.2835E-01 RATIOOR= 0.000  
 MAX UN= 2.654 IEQ= 23 NODE 12 DOF 1 Y-DISPL.F  
 MIN UN=-.3455E-02 IEQ= 3 NODE 2 DOF 1 Y-DISPL.F  
 NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 3 RNORM = 0.000 RMNORM= 0.000  
 RINORM=0.1045E+06 RIMNOR=0.1292E+05  
 RENORM= 55.84 REMNOR=0.3330E-19 RATIO =0.2312E-01 TOLER =0.1000E-03 NOT CONVERGED  
 RFMAX = 45.21 RMMAX = 18.87  
 RTSMAL=0.1000E-03 RMSMAL=0.1000E-03  
 RDT =0.1045E+06 RDR =0.1292E+05  
 RATIOI=0.2312E-01 RATIOOR= 0.000  
 MAX UN= 4.539 IEQ= 59 NODE 30 DOF 1 Y-DISPL.F  
 MIN UN=-.1222E-08 IEQ= 19 NODE 10 DOF 1 Y-DISPL.F  
 NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 4 RNORM = 0.000 RMNORM= 0.000  
 RINORM=0.1045E+06 RIMNOR=0.1292E+05  
 RENORM= 1.837 REMNOR=0.9476E-20 RATIO =0.4193E-02 TOLER =0.1000E-03 NOT CONVERGED  
 RFMAX = 45.21 RMMAX = 18.87  
 RTSMAL=0.1000E-03 RMSMAL=0.1000E-03  
 RDT =0.1045E+06 RDR =0.1292E+05  
 RATIOI=0.4193E-02 RATIOOR= 0.000  
 MAX UN= 1.168 IEQ= 73 NODE 37 DOF 1 Y-DISPL.F  
 MIN UN=-.3879E-09 IEQ= 3 NODE 2 DOF 1 Y-DISPL.F  
 NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 5 RNORM = 0.000 RMNORM= 0.000  
 RINORM=0.1045E+06 RIMNOR=0.1292E+05  
 RENORM=0.3424E-17 REMNOR=0.1057E-19 RATIO =0.5725E-11 TOLER =0.1000E-03 CONVERGED !  
 RFMAX = 45.21 RMMAX = 18.87  
 RTSMAL=0.1000E-03 RMSMAL=0.1000E-03  
 RDT =0.1045E+06 RDR =0.1292E+05  
 RATIOI=0.5725E-11 RATIOOR= 0.000  
 MAX UN=0.7462E-09 IEQ= 13 NODE 7 DOF 1 Y-DISPL.F  
 MIN UN=-.6707E-09 IEQ= 15 NODE 8 DOF 1 Y-DISPL.F  
 NO. OF CONTACT CONSTRAINT VIOLATIONS 0

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
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New Project
SOLUTION REACHED USING      5 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   3   ( AT TIME  3.000   )

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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	2.1251918E-03	-3.3729961E-04	
2	2.0577319E-03	-3.3729961E-04	
3	1.9902724E-03	-3.3729278E-04	
4	1.9228166E-03	-3.3725859E-04	
5	1.8553731E-03	-3.3716276E-04	
6	1.7879588E-03	-3.3695717E-04	
7	1.7206016E-03	-3.3657987E-04	
8	1.6533433E-03	-3.3595499E-04	
9	1.5862421E-03	-3.3499274E-04	
10	1.5193757E-03	-3.3358927E-04	
11	1.4528437E-03	-3.3162680E-04	
12	1.3867710E-03	-3.2897368E-04	
13	1.3213072E-03	-3.2552618E-04	
14	1.2566157E-03	-3.2125056E-04	
15	1.1928599E-03	-3.1618036E-04	
16	1.1301923E-03	-3.1037998E-04	
17	1.0687522E-03	-3.0391091E-04	
18	1.0086682E-03	-2.9683193E-04	
19	9.5005637E-04	-2.8919908E-04	
20	8.9302198E-04	-2.8106579E-04	
21	8.3766029E-04	-2.7248315E-04	
22	7.8405570E-04	-2.6349989E-04	
23	7.3228392E-04	-2.5416277E-04	
24	6.8241119E-04	-2.4451665E-04	
25	6.3449498E-04	-2.3460476E-04	
26	5.8858422E-04	-2.2446886E-04	
27	5.4471988E-04	-2.1414951E-04	
28	5.0293424E-04	-2.0368615E-04	
29	4.6325243E-04	-1.9311764E-04	
30	4.2569165E-04	-1.8248223E-04	
31	3.9026146E-04	-1.7181794E-04	
32	3.5696403E-04	-1.6116278E-04	
33	3.2579337E-04	-1.5055482E-04	
34	2.9673637E-04	-1.4003272E-04	
35	2.6977194E-04	-1.2963578E-04	
36	2.4487104E-04	-1.1940421E-04	
37	2.2199659E-04	-1.0937939E-04	
38	2.0110277E-04	-9.9603957E-05	
39	1.8213542E-04	-9.0122291E-05	
40	1.6503119E-04	-8.0980535E-05	
41	1.4971759E-04	-7.2222966E-05	
42	1.3611398E-04	-6.3885809E-05	
43	1.2413348E-04	-5.5995476E-05	
44	1.1368481E-04	-4.8569843E-05	
45	1.0467390E-04	-4.1619483E-05	
46	9.7005123E-05	-3.5148222E-05	
47	9.0582842E-05	-2.9153546E-05	
48	8.5312486E-05	-2.3627154E-05	
49	8.1101620E-05	-1.8556166E-05	
50	7.7860765E-05	-1.3924225E-05	
51	7.5503939E-05	-9.7123977E-06	
52	7.3949134E-05	-5.9001271E-06	
53	7.3118640E-05	-2.4664968E-06	
54	7.2938789E-05	6.1023970E-07	
55	7.3340308E-05	3.3505644E-06	
56	7.4257882E-05	5.7738970E-06	
57	7.5629910E-05	7.8978762E-06	
58	7.7398101E-05	9.7378829E-06	
59	7.9506979E-05	1.1306623E-05	
60	8.1903310E-05	1.2613764E-05	
61	8.4535466E-05	1.3665630E-05	
62	8.7352725E-05	1.4464940E-05	
63	9.0305904E-05	1.5031179E-05	
64	9.3352109E-05	1.5401102E-05	
65	9.6455525E-05	1.5608734E-05	
66	9.9586867E-05	1.5685333E-05	
67	1.0272282E-04	1.5659369E-05	
68	1.0584549E-04	1.5556521E-05	
69	1.0894183E-04	1.5399683E-05	
70	1.1200310E-04	1.5208978E-05	
71	1.1502432E-04	1.5001784E-05	
72	1.1800370E-04	1.4792755E-05	
73	1.2094210E-04	1.4593849E-05	



74	1.2384253E-04	1.4414356E-05
75	1.2670958E-04	1.4260922E-05
76	1.2954890E-04	1.4137571E-05
77	1.3236671E-04	1.4045726E-05
78	1.3516922E-04	1.3984221E-05
79	1.3796217E-04	1.3949319E-05
80	1.4075030E-04	1.3934714E-05
81	1.4353696E-04	1.3931536E-05

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|                PARATIEPLUS(TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION *Build date:Jul 11, 2017*                |
|                                                                                                                                            |
|                                                                                                                                            |
|                NewProject.BaseDesignSection_28.Nominal_63                                                                              |
|                Exe Time :24 May 2018      18:25:47                                                                              |
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New Project

STRESS RESULTS FOR GROUP NO. 1

0\_L  
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 81  
CURRENT TIME IS 3.0000

HARDENING 2D SOIL ELEMENT

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

EL * FACTOR	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
1 D	0.000	-2.1252E-03	0.000	0.000	0.000	0.000	ACTIVE	0.000	0.000	0.000	
1.000	1.000	0.000	0.000	0.000	Ug5_2_8_L_0						
2 D	0.4800	-2.0577E-03	2.141	0.5332	2.141	1.603	ACTIVE	0.000	-0.2000	1.867	
1.000	1.000	2.400	0.000	0.000	Ug5_2_8_L_0						
3 D	0.9620	-1.9903E-03	4.323	1.077	4.323	3.119	ACTIVE	0.000	-0.4000	3.733	
1.000	1.000	4.810	0.000	0.000	Ug5_2_8_L_0						
4 D	1.447	-1.9228E-03	6.558	1.633	6.558	4.509	ACTIVE	0.000	-0.6000	5.600	
1.000	1.000	7.233	0.000	0.000	Ug5_2_8_L_0						
5 D	1.933	-1.8554E-03	8.831	2.199	8.831	5.780	ACTIVE	0.000	-0.8000	7.467	
1.000	1.000	9.665	0.000	0.000	Ug5_2_8_L_0						
6 D	2.420	-1.7880E-03	11.12	2.769	11.12	6.958	ACTIVE	0.000	-1.000	9.333	
1.000	1.000	12.10	0.000	0.000	Ug5_2_8_L_0						
7 D	2.908	-1.7206E-03	13.41	3.339	13.41	8.073	ACTIVE	0.000	-1.200	11.20	
1.000	1.000	14.54	0.000	0.000	Ug5_2_8_L_0						
8 D	3.401	-1.6533E-03	15.81	3.936	15.81	9.145	ACTIVE	0.000	-1.400	13.07	
1.000	1.000	17.00	0.000	0.000	Ug5_2_8_L_0						
9 D	3.895	-1.5862E-03	18.24	4.542	18.24	10.19	ACTIVE	0.000	-1.600	14.93	
1.000	1.000	19.48	0.000	0.000	Ug5_2_8_L_0						
10 D	4.379	-1.5194E-03	20.46	5.096	20.46	11.22	ACTIVE	0.000	-1.800	16.80	
1.000	1.000	21.90	0.000	0.000	Ug5_2_8_L_0						
11 D	4.870	-1.4528E-03	22.82	5.682	22.82	12.23	ACTIVE	0.000	-2.000	18.67	
1.000	1.000	24.35	0.000	0.000	Ug5_2_8_L_0						
12 D	5.358	-1.3868E-03	25.14	6.259	25.14	13.24	ACTIVE	0.000	-2.200	20.53	
1.000	1.000	26.79	0.000	0.000	Ug5_2_8_L_0						
13 D	5.840	-1.3213E-03	27.31	6.800	27.31	14.24	ACTIVE	0.000	-2.400	22.40	
1.000	1.000	29.20	0.000	0.000	Ug5_2_8_L_0						
14 D	6.327	-1.2566E-03	29.59	7.368	29.59	15.24	ACTIVE	0.000	-2.600	24.27	
1.000	1.000	31.63	0.000	0.000	Ug5_2_8_L_0						
15 D	6.813	-1.1929E-03	31.85	7.931	31.85	16.23	ACTIVE	0.000	-2.800	26.13	
1.000	1.000	34.06	0.000	0.000	Ug5_2_8_L_0						
16 D	7.298	-1.1302E-03	34.10	8.490	34.10	17.23	ACTIVE	0.000	-3.000	28.00	
1.000	1.000	36.49	0.000	0.000	Ug5_2_8_L_0						
17 D	7.778	-1.0688E-03	36.24	9.024	36.24	18.22	ACTIVE	0.000	-3.200	29.87	
1.000	1.000	38.89	0.000	0.000	Ug5_2_8_L_0						
18 D	8.262	-1.0087E-03	38.47	9.579	38.47	19.21	ACTIVE	0.000	-3.400	31.73	
1.000	1.000	41.31	0.000	0.000	Ug5_2_8_L_0						
19 D	8.746	-9.5006E-04	40.69	10.13	40.69	20.21	ACTIVE	0.000	-3.600	33.60	
1.000	1.000	43.73	0.000	0.000	Ug5_2_8_L_0						
20 D	9.226	-8.9302E-04	42.82	10.66	42.82	21.20	ACTIVE	0.000	-3.800	35.47	
1.000	1.000	46.13	0.000	0.000	Ug5_2_8_L_0						
21 D	9.709	-8.3766E-04	45.03	11.21	45.03	22.19	ACTIVE	0.000	-4.000	37.33	
1.000	1.000	48.55	0.000	0.000	Ug5_2_8_L_0						
22 D	10.19	-7.8406E-04	47.23	11.76	47.23	23.18	ACTIVE	0.000	-4.200	39.20	
1.000	1.000	50.96	0.000	0.000	Ug5_2_8_L_0						
23 D	10.67	-7.3228E-04	49.36	12.29	49.36	24.18	ACTIVE	0.000	-4.400	41.07	
1.000	1.000	53.36	0.000	0.000	Ug5_2_8_L_0						
24 D	11.15	-6.8241E-04	51.55	12.84	51.55	25.17	ACTIVE	0.000	-4.600	42.93	
1.000	1.000	55.77	0.000	0.000	Ug5_2_8_L_0						
25 D	11.64	-6.3449E-04	53.74	13.38	53.74	26.17	ACTIVE	0.000	-4.800	44.80	
1.000	1.000	58.18	0.000	0.000	Ug5_2_8_L_0						
26 D	12.12	-5.8858E-04	55.92	13.92	55.92	27.16	ACTIVE	0.000	-5.000	46.67	
1.000	1.000	60.59	0.000	0.000	Ug5_2_8_L_0						
27 D	12.60	-5.4472E-04	58.05	14.45	58.05	28.16	ACTIVE	0.000	-5.200	48.53	
1.000	1.000	62.99	0.000	0.000	Ug5_2_8_L_0						
28 D	13.08	-5.0293E-04	60.23	15.00	60.23	29.16	ACTIVE	0.000	-5.400	50.40	
1.000	1.000	65.40	0.000	0.000	Ug5_2_8_L_0						
29 D	13.56	-4.6325E-04	62.40	15.54	62.40	30.15	ACTIVE	0.000	-5.600	52.27	
1.000	1.000	67.81	0.000	0.000	Ug5_2_8_L_0						
30 D	14.04	-4.2569E-04	64.53	16.07	64.53	31.15	ACTIVE	0.000	-5.800	54.13	
1.000	1.000	70.20	0.000	0.000	Ug5_2_8_L_0						
31 D	14.52	-3.9026E-04	66.70	16.61	66.70	32.15	ACTIVE	0.000	-6.000	56.00	
1.000	1.000	72.61	0.000	0.000	Ug5_2_8_L_0						
32 D	15.00	-3.5696E-04	68.87	17.15	68.87	33.15	ACTIVE	0.000	-6.200	57.87	
1.000	1.000	75.02	0.000	0.000	Ug5_2_8_L_0						
33 D	15.48	-3.2579E-04	70.99	17.68	70.99	34.15	ACTIVE	0.000	-6.400	59.73	



79 D	43.81	-1.3796E-04	165.5	73.45	165.5	79.03	UL-RL	5.4011E+04	-15.60	145.6
1.000	1.000	219.0	0.000	0.000	Ug6_741_743_L_0					
80 D	44.34	-1.4075E-04	167.4	74.25	167.4	79.95	UL-RL	5.4011E+04	-15.80	147.5
1.000	1.000	221.7	0.000	0.000	Ug6_741_743_L_0					
81 D	22.44	-1.4354E-04	169.3	75.05	169.3	80.88	UL-RL	5.4011E+04	-16.00	149.3
1.000	1.000	224.4	0.000	0.000	Ug6_741_743_L_0					

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|                PARATIEPLUS(TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION *Build date:Jul 11, 2017*                |
|                                                                                                                                            |
|                                                                                                                                            |
|                NewProject.BaseDesignSection_28.Nominal_63                                                                              |
|                Exe Time :24 May 2018      18:25:47                                                                              |
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New Project

STRESS RESULTS FOR GROUP NO. 2

0\_R :  
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 81  
CURRENT TIME IS 3.0000

HARDENING 2D SOIL ELEMENT

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

EL * FACTOR	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
1	0.000	--	--	--	--	--	REMOVED	--	0.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
2	0.000	--	--	--	--	--	REMOVED	--	-0.2000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
3	0.000	--	--	--	--	--	REMOVED	--	-0.4000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
4	0.000	--	--	--	--	--	REMOVED	--	-0.6000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
5	0.000	--	--	--	--	--	REMOVED	--	-0.8000	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	--	-1.200	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
8	0.000	--	--	--	--	--	REMOVED	--	-1.400	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
9	0.000	--	--	--	--	--	REMOVED	--	-1.600	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
10	0.000	--	--	--	--	--	REMOVED	--	-1.800	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
11 D	0.000	1.4528E-03	0.000	0.000	20.00	15.76	PASSIVE	0.000	-2.000	0.000	
1.000	1.000	0.000	0.000	0.000	Ug5_2_8_L_0						
12 D	2.942	1.3868E-03	1.867	12.58	22.00	16.47	PASSIVE	0.000	-2.200	2.133	
1.000	1.000	14.71	0.000	0.000	Ug5_2_8_L_0						
13 D	5.884	1.3213E-03	3.733	25.16	24.00	25.16	PASSIVE	0.000	-2.400	4.267	
1.000	1.000	29.42	0.000	0.000	Ug5_2_8_L_0						
14 D	8.640	1.2566E-03	5.600	36.80	26.00	36.80	V-C	1.8697E+04	-2.600	6.400	
1.000	1.000	43.20	0.000	0.000	Ug5_2_8_L_0						
15 D	9.024	1.1929E-03	7.467	36.59	28.00	36.59	V-C	1.8697E+04	-2.800	8.533	
1.000	1.000	45.12	0.000	0.000	Ug5_2_8_L_0						
16 D	9.408	1.1302E-03	9.333	36.37	30.00	36.37	V-C	1.8697E+04	-3.000	10.67	
1.000	1.000	47.04	0.000	0.000	Ug5_2_8_L_0						
17 D	9.794	1.0688E-03	11.20	36.17	32.00	36.17	V-C	1.8697E+04	-3.200	12.80	
1.000	1.000	48.97	0.000	0.000	Ug5_2_8_L_0						
18 D	10.18	1.0087E-03	13.07	35.99	34.00	35.99	V-C	1.8697E+04	-3.400	14.93	
1.000	1.000	50.92	0.000	0.000	Ug5_2_8_L_0						
19 D	10.58	9.5006E-04	14.93	35.83	36.00	35.83	V-C	1.8697E+04	-3.600	17.07	
1.000	1.000	52.89	0.000	0.000	Ug5_2_8_L_0						
20 D	10.98	8.9302E-04	16.80	35.69	38.00	35.69	V-C	1.8697E+04	-3.800	19.20	
1.000	1.000	54.89	0.000	0.000	Ug5_2_8_L_0						
21 D	11.39	8.3766E-04	18.67	35.59	40.00	35.59	V-C	1.8697E+04	-4.000	21.33	
1.000	1.000	56.93	0.000	0.000	Ug5_2_8_L_0						
22 D	11.80	7.8406E-04	20.53	35.52	42.00	35.52	V-C	1.8697E+04	-4.200	23.47	
1.000	1.000	58.99	0.000	0.000	Ug5_2_8_L_0						
23 D	12.22	7.3228E-04	22.40	35.49	44.00	35.49	V-C	1.8697E+04	-4.400	25.60	
1.000	1.000	61.09	0.000	0.000	Ug5_2_8_L_0						
24 D	12.64	6.8241E-04	24.27	35.49	46.00	35.49	V-C	1.8697E+04	-4.600	27.73	
1.000	1.000	63.22	0.000	0.000	Ug5_2_8_L_0						
25 D	13.08	6.3449E-04	26.13	35.53	48.00	35.53	V-C	1.8697E+04	-4.800	29.87	
1.000	1.000	65.40	0.000	0.000	Ug5_2_8_L_0						
26 D	13.52	5.8858E-04	28.00	35.61	50.00	35.61	V-C	1.8697E+04	-5.000	32.00	
1.000	1.000	67.61	0.000	0.000	Ug5_2_8_L_0						
27 D	13.97	5.4472E-04	29.87	35.73	52.00	35.73	V-C	1.8697E+04	-5.200	34.13	
1.000	1.000	69.86	0.000	0.000	Ug5_2_8_L_0						
28 D	14.43	5.0293E-04	31.73	35.89	54.00	35.89	V-C	1.8697E+04	-5.400	36.27	
1.000	1.000	72.15	0.000	0.000	Ug5_2_8_L_0						
29 D	14.90	4.6325E-04	33.60	36.09	56.00	36.09	V-C	1.8697E+04	-5.600	38.40	
1.000	1.000	74.49	0.000	0.000	Ug5_2_8_L_0						
30 D	15.37	4.2569E-04	35.47	36.33	58.00	36.33	V-C	1.8697E+04	-5.800	40.53	
1.000	1.000	76.86	0.000	0.000	Ug5_2_8_L_0						
31 D	15.86	3.9026E-04	37.33	36.62	60.00	36.62	V-C	1.8697E+04	-6.000	42.67	
1.000	1.000	79.28	0.000	0.000	Ug5_2_8_L_0						
32 D	16.35	3.5696E-04	39.20	36.94	62.00	36.94	V-C	1.8697E+04	-6.200	44.80	
1.000	1.000	81.74	0.000	0.000	Ug5_2_8_L_0						
33 D	16.85	3.2579E-04	41.07	37.31	64.00	37.31	V-C	1.8697E+04	-6.400	46.93	

1.000	1.000	84.25	0.000	0.000	Ug5_2_8_L_0					
34 D	17.36	2.9674E-04	42.93	37.72	66.00	37.72	V-C	1.8697E+04	-6.600	49.07
1.000	1.000	86.79	0.000	0.000	Ug5_2_8_L_0					
35 D	17.87	2.6977E-04	44.80	38.17	68.00	38.17	V-C	1.8697E+04	-6.800	51.20
1.000	1.000	89.37	0.000	0.000	Ug5_2_8_L_0					
36 D	18.40	2.4487E-04	46.67	38.66	70.00	38.66	V-C	1.8697E+04	-7.000	53.33
1.000	1.000	92.00	0.000	0.000	Ug5_2_8_L_0					
37 D	18.93	2.2200E-04	48.53	39.19	72.00	39.19	V-C	1.8697E+04	-7.200	55.47
1.000	1.000	94.66	0.000	0.000	Ug5_2_8_L_0					
38 D	19.47	2.0110E-04	50.40	39.76	74.00	39.76	V-C	1.8697E+04	-7.400	57.60
1.000	1.000	97.36	0.000	0.000	Ug5_2_8_L_0					
39 D	20.02	1.8214E-04	52.27	40.37	76.00	40.37	V-C	1.8697E+04	-7.600	59.73
1.000	1.000	100.1	0.000	0.000	Ug5_2_8_L_0					
40 D	20.58	1.6503E-04	54.13	41.01	78.00	41.01	V-C	1.8697E+04	-7.800	61.87
1.000	1.000	102.9	0.000	0.000	Ug5_2_8_L_0					
41 D	21.14	1.4972E-04	56.00	41.69	80.00	41.69	V-C	1.8697E+04	-8.000	64.00
1.000	1.000	105.7	0.000	0.000	Ug5_2_8_L_0					
42 D	21.71	1.3611E-04	57.87	42.40	82.00	42.40	V-C	1.8697E+04	-8.200	66.13
1.000	1.000	108.5	0.000	0.000	Ug5_2_8_L_0					
43 D	22.28	1.2413E-04	59.73	43.14	84.00	43.14	V-C	1.8697E+04	-8.400	68.27
1.000	1.000	111.4	0.000	0.000	Ug5_2_8_L_0					
44 D	22.86	1.1368E-04	61.60	43.92	86.00	43.92	V-C	1.8697E+04	-8.600	70.40
1.000	1.000	114.3	0.000	0.000	Ug5_2_8_L_0					
45 D	23.42	1.0467E-04	63.47	44.56	88.00	44.79	UL-RL	5.6090E+04	-8.800	72.53
1.000	1.000	117.1	0.000	0.000	Ug5_2_8_L_0					
46 D	23.95	9.7005E-05	65.33	45.08	90.00	45.77	UL-RL	5.6090E+04	-9.000	74.67
1.000	1.000	119.8	0.000	0.000	Ug5_2_8_L_0					
47 D	24.50	9.0583E-05	67.20	45.68	92.00	46.75	UL-RL	5.6090E+04	-9.200	76.80
1.000	1.000	122.5	0.000	0.000	Ug5_2_8_L_0					
48 D	25.05	8.5312E-05	69.07	46.34	94.00	47.73	UL-RL	5.6090E+04	-9.400	78.93
1.000	1.000	125.3	0.000	0.000	Ug5_2_8_L_0					
49 D	25.63	8.1102E-05	70.93	47.06	96.00	48.71	UL-RL	5.6090E+04	-9.600	81.07
1.000	1.000	128.1	0.000	0.000	Ug5_2_8_L_0					
50 D	26.21	7.7861E-05	72.80	47.84	98.00	49.69	UL-RL	5.6090E+04	-9.800	83.20
1.000	1.000	131.0	0.000	0.000	Ug5_2_8_L_0					
51 D	26.80	7.5504E-05	74.67	48.66	100.00	50.67	UL-RL	5.6090E+04	-10.00	85.33
1.000	1.000	134.0	0.000	0.000	Ug5_2_8_L_0					
52 D	27.40	7.3949E-05	76.53	49.54	102.0	51.65	UL-RL	5.6090E+04	-10.20	87.47
1.000	1.000	137.0	0.000	0.000	Ug5_2_8_L_0					
53 D	28.01	7.3119E-05	78.40	50.45	104.0	52.63	UL-RL	5.6090E+04	-10.40	89.60
1.000	1.000	140.1	0.000	0.000	Ug5_2_8_L_0					
54 D	28.63	7.2939E-05	80.27	51.40	106.0	53.61	UL-RL	5.6090E+04	-10.60	91.73
1.000	1.000	143.1	0.000	0.000	Ug5_2_8_L_0					
55 D	29.25	7.3340E-05	82.13	52.39	108.0	54.60	UL-RL	5.6090E+04	-10.80	93.87
1.000	1.000	146.3	0.000	0.000	Ug5_2_8_L_0					
56 D	29.88	7.4258E-05	84.00	53.41	110.0	55.58	UL-RL	5.6090E+04	-11.00	96.00
1.000	1.000	149.4	0.000	0.000	Ug5_2_8_L_0					
57 D	30.52	7.5630E-05	85.87	54.45	112.0	56.56	UL-RL	5.6090E+04	-11.20	98.13
1.000	1.000	152.6	0.000	0.000	Ug5_2_8_L_0					
58 D	31.16	7.7398E-05	87.73	55.52	114.0	57.55	UL-RL	5.6090E+04	-11.40	100.3
1.000	1.000	155.8	0.000	0.000	Ug5_2_8_L_0					
59 D	31.80	7.9507E-05	89.60	56.60	116.0	58.53	UL-RL	5.6090E+04	-11.60	102.4
1.000	1.000	159.0	0.000	0.000	Ug5_2_8_L_0					
60 D	32.45	8.1903E-05	91.47	57.70	118.0	59.52	UL-RL	5.6090E+04	-11.80	104.5
1.000	1.000	162.2	0.000	0.000	Ug5_2_8_L_0					
61 D	33.10	8.4535E-05	93.33	58.82	120.0	60.50	UL-RL	5.6090E+04	-12.00	106.7
1.000	1.000	165.5	0.000	0.000	Ug5_2_8_L_0					
62 D	33.45	8.7353E-05	95.00	58.46	121.8	61.39	UL-RL	4.2179E+04	-12.20	108.8
1.000	1.000	167.3	0.000	0.000	Ug6_741_743_L_0					
63 D	34.08	9.0306E-05	96.67	59.45	123.6	62.28	UL-RL	4.2179E+04	-12.40	110.9
1.000	1.000	170.4	0.000	0.000	Ug6_741_743_L_0					
64 D	34.70	9.3352E-05	98.33	60.45	125.4	63.16	UL-RL	4.2179E+04	-12.60	113.1
1.000	1.000	173.5	0.000	0.000	Ug6_741_743_L_0					
65 D	35.33	9.6456E-05	100.00	61.44	127.2	64.05	UL-RL	4.2179E+04	-12.80	115.2
1.000	1.000	176.6	0.000	0.000	Ug6_741_743_L_0					
66 D	35.96	9.9587E-05	101.7	62.44	129.0	64.94	UL-RL	4.2179E+04	-13.00	117.3
1.000	1.000	179.8	0.000	0.000	Ug6_741_743_L_0					
67 D	36.58	1.0272E-04	103.3	63.44	130.8	65.83	UL-RL	4.2179E+04	-13.20	119.5
1.000	1.000	182.9	0.000	0.000	Ug6_741_743_L_0					
68 D	37.21	1.0585E-04	105.0	64.44	132.6	66.72	UL-RL	4.2179E+04	-13.40	121.6
1.000	1.000	186.0	0.000	0.000	Ug6_741_743_L_0					
69 D	37.83	1.0894E-04	106.7	65.43	134.4	67.60	UL-RL	4.2179E+04	-13.60	123.7
1.000	1.000	189.2	0.000	0.000	Ug6_741_743_L_0					
70 D	38.46	1.1200E-04	108.3	66.43	136.2	68.49	UL-RL	4.2179E+04	-13.80	125.9
1.000	1.000	192.3	0.000	0.000	Ug6_741_743_L_0					
71 D	39.08	1.1502E-04	110.0	67.42	138.0	69.38	UL-RL	4.2179E+04	-14.00	128.0
1.000	1.000	195.4	0.000	0.000	Ug6_741_743_L_0					
72 D	39.71	1.1800E-04	111.7	68.41	139.8	70.27	UL-RL	4.2179E+04	-14.20	130.1
1.000	1.000	198.5	0.000	0.000	Ug6_741_743_L_0					
73 D	40.33	1.2094E-04	113.3	69.40	141.6	71.16	UL-RL	4.2179E+04	-14.40	132.3
1.000	1.000	201.7	0.000	0.000	Ug6_741_743_L_0					
74 D	40.96	1.2384E-04	115.0	70.39	143.4	72.05	UL-RL	4.2179E+04	-14.60	134.4
1.000	1.000	204.8	0.000	0.000	Ug6_741_743_L_0					
75 D	41.58	1.2671E-04	116.7	71.38	145.2	72.94	UL-RL	4.2179E+04	-14.80	136.5
1.000	1.000	207.9	0.000	0.000	Ug6_741_743_L_0					
76 D	42.21	1.2955E-04	118.3	72.36	147.0	73.84	UL-RL	4.2179E+04	-15.00	138.7
1.000	1.000	211.0	0.000	0.000	Ug6_741_743_L_0					
77 D	42.83	1.3237E-04	120.0	73.35	148.8	74.73	UL-RL	4.2179E+04	-15.20	140.8
1.000	1.000	214.1	0.000	0.000	Ug6_741_743_L_0					
78 D	43.45	1.3517E-04	121.7	74.33	150.6	75.62	UL-RL	4.2179E+04	-15.40	142.9
1.000	1.000	217.3	0.000	0.000	Ug6_741_743_L_0					

79 D	44.08	1.3796E-04	123.3	75.31	152.4	76.51	UL-RL	4.2179E+04	-15.60	145.1
1.000	1.000	220.4	0.000	0.000	Ug6_741_743_L_0					
80 D	44.70	1.4075E-04	125.0	76.30	154.2	77.40	UL-RL	4.2179E+04	-15.80	147.2
1.000	1.000	223.5	0.000	0.000	Ug6_741_743_L_0					
81 D	22.66	1.4354E-04	126.7	77.28	156.0	78.29	UL-RL	4.2179E+04	-16.00	149.3
1.000	1.000	226.6	0.000	0.000	Ug6_741_743_L_0					

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
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New Project

STRESS RESULTS FOR GROUP NO. 3

WallElement\_33 :  
ELEMENT TYPE 2 NO.OF ELEMENTS. IN THIS GROUP 80  
CURRENT TIME IS 3.0000

WALL2D ELEMENT

EL	TA	TB	MA	MB
1	-4.29914E-10	4.29914E-10	-4.31832E-11	-1.89935E-10
2	0.47998	-0.47998	1.61177E-10	9.59953E-02
3	1.4419	-1.4419	-9.59953E-02	0.38439
4	2.8885	-2.8885	-0.38439	0.96209
5	4.8216	-4.8216	-0.96209	1.9264
6	7.2421	-7.2421	-1.9264	3.3748
7	10.150	-10.150	-3.3748	5.4048
8	13.551	-13.551	-5.4048	8.1149
9	17.446	-17.446	-8.1149	11.604
10	21.825	-21.825	-11.604	15.969
11	26.694	-26.694	-15.969	21.308
12	29.111	-29.111	-21.308	27.130
13	29.066	-29.066	-27.130	32.943
14	26.753	-26.753	-32.943	38.294
15	24.542	-24.542	-38.294	43.202
16	22.432	-22.432	-43.202	47.689
17	20.416	-20.416	-47.689	51.772
18	18.494	-18.494	-51.772	55.471
19	16.662	-16.662	-55.471	58.803
20	14.909	-14.909	-58.803	61.785
21	13.233	-13.233	-61.785	64.431
22	11.627	-11.627	-64.431	66.757
23	10.081	-10.081	-66.757	68.773
24	8.5900	-8.5900	-68.773	70.491
25	7.1471	-7.1471	-70.491	71.920
26	5.7439	-5.7439	-71.920	73.069
27	4.3693	-4.3693	-73.069	73.943
28	3.0179	-3.0179	-73.943	74.547
29	1.6812	-1.6812	-74.547	74.883
30	0.34834	-0.34834	-74.883	74.952
31	-0.98667	0.98667	-74.952	74.755
32	-2.3323	2.3323	-74.755	74.289
33	-3.6993	3.6993	-74.289	73.549
34	-5.0937	5.0937	-73.549	72.530
35	-6.5237	6.5237	-72.530	71.225
36	-7.9975	7.9975	-71.225	69.626
37	-9.5252	9.5252	-69.626	67.721
38	-11.112	11.112	-67.721	65.498
39	-12.767	12.767	-65.498	62.945
40	-14.223	14.223	-62.945	60.100
41	-15.311	15.311	-60.100	57.038
42	-16.078	16.078	-57.038	53.822
43	-16.567	16.567	-53.822	50.509
44	-16.819	16.819	-50.509	47.145
45	-16.841	16.841	-47.145	43.777
46	-16.640	16.640	-43.777	40.449
47	-16.258	16.258	-40.449	37.198
48	-15.735	15.735	-37.198	34.051
49	-15.107	15.107	-34.051	31.029
50	-14.408	14.408	-31.029	28.148
51	-13.668	13.668	-28.148	25.414
52	-12.914	12.914	-25.414	22.831
53	-12.171	12.171	-22.831	20.397
54	-11.462	11.462	-20.397	18.105
55	-10.807	10.807	-18.105	15.943
56	-10.223	10.223	-15.943	13.899
57	-9.7263	9.7263	-13.899	11.954
58	-9.3304	9.3304	-11.954	10.087
59	-9.0471	9.0471	-10.087	8.2781
60	-8.8863	8.8863	-8.2781	6.5008
61	-8.8560	8.8560	-6.5008	4.7296
62	-7.5175	7.5175	-4.7296	3.2261
63	-6.2739	6.2739	-3.2261	1.9713
64	-5.1271	5.1271	-1.9713	0.94592
65	-4.0781	4.0781	-0.94592	0.13031
66	-3.1271	3.1271	-0.13031	-0.49511
67	-2.2741	2.2741	0.49511	-0.94993
68	-1.5188	1.5188	0.94993	-1.2537
69	-0.86036	0.86036	1.2537	-1.4258



70	-0.29804	0.29804	1.4258	-1.4854
71	0.16912	-0.16912	1.4854	-1.4515
72	0.54206	-0.54206	1.4515	-1.3431
73	0.82172	-0.82172	1.3431	-1.1788
74	1.0089	-1.0089	1.1788	-0.97700
75	1.1044	-1.1044	0.97700	-0.75611
76	1.1089	-1.1089	0.75611	-0.53434
77	1.0227	-1.0227	0.53434	-0.32981
78	0.84619	-0.84619	0.32981	-0.16057
79	0.57966	-0.57966	0.16057	-4.46398E-02
80	0.22319	-0.22319	4.46398E-02	2.75346E-12

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ITER      0  RNORM = 0.000      RMNORM= 0.000
            RINORM=0.1171E+06  RIMNOR=0.2843E+06
            RENORM= 612.1      REMNOR=0.1057E-19  RATIO =0.7230E-01  TOLER =0.1000E-03  NOT CONVERGED
            RFMAX = 43.76      RMMAX = 74.95
            RTSMAL=0.1000E-03  RMSMAL=0.1000E-03
            RDT =0.1171E+06    RDR =0.2843E+06
            RATIOI=0.7230E-01  RATIOOR= 0.000
            MAX UN= 9.298      IEQ= 31 NODE      16 DOF      1 Y-DISPL.F
            MIN UN=-.7356E-01  IEQ= 21 NODE      11 DOF      1 Y-DISPL.F
            NO. OF CONTACT CONSTRAINT VIOLATIONS      0

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ITER      2  RNORM = 0.000      RMNORM= 0.000
            RINORM=0.1171E+06  RIMNOR=0.2843E+06
            RENORM= 165.6      REMNOR=0.1129E-19  RATIO =0.3761E-01  TOLER =0.1000E-03  NOT CONVERGED
            RFMAX = 43.76      RMMAX = 74.95
            RTSMAL=0.1000E-03  RMSMAL=0.1000E-03
            RDT =0.1171E+06    RDR =0.2843E+06
            RATIOI=0.3761E-01  RATIOOR= 0.000
            MAX UN= 2.504      IEQ= 39 NODE      20 DOF      1 Y-DISPL.F
            MIN UN=-.3693E-02  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=0.1171E+06  RIMNOR=0.2843E+06
            RENORM= 91.11      REMNOR=0.9564E-18  RATIO =0.2789E-01  TOLER =0.1000E-03  NOT CONVERGED
            RFMAX = 43.76      RMMAX = 74.95
            RTSMAL=0.1000E-03  RMSMAL=0.1000E-03
            RDT =0.1171E+06    RDR =0.2843E+06
            RATIOI=0.2789E-01  RATIOOR= 0.000
            MAX UN= 5.206      IEQ= 85 NODE      43 DOF      1 Y-DISPL.F
            MIN UN=-.4107E-08  IEQ= 23 NODE      12 DOF      1 Y-DISPL.F
            NO. OF CONTACT CONSTRAINT VIOLATIONS      0

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ITER      4  RNORM = 0.000      RMNORM= 0.000
            RINORM=0.1171E+06  RIMNOR=0.2843E+06
            RENORM= 1.926      REMNOR=0.1805E-18  RATIO =0.4056E-02  TOLER =0.1000E-03  NOT CONVERGED
            RFMAX = 43.76      RMMAX = 74.95
            RTSMAL=0.1000E-03  RMSMAL=0.1000E-03
            RDT =0.1171E+06    RDR =0.2843E+06
            RATIOI=0.4056E-02  RATIOOR= 0.000
            MAX UN= 1.259      IEQ= 97 NODE      49 DOF      1 Y-DISPL.F
            MIN UN=-.2725E-08  IEQ= 29 NODE      15 DOF      1 Y-DISPL.F
            NO. OF CONTACT CONSTRAINT VIOLATIONS      0

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ITER      5  RNORM = 0.000      RMNORM= 0.000
            RINORM=0.1171E+06  RIMNOR=0.2843E+06
            RENORM=0.4394E-16  REMNOR=0.1376E-18  RATIO =0.1937E-10  TOLER =0.1000E-03  CONVERGED !
            RFMAX = 43.76      RMMAX = 74.95
            RTSMAL=0.1000E-03  RMSMAL=0.1000E-03
            RDT =0.1171E+06    RDR =0.2843E+06
            RATIOI=0.1937E-10  RATIOOR= 0.000
            MAX UN=0.2200E-08  IEQ= 7 NODE      4 DOF      1 Y-DISPL.F
            MIN UN=-.2567E-08  IEQ= 5 NODE      3 DOF      1 Y-DISPL.F
            NO. OF CONTACT CONSTRAINT VIOLATIONS      0

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|                PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
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New Project
SOLUTION REACHED USING      5 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   4   ( AT TIME  4.000   )

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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	7.3475448E-03	-9.7666762E-04	
2	7.1522113E-03	-9.7666762E-04	
3	6.9568782E-03	-9.7666094E-04	
4	6.7615487E-03	-9.7662754E-04	
5	6.5662312E-03	-9.7653391E-04	
6	6.3709423E-03	-9.7633304E-04	
7	6.1757092E-03	-9.7596438E-04	
8	5.9805727E-03	-9.7535382E-04	
9	5.7855896E-03	-9.7441359E-04	
10	5.5908360E-03	-9.7304221E-04	
11	5.3964092E-03	-9.7112456E-04	
12	5.2024311E-03	-9.6853199E-04	
13	5.0090508E-03	-9.6512220E-04	
14	4.8164471E-03	-9.6073940E-04	
15	4.6248312E-03	-9.5521433E-04	
16	4.4344497E-03	-9.4836420E-04	
17	4.2455860E-03	-9.3999266E-04	
18	4.0585644E-03	-9.2993074E-04	
19	3.8737332E-03	-9.1807731E-04	
20	3.6914551E-03	-9.0439915E-04	
21	3.5120937E-03	-8.8893109E-04	
22	3.3359961E-03	-8.7177569E-04	
23	3.1634858E-03	-8.5308512E-04	
24	2.9948535E-03	-8.3302225E-04	
25	2.8303582E-03	-8.1174069E-04	
26	2.6702288E-03	-7.8938515E-04	
27	2.5146674E-03	-7.6609184E-04	
28	2.3638469E-03	-7.4198850E-04	
29	2.2179180E-03	-7.1719542E-04	
30	2.0770072E-03	-6.9182542E-04	
31	1.9412192E-03	-6.6598438E-04	
32	1.8106388E-03	-6.3977187E-04	
33	1.6853297E-03	-6.1328098E-04	
34	1.5653392E-03	-5.8659961E-04	
35	1.4506970E-03	-5.5981043E-04	
36	1.3414170E-03	-5.3299141E-04	
37	1.2374980E-03	-5.0621642E-04	
38	1.1389233E-03	-4.7955520E-04	
39	1.0456639E-03	-4.5307461E-04	
40	9.5767720E-04	-4.2683851E-04	
41	8.7490811E-04	-4.0090839E-04	
42	7.9728947E-04	-3.7534381E-04	
43	7.2474235E-04	-3.5020279E-04	
44	6.5717632E-04	-3.2554228E-04	
45	5.9448995E-04	-3.0141871E-04	
46	5.3656964E-04	-2.7788786E-04	
47	4.8329154E-04	-2.5500600E-04	
48	4.3452019E-04	-2.3282981E-04	
49	3.9010873E-04	-2.1141690E-04	
50	3.4989882E-04	-1.9082618E-04	
51	3.1371963E-04	-1.7111789E-04	
52	2.8138792E-04	-1.5235387E-04	
53	2.5271188E-04	-1.3459157E-04	
54	2.2748333E-04	-1.1787067E-04	
55	2.0549212E-04	-1.0222214E-04	
56	1.8652175E-04	-8.7664381E-05	
57	1.7035317E-04	-7.4204588E-05	
58	1.5676685E-04	-6.1840764E-05	
59	1.4554442E-04	-5.0563605E-05	
60	1.3646996E-04	-4.0358204E-05	
61	1.2933096E-04	-3.1205602E-05	
62	1.2391898E-04	-2.3084186E-05	
63	1.2003178E-04	-1.5945310E-05	
64	1.1748030E-04	-9.7146687E-06	
65	1.1609025E-04	-4.3189574E-06	
66	1.1570185E-04	3.1365992E-07	
67	1.1616951E-04	4.2531537E-06	
68	1.1736142E-04	7.5672914E-06	
69	1.1915908E-04	1.0321355E-05	
70	1.2145679E-04	1.2577907E-05	
71	1.2416106E-04	1.4396601E-05	
72	1.2719001E-04	1.5834026E-05	
73	1.3047281E-04	1.6943588E-05	

74	1.3394893E-04	1.7775413E-05
75	1.3756758E-04	1.8376280E-05
76	1.4128694E-04	1.8789570E-05
77	1.4507356E-04	1.9055226E-05
78	1.4890162E-04	1.9209734E-05
79	1.5275225E-04	1.9286105E-05
80	1.5661282E-04	1.9313870E-05
81	1.6047648E-04	1.9319074E-05

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|                PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*                |
|                                                                                                                                            |
|                                                                                                                                            |
|                NewProject.BaseDesignSection_28.Nominal_63                                                                              |
|                Exe Time :24 May 2018          18:25:47                                                                              |
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New Project

STRESS RESULTS FOR GROUP NO. 1

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0_L
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 81
CURRENT TIME IS 4.0000

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HARDENING 2D SOIL ELEMENT

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

EL * FACTOR	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
1 D	0.000	-7.3475E-03	0.000	0.000	0.000	0.000	ACTIVE	0.000	0.000	0.000	
1.000	1.000	0.000	0.000	0.000	Ug5_2_8_L_0						
2 D	0.4689	-7.1522E-03	2.215	0.5515	2.215	1.603	ACTIVE	0.000	-0.2000	1.793	
1.000	1.000	2.345	0.000	0.000	Ug5_2_8_L_0						
3 D	0.9399	-6.9569E-03	4.471	1.113	4.471	3.119	ACTIVE	0.000	-0.4000	3.586	
1.000	1.000	4.699	0.000	0.000	Ug5_2_8_L_0						
4 D	1.413	-6.7615E-03	6.779	1.688	6.779	4.509	ACTIVE	0.000	-0.6000	5.379	
1.000	1.000	7.067	0.000	0.000	Ug5_2_8_L_0						
5 D	1.889	-6.5662E-03	9.125	2.272	9.125	5.780	ACTIVE	0.000	-0.8000	7.172	
1.000	1.000	9.444	0.000	0.000	Ug5_2_8_L_0						
6 D	2.365	-6.3709E-03	11.49	2.861	11.49	6.958	ACTIVE	0.000	-1.000	8.966	
1.000	1.000	11.83	0.000	0.000	Ug5_2_8_L_0						
7 D	2.842	-6.1757E-03	13.85	3.449	13.85	8.073	ACTIVE	0.000	-1.200	10.76	
1.000	1.000	14.21	0.000	0.000	Ug5_2_8_L_0						
8 D	3.323	-5.9806E-03	16.32	4.064	16.32	9.145	ACTIVE	0.000	-1.400	12.55	
1.000	1.000	16.62	0.000	0.000	Ug5_2_8_L_0						
9 D	3.807	-5.7856E-03	18.83	4.689	18.83	10.19	ACTIVE	0.000	-1.600	14.34	
1.000	1.000	19.03	0.000	0.000	Ug5_2_8_L_0						
10 D	4.280	-5.5908E-03	21.13	5.260	21.13	11.22	ACTIVE	0.000	-1.800	16.14	
1.000	1.000	21.40	0.000	0.000	Ug5_2_8_L_0						
11 D	4.759	-5.3964E-03	23.55	5.865	23.55	12.23	ACTIVE	0.000	-2.000	17.93	
1.000	1.000	23.80	0.000	0.000	Ug5_2_8_L_0						
12 D	5.237	-5.2024E-03	25.95	6.461	25.95	13.24	ACTIVE	0.000	-2.200	19.72	
1.000	1.000	26.18	0.000	0.000	Ug5_2_8_L_0						
13 D	5.707	-5.0091E-03	28.19	7.020	28.19	14.24	ACTIVE	0.000	-2.400	21.52	
1.000	1.000	28.54	0.000	0.000	Ug5_2_8_L_0						
14 D	6.183	-4.8164E-03	30.55	7.606	30.55	15.24	ACTIVE	0.000	-2.600	23.31	
1.000	1.000	30.92	0.000	0.000	Ug5_2_8_L_0						
15 D	6.658	-4.6248E-03	32.88	8.187	32.88	16.23	ACTIVE	0.000	-2.800	25.10	
1.000	1.000	33.29	0.000	0.000	Ug5_2_8_L_0						
16 D	7.132	-4.4344E-03	35.20	8.765	35.20	17.23	ACTIVE	0.000	-3.000	26.90	
1.000	1.000	35.66	0.000	0.000	Ug5_2_8_L_0						
17 D	7.601	-4.2456E-03	37.42	9.317	37.42	18.22	ACTIVE	0.000	-3.200	28.69	
1.000	1.000	38.01	0.000	0.000	Ug5_2_8_L_0						
18 D	8.075	-4.0586E-03	39.72	9.890	39.72	19.21	ACTIVE	0.000	-3.400	30.48	
1.000	1.000	40.37	0.000	0.000	Ug5_2_8_L_0						
19 D	8.547	-3.8737E-03	42.01	10.46	42.01	20.21	ACTIVE	0.000	-3.600	32.28	
1.000	1.000	42.74	0.000	0.000	Ug5_2_8_L_0						
20 D	9.016	-3.6915E-03	44.22	11.01	44.22	21.20	ACTIVE	0.000	-3.800	34.07	
1.000	1.000	45.08	0.000	0.000	Ug5_2_8_L_0						
21 D	9.488	-3.5121E-03	46.50	11.58	46.50	22.19	ACTIVE	0.000	-4.000	35.86	
1.000	1.000	47.44	0.000	0.000	Ug5_2_8_L_0						
22 D	9.960	-3.3360E-03	48.77	12.14	48.77	23.18	ACTIVE	0.000	-4.200	37.66	
1.000	1.000	49.80	0.000	0.000	Ug5_2_8_L_0						
23 D	10.43	-3.1635E-03	50.98	12.69	50.98	24.18	ACTIVE	0.000	-4.400	39.45	
1.000	1.000	52.14	0.000	0.000	Ug5_2_8_L_0						
24 D	10.90	-2.9949E-03	53.24	13.26	53.24	25.17	ACTIVE	0.000	-4.600	41.24	
1.000	1.000	54.50	0.000	0.000	Ug5_2_8_L_0						
25 D	11.37	-2.8304E-03	55.51	13.82	55.51	26.17	ACTIVE	0.000	-4.800	43.03	
1.000	1.000	56.86	0.000	0.000	Ug5_2_8_L_0						
26 D	11.84	-2.6702E-03	57.76	14.38	57.76	27.16	ACTIVE	0.000	-5.000	44.83	
1.000	1.000	59.21	0.000	0.000	Ug5_2_8_L_0						
27 D	12.31	-2.5147E-03	59.96	14.93	59.96	28.16	ACTIVE	0.000	-5.200	46.62	
1.000	1.000	61.55	0.000	0.000	Ug5_2_8_L_0						
28 D	12.78	-2.3638E-03	62.21	15.49	62.21	29.16	ACTIVE	0.000	-5.400	48.41	
1.000	1.000	63.90	0.000	0.000	Ug5_2_8_L_0						
29 D	13.25	-2.2179E-03	64.46	16.05	64.46	30.15	ACTIVE	0.000	-5.600	50.21	
1.000	1.000	66.26	0.000	0.000	Ug5_2_8_L_0						
30 D	13.72	-2.0770E-03	66.66	16.60	66.66	31.15	ACTIVE	0.000	-5.800	52.00	
1.000	1.000	68.60	0.000	0.000	Ug5_2_8_L_0						
31 D	14.19	-1.9412E-03	68.91	17.16	68.91	32.15	ACTIVE	0.000	-6.000	53.79	
1.000	1.000	70.95	0.000	0.000	Ug5_2_8_L_0						
32 D	14.66	-1.8106E-03	71.15	17.72	71.15	33.15	ACTIVE	0.000	-6.200	55.59	
1.000	1.000	73.30	0.000	0.000	Ug5_2_8_L_0						
33 D	15.13	-1.6853E-03	73.35	18.26	73.35	34.15	ACTIVE	0.000	-6.400	57.38	

1.000	1.000	75.64	0.000	0.000	Ug5_2_8_L_0					
34 D	15.60	-1.5653E-03	75.59	18.82	75.59	35.15	ACTIVE	0.000	-6.600	59.17
1.000	1.000	77.99	0.000	0.000	Ug5_2_8_L_0					
35 D	16.07	-1.4507E-03	77.83	19.38	77.83	36.15	ACTIVE	0.000	-6.800	60.97
1.000	1.000	80.34	0.000	0.000	Ug5_2_8_L_0					
36 D	16.54	-1.3414E-03	80.06	19.94	80.06	37.16	ACTIVE	0.000	-7.000	62.76
1.000	1.000	82.69	0.000	0.000	Ug5_2_8_L_0					
37 D	17.01	-1.2375E-03	82.26	20.48	82.26	38.16	ACTIVE	0.000	-7.200	64.55
1.000	1.000	85.03	0.000	0.000	Ug5_2_8_L_0					
38 D	17.48	-1.1389E-03	84.49	21.04	84.49	39.16	ACTIVE	0.000	-7.400	66.34
1.000	1.000	87.38	0.000	0.000	Ug5_2_8_L_0					
39 D	17.95	-1.0457E-03	86.73	21.59	86.73	40.17	ACTIVE	0.000	-7.600	68.14
1.000	1.000	89.73	0.000	0.000	Ug5_2_8_L_0					
40 D	18.41	-9.5768E-04	88.92	22.14	88.92	41.17	ACTIVE	0.000	-7.800	69.93
1.000	1.000	92.07	0.000	0.000	Ug5_2_8_L_0					
41 D	18.88	-8.7491E-04	91.15	22.70	91.15	42.18	ACTIVE	0.000	-8.000	71.72
1.000	1.000	94.42	0.000	0.000	Ug5_2_8_L_0					
42 D	19.35	-7.9729E-04	93.38	23.25	93.38	43.19	ACTIVE	0.000	-8.200	73.52
1.000	1.000	96.77	0.000	0.000	Ug5_2_8_L_0					
43 D	19.82	-7.2474E-04	95.58	23.80	95.58	44.19	ACTIVE	0.000	-8.400	75.31
1.000	1.000	99.11	0.000	0.000	Ug5_2_8_L_0					
44 D	20.29	-6.5718E-04	97.81	24.35	97.81	45.20	ACTIVE	0.000	-8.600	77.10
1.000	1.000	101.5	0.000	0.000	Ug5_2_8_L_0					
45 D	20.76	-5.9449E-04	100.0	24.91	100.0	46.21	ACTIVE	0.000	-8.800	78.90
1.000	1.000	103.8	0.000	0.000	Ug5_2_8_L_0					
46 D	21.23	-5.3657E-04	102.3	25.46	102.3	47.22	ACTIVE	0.000	-9.000	80.69
1.000	1.000	106.2	0.000	0.000	Ug5_2_8_L_0					
47 D	21.70	-4.8329E-04	104.5	26.01	104.5	48.23	ACTIVE	0.000	-9.200	82.48
1.000	1.000	108.5	0.000	0.000	Ug5_2_8_L_0					
48 D	22.17	-4.3452E-04	106.7	26.57	106.7	49.24	ACTIVE	0.000	-9.400	84.28
1.000	1.000	110.8	0.000	0.000	Ug5_2_8_L_0					
49 D	22.64	-3.9011E-04	108.9	27.12	108.9	50.26	ACTIVE	0.000	-9.600	86.07
1.000	1.000	113.2	0.000	0.000	Ug5_2_8_L_0					
50 D	23.11	-3.4990E-04	111.1	27.67	111.1	51.27	ACTIVE	0.000	-9.800	87.86
1.000	1.000	115.5	0.000	0.000	Ug5_2_8_L_0					
51 D	23.59	-3.1372E-04	113.3	28.29	113.3	52.28	UL-RL	7.5213E+04	-10.00	89.66
1.000	1.000	117.9	0.000	0.000	Ug5_2_8_L_0					
52 D	24.66	-2.8139E-04	115.6	31.85	115.6	53.29	UL-RL	7.5213E+04	-10.20	91.45
1.000	1.000	123.3	0.000	0.000	Ug5_2_8_L_0					
53 D	25.67	-2.5271E-04	117.8	35.10	117.8	54.31	UL-RL	7.5213E+04	-10.40	93.24
1.000	1.000	128.3	0.000	0.000	Ug5_2_8_L_0					
54 D	26.62	-2.2748E-04	120.0	38.08	120.0	55.32	UL-RL	7.5213E+04	-10.60	95.03
1.000	1.000	133.1	0.000	0.000	Ug5_2_8_L_0					
55 D	27.52	-2.0549E-04	122.2	40.78	122.2	56.34	UL-RL	7.5213E+04	-10.80	96.83
1.000	1.000	137.6	0.000	0.000	Ug5_2_8_L_0					
56 D	28.37	-1.8652E-04	124.4	43.24	124.4	57.35	UL-RL	7.5213E+04	-11.00	98.62
1.000	1.000	141.9	0.000	0.000	Ug5_2_8_L_0					
57 D	29.18	-1.7035E-04	126.6	45.47	126.6	58.37	UL-RL	7.5213E+04	-11.20	100.4
1.000	1.000	145.9	0.000	0.000	Ug5_2_8_L_0					
58 D	29.94	-1.5677E-04	128.8	47.49	128.8	59.39	UL-RL	7.5213E+04	-11.40	102.2
1.000	1.000	149.7	0.000	0.000	Ug5_2_8_L_0					
59 D	30.66	-1.4554E-04	131.1	49.32	131.1	60.40	UL-RL	7.5213E+04	-11.60	104.0
1.000	1.000	153.3	0.000	0.000	Ug5_2_8_L_0					
60 D	31.35	-1.3647E-04	133.3	50.97	133.3	61.42	UL-RL	7.5213E+04	-11.80	105.8
1.000	1.000	156.8	0.000	0.000	Ug5_2_8_L_0					
61 D	32.01	-1.2933E-04	135.5	52.48	135.5	62.44	UL-RL	7.5213E+04	-12.00	107.6
1.000	1.000	160.1	0.000	0.000	Ug5_2_8_L_0					
62 D	34.08	-1.2392E-04	137.5	61.02	137.5	63.36	UL-RL	3.6008E+04	-12.20	109.4
1.000	1.000	170.4	0.000	0.000	Ug6_741_743_L_0					
63 D	34.65	-1.2003E-04	139.5	62.08	139.5	64.28	UL-RL	3.6008E+04	-12.40	111.2
1.000	1.000	173.3	0.000	0.000	Ug6_741_743_L_0					
64 D	35.21	-1.1748E-04	141.5	63.10	141.5	65.20	UL-RL	3.6008E+04	-12.60	113.0
1.000	1.000	176.1	0.000	0.000	Ug6_741_743_L_0					
65 D	35.77	-1.1609E-04	143.5	64.07	143.5	66.12	UL-RL	3.6008E+04	-12.80	114.8
1.000	1.000	178.8	0.000	0.000	Ug6_741_743_L_0					
66 D	36.31	-1.1570E-04	145.5	65.01	145.5	67.04	UL-RL	3.6008E+04	-13.00	116.6
1.000	1.000	181.6	0.000	0.000	Ug6_741_743_L_0					
67 D	36.85	-1.1617E-04	147.5	65.92	147.5	67.96	UL-RL	3.6008E+04	-13.20	118.3
1.000	1.000	184.3	0.000	0.000	Ug6_741_743_L_0					
68 D	37.39	-1.1736E-04	149.4	66.80	149.4	68.88	UL-RL	3.6008E+04	-13.40	120.1
1.000	1.000	186.9	0.000	0.000	Ug6_741_743_L_0					
69 D	37.92	-1.1916E-04	151.4	67.66	151.4	69.80	UL-RL	3.6008E+04	-13.60	121.9
1.000	1.000	189.6	0.000	0.000	Ug6_741_743_L_0					
70 D	38.45	-1.2146E-04	153.4	68.50	153.4	70.72	UL-RL	3.6008E+04	-13.80	123.7
1.000	1.000	192.2	0.000	0.000	Ug6_741_743_L_0					
71 D	38.97	-1.2416E-04	155.4	69.34	155.4	71.64	UL-RL	3.6008E+04	-14.00	125.5
1.000	1.000	194.9	0.000	0.000	Ug6_741_743_L_0					
72 D	39.49	-1.2719E-04	157.3	70.16	157.3	72.56	UL-RL	3.6008E+04	-14.20	127.3
1.000	1.000	197.5	0.000	0.000	Ug6_741_743_L_0					
73 D	40.01	-1.3047E-04	159.3	70.97	159.3	73.49	UL-RL	3.6008E+04	-14.40	129.1
1.000	1.000	200.1	0.000	0.000	Ug6_741_743_L_0					
74 D	40.54	-1.3395E-04	161.3	71.78	161.3	74.41	UL-RL	3.6008E+04	-14.60	130.9
1.000	1.000	202.7	0.000	0.000	Ug6_741_743_L_0					
75 D	41.05	-1.3757E-04	163.3	72.58	163.3	75.33	UL-RL	3.6008E+04	-14.80	132.7
1.000	1.000	205.3	0.000	0.000	Ug6_741_743_L_0					
76 D	41.57	-1.4129E-04	165.3	73.39	165.3	76.25	UL-RL	3.6008E+04	-15.00	134.5
1.000	1.000	207.9	0.000	0.000	Ug6_741_743_L_0					
77 D	42.09	-1.4507E-04	167.2	74.19	167.2	77.18	UL-RL	3.6008E+04	-15.20	136.3
1.000	1.000	210.5	0.000	0.000	Ug6_741_743_L_0					
78 D	42.61	-1.4890E-04	169.2	74.98	169.2	78.10	UL-RL	3.6008E+04	-15.40	138.1
1.000	1.000	213.1	0.000	0.000	Ug6_741_743_L_0					

79 D	43.13	-1.5275E-04	171.2	75.78	171.2	79.03	UL-RL	3.6008E+04	-15.60	139.9
1.000	1.000	215.6	0.000	0.000	Ug6_741_743_L_0					
80 D	43.65	-1.5661E-04	173.2	76.58	173.2	79.95	UL-RL	3.6008E+04	-15.80	141.7
1.000	1.000	218.2	0.000	0.000	Ug6_741_743_L_0					
81 D	22.08	-1.6048E-04	175.2	77.38	175.2	80.88	UL-RL	3.6008E+04	-16.00	143.4
1.000	1.000	220.8	0.000	0.000	Ug6_741_743_L_0					

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|                PARATIEPLUS(TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION *Build date:Jul 11, 2017*                |
|                                                                                                                                            |
|                                                                                                                                            |
|                NewProject.BaseDesignSection_28.Nominal_63                                                                              |
|                Exe Time :24 May 2018      18:25:47                                                                              |
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New Project

STRESS RESULTS FOR GROUP NO. 2

0\_R :  
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 81  
CURRENT TIME IS 4.0000

HARDENING 2D SOIL ELEMENT

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

EL * FACTOR	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
1	0.000	--	--	--	--	--	REMOVED	--	0.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
2	0.000	--	--	--	--	--	REMOVED	--	-0.2000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
3	0.000	--	--	--	--	--	REMOVED	--	-0.4000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
4	0.000	--	--	--	--	--	REMOVED	--	-0.6000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
5	0.000	--	--	--	--	--	REMOVED	--	-0.8000	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	--	-1.200	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
8	0.000	--	--	--	--	--	REMOVED	--	-1.400	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
9	0.000	--	--	--	--	--	REMOVED	--	-1.600	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
10	0.000	--	--	--	--	--	REMOVED	--	-1.800	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
11	0.000	--	--	--	--	--	REMOVED	--	-2.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
12	0.000	--	--	--	--	--	REMOVED	--	-2.200	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
13	0.000	--	--	--	--	--	REMOVED	--	-2.400	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
14	0.000	--	--	--	--	--	REMOVED	--	-2.600	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
15	0.000	--	--	--	--	--	REMOVED	--	-2.800	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
16 D	0.000	4.4344E-03	0.000	0.000	30.00	36.37	PASSIVE	0.000	-3.000	0.000	
1.000	1.000	0.000	0.000	0.000	Ug5_2_8_L_0						
17 D	2.858	4.2456E-03	1.793	12.08	32.00	36.17	PASSIVE	0.000	-3.200	2.207	
1.000	1.000	14.29	0.000	0.000	Ug5_2_8_L_0						
18 D	5.716	4.0586E-03	3.586	24.16	34.00	35.99	PASSIVE	0.000	-3.400	4.414	
1.000	1.000	28.58	0.000	0.000	Ug5_2_8_L_0						
19 D	8.573	3.8737E-03	5.379	36.25	36.00	36.25	PASSIVE	0.000	-3.600	6.621	
1.000	1.000	42.87	0.000	0.000	Ug5_2_8_L_0						
20 D	11.43	3.6915E-03	7.172	48.33	38.00	48.33	PASSIVE	0.000	-3.800	8.828	
1.000	1.000	57.16	0.000	0.000	Ug5_2_8_L_0						
21 D	14.29	3.5121E-03	8.966	60.41	40.00	60.41	PASSIVE	0.000	-4.000	11.03	
1.000	1.000	71.44	0.000	0.000	Ug5_2_8_L_0						
22 D	15.84	3.3360E-03	10.76	65.98	42.00	65.98	V-C	1.2465E+04	-4.200	13.24	
1.000	1.000	79.22	0.000	0.000	Ug5_2_8_L_0						
23 D	15.98	3.1635E-03	12.55	64.48	44.00	64.48	V-C	1.2465E+04	-4.400	15.45	
1.000	1.000	79.92	0.000	0.000	Ug5_2_8_L_0						
24 D	16.14	2.9949E-03	14.34	63.03	46.00	63.03	V-C	1.2465E+04	-4.600	17.66	
1.000	1.000	80.68	0.000	0.000	Ug5_2_8_L_0						
25 D	16.30	2.8304E-03	16.14	61.64	48.00	61.64	V-C	1.2465E+04	-4.800	19.86	
1.000	1.000	81.50	0.000	0.000	Ug5_2_8_L_0						
26 D	16.48	2.6702E-03	17.93	60.31	50.00	60.31	V-C	1.2465E+04	-5.000	22.07	
1.000	1.000	82.38	0.000	0.000	Ug5_2_8_L_0						
27 D	16.67	2.5147E-03	19.72	59.05	52.00	59.05	V-C	1.2465E+04	-5.200	24.28	
1.000	1.000	83.33	0.000	0.000	Ug5_2_8_L_0						
28 D	16.87	2.3638E-03	21.52	57.86	54.00	57.86	V-C	1.2465E+04	-5.400	26.48	
1.000	1.000	84.35	0.000	0.000	Ug5_2_8_L_0						
29 D	17.09	2.2179E-03	23.31	56.75	56.00	56.75	V-C	1.2465E+04	-5.600	28.69	
1.000	1.000	85.44	0.000	0.000	Ug5_2_8_L_0						
30 D	17.32	2.0770E-03	25.10	55.71	58.00	55.71	V-C	1.2465E+04	-5.800	30.90	
1.000	1.000	86.61	0.000	0.000	Ug5_2_8_L_0						
31 D	17.57	1.9412E-03	26.90	54.76	60.00	54.76	V-C	1.2465E+04	-6.000	33.10	
1.000	1.000	87.86	0.000	0.000	Ug5_2_8_L_0						
32 D	17.84	1.8106E-03	28.69	53.88	62.00	53.88	V-C	1.2465E+04	-6.200	35.31	
1.000	1.000	89.19	0.000	0.000	Ug5_2_8_L_0						
33 D	18.12	1.6853E-03	30.48	53.07	64.00	53.07	V-C	1.2465E+04	-6.400	37.52	

1.000	1.000	90.59	0.000	0.000	Ug5_2_8_L_0					
34 D	18.42	1.5653E-03	32.28	52.35	66.00	52.35	V-C	1.2465E+04	-6.600	39.72
1.000	1.000	92.08	0.000	0.000	Ug5_2_8_L_0					
35 D	18.73	1.4507E-03	34.07	51.72	68.00	51.72	V-C	1.2465E+04	-6.800	41.93
1.000	1.000	93.65	0.000	0.000	Ug5_2_8_L_0					
36 D	19.06	1.3414E-03	35.86	51.16	70.00	51.16	V-C	1.2465E+04	-7.000	44.14
1.000	1.000	95.29	0.000	0.000	Ug5_2_8_L_0					
37 D	19.40	1.2375E-03	37.66	50.68	72.00	50.68	V-C	1.2465E+04	-7.200	46.34
1.000	1.000	97.02	0.000	0.000	Ug5_2_8_L_0					
38 D	19.77	1.1389E-03	39.45	50.28	74.00	50.28	V-C	1.2465E+04	-7.400	48.55
1.000	1.000	98.83	0.000	0.000	Ug5_2_8_L_0					
39 D	20.14	1.0457E-03	41.24	49.96	76.00	49.96	V-C	1.2465E+04	-7.600	50.76
1.000	1.000	100.7	0.000	0.000	Ug5_2_8_L_0					
40 D	20.54	9.5768E-04	43.03	49.72	78.00	49.72	V-C	1.2465E+04	-7.800	52.97
1.000	1.000	102.7	0.000	0.000	Ug5_2_8_L_0					
41 D	20.95	8.7491E-04	44.83	49.56	80.00	49.56	V-C	1.2465E+04	-8.000	55.17
1.000	1.000	104.7	0.000	0.000	Ug5_2_8_L_0					
42 D	21.37	7.9729E-04	46.62	49.47	82.00	49.47	V-C	1.2465E+04	-8.200	57.38
1.000	1.000	106.8	0.000	0.000	Ug5_2_8_L_0					
43 D	21.81	7.2474E-04	48.41	49.45	84.00	49.45	V-C	1.2465E+04	-8.400	59.59
1.000	1.000	109.0	0.000	0.000	Ug5_2_8_L_0					
44 D	22.26	6.5718E-04	50.21	49.51	86.00	49.51	V-C	1.2465E+04	-8.600	61.79
1.000	1.000	111.3	0.000	0.000	Ug5_2_8_L_0					
45 D	22.73	5.9449E-04	52.00	49.64	88.00	49.64	V-C	1.2465E+04	-8.800	64.00
1.000	1.000	113.6	0.000	0.000	Ug5_2_8_L_0					
46 D	23.21	5.3657E-04	53.79	49.84	90.00	49.84	V-C	1.2465E+04	-9.000	66.21
1.000	1.000	116.0	0.000	0.000	Ug5_2_8_L_0					
47 D	23.70	4.8329E-04	55.59	50.10	92.00	50.10	V-C	1.2465E+04	-9.200	68.41
1.000	1.000	118.5	0.000	0.000	Ug5_2_8_L_0					
48 D	24.21	4.3452E-04	57.38	50.43	94.00	50.43	V-C	1.2465E+04	-9.400	70.62
1.000	1.000	121.0	0.000	0.000	Ug5_2_8_L_0					
49 D	24.73	3.9011E-04	59.17	50.82	96.00	50.82	V-C	1.2465E+04	-9.600	72.83
1.000	1.000	123.6	0.000	0.000	Ug5_2_8_L_0					
50 D	25.26	3.4990E-04	60.97	51.27	98.00	51.27	V-C	1.2465E+04	-9.800	75.03
1.000	1.000	126.3	0.000	0.000	Ug5_2_8_L_0					
51 D	25.80	3.1372E-04	62.76	51.77	100.00	51.77	V-C	1.2465E+04	-10.000	77.24
1.000	1.000	129.0	0.000	0.000	Ug5_2_8_L_0					
52 D	26.36	2.8139E-04	64.55	52.33	102.0	52.33	V-C	1.2465E+04	-10.200	79.45
1.000	1.000	131.8	0.000	0.000	Ug5_2_8_L_0					
53 D	26.92	2.5271E-04	66.34	52.94	104.0	52.94	V-C	1.2465E+04	-10.400	81.66
1.000	1.000	134.6	0.000	0.000	Ug5_2_8_L_0					
54 D	27.48	2.2748E-04	68.14	53.56	106.0	53.61	UL-RL	3.7394E+04	-10.600	83.86
1.000	1.000	137.4	0.000	0.000	Ug5_2_8_L_0					
55 D	27.95	2.0549E-04	69.93	53.69	108.0	54.60	UL-RL	3.7394E+04	-10.800	86.07
1.000	1.000	139.8	0.000	0.000	Ug5_2_8_L_0					
56 D	28.45	1.8652E-04	71.72	53.95	110.0	55.58	UL-RL	3.7394E+04	-11.000	88.28
1.000	1.000	142.2	0.000	0.000	Ug5_2_8_L_0					
57 D	28.96	1.7035E-04	73.52	54.33	112.0	56.56	UL-RL	3.7394E+04	-11.200	90.48
1.000	1.000	144.8	0.000	0.000	Ug5_2_8_L_0					
58 D	29.50	1.5677E-04	75.31	54.81	114.0	57.55	UL-RL	3.7394E+04	-11.400	92.69
1.000	1.000	147.5	0.000	0.000	Ug5_2_8_L_0					
59 D	30.06	1.4554E-04	77.10	55.38	116.0	58.53	UL-RL	3.7394E+04	-11.600	94.90
1.000	1.000	150.3	0.000	0.000	Ug5_2_8_L_0					
60 D	30.63	1.3647E-04	78.90	56.04	118.0	59.52	UL-RL	3.7394E+04	-11.800	97.10
1.000	1.000	153.1	0.000	0.000	Ug5_2_8_L_0					
61 D	31.22	1.2933E-04	80.69	56.78	120.0	60.50	UL-RL	3.7394E+04	-12.000	99.31
1.000	1.000	156.1	0.000	0.000	Ug5_2_8_L_0					
62 D	31.46	1.2392E-04	82.28	55.76	121.8	61.39	UL-RL	2.8119E+04	-12.200	101.5
1.000	1.000	157.3	0.000	0.000	Ug6_741_743_L_0					
63 D	32.05	1.2003E-04	83.88	56.55	123.6	62.28	UL-RL	2.8119E+04	-12.400	103.7
1.000	1.000	160.3	0.000	0.000	Ug6_741_743_L_0					
64 D	32.66	1.1748E-04	85.47	57.37	125.4	63.16	UL-RL	2.8119E+04	-12.600	105.9
1.000	1.000	163.3	0.000	0.000	Ug6_741_743_L_0					
65 D	33.27	1.1609E-04	87.06	58.22	127.2	64.05	UL-RL	2.8119E+04	-12.800	108.1
1.000	1.000	166.4	0.000	0.000	Ug6_741_743_L_0					
66 D	33.89	1.1570E-04	88.66	59.11	129.0	64.94	UL-RL	2.8119E+04	-13.000	110.3
1.000	1.000	169.5	0.000	0.000	Ug6_741_743_L_0					
67 D	34.51	1.1617E-04	90.25	60.01	130.8	65.83	UL-RL	2.8119E+04	-13.200	112.6
1.000	1.000	172.6	0.000	0.000	Ug6_741_743_L_0					
68 D	35.14	1.1736E-04	91.84	60.94	132.6	66.72	UL-RL	2.8119E+04	-13.400	114.8
1.000	1.000	175.7	0.000	0.000	Ug6_741_743_L_0					
69 D	35.77	1.1916E-04	93.43	61.88	134.4	67.60	UL-RL	2.8119E+04	-13.600	117.0
1.000	1.000	178.9	0.000	0.000	Ug6_741_743_L_0					
70 D	36.40	1.2146E-04	95.03	62.84	136.2	68.49	UL-RL	2.8119E+04	-13.800	119.2
1.000	1.000	182.0	0.000	0.000	Ug6_741_743_L_0					
71 D	37.04	1.2416E-04	96.62	63.81	138.0	69.38	UL-RL	2.8119E+04	-14.000	121.4
1.000	1.000	185.2	0.000	0.000	Ug6_741_743_L_0					
72 D	37.67	1.2719E-04	98.21	64.79	139.8	70.27	UL-RL	2.8119E+04	-14.200	123.6
1.000	1.000	188.4	0.000	0.000	Ug6_741_743_L_0					
73 D	38.31	1.3047E-04	99.81	65.77	141.6	71.16	UL-RL	2.8119E+04	-14.400	125.8
1.000	1.000	191.6	0.000	0.000	Ug6_741_743_L_0					
74 D	38.95	1.3395E-04	101.4	66.76	143.4	72.05	UL-RL	2.8119E+04	-14.600	128.0
1.000	1.000	194.8	0.000	0.000	Ug6_741_743_L_0					
75 D	39.59	1.3757E-04	103.0	67.75	145.2	72.94	UL-RL	2.8119E+04	-14.800	130.2
1.000	1.000	198.0	0.000	0.000	Ug6_741_743_L_0					
76 D	40.23	1.4129E-04	104.6	68.74	147.0	73.84	UL-RL	2.8119E+04	-15.000	132.4
1.000	1.000	201.2	0.000	0.000	Ug6_741_743_L_0					
77 D	40.87	1.4507E-04	106.2	69.74	148.8	74.73	UL-RL	2.8119E+04	-15.200	134.6
1.000	1.000	204.4	0.000	0.000	Ug6_741_743_L_0					
78 D	41.51	1.4890E-04	107.8	70.73	150.6	75.62	UL-RL	2.8119E+04	-15.400	136.8
1.000	1.000	207.6	0.000	0.000	Ug6_741_743_L_0					



79 D	42.15	1.5275E-04	109.4	71.73	152.4	76.51	UL-RL	2.8119E+04	-15.60	139.0
1.000	1.000	210.8	0.000	0.000	Ug6_741_743_L_0					
80 D	42.79	1.5661E-04	111.0	72.73	154.2	77.40	UL-RL	2.8119E+04	-15.80	141.2
1.000	1.000	214.0	0.000	0.000	Ug6_741_743_L_0					
81 D	21.72	1.6048E-04	112.6	73.72	156.0	78.29	UL-RL	2.8119E+04	-16.00	143.4
1.000	1.000	217.2	0.000	0.000	Ug6_741_743_L_0					

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|                PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
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New Project

STRESS RESULTS FOR GROUP NO. 3

WallElement\_33 :  
ELEMENT TYPE 2 NO.OF ELEMENTS. IN THIS GROUP 80  
CURRENT TIME IS 4.0000

WALL2D ELEMENT

EL	TA	TB	MA	MB
1	3.36677E-10	-3.36677E-10	3.40954E-11	1.28445E-10
2	0.46893	-0.46893	-2.42859E-10	9.37854E-02
3	1.4088	-1.4088	-9.37854E-02	0.37555
4	2.8222	-2.8222	-0.37555	0.93999
5	4.7111	-4.7111	-0.93999	1.8822
6	7.0764	-7.0764	-1.8822	3.2975
7	9.9179	-9.9179	-3.2975	5.2811
8	13.241	-13.241	-5.2811	7.9293
9	17.048	-17.048	-7.9293	11.339
10	21.328	-21.328	-11.339	15.604
11	26.087	-26.087	-15.604	20.822
12	31.324	-31.324	-20.822	27.086
13	37.031	-37.031	-27.086	34.493
14	43.214	-43.214	-34.493	43.136
15	49.873	-49.873	-43.136	53.110
16	57.005	-57.005	-53.110	64.511
17	61.748	-61.748	-64.511	76.861
18	64.107	-64.107	-76.861	89.682
19	64.081	-64.081	-89.682	102.50
20	61.666	-61.666	-102.50	114.83
21	56.866	-56.866	-114.83	126.20
22	50.981	-50.981	-126.20	136.40
23	45.425	-45.425	-136.40	145.49
24	40.189	-40.189	-145.49	153.52
25	35.260	-35.260	-153.52	160.58
26	30.627	-30.627	-160.58	166.70
27	26.271	-26.271	-166.70	171.96
28	22.183	-22.183	-171.96	176.39
29	18.346	-18.346	-176.39	180.06
30	14.744	-14.744	-180.06	183.01
31	11.362	-11.362	-183.01	185.28
32	8.1855	-8.1855	-185.28	186.92
33	5.1955	-5.1955	-186.92	187.96
34	2.3784	-2.3784	-187.96	188.43
35	-0.28201	0.28201	-188.43	188.38
36	-2.8020	2.8020	-188.38	187.82
37	-5.1998	5.1998	-187.82	186.78
38	-7.4894	7.4894	-186.78	185.28
39	-9.6865	9.6865	-185.28	183.34
40	-11.809	11.809	-183.34	180.98
41	-13.870	13.870	-180.98	178.21
42	-15.885	15.885	-178.21	175.03
43	-17.871	17.871	-175.03	171.46
44	-19.840	19.840	-171.46	167.49
45	-21.807	21.807	-167.49	163.13
46	-23.785	23.785	-163.13	158.37
47	-25.789	25.789	-158.37	153.21
48	-27.831	27.831	-153.21	147.64
49	-29.922	29.922	-147.64	141.66
50	-32.077	32.077	-141.66	135.24
51	-34.291	34.291	-135.24	128.39
52	-35.987	35.987	-128.39	121.19
53	-37.237	37.237	-121.19	113.74
54	-38.098	38.098	-113.74	106.12
55	-38.529	38.529	-106.12	98.417
56	-38.604	38.604	-98.417	90.696
57	-38.389	38.389	-90.696	83.018
58	-37.950	37.950	-83.018	75.428
59	-37.342	37.342	-75.428	67.960
60	-36.618	36.618	-67.960	60.636
61	-35.824	35.824	-60.636	53.471
62	-33.201	33.201	-53.471	46.831
63	-30.604	30.604	-46.831	40.710
64	-28.051	28.051	-40.710	35.100
65	-25.557	25.557	-35.100	29.989
66	-23.135	23.135	-29.989	25.362
67	-20.796	20.796	-25.362	21.202
68	-18.549	18.549	-21.202	17.493
69	-16.401	16.401	-17.493	14.212

70	-14.359	14.359	-14.212	11.341
71	-12.426	12.426	-11.341	8.8555
72	-10.607	10.607	-8.8555	6.7341
73	-8.9044	8.9044	-6.7341	4.9532
74	-7.3206	7.3206	-4.9532	3.4891
75	-5.8569	5.8569	-3.4891	2.3177
76	-4.5145	4.5145	-2.3177	1.4148
77	-3.2938	3.2938	-1.4148	0.75605
78	-2.1954	2.1954	-0.75605	0.31698
79	-1.2193	1.2193	-0.31698	7.31252E-02
80	-0.36561	0.36561	-7.31252E-02	1.07692E-14

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ITER      0  RNORM = 0.000      RMNORM= 0.000
            RINORM=0.2213E+06 RIMNOR=0.2031E+07
            RENORM= 1039.      REMNOR=0.1376E-18  RATIO =0.6851E-01  TOLER =0.1000E-03  NOT CONVERGED
            RFMAX = 64.11      RMMAX = 188.4
            RTSMAL=0.1000E-03 RMSMAL=0.1000E-02
            RDT =0.2213E+06  RDR =0.2031E+07
            RATIOI=0.6851E-01 RATIOOR= 0.000
            MAX UN= 14.13      IEQ= 41 NODE      21 DOF  1  Y-DISPL.F
            MIN UN=-.1182      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=0.2213E+06 RIMNOR=0.2031E+07
            RENORM= 284.1      REMNOR=0.2236E-18  RATIO =0.3583E-01  TOLER =0.1000E-03  NOT CONVERGED
            RFMAX = 64.11      RMMAX = 188.4
            RTSMAL=0.1000E-03 RMSMAL=0.1000E-02
            RDT =0.2213E+06  RDR =0.2031E+07
            RATIOI=0.3583E-01 RATIOOR= 0.000
            MAX UN= 3.995      IEQ= 51 NODE      26 DOF  1  Y-DISPL.F
            MIN UN=-.3957E-02 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=0.2213E+06 RIMNOR=0.2031E+07
            RENORM= 190.7      REMNOR=0.2830E-17  RATIO =0.2935E-01  TOLER =0.1000E-03  NOT CONVERGED
            RFMAX = 64.11      RMMAX = 188.4
            RTSMAL=0.1000E-03 RMSMAL=0.1000E-02
            RDT =0.2213E+06  RDR =0.2031E+07
            RATIOI=0.2935E-01 RATIOOR= 0.000
            MAX UN= 6.776      IEQ= 53 NODE      27 DOF  1  Y-DISPL.F
            MIN UN=-1.130      IEQ= 159 NODE     80 DOF  1  Y-DISPL.F
            NO. OF CONTACT CONSTRAINT VIOLATIONS 0

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ITER      4  RNORM = 0.000      RMNORM= 0.000
            RINORM=0.2213E+06 RIMNOR=0.2031E+07
            RENORM= 3.002      REMNOR=0.1185E-17  RATIO =0.3683E-02  TOLER =0.1000E-03  NOT CONVERGED
            RFMAX = 64.11      RMMAX = 188.4
            RTSMAL=0.1000E-03 RMSMAL=0.1000E-02
            RDT =0.2213E+06  RDR =0.2031E+07
            RATIOI=0.3683E-02 RATIOOR= 0.000
            MAX UN= 1.468      IEQ= 119 NODE     60 DOF  1  Y-DISPL.F
            MIN UN=-.3519E-01 IEQ= 135 NODE     68 DOF  1  Y-DISPL.F
            NO. OF CONTACT CONSTRAINT VIOLATIONS 0

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ITER      5  RNORM = 0.000      RMNORM= 0.000
            RINORM=0.2213E+06 RIMNOR=0.2031E+07
            RENORM=0.1012E-01 REMNOR=0.1172E-17  RATIO =0.2139E-03  TOLER =0.1000E-03  NOT CONVERGED
            RFMAX = 64.11      RMMAX = 188.4
            RTSMAL=0.1000E-03 RMSMAL=0.1000E-02
            RDT =0.2213E+06  RDR =0.2031E+07
            RATIOI=0.2139E-03 RATIOOR= 0.000
            MAX UN=0.1009E-07 IEQ= 9 NODE      5 DOF  1  Y-DISPL.F
            MIN UN=-.4091E-01 IEQ= 137 NODE     69 DOF  1  Y-DISPL.F
            NO. OF CONTACT CONSTRAINT VIOLATIONS 0

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ITER      6  RNORM = 0.000      RMNORM= 0.000
            RINORM=0.2213E+06 RIMNOR=0.2031E+07
            RENORM=0.1067E-02 REMNOR=0.1549E-17  RATIO =0.6943E-04  TOLER =0.1000E-03  CONVERGED !
            RFMAX = 64.11      RMMAX = 188.4
            RTSMAL=0.1000E-03 RMSMAL=0.1000E-02
            RDT =0.2213E+06  RDR =0.2031E+07
            RATIOI=0.6943E-04 RATIOOR= 0.000
            MAX UN=0.1451E-01 IEQ= 121 NODE     61 DOF  1  Y-DISPL.F
            MIN UN=-.8356E-08 IEQ= 7 NODE      4 DOF  1  Y-DISPL.F
            NO. OF CONTACT CONSTRAINT VIOLATIONS 0

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|                PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
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New Project
SOLUTION REACHED USING      6 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	1.9473034E-02	-2.2062447E-03	
2	1.9031785E-02	-2.2062447E-03	
3	1.8590537E-02	-2.2062382E-03	
4	1.8149291E-02	-2.2062056E-03	
5	1.7708058E-02	-2.2061144E-03	
6	1.7266853E-02	-2.2059186E-03	
7	1.6825702E-02	-2.2055592E-03	
8	1.6384645E-02	-2.2049639E-03	
9	1.5943737E-02	-2.2040473E-03	
10	1.5503054E-02	-2.2027103E-03	
11	1.5062689E-02	-2.2008407E-03	
12	1.4622761E-02	-2.1983130E-03	
13	1.4183417E-02	-2.1949885E-03	
14	1.3744829E-02	-2.1907152E-03	
15	1.3307205E-02	-2.1853282E-03	
16	1.2870784E-02	-2.1786491E-03	
17	1.2435842E-02	-2.1704865E-03	
18	1.2002700E-02	-2.1606360E-03	
19	1.1571715E-02	-2.1488800E-03	
20	1.1143290E-02	-2.1349877E-03	
21	1.0717880E-02	-2.1187155E-03	
22	1.0295982E-02	-2.0998064E-03	
23	9.8781490E-03	-2.0780299E-03	
24	9.4649723E-03	-2.0532212E-03	
25	9.0570693E-03	-2.0252813E-03	
26	8.6550708E-03	-1.9941767E-03	
27	8.2596094E-03	-1.9599402E-03	
28	7.8712990E-03	-1.9226693E-03	
29	7.4907330E-03	-1.8825282E-03	
30	7.1184638E-03	-1.8397463E-03	
31	6.7549913E-03	-1.7946120E-03	
32	6.4007572E-03	-1.7474309E-03	
33	6.0561380E-03	-1.6984906E-03	
34	5.7214601E-03	-1.6480630E-03	
35	5.3969949E-03	-1.5964041E-03	
36	5.0829645E-03	-1.5437545E-03	
37	4.7795455E-03	-1.4903410E-03	
38	4.4868664E-03	-1.4363756E-03	
39	4.2050187E-03	-1.3820584E-03	
40	3.9340540E-03	-1.3275769E-03	
41	3.6739872E-03	-1.2731072E-03	
42	3.4247993E-03	-1.2188146E-03	
43	3.1864392E-03	-1.1648545E-03	
44	2.9588256E-03	-1.1113730E-03	
45	2.7418499E-03	-1.0585079E-03	
46	2.5353738E-03	-1.0063884E-03	
47	2.3392367E-03	-9.5513732E-04	
48	2.1532532E-03	-9.0487081E-04	
49	1.9772154E-03	-8.5569923E-04	
50	1.8108943E-03	-8.0772805E-04	
51	1.6540383E-03	-7.6105755E-04	
52	1.5063745E-03	-7.1578377E-04	
53	1.3676282E-03	-6.7200473E-04	
54	1.2374743E-03	-6.2980586E-04	
55	1.1155945E-03	-5.8927820E-04	
56	1.0016458E-03	-5.5050896E-04	
57	8.9526794E-04	-5.1358425E-04	
58	7.9608343E-04	-4.7858956E-04	
59	7.0369775E-04	-4.4561027E-04	
60	6.1769926E-04	-4.1473201E-04	
61	5.3765912E-04	-3.8604111E-04	
62	4.6313116E-04	-3.5962496E-04	
63	3.9365571E-04	-3.3551033E-04	
64	3.2877645E-04	-3.1365440E-04	
65	2.6804728E-04	-2.9399844E-04	
66	2.1103530E-04	-2.7646912E-04	
67	1.5732364E-04	-2.6097970E-04	
68	1.0651404E-04	-2.4743102E-04	
69	5.8229117E-05	-2.3571408E-04	
70	1.2114029E-05	-2.2571282E-04	
71	-3.2162283E-05	-2.1730566E-04	
72	-7.4906095E-05	-2.1036642E-04	
73	-1.1639802E-04	-2.0476467E-04	

74	-1.5689217E-04	-2.0036599E-04
75	-1.9661541E-04	-1.9703223E-04
76	-2.3576660E-04	-1.9462165E-04
77	-2.7451593E-04	-1.9298906E-04
78	-3.1300419E-04	-1.9198592E-04
79	-3.5134213E-04	-1.9146022E-04
80	-3.8960974E-04	-1.9125638E-04
81	-4.2785744E-04	-1.9121525E-04

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|           PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*   |
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|           NewProject.BaseDesignSection_28.Nominal_63                                       |
|           Exe Time :24 May 2018           18:25:47                                         |
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New Project

STRESS RESULTS FOR GROUP NO. 1

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0_L
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 81
CURRENT TIME IS 5.0000

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HARDENING 2D SOIL ELEMENT

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

EL * FACTOR	FORCE UFACOR	DISPL-Y Peq	VERTICAL-P Su_a	HORIZON.-P Su_p	MAX-V-P LAYER	MAX-H-P	STATE	STIFFNESS	Z-LEVEL	PORE	E
1 D	0.000	-1.9473E-02	0.000	0.000	0.000	0.000	ACTIVE	0.000	0.000	0.000	
1.000	1.000	0.000	0.000	0.000	Ug5_2_8_L_0						
2 D	0.4571	-1.9032E-02	2.294	0.5712	2.294	1.603	ACTIVE	0.000	-0.2000	1.714	
1.000	1.000	2.285	0.000	0.000	Ug5_2_8_L_0						
3 D	0.9162	-1.8591E-02	4.628	1.152	4.628	3.119	ACTIVE	0.000	-0.4000	3.429	
1.000	1.000	4.581	0.000	0.000	Ug5_2_8_L_0						
4 D	1.378	-1.8149E-02	7.015	1.747	7.015	4.509	ACTIVE	0.000	-0.6000	5.143	
1.000	1.000	6.890	0.000	0.000	Ug5_2_8_L_0						
5 D	1.842	-1.7708E-02	9.440	2.351	9.440	5.780	ACTIVE	0.000	-0.8000	6.857	
1.000	1.000	9.208	0.000	0.000	Ug5_2_8_L_0						
6 D	2.306	-1.7267E-02	11.88	2.959	11.88	6.958	ACTIVE	0.000	-1.000	8.571	
1.000	1.000	11.53	0.000	0.000	Ug5_2_8_L_0						
7 D	2.771	-1.6826E-02	14.32	3.567	14.32	8.073	ACTIVE	0.000	-1.200	10.29	
1.000	1.000	13.85	0.000	0.000	Ug5_2_8_L_0						
8 D	3.240	-1.6385E-02	16.87	4.202	16.87	9.145	ACTIVE	0.000	-1.400	12.00	
1.000	1.000	16.20	0.000	0.000	Ug5_2_8_L_0						
9 D	3.712	-1.5944E-02	19.46	4.846	19.46	10.19	ACTIVE	0.000	-1.600	13.71	
1.000	1.000	18.56	0.000	0.000	Ug5_2_8_L_0						
10 D	4.173	-1.5503E-02	21.84	5.437	21.84	11.22	ACTIVE	0.000	-1.800	15.43	
1.000	1.000	20.87	0.000	0.000	Ug5_2_8_L_0						
11 D	4.641	-1.5063E-02	24.34	6.061	24.34	12.23	ACTIVE	0.000	-2.000	17.14	
1.000	1.000	23.20	0.000	0.000	Ug5_2_8_L_0						
12 D	5.107	-1.4623E-02	26.81	6.676	26.81	13.24	ACTIVE	0.000	-2.200	18.86	
1.000	1.000	25.53	0.000	0.000	Ug5_2_8_L_0						
13 D	5.565	-1.4183E-02	29.14	7.255	29.14	14.24	ACTIVE	0.000	-2.400	20.57	
1.000	1.000	27.83	0.000	0.000	Ug5_2_8_L_0						
14 D	6.029	-1.3745E-02	31.57	7.861	31.57	15.24	ACTIVE	0.000	-2.600	22.29	
1.000	1.000	30.15	0.000	0.000	Ug5_2_8_L_0						
15 D	6.492	-1.3307E-02	33.98	8.462	33.98	16.23	ACTIVE	0.000	-2.800	24.00	
1.000	1.000	32.46	0.000	0.000	Ug5_2_8_L_0						
16 D	6.955	-1.2871E-02	36.38	9.059	36.38	17.23	ACTIVE	0.000	-3.000	25.71	
1.000	1.000	34.77	0.000	0.000	Ug5_2_8_L_0						
17 D	7.412	-1.2436E-02	38.68	9.631	38.68	18.22	ACTIVE	0.000	-3.200	27.43	
1.000	1.000	37.06	0.000	0.000	Ug5_2_8_L_0						
18 D	7.873	-1.2003E-02	41.06	10.22	41.06	19.21	ACTIVE	0.000	-3.400	29.14	
1.000	1.000	39.37	0.000	0.000	Ug5_2_8_L_0						
19 D	8.334	-1.1572E-02	43.43	10.81	43.43	20.21	ACTIVE	0.000	-3.600	30.86	
1.000	1.000	41.67	0.000	0.000	Ug5_2_8_L_0						
20 D	8.791	-1.1143E-02	45.72	11.38	45.72	21.20	ACTIVE	0.000	-3.800	32.57	
1.000	1.000	43.95	0.000	0.000	Ug5_2_8_L_0						
21 D	9.251	-1.0718E-02	48.08	11.97	48.08	22.19	ACTIVE	0.000	-4.000	34.29	
1.000	1.000	46.26	0.000	0.000	Ug5_2_8_L_0						
22 D	9.711	-1.0296E-02	50.43	12.56	50.43	23.18	ACTIVE	0.000	-4.200	36.00	
1.000	1.000	48.56	0.000	0.000	Ug5_2_8_L_0						
23 D	10.17	-9.8781E-03	52.71	13.12	52.71	24.18	ACTIVE	0.000	-4.400	37.71	
1.000	1.000	50.84	0.000	0.000	Ug5_2_8_L_0						
24 D	10.63	-9.4650E-03	55.06	13.71	55.06	25.17	ACTIVE	0.000	-4.600	39.43	
1.000	1.000	53.14	0.000	0.000	Ug5_2_8_L_0						
25 D	11.09	-9.0571E-03	57.40	14.29	57.40	26.17	ACTIVE	0.000	-4.800	41.14	
1.000	1.000	55.43	0.000	0.000	Ug5_2_8_L_0						
26 D	11.55	-8.6551E-03	59.73	14.87	59.73	27.16	ACTIVE	0.000	-5.000	42.86	
1.000	1.000	57.73	0.000	0.000	Ug5_2_8_L_0						
27 D	12.00	-8.2596E-03	62.01	15.44	62.01	28.16	ACTIVE	0.000	-5.200	44.57	
1.000	1.000	60.01	0.000	0.000	Ug5_2_8_L_0						
28 D	12.46	-7.8713E-03	64.34	16.02	64.34	29.16	ACTIVE	0.000	-5.400	46.29	
1.000	1.000	62.31	0.000	0.000	Ug5_2_8_L_0						
29 D	12.92	-7.4907E-03	66.67	16.60	66.67	30.15	ACTIVE	0.000	-5.600	48.00	
1.000	1.000	64.60	0.000	0.000	Ug5_2_8_L_0						
30 D	13.38	-7.1185E-03	68.95	17.17	68.95	31.15	ACTIVE	0.000	-5.800	49.71	
1.000	1.000	66.88	0.000	0.000	Ug5_2_8_L_0						
31 D	13.83	-6.7550E-03	71.27	17.75	71.27	32.15	ACTIVE	0.000	-6.000	51.43	
1.000	1.000	69.17	0.000	0.000	Ug5_2_8_L_0						
32 D	14.29	-6.4008E-03	73.59	18.32	73.59	33.15	ACTIVE	0.000	-6.200	53.14	
1.000	1.000	71.47	0.000	0.000	Ug5_2_8_L_0						
33 D	14.75	-6.0561E-03	75.87	18.89	75.87	34.15	ACTIVE	0.000	-6.400	54.86	

1.000	1.000	73.75	0.000	0.000	Ug5_2_8_L_0						
34 D	15.21	-5.7215E-03	78.19	19.47	78.19	35.15	ACTIVE	0.000	-6.600	56.57	
1.000	1.000	76.04	0.000	0.000	Ug5_2_8_L_0						
35 D	15.67	-5.3970E-03	80.51	20.05	80.51	36.15	ACTIVE	0.000	-6.800	58.29	
1.000	1.000	78.33	0.000	0.000	Ug5_2_8_L_0						
36 D	16.12	-5.0830E-03	82.82	20.62	82.82	37.16	ACTIVE	0.000	-7.000	60.00	
1.000	1.000	80.62	0.000	0.000	Ug5_2_8_L_0						
37 D	16.58	-4.7795E-03	85.10	21.19	85.10	38.16	ACTIVE	0.000	-7.200	61.71	
1.000	1.000	82.90	0.000	0.000	Ug5_2_8_L_0						
38 D	17.04	-4.4869E-03	87.41	21.76	87.41	39.16	ACTIVE	0.000	-7.400	63.43	
1.000	1.000	85.19	0.000	0.000	Ug5_2_8_L_0						
39 D	17.50	-4.2050E-03	89.72	22.34	89.72	40.17	ACTIVE	0.000	-7.600	65.14	
1.000	1.000	87.48	0.000	0.000	Ug5_2_8_L_0						
40 D	17.95	-3.9341E-03	92.00	22.91	92.00	41.17	ACTIVE	0.000	-7.800	66.86	
1.000	1.000	89.76	0.000	0.000	Ug5_2_8_L_0						
41 D	18.41	-3.6740E-03	94.31	23.48	94.31	42.18	ACTIVE	0.000	-8.000	68.57	
1.000	1.000	92.05	0.000	0.000	Ug5_2_8_L_0						
42 D	18.87	-3.4248E-03	96.62	24.06	96.62	43.19	ACTIVE	0.000	-8.200	70.29	
1.000	1.000	94.34	0.000	0.000	Ug5_2_8_L_0						
43 D	19.32	-3.1864E-03	98.89	24.62	98.89	44.19	ACTIVE	0.000	-8.400	72.00	
1.000	1.000	96.62	0.000	0.000	Ug5_2_8_L_0						
44 D	19.78	-2.9588E-03	101.2	25.20	101.2	45.20	ACTIVE	0.000	-8.600	73.71	
1.000	1.000	98.89	0.000	0.000	Ug5_2_8_L_0						
45 D	20.24	-2.7418E-03	103.5	25.77	103.5	46.21	ACTIVE	0.000	-8.800	75.43	
1.000	1.000	101.2	0.000	0.000	Ug5_2_8_L_0						
46 D	20.70	-2.5354E-03	105.8	26.35	105.8	47.22	ACTIVE	0.000	-9.000	77.14	
1.000	1.000	103.5	0.000	0.000	Ug5_2_8_L_0						
47 D	21.15	-2.3392E-03	108.1	26.92	108.1	48.23	UL-RL	5.6410E+04	-9.200	78.86	
1.000	1.000	105.8	0.000	0.000	Ug5_2_8_L_0						
48 D	21.61	-2.1533E-03	110.4	27.49	110.4	49.24	UL-RL	5.6410E+04	-9.400	80.57	
1.000	1.000	108.1	0.000	0.000	Ug5_2_8_L_0						
49 D	22.07	-1.9772E-03	112.7	28.07	112.7	50.26	UL-RL	5.6410E+04	-9.600	82.29	
1.000	1.000	110.4	0.000	0.000	Ug5_2_8_L_0						
50 D	22.53	-1.8109E-03	115.0	28.64	115.0	51.27	UL-RL	5.6410E+04	-9.800	84.00	
1.000	1.000	112.6	0.000	0.000	Ug5_2_8_L_0						
51 D	22.99	-1.6540E-03	117.3	29.22	117.3	52.28	UL-RL	5.6410E+04	-10.000	85.71	
1.000	1.000	114.9	0.000	0.000	Ug5_2_8_L_0						
52 D	23.44	-1.5064E-03	119.6	29.79	119.6	53.29	UL-RL	5.6410E+04	-10.200	87.43	
1.000	1.000	117.2	0.000	0.000	Ug5_2_8_L_0						
53 D	23.90	-1.3676E-03	121.9	30.36	121.9	54.31	UL-RL	5.6410E+04	-10.400	89.14	
1.000	1.000	119.5	0.000	0.000	Ug5_2_8_L_0						
54 D	24.36	-1.2375E-03	124.2	30.94	124.2	55.32	UL-RL	5.6410E+04	-10.600	90.86	
1.000	1.000	121.8	0.000	0.000	Ug5_2_8_L_0						
55 D	24.82	-1.1156E-03	126.5	31.52	126.5	56.34	UL-RL	5.6410E+04	-10.800	92.57	
1.000	1.000	124.1	0.000	0.000	Ug5_2_8_L_0						
56 D	25.28	-1.0016E-03	128.8	32.09	128.8	57.35	UL-RL	5.6410E+04	-11.000	94.29	
1.000	1.000	126.4	0.000	0.000	Ug5_2_8_L_0						
57 D	25.73	-8.9527E-04	131.0	32.66	131.0	58.37	UL-RL	5.6410E+04	-11.200	96.00	
1.000	1.000	128.7	0.000	0.000	Ug5_2_8_L_0						
58 D	26.19	-7.9608E-04	133.3	33.24	133.3	59.39	UL-RL	5.6410E+04	-11.400	97.71	
1.000	1.000	131.0	0.000	0.000	Ug5_2_8_L_0						
59 D	26.65	-7.0370E-04	135.6	33.82	135.6	60.40	UL-RL	5.6410E+04	-11.600	99.43	
1.000	1.000	133.2	0.000	0.000	Ug5_2_8_L_0						
60 D	27.11	-6.1770E-04	137.9	34.39	137.9	61.42	UL-RL	5.6410E+04	-11.800	101.1	
1.000	1.000	135.5	0.000	0.000	Ug5_2_8_L_0						
61 D	27.56	-5.3766E-04	140.2	34.97	140.2	62.44	UL-RL	5.6410E+04	-12.000	102.9	
1.000	1.000	137.8	0.000	0.000	Ug5_2_8_L_0						
62 D	31.77	-4.6313E-04	142.3	54.26	142.3	63.42	UL-RL	2.7006E+04	-12.200	104.6	
1.000	1.000	158.8	0.000	0.000	Ug6_741_743_L_0						
63 D	32.68	-3.9366E-04	144.4	57.14	144.4	64.53	UL-RL	2.7006E+04	-12.400	106.3	
1.000	1.000	163.4	0.000	0.000	Ug6_741_743_L_0						
64 D	33.57	-3.2878E-04	146.5	59.87	146.5	65.58	UL-RL	2.7006E+04	-12.600	108.0	
1.000	1.000	167.9	0.000	0.000	Ug6_741_743_L_0						
65 D	34.44	-2.6805E-04	148.6	62.49	148.6	66.59	UL-RL	2.7006E+04	-12.800	109.7	
1.000	1.000	172.2	0.000	0.000	Ug6_741_743_L_0						
66 D	35.28	-2.1104E-04	150.6	64.99	150.6	67.57	UL-RL	2.7006E+04	-13.000	111.4	
1.000	1.000	176.4	0.000	0.000	Ug6_741_743_L_0						
67 D	36.11	-1.5732E-04	152.7	67.40	152.7	68.52	UL-RL	2.7006E+04	-13.200	113.1	
1.000	1.000	180.5	0.000	0.000	Ug6_741_743_L_0						
68 D	36.81	-1.0651E-04	154.7	69.17	154.7	69.72	UL-RL	2.7006E+04	-13.400	114.9	
1.000	1.000	184.0	0.000	0.000	Ug6_741_743_L_0						
69 D	37.46	-5.8229E-05	156.8	70.71	156.8	70.98	UL-RL	2.7006E+04	-13.600	116.6	
1.000	1.000	187.3	0.000	0.000	Ug6_741_743_L_0						
70 D	38.07	-1.2114E-05	158.8	72.05	158.8	72.29	UL-RL	2.7006E+04	-13.800	118.3	
1.000	1.000	190.3	0.000	0.000	Ug6_741_743_L_0						
71 D	38.67	3.2162E-05	160.9	73.35	160.9	73.58	UL-RL	2.7006E+04	-14.000	120.0	
1.000	1.000	193.4	0.000	0.000	Ug6_741_743_L_0						
72 D	39.27	7.4906E-05	162.9	74.64	162.9	74.84	UL-RL	2.7006E+04	-14.200	121.7	
1.000	1.000	196.4	0.000	0.000	Ug6_741_743_L_0						
73 D	39.87	1.1640E-04	165.0	75.91	165.0	76.09	UL-RL	2.7006E+04	-14.400	123.4	
1.000	1.000	199.3	0.000	0.000	Ug6_741_743_L_0						
74 D	40.46	1.5689E-04	167.1	77.17	167.1	77.33	UL-RL	2.7006E+04	-14.600	125.1	
1.000	1.000	202.3	0.000	0.000	Ug6_741_743_L_0						
75 D	41.05	1.9662E-04	169.1	78.41	169.1	78.56	UL-RL	2.7006E+04	-14.800	126.9	
1.000	1.000	205.3	0.000	0.000	Ug6_741_743_L_0						
76 D	41.65	2.3577E-04	171.2	79.65	171.2	79.78	UL-RL	2.7006E+04	-15.000	128.6	
1.000	1.000	208.2	0.000	0.000	Ug6_741_743_L_0						
77 D	42.24	2.7452E-04	173.2	80.89	173.2	80.99	UL-RL	2.7006E+04	-15.200	130.3	
1.000	1.000	211.2	0.000	0.000	Ug6_741_743_L_0						
78 D	42.84	3.1300E-04	175.3	82.18	175.3	82.26	UL-RL	2.7006E+04	-15.400	132.0	
1.000	1.000	214.2	0.000	0.000	Ug6_741_743_L_0						

79 D	43.44	3.5134E-04	177.4	83.47	177.4	83.53	UL-RL	2.7006E+04	-15.60	133.7
1.000	1.000	217.2	0.000	0.000	Ug6_741_743_L_0					
80 D	44.04	3.8961E-04	179.4	84.76	179.4	84.80	UL-RL	2.7006E+04	-15.80	135.4
1.000	1.000	220.2	0.000	0.000	Ug6_741_743_L_0					
81 D	22.32	4.2786E-04	181.5	86.05	181.5	86.06	UL-RL	2.7006E+04	-16.00	137.1
1.000	1.000	223.2	0.000	0.000	Ug6_741_743_L_0					



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|                PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*                |
|                                                                                                                                            |
|                                                                                                                                            |
|                NewProject.BaseDesignSection_28.Nominal_63                                                                              |
|                Exe Time :24 May 2018      18:25:47                                                                              |
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New Project

STRESS RESULTS FOR GROUP NO. 2

0\_R :  
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 81  
CURRENT TIME IS 5.0000

HARDENING 2D SOIL ELEMENT

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

EL * FACTOR	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
1	0.000	--	--	--	--	--	REMOVED	--	0.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
2	0.000	--	--	--	--	--	REMOVED	--	-0.2000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
3	0.000	--	--	--	--	--	REMOVED	--	-0.4000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
4	0.000	--	--	--	--	--	REMOVED	--	-0.6000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
5	0.000	--	--	--	--	--	REMOVED	--	-0.8000	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	--	-1.200	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
8	0.000	--	--	--	--	--	REMOVED	--	-1.400	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
9	0.000	--	--	--	--	--	REMOVED	--	-1.600	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
10	0.000	--	--	--	--	--	REMOVED	--	-1.800	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
11	0.000	--	--	--	--	--	REMOVED	--	-2.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
12	0.000	--	--	--	--	--	REMOVED	--	-2.200	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
13	0.000	--	--	--	--	--	REMOVED	--	-2.400	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
14	0.000	--	--	--	--	--	REMOVED	--	-2.600	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
15	0.000	--	--	--	--	--	REMOVED	--	-2.800	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
16	0.000	--	--	--	--	--	REMOVED	--	-3.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
17	0.000	--	--	--	--	--	REMOVED	--	-3.200	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
18	0.000	--	--	--	--	--	REMOVED	--	-3.400	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
19	0.000	--	--	--	--	--	REMOVED	--	-3.600	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
20	0.000	--	--	--	--	--	REMOVED	--	-3.800	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
21 D	0.000	1.0718E-02	0.000	0.000	40.00	60.41	PASSIVE	0.000	-4.000	0.000	
1.000	1.000	0.000	0.000	0.000	Ug5_2_8_L_0						
22 D	2.767	1.0296E-02	1.714	11.55	42.00	65.98	PASSIVE	0.000	-4.200	2.286	
1.000	1.000	13.84	0.000	0.000	Ug5_2_8_L_0						
23 D	5.535	9.8781E-03	3.429	23.10	44.00	64.48	PASSIVE	0.000	-4.400	4.571	
1.000	1.000	27.67	0.000	0.000	Ug5_2_8_L_0						
24 D	8.302	9.4650E-03	5.143	34.65	46.00	63.03	PASSIVE	0.000	-4.600	6.857	
1.000	1.000	41.51	0.000	0.000	Ug5_2_8_L_0						
25 D	11.07	9.0571E-03	6.857	46.20	48.00	61.64	PASSIVE	0.000	-4.800	9.143	
1.000	1.000	55.35	0.000	0.000	Ug5_2_8_L_0						
26 D	13.84	8.6551E-03	8.571	57.75	50.00	60.31	PASSIVE	0.000	-5.000	11.43	
1.000	1.000	69.18	0.000	0.000	Ug5_2_8_L_0						
27 D	16.60	8.2596E-03	10.29	69.31	52.00	69.31	PASSIVE	0.000	-5.200	13.71	
1.000	1.000	83.02	0.000	0.000	Ug5_2_8_L_0						
28 D	19.37	7.8713E-03	12.00	80.86	54.00	80.86	PASSIVE	0.000	-5.400	16.00	
1.000	1.000	96.86	0.000	0.000	Ug5_2_8_L_0						
29 D	22.14	7.4907E-03	13.71	92.41	56.00	92.41	PASSIVE	0.000	-5.600	18.29	
1.000	1.000	110.7	0.000	0.000	Ug5_2_8_L_0						
30 D	24.41	7.1185E-03	15.43	101.5	58.00	101.5	V-C	9348.	-5.800	20.57	
1.000	1.000	122.0	0.000	0.000	Ug5_2_8_L_0						
31 D	24.25	6.7550E-03	17.14	98.41	60.00	98.41	V-C	9348.	-6.000	22.86	
1.000	1.000	121.3	0.000	0.000	Ug5_2_8_L_0						
32 D	24.12	6.4008E-03	18.86	95.46	62.00	95.46	V-C	9348.	-6.200	25.14	
1.000	1.000	120.6	0.000	0.000	Ug5_2_8_L_0						
33 D	24.01	6.0561E-03	20.57	92.62	64.00	92.62	V-C	9348.	-6.400	27.43	

1.000	1.000	120.0	0.000	0.000	Ug5_2_8_L_0						
34 D	23.92	5.7215E-03	22.29	89.91	66.00	89.91	V-C	9348.	-6.600	29.71	
1.000	1.000	119.6	0.000	0.000	Ug5_2_8_L_0						
35 D	23.86	5.3970E-03	24.00	87.32	68.00	87.32	V-C	9348.	-6.800	32.00	
1.000	1.000	119.3	0.000	0.000	Ug5_2_8_L_0						
36 D	23.83	5.0830E-03	25.71	84.85	70.00	84.85	V-C	9348.	-7.000	34.29	
1.000	1.000	119.1	0.000	0.000	Ug5_2_8_L_0						
37 D	23.82	4.7795E-03	27.43	82.52	72.00	82.52	V-C	9348.	-7.200	36.57	
1.000	1.000	119.1	0.000	0.000	Ug5_2_8_L_0						
38 D	23.83	4.4869E-03	29.14	80.31	74.00	80.31	V-C	9348.	-7.400	38.86	
1.000	1.000	119.2	0.000	0.000	Ug5_2_8_L_0						
39 D	23.88	4.2050E-03	30.86	78.24	76.00	78.24	V-C	9348.	-7.600	41.14	
1.000	1.000	119.4	0.000	0.000	Ug5_2_8_L_0						
40 D	23.94	3.9341E-03	32.57	76.29	78.00	76.29	V-C	9348.	-7.800	43.43	
1.000	1.000	119.7	0.000	0.000	Ug5_2_8_L_0						
41 D	24.04	3.6740E-03	34.29	74.47	80.00	74.47	V-C	9348.	-8.000	45.71	
1.000	1.000	120.2	0.000	0.000	Ug5_2_8_L_0						
42 D	24.16	3.4248E-03	36.00	72.78	82.00	72.78	V-C	9348.	-8.200	48.00	
1.000	1.000	120.8	0.000	0.000	Ug5_2_8_L_0						
43 D	24.30	3.1864E-03	37.71	71.22	84.00	71.22	V-C	9348.	-8.400	50.29	
1.000	1.000	121.5	0.000	0.000	Ug5_2_8_L_0						
44 D	24.47	2.9588E-03	39.43	69.78	86.00	69.78	V-C	9348.	-8.600	52.57	
1.000	1.000	122.4	0.000	0.000	Ug5_2_8_L_0						
45 D	24.67	2.7418E-03	41.14	68.47	88.00	68.47	V-C	9348.	-8.800	54.86	
1.000	1.000	123.3	0.000	0.000	Ug5_2_8_L_0						
46 D	24.88	2.5354E-03	42.86	67.28	90.00	67.28	V-C	9348.	-9.000	57.14	
1.000	1.000	124.4	0.000	0.000	Ug5_2_8_L_0						
47 D	25.13	2.3392E-03	44.57	66.20	92.00	66.21	UL-RL	2.8045E+04	-9.200	59.43	
1.000	1.000	125.6	0.000	0.000	Ug5_2_8_L_0						
48 D	25.39	2.1533E-03	46.29	65.25	94.00	65.25	UL-RL	2.8045E+04	-9.400	61.71	
1.000	1.000	127.0	0.000	0.000	Ug5_2_8_L_0						
49 D	25.68	1.9772E-03	48.00	64.40	96.00	64.41	UL-RL	2.8045E+04	-9.600	64.00	
1.000	1.000	128.4	0.000	0.000	Ug5_2_8_L_0						
50 D	25.99	1.8109E-03	49.71	63.67	98.00	63.68	UL-RL	2.8045E+04	-9.800	66.29	
1.000	1.000	130.0	0.000	0.000	Ug5_2_8_L_0						
51 D	26.32	1.6540E-03	51.43	63.04	100.00	63.05	UL-RL	2.8045E+04	-10.000	68.57	
1.000	1.000	131.6	0.000	0.000	Ug5_2_8_L_0						
52 D	26.68	1.5064E-03	53.14	62.52	102.0	62.53	UL-RL	2.8045E+04	-10.200	70.86	
1.000	1.000	133.4	0.000	0.000	Ug5_2_8_L_0						
53 D	27.05	1.3676E-03	54.86	62.10	104.0	62.11	UL-RL	2.8045E+04	-10.400	73.14	
1.000	1.000	135.2	0.000	0.000	Ug5_2_8_L_0						
54 D	27.44	1.2375E-03	56.57	61.77	106.0	61.78	UL-RL	2.8045E+04	-10.600	75.43	
1.000	1.000	137.2	0.000	0.000	Ug5_2_8_L_0						
55 D	27.85	1.1156E-03	58.29	61.53	108.0	61.55	UL-RL	2.8045E+04	-10.800	77.71	
1.000	1.000	139.2	0.000	0.000	Ug5_2_8_L_0						
56 D	28.28	1.0016E-03	60.00	61.38	110.0	61.40	UL-RL	2.8045E+04	-11.000	80.00	
1.000	1.000	141.4	0.000	0.000	Ug5_2_8_L_0						
57 D	28.72	8.9527E-04	61.71	61.32	112.0	61.33	UL-RL	2.8045E+04	-11.200	82.29	
1.000	1.000	143.6	0.000	0.000	Ug5_2_8_L_0						
58 D	29.18	7.9608E-04	63.43	61.33	114.0	61.35	UL-RL	2.8045E+04	-11.400	84.57	
1.000	1.000	145.9	0.000	0.000	Ug5_2_8_L_0						
59 D	29.65	7.0370E-04	65.14	61.41	116.0	61.43	UL-RL	2.8045E+04	-11.600	86.86	
1.000	1.000	148.3	0.000	0.000	Ug5_2_8_L_0						
60 D	30.14	6.1770E-04	66.86	61.56	118.0	61.59	UL-RL	2.8045E+04	-11.800	89.14	
1.000	1.000	150.7	0.000	0.000	Ug5_2_8_L_0						
61 D	30.64	5.3766E-04	68.57	61.78	120.0	61.81	UL-RL	2.8045E+04	-12.000	91.43	
1.000	1.000	153.2	0.000	0.000	Ug5_2_8_L_0						
62 D	30.55	4.6313E-04	70.09	59.06	121.8	61.39	UL-RL	2.1089E+04	-12.200	93.71	
1.000	1.000	152.8	0.000	0.000	Ug6_741_743_L_0						
63 D	30.89	3.9366E-04	71.60	58.44	123.6	62.28	UL-RL	2.1089E+04	-12.400	96.00	
1.000	1.000	154.4	0.000	0.000	Ug6_741_743_L_0						
64 D	31.24	3.2878E-04	73.11	57.94	125.4	63.16	UL-RL	2.1089E+04	-12.600	98.29	
1.000	1.000	156.2	0.000	0.000	Ug6_741_743_L_0						
65 D	31.62	2.6805E-04	74.63	57.53	127.2	64.05	UL-RL	2.1089E+04	-12.800	100.6	
1.000	1.000	158.1	0.000	0.000	Ug6_741_743_L_0						
66 D	32.01	2.1104E-04	76.14	57.20	129.0	64.94	UL-RL	2.1089E+04	-13.000	102.9	
1.000	1.000	160.1	0.000	0.000	Ug6_741_743_L_0						
67 D	32.42	1.5732E-04	77.66	56.95	130.8	65.83	UL-RL	2.1089E+04	-13.200	105.1	
1.000	1.000	162.1	0.000	0.000	Ug6_741_743_L_0						
68 D	32.84	1.0651E-04	79.17	56.77	132.6	66.72	UL-RL	2.1089E+04	-13.400	107.4	
1.000	1.000	164.2	0.000	0.000	Ug6_741_743_L_0						
69 D	33.27	5.8229E-05	80.69	56.64	134.4	67.60	UL-RL	2.1089E+04	-13.600	109.7	
1.000	1.000	166.4	0.000	0.000	Ug6_741_743_L_0						
70 D	33.71	1.2114E-05	82.20	56.56	136.2	68.49	UL-RL	2.1089E+04	-13.800	112.0	
1.000	1.000	168.6	0.000	0.000	Ug6_741_743_L_0						
71 D	34.16	-3.2162E-05	83.71	56.52	138.0	69.38	UL-RL	2.1089E+04	-14.000	114.3	
1.000	1.000	170.8	0.000	0.000	Ug6_741_743_L_0						
72 D	34.62	-7.4906E-05	85.23	56.51	139.8	70.27	UL-RL	2.1089E+04	-14.200	116.6	
1.000	1.000	173.1	0.000	0.000	Ug6_741_743_L_0						
73 D	35.08	-1.1640E-04	86.74	56.54	141.6	71.16	UL-RL	2.1089E+04	-14.400	118.9	
1.000	1.000	175.4	0.000	0.000	Ug6_741_743_L_0						
74 D	35.54	-1.5689E-04	88.26	56.58	143.4	72.05	UL-RL	2.1089E+04	-14.600	121.1	
1.000	1.000	177.7	0.000	0.000	Ug6_741_743_L_0						
75 D	36.01	-1.9662E-04	89.77	56.64	145.2	72.94	UL-RL	2.1089E+04	-14.800	123.4	
1.000	1.000	180.1	0.000	0.000	Ug6_741_743_L_0						
76 D	36.49	-2.3577E-04	91.29	56.71	147.0	73.84	UL-RL	2.1089E+04	-15.000	125.7	
1.000	1.000	182.4	0.000	0.000	Ug6_741_743_L_0						
77 D	36.96	-2.7452E-04	92.80	56.80	148.8	74.73	UL-RL	2.1089E+04	-15.200	128.0	
1.000	1.000	184.8	0.000	0.000	Ug6_741_743_L_0						
78 D	37.43	-3.1300E-04	94.31	56.88	150.6	75.62	UL-RL	2.1089E+04	-15.400	130.3	
1.000	1.000	187.2	0.000	0.000	Ug6_741_743_L_0						

79 D	37.91	-3.5134E-04	95.83	56.97	152.4	76.51	UL-RL	2.1089E+04	-15.60	132.6
1.000	1.000	189.5	0.000	0.000	Ug6_741_743_L_0					
80 D	38.38	-3.8961E-04	97.34	57.06	154.2	77.40	UL-RL	2.1089E+04	-15.80	134.9
1.000	1.000	191.9	0.000	0.000	Ug6_741_743_L_0					
81 D	19.43	-4.2786E-04	98.86	57.16	156.0	78.29	UL-RL	2.1089E+04	-16.00	137.1
1.000	1.000	194.3	0.000	0.000	Ug6_741_743_L_0					

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
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New Project

STRESS RESULTS FOR GROUP NO. 3

WallElement\_33 :  
ELEMENT TYPE 2 NO.OF ELEMENTS. IN THIS GROUP 80  
CURRENT TIME IS 5.0000

WALL2D ELEMENT

EL	TA	TB	MA	MB
1	4.81261E-09	4.81261E-09	-4.83055E-10	6.83633E-12
2	0.45709	-0.45709	-1.60067E-10	9.14178E-02
3	1.3733	-1.3733	-9.14178E-02	0.36608
4	2.7512	-2.7512	-0.36608	0.91632
5	4.5928	-4.5928	-0.91632	1.8349
6	6.8988	-6.8988	-1.8349	3.2146
7	9.6693	-9.6693	-3.2146	5.1485
8	12.910	-12.910	-5.1485	7.7304
9	16.622	-16.622	-7.7304	11.055
10	20.795	-20.795	-11.055	15.214
11	25.436	-25.436	-15.214	20.301
12	30.542	-30.542	-20.301	26.409
13	36.108	-36.108	-26.409	33.631
14	42.137	-42.137	-33.631	42.058
15	48.629	-48.629	-42.058	51.784
16	55.584	-55.584	-51.784	62.901
17	62.996	-62.996	-62.901	75.500
18	70.869	-70.869	-75.500	89.674
19	79.204	-79.204	-89.674	105.51
20	87.995	-87.995	-105.51	123.11
21	97.246	-97.246	-123.11	142.56
22	104.19	-104.19	-142.56	163.40
23	108.82	-108.82	-163.40	185.17
24	111.15	-111.15	-185.17	207.40
25	111.17	-111.17	-207.40	229.63
26	108.88	-108.88	-229.63	251.40
27	104.27	-104.27	-251.40	272.26
28	97.365	-97.365	-272.26	291.73
29	88.146	-88.146	-291.73	309.36
30	77.114	-77.114	-309.36	324.78
31	66.697	-66.697	-324.78	338.12
32	56.871	-56.871	-338.12	349.50
33	47.610	-47.610	-349.50	359.02
34	38.894	-38.894	-359.02	366.80
35	30.697	-30.697	-366.80	372.94
36	22.993	-22.993	-372.94	377.54
37	15.756	-15.756	-377.54	380.69
38	8.9605	-8.9605	-380.69	382.48
39	2.5816	-2.5816	-382.48	383.00
40	-3.4089	3.4089	-383.00	382.31
41	-9.0350	9.0350	-382.31	380.51
42	-14.322	14.322	-380.51	377.64
43	-19.298	19.298	-377.64	373.78
44	-23.986	23.986	-373.78	368.99
45	-28.411	28.411	-368.99	363.30
46	-32.597	32.597	-363.30	356.78
47	-36.570	36.570	-356.78	349.47
48	-40.350	40.350	-349.47	341.40
49	-43.962	43.962	-341.40	332.61
50	-47.429	47.429	-332.61	323.12
51	-50.770	50.770	-323.12	312.97
52	-54.006	54.006	-312.97	302.17
53	-57.159	57.159	-302.17	290.74
54	-60.246	60.246	-290.74	278.69
55	-63.285	63.285	-278.69	266.03
56	-66.295	66.295	-266.03	252.77
57	-69.292	69.292	-252.77	238.91
58	-72.291	72.291	-238.91	224.45
59	-75.308	75.308	-224.45	209.39
60	-78.356	78.356	-209.39	193.72
61	-81.448	81.448	-193.72	177.43
62	-80.236	80.236	-177.43	161.38
63	-78.440	78.440	-161.38	145.70
64	-76.110	76.110	-145.70	130.47
65	-73.289	73.289	-130.47	115.82
66	-70.015	70.015	-115.82	101.81
67	-66.324	66.324	-101.81	88.548
68	-62.357	62.357	-88.548	76.077
69	-58.171	58.171	-76.077	64.443

70	-53.816	53.816	-64.443	53.679
71	-49.307	49.307	-53.679	43.818
72	-44.653	44.653	-43.818	34.888
73	-39.864	39.864	-34.888	26.915
74	-34.947	34.947	-26.915	19.925
75	-29.907	29.907	-19.925	13.944
76	-24.748	24.748	-13.944	8.9943
77	-19.472	19.472	-8.9943	5.1000
78	-14.069	14.069	-5.1000	2.2862
79	-8.5417	8.5417	-2.2862	0.57781
80	-2.8889	2.8889	-0.57781	9.05243E-12

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ITER      0  RNORM = 0.000      RMNORM= 0.000
            RINORM=0.6092E+06  RIMNOR=0.8227E+07
            RENORM= 440.5      REMNOR=0.1549E-17  RATIO =0.2689E-01  TOLER =0.1000E-03  NOT CONVERGED
            RFMAX = 111.2      RMMAX = 383.0
            RTSMAL=0.1000E-02  RMSMAL=0.1000E-02
            RDT =0.6092E+06    RDR =0.8227E+07
            RATIOI=0.2689E-01  RATIOOR= 0.000
            MAX UN= 7.064      IEQ= 57 NODE      29 DOF      1 Y-DISPL.F
            MIN UN=-.8312E-01  IEQ= 41 NODE      21 DOF      1 Y-DISPL.F
            NO. OF CONTACT CONSTRAINT VIOLATIONS      0

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ITER      2  RNORM = 0.000      RMNORM= 0.000
            RINORM=0.6092E+06  RIMNOR=0.8227E+07
            RENORM= 126.0      REMNOR=0.1559E-17  RATIO =0.1438E-01  TOLER =0.1000E-03  NOT CONVERGED
            RFMAX = 111.2      RMMAX = 383.0
            RTSMAL=0.1000E-02  RMSMAL=0.1000E-02
            RDT =0.6092E+06    RDR =0.8227E+07
            RATIOI=0.1438E-01  RATIOOR= 0.000
            MAX UN= 2.378      IEQ= 63 NODE      32 DOF      1 Y-DISPL.F
            MIN UN=-.4778E-08  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=0.6092E+06  RIMNOR=0.8227E+07
            RENORM= 461.4      REMNOR=0.1752E-17  RATIO =0.2752E-01  TOLER =0.1000E-03  NOT CONVERGED
            RFMAX = 111.2      RMMAX = 383.0
            RTSMAL=0.1000E-02  RMSMAL=0.1000E-02
            RDT =0.6092E+06    RDR =0.8227E+07
            RATIOI=0.2752E-01  RATIOOR= 0.000
            MAX UN= 21.36      IEQ= 3 NODE      2 DOF      1 Y-DISPL.F
            MIN UN=-.5779      IEQ= 159 NODE     80 DOF      1 Y-DISPL.F
            NO. OF CONTACT CONSTRAINT VIOLATIONS      0

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ITER      4  RNORM = 0.000      RMNORM= 0.000
            RINORM=0.6092E+06  RIMNOR=0.8227E+07
            RENORM= 2.925      REMNOR=0.3190E-17  RATIO =0.2191E-02  TOLER =0.1000E-03  NOT CONVERGED
            RFMAX = 111.2      RMMAX = 383.0
            RTSMAL=0.1000E-02  RMSMAL=0.1000E-02
            RDT =0.6092E+06    RDR =0.8227E+07
            RATIOI=0.2191E-02  RATIOOR= 0.000
            MAX UN= 1.185      IEQ= 67 NODE      34 DOF      1 Y-DISPL.F
            MIN UN=-.8780      IEQ= 147 NODE     74 DOF      1 Y-DISPL.F
            NO. OF CONTACT CONSTRAINT VIOLATIONS      0

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ITER      5  RNORM = 0.000      RMNORM= 0.000
            RINORM=0.6092E+06  RIMNOR=0.8227E+07
            RENORM=0.7400E-02  REMNOR=0.2724E-17  RATIO =0.1102E-03  TOLER =0.1000E-03  NOT CONVERGED
            RFMAX = 111.2      RMMAX = 383.0
            RTSMAL=0.1000E-02  RMSMAL=0.1000E-02
            RDT =0.6092E+06    RDR =0.8227E+07
            RATIOI=0.1102E-03  RATIOOR= 0.000
            MAX UN=0.6220E-01  IEQ= 127 NODE     64 DOF      1 Y-DISPL.F
            MIN UN=-.9613E-08  IEQ= 3 NODE      2 DOF      1 Y-DISPL.F
            NO. OF CONTACT CONSTRAINT VIOLATIONS      0

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ITER      6  RNORM = 0.000      RMNORM= 0.000
            RINORM=0.6092E+06  RIMNOR=0.8227E+07
            RENORM=0.5120E-04  REMNOR=0.3272E-17  RATIO =0.9167E-05  TOLER =0.1000E-03  CONVERGED !
            RFMAX = 111.2      RMMAX = 383.0
            RTSMAL=0.1000E-02  RMSMAL=0.1000E-02
            RDT =0.6092E+06    RDR =0.8227E+07
            RATIOI=0.9167E-05  RATIOOR= 0.000
            MAX UN=0.9793E-08  IEQ= 45 NODE      23 DOF      1 Y-DISPL.F
            MIN UN=-.2648E-02  IEQ= 139 NODE     70 DOF      1 Y-DISPL.F
            NO. OF CONTACT CONSTRAINT VIOLATIONS      0

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|                PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
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New Project
SOLUTION REACHED USING      6 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   6   ( AT TIME   6.000   )

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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	3.0075695E-02	-3.1648037E-03	
2	2.9442734E-02	-3.1648037E-03	
3	2.8809774E-02	-3.1647973E-03	
4	2.8176817E-02	-3.1647652E-03	
5	2.7543871E-02	-3.1646752E-03	
6	2.6910953E-02	-3.1644820E-03	
7	2.6278089E-02	-3.1641275E-03	
8	2.5645318E-02	-3.1635404E-03	
9	2.5012694E-02	-3.1626362E-03	
10	2.4380291E-02	-3.1613173E-03	
11	2.3748202E-02	-3.1594730E-03	
12	2.3116545E-02	-3.1569795E-03	
13	2.2485463E-02	-3.1537000E-03	
14	2.1855128E-02	-3.1494845E-03	
15	2.1225742E-02	-3.1441702E-03	
16	2.0597545E-02	-3.1375813E-03	
17	1.9970804E-02	-3.1295289E-03	
18	1.9345841E-02	-3.1198113E-03	
19	1.8723005E-02	-3.1082139E-03	
20	1.8102696E-02	-3.0945090E-03	
21	1.7485361E-02	-3.0784563E-03	
22	1.6871490E-02	-3.0598021E-03	
23	1.6261631E-02	-3.0382804E-03	
24	1.5656387E-02	-3.0136120E-03	
25	1.5056415E-02	-2.9855242E-03	
26	1.4462421E-02	-2.9537894E-03	
27	1.3875156E-02	-2.9182450E-03	
28	1.3295386E-02	-2.8787921E-03	
29	1.2723902E-02	-2.8353972E-03	
30	1.2161488E-02	-2.7880909E-03	
31	1.1608920E-02	-2.7369685E-03	
32	1.1066947E-02	-2.6821902E-03	
33	1.0536275E-02	-2.6239799E-03	
34	1.0017565E-02	-2.5626268E-03	
35	9.5114104E-03	-2.4984846E-03	
36	9.0183307E-03	-2.4319463E-03	
37	8.5387681E-03	-2.3634014E-03	
38	8.0730819E-03	-2.2932170E-03	
39	7.6215674E-03	-2.2217402E-03	
40	7.1844501E-03	-2.1492981E-03	
41	6.7618920E-03	-2.0761988E-03	
42	6.3539951E-03	-2.0027322E-03	
43	5.9608054E-03	-1.9291713E-03	
44	5.5823158E-03	-1.855726E-03	
45	5.2184712E-03	-1.7827778E-03	
46	4.8691645E-03	-1.7104130E-03	
47	4.5342498E-03	-1.6388917E-03	
48	4.2135381E-03	-1.5684146E-03	
49	3.9068017E-03	-1.4991704E-03	
50	3.6137774E-03	-1.4313371E-03	
51	3.3341632E-03	-1.3650817E-03	
52	3.0676225E-03	-1.3005611E-03	
53	2.8138185E-03	-1.2379315E-03	
54	2.5723277E-03	-1.1773267E-03	
55	2.3427437E-03	-1.1188847E-03	
56	2.1246210E-03	-1.0627340E-03	
57	1.9174891E-03	-1.0089973E-03	
58	1.7208534E-03	-9.5779218E-04	
59	1.5341959E-03	-9.0923199E-04	
60	1.3569769E-03	-8.6342611E-04	
61	1.1886348E-03	-8.2048062E-04	
62	1.0285871E-03	-7.8049874E-04	
63	8.7623421E-04	-7.4353333E-04	
64	7.3097249E-04	-7.0958722E-04	
65	5.9219799E-04	-6.7866115E-04	
66	4.5930764E-04	-6.5074104E-04	
67	3.3170408E-04	-6.2578340E-04	
68	2.0880169E-04	-6.0371448E-04	
69	9.0032444E-05	-5.8443316E-04	
70	-2.5149062E-05	-5.6781424E-04	
71	-1.3726103E-04	-5.5371205E-04	
72	-2.4679087E-04	-5.4196473E-04	
73	-3.5419218E-04	-5.3239623E-04	

74	-4.5988196E-04	-5.2481672E-04
75	-5.6423792E-04	-5.1902297E-04
76	-6.6759578E-04	-5.1479858E-04
77	-7.7024668E-04	-5.1191417E-04
78	-8.7243463E-04	-5.1012760E-04
79	-9.7435391E-04	-5.0918384E-04
80	-1.0761465E-03	-5.0881488E-04
81	-1.1779045E-03	-5.0873979E-04

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|                PARATIEPLUS(TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION *Build date:Jul 11, 2017*                |
|                                                                                                                                            |
|                                                                                                                                            |
|                NewProject.BaseDesignSection_28.Nominal_63                                                                              |
|                Exe Time :24 May 2018      18:25:47                                                                              |
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New Project

STRESS RESULTS FOR GROUP NO. 1

0\_L  
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 81  
CURRENT TIME IS 6.0000

HARDENING 2D SOIL ELEMENT

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

EL * FACTOR	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
1 D	0.000	-3.0076E-02	0.000	0.000	0.000	0.000	ACTIVE	0.000	0.000	0.000	
1.000	1.000	0.000	0.000	0.000	Ug5_2_8_L_0						
2 D	0.4508	-2.9443E-02	2.335	0.5815	2.335	1.603	ACTIVE	0.000	-0.2000	1.673	
1.000	1.000	2.254	0.000	0.000	Ug5_2_8_L_0						
3 D	0.9037	-2.8810E-02	4.711	1.173	4.711	3.119	ACTIVE	0.000	-0.4000	3.345	
1.000	1.000	4.519	0.000	0.000	Ug5_2_8_L_0						
4 D	1.359	-2.8177E-02	7.140	1.778	7.140	4.509	ACTIVE	0.000	-0.6000	5.018	
1.000	1.000	6.796	0.000	0.000	Ug5_2_8_L_0						
5 D	1.817	-2.7544E-02	9.606	2.392	9.606	5.780	ACTIVE	0.000	-0.8000	6.691	
1.000	1.000	9.083	0.000	0.000	Ug5_2_8_L_0						
6 D	2.275	-2.6911E-02	12.09	3.010	12.09	6.958	ACTIVE	0.000	-1.000	8.364	
1.000	1.000	11.37	0.000	0.000	Ug5_2_8_L_0						
7 D	2.733	-2.6278E-02	14.57	3.629	14.57	8.073	ACTIVE	0.000	-1.200	10.04	
1.000	1.000	13.67	0.000	0.000	Ug5_2_8_L_0						
8 D	3.197	-2.5645E-02	17.17	4.274	17.17	9.145	ACTIVE	0.000	-1.400	11.71	
1.000	1.000	15.98	0.000	0.000	Ug5_2_8_L_0						
9 D	3.662	-2.5013E-02	19.79	4.929	19.79	10.19	ACTIVE	0.000	-1.600	13.38	
1.000	1.000	18.31	0.000	0.000	Ug5_2_8_L_0						
10 D	4.117	-2.4380E-02	22.21	5.530	22.21	11.22	ACTIVE	0.000	-1.800	15.05	
1.000	1.000	20.58	0.000	0.000	Ug5_2_8_L_0						
11 D	4.578	-2.3748E-02	24.76	6.165	24.76	12.23	ACTIVE	0.000	-2.000	16.73	
1.000	1.000	22.89	0.000	0.000	Ug5_2_8_L_0						
12 D	5.038	-2.3117E-02	27.27	6.790	27.27	13.24	ACTIVE	0.000	-2.200	18.40	
1.000	1.000	25.19	0.000	0.000	Ug5_2_8_L_0						
13 D	5.490	-2.2485E-02	29.64	7.380	29.64	14.24	ACTIVE	0.000	-2.400	20.07	
1.000	1.000	27.45	0.000	0.000	Ug5_2_8_L_0						
14 D	5.948	-2.1855E-02	32.11	7.996	32.11	15.24	ACTIVE	0.000	-2.600	21.75	
1.000	1.000	29.74	0.000	0.000	Ug5_2_8_L_0						
15 D	6.405	-2.1226E-02	34.57	8.607	34.57	16.23	ACTIVE	0.000	-2.800	23.42	
1.000	1.000	32.03	0.000	0.000	Ug5_2_8_L_0						
16 D	6.861	-2.0598E-02	37.01	9.215	37.01	17.23	ACTIVE	0.000	-3.000	25.09	
1.000	1.000	34.31	0.000	0.000	Ug5_2_8_L_0						
17 D	7.312	-1.9971E-02	39.34	9.797	39.34	18.22	ACTIVE	0.000	-3.200	26.76	
1.000	1.000	36.56	0.000	0.000	Ug5_2_8_L_0						
18 D	7.767	-1.9346E-02	41.77	10.40	41.77	19.21	ACTIVE	0.000	-3.400	28.44	
1.000	1.000	38.84	0.000	0.000	Ug5_2_8_L_0						
19 D	8.222	-1.8723E-02	44.18	11.00	44.18	20.21	ACTIVE	0.000	-3.600	30.11	
1.000	1.000	41.11	0.000	0.000	Ug5_2_8_L_0						
20 D	8.672	-1.8103E-02	46.51	11.58	46.51	21.20	ACTIVE	0.000	-3.800	31.78	
1.000	1.000	43.36	0.000	0.000	Ug5_2_8_L_0						
21 D	9.127	-1.7485E-02	48.91	12.18	48.91	22.19	ACTIVE	0.000	-4.000	33.45	
1.000	1.000	45.63	0.000	0.000	Ug5_2_8_L_0						
22 D	9.580	-1.6871E-02	51.30	12.77	51.30	23.18	ACTIVE	0.000	-4.200	35.13	
1.000	1.000	47.90	0.000	0.000	Ug5_2_8_L_0						
23 D	10.03	-1.6262E-02	53.63	13.35	53.63	24.18	ACTIVE	0.000	-4.400	36.80	
1.000	1.000	50.15	0.000	0.000	Ug5_2_8_L_0						
24 D	10.48	-1.5656E-02	56.01	13.95	56.01	25.17	ACTIVE	0.000	-4.600	38.47	
1.000	1.000	52.42	0.000	0.000	Ug5_2_8_L_0						
25 D	10.94	-1.5056E-02	58.39	14.54	58.39	26.17	ACTIVE	0.000	-4.800	40.15	
1.000	1.000	54.69	0.000	0.000	Ug5_2_8_L_0						
26 D	11.39	-1.4462E-02	60.77	15.13	60.77	27.16	ACTIVE	0.000	-5.000	41.82	
1.000	1.000	56.95	0.000	0.000	Ug5_2_8_L_0						
27 D	11.84	-1.3875E-02	63.09	15.71	63.09	28.16	ACTIVE	0.000	-5.200	43.49	
1.000	1.000	59.20	0.000	0.000	Ug5_2_8_L_0						
28 D	12.29	-1.3295E-02	65.46	16.30	65.46	29.16	ACTIVE	0.000	-5.400	45.16	
1.000	1.000	61.46	0.000	0.000	Ug5_2_8_L_0						
29 D	12.75	-1.2724E-02	67.83	16.89	67.83	30.15	ACTIVE	0.000	-5.600	46.84	
1.000	1.000	63.73	0.000	0.000	Ug5_2_8_L_0						
30 D	13.20	-1.2161E-02	70.15	17.47	70.15	31.15	ACTIVE	0.000	-5.800	48.51	
1.000	1.000	65.98	0.000	0.000	Ug5_2_8_L_0						
31 D	13.65	-1.1609E-02	72.52	18.06	72.52	32.15	ACTIVE	0.000	-6.000	50.18	
1.000	1.000	68.24	0.000	0.000	Ug5_2_8_L_0						
32 D	14.10	-1.1067E-02	74.88	18.65	74.88	33.15	ACTIVE	0.000	-6.200	51.85	
1.000	1.000	70.50	0.000	0.000	Ug5_2_8_L_0						
33 D	14.55	-1.0536E-02	77.20	19.22	77.20	34.15	ACTIVE	0.000	-6.400	53.53	



1.000	1.000	72.75	0.000	0.000	Ug5_2_8_L_0						
34 D	15.00	-1.0018E-02	79.56	19.81	79.56	35.15	ACTIVE	0.000	-6.600	55.20	
1.000	1.000	75.01	0.000	0.000	Ug5_2_8_L_0						
35 D	15.45	-9.5114E-03	81.92	20.40	81.92	36.15	ACTIVE	0.000	-6.800	56.87	
1.000	1.000	77.27	0.000	0.000	Ug5_2_8_L_0						
36 D	15.91	-9.0183E-03	84.28	20.98	84.28	37.16	ACTIVE	0.000	-7.000	58.55	
1.000	1.000	79.53	0.000	0.000	Ug5_2_8_L_0						
37 D	16.36	-8.5388E-03	86.59	21.56	86.59	38.16	ACTIVE	0.000	-7.200	60.22	
1.000	1.000	81.78	0.000	0.000	Ug5_2_8_L_0						
38 D	16.81	-8.0731E-03	88.95	22.15	88.95	39.16	ACTIVE	0.000	-7.400	61.89	
1.000	1.000	84.04	0.000	0.000	Ug5_2_8_L_0						
39 D	17.26	-7.6216E-03	91.30	22.73	91.30	40.17	ACTIVE	0.000	-7.600	63.56	
1.000	1.000	86.30	0.000	0.000	Ug5_2_8_L_0						
40 D	17.71	-7.1845E-03	93.62	23.31	93.62	41.17	ACTIVE	0.000	-7.800	65.24	
1.000	1.000	88.55	0.000	0.000	Ug5_2_8_L_0						
41 D	18.16	-6.7619E-03	95.97	23.90	95.97	42.18	ACTIVE	0.000	-8.000	66.91	
1.000	1.000	90.81	0.000	0.000	Ug5_2_8_L_0						
42 D	18.61	-6.3540E-03	98.32	24.48	98.32	43.19	ACTIVE	0.000	-8.200	68.58	
1.000	1.000	93.06	0.000	0.000	Ug5_2_8_L_0						
43 D	19.06	-5.9608E-03	100.6	25.06	100.6	44.19	ACTIVE	0.000	-8.400	70.25	
1.000	1.000	95.31	0.000	0.000	Ug5_2_8_L_0						
44 D	19.51	-5.5823E-03	103.0	25.64	103.0	45.20	ACTIVE	0.000	-8.600	71.93	
1.000	1.000	97.57	0.000	0.000	Ug5_2_8_L_0						
45 D	19.97	-5.2185E-03	105.3	26.23	105.3	46.21	ACTIVE	0.000	-8.800	73.60	
1.000	1.000	99.83	0.000	0.000	Ug5_2_8_L_0						
46 D	20.42	-4.8692E-03	107.7	26.81	107.7	47.22	ACTIVE	0.000	-9.000	75.27	
1.000	1.000	102.1	0.000	0.000	Ug5_2_8_L_0						
47 D	20.87	-4.5342E-03	110.0	27.39	110.0	48.23	ACTIVE	0.000	-9.200	76.95	
1.000	1.000	104.3	0.000	0.000	Ug5_2_8_L_0						
48 D	21.32	-4.2135E-03	112.3	27.97	112.3	49.24	ACTIVE	0.000	-9.400	78.62	
1.000	1.000	106.6	0.000	0.000	Ug5_2_8_L_0						
49 D	21.77	-3.9068E-03	114.7	28.56	114.7	50.26	ACTIVE	0.000	-9.600	80.29	
1.000	1.000	108.8	0.000	0.000	Ug5_2_8_L_0						
50 D	22.22	-3.6138E-03	117.0	29.13	117.0	51.27	ACTIVE	0.000	-9.800	81.96	
1.000	1.000	111.1	0.000	0.000	Ug5_2_8_L_0						
51 D	22.67	-3.3342E-03	119.4	29.72	119.4	52.28	ACTIVE	0.000	-10.000	83.64	
1.000	1.000	113.4	0.000	0.000	Ug5_2_8_L_0						
52 D	23.12	-3.0676E-03	121.7	30.30	121.7	53.29	ACTIVE	0.000	-10.200	85.31	
1.000	1.000	115.6	0.000	0.000	Ug5_2_8_L_0						
53 D	23.57	-2.8138E-03	124.0	30.88	124.0	54.31	ACTIVE	0.000	-10.400	86.98	
1.000	1.000	117.9	0.000	0.000	Ug5_2_8_L_0						
54 D	24.02	-2.5723E-03	126.4	31.46	126.4	55.32	ACTIVE	0.000	-10.600	88.65	
1.000	1.000	120.1	0.000	0.000	Ug5_2_8_L_0						
55 D	24.47	-2.3427E-03	128.7	32.05	128.7	56.34	ACTIVE	0.000	-10.800	90.33	
1.000	1.000	122.4	0.000	0.000	Ug5_2_8_L_0						
56 D	24.93	-2.1246E-03	131.0	32.63	131.0	57.35	ACTIVE	0.000	-11.000	92.00	
1.000	1.000	124.6	0.000	0.000	Ug5_2_8_L_0						
57 D	25.38	-1.9175E-03	133.4	33.21	133.4	58.37	ACTIVE	0.000	-11.200	93.67	
1.000	1.000	126.9	0.000	0.000	Ug5_2_8_L_0						
58 D	25.83	-1.7209E-03	135.7	33.79	135.7	59.39	ACTIVE	0.000	-11.400	95.35	
1.000	1.000	129.1	0.000	0.000	Ug5_2_8_L_0						
59 D	26.28	-1.5342E-03	138.0	34.37	138.0	60.40	ACTIVE	0.000	-11.600	97.02	
1.000	1.000	131.4	0.000	0.000	Ug5_2_8_L_0						
60 D	26.73	-1.3570E-03	140.4	34.95	140.4	61.42	ACTIVE	0.000	-11.800	98.69	
1.000	1.000	133.6	0.000	0.000	Ug5_2_8_L_0						
61 D	27.19	-1.1886E-03	142.7	35.57	142.7	62.44	UL-RL	5.0142E+04	-12.000	100.4	
1.000	1.000	135.9	0.000	0.000	Ug5_2_8_L_0						
62 D	30.47	-1.0286E-03	144.8	50.32	144.8	63.42	UL-RL	2.4005E+04	-12.200	102.0	
1.000	1.000	152.4	0.000	0.000	Ug6_741_743_L_0						
63 D	30.98	-8.7623E-04	147.0	51.20	147.0	64.53	UL-RL	2.4005E+04	-12.400	103.7	
1.000	1.000	154.9	0.000	0.000	Ug6_741_743_L_0						
64 D	31.49	-7.3097E-04	149.1	52.08	149.1	65.58	UL-RL	2.4005E+04	-12.600	105.4	
1.000	1.000	157.5	0.000	0.000	Ug6_741_743_L_0						
65 D	32.62	-5.9220E-04	151.2	56.04	151.2	66.59	UL-RL	2.4005E+04	-12.800	107.1	
1.000	1.000	163.1	0.000	0.000	Ug6_741_743_L_0						
66 D	33.82	-4.5931E-04	153.3	60.39	153.3	67.57	UL-RL	2.4005E+04	-13.000	108.7	
1.000	1.000	169.1	0.000	0.000	Ug6_741_743_L_0						
67 D	35.00	-3.3170E-04	155.4	64.59	155.4	68.78	UL-RL	2.4005E+04	-13.200	110.4	
1.000	1.000	175.0	0.000	0.000	Ug6_741_743_L_0						
68 D	36.04	-2.0880E-04	157.5	68.11	157.5	70.56	UL-RL	2.4005E+04	-13.400	112.1	
1.000	1.000	180.2	0.000	0.000	Ug6_741_743_L_0						
69 D	37.02	-9.0032E-05	159.6	71.36	159.6	72.13	UL-RL	2.4005E+04	-13.600	113.7	
1.000	1.000	185.1	0.000	0.000	Ug6_741_743_L_0						
70 D	37.84	2.5149E-05	161.7	73.76	161.7	73.78	UL-RL	2.4005E+04	-13.800	115.4	
1.000	1.000	189.2	0.000	0.000	Ug6_741_743_L_0						
71 D	38.55	1.3726E-04	163.8	75.64	163.8	75.65	UL-RL	2.4005E+04	-14.000	117.1	
1.000	1.000	192.7	0.000	0.000	Ug6_741_743_L_0						
72 D	39.25	2.4679E-04	165.9	77.48	165.9	77.50	UL-RL	2.4005E+04	-14.200	118.8	
1.000	1.000	196.2	0.000	0.000	Ug6_741_743_L_0						
73 D	39.95	3.5419E-04	168.0	79.30	168.0	79.31	UL-RL	2.4005E+04	-14.400	120.4	
1.000	1.000	199.7	0.000	0.000	Ug6_741_743_L_0						
74 D	40.64	4.5988E-04	170.1	81.10	170.1	81.11	UL-RL	2.4005E+04	-14.600	122.1	
1.000	1.000	203.2	0.000	0.000	Ug6_741_743_L_0						
75 D	41.33	5.6424E-04	172.2	82.88	172.2	82.90	UL-RL	2.4005E+04	-14.800	123.8	
1.000	1.000	206.7	0.000	0.000	Ug6_741_743_L_0						
76 D	42.02	6.6760E-04	174.3	84.66	174.3	84.67	UL-RL	2.4005E+04	-15.000	125.5	
1.000	1.000	210.1	0.000	0.000	Ug6_741_743_L_0						
77 D	42.71	7.7025E-04	176.4	86.43	176.4	86.44	UL-RL	2.4005E+04	-15.200	127.1	
1.000	1.000	213.6	0.000	0.000	Ug6_741_743_L_0						
78 D	43.41	8.7243E-04	178.5	88.25	178.5	88.26	UL-RL	2.4005E+04	-15.400	128.8	
1.000	1.000	217.0	0.000	0.000	Ug6_741_743_L_0						

79 D	44.11	9.7435E-04	180.6	90.07	180.6	90.08	UL-RL	2.4005E+04	-15.60	130.5
1.000	1.000	220.5	0.000	0.000	Ug6_741_743_L_0					
80 D	44.81	1.0761E-03	182.7	91.88	182.7	91.90	UL-RL	2.4005E+04	-15.80	132.1
1.000	1.000	224.0	0.000	0.000	Ug6_741_743_L_0					
81 D	22.75	1.1779E-03	184.8	93.70	184.8	93.71	UL-RL	2.4005E+04	-16.00	133.8
1.000	1.000	227.5	0.000	0.000	Ug6_741_743_L_0					

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*          |
|                                                                                                                                            |
|                                                                                                                                            |
|                                                                                                                                            |
|          NewProject.BaseDesignSection_28.Nominal_63                                                                                       |
|          Exe Time :24 May 2018          18:25:47                                                                                           |
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New Project

STRESS RESULTS FOR GROUP NO. 2

0\_R :  
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 81  
CURRENT TIME IS 6.0000

HARDENING 2D SOIL ELEMENT

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

EL * FACTOR	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
1	0.000	--	--	--	--	--	REMOVED	--	0.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
2	0.000	--	--	--	--	--	REMOVED	--	-0.2000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
3	0.000	--	--	--	--	--	REMOVED	--	-0.4000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
4	0.000	--	--	--	--	--	REMOVED	--	-0.6000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
5	0.000	--	--	--	--	--	REMOVED	--	-0.8000	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	--	-1.200	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
8	0.000	--	--	--	--	--	REMOVED	--	-1.400	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
9	0.000	--	--	--	--	--	REMOVED	--	-1.600	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
10	0.000	--	--	--	--	--	REMOVED	--	-1.800	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
11	0.000	--	--	--	--	--	REMOVED	--	-2.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
12	0.000	--	--	--	--	--	REMOVED	--	-2.200	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
13	0.000	--	--	--	--	--	REMOVED	--	-2.400	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
14	0.000	--	--	--	--	--	REMOVED	--	-2.600	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
15	0.000	--	--	--	--	--	REMOVED	--	-2.800	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
16	0.000	--	--	--	--	--	REMOVED	--	-3.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
17	0.000	--	--	--	--	--	REMOVED	--	-3.200	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
18	0.000	--	--	--	--	--	REMOVED	--	-3.400	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
19	0.000	--	--	--	--	--	REMOVED	--	-3.600	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
20	0.000	--	--	--	--	--	REMOVED	--	-3.800	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
21	0.000	--	--	--	--	--	REMOVED	--	-4.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
22	0.000	--	--	--	--	--	REMOVED	--	-4.200	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
23	0.000	--	--	--	--	--	REMOVED	--	-4.400	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
24 D	1.360	1.5656E-02	0.8364	5.635	46.00	63.03	PASSIVE	0.000	-4.600	1.164	
1.000	1.000	6.799	0.000	0.000	Ug5_2_8_L_0						
25 D	4.079	1.5056E-02	2.509	16.91	48.00	61.64	PASSIVE	0.000	-4.800	3.491	
1.000	1.000	20.40	0.000	0.000	Ug5_2_8_L_0						
26 D	6.799	1.4462E-02	4.182	28.18	50.00	60.31	PASSIVE	0.000	-5.000	5.818	
1.000	1.000	34.00	0.000	0.000	Ug5_2_8_L_0						
27 D	9.519	1.3875E-02	5.855	39.45	52.00	69.31	PASSIVE	0.000	-5.200	8.145	
1.000	1.000	47.59	0.000	0.000	Ug5_2_8_L_0						
28 D	12.24	1.3295E-02	7.527	50.72	54.00	80.86	PASSIVE	0.000	-5.400	10.47	
1.000	1.000	61.19	0.000	0.000	Ug5_2_8_L_0						
29 D	14.96	1.2724E-02	9.200	61.99	56.00	92.41	PASSIVE	0.000	-5.600	12.80	
1.000	1.000	74.79	0.000	0.000	Ug5_2_8_L_0						
30 D	17.68	1.2161E-02	10.87	73.26	58.00	101.5	PASSIVE	0.000	-5.800	15.13	
1.000	1.000	88.39	0.000	0.000	Ug5_2_8_L_0						
31 D	20.40	1.1609E-02	12.55	84.53	60.00	98.41	PASSIVE	0.000	-6.000	17.45	
1.000	1.000	102.0	0.000	0.000	Ug5_2_8_L_0						
32 D	23.12	1.1067E-02	14.22	95.80	62.00	95.80	PASSIVE	0.000	-6.200	19.78	
1.000	1.000	115.6	0.000	0.000	Ug5_2_8_L_0						
33 D	25.84	1.0536E-02	15.89	107.1	64.00	107.1	PASSIVE	0.000	-6.400	22.11	

1.000	1.000	129.2	0.000	0.000	Ug5_2_8_L_0					
34 D	28.56	1.0018E-02	17.56	118.3	66.00	118.3	PASSIVE	0.000	-6.600	24.44
1.000	1.000	142.8	0.000	0.000	Ug5_2_8_L_0					
35 D	29.51	9.5114E-03	19.24	120.8	68.00	120.8	V-C	8310.	-6.800	26.76
1.000	1.000	147.6	0.000	0.000	Ug5_2_8_L_0					
36 D	29.19	9.0183E-03	20.91	116.9	70.00	116.9	V-C	8310.	-7.000	29.09
1.000	1.000	146.0	0.000	0.000	Ug5_2_8_L_0					
37 D	28.90	8.5388E-03	22.58	113.1	72.00	113.1	V-C	8310.	-7.200	31.42
1.000	1.000	144.5	0.000	0.000	Ug5_2_8_L_0					
38 D	28.64	8.0731E-03	24.25	109.4	74.00	109.4	V-C	8310.	-7.400	33.75
1.000	1.000	143.2	0.000	0.000	Ug5_2_8_L_0					
39 D	28.41	7.6216E-03	25.93	106.0	76.00	106.0	V-C	8310.	-7.600	36.07
1.000	1.000	142.0	0.000	0.000	Ug5_2_8_L_0					
40 D	28.21	7.1845E-03	27.60	102.6	78.00	102.6	V-C	8310.	-7.800	38.40
1.000	1.000	141.0	0.000	0.000	Ug5_2_8_L_0					
41 D	28.04	6.7619E-03	29.27	99.47	80.00	99.47	V-C	8310.	-8.000	40.73
1.000	1.000	140.2	0.000	0.000	Ug5_2_8_L_0					
42 D	27.90	6.3540E-03	30.95	96.46	82.00	96.46	V-C	8310.	-8.200	43.05
1.000	1.000	139.5	0.000	0.000	Ug5_2_8_L_0					
43 D	27.80	5.9608E-03	32.62	93.62	84.00	93.62	V-C	8310.	-8.400	45.38
1.000	1.000	139.0	0.000	0.000	Ug5_2_8_L_0					
44 D	27.73	5.5823E-03	34.29	90.93	86.00	90.93	V-C	8310.	-8.600	47.71
1.000	1.000	138.6	0.000	0.000	Ug5_2_8_L_0					
45 D	27.69	5.2185E-03	35.96	88.40	88.00	88.40	V-C	8310.	-8.800	50.04
1.000	1.000	138.4	0.000	0.000	Ug5_2_8_L_0					
46 D	27.68	4.8692E-03	37.64	86.02	90.00	86.02	V-C	8310.	-9.000	52.36
1.000	1.000	138.4	0.000	0.000	Ug5_2_8_L_0					
47 D	27.70	4.5342E-03	39.31	83.79	92.00	83.79	V-C	8310.	-9.200	54.69
1.000	1.000	138.5	0.000	0.000	Ug5_2_8_L_0					
48 D	27.75	4.2135E-03	40.98	81.72	94.00	81.72	V-C	8310.	-9.400	57.02
1.000	1.000	138.7	0.000	0.000	Ug5_2_8_L_0					
49 D	27.83	3.9068E-03	42.65	79.79	96.00	79.79	V-C	8310.	-9.600	59.35
1.000	1.000	139.1	0.000	0.000	Ug5_2_8_L_0					
50 D	27.94	3.6138E-03	44.33	78.01	98.00	78.01	V-C	8310.	-9.800	61.67
1.000	1.000	139.7	0.000	0.000	Ug5_2_8_L_0					
51 D	28.07	3.3342E-03	46.00	76.36	100.00	76.36	V-C	8310.	-10.000	64.00
1.000	1.000	140.4	0.000	0.000	Ug5_2_8_L_0					
52 D	28.24	3.0676E-03	47.67	74.85	102.0	74.85	V-C	8310.	-10.200	66.33
1.000	1.000	141.2	0.000	0.000	Ug5_2_8_L_0					
53 D	28.43	2.8138E-03	49.35	73.47	104.0	73.47	V-C	8310.	-10.400	68.65
1.000	1.000	142.1	0.000	0.000	Ug5_2_8_L_0					
54 D	28.64	2.5723E-03	51.02	72.22	106.0	72.22	V-C	8310.	-10.600	70.98
1.000	1.000	143.2	0.000	0.000	Ug5_2_8_L_0					
55 D	28.88	2.3427E-03	52.69	71.09	108.0	71.09	V-C	8310.	-10.800	73.31
1.000	1.000	144.4	0.000	0.000	Ug5_2_8_L_0					
56 D	29.14	2.1246E-03	54.36	70.07	110.0	70.07	V-C	8310.	-11.000	75.64
1.000	1.000	145.7	0.000	0.000	Ug5_2_8_L_0					
57 D	29.43	1.9175E-03	56.04	69.17	112.0	69.17	V-C	8310.	-11.200	77.96
1.000	1.000	147.1	0.000	0.000	Ug5_2_8_L_0					
58 D	29.73	1.7209E-03	57.71	68.37	114.0	68.37	V-C	8310.	-11.400	80.29
1.000	1.000	148.7	0.000	0.000	Ug5_2_8_L_0					
59 D	30.06	1.5342E-03	59.38	67.67	116.0	67.67	V-C	8310.	-11.600	82.62
1.000	1.000	150.3	0.000	0.000	Ug5_2_8_L_0					
60 D	30.40	1.3570E-03	61.05	67.07	118.0	67.07	V-C	8310.	-11.800	84.95
1.000	1.000	152.0	0.000	0.000	Ug5_2_8_L_0					
61 D	30.76	1.1886E-03	62.73	66.54	120.0	66.55	UL-RL	2.4929E+04	-12.000	87.27
1.000	1.000	153.8	0.000	0.000	Ug5_2_8_L_0					
62 D	30.61	1.0286E-03	64.20	63.45	121.8	63.50	UL-RL	1.8746E+04	-12.200	89.60
1.000	1.000	153.0	0.000	0.000	Ug6_741_743_L_0					
63 D	31.04	8.7623E-04	65.67	63.28	123.6	63.38	UL-RL	1.8746E+04	-12.400	91.93
1.000	1.000	155.2	0.000	0.000	Ug6_741_743_L_0					
64 D	31.49	7.3097E-04	67.15	63.17	125.4	63.32	UL-RL	1.8746E+04	-12.600	94.25
1.000	1.000	157.4	0.000	0.000	Ug6_741_743_L_0					
65 D	31.64	5.9220E-04	68.62	61.60	127.2	64.05	UL-RL	1.8746E+04	-12.800	96.58
1.000	1.000	158.2	0.000	0.000	Ug6_741_743_L_0					
66 D	31.75	4.5931E-04	70.09	59.84	129.0	64.94	UL-RL	1.8746E+04	-13.000	98.91
1.000	1.000	158.8	0.000	0.000	Ug6_741_743_L_0					
67 D	31.89	3.3170E-04	71.56	58.20	130.8	65.83	UL-RL	1.8746E+04	-13.200	101.2
1.000	1.000	159.4	0.000	0.000	Ug6_741_743_L_0					
68 D	32.04	2.0880E-04	73.04	56.66	132.6	66.72	UL-RL	1.8746E+04	-13.400	103.6
1.000	1.000	160.2	0.000	0.000	Ug6_741_743_L_0					
69 D	32.22	9.0032E-05	74.51	55.20	134.4	67.60	UL-RL	1.8746E+04	-13.600	105.9
1.000	1.000	161.1	0.000	0.000	Ug6_741_743_L_0					
70 D	32.41	-2.5149E-05	75.98	53.82	136.2	68.49	UL-RL	1.8746E+04	-13.800	108.2
1.000	1.000	162.0	0.000	0.000	Ug6_741_743_L_0					
71 D	32.61	-1.3726E-04	77.45	52.50	138.0	69.38	UL-RL	1.8746E+04	-14.000	110.5
1.000	1.000	163.0	0.000	0.000	Ug6_741_743_L_0					
72 D	32.82	-2.4679E-04	78.93	51.24	139.8	70.27	UL-RL	1.8746E+04	-14.200	112.9
1.000	1.000	164.1	0.000	0.000	Ug6_741_743_L_0					
73 D	33.04	-3.5419E-04	80.40	50.01	141.6	71.16	UL-RL	1.8746E+04	-14.400	115.2
1.000	1.000	165.2	0.000	0.000	Ug6_741_743_L_0					
74 D	33.27	-4.5988E-04	81.87	48.83	143.4	72.05	UL-RL	1.8746E+04	-14.600	117.5
1.000	1.000	166.4	0.000	0.000	Ug6_741_743_L_0					
75 D	33.50	-5.6424E-04	83.35	47.67	145.2	72.94	UL-RL	1.8746E+04	-14.800	119.9
1.000	1.000	167.5	0.000	0.000	Ug6_741_743_L_0					
76 D	33.74	-6.6760E-04	84.82	46.53	147.0	73.84	UL-RL	1.8746E+04	-15.000	122.2
1.000	1.000	168.7	0.000	0.000	Ug6_741_743_L_0					
77 D	33.98	-7.7025E-04	86.29	45.40	148.8	74.73	UL-RL	1.8746E+04	-15.200	124.5
1.000	1.000	169.9	0.000	0.000	Ug6_741_743_L_0					
78 D	34.22	-8.7243E-04	87.76	44.29	150.6	75.62	UL-RL	1.8746E+04	-15.400	126.8
1.000	1.000	171.1	0.000	0.000	Ug6_741_743_L_0					

79 D	34.47	-9.7435E-04	89.24	43.18	152.4	76.51	UL-RL	1.8746E+04	-15.60	129.2
1.000	1.000	172.3	0.000	0.000	Ug6_741_743_L_0					
80 D	34.71	-1.0761E-03	90.71	42.07	154.2	77.40	UL-RL	1.8746E+04	-15.80	131.5
1.000	1.000	173.6	0.000	0.000	Ug6_741_743_L_0					
81 D	17.48	-1.1779E-03	92.18	40.96	156.0	78.29	UL-RL	1.8746E+04	-16.00	133.8
1.000	1.000	174.8	0.000	0.000	Ug6_741_743_L_0					

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|                PARATIEPLUS(TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION *Build date:Jul 11, 2017*  |
|                |
|                NewProject.BaseDesignSection_28.Nominal_63  |
|                Exe Time :24 May 2018 18:25:47  |
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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

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WallElement_33 :
ELEMENT TYPE 2 NO.OF ELEMENTS. IN THIS GROUP 80
CURRENT TIME IS 6.0000

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WALL2D ELEMENT

EL	TA	TB	MA	MB
1	-3.99537E-11	3.99537E-11	-1.50990E-12	6.74817E-10
2	0.45085	-0.45085	-5.10296E-10	9.01693E-02
3	1.3546	-1.3546	-9.01693E-02	0.36108
4	2.7138	-2.7138	-0.36108	0.90383
5	4.5303	-4.5303	-0.90383	1.8099
6	6.8051	-6.8051	-1.8099	3.1709
7	9.5382	-9.5382	-3.1709	5.0786
8	12.735	-12.735	-5.0786	7.6255
9	16.397	-16.397	-7.6255	10.905
10	20.514	-20.514	-10.905	15.008
11	25.092	-25.092	-15.008	20.026
12	30.130	-30.130	-20.026	26.052
13	35.621	-35.621	-26.052	33.176
14	41.569	-41.569	-33.176	41.490
15	47.974	-47.974	-41.490	51.085
16	54.835	-54.835	-51.085	62.052
17	62.147	-62.147	-62.052	74.482
18	69.914	-69.914	-74.482	88.464
19	78.136	-78.136	-88.464	104.09
20	86.809	-86.809	-104.09	121.45
21	95.935	-95.935	-121.45	140.64
22	105.52	-105.52	-140.64	161.74
23	115.55	-115.55	-161.74	184.85
24	124.67	-124.67	-184.85	209.79
25	131.53	-131.53	-209.79	236.09
26	136.12	-136.12	-236.09	263.32
27	138.44	-138.44	-263.32	291.00
28	138.49	-138.49	-291.00	318.70
29	136.28	-136.28	-318.70	345.96
30	131.80	-131.80	-345.96	372.32
31	125.05	-125.05	-372.32	397.33
32	116.03	-116.03	-397.33	420.54
33	104.75	-104.75	-420.54	441.49
34	91.194	-91.194	-441.49	459.72
35	77.134	-77.134	-459.72	475.15
36	63.850	-63.850	-475.15	487.92
37	51.308	-51.308	-487.92	498.18
38	39.480	-39.480	-498.18	506.08
39	28.334	-28.334	-506.08	511.75
40	17.838	-17.838	-511.75	515.31
41	7.9601	-7.9601	-515.31	516.91
42	-1.3304	1.3304	-516.91	516.64
43	-10.067	10.067	-516.64	514.63
44	-18.280	18.280	-514.63	510.97
45	-26.001	26.001	-510.97	505.77
46	-33.261	33.261	-505.77	499.12
47	-40.091	40.091	-499.12	491.10
48	-46.520	46.520	-491.10	481.80
49	-52.578	52.578	-481.80	471.28
50	-58.294	58.294	-471.28	459.62
51	-63.695	63.695	-459.62	446.88
52	-68.809	68.809	-446.88	433.12
53	-73.662	73.662	-433.12	418.39
54	-78.279	78.279	-418.39	402.73
55	-82.684	82.684	-402.73	386.20
56	-86.900	86.900	-386.20	368.82
57	-90.951	90.951	-368.82	350.63
58	-94.856	94.856	-350.63	331.65
59	-98.636	98.636	-331.65	311.93
60	-102.31	102.31	-311.93	291.46
61	-105.89	105.89	-291.46	270.29
62	-106.02	106.02	-270.29	249.08
63	-106.08	106.08	-249.08	227.87
64	-106.08	106.08	-227.87	206.65
65	-105.09	105.09	-206.65	185.63
66	-103.02	103.02	-185.63	165.03
67	-99.912	99.912	-165.03	145.05
68	-95.920	95.920	-145.05	125.86
69	-91.117	91.117	-125.86	107.64

70	-85.685	85.685	-107.64	90.501
71	-79.747	79.747	-90.501	74.551
72	-73.318	73.318	-74.551	59.888
73	-66.412	66.412	-59.888	46.606
74	-59.039	59.039	-46.606	34.798
75	-51.209	51.209	-34.798	24.556
76	-42.927	42.927	-24.556	15.971
77	-34.197	34.197	-15.971	9.1311
78	-25.011	25.011	-9.1311	4.1290
79	-15.370	15.370	-4.1290	1.0550
80	-5.2747	5.2747	-1.0550	-2.45971E-11

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ITER      0  RNORM = 0.000      RMNORM= 0.000
           RINORM=0.1026E+07  RIMNOR=0.1448E+08
           RENORM= 1.337      REMNOR=0.3272E-17  RATIO =0.1142E-02  TOLER =0.1000E-03  NOT CONVERGED
           RFMAX = 138.5      RMMAX = 516.9
           RTSMAL=0.1000E-02  RMSMAL=0.1000E-02
           RDT  =0.1026E+07  RDR  =0.1448E+08
           RATIOI=0.1142E-02  RATIOR= 0.000
           MAX UN=0.5985E-09  IEQ=    8 NODE      4 DOF   2   X-ROT. F
           MIN UN=-.1554     IEQ=   125 NODE     63 DOF   1   Y-DISPL.F
           NO. OF CONTACT CONSTRAINT VIOLATIONS      0

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ITER      2  RNORM = 0.000      RMNORM= 0.000
           RINORM=0.1026E+07  RIMNOR=0.1448E+08
           RENORM=0.6379E-15  REMNOR=0.3314E-17  RATIO =0.2494E-10  TOLER =0.1000E-03  CONVERGED !
           RFMAX = 138.5      RMMAX = 516.9
           RTSMAL=0.1000E-02  RMSMAL=0.1000E-02
           RDT  =0.1026E+07  RDR  =0.1448E+08
           RATIOI=0.2494E-10  RATIOR= 0.000
           MAX UN=0.8051E-08  IEQ=   29 NODE     15 DOF   1   Y-DISPL.F
           MIN UN=-.6871E-08  IEQ=   19 NODE     10 DOF   1   Y-DISPL.F
           NO. OF CONTACT CONSTRAINT VIOLATIONS      0

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
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|                               NewProject.BaseDesignSection_28.Nominal_63                       |
|                               Exe Time :24 May 2018      18:25:47                             |
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New Project  
SOLUTION REACHED USING 2 ITERATIONS ON 40

PRINT OUT FOR TIME STEP 7 ( AT TIME 7.000 )

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

	Y-DISPL.F (02)	X-ROT. F (04)	(
1	3.0072206E-02	-3.1661878E-03	
2	2.9438969E-02	-3.1661878E-03	
3	2.8805732E-02	-3.1661808E-03	
4	2.8172498E-02	-3.1661466E-03	
5	2.7539277E-02	-3.1660518E-03	
6	2.6906085E-02	-3.1658503E-03	
7	2.6272948E-02	-3.1654830E-03	
8	2.5639907E-02	-3.1648780E-03	
9	2.5007018E-02	-3.1639504E-03	
10	2.4374355E-02	-3.1626025E-03	
11	2.3742013E-02	-3.1607235E-03	
12	2.3110110E-02	-3.1581900E-03	
13	2.2478790E-02	-3.1548655E-03	
14	2.1848226E-02	-3.1506006E-03	
15	2.1218623E-02	-3.1452331E-03	
16	2.0590218E-02	-3.1385878E-03	
17	1.9963282E-02	-3.1304768E-03	
18	1.9338135E-02	-3.1206992E-03	
19	1.8715128E-02	-3.1090413E-03	
20	1.8094659E-02	-3.0952763E-03	
21	1.7477177E-02	-3.0791648E-03	
22	1.6863170E-02	-3.0604543E-03	
23	1.6253186E-02	-3.0388797E-03	
24	1.5647827E-02	-3.0141628E-03	
25	1.5047749E-02	-2.9860313E-03	
26	1.4453657E-02	-2.9542578E-03	
27	1.3866302E-02	-2.9186793E-03	
28	1.3286449E-02	-2.8791970E-03	
29	1.2714886E-02	-2.8357771E-03	
30	1.2152399E-02	-2.7884502E-03	
31	1.1599760E-02	-2.7373116E-03	
32	1.1057720E-02	-2.6825213E-03	
33	1.0526983E-02	-2.6243031E-03	
34	1.0008208E-02	-2.5629462E-03	
35	9.5019898E-03	-2.4988041E-03	
36	9.0088459E-03	-2.4322698E-03	
37	8.5292178E-03	-2.3637328E-03	
38	8.0634643E-03	-2.2935599E-03	
39	7.6118798E-03	-2.2220984E-03	
40	7.1746890E-03	-2.1496751E-03	
41	6.7520533E-03	-2.0765980E-03	
42	6.3440741E-03	-2.0031571E-03	
43	5.9507965E-03	-1.9296249E-03	
44	5.5722131E-03	-1.8562581E-03	
45	5.2082680E-03	-1.7832980E-03	
46	4.8588535E-03	-1.7109706E-03	
47	4.5238233E-03	-1.6394892E-03	
48	4.2029881E-03	-1.5690542E-03	
49	3.8961193E-03	-1.4998539E-03	
50	3.6029538E-03	-1.4320663E-03	
51	3.3231890E-03	-1.3658577E-03	
52	3.0564884E-03	-1.3013848E-03	
53	2.8025149E-03	-1.2388031E-03	
54	2.5608450E-03	-1.1782460E-03	
55	2.3310724E-03	-1.1198509E-03	
56	2.1127519E-03	-1.0637456E-03	
57	1.9054134E-03	-1.0100520E-03	
58	1.7085625E-03	-9.5888703E-04	
59	1.5216825E-03	-9.1036301E-04	
60	1.3442341E-03	-8.6458838E-04	
61	1.1756568E-03	-8.2166818E-04	
62	1.0153697E-03	-7.8170445E-04	
63	8.6277443E-04	-7.4475010E-04	
64	7.1726875E-04	-7.1080910E-04	
65	5.7824977E-04	-6.7988333E-04	
66	4.4511528E-04	-6.5195971E-04	
67	3.1726858E-04	-6.2699572E-04	
68	1.9412454E-04	-6.0491843E-04	
69	7.5115450E-05	-5.8562746E-04	
70	-4.0303895E-05	-5.6899826E-04	
71	-1.5265163E-04	-5.5488569E-04	
72	-2.6241519E-04	-5.4312840E-04	
73	-3.7004830E-04	-5.3355075E-04	



74	-4.7596816E-04	-5.2596321E-04
75	-5.8055272E-04	-5.2016274E-04
76	-6.8413797E-04	-5.1593303E-04
77	-7.8701536E-04	-5.1304473E-04
78	-8.8942914E-04	-5.1125558E-04
79	-9.9157385E-04	-5.1031036E-04
80	-1.0935917E-03	-5.0994080E-04
81	-1.1955749E-03	-5.0986558E-04

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION *Build date:Jul 11, 2017*          |
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New Project

STRESS RESULTS FOR GROUP NO. 1

0\_L  
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 81  
CURRENT TIME IS 7.0000

HARDENING 2D SOIL ELEMENT

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

EL * FACTOR	FORCE UFACOR	DISPL-Y Peq	VERTICAL-P Su_a	HORIZON.-P Su_p	MAX-V-P LAYER	MAX-H-P	STATE	STIFFNESS	Z-LEVEL	PORE	E
1 D	0.000	-3.0072E-02	0.000	0.000	0.000	0.000	PASSIVE	0.000	0.000	0.000	
1.000	1.000	0.000	0.000	0.000	Ug5_2_8_L_0						
2 D	0.4882	-2.9439E-02	2.327	0.7683	2.335	1.603	UL-RL	5.0142E+04	-0.2000	1.673	
1.000	1.000	2.441	0.000	0.000	Ug5_2_8_L_0						
3 D	0.9414	-2.8806E-02	4.655	1.362	4.711	3.119	UL-RL	5.0142E+04	-0.4000	3.345	
1.000	1.000	4.707	0.000	0.000	Ug5_2_8_L_0						
4 D	1.395	-2.8172E-02	6.982	1.955	7.140	4.509	UL-RL	5.0142E+04	-0.6000	5.018	
1.000	1.000	6.973	0.000	0.000	Ug5_2_8_L_0						
5 D	1.848	-2.7539E-02	9.309	2.548	9.606	5.780	UL-RL	5.0142E+04	-0.8000	6.691	
1.000	1.000	9.239	0.000	0.000	Ug5_2_8_L_0						
6 D	2.301	-2.6906E-02	11.64	3.142	12.09	6.958	UL-RL	5.0142E+04	-1.000	8.364	
1.000	1.000	11.51	0.000	0.000	Ug5_2_8_L_0						
7 D	2.754	-2.6273E-02	13.96	3.735	14.57	8.073	UL-RL	5.0142E+04	-1.200	10.04	
1.000	1.000	13.77	0.000	0.000	Ug5_2_8_L_0						
8 D	3.207	-2.5640E-02	16.29	4.328	17.17	9.145	UL-RL	5.0142E+04	-1.400	11.71	
1.000	1.000	16.04	0.000	0.000	Ug5_2_8_L_0						
9 D	3.660	-2.5007E-02	18.62	4.921	19.79	10.19	UL-RL	5.0142E+04	-1.600	13.38	
1.000	1.000	18.30	0.000	0.000	Ug5_2_8_L_0						
10 D	4.114	-2.4374E-02	20.95	5.513	22.21	11.22	UL-RL	5.0142E+04	-1.800	15.05	
1.000	1.000	20.57	0.000	0.000	Ug5_2_8_L_0						
11 D	4.567	-2.3742E-02	23.27	6.105	24.76	12.23	UL-RL	5.0142E+04	-2.000	16.73	
1.000	1.000	22.83	0.000	0.000	Ug5_2_8_L_0						
12 D	5.019	-2.3110E-02	25.60	6.697	27.27	13.24	UL-RL	5.0142E+04	-2.200	18.40	
1.000	1.000	25.10	0.000	0.000	Ug5_2_8_L_0						
13 D	5.472	-2.2479E-02	27.93	7.289	29.64	14.24	UL-RL	5.0142E+04	-2.400	20.07	
1.000	1.000	27.36	0.000	0.000	Ug5_2_8_L_0						
14 D	5.925	-2.1848E-02	30.25	7.879	32.11	15.24	UL-RL	5.0142E+04	-2.600	21.75	
1.000	1.000	29.62	0.000	0.000	Ug5_2_8_L_0						
15 D	6.378	-2.1219E-02	32.58	8.470	34.57	16.23	UL-RL	5.0142E+04	-2.800	23.42	
1.000	1.000	31.89	0.000	0.000	Ug5_2_8_L_0						
16 D	6.830	-2.0590E-02	34.91	9.060	37.01	17.23	UL-RL	5.0142E+04	-3.000	25.09	
1.000	1.000	34.15	0.000	0.000	Ug5_2_8_L_0						
17 D	7.283	-1.9963E-02	37.24	9.649	39.34	18.22	UL-RL	5.0142E+04	-3.200	26.76	
1.000	1.000	36.41	0.000	0.000	Ug5_2_8_L_0						
18 D	7.735	-1.9338E-02	39.56	10.24	41.77	19.21	UL-RL	5.0142E+04	-3.400	28.44	
1.000	1.000	38.67	0.000	0.000	Ug5_2_8_L_0						
19 D	8.187	-1.8715E-02	41.89	10.83	44.18	20.21	UL-RL	5.0142E+04	-3.600	30.11	
1.000	1.000	40.93	0.000	0.000	Ug5_2_8_L_0						
20 D	8.639	-1.8095E-02	44.22	11.41	46.51	21.20	UL-RL	5.0142E+04	-3.800	31.78	
1.000	1.000	43.20	0.000	0.000	Ug5_2_8_L_0						
21 D	9.091	-1.7477E-02	46.55	12.00	48.91	22.19	UL-RL	5.0142E+04	-4.000	33.45	
1.000	1.000	45.45	0.000	0.000	Ug5_2_8_L_0						
22 D	9.543	-1.6863E-02	48.87	12.59	51.30	23.18	UL-RL	5.0142E+04	-4.200	35.13	
1.000	1.000	47.71	0.000	0.000	Ug5_2_8_L_0						
23 D	9.994	-1.6253E-02	51.20	13.17	53.63	24.18	UL-RL	5.0142E+04	-4.400	36.80	
1.000	1.000	49.97	0.000	0.000	Ug5_2_8_L_0						
24 D	10.45	-1.5648E-02	53.53	13.76	56.01	25.17	UL-RL	5.0142E+04	-4.600	38.47	
1.000	1.000	52.23	0.000	0.000	Ug5_2_8_L_0						
25 D	10.90	-1.5048E-02	55.85	14.34	58.39	26.17	UL-RL	5.0142E+04	-4.800	40.15	
1.000	1.000	54.49	0.000	0.000	Ug5_2_8_L_0						
26 D	11.35	-1.4454E-02	58.18	14.93	60.77	27.16	UL-RL	5.0142E+04	-5.000	41.82	
1.000	1.000	56.74	0.000	0.000	Ug5_2_8_L_0						
27 D	11.80	-1.3866E-02	60.51	15.51	63.09	28.16	UL-RL	5.0142E+04	-5.200	43.49	
1.000	1.000	59.00	0.000	0.000	Ug5_2_8_L_0						
28 D	12.25	-1.3286E-02	62.84	16.09	65.46	29.16	UL-RL	5.0142E+04	-5.400	45.16	
1.000	1.000	61.26	0.000	0.000	Ug5_2_8_L_0						
29 D	12.70	-1.2715E-02	65.16	16.68	67.83	30.15	UL-RL	5.0142E+04	-5.600	46.84	
1.000	1.000	63.51	0.000	0.000	Ug5_2_8_L_0						
30 D	13.15	-1.2152E-02	67.49	17.26	70.15	31.15	UL-RL	5.0142E+04	-5.800	48.51	
1.000	1.000	65.77	0.000	0.000	Ug5_2_8_L_0						
31 D	13.61	-1.1600E-02	69.82	17.84	72.52	32.15	UL-RL	5.0142E+04	-6.000	50.18	
1.000	1.000	68.03	0.000	0.000	Ug5_2_8_L_0						
32 D	14.06	-1.1058E-02	72.15	18.43	74.88	33.15	UL-RL	5.0142E+04	-6.200	51.85	
1.000	1.000	70.28	0.000	0.000	Ug5_2_8_L_0						
33 D	14.51	-1.0527E-02	74.47	19.01	77.20	34.15	UL-RL	5.0142E+04	-6.400	53.53	

1.000	1.000	72.54	0.000	0.000	Ug5_2_8_L_0						
34 D	14.96	-1.0008E-02	76.80	19.59	79.56	35.15	UL-RL	5.0142E+04	-6.600	55.20	
1.000	1.000	74.79	0.000	0.000	Ug5_2_8_L_0						
35 D	15.41	-9.5020E-03	79.13	20.18	81.92	36.15	UL-RL	5.0142E+04	-6.800	56.87	
1.000	1.000	77.05	0.000	0.000	Ug5_2_8_L_0						
36 D	15.86	-9.0088E-03	81.45	20.76	84.28	37.16	UL-RL	5.0142E+04	-7.000	58.55	
1.000	1.000	79.30	0.000	0.000	Ug5_2_8_L_0						
37 D	16.31	-8.5292E-03	83.78	21.34	86.59	38.16	UL-RL	5.0142E+04	-7.200	60.22	
1.000	1.000	81.56	0.000	0.000	Ug5_2_8_L_0						
38 D	16.76	-8.0635E-03	86.11	21.92	88.95	39.16	UL-RL	5.0142E+04	-7.400	61.89	
1.000	1.000	83.81	0.000	0.000	Ug5_2_8_L_0						
39 D	17.21	-7.6119E-03	88.44	22.51	91.30	40.17	UL-RL	5.0142E+04	-7.600	63.56	
1.000	1.000	86.07	0.000	0.000	Ug5_2_8_L_0						
40 D	17.67	-7.1747E-03	90.76	23.09	93.62	41.17	UL-RL	5.0142E+04	-7.800	65.24	
1.000	1.000	88.33	0.000	0.000	Ug5_2_8_L_0						
41 D	18.12	-6.7521E-03	93.09	23.67	95.97	42.18	UL-RL	5.0142E+04	-8.000	66.91	
1.000	1.000	90.58	0.000	0.000	Ug5_2_8_L_0						
42 D	18.57	-6.3441E-03	95.42	24.26	98.32	43.19	UL-RL	5.0142E+04	-8.200	68.58	
1.000	1.000	92.84	0.000	0.000	Ug5_2_8_L_0						
43 D	19.02	-5.9508E-03	97.75	24.84	100.6	44.19	UL-RL	5.0142E+04	-8.400	70.25	
1.000	1.000	95.09	0.000	0.000	Ug5_2_8_L_0						
44 D	19.47	-5.5722E-03	100.1	25.42	103.0	45.20	UL-RL	5.0142E+04	-8.600	71.93	
1.000	1.000	97.35	0.000	0.000	Ug5_2_8_L_0						
45 D	19.92	-5.2083E-03	102.4	26.01	105.3	46.21	UL-RL	5.0142E+04	-8.800	73.60	
1.000	1.000	99.61	0.000	0.000	Ug5_2_8_L_0						
46 D	20.37	-4.8589E-03	104.7	26.59	107.7	47.22	UL-RL	5.0142E+04	-9.000	75.27	
1.000	1.000	101.9	0.000	0.000	Ug5_2_8_L_0						
47 D	20.82	-4.5238E-03	107.1	27.18	110.0	48.23	UL-RL	5.0142E+04	-9.200	76.95	
1.000	1.000	104.1	0.000	0.000	Ug5_2_8_L_0						
48 D	21.28	-4.2030E-03	109.4	27.77	112.3	49.24	UL-RL	5.0142E+04	-9.400	78.62	
1.000	1.000	106.4	0.000	0.000	Ug5_2_8_L_0						
49 D	21.73	-3.8961E-03	111.7	28.35	114.7	50.26	UL-RL	5.0142E+04	-9.600	80.29	
1.000	1.000	108.6	0.000	0.000	Ug5_2_8_L_0						
50 D	22.18	-3.6030E-03	114.0	28.94	117.0	51.27	UL-RL	5.0142E+04	-9.800	81.96	
1.000	1.000	110.9	0.000	0.000	Ug5_2_8_L_0						
51 D	22.63	-3.3232E-03	116.4	29.52	119.4	52.28	UL-RL	5.0142E+04	-10.000	83.64	
1.000	1.000	113.2	0.000	0.000	Ug5_2_8_L_0						
52 D	23.08	-3.0565E-03	118.7	30.11	121.7	53.29	UL-RL	5.0142E+04	-10.200	85.31	
1.000	1.000	115.4	0.000	0.000	Ug5_2_8_L_0						
53 D	23.54	-2.8025E-03	121.0	30.70	124.0	54.31	UL-RL	5.0142E+04	-10.400	86.98	
1.000	1.000	117.7	0.000	0.000	Ug5_2_8_L_0						
54 D	23.99	-2.5608E-03	123.3	31.29	126.4	55.32	UL-RL	5.0142E+04	-10.600	88.65	
1.000	1.000	119.9	0.000	0.000	Ug5_2_8_L_0						
55 D	24.44	-2.3311E-03	125.7	31.88	128.7	56.34	UL-RL	5.0142E+04	-10.800	90.33	
1.000	1.000	122.2	0.000	0.000	Ug5_2_8_L_0						
56 D	24.89	-2.1128E-03	128.0	32.47	131.0	57.35	UL-RL	5.0142E+04	-11.000	92.00	
1.000	1.000	124.5	0.000	0.000	Ug5_2_8_L_0						
57 D	25.35	-1.9054E-03	130.3	33.06	133.4	58.37	UL-RL	5.0142E+04	-11.200	93.67	
1.000	1.000	126.7	0.000	0.000	Ug5_2_8_L_0						
58 D	25.80	-1.7086E-03	132.7	33.65	135.7	59.39	UL-RL	5.0142E+04	-11.400	95.35	
1.000	1.000	129.0	0.000	0.000	Ug5_2_8_L_0						
59 D	26.25	-1.5217E-03	135.0	34.24	138.0	60.40	UL-RL	5.0142E+04	-11.600	97.02	
1.000	1.000	131.3	0.000	0.000	Ug5_2_8_L_0						
60 D	26.70	-1.3442E-03	137.3	34.83	140.4	61.42	UL-RL	5.0142E+04	-11.800	98.69	
1.000	1.000	133.5	0.000	0.000	Ug5_2_8_L_0						
61 D	27.16	-1.1757E-03	139.6	35.45	142.7	62.44	UL-RL	5.0142E+04	-12.000	100.4	
1.000	1.000	135.8	0.000	0.000	Ug5_2_8_L_0						
62 D	30.38	-1.0154E-03	141.8	49.86	144.8	63.42	UL-RL	2.4005E+04	-12.200	102.0	
1.000	1.000	151.9	0.000	0.000	Ug6_741_743_L_0						
63 D	30.89	-8.6277E-04	143.9	50.75	147.0	64.53	UL-RL	2.4005E+04	-12.400	103.7	
1.000	1.000	154.5	0.000	0.000	Ug6_741_743_L_0						
64 D	31.40	-7.1727E-04	146.0	51.64	149.1	65.58	UL-RL	2.4005E+04	-12.600	105.4	
1.000	1.000	157.0	0.000	0.000	Ug6_741_743_L_0						
65 D	32.53	-5.7825E-04	148.1	55.60	151.2	66.59	UL-RL	2.4005E+04	-12.800	107.1	
1.000	1.000	162.7	0.000	0.000	Ug6_741_743_L_0						
66 D	33.74	-4.4512E-04	150.3	59.96	153.3	67.57	UL-RL	2.4005E+04	-13.000	108.7	
1.000	1.000	168.7	0.000	0.000	Ug6_741_743_L_0						
67 D	34.92	-3.1727E-04	152.4	64.18	155.4	68.78	UL-RL	2.4005E+04	-13.200	110.4	
1.000	1.000	174.6	0.000	0.000	Ug6_741_743_L_0						
68 D	35.96	-1.9412E-04	154.5	67.71	157.5	70.56	UL-RL	2.4005E+04	-13.400	112.1	
1.000	1.000	179.8	0.000	0.000	Ug6_741_743_L_0						
69 D	36.95	-7.5115E-05	156.7	70.98	159.6	72.13	UL-RL	2.4005E+04	-13.600	113.7	
1.000	1.000	184.7	0.000	0.000	Ug6_741_743_L_0						
70 D	37.76	4.0304E-05	158.8	73.40	161.7	73.78	UL-RL	2.4005E+04	-13.800	115.4	
1.000	1.000	188.8	0.000	0.000	Ug6_741_743_L_0						
71 D	38.47	1.5265E-04	160.9	75.28	163.8	75.65	UL-RL	2.4005E+04	-14.000	117.1	
1.000	1.000	192.4	0.000	0.000	Ug6_741_743_L_0						
72 D	39.18	2.6242E-04	163.0	77.14	165.9	77.50	UL-RL	2.4005E+04	-14.200	118.8	
1.000	1.000	195.9	0.000	0.000	Ug6_741_743_L_0						
73 D	39.88	3.7005E-04	165.2	78.97	168.0	79.31	UL-RL	2.4005E+04	-14.400	120.4	
1.000	1.000	199.4	0.000	0.000	Ug6_741_743_L_0						
74 D	40.58	4.7597E-04	167.3	80.78	170.1	81.11	UL-RL	2.4005E+04	-14.600	122.1	
1.000	1.000	202.9	0.000	0.000	Ug6_741_743_L_0						
75 D	41.27	5.8055E-04	169.4	82.58	172.2	82.90	UL-RL	2.4005E+04	-14.800	123.8	
1.000	1.000	206.4	0.000	0.000	Ug6_741_743_L_0						
76 D	41.96	6.8414E-04	171.5	84.37	174.3	84.67	UL-RL	2.4005E+04	-15.000	125.5	
1.000	1.000	209.8	0.000	0.000	Ug6_741_743_L_0						
77 D	42.65	7.8702E-04	173.7	86.15	176.4	86.44	UL-RL	2.4005E+04	-15.200	127.1	
1.000	1.000	213.3	0.000	0.000	Ug6_741_743_L_0						
78 D	43.36	8.8943E-04	175.8	87.98	178.5	88.26	UL-RL	2.4005E+04	-15.400	128.8	
1.000	1.000	216.8	0.000	0.000	Ug6_741_743_L_0						

79 D	44.06	9.9157E-04	177.9	89.81	180.6	90.08	UL-RL	2.4005E+04	-15.60	130.5
1.000	1.000	220.3	0.000	0.000	Ug6_741_743_L_0					
80 D	44.76	1.0936E-03	180.1	91.64	182.7	91.90	UL-RL	2.4005E+04	-15.80	132.1
1.000	1.000	223.8	0.000	0.000	Ug6_741_743_L_0					
81 D	22.73	1.1956E-03	182.2	93.47	184.8	93.71	UL-RL	2.4005E+04	-16.00	133.8
1.000	1.000	227.3	0.000	0.000	Ug6_741_743_L_0					

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|                PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*                |
|                |
|                NewProject.BaseDesignSection_28.Nominal_63                |
|                Exe Time :24 May 2018                18:25:47                |
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New Project

STRESS RESULTS FOR GROUP NO. 2

0\_R :  
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 81  
CURRENT TIME IS 7.0000

HARDENING 2D SOIL ELEMENT

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

EL * FACTOR	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
1	0.000	--	--	--	--	--	REMOVED	--	0.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
2	0.000	--	--	--	--	--	REMOVED	--	-0.2000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
3	0.000	--	--	--	--	--	REMOVED	--	-0.4000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
4	0.000	--	--	--	--	--	REMOVED	--	-0.6000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
5	0.000	--	--	--	--	--	REMOVED	--	-0.8000	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	--	-1.200	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
8	0.000	--	--	--	--	--	REMOVED	--	-1.400	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
9	0.000	--	--	--	--	--	REMOVED	--	-1.600	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
10	0.000	--	--	--	--	--	REMOVED	--	-1.800	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
11	0.000	--	--	--	--	--	REMOVED	--	-2.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
12	0.000	--	--	--	--	--	REMOVED	--	-2.200	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
13	0.000	--	--	--	--	--	REMOVED	--	-2.400	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
14	0.000	--	--	--	--	--	REMOVED	--	-2.600	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
15	0.000	--	--	--	--	--	REMOVED	--	-2.800	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
16	0.000	--	--	--	--	--	REMOVED	--	-3.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
17	0.000	--	--	--	--	--	REMOVED	--	-3.200	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
18	0.000	--	--	--	--	--	REMOVED	--	-3.400	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
19	0.000	--	--	--	--	--	REMOVED	--	-3.600	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
20	0.000	--	--	--	--	--	REMOVED	--	-3.800	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
21	0.000	--	--	--	--	--	REMOVED	--	-4.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
22	0.000	--	--	--	--	--	REMOVED	--	-4.200	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
23	0.000	--	--	--	--	--	REMOVED	--	-4.400	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
24 D	1.317	1.5648E-02	0.8364	5.422	46.00	63.03	UL-RL	2.4929E+04	-4.600	1.164	
1.000	1.000	6.586	0.000	0.000	Ug5_2_8_L_0						
25 D	4.036	1.5048E-02	2.509	16.69	48.00	61.64	UL-RL	2.4929E+04	-4.800	3.491	
1.000	1.000	20.18	0.000	0.000	Ug5_2_8_L_0						
26 D	6.755	1.4454E-02	4.182	27.96	50.00	60.31	UL-RL	2.4929E+04	-5.000	5.818	
1.000	1.000	33.78	0.000	0.000	Ug5_2_8_L_0						
27 D	9.475	1.3866E-02	5.855	39.23	52.00	69.31	UL-RL	2.4929E+04	-5.200	8.145	
1.000	1.000	47.37	0.000	0.000	Ug5_2_8_L_0						
28 D	12.19	1.3286E-02	7.527	50.50	54.00	80.86	UL-RL	2.4929E+04	-5.400	10.47	
1.000	1.000	60.97	0.000	0.000	Ug5_2_8_L_0						
29 D	14.91	1.2715E-02	9.200	61.76	56.00	92.41	UL-RL	2.4929E+04	-5.600	12.80	
1.000	1.000	74.56	0.000	0.000	Ug5_2_8_L_0						
30 D	17.63	1.2152E-02	10.87	73.03	58.00	101.5	UL-RL	2.4929E+04	-5.800	15.13	
1.000	1.000	88.16	0.000	0.000	Ug5_2_8_L_0						
31 D	20.35	1.1600E-02	12.55	84.30	60.00	98.41	UL-RL	2.4929E+04	-6.000	17.45	
1.000	1.000	101.8	0.000	0.000	Ug5_2_8_L_0						
32 D	23.07	1.1058E-02	14.22	95.57	62.00	95.80	UL-RL	2.4929E+04	-6.200	19.78	
1.000	1.000	115.4	0.000	0.000	Ug5_2_8_L_0						
33 D	25.79	1.0527E-02	15.89	106.8	64.00	107.1	UL-RL	2.4929E+04	-6.400	22.11	

1.000	1.000	129.0	0.000	0.000	Ug5_2_8_L_0					
34 D	28.51	1.0008E-02	17.56	118.1	66.00	118.3	UL-RL	2.4929E+04	-6.600	24.44
1.000	1.000	142.5	0.000	0.000	Ug5_2_8_L_0					
35 D	29.47	9.5020E-03	19.24	120.6	68.00	120.8	UL-RL	2.4929E+04	-6.800	26.76
1.000	1.000	147.3	0.000	0.000	Ug5_2_8_L_0					
36 D	29.14	9.0088E-03	20.91	116.6	70.00	116.9	UL-RL	2.4929E+04	-7.000	29.09
1.000	1.000	145.7	0.000	0.000	Ug5_2_8_L_0					
37 D	28.85	8.5292E-03	22.58	112.8	72.00	113.1	UL-RL	2.4929E+04	-7.200	31.42
1.000	1.000	144.3	0.000	0.000	Ug5_2_8_L_0					
38 D	28.59	8.0635E-03	24.25	109.2	74.00	109.4	UL-RL	2.4929E+04	-7.400	33.75
1.000	1.000	142.9	0.000	0.000	Ug5_2_8_L_0					
39 D	28.36	7.6119E-03	25.93	105.7	76.00	106.0	UL-RL	2.4929E+04	-7.600	36.07
1.000	1.000	141.8	0.000	0.000	Ug5_2_8_L_0					
40 D	28.16	7.1747E-03	27.60	102.4	78.00	102.6	UL-RL	2.4929E+04	-7.800	38.40
1.000	1.000	140.8	0.000	0.000	Ug5_2_8_L_0					
41 D	27.99	6.7521E-03	29.27	99.22	80.00	99.47	UL-RL	2.4929E+04	-8.000	40.73
1.000	1.000	139.9	0.000	0.000	Ug5_2_8_L_0					
42 D	27.85	6.3441E-03	30.95	96.21	82.00	96.46	UL-RL	2.4929E+04	-8.200	43.05
1.000	1.000	139.3	0.000	0.000	Ug5_2_8_L_0					
43 D	27.75	5.9508E-03	32.62	93.37	84.00	93.62	UL-RL	2.4929E+04	-8.400	45.38
1.000	1.000	138.7	0.000	0.000	Ug5_2_8_L_0					
44 D	27.68	5.5722E-03	34.29	90.68	86.00	90.93	UL-RL	2.4929E+04	-8.600	47.71
1.000	1.000	138.4	0.000	0.000	Ug5_2_8_L_0					
45 D	27.64	5.2083E-03	35.96	88.14	88.00	88.40	UL-RL	2.4929E+04	-8.800	50.04
1.000	1.000	138.2	0.000	0.000	Ug5_2_8_L_0					
46 D	27.63	4.8589E-03	37.64	85.76	90.00	86.02	UL-RL	2.4929E+04	-9.000	52.36
1.000	1.000	138.1	0.000	0.000	Ug5_2_8_L_0					
47 D	27.65	4.5238E-03	39.31	83.53	92.00	83.79	UL-RL	2.4929E+04	-9.200	54.69
1.000	1.000	138.2	0.000	0.000	Ug5_2_8_L_0					
48 D	27.70	4.2030E-03	40.98	81.46	94.00	81.72	UL-RL	2.4929E+04	-9.400	57.02
1.000	1.000	138.5	0.000	0.000	Ug5_2_8_L_0					
49 D	27.77	3.8961E-03	42.65	79.53	96.00	79.79	UL-RL	2.4929E+04	-9.600	59.35
1.000	1.000	138.9	0.000	0.000	Ug5_2_8_L_0					
50 D	27.88	3.6030E-03	44.33	77.74	98.00	78.01	UL-RL	2.4929E+04	-9.800	61.67
1.000	1.000	139.4	0.000	0.000	Ug5_2_8_L_0					
51 D	28.02	3.3232E-03	46.00	76.09	100.00	76.36	UL-RL	2.4929E+04	-10.000	64.00
1.000	1.000	140.1	0.000	0.000	Ug5_2_8_L_0					
52 D	28.18	3.0565E-03	47.67	74.57	102.0	74.85	UL-RL	2.4929E+04	-10.200	66.33
1.000	1.000	140.9	0.000	0.000	Ug5_2_8_L_0					
53 D	28.37	2.8025E-03	49.35	73.19	104.0	73.47	UL-RL	2.4929E+04	-10.400	68.65
1.000	1.000	141.8	0.000	0.000	Ug5_2_8_L_0					
54 D	28.58	2.5608E-03	51.02	71.93	106.0	72.22	UL-RL	2.4929E+04	-10.600	70.98
1.000	1.000	142.9	0.000	0.000	Ug5_2_8_L_0					
55 D	28.82	2.3311E-03	52.69	70.80	108.0	71.09	UL-RL	2.4929E+04	-10.800	73.31
1.000	1.000	144.1	0.000	0.000	Ug5_2_8_L_0					
56 D	29.08	2.1128E-03	54.36	69.78	110.0	70.07	UL-RL	2.4929E+04	-11.000	75.64
1.000	1.000	145.4	0.000	0.000	Ug5_2_8_L_0					
57 D	29.37	1.9054E-03	56.04	68.87	112.0	69.17	UL-RL	2.4929E+04	-11.200	77.96
1.000	1.000	146.8	0.000	0.000	Ug5_2_8_L_0					
58 D	29.67	1.7086E-03	57.71	68.06	114.0	68.37	UL-RL	2.4929E+04	-11.400	80.29
1.000	1.000	148.4	0.000	0.000	Ug5_2_8_L_0					
59 D	30.00	1.5217E-03	59.38	67.36	116.0	67.67	UL-RL	2.4929E+04	-11.600	82.62
1.000	1.000	150.0	0.000	0.000	Ug5_2_8_L_0					
60 D	30.34	1.3442E-03	61.05	66.75	118.0	67.07	UL-RL	2.4929E+04	-11.800	84.95
1.000	1.000	151.7	0.000	0.000	Ug5_2_8_L_0					
61 D	30.70	1.1757E-03	62.73	66.21	120.0	66.55	UL-RL	2.4929E+04	-12.000	87.27
1.000	1.000	153.5	0.000	0.000	Ug5_2_8_L_0					
62 D	30.56	1.0154E-03	64.20	63.20	121.8	63.50	UL-RL	1.8746E+04	-12.200	89.60
1.000	1.000	152.8	0.000	0.000	Ug6_741_743_L_0					
63 D	30.99	8.6277E-04	65.67	63.03	123.6	63.38	UL-RL	1.8746E+04	-12.400	91.93
1.000	1.000	155.0	0.000	0.000	Ug6_741_743_L_0					
64 D	31.43	7.1727E-04	67.15	62.92	125.4	63.32	UL-RL	1.8746E+04	-12.600	94.25
1.000	1.000	157.2	0.000	0.000	Ug6_741_743_L_0					
65 D	31.58	5.7825E-04	68.62	61.34	127.2	64.05	UL-RL	1.8746E+04	-12.800	96.58
1.000	1.000	157.9	0.000	0.000	Ug6_741_743_L_0					
66 D	31.70	4.4512E-04	70.09	59.58	129.0	64.94	UL-RL	1.8746E+04	-13.000	98.91
1.000	1.000	158.5	0.000	0.000	Ug6_741_743_L_0					
67 D	31.83	3.1727E-04	71.56	57.93	130.8	65.83	UL-RL	1.8746E+04	-13.200	101.2
1.000	1.000	159.2	0.000	0.000	Ug6_741_743_L_0					
68 D	31.99	1.9412E-04	73.04	56.38	132.6	66.72	UL-RL	1.8746E+04	-13.400	103.6
1.000	1.000	159.9	0.000	0.000	Ug6_741_743_L_0					
69 D	32.16	7.5115E-05	74.51	54.92	134.4	67.60	UL-RL	1.8746E+04	-13.600	105.9
1.000	1.000	160.8	0.000	0.000	Ug6_741_743_L_0					
70 D	32.35	-4.0304E-05	75.98	53.53	136.2	68.49	UL-RL	1.8746E+04	-13.800	108.2
1.000	1.000	161.8	0.000	0.000	Ug6_741_743_L_0					
71 D	32.55	-1.5265E-04	77.45	52.21	138.0	69.38	UL-RL	1.8746E+04	-14.000	110.5
1.000	1.000	162.8	0.000	0.000	Ug6_741_743_L_0					
72 D	32.76	-2.6242E-04	78.93	50.94	139.8	70.27	UL-RL	1.8746E+04	-14.200	112.9
1.000	1.000	163.8	0.000	0.000	Ug6_741_743_L_0					
73 D	32.98	-3.7005E-04	80.40	49.72	141.6	71.16	UL-RL	1.8746E+04	-14.400	115.2
1.000	1.000	164.9	0.000	0.000	Ug6_741_743_L_0					
74 D	33.21	-4.7597E-04	81.87	48.53	143.4	72.05	UL-RL	1.8746E+04	-14.600	117.5
1.000	1.000	166.1	0.000	0.000	Ug6_741_743_L_0					
75 D	33.44	-5.8055E-04	83.35	47.36	145.2	72.94	UL-RL	1.8746E+04	-14.800	119.9
1.000	1.000	167.2	0.000	0.000	Ug6_741_743_L_0					
76 D	33.68	-6.8414E-04	84.82	46.22	147.0	73.84	UL-RL	1.8746E+04	-15.000	122.2
1.000	1.000	168.4	0.000	0.000	Ug6_741_743_L_0					
77 D	33.92	-7.8702E-04	86.29	45.09	148.8	74.73	UL-RL	1.8746E+04	-15.200	124.5
1.000	1.000	169.6	0.000	0.000	Ug6_741_743_L_0					
78 D	34.16	-8.8943E-04	87.76	43.97	150.6	75.62	UL-RL	1.8746E+04	-15.400	126.8
1.000	1.000	170.8	0.000	0.000	Ug6_741_743_L_0					

79 D	34.40	-9.9157E-04	89.24	42.86	152.4	76.51	UL-RL	1.8746E+04	-15.60	129.2
1.000	1.000	172.0	0.000	0.000	Ug6_741_743_L_0					
80 D	34.65	-1.0936E-03	90.71	41.74	154.2	77.40	UL-RL	1.8746E+04	-15.80	131.5
1.000	1.000	173.2	0.000	0.000	Ug6_741_743_L_0					
81 D	17.44	-1.1956E-03	92.18	40.63	156.0	78.29	UL-RL	1.8746E+04	-16.00	133.8
1.000	1.000	174.4	0.000	0.000	Ug6_741_743_L_0					

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|           PARATIEPLUS(TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION *Build date:Jul 11, 2017* |
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|                               NewProject.BaseDesignSection_28.Nominal_63                       |
|                               Exe Time :24 May 2018      18:25:47                             |
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New Project

STRESS RESULTS FOR GROUP NO. 3

WallElement\_33 :  
ELEMENT TYPE 2 NO.OF ELEMENTS. IN THIS GROUP 80  
CURRENT TIME IS 7.0000

WALL2D ELEMENT

EL	TA	TB	MA	MB
1	2.06160E-09	-2.06160E-09	2.05642E-10	8.88122E-10
2	0.48820	-0.48820	-8.94242E-10	9.76400E-02
3	1.4296	-1.4296	-9.76400E-02	0.38356
4	2.8243	-2.8243	-0.38356	0.94842
5	4.6721	-4.6721	-0.94842	1.8828
6	6.9731	-6.9731	-1.8828	3.2775
7	9.7274	-9.7274	-3.2775	5.2229
8	12.935	-12.935	-5.2229	7.8099
9	16.595	-16.595	-7.8099	11.129
10	20.709	-20.709	-11.129	15.271
11	25.275	-25.275	-15.271	20.326
12	30.295	-30.295	-20.326	26.385
13	35.767	-35.767	-26.385	33.538
14	41.692	-41.692	-33.538	41.876
15	48.069	-48.069	-41.876	51.490
16	54.900	-54.900	-51.490	62.470
17	62.182	-62.182	-62.470	74.907
18	69.917	-69.917	-74.907	88.890
19	78.104	-78.104	-88.890	104.51
20	86.743	-86.743	-104.51	121.86
21	95.834	-95.834	-121.86	141.03
22	105.38	-105.38	-141.03	162.10
23	115.37	-115.37	-162.10	185.18
24	124.50	-124.50	-185.18	210.08
25	131.36	-131.36	-210.08	236.35
26	135.95	-135.95	-236.35	263.54
27	138.28	-138.28	-263.54	291.20
28	138.34	-138.34	-291.20	318.86
29	136.13	-136.13	-318.86	346.09
30	131.65	-131.65	-346.09	372.42
31	124.90	-124.90	-372.42	397.40
32	115.89	-115.89	-397.40	420.58
33	104.61	-104.61	-420.58	441.50
34	91.056	-91.056	-441.50	459.71
35	76.999	-76.999	-459.71	475.11
36	63.717	-63.717	-475.11	487.85
37	51.178	-51.178	-487.85	498.09
38	39.353	-39.353	-498.09	505.96
39	28.211	-28.211	-505.96	511.60
40	17.718	-17.718	-511.60	515.15
41	7.8451	-7.8451	-515.15	516.71
42	-1.4409	1.4409	-516.71	516.43
43	-10.171	10.171	-516.43	514.39
44	-18.378	18.378	-514.39	510.72
45	-26.092	26.092	-510.72	505.50
46	-33.343	33.343	-505.50	498.83
47	-40.164	40.164	-498.83	490.80
48	-46.582	46.582	-490.80	481.48
49	-52.628	52.628	-481.48	470.95
50	-58.330	58.330	-470.95	459.29
51	-63.715	63.715	-459.29	446.55
52	-68.811	68.811	-446.55	432.78
53	-73.644	73.644	-432.78	418.05
54	-78.238	78.238	-418.05	402.41
55	-82.619	82.619	-402.41	385.88
56	-86.808	86.808	-385.88	368.52
57	-90.829	90.829	-368.52	350.36
58	-94.701	94.701	-350.36	331.42
59	-98.446	98.446	-331.42	311.73
60	-102.08	102.08	-311.73	291.31
61	-105.62	105.62	-291.31	270.19
62	-105.80	105.80	-270.19	249.03
63	-105.90	105.90	-249.03	227.85
64	-105.93	105.93	-227.85	206.66
65	-104.98	104.98	-206.66	185.67
66	-102.94	102.94	-185.67	165.08
67	-99.855	99.855	-165.08	145.11
68	-95.887	95.887	-145.11	125.93
69	-91.104	91.104	-125.93	107.71



70	-85.692	85.692	-107.71	90.573
71	-79.769	79.769	-90.573	74.619
72	-73.352	73.352	-74.619	59.949
73	-66.455	66.455	-59.949	46.658
74	-59.088	59.088	-46.658	34.840
75	-51.260	51.260	-34.840	24.588
76	-42.976	42.976	-24.588	15.993
77	-34.241	34.241	-15.993	9.1449
78	-25.046	25.046	-9.1449	4.1356
79	-15.394	15.394	-4.1356	1.0568
80	-5.2837	5.2837	-1.0568	-7.56184E-12

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION *Build date:Jul 11, 2017*          |
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|          NewProject.BaseDesignSection_28.Nominal_63                                          |
|          Exe Time :24 May 2018      18:25:47                                              |
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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	5
4	CONVERGENCE :YES	5
5	CONVERGENCE :YES	6
6	CONVERGENCE :YES	6
7	CONVERGENCE :YES	2

END OF PROCESS FOR PROBLEM

New Project

NONLINEAR SOLUTION CPU TIME .... 0.08 [sec]

DATABASE CREATION CPU TIME..... 0.28 [sec]

# Design Assumption : A1+M1+R1 - File di Paratie - File di output (.out)

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*          |
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|                               NewProject.BaseDesignSection_28.A1M1R1_1757                               |
|                               Exe Time :24 May 2018      18:25:47                                   |
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*
*  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  2017.1      *Build date:Jul 11, 2017*      *
*
*
*  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_28.A1M1R1_1757
STARTING
ACCEPTED <FILE,GENW >
ACCEPTED <FILE,PLOTTER,BINARY >
ACCEPTED <SOLVE TOTAL_STRESS >
ACCEPTED <PARAM ITEMAX 40 >
ACCEPTED <CONTROL HINGES 0 0.0001 0.001 >
```

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

```
PRELIMINARY OPERATIONS CPU TIME 0.00 [sec]
```

```

+-----+
|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*          |
|                                                                                                                                            |
|                                                                                                                                            |
|                                                                                                                                            |
|                                                                                                                                            |
|                                                                                                                                            |
|                                                                                                                                            |
|                                                                                                                                            |
|                                                                                                                                            |
|                                                                                                                                            |
+-----+

```

INPUT FILE HAS BEEN GENERATED BY WALGEN PROGRAM

New Project

```

NO. OF NODAL POINTS (NUMNP) ..... 81
NO. OF COORDINATES (NCOORD)..... 2
NO. OF NODE DOFS (NDOF)..... 2
NO. OF EQUATIONS (NEQ)..... 162
NO. OF CONSTRAINTS CARDS (NVINC)..... 0
NO. OF ELEMENT GROUPS (NEG)..... 3
NO. OF SOLUTION STEPS (NSTE)..... 7
NO. OF ELEMENT SETS ATTACHED TO SLAVE NODES ... 0
NO. OF RECORD FROM WALGEN ..... 102
NO. OF LONG NAMES (LASTNAME) ..... 22
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.

```

```
+-----+
|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|                               NewProject.BaseDesignSection_28.A1M1R1_1757                       |
|                               Exe Time :24 May 2018      18:25:47                             |
+-----+
```

P R E P R O C E S S O R     D A T A

N O .   O F   C O M M A N D S     102

```
1 : UNIT m kN
2 : TITLE New Project
3 : DELTA 0.2
4 : option param itemax 40
5 : option control hinges 0 0.0001 0.001
6 : WALL LeftWall_32 0 -16 0 1
7 : SOIL 0_L LeftWall_32 -16 0 1 0
8 : SOIL 0_R LeftWall_32 -16 0 2 180
9 : LDATA Ug5_2_8_L_0 0 LeftWall_32
10 : ATREST 0.5 0.5 1
11 : WEIGHT 19 10 10
12 : PERMEABILITY 0.0001
13 : RESISTANCE 0 37
14 : YOUNG 5E+04 1.5E+05
15 : ENDL
16 : LDATA Ug6_741_743_L_0 -12 LeftWall_32
17 : ATREST 0.5 0.5 1
18 : WEIGHT 18.5 9 10
19 : PERMEABILITY 0.0001
20 : RESISTANCE 5 26
21 : YOUNG 3E+04 9E+04
22 : ENDL
23 : MATERIAL S355_114 2.1E+08
24 : MATERIAL C2530_104 3.148E+07
25 : BEAM WallElement_33 LeftWall_32 -16 0 C2530_104 0.8121 00 00 0
26 : STRIP LeftWall_32 1 6 1 11.75 0 5.769 45
27 : STEP Stage1_31
28 : CHANGE Ug5_2_8_L_0 U-FRICT=37 LeftWall_32
29 : CHANGE Ug5_2_8_L_0 D-FRICT=37 LeftWall_32
30 : CHANGE Ug5_2_8_L_0 U-KA=0.249 LeftWall_32
31 : CHANGE Ug5_2_8_L_0 U-KP=6.738 LeftWall_32
32 : CHANGE Ug5_2_8_L_0 D-KA=0.249 LeftWall_32
33 : CHANGE Ug5_2_8_L_0 D-KP=6.738 LeftWall_32
34 : CHANGE Ug6_741_743_L_0 U-FRICT=26 LeftWall_32
35 : CHANGE Ug6_741_743_L_0 D-FRICT=26 LeftWall_32
36 : CHANGE Ug6_741_743_L_0 U-KA=0.39 LeftWall_32
37 : CHANGE Ug6_741_743_L_0 U-KP=3.404 LeftWall_32
38 : CHANGE Ug6_741_743_L_0 D-KA=0.39 LeftWall_32
39 : CHANGE Ug6_741_743_L_0 D-KP=3.404 LeftWall_32
40 : CHANGE Ug5_2_8_L_0 U-COHE=0 LeftWall_32
41 : CHANGE Ug5_2_8_L_0 D-COHE=0 LeftWall_32
42 : CHANGE Ug6_741_743_L_0 U-COHE=5 LeftWall_32
43 : CHANGE Ug6_741_743_L_0 D-COHE=5 LeftWall_32
44 : SETWALL LeftWall_32
45 : GEOM 0 0
46 : WATER 0 0 -16 0 0
47 : ADD WallElement_33
48 : ENDSTEP
49 : STEP Stage2_158
50 : CHANGE Ug5_2_8_L_0 D-FRICT=37 LeftWall_32
51 : CHANGE Ug6_741_743_L_0 D-FRICT=26 LeftWall_32
52 : CHANGE Ug5_2_8_L_0 D-COHE=0 LeftWall_32
53 : CHANGE Ug6_741_743_L_0 D-COHE=5 LeftWall_32
54 : SETWALL LeftWall_32
55 : GEOM 0 -1
56 : WATER 0 1 -16 0 0
57 : ENDSTEP
58 : STEP Stage3_255
59 : CHANGE Ug5_2_8_L_0 D-FRICT=37 LeftWall_32
60 : CHANGE Ug6_741_743_L_0 D-FRICT=26 LeftWall_32
61 : CHANGE Ug5_2_8_L_0 D-COHE=0 LeftWall_32
62 : CHANGE Ug6_741_743_L_0 D-COHE=5 LeftWall_32
63 : SETWALL LeftWall_32
64 : GEOM 0 -2
65 : WATER 0 2 -16 0 0
66 : ENDSTEP
67 : STEP Stage4_352
68 : CHANGE Ug5_2_8_L_0 D-FRICT=37 LeftWall_32
69 : CHANGE Ug6_741_743_L_0 D-FRICT=26 LeftWall_32
70 : CHANGE Ug5_2_8_L_0 D-COHE=0 LeftWall_32
71 : CHANGE Ug6_741_743_L_0 D-COHE=5 LeftWall_32
72 : SETWALL LeftWall_32
73 : GEOM 0 -3
74 : WATER 0 3 -16 0 0
75 : ENDSTEP
76 : STEP Stage5_449
77 : CHANGE Ug5_2_8_L_0 D-FRICT=37 LeftWall_32
78 : CHANGE Ug6_741_743_L_0 D-FRICT=26 LeftWall_32
```

```
79 : CHANGE Ug5_2_8_L_0 D-COHE=0 LeftWall_32
80 : CHANGE Ug6_741_743_L_0 D-COHE=5 LeftWall_32
81 : SETWALL LeftWall_32
82 : GEOM 0 -4
83 : WATER 0 4 -16 0 0
84 : ENDSTEP
85 : STEP Stage6_546
86 : CHANGE Ug5_2_8_L_0 D-FRICT=37 LeftWall_32
87 : CHANGE Ug6_741_743_L_0 D-FRICT=26 LeftWall_32
88 : CHANGE Ug5_2_8_L_0 D-COHE=0 LeftWall_32
89 : CHANGE Ug6_741_743_L_0 D-COHE=5 LeftWall_32
90 : SETWALL LeftWall_32
91 : GEOM 0 -4.5
92 : WATER 0 4.5 -16 0 0
93 : ENDSTEP
94 : STEP Stage7_643
95 : CHANGE Ug5_2_8_L_0 D-FRICT=37 LeftWall_32
96 : CHANGE Ug6_741_743_L_0 D-FRICT=26 LeftWall_32
97 : CHANGE Ug5_2_8_L_0 D-COHE=0 LeftWall_32
98 : CHANGE Ug6_741_743_L_0 D-COHE=5 LeftWall_32
99 : SETWALL LeftWall_32
100 : GEOM 0 -4.5
101 : WATER 0 4.5 -16 0 0
102 : ENDSTEP
```



```

+-----+
|          PARATIEPLUS(TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION *Build date:Jul 11, 2017* |
|                                                                                               |
|                                                                                               |
|          NewProject.BaseDesignSection_28.A1M1R1_1757 |
|          Exe Time :24 May 2018          18:25:47    |
+-----+

```

ELEMENT GROUP NO. 1

```

0_L
  5 81 0 1 0 0 0 0 0 0 0 0 0 0 2 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
7 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

```

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	1	0.2000	0.000	0.000	0.000	1.000
22	22	1	0.2000	0.000	0.000	0.000	1.000
23	23	1	0.2000	0.000	0.000	0.000	1.000
24	24	1	0.2000	0.000	0.000	0.000	1.000
25	25	1	0.2000	0.000	0.000	0.000	1.000
26	26	1	0.2000	0.000	0.000	0.000	1.000
27	27	1	0.2000	0.000	0.000	0.000	1.000
28	28	1	0.2000	0.000	0.000	0.000	1.000
29	29	1	0.2000	0.000	0.000	0.000	1.000
30	30	1	0.2000	0.000	0.000	0.000	1.000
31	31	1	0.2000	0.000	0.000	0.000	1.000
32	32	1	0.2000	0.000	0.000	0.000	1.000
33	33	1	0.2000	0.000	0.000	0.000	1.000
34	34	1	0.2000	0.000	0.000	0.000	1.000
35	35	1	0.2000	0.000	0.000	0.000	1.000
36	36	1	0.2000	0.000	0.000	0.000	1.000
37	37	1	0.2000	0.000	0.000	0.000	1.000
38	38	1	0.2000	0.000	0.000	0.000	1.000
39	39	1	0.2000	0.000	0.000	0.000	1.000
40	40	1	0.2000	0.000	0.000	0.000	1.000
41	41	1	0.2000	0.000	0.000	0.000	1.000
42	42	1	0.2000	0.000	0.000	0.000	1.000
43	43	1	0.2000	0.000	0.000	0.000	1.000
44	44	1	0.2000	0.000	0.000	0.000	1.000
45	45	1	0.2000	0.000	0.000	0.000	1.000



46	46	1	0.2000	0.000	0.000	0.000	0.000	1.000
47	47	1	0.2000	0.000	0.000	0.000	0.000	1.000
48	48	1	0.2000	0.000	0.000	0.000	0.000	1.000
49	49	1	0.2000	0.000	0.000	0.000	0.000	1.000
50	50	1	0.2000	0.000	0.000	0.000	0.000	1.000
51	51	1	0.2000	0.000	0.000	0.000	0.000	1.000
52	52	1	0.2000	0.000	0.000	0.000	0.000	1.000
53	53	1	0.2000	0.000	0.000	0.000	0.000	1.000
54	54	1	0.2000	0.000	0.000	0.000	0.000	1.000
55	55	1	0.2000	0.000	0.000	0.000	0.000	1.000
56	56	1	0.2000	0.000	0.000	0.000	0.000	1.000
57	57	1	0.2000	0.000	0.000	0.000	0.000	1.000
58	58	1	0.2000	0.000	0.000	0.000	0.000	1.000
59	59	1	0.2000	0.000	0.000	0.000	0.000	1.000
60	60	1	0.2000	0.000	0.000	0.000	0.000	1.000
61	61	1	0.2000	0.000	0.000	0.000	0.000	1.000
62	62	2	0.2000	0.000	0.000	0.000	0.000	1.000
63	63	2	0.2000	0.000	0.000	0.000	0.000	1.000
64	64	2	0.2000	0.000	0.000	0.000	0.000	1.000
65	65	2	0.2000	0.000	0.000	0.000	0.000	1.000
66	66	2	0.2000	0.000	0.000	0.000	0.000	1.000
67	67	2	0.2000	0.000	0.000	0.000	0.000	1.000
68	68	2	0.2000	0.000	0.000	0.000	0.000	1.000
69	69	2	0.2000	0.000	0.000	0.000	0.000	1.000
70	70	2	0.2000	0.000	0.000	0.000	0.000	1.000
71	71	2	0.2000	0.000	0.000	0.000	0.000	1.000
72	72	2	0.2000	0.000	0.000	0.000	0.000	1.000
73	73	2	0.2000	0.000	0.000	0.000	0.000	1.000
74	74	2	0.2000	0.000	0.000	0.000	0.000	1.000
75	75	2	0.2000	0.000	0.000	0.000	0.000	1.000
76	76	2	0.2000	0.000	0.000	0.000	0.000	1.000
77	77	2	0.2000	0.000	0.000	0.000	0.000	1.000
78	78	2	0.2000	0.000	0.000	0.000	0.000	1.000
79	79	2	0.2000	0.000	0.000	0.000	0.000	1.000
80	80	2	0.2000	0.000	0.000	0.000	0.000	1.000
81	81	2	0.1000	0.000	0.000	0.000	0.000	1.000

```

+-----+
|          PARATIEPLUS(TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION *Build date:Jul 11, 2017* |
|                                                                                               |
|                                                                                               |
|          NewProject.BaseDesignSection_28.A1M1R1_1757 |
|          Exe Time :24 May 2018          18:25:47    |
+-----+

```

ELEMENT GROUP NO. 2

```

0_R
  5 81 0 1 0 0 0 0 0 0 0 0 0 0 2 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
7 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

```

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	1	0.2000	0.000	0.000	0.000	2.000
22	22	1	0.2000	0.000	0.000	0.000	2.000
23	23	1	0.2000	0.000	0.000	0.000	2.000
24	24	1	0.2000	0.000	0.000	0.000	2.000
25	25	1	0.2000	0.000	0.000	0.000	2.000
26	26	1	0.2000	0.000	0.000	0.000	2.000
27	27	1	0.2000	0.000	0.000	0.000	2.000
28	28	1	0.2000	0.000	0.000	0.000	2.000
29	29	1	0.2000	0.000	0.000	0.000	2.000
30	30	1	0.2000	0.000	0.000	0.000	2.000
31	31	1	0.2000	0.000	0.000	0.000	2.000
32	32	1	0.2000	0.000	0.000	0.000	2.000
33	33	1	0.2000	0.000	0.000	0.000	2.000
34	34	1	0.2000	0.000	0.000	0.000	2.000
35	35	1	0.2000	0.000	0.000	0.000	2.000
36	36	1	0.2000	0.000	0.000	0.000	2.000
37	37	1	0.2000	0.000	0.000	0.000	2.000
38	38	1	0.2000	0.000	0.000	0.000	2.000
39	39	1	0.2000	0.000	0.000	0.000	2.000
40	40	1	0.2000	0.000	0.000	0.000	2.000
41	41	1	0.2000	0.000	0.000	0.000	2.000
42	42	1	0.2000	0.000	0.000	0.000	2.000
43	43	1	0.2000	0.000	0.000	0.000	2.000
44	44	1	0.2000	0.000	0.000	0.000	2.000
45	45	1	0.2000	0.000	0.000	0.000	2.000

46	46	1	0.2000	0.000	0.000	0.000	0.000	2.000
47	47	1	0.2000	0.000	0.000	0.000	0.000	2.000
48	48	1	0.2000	0.000	0.000	0.000	0.000	2.000
49	49	1	0.2000	0.000	0.000	0.000	0.000	2.000
50	50	1	0.2000	0.000	0.000	0.000	0.000	2.000
51	51	1	0.2000	0.000	0.000	0.000	0.000	2.000
52	52	1	0.2000	0.000	0.000	0.000	0.000	2.000
53	53	1	0.2000	0.000	0.000	0.000	0.000	2.000
54	54	1	0.2000	0.000	0.000	0.000	0.000	2.000
55	55	1	0.2000	0.000	0.000	0.000	0.000	2.000
56	56	1	0.2000	0.000	0.000	0.000	0.000	2.000
57	57	1	0.2000	0.000	0.000	0.000	0.000	2.000
58	58	1	0.2000	0.000	0.000	0.000	0.000	2.000
59	59	1	0.2000	0.000	0.000	0.000	0.000	2.000
60	60	1	0.2000	0.000	0.000	0.000	0.000	2.000
61	61	1	0.2000	0.000	0.000	0.000	0.000	2.000
62	62	2	0.2000	0.000	0.000	0.000	0.000	2.000
63	63	2	0.2000	0.000	0.000	0.000	0.000	2.000
64	64	2	0.2000	0.000	0.000	0.000	0.000	2.000
65	65	2	0.2000	0.000	0.000	0.000	0.000	2.000
66	66	2	0.2000	0.000	0.000	0.000	0.000	2.000
67	67	2	0.2000	0.000	0.000	0.000	0.000	2.000
68	68	2	0.2000	0.000	0.000	0.000	0.000	2.000
69	69	2	0.2000	0.000	0.000	0.000	0.000	2.000
70	70	2	0.2000	0.000	0.000	0.000	0.000	2.000
71	71	2	0.2000	0.000	0.000	0.000	0.000	2.000
72	72	2	0.2000	0.000	0.000	0.000	0.000	2.000
73	73	2	0.2000	0.000	0.000	0.000	0.000	2.000
74	74	2	0.2000	0.000	0.000	0.000	0.000	2.000
75	75	2	0.2000	0.000	0.000	0.000	0.000	2.000
76	76	2	0.2000	0.000	0.000	0.000	0.000	2.000
77	77	2	0.2000	0.000	0.000	0.000	0.000	2.000
78	78	2	0.2000	0.000	0.000	0.000	0.000	2.000
79	79	2	0.2000	0.000	0.000	0.000	0.000	2.000
80	80	2	0.2000	0.000	0.000	0.000	0.000	2.000
81	81	2	0.1000	0.000	0.000	0.000	0.000	2.000

```

+-----+
|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017* |
|                                                                                               |
|                                                                                               |
|          NewProject.BaseDesignSection_28.A1M1R1_1757 |
|          Exe Time :24 May 2018           18:25:47   |
+-----+

```

ELEMENT GROUP NO. 3

```

WallElement_33
  2 80 0 1 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
  7  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 ..... 0.00000

```

```

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
  7  1.000

```

element data

e1	na	nb	mat	erc1	erc2	thick	by-i	by-j
1	1	2	1	0.000	0.000	0.8121	0.000	0.000
2	2	3	1	0.000	0.000	0.8121	0.000	0.000
3	3	4	1	0.000	0.000	0.8121	0.000	0.000
4	4	5	1	0.000	0.000	0.8121	0.000	0.000
5	5	6	1	0.000	0.000	0.8121	0.000	0.000
6	6	7	1	0.000	0.000	0.8121	0.000	0.000
7	7	8	1	0.000	0.000	0.8121	0.000	0.000
8	8	9	1	0.000	0.000	0.8121	0.000	0.000
9	9	10	1	0.000	0.000	0.8121	0.000	0.000
10	10	11	1	0.000	0.000	0.8121	0.000	0.000
11	11	12	1	0.000	0.000	0.8121	0.000	0.000
12	12	13	1	0.000	0.000	0.8121	0.000	0.000
13	13	14	1	0.000	0.000	0.8121	0.000	0.000
14	14	15	1	0.000	0.000	0.8121	0.000	0.000
15	15	16	1	0.000	0.000	0.8121	0.000	0.000
16	16	17	1	0.000	0.000	0.8121	0.000	0.000
17	17	18	1	0.000	0.000	0.8121	0.000	0.000
18	18	19	1	0.000	0.000	0.8121	0.000	0.000
19	19	20	1	0.000	0.000	0.8121	0.000	0.000
20	20	21	1	0.000	0.000	0.8121	0.000	0.000
21	21	22	1	0.000	0.000	0.8121	0.000	0.000
22	22	23	1	0.000	0.000	0.8121	0.000	0.000
23	23	24	1	0.000	0.000	0.8121	0.000	0.000
24	24	25	1	0.000	0.000	0.8121	0.000	0.000
25	25	26	1	0.000	0.000	0.8121	0.000	0.000
26	26	27	1	0.000	0.000	0.8121	0.000	0.000
27	27	28	1	0.000	0.000	0.8121	0.000	0.000
28	28	29	1	0.000	0.000	0.8121	0.000	0.000
29	29	30	1	0.000	0.000	0.8121	0.000	0.000
30	30	31	1	0.000	0.000	0.8121	0.000	0.000
31	31	32	1	0.000	0.000	0.8121	0.000	0.000
32	32	33	1	0.000	0.000	0.8121	0.000	0.000
33	33	34	1	0.000	0.000	0.8121	0.000	0.000
34	34	35	1	0.000	0.000	0.8121	0.000	0.000
35	35	36	1	0.000	0.000	0.8121	0.000	0.000
36	36	37	1	0.000	0.000	0.8121	0.000	0.000
37	37	38	1	0.000	0.000	0.8121	0.000	0.000
38	38	39	1	0.000	0.000	0.8121	0.000	0.000

39	39	40	1	0.000	0.000	0.8121	0.000	0.000
40	40	41	1	0.000	0.000	0.8121	0.000	0.000
41	41	42	1	0.000	0.000	0.8121	0.000	0.000
42	42	43	1	0.000	0.000	0.8121	0.000	0.000
43	43	44	1	0.000	0.000	0.8121	0.000	0.000
44	44	45	1	0.000	0.000	0.8121	0.000	0.000
45	45	46	1	0.000	0.000	0.8121	0.000	0.000
46	46	47	1	0.000	0.000	0.8121	0.000	0.000
47	47	48	1	0.000	0.000	0.8121	0.000	0.000
48	48	49	1	0.000	0.000	0.8121	0.000	0.000
49	49	50	1	0.000	0.000	0.8121	0.000	0.000
50	50	51	1	0.000	0.000	0.8121	0.000	0.000
51	51	52	1	0.000	0.000	0.8121	0.000	0.000
52	52	53	1	0.000	0.000	0.8121	0.000	0.000
53	53	54	1	0.000	0.000	0.8121	0.000	0.000
54	54	55	1	0.000	0.000	0.8121	0.000	0.000
55	55	56	1	0.000	0.000	0.8121	0.000	0.000
56	56	57	1	0.000	0.000	0.8121	0.000	0.000
57	57	58	1	0.000	0.000	0.8121	0.000	0.000
58	58	59	1	0.000	0.000	0.8121	0.000	0.000
59	59	60	1	0.000	0.000	0.8121	0.000	0.000
60	60	61	1	0.000	0.000	0.8121	0.000	0.000
61	61	62	1	0.000	0.000	0.8121	0.000	0.000
62	62	63	1	0.000	0.000	0.8121	0.000	0.000
63	63	64	1	0.000	0.000	0.8121	0.000	0.000
64	64	65	1	0.000	0.000	0.8121	0.000	0.000
65	65	66	1	0.000	0.000	0.8121	0.000	0.000
66	66	67	1	0.000	0.000	0.8121	0.000	0.000
67	67	68	1	0.000	0.000	0.8121	0.000	0.000
68	68	69	1	0.000	0.000	0.8121	0.000	0.000
69	69	70	1	0.000	0.000	0.8121	0.000	0.000
70	70	71	1	0.000	0.000	0.8121	0.000	0.000
71	71	72	1	0.000	0.000	0.8121	0.000	0.000
72	72	73	1	0.000	0.000	0.8121	0.000	0.000
73	73	74	1	0.000	0.000	0.8121	0.000	0.000
74	74	75	1	0.000	0.000	0.8121	0.000	0.000
75	75	76	1	0.000	0.000	0.8121	0.000	0.000
76	76	77	1	0.000	0.000	0.8121	0.000	0.000
77	77	78	1	0.000	0.000	0.8121	0.000	0.000
78	78	79	1	0.000	0.000	0.8121	0.000	0.000
79	79	80	1	0.000	0.000	0.8121	0.000	0.000
80	80	81	1	0.000	0.000	0.8121	0.000	0.000

```
+-----+
|          PARATIEPLUS(TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION  *Build date:Jul 11, 2017*          |
|                                                                                                                                            |
|                                                                                                                                            |
|                                                                                                                                            |
|          NewProject.BaseDesignSection_28.A1M1R1_1757                                                                                       |
|          Exe Time :24 May 2018          18:25:47                                                                                           |
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```
NO. OF NODAL LOADS (NLOAD) ..... 0
NO. OF LOAD CURVES (NLCUR) ..... 14
MAXIMUM POINTS/LCURVE (NPTM)..... 5
```

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+-----+
|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*          |
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|                                                                                                                                            |
|                                                                                                                                            |
+-----+

```

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
8.00000	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
8.00000	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
8.00000	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
8.00000	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
8.00000	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
8.00000	0.0000E+00

LOAD FUNCTION NUMBER = 7  
NUMBER OF TIME POINTS = 5

TIME VALUE	FUNCTION
0.00000	0.0000E+00
6.80000	0.0000E+00
7.00000	0.1000E+01
7.20000	0.0000E+00
8.00000	0.0000E+00

LOAD FUNCTION NUMBER = 8  
NUMBER OF TIME POINTS = 4

TIME VALUE	FUNCTION
0.00000	0.0000E+00
0.80000	0.0000E+00
1.00000	0.1000E+01
8.00000	0.1000E+01

LOAD FUNCTION NUMBER = 9  
NUMBER OF TIME POINTS = 4

TIME VALUE	FUNCTION
0.00000	0.0000E+00
1.80000	0.0000E+00
2.00000	0.1000E+01
8.00000	0.1000E+01

LOAD FUNCTION NUMBER = 10  
NUMBER OF TIME POINTS = 4

TIME VALUE	FUNCTION
0.00000	0.0000E+00
2.80000	0.0000E+00
3.00000	0.1000E+01
8.00000	0.1000E+01

LOAD FUNCTION NUMBER = 11  
NUMBER OF TIME POINTS = 4

TIME VALUE	FUNCTION
0.00000	0.0000E+00
3.80000	0.0000E+00
4.00000	0.1000E+01
8.00000	0.1000E+01

LOAD FUNCTION NUMBER = 12  
NUMBER OF TIME POINTS = 4

TIME VALUE	FUNCTION
0.00000	0.0000E+00
4.80000	0.0000E+00
5.00000	0.1000E+01
8.00000	0.1000E+01

LOAD FUNCTION NUMBER = 13  
NUMBER OF TIME POINTS = 4

TIME VALUE	FUNCTION
0.00000	0.0000E+00
5.80000	0.0000E+00
6.00000	0.1000E+01
8.00000	0.1000E+01

LOAD FUNCTION NUMBER = 14  
NUMBER OF TIME POINTS = 4

TIME VALUE	FUNCTION
0.00000	0.0000E+00



6.80000	0.0000E+00
7.00000	0.1000E+01
8.00000	0.1000E+01

NO. OF DISTRIBUTED LOAD CARDS 0

```

+-----+
|          PARATIEPLUS(TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION *Build date:Jul 11, 2017*          |
|                                                                                                                                            |
|                                                                                                                                            |
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|                                                                                                                                            |
|                                                                                                                                            |
+-----+

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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

STEP 7 TOTAL APPLIED LOAD IN DIR. 2 Y-DISPL.F 0.0000000
STEP 7 TOTAL APPLIED LOAD IN DIR. 4 X-ROT. F 0.0000000

```

LOAD INPUT SECTION COMPLETED

```
+-----+
|          PARATIEPLUS(TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION  *Build date:Jul 11, 2017*          |
|                                                                                                                                            |
|                                                                                                                                            |
|                                                                                                                                            |
|          NewProject.BaseDesignSection_28.A1M1R1_1757                                                                                       |
|          Exe Time :24 May 2018          18:25:47                                                                                           |
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```
NO. OF LAYERS ..... 2
NO. OF DATA PER LAYER..... 100
```

```

+-----+
|                PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                                                                            |
|                                                                                                                                            |
|                                                                                                                                            |
|                NewProject.BaseDesignSection_28.A1M1R1_1757  |
|                Exe Time :24 May 2018  18:25:47  |
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```

LAYER DESCRIPTORS FOR STEP NO. 1

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

```

ITEM NO.  1<NAME      >= 18.000  (BOTH WALLS)
ITEM NO.  2<NATURE   >= 1.0000  (BOTH WALLS)
ITEM NO.  3<LEVEL    >= 0.0000  (BOTH WALLS)
ITEM NO.  4<WALL     >= 1.0000  (BOTH WALLS)
ITEM NO.  5<GAMMAD   >= 19.000  (BOTH WALLS)
ITEM NO.  6<GAMMAB   >= 10.000  (BOTH WALLS)
ITEM NO.  7<GAMMAW   >= 10.000  (BOTH WALLS)
ITEM NO.  9<U-FRICT  >= 37.000  (BOTH WALLS)
ITEM NO. 10<U-KA     >= 0.24900  WALL NO.  1
ITEM NO. 11<U-KP     >= 6.7380  WALL NO.  1
ITEM NO. 12<K0-NC    >= 0.50000  (BOTH WALLS)
ITEM NO. 13<NEXP     >= 0.50000  (BOTH WALLS)
ITEM NO. 14<OCR      >= 1.0000  (BOTH WALLS)
ITEM NO. 16<MODEL    >= 1.0000  (BOTH WALLS)
ITEM NO. 17<EVC      >= 50000.  (BOTH WALLS)
ITEM NO. 18<EUR      >= 0.15000E+06 (BOTH WALLS)
ITEM NO. 27<U-PERM   >= 0.10000E-03 (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 >= 37.000  (BOTH WALLS)
ITEM NO. 60<D-KA     >= 0.24900  WALL NO.  1
ITEM NO. 61<D-KP     >= 6.7380  WALL NO.  1
ITEM NO. 77<D-PERM   >= 0.10000E-03 (BOTH WALLS)

```

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

```

ITEM NO.  1<NAME      >= 19.000  (BOTH WALLS)
ITEM NO.  2<NATURE   >= 1.0000  (BOTH WALLS)
ITEM NO.  3<LEVEL    >= -12.000  (BOTH WALLS)
ITEM NO.  4<WALL     >= 1.0000  (BOTH WALLS)
ITEM NO.  5<GAMMAD   >= 18.500  (BOTH WALLS)
ITEM NO.  6<GAMMAB   >= 9.0000  (BOTH WALLS)
ITEM NO.  7<GAMMAW   >= 10.000  (BOTH WALLS)
ITEM NO.  8<U-COHE   >= 5.0000  (BOTH WALLS)
ITEM NO.  9<U-FRICT  >= 26.000  (BOTH WALLS)
ITEM NO. 10<U-KA     >= 0.39000  WALL NO.  1
ITEM NO. 11<U-KP     >= 3.4040  WALL NO.  1
ITEM NO. 12<K0-NC    >= 0.50000  (BOTH WALLS)
ITEM NO. 13<NEXP     >= 0.50000  (BOTH WALLS)
ITEM NO. 14<OCR      >= 1.0000  (BOTH WALLS)
ITEM NO. 16<MODEL    >= 1.0000  (BOTH WALLS)
ITEM NO. 17<EVC      >= 30000.  (BOTH WALLS)
ITEM NO. 18<EUR      >= 90000.  (BOTH WALLS)
ITEM NO. 27<U-PERM   >= 0.10000E-03 (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   >= 5.0000  (BOTH WALLS)
ITEM NO. 59<D-FRICT >= 26.000  (BOTH WALLS)
ITEM NO. 60<D-KA     >= 0.39000  WALL NO.  1
ITEM NO. 61<D-KP     >= 3.4040  WALL NO.  1
ITEM NO. 77<D-PERM   >= 0.10000E-03 (BOTH WALLS)

```

LAYER DESCRIPTORS FOR STEP NO. 2

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

```

ITEM NO.  1<NAME      >= 18.000  (BOTH WALLS)
ITEM NO.  2<NATURE   >= 1.0000  (BOTH WALLS)
ITEM NO.  3<LEVEL    >= 0.0000  (BOTH WALLS)
ITEM NO.  4<WALL     >= 1.0000  (BOTH WALLS)
ITEM NO.  5<GAMMAD   >= 19.000  (BOTH WALLS)
ITEM NO.  6<GAMMAB   >= 10.000  (BOTH WALLS)
ITEM NO.  7<GAMMAW   >= 10.000  (BOTH WALLS)
ITEM NO.  9<U-FRICT  >= 37.000  (BOTH WALLS)
ITEM NO. 10<U-KA     >= 0.24900  WALL NO.  1
ITEM NO. 11<U-KP     >= 6.7380  WALL NO.  1
ITEM NO. 12<K0-NC    >= 0.50000  (BOTH WALLS)
ITEM NO. 13<NEXP     >= 0.50000  (BOTH WALLS)
ITEM NO. 14<OCR      >= 1.0000  (BOTH WALLS)
ITEM NO. 16<MODEL    >= 1.0000  (BOTH WALLS)
ITEM NO. 17<EVC      >= 50000.  (BOTH WALLS)
ITEM NO. 18<EUR      >= 0.15000E+06 (BOTH WALLS)
ITEM NO. 27<U-PERM   >= 0.10000E-03 (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 >= 37.000 (BOTH WALLS)  
ITEM NO. 60<D-KA >= 0.24900 WALL NO. 1  
ITEM NO. 61<D-KP >= 6.7380 WALL NO. 1  
ITEM NO. 77<D-PERM >= 0.10000E-03 (BOTH WALLS)

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

ITEM NO. 1<NAME >= 19.000 (BOTH WALLS)  
ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)  
ITEM NO. 3<LEVEL >= -12.000 (BOTH WALLS)  
ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)  
ITEM NO. 5<GAMMAD >= 18.500 (BOTH WALLS)  
ITEM NO. 6<GAMMAB >= 9.0000 (BOTH WALLS)  
ITEM NO. 7<GAMMAW >= 10.000 (BOTH WALLS)  
ITEM NO. 8<U-COHE >= 5.0000 (BOTH WALLS)  
ITEM NO. 9<U-FRICT >= 26.000 (BOTH WALLS)  
ITEM NO. 10<U-KA >= 0.39000 WALL NO. 1  
ITEM NO. 11<U-KP >= 3.4040 WALL NO. 1  
ITEM NO. 12<K0-NC >= 0.50000 (BOTH WALLS)  
ITEM NO. 13<NEXP >= 0.50000 (BOTH WALLS)  
ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)  
ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)  
ITEM NO. 17<EVC >= 30000. (BOTH WALLS)  
ITEM NO. 18<EUR >= 90000. (BOTH WALLS)  
ITEM NO. 27<U-PERM >= 0.10000E-03 (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 >= 5.0000 (BOTH WALLS)  
ITEM NO. 59<D-FRICT >= 26.000 (BOTH WALLS)  
ITEM NO. 60<D-KA >= 0.39000 WALL NO. 1  
ITEM NO. 61<D-KP >= 3.4040 WALL NO. 1  
ITEM NO. 77<D-PERM >= 0.10000E-03 (BOTH WALLS)

LAYER DESCRIPTORS FOR STEP NO. 3

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

ITEM NO. 1<NAME >= 18.000 (BOTH WALLS)  
ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)  
ITEM NO. 3<LEVEL >= 0.0000 (BOTH WALLS)  
ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)  
ITEM NO. 5<GAMMAD >= 19.000 (BOTH WALLS)  
ITEM NO. 6<GAMMAB >= 10.000 (BOTH WALLS)  
ITEM NO. 7<GAMMAW >= 10.000 (BOTH WALLS)  
ITEM NO. 9<U-FRICT >= 37.000 (BOTH WALLS)  
ITEM NO. 10<U-KA >= 0.24900 WALL NO. 1  
ITEM NO. 11<U-KP >= 6.7380 WALL NO. 1  
ITEM NO. 12<K0-NC >= 0.50000 (BOTH WALLS)  
ITEM NO. 13<NEXP >= 0.50000 (BOTH WALLS)  
ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)  
ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)  
ITEM NO. 17<EVC >= 50000. (BOTH WALLS)  
ITEM NO. 18<EUR >= 0.15000E+06 (BOTH WALLS)  
ITEM NO. 27<U-PERM >= 0.10000E-03 (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 >= 37.000 (BOTH WALLS)  
ITEM NO. 60<D-KA >= 0.24900 WALL NO. 1  
ITEM NO. 61<D-KP >= 6.7380 WALL NO. 1  
ITEM NO. 77<D-PERM >= 0.10000E-03 (BOTH WALLS)

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

ITEM NO. 1<NAME >= 19.000 (BOTH WALLS)  
ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)  
ITEM NO. 3<LEVEL >= -12.000 (BOTH WALLS)  
ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)  
ITEM NO. 5<GAMMAD >= 18.500 (BOTH WALLS)  
ITEM NO. 6<GAMMAB >= 9.0000 (BOTH WALLS)  
ITEM NO. 7<GAMMAW >= 10.000 (BOTH WALLS)  
ITEM NO. 8<U-COHE >= 5.0000 (BOTH WALLS)  
ITEM NO. 9<U-FRICT >= 26.000 (BOTH WALLS)  
ITEM NO. 10<U-KA >= 0.39000 WALL NO. 1  
ITEM NO. 11<U-KP >= 3.4040 WALL NO. 1  
ITEM NO. 12<K0-NC >= 0.50000 (BOTH WALLS)  
ITEM NO. 13<NEXP >= 0.50000 (BOTH WALLS)  
ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)  
ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)  
ITEM NO. 17<EVC >= 30000. (BOTH WALLS)  
ITEM NO. 18<EUR >= 90000. (BOTH WALLS)  
ITEM NO. 27<U-PERM >= 0.10000E-03 (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 >= 5.0000 (BOTH WALLS)  
ITEM NO. 59<D-FRICT >= 26.000 (BOTH WALLS)  
ITEM NO. 60<D-KA >= 0.39000 WALL NO. 1  
ITEM NO. 61<D-KP >= 3.4040 WALL NO. 1  
ITEM NO. 77<D-PERM >= 0.10000E-03 (BOTH WALLS)

LAYER DESCRIPTORS FOR STEP NO. 4

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

ITEM NO. 1<NAME >= 18.000 (BOTH WALLS)  
 ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)  
 ITEM NO. 3<LEVEL >= 0.0000 (BOTH WALLS)  
 ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)  
 ITEM NO. 5<GAMMAD >= 19.000 (BOTH WALLS)  
 ITEM NO. 6<GAMMAB >= 10.000 (BOTH WALLS)  
 ITEM NO. 7<GAMMAW >= 10.000 (BOTH WALLS)  
 ITEM NO. 9<U-FRICT >= 37.000 (BOTH WALLS)  
 ITEM NO. 10<U-KA >= 0.24900 WALL NO. 1  
 ITEM NO. 11<U-KP >= 6.7380 WALL NO. 1  
 ITEM NO. 12<K0-NC >= 0.50000 (BOTH WALLS)  
 ITEM NO. 13<NEXP >= 0.50000 (BOTH WALLS)  
 ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)  
 ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)  
 ITEM NO. 17<EVC >= 50000. (BOTH WALLS)  
 ITEM NO. 18<EUR >= 0.15000E+06 (BOTH WALLS)  
 ITEM NO. 27<U-PERM >= 0.10000E-03 (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 >= 37.000 (BOTH WALLS)  
 ITEM NO. 60<D-KA >= 0.24900 WALL NO. 1  
 ITEM NO. 61<D-KP >= 6.7380 WALL NO. 1  
 ITEM NO. 77<D-PERM >= 0.10000E-03 (BOTH WALLS)

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

ITEM NO. 1<NAME >= 19.000 (BOTH WALLS)  
 ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)  
 ITEM NO. 3<LEVEL >= -12.000 (BOTH WALLS)  
 ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)  
 ITEM NO. 5<GAMMAD >= 18.500 (BOTH WALLS)  
 ITEM NO. 6<GAMMAB >= 9.0000 (BOTH WALLS)  
 ITEM NO. 7<GAMMAW >= 10.000 (BOTH WALLS)  
 ITEM NO. 8<U-COHE >= 5.0000 (BOTH WALLS)  
 ITEM NO. 9<U-FRICT >= 26.000 (BOTH WALLS)  
 ITEM NO. 10<U-KA >= 0.39000 WALL NO. 1  
 ITEM NO. 11<U-KP >= 3.4040 WALL NO. 1  
 ITEM NO. 12<K0-NC >= 0.50000 (BOTH WALLS)  
 ITEM NO. 13<NEXP >= 0.50000 (BOTH WALLS)  
 ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)  
 ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)  
 ITEM NO. 17<EVC >= 30000. (BOTH WALLS)  
 ITEM NO. 18<EUR >= 90000. (BOTH WALLS)  
 ITEM NO. 27<U-PERM >= 0.10000E-03 (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 >= 5.0000 (BOTH WALLS)  
 ITEM NO. 59<D-FRICT >= 26.000 (BOTH WALLS)  
 ITEM NO. 60<D-KA >= 0.39000 WALL NO. 1  
 ITEM NO. 61<D-KP >= 3.4040 WALL NO. 1  
 ITEM NO. 77<D-PERM >= 0.10000E-03 (BOTH WALLS)

LAYER DESCRIPTORS FOR STEP NO. 5

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

ITEM NO. 1<NAME >= 18.000 (BOTH WALLS)  
 ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)  
 ITEM NO. 3<LEVEL >= 0.0000 (BOTH WALLS)  
 ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)  
 ITEM NO. 5<GAMMAD >= 19.000 (BOTH WALLS)  
 ITEM NO. 6<GAMMAB >= 10.000 (BOTH WALLS)  
 ITEM NO. 7<GAMMAW >= 10.000 (BOTH WALLS)  
 ITEM NO. 9<U-FRICT >= 37.000 (BOTH WALLS)  
 ITEM NO. 10<U-KA >= 0.24900 WALL NO. 1  
 ITEM NO. 11<U-KP >= 6.7380 WALL NO. 1  
 ITEM NO. 12<K0-NC >= 0.50000 (BOTH WALLS)  
 ITEM NO. 13<NEXP >= 0.50000 (BOTH WALLS)  
 ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)  
 ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)  
 ITEM NO. 17<EVC >= 50000. (BOTH WALLS)  
 ITEM NO. 18<EUR >= 0.15000E+06 (BOTH WALLS)  
 ITEM NO. 27<U-PERM >= 0.10000E-03 (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 >= 37.000 (BOTH WALLS)  
 ITEM NO. 60<D-KA >= 0.24900 WALL NO. 1  
 ITEM NO. 61<D-KP >= 6.7380 WALL NO. 1  
 ITEM NO. 77<D-PERM >= 0.10000E-03 (BOTH WALLS)

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

ITEM NO. 1<NAME >= 19.000 (BOTH WALLS)  
 ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)  
 ITEM NO. 3<LEVEL >= -12.000 (BOTH WALLS)  
 ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)

ITEM NO. 5<GAMMAD >= 18.500 (BOTH WALLS)  
ITEM NO. 6<GAMMAB >= 9.0000 (BOTH WALLS)  
ITEM NO. 7<GAMMAW >= 10.000 (BOTH WALLS)  
ITEM NO. 8<U-COHE >= 5.0000 (BOTH WALLS)  
ITEM NO. 9<U-FRICT >= 26.000 (BOTH WALLS)  
ITEM NO. 10<U-KA >= 0.39000 WALL NO. 1  
ITEM NO. 11<U-KP >= 3.4040 WALL NO. 1  
ITEM NO. 12<K0-NC >= 0.50000 (BOTH WALLS)  
ITEM NO. 13<NEXP >= 0.50000 (BOTH WALLS)  
ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)  
ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)  
ITEM NO. 17<EVC >= 30000. (BOTH WALLS)  
ITEM NO. 18<EUR >= 90000. (BOTH WALLS)  
ITEM NO. 27<U-PERM >= 0.10000E-03 (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 >= 5.0000 (BOTH WALLS)  
ITEM NO. 59<D-FRICT >= 26.000 (BOTH WALLS)  
ITEM NO. 60<D-KA >= 0.39000 WALL NO. 1  
ITEM NO. 61<D-KP >= 3.4040 WALL NO. 1  
ITEM NO. 77<D-PERM >= 0.10000E-03 (BOTH WALLS)

LAYER DESCRIPTORS FOR STEP NO. 6

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

ITEM NO. 1<NAME >= 18.000 (BOTH WALLS)  
ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)  
ITEM NO. 3<LEVEL >= 0.0000 (BOTH WALLS)  
ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)  
ITEM NO. 5<GAMMAD >= 19.000 (BOTH WALLS)  
ITEM NO. 6<GAMMAB >= 10.000 (BOTH WALLS)  
ITEM NO. 7<GAMMAW >= 10.000 (BOTH WALLS)  
ITEM NO. 9<U-FRICT >= 37.000 (BOTH WALLS)  
ITEM NO. 10<U-KA >= 0.24900 WALL NO. 1  
ITEM NO. 11<U-KP >= 6.7380 WALL NO. 1  
ITEM NO. 12<K0-NC >= 0.50000 (BOTH WALLS)  
ITEM NO. 13<NEXP >= 0.50000 (BOTH WALLS)  
ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)  
ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)  
ITEM NO. 17<EVC >= 50000. (BOTH WALLS)  
ITEM NO. 18<EUR >= 0.15000E+06 (BOTH WALLS)  
ITEM NO. 27<U-PERM >= 0.10000E-03 (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 >= 37.000 (BOTH WALLS)  
ITEM NO. 60<D-KA >= 0.24900 WALL NO. 1  
ITEM NO. 61<D-KP >= 6.7380 WALL NO. 1  
ITEM NO. 77<D-PERM >= 0.10000E-03 (BOTH WALLS)

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

ITEM NO. 1<NAME >= 19.000 (BOTH WALLS)  
ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)  
ITEM NO. 3<LEVEL >= -12.000 (BOTH WALLS)  
ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)  
ITEM NO. 5<GAMMAD >= 18.500 (BOTH WALLS)  
ITEM NO. 6<GAMMAB >= 9.0000 (BOTH WALLS)  
ITEM NO. 7<GAMMAW >= 10.000 (BOTH WALLS)  
ITEM NO. 8<U-COHE >= 5.0000 (BOTH WALLS)  
ITEM NO. 9<U-FRICT >= 26.000 (BOTH WALLS)  
ITEM NO. 10<U-KA >= 0.39000 WALL NO. 1  
ITEM NO. 11<U-KP >= 3.4040 WALL NO. 1  
ITEM NO. 12<K0-NC >= 0.50000 (BOTH WALLS)  
ITEM NO. 13<NEXP >= 0.50000 (BOTH WALLS)  
ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)  
ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)  
ITEM NO. 17<EVC >= 30000. (BOTH WALLS)  
ITEM NO. 18<EUR >= 90000. (BOTH WALLS)  
ITEM NO. 27<U-PERM >= 0.10000E-03 (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 >= 5.0000 (BOTH WALLS)  
ITEM NO. 59<D-FRICT >= 26.000 (BOTH WALLS)  
ITEM NO. 60<D-KA >= 0.39000 WALL NO. 1  
ITEM NO. 61<D-KP >= 3.4040 WALL NO. 1  
ITEM NO. 77<D-PERM >= 0.10000E-03 (BOTH WALLS)

LAYER DESCRIPTORS FOR STEP NO. 7

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 1 FOR STEP NO. 7

ITEM NO. 1<NAME >= 18.000 (BOTH WALLS)  
ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)  
ITEM NO. 3<LEVEL >= 0.0000 (BOTH WALLS)  
ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)  
ITEM NO. 5<GAMMAD >= 19.000 (BOTH WALLS)  
ITEM NO. 6<GAMMAB >= 10.000 (BOTH WALLS)  
ITEM NO. 7<GAMMAW >= 10.000 (BOTH WALLS)

ITEM NO.	9<U-FRICT	>= 37.000	(BOTH WALLS)	
ITEM NO.	10<U-KA	>= 0.24900	WALL NO.	1
ITEM NO.	11<U-KP	>= 6.7380	WALL NO.	1
ITEM NO.	12<K0-NC	>= 0.50000	(BOTH WALLS)	
ITEM NO.	13<NEXP	>= 0.50000	(BOTH WALLS)	
ITEM NO.	14<OCR	>= 1.0000	(BOTH WALLS)	
ITEM NO.	16<MODEL	>= 1.0000	(BOTH WALLS)	
ITEM NO.	17<EVC	>= 50000.	(BOTH WALLS)	
ITEM NO.	18<EUR	>= 0.15000E+06	(BOTH WALLS)	
ITEM NO.	27<U-PERM	>= 0.10000E-03	(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	>= 37.000	(BOTH WALLS)	
ITEM NO.	60<D-KA	>= 0.24900	WALL NO.	1
ITEM NO.	61<D-KP	>= 6.7380	WALL NO.	1
ITEM NO.	77<D-PERM	>= 0.10000E-03	(BOTH WALLS)	

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 2 FOR STEP NO. 7

ITEM NO.	1<NAME	>= 19.000	(BOTH WALLS)	
ITEM NO.	2<NATURE	>= 1.0000	(BOTH WALLS)	
ITEM NO.	3<LEVEL	>= -12.000	(BOTH WALLS)	
ITEM NO.	4<WALL	>= 1.0000	(BOTH WALLS)	
ITEM NO.	5<GAMMAD	>= 18.500	(BOTH WALLS)	
ITEM NO.	6<GAMMAB	>= 9.0000	(BOTH WALLS)	
ITEM NO.	7<GAMMAW	>= 10.000	(BOTH WALLS)	
ITEM NO.	8<U-COHE	>= 5.0000	(BOTH WALLS)	
ITEM NO.	9<U-FRICT	>= 26.000	(BOTH WALLS)	
ITEM NO.	10<U-KA	>= 0.39000	WALL NO.	1
ITEM NO.	11<U-KP	>= 3.4040	WALL NO.	1
ITEM NO.	12<K0-NC	>= 0.50000	(BOTH WALLS)	
ITEM NO.	13<NEXP	>= 0.50000	(BOTH WALLS)	
ITEM NO.	14<OCR	>= 1.0000	(BOTH WALLS)	
ITEM NO.	16<MODEL	>= 1.0000	(BOTH WALLS)	
ITEM NO.	17<EVC	>= 30000.	(BOTH WALLS)	
ITEM NO.	18<EUR	>= 90000.	(BOTH WALLS)	
ITEM NO.	27<U-PERM	>= 0.10000E-03	(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	>= 5.0000	(BOTH WALLS)	
ITEM NO.	59<D-FRICT	>= 26.000	(BOTH WALLS)	
ITEM NO.	60<D-KA	>= 0.39000	WALL NO.	1
ITEM NO.	61<D-KP	>= 3.4040	WALL NO.	1
ITEM NO.	77<D-PERM	>= 0.10000E-03	(BOTH WALLS)	

DEFAULT WATER UNIT WEIGHT = 10.000  
 AVERAGED ON 14 VALUES



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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
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NewProject.BaseDesignSection_28.A1M1R1_1757
Exe Time :24 May 2018      18:25:47

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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           0.000      0.000
Z-EXCAVATION   0.000      0.000
Z-WATER_TABLE  0.000      -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           0.000      0.000
Z-EXCAVATION   -1.000      0.000
Z-WATER_TABLE  0.000      -0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL  0.000      0.000
ZQ             0.000      0.000
DZW_OF_THE_WATER_TABLE  1.000      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

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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	0.000	0.000
Z-EXCAVATION	-4.500	0.000
Z-WATER_TABLE	0.000	-0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL	0.000	0.000
ZQ	0.000	0.000
DZW_OF_THE_WATER_TABLE	4.500	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

STEP NO. 7

	LEFT WALL	RIGHT WALL
Y	0.000	-0.9990E+30
Z-PC	0.000	0.000
Z-EXCAVATION	-4.500	0.000
Z-WATER_TABLE	0.000	-0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL	0.000	0.000
ZQ	0.000	0.000
DZW_OF_THE_WATER_TABLE	4.500	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   7

LEFT-HAND WALL

LOWER LEVEL           -16.00000  
UPPER LEVEL            0.00000

RIGHT-HAND WALL

LOWER LEVEL           -16.00000  
UPPER LEVEL            0.00000

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION *Build date:Jul 11, 2017* |
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NewProject.BaseDesignSection_28.A1M1R1_1757
Exe Time :24 May 2018      18:25:47

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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) 1.0000000000000000  
FOUNDATION WIDTH (B) 11.7500000000000000  
ZETA-F..... 0.0000000000000000E+000  
Q-F ..... 5.7690000000000000  
BETA ..... 45.0000000000000000  
BEHAVIOUR (0=FREE, 1=REFLECTING) 0.0000000000000000E+000

ELEMENT GROUPS BACKUP AREA CAN STAY IN CORE AT  
POSITION 4763

NO. OF D.P.W FOR THIS AREA 9554  
MAX NO. OF D.P.W. AVAILABLE 81920  
\*\* MAX NO OF ITERATIONS SET TO 40

```

ITER 0 RNORM = 0.000 RMNORM= 0.000
RINORM=0.1223E+06 RIMNOR= 0.000
RENORM=0.2842E-27 REMNOR= 0.000 RATIO =0.4820E-16 TOLER =0.1000E-03 CONVERGED !
RFMAX = 47.09 RMMAX = 0.000
RTSMAL=0.1000E-03 RMSMAL= 0.000
RDT =0.1223E+06 RDR = 0.000
RATIOT=0.4820E-16 RATIO= 0.000
MAX UN=0.7105E-14 IEQ= 149 NODE 75 DOF 1 Y-DISPL.F
MIN UN=-.7105E-14 IEQ= 135 NODE 68 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

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ITER 1 RNORM = 0.000 RMNORM= 0.000
RINORM=0.1223E+06 RIMNOR= 0.000
RENORM=0.1901E-29 REMNOR=0.1400E-52 RATIO =0.3943E-17 TOLER =0.1000E-03 CONVERGED !
RFMAX = 47.09 RMMAX = 0.000
RTSMAL=0.1000E-03 RMSMAL= 0.000
RDT =0.1223E+06 RDR = 0.000
RATIOT=0.3943E-17 RATIO= 0.000
MAX UN=0.2381E-15 IEQ= 63 NODE 32 DOF 1 Y-DISPL.F
MIN UN=-.3500E-16 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=0.1223E+06 RIMNOR= 0.000
RENORM=0.1742E-29 REMNOR=0.3776E-52 RATIO =0.3774E-17 TOLER =0.1000E-03 CONVERGED !
RFMAX = 47.09 RMMAX = 0.000
RTSMAL=0.1000E-03 RMSMAL= 0.000
RDT =0.1223E+06 RDR = 0.000
RATIOT=0.3774E-17 RATIO= 0.000
MAX UN=0.2185E-15 IEQ= 69 NODE 35 DOF 1 Y-DISPL.F
MIN UN=-.4160E-18 IEQ= 161 NODE 81 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION *Build date:Jul 11, 2017*          |
|                                                                                                                                            |
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|          NewProject.BaseDesignSection_28.A1M1R1_1757                                          |
|          Exe Time :24 May 2018      18:25:47                                                |
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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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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*          |
|                                                                                                                                           |
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|          NewProject.BaseDesignSection_28.A1M1R1_1757          |
|          Exe Time :24 May 2018          18:25:47          |
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New Project

STRESS RESULTS FOR GROUP NO. 1

0\_L  
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 81  
CURRENT TIME IS 1.0000

HARDENING 2D SOIL ELEMENT

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

EL * FACTOR	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
1 D	0.000	3.1789E-21	0.000	0.000	0.000	0.000	V-C	4.7008E+04	0.000	0.000	
1.000	1.000	0.000	0.000	0.000	Ug5_2_8_L_0						
2 D	0.7316	1.5282E-21	2.009	1.658	2.009	1.658	V-C	4.7008E+04	-0.2000	2.000	
1.000	1.000	3.658	0.000	0.000	Ug5_2_8_L_0						
3 D	1.443	-1.2238E-22	4.065	3.217	4.065	3.217	V-C	4.7008E+04	-0.4000	4.000	
1.000	1.000	7.217	0.000	0.000	Ug5_2_8_L_0						
4 D	2.126	-1.7729E-21	6.182	4.630	6.182	4.630	V-C	4.7008E+04	-0.6000	6.000	
1.000	1.000	10.63	0.000	0.000	Ug5_2_8_L_0						
5 D	2.781	-3.4230E-21	8.343	5.905	8.343	5.905	V-C	4.7008E+04	-0.8000	8.000	
1.000	1.000	13.90	0.000	0.000	Ug5_2_8_L_0						
6 D	3.415	-5.0720E-21	10.52	7.074	10.52	7.074	V-C	4.7008E+04	-1.000	10.00	
1.000	1.000	17.07	0.000	0.000	Ug5_2_8_L_0						
7 D	4.034	-6.7170E-21	12.70	8.168	12.70	8.168	V-C	4.7008E+04	-1.200	12.00	
1.000	1.000	20.17	0.000	0.000	Ug5_2_8_L_0						
8 D	4.643	-8.3546E-21	15.01	9.214	15.01	9.214	V-C	4.7008E+04	-1.400	14.00	
1.000	1.000	23.21	0.000	0.000	Ug5_2_8_L_0						
9 D	5.246	-9.9810E-21	17.36	10.23	17.36	10.23	V-C	4.7008E+04	-1.600	16.00	
1.000	1.000	26.23	0.000	0.000	Ug5_2_8_L_0						
10 D	5.844	-1.1592E-20	19.46	11.22	19.46	11.22	V-C	4.7008E+04	-1.800	18.00	
1.000	1.000	29.22	0.000	0.000	Ug5_2_8_L_0						
11 D	6.440	-1.3183E-20	21.71	12.20	21.71	12.20	V-C	4.7008E+04	-2.000	20.00	
1.000	1.000	32.20	0.000	0.000	Ug5_2_8_L_0						
12 D	7.034	-1.4748E-20	23.93	13.17	23.93	13.17	V-C	4.7008E+04	-2.200	22.00	
1.000	1.000	35.17	0.000	0.000	Ug5_2_8_L_0						
13 D	7.627	-1.6283E-20	25.97	14.14	25.97	14.14	V-C	4.7008E+04	-2.400	24.00	
1.000	1.000	38.14	0.000	0.000	Ug5_2_8_L_0						
14 D	8.219	-1.7780E-20	28.14	15.10	28.14	15.10	V-C	4.7008E+04	-2.600	26.00	
1.000	1.000	41.10	0.000	0.000	Ug5_2_8_L_0						
15 D	8.811	-1.9233E-20	30.29	16.05	30.29	16.05	V-C	4.7008E+04	-2.800	28.00	
1.000	1.000	44.05	0.000	0.000	Ug5_2_8_L_0						
16 D	9.402	-2.0634E-20	32.42	17.01	32.42	17.01	V-C	4.7008E+04	-3.000	30.00	
1.000	1.000	47.01	0.000	0.000	Ug5_2_8_L_0						
17 D	9.993	-2.1974E-20	34.43	17.97	34.43	17.97	V-C	4.7008E+04	-3.200	32.00	
1.000	1.000	49.97	0.000	0.000	Ug5_2_8_L_0						
18 D	10.58	-2.3245E-20	36.54	18.92	36.54	18.92	V-C	4.7008E+04	-3.400	34.00	
1.000	1.000	52.92	0.000	0.000	Ug5_2_8_L_0						
19 D	11.17	-2.4437E-20	38.64	19.87	38.64	19.87	V-C	4.7008E+04	-3.600	36.00	
1.000	1.000	55.87	0.000	0.000	Ug5_2_8_L_0						
20 D	11.77	-2.5539E-20	40.64	20.83	40.64	20.83	V-C	4.7008E+04	-3.800	38.00	
1.000	1.000	58.83	0.000	0.000	Ug5_2_8_L_0						
21 D	12.36	-2.6549E-20	42.73	21.78	42.73	21.78	V-C	4.7008E+04	-4.000	40.00	
1.000	1.000	61.78	0.000	0.000	Ug5_2_8_L_0						
22 D	12.95	-2.7465E-20	44.80	22.74	44.80	22.74	V-C	4.7008E+04	-4.200	42.00	
1.000	1.000	64.74	0.000	0.000	Ug5_2_8_L_0						
23 D	13.54	-2.8293E-20	46.80	23.69	46.80	23.69	V-C	4.7008E+04	-4.400	44.00	
1.000	1.000	67.69	0.000	0.000	Ug5_2_8_L_0						
24 D	14.13	-2.9038E-20	48.87	24.65	48.87	24.65	V-C	4.7008E+04	-4.600	46.00	
1.000	1.000	70.65	0.000	0.000	Ug5_2_8_L_0						
25 D	14.72	-2.9704E-20	50.93	25.61	50.93	25.61	V-C	4.7008E+04	-4.800	48.00	
1.000	1.000	73.61	0.000	0.000	Ug5_2_8_L_0						
26 D	15.31	-3.0294E-20	52.99	26.56	52.99	26.56	V-C	4.7008E+04	-5.000	50.00	
1.000	1.000	76.56	0.000	0.000	Ug5_2_8_L_0						
27 D	15.90	-3.0810E-20	54.98	27.52	54.98	27.52	V-C	4.7008E+04	-5.200	52.00	
1.000	1.000	79.52	0.000	0.000	Ug5_2_8_L_0						
28 D	16.50	-3.1254E-20	57.03	28.48	57.03	28.48	V-C	4.7008E+04	-5.400	54.00	
1.000	1.000	82.48	0.000	0.000	Ug5_2_8_L_0						
29 D	17.09	-3.1626E-20	59.08	29.44	59.08	29.44	V-C	4.7008E+04	-5.600	56.00	
1.000	1.000	85.44	0.000	0.000	Ug5_2_8_L_0						
30 D	17.68	-3.1923E-20	61.07	30.40	61.07	30.40	V-C	4.7008E+04	-5.800	58.00	
1.000	1.000	88.40	0.000	0.000	Ug5_2_8_L_0						
31 D	18.27	-3.2144E-20	63.11	31.36	63.11	31.36	V-C	4.7008E+04	-6.000	60.00	
1.000	1.000	91.36	0.000	0.000	Ug5_2_8_L_0						
32 D	18.87	-3.2285E-20	65.16	32.33	65.16	32.33	V-C	4.7008E+04	-6.200	62.00	
1.000	1.000	94.33	0.000	0.000	Ug5_2_8_L_0						
33 D	19.46	-3.2340E-20	67.14	33.29	67.14	33.29	V-C	4.7008E+04	-6.400	64.00	

1.000	1.000	97.29	0.000	0.000	Ug5_2_8_L_0					
34 D	20.05	-3.2307E-20	69.18	34.25	69.18	34.25	V-C	4.7008E+04	-6.600	66.00
1.000	1.000	100.3	0.000	0.000	Ug5_2_8_L_0					
35 D	20.64	-3.2196E-20	71.22	35.22	71.22	35.22	V-C	4.7008E+04	-6.800	68.00
1.000	1.000	103.2	0.000	0.000	Ug5_2_8_L_0					
36 D	21.24	-3.2017E-20	73.26	36.18	73.26	36.18	V-C	4.7008E+04	-7.000	70.00
1.000	1.000	106.2	0.000	0.000	Ug5_2_8_L_0					
37 D	21.83	-3.1781E-20	75.24	37.15	75.24	37.15	V-C	4.7008E+04	-7.200	72.00
1.000	1.000	109.2	0.000	0.000	Ug5_2_8_L_0					
38 D	22.42	-3.1498E-20	77.27	38.12	77.27	38.12	V-C	4.7008E+04	-7.400	74.00
1.000	1.000	112.1	0.000	0.000	Ug5_2_8_L_0					
39 D	23.02	-3.1175E-20	79.31	39.09	79.31	39.09	V-C	4.7008E+04	-7.600	76.00
1.000	1.000	115.1	0.000	0.000	Ug5_2_8_L_0					
40 D	23.61	-3.0818E-20	81.29	40.06	81.29	40.06	V-C	4.7008E+04	-7.800	78.00
1.000	1.000	118.1	0.000	0.000	Ug5_2_8_L_0					
41 D	24.21	-3.0430E-20	83.32	41.03	83.32	41.03	V-C	4.7008E+04	-8.000	80.00
1.000	1.000	121.0	0.000	0.000	Ug5_2_8_L_0					
42 D	24.80	-3.0002E-20	85.35	42.00	85.35	42.00	V-C	4.7008E+04	-8.200	82.00
1.000	1.000	124.0	0.000	0.000	Ug5_2_8_L_0					
43 D	25.39	-2.9532E-20	87.33	42.97	87.33	42.97	V-C	4.7008E+04	-8.400	84.00
1.000	1.000	127.0	0.000	0.000	Ug5_2_8_L_0					
44 D	25.99	-2.9026E-20	89.36	43.94	89.36	43.94	V-C	4.7008E+04	-8.600	86.00
1.000	1.000	129.9	0.000	0.000	Ug5_2_8_L_0					
45 D	26.58	-2.8498E-20	91.39	44.91	91.39	44.91	V-C	4.7008E+04	-8.800	88.00
1.000	1.000	132.9	0.000	0.000	Ug5_2_8_L_0					
46 D	27.18	-2.7951E-20	93.41	45.89	93.41	45.89	V-C	4.7008E+04	-9.000	90.00
1.000	1.000	135.9	0.000	0.000	Ug5_2_8_L_0					
47 D	27.77	-2.7383E-20	95.40	46.86	95.40	46.86	V-C	4.7008E+04	-9.200	92.00
1.000	1.000	138.9	0.000	0.000	Ug5_2_8_L_0					
48 D	28.37	-2.6791E-20	97.42	47.84	97.42	47.84	V-C	4.7008E+04	-9.400	94.00
1.000	1.000	141.8	0.000	0.000	Ug5_2_8_L_0					
49 D	28.96	-2.6171E-20	99.44	48.82	99.44	48.82	V-C	4.7008E+04	-9.600	96.00
1.000	1.000	144.8	0.000	0.000	Ug5_2_8_L_0					
50 D	29.56	-2.5518E-20	101.4	49.79	101.4	49.79	V-C	4.7008E+04	-9.800	98.00
1.000	1.000	147.8	0.000	0.000	Ug5_2_8_L_0					
51 D	30.15	-2.4826E-20	103.4	50.77	103.4	50.77	V-C	4.7008E+04	-10.00	100.00
1.000	1.000	150.8	0.000	0.000	Ug5_2_8_L_0					
52 D	30.75	-2.4089E-20	105.5	51.75	105.5	51.75	V-C	4.7008E+04	-10.20	102.0
1.000	1.000	153.7	0.000	0.000	Ug5_2_8_L_0					
53 D	31.35	-2.3300E-20	107.5	52.73	107.5	52.73	V-C	4.7008E+04	-10.40	104.0
1.000	1.000	156.7	0.000	0.000	Ug5_2_8_L_0					
54 D	31.94	-2.2469E-20	109.5	53.71	109.5	53.71	V-C	4.7008E+04	-10.60	106.0
1.000	1.000	159.7	0.000	0.000	Ug5_2_8_L_0					
55 D	32.54	-2.1604E-20	111.5	54.69	111.5	54.69	V-C	4.7008E+04	-10.80	108.0
1.000	1.000	162.7	0.000	0.000	Ug5_2_8_L_0					
56 D	33.13	-2.0716E-20	113.5	55.67	113.5	55.67	V-C	4.7008E+04	-11.00	110.0
1.000	1.000	165.7	0.000	0.000	Ug5_2_8_L_0					
57 D	33.73	-1.9812E-20	115.5	56.65	115.5	56.65	V-C	4.7008E+04	-11.20	112.0
1.000	1.000	168.6	0.000	0.000	Ug5_2_8_L_0					
58 D	34.33	-1.8901E-20	117.5	57.63	117.5	57.63	V-C	4.7008E+04	-11.40	114.0
1.000	1.000	171.6	0.000	0.000	Ug5_2_8_L_0					
59 D	34.92	-1.7989E-20	119.5	58.61	119.5	58.61	V-C	4.7008E+04	-11.60	116.0
1.000	1.000	174.6	0.000	0.000	Ug5_2_8_L_0					
60 D	35.52	-1.7082E-20	121.5	59.60	121.5	59.60	V-C	4.7008E+04	-11.80	118.0
1.000	1.000	177.6	0.000	0.000	Ug5_2_8_L_0					
61 D	36.12	-1.6185E-20	123.5	60.58	123.5	60.58	V-C	4.7008E+04	-12.00	120.0
1.000	1.000	180.6	0.000	0.000	Ug5_2_8_L_0					
62 D	36.69	-1.5302E-20	125.4	61.46	125.4	61.46	V-C	2.2505E+04	-12.20	122.0
1.000	1.000	183.5	0.000	0.000	Ug6_741_743_L_0					
63 D	37.27	-1.4438E-20	127.2	62.35	127.2	62.35	V-C	2.2505E+04	-12.40	124.0
1.000	1.000	186.3	0.000	0.000	Ug6_741_743_L_0					
64 D	37.85	-1.3595E-20	129.0	63.23	129.0	63.23	V-C	2.2505E+04	-12.60	126.0
1.000	1.000	189.2	0.000	0.000	Ug6_741_743_L_0					
65 D	38.42	-1.2776E-20	130.7	64.12	130.7	64.12	V-C	2.2505E+04	-12.80	128.0
1.000	1.000	192.1	0.000	0.000	Ug6_741_743_L_0					
66 D	39.00	-1.1985E-20	132.5	65.01	132.5	65.01	V-C	2.2505E+04	-13.00	130.0
1.000	1.000	195.0	0.000	0.000	Ug6_741_743_L_0					
67 D	39.58	-1.1224E-20	134.3	65.89	134.3	65.89	V-C	2.2505E+04	-13.20	132.0
1.000	1.000	197.9	0.000	0.000	Ug6_741_743_L_0					
68 D	40.16	-1.0494E-20	136.0	66.78	136.0	66.78	V-C	2.2505E+04	-13.40	134.0
1.000	1.000	200.8	0.000	0.000	Ug6_741_743_L_0					
69 D	40.73	-9.7915E-21	137.8	67.67	137.8	67.67	V-C	2.2505E+04	-13.60	136.0
1.000	1.000	203.7	0.000	0.000	Ug6_741_743_L_0					
70 D	41.31	-9.0831E-21	139.6	68.55	139.6	68.55	V-C	2.2505E+04	-13.80	138.0
1.000	1.000	206.6	0.000	0.000	Ug6_741_743_L_0					
71 D	41.89	-8.3367E-21	141.3	69.44	141.3	69.44	V-C	2.2505E+04	-14.00	140.0
1.000	1.000	209.4	0.000	0.000	Ug6_741_743_L_0					
72 D	42.47	-7.5468E-21	143.1	70.33	143.1	70.33	V-C	2.2505E+04	-14.20	142.0
1.000	1.000	212.3	0.000	0.000	Ug6_741_743_L_0					
73 D	43.04	-6.7142E-21	144.9	71.22	144.9	71.22	V-C	2.2505E+04	-14.40	144.0
1.000	1.000	215.2	0.000	0.000	Ug6_741_743_L_0					
74 D	43.62	-5.8395E-21	146.6	72.11	146.6	72.11	V-C	2.2505E+04	-14.60	146.0
1.000	1.000	218.1	0.000	0.000	Ug6_741_743_L_0					
75 D	44.20	-4.9233E-21	148.4	73.00	148.4	73.00	V-C	2.2505E+04	-14.80	148.0
1.000	1.000	221.0	0.000	0.000	Ug6_741_743_L_0					
76 D	44.78	-3.9728E-21	150.2	73.89	150.2	73.89	V-C	2.2505E+04	-15.00	150.0
1.000	1.000	223.9	0.000	0.000	Ug6_741_743_L_0					
77 D	45.36	-3.0152E-21	151.9	74.78	151.9	74.78	V-C	2.2505E+04	-15.20	152.0
1.000	1.000	226.8	0.000	0.000	Ug6_741_743_L_0					
78 D	45.93	-2.0574E-21	153.7	75.67	153.7	75.67	V-C	2.2505E+04	-15.40	154.0
1.000	1.000	229.7	0.000	0.000	Ug6_741_743_L_0					



79 D	46.51	-1.0995E-21	155.5	76.56	155.5	76.56	V-C	2.2505E+04	-15.60	156.0
1.000	1.000	232.6	0.000	0.000	Ug6_741_743_L_0					
80 D	47.09	-1.4164E-22	157.3	77.45	157.3	77.45	V-C	2.2505E+04	-15.80	158.0
1.000	1.000	235.4	0.000	0.000	Ug6_741_743_L_0					
81 D	23.83	8.1630E-22	159.0	78.34	159.0	78.34	V-C	2.2505E+04	-16.00	160.0
1.000	1.000	238.3	0.000	0.000	Ug6_741_743_L_0					

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|                PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*                |
|                                                                                                                                           |
|                                                                                                                                           |
|                NewProject.BaseDesignSection_28.A1M1R1_1757                                                                           |
|                Exe Time :24 May 2018  18:25:47                                                                                       |
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New Project

STRESS RESULTS FOR GROUP NO. 2

0\_R :  
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 81  
CURRENT TIME IS 1.0000

HARDENING 2D SOIL ELEMENT

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

EL * FACTOR	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
1 D	0.000	-3.1789E-21	0.000	0.000	0.000	0.000	V-C	2.3371E+04	0.000	0.000	
1.000	1.000	0.000	0.000	0.000	Ug5_2_8_L_0						
2 D	0.7316	-1.5282E-21	2.000	1.658	2.000	1.658	V-C	2.3371E+04	-0.2000	2.000	
1.000	1.000	3.658	0.000	0.000	Ug5_2_8_L_0						
3 D	1.443	1.2238E-22	4.000	3.217	4.000	3.217	V-C	2.3371E+04	-0.4000	4.000	
1.000	1.000	7.217	0.000	0.000	Ug5_2_8_L_0						
4 D	2.126	1.7729E-21	6.000	4.630	6.000	4.630	V-C	2.3371E+04	-0.6000	6.000	
1.000	1.000	10.63	0.000	0.000	Ug5_2_8_L_0						
5 D	2.781	3.4230E-21	8.000	5.905	8.000	5.905	V-C	2.3371E+04	-0.8000	8.000	
1.000	1.000	13.90	0.000	0.000	Ug5_2_8_L_0						
6 D	3.415	5.0720E-21	10.00	7.074	10.00	7.074	V-C	2.3371E+04	-1.000	10.00	
1.000	1.000	17.07	0.000	0.000	Ug5_2_8_L_0						
7 D	4.034	6.7170E-21	12.00	8.168	12.00	8.168	V-C	2.3371E+04	-1.200	12.00	
1.000	1.000	20.17	0.000	0.000	Ug5_2_8_L_0						
8 D	4.643	8.3546E-21	14.00	9.214	14.00	9.214	V-C	2.3371E+04	-1.400	14.00	
1.000	1.000	23.21	0.000	0.000	Ug5_2_8_L_0						
9 D	5.246	9.9810E-21	16.00	10.23	16.00	10.23	V-C	2.3371E+04	-1.600	16.00	
1.000	1.000	26.23	0.000	0.000	Ug5_2_8_L_0						
10 D	5.844	1.1592E-20	18.00	11.22	18.00	11.22	V-C	2.3371E+04	-1.800	18.00	
1.000	1.000	29.22	0.000	0.000	Ug5_2_8_L_0						
11 D	6.440	1.3183E-20	20.00	12.20	20.00	12.20	V-C	2.3371E+04	-2.000	20.00	
1.000	1.000	32.20	0.000	0.000	Ug5_2_8_L_0						
12 D	7.034	1.4748E-20	22.00	13.17	22.00	13.17	V-C	2.3371E+04	-2.200	22.00	
1.000	1.000	35.17	0.000	0.000	Ug5_2_8_L_0						
13 D	7.627	1.6283E-20	24.00	14.14	24.00	14.14	V-C	2.3371E+04	-2.400	24.00	
1.000	1.000	38.14	0.000	0.000	Ug5_2_8_L_0						
14 D	8.219	1.7780E-20	26.00	15.10	26.00	15.10	V-C	2.3371E+04	-2.600	26.00	
1.000	1.000	41.10	0.000	0.000	Ug5_2_8_L_0						
15 D	8.811	1.9233E-20	28.00	16.05	28.00	16.05	V-C	2.3371E+04	-2.800	28.00	
1.000	1.000	44.05	0.000	0.000	Ug5_2_8_L_0						
16 D	9.402	2.0634E-20	30.00	17.01	30.00	17.01	V-C	2.3371E+04	-3.000	30.00	
1.000	1.000	47.01	0.000	0.000	Ug5_2_8_L_0						
17 D	9.993	2.1974E-20	32.00	17.97	32.00	17.97	V-C	2.3371E+04	-3.200	32.00	
1.000	1.000	49.97	0.000	0.000	Ug5_2_8_L_0						
18 D	10.58	2.3245E-20	34.00	18.92	34.00	18.92	V-C	2.3371E+04	-3.400	34.00	
1.000	1.000	52.92	0.000	0.000	Ug5_2_8_L_0						
19 D	11.17	2.4437E-20	36.00	19.87	36.00	19.87	V-C	2.3371E+04	-3.600	36.00	
1.000	1.000	55.87	0.000	0.000	Ug5_2_8_L_0						
20 D	11.77	2.5539E-20	38.00	20.83	38.00	20.83	V-C	2.3371E+04	-3.800	38.00	
1.000	1.000	58.83	0.000	0.000	Ug5_2_8_L_0						
21 D	12.36	2.6549E-20	40.00	21.78	40.00	21.78	V-C	2.3371E+04	-4.000	40.00	
1.000	1.000	61.78	0.000	0.000	Ug5_2_8_L_0						
22 D	12.95	2.7465E-20	42.00	22.74	42.00	22.74	V-C	2.3371E+04	-4.200	42.00	
1.000	1.000	64.74	0.000	0.000	Ug5_2_8_L_0						
23 D	13.54	2.8293E-20	44.00	23.69	44.00	23.69	V-C	2.3371E+04	-4.400	44.00	
1.000	1.000	67.69	0.000	0.000	Ug5_2_8_L_0						
24 D	14.13	2.9038E-20	46.00	24.65	46.00	24.65	V-C	2.3371E+04	-4.600	46.00	
1.000	1.000	70.65	0.000	0.000	Ug5_2_8_L_0						
25 D	14.72	2.9704E-20	48.00	25.61	48.00	25.61	V-C	2.3371E+04	-4.800	48.00	
1.000	1.000	73.61	0.000	0.000	Ug5_2_8_L_0						
26 D	15.31	3.0294E-20	50.00	26.56	50.00	26.56	V-C	2.3371E+04	-5.000	50.00	
1.000	1.000	76.56	0.000	0.000	Ug5_2_8_L_0						
27 D	15.90	3.0810E-20	52.00	27.52	52.00	27.52	V-C	2.3371E+04	-5.200	52.00	
1.000	1.000	79.52	0.000	0.000	Ug5_2_8_L_0						
28 D	16.50	3.1254E-20	54.00	28.48	54.00	28.48	V-C	2.3371E+04	-5.400	54.00	
1.000	1.000	82.48	0.000	0.000	Ug5_2_8_L_0						
29 D	17.09	3.1626E-20	56.00	29.44	56.00	29.44	V-C	2.3371E+04	-5.600	56.00	
1.000	1.000	85.44	0.000	0.000	Ug5_2_8_L_0						
30 D	17.68	3.1923E-20	58.00	30.40	58.00	30.40	V-C	2.3371E+04	-5.800	58.00	
1.000	1.000	88.40	0.000	0.000	Ug5_2_8_L_0						
31 D	18.27	3.2144E-20	60.00	31.36	60.00	31.36	V-C	2.3371E+04	-6.000	60.00	
1.000	1.000	91.36	0.000	0.000	Ug5_2_8_L_0						
32 D	18.87	3.2285E-20	62.00	32.33	62.00	32.33	V-C	2.3371E+04	-6.200	62.00	
1.000	1.000	94.33	0.000	0.000	Ug5_2_8_L_0						
33 D	19.46	3.2340E-20	64.00	33.29	64.00	33.29	V-C	2.3371E+04	-6.400	64.00	

1.000	1.000	97.29	0.000	0.000	Ug5_2_8_L_0					
34 D	20.05	3.2307E-20	66.00	34.25	66.00	34.25	V-C	2.3371E+04	-6.600	66.00
1.000	1.000	100.3	0.000	0.000	Ug5_2_8_L_0					
35 D	20.64	3.2196E-20	68.00	35.22	68.00	35.22	V-C	2.3371E+04	-6.800	68.00
1.000	1.000	103.2	0.000	0.000	Ug5_2_8_L_0					
36 D	21.24	3.2017E-20	70.00	36.18	70.00	36.18	V-C	2.3371E+04	-7.000	70.00
1.000	1.000	106.2	0.000	0.000	Ug5_2_8_L_0					
37 D	21.83	3.1781E-20	72.00	37.15	72.00	37.15	V-C	2.3371E+04	-7.200	72.00
1.000	1.000	109.2	0.000	0.000	Ug5_2_8_L_0					
38 D	22.42	3.1498E-20	74.00	38.12	74.00	38.12	V-C	2.3371E+04	-7.400	74.00
1.000	1.000	112.1	0.000	0.000	Ug5_2_8_L_0					
39 D	23.02	3.1175E-20	76.00	39.09	76.00	39.09	V-C	2.3371E+04	-7.600	76.00
1.000	1.000	115.1	0.000	0.000	Ug5_2_8_L_0					
40 D	23.61	3.0818E-20	78.00	40.06	78.00	40.06	V-C	2.3371E+04	-7.800	78.00
1.000	1.000	118.1	0.000	0.000	Ug5_2_8_L_0					
41 D	24.21	3.0430E-20	80.00	41.03	80.00	41.03	V-C	2.3371E+04	-8.000	80.00
1.000	1.000	121.0	0.000	0.000	Ug5_2_8_L_0					
42 D	24.80	3.0002E-20	82.00	42.00	82.00	42.00	V-C	2.3371E+04	-8.200	82.00
1.000	1.000	124.0	0.000	0.000	Ug5_2_8_L_0					
43 D	25.39	2.9532E-20	84.00	42.97	84.00	42.97	V-C	2.3371E+04	-8.400	84.00
1.000	1.000	127.0	0.000	0.000	Ug5_2_8_L_0					
44 D	25.99	2.9026E-20	86.00	43.94	86.00	43.94	V-C	2.3371E+04	-8.600	86.00
1.000	1.000	129.9	0.000	0.000	Ug5_2_8_L_0					
45 D	26.58	2.8498E-20	88.00	44.91	88.00	44.91	V-C	2.3371E+04	-8.800	88.00
1.000	1.000	132.9	0.000	0.000	Ug5_2_8_L_0					
46 D	27.18	2.7951E-20	90.00	45.89	90.00	45.89	V-C	2.3371E+04	-9.000	90.00
1.000	1.000	135.9	0.000	0.000	Ug5_2_8_L_0					
47 D	27.77	2.7383E-20	92.00	46.86	92.00	46.86	V-C	2.3371E+04	-9.200	92.00
1.000	1.000	138.9	0.000	0.000	Ug5_2_8_L_0					
48 D	28.37	2.6791E-20	94.00	47.84	94.00	47.84	V-C	2.3371E+04	-9.400	94.00
1.000	1.000	141.8	0.000	0.000	Ug5_2_8_L_0					
49 D	28.96	2.6171E-20	96.00	48.82	96.00	48.82	V-C	2.3371E+04	-9.600	96.00
1.000	1.000	144.8	0.000	0.000	Ug5_2_8_L_0					
50 D	29.56	2.5518E-20	98.00	49.79	98.00	49.79	V-C	2.3371E+04	-9.800	98.00
1.000	1.000	147.8	0.000	0.000	Ug5_2_8_L_0					
51 D	30.15	2.4826E-20	100.00	50.77	100.00	50.77	V-C	2.3371E+04	-10.000	100.00
1.000	1.000	150.8	0.000	0.000	Ug5_2_8_L_0					
52 D	30.75	2.4089E-20	102.0	51.75	102.0	51.75	V-C	2.3371E+04	-10.200	102.0
1.000	1.000	153.7	0.000	0.000	Ug5_2_8_L_0					
53 D	31.35	2.3300E-20	104.0	52.73	104.0	52.73	V-C	2.3371E+04	-10.400	104.0
1.000	1.000	156.7	0.000	0.000	Ug5_2_8_L_0					
54 D	31.94	2.2469E-20	106.0	53.71	106.0	53.71	V-C	2.3371E+04	-10.600	106.0
1.000	1.000	159.7	0.000	0.000	Ug5_2_8_L_0					
55 D	32.54	2.1604E-20	108.0	54.69	108.0	54.69	V-C	2.3371E+04	-10.800	108.0
1.000	1.000	162.7	0.000	0.000	Ug5_2_8_L_0					
56 D	33.13	2.0716E-20	110.0	55.67	110.0	55.67	V-C	2.3371E+04	-11.000	110.0
1.000	1.000	165.7	0.000	0.000	Ug5_2_8_L_0					
57 D	33.73	1.9812E-20	112.0	56.65	112.0	56.65	V-C	2.3371E+04	-11.200	112.0
1.000	1.000	168.6	0.000	0.000	Ug5_2_8_L_0					
58 D	34.33	1.8901E-20	114.0	57.63	114.0	57.63	V-C	2.3371E+04	-11.400	114.0
1.000	1.000	171.6	0.000	0.000	Ug5_2_8_L_0					
59 D	34.92	1.7989E-20	116.0	58.61	116.0	58.61	V-C	2.3371E+04	-11.600	116.0
1.000	1.000	174.6	0.000	0.000	Ug5_2_8_L_0					
60 D	35.52	1.7082E-20	118.0	59.60	118.0	59.60	V-C	2.3371E+04	-11.800	118.0
1.000	1.000	177.6	0.000	0.000	Ug5_2_8_L_0					
61 D	36.12	1.6185E-20	120.0	60.58	120.0	60.58	V-C	2.3371E+04	-12.000	120.0
1.000	1.000	180.6	0.000	0.000	Ug5_2_8_L_0					
62 D	36.69	1.5302E-20	121.8	61.46	121.8	61.46	V-C	1.7574E+04	-12.200	122.0
1.000	1.000	183.5	0.000	0.000	Ug6_741_743_L_0					
63 D	37.27	1.4438E-20	123.6	62.35	123.6	62.35	V-C	1.7574E+04	-12.400	124.0
1.000	1.000	186.3	0.000	0.000	Ug6_741_743_L_0					
64 D	37.85	1.3595E-20	125.4	63.23	125.4	63.23	V-C	1.7574E+04	-12.600	126.0
1.000	1.000	189.2	0.000	0.000	Ug6_741_743_L_0					
65 D	38.42	1.2776E-20	127.2	64.12	127.2	64.12	V-C	1.7574E+04	-12.800	128.0
1.000	1.000	192.1	0.000	0.000	Ug6_741_743_L_0					
66 D	39.00	1.1985E-20	129.0	65.01	129.0	65.01	V-C	1.7574E+04	-13.000	130.0
1.000	1.000	195.0	0.000	0.000	Ug6_741_743_L_0					
67 D	39.58	1.1224E-20	130.8	65.89	130.8	65.89	V-C	1.7574E+04	-13.200	132.0
1.000	1.000	197.9	0.000	0.000	Ug6_741_743_L_0					
68 D	40.16	1.0494E-20	132.6	66.78	132.6	66.78	V-C	1.7574E+04	-13.400	134.0
1.000	1.000	200.8	0.000	0.000	Ug6_741_743_L_0					
69 D	40.73	9.7915E-21	134.4	67.67	134.4	67.67	V-C	1.7574E+04	-13.600	136.0
1.000	1.000	203.7	0.000	0.000	Ug6_741_743_L_0					
70 D	41.31	9.0831E-21	136.2	68.55	136.2	68.55	V-C	1.7574E+04	-13.800	138.0
1.000	1.000	206.6	0.000	0.000	Ug6_741_743_L_0					
71 D	41.89	8.3367E-21	138.0	69.44	138.0	69.44	V-C	1.7574E+04	-14.000	140.0
1.000	1.000	209.4	0.000	0.000	Ug6_741_743_L_0					
72 D	42.47	7.5468E-21	139.8	70.33	139.8	70.33	V-C	1.7574E+04	-14.200	142.0
1.000	1.000	212.3	0.000	0.000	Ug6_741_743_L_0					
73 D	43.04	6.7142E-21	141.6	71.22	141.6	71.22	V-C	1.7574E+04	-14.400	144.0
1.000	1.000	215.2	0.000	0.000	Ug6_741_743_L_0					
74 D	43.62	5.8395E-21	143.4	72.11	143.4	72.11	V-C	1.7574E+04	-14.600	146.0
1.000	1.000	218.1	0.000	0.000	Ug6_741_743_L_0					
75 D	44.20	4.9233E-21	145.2	73.00	145.2	73.00	V-C	1.7574E+04	-14.800	148.0
1.000	1.000	221.0	0.000	0.000	Ug6_741_743_L_0					
76 D	44.78	3.9728E-21	147.0	73.89	147.0	73.89	V-C	1.7574E+04	-15.000	150.0
1.000	1.000	223.9	0.000	0.000	Ug6_741_743_L_0					
77 D	45.36	3.0152E-21	148.8	74.78	148.8	74.78	V-C	1.7574E+04	-15.200	152.0
1.000	1.000	226.8	0.000	0.000	Ug6_741_743_L_0					
78 D	45.93	2.0574E-21	150.6	75.67	150.6	75.67	V-C	1.7574E+04	-15.400	154.0
1.000	1.000	229.7	0.000	0.000	Ug6_741_743_L_0					

79 D	46.51	1.0995E-21	152.4	76.56	152.4	76.56	V-C	1.7574E+04	-15.60	156.0
1.000	1.000	232.6	0.000	0.000	Ug6_741_743_L_0					
80 D	47.09	1.4164E-22	154.2	77.45	154.2	77.45	V-C	1.7574E+04	-15.80	158.0
1.000	1.000	235.4	0.000	0.000	Ug6_741_743_L_0					
81 D	23.83	-8.1630E-22	156.0	78.34	156.0	78.34	V-C	1.7574E+04	-16.00	160.0
1.000	1.000	238.3	0.000	0.000	Ug6_741_743_L_0					



70 1.86417E-16-1.86417E-16 1.56720E-15-1.52992E-15  
71 1.51804E-16-1.51804E-16 1.52992E-15-1.49956E-15  
72 1.20720E-16-1.20720E-16 1.49956E-15-1.47542E-15  
73 9.31696E-17-9.31696E-17 1.47542E-15-1.45678E-15  
74 6.91589E-17-6.91589E-17 1.45678E-15-1.44295E-15  
75 7.15412E-15-7.15412E-15 1.44295E-15-1.21261E-17  
76 3.17702E-17-3.17702E-17 1.21261E-17-5.77212E-18  
77 1.83976E-17-1.83976E-17 5.77212E-18-2.09260E-18  
78 8.57518E-18-8.57518E-18 2.09260E-18-3.77560E-19  
79 2.30383E-18-2.30383E-18 3.77560E-19 8.32051E-20  
80-4.16004E-19 4.16004E-19-8.32051E-20 2.52435E-29

ITER 0 RNORM = 0.000 RMNORM= 0.000  
RINORM=0.1135E+06 RIMNOR=0.4432E-27  
RENORM= 303.6 REMNOR=0.3776E-52 RATIO =0.5173E-01 TOLER =0.1000E-03 NOT CONVERGED  
RFMAX = 46.58 RMMAX =0.3333E-14  
RTSMAL=0.1000E-03 RMSMAL=0.1000E-19  
RDT =0.1135E+06 RDR =0.1000E-19  
RATIOT=0.5173E-01 RATIO= 0.000  
MAX UN= 3.382 IEQ= 11 NODE 6 DOF 1 Y-DISPL.F  
MIN UN=-.2505E-26 IEQ= 94 NODE 47 DOF 2 X-ROT. F  
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 2 RNORM = 0.000 RMNORM= 0.000  
RINORM=0.1135E+06 RIMNOR=0.4432E-27  
RENORM= 11.46 REMNOR=0.3102E-21 RATIO =0.1005E-01 TOLER =0.1000E-03 NOT CONVERGED  
RFMAX = 46.58 RMMAX =0.3333E-14  
RTSMAL=0.1000E-03 RMSMAL=0.1000E-19  
RDT =0.1135E+06 RDR =0.1000E-19  
RATIOT=0.1005E-01 RATIO= 0.000  
MAX UN= 1.665 IEQ= 3 NODE 2 DOF 1 Y-DISPL.F  
MIN UN=-.2488E-10 IEQ= 79 NODE 40 DOF 1 Y-DISPL.F  
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 3 RNORM = 0.000 RMNORM= 0.000  
RINORM=0.1135E+06 RIMNOR=0.4432E-27  
RENORM= 7.179 REMNOR=0.6349E-21 RATIO =0.7955E-02 TOLER =0.1000E-03 NOT CONVERGED  
RFMAX = 46.58 RMMAX =0.3333E-14  
RTSMAL=0.1000E-03 RMSMAL=0.1000E-19  
RDT =0.1135E+06 RDR =0.1000E-19  
RATIOT=0.7955E-02 RATIO= 0.000  
MAX UN= 1.732 IEQ= 29 NODE 15 DOF 1 Y-DISPL.F  
MIN UN=-.9500E-10 IEQ= 25 NODE 13 DOF 1 Y-DISPL.F  
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 4 RNORM = 0.000 RMNORM= 0.000  
RINORM=0.1135E+06 RIMNOR=0.4432E-27  
RENORM=0.3602 REMNOR=0.3022E-21 RATIO =0.1782E-02 TOLER =0.1000E-03 NOT CONVERGED  
RFMAX = 46.58 RMMAX =0.3333E-14  
RTSMAL=0.1000E-03 RMSMAL=0.1000E-19  
RDT =0.1135E+06 RDR =0.1000E-19  
RATIOT=0.1782E-02 RATIO= 0.000  
MAX UN=0.5428 IEQ= 41 NODE 21 DOF 1 Y-DISPL.F  
MIN UN=-.1196E-09 IEQ= 5 NODE 3 DOF 1 Y-DISPL.F  
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 5 RNORM = 0.000 RMNORM= 0.000  
RINORM=0.1135E+06 RIMNOR=0.4432E-27  
RENORM=0.1134E-02 REMNOR=0.4747E-21 RATIO =0.9996E-04 TOLER =0.1000E-03 CONVERGED !  
RFMAX = 46.58 RMMAX =0.3333E-14  
RTSMAL=0.1000E-03 RMSMAL=0.1000E-19  
RDT =0.1135E+06 RDR =0.1000E-19  
RATIOT=0.9996E-04 RATIO= 0.000  
MAX UN=0.3367E-01 IEQ= 45 NODE 23 DOF 1 Y-DISPL.F  
MIN UN=-.1009E-09 IEQ= 21 NODE 11 DOF 1 Y-DISPL.F  
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

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|                PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
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New Project
SOLUTION REACHED USING      5 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   2   ( AT TIME  2.000   )

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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	3.2608626E-04	-6.3090580E-05	
2	3.1346814E-04	-6.3090580E-05	
3	3.0085049E-04	-6.3083600E-05	
4	2.8823656E-04	-6.3048665E-05	
5	2.7563522E-04	-6.2950732E-05	
6	2.6306375E-04	-6.2740611E-05	
7	2.5055068E-04	-6.2354927E-05	
8	2.3813583E-04	-6.1758492E-05	
9	2.2586126E-04	-6.0952510E-05	
10	2.1376858E-04	-5.9940140E-05	
11	2.0189863E-04	-5.8726335E-05	
12	1.9029104E-04	-5.7317752E-05	
13	1.7898397E-04	-5.5722601E-05	
14	1.6801377E-04	-5.3950756E-05	
15	1.5741467E-04	-5.2013784E-05	
16	1.4721839E-04	-4.9924887E-05	
17	1.3745380E-04	-4.7698947E-05	
18	1.2814678E-04	-4.5352709E-05	
19	1.1931950E-04	-4.2904777E-05	
20	1.1099028E-04	-4.0375650E-05	
21	1.0317319E-04	-3.7787867E-05	
22	9.5877447E-05	-3.5166024E-05	
23	8.9107267E-05	-3.2536869E-05	
24	8.2861223E-05	-2.9929861E-05	
25	7.7131950E-05	-2.7373453E-05	
26	7.1906909E-05	-2.4891027E-05	
27	6.7169377E-05	-2.2501384E-05	
28	6.2899219E-05	-2.0219157E-05	
29	5.9073821E-05	-1.8055330E-05	
30	5.5668679E-05	-1.6017618E-05	
31	5.2658042E-05	-1.4110878E-05	
32	5.0015450E-05	-1.2337505E-05	
33	4.7714146E-05	-1.0697745E-05	
34	4.5727546E-05	-9.1900651E-06	
35	4.4029531E-05	-7.8112093E-06	
36	4.2594796E-05	-6.5563526E-06	
37	4.1399134E-05	-5.4194308E-06	
38	4.0419636E-05	-4.3934157E-06	
39	3.9634886E-05	-3.4706174E-06	
40	3.9025050E-05	-2.6429024E-06	
41	3.8571945E-05	-1.9018906E-06	
42	3.8259080E-05	-1.2390811E-06	
43	3.8071665E-05	-6.4598311E-07	
44	3.7996594E-05	-1.1427579E-07	
45	3.8022396E-05	3.6404776E-07	
46	3.8139159E-05	7.9656189E-07	
47	3.8338434E-05	1.1902793E-06	
48	3.8613109E-05	1.5515572E-06	
49	3.8957268E-05	1.8860001E-06	
50	3.9366035E-05	2.1983718E-06	
51	3.9835400E-05	2.4925210E-06	
52	4.0362032E-05	2.7713045E-06	
53	4.0942998E-05	3.0364818E-06	
54	4.1575735E-05	3.2887413E-06	
55	4.2257597E-05	3.5275292E-06	
56	4.2985729E-05	3.7510497E-06	
57	4.3756791E-05	3.9561943E-06	
58	4.4566684E-05	4.1384887E-06	
59	4.5410271E-05	4.2920437E-06	
60	4.6281095E-05	4.4095117E-06	
61	4.7171080E-05	4.4820507E-06	
62	4.8070229E-05	4.4992961E-06	
63	4.8967148E-05	4.4617849E-06	
64	4.9852071E-05	4.3811839E-06	
65	5.0717456E-05	4.2680875E-06	
66	5.1557775E-05	4.1320287E-06	
67	5.2369302E-05	3.9814943E-06	
68	5.3149905E-05	3.8239437E-06	
69	5.3898842E-05	3.6658291E-06	
70	5.4616563E-05	3.5126175E-06	
71	5.5304516E-05	3.3688119E-06	
72	5.5964952E-05	3.2379724E-06	
73	5.6600745E-05	3.1227360E-06	

74	5.7215203E-05	3.0248344E-06
75	5.7811891E-05	2.9451100E-06
76	5.8394456E-05	2.8835291E-06
77	5.8966452E-05	2.8391931E-06
78	5.9531166E-05	2.8103471E-06
79	6.0091450E-05	2.7943858E-06
80	6.0649549E-05	2.7878578E-06
81	6.1206963E-05	2.7864678E-06



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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
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|          NewProject.BaseDesignSection_28.A1M1R1_1757  |
|          Exe Time :24 May 2018           18:25:47  |
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New Project

STRESS RESULTS FOR GROUP NO. 1

0\_L :  
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 81  
CURRENT TIME IS 2.0000

HARDENING 2D SOIL ELEMENT

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

EL * FACTOR	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
1 D	0.000	-3.2609E-04	0.000	0.000	0.000	0.000	ACTIVE	0.000	0.000	0.000	
1.000	1.000	0.000	0.000	0.000	Ug5_2_8_L_0						
2 D	0.4904	-3.1347E-04	2.074	0.5164	2.074	1.690	ACTIVE	0.000	-0.2000	1.935	
1.000	1.000	2.452	0.000	0.000	Ug5_2_8_L_0						
3 D	0.9831	-3.0085E-04	4.195	1.044	4.195	3.281	ACTIVE	0.000	-0.4000	3.871	
1.000	1.000	4.915	0.000	0.000	Ug5_2_8_L_0						
4 D	1.479	-2.8824E-04	6.376	1.588	6.376	4.727	ACTIVE	0.000	-0.6000	5.806	
1.000	1.000	7.394	0.000	0.000	Ug5_2_8_L_0						
5 D	1.977	-2.7564E-04	8.601	2.142	8.601	6.034	ACTIVE	0.000	-0.8000	7.742	
1.000	1.000	9.884	0.000	0.000	Ug5_2_8_L_0						
6 D	2.476	-2.6306E-04	10.85	2.701	10.85	7.235	ACTIVE	0.000	-1.000	9.677	
1.000	1.000	12.38	0.000	0.000	Ug5_2_8_L_0						
7 D	2.975	-2.5055E-04	13.09	3.260	13.09	8.362	ACTIVE	0.000	-1.200	11.61	
1.000	1.000	14.87	0.000	0.000	Ug5_2_8_L_0						
8 D	3.480	-2.3814E-04	15.46	3.850	15.46	9.440	ACTIVE	0.000	-1.400	13.55	
1.000	1.000	17.40	0.000	0.000	Ug5_2_8_L_0						
9 D	3.987	-2.2586E-04	17.87	4.450	17.87	10.49	ACTIVE	0.000	-1.600	15.48	
1.000	1.000	19.93	0.000	0.000	Ug5_2_8_L_0						
10 D	4.482	-2.1377E-04	20.04	4.990	20.04	11.51	ACTIVE	0.000	-1.800	17.42	
1.000	1.000	22.41	0.000	0.000	Ug5_2_8_L_0						
11 D	4.984	-2.0190E-04	22.36	5.567	22.36	12.52	ACTIVE	0.000	-2.000	19.35	
1.000	1.000	24.92	0.000	0.000	Ug5_2_8_L_0						
12 D	5.485	-1.9029E-04	24.64	6.135	24.64	13.53	ACTIVE	0.000	-2.200	21.29	
1.000	1.000	27.42	0.000	0.000	Ug5_2_8_L_0						
13 D	5.977	-1.7898E-04	26.75	6.660	26.75	14.52	ACTIVE	0.000	-2.400	23.23	
1.000	1.000	29.89	0.000	0.000	Ug5_2_8_L_0						
14 D	6.475	-1.6801E-04	28.98	7.216	28.98	15.52	ACTIVE	0.000	-2.600	25.16	
1.000	1.000	32.38	0.000	0.000	Ug5_2_8_L_0						
15 D	6.973	-1.5741E-04	31.19	7.767	31.19	16.51	ACTIVE	0.000	-2.800	27.10	
1.000	1.000	34.86	0.000	0.000	Ug5_2_8_L_0						
16 D	7.469	-1.4722E-04	33.39	8.313	33.39	17.49	ACTIVE	0.000	-3.000	29.03	
1.000	1.000	37.35	0.000	0.000	Ug5_2_8_L_0						
17 D	7.960	-1.3745E-04	35.46	8.830	35.46	18.48	ACTIVE	0.000	-3.200	30.97	
1.000	1.000	39.80	0.000	0.000	Ug5_2_8_L_0						
18 D	8.455	-1.2815E-04	37.64	9.372	37.64	19.47	ACTIVE	0.000	-3.400	32.90	
1.000	1.000	42.28	0.000	0.000	Ug5_2_8_L_0						
19 D	8.950	-1.1932E-04	39.80	9.910	39.80	20.46	ACTIVE	0.000	-3.600	34.84	
1.000	1.000	44.75	0.000	0.000	Ug5_2_8_L_0						
20 D	9.440	-1.1099E-04	41.87	10.42	41.87	21.44	ACTIVE	0.000	-3.800	36.77	
1.000	1.000	47.20	0.000	0.000	Ug5_2_8_L_0						
21 D	9.934	-1.0317E-04	44.02	10.96	44.02	22.43	ACTIVE	0.000	-4.000	38.71	
1.000	1.000	49.67	0.000	0.000	Ug5_2_8_L_0						
22 D	10.43	-9.5877E-05	46.16	11.49	46.16	23.42	ACTIVE	0.000	-4.200	40.65	
1.000	1.000	52.14	0.000	0.000	Ug5_2_8_L_0						
23 D	10.92	-8.9107E-05	48.22	12.01	48.22	24.40	ACTIVE	0.000	-4.400	42.58	
1.000	1.000	54.59	0.000	0.000	Ug5_2_8_L_0						
24 D	11.64	-8.2861E-05	50.35	13.71	50.35	25.39	UL-RL	1.4103E+05	-4.600	44.52	
1.000	1.000	58.22	0.000	0.000	Ug5_2_8_L_0						
25 D	12.39	-7.7132E-05	52.48	15.50	52.48	26.38	UL-RL	1.4103E+05	-4.800	46.45	
1.000	1.000	61.96	0.000	0.000	Ug5_2_8_L_0						
26 D	13.12	-7.1907E-05	54.60	17.23	54.60	27.37	UL-RL	1.4103E+05	-5.000	48.39	
1.000	1.000	65.62	0.000	0.000	Ug5_2_8_L_0						
27 D	13.84	-6.7169E-05	56.66	18.89	56.66	28.36	UL-RL	1.4103E+05	-5.200	50.32	
1.000	1.000	69.21	0.000	0.000	Ug5_2_8_L_0						
28 D	14.55	-6.2899E-05	58.77	20.48	58.77	29.35	UL-RL	1.4103E+05	-5.400	52.26	
1.000	1.000	72.74	0.000	0.000	Ug5_2_8_L_0						
29 D	15.24	-5.9074E-05	60.89	22.01	60.89	30.34	UL-RL	1.4103E+05	-5.600	54.19	
1.000	1.000	76.21	0.000	0.000	Ug5_2_8_L_0						
30 D	15.92	-5.5669E-05	62.94	23.49	62.94	31.34	UL-RL	1.4103E+05	-5.800	56.13	
1.000	1.000	79.62	0.000	0.000	Ug5_2_8_L_0						
31 D	16.59	-5.2658E-05	65.05	24.91	65.05	32.33	UL-RL	1.4103E+05	-6.000	58.06	
1.000	1.000	82.97	0.000	0.000	Ug5_2_8_L_0						
32 D	17.25	-5.0015E-05	67.16	26.27	67.16	33.33	UL-RL	1.4103E+05	-6.200	60.00	
1.000	1.000	86.27	0.000	0.000	Ug5_2_8_L_0						
33 D	17.91	-4.7714E-05	69.21	27.59	69.21	34.32	UL-RL	1.4103E+05	-6.400	61.94	

1.000	1.000	89.53	0.000	0.000	Ug5_2_8_L_0					
34 D	18.55	-4.5728E-05	71.31	28.87	71.31	35.32	UL-RL	1.4103E+05	-6.600	63.87
1.000	1.000	92.74	0.000	0.000	Ug5_2_8_L_0					
35 D	19.18	-4.4030E-05	73.41	30.11	73.41	36.32	UL-RL	1.4103E+05	-6.800	65.81
1.000	1.000	95.91	0.000	0.000	Ug5_2_8_L_0					
36 D	19.81	-4.2595E-05	75.51	31.31	75.51	37.31	UL-RL	1.4103E+05	-7.000	67.74
1.000	1.000	99.05	0.000	0.000	Ug5_2_8_L_0					
37 D	20.43	-4.1399E-05	77.56	32.47	77.56	38.31	UL-RL	1.4103E+05	-7.200	69.68
1.000	1.000	102.2	0.000	0.000	Ug5_2_8_L_0					
38 D	21.04	-4.0420E-05	79.66	33.61	79.66	39.31	UL-RL	1.4103E+05	-7.400	71.61
1.000	1.000	105.2	0.000	0.000	Ug5_2_8_L_0					
39 D	21.65	-3.9635E-05	81.76	34.72	81.76	40.31	UL-RL	1.4103E+05	-7.600	73.55
1.000	1.000	108.3	0.000	0.000	Ug5_2_8_L_0					
40 D	22.26	-3.9025E-05	83.81	35.81	83.81	41.31	UL-RL	1.4103E+05	-7.800	75.48
1.000	1.000	111.3	0.000	0.000	Ug5_2_8_L_0					
41 D	22.86	-3.8572E-05	85.90	36.88	85.90	42.32	UL-RL	1.4103E+05	-8.000	77.42
1.000	1.000	114.3	0.000	0.000	Ug5_2_8_L_0					
42 D	23.46	-3.8259E-05	87.99	37.92	87.99	43.32	UL-RL	1.4103E+05	-8.200	79.35
1.000	1.000	117.3	0.000	0.000	Ug5_2_8_L_0					
43 D	24.05	-3.8072E-05	90.04	38.95	90.04	44.32	UL-RL	1.4103E+05	-8.400	81.29
1.000	1.000	120.2	0.000	0.000	Ug5_2_8_L_0					
44 D	24.64	-3.7997E-05	92.14	39.97	92.14	45.33	UL-RL	1.4103E+05	-8.600	83.23
1.000	1.000	123.2	0.000	0.000	Ug5_2_8_L_0					
45 D	25.23	-3.8022E-05	94.22	40.97	94.22	46.33	UL-RL	1.4103E+05	-8.800	85.16
1.000	1.000	126.1	0.000	0.000	Ug5_2_8_L_0					
46 D	25.81	-3.8139E-05	96.31	41.96	96.31	47.34	UL-RL	1.4103E+05	-9.000	87.10
1.000	1.000	129.1	0.000	0.000	Ug5_2_8_L_0					
47 D	26.39	-3.8338E-05	98.36	42.94	98.36	48.35	UL-RL	1.4103E+05	-9.200	89.03
1.000	1.000	132.0	0.000	0.000	Ug5_2_8_L_0					
48 D	26.98	-3.8613E-05	100.5	43.91	100.5	49.36	UL-RL	1.4103E+05	-9.400	90.97
1.000	1.000	134.9	0.000	0.000	Ug5_2_8_L_0					
49 D	27.55	-3.8957E-05	102.5	44.87	102.5	50.36	UL-RL	1.4103E+05	-9.600	92.90
1.000	1.000	137.8	0.000	0.000	Ug5_2_8_L_0					
50 D	28.13	-3.9366E-05	104.6	45.82	104.6	51.37	UL-RL	1.4103E+05	-9.800	94.84
1.000	1.000	140.7	0.000	0.000	Ug5_2_8_L_0					
51 D	28.71	-3.9835E-05	106.7	46.77	106.7	52.38	UL-RL	1.4103E+05	-10.000	96.77
1.000	1.000	143.5	0.000	0.000	Ug5_2_8_L_0					
52 D	29.28	-4.0362E-05	108.8	47.70	108.8	53.39	UL-RL	1.4103E+05	-10.200	98.71
1.000	1.000	146.4	0.000	0.000	Ug5_2_8_L_0					
53 D	29.86	-4.0943E-05	110.8	48.63	110.8	54.40	UL-RL	1.4103E+05	-10.400	100.6
1.000	1.000	149.3	0.000	0.000	Ug5_2_8_L_0					
54 D	30.43	-4.1576E-05	112.9	49.55	112.9	55.42	UL-RL	1.4103E+05	-10.600	102.6
1.000	1.000	152.1	0.000	0.000	Ug5_2_8_L_0					
55 D	31.00	-4.2258E-05	115.0	50.47	115.0	56.43	UL-RL	1.4103E+05	-10.800	104.5
1.000	1.000	155.0	0.000	0.000	Ug5_2_8_L_0					
56 D	31.57	-4.2986E-05	117.1	51.38	117.1	57.44	UL-RL	1.4103E+05	-11.000	106.5
1.000	1.000	157.8	0.000	0.000	Ug5_2_8_L_0					
57 D	32.13	-4.3757E-05	119.1	52.29	119.1	58.46	UL-RL	1.4103E+05	-11.200	108.4
1.000	1.000	160.7	0.000	0.000	Ug5_2_8_L_0					
58 D	32.70	-4.4567E-05	121.2	53.19	121.2	59.47	UL-RL	1.4103E+05	-11.400	110.3
1.000	1.000	163.5	0.000	0.000	Ug5_2_8_L_0					
59 D	33.27	-4.5410E-05	123.3	54.08	123.3	60.48	UL-RL	1.4103E+05	-11.600	112.3
1.000	1.000	166.3	0.000	0.000	Ug5_2_8_L_0					
60 D	33.83	-4.6281E-05	125.3	54.97	125.3	61.50	UL-RL	1.4103E+05	-11.800	114.2
1.000	1.000	169.2	0.000	0.000	Ug5_2_8_L_0					
61 D	34.40	-4.7171E-05	127.4	55.86	127.4	62.52	UL-RL	1.4103E+05	-12.000	116.1
1.000	1.000	172.0	0.000	0.000	Ug5_2_8_L_0					
62 D	35.65	-4.8070E-05	129.3	60.19	129.3	63.43	UL-RL	6.7514E+04	-12.200	118.1
1.000	1.000	178.3	0.000	0.000	Ug6_741_743_L_0					
63 D	36.21	-4.8967E-05	131.2	61.04	131.2	64.35	UL-RL	6.7514E+04	-12.400	120.0
1.000	1.000	181.0	0.000	0.000	Ug6_741_743_L_0					
64 D	36.77	-4.9852E-05	133.0	61.90	133.0	65.27	UL-RL	6.7514E+04	-12.600	121.9
1.000	1.000	183.8	0.000	0.000	Ug6_741_743_L_0					
65 D	37.33	-5.0717E-05	134.9	62.76	134.9	66.18	UL-RL	6.7514E+04	-12.800	123.9
1.000	1.000	186.6	0.000	0.000	Ug6_741_743_L_0					
66 D	37.89	-5.1558E-05	136.7	63.62	136.7	67.10	UL-RL	6.7514E+04	-13.000	125.8
1.000	1.000	189.4	0.000	0.000	Ug6_741_743_L_0					
67 D	38.45	-5.2369E-05	138.5	64.49	138.5	68.02	UL-RL	6.7514E+04	-13.200	127.7
1.000	1.000	192.2	0.000	0.000	Ug6_741_743_L_0					
68 D	39.01	-5.3150E-05	140.4	65.35	140.4	68.94	UL-RL	6.7514E+04	-13.400	129.7
1.000	1.000	195.0	0.000	0.000	Ug6_741_743_L_0					
69 D	39.57	-5.3899E-05	142.2	66.22	142.2	69.86	UL-RL	6.7514E+04	-13.600	131.6
1.000	1.000	197.8	0.000	0.000	Ug6_741_743_L_0					
70 D	40.13	-5.4617E-05	144.0	67.09	144.0	70.78	UL-RL	6.7514E+04	-13.800	133.5
1.000	1.000	200.6	0.000	0.000	Ug6_741_743_L_0					
71 D	40.69	-5.5305E-05	145.8	67.97	145.8	71.70	UL-RL	6.7514E+04	-14.000	135.5
1.000	1.000	203.4	0.000	0.000	Ug6_741_743_L_0					
72 D	41.25	-5.5965E-05	147.7	68.84	147.7	72.62	UL-RL	6.7514E+04	-14.200	137.4
1.000	1.000	206.3	0.000	0.000	Ug6_741_743_L_0					
73 D	41.81	-5.6601E-05	149.5	69.72	149.5	73.54	UL-RL	6.7514E+04	-14.400	139.4
1.000	1.000	209.1	0.000	0.000	Ug6_741_743_L_0					
74 D	42.38	-5.7215E-05	151.3	70.60	151.3	74.46	UL-RL	6.7514E+04	-14.600	141.3
1.000	1.000	211.9	0.000	0.000	Ug6_741_743_L_0					
75 D	42.94	-5.7812E-05	153.2	71.48	153.2	75.38	UL-RL	6.7514E+04	-14.800	143.2
1.000	1.000	214.7	0.000	0.000	Ug6_741_743_L_0					
76 D	43.51	-5.8394E-05	155.0	72.36	155.0	76.31	UL-RL	6.7514E+04	-15.000	145.2
1.000	1.000	217.5	0.000	0.000	Ug6_741_743_L_0					
77 D	44.07	-5.8966E-05	156.8	73.25	156.8	77.23	UL-RL	6.7514E+04	-15.200	147.1
1.000	1.000	220.3	0.000	0.000	Ug6_741_743_L_0					
78 D	44.63	-5.9531E-05	158.7	74.13	158.7	78.15	UL-RL	6.7514E+04	-15.400	149.0
1.000	1.000	223.2	0.000	0.000	Ug6_741_743_L_0					

79 D	45.20	-6.0091E-05	160.5	75.02	160.5	79.07	UL-RL	6.7514E+04	-15.60	151.0
1.000	1.000	226.0	0.000	0.000	Ug6_741_743_L_0					
80 D	45.76	-6.0650E-05	162.3	75.90	162.3	80.00	UL-RL	6.7514E+04	-15.80	152.9
1.000	1.000	228.8	0.000	0.000	Ug6_741_743_L_0					
81 D	23.16	-6.1207E-05	164.2	76.79	164.2	80.92	UL-RL	6.7514E+04	-16.00	154.8
1.000	1.000	231.6	0.000	0.000	Ug6_741_743_L_0					

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|                PARATIEPLUS(TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION *Build date:Jul 11, 2017*                |
|                                                                                                                                            |
|                                                                                                                                            |
|                NewProject.BaseDesignSection_28.A1M1R1_1757                                                                              |
|                Exe Time :24 May 2018      18:25:47                                                                              |
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New Project

STRESS RESULTS FOR GROUP NO. 2

0\_R  
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 81  
CURRENT TIME IS 2.0000

HARDENING 2D SOIL ELEMENT

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

EL * FACTOR	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
1	0.000	--	--	--	--	--	REMOVED	--	0.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
2	0.000	--	--	--	--	--	REMOVED	--	-0.2000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
3	0.000	--	--	--	--	--	REMOVED	--	-0.4000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
4	0.000	--	--	--	--	--	REMOVED	--	-0.6000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
5	0.000	--	--	--	--	--	REMOVED	--	-0.8000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
6 D	0.000	2.6306E-04	0.000	0.000	10.00	7.074	PASSIVE	0.000	-1.000	0.000	
1.000	1.000	0.000	0.000	0.000	Ug5_2_8_L_0						
7 D	2.978	2.5055E-04	1.935	12.83	12.00	12.83	V-C	2.3371E+04	-1.200	2.065	
1.000	1.000	14.89	0.000	0.000	Ug5_2_8_L_0						
8 D	3.560	2.3814E-04	3.871	13.67	14.00	13.67	V-C	2.3371E+04	-1.400	4.129	
1.000	1.000	17.80	0.000	0.000	Ug5_2_8_L_0						
9 D	4.128	2.2586E-04	5.806	14.45	16.00	14.45	V-C	2.3371E+04	-1.600	6.194	
1.000	1.000	20.64	0.000	0.000	Ug5_2_8_L_0						
10 D	4.689	2.1377E-04	7.742	15.18	18.00	15.18	V-C	2.3371E+04	-1.800	8.258	
1.000	1.000	23.44	0.000	0.000	Ug5_2_8_L_0						
11 D	5.245	2.0190E-04	9.677	15.90	20.00	15.90	V-C	2.3371E+04	-2.000	10.32	
1.000	1.000	26.23	0.000	0.000	Ug5_2_8_L_0						
12 D	5.801	1.9029E-04	11.61	16.62	22.00	16.62	V-C	2.3371E+04	-2.200	12.39	
1.000	1.000	29.00	0.000	0.000	Ug5_2_8_L_0						
13 D	6.355	1.7898E-04	13.55	17.32	24.00	17.32	V-C	2.3371E+04	-2.400	14.45	
1.000	1.000	31.78	0.000	0.000	Ug5_2_8_L_0						
14 D	6.910	1.6801E-04	15.48	18.03	26.00	18.03	V-C	2.3371E+04	-2.600	16.52	
1.000	1.000	34.55	0.000	0.000	Ug5_2_8_L_0						
15 D	7.466	1.5741E-04	17.42	18.75	28.00	18.75	V-C	2.3371E+04	-2.800	18.58	
1.000	1.000	37.33	0.000	0.000	Ug5_2_8_L_0						
16 D	8.023	1.4722E-04	19.35	19.47	30.00	19.47	V-C	2.3371E+04	-3.000	20.65	
1.000	1.000	40.11	0.000	0.000	Ug5_2_8_L_0						
17 D	8.581	1.3745E-04	21.29	20.20	32.00	20.20	V-C	2.3371E+04	-3.200	22.71	
1.000	1.000	42.91	0.000	0.000	Ug5_2_8_L_0						
18 D	9.141	1.2815E-04	23.23	20.93	34.00	20.93	V-C	2.3371E+04	-3.400	24.77	
1.000	1.000	45.71	0.000	0.000	Ug5_2_8_L_0						
19 D	9.704	1.1932E-04	25.16	21.68	36.00	21.68	V-C	2.3371E+04	-3.600	26.84	
1.000	1.000	48.52	0.000	0.000	Ug5_2_8_L_0						
20 D	10.27	1.1099E-04	27.10	22.44	38.00	22.44	V-C	2.3371E+04	-3.800	28.90	
1.000	1.000	51.34	0.000	0.000	Ug5_2_8_L_0						
21 D	10.84	1.0317E-04	29.03	23.21	40.00	23.21	V-C	2.3371E+04	-4.000	30.97	
1.000	1.000	54.18	0.000	0.000	Ug5_2_8_L_0						
22 D	11.40	9.5877E-05	30.97	23.99	42.00	23.99	V-C	2.3371E+04	-4.200	33.03	
1.000	1.000	57.02	0.000	0.000	Ug5_2_8_L_0						
23 D	11.98	8.9107E-05	32.90	24.79	44.00	24.79	V-C	2.3371E+04	-4.400	35.10	
1.000	1.000	59.88	0.000	0.000	Ug5_2_8_L_0						
24 D	12.55	8.2861E-05	34.84	25.59	46.00	25.59	V-C	2.3371E+04	-4.600	37.16	
1.000	1.000	62.75	0.000	0.000	Ug5_2_8_L_0						
25 D	13.13	7.7132E-05	36.77	26.41	48.00	26.41	V-C	2.3371E+04	-4.800	39.23	
1.000	1.000	65.64	0.000	0.000	Ug5_2_8_L_0						
26 D	13.71	7.1907E-05	38.71	27.24	50.00	27.24	V-C	2.3371E+04	-5.000	41.29	
1.000	1.000	68.53	0.000	0.000	Ug5_2_8_L_0						
27 D	14.29	6.7169E-05	40.65	28.09	52.00	28.09	V-C	2.3371E+04	-5.200	43.35	
1.000	1.000	71.44	0.000	0.000	Ug5_2_8_L_0						
28 D	14.87	6.2899E-05	42.58	28.94	54.00	28.94	V-C	2.3371E+04	-5.400	45.42	
1.000	1.000	74.36	0.000	0.000	Ug5_2_8_L_0						
29 D	15.46	5.9074E-05	44.52	29.81	56.00	29.81	V-C	2.3371E+04	-5.600	47.48	
1.000	1.000	77.29	0.000	0.000	Ug5_2_8_L_0						
30 D	16.05	5.5669E-05	46.45	30.69	58.00	30.69	V-C	2.3371E+04	-5.800	49.55	
1.000	1.000	80.24	0.000	0.000	Ug5_2_8_L_0						
31 D	16.64	5.2658E-05	48.39	31.57	60.00	31.57	V-C	2.3371E+04	-6.000	51.61	
1.000	1.000	83.19	0.000	0.000	Ug5_2_8_L_0						
32 D	17.23	5.0015E-05	50.32	32.47	62.00	32.47	V-C	2.3371E+04	-6.200	53.68	
1.000	1.000	86.15	0.000	0.000	Ug5_2_8_L_0						
33 D	17.82	4.7714E-05	52.26	33.37	64.00	33.38	UL-RL	7.0113E+04	-6.400	55.74	

1.000	1.000	89.11	0.000	0.000	Ug5_2_8_L_0					
34 D	18.40	4.5728E-05	54.19	34.21	66.00	34.33	UL-RL	7.0113E+04	-6.600	57.81
1.000	1.000	92.02	0.000	0.000	Ug5_2_8_L_0					
35 D	18.99	4.4030E-05	56.13	35.07	68.00	35.28	UL-RL	7.0113E+04	-6.800	59.87
1.000	1.000	94.94	0.000	0.000	Ug5_2_8_L_0					
36 D	19.58	4.2595E-05	58.06	35.95	70.00	36.23	UL-RL	7.0113E+04	-7.000	61.94
1.000	1.000	97.89	0.000	0.000	Ug5_2_8_L_0					
37 D	20.17	4.1399E-05	60.00	36.85	72.00	37.19	UL-RL	7.0113E+04	-7.200	64.00
1.000	1.000	100.8	0.000	0.000	Ug5_2_8_L_0					
38 D	20.76	4.0420E-05	61.94	37.76	74.00	38.14	UL-RL	7.0113E+04	-7.400	66.06
1.000	1.000	103.8	0.000	0.000	Ug5_2_8_L_0					
39 D	21.36	3.9635E-05	63.87	38.69	76.00	39.10	UL-RL	7.0113E+04	-7.600	68.13
1.000	1.000	106.8	0.000	0.000	Ug5_2_8_L_0					
40 D	21.96	3.9025E-05	65.81	39.61	78.00	40.06	UL-RL	7.0113E+04	-7.800	70.19
1.000	1.000	109.8	0.000	0.000	Ug5_2_8_L_0					
41 D	22.56	3.8572E-05	67.74	40.54	80.00	41.03	UL-RL	7.0113E+04	-8.000	72.26
1.000	1.000	112.8	0.000	0.000	Ug5_2_8_L_0					
42 D	23.16	3.8259E-05	69.68	41.47	82.00	42.00	UL-RL	7.0113E+04	-8.200	74.32
1.000	1.000	115.8	0.000	0.000	Ug5_2_8_L_0					
43 D	23.76	3.8072E-05	71.61	42.42	84.00	42.97	UL-RL	7.0113E+04	-8.400	76.39
1.000	1.000	118.8	0.000	0.000	Ug5_2_8_L_0					
44 D	24.36	3.7997E-05	73.55	43.37	86.00	43.94	UL-RL	7.0113E+04	-8.600	78.45
1.000	1.000	121.8	0.000	0.000	Ug5_2_8_L_0					
45 D	24.97	3.8022E-05	75.48	44.33	88.00	44.91	UL-RL	7.0113E+04	-8.800	80.52
1.000	1.000	124.8	0.000	0.000	Ug5_2_8_L_0					
46 D	25.58	3.8139E-05	77.42	45.30	90.00	45.89	UL-RL	7.0113E+04	-9.000	82.58
1.000	1.000	127.9	0.000	0.000	Ug5_2_8_L_0					
47 D	26.18	3.8338E-05	79.35	46.27	92.00	46.86	UL-RL	7.0113E+04	-9.200	84.65
1.000	1.000	130.9	0.000	0.000	Ug5_2_8_L_0					
48 D	26.79	3.8613E-05	81.29	47.25	94.00	47.84	UL-RL	7.0113E+04	-9.400	86.71
1.000	1.000	134.0	0.000	0.000	Ug5_2_8_L_0					
49 D	27.40	3.8957E-05	83.23	48.24	96.00	48.82	UL-RL	7.0113E+04	-9.600	88.77
1.000	1.000	137.0	0.000	0.000	Ug5_2_8_L_0					
50 D	28.01	3.9366E-05	85.16	49.23	98.00	49.79	UL-RL	7.0113E+04	-9.800	90.84
1.000	1.000	140.1	0.000	0.000	Ug5_2_8_L_0					
51 D	28.63	3.9835E-05	87.10	50.23	100.00	50.77	UL-RL	7.0113E+04	-10.000	92.90
1.000	1.000	143.1	0.000	0.000	Ug5_2_8_L_0					
52 D	29.24	4.0362E-05	89.03	51.23	102.0	51.75	UL-RL	7.0113E+04	-10.200	94.97
1.000	1.000	146.2	0.000	0.000	Ug5_2_8_L_0					
53 D	29.85	4.0943E-05	90.97	52.23	104.0	52.73	UL-RL	7.0113E+04	-10.400	97.03
1.000	1.000	149.3	0.000	0.000	Ug5_2_8_L_0					
54 D	30.47	4.1576E-05	92.90	53.24	106.0	53.71	UL-RL	7.0113E+04	-10.600	99.10
1.000	1.000	152.3	0.000	0.000	Ug5_2_8_L_0					
55 D	31.08	4.2258E-05	94.84	54.25	108.0	54.69	UL-RL	7.0113E+04	-10.800	101.2
1.000	1.000	155.4	0.000	0.000	Ug5_2_8_L_0					
56 D	31.70	4.2986E-05	96.77	55.27	110.0	55.67	UL-RL	7.0113E+04	-11.000	103.2
1.000	1.000	158.5	0.000	0.000	Ug5_2_8_L_0					
57 D	32.32	4.3757E-05	98.71	56.29	112.0	56.65	UL-RL	7.0113E+04	-11.200	105.3
1.000	1.000	161.6	0.000	0.000	Ug5_2_8_L_0					
58 D	32.93	4.4567E-05	100.6	57.31	114.0	57.63	UL-RL	7.0113E+04	-11.400	107.4
1.000	1.000	164.7	0.000	0.000	Ug5_2_8_L_0					
59 D	33.55	4.5410E-05	102.6	58.34	116.0	58.61	UL-RL	7.0113E+04	-11.600	109.4
1.000	1.000	167.8	0.000	0.000	Ug5_2_8_L_0					
60 D	34.17	4.6281E-05	104.5	59.37	118.0	59.60	UL-RL	7.0113E+04	-11.800	111.5
1.000	1.000	170.9	0.000	0.000	Ug5_2_8_L_0					
61 D	34.79	4.7171E-05	106.5	60.40	120.0	60.58	UL-RL	7.0113E+04	-12.000	113.5
1.000	1.000	173.9	0.000	0.000	Ug5_2_8_L_0					
62 D	35.22	4.8070E-05	108.2	60.50	121.8	61.46	UL-RL	5.2723E+04	-12.200	115.6
1.000	1.000	176.1	0.000	0.000	Ug6_741_743_L_0					
63 D	35.82	4.8967E-05	109.9	61.41	123.6	62.35	UL-RL	5.2723E+04	-12.400	117.7
1.000	1.000	179.1	0.000	0.000	Ug6_741_743_L_0					
64 D	36.41	4.9852E-05	111.7	62.33	125.4	63.23	UL-RL	5.2723E+04	-12.600	119.7
1.000	1.000	182.1	0.000	0.000	Ug6_741_743_L_0					
65 D	37.01	5.0717E-05	113.4	63.24	127.2	64.12	UL-RL	5.2723E+04	-12.800	121.8
1.000	1.000	185.0	0.000	0.000	Ug6_741_743_L_0					
66 D	37.61	5.1558E-05	115.1	64.16	129.0	65.01	UL-RL	5.2723E+04	-13.000	123.9
1.000	1.000	188.0	0.000	0.000	Ug6_741_743_L_0					
67 D	38.20	5.2369E-05	116.9	65.07	130.8	65.89	UL-RL	5.2723E+04	-13.200	125.9
1.000	1.000	191.0	0.000	0.000	Ug6_741_743_L_0					
68 D	38.80	5.3150E-05	118.6	65.98	132.6	66.78	UL-RL	5.2723E+04	-13.400	128.0
1.000	1.000	194.0	0.000	0.000	Ug6_741_743_L_0					
69 D	39.39	5.3899E-05	120.3	66.89	134.4	67.67	UL-RL	5.2723E+04	-13.600	130.1
1.000	1.000	197.0	0.000	0.000	Ug6_741_743_L_0					
70 D	39.99	5.4617E-05	122.1	67.80	136.2	68.55	UL-RL	5.2723E+04	-13.800	132.1
1.000	1.000	199.9	0.000	0.000	Ug6_741_743_L_0					
71 D	40.58	5.5305E-05	123.8	68.71	138.0	69.44	UL-RL	5.2723E+04	-14.000	134.2
1.000	1.000	202.9	0.000	0.000	Ug6_741_743_L_0					
72 D	41.18	5.5965E-05	125.5	69.62	139.8	70.33	UL-RL	5.2723E+04	-14.200	136.3
1.000	1.000	205.9	0.000	0.000	Ug6_741_743_L_0					
73 D	41.77	5.6601E-05	127.3	70.53	141.6	71.22	UL-RL	5.2723E+04	-14.400	138.3
1.000	1.000	208.8	0.000	0.000	Ug6_741_743_L_0					
74 D	42.36	5.7215E-05	129.0	71.43	143.4	72.11	UL-RL	5.2723E+04	-14.600	140.4
1.000	1.000	211.8	0.000	0.000	Ug6_741_743_L_0					
75 D	42.96	5.7812E-05	130.7	72.34	145.2	73.00	UL-RL	5.2723E+04	-14.800	142.5
1.000	1.000	214.8	0.000	0.000	Ug6_741_743_L_0					
76 D	43.55	5.8394E-05	132.5	73.24	147.0	73.89	UL-RL	5.2723E+04	-15.000	144.5
1.000	1.000	217.8	0.000	0.000	Ug6_741_743_L_0					
77 D	44.15	5.8966E-05	134.2	74.15	148.8	74.78	UL-RL	5.2723E+04	-15.200	146.6
1.000	1.000	220.7	0.000	0.000	Ug6_741_743_L_0					
78 D	44.74	5.9531E-05	136.0	75.05	150.6	75.67	UL-RL	5.2723E+04	-15.400	148.6
1.000	1.000	223.7	0.000	0.000	Ug6_741_743_L_0					

79 D	45.33	6.0091E-05	137.7	75.96	152.4	76.56	UL-RL	5.2723E+04	-15.60	150.7
1.000	1.000	226.7	0.000	0.000	Ug6_741_743_L_0					
80 D	45.93	6.0650E-05	139.4	76.86	154.2	77.45	UL-RL	5.2723E+04	-15.80	152.8
1.000	1.000	229.6	0.000	0.000	Ug6_741_743_L_0					
81 D	23.26	6.1207E-05	141.2	77.76	156.0	78.34	UL-RL	5.2723E+04	-16.00	154.8
1.000	1.000	232.6	0.000	0.000	Ug6_741_743_L_0					

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|                PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
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New Project

STRESS RESULTS FOR GROUP NO. 3

WallElement\_33 :  
ELEMENT TYPE 2 NO.OF ELEMENTS. IN THIS GROUP 80  
CURRENT TIME IS 2.0000

WALL2D ELEMENT

EL	TA	TB	MA	MB
1	-1.37135E-11	1.37135E-11	-1.52589E-12	8.84981E-12
2	0.49037	-0.49037	1.06493E-12	9.80749E-02
3	1.4735	-1.4735	-9.80749E-02	0.39277
4	2.9523	-2.9523	-0.39277	0.98322
5	4.9290	-4.9290	-0.98322	1.9690
6	7.4046	-7.4046	-1.9690	3.4499
7	7.4008	-7.4008	-3.4499	4.9301
8	7.3200	-7.3200	-4.9301	6.3941
9	7.1789	-7.1789	-6.3941	7.8299
10	6.9722	-6.9722	-7.8299	9.2243
11	6.7111	-6.7111	-9.2243	10.567
12	6.3955	-6.3955	-10.567	11.846
13	6.0174	-6.0174	-11.846	13.049
14	5.5829	-5.5829	-13.049	14.166
15	5.0900	-5.0900	-14.166	15.184
16	4.5366	-4.5366	-15.184	16.091
17	3.9152	-3.9152	-16.091	16.874
18	3.2289	-3.2289	-16.874	17.520
19	2.4750	-2.4750	-17.520	18.015
20	1.6465	-1.6465	-18.015	18.344
21	0.74528	-0.74528	-18.344	18.493
22	-0.23158	0.23158	-18.493	18.447
23	-1.3243	1.3243	-18.447	18.182
24	-2.2304	2.2304	-18.182	17.736
25	-2.9669	2.9669	-17.736	17.143
26	-3.5503	3.5503	-17.143	16.433
27	-3.9966	3.9966	-16.433	15.633
28	-4.3211	4.3211	-15.633	14.769
29	-4.5385	4.5385	-14.769	13.861
30	-4.6625	4.6625	-13.861	12.929
31	-4.7060	4.7060	-12.929	11.988
32	-4.6812	4.6812	-11.988	11.051
33	-4.5975	4.5975	-11.051	10.132
34	-4.4526	4.4526	-10.132	9.2413
35	-4.2585	4.2585	-9.2413	8.3896
36	-4.0262	4.0262	-8.3896	7.5844
37	-3.7655	3.7655	-7.5844	6.8313
38	-3.4855	3.4855	-6.8313	6.1342
39	-3.1942	3.1942	-6.1342	5.4954
40	-2.8968	2.8968	-5.4954	4.9160
41	-2.5969	2.5969	-4.9160	4.3966
42	-2.3004	2.3004	-4.3966	3.9365
43	-2.0124	2.0124	-3.9365	3.5341
44	-1.7377	1.7377	-3.5341	3.1865
45	-1.4806	1.4806	-3.1865	2.8904
46	-1.2449	1.2449	-2.8904	2.6414
47	-1.0340	1.0340	-2.6414	2.4346
48	-0.85117	0.85117	-2.4346	2.2644
49	-0.69925	0.69925	-2.2644	2.1245
50	-0.58100	0.58100	-2.1245	2.0083
51	-0.49894	0.49894	-2.0083	1.9085
52	-0.45550	0.45550	-1.9085	1.8174
53	-0.45294	0.45294	-1.8174	1.7269
54	-0.49345	0.49345	-1.7269	1.6282
55	-0.57910	0.57910	-1.6282	1.5123
56	-0.71182	0.71182	-1.5123	1.3700
57	-0.89343	0.89343	-1.3700	1.1913
58	-1.1255	1.1255	-1.1913	0.96618
59	-1.4096	1.4096	-0.96618	0.68426
60	-1.7467	1.7467	-0.68426	0.33492
61	-2.1377	2.1377	-0.33492	-9.26198E-02
62	-1.7090	1.7090	9.26198E-02	-0.43442
63	-1.3181	1.3181	0.43442	-0.69804
64	-0.96473	0.96473	0.69804	-0.89099
65	-0.64840	0.64840	0.89099	-1.0207
66	-0.36852	0.36852	1.0207	-1.0944
67	-0.12438	0.12438	1.0944	-1.1192
68	8.47636E-02	-8.47636E-02	1.1192	-1.1023
69	0.25967	-0.25967	1.1023	-1.0504

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70 0.40110 -0.40110 1.0504 -0.97014
71 0.50978 -0.50978 0.97014 -0.86818
72 0.58635 -0.58635 0.86818 -0.75091
73 0.63143 -0.63143 0.75091 -0.62462
74 0.64553 -0.64553 0.62462 -0.49552
75 0.62907 -0.62907 0.49552 -0.36970
76 0.58240 -0.58240 0.36970 -0.25322
77 0.50578 -0.50578 0.25322 -0.15207
78 0.39938 -0.39938 0.15207 -7.21915E-02
79 0.26332 -0.26332 7.21915E-02-1.95283E-02
80 9.76369E-02-9.76369E-02 1.95283E-02 1.21592E-12

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ITER 0 RNORM = 0.000 RMNORM= 0.000
RINORM=0.1045E+06 RIMNOR=0.1230E+05
RENORM= 368.5 REMNOR=0.4747E-21 RATIO =0.5937E-01 TOLER =0.1000E-03 NOT CONVERGED
RFMAX = 45.22 RMMAX = 18.49
RTSMAL=0.1000E-03 RMSMAL=0.1000E-03
RDT =0.1045E+06 RDR =0.1230E+05
RATIOT=0.5937E-01 RATIO= 0.000
MAX UN= 5.177 IEQ= 21 NODE 11 DOF 1 Y-DISPL.F
MIN UN=-.3441E-01 IEQ= 11 NODE 6 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

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ITER 2 RNORM = 0.000 RMNORM= 0.000
RINORM=0.1045E+06 RIMNOR=0.1230E+05
RENORM= 83.90 REMNOR=0.1198E-20 RATIO =0.2833E-01 TOLER =0.1000E-03 NOT CONVERGED
RFMAX = 45.22 RMMAX = 18.49
RTSMAL=0.1000E-03 RMSMAL=0.1000E-03
RDT =0.1045E+06 RDR =0.1230E+05
RATIOT=0.2833E-01 RATIO= 0.000
MAX UN= 2.693 IEQ= 23 NODE 12 DOF 1 Y-DISPL.F
MIN UN=-.3455E-02 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=0.1045E+06 RIMNOR=0.1230E+05
RENORM= 54.43 REMNOR=0.5024E-19 RATIO =0.2282E-01 TOLER =0.1000E-03 NOT CONVERGED
RFMAX = 45.22 RMMAX = 18.49
RTSMAL=0.1000E-03 RMSMAL=0.1000E-03
RDT =0.1045E+06 RDR =0.1230E+05
RATIOT=0.2282E-01 RATIO= 0.000
MAX UN= 4.483 IEQ= 59 NODE 30 DOF 1 Y-DISPL.F
MIN UN=-.1667E-08 IEQ= 17 NODE 9 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

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ITER 4 RNORM = 0.000 RMNORM= 0.000
RINORM=0.1045E+06 RIMNOR=0.1230E+05
RENORM= 1.698 REMNOR=0.1578E-19 RATIO =0.4030E-02 TOLER =0.1000E-03 NOT CONVERGED
RFMAX = 45.22 RMMAX = 18.49
RTSMAL=0.1000E-03 RMSMAL=0.1000E-03
RDT =0.1045E+06 RDR =0.1230E+05
RATIOT=0.4030E-02 RATIO= 0.000
MAX UN= 1.129 IEQ= 73 NODE 37 DOF 1 Y-DISPL.F
MIN UN=-.6174E-09 IEQ= 1 NODE 1 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

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ITER 5 RNORM = 0.000 RMNORM= 0.000
RINORM=0.1045E+06 RIMNOR=0.1230E+05
RENORM=0.2846E-17 REMNOR=0.1138E-19 RATIO =0.5218E-11 TOLER =0.1000E-03 CONVERGED !
RFMAX = 45.22 RMMAX = 18.49
RTSMAL=0.1000E-03 RMSMAL=0.1000E-03
RDT =0.1045E+06 RDR =0.1230E+05
RATIOT=0.5218E-11 RATIO= 0.000
MAX UN=0.7024E-09 IEQ= 7 NODE 4 DOF 1 Y-DISPL.F
MIN UN=-.7165E-09 IEQ= 5 NODE 3 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

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|                PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
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|                NewProject.BaseDesignSection_28.A1M1R1_1757  |
|                Exe Time :24 May 2018  18:25:47  |
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New Project  
SOLUTION REACHED USING 5 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	2.1178149E-03	-3.3657996E-04	
2	2.0504989E-03	-3.3657996E-04	
3	1.9831834E-03	-3.3657313E-04	
4	1.9158715E-03	-3.3653893E-04	
5	1.8485719E-03	-3.3644306E-04	
6	1.7813016E-03	-3.3623735E-04	
7	1.7140885E-03	-3.3585976E-04	
8	1.6469742E-03	-3.3523432E-04	
9	1.5800173E-03	-3.3427107E-04	
10	1.5132953E-03	-3.3286593E-04	
11	1.4469082E-03	-3.3090086E-04	
12	1.3809810E-03	-3.2824391E-04	
13	1.3156637E-03	-3.2479101E-04	
14	1.2511200E-03	-3.2050804E-04	
15	1.1875136E-03	-3.1542859E-04	
16	1.1249973E-03	-3.0961751E-04	
17	1.0637109E-03	-3.0313668E-04	
18	1.0037830E-03	-2.9604527E-04	
19	9.4532977E-04	-2.8839967E-04	
20	8.8845653E-04	-2.8025366E-04	
21	8.3325851E-04	-2.7165865E-04	
22	7.7982002E-04	-2.6266366E-04	
23	7.2821658E-04	-2.5331573E-04	
24	6.7851425E-04	-2.4365997E-04	
25	6.3077021E-04	-2.3373986E-04	
26	5.8503312E-04	-2.2359739E-04	
27	5.4134358E-04	-2.1327333E-04	
28	4.9973348E-04	-2.0280731E-04	
29	4.6022752E-04	-1.9223837E-04	
30	4.2284243E-04	-1.8160494E-04	
31	3.8758730E-04	-1.7094518E-04	
32	3.5446373E-04	-1.6029728E-04	
33	3.2346522E-04	-1.4969941E-04	
34	2.9457805E-04	-1.3919036E-04	
35	2.6778052E-04	-1.2880957E-04	
36	2.4304298E-04	-1.1859734E-04	
37	2.2032769E-04	-1.0859515E-04	
38	1.9958818E-04	-9.8845707E-05	
39	1.8076960E-04	-8.9393471E-05	
40	1.6380790E-04	-8.0284647E-05	
41	1.4862992E-04	-7.1563091E-05	
42	1.3515449E-04	-6.3264183E-05	
43	1.2329436E-04	-5.5413599E-05	
44	1.1295801E-04	-4.8028570E-05	
45	1.0405127E-04	-4.1119120E-05	
46	9.6478484E-05	-3.4688549E-05	
47	9.0144124E-05	-2.8733842E-05	
48	8.4953803E-05	-2.3246287E-05	
49	8.0815346E-05	-1.8212675E-05	
50	7.7639593E-05	-1.3616391E-05	
51	7.5340927E-05	-9.4383101E-06	
52	7.3837734E-05	-5.6577423E-06	
53	7.3052722E-05	-2.2536840E-06	
54	7.2912657E-05	7.9564637E-07	
55	7.3348697E-05	3.5107333E-06	
56	7.4295960E-05	5.9109645E-06	
57	7.5693265E-05	8.0139181E-06	
58	7.7482728E-05	9.8348916E-06	
59	7.9609263E-05	1.1386487E-05	
60	8.2020001E-05	1.2678254E-05	
61	8.4663655E-05	1.3716383E-05	
62	8.7489817E-05	1.4503453E-05	
63	9.0449590E-05	1.5058833E-05	
64	9.3500349E-05	1.5419190E-05	
65	9.6606527E-05	1.5618459E-05	
66	9.9739071E-05	1.5687809E-05	
67	1.0287488E-04	1.5655621E-05	
68	1.0599626E-04	1.5547483E-05	
69	1.0909033E-04	1.5386204E-05	
70	1.1214853E-04	1.5191821E-05	
71	1.1516601E-04	1.4981629E-05	
72	1.1814110E-04	1.4770202E-05	
73	1.2107480E-04	1.4569423E-05	

74	1.2397019E-04	1.4388507E-05
75	1.2683196E-04	1.4234030E-05
76	1.2966583E-04	1.4109950E-05
77	1.3247806E-04	1.4017629E-05
78	1.3527492E-04	1.3955843E-05
79	1.3806218E-04	1.3920799E-05
80	1.4084460E-04	1.3906141E-05
81	1.4362554E-04	1.3902953E-05

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|                PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
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NewProject.BaseDesignSection\_28.A1M1R1\_1757  
Exe Time :24 May 2018 18:25:47

New Project

STRESS RESULTS FOR GROUP NO. 1

0\_L :  
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 81  
CURRENT TIME IS 3.0000

HARDENING 2D SOIL ELEMENT

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

EL * FACTOR	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
1 D	0.000	-2.1178E-03	0.000	0.000	0.000	0.000	ACTIVE	0.000	0.000	0.000	
1.000	1.000	0.000	0.000	0.000	Ug5_2_8_L_0						
2 D	0.4800	-2.0505E-03	2.143	0.5335	2.143	1.690	ACTIVE	0.000	-0.2000	1.867	
1.000	1.000	2.400	0.000	0.000	Ug5_2_8_L_0						
3 D	0.9624	-1.9832E-03	4.332	1.079	4.332	3.281	ACTIVE	0.000	-0.4000	3.733	
1.000	1.000	4.812	0.000	0.000	Ug5_2_8_L_0						
4 D	1.448	-1.9159E-03	6.582	1.639	6.582	4.727	ACTIVE	0.000	-0.6000	5.600	
1.000	1.000	7.239	0.000	0.000	Ug5_2_8_L_0						
5 D	1.935	-1.8486E-03	8.876	2.210	8.876	6.034	ACTIVE	0.000	-0.8000	7.467	
1.000	1.000	9.677	0.000	0.000	Ug5_2_8_L_0						
6 D	2.424	-1.7813E-03	11.19	2.786	11.19	7.235	ACTIVE	0.000	-1.000	9.333	
1.000	1.000	12.12	0.000	0.000	Ug5_2_8_L_0						
7 D	2.913	-1.7141E-03	13.50	3.363	13.50	8.362	ACTIVE	0.000	-1.200	11.20	
1.000	1.000	14.56	0.000	0.000	Ug5_2_8_L_0						
8 D	3.407	-1.6470E-03	15.94	3.970	15.94	9.440	ACTIVE	0.000	-1.400	13.07	
1.000	1.000	17.04	0.000	0.000	Ug5_2_8_L_0						
9 D	3.904	-1.5800E-03	18.42	4.587	18.42	10.49	ACTIVE	0.000	-1.600	14.93	
1.000	1.000	19.52	0.000	0.000	Ug5_2_8_L_0						
10 D	4.389	-1.5133E-03	20.66	5.144	20.66	11.51	ACTIVE	0.000	-1.800	16.80	
1.000	1.000	21.94	0.000	0.000	Ug5_2_8_L_0						
11 D	4.881	-1.4469E-03	23.05	5.739	23.05	12.52	ACTIVE	0.000	-2.000	18.67	
1.000	1.000	24.41	0.000	0.000	Ug5_2_8_L_0						
12 D	5.371	-1.3810E-03	25.39	6.323	25.39	13.53	ACTIVE	0.000	-2.200	20.53	
1.000	1.000	26.86	0.000	0.000	Ug5_2_8_L_0						
13 D	5.853	-1.3157E-03	27.57	6.866	27.57	14.52	ACTIVE	0.000	-2.400	22.40	
1.000	1.000	29.27	0.000	0.000	Ug5_2_8_L_0						
14 D	6.341	-1.2511E-03	29.88	7.439	29.88	15.52	ACTIVE	0.000	-2.600	24.27	
1.000	1.000	31.71	0.000	0.000	Ug5_2_8_L_0						
15 D	6.828	-1.1875E-03	32.16	8.007	32.16	16.51	ACTIVE	0.000	-2.800	26.13	
1.000	1.000	34.14	0.000	0.000	Ug5_2_8_L_0						
16 D	7.314	-1.1250E-03	34.42	8.570	34.42	17.49	ACTIVE	0.000	-3.000	28.00	
1.000	1.000	36.57	0.000	0.000	Ug5_2_8_L_0						
17 D	7.794	-1.0637E-03	36.56	9.105	36.56	18.48	ACTIVE	0.000	-3.200	29.87	
1.000	1.000	38.97	0.000	0.000	Ug5_2_8_L_0						
18 D	8.279	-1.0038E-03	38.81	9.663	38.81	19.47	ACTIVE	0.000	-3.400	31.73	
1.000	1.000	41.40	0.000	0.000	Ug5_2_8_L_0						
19 D	8.764	-9.4533E-04	41.04	10.22	41.04	20.46	ACTIVE	0.000	-3.600	33.60	
1.000	1.000	43.82	0.000	0.000	Ug5_2_8_L_0						
20 D	9.243	-8.8846E-04	43.17	10.75	43.17	21.44	ACTIVE	0.000	-3.800	35.47	
1.000	1.000	46.22	0.000	0.000	Ug5_2_8_L_0						
21 D	9.727	-8.3326E-04	45.39	11.30	45.39	22.43	ACTIVE	0.000	-4.000	37.33	
1.000	1.000	48.64	0.000	0.000	Ug5_2_8_L_0						
22 D	10.21	-7.7982E-04	47.60	11.85	47.60	23.42	ACTIVE	0.000	-4.200	39.20	
1.000	1.000	51.05	0.000	0.000	Ug5_2_8_L_0						
23 D	10.69	-7.2822E-04	49.73	12.38	49.73	24.40	ACTIVE	0.000	-4.400	41.07	
1.000	1.000	53.45	0.000	0.000	Ug5_2_8_L_0						
24 D	11.17	-6.7851E-04	51.93	12.93	51.93	25.39	ACTIVE	0.000	-4.600	42.93	
1.000	1.000	55.86	0.000	0.000	Ug5_2_8_L_0						
25 D	11.66	-6.3077E-04	54.13	13.48	54.13	26.38	ACTIVE	0.000	-4.800	44.80	
1.000	1.000	58.28	0.000	0.000	Ug5_2_8_L_0						
26 D	12.14	-5.8503E-04	56.32	14.02	56.32	27.37	ACTIVE	0.000	-5.000	46.67	
1.000	1.000	60.69	0.000	0.000	Ug5_2_8_L_0						
27 D	12.62	-5.4134E-04	58.45	14.55	58.45	28.36	ACTIVE	0.000	-5.200	48.53	
1.000	1.000	63.09	0.000	0.000	Ug5_2_8_L_0						
28 D	13.10	-4.9973E-04	60.63	15.10	60.63	29.35	ACTIVE	0.000	-5.400	50.40	
1.000	1.000	65.50	0.000	0.000	Ug5_2_8_L_0						
29 D	13.58	-4.6023E-04	62.81	15.64	62.81	30.34	ACTIVE	0.000	-5.600	52.27	
1.000	1.000	67.91	0.000	0.000	Ug5_2_8_L_0						
30 D	14.06	-4.2284E-04	64.94	16.17	64.94	31.34	ACTIVE	0.000	-5.800	54.13	
1.000	1.000	70.30	0.000	0.000	Ug5_2_8_L_0						
31 D	14.54	-3.8759E-04	67.11	16.71	67.11	32.33	ACTIVE	0.000	-6.000	56.00	
1.000	1.000	72.71	0.000	0.000	Ug5_2_8_L_0						
32 D	15.02	-3.5446E-04	69.29	17.25	69.29	33.33	ACTIVE	0.000	-6.200	57.87	
1.000	1.000	75.12	0.000	0.000	Ug5_2_8_L_0						
33 D	15.50	-3.2347E-04	71.41	17.78	71.41	34.32	ACTIVE	0.000	-6.400	59.73	

1.000	1.000	77.51	0.000	0.000	Ug5_2_8_L_0					
34 D	15.98	-2.9458E-04	73.58	18.32	73.58	35.32	ACTIVE	0.000	-6.600	61.60
1.000	1.000	79.92	0.000	0.000	Ug5_2_8_L_0					
35 D	16.47	-2.6778E-04	75.75	18.86	75.75	36.32	ACTIVE	0.000	-6.800	63.47
1.000	1.000	82.33	0.000	0.000	Ug5_2_8_L_0					
36 D	16.95	-2.4304E-04	77.92	19.40	77.92	37.31	ACTIVE	0.000	-7.000	65.33
1.000	1.000	84.74	0.000	0.000	Ug5_2_8_L_0					
37 D	17.43	-2.2033E-04	80.04	19.93	80.04	38.31	ACTIVE	0.000	-7.200	67.20
1.000	1.000	87.13	0.000	0.000	Ug5_2_8_L_0					
38 D	17.91	-1.9959E-04	82.21	20.47	82.21	39.31	ACTIVE	0.000	-7.400	69.07
1.000	1.000	89.54	0.000	0.000	Ug5_2_8_L_0					
39 D	18.39	-1.8077E-04	84.37	21.01	84.37	40.31	ACTIVE	0.000	-7.600	70.93
1.000	1.000	91.94	0.000	0.000	Ug5_2_8_L_0					
40 D	19.17	-1.6381E-04	86.49	23.07	86.49	41.31	UL-RL	1.1282E+05	-7.800	72.80
1.000	1.000	95.87	0.000	0.000	Ug5_2_8_L_0					
41 D	20.10	-1.4863E-04	88.65	25.84	88.65	42.32	UL-RL	1.1282E+05	-8.000	74.67
1.000	1.000	100.5	0.000	0.000	Ug5_2_8_L_0					
42 D	20.99	-1.3515E-04	90.82	28.40	90.82	43.32	UL-RL	1.1282E+05	-8.200	76.53
1.000	1.000	104.9	0.000	0.000	Ug5_2_8_L_0					
43 D	21.84	-1.2329E-04	92.93	30.79	92.93	44.32	UL-RL	1.1282E+05	-8.400	78.40
1.000	1.000	109.2	0.000	0.000	Ug5_2_8_L_0					
44 D	22.65	-1.1296E-04	95.09	32.99	95.09	45.33	UL-RL	1.1282E+05	-8.600	80.27
1.000	1.000	113.3	0.000	0.000	Ug5_2_8_L_0					
45 D	23.43	-1.0405E-04	97.25	35.04	97.25	46.33	UL-RL	1.1282E+05	-8.800	82.13
1.000	1.000	117.2	0.000	0.000	Ug5_2_8_L_0					
46 D	24.19	-9.6478E-05	99.41	36.93	99.41	47.34	UL-RL	1.1282E+05	-9.000	84.00
1.000	1.000	120.9	0.000	0.000	Ug5_2_8_L_0					
47 D	24.91	-9.0144E-05	101.5	38.68	101.5	48.35	UL-RL	1.1282E+05	-9.200	85.87
1.000	1.000	124.5	0.000	0.000	Ug5_2_8_L_0					
48 D	25.61	-8.4954E-05	103.7	40.30	103.7	49.36	UL-RL	1.1282E+05	-9.400	87.73
1.000	1.000	128.0	0.000	0.000	Ug5_2_8_L_0					
49 D	26.28	-8.0815E-05	105.8	41.80	105.8	50.36	UL-RL	1.1282E+05	-9.600	89.60
1.000	1.000	131.4	0.000	0.000	Ug5_2_8_L_0					
50 D	26.93	-7.7640E-05	108.0	43.19	108.0	51.37	UL-RL	1.1282E+05	-9.800	91.47
1.000	1.000	134.7	0.000	0.000	Ug5_2_8_L_0					
51 D	27.56	-7.5341E-05	110.1	44.48	110.1	52.38	UL-RL	1.1282E+05	-10.000	93.33
1.000	1.000	137.8	0.000	0.000	Ug5_2_8_L_0					
52 D	28.18	-7.3838E-05	112.3	45.68	112.3	53.39	UL-RL	1.1282E+05	-10.200	95.20
1.000	1.000	140.9	0.000	0.000	Ug5_2_8_L_0					
53 D	28.77	-7.3053E-05	114.4	46.80	114.4	54.40	UL-RL	1.1282E+05	-10.400	97.07
1.000	1.000	143.9	0.000	0.000	Ug5_2_8_L_0					
54 D	29.35	-7.2913E-05	116.5	47.84	116.5	55.42	UL-RL	1.1282E+05	-10.600	98.93
1.000	1.000	146.8	0.000	0.000	Ug5_2_8_L_0					
55 D	29.92	-7.3349E-05	118.7	48.82	118.7	56.43	UL-RL	1.1282E+05	-10.800	100.8
1.000	1.000	149.6	0.000	0.000	Ug5_2_8_L_0					
56 D	30.48	-7.4296E-05	120.8	49.74	120.8	57.44	UL-RL	1.1282E+05	-11.000	102.7
1.000	1.000	152.4	0.000	0.000	Ug5_2_8_L_0					
57 D	31.03	-7.5693E-05	123.0	50.61	123.0	58.46	UL-RL	1.1282E+05	-11.200	104.5
1.000	1.000	155.1	0.000	0.000	Ug5_2_8_L_0					
58 D	31.57	-7.7483E-05	125.1	51.43	125.1	59.47	UL-RL	1.1282E+05	-11.400	106.4
1.000	1.000	157.8	0.000	0.000	Ug5_2_8_L_0					
59 D	32.10	-7.9609E-05	127.3	52.22	127.3	60.48	UL-RL	1.1282E+05	-11.600	108.3
1.000	1.000	160.5	0.000	0.000	Ug5_2_8_L_0					
60 D	32.62	-8.2020E-05	129.4	52.97	129.4	61.50	UL-RL	1.1282E+05	-11.800	110.1
1.000	1.000	163.1	0.000	0.000	Ug5_2_8_L_0					
61 D	33.14	-8.4664E-05	131.5	53.70	131.5	62.52	UL-RL	1.1282E+05	-12.000	112.0
1.000	1.000	165.7	0.000	0.000	Ug5_2_8_L_0					
62 D	34.80	-8.7490E-05	133.5	60.16	133.5	63.43	UL-RL	5.4011E+04	-12.200	113.9
1.000	1.000	174.0	0.000	0.000	Ug6_741_743_L_0					
63 D	35.33	-9.0450E-05	135.4	60.94	135.4	64.35	UL-RL	5.4011E+04	-12.400	115.7
1.000	1.000	176.7	0.000	0.000	Ug6_741_743_L_0					
64 D	35.86	-9.3500E-05	137.4	61.71	137.4	65.27	UL-RL	5.4011E+04	-12.600	117.6
1.000	1.000	179.3	0.000	0.000	Ug6_741_743_L_0					
65 D	36.39	-9.6607E-05	139.3	62.48	139.3	66.18	UL-RL	5.4011E+04	-12.800	119.5
1.000	1.000	182.0	0.000	0.000	Ug6_741_743_L_0					
66 D	36.92	-9.9739E-05	141.2	63.26	141.2	67.10	UL-RL	5.4011E+04	-13.000	121.3
1.000	1.000	184.6	0.000	0.000	Ug6_741_743_L_0					
67 D	37.45	-1.0287E-04	143.1	64.03	143.1	68.02	UL-RL	5.4011E+04	-13.200	123.2
1.000	1.000	187.2	0.000	0.000	Ug6_741_743_L_0					
68 D	37.97	-1.0600E-04	145.0	64.80	145.0	68.94	UL-RL	5.4011E+04	-13.400	125.1
1.000	1.000	189.9	0.000	0.000	Ug6_741_743_L_0					
69 D	38.50	-1.0909E-04	146.9	65.58	146.9	69.86	UL-RL	5.4011E+04	-13.600	126.9
1.000	1.000	192.5	0.000	0.000	Ug6_741_743_L_0					
70 D	39.03	-1.1215E-04	148.8	66.36	148.8	70.78	UL-RL	5.4011E+04	-13.800	128.8
1.000	1.000	195.2	0.000	0.000	Ug6_741_743_L_0					
71 D	39.56	-1.1517E-04	150.7	67.14	150.7	71.70	UL-RL	5.4011E+04	-14.000	130.7
1.000	1.000	197.8	0.000	0.000	Ug6_741_743_L_0					
72 D	40.09	-1.1814E-04	152.6	67.93	152.6	72.62	UL-RL	5.4011E+04	-14.200	132.5
1.000	1.000	200.5	0.000	0.000	Ug6_741_743_L_0					
73 D	40.62	-1.2107E-04	154.5	68.72	154.5	73.54	UL-RL	5.4011E+04	-14.400	134.4
1.000	1.000	203.1	0.000	0.000	Ug6_741_743_L_0					
74 D	41.15	-1.2397E-04	156.4	69.51	156.4	74.46	UL-RL	5.4011E+04	-14.600	136.3
1.000	1.000	205.8	0.000	0.000	Ug6_741_743_L_0					
75 D	41.69	-1.2683E-04	158.3	70.30	158.3	75.38	UL-RL	5.4011E+04	-14.800	138.1
1.000	1.000	208.4	0.000	0.000	Ug6_741_743_L_0					
76 D	42.22	-1.2967E-04	160.2	71.10	160.2	76.31	UL-RL	5.4011E+04	-15.000	140.0
1.000	1.000	211.1	0.000	0.000	Ug6_741_743_L_0					
77 D	42.75	-1.3248E-04	162.1	71.89	162.1	77.23	UL-RL	5.4011E+04	-15.200	141.9
1.000	1.000	213.8	0.000	0.000	Ug6_741_743_L_0					
78 D	43.28	-1.3527E-04	164.0	72.69	164.0	78.15	UL-RL	5.4011E+04	-15.400	143.7
1.000	1.000	216.4	0.000	0.000	Ug6_741_743_L_0					

79 D	43.82	-1.3806E-04	165.9	73.49	165.9	79.07	UL-RL	5.4011E+04	-15.60	145.6
1.000	1.000	219.1	0.000	0.000	Ug6_741_743_L_0					
80 D	44.35	-1.4084E-04	167.8	74.29	167.8	80.00	UL-RL	5.4011E+04	-15.80	147.5
1.000	1.000	221.8	0.000	0.000	Ug6_741_743_L_0					
81 D	22.44	-1.4363E-04	169.7	75.09	169.7	80.92	UL-RL	5.4011E+04	-16.00	149.3
1.000	1.000	224.4	0.000	0.000	Ug6_741_743_L_0					

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|                PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*                |
|                                                                                                                                            |
|                                                                                                                                            |
|                NewProject.BaseDesignSection_28.A1M1R1_1757                                                                              |
|                Exe Time :24 May 2018      18:25:47                                                                              |
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New Project

STRESS RESULTS FOR GROUP NO. 2

0\_R  
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 81  
CURRENT TIME IS 3.0000

HARDENING 2D SOIL ELEMENT

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

EL * FACTOR	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
1	0.000	--	--	--	--	--	REMOVED	--	0.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
2	0.000	--	--	--	--	--	REMOVED	--	-0.2000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
3	0.000	--	--	--	--	--	REMOVED	--	-0.4000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
4	0.000	--	--	--	--	--	REMOVED	--	-0.6000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
5	0.000	--	--	--	--	--	REMOVED	--	-0.8000	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	--	-1.200	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
8	0.000	--	--	--	--	--	REMOVED	--	-1.400	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
9	0.000	--	--	--	--	--	REMOVED	--	-1.600	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
10	0.000	--	--	--	--	--	REMOVED	--	-1.800	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
11 D	0.000	1.4469E-03	0.000	0.000	20.00	15.90	PASSIVE	0.000	-2.000	0.000	
1.000	1.000	0.000	0.000	0.000	Ug5_2_8_L_0						
12 D	2.942	1.3810E-03	1.867	12.58	22.00	16.62	PASSIVE	0.000	-2.200	2.133	
1.000	1.000	14.71	0.000	0.000	Ug5_2_8_L_0						
13 D	5.884	1.3157E-03	3.733	25.16	24.00	25.16	PASSIVE	0.000	-2.400	4.267	
1.000	1.000	29.42	0.000	0.000	Ug5_2_8_L_0						
14 D	8.670	1.2511E-03	5.600	36.95	26.00	36.95	V-C	1.8697E+04	-2.600	6.400	
1.000	1.000	43.35	0.000	0.000	Ug5_2_8_L_0						
15 D	9.054	1.1875E-03	7.467	36.74	28.00	36.74	V-C	1.8697E+04	-2.800	8.533	
1.000	1.000	45.27	0.000	0.000	Ug5_2_8_L_0						
16 D	9.438	1.1250E-03	9.333	36.52	30.00	36.52	V-C	1.8697E+04	-3.000	10.67	
1.000	1.000	47.19	0.000	0.000	Ug5_2_8_L_0						
17 D	9.824	1.0637E-03	11.20	36.32	32.00	36.32	V-C	1.8697E+04	-3.200	12.80	
1.000	1.000	49.12	0.000	0.000	Ug5_2_8_L_0						
18 D	10.21	1.0038E-03	13.07	36.13	34.00	36.13	V-C	1.8697E+04	-3.400	14.93	
1.000	1.000	51.07	0.000	0.000	Ug5_2_8_L_0						
19 D	10.61	9.4533E-04	14.93	35.97	36.00	35.97	V-C	1.8697E+04	-3.600	17.07	
1.000	1.000	53.04	0.000	0.000	Ug5_2_8_L_0						
20 D	11.01	8.8846E-04	16.80	35.84	38.00	35.84	V-C	1.8697E+04	-3.800	19.20	
1.000	1.000	55.04	0.000	0.000	Ug5_2_8_L_0						
21 D	11.41	8.3326E-04	18.67	35.73	40.00	35.73	V-C	1.8697E+04	-4.000	21.33	
1.000	1.000	57.07	0.000	0.000	Ug5_2_8_L_0						
22 D	11.83	7.7982E-04	20.53	35.66	42.00	35.66	V-C	1.8697E+04	-4.200	23.47	
1.000	1.000	59.13	0.000	0.000	Ug5_2_8_L_0						
23 D	12.25	7.2822E-04	22.40	35.63	44.00	35.63	V-C	1.8697E+04	-4.400	25.60	
1.000	1.000	61.23	0.000	0.000	Ug5_2_8_L_0						
24 D	12.67	6.7851E-04	24.27	35.63	46.00	35.63	V-C	1.8697E+04	-4.600	27.73	
1.000	1.000	63.36	0.000	0.000	Ug5_2_8_L_0						
25 D	13.11	6.3077E-04	26.13	35.66	48.00	35.66	V-C	1.8697E+04	-4.800	29.87	
1.000	1.000	65.53	0.000	0.000	Ug5_2_8_L_0						
26 D	13.55	5.8503E-04	28.00	35.74	50.00	35.74	V-C	1.8697E+04	-5.000	32.00	
1.000	1.000	67.74	0.000	0.000	Ug5_2_8_L_0						
27 D	14.00	5.4134E-04	29.87	35.86	52.00	35.86	V-C	1.8697E+04	-5.200	34.13	
1.000	1.000	69.99	0.000	0.000	Ug5_2_8_L_0						
28 D	14.46	4.9973E-04	31.73	36.02	54.00	36.02	V-C	1.8697E+04	-5.400	36.27	
1.000	1.000	72.29	0.000	0.000	Ug5_2_8_L_0						
29 D	14.92	4.6023E-04	33.60	36.22	56.00	36.22	V-C	1.8697E+04	-5.600	38.40	
1.000	1.000	74.62	0.000	0.000	Ug5_2_8_L_0						
30 D	15.40	4.2284E-04	35.47	36.46	58.00	36.46	V-C	1.8697E+04	-5.800	40.53	
1.000	1.000	76.99	0.000	0.000	Ug5_2_8_L_0						
31 D	15.88	3.8759E-04	37.33	36.74	60.00	36.74	V-C	1.8697E+04	-6.000	42.67	
1.000	1.000	79.41	0.000	0.000	Ug5_2_8_L_0						
32 D	16.37	3.5446E-04	39.20	37.07	62.00	37.07	V-C	1.8697E+04	-6.200	44.80	
1.000	1.000	81.87	0.000	0.000	Ug5_2_8_L_0						
33 D	16.87	3.2347E-04	41.07	37.44	64.00	37.44	V-C	1.8697E+04	-6.400	46.93	

1.000	1.000	84.37	0.000	0.000	Ug5_2_8_L_0					
34 D	17.38	2.9458E-04	42.93	37.85	66.00	37.85	V-C	1.8697E+04	-6.600	49.07
1.000	1.000	86.91	0.000	0.000	Ug5_2_8_L_0					
35 D	17.90	2.6778E-04	44.80	38.30	68.00	38.30	V-C	1.8697E+04	-6.800	51.20
1.000	1.000	89.50	0.000	0.000	Ug5_2_8_L_0					
36 D	18.42	2.4304E-04	46.67	38.79	70.00	38.79	V-C	1.8697E+04	-7.000	53.33
1.000	1.000	92.12	0.000	0.000	Ug5_2_8_L_0					
37 D	18.96	2.2033E-04	48.53	39.32	72.00	39.32	V-C	1.8697E+04	-7.200	55.47
1.000	1.000	94.78	0.000	0.000	Ug5_2_8_L_0					
38 D	19.50	1.9959E-04	50.40	39.88	74.00	39.88	V-C	1.8697E+04	-7.400	57.60
1.000	1.000	97.48	0.000	0.000	Ug5_2_8_L_0					
39 D	20.04	1.8077E-04	52.27	40.49	76.00	40.49	V-C	1.8697E+04	-7.600	59.73
1.000	1.000	100.2	0.000	0.000	Ug5_2_8_L_0					
40 D	20.60	1.6381E-04	54.13	41.13	78.00	41.13	V-C	1.8697E+04	-7.800	61.87
1.000	1.000	103.0	0.000	0.000	Ug5_2_8_L_0					
41 D	21.16	1.4863E-04	56.00	41.81	80.00	41.81	V-C	1.8697E+04	-8.000	64.00
1.000	1.000	105.8	0.000	0.000	Ug5_2_8_L_0					
42 D	21.73	1.3515E-04	57.87	42.52	82.00	42.52	V-C	1.8697E+04	-8.200	66.13
1.000	1.000	108.7	0.000	0.000	Ug5_2_8_L_0					
43 D	22.30	1.2329E-04	59.73	43.26	84.00	43.26	V-C	1.8697E+04	-8.400	68.27
1.000	1.000	111.5	0.000	0.000	Ug5_2_8_L_0					
44 D	22.89	1.1296E-04	61.60	44.03	86.00	44.03	V-C	1.8697E+04	-8.600	70.40
1.000	1.000	114.4	0.000	0.000	Ug5_2_8_L_0					
45 D	23.44	1.0405E-04	63.47	44.65	88.00	44.91	UL-RL	5.6090E+04	-8.800	72.53
1.000	1.000	117.2	0.000	0.000	Ug5_2_8_L_0					
46 D	23.97	9.6478E-05	65.33	45.18	90.00	45.89	UL-RL	5.6090E+04	-9.000	74.67
1.000	1.000	119.8	0.000	0.000	Ug5_2_8_L_0					
47 D	24.51	9.0144E-05	67.20	45.77	92.00	46.86	UL-RL	5.6090E+04	-9.200	76.80
1.000	1.000	122.6	0.000	0.000	Ug5_2_8_L_0					
48 D	25.07	8.4954E-05	69.07	46.43	94.00	47.84	UL-RL	5.6090E+04	-9.400	78.93
1.000	1.000	125.4	0.000	0.000	Ug5_2_8_L_0					
49 D	25.64	8.0815E-05	70.93	47.15	96.00	48.82	UL-RL	5.6090E+04	-9.600	81.07
1.000	1.000	128.2	0.000	0.000	Ug5_2_8_L_0					
50 D	26.23	7.7640E-05	72.80	47.93	98.00	49.79	UL-RL	5.6090E+04	-9.800	83.20
1.000	1.000	131.1	0.000	0.000	Ug5_2_8_L_0					
51 D	26.82	7.5341E-05	74.67	48.76	100.00	50.77	UL-RL	5.6090E+04	-10.00	85.33
1.000	1.000	134.1	0.000	0.000	Ug5_2_8_L_0					
52 D	27.42	7.3838E-05	76.53	49.63	102.0	51.75	UL-RL	5.6090E+04	-10.20	87.47
1.000	1.000	137.1	0.000	0.000	Ug5_2_8_L_0					
53 D	28.03	7.3053E-05	78.40	50.55	104.0	52.73	UL-RL	5.6090E+04	-10.40	89.60
1.000	1.000	140.1	0.000	0.000	Ug5_2_8_L_0					
54 D	28.65	7.2913E-05	80.27	51.50	106.0	53.71	UL-RL	5.6090E+04	-10.60	91.73
1.000	1.000	143.2	0.000	0.000	Ug5_2_8_L_0					
55 D	29.27	7.3349E-05	82.13	52.49	108.0	54.69	UL-RL	5.6090E+04	-10.80	93.87
1.000	1.000	146.4	0.000	0.000	Ug5_2_8_L_0					
56 D	29.90	7.4296E-05	84.00	53.50	110.0	55.67	UL-RL	5.6090E+04	-11.00	96.00
1.000	1.000	149.5	0.000	0.000	Ug5_2_8_L_0					
57 D	30.54	7.5693E-05	85.87	54.54	112.0	56.65	UL-RL	5.6090E+04	-11.20	98.13
1.000	1.000	152.7	0.000	0.000	Ug5_2_8_L_0					
58 D	31.17	7.7483E-05	87.73	55.61	114.0	57.63	UL-RL	5.6090E+04	-11.40	100.3
1.000	1.000	155.9	0.000	0.000	Ug5_2_8_L_0					
59 D	31.82	7.9609E-05	89.60	56.69	116.0	58.61	UL-RL	5.6090E+04	-11.60	102.4
1.000	1.000	159.1	0.000	0.000	Ug5_2_8_L_0					
60 D	32.46	8.2020E-05	91.47	57.79	118.0	59.60	UL-RL	5.6090E+04	-11.80	104.5
1.000	1.000	162.3	0.000	0.000	Ug5_2_8_L_0					
61 D	33.11	8.4664E-05	93.33	58.91	120.0	60.58	UL-RL	5.6090E+04	-12.00	106.7
1.000	1.000	165.6	0.000	0.000	Ug5_2_8_L_0					
62 D	33.47	8.7490E-05	95.00	58.55	121.8	61.46	UL-RL	4.2179E+04	-12.20	108.8
1.000	1.000	167.3	0.000	0.000	Ug6_741_743_L_0					
63 D	34.09	9.0450E-05	96.67	59.53	123.6	62.35	UL-RL	4.2179E+04	-12.40	110.9
1.000	1.000	170.5	0.000	0.000	Ug6_741_743_L_0					
64 D	34.72	9.3500E-05	98.33	60.53	125.4	63.23	UL-RL	4.2179E+04	-12.60	113.1
1.000	1.000	173.6	0.000	0.000	Ug6_741_743_L_0					
65 D	35.34	9.6607E-05	100.00	61.52	127.2	64.12	UL-RL	4.2179E+04	-12.80	115.2
1.000	1.000	176.7	0.000	0.000	Ug6_741_743_L_0					
66 D	35.97	9.9739E-05	101.7	62.52	129.0	65.01	UL-RL	4.2179E+04	-13.00	117.3
1.000	1.000	179.8	0.000	0.000	Ug6_741_743_L_0					
67 D	36.60	1.0287E-04	103.3	63.51	130.8	65.89	UL-RL	4.2179E+04	-13.20	119.5
1.000	1.000	183.0	0.000	0.000	Ug6_741_743_L_0					
68 D	37.22	1.0600E-04	105.0	64.51	132.6	66.78	UL-RL	4.2179E+04	-13.40	121.6
1.000	1.000	186.1	0.000	0.000	Ug6_741_743_L_0					
69 D	37.85	1.0909E-04	106.7	65.50	134.4	67.67	UL-RL	4.2179E+04	-13.60	123.7
1.000	1.000	189.2	0.000	0.000	Ug6_741_743_L_0					
70 D	38.47	1.1215E-04	108.3	66.50	136.2	68.55	UL-RL	4.2179E+04	-13.80	125.9
1.000	1.000	192.4	0.000	0.000	Ug6_741_743_L_0					
71 D	39.10	1.1517E-04	110.0	67.49	138.0	69.44	UL-RL	4.2179E+04	-14.00	128.0
1.000	1.000	195.5	0.000	0.000	Ug6_741_743_L_0					
72 D	39.72	1.1814E-04	111.7	68.48	139.8	70.33	UL-RL	4.2179E+04	-14.20	130.1
1.000	1.000	198.6	0.000	0.000	Ug6_741_743_L_0					
73 D	40.35	1.2107E-04	113.3	69.46	141.6	71.22	UL-RL	4.2179E+04	-14.40	132.3
1.000	1.000	201.7	0.000	0.000	Ug6_741_743_L_0					
74 D	40.97	1.2397E-04	115.0	70.45	143.4	72.11	UL-RL	4.2179E+04	-14.60	134.4
1.000	1.000	204.8	0.000	0.000	Ug6_741_743_L_0					
75 D	41.59	1.2683E-04	116.7	71.43	145.2	73.00	UL-RL	4.2179E+04	-14.80	136.5
1.000	1.000	208.0	0.000	0.000	Ug6_741_743_L_0					
76 D	42.22	1.2967E-04	118.3	72.42	147.0	73.89	UL-RL	4.2179E+04	-15.00	138.7
1.000	1.000	211.1	0.000	0.000	Ug6_741_743_L_0					
77 D	42.84	1.3248E-04	120.0	73.40	148.8	74.78	UL-RL	4.2179E+04	-15.20	140.8
1.000	1.000	214.2	0.000	0.000	Ug6_741_743_L_0					
78 D	43.46	1.3527E-04	121.7	74.38	150.6	75.67	UL-RL	4.2179E+04	-15.40	142.9
1.000	1.000	217.3	0.000	0.000	Ug6_741_743_L_0					

79 D	44.09	1.3806E-04	123.3	75.36	152.4	76.56	UL-RL	4.2179E+04	-15.60	145.1
1.000	1.000	220.4	0.000	0.000	Ug6_741_743_L_0					
80 D	44.71	1.4084E-04	125.0	76.35	154.2	77.45	UL-RL	4.2179E+04	-15.80	147.2
1.000	1.000	223.5	0.000	0.000	Ug6_741_743_L_0					
81 D	22.67	1.4363E-04	126.7	77.33	156.0	78.34	UL-RL	4.2179E+04	-16.00	149.3
1.000	1.000	226.7	0.000	0.000	Ug6_741_743_L_0					



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|                PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
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New Project

STRESS RESULTS FOR GROUP NO. 3

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WallElement_33      :
ELEMENT TYPE      2 NO.OF ELEMENTS. IN THIS GROUP      80
CURRENT TIME IS    3.0000

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WALL2D ELEMENT

EL	TA	TB	MA	MB
1	-4.34397E-10	4.34397E-10	-4.35705E-11	-2.58638E-11
2	0.48004	-0.48004	-4.16476E-11	9.60077E-02
3	1.4424	-1.4424	-9.60077E-02	0.38450
4	2.8902	-2.8902	-0.38450	0.96254
5	4.8256	-4.8256	-0.96254	1.9277
6	7.2495	-7.2495	-1.9277	3.3776
7	10.162	-10.162	-3.3776	5.4100
8	13.569	-13.569	-5.4100	8.1239
9	17.473	-17.473	-8.1239	11.619
10	21.862	-21.862	-11.619	15.991
11	26.743	-26.743	-15.991	21.340
12	29.172	-29.172	-21.340	27.174
13	29.141	-29.141	-27.174	33.002
14	26.812	-26.812	-33.002	38.365
15	24.586	-24.586	-38.365	43.282
16	22.462	-22.462	-43.282	47.775
17	20.433	-20.433	-47.775	51.861
18	18.499	-18.499	-51.861	55.561
19	16.655	-16.655	-55.561	58.892
20	14.891	-14.891	-58.892	61.870
21	13.205	-13.205	-61.870	64.511
22	11.590	-11.590	-64.511	66.829
23	10.035	-10.035	-66.829	68.836
24	8.5359	-8.5359	-68.836	70.543
25	7.0855	-7.0855	-70.543	71.960
26	5.6753	-5.6753	-71.960	73.095
27	4.2939	-4.2939	-73.095	73.954
28	2.9363	-2.9363	-73.954	74.541
29	1.5940	-1.5940	-74.541	74.860
30	0.25562	-0.25562	-74.860	74.911
31	-1.0844	1.0844	-74.911	74.694
32	-2.4345	2.4345	-74.694	74.208
33	-3.8058	3.8058	-74.208	73.446
34	-5.2041	5.2041	-73.446	72.406
35	-6.6375	6.6375	-72.406	71.078
36	-8.1143	8.1143	-71.078	69.455
37	-9.6448	9.6448	-69.455	67.526
38	-11.234	11.234	-67.526	65.279
39	-12.891	12.891	-65.279	62.701
40	-14.315	14.315	-62.701	59.838
41	-15.376	15.376	-59.838	56.763
42	-16.119	16.119	-56.763	53.539
43	-16.587	16.587	-53.539	50.222
44	-16.821	16.821	-50.222	46.858
45	-16.824	16.824	-46.858	43.493
46	-16.606	16.606	-43.493	40.172
47	-16.212	16.212	-40.172	36.929
48	-15.678	15.678	-36.929	33.794
49	-15.043	15.043	-33.794	30.785
50	-14.338	14.338	-30.785	27.918
51	-13.594	13.594	-27.918	25.199
52	-12.838	12.838	-25.199	22.631
53	-12.095	12.095	-22.631	20.212
54	-11.386	11.386	-20.212	17.935
55	-10.733	10.733	-17.935	15.789
56	-10.151	10.151	-15.789	13.758
57	-9.6580	9.6580	-13.758	11.827
58	-9.2660	9.2660	-11.827	9.9735
59	-8.9872	8.9872	-9.9735	8.1761
60	-8.8311	8.8311	-8.1761	6.4098
61	-8.8060	8.8060	-6.4098	4.6486
62	-7.4705	7.4705	-4.6486	3.1545
63	-6.2301	6.2301	-3.1545	1.9085
64	-5.0864	5.0864	-1.9085	0.89124
65	-4.0405	4.0405	-0.89124	8.31392E-02
66	-3.0927	3.0927	-8.31392E-02	-0.53539
67	-2.2428	2.2428	0.53539	-0.98395
68	-1.4905	1.4905	0.98395	-1.2821
69	-0.83503	0.83503	1.2821	-1.4491

70	-0.27557	0.27557	1.4491	-1.5042
71	0.18883	-0.18883	1.5042	-1.4664
72	0.55914	-0.55914	1.4664	-1.3546
73	0.83628	-0.83628	1.3546	-1.1873
74	1.0211	-1.0211	1.1873	-0.98310
75	1.1144	-1.1144	0.98310	-0.76023
76	1.1167	-1.1167	0.76023	-0.53690
77	1.0285	-1.0285	0.53690	-0.33120
78	0.85017	-0.85017	0.33120	-0.16117
79	0.58194	-0.58194	0.16117	-4.47825E-02
80	0.22390	-0.22390	4.47825E-02	-1.69953E-12

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ITER      0  RNORM = 0.000      RMNORM= 0.000
            RINORM=0.1172E+06  RIMNOR=0.2836E+06
            RENORM= 614.3      REMNOR=0.1138E-19  RATIO =0.7239E-01  TOLER =0.1000E-03  NOT CONVERGED
            RFMAX = 43.77      RMMAX = 74.91
            RTSMAL=0.1000E-03  RMSMAL=0.1000E-03
            RDT =0.1172E+06    RDR =0.2836E+06
            RATIOI=0.7239E-01  RATIOOR= 0.000
            MAX UN= 9.327      IEQ= 31 NODE      16 DOF      1 Y-DISPL.F
            MIN UN=-.7356E-01  IEQ= 21 NODE      11 DOF      1 Y-DISPL.F
            NO. OF CONTACT CONSTRAINT VIOLATIONS      0

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ITER      2  RNORM = 0.000      RMNORM= 0.000
            RINORM=0.1172E+06  RIMNOR=0.2836E+06
            RENORM= 166.3      REMNOR=0.1121E-19  RATIO =0.3766E-01  TOLER =0.1000E-03  NOT CONVERGED
            RFMAX = 43.77      RMMAX = 74.91
            RTSMAL=0.1000E-03  RMSMAL=0.1000E-03
            RDT =0.1172E+06    RDR =0.2836E+06
            RATIOI=0.3766E-01  RATIOOR= 0.000
            MAX UN= 2.531      IEQ= 37 NODE      19 DOF      1 Y-DISPL.F
            MIN UN=-.3693E-02  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=0.1172E+06  RIMNOR=0.2836E+06
            RENORM= 90.97      REMNOR=0.5497E-18  RATIO =0.2786E-01  TOLER =0.1000E-03  NOT CONVERGED
            RFMAX = 43.77      RMMAX = 74.91
            RTSMAL=0.1000E-03  RMSMAL=0.1000E-03
            RDT =0.1172E+06    RDR =0.2836E+06
            RATIOI=0.2786E-01  RATIOOR= 0.000
            MAX UN= 5.192      IEQ= 85 NODE      43 DOF      1 Y-DISPL.F
            MIN UN=-.2764E-08  IEQ= 13 NODE      7 DOF      1 Y-DISPL.F
            NO. OF CONTACT CONSTRAINT VIOLATIONS      0

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ITER      4  RNORM = 0.000      RMNORM= 0.000
            RINORM=0.1172E+06  RIMNOR=0.2836E+06
            RENORM= 1.910      REMNOR=0.1317E-18  RATIO =0.4036E-02  TOLER =0.1000E-03  NOT CONVERGED
            RFMAX = 43.77      RMMAX = 74.91
            RTSMAL=0.1000E-03  RMSMAL=0.1000E-03
            RDT =0.1172E+06    RDR =0.2836E+06
            RATIOI=0.4036E-02  RATIOOR= 0.000
            MAX UN= 1.254      IEQ= 97 NODE      49 DOF      1 Y-DISPL.F
            MIN UN=-.2460E-08  IEQ= 21 NODE      11 DOF      1 Y-DISPL.F
            NO. OF CONTACT CONSTRAINT VIOLATIONS      0

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ITER      5  RNORM = 0.000      RMNORM= 0.000
            RINORM=0.1172E+06  RIMNOR=0.2836E+06
            RENORM=0.2673E-16  REMNOR=0.1331E-18  RATIO =0.1510E-10  TOLER =0.1000E-03  CONVERGED !
            RFMAX = 43.77      RMMAX = 74.91
            RTSMAL=0.1000E-03  RMSMAL=0.1000E-03
            RDT =0.1172E+06    RDR =0.2836E+06
            RATIOI=0.1510E-10  RATIOOR= 0.000
            MAX UN=0.2045E-08  IEQ= 17 NODE      9 DOF      1 Y-DISPL.F
            MIN UN=-.2433E-08  IEQ= 19 NODE      10 DOF      1 Y-DISPL.F
            NO. OF CONTACT CONSTRAINT VIOLATIONS      0

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
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New Project
SOLUTION REACHED USING      5 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   4   ( AT TIME   4.000   )

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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	7.3578806E-03	-9.7833506E-04	
2	7.1622136E-03	-9.7833506E-04	
3	6.9665471E-03	-9.7832838E-04	
4	6.7708841E-03	-9.7829497E-04	
5	6.5752331E-03	-9.7820130E-04	
6	6.3796107E-03	-9.7800031E-04	
7	6.1840442E-03	-9.7763137E-04	
8	5.9885743E-03	-9.7702024E-04	
9	5.7932581E-03	-9.7607901E-04	
10	5.5981715E-03	-9.7470596E-04	
11	5.4034122E-03	-9.7278571E-04	
12	5.2091023E-03	-9.7018931E-04	
13	5.0153910E-03	-9.6677412E-04	
14	4.8224576E-03	-9.6238398E-04	
15	4.6305138E-03	-9.5684923E-04	
16	4.4398064E-03	-9.4998668E-04	
17	4.2506198E-03	-9.4159951E-04	
18	4.0632786E-03	-9.3151832E-04	
19	3.8781322E-03	-9.1964149E-04	
20	3.6955440E-03	-9.0593532E-04	
21	3.5158786E-03	-8.9043413E-04	
22	3.3394841E-03	-8.7323999E-04	
23	3.1666853E-03	-8.5450522E-04	
24	2.9977738E-03	-8.3439345E-04	
25	2.8330094E-03	-8.1305907E-04	
26	2.6726220E-03	-7.9064747E-04	
27	2.5168139E-03	-7.6729551E-04	
28	2.3657587E-03	-7.4313152E-04	
29	2.2196074E-03	-7.1827636E-04	
30	2.0784867E-03	-6.9284336E-04	
31	1.9425015E-03	-6.6693890E-04	
32	1.8117365E-03	-6.4066298E-04	
33	1.6862555E-03	-6.1410907E-04	
34	1.5661056E-03	-5.8736548E-04	
35	1.4513164E-03	-5.6051518E-04	
36	1.3419014E-03	-5.3363646E-04	
37	1.2378593E-03	-5.0680346E-04	
38	1.1391728E-03	-4.8008615E-04	
39	1.0458126E-03	-4.5355159E-04	
40	9.5773573E-04	-4.2726383E-04	
41	8.7488654E-04	-4.0128451E-04	
42	7.9719738E-04	-3.7567332E-04	
43	7.2458879E-04	-3.5048838E-04	
44	6.5696981E-04	-3.2578673E-04	
45	5.9423843E-04	-3.0162483E-04	
46	5.3628049E-04	-2.7805851E-04	
47	4.8297156E-04	-2.5514405E-04	
48	4.3417563E-04	-2.3293813E-04	
49	3.8974524E-04	-2.1149830E-04	
50	3.4952151E-04	-1.9088345E-04	
51	3.1333306E-04	-1.7115373E-04	
52	2.8099610E-04	-1.5237084E-04	
53	2.5231836E-04	-1.3459207E-04	
54	2.2709117E-04	-1.1785689E-04	
55	2.0510398E-04	-1.0219608E-04	
56	1.8613989E-04	-8.7627840E-05	
57	1.6997954E-04	-7.4159147E-05	
58	1.5640308E-04	-6.1787820E-05	
59	1.4519188E-04	-5.0504374E-05	
60	1.3612981E-04	-4.0293731E-05	
61	1.2900415E-04	-3.1136773E-05	
62	1.2360630E-04	-2.3011734E-05	
63	1.1973391E-04	-1.5869858E-05	
64	1.1719778E-04	-9.6367636E-06	
65	1.1582351E-04	-4.2390763E-06	
66	1.1545125E-04	3.9510500E-07	
67	1.1593532E-04	4.3358109E-06	
68	1.1714386E-04	7.6508640E-06	
69	1.1895831E-04	1.0405597E-05	
70	1.2127292E-04	1.2662618E-05	
71	1.2399416E-04	1.4481622E-05	
72	1.2704014E-04	1.5919234E-05	
73	1.3033999E-04	1.7028892E-05	

74	1.3383318E-04	1.7860751E-05
75	1.3746889E-04	1.8461613E-05
76	1.4120532E-04	1.8874876E-05
77	1.4500900E-04	1.9140499E-05
78	1.4885411E-04	1.9294977E-05
79	1.5272178E-04	1.9371328E-05
80	1.5659940E-04	1.9399083E-05
81	1.6048010E-04	1.9404286E-05

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|                PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
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NewProject.BaseDesignSection_28.A1M1R1_1757
Exe Time :24 May 2018      18:25:47

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New Project

STRESS RESULTS FOR GROUP NO. 1

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0_L
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 81
CURRENT TIME IS 4.0000

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HARDENING 2D SOIL ELEMENT

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

EL * FACTOR	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
1 D	0.000	-7.3579E-03	0.000	0.000	0.000	0.000	ACTIVE	0.000	0.000	0.000	
1.000	1.000	0.000	0.000	0.000	Ug5_2_8_L_0						
2 D	0.4690	-7.1622E-03	2.216	0.5518	2.216	1.690	ACTIVE	0.000	-0.2000	1.793	
1.000	1.000	2.345	0.000	0.000	Ug5_2_8_L_0						
3 D	0.9403	-6.9665E-03	4.479	1.115	4.479	3.281	ACTIVE	0.000	-0.4000	3.586	
1.000	1.000	4.702	0.000	0.000	Ug5_2_8_L_0						
4 D	1.415	-6.7709E-03	6.803	1.694	6.803	4.727	ACTIVE	0.000	-0.6000	5.379	
1.000	1.000	7.073	0.000	0.000	Ug5_2_8_L_0						
5 D	1.891	-6.5752E-03	9.171	2.283	9.171	6.034	ACTIVE	0.000	-0.8000	7.172	
1.000	1.000	9.456	0.000	0.000	Ug5_2_8_L_0						
6 D	2.369	-6.3796E-03	11.56	2.878	11.56	7.235	ACTIVE	0.000	-1.000	8.966	
1.000	1.000	11.84	0.000	0.000	Ug5_2_8_L_0						
7 D	2.846	-6.1840E-03	13.95	3.473	13.95	8.362	ACTIVE	0.000	-1.200	10.76	
1.000	1.000	14.23	0.000	0.000	Ug5_2_8_L_0						
8 D	3.330	-5.9886E-03	16.46	4.098	16.46	9.440	ACTIVE	0.000	-1.400	12.55	
1.000	1.000	16.65	0.000	0.000	Ug5_2_8_L_0						
9 D	3.816	-5.7933E-03	19.01	4.734	19.01	10.49	ACTIVE	0.000	-1.600	14.34	
1.000	1.000	19.08	0.000	0.000	Ug5_2_8_L_0						
10 D	4.289	-5.5982E-03	21.32	5.309	21.32	11.51	ACTIVE	0.000	-1.800	16.14	
1.000	1.000	21.45	0.000	0.000	Ug5_2_8_L_0						
11 D	4.771	-5.4034E-03	23.78	5.922	23.78	12.52	ACTIVE	0.000	-2.000	17.93	
1.000	1.000	23.85	0.000	0.000	Ug5_2_8_L_0						
12 D	5.250	-5.2091E-03	26.20	6.525	26.20	13.53	ACTIVE	0.000	-2.200	19.72	
1.000	1.000	26.25	0.000	0.000	Ug5_2_8_L_0						
13 D	5.721	-5.0154E-03	28.46	7.085	28.46	14.52	ACTIVE	0.000	-2.400	21.52	
1.000	1.000	28.60	0.000	0.000	Ug5_2_8_L_0						
14 D	6.197	-4.8225E-03	30.83	7.677	30.83	15.52	ACTIVE	0.000	-2.600	23.31	
1.000	1.000	30.99	0.000	0.000	Ug5_2_8_L_0						
15 D	6.673	-4.6305E-03	33.19	8.263	33.19	16.51	ACTIVE	0.000	-2.800	25.10	
1.000	1.000	33.37	0.000	0.000	Ug5_2_8_L_0						
16 D	7.148	-4.4398E-03	35.52	8.845	35.52	17.49	ACTIVE	0.000	-3.000	26.90	
1.000	1.000	35.74	0.000	0.000	Ug5_2_8_L_0						
17 D	7.617	-4.2506E-03	37.74	9.398	37.74	18.48	ACTIVE	0.000	-3.200	28.69	
1.000	1.000	38.09	0.000	0.000	Ug5_2_8_L_0						
18 D	8.091	-4.0633E-03	40.06	9.974	40.06	19.47	ACTIVE	0.000	-3.400	30.48	
1.000	1.000	40.46	0.000	0.000	Ug5_2_8_L_0						
19 D	8.565	-3.8781E-03	42.36	10.55	42.36	20.46	ACTIVE	0.000	-3.600	32.28	
1.000	1.000	42.82	0.000	0.000	Ug5_2_8_L_0						
20 D	9.033	-3.6955E-03	44.57	11.10	44.57	21.44	ACTIVE	0.000	-3.800	34.07	
1.000	1.000	45.17	0.000	0.000	Ug5_2_8_L_0						
21 D	9.506	-3.5159E-03	46.86	11.67	46.86	22.43	ACTIVE	0.000	-4.000	35.86	
1.000	1.000	47.53	0.000	0.000	Ug5_2_8_L_0						
22 D	9.979	-3.3395E-03	49.15	12.24	49.15	23.42	ACTIVE	0.000	-4.200	37.66	
1.000	1.000	49.89	0.000	0.000	Ug5_2_8_L_0						
23 D	10.45	-3.1667E-03	51.35	12.79	51.35	24.40	ACTIVE	0.000	-4.400	39.45	
1.000	1.000	52.23	0.000	0.000	Ug5_2_8_L_0						
24 D	10.92	-2.9978E-03	53.63	13.35	53.63	25.39	ACTIVE	0.000	-4.600	41.24	
1.000	1.000	54.59	0.000	0.000	Ug5_2_8_L_0						
25 D	11.39	-2.8330E-03	55.90	13.92	55.90	26.38	ACTIVE	0.000	-4.800	43.03	
1.000	1.000	56.95	0.000	0.000	Ug5_2_8_L_0						
26 D	11.86	-2.6726E-03	58.16	14.48	58.16	27.37	ACTIVE	0.000	-5.000	44.83	
1.000	1.000	59.31	0.000	0.000	Ug5_2_8_L_0						
27 D	12.33	-2.5168E-03	60.36	15.03	60.36	28.36	ACTIVE	0.000	-5.200	46.62	
1.000	1.000	61.65	0.000	0.000	Ug5_2_8_L_0						
28 D	12.80	-2.3658E-03	62.62	15.59	62.62	29.35	ACTIVE	0.000	-5.400	48.41	
1.000	1.000	64.01	0.000	0.000	Ug5_2_8_L_0						
29 D	13.27	-2.2196E-03	64.87	16.15	64.87	30.34	ACTIVE	0.000	-5.600	50.21	
1.000	1.000	66.36	0.000	0.000	Ug5_2_8_L_0						
30 D	13.74	-2.0785E-03	67.07	16.70	67.07	31.34	ACTIVE	0.000	-5.800	52.00	
1.000	1.000	68.70	0.000	0.000	Ug5_2_8_L_0						
31 D	14.21	-1.9425E-03	69.32	17.26	69.32	32.33	ACTIVE	0.000	-6.000	53.79	
1.000	1.000	71.05	0.000	0.000	Ug5_2_8_L_0						
32 D	14.68	-1.8117E-03	71.57	17.82	71.57	33.33	ACTIVE	0.000	-6.200	55.59	
1.000	1.000	73.41	0.000	0.000	Ug5_2_8_L_0						
33 D	15.15	-1.6863E-03	73.76	18.37	73.76	34.32	ACTIVE	0.000	-6.400	57.38	

1.000	1.000	75.75	0.000	0.000	Ug5_2_8_L_0					
34 D	15.62	-1.5661E-03	76.01	18.93	76.01	35.32	ACTIVE	0.000	-6.600	59.17
1.000	1.000	78.10	0.000	0.000	Ug5_2_8_L_0					
35 D	16.09	-1.4513E-03	78.25	19.49	78.25	36.32	ACTIVE	0.000	-6.800	60.97
1.000	1.000	80.45	0.000	0.000	Ug5_2_8_L_0					
36 D	16.56	-1.3419E-03	80.50	20.04	80.50	37.31	ACTIVE	0.000	-7.000	62.76
1.000	1.000	82.80	0.000	0.000	Ug5_2_8_L_0					
37 D	17.03	-1.2379E-03	82.69	20.59	82.69	38.31	ACTIVE	0.000	-7.200	64.55
1.000	1.000	85.14	0.000	0.000	Ug5_2_8_L_0					
38 D	17.50	-1.1392E-03	84.93	21.15	84.93	39.31	ACTIVE	0.000	-7.400	66.34
1.000	1.000	87.49	0.000	0.000	Ug5_2_8_L_0					
39 D	17.97	-1.0458E-03	87.17	21.70	87.17	40.31	ACTIVE	0.000	-7.600	68.14
1.000	1.000	89.84	0.000	0.000	Ug5_2_8_L_0					
40 D	18.44	-9.5774E-04	89.36	22.25	89.36	41.31	ACTIVE	0.000	-7.800	69.93
1.000	1.000	92.18	0.000	0.000	Ug5_2_8_L_0					
41 D	18.91	-8.7489E-04	91.60	22.81	91.60	42.32	ACTIVE	0.000	-8.000	71.72
1.000	1.000	94.53	0.000	0.000	Ug5_2_8_L_0					
42 D	19.38	-7.9720E-04	93.83	23.36	93.83	43.32	ACTIVE	0.000	-8.200	73.52
1.000	1.000	96.88	0.000	0.000	Ug5_2_8_L_0					
43 D	19.84	-7.2459E-04	96.02	23.91	96.02	44.32	ACTIVE	0.000	-8.400	75.31
1.000	1.000	99.22	0.000	0.000	Ug5_2_8_L_0					
44 D	20.31	-6.5697E-04	98.26	24.47	98.26	45.33	ACTIVE	0.000	-8.600	77.10
1.000	1.000	101.6	0.000	0.000	Ug5_2_8_L_0					
45 D	20.78	-5.9424E-04	100.5	25.02	100.5	46.33	ACTIVE	0.000	-8.800	78.90
1.000	1.000	103.9	0.000	0.000	Ug5_2_8_L_0					
46 D	21.25	-5.3628E-04	102.7	25.58	102.7	47.34	ACTIVE	0.000	-9.000	80.69
1.000	1.000	106.3	0.000	0.000	Ug5_2_8_L_0					
47 D	21.72	-4.8297E-04	104.9	26.12	104.9	48.35	ACTIVE	0.000	-9.200	82.48
1.000	1.000	108.6	0.000	0.000	Ug5_2_8_L_0					
48 D	22.19	-4.3418E-04	107.1	26.68	107.1	49.36	ACTIVE	0.000	-9.400	84.28
1.000	1.000	111.0	0.000	0.000	Ug5_2_8_L_0					
49 D	22.66	-3.8975E-04	109.4	27.23	109.4	50.36	ACTIVE	0.000	-9.600	86.07
1.000	1.000	113.3	0.000	0.000	Ug5_2_8_L_0					
50 D	23.13	-3.4952E-04	111.6	27.78	111.6	51.37	ACTIVE	0.000	-9.800	87.86
1.000	1.000	115.6	0.000	0.000	Ug5_2_8_L_0					
51 D	23.61	-3.1333E-04	113.8	28.42	113.8	52.38	UL-RL	7.5213E+04	-10.00	89.66
1.000	1.000	118.1	0.000	0.000	Ug5_2_8_L_0					
52 D	24.68	-2.8100E-04	116.0	31.97	116.0	53.39	UL-RL	7.5213E+04	-10.20	91.45
1.000	1.000	123.4	0.000	0.000	Ug5_2_8_L_0					
53 D	25.69	-2.5232E-04	118.2	35.23	118.2	54.40	UL-RL	7.5213E+04	-10.40	93.24
1.000	1.000	128.5	0.000	0.000	Ug5_2_8_L_0					
54 D	26.65	-2.2709E-04	120.4	38.19	120.4	55.42	UL-RL	7.5213E+04	-10.60	95.03
1.000	1.000	133.2	0.000	0.000	Ug5_2_8_L_0					
55 D	27.54	-2.0510E-04	122.7	40.90	122.7	56.43	UL-RL	7.5213E+04	-10.80	96.83
1.000	1.000	137.7	0.000	0.000	Ug5_2_8_L_0					
56 D	28.39	-1.8614E-04	124.9	43.35	124.9	57.44	UL-RL	7.5213E+04	-11.00	98.62
1.000	1.000	142.0	0.000	0.000	Ug5_2_8_L_0					
57 D	29.20	-1.6998E-04	127.1	45.58	127.1	58.46	UL-RL	7.5213E+04	-11.20	100.4
1.000	1.000	146.0	0.000	0.000	Ug5_2_8_L_0					
58 D	29.96	-1.5640E-04	129.3	47.59	129.3	59.47	UL-RL	7.5213E+04	-11.40	102.2
1.000	1.000	149.8	0.000	0.000	Ug5_2_8_L_0					
59 D	30.68	-1.4519E-04	131.5	49.42	131.5	60.48	UL-RL	7.5213E+04	-11.60	104.0
1.000	1.000	153.4	0.000	0.000	Ug5_2_8_L_0					
60 D	31.37	-1.3613E-04	133.7	51.07	133.7	61.50	UL-RL	7.5213E+04	-11.80	105.8
1.000	1.000	156.9	0.000	0.000	Ug5_2_8_L_0					
61 D	32.03	-1.2900E-04	135.9	52.57	135.9	62.52	UL-RL	7.5213E+04	-12.00	107.6
1.000	1.000	160.2	0.000	0.000	Ug5_2_8_L_0					
62 D	34.10	-1.2361E-04	138.0	61.10	138.0	63.43	UL-RL	3.6008E+04	-12.20	109.4
1.000	1.000	170.5	0.000	0.000	Ug6_741_743_L_0					
63 D	34.67	-1.1973E-04	140.0	62.16	140.0	64.35	UL-RL	3.6008E+04	-12.40	111.2
1.000	1.000	173.3	0.000	0.000	Ug6_741_743_L_0					
64 D	35.23	-1.1720E-04	142.0	63.18	142.0	65.27	UL-RL	3.6008E+04	-12.60	113.0
1.000	1.000	176.1	0.000	0.000	Ug6_741_743_L_0					
65 D	35.78	-1.1582E-04	144.0	64.15	144.0	66.18	UL-RL	3.6008E+04	-12.80	114.8
1.000	1.000	178.9	0.000	0.000	Ug6_741_743_L_0					
66 D	36.33	-1.1545E-04	146.0	65.08	146.0	67.10	UL-RL	3.6008E+04	-13.00	116.6
1.000	1.000	181.6	0.000	0.000	Ug6_741_743_L_0					
67 D	36.87	-1.1594E-04	147.9	65.99	147.9	68.02	UL-RL	3.6008E+04	-13.20	118.3
1.000	1.000	184.3	0.000	0.000	Ug6_741_743_L_0					
68 D	37.40	-1.1714E-04	149.9	66.87	149.9	68.94	UL-RL	3.6008E+04	-13.40	120.1
1.000	1.000	187.0	0.000	0.000	Ug6_741_743_L_0					
69 D	37.93	-1.1896E-04	151.9	67.73	151.9	69.86	UL-RL	3.6008E+04	-13.60	121.9
1.000	1.000	189.7	0.000	0.000	Ug6_741_743_L_0					
70 D	38.46	-1.2127E-04	153.8	68.57	153.8	70.78	UL-RL	3.6008E+04	-13.80	123.7
1.000	1.000	192.3	0.000	0.000	Ug6_741_743_L_0					
71 D	38.98	-1.2399E-04	155.8	69.40	155.8	71.70	UL-RL	3.6008E+04	-14.00	125.5
1.000	1.000	194.9	0.000	0.000	Ug6_741_743_L_0					
72 D	39.51	-1.2704E-04	157.8	70.22	157.8	72.62	UL-RL	3.6008E+04	-14.20	127.3
1.000	1.000	197.5	0.000	0.000	Ug6_741_743_L_0					
73 D	40.03	-1.3034E-04	159.8	71.03	159.8	73.54	UL-RL	3.6008E+04	-14.40	129.1
1.000	1.000	200.1	0.000	0.000	Ug6_741_743_L_0					
74 D	40.55	-1.3383E-04	161.7	71.84	161.7	74.46	UL-RL	3.6008E+04	-14.60	130.9
1.000	1.000	202.7	0.000	0.000	Ug6_741_743_L_0					
75 D	41.07	-1.3747E-04	163.7	72.64	163.7	75.38	UL-RL	3.6008E+04	-14.80	132.7
1.000	1.000	205.3	0.000	0.000	Ug6_741_743_L_0					
76 D	41.58	-1.4121E-04	165.7	73.44	165.7	76.31	UL-RL	3.6008E+04	-15.00	134.5
1.000	1.000	207.9	0.000	0.000	Ug6_741_743_L_0					
77 D	42.10	-1.4501E-04	167.7	74.24	167.7	77.23	UL-RL	3.6008E+04	-15.20	136.3
1.000	1.000	210.5	0.000	0.000	Ug6_741_743_L_0					
78 D	42.62	-1.4885E-04	169.6	75.03	169.6	78.15	UL-RL	3.6008E+04	-15.40	138.1
1.000	1.000	213.1	0.000	0.000	Ug6_741_743_L_0					

79 D	43.14	-1.5272E-04	171.6	75.83	171.6	79.07	UL-RL	3.6008E+04	-15.60	139.9
1.000	1.000	215.7	0.000	0.000	Ug6_741_743_L_0					
80 D	43.66	-1.5660E-04	173.6	76.63	173.6	80.00	UL-RL	3.6008E+04	-15.80	141.7
1.000	1.000	218.3	0.000	0.000	Ug6_741_743_L_0					
81 D	22.09	-1.6048E-04	175.6	77.43	175.6	80.92	UL-RL	3.6008E+04	-16.00	143.4
1.000	1.000	220.9	0.000	0.000	Ug6_741_743_L_0					

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|                PARATIEPLUS(TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION *Build date:Jul 11, 2017*                |
|                                                                                                                                            |
|                                                                                                                                            |
|                NewProject.BaseDesignSection_28.A1M1R1_1757                                                                              |
|                Exe Time :24 May 2018      18:25:47                                                                              |
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New Project

STRESS RESULTS FOR GROUP NO. 2

0\_R :  
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 81  
CURRENT TIME IS 4.0000

HARDENING 2D SOIL ELEMENT

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

EL * FACTOR	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
1	0.000	--	--	--	--	--	REMOVED	--	0.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
2	0.000	--	--	--	--	--	REMOVED	--	-0.2000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
3	0.000	--	--	--	--	--	REMOVED	--	-0.4000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
4	0.000	--	--	--	--	--	REMOVED	--	-0.6000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
5	0.000	--	--	--	--	--	REMOVED	--	-0.8000	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	--	-1.200	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
8	0.000	--	--	--	--	--	REMOVED	--	-1.400	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
9	0.000	--	--	--	--	--	REMOVED	--	-1.600	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
10	0.000	--	--	--	--	--	REMOVED	--	-1.800	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
11	0.000	--	--	--	--	--	REMOVED	--	-2.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
12	0.000	--	--	--	--	--	REMOVED	--	-2.200	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
13	0.000	--	--	--	--	--	REMOVED	--	-2.400	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
14	0.000	--	--	--	--	--	REMOVED	--	-2.600	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
15	0.000	--	--	--	--	--	REMOVED	--	-2.800	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
16 D	0.000	4.4398E-03	0.000	0.000	30.00	36.52	PASSIVE	0.000	-3.000	0.000	
1.000	1.000	0.000	0.000	0.000	Ug5_2_8_L_0						
17 D	2.858	4.2506E-03	1.793	12.08	32.00	36.32	PASSIVE	0.000	-3.200	2.207	
1.000	1.000	14.29	0.000	0.000	Ug5_2_8_L_0						
18 D	5.716	4.0633E-03	3.586	24.16	34.00	36.13	PASSIVE	0.000	-3.400	4.414	
1.000	1.000	28.58	0.000	0.000	Ug5_2_8_L_0						
19 D	8.573	3.8781E-03	5.379	36.25	36.00	36.25	PASSIVE	0.000	-3.600	6.621	
1.000	1.000	42.87	0.000	0.000	Ug5_2_8_L_0						
20 D	11.43	3.6955E-03	7.172	48.33	38.00	48.33	PASSIVE	0.000	-3.800	8.828	
1.000	1.000	57.16	0.000	0.000	Ug5_2_8_L_0						
21 D	14.29	3.5159E-03	8.966	60.41	40.00	60.41	PASSIVE	0.000	-4.000	11.03	
1.000	1.000	71.44	0.000	0.000	Ug5_2_8_L_0						
22 D	15.89	3.3395E-03	10.76	66.22	42.00	66.22	V-C	1.2465E+04	-4.200	13.24	
1.000	1.000	79.46	0.000	0.000	Ug5_2_8_L_0						
23 D	16.03	3.1667E-03	12.55	64.70	44.00	64.70	V-C	1.2465E+04	-4.400	15.45	
1.000	1.000	80.15	0.000	0.000	Ug5_2_8_L_0						
24 D	16.18	2.9978E-03	14.34	63.25	46.00	63.25	V-C	1.2465E+04	-4.600	17.66	
1.000	1.000	80.90	0.000	0.000	Ug5_2_8_L_0						
25 D	16.34	2.8330E-03	16.14	61.85	48.00	61.85	V-C	1.2465E+04	-4.800	19.86	
1.000	1.000	81.71	0.000	0.000	Ug5_2_8_L_0						
26 D	16.52	2.6726E-03	17.93	60.52	50.00	60.52	V-C	1.2465E+04	-5.000	22.07	
1.000	1.000	82.59	0.000	0.000	Ug5_2_8_L_0						
27 D	16.71	2.5168E-03	19.72	59.25	52.00	59.25	V-C	1.2465E+04	-5.200	24.28	
1.000	1.000	83.53	0.000	0.000	Ug5_2_8_L_0						
28 D	16.91	2.3658E-03	21.52	58.06	54.00	58.06	V-C	1.2465E+04	-5.400	26.48	
1.000	1.000	84.54	0.000	0.000	Ug5_2_8_L_0						
29 D	17.13	2.2196E-03	23.31	56.94	56.00	56.94	V-C	1.2465E+04	-5.600	28.69	
1.000	1.000	85.63	0.000	0.000	Ug5_2_8_L_0						
30 D	17.36	2.0785E-03	25.10	55.90	58.00	55.90	V-C	1.2465E+04	-5.800	30.90	
1.000	1.000	86.79	0.000	0.000	Ug5_2_8_L_0						
31 D	17.61	1.9425E-03	26.90	54.93	60.00	54.93	V-C	1.2465E+04	-6.000	33.10	
1.000	1.000	88.04	0.000	0.000	Ug5_2_8_L_0						
32 D	17.87	1.8117E-03	28.69	54.05	62.00	54.05	V-C	1.2465E+04	-6.200	35.31	
1.000	1.000	89.36	0.000	0.000	Ug5_2_8_L_0						
33 D	18.15	1.6863E-03	30.48	53.24	64.00	53.24	V-C	1.2465E+04	-6.400	37.52	



1.000	1.000	90.76	0.000	0.000	Ug5_2_8_L_0					
34 D	18.45	1.5661E-03	32.28	52.52	66.00	52.52	V-C	1.2465E+04	-6.600	39.72
1.000	1.000	92.24	0.000	0.000	Ug5_2_8_L_0					
35 D	18.76	1.4513E-03	34.07	51.87	68.00	51.87	V-C	1.2465E+04	-6.800	41.93
1.000	1.000	93.80	0.000	0.000	Ug5_2_8_L_0					
36 D	19.09	1.3419E-03	35.86	51.31	70.00	51.31	V-C	1.2465E+04	-7.000	44.14
1.000	1.000	95.45	0.000	0.000	Ug5_2_8_L_0					
37 D	19.43	1.2379E-03	37.66	50.83	72.00	50.83	V-C	1.2465E+04	-7.200	46.34
1.000	1.000	97.17	0.000	0.000	Ug5_2_8_L_0					
38 D	19.79	1.1392E-03	39.45	50.42	74.00	50.42	V-C	1.2465E+04	-7.400	48.55
1.000	1.000	98.97	0.000	0.000	Ug5_2_8_L_0					
39 D	20.17	1.0458E-03	41.24	50.10	76.00	50.10	V-C	1.2465E+04	-7.600	50.76
1.000	1.000	100.9	0.000	0.000	Ug5_2_8_L_0					
40 D	20.56	9.5774E-04	43.03	49.85	78.00	49.85	V-C	1.2465E+04	-7.800	52.97
1.000	1.000	102.8	0.000	0.000	Ug5_2_8_L_0					
41 D	20.97	8.7489E-04	44.83	49.69	80.00	49.69	V-C	1.2465E+04	-8.000	55.17
1.000	1.000	104.9	0.000	0.000	Ug5_2_8_L_0					
42 D	21.39	7.9720E-04	46.62	49.59	82.00	49.59	V-C	1.2465E+04	-8.200	57.38
1.000	1.000	107.0	0.000	0.000	Ug5_2_8_L_0					
43 D	21.83	7.2459E-04	48.41	49.58	84.00	49.58	V-C	1.2465E+04	-8.400	59.59
1.000	1.000	109.2	0.000	0.000	Ug5_2_8_L_0					
44 D	22.28	6.5697E-04	50.21	49.63	86.00	49.63	V-C	1.2465E+04	-8.600	61.79
1.000	1.000	111.4	0.000	0.000	Ug5_2_8_L_0					
45 D	22.75	5.9424E-04	52.00	49.76	88.00	49.76	V-C	1.2465E+04	-8.800	64.00
1.000	1.000	113.8	0.000	0.000	Ug5_2_8_L_0					
46 D	23.23	5.3628E-04	53.79	49.95	90.00	49.95	V-C	1.2465E+04	-9.000	66.21
1.000	1.000	116.2	0.000	0.000	Ug5_2_8_L_0					
47 D	23.72	4.8297E-04	55.59	50.21	92.00	50.21	V-C	1.2465E+04	-9.200	68.41
1.000	1.000	118.6	0.000	0.000	Ug5_2_8_L_0					
48 D	24.23	4.3418E-04	57.38	50.53	94.00	50.53	V-C	1.2465E+04	-9.400	70.62
1.000	1.000	121.2	0.000	0.000	Ug5_2_8_L_0					
49 D	24.75	3.8975E-04	59.17	50.92	96.00	50.92	V-C	1.2465E+04	-9.600	72.83
1.000	1.000	123.7	0.000	0.000	Ug5_2_8_L_0					
50 D	25.28	3.4952E-04	60.97	51.37	98.00	51.37	V-C	1.2465E+04	-9.800	75.03
1.000	1.000	126.4	0.000	0.000	Ug5_2_8_L_0					
51 D	25.82	3.1333E-04	62.76	51.87	100.00	51.87	V-C	1.2465E+04	-10.000	77.24
1.000	1.000	129.1	0.000	0.000	Ug5_2_8_L_0					
52 D	26.37	2.8100E-04	64.55	52.42	102.0	52.42	V-C	1.2465E+04	-10.200	79.45
1.000	1.000	131.9	0.000	0.000	Ug5_2_8_L_0					
53 D	26.94	2.5232E-04	66.34	53.03	104.0	53.03	V-C	1.2465E+04	-10.400	81.66
1.000	1.000	134.7	0.000	0.000	Ug5_2_8_L_0					
54 D	27.50	2.2709E-04	68.14	53.64	106.0	53.71	UL-RL	3.7394E+04	-10.600	83.86
1.000	1.000	137.5	0.000	0.000	Ug5_2_8_L_0					
55 D	27.97	2.0510E-04	69.93	53.77	108.0	54.69	UL-RL	3.7394E+04	-10.800	86.07
1.000	1.000	139.8	0.000	0.000	Ug5_2_8_L_0					
56 D	28.46	1.8614E-04	71.72	54.03	110.0	55.67	UL-RL	3.7394E+04	-11.000	88.28
1.000	1.000	142.3	0.000	0.000	Ug5_2_8_L_0					
57 D	28.98	1.6998E-04	73.52	54.40	112.0	56.65	UL-RL	3.7394E+04	-11.200	90.48
1.000	1.000	144.9	0.000	0.000	Ug5_2_8_L_0					
58 D	29.51	1.5640E-04	75.31	54.88	114.0	57.63	UL-RL	3.7394E+04	-11.400	92.69
1.000	1.000	147.6	0.000	0.000	Ug5_2_8_L_0					
59 D	30.07	1.4519E-04	77.10	55.45	116.0	58.61	UL-RL	3.7394E+04	-11.600	94.90
1.000	1.000	150.4	0.000	0.000	Ug5_2_8_L_0					
60 D	30.64	1.3613E-04	78.90	56.11	118.0	59.60	UL-RL	3.7394E+04	-11.800	97.10
1.000	1.000	153.2	0.000	0.000	Ug5_2_8_L_0					
61 D	31.23	1.2900E-04	80.69	56.85	120.0	60.58	UL-RL	3.7394E+04	-12.000	99.31
1.000	1.000	156.2	0.000	0.000	Ug5_2_8_L_0					
62 D	31.47	1.2361E-04	82.28	55.83	121.8	61.46	UL-RL	2.8119E+04	-12.200	101.5
1.000	1.000	157.3	0.000	0.000	Ug6_741_743_L_0					
63 D	32.07	1.1973E-04	83.88	56.61	123.6	62.35	UL-RL	2.8119E+04	-12.400	103.7
1.000	1.000	160.3	0.000	0.000	Ug6_741_743_L_0					
64 D	32.67	1.1720E-04	85.47	57.43	125.4	63.23	UL-RL	2.8119E+04	-12.600	105.9
1.000	1.000	163.4	0.000	0.000	Ug6_741_743_L_0					
65 D	33.28	1.1582E-04	87.06	58.29	127.2	64.12	UL-RL	2.8119E+04	-12.800	108.1
1.000	1.000	166.4	0.000	0.000	Ug6_741_743_L_0					
66 D	33.90	1.1545E-04	88.66	59.17	129.0	65.01	UL-RL	2.8119E+04	-13.000	110.3
1.000	1.000	169.5	0.000	0.000	Ug6_741_743_L_0					
67 D	34.53	1.1594E-04	90.25	60.08	130.8	65.89	UL-RL	2.8119E+04	-13.200	112.6
1.000	1.000	172.6	0.000	0.000	Ug6_741_743_L_0					
68 D	35.15	1.1714E-04	91.84	61.00	132.6	66.78	UL-RL	2.8119E+04	-13.400	114.8
1.000	1.000	175.8	0.000	0.000	Ug6_741_743_L_0					
69 D	35.78	1.1896E-04	93.43	61.94	134.4	67.67	UL-RL	2.8119E+04	-13.600	117.0
1.000	1.000	178.9	0.000	0.000	Ug6_741_743_L_0					
70 D	36.41	1.2127E-04	95.03	62.90	136.2	68.55	UL-RL	2.8119E+04	-13.800	119.2
1.000	1.000	182.1	0.000	0.000	Ug6_741_743_L_0					
71 D	37.05	1.2399E-04	96.62	63.87	138.0	69.44	UL-RL	2.8119E+04	-14.000	121.4
1.000	1.000	185.2	0.000	0.000	Ug6_741_743_L_0					
72 D	37.69	1.2704E-04	98.21	64.84	139.8	70.33	UL-RL	2.8119E+04	-14.200	123.6
1.000	1.000	188.4	0.000	0.000	Ug6_741_743_L_0					
73 D	38.32	1.3034E-04	99.81	65.82	141.6	71.22	UL-RL	2.8119E+04	-14.400	125.8
1.000	1.000	191.6	0.000	0.000	Ug6_741_743_L_0					
74 D	38.96	1.3383E-04	101.4	66.81	143.4	72.11	UL-RL	2.8119E+04	-14.600	128.0
1.000	1.000	194.8	0.000	0.000	Ug6_741_743_L_0					
75 D	39.60	1.3747E-04	103.0	67.80	145.2	73.00	UL-RL	2.8119E+04	-14.800	130.2
1.000	1.000	198.0	0.000	0.000	Ug6_741_743_L_0					
76 D	40.24	1.4121E-04	104.6	68.79	147.0	73.89	UL-RL	2.8119E+04	-15.000	132.4
1.000	1.000	201.2	0.000	0.000	Ug6_741_743_L_0					
77 D	40.88	1.4501E-04	106.2	69.79	148.8	74.78	UL-RL	2.8119E+04	-15.200	134.6
1.000	1.000	204.4	0.000	0.000	Ug6_741_743_L_0					
78 D	41.52	1.4885E-04	107.8	70.78	150.6	75.67	UL-RL	2.8119E+04	-15.400	136.8
1.000	1.000	207.6	0.000	0.000	Ug6_741_743_L_0					

79 D	42.16	1.5272E-04	109.4	71.78	152.4	76.56	UL-RL	2.8119E+04	-15.60	139.0
1.000	1.000	210.8	0.000	0.000	Ug6_741_743_L_0					
80 D	42.80	1.5660E-04	111.0	72.77	154.2	77.45	UL-RL	2.8119E+04	-15.80	141.2
1.000	1.000	214.0	0.000	0.000	Ug6_741_743_L_0					
81 D	21.72	1.6048E-04	112.6	73.77	156.0	78.34	UL-RL	2.8119E+04	-16.00	143.4
1.000	1.000	217.2	0.000	0.000	Ug6_741_743_L_0					

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017* |
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New Project

STRESS RESULTS FOR GROUP NO. 3

WallElement\_33 :  
ELEMENT TYPE 2 NO.OF ELEMENTS. IN THIS GROUP 80  
CURRENT TIME IS 4.0000

WALL2D ELEMENT

EL	TA	TB	MA	MB
1	-1.20281E-10	1.20281E-10	-1.18447E-11	3.61368E-10
2	0.46899	-0.46899	-2.46424E-10	9.37978E-02
3	1.4093	-1.4093	-9.37978E-02	0.37566
4	2.8239	-2.8239	-0.37566	0.94045
5	4.7151	-4.7151	-0.94045	1.8835
6	7.0838	-7.0838	-1.8835	3.3002
7	9.9300	-9.9300	-3.3002	5.2862
8	13.260	-13.260	-5.2862	7.9382
9	17.076	-17.076	-7.9382	11.353
10	21.365	-21.365	-11.353	15.626
11	26.136	-26.136	-15.626	20.854
12	31.385	-31.385	-20.854	27.131
13	37.106	-37.106	-27.131	34.552
14	43.303	-43.303	-34.552	43.212
15	49.977	-49.977	-43.212	53.208
16	57.125	-57.125	-53.208	64.633
17	61.885	-61.885	-64.633	77.010
18	64.261	-64.261	-77.010	89.862
19	64.252	-64.252	-89.862	102.71
20	61.855	-61.855	-102.71	115.08
21	57.072	-57.072	-115.08	126.50
22	51.159	-51.159	-126.50	136.73
23	45.576	-45.576	-136.73	145.84
24	40.314	-40.314	-145.84	153.91
25	35.362	-35.362	-153.91	160.98
26	30.707	-30.707	-160.98	167.12
27	26.331	-26.331	-167.12	172.39
28	22.224	-22.224	-172.39	176.83
29	18.370	-18.370	-176.83	180.51
30	14.751	-14.751	-180.51	183.46
31	11.354	-11.354	-183.46	185.73
32	8.1643	-8.1643	-185.73	187.36
33	5.1619	-5.1619	-187.36	188.39
34	2.3337	-2.3337	-188.39	188.86
35	-0.33672	0.33672	-188.86	188.79
36	-2.8655	2.8655	-188.79	188.22
37	-5.2712	5.2712	-188.22	187.16
38	-7.5675	7.5675	-187.16	185.65
39	-9.7705	9.7705	-185.65	183.70
40	-11.898	11.898	-183.70	181.32
41	-13.963	13.963	-181.32	178.52
42	-15.981	15.981	-178.52	175.33
43	-17.970	17.970	-175.33	171.73
44	-19.940	19.940	-171.73	167.75
45	-21.908	21.908	-167.75	163.36
46	-23.886	23.886	-163.36	158.59
47	-25.889	25.889	-158.59	153.41
48	-27.929	27.929	-153.41	147.82
49	-30.019	30.019	-147.82	141.82
50	-32.170	32.170	-141.82	135.39
51	-34.378	34.378	-135.39	128.51
52	-36.067	36.067	-128.51	121.30
53	-37.311	37.311	-121.30	113.84
54	-38.165	38.165	-113.84	106.20
55	-38.589	38.589	-106.20	98.484
56	-38.656	38.656	-98.484	90.753
57	-38.435	38.435	-90.753	83.066
58	-37.989	37.989	-83.066	75.468
59	-37.376	37.376	-75.468	67.993
60	-36.646	36.646	-67.993	60.664
61	-35.847	35.847	-60.664	53.494
62	-33.221	33.221	-53.494	46.850
63	-30.622	30.622	-46.850	40.726
64	-28.066	28.066	-40.726	35.113
65	-25.571	25.571	-35.113	29.998
66	-23.147	23.147	-29.998	25.369
67	-20.806	20.806	-25.369	21.208
68	-18.557	18.557	-21.208	17.497
69	-16.408	16.408	-17.497	14.215

70	-14.364	14.364	-14.215	11.342
71	-12.430	12.430	-11.342	8.8564
72	-10.610	10.610	-8.8564	6.7345
73	-8.9061	8.9061	-6.7345	4.9533
74	-7.3216	7.3216	-4.9533	3.4889
75	-5.8574	5.8574	-3.4889	2.3175
76	-4.5145	4.5145	-2.3175	1.4146
77	-3.2936	3.2936	-1.4146	0.75587
78	-2.1950	2.1950	-0.75587	0.31687
79	-1.2189	1.2189	-0.31687	7.30915E-02
80	-0.36544	0.36544	-7.30915E-02	3.08242E-12

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ITER      0  RNORM = 0.000      RMNORM= 0.000
            RINORM=0.2220E+06 RIMNOR=0.2038E+07
            RENORM= 1042.      REMNOR=0.1331E-18  RATIO =0.6850E-01  TOLER =0.1000E-03  NOT CONVERGED
            RFMAX = 64.26      RMMAX = 188.9
            RTSMAL=0.1000E-03 RMSMAL=0.1000E-02
            RDT =0.2220E+06  RDR =0.2038E+07
            RATIOI=0.6850E-01 RATIOOR= 0.000
            MAX UN= 14.13      IEQ= 41 NODE      21 DOF  1  Y-DISPL.F
            MIN UN=-.1182     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=0.2220E+06 RIMNOR=0.2038E+07
            RENORM= 285.4      REMNOR=0.1959E-18  RATIO =0.3585E-01  TOLER =0.1000E-03  NOT CONVERGED
            RFMAX = 64.26      RMMAX = 188.9
            RTSMAL=0.1000E-03 RMSMAL=0.1000E-02
            RDT =0.2220E+06  RDR =0.2038E+07
            RATIOI=0.3585E-01 RATIOOR= 0.000
            MAX UN= 4.044      IEQ= 51 NODE      26 DOF  1  Y-DISPL.F
            MIN UN=-.3957E-02 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=0.2220E+06 RIMNOR=0.2038E+07
            RENORM= 192.6      REMNOR=0.3325E-17  RATIO =0.2945E-01  TOLER =0.1000E-03  NOT CONVERGED
            RFMAX = 64.26      RMMAX = 188.9
            RTSMAL=0.1000E-03 RMSMAL=0.1000E-02
            RDT =0.2220E+06  RDR =0.2038E+07
            RATIOI=0.2945E-01 RATIOOR= 0.000
            MAX UN= 6.835      IEQ= 53 NODE      27 DOF  1  Y-DISPL.F
            MIN UN=-1.134     IEQ= 159 NODE     80 DOF  1  Y-DISPL.F
            NO. OF CONTACT CONSTRAINT VIOLATIONS 0

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ITER      4  RNORM = 0.000      RMNORM= 0.000
            RINORM=0.2220E+06 RIMNOR=0.2038E+07
            RENORM= 3.078      REMNOR=0.1642E-17  RATIO =0.3723E-02  TOLER =0.1000E-03  NOT CONVERGED
            RFMAX = 64.26      RMMAX = 188.9
            RTSMAL=0.1000E-03 RMSMAL=0.1000E-02
            RDT =0.2220E+06  RDR =0.2038E+07
            RATIOI=0.3723E-02 RATIOOR= 0.000
            MAX UN= 1.484      IEQ= 119 NODE     60 DOF  1  Y-DISPL.F
            MIN UN=-.3411E-01 IEQ= 135 NODE     68 DOF  1  Y-DISPL.F
            NO. OF CONTACT CONSTRAINT VIOLATIONS 0

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ITER      5  RNORM = 0.000      RMNORM= 0.000
            RINORM=0.2220E+06 RIMNOR=0.2038E+07
            RENORM=0.1042E-01 REMNOR=0.1175E-17  RATIO =0.2166E-03  TOLER =0.1000E-03  NOT CONVERGED
            RFMAX = 64.26      RMMAX = 188.9
            RTSMAL=0.1000E-03 RMSMAL=0.1000E-02
            RDT =0.2220E+06  RDR =0.2038E+07
            RATIOI=0.2166E-03 RATIOOR= 0.000
            MAX UN=0.7849E-08 IEQ= 15 NODE      8 DOF  1  Y-DISPL.F
            MIN UN=-.4148E-01 IEQ= 137 NODE     69 DOF  1  Y-DISPL.F
            NO. OF CONTACT CONSTRAINT VIOLATIONS 0

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ITER      6  RNORM = 0.000      RMNORM= 0.000
            RINORM=0.2220E+06 RIMNOR=0.2038E+07
            RENORM=0.1097E-02 REMNOR=0.1295E-17  RATIO =0.7030E-04  TOLER =0.1000E-03  CONVERGED !
            RFMAX = 64.26      RMMAX = 188.9
            RTSMAL=0.1000E-03 RMSMAL=0.1000E-02
            RDT =0.2220E+06  RDR =0.2038E+07
            RATIOI=0.7030E-04 RATIOOR= 0.000
            MAX UN=0.1472E-01 IEQ= 121 NODE     61 DOF  1  Y-DISPL.F
            MIN UN=-.9094E-08 IEQ= 13 NODE      7 DOF  1  Y-DISPL.F
            NO. OF CONTACT CONSTRAINT VIOLATIONS 0

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
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|          NewProject.BaseDesignSection_28.A1M1R1_1757  |
|          Exe Time :24 May 2018          18:25:47  |
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New Project
SOLUTION REACHED USING      6 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	1.9524372E-02	-2.2119939E-03
2	1.9081974E-02	-2.2119939E-03
3	1.8639575E-02	-2.2119874E-03
4	1.8197180E-02	-2.2119549E-03
5	1.7754797E-02	-2.2118635E-03
6	1.7312442E-02	-2.2116676E-03
7	1.6870141E-02	-2.2113079E-03
8	1.6427935E-02	-2.2107121E-03
9	1.5985878E-02	-2.2097945E-03
10	1.5544045E-02	-2.2084558E-03
11	1.5102531E-02	-2.2065836E-03
12	1.4661455E-02	-2.2040521E-03
13	1.4220963E-02	-2.2007222E-03
14	1.3781230E-02	-2.1964416E-03
15	1.3342461E-02	-2.1910448E-03
16	1.2904898E-02	-2.1843533E-03
17	1.2468817E-02	-2.1761751E-03
18	1.2034539E-02	-2.1663053E-03
19	1.1602422E-02	-2.1545259E-03
20	1.1172871E-02	-2.1406056E-03
21	1.0746341E-02	-2.1243003E-03
22	1.0323329E-02	-2.1053524E-03
23	9.9043915E-03	-2.0835311E-03
24	9.4901195E-03	-2.0586708E-03
25	9.0811324E-03	-2.0306721E-03
26	8.6780622E-03	-1.9995011E-03
27	8.2815433E-03	-1.9651897E-03
28	7.8921911E-03	-1.9278352E-03
29	7.5106012E-03	-1.8876009E-03
30	7.1373275E-03	-1.8447159E-03
31	6.7728723E-03	-1.7994688E-03
32	6.4176788E-03	-1.7521666E-03
33	6.0721252E-03	-1.7030982E-03
34	5.7365390E-03	-1.6525368E-03
35	5.4111929E-03	-1.6007393E-03
36	5.0963096E-03	-1.5479475E-03
37	4.7920665E-03	-1.4943890E-03
38	4.4985924E-03	-1.4402770E-03
39	4.2159793E-03	-1.3858121E-03
40	3.9442785E-03	-1.3311828E-03
41	3.6835053E-03	-1.2765658E-03
42	3.4336403E-03	-1.2221272E-03
43	3.1946322E-03	-1.1680228E-03
44	2.9663991E-03	-1.1143993E-03
45	2.7488322E-03	-1.0613950E-03
46	2.5417923E-03	-1.0091396E-03
47	2.3451182E-03	-9.5775624E-04
48	2.1586239E-03	-9.0736139E-04
49	1.9821004E-03	-8.5806572E-04
50	1.8153181E-03	-8.0997493E-04
51	1.6580243E-03	-7.6318951E-04
52	1.5099452E-03	-7.1780563E-04
53	1.3708052E-03	-6.7392147E-04
54	1.2402780E-03	-6.3162252E-04
55	1.1180444E-03	-5.9099985E-04
56	1.0037605E-03	-5.5214070E-04
57	8.9706482E-04	-5.1513114E-04
58	7.9757901E-04	-4.8005662E-04
59	7.0490749E-04	-4.4700240E-04
60	6.1863766E-04	-4.1605401E-04
61	5.3833975E-04	-3.8729762E-04
62	4.6356666E-04	-3.6082046E-04
63	3.9385783E-04	-3.3664926E-04
64	3.2875608E-04	-3.1474129E-04
65	2.6781435E-04	-2.9503786E-04
66	2.1059885E-04	-2.7746561E-04
67	1.5669182E-04	-2.6193772E-04
68	1.0569409E-04	-2.4835490E-04
69	5.7227461E-05	-2.3660799E-04
70	1.0936253E-05	-2.2658076E-04
71	-3.3511369E-05	-2.1815144E-04
72	-7.6422423E-05	-2.1119364E-04
73	-1.1807822E-04	-2.0557670E-04

74	-1.5873351E-04	-2.0116593E-04
75	-1.9861577E-04	-1.9782289E-04
76	-2.3792438E-04	-1.9540551E-04
77	-2.7682998E-04	-1.9376825E-04
78	-3.1547376E-04	-1.9276220E-04
79	-3.5396678E-04	-1.9223496E-04
80	-3.9238927E-04	-1.9203052E-04
81	-4.3079179E-04	-1.9198927E-04

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|                PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                |
|                NewProject.BaseDesignSection_28.A1M1R1_1757  |
|                Exe Time :24 May 2018  18:25:47  |
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New Project

STRESS RESULTS FOR GROUP NO. 1

0\_L :  
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 81  
CURRENT TIME IS 5.0000

HARDENING 2D SOIL ELEMENT

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

EL * FACTOR	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
1 D	0.000	-1.9524E-02	0.000	0.000	0.000	0.000	ACTIVE	0.000	0.000	0.000	
1.000	1.000	0.000	0.000	0.000	Ug5_2_8_L_0						
2 D	0.4572	-1.9082E-02	2.295	0.5715	2.295	1.690	ACTIVE	0.000	-0.2000	1.714	
1.000	1.000	2.286	0.000	0.000	Ug5_2_8_L_0						
3 D	0.9166	-1.8640E-02	4.637	1.155	4.637	3.281	ACTIVE	0.000	-0.4000	3.429	
1.000	1.000	4.583	0.000	0.000	Ug5_2_8_L_0						
4 D	1.379	-1.8197E-02	7.039	1.753	7.039	4.727	ACTIVE	0.000	-0.6000	5.143	
1.000	1.000	6.896	0.000	0.000	Ug5_2_8_L_0						
5 D	1.844	-1.7755E-02	9.486	2.362	9.486	6.034	ACTIVE	0.000	-0.8000	6.857	
1.000	1.000	9.219	0.000	0.000	Ug5_2_8_L_0						
6 D	2.309	-1.7312E-02	11.95	2.976	11.95	7.235	ACTIVE	0.000	-1.000	8.571	
1.000	1.000	11.55	0.000	0.000	Ug5_2_8_L_0						
7 D	2.775	-1.6870E-02	14.42	3.590	14.42	8.362	ACTIVE	0.000	-1.200	10.29	
1.000	1.000	13.88	0.000	0.000	Ug5_2_8_L_0						
8 D	3.247	-1.6428E-02	17.01	4.235	17.01	9.440	ACTIVE	0.000	-1.400	12.00	
1.000	1.000	16.24	0.000	0.000	Ug5_2_8_L_0						
9 D	3.721	-1.5986E-02	19.64	4.891	19.64	10.49	ACTIVE	0.000	-1.600	13.71	
1.000	1.000	18.61	0.000	0.000	Ug5_2_8_L_0						
10 D	4.183	-1.5544E-02	22.03	5.485	22.03	11.51	ACTIVE	0.000	-1.800	15.43	
1.000	1.000	20.91	0.000	0.000	Ug5_2_8_L_0						
11 D	4.652	-1.5103E-02	24.57	6.118	24.57	12.52	ACTIVE	0.000	-2.000	17.14	
1.000	1.000	23.26	0.000	0.000	Ug5_2_8_L_0						
12 D	5.120	-1.4661E-02	27.07	6.740	27.07	13.53	ACTIVE	0.000	-2.200	18.86	
1.000	1.000	25.60	0.000	0.000	Ug5_2_8_L_0						
13 D	5.578	-1.4221E-02	29.40	7.321	29.40	14.52	ACTIVE	0.000	-2.400	20.57	
1.000	1.000	27.89	0.000	0.000	Ug5_2_8_L_0						
14 D	6.044	-1.3781E-02	31.86	7.932	31.86	15.52	ACTIVE	0.000	-2.600	22.29	
1.000	1.000	30.22	0.000	0.000	Ug5_2_8_L_0						
15 D	6.508	-1.3342E-02	34.29	8.538	34.29	16.51	ACTIVE	0.000	-2.800	24.00	
1.000	1.000	32.54	0.000	0.000	Ug5_2_8_L_0						
16 D	6.971	-1.2905E-02	36.71	9.140	36.71	17.49	ACTIVE	0.000	-3.000	25.71	
1.000	1.000	34.85	0.000	0.000	Ug5_2_8_L_0						
17 D	7.428	-1.2469E-02	39.00	9.712	39.00	18.48	ACTIVE	0.000	-3.200	27.43	
1.000	1.000	37.14	0.000	0.000	Ug5_2_8_L_0						
18 D	7.890	-1.2035E-02	41.40	10.31	41.40	19.47	ACTIVE	0.000	-3.400	29.14	
1.000	1.000	39.45	0.000	0.000	Ug5_2_8_L_0						
19 D	8.352	-1.1602E-02	43.78	10.90	43.78	20.46	ACTIVE	0.000	-3.600	30.86	
1.000	1.000	41.76	0.000	0.000	Ug5_2_8_L_0						
20 D	8.809	-1.1173E-02	46.07	11.47	46.07	21.44	ACTIVE	0.000	-3.800	32.57	
1.000	1.000	44.04	0.000	0.000	Ug5_2_8_L_0						
21 D	9.269	-1.0746E-02	48.44	12.06	48.44	22.43	ACTIVE	0.000	-4.000	34.29	
1.000	1.000	46.35	0.000	0.000	Ug5_2_8_L_0						
22 D	9.730	-1.0323E-02	50.80	12.65	50.80	23.42	ACTIVE	0.000	-4.200	36.00	
1.000	1.000	48.65	0.000	0.000	Ug5_2_8_L_0						
23 D	10.19	-9.9044E-03	53.08	13.22	53.08	24.40	ACTIVE	0.000	-4.400	37.71	
1.000	1.000	50.93	0.000	0.000	Ug5_2_8_L_0						
24 D	10.65	-9.4901E-03	55.44	13.80	55.44	25.39	ACTIVE	0.000	-4.600	39.43	
1.000	1.000	53.23	0.000	0.000	Ug5_2_8_L_0						
25 D	11.11	-9.0811E-03	57.79	14.39	57.79	26.38	ACTIVE	0.000	-4.800	41.14	
1.000	1.000	55.53	0.000	0.000	Ug5_2_8_L_0						
26 D	11.57	-8.6781E-03	60.13	14.97	60.13	27.37	ACTIVE	0.000	-5.000	42.86	
1.000	1.000	57.83	0.000	0.000	Ug5_2_8_L_0						
27 D	12.02	-8.2815E-03	62.41	15.54	62.41	28.36	ACTIVE	0.000	-5.200	44.57	
1.000	1.000	60.11	0.000	0.000	Ug5_2_8_L_0						
28 D	12.48	-7.8922E-03	64.75	16.12	64.75	29.35	ACTIVE	0.000	-5.400	46.29	
1.000	1.000	62.41	0.000	0.000	Ug5_2_8_L_0						
29 D	12.94	-7.5106E-03	67.08	16.70	67.08	30.34	ACTIVE	0.000	-5.600	48.00	
1.000	1.000	64.70	0.000	0.000	Ug5_2_8_L_0						
30 D	13.40	-7.1373E-03	69.35	17.27	69.35	31.34	ACTIVE	0.000	-5.800	49.71	
1.000	1.000	66.98	0.000	0.000	Ug5_2_8_L_0						
31 D	13.86	-6.7729E-03	71.69	17.85	71.69	32.33	ACTIVE	0.000	-6.000	51.43	
1.000	1.000	69.28	0.000	0.000	Ug5_2_8_L_0						
32 D	14.31	-6.4177E-03	74.01	18.43	74.01	33.33	ACTIVE	0.000	-6.200	53.14	
1.000	1.000	71.57	0.000	0.000	Ug5_2_8_L_0						
33 D	14.77	-6.0721E-03	76.29	19.00	76.29	34.32	ACTIVE	0.000	-6.400	54.86	

1.000	1.000	73.85	0.000	0.000	Ug5_2_8_L_0					
34 D	15.23	-5.7365E-03	78.61	19.57	78.61	35.32	ACTIVE	0.000	-6.600	56.57
1.000	1.000	76.15	0.000	0.000	Ug5_2_8_L_0					
35 D	15.69	-5.4112E-03	80.93	20.15	80.93	36.32	ACTIVE	0.000	-6.800	58.29
1.000	1.000	78.44	0.000	0.000	Ug5_2_8_L_0					
36 D	16.15	-5.0963E-03	83.26	20.73	83.26	37.31	ACTIVE	0.000	-7.000	60.00
1.000	1.000	80.73	0.000	0.000	Ug5_2_8_L_0					
37 D	16.60	-4.7921E-03	85.53	21.30	85.53	38.31	ACTIVE	0.000	-7.200	61.71
1.000	1.000	83.01	0.000	0.000	Ug5_2_8_L_0					
38 D	17.06	-4.4986E-03	87.85	21.87	87.85	39.31	ACTIVE	0.000	-7.400	63.43
1.000	1.000	85.30	0.000	0.000	Ug5_2_8_L_0					
39 D	17.52	-4.2160E-03	90.16	22.45	90.16	40.31	ACTIVE	0.000	-7.600	65.14
1.000	1.000	87.59	0.000	0.000	Ug5_2_8_L_0					
40 D	17.97	-3.9443E-03	92.43	23.02	92.43	41.31	ACTIVE	0.000	-7.800	66.86
1.000	1.000	89.87	0.000	0.000	Ug5_2_8_L_0					
41 D	18.43	-3.6835E-03	94.75	23.59	94.75	42.32	ACTIVE	0.000	-8.000	68.57
1.000	1.000	92.16	0.000	0.000	Ug5_2_8_L_0					
42 D	18.89	-3.4336E-03	97.06	24.17	97.06	43.32	ACTIVE	0.000	-8.200	70.29
1.000	1.000	94.45	0.000	0.000	Ug5_2_8_L_0					
43 D	19.35	-3.1946E-03	99.33	24.73	99.33	44.32	ACTIVE	0.000	-8.400	72.00
1.000	1.000	96.73	0.000	0.000	Ug5_2_8_L_0					
44 D	19.80	-2.9664E-03	101.6	25.31	101.6	45.33	ACTIVE	0.000	-8.600	73.71
1.000	1.000	99.02	0.000	0.000	Ug5_2_8_L_0					
45 D	20.26	-2.7488E-03	104.0	25.89	104.0	46.33	ACTIVE	0.000	-8.800	75.43
1.000	1.000	101.3	0.000	0.000	Ug5_2_8_L_0					
46 D	20.72	-2.5418E-03	106.3	26.46	106.3	47.34	ACTIVE	0.000	-9.000	77.14
1.000	1.000	103.6	0.000	0.000	Ug5_2_8_L_0					
47 D	21.18	-2.3451E-03	108.5	27.03	108.5	48.35	UL-RL	5.6410E+04	-9.200	78.86
1.000	1.000	105.9	0.000	0.000	Ug5_2_8_L_0					
48 D	21.64	-2.1586E-03	110.8	27.61	110.8	49.36	UL-RL	5.6410E+04	-9.400	80.57
1.000	1.000	108.2	0.000	0.000	Ug5_2_8_L_0					
49 D	22.09	-1.9821E-03	113.2	28.18	113.2	50.36	UL-RL	5.6410E+04	-9.600	82.29
1.000	1.000	110.5	0.000	0.000	Ug5_2_8_L_0					
50 D	22.55	-1.8153E-03	115.4	28.75	115.4	51.37	UL-RL	5.6410E+04	-9.800	84.00
1.000	1.000	112.8	0.000	0.000	Ug5_2_8_L_0					
51 D	23.01	-1.6580E-03	117.7	29.33	117.7	52.38	UL-RL	5.6410E+04	-10.000	85.71
1.000	1.000	115.0	0.000	0.000	Ug5_2_8_L_0					
52 D	23.47	-1.5099E-03	120.0	29.91	120.0	53.39	UL-RL	5.6410E+04	-10.200	87.43
1.000	1.000	117.3	0.000	0.000	Ug5_2_8_L_0					
53 D	23.92	-1.3708E-03	122.3	30.48	122.3	54.40	UL-RL	5.6410E+04	-10.400	89.14
1.000	1.000	119.6	0.000	0.000	Ug5_2_8_L_0					
54 D	24.38	-1.2403E-03	124.6	31.06	124.6	55.42	UL-RL	5.6410E+04	-10.600	90.86
1.000	1.000	121.9	0.000	0.000	Ug5_2_8_L_0					
55 D	24.84	-1.1180E-03	126.9	31.63	126.9	56.43	UL-RL	5.6410E+04	-10.800	92.57
1.000	1.000	124.2	0.000	0.000	Ug5_2_8_L_0					
56 D	25.30	-1.0038E-03	129.2	32.21	129.2	57.44	UL-RL	5.6410E+04	-11.000	94.29
1.000	1.000	126.5	0.000	0.000	Ug5_2_8_L_0					
57 D	25.76	-8.9706E-04	131.5	32.78	131.5	58.46	UL-RL	5.6410E+04	-11.200	96.00
1.000	1.000	128.8	0.000	0.000	Ug5_2_8_L_0					
58 D	26.21	-7.9758E-04	133.8	33.36	133.8	59.47	UL-RL	5.6410E+04	-11.400	97.71
1.000	1.000	131.1	0.000	0.000	Ug5_2_8_L_0					
59 D	26.67	-7.0491E-04	136.1	33.94	136.1	60.48	UL-RL	5.6410E+04	-11.600	99.43
1.000	1.000	133.4	0.000	0.000	Ug5_2_8_L_0					
60 D	27.13	-6.1864E-04	138.4	34.51	138.4	61.50	UL-RL	5.6410E+04	-11.800	101.1
1.000	1.000	135.6	0.000	0.000	Ug5_2_8_L_0					
61 D	27.59	-5.3834E-04	140.7	35.08	140.7	62.52	UL-RL	5.6410E+04	-12.000	102.9
1.000	1.000	137.9	0.000	0.000	Ug5_2_8_L_0					
62 D	31.78	-4.6357E-04	142.8	54.32	142.8	63.50	UL-RL	2.7006E+04	-12.200	104.6
1.000	1.000	158.9	0.000	0.000	Ug6_741_743_L_0					
63 D	32.70	-3.9386E-04	144.9	57.20	144.9	64.61	UL-RL	2.7006E+04	-12.400	106.3
1.000	1.000	163.5	0.000	0.000	Ug6_741_743_L_0					
64 D	33.59	-3.2876E-04	147.0	59.94	147.0	65.66	UL-RL	2.7006E+04	-12.600	108.0
1.000	1.000	167.9	0.000	0.000	Ug6_741_743_L_0					
65 D	34.46	-2.6781E-04	149.0	62.56	149.0	66.67	UL-RL	2.7006E+04	-12.800	109.7
1.000	1.000	172.3	0.000	0.000	Ug6_741_743_L_0					
66 D	35.30	-2.1060E-04	151.1	65.07	151.1	67.64	UL-RL	2.7006E+04	-13.000	111.4
1.000	1.000	176.5	0.000	0.000	Ug6_741_743_L_0					
67 D	36.13	-1.5669E-04	153.1	67.49	153.1	68.59	UL-RL	2.7006E+04	-13.200	113.1
1.000	1.000	180.6	0.000	0.000	Ug6_741_743_L_0					
68 D	36.82	-1.0569E-04	155.2	69.25	155.2	69.79	UL-RL	2.7006E+04	-13.400	114.9
1.000	1.000	184.1	0.000	0.000	Ug6_741_743_L_0					
69 D	37.47	-5.7227E-05	157.2	70.78	157.2	71.05	UL-RL	2.7006E+04	-13.600	116.6
1.000	1.000	187.4	0.000	0.000	Ug6_741_743_L_0					
70 D	38.08	-1.0936E-05	159.3	72.12	159.3	72.36	UL-RL	2.7006E+04	-13.800	118.3
1.000	1.000	190.4	0.000	0.000	Ug6_741_743_L_0					
71 D	38.68	3.3511E-05	161.3	73.42	161.3	73.65	UL-RL	2.7006E+04	-14.000	120.0
1.000	1.000	193.4	0.000	0.000	Ug6_741_743_L_0					
72 D	39.28	7.6422E-05	163.4	74.71	163.4	74.92	UL-RL	2.7006E+04	-14.200	121.7
1.000	1.000	196.4	0.000	0.000	Ug6_741_743_L_0					
73 D	39.88	1.1808E-04	165.4	75.98	165.4	76.17	UL-RL	2.7006E+04	-14.400	123.4
1.000	1.000	199.4	0.000	0.000	Ug6_741_743_L_0					
74 D	40.48	1.5873E-04	167.5	77.24	167.5	77.40	UL-RL	2.7006E+04	-14.600	125.1
1.000	1.000	202.4	0.000	0.000	Ug6_741_743_L_0					
75 D	41.07	1.9862E-04	169.5	78.48	169.5	78.63	UL-RL	2.7006E+04	-14.800	126.9
1.000	1.000	205.3	0.000	0.000	Ug6_741_743_L_0					
76 D	41.66	2.3792E-04	171.6	79.72	171.6	79.85	UL-RL	2.7006E+04	-15.000	128.6
1.000	1.000	208.3	0.000	0.000	Ug6_741_743_L_0					
77 D	42.25	2.7683E-04	173.7	80.96	173.7	81.06	UL-RL	2.7006E+04	-15.200	130.3
1.000	1.000	211.2	0.000	0.000	Ug6_741_743_L_0					
78 D	42.85	3.1547E-04	175.7	82.25	175.7	82.33	UL-RL	2.7006E+04	-15.400	132.0
1.000	1.000	214.2	0.000	0.000	Ug6_741_743_L_0					



79 D	43.45	3.5397E-04	177.8	83.54	177.8	83.60	UL-RL	2.7006E+04	-15.60	133.7
1.000	1.000	217.3	0.000	0.000	Ug6_741_743_L_0					
80 D	44.05	3.9239E-04	179.8	84.83	179.8	84.87	UL-RL	2.7006E+04	-15.80	135.4
1.000	1.000	220.3	0.000	0.000	Ug6_741_743_L_0					
81 D	22.33	4.3079E-04	181.9	86.12	181.9	86.14	UL-RL	2.7006E+04	-16.00	137.1
1.000	1.000	223.3	0.000	0.000	Ug6_741_743_L_0					

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*          |
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New Project

STRESS RESULTS FOR GROUP NO. 2

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ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 81
CURRENT TIME IS 5.0000

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HARDENING 2D SOIL ELEMENT

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

EL * FACTOR	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
1	0.000	--	--	--	--	--	REMOVED	--	0.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
2	0.000	--	--	--	--	--	REMOVED	--	-0.2000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
3	0.000	--	--	--	--	--	REMOVED	--	-0.4000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
4	0.000	--	--	--	--	--	REMOVED	--	-0.6000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
5	0.000	--	--	--	--	--	REMOVED	--	-0.8000	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	--	-1.200	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
8	0.000	--	--	--	--	--	REMOVED	--	-1.400	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
9	0.000	--	--	--	--	--	REMOVED	--	-1.600	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
10	0.000	--	--	--	--	--	REMOVED	--	-1.800	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
11	0.000	--	--	--	--	--	REMOVED	--	-2.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
12	0.000	--	--	--	--	--	REMOVED	--	-2.200	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
13	0.000	--	--	--	--	--	REMOVED	--	-2.400	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
14	0.000	--	--	--	--	--	REMOVED	--	-2.600	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
15	0.000	--	--	--	--	--	REMOVED	--	-2.800	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
16	0.000	--	--	--	--	--	REMOVED	--	-3.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
17	0.000	--	--	--	--	--	REMOVED	--	-3.200	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
18	0.000	--	--	--	--	--	REMOVED	--	-3.400	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
19	0.000	--	--	--	--	--	REMOVED	--	-3.600	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
20	0.000	--	--	--	--	--	REMOVED	--	-3.800	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
21 D	0.000	1.0746E-02	0.000	0.000	40.00	60.41	PASSIVE	0.000	-4.000	0.000	
1.000	1.000	0.000	0.000	0.000	Ug5_2_8_L_0						
22 D	2.767	1.0323E-02	1.714	11.55	42.00	66.22	PASSIVE	0.000	-4.200	2.286	
1.000	1.000	13.84	0.000	0.000	Ug5_2_8_L_0						
23 D	5.535	9.9044E-03	3.429	23.10	44.00	64.70	PASSIVE	0.000	-4.400	4.571	
1.000	1.000	27.67	0.000	0.000	Ug5_2_8_L_0						
24 D	8.302	9.4901E-03	5.143	34.65	46.00	63.25	PASSIVE	0.000	-4.600	6.857	
1.000	1.000	41.51	0.000	0.000	Ug5_2_8_L_0						
25 D	11.07	9.0811E-03	6.857	46.20	48.00	61.85	PASSIVE	0.000	-4.800	9.143	
1.000	1.000	55.35	0.000	0.000	Ug5_2_8_L_0						
26 D	13.84	8.6781E-03	8.571	57.75	50.00	60.52	PASSIVE	0.000	-5.000	11.43	
1.000	1.000	69.18	0.000	0.000	Ug5_2_8_L_0						
27 D	16.60	8.2815E-03	10.29	69.31	52.00	69.31	PASSIVE	0.000	-5.200	13.71	
1.000	1.000	83.02	0.000	0.000	Ug5_2_8_L_0						
28 D	19.37	7.8922E-03	12.00	80.86	54.00	80.86	PASSIVE	0.000	-5.400	16.00	
1.000	1.000	96.86	0.000	0.000	Ug5_2_8_L_0						
29 D	22.14	7.5106E-03	13.71	92.41	56.00	92.41	PASSIVE	0.000	-5.600	18.29	
1.000	1.000	110.7	0.000	0.000	Ug5_2_8_L_0						
30 D	24.48	7.1373E-03	15.43	101.8	58.00	101.8	V-C	9348.	-5.800	20.57	
1.000	1.000	122.4	0.000	0.000	Ug5_2_8_L_0						
31 D	24.32	6.7729E-03	17.14	98.74	60.00	98.74	V-C	9348.	-6.000	22.86	
1.000	1.000	121.6	0.000	0.000	Ug5_2_8_L_0						
32 D	24.18	6.4177E-03	18.86	95.78	62.00	95.78	V-C	9348.	-6.200	25.14	
1.000	1.000	120.9	0.000	0.000	Ug5_2_8_L_0						
33 D	24.07	6.0721E-03	20.57	92.93	64.00	92.93	V-C	9348.	-6.400	27.43	

1.000	1.000	120.4	0.000	0.000	Ug5_2_8_L_0						
34 D	23.98	5.7365E-03	22.29	90.20	66.00	90.20	V-C	9348.	-6.600	29.71	
1.000	1.000	119.9	0.000	0.000	Ug5_2_8_L_0						
35 D	23.92	5.4112E-03	24.00	87.60	68.00	87.60	V-C	9348.	-6.800	32.00	
1.000	1.000	119.6	0.000	0.000	Ug5_2_8_L_0						
36 D	23.88	5.0963E-03	25.71	85.13	70.00	85.13	V-C	9348.	-7.000	34.29	
1.000	1.000	119.4	0.000	0.000	Ug5_2_8_L_0						
37 D	23.87	4.7921E-03	27.43	82.78	72.00	82.78	V-C	9348.	-7.200	36.57	
1.000	1.000	119.4	0.000	0.000	Ug5_2_8_L_0						
38 D	23.88	4.4986E-03	29.14	80.56	74.00	80.56	V-C	9348.	-7.400	38.86	
1.000	1.000	119.4	0.000	0.000	Ug5_2_8_L_0						
39 D	23.92	4.2160E-03	30.86	78.47	76.00	78.47	V-C	9348.	-7.600	41.14	
1.000	1.000	119.6	0.000	0.000	Ug5_2_8_L_0						
40 D	23.99	3.9443E-03	32.57	76.52	78.00	76.52	V-C	9348.	-7.800	43.43	
1.000	1.000	119.9	0.000	0.000	Ug5_2_8_L_0						
41 D	24.08	3.6835E-03	34.29	74.69	80.00	74.69	V-C	9348.	-8.000	45.71	
1.000	1.000	120.4	0.000	0.000	Ug5_2_8_L_0						
42 D	24.20	3.4336E-03	36.00	72.99	82.00	72.99	V-C	9348.	-8.200	48.00	
1.000	1.000	121.0	0.000	0.000	Ug5_2_8_L_0						
43 D	24.34	3.1946E-03	37.71	71.42	84.00	71.42	V-C	9348.	-8.400	50.29	
1.000	1.000	121.7	0.000	0.000	Ug5_2_8_L_0						
44 D	24.51	2.9664E-03	39.43	69.97	86.00	69.97	V-C	9348.	-8.600	52.57	
1.000	1.000	122.5	0.000	0.000	Ug5_2_8_L_0						
45 D	24.70	2.7488E-03	41.14	68.65	88.00	68.65	V-C	9348.	-8.800	54.86	
1.000	1.000	123.5	0.000	0.000	Ug5_2_8_L_0						
46 D	24.92	2.5418E-03	42.86	67.45	90.00	67.45	V-C	9348.	-9.000	57.14	
1.000	1.000	124.6	0.000	0.000	Ug5_2_8_L_0						
47 D	25.16	2.3451E-03	44.57	66.37	92.00	66.37	UL-RL	2.8045E+04	-9.200	59.43	
1.000	1.000	125.8	0.000	0.000	Ug5_2_8_L_0						
48 D	25.42	2.1586E-03	46.29	65.41	94.00	65.41	UL-RL	2.8045E+04	-9.400	61.71	
1.000	1.000	127.1	0.000	0.000	Ug5_2_8_L_0						
49 D	25.71	1.9821E-03	48.00	64.56	96.00	64.56	UL-RL	2.8045E+04	-9.600	64.00	
1.000	1.000	128.6	0.000	0.000	Ug5_2_8_L_0						
50 D	26.02	1.8153E-03	49.71	63.82	98.00	63.82	UL-RL	2.8045E+04	-9.800	66.29	
1.000	1.000	130.1	0.000	0.000	Ug5_2_8_L_0						
51 D	26.35	1.6580E-03	51.43	63.18	100.00	63.19	UL-RL	2.8045E+04	-10.000	68.57	
1.000	1.000	131.8	0.000	0.000	Ug5_2_8_L_0						
52 D	26.70	1.5099E-03	53.14	62.65	102.0	62.66	UL-RL	2.8045E+04	-10.200	70.86	
1.000	1.000	133.5	0.000	0.000	Ug5_2_8_L_0						
53 D	27.07	1.3708E-03	54.86	62.22	104.0	62.23	UL-RL	2.8045E+04	-10.400	73.14	
1.000	1.000	135.4	0.000	0.000	Ug5_2_8_L_0						
54 D	27.46	1.2403E-03	56.57	61.89	106.0	61.90	UL-RL	2.8045E+04	-10.600	75.43	
1.000	1.000	137.3	0.000	0.000	Ug5_2_8_L_0						
55 D	27.87	1.1180E-03	58.29	61.65	108.0	61.66	UL-RL	2.8045E+04	-10.800	77.71	
1.000	1.000	139.4	0.000	0.000	Ug5_2_8_L_0						
56 D	28.30	1.0038E-03	60.00	61.49	110.0	61.51	UL-RL	2.8045E+04	-11.000	80.00	
1.000	1.000	141.5	0.000	0.000	Ug5_2_8_L_0						
57 D	28.74	8.9706E-04	61.71	61.42	112.0	61.44	UL-RL	2.8045E+04	-11.200	82.29	
1.000	1.000	143.7	0.000	0.000	Ug5_2_8_L_0						
58 D	29.20	7.9758E-04	63.43	61.42	114.0	61.45	UL-RL	2.8045E+04	-11.400	84.57	
1.000	1.000	146.0	0.000	0.000	Ug5_2_8_L_0						
59 D	29.67	7.0491E-04	65.14	61.50	116.0	61.53	UL-RL	2.8045E+04	-11.600	86.86	
1.000	1.000	148.4	0.000	0.000	Ug5_2_8_L_0						
60 D	30.16	6.1864E-04	66.86	61.65	118.0	61.68	UL-RL	2.8045E+04	-11.800	89.14	
1.000	1.000	150.8	0.000	0.000	Ug5_2_8_L_0						
61 D	30.66	5.3834E-04	68.57	61.86	120.0	61.89	UL-RL	2.8045E+04	-12.000	91.43	
1.000	1.000	153.3	0.000	0.000	Ug5_2_8_L_0						
62 D	30.57	4.6357E-04	70.09	59.14	121.8	61.46	UL-RL	2.1089E+04	-12.200	93.71	
1.000	1.000	152.9	0.000	0.000	Ug6_741_743_L_0						
63 D	30.90	3.9386E-04	71.60	58.52	123.6	62.35	UL-RL	2.1089E+04	-12.400	96.00	
1.000	1.000	154.5	0.000	0.000	Ug6_741_743_L_0						
64 D	31.26	3.2876E-04	73.11	58.01	125.4	63.23	UL-RL	2.1089E+04	-12.600	98.29	
1.000	1.000	156.3	0.000	0.000	Ug6_741_743_L_0						
65 D	31.63	2.6781E-04	74.63	57.59	127.2	64.12	UL-RL	2.1089E+04	-12.800	100.6	
1.000	1.000	158.2	0.000	0.000	Ug6_741_743_L_0						
66 D	32.02	2.1060E-04	76.14	57.26	129.0	65.01	UL-RL	2.1089E+04	-13.000	102.9	
1.000	1.000	160.1	0.000	0.000	Ug6_741_743_L_0						
67 D	32.43	1.5669E-04	77.66	57.00	130.8	65.89	UL-RL	2.1089E+04	-13.200	105.1	
1.000	1.000	162.1	0.000	0.000	Ug6_741_743_L_0						
68 D	32.85	1.0569E-04	79.17	56.81	132.6	66.78	UL-RL	2.1089E+04	-13.400	107.4	
1.000	1.000	164.2	0.000	0.000	Ug6_741_743_L_0						
69 D	33.28	5.7227E-05	80.69	56.68	134.4	67.67	UL-RL	2.1089E+04	-13.600	109.7	
1.000	1.000	166.4	0.000	0.000	Ug6_741_743_L_0						
70 D	33.72	1.0936E-05	82.20	56.59	136.2	68.55	UL-RL	2.1089E+04	-13.800	112.0	
1.000	1.000	168.6	0.000	0.000	Ug6_741_743_L_0						
71 D	34.17	-3.3511E-05	83.71	56.55	138.0	69.44	UL-RL	2.1089E+04	-14.000	114.3	
1.000	1.000	170.8	0.000	0.000	Ug6_741_743_L_0						
72 D	34.62	-7.6422E-05	85.23	56.54	139.8	70.33	UL-RL	2.1089E+04	-14.200	116.6	
1.000	1.000	173.1	0.000	0.000	Ug6_741_743_L_0						
73 D	35.08	-1.1808E-04	86.74	56.56	141.6	71.22	UL-RL	2.1089E+04	-14.400	118.9	
1.000	1.000	175.4	0.000	0.000	Ug6_741_743_L_0						
74 D	35.55	-1.5873E-04	88.26	56.60	143.4	72.11	UL-RL	2.1089E+04	-14.600	121.1	
1.000	1.000	177.7	0.000	0.000	Ug6_741_743_L_0						
75 D	36.02	-1.9862E-04	89.77	56.65	145.2	73.00	UL-RL	2.1089E+04	-14.800	123.4	
1.000	1.000	180.1	0.000	0.000	Ug6_741_743_L_0						
76 D	36.49	-2.3792E-04	91.29	56.72	147.0	73.89	UL-RL	2.1089E+04	-15.000	125.7	
1.000	1.000	182.4	0.000	0.000	Ug6_741_743_L_0						
77 D	36.96	-2.7683E-04	92.80	56.80	148.8	74.78	UL-RL	2.1089E+04	-15.200	128.0	
1.000	1.000	184.8	0.000	0.000	Ug6_741_743_L_0						
78 D	37.43	-3.1547E-04	94.31	56.88	150.6	75.67	UL-RL	2.1089E+04	-15.400	130.3	
1.000	1.000	187.2	0.000	0.000	Ug6_741_743_L_0						

79 D	37.91	-3.5397E-04	95.83	56.97	152.4	76.56	UL-RL	2.1089E+04	-15.60	132.6
1.000	1.000	189.5	0.000	0.000	Ug6_741_743_L_0					
80 D	38.38	-3.9239E-04	97.34	57.05	154.2	77.45	UL-RL	2.1089E+04	-15.80	134.9
1.000	1.000	191.9	0.000	0.000	Ug6_741_743_L_0					
81 D	19.43	-4.3079E-04	98.86	57.14	156.0	78.34	UL-RL	2.1089E+04	-16.00	137.1
1.000	1.000	194.3	0.000	0.000	Ug6_741_743_L_0					

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|                PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
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New Project

STRESS RESULTS FOR GROUP NO. 3

WallElement\_33 :  
ELEMENT TYPE 2 NO.OF ELEMENTS. IN THIS GROUP 80  
CURRENT TIME IS 5.0000

WALL2D ELEMENT

EL	TA	TB	MA	MB
1	3.17780E-09	-3.17780E-09	3.15935E-10	3.64109E-10
2	0.45715	-0.45715	-2.61674E-10	9.14302E-02
3	1.3738	-1.3738	-9.14302E-02	0.36619
4	2.7529	-2.7529	-0.36619	0.91677
5	4.5967	-4.5967	-0.91677	1.8361
6	6.9062	-6.9062	-1.8361	3.2174
7	9.6814	-9.6814	-3.2174	5.1536
8	12.928	-12.928	-5.1536	7.7393
9	16.650	-16.650	-7.7393	11.069
10	20.832	-20.832	-11.069	15.236
11	25.485	-25.485	-15.236	20.333
12	30.604	-30.604	-20.333	26.453
13	36.182	-36.182	-26.453	33.690
14	42.226	-42.226	-33.690	42.135
15	48.734	-48.734	-42.135	51.882
16	55.704	-55.704	-51.882	63.023
17	63.133	-63.133	-63.023	75.649
18	71.023	-71.023	-75.649	89.854
19	79.374	-79.374	-89.854	105.73
20	88.183	-88.183	-105.73	123.37
21	97.452	-97.452	-123.37	142.86
22	104.42	-104.42	-142.86	163.74
23	109.07	-109.07	-163.74	185.55
24	111.41	-111.41	-185.55	207.83
25	111.45	-111.45	-207.83	230.12
26	109.18	-109.18	-230.12	251.96
27	104.60	-104.60	-251.96	272.88
28	97.707	-97.707	-272.88	292.42
29	88.509	-88.509	-292.42	310.12
30	77.428	-77.428	-310.12	325.61
31	66.964	-66.964	-325.61	339.00
32	57.095	-57.095	-339.00	350.42
33	47.794	-47.794	-350.42	359.98
34	39.040	-39.040	-359.98	367.79
35	30.807	-30.807	-367.79	373.95
36	23.071	-23.071	-373.95	378.56
37	15.803	-15.803	-378.56	381.72
38	8.9795	-8.9795	-381.72	383.52
39	2.5746	-2.5746	-383.52	384.03
40	-3.4399	3.4399	-384.03	383.35
41	-9.0879	9.0879	-383.35	381.53
42	-14.395	14.395	-381.53	378.65
43	-19.389	19.389	-378.65	374.77
44	-24.093	24.093	-374.77	369.95
45	-28.532	28.532	-369.95	364.25
46	-32.731	32.731	-364.25	357.70
47	-36.714	36.714	-357.70	350.36
48	-40.504	40.504	-350.36	342.26
49	-44.124	44.124	-342.26	333.43
50	-47.596	47.596	-333.43	323.91
51	-50.942	50.942	-323.91	313.72
52	-54.182	54.182	-313.72	302.89
53	-57.337	57.337	-302.89	291.42
54	-60.425	60.425	-291.42	279.34
55	-63.464	63.464	-279.34	266.64
56	-66.472	66.472	-266.64	253.35
57	-69.466	69.466	-253.35	239.46
58	-72.462	72.462	-239.46	224.96
59	-75.474	75.474	-224.96	209.87
60	-78.516	78.516	-209.87	194.16
61	-81.601	81.601	-194.16	177.84
62	-80.394	80.394	-177.84	161.77
63	-78.601	78.601	-161.77	146.05
64	-76.270	76.270	-146.05	130.79
65	-73.447	73.447	-130.79	116.10
66	-70.170	70.170	-116.10	102.07
67	-66.473	66.473	-102.07	88.773
68	-62.501	62.501	-88.773	76.273
69	-58.308	58.308	-76.273	64.611

70	-53.947	53.947	-64.611	53.822
71	-49.429	49.429	-53.822	43.936
72	-44.767	44.767	-43.936	34.983
73	-39.968	39.968	-34.983	26.989
74	-35.040	35.040	-26.989	19.981
75	-29.988	29.988	-19.981	13.983
76	-24.816	24.816	-13.983	9.0202
77	-19.527	19.527	-9.0202	5.1149
78	-14.110	14.110	-5.1149	2.2929
79	-8.5669	8.5669	-2.2929	0.57956
80	-2.8976	2.8976	-0.57956	-1.74749E-12

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ITER      0  RNORM = 0.000      RMNORM= 0.000
            RINORM=0.6121E+06  RIMNOR=0.8268E+07
            RENORM= 441.9      REMNOR=0.1295E-17  RATIO =0.2687E-01  TOLER =0.1000E-03  NOT CONVERGED
            RFMAX = 111.4      RMMAX = 384.0
            RTSMAL=0.1000E-02  RMSMAL=0.1000E-02
            RDT =0.6121E+06    RDR =0.8268E+07
            RATIOI=0.2687E-01  RATIOOR= 0.000
            MAX UN= 7.064      IEQ= 57 NODE      29 DOF      1 Y-DISPL.F
            MIN UN=-.8312E-01  IEQ= 41 NODE      21 DOF      1 Y-DISPL.F
            NO. OF CONTACT CONSTRAINT VIOLATIONS      0
  
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ITER      2  RNORM = 0.000      RMNORM= 0.000
            RINORM=0.6121E+06  RIMNOR=0.8268E+07
            RENORM= 126.8      REMNOR=0.1872E-17  RATIO =0.1439E-01  TOLER =0.1000E-03  NOT CONVERGED
            RFMAX = 111.4      RMMAX = 384.0
            RTSMAL=0.1000E-02  RMSMAL=0.1000E-02
            RDT =0.6121E+06    RDR =0.8268E+07
            RATIOI=0.1439E-01  RATIOOR= 0.000
            MAX UN= 2.447      IEQ= 63 NODE      32 DOF      1 Y-DISPL.F
            MIN UN=-.6929E-08  IEQ= 1 NODE      1 DOF      1 Y-DISPL.F
            NO. OF CONTACT CONSTRAINT VIOLATIONS      0
  
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ITER      3  RNORM = 0.000      RMNORM= 0.000
            RINORM=0.6121E+06  RIMNOR=0.8268E+07
            RENORM= 463.8      REMNOR=0.2041E-17  RATIO =0.2753E-01  TOLER =0.1000E-03  NOT CONVERGED
            RFMAX = 111.4      RMMAX = 384.0
            RTSMAL=0.1000E-02  RMSMAL=0.1000E-02
            RDT =0.6121E+06    RDR =0.8268E+07
            RATIOI=0.2753E-01  RATIOOR= 0.000
            MAX UN= 21.42      IEQ= 3 NODE      2 DOF      1 Y-DISPL.F
            MIN UN=-.5804      IEQ= 159 NODE     80 DOF      1 Y-DISPL.F
            NO. OF CONTACT CONSTRAINT VIOLATIONS      0
  
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ITER      4  RNORM = 0.000      RMNORM= 0.000
            RINORM=0.6121E+06  RIMNOR=0.8268E+07
            RENORM= 3.140      REMNOR=0.3408E-17  RATIO =0.2265E-02  TOLER =0.1000E-03  NOT CONVERGED
            RFMAX = 111.4      RMMAX = 384.0
            RTSMAL=0.1000E-02  RMSMAL=0.1000E-02
            RDT =0.6121E+06    RDR =0.8268E+07
            RATIOI=0.2265E-02  RATIOOR= 0.000
            MAX UN= 1.268      IEQ= 67 NODE      34 DOF      1 Y-DISPL.F
            MIN UN=-.8810      IEQ= 147 NODE     74 DOF      1 Y-DISPL.F
            NO. OF CONTACT CONSTRAINT VIOLATIONS      0
  
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ITER      5  RNORM = 0.000      RMNORM= 0.000
            RINORM=0.6121E+06  RIMNOR=0.8268E+07
            RENORM=0.6185E-02  REMNOR=0.2148E-17  RATIO =0.1005E-03  TOLER =0.1000E-03  NOT CONVERGED
            RFMAX = 111.4      RMMAX = 384.0
            RTSMAL=0.1000E-02  RMSMAL=0.1000E-02
            RDT =0.6121E+06    RDR =0.8268E+07
            RATIOI=0.1005E-03  RATIOOR= 0.000
            MAX UN=0.5944E-01  IEQ= 127 NODE     64 DOF      1 Y-DISPL.F
            MIN UN=-.9262E-08  IEQ= 31 NODE      16 DOF      1 Y-DISPL.F
            NO. OF CONTACT CONSTRAINT VIOLATIONS      0
  
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ITER      6  RNORM = 0.000      RMNORM= 0.000
            RINORM=0.6121E+06  RIMNOR=0.8268E+07
            RENORM=0.4069E-04  REMNOR=0.1375E-17  RATIO =0.8154E-05  TOLER =0.1000E-03  CONVERGED !
            RFMAX = 111.4      RMMAX = 384.0
            RTSMAL=0.1000E-02  RMSMAL=0.1000E-02
            RDT =0.6121E+06    RDR =0.8268E+07
            RATIOI=0.8154E-05  RATIOOR= 0.000
            MAX UN=0.8335E-08  IEQ= 33 NODE      17 DOF      1 Y-DISPL.F
            MIN UN=-.2343E-02  IEQ= 139 NODE     70 DOF      1 Y-DISPL.F
            NO. OF CONTACT CONSTRAINT VIOLATIONS      0
  
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|                PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
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New Project
SOLUTION REACHED USING      6 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   6   ( AT TIME   6.000   )

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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	3.0171579E-02	-3.1743850E-03	
2	2.9536702E-02	-3.1743850E-03	
3	2.8901825E-02	-3.1743786E-03	
4	2.8266952E-02	-3.1743465E-03	
5	2.7632091E-02	-3.1742564E-03	
6	2.6997257E-02	-3.1740632E-03	
7	2.6362476E-02	-3.1737084E-03	
8	2.5727789E-02	-3.1731207E-03	
9	2.5093249E-02	-3.1722155E-03	
10	2.4458930E-02	-3.1708949E-03	
11	2.3824926E-02	-3.1690480E-03	
12	2.3191354E-02	-3.1665507E-03	
13	2.2558358E-02	-3.1632658E-03	
14	2.1926111E-02	-3.1590429E-03	
15	2.1294815E-02	-3.1537190E-03	
16	2.0664708E-02	-3.1471176E-03	
17	2.0036062E-02	-3.1390496E-03	
18	1.9409197E-02	-3.1293128E-03	
19	1.8784463E-02	-3.1176919E-03	
20	1.8162261E-02	-3.1039590E-03	
21	1.7543039E-02	-3.0878732E-03	
22	1.6927288E-02	-3.0691803E-03	
23	1.6315559E-02	-3.0476137E-03	
24	1.5708453E-02	-3.0228938E-03	
25	1.5106630E-02	-2.9947471E-03	
26	1.4510798E-02	-2.9629459E-03	
27	1.3921709E-02	-2.9273266E-03	
28	1.3340131E-02	-2.8877901E-03	
29	1.2766856E-02	-2.8443020E-03	
30	1.2202672E-02	-2.7968925E-03	
31	1.1648354E-02	-2.7456564E-03	
32	1.1104656E-02	-2.6907531E-03	
33	1.0572285E-02	-2.6324061E-03	
34	1.0051904E-02	-2.5709039E-03	
35	9.5441105E-03	-2.5065996E-03	
36	9.0494250E-03	-2.4398868E-03	
37	8.5682926E-03	-2.37111570E-03	
38	8.1010745E-03	-2.3007789E-03	
39	7.6480677E-03	-2.2291013E-03	
40	7.2094988E-03	-2.1564527E-03	
41	6.7855307E-03	-2.0831427E-03	
42	6.3762664E-03	-2.0094626E-03	
43	5.9817521E-03	-1.9356864E-03	
44	5.6019810E-03	-1.8620721E-03	
45	5.2368981E-03	-1.7888623E-03	
46	4.8863958E-03	-1.7162840E-03	
47	4.5503280E-03	-1.6445519E-03	
48	4.2285052E-03	-1.5738672E-03	
49	3.9206987E-03	-1.5044194E-03	
50	3.6266445E-03	-1.4363874E-03	
51	3.3460397E-03	-1.3699387E-03	
52	3.0785464E-03	-1.3052307E-03	
53	2.8238268E-03	-1.2424201E-03	
54	2.5814557E-03	-1.1816412E-03	
55	2.3510257E-03	-1.1230322E-03	
56	2.1320896E-03	-1.0667220E-03	
57	1.9241754E-03	-1.0128335E-03	
58	1.7267869E-03	-9.6148451E-04	
59	1.5394048E-03	-9.1278846E-04	
60	1.3614874E-03	-8.6685482E-04	
61	1.1924716E-03	-8.2378973E-04	
62	1.0317734E-03	-7.8369645E-04	
63	8.7879137E-04	-7.4662776E-04	
64	7.3292045E-04	-7.1258602E-04	
65	5.9355514E-04	-6.8157150E-04	
66	4.6009098E-04	-6.5356999E-04	
67	3.3192916E-04	-6.2853830E-04	
68	2.0848258E-04	-6.0640276E-04	
69	8.9181717E-05	-5.8706228E-04	
70	-2.6520312E-05	-5.7039157E-04	
71	-1.3914317E-04	-5.5624476E-04	
72	-2.4917567E-04	-5.4445974E-04	
73	-3.5707276E-04	-5.3486011E-04	

74	-4.6325272E-04	-5.2725563E-04
75	-5.6809443E-04	-5.2144255E-04
76	-6.7193470E-04	-5.1720388E-04
77	-7.7506561E-04	-5.1430963E-04
78	-8.7773198E-04	-5.1251688E-04
79	-9.8012875E-04	-5.1156982E-04
80	-1.0823984E-03	-5.1119956E-04
81	-1.1846333E-03	-5.1112420E-04



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|                PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
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NewProject.BaseDesignSection_28.A1M1R1_1757
Exe Time :24 May 2018      18:25:47

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New Project

STRESS RESULTS FOR GROUP NO. 1

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0_L
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 81
CURRENT TIME IS 6.0000

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HARDENING 2D SOIL ELEMENT

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

EL * FACTOR	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
1 D	0.000	-3.0172E-02	0.000	0.000	0.000	0.000	ACTIVE	0.000	0.000	0.000	
1.000	1.000	0.000	0.000	0.000	Ug5_2_8_L_0						
2 D	0.4509	-2.9537E-02	2.337	0.5818	2.337	1.690	ACTIVE	0.000	-0.2000	1.673	
1.000	1.000	2.255	0.000	0.000	Ug5_2_8_L_0						
3 D	0.9041	-2.8902E-02	4.720	1.175	4.720	3.281	ACTIVE	0.000	-0.4000	3.345	
1.000	1.000	4.521	0.000	0.000	Ug5_2_8_L_0						
4 D	1.360	-2.8267E-02	7.164	1.784	7.164	4.727	ACTIVE	0.000	-0.6000	5.018	
1.000	1.000	6.802	0.000	0.000	Ug5_2_8_L_0						
5 D	1.819	-2.7632E-02	9.652	2.403	9.652	6.034	ACTIVE	0.000	-0.8000	6.691	
1.000	1.000	9.094	0.000	0.000	Ug5_2_8_L_0						
6 D	2.278	-2.6997E-02	12.16	3.028	12.16	7.235	ACTIVE	0.000	-1.0000	8.364	
1.000	1.000	11.39	0.000	0.000	Ug5_2_8_L_0						
7 D	2.738	-2.6362E-02	14.67	3.652	14.67	8.362	ACTIVE	0.000	-1.2000	10.04	
1.000	1.000	13.69	0.000	0.000	Ug5_2_8_L_0						
8 D	3.203	-2.5728E-02	17.30	4.308	17.30	9.440	ACTIVE	0.000	-1.4000	11.71	
1.000	1.000	16.02	0.000	0.000	Ug5_2_8_L_0						
9 D	3.671	-2.5093E-02	19.97	4.974	19.97	10.49	ACTIVE	0.000	-1.6000	13.38	
1.000	1.000	18.36	0.000	0.000	Ug5_2_8_L_0						
10 D	4.127	-2.4459E-02	22.40	5.579	22.40	11.51	ACTIVE	0.000	-1.8000	15.05	
1.000	1.000	20.63	0.000	0.000	Ug5_2_8_L_0						
11 D	4.590	-2.3825E-02	24.99	6.221	24.99	12.52	ACTIVE	0.000	-2.0000	16.73	
1.000	1.000	22.95	0.000	0.000	Ug5_2_8_L_0						
12 D	5.051	-2.3191E-02	27.53	6.854	27.53	13.53	ACTIVE	0.000	-2.2000	18.40	
1.000	1.000	25.25	0.000	0.000	Ug5_2_8_L_0						
13 D	5.504	-2.2558E-02	29.90	7.445	29.90	14.52	ACTIVE	0.000	-2.4000	20.07	
1.000	1.000	27.52	0.000	0.000	Ug5_2_8_L_0						
14 D	5.962	-2.1926E-02	32.40	8.067	32.40	15.52	ACTIVE	0.000	-2.6000	21.75	
1.000	1.000	29.81	0.000	0.000	Ug5_2_8_L_0						
15 D	6.420	-2.1295E-02	34.87	8.683	34.87	16.51	ACTIVE	0.000	-2.8000	23.42	
1.000	1.000	32.10	0.000	0.000	Ug5_2_8_L_0						
16 D	6.877	-2.0665E-02	37.33	9.295	37.33	17.49	ACTIVE	0.000	-3.0000	25.09	
1.000	1.000	34.39	0.000	0.000	Ug5_2_8_L_0						
17 D	7.328	-2.0036E-02	39.67	9.877	39.67	18.48	ACTIVE	0.000	-3.2000	26.76	
1.000	1.000	36.64	0.000	0.000	Ug5_2_8_L_0						
18 D	7.784	-1.9409E-02	42.10	10.48	42.10	19.47	ACTIVE	0.000	-3.4000	28.44	
1.000	1.000	38.92	0.000	0.000	Ug5_2_8_L_0						
19 D	8.239	-1.8784E-02	44.53	11.09	44.53	20.46	ACTIVE	0.000	-3.6000	30.11	
1.000	1.000	41.20	0.000	0.000	Ug5_2_8_L_0						
20 D	8.690	-1.8162E-02	46.86	11.67	46.86	21.44	ACTIVE	0.000	-3.8000	31.78	
1.000	1.000	43.45	0.000	0.000	Ug5_2_8_L_0						
21 D	9.145	-1.7543E-02	49.27	12.27	49.27	22.43	ACTIVE	0.000	-4.0000	33.45	
1.000	1.000	45.72	0.000	0.000	Ug5_2_8_L_0						
22 D	9.599	-1.6927E-02	51.68	12.87	51.68	23.42	ACTIVE	0.000	-4.2000	35.13	
1.000	1.000	47.99	0.000	0.000	Ug5_2_8_L_0						
23 D	10.05	-1.6316E-02	54.00	13.45	54.00	24.40	ACTIVE	0.000	-4.4000	36.80	
1.000	1.000	50.25	0.000	0.000	Ug5_2_8_L_0						
24 D	10.50	-1.5708E-02	56.39	14.04	56.39	25.39	ACTIVE	0.000	-4.6000	38.47	
1.000	1.000	52.51	0.000	0.000	Ug5_2_8_L_0						
25 D	10.96	-1.5107E-02	58.78	14.64	58.78	26.38	ACTIVE	0.000	-4.8000	40.15	
1.000	1.000	54.78	0.000	0.000	Ug5_2_8_L_0						
26 D	11.41	-1.4511E-02	61.17	15.23	61.17	27.37	ACTIVE	0.000	-5.0000	41.82	
1.000	1.000	57.05	0.000	0.000	Ug5_2_8_L_0						
27 D	11.86	-1.3922E-02	63.49	15.81	63.49	28.36	ACTIVE	0.000	-5.2000	43.49	
1.000	1.000	59.30	0.000	0.000	Ug5_2_8_L_0						
28 D	12.31	-1.3340E-02	65.87	16.40	65.87	29.35	ACTIVE	0.000	-5.4000	45.16	
1.000	1.000	61.56	0.000	0.000	Ug5_2_8_L_0						
29 D	12.77	-1.2767E-02	68.24	16.99	68.24	30.34	ACTIVE	0.000	-5.6000	46.84	
1.000	1.000	63.83	0.000	0.000	Ug5_2_8_L_0						
30 D	13.22	-1.2203E-02	70.56	17.57	70.56	31.34	ACTIVE	0.000	-5.8000	48.51	
1.000	1.000	66.08	0.000	0.000	Ug5_2_8_L_0						
31 D	13.67	-1.1648E-02	72.93	18.16	72.93	32.33	ACTIVE	0.000	-6.0000	50.18	
1.000	1.000	68.34	0.000	0.000	Ug5_2_8_L_0						
32 D	14.12	-1.1105E-02	75.30	18.75	75.30	33.33	ACTIVE	0.000	-6.2000	51.85	
1.000	1.000	70.60	0.000	0.000	Ug5_2_8_L_0						
33 D	14.57	-1.0572E-02	77.62	19.33	77.62	34.32	ACTIVE	0.000	-6.4000	53.53	

1.000	1.000	72.85	0.000	0.000	Ug5_2_8_L_0						
34 D	15.02	-1.0052E-02	79.98	19.92	79.98	35.32	ACTIVE	0.000	-6.600	55.20	
1.000	1.000	75.12	0.000	0.000	Ug5_2_8_L_0						
35 D	15.48	-9.5441E-03	82.35	20.50	82.35	36.32	ACTIVE	0.000	-6.800	56.87	
1.000	1.000	77.38	0.000	0.000	Ug5_2_8_L_0						
36 D	15.93	-9.0494E-03	84.71	21.09	84.71	37.31	ACTIVE	0.000	-7.000	58.55	
1.000	1.000	79.64	0.000	0.000	Ug5_2_8_L_0						
37 D	16.38	-8.5683E-03	87.02	21.67	87.02	38.31	ACTIVE	0.000	-7.200	60.22	
1.000	1.000	81.89	0.000	0.000	Ug5_2_8_L_0						
38 D	16.83	-8.1011E-03	89.38	22.26	89.38	39.31	ACTIVE	0.000	-7.400	61.89	
1.000	1.000	84.15	0.000	0.000	Ug5_2_8_L_0						
39 D	17.28	-7.6481E-03	91.74	22.84	91.74	40.31	ACTIVE	0.000	-7.600	63.56	
1.000	1.000	86.41	0.000	0.000	Ug5_2_8_L_0						
40 D	17.73	-7.2095E-03	94.06	23.42	94.06	41.31	ACTIVE	0.000	-7.800	65.24	
1.000	1.000	88.66	0.000	0.000	Ug5_2_8_L_0						
41 D	18.18	-6.7855E-03	96.41	24.01	96.41	42.32	ACTIVE	0.000	-8.000	66.91	
1.000	1.000	90.92	0.000	0.000	Ug5_2_8_L_0						
42 D	18.63	-6.3763E-03	98.77	24.59	98.77	43.32	ACTIVE	0.000	-8.200	68.58	
1.000	1.000	93.17	0.000	0.000	Ug5_2_8_L_0						
43 D	19.08	-5.9818E-03	101.1	25.17	101.1	44.32	ACTIVE	0.000	-8.400	70.25	
1.000	1.000	95.42	0.000	0.000	Ug5_2_8_L_0						
44 D	19.54	-5.6020E-03	103.4	25.76	103.4	45.33	ACTIVE	0.000	-8.600	71.93	
1.000	1.000	97.68	0.000	0.000	Ug5_2_8_L_0						
45 D	19.99	-5.2369E-03	105.8	26.34	105.8	46.33	ACTIVE	0.000	-8.800	73.60	
1.000	1.000	99.94	0.000	0.000	Ug5_2_8_L_0						
46 D	20.44	-4.8864E-03	108.1	26.93	108.1	47.34	ACTIVE	0.000	-9.000	75.27	
1.000	1.000	102.2	0.000	0.000	Ug5_2_8_L_0						
47 D	20.89	-4.5503E-03	110.5	27.50	110.5	48.35	ACTIVE	0.000	-9.200	76.95	
1.000	1.000	104.4	0.000	0.000	Ug5_2_8_L_0						
48 D	21.34	-4.2285E-03	112.8	28.09	112.8	49.36	ACTIVE	0.000	-9.400	78.62	
1.000	1.000	106.7	0.000	0.000	Ug5_2_8_L_0						
49 D	21.79	-3.9207E-03	115.2	28.67	115.2	50.36	ACTIVE	0.000	-9.600	80.29	
1.000	1.000	109.0	0.000	0.000	Ug5_2_8_L_0						
50 D	22.24	-3.6266E-03	117.5	29.25	117.5	51.37	ACTIVE	0.000	-9.800	81.96	
1.000	1.000	111.2	0.000	0.000	Ug5_2_8_L_0						
51 D	22.69	-3.3460E-03	119.8	29.83	119.8	52.38	ACTIVE	0.000	-10.000	83.64	
1.000	1.000	113.5	0.000	0.000	Ug5_2_8_L_0						
52 D	23.15	-3.0785E-03	122.2	30.42	122.2	53.39	ACTIVE	0.000	-10.200	85.31	
1.000	1.000	115.7	0.000	0.000	Ug5_2_8_L_0						
53 D	23.60	-2.8238E-03	124.5	30.99	124.5	54.40	ACTIVE	0.000	-10.400	86.98	
1.000	1.000	118.0	0.000	0.000	Ug5_2_8_L_0						
54 D	24.05	-2.5815E-03	126.8	31.58	126.8	55.42	ACTIVE	0.000	-10.600	88.65	
1.000	1.000	120.2	0.000	0.000	Ug5_2_8_L_0						
55 D	24.50	-2.3510E-03	129.2	32.16	129.2	56.43	ACTIVE	0.000	-10.800	90.33	
1.000	1.000	122.5	0.000	0.000	Ug5_2_8_L_0						
56 D	24.95	-2.1321E-03	131.5	32.75	131.5	57.44	ACTIVE	0.000	-11.000	92.00	
1.000	1.000	124.7	0.000	0.000	Ug5_2_8_L_0						
57 D	25.40	-1.9242E-03	133.8	33.32	133.8	58.46	ACTIVE	0.000	-11.200	93.67	
1.000	1.000	127.0	0.000	0.000	Ug5_2_8_L_0						
58 D	25.85	-1.7268E-03	136.2	33.91	136.2	59.47	ACTIVE	0.000	-11.400	95.35	
1.000	1.000	129.3	0.000	0.000	Ug5_2_8_L_0						
59 D	26.30	-1.5394E-03	138.5	34.49	138.5	60.48	ACTIVE	0.000	-11.600	97.02	
1.000	1.000	131.5	0.000	0.000	Ug5_2_8_L_0						
60 D	26.75	-1.3615E-03	140.8	35.07	140.8	61.50	ACTIVE	0.000	-11.800	98.69	
1.000	1.000	133.8	0.000	0.000	Ug5_2_8_L_0						
61 D	27.20	-1.1925E-03	143.2	35.66	143.2	62.52	UL-RL	5.0142E+04	-12.000	100.4	
1.000	1.000	136.0	0.000	0.000	Ug5_2_8_L_0						
62 D	30.51	-1.0318E-03	145.3	50.49	145.3	63.50	UL-RL	2.4005E+04	-12.200	102.0	
1.000	1.000	152.5	0.000	0.000	Ug6_741_743_L_0						
63 D	31.02	-8.7879E-04	147.5	51.38	147.5	64.61	UL-RL	2.4005E+04	-12.400	103.7	
1.000	1.000	155.1	0.000	0.000	Ug6_741_743_L_0						
64 D	31.53	-7.3292E-04	149.6	52.26	149.6	65.66	UL-RL	2.4005E+04	-12.600	105.4	
1.000	1.000	157.6	0.000	0.000	Ug6_741_743_L_0						
65 D	32.63	-5.9356E-04	151.7	56.07	151.7	66.67	UL-RL	2.4005E+04	-12.800	107.1	
1.000	1.000	163.1	0.000	0.000	Ug6_741_743_L_0						
66 D	33.83	-4.6009E-04	153.8	60.43	153.8	67.64	UL-RL	2.4005E+04	-13.000	108.7	
1.000	1.000	169.2	0.000	0.000	Ug6_741_743_L_0						
67 D	35.01	-3.3193E-04	155.9	64.65	155.9	68.86	UL-RL	2.4005E+04	-13.200	110.4	
1.000	1.000	175.1	0.000	0.000	Ug6_741_743_L_0						
68 D	36.05	-2.0848E-04	158.0	68.17	158.0	70.64	UL-RL	2.4005E+04	-13.400	112.1	
1.000	1.000	180.2	0.000	0.000	Ug6_741_743_L_0						
69 D	37.03	-8.9182E-05	160.1	71.43	160.1	72.20	UL-RL	2.4005E+04	-13.600	113.7	
1.000	1.000	185.2	0.000	0.000	Ug6_741_743_L_0						
70 D	37.85	2.6520E-05	162.1	73.84	162.1	73.86	UL-RL	2.4005E+04	-13.800	115.4	
1.000	1.000	189.3	0.000	0.000	Ug6_741_743_L_0						
71 D	38.56	1.3914E-04	164.2	75.71	164.2	75.73	UL-RL	2.4005E+04	-14.000	117.1	
1.000	1.000	192.8	0.000	0.000	Ug6_741_743_L_0						
72 D	39.26	2.4918E-04	166.3	77.56	166.3	77.57	UL-RL	2.4005E+04	-14.200	118.8	
1.000	1.000	196.3	0.000	0.000	Ug6_741_743_L_0						
73 D	39.96	3.5707E-04	168.4	79.38	168.4	79.39	UL-RL	2.4005E+04	-14.400	120.4	
1.000	1.000	199.8	0.000	0.000	Ug6_741_743_L_0						
74 D	40.66	4.6325E-04	170.5	81.18	170.5	81.20	UL-RL	2.4005E+04	-14.600	122.1	
1.000	1.000	203.3	0.000	0.000	Ug6_741_743_L_0						
75 D	41.35	5.6809E-04	172.6	82.97	172.6	82.98	UL-RL	2.4005E+04	-14.800	123.8	
1.000	1.000	206.8	0.000	0.000	Ug6_741_743_L_0						
76 D	42.04	6.7193E-04	174.7	84.75	174.7	84.76	UL-RL	2.4005E+04	-15.000	125.5	
1.000	1.000	210.2	0.000	0.000	Ug6_741_743_L_0						
77 D	42.73	7.7507E-04	176.8	86.52	176.8	86.53	UL-RL	2.4005E+04	-15.200	127.1	
1.000	1.000	213.6	0.000	0.000	Ug6_741_743_L_0						
78 D	43.43	8.7773E-04	178.9	88.34	178.9	88.35	UL-RL	2.4005E+04	-15.400	128.8	
1.000	1.000	217.1	0.000	0.000	Ug6_741_743_L_0						

79 D	44.13	9.8013E-04	181.0	90.16	181.0	90.17	UL-RL	2.4005E+04	-15.60	130.5
1.000	1.000	220.6	0.000	0.000	Ug6_741_743_L_0					
80 D	44.83	1.0824E-03	183.1	91.98	183.1	91.99	UL-RL	2.4005E+04	-15.80	132.1
1.000	1.000	224.1	0.000	0.000	Ug6_741_743_L_0					
81 D	22.76	1.1846E-03	185.2	93.80	185.2	93.81	UL-RL	2.4005E+04	-16.00	133.8
1.000	1.000	227.6	0.000	0.000	Ug6_741_743_L_0					

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION *Build date:Jul 11, 2017*          |
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New Project

STRESS RESULTS FOR GROUP NO. 2

0\_R :  
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 81  
CURRENT TIME IS 6.0000

HARDENING 2D SOIL ELEMENT

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

EL * FACTOR	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
1	0.000	--	--	--	--	--	REMOVED	--	0.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
2	0.000	--	--	--	--	--	REMOVED	--	-0.2000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
3	0.000	--	--	--	--	--	REMOVED	--	-0.4000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
4	0.000	--	--	--	--	--	REMOVED	--	-0.6000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
5	0.000	--	--	--	--	--	REMOVED	--	-0.8000	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	--	-1.200	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
8	0.000	--	--	--	--	--	REMOVED	--	-1.400	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
9	0.000	--	--	--	--	--	REMOVED	--	-1.600	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
10	0.000	--	--	--	--	--	REMOVED	--	-1.800	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
11	0.000	--	--	--	--	--	REMOVED	--	-2.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
12	0.000	--	--	--	--	--	REMOVED	--	-2.200	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
13	0.000	--	--	--	--	--	REMOVED	--	-2.400	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
14	0.000	--	--	--	--	--	REMOVED	--	-2.600	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
15	0.000	--	--	--	--	--	REMOVED	--	-2.800	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
16	0.000	--	--	--	--	--	REMOVED	--	-3.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
17	0.000	--	--	--	--	--	REMOVED	--	-3.200	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
18	0.000	--	--	--	--	--	REMOVED	--	-3.400	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
19	0.000	--	--	--	--	--	REMOVED	--	-3.600	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
20	0.000	--	--	--	--	--	REMOVED	--	-3.800	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
21	0.000	--	--	--	--	--	REMOVED	--	-4.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
22	0.000	--	--	--	--	--	REMOVED	--	-4.200	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
23	0.000	--	--	--	--	--	REMOVED	--	-4.400	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
24 D	1.360	1.5708E-02	0.8364	5.635	46.00	63.25	PASSIVE	0.000	-4.600	1.164	
1.000	1.000	6.799	0.000	0.000	Ug5_2_8_L_0						
25 D	4.079	1.5107E-02	2.509	16.91	48.00	61.85	PASSIVE	0.000	-4.800	3.491	
1.000	1.000	20.40	0.000	0.000	Ug5_2_8_L_0						
26 D	6.799	1.4511E-02	4.182	28.18	50.00	60.52	PASSIVE	0.000	-5.000	5.818	
1.000	1.000	34.00	0.000	0.000	Ug5_2_8_L_0						
27 D	9.519	1.3922E-02	5.855	39.45	52.00	69.31	PASSIVE	0.000	-5.200	8.145	
1.000	1.000	47.59	0.000	0.000	Ug5_2_8_L_0						
28 D	12.24	1.3340E-02	7.527	50.72	54.00	80.86	PASSIVE	0.000	-5.400	10.47	
1.000	1.000	61.19	0.000	0.000	Ug5_2_8_L_0						
29 D	14.96	1.2767E-02	9.200	61.99	56.00	92.41	PASSIVE	0.000	-5.600	12.80	
1.000	1.000	74.79	0.000	0.000	Ug5_2_8_L_0						
30 D	17.68	1.2203E-02	10.87	73.26	58.00	101.8	PASSIVE	0.000	-5.800	15.13	
1.000	1.000	88.39	0.000	0.000	Ug5_2_8_L_0						
31 D	20.40	1.1648E-02	12.55	84.53	60.00	98.74	PASSIVE	0.000	-6.000	17.45	
1.000	1.000	102.0	0.000	0.000	Ug5_2_8_L_0						
32 D	23.12	1.1105E-02	14.22	95.80	62.00	95.80	PASSIVE	0.000	-6.200	19.78	
1.000	1.000	115.6	0.000	0.000	Ug5_2_8_L_0						
33 D	25.84	1.0572E-02	15.89	107.1	64.00	107.1	PASSIVE	0.000	-6.400	22.11	

1.000	1.000	129.2	0.000	0.000	Ug5_2_8_L_0						
34 D	28.56	1.0052E-02	17.56	118.3	66.00	118.3	PASSIVE	0.000	-6.600	24.44	
1.000	1.000	142.8	0.000	0.000	Ug5_2_8_L_0						
35 D	29.60	9.5441E-03	19.24	121.2	68.00	121.2	V-C	8310.	-6.800	26.76	
1.000	1.000	148.0	0.000	0.000	Ug5_2_8_L_0						
36 D	29.27	9.0494E-03	20.91	117.3	70.00	117.3	V-C	8310.	-7.000	29.09	
1.000	1.000	146.4	0.000	0.000	Ug5_2_8_L_0						
37 D	28.98	8.5683E-03	22.58	113.5	72.00	113.5	V-C	8310.	-7.200	31.42	
1.000	1.000	144.9	0.000	0.000	Ug5_2_8_L_0						
38 D	28.71	8.1011E-03	24.25	109.8	74.00	109.8	V-C	8310.	-7.400	33.75	
1.000	1.000	143.6	0.000	0.000	Ug5_2_8_L_0						
39 D	28.48	7.6481E-03	25.93	106.3	76.00	106.3	V-C	8310.	-7.600	36.07	
1.000	1.000	142.4	0.000	0.000	Ug5_2_8_L_0						
40 D	28.28	7.2095E-03	27.60	103.0	78.00	103.0	V-C	8310.	-7.800	38.40	
1.000	1.000	141.4	0.000	0.000	Ug5_2_8_L_0						
41 D	28.11	6.7855E-03	29.27	99.80	80.00	99.80	V-C	8310.	-8.000	40.73	
1.000	1.000	140.5	0.000	0.000	Ug5_2_8_L_0						
42 D	27.97	6.3763E-03	30.95	96.78	82.00	96.78	V-C	8310.	-8.200	43.05	
1.000	1.000	139.8	0.000	0.000	Ug5_2_8_L_0						
43 D	27.86	5.9818E-03	32.62	93.92	84.00	93.92	V-C	8310.	-8.400	45.38	
1.000	1.000	139.3	0.000	0.000	Ug5_2_8_L_0						
44 D	27.79	5.6020E-03	34.29	91.22	86.00	91.22	V-C	8310.	-8.600	47.71	
1.000	1.000	138.9	0.000	0.000	Ug5_2_8_L_0						
45 D	27.74	5.2369E-03	35.96	88.67	88.00	88.67	V-C	8310.	-8.800	50.04	
1.000	1.000	138.7	0.000	0.000	Ug5_2_8_L_0						
46 D	27.73	4.8864E-03	37.64	86.28	90.00	86.28	V-C	8310.	-9.000	52.36	
1.000	1.000	138.6	0.000	0.000	Ug5_2_8_L_0						
47 D	27.75	4.5503E-03	39.31	84.05	92.00	84.05	V-C	8310.	-9.200	54.69	
1.000	1.000	138.7	0.000	0.000	Ug5_2_8_L_0						
48 D	27.80	4.2285E-03	40.98	81.96	94.00	81.96	V-C	8310.	-9.400	57.02	
1.000	1.000	139.0	0.000	0.000	Ug5_2_8_L_0						
49 D	27.87	3.9207E-03	42.65	80.02	96.00	80.02	V-C	8310.	-9.600	59.35	
1.000	1.000	139.4	0.000	0.000	Ug5_2_8_L_0						
50 D	27.98	3.6266E-03	44.33	78.22	98.00	78.22	V-C	8310.	-9.800	61.67	
1.000	1.000	139.9	0.000	0.000	Ug5_2_8_L_0						
51 D	28.11	3.3460E-03	46.00	76.57	100.00	76.57	V-C	8310.	-10.000	64.00	
1.000	1.000	140.6	0.000	0.000	Ug5_2_8_L_0						
52 D	28.27	3.0785E-03	47.67	75.05	102.0	75.05	V-C	8310.	-10.200	66.33	
1.000	1.000	141.4	0.000	0.000	Ug5_2_8_L_0						
53 D	28.46	2.8238E-03	49.35	73.66	104.0	73.66	V-C	8310.	-10.400	68.65	
1.000	1.000	142.3	0.000	0.000	Ug5_2_8_L_0						
54 D	28.67	2.5815E-03	51.02	72.39	106.0	72.39	V-C	8310.	-10.600	70.98	
1.000	1.000	143.4	0.000	0.000	Ug5_2_8_L_0						
55 D	28.91	2.3510E-03	52.69	71.25	108.0	71.25	V-C	8310.	-10.800	73.31	
1.000	1.000	144.6	0.000	0.000	Ug5_2_8_L_0						
56 D	29.17	2.1321E-03	54.36	70.23	110.0	70.23	V-C	8310.	-11.000	75.64	
1.000	1.000	145.9	0.000	0.000	Ug5_2_8_L_0						
57 D	29.46	1.9242E-03	56.04	69.31	112.0	69.31	V-C	8310.	-11.200	77.96	
1.000	1.000	147.3	0.000	0.000	Ug5_2_8_L_0						
58 D	29.76	1.7268E-03	57.71	68.51	114.0	68.51	V-C	8310.	-11.400	80.29	
1.000	1.000	148.8	0.000	0.000	Ug5_2_8_L_0						
59 D	30.08	1.5394E-03	59.38	67.80	116.0	67.80	V-C	8310.	-11.600	82.62	
1.000	1.000	150.4	0.000	0.000	Ug5_2_8_L_0						
60 D	30.43	1.3615E-03	61.05	67.18	118.0	67.18	V-C	8310.	-11.800	84.95	
1.000	1.000	152.1	0.000	0.000	Ug5_2_8_L_0						
61 D	30.79	1.1925E-03	62.73	66.66	120.0	66.66	UL-RL	2.4929E+04	-12.000	87.27	
1.000	1.000	153.9	0.000	0.000	Ug5_2_8_L_0						
62 D	30.63	1.0318E-03	64.20	63.55	121.8	63.60	UL-RL	1.8746E+04	-12.200	89.60	
1.000	1.000	153.1	0.000	0.000	Ug6_741_743_L_0						
63 D	31.06	8.7879E-04	65.67	63.38	123.6	63.47	UL-RL	1.8746E+04	-12.400	91.93	
1.000	1.000	155.3	0.000	0.000	Ug6_741_743_L_0						
64 D	31.50	7.3292E-04	67.15	63.26	125.4	63.40	UL-RL	1.8746E+04	-12.600	94.25	
1.000	1.000	157.5	0.000	0.000	Ug6_741_743_L_0						
65 D	31.66	5.9356E-04	68.62	61.69	127.2	64.12	UL-RL	1.8746E+04	-12.800	96.58	
1.000	1.000	158.3	0.000	0.000	Ug6_741_743_L_0						
66 D	31.77	4.6009E-04	70.09	59.93	129.0	65.01	UL-RL	1.8746E+04	-13.000	98.91	
1.000	1.000	158.8	0.000	0.000	Ug6_741_743_L_0						
67 D	31.90	3.3193E-04	71.56	58.27	130.8	65.89	UL-RL	1.8746E+04	-13.200	101.2	
1.000	1.000	159.5	0.000	0.000	Ug6_741_743_L_0						
68 D	32.06	2.0848E-04	73.04	56.71	132.6	66.78	UL-RL	1.8746E+04	-13.400	103.6	
1.000	1.000	160.3	0.000	0.000	Ug6_741_743_L_0						
69 D	32.23	8.9182E-05	74.51	55.25	134.4	67.67	UL-RL	1.8746E+04	-13.600	105.9	
1.000	1.000	161.1	0.000	0.000	Ug6_741_743_L_0						
70 D	32.41	-2.6520E-05	75.98	53.85	136.2	68.55	UL-RL	1.8746E+04	-13.800	108.2	
1.000	1.000	162.1	0.000	0.000	Ug6_741_743_L_0						
71 D	32.61	-1.3914E-04	77.45	52.52	138.0	69.44	UL-RL	1.8746E+04	-14.000	110.5	
1.000	1.000	163.1	0.000	0.000	Ug6_741_743_L_0						
72 D	32.82	-2.4918E-04	78.93	51.25	139.8	70.33	UL-RL	1.8746E+04	-14.200	112.9	
1.000	1.000	164.1	0.000	0.000	Ug6_741_743_L_0						
73 D	33.04	-3.5707E-04	80.40	50.01	141.6	71.22	UL-RL	1.8746E+04	-14.400	115.2	
1.000	1.000	165.2	0.000	0.000	Ug6_741_743_L_0						
74 D	33.27	-4.6325E-04	81.87	48.82	143.4	72.11	UL-RL	1.8746E+04	-14.600	117.5	
1.000	1.000	166.3	0.000	0.000	Ug6_741_743_L_0						
75 D	33.50	-5.6809E-04	83.35	47.65	145.2	73.00	UL-RL	1.8746E+04	-14.800	119.9	
1.000	1.000	167.5	0.000	0.000	Ug6_741_743_L_0						
76 D	33.74	-6.7193E-04	84.82	46.50	147.0	73.89	UL-RL	1.8746E+04	-15.000	122.2	
1.000	1.000	168.7	0.000	0.000	Ug6_741_743_L_0						
77 D	33.97	-7.7507E-04	86.29	45.36	148.8	74.78	UL-RL	1.8746E+04	-15.200	124.5	
1.000	1.000	169.9	0.000	0.000	Ug6_741_743_L_0						
78 D	34.21	-8.7773E-04	87.76	44.23	150.6	75.67	UL-RL	1.8746E+04	-15.400	126.8	
1.000	1.000	171.1	0.000	0.000	Ug6_741_743_L_0						

79 D	34.46	-9.8013E-04	89.24	43.11	152.4	76.56	UL-RL	1.8746E+04	-15.60	129.2
1.000	1.000	172.3	0.000	0.000	Ug6_741_743_L_0					
80 D	34.70	-1.0824E-03	90.71	41.99	154.2	77.45	UL-RL	1.8746E+04	-15.80	131.5
1.000	1.000	173.5	0.000	0.000	Ug6_741_743_L_0					
81 D	17.47	-1.1846E-03	92.18	40.88	156.0	78.34	UL-RL	1.8746E+04	-16.00	133.8
1.000	1.000	174.7	0.000	0.000	Ug6_741_743_L_0					

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|                PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
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New Project

STRESS RESULTS FOR GROUP NO. 3

WallElement\_33 :  
ELEMENT TYPE 2 NO.OF ELEMENTS. IN THIS GROUP 80  
CURRENT TIME IS 6.0000

WALL2D ELEMENT

EL	TA	TB	MA	MB
1	9.65315E-10	-9.65315E-10	9.60900E-11	-7.71441E-11
2	0.45091	-0.45091	2.10405E-10	9.01817E-02
3	1.3551	-1.3551	-9.01817E-02	0.36119
4	2.7155	-2.7155	-0.36119	0.90428
5	4.5343	-4.5343	-0.90428	1.8111
6	6.8126	-6.8126	-1.8111	3.1737
7	9.5504	-9.5504	-3.1737	5.0837
8	12.754	-12.754	-5.0837	7.6345
9	16.425	-16.425	-7.6345	10.919
10	20.551	-20.551	-10.919	15.030
11	25.141	-25.141	-15.030	20.058
12	30.192	-30.192	-20.058	26.096
13	35.696	-35.696	-26.096	33.235
14	41.658	-41.658	-33.235	41.567
15	48.078	-48.078	-41.567	51.183
16	54.955	-54.955	-51.183	62.174
17	62.284	-62.284	-62.174	74.631
18	70.068	-70.068	-74.631	88.644
19	78.307	-78.307	-88.644	104.31
20	86.997	-86.997	-104.31	121.70
21	96.142	-96.142	-121.70	140.93
22	105.74	-105.74	-140.93	162.08
23	115.79	-115.79	-162.08	185.24
24	124.93	-124.93	-185.24	210.23
25	131.81	-131.81	-210.23	236.59
26	136.42	-136.42	-236.59	263.87
27	138.76	-138.76	-263.87	291.62
28	138.84	-138.84	-291.62	319.39
29	136.64	-136.64	-319.39	346.72
30	132.18	-132.18	-346.72	373.16
31	125.45	-125.45	-373.16	398.25
32	116.46	-116.46	-398.25	421.54
33	105.19	-105.19	-421.54	442.58
34	91.660	-91.660	-442.58	460.91
35	77.535	-77.535	-460.91	476.42
36	64.188	-64.188	-476.42	489.25
37	51.587	-51.587	-489.25	499.57
38	39.704	-39.704	-499.57	507.51
39	28.506	-28.506	-507.51	513.21
40	17.961	-17.961	-513.21	516.81
41	8.0380	-8.0380	-516.81	518.41
42	-1.2946	1.2946	-518.41	518.15
43	-10.071	10.071	-518.15	516.14
44	-18.320	18.320	-516.14	512.48
45	-26.074	26.074	-512.48	507.26
46	-33.364	33.364	-507.26	500.59
47	-40.222	40.222	-500.59	492.54
48	-46.676	46.676	-492.54	483.21
49	-52.757	52.757	-483.21	472.66
50	-58.493	58.493	-472.66	460.96
51	-63.913	63.913	-460.96	448.18
52	-69.042	69.042	-448.18	434.37
53	-73.909	73.909	-434.37	419.59
54	-78.537	78.537	-419.59	403.88
55	-82.951	82.951	-403.88	387.29
56	-87.175	87.175	-387.29	369.85
57	-91.231	91.231	-369.85	351.61
58	-95.140	95.140	-351.61	332.58
59	-98.922	98.922	-332.58	312.80
60	-102.60	102.60	-312.80	292.28
61	-106.18	106.18	-292.28	271.04
62	-106.30	106.30	-271.04	249.78
63	-106.34	106.34	-249.78	228.51
64	-106.32	106.32	-228.51	207.25
65	-105.35	105.35	-207.25	186.18
66	-103.28	103.28	-186.18	165.52
67	-100.17	100.17	-165.52	145.49
68	-96.181	96.181	-145.49	126.25
69	-91.373	91.373	-126.25	107.98

70	-85.934	85.934	-107.98	90.789
71	-79.984	79.984	-90.789	74.792
72	-73.542	73.542	-74.792	60.084
73	-66.619	66.619	-60.084	46.760
74	-59.228	59.228	-46.760	34.915
75	-51.376	51.376	-34.915	24.639
76	-43.070	43.070	-24.639	16.025
77	-34.313	34.313	-16.025	9.1629
78	-25.097	25.097	-9.1629	4.1435
79	-15.424	15.424	-4.1435	1.0588
80	-5.2935	5.2935	-1.0588	4.54259E-12

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ITER      0  RNORM = 0.000      RMNORM= 0.000
           RINORM=0.1031E+07  RIMNOR=0.1456E+08
           RENORM= 1.779      REMNOR=0.1375E-17  RATIO =0.1313E-02  TOLER =0.1000E-03  NOT CONVERGED
           RFMAX = 138.8      RMMAX = 518.4
           RTSMAL=0.1000E-02  RMSMAL=0.1000E-02
           RDT  =0.1031E+07  RDR  =0.1456E+08
           RATIOT=0.1313E-02  RATIO= 0.000
           MAX UN=0.3839E-09  IEQ=   48 NODE    24 DOF   2  X-ROT. F
           MIN UN=-.1794     IEQ=  125 NODE    63 DOF   1  Y-DISPL.F
           NO. OF CONTACT CONSTRAINT VIOLATIONS      0

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ITER      2  RNORM = 0.000      RMNORM= 0.000
           RINORM=0.1031E+07  RIMNOR=0.1456E+08
           RENORM=0.1098E-14  REMNOR=0.2178E-17  RATIO =0.3263E-10  TOLER =0.1000E-03  CONVERGED !
           RFMAX = 138.8      RMMAX = 518.4
           RTSMAL=0.1000E-02  RMSMAL=0.1000E-02
           RDT  =0.1031E+07  RDR  =0.1456E+08
           RATIOT=0.3263E-10  RATIO= 0.000
           MAX UN=0.9912E-08  IEQ=   23 NODE    12 DOF   1  Y-DISPL.F
           MIN UN=-.1305E-07  IEQ=    3 NODE     2 DOF   1  Y-DISPL.F
           NO. OF CONTACT CONSTRAINT VIOLATIONS      0

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|                PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
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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   7   ( AT TIME   7.000   )

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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	3.0167555E-02	-3.1759823E-03
2	2.9532359E-02	-3.1759823E-03
3	2.8897163E-02	-3.1759753E-03
4	2.8261970E-02	-3.1759407E-03
5	2.7626790E-02	-3.1758451E-03
6	2.6991639E-02	-3.1756422E-03
7	2.6356545E-02	-3.1752727E-03
8	2.5721546E-02	-3.1746644E-03
9	2.5086700E-02	-3.1737322E-03
10	2.4452082E-02	-3.1723781E-03
11	2.3817785E-02	-3.1704912E-03
12	2.3183929E-02	-3.1679477E-03
13	2.2550659E-02	-3.1646109E-03
14	2.1918147E-02	-3.1603310E-03
15	2.1286600E-02	-3.1549457E-03
16	2.0656254E-02	-3.1482794E-03
17	2.0027383E-02	-3.1401437E-03
18	1.9400305E-02	-3.1303376E-03
19	1.8775373E-02	-3.1186470E-03
20	1.8152987E-02	-3.1048447E-03
21	1.7533595E-02	-3.0886911E-03
22	1.6917687E-02	-3.0699332E-03
23	1.6305814E-02	-3.0483055E-03
24	1.5698575E-02	-3.0235296E-03
25	1.5096630E-02	-2.9953328E-03
26	1.4500685E-02	-2.9634868E-03
27	1.3911492E-02	-2.9278282E-03
28	1.3329818E-02	-2.8882576E-03
29	1.2756452E-02	-2.8447407E-03
30	1.2192183E-02	-2.7973075E-03
31	1.1637784E-02	-2.7460526E-03
32	1.1094008E-02	-2.6911355E-03
33	1.0561562E-02	-2.6327793E-03
34	1.0041107E-02	-2.5712727E-03
35	9.5332392E-03	-2.5069685E-03
36	9.0384796E-03	-2.4402603E-03
37	8.5572716E-03	-2.3715395E-03
38	8.0899758E-03	-2.3011747E-03
39	7.6368881E-03	-2.2295145E-03
40	7.1982344E-03	-2.1568875E-03
41	6.7741769E-03	-2.0836031E-03
42	6.3648176E-03	-2.0099524E-03
43	5.9702021E-03	-1.9362094E-03
44	5.5903228E-03	-1.8626316E-03
45	5.2251241E-03	-1.7894617E-03
46	4.8744977E-03	-1.7169264E-03
47	4.5382969E-03	-1.6452401E-03
48	4.2163317E-03	-1.5746037E-03
49	3.9083728E-03	-1.5052065E-03
50	3.6141560E-03	-1.4372269E-03
51	3.3333779E-03	-1.3708319E-03
52	3.0657005E-03	-1.3061786E-03
53	2.8107859E-03	-1.2434230E-03
54	2.5682087E-03	-1.1826988E-03
55	2.3375617E-03	-1.1241436E-03
56	2.1183982E-03	-1.0678854E-03
57	1.9102463E-03	-1.0140463E-03
58	1.7126106E-03	-9.6274320E-04
59	1.5249725E-03	-9.1408848E-04
60	1.3467914E-03	-8.6819049E-04
61	1.1775055E-03	-8.2515414E-04
62	1.0165322E-03	-7.8508141E-04
63	8.6327183E-04	-7.4802505E-04
64	7.1712080E-04	-7.1398882E-04
65	5.7747486E-04	-6.8297424E-04
66	4.4373053E-04	-6.5496833E-04
67	3.1528976E-04	-6.2992898E-04
68	1.9156601E-04	-6.0778351E-04
69	7.1990115E-05	-5.8843165E-04
70	-4.3984588E-05	-5.7174888E-04
71	-1.5687769E-04	-5.5758996E-04
72	-2.6717806E-04	-5.4579336E-04
73	-3.7534080E-04	-5.3618312E-04

74	-4.8178441E-04	-5.2856934E-04
75	-5.8688806E-04	-5.2274849E-04
76	-6.9098887E-04	-5.1850369E-04
77	-7.9437927E-04	-5.1560494E-04
78	-8.9730439E-04	-5.1380923E-04
79	-9.995943E-04	-5.1286050E-04
80	-1.1024871E-03	-5.1248954E-04
81	-1.2049801E-03	-5.1241404E-04

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*          |
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NewProject.BaseDesignSection\_28.A1M1R1\_1757  
 Exe Time :24 May 2018 18:25:47

New Project

STRESS RESULTS FOR GROUP NO. 1

0\_L :  
 ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 81  
 CURRENT TIME IS 7.0000

HARDENING 2D SOIL ELEMENT

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

EL * FACTOR	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
1 D	0.000	-3.0168E-02	0.000	0.000	0.000	0.000	PASSIVE	0.000	0.000	0.000	
1.000	1.000	0.000	0.000	0.000	Ug5_2_8_L_0						
2 D	0.4940	-2.9532E-02	2.327	0.7973	2.337	1.690	UL-RL	5.0142E+04	-0.2000	1.673	
1.000	1.000	2.470	0.000	0.000	Ug5_2_8_L_0						
3 D	0.9476	-2.8897E-02	4.655	1.393	4.720	3.281	UL-RL	5.0142E+04	-0.4000	3.345	
1.000	1.000	4.738	0.000	0.000	Ug5_2_8_L_0						
4 D	1.401	-2.8262E-02	6.982	1.988	7.164	4.727	UL-RL	5.0142E+04	-0.6000	5.018	
1.000	1.000	7.006	0.000	0.000	Ug5_2_8_L_0						
5 D	1.855	-2.7627E-02	9.309	2.584	9.652	6.034	UL-RL	5.0142E+04	-0.8000	6.691	
1.000	1.000	9.275	0.000	0.000	Ug5_2_8_L_0						
6 D	2.309	-2.6992E-02	11.64	3.179	12.16	7.235	UL-RL	5.0142E+04	-1.000	8.364	
1.000	1.000	11.54	0.000	0.000	Ug5_2_8_L_0						
7 D	2.762	-2.6357E-02	13.96	3.774	14.67	8.362	UL-RL	5.0142E+04	-1.200	10.04	
1.000	1.000	13.81	0.000	0.000	Ug5_2_8_L_0						
8 D	3.216	-2.5722E-02	16.29	4.369	17.30	9.440	UL-RL	5.0142E+04	-1.400	11.71	
1.000	1.000	16.08	0.000	0.000	Ug5_2_8_L_0						
9 D	3.669	-2.5087E-02	18.62	4.964	19.97	10.49	UL-RL	5.0142E+04	-1.600	13.38	
1.000	1.000	18.35	0.000	0.000	Ug5_2_8_L_0						
10 D	4.123	-2.4452E-02	20.95	5.559	22.40	11.51	UL-RL	5.0142E+04	-1.800	15.05	
1.000	1.000	20.61	0.000	0.000	Ug5_2_8_L_0						
11 D	4.576	-2.3818E-02	23.27	6.153	24.99	12.52	UL-RL	5.0142E+04	-2.000	16.73	
1.000	1.000	22.88	0.000	0.000	Ug5_2_8_L_0						
12 D	5.029	-2.3184E-02	25.60	6.747	27.53	13.53	UL-RL	5.0142E+04	-2.200	18.40	
1.000	1.000	25.15	0.000	0.000	Ug5_2_8_L_0						
13 D	5.483	-2.2551E-02	27.93	7.340	29.90	14.52	UL-RL	5.0142E+04	-2.400	20.07	
1.000	1.000	27.41	0.000	0.000	Ug5_2_8_L_0						
14 D	5.936	-2.1918E-02	30.25	7.933	32.40	15.52	UL-RL	5.0142E+04	-2.600	21.75	
1.000	1.000	29.68	0.000	0.000	Ug5_2_8_L_0						
15 D	6.389	-2.1287E-02	32.58	8.525	34.87	16.51	UL-RL	5.0142E+04	-2.800	23.42	
1.000	1.000	31.94	0.000	0.000	Ug5_2_8_L_0						
16 D	6.841	-2.0656E-02	34.91	9.116	37.33	17.49	UL-RL	5.0142E+04	-3.000	25.09	
1.000	1.000	34.21	0.000	0.000	Ug5_2_8_L_0						
17 D	7.294	-2.0027E-02	37.24	9.707	39.67	18.48	UL-RL	5.0142E+04	-3.200	26.76	
1.000	1.000	36.47	0.000	0.000	Ug5_2_8_L_0						
18 D	7.747	-1.9400E-02	39.56	10.30	42.10	19.47	UL-RL	5.0142E+04	-3.400	28.44	
1.000	1.000	38.73	0.000	0.000	Ug5_2_8_L_0						
19 D	8.199	-1.8775E-02	41.89	10.89	44.53	20.46	UL-RL	5.0142E+04	-3.600	30.11	
1.000	1.000	41.00	0.000	0.000	Ug5_2_8_L_0						
20 D	8.651	-1.8153E-02	44.22	11.48	46.86	21.44	UL-RL	5.0142E+04	-3.800	31.78	
1.000	1.000	43.26	0.000	0.000	Ug5_2_8_L_0						
21 D	9.104	-1.7534E-02	46.55	12.06	49.27	22.43	UL-RL	5.0142E+04	-4.000	33.45	
1.000	1.000	45.52	0.000	0.000	Ug5_2_8_L_0						
22 D	9.556	-1.6918E-02	48.87	12.65	51.68	23.42	UL-RL	5.0142E+04	-4.200	35.13	
1.000	1.000	47.78	0.000	0.000	Ug5_2_8_L_0						
23 D	10.01	-1.6306E-02	51.20	13.24	54.00	24.40	UL-RL	5.0142E+04	-4.400	36.80	
1.000	1.000	50.04	0.000	0.000	Ug5_2_8_L_0						
24 D	10.46	-1.5699E-02	53.53	13.82	56.39	25.39	UL-RL	5.0142E+04	-4.600	38.47	
1.000	1.000	52.30	0.000	0.000	Ug5_2_8_L_0						
25 D	10.91	-1.5097E-02	55.85	14.41	58.78	26.38	UL-RL	5.0142E+04	-4.800	40.15	
1.000	1.000	54.55	0.000	0.000	Ug5_2_8_L_0						
26 D	11.36	-1.4501E-02	58.18	14.99	61.17	27.37	UL-RL	5.0142E+04	-5.000	41.82	
1.000	1.000	56.81	0.000	0.000	Ug5_2_8_L_0						
27 D	11.81	-1.3911E-02	60.51	15.58	63.49	28.36	UL-RL	5.0142E+04	-5.200	43.49	
1.000	1.000	59.07	0.000	0.000	Ug5_2_8_L_0						
28 D	12.27	-1.3330E-02	62.84	16.16	65.87	29.35	UL-RL	5.0142E+04	-5.400	45.16	
1.000	1.000	61.33	0.000	0.000	Ug5_2_8_L_0						
29 D	12.72	-1.2756E-02	65.16	16.75	68.24	30.34	UL-RL	5.0142E+04	-5.600	46.84	
1.000	1.000	63.58	0.000	0.000	Ug5_2_8_L_0						
30 D	13.17	-1.2192E-02	67.49	17.33	70.56	31.34	UL-RL	5.0142E+04	-5.800	48.51	
1.000	1.000	65.84	0.000	0.000	Ug5_2_8_L_0						
31 D	13.62	-1.1638E-02	69.82	17.91	72.93	32.33	UL-RL	5.0142E+04	-6.000	50.18	
1.000	1.000	68.10	0.000	0.000	Ug5_2_8_L_0						
32 D	14.07	-1.1094E-02	72.15	18.50	75.30	33.33	UL-RL	5.0142E+04	-6.200	51.85	
1.000	1.000	70.35	0.000	0.000	Ug5_2_8_L_0						
33 D	14.52	-1.0562E-02	74.47	19.08	77.62	34.32	UL-RL	5.0142E+04	-6.400	53.53	

1.000	1.000	72.61	0.000	0.000	Ug5_2_8_L_0					
34 D	14.97	-1.0041E-02	76.80	19.66	79.98	35.32	UL-RL	5.0142E+04	-6.600	55.20
1.000	1.000	74.86	0.000	0.000	Ug5_2_8_L_0					
35 D	15.42	-9.5332E-03	79.13	20.25	82.35	36.32	UL-RL	5.0142E+04	-6.800	56.87
1.000	1.000	77.12	0.000	0.000	Ug5_2_8_L_0					
36 D	15.88	-9.0385E-03	81.45	20.83	84.71	37.31	UL-RL	5.0142E+04	-7.000	58.55
1.000	1.000	79.38	0.000	0.000	Ug5_2_8_L_0					
37 D	16.33	-8.5573E-03	83.78	21.41	87.02	38.31	UL-RL	5.0142E+04	-7.200	60.22
1.000	1.000	81.63	0.000	0.000	Ug5_2_8_L_0					
38 D	16.78	-8.0900E-03	86.11	22.00	89.38	39.31	UL-RL	5.0142E+04	-7.400	61.89
1.000	1.000	83.89	0.000	0.000	Ug5_2_8_L_0					
39 D	17.23	-7.6369E-03	88.44	22.58	91.74	40.31	UL-RL	5.0142E+04	-7.600	63.56
1.000	1.000	86.14	0.000	0.000	Ug5_2_8_L_0					
40 D	17.68	-7.1982E-03	90.76	23.16	94.06	41.31	UL-RL	5.0142E+04	-7.800	65.24
1.000	1.000	88.40	0.000	0.000	Ug5_2_8_L_0					
41 D	18.13	-6.7742E-03	93.09	23.75	96.41	42.32	UL-RL	5.0142E+04	-8.000	66.91
1.000	1.000	90.66	0.000	0.000	Ug5_2_8_L_0					
42 D	18.58	-6.3648E-03	95.42	24.33	98.77	43.32	UL-RL	5.0142E+04	-8.200	68.58
1.000	1.000	92.91	0.000	0.000	Ug5_2_8_L_0					
43 D	19.03	-5.9702E-03	97.75	24.92	101.1	44.32	UL-RL	5.0142E+04	-8.400	70.25
1.000	1.000	95.17	0.000	0.000	Ug5_2_8_L_0					
44 D	19.49	-5.5903E-03	100.1	25.50	103.4	45.33	UL-RL	5.0142E+04	-8.600	71.93
1.000	1.000	97.43	0.000	0.000	Ug5_2_8_L_0					
45 D	19.94	-5.2251E-03	102.4	26.09	105.8	46.33	UL-RL	5.0142E+04	-8.800	73.60
1.000	1.000	99.69	0.000	0.000	Ug5_2_8_L_0					
46 D	20.39	-4.8745E-03	104.7	26.67	108.1	47.34	UL-RL	5.0142E+04	-9.000	75.27
1.000	1.000	101.9	0.000	0.000	Ug5_2_8_L_0					
47 D	20.84	-4.5383E-03	107.1	27.26	110.5	48.35	UL-RL	5.0142E+04	-9.200	76.95
1.000	1.000	104.2	0.000	0.000	Ug5_2_8_L_0					
48 D	21.29	-4.2163E-03	109.4	27.85	112.8	49.36	UL-RL	5.0142E+04	-9.400	78.62
1.000	1.000	106.5	0.000	0.000	Ug5_2_8_L_0					
49 D	21.74	-3.9084E-03	111.7	28.43	115.2	50.36	UL-RL	5.0142E+04	-9.600	80.29
1.000	1.000	108.7	0.000	0.000	Ug5_2_8_L_0					
50 D	22.20	-3.6142E-03	114.0	29.02	117.5	51.37	UL-RL	5.0142E+04	-9.800	81.96
1.000	1.000	111.0	0.000	0.000	Ug5_2_8_L_0					
51 D	22.65	-3.3334E-03	116.4	29.61	119.8	52.38	UL-RL	5.0142E+04	-10.000	83.64
1.000	1.000	113.2	0.000	0.000	Ug5_2_8_L_0					
52 D	23.10	-3.0657E-03	118.7	30.20	122.2	53.39	UL-RL	5.0142E+04	-10.200	85.31
1.000	1.000	115.5	0.000	0.000	Ug5_2_8_L_0					
53 D	23.55	-2.8108E-03	121.0	30.79	124.5	54.40	UL-RL	5.0142E+04	-10.400	86.98
1.000	1.000	117.8	0.000	0.000	Ug5_2_8_L_0					
54 D	24.01	-2.5682E-03	123.3	31.38	126.8	55.42	UL-RL	5.0142E+04	-10.600	88.65
1.000	1.000	120.0	0.000	0.000	Ug5_2_8_L_0					
55 D	24.46	-2.3376E-03	125.7	31.97	129.2	56.43	UL-RL	5.0142E+04	-10.800	90.33
1.000	1.000	122.3	0.000	0.000	Ug5_2_8_L_0					
56 D	24.91	-2.1184E-03	128.0	32.56	131.5	57.44	UL-RL	5.0142E+04	-11.000	92.00
1.000	1.000	124.6	0.000	0.000	Ug5_2_8_L_0					
57 D	25.36	-1.9102E-03	130.3	33.15	133.8	58.46	UL-RL	5.0142E+04	-11.200	93.67
1.000	1.000	126.8	0.000	0.000	Ug5_2_8_L_0					
58 D	25.82	-1.7126E-03	132.7	33.74	136.2	59.47	UL-RL	5.0142E+04	-11.400	95.35
1.000	1.000	129.1	0.000	0.000	Ug5_2_8_L_0					
59 D	26.27	-1.5250E-03	135.0	34.33	138.5	60.48	UL-RL	5.0142E+04	-11.600	97.02
1.000	1.000	131.4	0.000	0.000	Ug5_2_8_L_0					
60 D	26.72	-1.3468E-03	137.3	34.93	140.8	61.50	UL-RL	5.0142E+04	-11.800	98.69
1.000	1.000	133.6	0.000	0.000	Ug5_2_8_L_0					
61 D	27.18	-1.1775E-03	139.6	35.52	143.2	62.52	UL-RL	5.0142E+04	-12.000	100.4
1.000	1.000	135.9	0.000	0.000	Ug5_2_8_L_0					
62 D	30.40	-1.0165E-03	141.8	49.96	145.3	63.50	UL-RL	2.4005E+04	-12.200	102.0
1.000	1.000	152.0	0.000	0.000	Ug6_741_743_L_0					
63 D	30.91	-8.6327E-04	143.9	50.86	147.5	64.61	UL-RL	2.4005E+04	-12.400	103.7
1.000	1.000	154.6	0.000	0.000	Ug6_741_743_L_0					
64 D	31.43	-7.1712E-04	146.0	51.75	149.6	65.66	UL-RL	2.4005E+04	-12.600	105.4
1.000	1.000	157.1	0.000	0.000	Ug6_741_743_L_0					
65 D	32.52	-5.7747E-04	148.1	55.57	151.7	66.67	UL-RL	2.4005E+04	-12.800	107.1
1.000	1.000	162.6	0.000	0.000	Ug6_741_743_L_0					
66 D	33.73	-4.4373E-04	150.3	59.95	153.8	67.64	UL-RL	2.4005E+04	-13.000	108.7
1.000	1.000	168.7	0.000	0.000	Ug6_741_743_L_0					
67 D	34.92	-3.1529E-04	152.4	64.18	155.9	68.86	UL-RL	2.4005E+04	-13.200	110.4
1.000	1.000	174.6	0.000	0.000	Ug6_741_743_L_0					
68 D	35.96	-1.9157E-04	154.5	67.72	158.0	70.64	UL-RL	2.4005E+04	-13.400	112.1
1.000	1.000	179.8	0.000	0.000	Ug6_741_743_L_0					
69 D	36.95	-7.1990E-05	156.7	70.99	160.1	72.20	UL-RL	2.4005E+04	-13.600	113.7
1.000	1.000	184.7	0.000	0.000	Ug6_741_743_L_0					
70 D	37.77	4.3985E-05	158.8	73.41	162.1	73.86	UL-RL	2.4005E+04	-13.800	115.4
1.000	1.000	188.8	0.000	0.000	Ug6_741_743_L_0					
71 D	38.48	1.5688E-04	160.9	75.30	164.2	75.73	UL-RL	2.4005E+04	-14.000	117.1
1.000	1.000	192.4	0.000	0.000	Ug6_741_743_L_0					
72 D	39.18	2.6718E-04	163.0	77.16	166.3	77.57	UL-RL	2.4005E+04	-14.200	118.8
1.000	1.000	195.9	0.000	0.000	Ug6_741_743_L_0					
73 D	39.89	3.7534E-04	165.2	79.00	168.4	79.39	UL-RL	2.4005E+04	-14.400	120.4
1.000	1.000	199.4	0.000	0.000	Ug6_741_743_L_0					
74 D	40.58	4.8178E-04	167.3	80.81	170.5	81.20	UL-RL	2.4005E+04	-14.600	122.1
1.000	1.000	202.9	0.000	0.000	Ug6_741_743_L_0					
75 D	41.28	5.8689E-04	169.4	82.62	172.6	82.98	UL-RL	2.4005E+04	-14.800	123.8
1.000	1.000	206.4	0.000	0.000	Ug6_741_743_L_0					
76 D	41.97	6.9099E-04	171.5	84.41	174.7	84.76	UL-RL	2.4005E+04	-15.000	125.5
1.000	1.000	209.9	0.000	0.000	Ug6_741_743_L_0					
77 D	42.66	7.9438E-04	173.7	86.19	176.8	86.53	UL-RL	2.4005E+04	-15.200	127.1
1.000	1.000	213.3	0.000	0.000	Ug6_741_743_L_0					
78 D	43.37	8.9730E-04	175.8	88.03	178.9	88.35	UL-RL	2.4005E+04	-15.400	128.8
1.000	1.000	216.8	0.000	0.000	Ug6_741_743_L_0					

79 D	44.07	9.9996E-04	177.9	89.86	181.0	90.17	UL-RL	2.4005E+04	-15.60	130.5
1.000	1.000	220.3	0.000	0.000	Ug6_741_743_L_0					
80 D	44.77	1.1025E-03	180.1	91.70	183.1	91.99	UL-RL	2.4005E+04	-15.80	132.1
1.000	1.000	223.8	0.000	0.000	Ug6_741_743_L_0					
81 D	22.74	1.2050E-03	182.2	93.53	185.2	93.81	UL-RL	2.4005E+04	-16.00	133.8
1.000	1.000	227.4	0.000	0.000	Ug6_741_743_L_0					

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*          |
|                                                                                                                                            |
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|                                                                                                                                            |
|          NewProject.BaseDesignSection_28.A1M1R1_1757          |
|          Exe Time :24 May 2018          18:25:47          |
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New Project

STRESS RESULTS FOR GROUP NO. 2

0\_R :  
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 81  
CURRENT TIME IS 7.0000

HARDENING 2D SOIL ELEMENT

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

EL * FACTOR	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
1	0.000	--	--	--	--	--	REMOVED	--	0.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
2	0.000	--	--	--	--	--	REMOVED	--	-0.2000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
3	0.000	--	--	--	--	--	REMOVED	--	-0.4000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
4	0.000	--	--	--	--	--	REMOVED	--	-0.6000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
5	0.000	--	--	--	--	--	REMOVED	--	-0.8000	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	--	-1.200	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
8	0.000	--	--	--	--	--	REMOVED	--	-1.400	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
9	0.000	--	--	--	--	--	REMOVED	--	-1.600	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
10	0.000	--	--	--	--	--	REMOVED	--	-1.800	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
11	0.000	--	--	--	--	--	REMOVED	--	-2.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
12	0.000	--	--	--	--	--	REMOVED	--	-2.200	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
13	0.000	--	--	--	--	--	REMOVED	--	-2.400	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
14	0.000	--	--	--	--	--	REMOVED	--	-2.600	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
15	0.000	--	--	--	--	--	REMOVED	--	-2.800	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
16	0.000	--	--	--	--	--	REMOVED	--	-3.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
17	0.000	--	--	--	--	--	REMOVED	--	-3.200	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
18	0.000	--	--	--	--	--	REMOVED	--	-3.400	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
19	0.000	--	--	--	--	--	REMOVED	--	-3.600	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
20	0.000	--	--	--	--	--	REMOVED	--	-3.800	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
21	0.000	--	--	--	--	--	REMOVED	--	-4.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
22	0.000	--	--	--	--	--	REMOVED	--	-4.200	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
23	0.000	--	--	--	--	--	REMOVED	--	-4.400	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
24 D	1.311	1.5699E-02	0.8364	5.389	46.00	63.25	UL-RL	2.4929E+04	-4.600	1.164	
1.000	1.000	6.553	0.000	0.000	Ug5_2_8_L_0						
25 D	4.030	1.5097E-02	2.509	16.66	48.00	61.85	UL-RL	2.4929E+04	-4.800	3.491	
1.000	1.000	20.15	0.000	0.000	Ug5_2_8_L_0						
26 D	6.749	1.4501E-02	4.182	27.92	50.00	60.52	UL-RL	2.4929E+04	-5.000	5.818	
1.000	1.000	33.74	0.000	0.000	Ug5_2_8_L_0						
27 D	9.468	1.3911E-02	5.855	39.19	52.00	69.31	UL-RL	2.4929E+04	-5.200	8.145	
1.000	1.000	47.34	0.000	0.000	Ug5_2_8_L_0						
28 D	12.19	1.3330E-02	7.527	50.46	54.00	80.86	UL-RL	2.4929E+04	-5.400	10.47	
1.000	1.000	60.93	0.000	0.000	Ug5_2_8_L_0						
29 D	14.91	1.2756E-02	9.200	61.73	56.00	92.41	UL-RL	2.4929E+04	-5.600	12.80	
1.000	1.000	74.53	0.000	0.000	Ug5_2_8_L_0						
30 D	17.63	1.2192E-02	10.87	73.00	58.00	101.8	UL-RL	2.4929E+04	-5.800	15.13	
1.000	1.000	88.13	0.000	0.000	Ug5_2_8_L_0						
31 D	20.34	1.1638E-02	12.55	84.27	60.00	98.74	UL-RL	2.4929E+04	-6.000	17.45	
1.000	1.000	101.7	0.000	0.000	Ug5_2_8_L_0						
32 D	23.06	1.1094E-02	14.22	95.54	62.00	95.80	UL-RL	2.4929E+04	-6.200	19.78	
1.000	1.000	115.3	0.000	0.000	Ug5_2_8_L_0						
33 D	25.78	1.0562E-02	15.89	106.8	64.00	107.1	UL-RL	2.4929E+04	-6.400	22.11	

1.000	1.000	128.9	0.000	0.000	Ug5_2_8_L_0					
34 D	28.50	1.0041E-02	17.56	118.1	66.00	118.3	UL-RL	2.4929E+04	-6.600	24.44
1.000	1.000	142.5	0.000	0.000	Ug5_2_8_L_0					
35 D	29.55	9.5332E-03	19.24	121.0	68.00	121.2	UL-RL	2.4929E+04	-6.800	26.76
1.000	1.000	147.7	0.000	0.000	Ug5_2_8_L_0					
36 D	29.22	9.0385E-03	20.91	117.0	70.00	117.3	UL-RL	2.4929E+04	-7.000	29.09
1.000	1.000	146.1	0.000	0.000	Ug5_2_8_L_0					
37 D	28.92	8.5573E-03	22.58	113.2	72.00	113.5	UL-RL	2.4929E+04	-7.200	31.42
1.000	1.000	144.6	0.000	0.000	Ug5_2_8_L_0					
38 D	28.66	8.0900E-03	24.25	109.5	74.00	109.8	UL-RL	2.4929E+04	-7.400	33.75
1.000	1.000	143.3	0.000	0.000	Ug5_2_8_L_0					
39 D	28.42	7.6369E-03	25.93	106.0	76.00	106.3	UL-RL	2.4929E+04	-7.600	36.07
1.000	1.000	142.1	0.000	0.000	Ug5_2_8_L_0					
40 D	28.22	7.1982E-03	27.60	102.7	78.00	103.0	UL-RL	2.4929E+04	-7.800	38.40
1.000	1.000	141.1	0.000	0.000	Ug5_2_8_L_0					
41 D	28.05	6.7742E-03	29.27	99.52	80.00	99.80	UL-RL	2.4929E+04	-8.000	40.73
1.000	1.000	140.2	0.000	0.000	Ug5_2_8_L_0					
42 D	27.91	6.3648E-03	30.95	96.50	82.00	96.78	UL-RL	2.4929E+04	-8.200	43.05
1.000	1.000	139.6	0.000	0.000	Ug5_2_8_L_0					
43 D	27.80	5.9702E-03	32.62	93.63	84.00	93.92	UL-RL	2.4929E+04	-8.400	45.38
1.000	1.000	139.0	0.000	0.000	Ug5_2_8_L_0					
44 D	27.73	5.5903E-03	34.29	90.93	86.00	91.22	UL-RL	2.4929E+04	-8.600	47.71
1.000	1.000	138.6	0.000	0.000	Ug5_2_8_L_0					
45 D	27.68	5.2251E-03	35.96	88.38	88.00	88.67	UL-RL	2.4929E+04	-8.800	50.04
1.000	1.000	138.4	0.000	0.000	Ug5_2_8_L_0					
46 D	27.67	4.8745E-03	37.64	85.99	90.00	86.28	UL-RL	2.4929E+04	-9.000	52.36
1.000	1.000	138.4	0.000	0.000	Ug5_2_8_L_0					
47 D	27.69	4.5383E-03	39.31	83.75	92.00	84.05	UL-RL	2.4929E+04	-9.200	54.69
1.000	1.000	138.4	0.000	0.000	Ug5_2_8_L_0					
48 D	27.73	4.2163E-03	40.98	81.66	94.00	81.96	UL-RL	2.4929E+04	-9.400	57.02
1.000	1.000	138.7	0.000	0.000	Ug5_2_8_L_0					
49 D	27.81	3.9084E-03	42.65	79.71	96.00	80.02	UL-RL	2.4929E+04	-9.600	59.35
1.000	1.000	139.1	0.000	0.000	Ug5_2_8_L_0					
50 D	27.92	3.6142E-03	44.33	77.91	98.00	78.22	UL-RL	2.4929E+04	-9.800	61.67
1.000	1.000	139.6	0.000	0.000	Ug5_2_8_L_0					
51 D	28.05	3.3334E-03	46.00	76.25	100.00	76.57	UL-RL	2.4929E+04	-10.000	64.00
1.000	1.000	140.3	0.000	0.000	Ug5_2_8_L_0					
52 D	28.21	3.0657E-03	47.67	74.73	102.0	75.05	UL-RL	2.4929E+04	-10.200	66.33
1.000	1.000	141.1	0.000	0.000	Ug5_2_8_L_0					
53 D	28.40	2.8108E-03	49.35	73.33	104.0	73.66	UL-RL	2.4929E+04	-10.400	68.65
1.000	1.000	142.0	0.000	0.000	Ug5_2_8_L_0					
54 D	28.61	2.5682E-03	51.02	72.06	106.0	72.39	UL-RL	2.4929E+04	-10.600	70.98
1.000	1.000	143.0	0.000	0.000	Ug5_2_8_L_0					
55 D	28.84	2.3376E-03	52.69	70.92	108.0	71.25	UL-RL	2.4929E+04	-10.800	73.31
1.000	1.000	144.2	0.000	0.000	Ug5_2_8_L_0					
56 D	29.10	2.1184E-03	54.36	69.89	110.0	70.23	UL-RL	2.4929E+04	-11.000	75.64
1.000	1.000	145.5	0.000	0.000	Ug5_2_8_L_0					
57 D	29.39	1.9102E-03	56.04	68.97	112.0	69.31	UL-RL	2.4929E+04	-11.200	77.96
1.000	1.000	146.9	0.000	0.000	Ug5_2_8_L_0					
58 D	29.69	1.7126E-03	57.71	68.15	114.0	68.51	UL-RL	2.4929E+04	-11.400	80.29
1.000	1.000	148.4	0.000	0.000	Ug5_2_8_L_0					
59 D	30.01	1.5250E-03	59.38	67.44	116.0	67.80	UL-RL	2.4929E+04	-11.600	82.62
1.000	1.000	150.1	0.000	0.000	Ug5_2_8_L_0					
60 D	30.35	1.3468E-03	61.05	66.82	118.0	67.18	UL-RL	2.4929E+04	-11.800	84.95
1.000	1.000	151.8	0.000	0.000	Ug5_2_8_L_0					
61 D	30.71	1.1775E-03	62.73	66.28	120.0	66.66	UL-RL	2.4929E+04	-12.000	87.27
1.000	1.000	153.6	0.000	0.000	Ug5_2_8_L_0					
62 D	30.57	1.0165E-03	64.20	63.26	121.8	63.60	UL-RL	1.8746E+04	-12.200	89.60
1.000	1.000	152.9	0.000	0.000	Ug6_741_743_L_0					
63 D	31.00	8.6327E-04	65.67	63.09	123.6	63.47	UL-RL	1.8746E+04	-12.400	91.93
1.000	1.000	155.0	0.000	0.000	Ug6_741_743_L_0					
64 D	31.44	7.1712E-04	67.15	62.97	125.4	63.40	UL-RL	1.8746E+04	-12.600	94.25
1.000	1.000	157.2	0.000	0.000	Ug6_741_743_L_0					
65 D	31.59	5.7747E-04	68.62	61.39	127.2	64.12	UL-RL	1.8746E+04	-12.800	96.58
1.000	1.000	158.0	0.000	0.000	Ug6_741_743_L_0					
66 D	31.71	4.4373E-04	70.09	59.62	129.0	65.01	UL-RL	1.8746E+04	-13.000	98.91
1.000	1.000	158.5	0.000	0.000	Ug6_741_743_L_0					
67 D	31.84	3.1529E-04	71.56	57.96	130.8	65.89	UL-RL	1.8746E+04	-13.200	101.2
1.000	1.000	159.2	0.000	0.000	Ug6_741_743_L_0					
68 D	31.99	1.9157E-04	73.04	56.40	132.6	66.78	UL-RL	1.8746E+04	-13.400	103.6
1.000	1.000	160.0	0.000	0.000	Ug6_741_743_L_0					
69 D	32.16	7.1990E-05	74.51	54.92	134.4	67.67	UL-RL	1.8746E+04	-13.600	105.9
1.000	1.000	160.8	0.000	0.000	Ug6_741_743_L_0					
70 D	32.35	-4.3985E-05	75.98	53.52	136.2	68.55	UL-RL	1.8746E+04	-13.800	108.2
1.000	1.000	161.7	0.000	0.000	Ug6_741_743_L_0					
71 D	32.55	-1.5688E-04	77.45	52.19	138.0	69.44	UL-RL	1.8746E+04	-14.000	110.5
1.000	1.000	162.7	0.000	0.000	Ug6_741_743_L_0					
72 D	32.76	-2.6718E-04	78.93	50.91	139.8	70.33	UL-RL	1.8746E+04	-14.200	112.9
1.000	1.000	163.8	0.000	0.000	Ug6_741_743_L_0					
73 D	32.97	-3.7534E-04	80.40	49.67	141.6	71.22	UL-RL	1.8746E+04	-14.400	115.2
1.000	1.000	164.9	0.000	0.000	Ug6_741_743_L_0					
74 D	33.20	-4.8178E-04	81.87	48.47	143.4	72.11	UL-RL	1.8746E+04	-14.600	117.5
1.000	1.000	166.0	0.000	0.000	Ug6_741_743_L_0					
75 D	33.43	-5.8689E-04	83.35	47.29	145.2	73.00	UL-RL	1.8746E+04	-14.800	119.9
1.000	1.000	167.1	0.000	0.000	Ug6_741_743_L_0					
76 D	33.66	-6.9099E-04	84.82	46.14	147.0	73.89	UL-RL	1.8746E+04	-15.000	122.2
1.000	1.000	168.3	0.000	0.000	Ug6_741_743_L_0					
77 D	33.90	-7.9438E-04	86.29	45.00	148.8	74.78	UL-RL	1.8746E+04	-15.200	124.5
1.000	1.000	169.5	0.000	0.000	Ug6_741_743_L_0					
78 D	34.14	-8.9730E-04	87.76	43.87	150.6	75.67	UL-RL	1.8746E+04	-15.400	126.8
1.000	1.000	170.7	0.000	0.000	Ug6_741_743_L_0					

79 D	34.38	-9.9996E-04	89.24	42.74	152.4	76.56	UL-RL	1.8746E+04	-15.60	129.2
1.000	1.000	171.9	0.000	0.000	Ug6_741_743_L_0					
80 D	34.62	-1.1025E-03	90.71	41.62	154.2	77.45	UL-RL	1.8746E+04	-15.80	131.5
1.000	1.000	173.1	0.000	0.000	Ug6_741_743_L_0					
81 D	17.43	-1.2050E-03	92.18	40.49	156.0	78.34	UL-RL	1.8746E+04	-16.00	133.8
1.000	1.000	174.3	0.000	0.000	Ug6_741_743_L_0					



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|                PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
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```

New Project

STRESS RESULTS FOR GROUP NO. 3

WallElement\_33 :  
ELEMENT TYPE 2 NO.OF ELEMENTS. IN THIS GROUP 80  
CURRENT TIME IS 7.0000

WALL2D ELEMENT

EL	TA	TB	MA	MB
1	-6.16336E-09	6.16336E-09	-6.16744E-10	-7.89996E-10
2	0.49400	-0.49400	8.62317E-10	9.88004E-02
3	1.4417	-1.4417	-9.88004E-02	0.38713
4	2.8429	-2.8429	-0.38713	0.95572
5	4.6979	-4.6979	-0.95572	1.8953
6	7.0064	-7.0064	-1.8953	3.2966
7	9.7686	-9.7686	-3.2966	5.2503
8	12.984	-12.984	-5.2503	7.8471
9	16.653	-16.653	-7.8471	11.178
10	20.776	-20.776	-11.178	15.333
11	25.352	-25.352	-15.333	20.404
12	30.382	-30.382	-20.404	26.480
13	35.864	-35.864	-26.480	33.653
14	41.800	-41.800	-33.653	42.013
15	48.188	-48.188	-42.013	51.650
16	55.030	-55.030	-51.650	62.656
17	62.324	-62.324	-62.656	75.121
18	70.071	-70.071	-75.121	89.135
19	78.270	-78.270	-89.135	104.79
20	86.921	-86.921	-104.79	122.17
21	96.025	-96.025	-122.17	141.38
22	105.58	-105.58	-141.38	162.49
23	115.59	-115.59	-162.49	185.61
24	124.74	-124.74	-185.61	210.56
25	131.62	-131.62	-210.56	236.88
26	136.23	-136.23	-236.88	264.13
27	138.58	-138.58	-264.13	291.84
28	138.66	-138.66	-291.84	319.58
29	136.47	-136.47	-319.58	346.87
30	132.01	-132.01	-346.87	373.27
31	125.28	-125.28	-373.27	398.33
32	116.29	-116.29	-398.33	421.59
33	105.03	-105.03	-421.59	442.59
34	91.501	-91.501	-442.59	460.89
35	77.379	-77.379	-460.89	476.37
36	64.035	-64.035	-476.37	489.18
37	51.438	-51.438	-489.18	499.46
38	39.558	-39.558	-499.46	507.37
39	28.364	-28.364	-507.37	513.05
40	17.824	-17.824	-513.05	516.61
41	7.9058	-7.9058	-516.61	518.19
42	-1.4216	1.4216	-518.19	517.91
43	-10.190	10.190	-517.91	515.87
44	-18.432	18.432	-515.87	512.18
45	-26.178	26.178	-512.18	506.95
46	-33.459	33.459	-506.95	500.26
47	-40.305	40.305	-500.26	492.20
48	-46.747	46.747	-492.20	482.85
49	-52.814	52.814	-482.85	472.28
50	-58.534	58.534	-472.28	460.58
51	-63.935	63.935	-460.58	447.79
52	-69.044	69.044	-447.79	433.98
53	-73.887	73.887	-433.98	419.20
54	-78.490	78.490	-419.20	403.51
55	-82.876	82.876	-403.51	386.93
56	-87.068	87.068	-386.93	369.52
57	-91.090	91.090	-369.52	351.30
58	-94.961	94.961	-351.30	332.31
59	-98.702	98.702	-332.31	312.57
60	-102.33	102.33	-312.57	292.10
61	-105.87	105.87	-292.10	270.93
62	-106.04	106.04	-270.93	249.72
63	-106.13	106.13	-249.72	228.49
64	-106.15	106.15	-228.49	207.27
65	-105.22	105.22	-207.27	186.22
66	-103.19	103.19	-186.22	165.59
67	-100.11	100.11	-165.59	145.56
68	-96.145	96.145	-145.56	126.33
69	-91.361	91.361	-126.33	108.06

70	-85.943	85.943	-108.06	90.873
71	-80.011	80.011	-90.873	74.871
72	-73.583	73.583	-74.871	60.155
73	-66.670	66.670	-60.155	46.821
74	-59.285	59.285	-46.821	34.964
75	-51.435	51.435	-34.964	24.677
76	-43.126	43.126	-24.677	16.051
77	-34.363	34.363	-16.051	9.1787
78	-25.138	25.138	-9.1787	4.1511
79	-15.451	15.451	-4.1511	1.0608
80	-5.3040	5.3040	-1.0608	-1.77471E-11

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+-----+
|          PARATIEPLUS(TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION *Build date:Jul 11, 2017*          |
|                                                                                                                                            |
|                                                                                                                                            |
|                                                                                                                                            |
|          NewProject.BaseDesignSection_28.A1M1R1_1757          |
|          Exe Time :24 May 2018          18:25:47          |
+-----+
```

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

S U M M A R Y

STEP		NO. OF ITERATIONS
1	CONVERGENCE :YES	2
2	CONVERGENCE :YES	5
3	CONVERGENCE :YES	5
4	CONVERGENCE :YES	5
5	CONVERGENCE :YES	6
6	CONVERGENCE :YES	6
7	CONVERGENCE :YES	2

END OF PROCESS FOR PROBLEM

New Project

NONLINEAR SOLUTION CPU TIME .... 0.07 [sec]

DATABASE CREATION CPU TIME..... 0.28 [sec]

# Design Assumption : A2+M2+R1 - File di Paratie - File di output (.out)

```
+-----+
|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*          |
|                                                                                                                                            |
|                                                                                                                                            |
|          NewProject.BaseDesignSection_28.A2M2R1_1787                                                                                       |
|          Exe Time :24 May 2018          18:25:48                                                                                           |
+-----+
```

```
*****
*
*  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  2017.1      *Build date:Jul 11, 2017*
*
*
*  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_28.A2M2R1_1787
STARTING
ACCEPTED <FILE,GENW                                     >
ACCEPTED <FILE,PLOTTER,BINARY                           >
ACCEPTED <SOLVE TOTAL_STRESS                           >
ACCEPTED <PARAM ITEMAX 40                               >
ACCEPTED <CONTROL HINGES 0 0.0001 0.001                 >
```

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

```
PRELIMINARY OPERATIONS CPU TIME      0.00 [sec]
```

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+-----+
|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*          |
|                                                                                                                                           |
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|                                                                                                                                           |
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|                                                                                                                                           |
|                                                                                                                                           |
+-----+

```

INPUT FILE HAS BEEN GENERATED BY WALGEN PROGRAM

New Project

```

NO. OF NODAL POINTS (NUMNP) ..... 81
NO. OF COORDINATES (NCOORD)..... 2
NO. OF NODE DOFS (NDOF)..... 2
NO. OF EQUATIONS (NEQ)..... 162
NO. OF CONSTRAINTS CARDS (NVINC)..... 0
NO. OF ELEMENT GROUPS (NEG)..... 3
NO. OF SOLUTION STEPS (NSTE)..... 7
NO. OF ELEMENT SETS ATTACHED TO SLAVE NODES ... 0
NO. OF RECORD FROM WALGEN ..... 102
NO. OF LONG NAMES (LASTNAME) ..... 22
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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+-----+
|                PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                                  |
|                NewProject.BaseDesignSection_28.A2M2R1_1787  |
|                Exe Time :24 May 2018  18:25:48  |
+-----+
```

P R E P R O C E S S O R     D A T A

N O .   O F   C O M M A N D S     102

```
1 : UNIT m kN
2 : TITLE New Project
3 : DELTA 0.2
4 : option param itemax 40
5 : option control hinges 0 0.0001 0.001
6 : WALL LeftWall_32 0 -16 0 1
7 : SOIL 0_L LeftWall_32 -16 0 1 0
8 : SOIL 0_R LeftWall_32 -16 0 2 180
9 : LDATA Ug5_2_8_L_0 0 LeftWall_32
10 : ATREST 0.5 0.5 1
11 : WEIGHT 19 10 10
12 : PERMEABILITY 0.0001
13 : RESISTANCE 0 37
14 : YOUNG 5E+04 1.5E+05
15 : ENDL
16 : LDATA Ug6_741_743_L_0 -12 LeftWall_32
17 : ATREST 0.5 0.5 1
18 : WEIGHT 18.5 9 10
19 : PERMEABILITY 0.0001
20 : RESISTANCE 5 26
21 : YOUNG 3E+04 9E+04
22 : ENDL
23 : MATERIAL S355_114 2.1E+08
24 : MATERIAL C2530_104 3.148E+07
25 : BEAM WallElement_33 LeftWall_32 -16 0 C2530_104 0.8121 00 00 0
26 : STRIP LeftWall_32 1 6 1 11.75 0 6.5 45
27 : STEP Stage1_31
28 : CHANGE Ug5_2_8_L_0 U-FRICT=31.08 LeftWall_32
29 : CHANGE Ug5_2_8_L_0 D-FRICT=31.08 LeftWall_32
30 : CHANGE Ug5_2_8_L_0 U-KA=0.319 LeftWall_32
31 : CHANGE Ug5_2_8_L_0 U-KP=4.578 LeftWall_32
32 : CHANGE Ug5_2_8_L_0 D-KA=0.319 LeftWall_32
33 : CHANGE Ug5_2_8_L_0 D-KP=4.578 LeftWall_32
34 : CHANGE Ug6_741_743_L_0 U-FRICT=21.32 LeftWall_32
35 : CHANGE Ug6_741_743_L_0 D-FRICT=21.32 LeftWall_32
36 : CHANGE Ug6_741_743_L_0 U-KA=0.467 LeftWall_32
37 : CHANGE Ug6_741_743_L_0 U-KP=2.649 LeftWall_32
38 : CHANGE Ug6_741_743_L_0 D-KA=0.467 LeftWall_32
39 : CHANGE Ug6_741_743_L_0 D-KP=2.649 LeftWall_32
40 : CHANGE Ug5_2_8_L_0 U-COHE=0 LeftWall_32
41 : CHANGE Ug5_2_8_L_0 D-COHE=0 LeftWall_32
42 : CHANGE Ug6_741_743_L_0 U-COHE=4 LeftWall_32
43 : CHANGE Ug6_741_743_L_0 D-COHE=4 LeftWall_32
44 : SETWALL LeftWall_32
45 : GEOM 0 0
46 : WATER 0 0 -16 0 0
47 : ADD WallElement_33
48 : ENDSTEP
49 : STEP Stage2_158
50 : CHANGE Ug5_2_8_L_0 D-FRICT=31.08 LeftWall_32
51 : CHANGE Ug6_741_743_L_0 D-FRICT=21.32 LeftWall_32
52 : CHANGE Ug5_2_8_L_0 D-COHE=0 LeftWall_32
53 : CHANGE Ug6_741_743_L_0 D-COHE=4 LeftWall_32
54 : SETWALL LeftWall_32
55 : GEOM 0 -1
56 : WATER 0 1 -16 0 0
57 : ENDSTEP
58 : STEP Stage3_255
59 : CHANGE Ug5_2_8_L_0 D-FRICT=31.08 LeftWall_32
60 : CHANGE Ug6_741_743_L_0 D-FRICT=21.32 LeftWall_32
61 : CHANGE Ug5_2_8_L_0 D-COHE=0 LeftWall_32
62 : CHANGE Ug6_741_743_L_0 D-COHE=4 LeftWall_32
63 : SETWALL LeftWall_32
64 : GEOM 0 -2
65 : WATER 0 2 -16 0 0
66 : ENDSTEP
67 : STEP Stage4_352
68 : CHANGE Ug5_2_8_L_0 D-FRICT=31.08 LeftWall_32
69 : CHANGE Ug6_741_743_L_0 D-FRICT=21.32 LeftWall_32
70 : CHANGE Ug5_2_8_L_0 D-COHE=0 LeftWall_32
71 : CHANGE Ug6_741_743_L_0 D-COHE=4 LeftWall_32
72 : SETWALL LeftWall_32
73 : GEOM 0 -3
74 : WATER 0 3 -16 0 0
75 : ENDSTEP
76 : STEP Stage5_449
77 : CHANGE Ug5_2_8_L_0 D-FRICT=31.08 LeftWall_32
78 : CHANGE Ug6_741_743_L_0 D-FRICT=21.32 LeftWall_32
```

```
79 : CHANGE Ug5_2_8_L_0 D-COHE=0 LeftWall_32
80 : CHANGE Ug6_741_743_L_0 D-COHE=4 LeftWall_32
81 : SETWALL LeftWall_32
82 : GEOM 0 -4
83 : WATER 0 4 -16 0 0
84 : ENDSTEP
85 : STEP Stage6_546
86 : CHANGE Ug5_2_8_L_0 D-FRICT=31.08 LeftWall_32
87 : CHANGE Ug6_741_743_L_0 D-FRICT=21.32 LeftWall_32
88 : CHANGE Ug5_2_8_L_0 D-COHE=0 LeftWall_32
89 : CHANGE Ug6_741_743_L_0 D-COHE=4 LeftWall_32
90 : SETWALL LeftWall_32
91 : GEOM 0 -4.5
92 : WATER 0 4.5 -16 0 0
93 : ENDSTEP
94 : STEP Stage7_643
95 : CHANGE Ug5_2_8_L_0 D-FRICT=31.08 LeftWall_32
96 : CHANGE Ug6_741_743_L_0 D-FRICT=21.32 LeftWall_32
97 : CHANGE Ug5_2_8_L_0 D-COHE=0 LeftWall_32
98 : CHANGE Ug6_741_743_L_0 D-COHE=4 LeftWall_32
99 : SETWALL LeftWall_32
100 : GEOM 0 -4.5
101 : WATER 0 4.5 -16 0 0
102 : ENDSTEP
```





```

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION *Build date:Jul 11, 2017* |
|                                                                                               |
|                                                                                               |
|          NewProject.BaseDesignSection_28.A2M2R1_1787 |
|          Exe Time :24 May 2018          18:25:48    |
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```

ELEMENT GROUP NO. 1

```

0_L
  5 81 0 1 0 0 0 0 0 0 0 0 0 0 2 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
7 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

```

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	1	0.2000	0.000	0.000	0.000	1.000
22	22	1	0.2000	0.000	0.000	0.000	1.000
23	23	1	0.2000	0.000	0.000	0.000	1.000
24	24	1	0.2000	0.000	0.000	0.000	1.000
25	25	1	0.2000	0.000	0.000	0.000	1.000
26	26	1	0.2000	0.000	0.000	0.000	1.000
27	27	1	0.2000	0.000	0.000	0.000	1.000
28	28	1	0.2000	0.000	0.000	0.000	1.000
29	29	1	0.2000	0.000	0.000	0.000	1.000
30	30	1	0.2000	0.000	0.000	0.000	1.000
31	31	1	0.2000	0.000	0.000	0.000	1.000
32	32	1	0.2000	0.000	0.000	0.000	1.000
33	33	1	0.2000	0.000	0.000	0.000	1.000
34	34	1	0.2000	0.000	0.000	0.000	1.000
35	35	1	0.2000	0.000	0.000	0.000	1.000
36	36	1	0.2000	0.000	0.000	0.000	1.000
37	37	1	0.2000	0.000	0.000	0.000	1.000
38	38	1	0.2000	0.000	0.000	0.000	1.000
39	39	1	0.2000	0.000	0.000	0.000	1.000
40	40	1	0.2000	0.000	0.000	0.000	1.000
41	41	1	0.2000	0.000	0.000	0.000	1.000
42	42	1	0.2000	0.000	0.000	0.000	1.000
43	43	1	0.2000	0.000	0.000	0.000	1.000
44	44	1	0.2000	0.000	0.000	0.000	1.000
45	45	1	0.2000	0.000	0.000	0.000	1.000

46	46	1	0.2000	0.000	0.000	0.000	0.000	1.000
47	47	1	0.2000	0.000	0.000	0.000	0.000	1.000
48	48	1	0.2000	0.000	0.000	0.000	0.000	1.000
49	49	1	0.2000	0.000	0.000	0.000	0.000	1.000
50	50	1	0.2000	0.000	0.000	0.000	0.000	1.000
51	51	1	0.2000	0.000	0.000	0.000	0.000	1.000
52	52	1	0.2000	0.000	0.000	0.000	0.000	1.000
53	53	1	0.2000	0.000	0.000	0.000	0.000	1.000
54	54	1	0.2000	0.000	0.000	0.000	0.000	1.000
55	55	1	0.2000	0.000	0.000	0.000	0.000	1.000
56	56	1	0.2000	0.000	0.000	0.000	0.000	1.000
57	57	1	0.2000	0.000	0.000	0.000	0.000	1.000
58	58	1	0.2000	0.000	0.000	0.000	0.000	1.000
59	59	1	0.2000	0.000	0.000	0.000	0.000	1.000
60	60	1	0.2000	0.000	0.000	0.000	0.000	1.000
61	61	1	0.2000	0.000	0.000	0.000	0.000	1.000
62	62	2	0.2000	0.000	0.000	0.000	0.000	1.000
63	63	2	0.2000	0.000	0.000	0.000	0.000	1.000
64	64	2	0.2000	0.000	0.000	0.000	0.000	1.000
65	65	2	0.2000	0.000	0.000	0.000	0.000	1.000
66	66	2	0.2000	0.000	0.000	0.000	0.000	1.000
67	67	2	0.2000	0.000	0.000	0.000	0.000	1.000
68	68	2	0.2000	0.000	0.000	0.000	0.000	1.000
69	69	2	0.2000	0.000	0.000	0.000	0.000	1.000
70	70	2	0.2000	0.000	0.000	0.000	0.000	1.000
71	71	2	0.2000	0.000	0.000	0.000	0.000	1.000
72	72	2	0.2000	0.000	0.000	0.000	0.000	1.000
73	73	2	0.2000	0.000	0.000	0.000	0.000	1.000
74	74	2	0.2000	0.000	0.000	0.000	0.000	1.000
75	75	2	0.2000	0.000	0.000	0.000	0.000	1.000
76	76	2	0.2000	0.000	0.000	0.000	0.000	1.000
77	77	2	0.2000	0.000	0.000	0.000	0.000	1.000
78	78	2	0.2000	0.000	0.000	0.000	0.000	1.000
79	79	2	0.2000	0.000	0.000	0.000	0.000	1.000
80	80	2	0.2000	0.000	0.000	0.000	0.000	1.000
81	81	2	0.1000	0.000	0.000	0.000	0.000	1.000

```

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION *Build date:Jul 11, 2017* |
|                                                                                               |
|                                                                                               |
|          NewProject.BaseDesignSection_28.A2M2R1_1787 |
|          Exe Time :24 May 2018          18:25:48    |
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```

ELEMENT GROUP NO. 2

```

0_R
  5 81 0 1 0 0 0 0 0 0 0 0 0 0 2 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
7 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

```

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	1	0.2000	0.000	0.000	0.000	2.000
22	22	1	0.2000	0.000	0.000	0.000	2.000
23	23	1	0.2000	0.000	0.000	0.000	2.000
24	24	1	0.2000	0.000	0.000	0.000	2.000
25	25	1	0.2000	0.000	0.000	0.000	2.000
26	26	1	0.2000	0.000	0.000	0.000	2.000
27	27	1	0.2000	0.000	0.000	0.000	2.000
28	28	1	0.2000	0.000	0.000	0.000	2.000
29	29	1	0.2000	0.000	0.000	0.000	2.000
30	30	1	0.2000	0.000	0.000	0.000	2.000
31	31	1	0.2000	0.000	0.000	0.000	2.000
32	32	1	0.2000	0.000	0.000	0.000	2.000
33	33	1	0.2000	0.000	0.000	0.000	2.000
34	34	1	0.2000	0.000	0.000	0.000	2.000
35	35	1	0.2000	0.000	0.000	0.000	2.000
36	36	1	0.2000	0.000	0.000	0.000	2.000
37	37	1	0.2000	0.000	0.000	0.000	2.000
38	38	1	0.2000	0.000	0.000	0.000	2.000
39	39	1	0.2000	0.000	0.000	0.000	2.000
40	40	1	0.2000	0.000	0.000	0.000	2.000
41	41	1	0.2000	0.000	0.000	0.000	2.000
42	42	1	0.2000	0.000	0.000	0.000	2.000
43	43	1	0.2000	0.000	0.000	0.000	2.000
44	44	1	0.2000	0.000	0.000	0.000	2.000
45	45	1	0.2000	0.000	0.000	0.000	2.000

46	46	1	0.2000	0.000	0.000	0.000	0.000	2.000
47	47	1	0.2000	0.000	0.000	0.000	0.000	2.000
48	48	1	0.2000	0.000	0.000	0.000	0.000	2.000
49	49	1	0.2000	0.000	0.000	0.000	0.000	2.000
50	50	1	0.2000	0.000	0.000	0.000	0.000	2.000
51	51	1	0.2000	0.000	0.000	0.000	0.000	2.000
52	52	1	0.2000	0.000	0.000	0.000	0.000	2.000
53	53	1	0.2000	0.000	0.000	0.000	0.000	2.000
54	54	1	0.2000	0.000	0.000	0.000	0.000	2.000
55	55	1	0.2000	0.000	0.000	0.000	0.000	2.000
56	56	1	0.2000	0.000	0.000	0.000	0.000	2.000
57	57	1	0.2000	0.000	0.000	0.000	0.000	2.000
58	58	1	0.2000	0.000	0.000	0.000	0.000	2.000
59	59	1	0.2000	0.000	0.000	0.000	0.000	2.000
60	60	1	0.2000	0.000	0.000	0.000	0.000	2.000
61	61	1	0.2000	0.000	0.000	0.000	0.000	2.000
62	62	2	0.2000	0.000	0.000	0.000	0.000	2.000
63	63	2	0.2000	0.000	0.000	0.000	0.000	2.000
64	64	2	0.2000	0.000	0.000	0.000	0.000	2.000
65	65	2	0.2000	0.000	0.000	0.000	0.000	2.000
66	66	2	0.2000	0.000	0.000	0.000	0.000	2.000
67	67	2	0.2000	0.000	0.000	0.000	0.000	2.000
68	68	2	0.2000	0.000	0.000	0.000	0.000	2.000
69	69	2	0.2000	0.000	0.000	0.000	0.000	2.000
70	70	2	0.2000	0.000	0.000	0.000	0.000	2.000
71	71	2	0.2000	0.000	0.000	0.000	0.000	2.000
72	72	2	0.2000	0.000	0.000	0.000	0.000	2.000
73	73	2	0.2000	0.000	0.000	0.000	0.000	2.000
74	74	2	0.2000	0.000	0.000	0.000	0.000	2.000
75	75	2	0.2000	0.000	0.000	0.000	0.000	2.000
76	76	2	0.2000	0.000	0.000	0.000	0.000	2.000
77	77	2	0.2000	0.000	0.000	0.000	0.000	2.000
78	78	2	0.2000	0.000	0.000	0.000	0.000	2.000
79	79	2	0.2000	0.000	0.000	0.000	0.000	2.000
80	80	2	0.2000	0.000	0.000	0.000	0.000	2.000
81	81	2	0.1000	0.000	0.000	0.000	0.000	2.000

```

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|                                                                                               |
|          NewProject.BaseDesignSection_28.A2M2R1_1787  |
|          Exe Time :24 May 2018          18:25:48      |
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```

ELEMENT GROUP NO. 3

```

WallElement_33      :
  2 80 0 1 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
7 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 ..... 0.00000

```

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
7 1.000

```

element data

e1	na	nb	mat	erc1	erc2	thick	by-i	by-j
1	1	2	1	0.000	0.000	0.8121	0.000	0.000
2	2	3	1	0.000	0.000	0.8121	0.000	0.000
3	3	4	1	0.000	0.000	0.8121	0.000	0.000
4	4	5	1	0.000	0.000	0.8121	0.000	0.000
5	5	6	1	0.000	0.000	0.8121	0.000	0.000
6	6	7	1	0.000	0.000	0.8121	0.000	0.000
7	7	8	1	0.000	0.000	0.8121	0.000	0.000
8	8	9	1	0.000	0.000	0.8121	0.000	0.000
9	9	10	1	0.000	0.000	0.8121	0.000	0.000
10	10	11	1	0.000	0.000	0.8121	0.000	0.000
11	11	12	1	0.000	0.000	0.8121	0.000	0.000
12	12	13	1	0.000	0.000	0.8121	0.000	0.000
13	13	14	1	0.000	0.000	0.8121	0.000	0.000
14	14	15	1	0.000	0.000	0.8121	0.000	0.000
15	15	16	1	0.000	0.000	0.8121	0.000	0.000
16	16	17	1	0.000	0.000	0.8121	0.000	0.000
17	17	18	1	0.000	0.000	0.8121	0.000	0.000
18	18	19	1	0.000	0.000	0.8121	0.000	0.000
19	19	20	1	0.000	0.000	0.8121	0.000	0.000
20	20	21	1	0.000	0.000	0.8121	0.000	0.000
21	21	22	1	0.000	0.000	0.8121	0.000	0.000
22	22	23	1	0.000	0.000	0.8121	0.000	0.000
23	23	24	1	0.000	0.000	0.8121	0.000	0.000
24	24	25	1	0.000	0.000	0.8121	0.000	0.000
25	25	26	1	0.000	0.000	0.8121	0.000	0.000
26	26	27	1	0.000	0.000	0.8121	0.000	0.000
27	27	28	1	0.000	0.000	0.8121	0.000	0.000
28	28	29	1	0.000	0.000	0.8121	0.000	0.000
29	29	30	1	0.000	0.000	0.8121	0.000	0.000
30	30	31	1	0.000	0.000	0.8121	0.000	0.000
31	31	32	1	0.000	0.000	0.8121	0.000	0.000
32	32	33	1	0.000	0.000	0.8121	0.000	0.000
33	33	34	1	0.000	0.000	0.8121	0.000	0.000
34	34	35	1	0.000	0.000	0.8121	0.000	0.000
35	35	36	1	0.000	0.000	0.8121	0.000	0.000
36	36	37	1	0.000	0.000	0.8121	0.000	0.000
37	37	38	1	0.000	0.000	0.8121	0.000	0.000
38	38	39	1	0.000	0.000	0.8121	0.000	0.000

39	39	40	1	0.000	0.000	0.8121	0.000	0.000
40	40	41	1	0.000	0.000	0.8121	0.000	0.000
41	41	42	1	0.000	0.000	0.8121	0.000	0.000
42	42	43	1	0.000	0.000	0.8121	0.000	0.000
43	43	44	1	0.000	0.000	0.8121	0.000	0.000
44	44	45	1	0.000	0.000	0.8121	0.000	0.000
45	45	46	1	0.000	0.000	0.8121	0.000	0.000
46	46	47	1	0.000	0.000	0.8121	0.000	0.000
47	47	48	1	0.000	0.000	0.8121	0.000	0.000
48	48	49	1	0.000	0.000	0.8121	0.000	0.000
49	49	50	1	0.000	0.000	0.8121	0.000	0.000
50	50	51	1	0.000	0.000	0.8121	0.000	0.000
51	51	52	1	0.000	0.000	0.8121	0.000	0.000
52	52	53	1	0.000	0.000	0.8121	0.000	0.000
53	53	54	1	0.000	0.000	0.8121	0.000	0.000
54	54	55	1	0.000	0.000	0.8121	0.000	0.000
55	55	56	1	0.000	0.000	0.8121	0.000	0.000
56	56	57	1	0.000	0.000	0.8121	0.000	0.000
57	57	58	1	0.000	0.000	0.8121	0.000	0.000
58	58	59	1	0.000	0.000	0.8121	0.000	0.000
59	59	60	1	0.000	0.000	0.8121	0.000	0.000
60	60	61	1	0.000	0.000	0.8121	0.000	0.000
61	61	62	1	0.000	0.000	0.8121	0.000	0.000
62	62	63	1	0.000	0.000	0.8121	0.000	0.000
63	63	64	1	0.000	0.000	0.8121	0.000	0.000
64	64	65	1	0.000	0.000	0.8121	0.000	0.000
65	65	66	1	0.000	0.000	0.8121	0.000	0.000
66	66	67	1	0.000	0.000	0.8121	0.000	0.000
67	67	68	1	0.000	0.000	0.8121	0.000	0.000
68	68	69	1	0.000	0.000	0.8121	0.000	0.000
69	69	70	1	0.000	0.000	0.8121	0.000	0.000
70	70	71	1	0.000	0.000	0.8121	0.000	0.000
71	71	72	1	0.000	0.000	0.8121	0.000	0.000
72	72	73	1	0.000	0.000	0.8121	0.000	0.000
73	73	74	1	0.000	0.000	0.8121	0.000	0.000
74	74	75	1	0.000	0.000	0.8121	0.000	0.000
75	75	76	1	0.000	0.000	0.8121	0.000	0.000
76	76	77	1	0.000	0.000	0.8121	0.000	0.000
77	77	78	1	0.000	0.000	0.8121	0.000	0.000
78	78	79	1	0.000	0.000	0.8121	0.000	0.000
79	79	80	1	0.000	0.000	0.8121	0.000	0.000
80	80	81	1	0.000	0.000	0.8121	0.000	0.000

```
+-----+
|          PARATIEPLUS(TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|                               NewProject.BaseDesignSection_28.A2M2R1_1787                       |
|                               Exe Time :24 May 2018      18:25:48                             |
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NO. OF NODAL LOADS (NLOAD) ..... 0
NO. OF LOAD CURVES (NLCUR) ..... 14
MAXIMUM POINTS/LCURVE (NPTM)..... 5
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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*          |
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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
8.00000	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
8.00000	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
8.00000	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
8.00000	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
8.00000	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
8.00000	0.0000E+00



LOAD FUNCTION NUMBER = 7  
NUMBER OF TIME POINTS = 5

TIME VALUE	FUNCTION
0.00000	0.0000E+00
6.80000	0.0000E+00
7.00000	0.1000E+01
7.20000	0.0000E+00
8.00000	0.0000E+00

LOAD FUNCTION NUMBER = 8  
NUMBER OF TIME POINTS = 4

TIME VALUE	FUNCTION
0.00000	0.0000E+00
0.80000	0.0000E+00
1.00000	0.1000E+01
8.00000	0.1000E+01

LOAD FUNCTION NUMBER = 9  
NUMBER OF TIME POINTS = 4

TIME VALUE	FUNCTION
0.00000	0.0000E+00
1.80000	0.0000E+00
2.00000	0.1000E+01
8.00000	0.1000E+01

LOAD FUNCTION NUMBER = 10  
NUMBER OF TIME POINTS = 4

TIME VALUE	FUNCTION
0.00000	0.0000E+00
2.80000	0.0000E+00
3.00000	0.1000E+01
8.00000	0.1000E+01

LOAD FUNCTION NUMBER = 11  
NUMBER OF TIME POINTS = 4

TIME VALUE	FUNCTION
0.00000	0.0000E+00
3.80000	0.0000E+00
4.00000	0.1000E+01
8.00000	0.1000E+01

LOAD FUNCTION NUMBER = 12  
NUMBER OF TIME POINTS = 4

TIME VALUE	FUNCTION
0.00000	0.0000E+00
4.80000	0.0000E+00
5.00000	0.1000E+01
8.00000	0.1000E+01

LOAD FUNCTION NUMBER = 13  
NUMBER OF TIME POINTS = 4

TIME VALUE	FUNCTION
0.00000	0.0000E+00
5.80000	0.0000E+00
6.00000	0.1000E+01
8.00000	0.1000E+01

LOAD FUNCTION NUMBER = 14  
NUMBER OF TIME POINTS = 4

TIME VALUE	FUNCTION
0.00000	0.0000E+00

6.80000	0.0000E+00
7.00000	0.1000E+01
8.00000	0.1000E+01

NO. OF DISTRIBUTED LOAD CARDS      0

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION *Build date:Jul 11, 2017*          |
|                                                                                                                                            |
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|                                                                                                                                            |
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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
STEP	7	TOTAL APPLIED LOAD IN DIR.	2	Y-DISPL.F	0.0000000
STEP	7	TOTAL APPLIED LOAD IN DIR.	4	X-ROT. F	0.0000000

LOAD INPUT SECTION COMPLETED

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+-----+
|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|                               NewProject.BaseDesignSection_28.A2M2R1_1787                       |
|                               Exe Time :24 May 2018      18:25:48                             |
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NO. OF LAYERS ..... 2
NO. OF DATA PER LAYER..... 100
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|                PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                                  |
|                                                                                                  |
|                NewProject.BaseDesignSection_28.A2M2R1_1787  |
|                Exe Time :24 May 2018  18:25:48  |
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LAYER DESCRIPTORS FOR STEP NO. 1

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

```

ITEM NO.  1<NAME      >= 18.000  (BOTH WALLS)
ITEM NO.  2<NATURE   >= 1.0000  (BOTH WALLS)
ITEM NO.  3<LEVEL    >= 0.0000  (BOTH WALLS)
ITEM NO.  4<WALL     >= 1.0000  (BOTH WALLS)
ITEM NO.  5<GAMMAD   >= 19.000  (BOTH WALLS)
ITEM NO.  6<GAMMAB   >= 10.000  (BOTH WALLS)
ITEM NO.  7<GAMMAW   >= 10.000  (BOTH WALLS)
ITEM NO.  9<U-FRICT  >= 31.080  WALL NO.    1
ITEM NO.  9<U-FRICT  >= 37.000  WALL NO.    2
ITEM NO. 10<U-KA     >= 0.31900  WALL NO.    1
ITEM NO. 11<U-KP     >= 4.5780  WALL NO.    1
ITEM NO. 12<K0-NC    >= 0.50000  (BOTH WALLS)
ITEM NO. 13<NEXP     >= 0.50000  (BOTH WALLS)
ITEM NO. 14<OCR      >= 1.0000  (BOTH WALLS)
ITEM NO. 16<MODEL    >= 1.0000  (BOTH WALLS)
ITEM NO. 17<EVC      >= 50000.  (BOTH WALLS)
ITEM NO. 18<EUR      >= 0.15000E+06 (BOTH WALLS)
ITEM NO. 27<U-PERM   >= 0.10000E-03 (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 >= 31.080  WALL NO.    1
ITEM NO. 59<D-FRICT >= 37.000  WALL NO.    2
ITEM NO. 60<D-KA     >= 0.31900  WALL NO.    1
ITEM NO. 61<D-KP     >= 4.5780  WALL NO.    1
ITEM NO. 77<D-PERM   >= 0.10000E-03 (BOTH WALLS)

```

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

```

ITEM NO.  1<NAME      >= 19.000  (BOTH WALLS)
ITEM NO.  2<NATURE   >= 1.0000  (BOTH WALLS)
ITEM NO.  3<LEVEL    >= -12.000  (BOTH WALLS)
ITEM NO.  4<WALL     >= 1.0000  (BOTH WALLS)
ITEM NO.  5<GAMMAD   >= 18.500  (BOTH WALLS)
ITEM NO.  6<GAMMAB   >= 9.0000  (BOTH WALLS)
ITEM NO.  7<GAMMAW   >= 10.000  (BOTH WALLS)
ITEM NO.  8<U-COHE   >= 4.0000  WALL NO.    1
ITEM NO.  8<U-COHE   >= 5.0000  WALL NO.    2
ITEM NO.  9<U-FRICT  >= 21.320  WALL NO.    1
ITEM NO.  9<U-FRICT  >= 26.000  WALL NO.    2
ITEM NO. 10<U-KA     >= 0.46700  WALL NO.    1
ITEM NO. 11<U-KP     >= 2.6490  WALL NO.    1
ITEM NO. 12<K0-NC    >= 0.50000  (BOTH WALLS)
ITEM NO. 13<NEXP     >= 0.50000  (BOTH WALLS)
ITEM NO. 14<OCR      >= 1.0000  (BOTH WALLS)
ITEM NO. 16<MODEL    >= 1.0000  (BOTH WALLS)
ITEM NO. 17<EVC      >= 30000.  (BOTH WALLS)
ITEM NO. 18<EUR      >= 90000.  (BOTH WALLS)
ITEM NO. 27<U-PERM   >= 0.10000E-03 (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   >= 4.0000  WALL NO.    1
ITEM NO. 58<D-COHE   >= 5.0000  WALL NO.    2
ITEM NO. 59<D-FRICT >= 21.320  WALL NO.    1
ITEM NO. 59<D-FRICT >= 26.000  WALL NO.    2
ITEM NO. 60<D-KA     >= 0.46700  WALL NO.    1
ITEM NO. 61<D-KP     >= 2.6490  WALL NO.    1
ITEM NO. 77<D-PERM   >= 0.10000E-03 (BOTH WALLS)

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LAYER DESCRIPTORS FOR STEP NO. 2

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

```

ITEM NO.  1<NAME      >= 18.000  (BOTH WALLS)
ITEM NO.  2<NATURE   >= 1.0000  (BOTH WALLS)
ITEM NO.  3<LEVEL    >= 0.0000  (BOTH WALLS)
ITEM NO.  4<WALL     >= 1.0000  (BOTH WALLS)
ITEM NO.  5<GAMMAD   >= 19.000  (BOTH WALLS)
ITEM NO.  6<GAMMAB   >= 10.000  (BOTH WALLS)
ITEM NO.  7<GAMMAW   >= 10.000  (BOTH WALLS)
ITEM NO.  9<U-FRICT  >= 31.080  WALL NO.    1
ITEM NO.  9<U-FRICT  >= 37.000  WALL NO.    2
ITEM NO. 10<U-KA     >= 0.31900  WALL NO.    1
ITEM NO. 11<U-KP     >= 4.5780  WALL NO.    1
ITEM NO. 12<K0-NC    >= 0.50000  (BOTH WALLS)
ITEM NO. 13<NEXP     >= 0.50000  (BOTH WALLS)

```

ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)  
 ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)  
 ITEM NO. 17<EVC >= 50000. (BOTH WALLS)  
 ITEM NO. 18<EUR >= 0.15000E+06 (BOTH WALLS)  
 ITEM NO. 27<U-PERM >= 0.10000E-03 (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 >= 31.080 WALL NO. 1  
 ITEM NO. 59<D-FRICT >= 37.000 WALL NO. 2  
 ITEM NO. 60<D-KA >= 0.31900 WALL NO. 1  
 ITEM NO. 61<D-KP >= 4.5780 WALL NO. 1  
 ITEM NO. 77<D-PERM >= 0.10000E-03 (BOTH WALLS)

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

ITEM NO. 1<NAME >= 19.000 (BOTH WALLS)  
 ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)  
 ITEM NO. 3<LEVEL >= -12.000 (BOTH WALLS)  
 ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)  
 ITEM NO. 5<GAMMAD >= 18.500 (BOTH WALLS)  
 ITEM NO. 6<GAMMAB >= 9.0000 (BOTH WALLS)  
 ITEM NO. 7<GAMMAW >= 10.000 (BOTH WALLS)  
 ITEM NO. 8<U-COHE >= 4.0000 WALL NO. 1  
 ITEM NO. 8<U-COHE >= 5.0000 WALL NO. 2  
 ITEM NO. 9<U-FRICT >= 21.320 WALL NO. 1  
 ITEM NO. 9<U-FRICT >= 26.000 WALL NO. 2  
 ITEM NO. 10<U-KA >= 0.46700 WALL NO. 1  
 ITEM NO. 11<U-KP >= 2.6490 WALL NO. 1  
 ITEM NO. 12<K0-NC >= 0.50000 (BOTH WALLS)  
 ITEM NO. 13<NEXP >= 0.50000 (BOTH WALLS)  
 ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)  
 ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)  
 ITEM NO. 17<EVC >= 30000. (BOTH WALLS)  
 ITEM NO. 18<EUR >= 90000. (BOTH WALLS)  
 ITEM NO. 27<U-PERM >= 0.10000E-03 (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 >= 4.0000 WALL NO. 1  
 ITEM NO. 58<D-COHE >= 5.0000 WALL NO. 2  
 ITEM NO. 59<D-FRICT >= 21.320 WALL NO. 1  
 ITEM NO. 59<D-FRICT >= 26.000 WALL NO. 2  
 ITEM NO. 60<D-KA >= 0.46700 WALL NO. 1  
 ITEM NO. 61<D-KP >= 2.6490 WALL NO. 1  
 ITEM NO. 77<D-PERM >= 0.10000E-03 (BOTH WALLS)

LAYER DESCRIPTORS FOR STEP NO. 3

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

ITEM NO. 1<NAME >= 18.000 (BOTH WALLS)  
 ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)  
 ITEM NO. 3<LEVEL >= 0.0000 (BOTH WALLS)  
 ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)  
 ITEM NO. 5<GAMMAD >= 19.000 (BOTH WALLS)  
 ITEM NO. 6<GAMMAB >= 10.000 (BOTH WALLS)  
 ITEM NO. 7<GAMMAW >= 10.000 (BOTH WALLS)  
 ITEM NO. 9<U-FRICT >= 31.080 WALL NO. 1  
 ITEM NO. 9<U-FRICT >= 37.000 WALL NO. 2  
 ITEM NO. 10<U-KA >= 0.31900 WALL NO. 1  
 ITEM NO. 11<U-KP >= 4.5780 WALL NO. 1  
 ITEM NO. 12<K0-NC >= 0.50000 (BOTH WALLS)  
 ITEM NO. 13<NEXP >= 0.50000 (BOTH WALLS)  
 ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)  
 ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)  
 ITEM NO. 17<EVC >= 50000. (BOTH WALLS)  
 ITEM NO. 18<EUR >= 0.15000E+06 (BOTH WALLS)  
 ITEM NO. 27<U-PERM >= 0.10000E-03 (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 >= 31.080 WALL NO. 1  
 ITEM NO. 59<D-FRICT >= 37.000 WALL NO. 2  
 ITEM NO. 60<D-KA >= 0.31900 WALL NO. 1  
 ITEM NO. 61<D-KP >= 4.5780 WALL NO. 1  
 ITEM NO. 77<D-PERM >= 0.10000E-03 (BOTH WALLS)

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

ITEM NO. 1<NAME >= 19.000 (BOTH WALLS)  
 ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)  
 ITEM NO. 3<LEVEL >= -12.000 (BOTH WALLS)  
 ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)  
 ITEM NO. 5<GAMMAD >= 18.500 (BOTH WALLS)  
 ITEM NO. 6<GAMMAB >= 9.0000 (BOTH WALLS)  
 ITEM NO. 7<GAMMAW >= 10.000 (BOTH WALLS)  
 ITEM NO. 8<U-COHE >= 4.0000 WALL NO. 1  
 ITEM NO. 8<U-COHE >= 5.0000 WALL NO. 2  
 ITEM NO. 9<U-FRICT >= 21.320 WALL NO. 1  
 ITEM NO. 9<U-FRICT >= 26.000 WALL NO. 2  
 ITEM NO. 10<U-KA >= 0.46700 WALL NO. 1  
 ITEM NO. 11<U-KP >= 2.6490 WALL NO. 1

ITEM NO. 12<K0-NC >= 0.50000 (BOTH WALLS)  
 ITEM NO. 13<NEXP >= 0.50000 (BOTH WALLS)  
 ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)  
 ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)  
 ITEM NO. 17<EVC >= 30000. (BOTH WALLS)  
 ITEM NO. 18<EUR >= 90000. (BOTH WALLS)  
 ITEM NO. 27<U-PERM >= 0.10000E-03 (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 >= 4.0000 WALL NO. 1  
 ITEM NO. 58<D-COHE >= 5.0000 WALL NO. 2  
 ITEM NO. 59<D-FRICT >= 21.320 WALL NO. 1  
 ITEM NO. 59<D-FRICT >= 26.000 WALL NO. 2  
 ITEM NO. 60<D-KA >= 0.46700 WALL NO. 1  
 ITEM NO. 61<D-KP >= 2.6490 WALL NO. 1  
 ITEM NO. 77<D-PERM >= 0.10000E-03 (BOTH WALLS)

LAYER DESCRIPTORS FOR STEP NO. 4

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

ITEM NO. 1<NAME >= 18.000 (BOTH WALLS)  
 ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)  
 ITEM NO. 3<LEVEL >= 0.0000 (BOTH WALLS)  
 ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)  
 ITEM NO. 5<GAMMAD >= 19.000 (BOTH WALLS)  
 ITEM NO. 6<GAMMAB >= 10.000 (BOTH WALLS)  
 ITEM NO. 7<GAMMAW >= 10.000 (BOTH WALLS)  
 ITEM NO. 9<U-FRICT >= 31.080 WALL NO. 1  
 ITEM NO. 9<U-FRICT >= 37.000 WALL NO. 2  
 ITEM NO. 10<U-KA >= 0.31900 WALL NO. 1  
 ITEM NO. 11<U-KP >= 4.5780 WALL NO. 1  
 ITEM NO. 12<K0-NC >= 0.50000 (BOTH WALLS)  
 ITEM NO. 13<NEXP >= 0.50000 (BOTH WALLS)  
 ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)  
 ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)  
 ITEM NO. 17<EVC >= 50000. (BOTH WALLS)  
 ITEM NO. 18<EUR >= 0.15000E+06 (BOTH WALLS)  
 ITEM NO. 27<U-PERM >= 0.10000E-03 (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 >= 31.080 WALL NO. 1  
 ITEM NO. 59<D-FRICT >= 37.000 WALL NO. 2  
 ITEM NO. 60<D-KA >= 0.31900 WALL NO. 1  
 ITEM NO. 61<D-KP >= 4.5780 WALL NO. 1  
 ITEM NO. 77<D-PERM >= 0.10000E-03 (BOTH WALLS)

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

ITEM NO. 1<NAME >= 19.000 (BOTH WALLS)  
 ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)  
 ITEM NO. 3<LEVEL >= -12.000 (BOTH WALLS)  
 ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)  
 ITEM NO. 5<GAMMAD >= 18.500 (BOTH WALLS)  
 ITEM NO. 6<GAMMAB >= 9.0000 (BOTH WALLS)  
 ITEM NO. 7<GAMMAW >= 10.000 (BOTH WALLS)  
 ITEM NO. 8<U-COHE >= 4.0000 WALL NO. 1  
 ITEM NO. 8<U-COHE >= 5.0000 WALL NO. 2  
 ITEM NO. 9<U-FRICT >= 21.320 WALL NO. 1  
 ITEM NO. 9<U-FRICT >= 26.000 WALL NO. 2  
 ITEM NO. 10<U-KA >= 0.46700 WALL NO. 1  
 ITEM NO. 11<U-KP >= 2.6490 WALL NO. 1  
 ITEM NO. 12<K0-NC >= 0.50000 (BOTH WALLS)  
 ITEM NO. 13<NEXP >= 0.50000 (BOTH WALLS)  
 ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)  
 ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)  
 ITEM NO. 17<EVC >= 30000. (BOTH WALLS)  
 ITEM NO. 18<EUR >= 90000. (BOTH WALLS)  
 ITEM NO. 27<U-PERM >= 0.10000E-03 (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 >= 4.0000 WALL NO. 1  
 ITEM NO. 58<D-COHE >= 5.0000 WALL NO. 2  
 ITEM NO. 59<D-FRICT >= 21.320 WALL NO. 1  
 ITEM NO. 59<D-FRICT >= 26.000 WALL NO. 2  
 ITEM NO. 60<D-KA >= 0.46700 WALL NO. 1  
 ITEM NO. 61<D-KP >= 2.6490 WALL NO. 1  
 ITEM NO. 77<D-PERM >= 0.10000E-03 (BOTH WALLS)

LAYER DESCRIPTORS FOR STEP NO. 5

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

ITEM NO. 1<NAME >= 18.000 (BOTH WALLS)  
 ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)  
 ITEM NO. 3<LEVEL >= 0.0000 (BOTH WALLS)  
 ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)  
 ITEM NO. 5<GAMMAD >= 19.000 (BOTH WALLS)  
 ITEM NO. 6<GAMMAB >= 10.000 (BOTH WALLS)

ITEM NO.	7<GAMMAW	>= 10.000	(BOTH WALLS)	
ITEM NO.	9<U-FRICT	>= 31.080	WALL NO.	1
ITEM NO.	9<U-FRICT	>= 37.000	WALL NO.	2
ITEM NO.	10<U-KA	>= 0.31900	WALL NO.	1
ITEM NO.	11<U-KP	>= 4.5780	WALL NO.	1
ITEM NO.	12<K0-NC	>= 0.50000	(BOTH WALLS)	
ITEM NO.	13<NEXP	>= 0.50000	(BOTH WALLS)	
ITEM NO.	14<OCR	>= 1.0000	(BOTH WALLS)	
ITEM NO.	16<MODEL	>= 1.0000	(BOTH WALLS)	
ITEM NO.	17<EVC	>= 50000.	(BOTH WALLS)	
ITEM NO.	18<EUR	>= 0.15000E+06	(BOTH WALLS)	
ITEM NO.	27<U-PERM	>= 0.10000E-03	(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	>= 31.080	WALL NO.	1
ITEM NO.	59<D-FRICT	>= 37.000	WALL NO.	2
ITEM NO.	60<D-KA	>= 0.31900	WALL NO.	1
ITEM NO.	61<D-KP	>= 4.5780	WALL NO.	1
ITEM NO.	77<D-PERM	>= 0.10000E-03	(BOTH WALLS)	

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

ITEM NO.	1<NAME	>= 19.000	(BOTH WALLS)	
ITEM NO.	2<NATURE	>= 1.0000	(BOTH WALLS)	
ITEM NO.	3<LEVEL	>= -12.000	(BOTH WALLS)	
ITEM NO.	4<WALL	>= 1.0000	(BOTH WALLS)	
ITEM NO.	5<GAMMAD	>= 18.500	(BOTH WALLS)	
ITEM NO.	6<GAMMAB	>= 9.0000	(BOTH WALLS)	
ITEM NO.	7<GAMMAW	>= 10.000	(BOTH WALLS)	
ITEM NO.	8<U-COHE	>= 4.0000	WALL NO.	1
ITEM NO.	8<U-COHE	>= 5.0000	WALL NO.	2
ITEM NO.	9<U-FRICT	>= 21.320	WALL NO.	1
ITEM NO.	9<U-FRICT	>= 26.000	WALL NO.	2
ITEM NO.	10<U-KA	>= 0.46700	WALL NO.	1
ITEM NO.	11<U-KP	>= 2.6490	WALL NO.	1
ITEM NO.	12<K0-NC	>= 0.50000	(BOTH WALLS)	
ITEM NO.	13<NEXP	>= 0.50000	(BOTH WALLS)	
ITEM NO.	14<OCR	>= 1.0000	(BOTH WALLS)	
ITEM NO.	16<MODEL	>= 1.0000	(BOTH WALLS)	
ITEM NO.	17<EVC	>= 30000.	(BOTH WALLS)	
ITEM NO.	18<EUR	>= 90000.	(BOTH WALLS)	
ITEM NO.	27<U-PERM	>= 0.10000E-03	(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	>= 4.0000	WALL NO.	1
ITEM NO.	58<D-COHE	>= 5.0000	WALL NO.	2
ITEM NO.	59<D-FRICT	>= 21.320	WALL NO.	1
ITEM NO.	59<D-FRICT	>= 26.000	WALL NO.	2
ITEM NO.	60<D-KA	>= 0.46700	WALL NO.	1
ITEM NO.	61<D-KP	>= 2.6490	WALL NO.	1
ITEM NO.	77<D-PERM	>= 0.10000E-03	(BOTH WALLS)	

LAYER DESCRIPTORS FOR STEP NO. 6

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

ITEM NO.	1<NAME	>= 18.000	(BOTH WALLS)	
ITEM NO.	2<NATURE	>= 1.0000	(BOTH WALLS)	
ITEM NO.	3<LEVEL	>= 0.0000	(BOTH WALLS)	
ITEM NO.	4<WALL	>= 1.0000	(BOTH WALLS)	
ITEM NO.	5<GAMMAD	>= 19.000	(BOTH WALLS)	
ITEM NO.	6<GAMMAB	>= 10.000	(BOTH WALLS)	
ITEM NO.	7<GAMMAW	>= 10.000	(BOTH WALLS)	
ITEM NO.	9<U-FRICT	>= 31.080	WALL NO.	1
ITEM NO.	9<U-FRICT	>= 37.000	WALL NO.	2
ITEM NO.	10<U-KA	>= 0.31900	WALL NO.	1
ITEM NO.	11<U-KP	>= 4.5780	WALL NO.	1
ITEM NO.	12<K0-NC	>= 0.50000	(BOTH WALLS)	
ITEM NO.	13<NEXP	>= 0.50000	(BOTH WALLS)	
ITEM NO.	14<OCR	>= 1.0000	(BOTH WALLS)	
ITEM NO.	16<MODEL	>= 1.0000	(BOTH WALLS)	
ITEM NO.	17<EVC	>= 50000.	(BOTH WALLS)	
ITEM NO.	18<EUR	>= 0.15000E+06	(BOTH WALLS)	
ITEM NO.	27<U-PERM	>= 0.10000E-03	(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	>= 31.080	WALL NO.	1
ITEM NO.	59<D-FRICT	>= 37.000	WALL NO.	2
ITEM NO.	60<D-KA	>= 0.31900	WALL NO.	1
ITEM NO.	61<D-KP	>= 4.5780	WALL NO.	1
ITEM NO.	77<D-PERM	>= 0.10000E-03	(BOTH WALLS)	

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

ITEM NO.	1<NAME	>= 19.000	(BOTH WALLS)	
ITEM NO.	2<NATURE	>= 1.0000	(BOTH WALLS)	
ITEM NO.	3<LEVEL	>= -12.000	(BOTH WALLS)	
ITEM NO.	4<WALL	>= 1.0000	(BOTH WALLS)	
ITEM NO.	5<GAMMAD	>= 18.500	(BOTH WALLS)	
ITEM NO.	6<GAMMAB	>= 9.0000	(BOTH WALLS)	



ITEM NO.	7<GAMMAW	>= 10.000	(BOTH WALLS)	
ITEM NO.	8<U-COHE	>= 4.0000	WALL NO.	1
ITEM NO.	8<U-COHE	>= 5.0000	WALL NO.	2
ITEM NO.	9<U-FRICT	>= 21.320	WALL NO.	1
ITEM NO.	9<U-FRICT	>= 26.000	WALL NO.	2
ITEM NO.	10<U-KA	>= 0.46700	WALL NO.	1
ITEM NO.	11<U-KP	>= 2.6490	WALL NO.	1
ITEM NO.	12<K0-NC	>= 0.50000	(BOTH WALLS)	
ITEM NO.	13<NEXP	>= 0.50000	(BOTH WALLS)	
ITEM NO.	14<OCR	>= 1.0000	(BOTH WALLS)	
ITEM NO.	16<MODEL	>= 1.0000	(BOTH WALLS)	
ITEM NO.	17<EVC	>= 30000.	(BOTH WALLS)	
ITEM NO.	18<EUR	>= 90000.	(BOTH WALLS)	
ITEM NO.	27<U-PERM	>= 0.10000E-03	(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	>= 4.0000	WALL NO.	1
ITEM NO.	58<D-COHE	>= 5.0000	WALL NO.	2
ITEM NO.	59<D-FRICT	>= 21.320	WALL NO.	1
ITEM NO.	59<D-FRICT	>= 26.000	WALL NO.	2
ITEM NO.	60<D-KA	>= 0.46700	WALL NO.	1
ITEM NO.	61<D-KP	>= 2.6490	WALL NO.	1
ITEM NO.	77<D-PERM	>= 0.10000E-03	(BOTH WALLS)	

LAYER DESCRIPTORS FOR STEP NO. 7

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 1 FOR STEP NO. 7

ITEM NO.	1<NAME	>= 18.000	(BOTH WALLS)	
ITEM NO.	2<NATURE	>= 1.0000	(BOTH WALLS)	
ITEM NO.	3<LEVEL	>= 0.0000	(BOTH WALLS)	
ITEM NO.	4<WALL	>= 1.0000	(BOTH WALLS)	
ITEM NO.	5<GAMMAD	>= 19.000	(BOTH WALLS)	
ITEM NO.	6<GAMMAB	>= 10.000	(BOTH WALLS)	
ITEM NO.	7<GAMMAW	>= 10.000	(BOTH WALLS)	
ITEM NO.	9<U-FRICT	>= 31.080	WALL NO.	1
ITEM NO.	9<U-FRICT	>= 37.000	WALL NO.	2
ITEM NO.	10<U-KA	>= 0.31900	WALL NO.	1
ITEM NO.	11<U-KP	>= 4.5780	WALL NO.	1
ITEM NO.	12<K0-NC	>= 0.50000	(BOTH WALLS)	
ITEM NO.	13<NEXP	>= 0.50000	(BOTH WALLS)	
ITEM NO.	14<OCR	>= 1.0000	(BOTH WALLS)	
ITEM NO.	16<MODEL	>= 1.0000	(BOTH WALLS)	
ITEM NO.	17<EVC	>= 50000.	(BOTH WALLS)	
ITEM NO.	18<EUR	>= 0.15000E+06	(BOTH WALLS)	
ITEM NO.	27<U-PERM	>= 0.10000E-03	(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	>= 31.080	WALL NO.	1
ITEM NO.	59<D-FRICT	>= 37.000	WALL NO.	2
ITEM NO.	60<D-KA	>= 0.31900	WALL NO.	1
ITEM NO.	61<D-KP	>= 4.5780	WALL NO.	1
ITEM NO.	77<D-PERM	>= 0.10000E-03	(BOTH WALLS)	

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 2 FOR STEP NO. 7

ITEM NO.	1<NAME	>= 19.000	(BOTH WALLS)	
ITEM NO.	2<NATURE	>= 1.0000	(BOTH WALLS)	
ITEM NO.	3<LEVEL	>= -12.000	(BOTH WALLS)	
ITEM NO.	4<WALL	>= 1.0000	(BOTH WALLS)	
ITEM NO.	5<GAMMAD	>= 18.500	(BOTH WALLS)	
ITEM NO.	6<GAMMAB	>= 9.0000	(BOTH WALLS)	
ITEM NO.	7<GAMMAW	>= 10.000	(BOTH WALLS)	
ITEM NO.	8<U-COHE	>= 4.0000	WALL NO.	1
ITEM NO.	8<U-COHE	>= 5.0000	WALL NO.	2
ITEM NO.	9<U-FRICT	>= 21.320	WALL NO.	1
ITEM NO.	9<U-FRICT	>= 26.000	WALL NO.	2
ITEM NO.	10<U-KA	>= 0.46700	WALL NO.	1
ITEM NO.	11<U-KP	>= 2.6490	WALL NO.	1
ITEM NO.	12<K0-NC	>= 0.50000	(BOTH WALLS)	
ITEM NO.	13<NEXP	>= 0.50000	(BOTH WALLS)	
ITEM NO.	14<OCR	>= 1.0000	(BOTH WALLS)	
ITEM NO.	16<MODEL	>= 1.0000	(BOTH WALLS)	
ITEM NO.	17<EVC	>= 30000.	(BOTH WALLS)	
ITEM NO.	18<EUR	>= 90000.	(BOTH WALLS)	
ITEM NO.	27<U-PERM	>= 0.10000E-03	(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	>= 4.0000	WALL NO.	1
ITEM NO.	58<D-COHE	>= 5.0000	WALL NO.	2
ITEM NO.	59<D-FRICT	>= 21.320	WALL NO.	1
ITEM NO.	59<D-FRICT	>= 26.000	WALL NO.	2
ITEM NO.	60<D-KA	>= 0.46700	WALL NO.	1
ITEM NO.	61<D-KP	>= 2.6490	WALL NO.	1
ITEM NO.	77<D-PERM	>= 0.10000E-03	(BOTH WALLS)	

DEFAULT WATER UNIT WEIGHT = 10.000  
 AVERAGED ON 14 VALUES



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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
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|          NewProject.BaseDesignSection_28.A2M2R1_1787  |
|          Exe Time :24 May 2018          18:25:48  |
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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           0.000      0.000
Z-EXCAVATION   0.000      0.000
Z-WATER_TABLE  0.000      -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           0.000      0.000
Z-EXCAVATION   -1.000      0.000
Z-WATER_TABLE  0.000      -0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL  0.000      0.000
ZQ             0.000      0.000
DZW_OF_THE_WATER_TABLE  1.000      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

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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	0.000	0.000
Z-EXCAVATION	-4.500	0.000
Z-WATER_TABLE	0.000	-0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL	0.000	0.000
ZQ	0.000	0.000
DZW_OF_THE_WATER_TABLE	4.500	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

STEP NO. 7

	LEFT WALL	RIGHT WALL
Y	0.000	-0.9990E+30
Z-PC	0.000	0.000
Z-EXCAVATION	-4.500	0.000
Z-WATER_TABLE	0.000	-0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL	0.000	0.000
ZQ	0.000	0.000
DZW_OF_THE_WATER_TABLE	4.500	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   7

LEFT-HAND WALL

LOWER LEVEL           -16.00000  
UPPER LEVEL            0.00000

RIGHT-HAND WALL

LOWER LEVEL           -16.00000  
UPPER LEVEL            0.00000

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION *Build date:Jul 11, 2017* |
|                                                                                               |
|                                                                                               |
|                               NewProject.BaseDesignSection_28.A2M2R1_1787                     |
|                               Exe Time :24 May 2018      18:25:48                             |
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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) 1.0000000000000000  
 FOUNDATION WIDTH (B) 11.7500000000000000  
 ZETA-F..... 0.0000000000000000E+000  
 Q-F ..... 6.5000000000000000  
 BETA ..... 45.0000000000000000  
 BEHAVIOUR (0=FREE, 1=REFLECTING) 0.0000000000000000E+000

ELEMENT GROUPS BACKUP AREA CAN STAY IN CORE AT  
 POSITION 4763

NO. OF D.P.W FOR THIS AREA 9554  
 MAX NO. OF D.P.W. AVAILABLE 81920  
 \*\* MAX NO OF ITERATIONS SET TO 40

ITER 0 RNORM = 0.000 RMNORM= 0.000  
 RINORM=0.1225E+06 RIMNOR= 0.000  
 RENORM=0.2495E-27 REMNOR= 0.000 RATIO =0.4514E-16 TOLER =0.1000E-03 CONVERGED !  
 RFMAX = 47.10 RMMAX = 0.000  
 RTSMAL=0.1000E-03 RMSMAL= 0.000  
 RDT =0.1225E+06 RDR = 0.000  
 RATIOI=0.4514E-16 RATIOIR= 0.000  
 MAX UN=0.7105E-14 IEQ= 153 NODE 77 DOF 1 Y-DISPL.F  
 MIN UN=-.7105E-14 IEQ= 133 NODE 67 DOF 1 Y-DISPL.F  
 NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 1 RNORM = 0.000 RMNORM= 0.000  
 RINORM=0.1225E+06 RIMNOR= 0.000  
 RENORM=0.1162E-28 REMNOR=0.1150E-51 RATIO =0.9740E-17 TOLER =0.1000E-03 CONVERGED !  
 RFMAX = 47.10 RMMAX = 0.000  
 RTSMAL=0.1000E-03 RMSMAL= 0.000  
 RDT =0.1225E+06 RDR = 0.000  
 RATIOI=0.9740E-17 RATIOIR= 0.000  
 MAX UN=0.5840E-15 IEQ= 159 NODE 80 DOF 1 Y-DISPL.F  
 MIN UN=-.6210E-15 IEQ= 73 NODE 37 DOF 1 Y-DISPL.F  
 NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 2 RNORM = 0.000 RMNORM= 0.000  
 RINORM=0.1225E+06 RIMNOR= 0.000  
 RENORM=0.9154E-29 REMNOR=0.2362E-51 RATIO =0.8646E-17 TOLER =0.1000E-03 CONVERGED !  
 RFMAX = 47.10 RMMAX = 0.000  
 RTSMAL=0.1000E-03 RMSMAL= 0.000  
 RDT =0.1225E+06 RDR = 0.000  
 RATIOI=0.8646E-17 RATIOIR= 0.000  
 MAX UN=0.4950E-15 IEQ= 159 NODE 80 DOF 1 Y-DISPL.F  
 MIN UN=-.5268E-15 IEQ= 71 NODE 36 DOF 1 Y-DISPL.F  
 NO. OF CONTACT CONSTRAINT VIOLATIONS 0

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|                               NewProject.BaseDesignSection_28.A2M2R1_1787                       |
|                               Exe Time :24 May 2018      18:25:48                             |
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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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|                PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*                |
|                                                                                                                                            |
|                                                                                                                                            |
|                NewProject.BaseDesignSection_28.A2M2R1_1787                                                                              |
|                Exe Time :24 May 2018      18:25:48                                                                              |
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New Project

STRESS RESULTS FOR GROUP NO. 1

0\_L  
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 81  
CURRENT TIME IS 1.0000

HARDENING 2D SOIL ELEMENT

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

EL * FACTOR	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
1 D	0.000	-3.0850E-20	0.000	0.000	0.000	0.000	V-C	4.1493E+04	0.000	0.000	
1.000	1.000	0.000	0.000	0.000	Ug5_2_8_L_0						
2 D	0.7483	-2.6844E-20	2.011	1.741	2.011	1.741	V-C	4.1493E+04	-0.2000	2.000	
1.000	1.000	3.741	0.000	0.000	Ug5_2_8_L_0						
3 D	1.474	-2.2838E-20	4.074	3.371	4.074	3.371	V-C	4.1493E+04	-0.4000	4.000	
1.000	1.000	7.371	0.000	0.000	Ug5_2_8_L_0						
4 D	2.167	-1.8829E-20	6.205	4.836	6.205	4.836	V-C	4.1493E+04	-0.6000	6.000	
1.000	1.000	10.84	0.000	0.000	Ug5_2_8_L_0						
5 D	2.829	-1.4817E-20	8.386	6.146	8.386	6.146	V-C	4.1493E+04	-0.8000	8.000	
1.000	1.000	14.15	0.000	0.000	Ug5_2_8_L_0						
6 D	3.467	-1.0798E-20	10.59	7.336	10.59	7.336	V-C	4.1493E+04	-1.000	10.00	
1.000	1.000	17.34	0.000	0.000	Ug5_2_8_L_0						
7 D	4.089	-6.7688E-21	12.79	8.443	12.79	8.443	V-C	4.1493E+04	-1.200	12.00	
1.000	1.000	20.44	0.000	0.000	Ug5_2_8_L_0						
8 D	4.699	-2.7296E-21	15.14	9.495	15.14	9.495	V-C	4.1493E+04	-1.400	14.00	
1.000	1.000	23.49	0.000	0.000	Ug5_2_8_L_0						
9 D	5.302	1.3210E-21	17.53	10.51	17.53	10.51	V-C	4.1493E+04	-1.600	16.00	
1.000	1.000	26.51	0.000	0.000	Ug5_2_8_L_0						
10 D	5.901	5.3838E-21	19.64	11.50	19.64	11.50	V-C	4.1493E+04	-1.800	18.00	
1.000	1.000	29.50	0.000	0.000	Ug5_2_8_L_0						
11 D	6.496	9.4593E-21	21.93	12.48	21.93	12.48	V-C	4.1493E+04	-2.000	20.00	
1.000	1.000	32.48	0.000	0.000	Ug5_2_8_L_0						
12 D	7.089	1.3548E-20	24.17	13.45	24.17	13.45	V-C	4.1493E+04	-2.200	22.00	
1.000	1.000	35.45	0.000	0.000	Ug5_2_8_L_0						
13 D	7.681	1.7648E-20	26.22	14.41	26.22	14.41	V-C	4.1493E+04	-2.400	24.00	
1.000	1.000	38.41	0.000	0.000	Ug5_2_8_L_0						
14 D	8.272	2.1760E-20	28.41	15.36	28.41	15.36	V-C	4.1493E+04	-2.600	26.00	
1.000	1.000	41.36	0.000	0.000	Ug5_2_8_L_0						
15 D	8.863	2.5880E-20	30.58	16.31	30.58	16.31	V-C	4.1493E+04	-2.800	28.00	
1.000	1.000	44.31	0.000	0.000	Ug5_2_8_L_0						
16 D	9.453	2.9996E-20	32.73	17.27	32.73	17.27	V-C	4.1493E+04	-3.000	30.00	
1.000	1.000	47.27	0.000	0.000	Ug5_2_8_L_0						
17 D	10.04	3.4094E-20	34.74	18.22	34.74	18.22	V-C	4.1493E+04	-3.200	32.00	
1.000	1.000	50.22	0.000	0.000	Ug5_2_8_L_0						
18 D	10.63	3.8159E-20	36.86	19.16	36.86	19.16	V-C	4.1493E+04	-3.400	34.00	
1.000	1.000	53.16	0.000	0.000	Ug5_2_8_L_0						
19 D	11.22	4.2174E-20	38.97	20.11	38.97	20.11	V-C	4.1493E+04	-3.600	36.00	
1.000	1.000	56.11	0.000	0.000	Ug5_2_8_L_0						
20 D	11.81	4.6119E-20	40.97	21.06	40.97	21.06	V-C	4.1493E+04	-3.800	38.00	
1.000	1.000	59.06	0.000	0.000	Ug5_2_8_L_0						
21 D	12.40	4.9975E-20	43.07	22.01	43.07	22.01	V-C	4.1493E+04	-4.000	40.00	
1.000	1.000	62.01	0.000	0.000	Ug5_2_8_L_0						
22 D	12.99	5.3722E-20	45.16	22.96	45.16	22.96	V-C	4.1493E+04	-4.200	42.00	
1.000	1.000	64.96	0.000	0.000	Ug5_2_8_L_0						
23 D	13.58	5.7344E-20	47.15	23.91	47.15	23.91	V-C	4.1493E+04	-4.400	44.00	
1.000	1.000	67.91	0.000	0.000	Ug5_2_8_L_0						
24 D	14.17	6.0825E-20	49.23	24.86	49.23	24.86	V-C	4.1493E+04	-4.600	46.00	
1.000	1.000	70.86	0.000	0.000	Ug5_2_8_L_0						
25 D	14.76	6.4146E-20	51.30	25.81	51.30	25.81	V-C	4.1493E+04	-4.800	48.00	
1.000	1.000	73.81	0.000	0.000	Ug5_2_8_L_0						
26 D	15.35	6.7287E-20	53.37	26.76	53.37	26.76	V-C	4.1493E+04	-5.000	50.00	
1.000	1.000	76.76	0.000	0.000	Ug5_2_8_L_0						
27 D	15.94	7.0226E-20	55.36	27.72	55.36	27.72	V-C	4.1493E+04	-5.200	52.00	
1.000	1.000	79.72	0.000	0.000	Ug5_2_8_L_0						
28 D	16.53	7.2938E-20	57.42	28.67	57.42	28.67	V-C	4.1493E+04	-5.400	54.00	
1.000	1.000	82.67	0.000	0.000	Ug5_2_8_L_0						
29 D	17.12	7.5403E-20	59.47	29.62	59.47	29.62	V-C	4.1493E+04	-5.600	56.00	
1.000	1.000	85.62	0.000	0.000	Ug5_2_8_L_0						
30 D	17.72	7.7602E-20	61.46	30.58	61.46	30.58	V-C	4.1493E+04	-5.800	58.00	
1.000	1.000	88.58	0.000	0.000	Ug5_2_8_L_0						
31 D	18.31	7.9513E-20	63.51	31.54	63.51	31.54	V-C	4.1493E+04	-6.000	60.00	
1.000	1.000	91.54	0.000	0.000	Ug5_2_8_L_0						
32 D	18.90	8.1129E-20	65.56	32.49	65.56	32.49	V-C	4.1493E+04	-6.200	62.00	
1.000	1.000	94.49	0.000	0.000	Ug5_2_8_L_0						
33 D	19.49	8.2439E-20	67.54	33.45	67.54	33.45	V-C	4.1493E+04	-6.400	64.00	

1.000	1.000	97.45	0.000	0.000	Ug5_2_8_L_0					
34 D	20.08	8.3432E-20	69.59	34.41	69.59	34.41	V-C	4.1493E+04	-6.600	66.00
1.000	1.000	100.4	0.000	0.000	Ug5_2_8_L_0					
35 D	20.67	8.4094E-20	71.63	35.37	71.63	35.37	V-C	4.1493E+04	-6.800	68.00
1.000	1.000	103.4	0.000	0.000	Ug5_2_8_L_0					
36 D	21.27	8.4406E-20	73.67	36.33	73.67	36.33	V-C	4.1493E+04	-7.000	70.00
1.000	1.000	106.3	0.000	0.000	Ug5_2_8_L_0					
37 D	21.86	8.4351E-20	75.65	37.30	75.65	37.30	V-C	4.1493E+04	-7.200	72.00
1.000	1.000	109.3	0.000	0.000	Ug5_2_8_L_0					
38 D	22.45	8.3926E-20	77.69	38.26	77.69	38.26	V-C	4.1493E+04	-7.400	74.00
1.000	1.000	112.3	0.000	0.000	Ug5_2_8_L_0					
39 D	23.04	8.3142E-20	79.72	39.22	79.72	39.22	V-C	4.1493E+04	-7.600	76.00
1.000	1.000	115.2	0.000	0.000	Ug5_2_8_L_0					
40 D	23.64	8.2008E-20	81.71	40.19	81.71	40.19	V-C	4.1493E+04	-7.800	78.00
1.000	1.000	118.2	0.000	0.000	Ug5_2_8_L_0					
41 D	24.23	8.0533E-20	83.74	41.16	83.74	41.16	V-C	4.1493E+04	-8.000	80.00
1.000	1.000	121.2	0.000	0.000	Ug5_2_8_L_0					
42 D	24.82	7.8722E-20	85.77	42.12	85.77	42.12	V-C	4.1493E+04	-8.200	82.00
1.000	1.000	124.1	0.000	0.000	Ug5_2_8_L_0					
43 D	25.42	7.6577E-20	87.76	43.09	87.76	43.09	V-C	4.1493E+04	-8.400	84.00
1.000	1.000	127.1	0.000	0.000	Ug5_2_8_L_0					
44 D	26.01	7.4097E-20	89.79	44.06	89.79	44.06	V-C	4.1493E+04	-8.600	86.00
1.000	1.000	130.1	0.000	0.000	Ug5_2_8_L_0					
45 D	26.61	7.1282E-20	91.82	45.03	91.82	45.03	V-C	4.1493E+04	-8.800	88.00
1.000	1.000	133.0	0.000	0.000	Ug5_2_8_L_0					
46 D	27.20	6.8146E-20	93.84	46.00	93.84	46.00	V-C	4.1493E+04	-9.000	90.00
1.000	1.000	136.0	0.000	0.000	Ug5_2_8_L_0					
47 D	27.79	6.4718E-20	95.83	46.97	95.83	46.97	V-C	4.1493E+04	-9.200	92.00
1.000	1.000	139.0	0.000	0.000	Ug5_2_8_L_0					
48 D	28.39	6.1027E-20	97.85	47.95	97.85	47.95	V-C	4.1493E+04	-9.400	94.00
1.000	1.000	141.9	0.000	0.000	Ug5_2_8_L_0					
49 D	28.98	5.7099E-20	99.88	48.92	99.88	48.92	V-C	4.1493E+04	-9.600	96.00
1.000	1.000	144.9	0.000	0.000	Ug5_2_8_L_0					
50 D	29.58	5.2961E-20	101.9	49.89	101.9	49.89	V-C	4.1493E+04	-9.800	98.00
1.000	1.000	147.9	0.000	0.000	Ug5_2_8_L_0					
51 D	30.17	4.8631E-20	103.9	50.87	103.9	50.87	V-C	4.1493E+04	-10.00	100.00
1.000	1.000	150.9	0.000	0.000	Ug5_2_8_L_0					
52 D	30.77	4.4112E-20	105.9	51.84	105.9	51.84	V-C	4.1493E+04	-10.20	102.0
1.000	1.000	153.8	0.000	0.000	Ug5_2_8_L_0					
53 D	31.36	3.9405E-20	107.9	52.82	107.9	52.82	V-C	4.1493E+04	-10.40	104.0
1.000	1.000	156.8	0.000	0.000	Ug5_2_8_L_0					
54 D	31.96	3.4508E-20	109.9	53.80	109.9	53.80	V-C	4.1493E+04	-10.60	106.0
1.000	1.000	159.8	0.000	0.000	Ug5_2_8_L_0					
55 D	32.55	2.9436E-20	111.9	54.77	111.9	54.77	V-C	4.1493E+04	-10.80	108.0
1.000	1.000	162.8	0.000	0.000	Ug5_2_8_L_0					
56 D	33.15	2.4201E-20	114.0	55.75	114.0	55.75	V-C	4.1493E+04	-11.00	110.0
1.000	1.000	165.8	0.000	0.000	Ug5_2_8_L_0					
57 D	33.75	1.8819E-20	115.9	56.73	115.9	56.73	V-C	4.1493E+04	-11.20	112.0
1.000	1.000	168.7	0.000	0.000	Ug5_2_8_L_0					
58 D	34.34	1.3300E-20	118.0	57.71	118.0	57.71	V-C	4.1493E+04	-11.40	114.0
1.000	1.000	171.7	0.000	0.000	Ug5_2_8_L_0					
59 D	34.94	7.6573E-21	120.0	58.69	120.0	58.69	V-C	4.1493E+04	-11.60	116.0
1.000	1.000	174.7	0.000	0.000	Ug5_2_8_L_0					
60 D	35.53	1.9018E-21	122.0	59.67	122.0	59.67	V-C	4.1493E+04	-11.80	118.0
1.000	1.000	177.7	0.000	0.000	Ug5_2_8_L_0					
61 D	36.13	-3.9556E-21	124.0	60.65	124.0	60.65	V-C	4.1493E+04	-12.00	120.0
1.000	1.000	180.7	0.000	0.000	Ug5_2_8_L_0					
62 D	36.71	-9.9041E-21	125.8	61.54	125.8	61.54	V-C	2.0584E+04	-12.20	122.0
1.000	1.000	183.5	0.000	0.000	Ug6_741_743_L_0					
63 D	37.28	-1.5933E-20	127.6	62.42	127.6	62.42	V-C	2.0584E+04	-12.40	124.0
1.000	1.000	186.4	0.000	0.000	Ug6_741_743_L_0					
64 D	37.86	-2.2038E-20	129.4	63.30	129.4	63.30	V-C	2.0584E+04	-12.60	126.0
1.000	1.000	189.3	0.000	0.000	Ug6_741_743_L_0					
65 D	38.44	-2.8240E-20	131.2	64.19	131.2	64.19	V-C	2.0584E+04	-12.80	128.0
1.000	1.000	192.2	0.000	0.000	Ug6_741_743_L_0					
66 D	39.01	-3.4570E-20	132.9	65.07	132.9	65.07	V-C	2.0584E+04	-13.00	130.0
1.000	1.000	195.1	0.000	0.000	Ug6_741_743_L_0					
67 D	39.59	-4.1055E-20	134.7	65.95	134.7	65.95	V-C	2.0584E+04	-13.20	132.0
1.000	1.000	198.0	0.000	0.000	Ug6_741_743_L_0					
68 D	40.17	-4.7714E-20	136.5	66.84	136.5	66.84	V-C	2.0584E+04	-13.40	134.0
1.000	1.000	200.8	0.000	0.000	Ug6_741_743_L_0					
69 D	40.75	-5.4542E-20	138.2	67.73	138.2	67.73	V-C	2.0584E+04	-13.60	136.0
1.000	1.000	203.7	0.000	0.000	Ug6_741_743_L_0					
70 D	41.32	-6.1523E-20	140.0	68.61	140.0	68.61	V-C	2.0584E+04	-13.80	138.0
1.000	1.000	206.6	0.000	0.000	Ug6_741_743_L_0					
71 D	41.90	-6.8640E-20	141.7	69.50	141.7	69.50	V-C	2.0584E+04	-14.00	140.0
1.000	1.000	209.5	0.000	0.000	Ug6_741_743_L_0					
72 D	42.48	-7.5876E-20	143.5	70.38	143.5	70.38	V-C	2.0584E+04	-14.20	142.0
1.000	1.000	212.4	0.000	0.000	Ug6_741_743_L_0					
73 D	43.05	-8.3212E-20	145.3	71.27	145.3	71.27	V-C	2.0584E+04	-14.40	144.0
1.000	1.000	215.3	0.000	0.000	Ug6_741_743_L_0					
74 D	43.63	-9.0627E-20	147.0	72.16	147.0	72.16	V-C	2.0584E+04	-14.60	146.0
1.000	1.000	218.2	0.000	0.000	Ug6_741_743_L_0					
75 D	44.21	-9.8099E-20	148.8	73.05	148.8	73.05	V-C	2.0584E+04	-14.80	148.0
1.000	1.000	221.0	0.000	0.000	Ug6_741_743_L_0					
76 D	44.79	-1.0560E-19	150.6	73.94	150.6	73.94	V-C	2.0584E+04	-15.00	150.0
1.000	1.000	223.9	0.000	0.000	Ug6_741_743_L_0					
77 D	45.36	-1.1311E-19	152.3	74.82	152.3	74.82	V-C	2.0584E+04	-15.20	152.0
1.000	1.000	226.8	0.000	0.000	Ug6_741_743_L_0					
78 D	45.94	-1.2061E-19	154.1	75.71	154.1	75.71	V-C	2.0584E+04	-15.40	154.0
1.000	1.000	229.7	0.000	0.000	Ug6_741_743_L_0					

79 D	46.52	-1.2809E-19	155.9	76.60	155.9	76.60	V-C	2.0584E+04	-15.60	156.0
1.000	1.000	232.6	0.000	0.000	Ug6_741_743_L_0					
80 D	47.10	-1.3556E-19	157.6	77.49	157.6	77.49	V-C	2.0584E+04	-15.80	158.0
1.000	1.000	235.5	0.000	0.000	Ug6_741_743_L_0					
81 D	23.84	-1.4304E-19	159.4	78.38	159.4	78.38	V-C	2.0584E+04	-16.00	160.0
1.000	1.000	238.4	0.000	0.000	Ug6_741_743_L_0					

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|                PARATIEPLUS(TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION *Build date:Jul 11, 2017*                |
|                                                                                                                                            |
|                                                                                                                                            |
|                NewProject.BaseDesignSection_28.A2M2R1_1787                                                                              |
|                Exe Time :24 May 2018      18:25:48                                                                              |
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New Project

STRESS RESULTS FOR GROUP NO. 2

0\_R :  
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 81  
CURRENT TIME IS 1.0000

HARDENING 2D SOIL ELEMENT

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

EL * FACTOR	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
1 D	0.000	3.0850E-20	0.000	0.000	0.000	0.000	V-C	2.6477E+04	0.000	0.000	
1.000	1.000	0.000	0.000	0.000	Ug5_2_8_L_0						
2 D	0.7483	2.6844E-20	2.000	1.741	2.000	1.741	V-C	2.6477E+04	-0.2000	2.000	
1.000	1.000	3.741	0.000	0.000	Ug5_2_8_L_0						
3 D	1.474	2.2838E-20	4.000	3.371	4.000	3.371	V-C	2.6477E+04	-0.4000	4.000	
1.000	1.000	7.371	0.000	0.000	Ug5_2_8_L_0						
4 D	2.167	1.8829E-20	6.000	4.836	6.000	4.836	V-C	2.6477E+04	-0.6000	6.000	
1.000	1.000	10.84	0.000	0.000	Ug5_2_8_L_0						
5 D	2.829	1.4817E-20	8.000	6.146	8.000	6.146	V-C	2.6477E+04	-0.8000	8.000	
1.000	1.000	14.15	0.000	0.000	Ug5_2_8_L_0						
6 D	3.467	1.0798E-20	10.00	7.336	10.00	7.336	V-C	2.6477E+04	-1.000	10.00	
1.000	1.000	17.34	0.000	0.000	Ug5_2_8_L_0						
7 D	4.089	6.7688E-21	12.00	8.443	12.00	8.443	V-C	2.6477E+04	-1.200	12.00	
1.000	1.000	20.44	0.000	0.000	Ug5_2_8_L_0						
8 D	4.699	2.7296E-21	14.00	9.495	14.00	9.495	V-C	2.6477E+04	-1.400	14.00	
1.000	1.000	23.49	0.000	0.000	Ug5_2_8_L_0						
9 D	5.302	-1.3210E-21	16.00	10.51	16.00	10.51	V-C	2.6477E+04	-1.600	16.00	
1.000	1.000	26.51	0.000	0.000	Ug5_2_8_L_0						
10 D	5.901	-5.3838E-21	18.00	11.50	18.00	11.50	V-C	2.6477E+04	-1.800	18.00	
1.000	1.000	29.50	0.000	0.000	Ug5_2_8_L_0						
11 D	6.496	-9.4593E-21	20.00	12.48	20.00	12.48	V-C	2.6477E+04	-2.000	20.00	
1.000	1.000	32.48	0.000	0.000	Ug5_2_8_L_0						
12 D	7.089	-1.3548E-20	22.00	13.45	22.00	13.45	V-C	2.6477E+04	-2.200	22.00	
1.000	1.000	35.45	0.000	0.000	Ug5_2_8_L_0						
13 D	7.681	-1.7648E-20	24.00	14.41	24.00	14.41	V-C	2.6477E+04	-2.400	24.00	
1.000	1.000	38.41	0.000	0.000	Ug5_2_8_L_0						
14 D	8.272	-2.1760E-20	26.00	15.36	26.00	15.36	V-C	2.6477E+04	-2.600	26.00	
1.000	1.000	41.36	0.000	0.000	Ug5_2_8_L_0						
15 D	8.863	-2.5880E-20	28.00	16.31	28.00	16.31	V-C	2.6477E+04	-2.800	28.00	
1.000	1.000	44.31	0.000	0.000	Ug5_2_8_L_0						
16 D	9.453	-2.9996E-20	30.00	17.27	30.00	17.27	V-C	2.6477E+04	-3.000	30.00	
1.000	1.000	47.27	0.000	0.000	Ug5_2_8_L_0						
17 D	10.04	-3.4094E-20	32.00	18.22	32.00	18.22	V-C	2.6477E+04	-3.200	32.00	
1.000	1.000	50.22	0.000	0.000	Ug5_2_8_L_0						
18 D	10.63	-3.8159E-20	34.00	19.16	34.00	19.16	V-C	2.6477E+04	-3.400	34.00	
1.000	1.000	53.16	0.000	0.000	Ug5_2_8_L_0						
19 D	11.22	-4.2174E-20	36.00	20.11	36.00	20.11	V-C	2.6477E+04	-3.600	36.00	
1.000	1.000	56.11	0.000	0.000	Ug5_2_8_L_0						
20 D	11.81	-4.6119E-20	38.00	21.06	38.00	21.06	V-C	2.6477E+04	-3.800	38.00	
1.000	1.000	59.06	0.000	0.000	Ug5_2_8_L_0						
21 D	12.40	-4.9975E-20	40.00	22.01	40.00	22.01	V-C	2.6477E+04	-4.000	40.00	
1.000	1.000	62.01	0.000	0.000	Ug5_2_8_L_0						
22 D	12.99	-5.3722E-20	42.00	22.96	42.00	22.96	V-C	2.6477E+04	-4.200	42.00	
1.000	1.000	64.96	0.000	0.000	Ug5_2_8_L_0						
23 D	13.58	-5.7344E-20	44.00	23.91	44.00	23.91	V-C	2.6477E+04	-4.400	44.00	
1.000	1.000	67.91	0.000	0.000	Ug5_2_8_L_0						
24 D	14.17	-6.0825E-20	46.00	24.86	46.00	24.86	V-C	2.6477E+04	-4.600	46.00	
1.000	1.000	70.86	0.000	0.000	Ug5_2_8_L_0						
25 D	14.76	-6.4146E-20	48.00	25.81	48.00	25.81	V-C	2.6477E+04	-4.800	48.00	
1.000	1.000	73.81	0.000	0.000	Ug5_2_8_L_0						
26 D	15.35	-6.7287E-20	50.00	26.76	50.00	26.76	V-C	2.6477E+04	-5.000	50.00	
1.000	1.000	76.76	0.000	0.000	Ug5_2_8_L_0						
27 D	15.94	-7.0226E-20	52.00	27.72	52.00	27.72	V-C	2.6477E+04	-5.200	52.00	
1.000	1.000	79.72	0.000	0.000	Ug5_2_8_L_0						
28 D	16.53	-7.2938E-20	54.00	28.67	54.00	28.67	V-C	2.6477E+04	-5.400	54.00	
1.000	1.000	82.67	0.000	0.000	Ug5_2_8_L_0						
29 D	17.12	-7.5403E-20	56.00	29.62	56.00	29.62	V-C	2.6477E+04	-5.600	56.00	
1.000	1.000	85.62	0.000	0.000	Ug5_2_8_L_0						
30 D	17.72	-7.7602E-20	58.00	30.58	58.00	30.58	V-C	2.6477E+04	-5.800	58.00	
1.000	1.000	88.58	0.000	0.000	Ug5_2_8_L_0						
31 D	18.31	-7.9513E-20	60.00	31.54	60.00	31.54	V-C	2.6477E+04	-6.000	60.00	
1.000	1.000	91.54	0.000	0.000	Ug5_2_8_L_0						
32 D	18.90	-8.1129E-20	62.00	32.49	62.00	32.49	V-C	2.6477E+04	-6.200	62.00	
1.000	1.000	94.49	0.000	0.000	Ug5_2_8_L_0						
33 D	19.49	-8.2439E-20	64.00	33.45	64.00	33.45	V-C	2.6477E+04	-6.400	64.00	

1.000	1.000	97.45	0.000	0.000	Ug5_2_8_L_0					
34 D	20.08	-8.3432E-20	66.00	34.41	66.00	34.41	V-C	2.6477E+04	-6.600	66.00
1.000	1.000	100.4	0.000	0.000	Ug5_2_8_L_0					
35 D	20.67	-8.4094E-20	68.00	35.37	68.00	35.37	V-C	2.6477E+04	-6.800	68.00
1.000	1.000	103.4	0.000	0.000	Ug5_2_8_L_0					
36 D	21.27	-8.4406E-20	70.00	36.33	70.00	36.33	V-C	2.6477E+04	-7.000	70.00
1.000	1.000	106.3	0.000	0.000	Ug5_2_8_L_0					
37 D	21.86	-8.4351E-20	72.00	37.30	72.00	37.30	V-C	2.6477E+04	-7.200	72.00
1.000	1.000	109.3	0.000	0.000	Ug5_2_8_L_0					
38 D	22.45	-8.3926E-20	74.00	38.26	74.00	38.26	V-C	2.6477E+04	-7.400	74.00
1.000	1.000	112.3	0.000	0.000	Ug5_2_8_L_0					
39 D	23.04	-8.3142E-20	76.00	39.22	76.00	39.22	V-C	2.6477E+04	-7.600	76.00
1.000	1.000	115.2	0.000	0.000	Ug5_2_8_L_0					
40 D	23.64	-8.2008E-20	78.00	40.19	78.00	40.19	V-C	2.6477E+04	-7.800	78.00
1.000	1.000	118.2	0.000	0.000	Ug5_2_8_L_0					
41 D	24.23	-8.0533E-20	80.00	41.16	80.00	41.16	V-C	2.6477E+04	-8.000	80.00
1.000	1.000	121.2	0.000	0.000	Ug5_2_8_L_0					
42 D	24.82	-7.8722E-20	82.00	42.12	82.00	42.12	V-C	2.6477E+04	-8.200	82.00
1.000	1.000	124.1	0.000	0.000	Ug5_2_8_L_0					
43 D	25.42	-7.6577E-20	84.00	43.09	84.00	43.09	V-C	2.6477E+04	-8.400	84.00
1.000	1.000	127.1	0.000	0.000	Ug5_2_8_L_0					
44 D	26.01	-7.4097E-20	86.00	44.06	86.00	44.06	V-C	2.6477E+04	-8.600	86.00
1.000	1.000	130.1	0.000	0.000	Ug5_2_8_L_0					
45 D	26.61	-7.1282E-20	88.00	45.03	88.00	45.03	V-C	2.6477E+04	-8.800	88.00
1.000	1.000	133.0	0.000	0.000	Ug5_2_8_L_0					
46 D	27.20	-6.8146E-20	90.00	46.00	90.00	46.00	V-C	2.6477E+04	-9.000	90.00
1.000	1.000	136.0	0.000	0.000	Ug5_2_8_L_0					
47 D	27.79	-6.4718E-20	92.00	46.97	92.00	46.97	V-C	2.6477E+04	-9.200	92.00
1.000	1.000	139.0	0.000	0.000	Ug5_2_8_L_0					
48 D	28.39	-6.1027E-20	94.00	47.95	94.00	47.95	V-C	2.6477E+04	-9.400	94.00
1.000	1.000	141.9	0.000	0.000	Ug5_2_8_L_0					
49 D	28.98	-5.7099E-20	96.00	48.92	96.00	48.92	V-C	2.6477E+04	-9.600	96.00
1.000	1.000	144.9	0.000	0.000	Ug5_2_8_L_0					
50 D	29.58	-5.2961E-20	98.00	49.89	98.00	49.89	V-C	2.6477E+04	-9.800	98.00
1.000	1.000	147.9	0.000	0.000	Ug5_2_8_L_0					
51 D	30.17	-4.8631E-20	100.00	50.87	100.00	50.87	V-C	2.6477E+04	-10.000	100.00
1.000	1.000	150.9	0.000	0.000	Ug5_2_8_L_0					
52 D	30.77	-4.4112E-20	102.0	51.84	102.0	51.84	V-C	2.6477E+04	-10.200	102.0
1.000	1.000	153.8	0.000	0.000	Ug5_2_8_L_0					
53 D	31.36	-3.9405E-20	104.0	52.82	104.0	52.82	V-C	2.6477E+04	-10.400	104.0
1.000	1.000	156.8	0.000	0.000	Ug5_2_8_L_0					
54 D	31.96	-3.4508E-20	106.0	53.80	106.0	53.80	V-C	2.6477E+04	-10.600	106.0
1.000	1.000	159.8	0.000	0.000	Ug5_2_8_L_0					
55 D	32.55	-2.9436E-20	108.0	54.77	108.0	54.77	V-C	2.6477E+04	-10.800	108.0
1.000	1.000	162.8	0.000	0.000	Ug5_2_8_L_0					
56 D	33.15	-2.4201E-20	110.0	55.75	110.0	55.75	V-C	2.6477E+04	-11.000	110.0
1.000	1.000	165.8	0.000	0.000	Ug5_2_8_L_0					
57 D	33.75	-1.8819E-20	112.0	56.73	112.0	56.73	V-C	2.6477E+04	-11.200	112.0
1.000	1.000	168.7	0.000	0.000	Ug5_2_8_L_0					
58 D	34.34	-1.3300E-20	114.0	57.71	114.0	57.71	V-C	2.6477E+04	-11.400	114.0
1.000	1.000	171.7	0.000	0.000	Ug5_2_8_L_0					
59 D	34.94	-7.6573E-21	116.0	58.69	116.0	58.69	V-C	2.6477E+04	-11.600	116.0
1.000	1.000	174.7	0.000	0.000	Ug5_2_8_L_0					
60 D	35.53	-1.9018E-21	118.0	59.67	118.0	59.67	V-C	2.6477E+04	-11.800	118.0
1.000	1.000	177.7	0.000	0.000	Ug5_2_8_L_0					
61 D	36.13	3.9556E-21	120.0	60.65	120.0	60.65	V-C	2.6477E+04	-12.000	120.0
1.000	1.000	180.7	0.000	0.000	Ug5_2_8_L_0					
62 D	36.71	9.9041E-21	121.8	61.54	121.8	61.54	V-C	1.9214E+04	-12.200	122.0
1.000	1.000	183.5	0.000	0.000	Ug6_741_743_L_0					
63 D	37.28	1.5933E-20	123.6	62.42	123.6	62.42	V-C	1.9214E+04	-12.400	124.0
1.000	1.000	186.4	0.000	0.000	Ug6_741_743_L_0					
64 D	37.86	2.2038E-20	125.4	63.30	125.4	63.30	V-C	1.9214E+04	-12.600	126.0
1.000	1.000	189.3	0.000	0.000	Ug6_741_743_L_0					
65 D	38.44	2.8240E-20	127.2	64.19	127.2	64.19	V-C	1.9214E+04	-12.800	128.0
1.000	1.000	192.2	0.000	0.000	Ug6_741_743_L_0					
66 D	39.01	3.4570E-20	129.0	65.07	129.0	65.07	V-C	1.9214E+04	-13.000	130.0
1.000	1.000	195.1	0.000	0.000	Ug6_741_743_L_0					
67 D	39.59	4.1055E-20	130.8	65.95	130.8	65.95	V-C	1.9214E+04	-13.200	132.0
1.000	1.000	198.0	0.000	0.000	Ug6_741_743_L_0					
68 D	40.17	4.7714E-20	132.6	66.84	132.6	66.84	V-C	1.9214E+04	-13.400	134.0
1.000	1.000	200.8	0.000	0.000	Ug6_741_743_L_0					
69 D	40.75	5.4542E-20	134.4	67.73	134.4	67.73	V-C	1.9214E+04	-13.600	136.0
1.000	1.000	203.7	0.000	0.000	Ug6_741_743_L_0					
70 D	41.32	6.1523E-20	136.2	68.61	136.2	68.61	V-C	1.9214E+04	-13.800	138.0
1.000	1.000	206.6	0.000	0.000	Ug6_741_743_L_0					
71 D	41.90	6.8640E-20	138.0	69.50	138.0	69.50	V-C	1.9214E+04	-14.000	140.0
1.000	1.000	209.5	0.000	0.000	Ug6_741_743_L_0					
72 D	42.48	7.5876E-20	139.8	70.38	139.8	70.38	V-C	1.9214E+04	-14.200	142.0
1.000	1.000	212.4	0.000	0.000	Ug6_741_743_L_0					
73 D	43.05	8.3212E-20	141.6	71.27	141.6	71.27	V-C	1.9214E+04	-14.400	144.0
1.000	1.000	215.3	0.000	0.000	Ug6_741_743_L_0					
74 D	43.63	9.0627E-20	143.4	72.16	143.4	72.16	V-C	1.9214E+04	-14.600	146.0
1.000	1.000	218.2	0.000	0.000	Ug6_741_743_L_0					
75 D	44.21	9.8099E-20	145.2	73.05	145.2	73.05	V-C	1.9214E+04	-14.800	148.0
1.000	1.000	221.0	0.000	0.000	Ug6_741_743_L_0					
76 D	44.79	1.0560E-19	147.0	73.94	147.0	73.94	V-C	1.9214E+04	-15.000	150.0
1.000	1.000	223.9	0.000	0.000	Ug6_741_743_L_0					
77 D	45.36	1.1311E-19	148.8	74.82	148.8	74.82	V-C	1.9214E+04	-15.200	152.0
1.000	1.000	226.8	0.000	0.000	Ug6_741_743_L_0					
78 D	45.94	1.2061E-19	150.6	75.71	150.6	75.71	V-C	1.9214E+04	-15.400	154.0
1.000	1.000	229.7	0.000	0.000	Ug6_741_743_L_0					

79 D	46.52	1.2809E-19	152.4	76.60	152.4	76.60	V-C	1.9214E+04	-15.60	156.0
1.000	1.000	232.6	0.000	0.000	Ug6_741_743_L_0					
80 D	47.10	1.3556E-19	154.2	77.49	154.2	77.49	V-C	1.9214E+04	-15.80	158.0
1.000	1.000	235.5	0.000	0.000	Ug6_741_743_L_0					
81 D	23.84	1.4304E-19	156.0	78.38	156.0	78.38	V-C	1.9214E+04	-16.00	160.0
1.000	1.000	238.4	0.000	0.000	Ug6_741_743_L_0					

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|                PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
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|                NewProject.BaseDesignSection_28.A2M2R1_1787  |
|                Exe Time :24 May 2018  18:25:48  |
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New Project

STRESS RESULTS FOR GROUP NO. 3

WallElement\_33 :  
ELEMENT TYPE 2 NO.OF ELEMENTS. IN THIS GROUP 80  
CURRENT TIME IS 1.0000

WALL2D ELEMENT

EL	TA	TB	MA	MB
1	-9.09245E-17	9.09245E-17	-4.54384E-28	-1.81849E-17
2	-2.44841E-16	2.44841E-16	1.81849E-17	-6.71531E-17
3	-3.70828E-16	3.70828E-16	6.71531E-17	-1.41319E-16
4	-4.68895E-16	4.68895E-16	1.41319E-16	-2.35098E-16
5	-5.39063E-16	5.39063E-16	2.35098E-16	-3.42910E-16
6	-1.37278E-16	1.37278E-16	3.42910E-16	-3.70366E-16
7	-1.51776E-16	1.51776E-16	3.70366E-16	-4.00721E-16
8	-1.38550E-16	1.38550E-16	4.00721E-16	-4.28431E-16
9	-9.77124E-17	9.77124E-17	4.28431E-16	-4.47974E-16
10	-2.94100E-17	2.94100E-17	4.47974E-16	-4.53856E-16
11	6.61695E-17	-6.61695E-17	4.53856E-16	-4.40622E-16
12	1.88794E-16	-1.88794E-16	4.40622E-16	-4.02863E-16
13	3.38182E-16	-3.38182E-16	4.02863E-16	-3.35227E-16
14	2.29035E-15	-2.29035E-15	3.35227E-16	1.22844E-16
15	2.49220E-15	-2.49220E-15	1.22844E-16	6.21284E-16
16	2.71962E-15	-2.71962E-15	6.21284E-16	1.16521E-15
17	2.97208E-15	-2.97208E-15	1.16521E-15	1.75963E-15
18	3.24899E-15	-3.24899E-15	1.75963E-15	2.40942E-15
19	3.54969E-15	-3.54969E-15	2.40942E-15	3.11936E-15
20	3.87341E-15	-3.87341E-15	3.11936E-15	3.89404E-15
21	2.44298E-15	-2.44298E-15	3.89404E-15	4.38263E-15
22	2.81020E-15	-2.81020E-15	4.38263E-15	4.94467E-15
23	3.19772E-15	-3.19772E-15	4.94467E-15	5.58422E-15
24	3.60449E-15	-3.60449E-15	5.58422E-15	6.30512E-15
25	4.02933E-15	-4.02933E-15	6.30512E-15	7.11098E-15
26	4.47103E-15	-4.47103E-15	7.11098E-15	8.00518E-15
27	3.15191E-15	-3.15191E-15	8.00518E-15	8.63557E-15
28	3.62329E-15	-3.62329E-15	8.63557E-15	9.36022E-15
29	4.10737E-15	-4.10737E-15	9.36022E-15	1.01817E-14
30	1.04988E-15	-1.04988E-15	1.01817E-14	1.03917E-14
31	1.55468E-15	-1.55468E-15	1.03917E-14	1.07026E-14
32	2.06737E-15	-2.06737E-15	1.07026E-14	1.11161E-14
33	2.58627E-15	-2.58627E-15	1.11161E-14	1.16333E-14
34	3.10960E-15	-3.10960E-15	1.16333E-14	1.22553E-14
35	3.63556E-15	-3.63556E-15	1.22553E-14	1.29824E-14
36	6.09613E-16	-6.09613E-16	1.29824E-14	1.31043E-14
37	-2.41740E-15	2.41740E-15	-1.31043E-14	1.26208E-14
38	-1.89466E-15	1.89466E-15	-1.26208E-14	1.22419E-14
39	-1.37677E-15	1.37677E-15	-1.22419E-14	1.19665E-14
40	-8.65641E-16	8.65641E-16	-1.19665E-14	1.17934E-14
41	-3.63176E-16	3.63176E-16	-1.17934E-14	1.17208E-14
42	1.28727E-16	-1.28727E-16	1.17208E-14	1.17465E-14
43	6.08185E-16	-6.08185E-16	1.17465E-14	1.18681E-14
44	-2.47938E-15	2.47938E-15	-1.18681E-14	1.13723E-14
45	-5.58308E-15	5.58308E-15	-1.13723E-14	1.02557E-14
46	-5.15200E-15	5.15200E-15	-1.02557E-14	9.22525E-15
47	-4.74062E-15	4.74062E-15	-9.22525E-15	8.27713E-15
48	-4.35065E-15	4.35065E-15	-8.27713E-15	7.40700E-15
49	-3.98376E-15	3.98376E-15	-7.40700E-15	6.61025E-15
50	-8.88412E-17	8.88412E-17	-6.61025E-15	6.59248E-15
51	2.27113E-16	-2.27113E-16	6.59248E-15	6.63791E-15
52	5.15321E-16	-5.15321E-16	6.63791E-15	6.74097E-15
53	-2.77837E-15	2.77837E-15	-6.74097E-15	6.18529E-15
54	-2.54990E-15	2.54990E-15	-6.18529E-15	5.67531E-15
55	-2.35331E-15	2.35331E-15	-5.67531E-15	5.20465E-15
56	-2.18982E-15	2.18982E-15	-5.20465E-15	4.76669E-15
57	-2.06064E-15	2.06064E-15	-4.76669E-15	4.35456E-15
58	-1.96686E-15	1.96686E-15	-4.35456E-15	3.96119E-15
59	-1.90954E-15	1.90954E-15	-3.96119E-15	3.57928E-15
60	-1.88966E-15	1.88966E-15	-3.57928E-15	3.20135E-15
61	-1.90814E-15	1.90814E-15	-3.20135E-15	2.81972E-15
62	-1.94192E-15	1.94192E-15	-2.81972E-15	2.43134E-15
63	5.10630E-15	-5.10630E-15	2.43134E-15	3.45259E-15
64	5.02523E-15	-5.02523E-15	3.45259E-15	4.45764E-15
65	4.91992E-15	-4.91992E-15	4.45764E-15	5.44162E-15
66	4.79000E-15	-4.79000E-15	5.44162E-15	6.39962E-15
67	-2.47029E-15	2.47029E-15	-6.39962E-15	5.90557E-15
68	-2.65037E-15	2.65037E-15	-5.90557E-15	5.37549E-15
69	-2.85594E-15	2.85594E-15	-5.37549E-15	4.80430E-15

70-3.08722E-15 3.08722E-15-4.80430E-15 4.18686E-15  
71-3.34441E-15 3.34441E-15-4.18686E-15 3.51798E-15  
72-3.62768E-15 3.62768E-15-3.51798E-15 2.79244E-15  
73-3.93717E-15 3.93717E-15-2.79244E-15 2.00501E-15  
74-4.27300E-15 4.27300E-15-2.00501E-15 1.15041E-15  
75-4.63524E-15 4.63524E-15-1.15041E-15 2.23360E-16  
76-5.02398E-15 5.02398E-15-2.23360E-16-7.81436E-16  
77 1.66616E-15-1.66616E-15 7.81436E-16-4.48204E-16  
78 1.22431E-15-1.22431E-15 4.48204E-16-2.03341E-16  
79 7.55868E-16-7.55868E-16 2.03341E-16-5.21675E-17  
80 2.60824E-16-2.60824E-16 5.21675E-17-2.01948E-27

ITER 0 RNORM = 0.000 RMNORM= 0.000  
RINORM=0.1136E+06 RIMNOR=0.7113E-26  
RENORM= 304.5 REMNOR=0.2362E-51 RATIO =0.5177E-01 TOLER =0.1000E-03 NOT CONVERGED  
RFMAX = 46.59 RMMAX =0.1310E-13  
RTSMAL=0.1000E-03 RMSMAL=0.1000E-18  
RDT =0.1136E+06 RDR =0.1000E-18  
RATIOT=0.5177E-01 RATIO= 0.000  
MAX UN= 3.435 IEQ= 11 NODE 6 DOF 1 Y-DISPL.F  
MIN UN=-.4443E-26 IEQ= 142 NODE 71 DOF 2 X-ROT. F  
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 2 RNORM = 0.000 RMNORM= 0.000  
RINORM=0.1136E+06 RIMNOR=0.7113E-26  
RENORM= 14.72 REMNOR=0.4094E-21 RATIO =0.1138E-01 TOLER =0.1000E-03 NOT CONVERGED  
RFMAX = 46.59 RMMAX =0.1310E-13  
RTSMAL=0.1000E-03 RMSMAL=0.1000E-18  
RDT =0.1136E+06 RDR =0.1000E-18  
RATIOT=0.1138E-01 RATIO= 0.000  
MAX UN= 1.616 IEQ= 3 NODE 2 DOF 1 Y-DISPL.F  
MIN UN=-.3449E-10 IEQ= 159 NODE 80 DOF 1 Y-DISPL.F  
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 3 RNORM = 0.000 RMNORM= 0.000  
RINORM=0.1136E+06 RIMNOR=0.7113E-26  
RENORM= 9.817 REMNOR=0.1077E-20 RATIO =0.9296E-02 TOLER =0.1000E-03 NOT CONVERGED  
RFMAX = 46.59 RMMAX =0.1310E-13  
RTSMAL=0.1000E-03 RMSMAL=0.1000E-18  
RDT =0.1136E+06 RDR =0.1000E-18  
RATIOT=0.9296E-02 RATIO= 0.000  
MAX UN= 1.896 IEQ= 35 NODE 18 DOF 1 Y-DISPL.F  
MIN UN=-.2447E-09 IEQ= 15 NODE 8 DOF 1 Y-DISPL.F  
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 4 RNORM = 0.000 RMNORM= 0.000  
RINORM=0.1136E+06 RIMNOR=0.7113E-26  
RENORM=0.1806 REMNOR=0.3299E-21 RATIO =0.1261E-02 TOLER =0.1000E-03 NOT CONVERGED  
RFMAX = 46.59 RMMAX =0.1310E-13  
RTSMAL=0.1000E-03 RMSMAL=0.1000E-18  
RDT =0.1136E+06 RDR =0.1000E-18  
RATIOT=0.1261E-02 RATIO= 0.000  
MAX UN=0.3817 IEQ= 51 NODE 26 DOF 1 Y-DISPL.F  
MIN UN=-.1656E-09 IEQ= 13 NODE 7 DOF 1 Y-DISPL.F  
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 5 RNORM = 0.000 RMNORM= 0.000  
RINORM=0.1136E+06 RIMNOR=0.7113E-26  
RENORM=0.2560E-04 REMNOR=0.3148E-21 RATIO =0.1501E-04 TOLER =0.1000E-03 CONVERGED !  
RFMAX = 46.59 RMMAX =0.1310E-13  
RTSMAL=0.1000E-03 RMSMAL=0.1000E-18  
RDT =0.1136E+06 RDR =0.1000E-18  
RATIOT=0.1501E-04 RATIO= 0.000  
MAX UN=0.5060E-02 IEQ= 73 NODE 37 DOF 1 Y-DISPL.F  
MIN UN=-.1349E-09 IEQ= 11 NODE 6 DOF 1 Y-DISPL.F  
NO. OF CONTACT CONSTRAINT VIOLATIONS 0



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|                PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
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New Project
SOLUTION REACHED USING      5 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   2   ( AT TIME  2.000   )

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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	4.2370625E-04	-7.8480341E-05	
2	4.0801018E-04	-7.8480341E-05	
3	3.9231461E-04	-7.8472946E-05	
4	3.7662298E-04	-7.8435925E-05	
5	3.6094469E-04	-7.8332098E-05	
6	3.4529808E-04	-7.8109232E-05	
7	3.2971343E-04	-7.7699974E-05	
8	3.1423394E-04	-7.7052934E-05	
9	2.9890859E-04	-7.6160778E-05	
10	2.8378509E-04	-7.5036698E-05	
11	2.6890849E-04	-7.3694042E-05	
12	2.5432115E-04	-7.2146257E-05	
13	2.4006277E-04	-7.0406690E-05	
14	2.2617036E-04	-6.8488776E-05	
15	2.1267824E-04	-6.6406089E-05	
16	1.9961800E-04	-6.4172252E-05	
17	1.8701844E-04	-6.1801011E-05	
18	1.7490576E-04	-5.9306472E-05	
19	1.6330311E-04	-5.6703110E-05	
20	1.5223078E-04	-5.4005793E-05	
21	1.4170607E-04	-5.1229976E-05	
22	1.3174300E-04	-4.8391731E-05	
23	1.2235243E-04	-4.5507840E-05	
24	1.1354173E-04	-4.2595915E-05	
25	1.0531469E-04	-3.9674510E-05	
26	9.7671260E-05	-3.6763144E-05	
27	9.0607427E-05	-3.3882411E-05	
28	8.4114837E-05	-3.1054097E-05	
29	7.8180788E-05	-2.8300788E-05	
30	7.2788163E-05	-2.5642861E-05	
31	6.7916215E-05	-2.3096354E-05	
32	6.3541404E-05	-2.0673432E-05	
33	5.9638047E-05	-1.8382780E-05	
34	5.6179095E-05	-1.6230089E-05	
35	5.3136611E-05	-1.4218400E-05	
36	5.0482283E-05	-1.2348487E-05	
37	4.8187852E-05	-1.0619209E-05	
38	4.6225415E-05	-9.0278713E-06	
39	4.4567783E-05	-7.5703340E-06	
40	4.3188736E-05	-6.2409825E-06	
41	4.2063294E-05	-5.0330678E-06	
42	4.1167918E-05	-3.9390071E-06	
43	4.0480644E-05	-2.9506567E-06	
44	3.9981172E-05	-2.0595569E-06	
45	3.9650910E-05	-1.2571559E-06	
46	3.9472963E-05	-5.3499053E-07	
47	3.9432109E-05	1.1511431E-07	
48	3.9514721E-05	7.0090676E-07	
49	3.9708663E-05	1.2295657E-06	
50	4.0003169E-05	1.7075763E-06	
51	4.0388695E-05	2.1406315E-06	
52	4.0856757E-05	2.5335314E-06	
53	4.1399666E-05	2.8900535E-06	
54	4.2010513E-05	3.2130045E-06	
55	4.2682738E-05	3.5040074E-06	
56	4.3410017E-05	3.7635272E-06	
57	4.4185999E-05	3.9908027E-06	
58	4.5004053E-05	4.1838029E-06	
59	4.5857013E-05	4.3391909E-06	
60	4.6736911E-05	4.4522948E-06	
61	4.7634710E-05	4.5170852E-06	
62	4.8540031E-05	4.5261609E-06	
63	4.9441594E-05	4.4815352E-06	
64	5.0329837E-05	4.3947868E-06	
65	5.1197401E-05	4.2764234E-06	
66	5.2038928E-05	4.1358936E-06	
67	5.2850841E-05	3.9816031E-06	
68	5.3631144E-05	3.8209330E-06	
69	5.4379215E-05	3.6602617E-06	
70	5.5095608E-05	3.5049857E-06	
71	5.5781864E-05	3.3595424E-06	
72	5.6440314E-05	3.2274303E-06	
73	5.7073897E-05	3.1112296E-06	

74	5.7685979E-05	3.0126195E-06
75	5.8280171E-05	2.9323944E-06
76	5.8860157E-05	2.8704776E-06
77	5.9429520E-05	2.8259315E-06
78	5.9991568E-05	2.7969671E-06
79	6.0549170E-05	2.7809493E-06
80	6.1104579E-05	2.7744017E-06
81	6.1659302E-05	2.7730082E-06

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|                PARATIEPLUS(TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION *Build date:Jul 11, 2017*                |
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|                NewProject.BaseDesignSection_28.A2M2R1_1787                                                                              |
|                Exe Time :24 May 2018      18:25:48                                                                                          |
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New Project

STRESS RESULTS FOR GROUP NO. 1

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ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 81  
CURRENT TIME IS 2.0000

HARDENING 2D SOIL ELEMENT

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

EL * FACTOR	FORCE UFACOR	DISPL-Y Peq	VERTICAL-P Su_a	HORIZON.-P Su_p	MAX-V-P LAYER	MAX-H-P	STATE	STIFFNESS	Z-LEVEL	PORE	E
1 D	0.000	-4.2371E-04	0.000	0.000	0.000	0.000	ACTIVE	0.000	0.000	0.000	
1.000	1.000	0.000	0.000	0.000	Ug5_2_8_L_0						
2 D	0.5195	-4.0801E-04	2.075	0.6619	2.075	1.774	ACTIVE	0.000	-0.2000	1.935	
1.000	1.000	2.597	0.000	0.000	Ug5_2_8_L_0						
3 D	1.042	-3.9231E-04	4.203	1.341	4.203	3.436	ACTIVE	0.000	-0.4000	3.871	
1.000	1.000	5.212	0.000	0.000	Ug5_2_8_L_0						
4 D	1.570	-3.7662E-04	6.399	2.041	6.399	4.933	ACTIVE	0.000	-0.6000	5.806	
1.000	1.000	7.848	0.000	0.000	Ug5_2_8_L_0						
5 D	2.100	-3.6094E-04	8.644	2.758	8.644	6.275	ACTIVE	0.000	-0.8000	7.742	
1.000	1.000	10.50	0.000	0.000	Ug5_2_8_L_0						
6 D	2.632	-3.4530E-04	10.91	3.481	10.91	7.498	ACTIVE	0.000	-1.000	9.677	
1.000	1.000	13.16	0.000	0.000	Ug5_2_8_L_0						
7 D	3.164	-3.2971E-04	13.18	4.205	13.18	8.636	ACTIVE	0.000	-1.200	11.61	
1.000	1.000	15.82	0.000	0.000	Ug5_2_8_L_0						
8 D	3.704	-3.1423E-04	15.59	4.973	15.59	9.720	ACTIVE	0.000	-1.400	13.55	
1.000	1.000	18.52	0.000	0.000	Ug5_2_8_L_0						
9 D	4.248	-2.9891E-04	18.04	5.756	18.04	10.77	ACTIVE	0.000	-1.600	15.48	
1.000	1.000	21.24	0.000	0.000	Ug5_2_8_L_0						
10 D	4.774	-2.8379E-04	20.22	6.451	20.22	11.79	ACTIVE	0.000	-1.800	17.42	
1.000	1.000	23.87	0.000	0.000	Ug5_2_8_L_0						
11 D	5.311	-2.6891E-04	22.58	7.201	22.58	12.80	ACTIVE	0.000	-2.000	19.35	
1.000	1.000	26.56	0.000	0.000	Ug5_2_8_L_0						
12 D	5.845	-2.5432E-04	24.88	7.937	24.88	13.80	ACTIVE	0.000	-2.200	21.29	
1.000	1.000	29.23	0.000	0.000	Ug5_2_8_L_0						
13 D	6.368	-2.4006E-04	27.00	8.612	27.00	14.79	ACTIVE	0.000	-2.400	23.23	
1.000	1.000	31.84	0.000	0.000	Ug5_2_8_L_0						
14 D	6.899	-2.2617E-04	29.25	9.331	29.25	15.78	ACTIVE	0.000	-2.600	25.16	
1.000	1.000	34.49	0.000	0.000	Ug5_2_8_L_0						
15 D	7.428	-2.1268E-04	31.48	10.04	31.48	16.77	ACTIVE	0.000	-2.800	27.10	
1.000	1.000	37.14	0.000	0.000	Ug5_2_8_L_0						
16 D	7.956	-1.9962E-04	33.69	10.75	33.69	17.75	ACTIVE	0.000	-3.000	29.03	
1.000	1.000	39.78	0.000	0.000	Ug5_2_8_L_0						
17 D	8.476	-1.8702E-04	35.77	11.41	35.77	18.73	ACTIVE	0.000	-3.200	30.97	
1.000	1.000	42.38	0.000	0.000	Ug5_2_8_L_0						
18 D	9.002	-1.7491E-04	37.96	12.11	37.96	19.71	ACTIVE	0.000	-3.400	32.90	
1.000	1.000	45.01	0.000	0.000	Ug5_2_8_L_0						
19 D	9.528	-1.6330E-04	40.13	12.80	40.13	20.69	ACTIVE	0.000	-3.600	34.84	
1.000	1.000	47.64	0.000	0.000	Ug5_2_8_L_0						
20 D	10.05	-1.5223E-04	42.20	13.46	42.20	21.67	ACTIVE	0.000	-3.800	36.77	
1.000	1.000	50.24	0.000	0.000	Ug5_2_8_L_0						
21 D	10.57	-1.4171E-04	44.36	14.15	44.36	22.66	ACTIVE	0.000	-4.000	38.71	
1.000	1.000	52.86	0.000	0.000	Ug5_2_8_L_0						
22 D	11.10	-1.3174E-04	46.51	14.84	46.51	23.64	ACTIVE	0.000	-4.200	40.65	
1.000	1.000	55.48	0.000	0.000	Ug5_2_8_L_0						
23 D	11.62	-1.2235E-04	48.57	15.49	48.57	24.62	ACTIVE	0.000	-4.400	42.58	
1.000	1.000	58.08	0.000	0.000	Ug5_2_8_L_0						
24 D	12.14	-1.1354E-04	50.71	16.18	50.71	25.60	ACTIVE	0.000	-4.600	44.52	
1.000	1.000	60.69	0.000	0.000	Ug5_2_8_L_0						
25 D	12.66	-1.0531E-04	52.85	16.86	52.85	26.59	ACTIVE	0.000	-4.800	46.45	
1.000	1.000	63.31	0.000	0.000	Ug5_2_8_L_0						
26 D	13.19	-9.7671E-05	54.98	17.54	54.98	27.57	ACTIVE	0.000	-5.000	48.39	
1.000	1.000	65.93	0.000	0.000	Ug5_2_8_L_0						
27 D	13.70	-9.0607E-05	57.03	18.19	57.03	28.55	ACTIVE	0.000	-5.200	50.32	
1.000	1.000	68.52	0.000	0.000	Ug5_2_8_L_0						
28 D	14.27	-8.4115E-05	59.16	19.07	59.16	29.54	UL-RL	1.2448E+05	-5.400	52.26	
1.000	1.000	71.33	0.000	0.000	Ug5_2_8_L_0						
29 D	15.00	-7.8181E-05	61.28	20.80	61.28	30.53	UL-RL	1.2448E+05	-5.600	54.19	
1.000	1.000	74.99	0.000	0.000	Ug5_2_8_L_0						
30 D	15.72	-7.2788E-05	63.33	22.45	63.33	31.52	UL-RL	1.2448E+05	-5.800	56.13	
1.000	1.000	78.58	0.000	0.000	Ug5_2_8_L_0						
31 D	16.42	-6.7916E-05	65.44	24.05	65.44	32.50	UL-RL	1.2448E+05	-6.000	58.06	
1.000	1.000	82.11	0.000	0.000	Ug5_2_8_L_0						
32 D	17.12	-6.3541E-05	67.56	25.58	67.56	33.49	UL-RL	1.2448E+05	-6.200	60.00	
1.000	1.000	85.58	0.000	0.000	Ug5_2_8_L_0						
33 D	17.80	-5.9638E-05	69.61	27.06	69.61	34.49	UL-RL	1.2448E+05	-6.400	61.94	

1.000	1.000	89.00	0.000	0.000	Ug5_2_8_L_0					
34 D	18.47	-5.6179E-05	71.72	28.48	71.72	35.48	UL-RL	1.2448E+05	-6.600	63.87
1.000	1.000	92.35	0.000	0.000	Ug5_2_8_L_0					
35 D	19.13	-5.3137E-05	73.82	29.86	73.82	36.47	UL-RL	1.2448E+05	-6.800	65.81
1.000	1.000	95.66	0.000	0.000	Ug5_2_8_L_0					
36 D	19.78	-5.0482E-05	75.93	31.18	75.93	37.46	UL-RL	1.2448E+05	-7.000	67.74
1.000	1.000	98.92	0.000	0.000	Ug5_2_8_L_0					
37 D	20.43	-4.8188E-05	77.98	32.46	77.98	38.46	UL-RL	1.2448E+05	-7.200	69.68
1.000	1.000	102.1	0.000	0.000	Ug5_2_8_L_0					
38 D	21.06	-4.6225E-05	80.08	33.70	80.08	39.45	UL-RL	1.2448E+05	-7.400	71.61
1.000	1.000	105.3	0.000	0.000	Ug5_2_8_L_0					
39 D	21.69	-4.4568E-05	82.18	34.90	82.18	40.45	UL-RL	1.2448E+05	-7.600	73.55
1.000	1.000	108.5	0.000	0.000	Ug5_2_8_L_0					
40 D	22.31	-4.3189E-05	84.22	36.07	84.22	41.45	UL-RL	1.2448E+05	-7.800	75.48
1.000	1.000	111.6	0.000	0.000	Ug5_2_8_L_0					
41 D	22.93	-4.2063E-05	86.32	37.21	86.32	42.45	UL-RL	1.2448E+05	-8.000	77.42
1.000	1.000	114.6	0.000	0.000	Ug5_2_8_L_0					
42 D	23.54	-4.1168E-05	88.42	38.32	88.42	43.45	UL-RL	1.2448E+05	-8.200	79.35
1.000	1.000	117.7	0.000	0.000	Ug5_2_8_L_0					
43 D	24.14	-4.0481E-05	90.47	39.41	90.47	44.45	UL-RL	1.2448E+05	-8.400	81.29
1.000	1.000	120.7	0.000	0.000	Ug5_2_8_L_0					
44 D	24.74	-3.9981E-05	92.56	40.47	92.56	45.45	UL-RL	1.2448E+05	-8.600	83.23
1.000	1.000	123.7	0.000	0.000	Ug5_2_8_L_0					
45 D	25.34	-3.9651E-05	94.65	41.51	94.65	46.45	UL-RL	1.2448E+05	-8.800	85.16
1.000	1.000	126.7	0.000	0.000	Ug5_2_8_L_0					
46 D	25.93	-3.9473E-05	96.75	42.54	96.75	47.45	UL-RL	1.2448E+05	-9.000	87.10
1.000	1.000	129.6	0.000	0.000	Ug5_2_8_L_0					
47 D	26.52	-3.9432E-05	98.79	43.55	98.79	48.46	UL-RL	1.2448E+05	-9.200	89.03
1.000	1.000	132.6	0.000	0.000	Ug5_2_8_L_0					
48 D	27.10	-3.9515E-05	100.9	44.54	100.9	49.46	UL-RL	1.2448E+05	-9.400	90.97
1.000	1.000	135.5	0.000	0.000	Ug5_2_8_L_0					
49 D	27.69	-3.9709E-05	103.0	45.52	103.0	50.47	UL-RL	1.2448E+05	-9.600	92.90
1.000	1.000	138.4	0.000	0.000	Ug5_2_8_L_0					
50 D	28.27	-4.0003E-05	105.0	46.49	105.0	51.47	UL-RL	1.2448E+05	-9.800	94.84
1.000	1.000	141.3	0.000	0.000	Ug5_2_8_L_0					
51 D	28.85	-4.0389E-05	107.1	47.45	107.1	52.48	UL-RL	1.2448E+05	-10.000	96.77
1.000	1.000	144.2	0.000	0.000	Ug5_2_8_L_0					
52 D	29.42	-4.0857E-05	109.2	48.40	109.2	53.49	UL-RL	1.2448E+05	-10.200	98.71
1.000	1.000	147.1	0.000	0.000	Ug5_2_8_L_0					
53 D	30.00	-4.1400E-05	111.2	49.34	111.2	54.50	UL-RL	1.2448E+05	-10.400	100.6
1.000	1.000	150.0	0.000	0.000	Ug5_2_8_L_0					
54 D	30.57	-4.2011E-05	113.3	50.28	113.3	55.51	UL-RL	1.2448E+05	-10.600	102.6
1.000	1.000	152.9	0.000	0.000	Ug5_2_8_L_0					
55 D	31.14	-4.2683E-05	115.4	51.20	115.4	56.52	UL-RL	1.2448E+05	-10.800	104.5
1.000	1.000	155.7	0.000	0.000	Ug5_2_8_L_0					
56 D	31.71	-4.3410E-05	117.5	52.12	117.5	57.53	UL-RL	1.2448E+05	-11.000	106.5
1.000	1.000	158.6	0.000	0.000	Ug5_2_8_L_0					
57 D	32.29	-4.4186E-05	119.6	53.04	119.6	58.54	UL-RL	1.2448E+05	-11.200	108.4
1.000	1.000	161.4	0.000	0.000	Ug5_2_8_L_0					
58 D	32.85	-4.5004E-05	121.6	53.95	121.6	59.55	UL-RL	1.2448E+05	-11.400	110.3
1.000	1.000	164.3	0.000	0.000	Ug5_2_8_L_0					
59 D	33.42	-4.5857E-05	123.7	54.85	123.7	60.56	UL-RL	1.2448E+05	-11.600	112.3
1.000	1.000	167.1	0.000	0.000	Ug5_2_8_L_0					
60 D	33.99	-4.6737E-05	125.8	55.76	125.8	61.58	UL-RL	1.2448E+05	-11.800	114.2
1.000	1.000	170.0	0.000	0.000	Ug5_2_8_L_0					
61 D	34.56	-4.7635E-05	127.9	56.66	127.9	62.59	UL-RL	1.2448E+05	-12.000	116.1
1.000	1.000	172.8	0.000	0.000	Ug5_2_8_L_0					
62 D	35.71	-4.8540E-05	129.7	60.51	129.7	63.50	UL-RL	6.1752E+04	-12.200	118.1
1.000	1.000	178.6	0.000	0.000	Ug6_741_743_L_0					
63 D	36.27	-4.9442E-05	131.6	61.37	131.6	64.42	UL-RL	6.1752E+04	-12.400	120.0
1.000	1.000	181.4	0.000	0.000	Ug6_741_743_L_0					
64 D	36.83	-5.0330E-05	133.5	62.23	133.5	65.33	UL-RL	6.1752E+04	-12.600	121.9
1.000	1.000	184.2	0.000	0.000	Ug6_741_743_L_0					
65 D	37.39	-5.1197E-05	135.3	63.09	135.3	66.25	UL-RL	6.1752E+04	-12.800	123.9
1.000	1.000	187.0	0.000	0.000	Ug6_741_743_L_0					
66 D	37.95	-5.2039E-05	137.1	63.95	137.1	67.17	UL-RL	6.1752E+04	-13.000	125.8
1.000	1.000	189.8	0.000	0.000	Ug6_741_743_L_0					
67 D	38.51	-5.2851E-05	139.0	64.82	139.0	68.08	UL-RL	6.1752E+04	-13.200	127.7
1.000	1.000	192.6	0.000	0.000	Ug6_741_743_L_0					
68 D	39.07	-5.3631E-05	140.8	65.69	140.8	69.00	UL-RL	6.1752E+04	-13.400	129.7
1.000	1.000	195.4	0.000	0.000	Ug6_741_743_L_0					
69 D	39.63	-5.4379E-05	142.6	66.56	142.6	69.92	UL-RL	6.1752E+04	-13.600	131.6
1.000	1.000	198.2	0.000	0.000	Ug6_741_743_L_0					
70 D	40.20	-5.5096E-05	144.4	67.43	144.4	70.84	UL-RL	6.1752E+04	-13.800	133.5
1.000	1.000	201.0	0.000	0.000	Ug6_741_743_L_0					
71 D	40.76	-5.5782E-05	146.3	68.31	146.3	71.76	UL-RL	6.1752E+04	-14.000	135.5
1.000	1.000	203.8	0.000	0.000	Ug6_741_743_L_0					
72 D	41.32	-5.6440E-05	148.1	69.19	148.1	72.68	UL-RL	6.1752E+04	-14.200	137.4
1.000	1.000	206.6	0.000	0.000	Ug6_741_743_L_0					
73 D	41.88	-5.7074E-05	149.9	70.07	149.9	73.59	UL-RL	6.1752E+04	-14.400	139.4
1.000	1.000	209.4	0.000	0.000	Ug6_741_743_L_0					
74 D	42.45	-5.7686E-05	151.7	70.95	151.7	74.51	UL-RL	6.1752E+04	-14.600	141.3
1.000	1.000	212.2	0.000	0.000	Ug6_741_743_L_0					
75 D	43.01	-5.8280E-05	153.6	71.84	153.6	75.43	UL-RL	6.1752E+04	-14.800	143.2
1.000	1.000	215.1	0.000	0.000	Ug6_741_743_L_0					
76 D	43.58	-5.8860E-05	155.4	72.72	155.4	76.36	UL-RL	6.1752E+04	-15.000	145.2
1.000	1.000	217.9	0.000	0.000	Ug6_741_743_L_0					
77 D	44.14	-5.9430E-05	157.2	73.61	157.2	77.28	UL-RL	6.1752E+04	-15.200	147.1
1.000	1.000	220.7	0.000	0.000	Ug6_741_743_L_0					
78 D	44.71	-5.9992E-05	159.1	74.49	159.1	78.20	UL-RL	6.1752E+04	-15.400	149.0
1.000	1.000	223.5	0.000	0.000	Ug6_741_743_L_0					

79 D	45.27	-6.0549E-05	160.9	75.38	160.9	79.12	UL-RL	6.1752E+04	-15.60	151.0
1.000	1.000	226.3	0.000	0.000	Ug6_741_743_L_0					
80 D	45.83	-6.1105E-05	162.7	76.27	162.7	80.04	UL-RL	6.1752E+04	-15.80	152.9
1.000	1.000	229.2	0.000	0.000	Ug6_741_743_L_0					
81 D	23.20	-6.1659E-05	164.6	77.16	164.6	80.96	UL-RL	6.1752E+04	-16.00	154.8
1.000	1.000	232.0	0.000	0.000	Ug6_741_743_L_0					

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|                PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*                |
|                                                                                                                                            |
|                                                                                                                                            |
|                NewProject.BaseDesignSection_28.A2M2R1_1787                                                                              |
|                Exe Time :24 May 2018      18:25:48                                                                              |
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New Project

STRESS RESULTS FOR GROUP NO. 2

0\_R :  
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 81  
CURRENT TIME IS 2.0000

HARDENING 2D SOIL ELEMENT

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

EL * FACTOR	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
1	0.000	--	--	--	--	--	REMOVED	--	0.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
2	0.000	--	--	--	--	--	REMOVED	--	-0.2000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
3	0.000	--	--	--	--	--	REMOVED	--	-0.4000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
4	0.000	--	--	--	--	--	REMOVED	--	-0.6000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
5	0.000	--	--	--	--	--	REMOVED	--	-0.8000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
6 D	0.000	3.4530E-04	0.000	0.000	10.00	7.336	PASSIVE	0.000	-1.000	0.000	
1.000	1.000	0.000	0.000	0.000	Ug5_2_8_L_0						
7 D	2.185	3.2971E-04	1.935	8.861	12.00	8.861	PASSIVE	0.000	-1.200	2.065	
1.000	1.000	10.93	0.000	0.000	Ug5_2_8_L_0						
8 D	4.167	3.1423E-04	3.871	16.71	14.00	16.71	V-C	2.6477E+04	-1.400	4.129	
1.000	1.000	20.84	0.000	0.000	Ug5_2_8_L_0						
9 D	4.712	2.9891E-04	5.806	17.36	16.00	17.36	V-C	2.6477E+04	-1.600	6.194	
1.000	1.000	23.56	0.000	0.000	Ug5_2_8_L_0						
10 D	5.248	2.8379E-04	7.742	17.98	18.00	17.98	V-C	2.6477E+04	-1.800	8.258	
1.000	1.000	26.24	0.000	0.000	Ug5_2_8_L_0						
11 D	5.782	2.6891E-04	9.677	18.58	20.00	18.58	V-C	2.6477E+04	-2.000	10.32	
1.000	1.000	28.91	0.000	0.000	Ug5_2_8_L_0						
12 D	6.313	2.5432E-04	11.61	19.18	22.00	19.18	V-C	2.6477E+04	-2.200	12.39	
1.000	1.000	31.56	0.000	0.000	Ug5_2_8_L_0						
13 D	6.844	2.4006E-04	13.55	19.77	24.00	19.77	V-C	2.6477E+04	-2.400	14.45	
1.000	1.000	34.22	0.000	0.000	Ug5_2_8_L_0						
14 D	7.376	2.2617E-04	15.48	20.36	26.00	20.36	V-C	2.6477E+04	-2.600	16.52	
1.000	1.000	36.88	0.000	0.000	Ug5_2_8_L_0						
15 D	7.908	2.1268E-04	17.42	20.96	28.00	20.96	V-C	2.6477E+04	-2.800	18.58	
1.000	1.000	39.54	0.000	0.000	Ug5_2_8_L_0						
16 D	8.442	1.9962E-04	19.35	21.57	30.00	21.57	V-C	2.6477E+04	-3.000	20.65	
1.000	1.000	42.21	0.000	0.000	Ug5_2_8_L_0						
17 D	8.979	1.8702E-04	21.29	22.18	32.00	22.18	V-C	2.6477E+04	-3.200	22.71	
1.000	1.000	44.89	0.000	0.000	Ug5_2_8_L_0						
18 D	9.517	1.7491E-04	23.23	22.81	34.00	22.81	V-C	2.6477E+04	-3.400	24.77	
1.000	1.000	47.59	0.000	0.000	Ug5_2_8_L_0						
19 D	10.06	1.6330E-04	25.16	23.45	36.00	23.45	V-C	2.6477E+04	-3.600	26.84	
1.000	1.000	50.29	0.000	0.000	Ug5_2_8_L_0						
20 D	10.60	1.5223E-04	27.10	24.11	38.00	24.11	V-C	2.6477E+04	-3.800	28.90	
1.000	1.000	53.01	0.000	0.000	Ug5_2_8_L_0						
21 D	11.15	1.4171E-04	29.03	24.78	40.00	24.78	V-C	2.6477E+04	-4.000	30.97	
1.000	1.000	55.74	0.000	0.000	Ug5_2_8_L_0						
22 D	11.70	1.3174E-04	30.97	25.46	42.00	25.46	V-C	2.6477E+04	-4.200	33.03	
1.000	1.000	58.49	0.000	0.000	Ug5_2_8_L_0						
23 D	12.25	1.2235E-04	32.90	26.16	44.00	26.16	V-C	2.6477E+04	-4.400	35.10	
1.000	1.000	61.25	0.000	0.000	Ug5_2_8_L_0						
24 D	12.81	1.1354E-04	34.84	26.87	46.00	26.87	V-C	2.6477E+04	-4.600	37.16	
1.000	1.000	64.03	0.000	0.000	Ug5_2_8_L_0						
25 D	13.37	1.0531E-04	36.77	27.60	48.00	27.60	V-C	2.6477E+04	-4.800	39.23	
1.000	1.000	66.83	0.000	0.000	Ug5_2_8_L_0						
26 D	13.93	9.7671E-05	38.71	28.35	50.00	28.35	V-C	2.6477E+04	-5.000	41.29	
1.000	1.000	69.64	0.000	0.000	Ug5_2_8_L_0						
27 D	14.49	9.0607E-05	40.65	29.11	52.00	29.11	V-C	2.6477E+04	-5.200	43.35	
1.000	1.000	72.47	0.000	0.000	Ug5_2_8_L_0						
28 D	15.06	8.4115E-05	42.58	29.89	54.00	29.89	V-C	2.6477E+04	-5.400	45.42	
1.000	1.000	75.31	0.000	0.000	Ug5_2_8_L_0						
29 D	15.63	7.8181E-05	44.52	30.68	56.00	30.68	V-C	2.6477E+04	-5.600	47.48	
1.000	1.000	78.17	0.000	0.000	Ug5_2_8_L_0						
30 D	16.21	7.2788E-05	46.45	31.49	58.00	31.49	V-C	2.6477E+04	-5.800	49.55	
1.000	1.000	81.04	0.000	0.000	Ug5_2_8_L_0						
31 D	16.79	6.7916E-05	48.39	32.32	60.00	32.32	V-C	2.6477E+04	-6.000	51.61	
1.000	1.000	83.93	0.000	0.000	Ug5_2_8_L_0						
32 D	17.37	6.3541E-05	50.32	33.15	62.00	33.15	V-C	2.6477E+04	-6.200	53.68	
1.000	1.000	86.83	0.000	0.000	Ug5_2_8_L_0						
33 D	17.95	5.9638E-05	52.26	34.00	64.00	34.00	V-C	2.6477E+04	-6.400	55.74	

1.000	1.000	89.75	0.000	0.000	Ug5_2_8_L_0					
34 D	18.53	5.6179E-05	54.19	34.87	66.00	34.87	V-C	2.6477E+04	-6.600	57.81
1.000	1.000	92.67	0.000	0.000	Ug5_2_8_L_0					
35 D	19.12	5.3137E-05	56.13	35.74	68.00	35.74	V-C	2.6477E+04	-6.800	59.87
1.000	1.000	95.61	0.000	0.000	Ug5_2_8_L_0					
36 D	19.71	5.0482E-05	58.06	36.63	70.00	36.63	V-C	2.6477E+04	-7.000	61.94
1.000	1.000	98.57	0.000	0.000	Ug5_2_8_L_0					
37 D	20.31	4.8188E-05	60.00	37.53	72.00	37.53	V-C	2.6477E+04	-7.200	64.00
1.000	1.000	101.5	0.000	0.000	Ug5_2_8_L_0					
38 D	20.89	4.6225E-05	61.94	38.38	74.00	38.46	UL-RL	7.9432E+04	-7.400	66.06
1.000	1.000	104.4	0.000	0.000	Ug5_2_8_L_0					
39 D	21.47	4.4568E-05	63.87	39.22	76.00	39.41	UL-RL	7.9432E+04	-7.600	68.13
1.000	1.000	107.4	0.000	0.000	Ug5_2_8_L_0					
40 D	22.06	4.3189E-05	65.81	40.09	78.00	40.37	UL-RL	7.9432E+04	-7.800	70.19
1.000	1.000	110.3	0.000	0.000	Ug5_2_8_L_0					
41 D	22.65	4.2063E-05	67.74	40.98	80.00	41.32	UL-RL	7.9432E+04	-8.000	72.26
1.000	1.000	113.2	0.000	0.000	Ug5_2_8_L_0					
42 D	23.24	4.1168E-05	69.68	41.89	82.00	42.27	UL-RL	7.9432E+04	-8.200	74.32
1.000	1.000	116.2	0.000	0.000	Ug5_2_8_L_0					
43 D	23.84	4.0481E-05	71.61	42.81	84.00	43.23	UL-RL	7.9432E+04	-8.400	76.39
1.000	1.000	119.2	0.000	0.000	Ug5_2_8_L_0					
44 D	24.44	3.9981E-05	73.55	43.74	86.00	44.19	UL-RL	7.9432E+04	-8.600	78.45
1.000	1.000	122.2	0.000	0.000	Ug5_2_8_L_0					
45 D	25.04	3.9651E-05	75.48	44.69	88.00	45.15	UL-RL	7.9432E+04	-8.800	80.52
1.000	1.000	125.2	0.000	0.000	Ug5_2_8_L_0					
46 D	25.65	3.9473E-05	77.42	45.65	90.00	46.11	UL-RL	7.9432E+04	-9.000	82.58
1.000	1.000	128.2	0.000	0.000	Ug5_2_8_L_0					
47 D	26.25	3.9432E-05	79.35	46.62	92.00	47.08	UL-RL	7.9432E+04	-9.200	84.65
1.000	1.000	131.3	0.000	0.000	Ug5_2_8_L_0					
48 D	26.86	3.9515E-05	81.29	47.60	94.00	48.04	UL-RL	7.9432E+04	-9.400	86.71
1.000	1.000	134.3	0.000	0.000	Ug5_2_8_L_0					
49 D	27.47	3.9709E-05	83.23	48.58	96.00	49.01	UL-RL	7.9432E+04	-9.600	88.77
1.000	1.000	137.4	0.000	0.000	Ug5_2_8_L_0					
50 D	28.08	4.0003E-05	85.16	49.57	98.00	49.98	UL-RL	7.9432E+04	-9.800	90.84
1.000	1.000	140.4	0.000	0.000	Ug5_2_8_L_0					
51 D	28.69	4.0389E-05	87.10	50.56	100.00	50.95	UL-RL	7.9432E+04	-10.000	92.90
1.000	1.000	143.5	0.000	0.000	Ug5_2_8_L_0					
52 D	29.31	4.0857E-05	89.03	51.56	102.0	51.93	UL-RL	7.9432E+04	-10.200	94.97
1.000	1.000	146.5	0.000	0.000	Ug5_2_8_L_0					
53 D	29.92	4.1400E-05	90.97	52.57	104.0	52.91	UL-RL	7.9432E+04	-10.400	97.03
1.000	1.000	149.6	0.000	0.000	Ug5_2_8_L_0					
54 D	30.53	4.2011E-05	92.90	53.57	106.0	53.89	UL-RL	7.9432E+04	-10.600	99.10
1.000	1.000	152.7	0.000	0.000	Ug5_2_8_L_0					
55 D	31.15	4.2683E-05	94.84	54.58	108.0	54.87	UL-RL	7.9432E+04	-10.800	101.2
1.000	1.000	155.7	0.000	0.000	Ug5_2_8_L_0					
56 D	31.76	4.3410E-05	96.77	55.59	110.0	55.85	UL-RL	7.9432E+04	-11.000	103.2
1.000	1.000	158.8	0.000	0.000	Ug5_2_8_L_0					
57 D	32.38	4.4186E-05	98.71	56.60	112.0	56.84	UL-RL	7.9432E+04	-11.200	105.3
1.000	1.000	161.9	0.000	0.000	Ug5_2_8_L_0					
58 D	32.99	4.5004E-05	100.6	57.62	114.0	57.82	UL-RL	7.9432E+04	-11.400	107.4
1.000	1.000	165.0	0.000	0.000	Ug5_2_8_L_0					
59 D	33.61	4.5857E-05	102.6	58.63	116.0	58.81	UL-RL	7.9432E+04	-11.600	109.4
1.000	1.000	168.1	0.000	0.000	Ug5_2_8_L_0					
60 D	34.23	4.6737E-05	104.5	59.65	118.0	59.81	UL-RL	7.9432E+04	-11.800	111.5
1.000	1.000	171.1	0.000	0.000	Ug5_2_8_L_0					
61 D	34.84	4.7635E-05	106.5	60.66	120.0	60.80	UL-RL	7.9432E+04	-12.000	113.5
1.000	1.000	174.2	0.000	0.000	Ug5_2_8_L_0					
62 D	35.29	4.8540E-05	108.2	60.83	121.8	61.54	UL-RL	5.7643E+04	-12.200	115.6
1.000	1.000	176.4	0.000	0.000	Ug6_741_743_L_0					
63 D	35.89	4.9442E-05	109.9	61.75	123.6	62.42	UL-RL	5.7643E+04	-12.400	117.7
1.000	1.000	179.4	0.000	0.000	Ug6_741_743_L_0					
64 D	36.48	5.0330E-05	111.7	62.67	125.4	63.30	UL-RL	5.7643E+04	-12.600	119.7
1.000	1.000	182.4	0.000	0.000	Ug6_741_743_L_0					
65 D	37.08	5.1197E-05	113.4	63.59	127.2	64.19	UL-RL	5.7643E+04	-12.800	121.8
1.000	1.000	185.4	0.000	0.000	Ug6_741_743_L_0					
66 D	37.67	5.2039E-05	115.1	64.50	129.0	65.07	UL-RL	5.7643E+04	-13.000	123.9
1.000	1.000	188.4	0.000	0.000	Ug6_741_743_L_0					
67 D	38.27	5.2851E-05	116.9	65.42	130.8	65.95	UL-RL	5.7643E+04	-13.200	125.9
1.000	1.000	191.4	0.000	0.000	Ug6_741_743_L_0					
68 D	38.87	5.3631E-05	118.6	66.33	132.6	66.84	UL-RL	5.7643E+04	-13.400	128.0
1.000	1.000	194.3	0.000	0.000	Ug6_741_743_L_0					
69 D	39.46	5.4379E-05	120.3	67.25	134.4	67.73	UL-RL	5.7643E+04	-13.600	130.1
1.000	1.000	197.3	0.000	0.000	Ug6_741_743_L_0					
70 D	40.06	5.5096E-05	122.1	68.16	136.2	68.61	UL-RL	5.7643E+04	-13.800	132.1
1.000	1.000	200.3	0.000	0.000	Ug6_741_743_L_0					
71 D	40.65	5.5782E-05	123.8	69.07	138.0	69.50	UL-RL	5.7643E+04	-14.000	134.2
1.000	1.000	203.3	0.000	0.000	Ug6_741_743_L_0					
72 D	41.25	5.6440E-05	125.5	69.98	139.8	70.38	UL-RL	5.7643E+04	-14.200	136.3
1.000	1.000	206.2	0.000	0.000	Ug6_741_743_L_0					
73 D	41.84	5.7074E-05	127.3	70.89	141.6	71.27	UL-RL	5.7643E+04	-14.400	138.3
1.000	1.000	209.2	0.000	0.000	Ug6_741_743_L_0					
74 D	42.44	5.7686E-05	129.0	71.79	143.4	72.16	UL-RL	5.7643E+04	-14.600	140.4
1.000	1.000	212.2	0.000	0.000	Ug6_741_743_L_0					
75 D	43.03	5.8280E-05	130.7	72.70	145.2	73.05	UL-RL	5.7643E+04	-14.800	142.5
1.000	1.000	215.2	0.000	0.000	Ug6_741_743_L_0					
76 D	43.62	5.8860E-05	132.5	73.61	147.0	73.94	UL-RL	5.7643E+04	-15.000	144.5
1.000	1.000	218.1	0.000	0.000	Ug6_741_743_L_0					
77 D	44.22	5.9430E-05	134.2	74.51	148.8	74.82	UL-RL	5.7643E+04	-15.200	146.6
1.000	1.000	221.1	0.000	0.000	Ug6_741_743_L_0					
78 D	44.81	5.9992E-05	136.0	75.42	150.6	75.71	UL-RL	5.7643E+04	-15.400	148.6
1.000	1.000	224.1	0.000	0.000	Ug6_741_743_L_0					

79 D	45.41	6.0549E-05	137.7	76.32	152.4	76.60	UL-RL	5.7643E+04	-15.60	150.7
1.000	1.000	227.0	0.000	0.000	Ug6_741_743_L_0					
80 D	46.00	6.1105E-05	139.4	77.23	154.2	77.49	UL-RL	5.7643E+04	-15.80	152.8
1.000	1.000	230.0	0.000	0.000	Ug6_741_743_L_0					
81 D	23.30	6.1659E-05	141.2	78.14	156.0	78.38	UL-RL	5.7643E+04	-16.00	154.8
1.000	1.000	233.0	0.000	0.000	Ug6_741_743_L_0					





70 0.41497 -0.41497 1.0633 -0.98026  
71 0.52156 -0.52156 0.98026 -0.87594  
72 0.59622 -0.59622 0.87594 -0.75670  
73 0.63954 -0.63954 0.75670 -0.62879  
74 0.65203 -0.65203 0.62879 -0.49839  
75 0.63413 -0.63413 0.49839 -0.37156  
76 0.58618 -0.58618 0.37156 -0.25432  
77 0.50844 -0.50844 0.25432 -0.15263  
78 0.40108 -0.40108 0.15263 -7.24185E-02  
79 0.26421 -0.26421 7.24185E-02-1.95772E-02  
80 9.78810E-02-9.78810E-02 1.95772E-02-1.72751E-13

ITER 0 RNORM = 0.000 RMNORM= 0.000  
RINORM=0.1055E+06 RIMNOR=0.1744E+05  
RENORM= 393.6 REMNOR=0.3148E-21 RATIO =0.6108E-01 TOLER =0.1000E-03 NOT CONVERGED  
RFMAX = 45.29 RMMAX = 20.52  
RTSMAL=0.1000E-03 RMSMAL=0.1000E-03  
RDT =0.1055E+06 RDR =0.1744E+05  
RATIOT=0.6108E-01 RATIO= 0.000  
MAX UN= 5.713 IEQ= 21 NODE 11 DOF 1 Y-DISPL.F  
MIN UN=-.3441E-01 IEQ= 11 NODE 6 DOF 1 Y-DISPL.F  
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 2 RNORM = 0.000 RMNORM= 0.000  
RINORM=0.1055E+06 RIMNOR=0.1744E+05  
RENORM= 108.7 REMNOR=0.1951E-20 RATIO =0.3210E-01 TOLER =0.1000E-03 NOT CONVERGED  
RFMAX = 45.29 RMMAX = 20.52  
RTSMAL=0.1000E-03 RMSMAL=0.1000E-03  
RDT =0.1055E+06 RDR =0.1744E+05  
RATIOT=0.3210E-01 RATIO= 0.000  
MAX UN= 2.855 IEQ= 25 NODE 13 DOF 1 Y-DISPL.F  
MIN UN=-.2491E-02 IEQ= 3 NODE 2 DOF 1 Y-DISPL.F  
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 3 RNORM = 0.000 RMNORM= 0.000  
RINORM=0.1055E+06 RIMNOR=0.1744E+05  
RENORM= 46.84 REMNOR=0.1336E-18 RATIO =0.2107E-01 TOLER =0.1000E-03 NOT CONVERGED  
RFMAX = 45.29 RMMAX = 20.52  
RTSMAL=0.1000E-03 RMSMAL=0.1000E-03  
RDT =0.1055E+06 RDR =0.1744E+05  
RATIOT=0.2107E-01 RATIO= 0.000  
MAX UN= 3.631 IEQ= 27 NODE 14 DOF 1 Y-DISPL.F  
MIN UN=-.9676E-09 IEQ= 39 NODE 20 DOF 1 Y-DISPL.F  
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 4 RNORM = 0.000 RMNORM= 0.000  
RINORM=0.1055E+06 RIMNOR=0.1744E+05  
RENORM= 1.378 REMNOR=0.1383E-19 RATIO =0.3613E-02 TOLER =0.1000E-03 NOT CONVERGED  
RFMAX = 45.29 RMMAX = 20.52  
RTSMAL=0.1000E-03 RMSMAL=0.1000E-03  
RDT =0.1055E+06 RDR =0.1744E+05  
RATIOT=0.3613E-02 RATIO= 0.000  
MAX UN=0.7885 IEQ= 83 NODE 42 DOF 1 Y-DISPL.F  
MIN UN=-.1399E-08 IEQ= 7 NODE 4 DOF 1 Y-DISPL.F  
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 5 RNORM = 0.000 RMNORM= 0.000  
RINORM=0.1055E+06 RIMNOR=0.1744E+05  
RENORM=0.6220E-02 REMNOR=0.2397E-19 RATIO =0.2428E-03 TOLER =0.1000E-03 NOT CONVERGED  
RFMAX = 45.29 RMMAX = 20.52  
RTSMAL=0.1000E-03 RMSMAL=0.1000E-03  
RDT =0.1055E+06 RDR =0.1744E+05  
RATIOT=0.2428E-03 RATIO= 0.000  
MAX UN=0.7588E-01 IEQ= 87 NODE 44 DOF 1 Y-DISPL.F  
MIN UN=-.7053E-09 IEQ= 5 NODE 3 DOF 1 Y-DISPL.F  
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 6 RNORM = 0.000 RMNORM= 0.000  
RINORM=0.1055E+06 RIMNOR=0.1744E+05  
RENORM=0.4595E-17 REMNOR=0.3052E-19 RATIO =0.6599E-11 TOLER =0.1000E-03 CONVERGED !  
RFMAX = 45.29 RMMAX = 20.52  
RTSMAL=0.1000E-03 RMSMAL=0.1000E-03  
RDT =0.1055E+06 RDR =0.1744E+05  
RATIOT=0.6599E-11 RATIO= 0.000  
MAX UN=0.6149E-09 IEQ= 15 NODE 8 DOF 1 Y-DISPL.F  
MIN UN=-.1241E-08 IEQ= 17 NODE 9 DOF 1 Y-DISPL.F  
NO. OF CONTACT CONSTRAINT VIOLATIONS 0



74	1.1788409E-04	1.4859522E-05
75	1.2084792E-04	1.4779731E-05
76	1.2379659E-04	1.4708947E-05
77	1.2673244E-04	1.4652239E-05
78	1.2965858E-04	1.4612038E-05
79	1.3257834E-04	1.4588148E-05
80	1.3549474E-04	1.4577752E-05
81	1.3841013E-04	1.4575411E-05



1.000	1.000	82.64	0.000	0.000	Ug5_2_8_L_0					
34 D	17.04	-4.1368E-04	73.99	23.60	73.99	35.48	ACTIVE	0.000	-6.600	61.60
1.000	1.000	85.20	0.000	0.000	Ug5_2_8_L_0					
35 D	17.55	-3.7832E-04	76.16	24.30	76.16	36.47	ACTIVE	0.000	-6.800	63.47
1.000	1.000	87.76	0.000	0.000	Ug5_2_8_L_0					
36 D	18.06	-3.4529E-04	78.33	24.99	78.33	37.46	ACTIVE	0.000	-7.000	65.33
1.000	1.000	90.32	0.000	0.000	Ug5_2_8_L_0					
37 D	18.57	-3.1457E-04	80.45	25.66	80.45	38.46	ACTIVE	0.000	-7.200	67.20
1.000	1.000	92.86	0.000	0.000	Ug5_2_8_L_0					
38 D	19.08	-2.8609E-04	82.62	26.36	82.62	39.45	ACTIVE	0.000	-7.400	69.07
1.000	1.000	95.42	0.000	0.000	Ug5_2_8_L_0					
39 D	19.60	-2.5982E-04	84.79	27.05	84.79	40.45	ACTIVE	0.000	-7.600	70.93
1.000	1.000	97.98	0.000	0.000	Ug5_2_8_L_0					
40 D	20.10	-2.3569E-04	86.91	27.72	86.91	41.45	ACTIVE	0.000	-7.800	72.80
1.000	1.000	100.5	0.000	0.000	Ug5_2_8_L_0					
41 D	20.62	-2.1364E-04	89.07	28.41	89.07	42.45	ACTIVE	0.000	-8.000	74.67
1.000	1.000	103.1	0.000	0.000	Ug5_2_8_L_0					
42 D	21.13	-1.9361E-04	91.24	29.11	91.24	43.45	ACTIVE	0.000	-8.200	76.53
1.000	1.000	105.6	0.000	0.000	Ug5_2_8_L_0					
43 D	21.64	-1.7553E-04	93.36	29.78	93.36	44.45	ACTIVE	0.000	-8.400	78.40
1.000	1.000	108.2	0.000	0.000	Ug5_2_8_L_0					
44 D	22.15	-1.5932E-04	95.52	30.47	95.52	45.45	ACTIVE	0.000	-8.600	80.27
1.000	1.000	110.7	0.000	0.000	Ug5_2_8_L_0					
45 D	22.94	-1.4490E-04	97.68	32.55	97.68	46.45	UL-RL	9.9584E+04	-8.800	82.13
1.000	1.000	114.7	0.000	0.000	Ug5_2_8_L_0					
46 D	23.77	-1.3217E-04	99.84	34.86	99.84	47.45	UL-RL	9.9584E+04	-9.000	84.00
1.000	1.000	118.9	0.000	0.000	Ug5_2_8_L_0					
47 D	24.57	-1.2106E-04	102.0	37.00	102.0	48.46	UL-RL	9.9584E+04	-9.200	85.87
1.000	1.000	122.9	0.000	0.000	Ug5_2_8_L_0					
48 D	25.35	-1.1145E-04	104.1	39.00	104.1	49.46	UL-RL	9.9584E+04	-9.400	87.73
1.000	1.000	126.7	0.000	0.000	Ug5_2_8_L_0					
49 D	26.09	-1.0326E-04	106.3	40.85	106.3	50.47	UL-RL	9.9584E+04	-9.600	89.60
1.000	1.000	130.4	0.000	0.000	Ug5_2_8_L_0					
50 D	26.81	-9.6393E-05	108.4	42.56	108.4	51.47	UL-RL	9.9584E+04	-9.800	91.47
1.000	1.000	134.0	0.000	0.000	Ug5_2_8_L_0					
51 D	27.50	-9.0741E-05	110.6	44.16	110.6	52.48	UL-RL	9.9584E+04	-10.000	93.33
1.000	1.000	137.5	0.000	0.000	Ug5_2_8_L_0					
52 D	28.17	-8.6213E-05	112.7	45.64	112.7	53.49	UL-RL	9.9584E+04	-10.200	95.20
1.000	1.000	140.8	0.000	0.000	Ug5_2_8_L_0					
53 D	28.82	-8.2715E-05	114.8	47.02	114.8	54.50	UL-RL	9.9584E+04	-10.400	97.07
1.000	1.000	144.1	0.000	0.000	Ug5_2_8_L_0					
54 D	29.45	-8.0156E-05	117.0	48.30	117.0	55.51	UL-RL	9.9584E+04	-10.600	98.93
1.000	1.000	147.2	0.000	0.000	Ug5_2_8_L_0					
55 D	30.06	-7.8448E-05	119.1	49.50	119.1	56.52	UL-RL	9.9584E+04	-10.800	100.8
1.000	1.000	150.3	0.000	0.000	Ug5_2_8_L_0					
56 D	30.66	-7.7505E-05	121.3	50.62	121.3	57.53	UL-RL	9.9584E+04	-11.000	102.7
1.000	1.000	153.3	0.000	0.000	Ug5_2_8_L_0					
57 D	31.24	-7.7247E-05	123.4	51.67	123.4	58.54	UL-RL	9.9584E+04	-11.200	104.5
1.000	1.000	156.2	0.000	0.000	Ug5_2_8_L_0					
58 D	31.81	-7.7597E-05	125.6	52.66	125.6	59.55	UL-RL	9.9584E+04	-11.400	106.4
1.000	1.000	159.1	0.000	0.000	Ug5_2_8_L_0					
59 D	32.37	-7.8479E-05	127.7	53.60	127.7	60.56	UL-RL	9.9584E+04	-11.600	108.3
1.000	1.000	161.9	0.000	0.000	Ug5_2_8_L_0					
60 D	32.93	-7.9823E-05	129.8	54.49	129.8	61.58	UL-RL	9.9584E+04	-11.800	110.1
1.000	1.000	164.6	0.000	0.000	Ug5_2_8_L_0					
61 D	33.47	-8.1560E-05	132.0	55.35	132.0	62.59	UL-RL	9.9584E+04	-12.000	112.0
1.000	1.000	167.3	0.000	0.000	Ug5_2_8_L_0					
62 D	34.95	-8.3625E-05	133.9	60.87	133.9	63.50	UL-RL	4.9402E+04	-12.200	113.9
1.000	1.000	174.7	0.000	0.000	Ug6_741_743_L_0					
63 D	35.49	-8.5955E-05	135.9	61.70	135.9	64.42	UL-RL	4.9402E+04	-12.400	115.7
1.000	1.000	177.4	0.000	0.000	Ug6_741_743_L_0					
64 D	36.02	-8.8494E-05	137.8	62.51	137.8	65.33	UL-RL	4.9402E+04	-12.600	117.6
1.000	1.000	180.1	0.000	0.000	Ug6_741_743_L_0					
65 D	36.56	-9.1194E-05	139.7	63.32	139.7	66.25	UL-RL	4.9402E+04	-12.800	119.5
1.000	1.000	182.8	0.000	0.000	Ug6_741_743_L_0					
66 D	37.09	-9.4013E-05	141.6	64.12	141.6	67.17	UL-RL	4.9402E+04	-13.000	121.3
1.000	1.000	185.4	0.000	0.000	Ug6_741_743_L_0					
67 D	37.62	-9.6918E-05	143.5	64.91	143.5	68.08	UL-RL	4.9402E+04	-13.200	123.2
1.000	1.000	188.1	0.000	0.000	Ug6_741_743_L_0					
68 D	38.16	-9.9879E-05	145.4	65.71	145.4	69.00	UL-RL	4.9402E+04	-13.400	125.1
1.000	1.000	190.8	0.000	0.000	Ug6_741_743_L_0					
69 D	38.69	-1.0287E-04	147.3	66.50	147.3	69.92	UL-RL	4.9402E+04	-13.600	126.9
1.000	1.000	193.4	0.000	0.000	Ug6_741_743_L_0					
70 D	39.22	-1.0589E-04	149.2	67.30	149.2	70.84	UL-RL	4.9402E+04	-13.800	128.8
1.000	1.000	196.1	0.000	0.000	Ug6_741_743_L_0					
71 D	39.75	-1.0890E-04	151.1	68.10	151.1	71.76	UL-RL	4.9402E+04	-14.000	130.7
1.000	1.000	198.8	0.000	0.000	Ug6_741_743_L_0					
72 D	40.29	-1.1191E-04	153.0	68.89	153.0	72.68	UL-RL	4.9402E+04	-14.200	132.5
1.000	1.000	201.4	0.000	0.000	Ug6_741_743_L_0					
73 D	40.82	-1.1490E-04	154.9	69.69	154.9	73.59	UL-RL	4.9402E+04	-14.400	134.4
1.000	1.000	204.1	0.000	0.000	Ug6_741_743_L_0					
74 D	41.35	-1.1788E-04	156.8	70.49	156.8	74.51	UL-RL	4.9402E+04	-14.600	136.3
1.000	1.000	206.8	0.000	0.000	Ug6_741_743_L_0					
75 D	41.88	-1.2085E-04	158.7	71.29	158.7	75.43	UL-RL	4.9402E+04	-14.800	138.1
1.000	1.000	209.4	0.000	0.000	Ug6_741_743_L_0					
76 D	42.42	-1.2380E-04	160.6	72.09	160.6	76.36	UL-RL	4.9402E+04	-15.000	140.0
1.000	1.000	212.1	0.000	0.000	Ug6_741_743_L_0					
77 D	42.95	-1.2673E-04	162.5	72.90	162.5	77.28	UL-RL	4.9402E+04	-15.200	141.9
1.000	1.000	214.8	0.000	0.000	Ug6_741_743_L_0					
78 D	43.49	-1.2966E-04	164.4	73.70	164.4	78.20	UL-RL	4.9402E+04	-15.400	143.7
1.000	1.000	217.4	0.000	0.000	Ug6_741_743_L_0					

79 D	44.02	-1.3258E-04	166.3	74.51	166.3	79.12	UL-RL	4.9402E+04	-15.60	145.6
1.000	1.000	220.1	0.000	0.000	Ug6_741_743_L_0					
80 D	44.56	-1.3549E-04	168.2	75.31	168.2	80.04	UL-RL	4.9402E+04	-15.80	147.5
1.000	1.000	222.8	0.000	0.000	Ug6_741_743_L_0					
81 D	22.55	-1.3841E-04	170.1	76.12	170.1	80.96	UL-RL	4.9402E+04	-16.00	149.3
1.000	1.000	225.5	0.000	0.000	Ug6_741_743_L_0					

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|                PARATIEPLUS(TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION *Build date:Jul 11, 2017*                |
|                                                                                                                                            |
|                                                                                                                                            |
|                NewProject.BaseDesignSection_28.A2M2R1_1787                                                                              |
|                Exe Time :24 May 2018      18:25:48                                                                              |
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New Project

STRESS RESULTS FOR GROUP NO. 2

0\_R :  
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 81  
CURRENT TIME IS 3.0000

HARDENING 2D SOIL ELEMENT

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

EL * FACTOR	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
1	0.000	--	--	--	--	--	REMOVED	--	0.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
2	0.000	--	--	--	--	--	REMOVED	--	-0.2000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
3	0.000	--	--	--	--	--	REMOVED	--	-0.4000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
4	0.000	--	--	--	--	--	REMOVED	--	-0.6000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
5	0.000	--	--	--	--	--	REMOVED	--	-0.8000	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	--	-1.200	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
8	0.000	--	--	--	--	--	REMOVED	--	-1.400	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
9	0.000	--	--	--	--	--	REMOVED	--	-1.600	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
10	0.000	--	--	--	--	--	REMOVED	--	-1.800	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
11 D	0.000	1.8465E-03	0.000	0.000	20.00	18.58	PASSIVE	0.000	-2.000	0.000	
1.000	1.000	0.000	0.000	0.000	Ug5_2_8_L_0						
12 D	2.136	1.7660E-03	1.867	8.546	22.00	19.18	PASSIVE	0.000	-2.200	2.133	
1.000	1.000	10.68	0.000	0.000	Ug5_2_8_L_0						
13 D	4.272	1.6860E-03	3.733	17.09	24.00	19.77	PASSIVE	0.000	-2.400	4.267	
1.000	1.000	21.36	0.000	0.000	Ug5_2_8_L_0						
14 D	6.407	1.6069E-03	5.600	25.64	26.00	25.64	PASSIVE	0.000	-2.600	6.400	
1.000	1.000	32.04	0.000	0.000	Ug5_2_8_L_0						
15 D	8.543	1.5288E-03	7.467	34.18	28.00	34.18	PASSIVE	0.000	-2.800	8.533	
1.000	1.000	42.72	0.000	0.000	Ug5_2_8_L_0						
16 D	10.68	1.4519E-03	9.333	42.73	30.00	42.73	PASSIVE	0.000	-3.000	10.67	
1.000	1.000	53.39	0.000	0.000	Ug5_2_8_L_0						
17 D	11.80	1.3765E-03	11.20	46.18	32.00	46.18	V-C	2.1182E+04	-3.200	12.80	
1.000	1.000	58.98	0.000	0.000	Ug5_2_8_L_0						
18 D	12.09	1.3026E-03	13.07	45.53	34.00	45.53	V-C	2.1182E+04	-3.400	14.93	
1.000	1.000	60.46	0.000	0.000	Ug5_2_8_L_0						
19 D	12.39	1.2305E-03	14.93	44.91	36.00	44.91	V-C	2.1182E+04	-3.600	17.07	
1.000	1.000	61.97	0.000	0.000	Ug5_2_8_L_0						
20 D	12.70	1.1602E-03	16.80	44.32	38.00	44.32	V-C	2.1182E+04	-3.800	19.20	
1.000	1.000	63.52	0.000	0.000	Ug5_2_8_L_0						
21 D	13.02	1.0919E-03	18.67	43.78	40.00	43.78	V-C	2.1182E+04	-4.000	21.33	
1.000	1.000	65.11	0.000	0.000	Ug5_2_8_L_0						
22 D	13.35	1.0257E-03	20.53	43.28	42.00	43.28	V-C	2.1182E+04	-4.200	23.47	
1.000	1.000	66.74	0.000	0.000	Ug5_2_8_L_0						
23 D	13.69	9.6170E-04	22.40	42.83	44.00	42.83	V-C	2.1182E+04	-4.400	25.60	
1.000	1.000	68.43	0.000	0.000	Ug5_2_8_L_0						
24 D	14.03	8.9993E-04	24.27	42.42	46.00	42.42	V-C	2.1182E+04	-4.600	27.73	
1.000	1.000	70.16	0.000	0.000	Ug5_2_8_L_0						
25 D	14.39	8.4046E-04	26.13	42.07	48.00	42.07	V-C	2.1182E+04	-4.800	29.87	
1.000	1.000	71.94	0.000	0.000	Ug5_2_8_L_0						
26 D	14.76	7.8335E-04	28.00	41.78	50.00	41.78	V-C	2.1182E+04	-5.000	32.00	
1.000	1.000	73.78	0.000	0.000	Ug5_2_8_L_0						
27 D	15.13	7.2864E-04	29.87	41.53	52.00	41.53	V-C	2.1182E+04	-5.200	34.13	
1.000	1.000	75.66	0.000	0.000	Ug5_2_8_L_0						
28 D	15.52	6.7634E-04	31.73	41.34	54.00	41.34	V-C	2.1182E+04	-5.400	36.27	
1.000	1.000	77.61	0.000	0.000	Ug5_2_8_L_0						
29 D	15.92	6.2647E-04	33.60	41.20	56.00	41.20	V-C	2.1182E+04	-5.600	38.40	
1.000	1.000	79.60	0.000	0.000	Ug5_2_8_L_0						
30 D	16.33	5.7905E-04	35.47	41.12	58.00	41.12	V-C	2.1182E+04	-5.800	40.53	
1.000	1.000	81.66	0.000	0.000	Ug5_2_8_L_0						
31 D	16.75	5.3407E-04	37.33	41.10	60.00	41.10	V-C	2.1182E+04	-6.000	42.67	
1.000	1.000	83.76	0.000	0.000	Ug5_2_8_L_0						
32 D	17.19	4.9153E-04	39.20	41.13	62.00	41.13	V-C	2.1182E+04	-6.200	44.80	
1.000	1.000	85.93	0.000	0.000	Ug5_2_8_L_0						
33 D	17.63	4.5140E-04	41.07	41.21	64.00	41.21	V-C	2.1182E+04	-6.400	46.93	



1.000	1.000	88.14	0.000	0.000	Ug5_2_8_L_0					
34 D	18.08	4.1368E-04	42.93	41.34	66.00	41.34	V-C	2.1182E+04	-6.600	49.07
1.000	1.000	90.41	0.000	0.000	Ug5_2_8_L_0					
35 D	18.55	3.7832E-04	44.80	41.53	68.00	41.53	V-C	2.1182E+04	-6.800	51.20
1.000	1.000	92.73	0.000	0.000	Ug5_2_8_L_0					
36 D	19.02	3.4529E-04	46.67	41.77	70.00	41.77	V-C	2.1182E+04	-7.000	53.33
1.000	1.000	95.11	0.000	0.000	Ug5_2_8_L_0					
37 D	19.51	3.1457E-04	48.53	42.07	72.00	42.07	V-C	2.1182E+04	-7.200	55.47
1.000	1.000	97.53	0.000	0.000	Ug5_2_8_L_0					
38 D	20.00	2.8609E-04	50.40	42.41	74.00	42.41	V-C	2.1182E+04	-7.400	57.60
1.000	1.000	100.0	0.000	0.000	Ug5_2_8_L_0					
39 D	20.51	2.5982E-04	52.27	42.80	76.00	42.80	V-C	2.1182E+04	-7.600	59.73
1.000	1.000	102.5	0.000	0.000	Ug5_2_8_L_0					
40 D	21.02	2.3569E-04	54.13	43.24	78.00	43.24	V-C	2.1182E+04	-7.800	61.87
1.000	1.000	105.1	0.000	0.000	Ug5_2_8_L_0					
41 D	21.55	2.1364E-04	56.00	43.73	80.00	43.73	V-C	2.1182E+04	-8.000	64.00
1.000	1.000	107.7	0.000	0.000	Ug5_2_8_L_0					
42 D	22.08	1.9361E-04	57.87	44.26	82.00	44.26	V-C	2.1182E+04	-8.200	66.13
1.000	1.000	110.4	0.000	0.000	Ug5_2_8_L_0					
43 D	22.62	1.7553E-04	59.73	44.83	84.00	44.83	V-C	2.1182E+04	-8.400	68.27
1.000	1.000	113.1	0.000	0.000	Ug5_2_8_L_0					
44 D	23.17	1.5932E-04	61.60	45.44	86.00	45.44	V-C	2.1182E+04	-8.600	70.40
1.000	1.000	115.8	0.000	0.000	Ug5_2_8_L_0					
45 D	23.73	1.4490E-04	63.47	46.10	88.00	46.10	V-C	2.1182E+04	-8.800	72.53
1.000	1.000	118.6	0.000	0.000	Ug5_2_8_L_0					
46 D	24.29	1.3217E-04	65.33	46.79	90.00	46.79	V-C	2.1182E+04	-9.000	74.67
1.000	1.000	121.5	0.000	0.000	Ug5_2_8_L_0					
47 D	24.86	1.2106E-04	67.20	47.52	92.00	47.52	V-C	2.1182E+04	-9.200	76.80
1.000	1.000	124.3	0.000	0.000	Ug5_2_8_L_0					
48 D	25.44	1.1145E-04	69.07	48.28	94.00	48.28	V-C	2.1182E+04	-9.400	78.93
1.000	1.000	127.2	0.000	0.000	Ug5_2_8_L_0					
49 D	26.03	1.0326E-04	70.93	49.07	96.00	49.07	V-C	2.1182E+04	-9.600	81.07
1.000	1.000	130.1	0.000	0.000	Ug5_2_8_L_0					
50 D	26.58	9.6393E-05	72.80	49.71	98.00	49.98	UL-RL	6.3546E+04	-9.800	83.20
1.000	1.000	132.9	0.000	0.000	Ug5_2_8_L_0					
51 D	27.13	9.0741E-05	74.67	50.31	100.00	50.95	UL-RL	6.3546E+04	-10.000	85.33
1.000	1.000	135.6	0.000	0.000	Ug5_2_8_L_0					
52 D	27.69	8.6213E-05	76.53	50.98	102.0	51.93	UL-RL	6.3546E+04	-10.200	87.47
1.000	1.000	138.4	0.000	0.000	Ug5_2_8_L_0					
53 D	28.26	8.2715E-05	78.40	51.71	104.0	52.91	UL-RL	6.3546E+04	-10.400	89.60
1.000	1.000	141.3	0.000	0.000	Ug5_2_8_L_0					
54 D	28.84	8.0156E-05	80.27	52.49	106.0	53.89	UL-RL	6.3546E+04	-10.600	91.73
1.000	1.000	144.2	0.000	0.000	Ug5_2_8_L_0					
55 D	29.44	7.8448E-05	82.13	53.31	108.0	54.88	UL-RL	6.3546E+04	-10.800	93.87
1.000	1.000	147.2	0.000	0.000	Ug5_2_8_L_0					
56 D	30.03	7.7505E-05	84.00	54.17	110.0	55.88	UL-RL	6.3546E+04	-11.000	96.00
1.000	1.000	150.2	0.000	0.000	Ug5_2_8_L_0					
57 D	30.64	7.7247E-05	85.87	55.07	112.0	56.88	UL-RL	6.3546E+04	-11.200	98.13
1.000	1.000	153.2	0.000	0.000	Ug5_2_8_L_0					
58 D	31.25	7.7597E-05	87.73	56.01	114.0	57.89	UL-RL	6.3546E+04	-11.400	100.3
1.000	1.000	156.3	0.000	0.000	Ug5_2_8_L_0					
59 D	31.87	7.8479E-05	89.60	56.97	116.0	58.90	UL-RL	6.3546E+04	-11.600	102.4
1.000	1.000	159.4	0.000	0.000	Ug5_2_8_L_0					
60 D	32.50	7.9823E-05	91.47	57.97	118.0	59.91	UL-RL	6.3546E+04	-11.800	104.5
1.000	1.000	162.5	0.000	0.000	Ug5_2_8_L_0					
61 D	33.13	8.1560E-05	93.33	58.98	120.0	60.92	UL-RL	6.3546E+04	-12.000	106.7
1.000	1.000	165.6	0.000	0.000	Ug5_2_8_L_0					
62 D	33.53	8.3625E-05	95.00	58.84	121.8	61.54	UL-RL	4.6114E+04	-12.200	108.8
1.000	1.000	167.6	0.000	0.000	Ug6_741_743_L_0					
63 D	34.15	8.5955E-05	96.67	59.81	123.6	62.42	UL-RL	4.6114E+04	-12.400	110.9
1.000	1.000	170.7	0.000	0.000	Ug6_741_743_L_0					
64 D	34.77	8.8494E-05	98.33	60.79	125.4	63.30	UL-RL	4.6114E+04	-12.600	113.1
1.000	1.000	173.9	0.000	0.000	Ug6_741_743_L_0					
65 D	35.39	9.1194E-05	100.00	61.77	127.2	64.19	UL-RL	4.6114E+04	-12.800	115.2
1.000	1.000	177.0	0.000	0.000	Ug6_741_743_L_0					
66 D	36.02	9.4013E-05	101.7	62.77	129.0	65.07	UL-RL	4.6114E+04	-13.000	117.3
1.000	1.000	180.1	0.000	0.000	Ug6_741_743_L_0					
67 D	36.65	9.6918E-05	103.3	63.76	130.8	65.95	UL-RL	4.6114E+04	-13.200	119.5
1.000	1.000	183.2	0.000	0.000	Ug6_741_743_L_0					
68 D	37.27	9.9879E-05	105.0	64.76	132.6	66.84	UL-RL	4.6114E+04	-13.400	121.6
1.000	1.000	186.4	0.000	0.000	Ug6_741_743_L_0					
69 D	37.90	1.0287E-04	106.7	65.76	134.4	67.73	UL-RL	4.6114E+04	-13.600	123.7
1.000	1.000	189.5	0.000	0.000	Ug6_741_743_L_0					
70 D	38.53	1.0589E-04	108.3	66.76	136.2	68.61	UL-RL	4.6114E+04	-13.800	125.9
1.000	1.000	192.6	0.000	0.000	Ug6_741_743_L_0					
71 D	39.15	1.0890E-04	110.0	67.77	138.0	69.50	UL-RL	4.6114E+04	-14.000	128.0
1.000	1.000	195.8	0.000	0.000	Ug6_741_743_L_0					
72 D	39.78	1.1191E-04	111.7	68.77	139.8	70.38	UL-RL	4.6114E+04	-14.200	130.1
1.000	1.000	198.9	0.000	0.000	Ug6_741_743_L_0					
73 D	40.41	1.1490E-04	113.3	69.77	141.6	71.27	UL-RL	4.6114E+04	-14.400	132.3
1.000	1.000	202.0	0.000	0.000	Ug6_741_743_L_0					
74 D	41.03	1.1788E-04	115.0	70.77	143.4	72.16	UL-RL	4.6114E+04	-14.600	134.4
1.000	1.000	205.2	0.000	0.000	Ug6_741_743_L_0					
75 D	41.66	1.2085E-04	116.7	71.77	145.2	73.05	UL-RL	4.6114E+04	-14.800	136.5
1.000	1.000	208.3	0.000	0.000	Ug6_741_743_L_0					
76 D	42.29	1.2380E-04	118.3	72.77	147.0	73.94	UL-RL	4.6114E+04	-15.000	138.7
1.000	1.000	211.4	0.000	0.000	Ug6_741_743_L_0					
77 D	42.91	1.2673E-04	120.0	73.77	148.8	74.82	UL-RL	4.6114E+04	-15.200	140.8
1.000	1.000	214.6	0.000	0.000	Ug6_741_743_L_0					
78 D	43.54	1.2966E-04	121.7	74.77	150.6	75.71	UL-RL	4.6114E+04	-15.400	142.9
1.000	1.000	217.7	0.000	0.000	Ug6_741_743_L_0					

79 D	44.17	1.3258E-04	123.3	75.76	152.4	76.60	UL-RL	4.6114E+04	-15.60	145.1
1.000	1.000	220.8	0.000	0.000	Ug6_741_743_L_0					
80 D	44.79	1.3549E-04	125.0	76.76	154.2	77.49	UL-RL	4.6114E+04	-15.80	147.2
1.000	1.000	224.0	0.000	0.000	Ug6_741_743_L_0					
81 D	22.71	1.3841E-04	126.7	77.76	156.0	78.38	UL-RL	4.6114E+04	-16.00	149.3
1.000	1.000	227.1	0.000	0.000	Ug6_741_743_L_0					



70 -1.6284 1.6284 -7.80587E-02-0.24762  
71 -1.0292 1.0292 0.24762 -0.45345  
72-0.52427 0.52427 0.45345 -0.55831  
73-0.11327 0.11327 0.55831 -0.58096  
74 0.20420 -0.20420 0.58096 -0.54012  
75 0.42858 -0.42858 0.54012 -0.45440  
76 0.56022 -0.56022 0.45440 -0.34236  
77 0.59944 -0.59944 0.34236 -0.22247  
78 0.54646 -0.54646 0.22247 -0.11318  
79 0.40144 -0.40144 0.11318 -3.28925E-02  
80 0.16445 -0.16445 3.28925E-02 1.33438E-12

ITER 0 RNORM = 0.000 RMNORM= 0.000  
RINORM=0.1265E+06 RIMNOR=0.3954E+06  
RENORM= 701.2 REMNOR=0.3052E-19 RATIO =0.7445E-01 TOLER =0.1000E-03 NOT CONVERGED  
RFMAX = 43.97 RMMAX = 85.85  
RTSMAL=0.1000E-03 RMSMAL=0.1000E-03  
RDT =0.1265E+06 RDR =0.3954E+06  
RATIOT=0.7445E-01 RATIO= 0.000  
MAX UN= 10.57 IEQ= 31 NODE 16 DOF 1 Y-DISPL.F  
MIN UN=-.7356E-01 IEQ= 21 NODE 11 DOF 1 Y-DISPL.F  
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 2 RNORM = 0.000 RMNORM= 0.000  
RINORM=0.1265E+06 RIMNOR=0.3954E+06  
RENORM= 218.2 REMNOR=0.2624E-19 RATIO =0.4153E-01 TOLER =0.1000E-03 NOT CONVERGED  
RFMAX = 43.97 RMMAX = 85.85  
RTSMAL=0.1000E-03 RMSMAL=0.1000E-03  
RDT =0.1265E+06 RDR =0.3954E+06  
RATIOT=0.4153E-01 RATIO= 0.000  
MAX UN= 3.741 IEQ= 41 NODE 21 DOF 1 Y-DISPL.F  
MIN UN=-.2663E-02 IEQ= 3 NODE 2 DOF 1 Y-DISPL.F  
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 3 RNORM = 0.000 RMNORM= 0.000  
RINORM=0.1265E+06 RIMNOR=0.3954E+06  
RENORM= 123.2 REMNOR=0.1460E-17 RATIO =0.3121E-01 TOLER =0.1000E-03 NOT CONVERGED  
RFMAX = 43.97 RMMAX = 85.85  
RTSMAL=0.1000E-03 RMSMAL=0.1000E-03  
RDT =0.1265E+06 RDR =0.3954E+06  
RATIOT=0.3121E-01 RATIO= 0.000  
MAX UN= 6.912 IEQ= 43 NODE 22 DOF 1 Y-DISPL.F  
MIN UN=-.4945E-01 IEQ= 133 NODE 67 DOF 1 Y-DISPL.F  
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 4 RNORM = 0.000 RMNORM= 0.000  
RINORM=0.1265E+06 RIMNOR=0.3954E+06  
RENORM= 1.480 REMNOR=0.2737E-18 RATIO =0.3421E-02 TOLER =0.1000E-03 NOT CONVERGED  
RFMAX = 43.97 RMMAX = 85.85  
RTSMAL=0.1000E-03 RMSMAL=0.1000E-03  
RDT =0.1265E+06 RDR =0.3954E+06  
RATIOT=0.3421E-02 RATIO= 0.000  
MAX UN=0.6985 IEQ= 109 NODE 55 DOF 1 Y-DISPL.F  
MIN UN=-.2098 IEQ= 159 NODE 80 DOF 1 Y-DISPL.F  
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 5 RNORM = 0.000 RMNORM= 0.000  
RINORM=0.1265E+06 RIMNOR=0.3954E+06  
RENORM=0.9147E-16 REMNOR=0.2969E-18 RATIO =0.2689E-10 TOLER =0.1000E-03 CONVERGED !  
RFMAX = 43.97 RMMAX = 85.85  
RTSMAL=0.1000E-03 RMSMAL=0.1000E-03  
RDT =0.1265E+06 RDR =0.3954E+06  
RATIOT=0.2689E-10 RATIO= 0.000  
MAX UN=0.3419E-08 IEQ= 11 NODE 6 DOF 1 Y-DISPL.F  
MIN UN=-.3025E-08 IEQ= 9 NODE 5 DOF 1 Y-DISPL.F  
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

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|                PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                                                                            |
|                                                                                                                                            |
|                                                                                                                                            |
|                NewProject.BaseDesignSection_28.A2M2R1_1787  |
|                Exe Time :24 May 2018  18:25:48  |
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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	9.8657742E-03	-1.2657889E-03
2	9.6126164E-03	-1.2657889E-03
3	9.3594591E-03	-1.2657818E-03
4	9.1063056E-03	-1.2657461E-03
5	8.8531649E-03	-1.2656462E-03
6	8.6000548E-03	-1.2654316E-03
7	8.3470043E-03	-1.2650375E-03
8	8.0940570E-03	-1.2643845E-03
9	7.8412740E-03	-1.2633784E-03
10	7.5887365E-03	-1.2619100E-03
11	7.3365490E-03	-1.2598558E-03
12	7.0848424E-03	-1.2570773E-03
13	6.8337766E-03	-1.2534216E-03
14	6.5835434E-03	-1.2487212E-03
15	6.3343699E-03	-1.2427941E-03
16	6.0865207E-03	-1.2354438E-03
17	5.8403001E-03	-1.2264593E-03
18	5.5960577E-03	-1.2156450E-03
19	5.3541742E-03	-1.2028501E-03
20	5.1150568E-03	-1.1879688E-03
21	4.8791309E-03	-1.1709404E-03
22	4.6468260E-03	-1.1517487E-03
23	4.4185738E-03	-1.1304228E-03
24	4.1947942E-03	-1.1070370E-03
25	3.9758884E-03	-1.0817102E-03
26	3.7622286E-03	-1.0546065E-03
27	3.5541513E-03	-1.0259350E-03
28	3.3519452E-03	-9.9592073E-04
29	3.1558584E-03	-9.6477557E-04
30	2.9660972E-03	-9.3269666E-04
31	2.7828298E-03	-8.9986730E-04
32	2.6061899E-03	-8.6645774E-04
33	2.4362758E-03	-8.3262506E-04
34	2.2731583E-03	-7.9851492E-04
35	2.1168794E-03	-7.6426148E-04
36	1.9674551E-03	-7.2998825E-04
37	1.8248785E-03	-6.9580887E-04
38	1.6891191E-03	-6.6182712E-04
39	1.5601281E-03	-6.2813867E-04
40	1.4378382E-03	-5.9483091E-04
41	1.3221651E-03	-5.6198387E-04
42	1.2130091E-03	-5.2967084E-04
43	1.1102566E-03	-4.9795891E-04
44	1.0137813E-03	-4.6690968E-04
45	9.2344525E-04	-4.3657995E-04
46	8.3909836E-04	-4.0702171E-04
47	7.6058190E-04	-3.7828356E-04
48	6.8772725E-04	-3.5041075E-04
49	6.2035707E-04	-3.2344583E-04
50	5.5828600E-04	-2.9742924E-04
51	5.0131991E-04	-2.7239936E-04
52	4.4925673E-04	-2.4839318E-04
53	4.0189280E-04	-2.2544966E-04
54	3.5900620E-04	-2.0360220E-04
55	3.2037634E-04	-1.8288840E-04
56	2.8577281E-04	-1.6334514E-04
57	2.5495774E-04	-1.4501011E-04
58	2.2768586E-04	-1.2791865E-04
59	2.0370556E-04	-1.1209793E-04
60	1.8276085E-04	-9.7564778E-05
61	1.6459340E-04	-8.4325380E-05
62	1.4894471E-04	-7.2375685E-05
63	1.3555966E-04	-6.1677996E-05
64	1.2419459E-04	-5.2164229E-05
65	1.1461974E-04	-4.3763883E-05
66	1.0661962E-04	-3.6404759E-05
67	9.9993278E-05	-3.0013976E-05
68	9.4554320E-05	-2.4518835E-05
69	9.0130849E-05	-1.9847121E-05
70	8.6565347E-05	-1.5927278E-05
71	8.3714526E-05	-1.2688618E-05
72	8.1449128E-05	-1.0061530E-05
73	7.9653699E-05	-7.9776561E-06

74	7.8226316E-05	-6.3700382E-06
75	7.7078297E-05	-5.1732294E-06
76	7.6133893E-05	-4.3233828E-06
77	7.5329958E-05	-3.7583167E-06
78	7.4615612E-05	-3.4175610E-06
79	7.3951895E-05	-3.2423883E-06
80	7.3311416E-05	-3.1758324E-06
81	7.2677969E-05	-3.1626976E-06



1.000	1.000	81.04	0.000	0.000	0.000	Ug5_2_8_L_0					
34 D	16.71	-2.2732E-03	76.41	24.38	76.41	35.48	ACTIVE	0.000	-6.600	59.17	
1.000	1.000	83.55	0.000	0.000	0.000	Ug5_2_8_L_0					
35 D	17.21	-2.1169E-03	78.66	25.09	78.66	36.47	ACTIVE	0.000	-6.800	60.97	
1.000	1.000	86.06	0.000	0.000	0.000	Ug5_2_8_L_0					
36 D	17.71	-1.9675E-03	80.91	25.81	80.91	37.46	ACTIVE	0.000	-7.000	62.76	
1.000	1.000	88.57	0.000	0.000	0.000	Ug5_2_8_L_0					
37 D	18.21	-1.8249E-03	83.10	26.51	83.10	38.46	ACTIVE	0.000	-7.200	64.55	
1.000	1.000	91.06	0.000	0.000	0.000	Ug5_2_8_L_0					
38 D	18.71	-1.6891E-03	85.34	27.22	85.34	39.45	ACTIVE	0.000	-7.400	66.34	
1.000	1.000	93.57	0.000	0.000	0.000	Ug5_2_8_L_0					
39 D	19.22	-1.5601E-03	87.59	27.94	87.59	40.45	ACTIVE	0.000	-7.600	68.14	
1.000	1.000	96.08	0.000	0.000	0.000	Ug5_2_8_L_0					
40 D	19.71	-1.4378E-03	89.78	28.64	89.78	41.45	ACTIVE	0.000	-7.800	69.93	
1.000	1.000	98.57	0.000	0.000	0.000	Ug5_2_8_L_0					
41 D	20.22	-1.3222E-03	92.02	29.35	92.02	42.45	ACTIVE	0.000	-8.000	71.72	
1.000	1.000	101.1	0.000	0.000	0.000	Ug5_2_8_L_0					
42 D	20.72	-1.2130E-03	94.26	30.07	94.26	43.45	ACTIVE	0.000	-8.200	73.52	
1.000	1.000	103.6	0.000	0.000	0.000	Ug5_2_8_L_0					
43 D	21.22	-1.1103E-03	96.45	30.77	96.45	44.45	ACTIVE	0.000	-8.400	75.31	
1.000	1.000	106.1	0.000	0.000	0.000	Ug5_2_8_L_0					
44 D	21.72	-1.0138E-03	98.68	31.48	98.68	45.45	ACTIVE	0.000	-8.600	77.10	
1.000	1.000	108.6	0.000	0.000	0.000	Ug5_2_8_L_0					
45 D	22.22	-9.2345E-04	100.9	32.19	100.9	46.45	ACTIVE	0.000	-8.800	78.90	
1.000	1.000	111.1	0.000	0.000	0.000	Ug5_2_8_L_0					
46 D	22.72	-8.3910E-04	103.2	32.91	103.2	47.45	ACTIVE	0.000	-9.000	80.69	
1.000	1.000	113.6	0.000	0.000	0.000	Ug5_2_8_L_0					
47 D	23.22	-7.6058E-04	105.3	33.60	105.3	48.46	ACTIVE	0.000	-9.200	82.48	
1.000	1.000	116.1	0.000	0.000	0.000	Ug5_2_8_L_0					
48 D	23.72	-6.8773E-04	107.6	34.32	107.6	49.46	ACTIVE	0.000	-9.400	84.28	
1.000	1.000	118.6	0.000	0.000	0.000	Ug5_2_8_L_0					
49 D	24.22	-6.2036E-04	109.8	35.03	109.8	50.47	ACTIVE	0.000	-9.600	86.07	
1.000	1.000	121.1	0.000	0.000	0.000	Ug5_2_8_L_0					
50 D	24.72	-5.5829E-04	112.0	35.73	112.0	51.47	ACTIVE	0.000	-9.800	87.86	
1.000	1.000	123.6	0.000	0.000	0.000	Ug5_2_8_L_0					
51 D	25.22	-5.0132E-04	114.2	36.44	114.2	52.48	ACTIVE	0.000	-10.000	89.66	
1.000	1.000	126.1	0.000	0.000	0.000	Ug5_2_8_L_0					
52 D	25.72	-4.4926E-04	116.5	37.15	116.5	53.49	ACTIVE	0.000	-10.200	91.45	
1.000	1.000	128.6	0.000	0.000	0.000	Ug5_2_8_L_0					
53 D	26.22	-4.0189E-04	118.7	37.85	118.7	54.50	ACTIVE	0.000	-10.400	93.24	
1.000	1.000	131.1	0.000	0.000	0.000	Ug5_2_8_L_0					
54 D	26.72	-3.5901E-04	120.9	38.56	120.9	55.51	ACTIVE	0.000	-10.600	95.03	
1.000	1.000	133.6	0.000	0.000	0.000	Ug5_2_8_L_0					
55 D	27.22	-3.2038E-04	123.1	39.27	123.1	56.52	ACTIVE	0.000	-10.800	96.83	
1.000	1.000	136.1	0.000	0.000	0.000	Ug5_2_8_L_0					
56 D	27.72	-2.8577E-04	125.3	39.98	125.3	57.53	ACTIVE	0.000	-11.000	98.62	
1.000	1.000	138.6	0.000	0.000	0.000	Ug5_2_8_L_0					
57 D	28.47	-2.5496E-04	127.5	41.93	127.5	58.54	UL-RL	6.6389E+04	-11.200	100.4	
1.000	1.000	142.3	0.000	0.000	0.000	Ug5_2_8_L_0					
58 D	29.40	-2.2769E-04	129.8	44.80	129.8	59.55	UL-RL	6.6389E+04	-11.400	102.2	
1.000	1.000	147.0	0.000	0.000	0.000	Ug5_2_8_L_0					
59 D	30.28	-2.0371E-04	132.0	47.42	132.0	60.56	UL-RL	6.6389E+04	-11.600	104.0	
1.000	1.000	151.4	0.000	0.000	0.000	Ug5_2_8_L_0					
60 D	31.12	-1.8276E-04	134.2	49.83	134.2	61.58	UL-RL	6.6389E+04	-11.800	105.8	
1.000	1.000	155.6	0.000	0.000	0.000	Ug5_2_8_L_0					
61 D	31.93	-1.6459E-04	136.4	52.04	136.4	62.59	UL-RL	6.6389E+04	-12.000	107.6	
1.000	1.000	159.6	0.000	0.000	0.000	Ug5_2_8_L_0					
62 D	34.07	-1.4894E-04	138.4	60.96	138.4	63.50	UL-RL	3.2934E+04	-12.200	109.4	
1.000	1.000	170.3	0.000	0.000	0.000	Ug6_741_743_L_0					
63 D	34.70	-1.3556E-04	140.4	62.34	140.4	64.42	UL-RL	3.2934E+04	-12.400	111.2	
1.000	1.000	173.5	0.000	0.000	0.000	Ug6_741_743_L_0					
64 D	35.32	-1.2419E-04	142.4	63.65	142.4	65.33	UL-RL	3.2934E+04	-12.600	113.0	
1.000	1.000	176.6	0.000	0.000	0.000	Ug6_741_743_L_0					
65 D	35.93	-1.1462E-04	144.4	64.90	144.4	66.25	UL-RL	3.2934E+04	-12.800	114.8	
1.000	1.000	179.7	0.000	0.000	0.000	Ug6_741_743_L_0					
66 D	36.50	-1.0662E-04	146.4	65.96	146.4	67.23	UL-RL	3.2934E+04	-13.000	116.6	
1.000	1.000	182.5	0.000	0.000	0.000	Ug6_741_743_L_0					
67 D	37.07	-9.9993E-05	148.4	66.99	148.4	68.21	UL-RL	3.2934E+04	-13.200	118.3	
1.000	1.000	185.3	0.000	0.000	0.000	Ug6_741_743_L_0					
68 D	37.63	-9.4554E-05	150.3	68.03	150.3	69.19	UL-RL	3.2934E+04	-13.400	120.1	
1.000	1.000	188.2	0.000	0.000	0.000	Ug6_741_743_L_0					
69 D	38.20	-9.0131E-05	152.3	69.07	152.3	70.19	UL-RL	3.2934E+04	-13.600	121.9	
1.000	1.000	191.0	0.000	0.000	0.000	Ug6_741_743_L_0					
70 D	38.76	-8.6565E-05	154.3	70.10	154.3	71.18	UL-RL	3.2934E+04	-13.800	123.7	
1.000	1.000	193.8	0.000	0.000	0.000	Ug6_741_743_L_0					
71 D	39.33	-8.3715E-05	156.2	71.11	156.2	72.17	UL-RL	3.2934E+04	-14.000	125.5	
1.000	1.000	196.6	0.000	0.000	0.000	Ug6_741_743_L_0					
72 D	39.88	-8.1449E-05	158.2	72.11	158.2	73.16	UL-RL	3.2934E+04	-14.200	127.3	
1.000	1.000	199.4	0.000	0.000	0.000	Ug6_741_743_L_0					
73 D	40.44	-7.9654E-05	160.2	73.11	160.2	74.13	UL-RL	3.2934E+04	-14.400	129.1	
1.000	1.000	202.2	0.000	0.000	0.000	Ug6_741_743_L_0					
74 D	41.00	-7.8226E-05	162.1	74.09	162.1	75.11	UL-RL	3.2934E+04	-14.600	130.9	
1.000	1.000	205.0	0.000	0.000	0.000	Ug6_741_743_L_0					
75 D	41.55	-7.7078E-05	164.1	75.08	164.1	76.09	UL-RL	3.2934E+04	-14.800	132.7	
1.000	1.000	207.8	0.000	0.000	0.000	Ug6_741_743_L_0					
76 D	42.11	-7.6134E-05	166.1	76.06	166.1	77.06	UL-RL	3.2934E+04	-15.000	134.5	
1.000	1.000	210.5	0.000	0.000	0.000	Ug6_741_743_L_0					
77 D	42.66	-7.5330E-05	168.1	77.04	168.1	78.03	UL-RL	3.2934E+04	-15.200	136.3	
1.000	1.000	213.3	0.000	0.000	0.000	Ug6_741_743_L_0					
78 D	43.22	-7.4616E-05	170.0	78.01	170.0	79.00	UL-RL	3.2934E+04	-15.400	138.1	
1.000	1.000	216.1	0.000	0.000	0.000	Ug6_741_743_L_0					



79 D	43.77	-7.3952E-05	172.0	78.99	172.0	79.98	UL-RL	3.2934E+04	-15.60	139.9
1.000	1.000	218.8	0.000	0.000	Ug6_741_743_L_0					
80 D	44.32	-7.3311E-05	174.0	79.96	174.0	80.95	UL-RL	3.2934E+04	-15.80	141.7
1.000	1.000	221.6	0.000	0.000	Ug6_741_743_L_0					
81 D	22.44	-7.2678E-05	176.0	80.94	176.0	81.92	UL-RL	3.2934E+04	-16.00	143.4
1.000	1.000	224.4	0.000	0.000	Ug6_741_743_L_0					

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*          |
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NewProject.BaseDesignSection_28.A2M2R1_1787
Exe Time :24 May 2018      18:25:48

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New Project

STRESS RESULTS FOR GROUP NO. 2

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O_R          :
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 81
CURRENT TIME IS 4.0000

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HARDENING 2D SOIL ELEMENT

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

EL * FACTOR	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
1	0.000	--	--	--	--	--	REMOVED	--	0.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
2	0.000	--	--	--	--	--	REMOVED	--	-0.2000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
3	0.000	--	--	--	--	--	REMOVED	--	-0.4000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
4	0.000	--	--	--	--	--	REMOVED	--	-0.6000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
5	0.000	--	--	--	--	--	REMOVED	--	-0.8000	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	--	-1.200	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
8	0.000	--	--	--	--	--	REMOVED	--	-1.400	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
9	0.000	--	--	--	--	--	REMOVED	--	-1.600	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
10	0.000	--	--	--	--	--	REMOVED	--	-1.800	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
11	0.000	--	--	--	--	--	REMOVED	--	-2.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
12	0.000	--	--	--	--	--	REMOVED	--	-2.200	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
13	0.000	--	--	--	--	--	REMOVED	--	-2.400	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
14	0.000	--	--	--	--	--	REMOVED	--	-2.600	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
15	0.000	--	--	--	--	--	REMOVED	--	-2.800	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
16 D	0.000	6.0865E-03	0.000	0.000	30.00	42.73	PASSIVE	0.000	-3.000	0.000	
1.000	1.000	0.000	0.000	0.000	Ug5_2_8_L_0						
17 D	2.083	5.8403E-03	1.793	8.209	32.00	46.18	PASSIVE	0.000	-3.200	2.207	
1.000	1.000	10.42	0.000	0.000	Ug5_2_8_L_0						
18 D	4.166	5.5961E-03	3.586	16.42	34.00	45.53	PASSIVE	0.000	-3.400	4.414	
1.000	1.000	20.83	0.000	0.000	Ug5_2_8_L_0						
19 D	6.249	5.3542E-03	5.379	24.63	36.00	44.91	PASSIVE	0.000	-3.600	6.621	
1.000	1.000	31.25	0.000	0.000	Ug5_2_8_L_0						
20 D	8.333	5.1151E-03	7.172	32.84	38.00	44.32	PASSIVE	0.000	-3.800	8.828	
1.000	1.000	41.66	0.000	0.000	Ug5_2_8_L_0						
21 D	10.42	4.8791E-03	8.966	41.04	40.00	43.78	PASSIVE	0.000	-4.000	11.03	
1.000	1.000	52.08	0.000	0.000	Ug5_2_8_L_0						
22 D	12.50	4.6468E-03	10.76	49.25	42.00	49.25	PASSIVE	0.000	-4.200	13.24	
1.000	1.000	62.49	0.000	0.000	Ug5_2_8_L_0						
23 D	14.58	4.4186E-03	12.55	57.46	44.00	57.46	PASSIVE	0.000	-4.400	15.45	
1.000	1.000	72.91	0.000	0.000	Ug5_2_8_L_0						
24 D	16.67	4.1948E-03	14.34	65.67	46.00	65.67	PASSIVE	0.000	-4.600	17.66	
1.000	1.000	83.33	0.000	0.000	Ug5_2_8_L_0						
25 D	18.75	3.9759E-03	16.14	73.88	48.00	73.88	PASSIVE	0.000	-4.800	19.86	
1.000	1.000	93.74	0.000	0.000	Ug5_2_8_L_0						
26 D	20.83	3.7622E-03	17.93	82.09	50.00	82.09	PASSIVE	0.000	-5.000	22.07	
1.000	1.000	104.2	0.000	0.000	Ug5_2_8_L_0						
27 D	20.90	3.5542E-03	19.72	80.20	52.00	80.20	V-C	1.4121E+04	-5.200	24.28	
1.000	1.000	104.5	0.000	0.000	Ug5_2_8_L_0						
28 D	20.88	3.3519E-03	21.52	77.91	54.00	77.91	V-C	1.4121E+04	-5.400	26.48	
1.000	1.000	104.4	0.000	0.000	Ug5_2_8_L_0						
29 D	20.88	3.1559E-03	23.31	75.71	56.00	75.71	V-C	1.4121E+04	-5.600	28.69	
1.000	1.000	104.4	0.000	0.000	Ug5_2_8_L_0						
30 D	20.91	2.9661E-03	25.10	73.63	58.00	73.63	V-C	1.4121E+04	-5.800	30.90	
1.000	1.000	104.5	0.000	0.000	Ug5_2_8_L_0						
31 D	20.95	2.7828E-03	26.90	71.66	60.00	71.66	V-C	1.4121E+04	-6.000	33.10	
1.000	1.000	104.8	0.000	0.000	Ug5_2_8_L_0						
32 D	21.02	2.6062E-03	28.69	69.80	62.00	69.80	V-C	1.4121E+04	-6.200	35.31	
1.000	1.000	105.1	0.000	0.000	Ug5_2_8_L_0						
33 D	21.11	2.4363E-03	30.48	68.05	64.00	68.05	V-C	1.4121E+04	-6.400	37.52	

1.000	1.000	105.6	0.000	0.000	Ug5_2_8_L_0					
34 D	21.23	2.2732E-03	32.28	66.42	66.00	66.42	V-C	1.4121E+04	-6.600	39.72
1.000	1.000	106.1	0.000	0.000	Ug5_2_8_L_0					
35 D	21.37	2.1169E-03	34.07	64.91	68.00	64.91	V-C	1.4121E+04	-6.800	41.93
1.000	1.000	106.8	0.000	0.000	Ug5_2_8_L_0					
36 D	21.53	1.9675E-03	35.86	63.51	70.00	63.51	V-C	1.4121E+04	-7.000	44.14
1.000	1.000	107.6	0.000	0.000	Ug5_2_8_L_0					
37 D	21.71	1.8249E-03	37.66	62.22	72.00	62.22	V-C	1.4121E+04	-7.200	46.34
1.000	1.000	108.6	0.000	0.000	Ug5_2_8_L_0					
38 D	21.92	1.6891E-03	39.45	61.05	74.00	61.05	V-C	1.4121E+04	-7.400	48.55
1.000	1.000	109.6	0.000	0.000	Ug5_2_8_L_0					
39 D	22.15	1.5601E-03	41.24	59.99	76.00	59.99	V-C	1.4121E+04	-7.600	50.76
1.000	1.000	110.7	0.000	0.000	Ug5_2_8_L_0					
40 D	22.40	1.4378E-03	43.03	59.04	78.00	59.04	V-C	1.4121E+04	-7.800	52.97
1.000	1.000	112.0	0.000	0.000	Ug5_2_8_L_0					
41 D	22.68	1.3222E-03	44.83	58.21	80.00	58.21	V-C	1.4121E+04	-8.000	55.17
1.000	1.000	113.4	0.000	0.000	Ug5_2_8_L_0					
42 D	22.97	1.2130E-03	46.62	57.48	82.00	57.48	V-C	1.4121E+04	-8.200	57.38
1.000	1.000	114.9	0.000	0.000	Ug5_2_8_L_0					
43 D	23.29	1.1103E-03	48.41	56.85	84.00	56.85	V-C	1.4121E+04	-8.400	59.59
1.000	1.000	116.4	0.000	0.000	Ug5_2_8_L_0					
44 D	23.62	1.0138E-03	50.21	56.33	86.00	56.33	V-C	1.4121E+04	-8.600	61.79
1.000	1.000	118.1	0.000	0.000	Ug5_2_8_L_0					
45 D	23.98	9.2345E-04	52.00	55.91	88.00	55.91	V-C	1.4121E+04	-8.800	64.00
1.000	1.000	119.9	0.000	0.000	Ug5_2_8_L_0					
46 D	24.36	8.3910E-04	53.79	55.59	90.00	55.59	V-C	1.4121E+04	-9.000	66.21
1.000	1.000	121.8	0.000	0.000	Ug5_2_8_L_0					
47 D	24.76	7.6058E-04	55.59	55.36	92.00	55.36	V-C	1.4121E+04	-9.200	68.41
1.000	1.000	123.8	0.000	0.000	Ug5_2_8_L_0					
48 D	25.17	6.8773E-04	57.38	55.23	94.00	55.23	V-C	1.4121E+04	-9.400	70.62
1.000	1.000	125.8	0.000	0.000	Ug5_2_8_L_0					
49 D	25.60	6.2036E-04	59.17	55.18	96.00	55.18	V-C	1.4121E+04	-9.600	72.83
1.000	1.000	128.0	0.000	0.000	Ug5_2_8_L_0					
50 D	26.05	5.5829E-04	60.97	55.22	98.00	55.22	V-C	1.4121E+04	-9.800	75.03
1.000	1.000	130.3	0.000	0.000	Ug5_2_8_L_0					
51 D	26.52	5.0132E-04	62.76	55.34	100.00	55.34	V-C	1.4121E+04	-10.000	77.24
1.000	1.000	132.6	0.000	0.000	Ug5_2_8_L_0					
52 D	27.00	4.4926E-04	64.55	55.54	102.0	55.54	V-C	1.4121E+04	-10.200	79.45
1.000	1.000	135.0	0.000	0.000	Ug5_2_8_L_0					
53 D	27.49	4.0189E-04	66.34	55.81	104.0	55.81	V-C	1.4121E+04	-10.400	81.66
1.000	1.000	137.5	0.000	0.000	Ug5_2_8_L_0					
54 D	28.00	3.5901E-04	68.14	56.15	106.0	56.15	V-C	1.4121E+04	-10.600	83.86
1.000	1.000	140.0	0.000	0.000	Ug5_2_8_L_0					
55 D	28.53	3.2038E-04	69.93	56.56	108.0	56.56	V-C	1.4121E+04	-10.800	86.07
1.000	1.000	142.6	0.000	0.000	Ug5_2_8_L_0					
56 D	29.06	2.8577E-04	71.72	57.04	110.0	57.04	V-C	1.4121E+04	-11.000	88.28
1.000	1.000	145.3	0.000	0.000	Ug5_2_8_L_0					
57 D	29.61	2.5496E-04	73.52	57.57	112.0	57.57	V-C	1.4121E+04	-11.200	90.48
1.000	1.000	148.1	0.000	0.000	Ug5_2_8_L_0					
58 D	30.17	2.2769E-04	75.31	58.16	114.0	58.16	V-C	1.4121E+04	-11.400	92.69
1.000	1.000	150.8	0.000	0.000	Ug5_2_8_L_0					
59 D	30.70	2.0371E-04	77.10	58.59	116.0	58.90	UL-RL	4.2364E+04	-11.600	94.90
1.000	1.000	153.5	0.000	0.000	Ug5_2_8_L_0					
60 D	31.15	1.8276E-04	78.90	58.63	118.0	59.91	UL-RL	4.2364E+04	-11.800	97.10
1.000	1.000	155.7	0.000	0.000	Ug5_2_8_L_0					
61 D	31.62	1.6459E-04	80.69	58.79	120.0	60.92	UL-RL	4.2364E+04	-12.000	99.31
1.000	1.000	158.1	0.000	0.000	Ug5_2_8_L_0					
62 D	31.73	1.4894E-04	82.28	57.12	121.8	61.54	UL-RL	3.0743E+04	-12.200	101.5
1.000	1.000	158.6	0.000	0.000	Ug6_741_743_L_0					
63 D	32.26	1.3556E-04	83.88	57.59	123.6	62.42	UL-RL	3.0743E+04	-12.400	103.7
1.000	1.000	161.3	0.000	0.000	Ug6_741_743_L_0					
64 D	32.81	1.2419E-04	85.47	58.12	125.4	63.30	UL-RL	3.0743E+04	-12.600	105.9
1.000	1.000	164.1	0.000	0.000	Ug6_741_743_L_0					
65 D	33.37	1.1462E-04	87.06	58.72	127.2	64.19	UL-RL	3.0743E+04	-12.800	108.1
1.000	1.000	166.9	0.000	0.000	Ug6_741_743_L_0					
66 D	33.94	1.0662E-04	88.66	59.36	129.0	65.07	UL-RL	3.0743E+04	-13.000	110.3
1.000	1.000	169.7	0.000	0.000	Ug6_741_743_L_0					
67 D	34.52	9.9993E-05	90.25	60.05	130.8	65.95	UL-RL	3.0743E+04	-13.200	112.6
1.000	1.000	172.6	0.000	0.000	Ug6_741_743_L_0					
68 D	35.11	9.4554E-05	91.84	60.78	132.6	66.84	UL-RL	3.0743E+04	-13.400	114.8
1.000	1.000	175.5	0.000	0.000	Ug6_741_743_L_0					
69 D	35.70	9.0131E-05	93.43	61.53	134.4	67.73	UL-RL	3.0743E+04	-13.600	117.0
1.000	1.000	178.5	0.000	0.000	Ug6_741_743_L_0					
70 D	36.30	8.6565E-05	95.03	62.32	136.2	68.61	UL-RL	3.0743E+04	-13.800	119.2
1.000	1.000	181.5	0.000	0.000	Ug6_741_743_L_0					
71 D	36.90	8.3715E-05	96.62	63.12	138.0	69.50	UL-RL	3.0743E+04	-14.000	121.4
1.000	1.000	184.5	0.000	0.000	Ug6_741_743_L_0					
72 D	37.51	8.1449E-05	98.21	63.95	139.8	70.38	UL-RL	3.0743E+04	-14.200	123.6
1.000	1.000	187.5	0.000	0.000	Ug6_741_743_L_0					
73 D	38.12	7.9654E-05	99.81	64.79	141.6	71.27	UL-RL	3.0743E+04	-14.400	125.8
1.000	1.000	190.6	0.000	0.000	Ug6_741_743_L_0					
74 D	38.73	7.8226E-05	101.4	65.63	143.4	72.16	UL-RL	3.0743E+04	-14.600	128.0
1.000	1.000	193.6	0.000	0.000	Ug6_741_743_L_0					
75 D	39.34	7.7078E-05	103.0	66.49	145.2	73.05	UL-RL	3.0743E+04	-14.800	130.2
1.000	1.000	196.7	0.000	0.000	Ug6_741_743_L_0					
76 D	39.95	7.6134E-05	104.6	67.35	147.0	73.94	UL-RL	3.0743E+04	-15.000	132.4
1.000	1.000	199.8	0.000	0.000	Ug6_741_743_L_0					
77 D	40.57	7.5330E-05	106.2	68.22	148.8	74.82	UL-RL	3.0743E+04	-15.200	134.6
1.000	1.000	202.8	0.000	0.000	Ug6_741_743_L_0					
78 D	41.18	7.4616E-05	107.8	69.09	150.6	75.71	UL-RL	3.0743E+04	-15.400	136.8
1.000	1.000	205.9	0.000	0.000	Ug6_741_743_L_0					

79 D	41.80	7.3952E-05	109.4	69.96	152.4	76.60	UL-RL	3.0743E+04	-15.60	139.0
1.000	1.000	209.0	0.000	0.000	Ug6_741_743_L_0					
80 D	42.42	7.3311E-05	111.0	70.84	154.2	77.49	UL-RL	3.0743E+04	-15.80	141.2
1.000	1.000	212.1	0.000	0.000	Ug6_741_743_L_0					
81 D	21.52	7.2678E-05	112.6	71.71	156.0	78.38	UL-RL	3.0743E+04	-16.00	143.4
1.000	1.000	215.2	0.000	0.000	Ug6_741_743_L_0					



70	-22.694	22.694	-25.021	20.482
71	-20.269	20.269	-20.482	16.429
72	-17.892	17.892	-16.429	12.850
73	-15.566	15.566	-12.850	9.7371
74	-13.294	13.294	-9.7371	7.0783
75	-11.080	11.080	-7.0783	4.8622
76	-8.9258	8.9258	-4.8622	3.0771
77	-6.8322	6.8322	-3.0771	1.7106
78	-4.8002	4.8002	-1.7106	0.75059
79	-2.8303	2.8303	-0.75059	0.18454
80	-0.92264	0.92264	-0.18454	-8.67084E-14

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ITER      0  RNORM = 0.000      RMNORM= 0.000
            RINORM=0.3017E+06  RIMNOR=0.3228E+07
            RENORM= 1120.      REMNOR=0.2969E-18  RATIO =0.6093E-01  TOLER =0.1000E-03  NOT CONVERGED
            RFMAX = 76.10      RMMAX = 240.9
            RTSMAL=0.1000E-03  RMSMAL=0.1000E-02
            RDT  =0.3017E+06  RDR  =0.3228E+07
            RATIO=0.6093E-01  RATIO= 0.000
            MAX UN= 10.50      IEQ=   51 NODE      26 DOF   1  Y-DISPL.F
            MIN UN=-.1182      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=0.3017E+06  RIMNOR=0.3228E+07
            RENORM= 387.9      REMNOR=0.3456E-18  RATIO =0.3586E-01  TOLER =0.1000E-03  NOT CONVERGED
            RFMAX = 76.10      RMMAX = 240.9
            RTSMAL=0.1000E-03  RMSMAL=0.1000E-02
            RDT  =0.3017E+06  RDR  =0.3228E+07
            RATIO=0.3586E-01  RATIO= 0.000
            MAX UN= 4.966      IEQ=   59 NODE      30 DOF   1  Y-DISPL.F
            MIN UN=-.2853E-02  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=0.3017E+06  RIMNOR=0.3228E+07
            RENORM= 360.9      REMNOR=0.1183E-16  RATIO =0.3459E-01  TOLER =0.1000E-03  NOT CONVERGED
            RFMAX = 76.10      RMMAX = 240.9
            RTSMAL=0.1000E-03  RMSMAL=0.1000E-02
            RDT  =0.3017E+06  RDR  =0.3228E+07
            RATIO=0.3459E-01  RATIO= 0.000
            MAX UN= 11.21      IEQ=   61 NODE      31 DOF   1  Y-DISPL.F
            MIN UN=-1.855      IEQ=  159 NODE      80 DOF   1  Y-DISPL.F
            NO. OF CONTACT CONSTRAINT VIOLATIONS      0

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ITER      4  RNORM = 0.000      RMNORM= 0.000
            RINORM=0.3017E+06  RIMNOR=0.3228E+07
            RENORM= 6.265      REMNOR=0.2733E-17  RATIO =0.4557E-02  TOLER =0.1000E-03  NOT CONVERGED
            RFMAX = 76.10      RMMAX = 240.9
            RTSMAL=0.1000E-03  RMSMAL=0.1000E-02
            RDT  =0.3017E+06  RDR  =0.3228E+07
            RATIO=0.4557E-02  RATIO= 0.000
            MAX UN= 2.477      IEQ=   71 NODE      36 DOF   1  Y-DISPL.F
            MIN UN=-.5968E-01  IEQ=  137 NODE      69 DOF   1  Y-DISPL.F
            NO. OF CONTACT CONSTRAINT VIOLATIONS      0

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ITER      5  RNORM = 0.000      RMNORM= 0.000
            RINORM=0.3017E+06  RIMNOR=0.3228E+07
            RENORM=0.4414E-01  REMNOR=0.1536E-17  RATIO =0.3825E-03  TOLER =0.1000E-03  NOT CONVERGED
            RFMAX = 76.10      RMMAX = 240.9
            RTSMAL=0.1000E-03  RMSMAL=0.1000E-02
            RDT  =0.3017E+06  RDR  =0.3228E+07
            RATIO=0.3825E-03  RATIO= 0.000
            MAX UN=0.2098      IEQ=   73 NODE      37 DOF   1  Y-DISPL.F
            MIN UN=-.8191E-02  IEQ=  137 NODE      69 DOF   1  Y-DISPL.F
            NO. OF CONTACT CONSTRAINT VIOLATIONS      0

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ITER      6  RNORM = 0.000      RMNORM= 0.000
            RINORM=0.3017E+06  RIMNOR=0.3228E+07
            RENORM=0.1291E-14  REMNOR=0.3056E-17  RATIO =0.6542E-10  TOLER =0.1000E-03  CONVERGED !
            RFMAX = 76.10      RMMAX = 240.9
            RTSMAL=0.1000E-03  RMSMAL=0.1000E-02
            RDT  =0.3017E+06  RDR  =0.3228E+07
            RATIO=0.6542E-10  RATIO= 0.000
            MAX UN=0.1339E-07  IEQ=   21 NODE      11 DOF   1  Y-DISPL.F
            MIN UN=-.1381E-07  IEQ=   19 NODE      10 DOF   1  Y-DISPL.F
            NO. OF CONTACT CONSTRAINT VIOLATIONS      0

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|                PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
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New Project
SOLUTION REACHED USING      6 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	2.9251792E-02	-3.1313011E-03	
2	2.8625531E-02	-3.1313011E-03	
3	2.7999272E-02	-3.1312942E-03	
4	2.7373015E-02	-3.1312593E-03	
5	2.6746772E-02	-3.1311615E-03	
6	2.6120558E-02	-3.1309515E-03	
7	2.5494403E-02	-3.1305658E-03	
8	2.4868349E-02	-3.1299267E-03	
9	2.4242455E-02	-3.1289419E-03	
10	2.3616802E-02	-3.1275048E-03	
11	2.2991492E-02	-3.1254941E-03	
12	2.2366652E-02	-3.1227745E-03	
13	2.1742439E-02	-3.1191961E-03	
14	2.1119042E-02	-3.1145950E-03	
15	2.0496681E-02	-3.1087930E-03	
16	1.9875617E-02	-3.1015978E-03	
17	1.9256146E-02	-3.0928028E-03	
18	1.8638615E-02	-3.0821874E-03	
19	1.8023408E-02	-3.0695171E-03	
20	1.7410961E-02	-3.0545429E-03	
21	1.6801765E-02	-3.0370023E-03	
22	1.6196353E-02	-3.0166183E-03	
23	1.5595324E-02	-2.9931288E-03	
24	1.4999323E-02	-2.9663157E-03	
25	1.4409031E-02	-2.9360044E-03	
26	1.3825163E-02	-2.9020638E-03	
27	1.3248456E-02	-2.8644070E-03	
28	1.2679654E-02	-2.8229901E-03	
29	1.2119511E-02	-2.7778134E-03	
30	1.1568776E-02	-2.7289208E-03	
31	1.1028185E-02	-2.6764001E-03	
32	1.0498452E-02	-2.6203828E-03	
33	9.9802557E-03	-2.5610436E-03	
34	9.4742414E-03	-2.4986015E-03	
35	8.9810044E-03	-2.4333192E-03	
36	8.5010827E-03	-2.3655029E-03	
37	8.0349511E-03	-2.2955032E-03	
38	7.5830031E-03	-2.2237131E-03	
39	7.1455582E-03	-2.1505386E-03	
40	6.7228545E-03	-2.0763625E-03	
41	6.3150561E-03	-2.0015427E-03	
42	5.9222580E-03	-1.9264133E-03	
43	5.5444907E-03	-1.8512854E-03	
44	5.1817244E-03	-1.7764489E-03	
45	4.8338755E-03	-1.7021731E-03	
46	4.5008029E-03	-1.6287073E-03	
47	4.1823231E-03	-1.5562831E-03	
48	3.8782060E-03	-1.4851149E-03	
49	3.5881802E-03	-1.4154007E-03	
50	3.3119379E-03	-1.3473238E-03	
51	3.0491318E-03	-1.2810523E-03	
52	2.7993801E-03	-1.2167408E-03	
53	2.5623003E-03	-1.1545389E-03	
54	2.3374276E-03	-1.0945710E-03	
55	2.1243146E-03	-1.0369623E-03	
56	1.9224779E-03	-9.8182486E-04	
57	1.7314130E-03	-9.2926237E-04	
58	1.5505950E-03	-8.7937044E-04	
59	1.3794809E-03	-8.3223750E-04	
60	1.2175106E-03	-7.8794546E-04	
61	1.0641082E-03	-7.4657037E-04	
62	9.1868323E-04	-7.0818308E-04	
63	7.8063496E-04	-6.7279616E-04	
64	6.4936774E-04	-6.4036462E-04	
65	5.2429531E-04	-6.1084012E-04	
66	4.0484132E-04	-5.8417131E-04	
67	2.9044035E-04	-5.6029893E-04	
68	1.8054011E-04	-5.3915103E-04	
69	7.4604175E-05	-5.2063963E-04	
70	-2.7884173E-05	-5.0465474E-04	
71	-1.2741746E-04	-4.9106590E-04	
72	-2.2446052E-04	-4.7972680E-04	
73	-3.1944739E-04	-4.7047588E-04	

74	-4.1277833E-04	-4.6313683E-04
75	-5.0481686E-04	-4.5751893E-04
76	-5.9588699E-04	-4.5341737E-04
77	-6.8627032E-04	-4.5061344E-04
78	-7.7620338E-04	-4.4887474E-04
79	-8.6587483E-04	-4.4795522E-04
80	-9.5542278E-04	-4.4759533E-04
81	-1.0449365E-03	-4.4752200E-04





1.000	1.000	79.32	0.000	0.000	Ug5_2_8_L_0						
34 D	16.36	-9.4742E-03	79.02	25.21	79.02	35.48	ACTIVE	0.000	-6.600	56.57	
1.000	1.000	81.78	0.000	0.000	Ug5_2_8_L_0						
35 D	16.85	-8.9810E-03	81.34	25.95	81.34	36.47	ACTIVE	0.000	-6.800	58.29	
1.000	1.000	84.23	0.000	0.000	Ug5_2_8_L_0						
36 D	17.34	-8.5011E-03	83.67	26.69	83.67	37.46	ACTIVE	0.000	-7.000	60.00	
1.000	1.000	86.69	0.000	0.000	Ug5_2_8_L_0						
37 D	17.83	-8.0350E-03	85.94	27.41	85.94	38.46	ACTIVE	0.000	-7.200	61.71	
1.000	1.000	89.13	0.000	0.000	Ug5_2_8_L_0						
38 D	18.32	-7.5830E-03	88.26	28.16	88.26	39.45	ACTIVE	0.000	-7.400	63.43	
1.000	1.000	91.58	0.000	0.000	Ug5_2_8_L_0						
39 D	18.81	-7.1456E-03	90.58	28.90	90.58	40.45	ACTIVE	0.000	-7.600	65.14	
1.000	1.000	94.04	0.000	0.000	Ug5_2_8_L_0						
40 D	19.30	-6.7229E-03	92.85	29.62	92.85	41.45	ACTIVE	0.000	-7.800	66.86	
1.000	1.000	96.48	0.000	0.000	Ug5_2_8_L_0						
41 D	19.79	-6.3151E-03	95.17	30.36	95.17	42.45	ACTIVE	0.000	-8.000	68.57	
1.000	1.000	98.93	0.000	0.000	Ug5_2_8_L_0						
42 D	20.28	-5.9223E-03	97.49	31.10	97.49	43.45	ACTIVE	0.000	-8.200	70.29	
1.000	1.000	101.4	0.000	0.000	Ug5_2_8_L_0						
43 D	20.76	-5.5445E-03	99.76	31.82	99.76	44.45	ACTIVE	0.000	-8.400	72.00	
1.000	1.000	103.8	0.000	0.000	Ug5_2_8_L_0						
44 D	21.26	-5.1817E-03	102.1	32.56	102.1	45.45	ACTIVE	0.000	-8.600	73.71	
1.000	1.000	106.3	0.000	0.000	Ug5_2_8_L_0						
45 D	21.75	-4.8339E-03	104.4	33.30	104.4	46.45	ACTIVE	0.000	-8.800	75.43	
1.000	1.000	108.7	0.000	0.000	Ug5_2_8_L_0						
46 D	22.24	-4.5008E-03	106.7	34.04	106.7	47.45	ACTIVE	0.000	-9.000	77.14	
1.000	1.000	111.2	0.000	0.000	Ug5_2_8_L_0						
47 D	22.72	-4.1823E-03	109.0	34.76	109.0	48.46	ACTIVE	0.000	-9.200	78.86	
1.000	1.000	113.6	0.000	0.000	Ug5_2_8_L_0						
48 D	23.21	-3.8782E-03	111.3	35.50	111.3	49.46	ACTIVE	0.000	-9.400	80.57	
1.000	1.000	116.1	0.000	0.000	Ug5_2_8_L_0						
49 D	23.70	-3.5882E-03	113.6	36.24	113.6	50.47	ACTIVE	0.000	-9.600	82.29	
1.000	1.000	118.5	0.000	0.000	Ug5_2_8_L_0						
50 D	24.19	-3.3119E-03	115.9	36.96	115.9	51.47	ACTIVE	0.000	-9.800	84.00	
1.000	1.000	121.0	0.000	0.000	Ug5_2_8_L_0						
51 D	24.68	-3.0491E-03	118.2	37.70	118.2	52.48	ACTIVE	0.000	-10.000	85.71	
1.000	1.000	123.4	0.000	0.000	Ug5_2_8_L_0						
52 D	25.17	-2.7994E-03	120.5	38.43	120.5	53.49	ACTIVE	0.000	-10.200	87.43	
1.000	1.000	125.9	0.000	0.000	Ug5_2_8_L_0						
53 D	25.66	-2.5623E-03	122.8	39.16	122.8	54.50	ACTIVE	0.000	-10.400	89.14	
1.000	1.000	128.3	0.000	0.000	Ug5_2_8_L_0						
54 D	26.15	-2.3374E-03	125.1	39.89	125.1	55.51	ACTIVE	0.000	-10.600	90.86	
1.000	1.000	130.8	0.000	0.000	Ug5_2_8_L_0						
55 D	26.64	-2.1243E-03	127.4	40.63	127.4	56.52	ACTIVE	0.000	-10.800	92.57	
1.000	1.000	133.2	0.000	0.000	Ug5_2_8_L_0						
56 D	27.13	-1.9225E-03	129.7	41.36	129.7	57.53	ACTIVE	0.000	-11.000	94.29	
1.000	1.000	135.7	0.000	0.000	Ug5_2_8_L_0						
57 D	27.62	-1.7314E-03	131.9	42.09	131.9	58.54	ACTIVE	0.000	-11.200	96.00	
1.000	1.000	138.1	0.000	0.000	Ug5_2_8_L_0						
58 D	28.11	-1.5506E-03	134.2	42.82	134.2	59.55	ACTIVE	0.000	-11.400	97.71	
1.000	1.000	140.5	0.000	0.000	Ug5_2_8_L_0						
59 D	28.60	-1.3795E-03	136.6	43.56	136.6	60.56	ACTIVE	0.000	-11.600	99.43	
1.000	1.000	143.0	0.000	0.000	Ug5_2_8_L_0						
60 D	29.09	-1.2175E-03	138.8	44.28	138.8	61.58	ACTIVE	0.000	-11.800	101.1	
1.000	1.000	145.4	0.000	0.000	Ug5_2_8_L_0						
61 D	29.58	-1.0641E-03	141.1	45.02	141.1	62.59	ACTIVE	0.000	-12.000	102.9	
1.000	1.000	147.9	0.000	0.000	Ug5_2_8_L_0						
62 D	33.20	-9.1868E-04	143.2	61.42	143.2	63.50	ACTIVE	0.000	-12.200	104.6	
1.000	1.000	166.0	0.000	0.000	Ug6_741_743_L_0						
63 D	33.74	-7.8063E-04	145.3	62.40	145.3	64.79	ACTIVE	0.000	-12.400	106.3	
1.000	1.000	168.7	0.000	0.000	Ug6_741_743_L_0						
64 D	34.27	-6.4937E-04	147.4	63.37	147.4	66.13	ACTIVE	0.000	-12.600	108.0	
1.000	1.000	171.4	0.000	0.000	Ug6_741_743_L_0						
65 D	34.81	-5.2430E-04	149.5	64.34	149.5	67.42	ACTIVE	0.000	-12.800	109.7	
1.000	1.000	174.1	0.000	0.000	Ug6_741_743_L_0						
66 D	35.34	-4.0484E-04	151.5	65.29	151.5	68.52	ACTIVE	0.000	-13.000	111.4	
1.000	1.000	176.7	0.000	0.000	Ug6_741_743_L_0						
67 D	35.88	-2.9044E-04	153.6	66.25	153.6	69.59	ACTIVE	0.000	-13.200	113.1	
1.000	1.000	179.4	0.000	0.000	Ug6_741_743_L_0						
68 D	36.68	-1.8054E-04	155.6	68.55	155.6	70.67	UL-RL	2.4701E+04	-13.400	114.9	
1.000	1.000	183.4	0.000	0.000	Ug6_741_743_L_0						
69 D	37.68	-7.4604E-05	157.7	71.84	157.7	71.90	UL-RL	2.4701E+04	-13.600	116.6	
1.000	1.000	188.4	0.000	0.000	Ug6_741_743_L_0						
70 D	38.41	2.7884E-05	159.7	73.75	159.7	73.76	UL-RL	2.4701E+04	-13.800	118.3	
1.000	1.000	192.0	0.000	0.000	Ug6_741_743_L_0						
71 D	39.12	1.2742E-04	161.7	75.61	161.7	75.61	V-C	8234.	-14.000	120.0	
1.000	1.000	195.6	0.000	0.000	Ug6_741_743_L_0						
72 D	39.83	2.2446E-04	163.8	77.43	163.8	77.43	V-C	8234.	-14.200	121.7	
1.000	1.000	199.1	0.000	0.000	Ug6_741_743_L_0						
73 D	40.53	3.1945E-04	165.8	79.23	165.8	79.23	V-C	8234.	-14.400	123.4	
1.000	1.000	202.7	0.000	0.000	Ug6_741_743_L_0						
74 D	41.23	4.1278E-04	167.9	81.01	167.9	81.01	V-C	8234.	-14.600	125.1	
1.000	1.000	206.2	0.000	0.000	Ug6_741_743_L_0						
75 D	41.93	5.0482E-04	169.9	82.79	169.9	82.79	V-C	8234.	-14.800	126.9	
1.000	1.000	209.6	0.000	0.000	Ug6_741_743_L_0						
76 D	42.62	5.9589E-04	172.0	84.55	172.0	84.55	V-C	8234.	-15.000	128.6	
1.000	1.000	213.1	0.000	0.000	Ug6_741_743_L_0						
77 D	43.32	6.8627E-04	174.0	86.30	174.0	86.30	V-C	8234.	-15.200	130.3	
1.000	1.000	216.6	0.000	0.000	Ug6_741_743_L_0						
78 D	44.01	7.7620E-04	176.1	88.05	176.1	88.05	V-C	8234.	-15.400	132.0	
1.000	1.000	220.1	0.000	0.000	Ug6_741_743_L_0						

79 D	44.70	8.6587E-04	178.2	89.80	178.2	89.80	V-C	8234.	-15.60	133.7
1.000	1.000	223.5	0.000	0.000	Ug6_741_743_L_0					
80 D	45.39	9.5542E-04	180.2	91.54	180.2	91.54	V-C	8234.	-15.80	135.4
1.000	1.000	227.0	0.000	0.000	Ug6_741_743_L_0					
81 D	23.04	1.0449E-03	182.3	93.29	182.3	93.29	V-C	8234.	-16.00	137.1
1.000	1.000	230.4	0.000	0.000	Ug6_741_743_L_0					

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|                PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*                |
|                                                                                                                                            |
|                                                                                                                                            |
|                NewProject.BaseDesignSection_28.A2M2R1_1787                                                                                   |
|                Exe Time :24 May 2018  18:25:48                                                                                             |
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New Project

STRESS RESULTS FOR GROUP NO. 2

0\_R :  
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 81  
CURRENT TIME IS 5.0000

HARDENING 2D SOIL ELEMENT

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

EL * FACTOR	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
1	0.000	--	--	--	--	--	REMOVED	--	0.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
2	0.000	--	--	--	--	--	REMOVED	--	-0.2000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
3	0.000	--	--	--	--	--	REMOVED	--	-0.4000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
4	0.000	--	--	--	--	--	REMOVED	--	-0.6000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
5	0.000	--	--	--	--	--	REMOVED	--	-0.8000	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	--	-1.200	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
8	0.000	--	--	--	--	--	REMOVED	--	-1.400	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
9	0.000	--	--	--	--	--	REMOVED	--	-1.600	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
10	0.000	--	--	--	--	--	REMOVED	--	-1.800	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
11	0.000	--	--	--	--	--	REMOVED	--	-2.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
12	0.000	--	--	--	--	--	REMOVED	--	-2.200	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
13	0.000	--	--	--	--	--	REMOVED	--	-2.400	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
14	0.000	--	--	--	--	--	REMOVED	--	-2.600	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
15	0.000	--	--	--	--	--	REMOVED	--	-2.800	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
16	0.000	--	--	--	--	--	REMOVED	--	-3.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
17	0.000	--	--	--	--	--	REMOVED	--	-3.200	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
18	0.000	--	--	--	--	--	REMOVED	--	-3.400	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
19	0.000	--	--	--	--	--	REMOVED	--	-3.600	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
20	0.000	--	--	--	--	--	REMOVED	--	-3.800	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
21 D	0.000	1.6802E-02	0.000	0.000	40.00	43.78	PASSIVE	0.000	-4.000	0.000	
1.000	1.000	0.000	0.000	0.000	Ug5_2_8_L_0						
22 D	2.027	1.6196E-02	1.714	7.848	42.00	49.25	PASSIVE	0.000	-4.200	2.286	
1.000	1.000	10.13	0.000	0.000	Ug5_2_8_L_0						
23 D	4.053	1.5595E-02	3.429	15.70	44.00	57.46	PASSIVE	0.000	-4.400	4.571	
1.000	1.000	20.27	0.000	0.000	Ug5_2_8_L_0						
24 D	6.080	1.4999E-02	5.143	23.54	46.00	65.67	PASSIVE	0.000	-4.600	6.857	
1.000	1.000	30.40	0.000	0.000	Ug5_2_8_L_0						
25 D	8.107	1.4409E-02	6.857	31.39	48.00	73.88	PASSIVE	0.000	-4.800	9.143	
1.000	1.000	40.53	0.000	0.000	Ug5_2_8_L_0						
26 D	10.13	1.3825E-02	8.571	39.24	50.00	82.09	PASSIVE	0.000	-5.000	11.43	
1.000	1.000	50.67	0.000	0.000	Ug5_2_8_L_0						
27 D	12.16	1.3248E-02	10.29	47.09	52.00	80.20	PASSIVE	0.000	-5.200	13.71	
1.000	1.000	60.80	0.000	0.000	Ug5_2_8_L_0						
28 D	14.19	1.2680E-02	12.00	54.94	54.00	77.91	PASSIVE	0.000	-5.400	16.00	
1.000	1.000	70.94	0.000	0.000	Ug5_2_8_L_0						
29 D	16.21	1.2120E-02	13.71	62.78	56.00	75.71	PASSIVE	0.000	-5.600	18.29	
1.000	1.000	81.07	0.000	0.000	Ug5_2_8_L_0						
30 D	18.24	1.1569E-02	15.43	70.63	58.00	73.63	PASSIVE	0.000	-5.800	20.57	
1.000	1.000	91.20	0.000	0.000	Ug5_2_8_L_0						
31 D	20.27	1.1028E-02	17.14	78.48	60.00	78.48	PASSIVE	0.000	-6.000	22.86	
1.000	1.000	101.3	0.000	0.000	Ug5_2_8_L_0						
32 D	22.29	1.0498E-02	18.86	86.33	62.00	86.33	PASSIVE	0.000	-6.200	25.14	
1.000	1.000	111.5	0.000	0.000	Ug5_2_8_L_0						
33 D	24.32	9.9803E-03	20.57	94.18	64.00	94.18	PASSIVE	0.000	-6.400	27.43	

1.000	1.000	121.6	0.000	0.000	Ug5_2_8_L_0					
34 D	26.35	9.4742E-03	22.29	102.0	66.00	102.0	PASSIVE	0.000	-6.600	29.71
1.000	1.000	131.7	0.000	0.000	Ug5_2_8_L_0					
35 D	28.37	8.9810E-03	24.00	109.9	68.00	109.9	PASSIVE	0.000	-6.800	32.00
1.000	1.000	141.9	0.000	0.000	Ug5_2_8_L_0					
36 D	30.40	8.5011E-03	25.71	117.7	70.00	117.7	PASSIVE	0.000	-7.000	34.29
1.000	1.000	152.0	0.000	0.000	Ug5_2_8_L_0					
37 D	32.43	8.0350E-03	27.43	125.6	72.00	125.6	PASSIVE	0.000	-7.200	36.57
1.000	1.000	162.1	0.000	0.000	Ug5_2_8_L_0					
38 D	32.21	7.5830E-03	29.14	122.2	74.00	122.2	V-C	1.0591E+04	-7.400	38.86
1.000	1.000	161.1	0.000	0.000	Ug5_2_8_L_0					
39 D	31.81	7.1456E-03	30.86	117.9	76.00	117.9	V-C	1.0591E+04	-7.600	41.14
1.000	1.000	159.0	0.000	0.000	Ug5_2_8_L_0					
40 D	31.44	6.7229E-03	32.57	113.8	78.00	113.8	V-C	1.0591E+04	-7.800	43.43
1.000	1.000	157.2	0.000	0.000	Ug5_2_8_L_0					
41 D	31.11	6.3151E-03	34.29	109.8	80.00	109.8	V-C	1.0591E+04	-8.000	45.71
1.000	1.000	155.5	0.000	0.000	Ug5_2_8_L_0					
42 D	30.82	5.9223E-03	36.00	106.1	82.00	106.1	V-C	1.0591E+04	-8.200	48.00
1.000	1.000	154.1	0.000	0.000	Ug5_2_8_L_0					
43 D	30.57	5.5445E-03	37.71	102.6	84.00	102.6	V-C	1.0591E+04	-8.400	50.29
1.000	1.000	152.9	0.000	0.000	Ug5_2_8_L_0					
44 D	30.36	5.1817E-03	39.43	99.23	86.00	99.23	V-C	1.0591E+04	-8.600	52.57
1.000	1.000	151.8	0.000	0.000	Ug5_2_8_L_0					
45 D	30.19	4.8339E-03	41.14	96.08	88.00	96.08	V-C	1.0591E+04	-8.800	54.86
1.000	1.000	150.9	0.000	0.000	Ug5_2_8_L_0					
46 D	30.05	4.5008E-03	42.86	93.12	90.00	93.12	V-C	1.0591E+04	-9.000	57.14
1.000	1.000	150.3	0.000	0.000	Ug5_2_8_L_0					
47 D	29.96	4.1823E-03	44.57	90.36	92.00	90.36	V-C	1.0591E+04	-9.200	59.43
1.000	1.000	149.8	0.000	0.000	Ug5_2_8_L_0					
48 D	29.90	3.8782E-03	46.29	87.77	94.00	87.77	V-C	1.0591E+04	-9.400	61.71
1.000	1.000	149.5	0.000	0.000	Ug5_2_8_L_0					
49 D	29.87	3.5882E-03	48.00	85.36	96.00	85.36	V-C	1.0591E+04	-9.600	64.00
1.000	1.000	149.4	0.000	0.000	Ug5_2_8_L_0					
50 D	29.88	3.3119E-03	49.71	83.13	98.00	83.13	V-C	1.0591E+04	-9.800	66.29
1.000	1.000	149.4	0.000	0.000	Ug5_2_8_L_0					
51 D	29.93	3.0491E-03	51.43	81.07	100.00	81.07	V-C	1.0591E+04	-10.000	68.57
1.000	1.000	149.6	0.000	0.000	Ug5_2_8_L_0					
52 D	30.01	2.7994E-03	53.14	79.17	102.0	79.17	V-C	1.0591E+04	-10.200	70.86
1.000	1.000	150.0	0.000	0.000	Ug5_2_8_L_0					
53 D	30.12	2.5623E-03	54.86	77.43	104.0	77.43	V-C	1.0591E+04	-10.400	73.14
1.000	1.000	150.6	0.000	0.000	Ug5_2_8_L_0					
54 D	30.26	2.3374E-03	56.57	75.85	106.0	75.85	V-C	1.0591E+04	-10.600	75.43
1.000	1.000	151.3	0.000	0.000	Ug5_2_8_L_0					
55 D	30.42	2.1243E-03	58.29	74.41	108.0	74.41	V-C	1.0591E+04	-10.800	77.71
1.000	1.000	152.1	0.000	0.000	Ug5_2_8_L_0					
56 D	30.62	1.9225E-03	60.00	73.11	110.0	73.11	V-C	1.0591E+04	-11.000	80.00
1.000	1.000	153.1	0.000	0.000	Ug5_2_8_L_0					
57 D	30.84	1.7314E-03	61.71	71.94	112.0	71.94	V-C	1.0591E+04	-11.200	82.29
1.000	1.000	154.2	0.000	0.000	Ug5_2_8_L_0					
58 D	31.09	1.5506E-03	63.43	70.90	114.0	70.90	V-C	1.0591E+04	-11.400	84.57
1.000	1.000	155.5	0.000	0.000	Ug5_2_8_L_0					
59 D	31.37	1.3795E-03	65.14	69.97	116.0	69.97	V-C	1.0591E+04	-11.600	86.86
1.000	1.000	156.8	0.000	0.000	Ug5_2_8_L_0					
60 D	31.66	1.2175E-03	66.86	69.16	118.0	69.16	V-C	1.0591E+04	-11.800	89.14
1.000	1.000	158.3	0.000	0.000	Ug5_2_8_L_0					
61 D	31.98	1.0641E-03	68.57	68.45	120.0	68.45	V-C	1.0591E+04	-12.000	91.43
1.000	1.000	159.9	0.000	0.000	Ug5_2_8_L_0					
62 D	31.68	9.1868E-04	70.09	64.69	121.8	64.69	V-C	7686.	-12.200	93.71
1.000	1.000	158.4	0.000	0.000	Ug6_741_743_L_0					
63 D	32.10	7.8063E-04	71.60	64.48	123.6	64.48	V-C	7686.	-12.400	96.00
1.000	1.000	160.5	0.000	0.000	Ug6_741_743_L_0					
64 D	32.52	6.4937E-04	73.11	64.32	125.4	64.32	V-C	7686.	-12.600	98.29
1.000	1.000	162.6	0.000	0.000	Ug6_741_743_L_0					
65 D	32.96	5.2430E-04	74.63	64.21	127.2	64.21	V-C	7686.	-12.800	100.6
1.000	1.000	164.8	0.000	0.000	Ug6_741_743_L_0					
66 D	33.04	4.0484E-04	76.14	62.32	129.0	65.07	UL-RL	2.3057E+04	-13.000	102.9
1.000	1.000	165.2	0.000	0.000	Ug6_741_743_L_0					
67 D	33.13	2.9044E-04	77.66	60.51	130.8	65.95	UL-RL	2.3057E+04	-13.200	105.1
1.000	1.000	165.7	0.000	0.000	Ug6_741_743_L_0					
68 D	33.25	1.8054E-04	79.17	58.81	132.6	66.84	UL-RL	2.3057E+04	-13.400	107.4
1.000	1.000	166.2	0.000	0.000	Ug6_741_743_L_0					
69 D	33.39	7.4604E-05	80.69	57.21	134.4	67.73	UL-RL	2.3057E+04	-13.600	109.7
1.000	1.000	166.9	0.000	0.000	Ug6_741_743_L_0					
70 D	33.54	-2.7884E-05	82.20	55.70	136.2	68.61	UL-RL	2.3057E+04	-13.800	112.0
1.000	1.000	167.7	0.000	0.000	Ug6_741_743_L_0					
71 D	33.71	-1.2742E-04	83.71	54.26	138.0	69.50	UL-RL	2.3057E+04	-14.000	114.3
1.000	1.000	168.5	0.000	0.000	Ug6_741_743_L_0					
72 D	33.89	-2.2446E-04	85.23	52.88	139.8	70.38	UL-RL	2.3057E+04	-14.200	116.6
1.000	1.000	169.5	0.000	0.000	Ug6_741_743_L_0					
73 D	34.08	-3.1945E-04	86.74	51.56	141.6	71.27	UL-RL	2.3057E+04	-14.400	118.9
1.000	1.000	170.4	0.000	0.000	Ug6_741_743_L_0					
74 D	34.28	-4.1278E-04	88.26	50.27	143.4	72.16	UL-RL	2.3057E+04	-14.600	121.1
1.000	1.000	171.4	0.000	0.000	Ug6_741_743_L_0					
75 D	34.49	-5.0482E-04	89.77	49.02	145.2	73.05	UL-RL	2.3057E+04	-14.800	123.4
1.000	1.000	172.4	0.000	0.000	Ug6_741_743_L_0					
76 D	34.70	-5.9589E-04	91.29	47.78	147.0	73.94	UL-RL	2.3057E+04	-15.000	125.7
1.000	1.000	173.5	0.000	0.000	Ug6_741_743_L_0					
77 D	34.91	-6.8627E-04	92.80	46.57	148.8	74.82	UL-RL	2.3057E+04	-15.200	128.0
1.000	1.000	174.6	0.000	0.000	Ug6_741_743_L_0					
78 D	35.13	-7.7620E-04	94.31	45.36	150.6	75.71	UL-RL	2.3057E+04	-15.400	130.3
1.000	1.000	175.7	0.000	0.000	Ug6_741_743_L_0					

79 D	35.35	-8.6587E-04	95.83	44.17	152.4	76.60	UL-RL	2.3057E+04	-15.60	132.6
1.000	1.000	176.7	0.000	0.000	Ug6_741_743_L_0					
80 D	35.57	-9.5542E-04	97.34	42.97	154.2	77.49	UL-RL	2.3057E+04	-15.80	134.9
1.000	1.000	177.8	0.000	0.000	Ug6_741_743_L_0					
81 D	17.89	-1.0449E-03	98.86	41.78	156.0	78.38	UL-RL	2.3057E+04	-16.00	137.1
1.000	1.000	178.9	0.000	0.000	Ug6_741_743_L_0					



70	-81.729	81.729	-103.64	87.290
71	-76.317	76.317	-87.290	72.027
72	-70.380	70.380	-72.027	57.951
73	-63.931	63.931	-57.951	45.164
74	-56.982	56.982	-45.164	33.768
75	-49.542	49.542	-33.768	23.860
76	-41.618	41.618	-23.860	15.536
77	-33.214	33.214	-15.536	8.8931
78	-24.334	24.334	-8.8931	4.0262
79	-14.980	14.980	-4.0262	1.0303
80	-5.1511	5.1511	-1.0303	1.87285E-11

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ITER      0  RNORM = 0.000      RMNORM= 0.000
            RINORM=0.1044E+07  RIMNOR=0.1478E+08
            RENORM= 444.0      REMNOR=0.3056E-17  RATIO =0.2063E-01  TOLER =0.1000E-03  NOT CONVERGED
            RFMAX = 132.5      RMMAX = 528.3
            RTSMAL=0.1000E-02  RMSMAL=0.1000E-02
            RDT =0.1044E+07    RDR =0.1478E+08
            RATIOI=0.2063E-01  RATIOOR= 0.000
            MAX UN= 5.319      IEQ= 73 NODE      37 DOF      1 Y-DISPL.F
            MIN UN=-.8312E-01  IEQ= 41 NODE      21 DOF      1 Y-DISPL.F
            NO. OF CONTACT CONSTRAINT VIOLATIONS      0

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ITER      2  RNORM = 0.000      RMNORM= 0.000
            RINORM=0.1044E+07  RIMNOR=0.1478E+08
            RENORM= 182.1      REMNOR=0.2489E-17  RATIO =0.1321E-01  TOLER =0.1000E-03  NOT CONVERGED
            RFMAX = 132.5      RMMAX = 528.3
            RTSMAL=0.1000E-02  RMSMAL=0.1000E-02
            RDT =0.1044E+07    RDR =0.1478E+08
            RATIOI=0.1321E-01  RATIOOR= 0.000
            MAX UN= 2.842      IEQ= 77 NODE      39 DOF      1 Y-DISPL.F
            MIN UN=-.9310E-08  IEQ= 5 NODE      3 DOF      1 Y-DISPL.F
            NO. OF CONTACT CONSTRAINT VIOLATIONS      0

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ITER      3  RNORM = 0.000      RMNORM= 0.000
            RINORM=0.1044E+07  RIMNOR=0.1478E+08
            RENORM= 480.6      REMNOR=0.3134E-17  RATIO =0.2146E-01  TOLER =0.1000E-03  NOT CONVERGED
            RFMAX = 132.5      RMMAX = 528.3
            RTSMAL=0.1000E-02  RMSMAL=0.1000E-02
            RDT =0.1044E+07    RDR =0.1478E+08
            RATIOI=0.2146E-01  RATIOOR= 0.000
            MAX UN= 15.47      IEQ= 5 NODE      3 DOF      1 Y-DISPL.F
            MIN UN=-.7587      IEQ= 159 NODE     80 DOF      1 Y-DISPL.F
            NO. OF CONTACT CONSTRAINT VIOLATIONS      0

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ITER      4  RNORM = 0.000      RMNORM= 0.000
            RINORM=0.1044E+07  RIMNOR=0.1478E+08
            RENORM= 101.6      REMNOR=0.2640E-16  RATIO =0.9869E-02  TOLER =0.1000E-03  NOT CONVERGED
            RFMAX = 132.5      RMMAX = 528.3
            RTSMAL=0.1000E-02  RMSMAL=0.1000E-02
            RDT =0.1044E+07    RDR =0.1478E+08
            RATIOI=0.9869E-02  RATIOOR= 0.000
            MAX UN= 6.572      IEQ= 81 NODE      41 DOF      1 Y-DISPL.F
            MIN UN=-4.025      IEQ= 157 NODE     79 DOF      1 Y-DISPL.F
            NO. OF CONTACT CONSTRAINT VIOLATIONS      0

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ITER      5  RNORM = 0.000      RMNORM= 0.000
            RINORM=0.1044E+07  RIMNOR=0.1478E+08
            RENORM= 2.249      REMNOR=0.9421E-17  RATIO =0.1468E-02  TOLER =0.1000E-03  NOT CONVERGED
            RFMAX = 132.5      RMMAX = 528.3
            RTSMAL=0.1000E-02  RMSMAL=0.1000E-02
            RDT =0.1044E+07    RDR =0.1478E+08
            RATIOI=0.1468E-02  RATIOOR= 0.000
            MAX UN=0.7203      IEQ= 131 NODE     66 DOF      1 Y-DISPL.F
            MIN UN=-1.216      IEQ= 147 NODE     74 DOF      1 Y-DISPL.F
            NO. OF CONTACT CONSTRAINT VIOLATIONS      0

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ITER      6  RNORM = 0.000      RMNORM= 0.000
            RINORM=0.1044E+07  RIMNOR=0.1478E+08
            RENORM=0.1746E-14  REMNOR=0.1154E-16  RATIO =0.4090E-10  TOLER =0.1000E-03  CONVERGED !
            RFMAX = 132.5      RMMAX = 528.3
            RTSMAL=0.1000E-02  RMSMAL=0.1000E-02
            RDT =0.1044E+07    RDR =0.1478E+08
            RATIOI=0.4090E-10  RATIOOR= 0.000
            MAX UN=0.1303E-07  IEQ= 25 NODE      13 DOF      1 Y-DISPL.F
            MIN UN=-.1674E-07  IEQ= 15 NODE      8 DOF      1 Y-DISPL.F
            NO. OF CONTACT CONSTRAINT VIOLATIONS      0

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|                PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
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New Project
SOLUTION REACHED USING      6 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   6   ( AT TIME   6.000   )

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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	5.1359735E-02	-5.0006548E-03	
2	5.0359604E-02	-5.0006548E-03	
3	4.9359474E-02	-5.0006479E-03	
4	4.8359347E-02	-5.0006134E-03	
5	4.7359233E-02	-5.0005167E-03	
6	4.6359148E-02	-5.0003091E-03	
7	4.5359121E-02	-4.9999279E-03	
8	4.4359193E-02	-4.9992961E-03	
9	4.3359425E-02	-4.9983226E-03	
10	4.2359894E-02	-4.9969019E-03	
11	4.1360702E-02	-4.9949142E-03	
12	4.0361975E-02	-4.9922256E-03	
13	3.9363868E-02	-4.9886880E-03	
14	3.8366567E-02	-4.9841392E-03	
15	3.7370292E-02	-4.9784032E-03	
16	3.6375298E-02	-4.9712898E-03	
17	3.5381876E-02	-4.9625947E-03	
18	3.4390375E-02	-4.9520999E-03	
19	3.3401172E-02	-4.9395734E-03	
20	3.2414697E-02	-4.9247692E-03	
21	3.1431438E-02	-4.9074276E-03	
22	3.0451919E-02	-4.8872748E-03	
23	2.9476735E-02	-4.8640232E-03	
24	2.8506536E-02	-4.8373717E-03	
25	2.7542033E-02	-4.8070190E-03	
26	2.6583993E-02	-4.7726930E-03	
27	2.5633241E-02	-4.7341647E-03	
28	2.4690625E-02	-4.6912474E-03	
29	2.3757044E-02	-4.6437982E-03	
30	2.2833414E-02	-4.5917170E-03	
31	2.1920670E-02	-4.5349465E-03	
32	2.1019754E-02	-4.4734732E-03	
33	2.0131597E-02	-4.4073254E-03	
34	1.9257130E-02	-4.3365755E-03	
35	1.8397265E-02	-4.2613386E-03	
36	1.7552884E-02	-4.1817729E-03	
37	1.6724836E-02	-4.0980799E-03	
38	1.5913915E-02	-4.0105032E-03	
39	1.5120874E-02	-3.9193304E-03	
40	1.4346400E-02	-3.8248921E-03	
41	1.3591110E-02	-3.7275615E-03	
42	1.2855541E-02	-3.6277554E-03	
43	1.2140142E-02	-3.5259333E-03	
44	1.1445268E-02	-3.4225979E-03	
45	1.0771171E-02	-3.3182955E-03	
46	1.0117981E-02	-3.2135760E-03	
47	9.4857338E-03	-3.1089572E-03	
48	8.8743594E-03	-3.0049224E-03	
49	8.2836958E-03	-2.9019229E-03	
50	7.7134961E-03	-2.8003791E-03	
51	7.1634240E-03	-2.7006804E-03	
52	6.6330637E-03	-2.6031870E-03	
53	6.1219912E-03	-2.5082435E-03	
54	5.6296022E-03	-2.4161472E-03	
55	5.1553232E-03	-2.3271877E-03	
56	4.6985005E-03	-2.2416267E-03	
57	4.2584301E-03	-2.1597032E-03	
58	3.8343622E-03	-2.0816357E-03	
59	3.4255055E-03	-2.0076224E-03	
60	3.0310310E-03	-1.9378426E-03	
61	2.6500755E-03	-1.8724573E-03	
62	2.2817455E-03	-1.8116106E-03	
63	1.9251245E-03	-1.7553655E-03	
64	1.5792935E-03	-1.7037065E-03	
65	1.2433381E-03	-1.6566049E-03	
66	9.1635082E-04	-1.6140148E-03	
67	5.9743575E-04	-1.5758707E-03	
68	2.8571163E-04	-1.5420902E-03	
69	-1.9684082E-05	-1.5125660E-03	
70	-3.1958871E-04	-1.4871510E-03	
71	-6.1480561E-04	-1.4656531E-03	
72	-9.0609547E-04	-1.4478379E-03	
73	-1.1941677E-03	-1.4334265E-03	

74	-1.4796715E-03	-1.4220968E-03
75	-1.7631886E-03	-1.4135000E-03
76	-2.0452298E-03	-1.4072771E-03
77	-2.3262331E-03	-1.4030585E-03
78	-2.6065614E-03	-1.4004639E-03
79	-2.8865009E-03	-1.3991029E-03
80	-3.1662581E-03	-1.3985746E-03
81	-3.4459728E-03	-1.3984680E-03



1.000	1.000	78.41	0.000	0.000	Ug5_2_8_L_0						
34 D	16.17	-1.9257E-02	80.39	25.64	80.39	35.48	ACTIVE	0.000	-6.600	55.20	
1.000	1.000	80.84	0.000	0.000	Ug5_2_8_L_0						
35 D	16.65	-1.8397E-02	82.76	26.40	82.76	36.47	ACTIVE	0.000	-6.800	56.87	
1.000	1.000	83.27	0.000	0.000	Ug5_2_8_L_0						
36 D	17.14	-1.7553E-02	85.12	27.15	85.12	37.46	ACTIVE	0.000	-7.000	58.55	
1.000	1.000	85.70	0.000	0.000	Ug5_2_8_L_0						
37 D	17.62	-1.6725E-02	87.43	27.89	87.43	38.46	ACTIVE	0.000	-7.200	60.22	
1.000	1.000	88.11	0.000	0.000	Ug5_2_8_L_0						
38 D	18.11	-1.5914E-02	89.80	28.65	89.80	39.45	ACTIVE	0.000	-7.400	61.89	
1.000	1.000	90.54	0.000	0.000	Ug5_2_8_L_0						
39 D	18.59	-1.5121E-02	92.16	29.40	92.16	40.45	ACTIVE	0.000	-7.600	63.56	
1.000	1.000	92.96	0.000	0.000	Ug5_2_8_L_0						
40 D	19.07	-1.4346E-02	94.47	30.14	94.47	41.45	ACTIVE	0.000	-7.800	65.24	
1.000	1.000	95.37	0.000	0.000	Ug5_2_8_L_0						
41 D	19.56	-1.3591E-02	96.83	30.89	96.83	42.45	ACTIVE	0.000	-8.000	66.91	
1.000	1.000	97.80	0.000	0.000	Ug5_2_8_L_0						
42 D	20.04	-1.2856E-02	99.19	31.64	99.19	43.45	ACTIVE	0.000	-8.200	68.58	
1.000	1.000	100.2	0.000	0.000	Ug5_2_8_L_0						
43 D	20.53	-1.2140E-02	101.5	32.38	101.5	44.45	ACTIVE	0.000	-8.400	70.25	
1.000	1.000	102.6	0.000	0.000	Ug5_2_8_L_0						
44 D	21.01	-1.1445E-02	103.9	33.13	103.9	45.45	ACTIVE	0.000	-8.600	71.93	
1.000	1.000	105.1	0.000	0.000	Ug5_2_8_L_0						
45 D	21.50	-1.0771E-02	106.2	33.88	106.2	46.45	ACTIVE	0.000	-8.800	73.60	
1.000	1.000	107.5	0.000	0.000	Ug5_2_8_L_0						
46 D	21.98	-1.0118E-02	108.6	34.63	108.6	47.45	ACTIVE	0.000	-9.000	75.27	
1.000	1.000	109.9	0.000	0.000	Ug5_2_8_L_0						
47 D	22.46	-9.4857E-03	110.9	35.37	110.9	48.46	ACTIVE	0.000	-9.200	76.95	
1.000	1.000	112.3	0.000	0.000	Ug5_2_8_L_0						
48 D	22.95	-8.8744E-03	113.2	36.12	113.2	49.46	ACTIVE	0.000	-9.400	78.62	
1.000	1.000	114.7	0.000	0.000	Ug5_2_8_L_0						
49 D	23.43	-8.2837E-03	115.6	36.87	115.6	50.47	ACTIVE	0.000	-9.600	80.29	
1.000	1.000	117.2	0.000	0.000	Ug5_2_8_L_0						
50 D	23.91	-7.7135E-03	117.9	37.61	117.9	51.47	ACTIVE	0.000	-9.800	81.96	
1.000	1.000	119.6	0.000	0.000	Ug5_2_8_L_0						
51 D	24.40	-7.1634E-03	120.2	38.36	120.2	52.48	ACTIVE	0.000	-10.000	83.64	
1.000	1.000	122.0	0.000	0.000	Ug5_2_8_L_0						
52 D	24.88	-6.6331E-03	122.6	39.11	122.6	53.49	ACTIVE	0.000	-10.200	85.31	
1.000	1.000	124.4	0.000	0.000	Ug5_2_8_L_0						
53 D	25.37	-6.1220E-03	124.9	39.85	124.9	54.50	ACTIVE	0.000	-10.400	86.98	
1.000	1.000	126.8	0.000	0.000	Ug5_2_8_L_0						
54 D	25.85	-5.6296E-03	127.3	40.60	127.3	55.51	ACTIVE	0.000	-10.600	88.65	
1.000	1.000	129.3	0.000	0.000	Ug5_2_8_L_0						
55 D	26.33	-5.1553E-03	129.6	41.35	129.6	56.52	ACTIVE	0.000	-10.800	90.33	
1.000	1.000	131.7	0.000	0.000	Ug5_2_8_L_0						
56 D	26.82	-4.6985E-03	132.0	42.09	132.0	57.53	ACTIVE	0.000	-11.000	92.00	
1.000	1.000	134.1	0.000	0.000	Ug5_2_8_L_0						
57 D	27.30	-4.2584E-03	134.3	42.83	134.3	58.54	ACTIVE	0.000	-11.200	93.67	
1.000	1.000	136.5	0.000	0.000	Ug5_2_8_L_0						
58 D	27.79	-3.8344E-03	136.6	43.58	136.6	59.55	ACTIVE	0.000	-11.400	95.35	
1.000	1.000	138.9	0.000	0.000	Ug5_2_8_L_0						
59 D	28.27	-3.4255E-03	139.0	44.33	139.0	60.56	ACTIVE	0.000	-11.600	97.02	
1.000	1.000	141.3	0.000	0.000	Ug5_2_8_L_0						
60 D	28.75	-3.0310E-03	141.3	45.07	141.3	61.58	ACTIVE	0.000	-11.800	98.69	
1.000	1.000	143.8	0.000	0.000	Ug5_2_8_L_0						
61 D	29.24	-2.6501E-03	143.6	45.81	143.6	62.59	ACTIVE	0.000	-12.000	100.4	
1.000	1.000	146.2	0.000	0.000	Ug5_2_8_L_0						
62 D	32.93	-2.2817E-03	145.8	62.61	145.8	63.50	ACTIVE	0.000	-12.200	102.0	
1.000	1.000	164.6	0.000	0.000	Ug6_741_743_L_0						
63 D	33.46	-1.9251E-03	147.9	63.61	147.9	64.79	ACTIVE	0.000	-12.400	103.7	
1.000	1.000	167.3	0.000	0.000	Ug6_741_743_L_0						
64 D	34.07	-1.5793E-03	150.0	64.94	150.0	66.13	UL-RL	2.1956E+04	-12.600	105.4	
1.000	1.000	170.3	0.000	0.000	Ug6_741_743_L_0						
65 D	34.81	-1.2433E-03	152.1	66.99	152.1	67.42	UL-RL	2.1956E+04	-12.800	107.1	
1.000	1.000	174.0	0.000	0.000	Ug6_741_743_L_0						
66 D	35.48	-9.1635E-04	154.2	68.69	154.2	68.69	V-C	7319.	-13.000	108.7	
1.000	1.000	177.4	0.000	0.000	Ug6_741_743_L_0						
67 D	36.10	-5.9744E-04	156.3	70.09	156.3	70.09	V-C	7319.	-13.200	110.4	
1.000	1.000	180.5	0.000	0.000	Ug6_741_743_L_0						
68 D	36.86	-2.8571E-04	158.4	72.21	158.4	72.21	V-C	7319.	-13.400	112.1	
1.000	1.000	184.3	0.000	0.000	Ug6_741_743_L_0						
69 D	37.81	1.9684E-05	160.5	75.31	160.5	75.31	V-C	7319.	-13.600	113.7	
1.000	1.000	189.1	0.000	0.000	Ug6_741_743_L_0						
70 D	38.68	3.1959E-04	162.6	77.97	162.6	77.97	V-C	7319.	-13.800	115.4	
1.000	1.000	193.4	0.000	0.000	Ug6_741_743_L_0						
71 D	39.54	6.1481E-04	164.7	80.63	164.7	80.63	V-C	7319.	-14.000	117.1	
1.000	1.000	197.7	0.000	0.000	Ug6_741_743_L_0						
72 D	40.53	9.0610E-04	166.7	83.89	166.7	83.89	V-C	7319.	-14.200	118.8	
1.000	1.000	202.7	0.000	0.000	Ug6_741_743_L_0						
73 D	41.51	1.1942E-03	168.8	87.13	168.8	87.13	V-C	7319.	-14.400	120.4	
1.000	1.000	207.6	0.000	0.000	Ug6_741_743_L_0						
74 D	42.49	1.4797E-03	170.9	90.34	170.9	90.34	V-C	7319.	-14.600	122.1	
1.000	1.000	212.4	0.000	0.000	Ug6_741_743_L_0						
75 D	43.46	1.7632E-03	173.0	93.53	173.0	93.53	V-C	7319.	-14.800	123.8	
1.000	1.000	217.3	0.000	0.000	Ug6_741_743_L_0						
76 D	44.43	2.0452E-03	175.1	96.71	175.1	96.71	V-C	7319.	-15.000	125.5	
1.000	1.000	222.2	0.000	0.000	Ug6_741_743_L_0						
77 D	45.40	2.3262E-03	177.2	99.88	177.2	99.88	V-C	7319.	-15.200	127.1	
1.000	1.000	227.0	0.000	0.000	Ug6_741_743_L_0						
78 D	46.37	2.6066E-03	179.3	103.0	179.3	103.0	V-C	7319.	-15.400	128.8	
1.000	1.000	231.8	0.000	0.000	Ug6_741_743_L_0						

79 D	47.34	2.8865E-03	181.4	106.2	181.4	106.2	V-C	7319.	-15.60	130.5
1.000	1.000	236.7	0.000	0.000	Ug6_741_743_L_0					
80 D	48.30	3.1663E-03	183.5	109.4	183.5	109.4	V-C	7319.	-15.80	132.1
1.000	1.000	241.5	0.000	0.000	Ug6_741_743_L_0					
81 D	24.63	3.4460E-03	185.6	112.5	185.6	112.5	V-C	7319.	-16.00	133.8
1.000	1.000	246.3	0.000	0.000	Ug6_741_743_L_0					

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION *Build date:Jul 11, 2017*          |
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New Project

STRESS RESULTS FOR GROUP NO. 2

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O_R          :
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 81
CURRENT TIME IS 6.0000

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HARDENING 2D SOIL ELEMENT

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

EL * FACTOR	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
1	0.000	--	--	--	--	--	REMOVED	--	0.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
2	0.000	--	--	--	--	--	REMOVED	--	-0.2000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
3	0.000	--	--	--	--	--	REMOVED	--	-0.4000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
4	0.000	--	--	--	--	--	REMOVED	--	-0.6000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
5	0.000	--	--	--	--	--	REMOVED	--	-0.8000	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	--	-1.200	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
8	0.000	--	--	--	--	--	REMOVED	--	-1.400	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
9	0.000	--	--	--	--	--	REMOVED	--	-1.600	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
10	0.000	--	--	--	--	--	REMOVED	--	-1.800	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
11	0.000	--	--	--	--	--	REMOVED	--	-2.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
12	0.000	--	--	--	--	--	REMOVED	--	-2.200	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
13	0.000	--	--	--	--	--	REMOVED	--	-2.400	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
14	0.000	--	--	--	--	--	REMOVED	--	-2.600	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
15	0.000	--	--	--	--	--	REMOVED	--	-2.800	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
16	0.000	--	--	--	--	--	REMOVED	--	-3.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
17	0.000	--	--	--	--	--	REMOVED	--	-3.200	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
18	0.000	--	--	--	--	--	REMOVED	--	-3.400	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
19	0.000	--	--	--	--	--	REMOVED	--	-3.600	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
20	0.000	--	--	--	--	--	REMOVED	--	-3.800	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
21	0.000	--	--	--	--	--	REMOVED	--	-4.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
22	0.000	--	--	--	--	--	REMOVED	--	-4.200	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
23	0.000	--	--	--	--	--	REMOVED	--	-4.400	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
24 D	0.9985	2.8507E-02	0.8364	3.829	46.00	65.67	PASSIVE	0.000	-4.600	1.164	
1.000	1.000	4.993	0.000	0.000	Ug5_2_8_L_0						
25 D	2.996	2.7542E-02	2.509	11.49	48.00	73.88	PASSIVE	0.000	-4.800	3.491	
1.000	1.000	14.98	0.000	0.000	Ug5_2_8_L_0						
26 D	4.993	2.6584E-02	4.182	19.14	50.00	82.09	PASSIVE	0.000	-5.000	5.818	
1.000	1.000	24.96	0.000	0.000	Ug5_2_8_L_0						
27 D	6.990	2.5633E-02	5.855	26.80	52.00	80.20	PASSIVE	0.000	-5.200	8.145	
1.000	1.000	34.95	0.000	0.000	Ug5_2_8_L_0						
28 D	8.987	2.4691E-02	7.527	34.46	54.00	77.91	PASSIVE	0.000	-5.400	10.47	
1.000	1.000	44.93	0.000	0.000	Ug5_2_8_L_0						
29 D	10.98	2.3757E-02	9.200	42.12	56.00	75.71	PASSIVE	0.000	-5.600	12.80	
1.000	1.000	54.92	0.000	0.000	Ug5_2_8_L_0						
30 D	12.98	2.2833E-02	10.87	49.78	58.00	73.63	PASSIVE	0.000	-5.800	15.13	
1.000	1.000	64.90	0.000	0.000	Ug5_2_8_L_0						
31 D	14.98	2.1921E-02	12.55	57.43	60.00	78.48	PASSIVE	0.000	-6.000	17.45	
1.000	1.000	74.89	0.000	0.000	Ug5_2_8_L_0						
32 D	16.97	2.1020E-02	14.22	65.09	62.00	86.33	PASSIVE	0.000	-6.200	19.78	
1.000	1.000	84.87	0.000	0.000	Ug5_2_8_L_0						
33 D	18.97	2.0132E-02	15.89	72.75	64.00	94.18	PASSIVE	0.000	-6.400	22.11	

1.000	1.000	94.86	0.000	0.000	Ug5_2_8_L_0						
34 D	20.97	1.9257E-02	17.56	80.41	66.00	102.0	PASSIVE	0.000	-6.600	24.44	
1.000	1.000	104.8	0.000	0.000	Ug5_2_8_L_0						
35 D	22.97	1.8397E-02	19.24	88.06	68.00	109.9	PASSIVE	0.000	-6.800	26.76	
1.000	1.000	114.8	0.000	0.000	Ug5_2_8_L_0						
36 D	24.96	1.7553E-02	20.91	95.72	70.00	117.7	PASSIVE	0.000	-7.000	29.09	
1.000	1.000	124.8	0.000	0.000	Ug5_2_8_L_0						
37 D	26.96	1.6725E-02	22.58	103.4	72.00	125.6	PASSIVE	0.000	-7.200	31.42	
1.000	1.000	134.8	0.000	0.000	Ug5_2_8_L_0						
38 D	28.96	1.5914E-02	24.25	111.0	74.00	122.2	PASSIVE	0.000	-7.400	33.75	
1.000	1.000	144.8	0.000	0.000	Ug5_2_8_L_0						
39 D	30.95	1.5121E-02	25.93	118.7	76.00	118.7	PASSIVE	0.000	-7.600	36.07	
1.000	1.000	154.8	0.000	0.000	Ug5_2_8_L_0						
40 D	32.95	1.4346E-02	27.60	126.4	78.00	126.4	PASSIVE	0.000	-7.800	38.40	
1.000	1.000	164.8	0.000	0.000	Ug5_2_8_L_0						
41 D	34.95	1.3591E-02	29.27	134.0	80.00	134.0	PASSIVE	0.000	-8.000	40.73	
1.000	1.000	174.7	0.000	0.000	Ug5_2_8_L_0						
42 D	36.94	1.2856E-02	30.95	141.7	82.00	141.7	PASSIVE	0.000	-8.200	43.05	
1.000	1.000	184.7	0.000	0.000	Ug5_2_8_L_0						
43 D	38.94	1.2140E-02	32.62	149.3	84.00	149.3	PASSIVE	0.000	-8.400	45.38	
1.000	1.000	194.7	0.000	0.000	Ug5_2_8_L_0						
44 D	40.94	1.1445E-02	34.29	157.0	86.00	157.0	PASSIVE	0.000	-8.600	47.71	
1.000	1.000	204.7	0.000	0.000	Ug5_2_8_L_0						
45 D	40.27	1.0771E-02	35.96	151.3	88.00	151.3	V-C	9414.	-8.800	50.04	
1.000	1.000	201.4	0.000	0.000	Ug5_2_8_L_0						
46 D	39.54	1.0118E-02	37.64	145.4	90.00	145.4	V-C	9414.	-9.000	52.36	
1.000	1.000	197.7	0.000	0.000	Ug5_2_8_L_0						
47 D	38.86	9.4857E-03	39.31	139.6	92.00	139.6	V-C	9414.	-9.200	54.69	
1.000	1.000	194.3	0.000	0.000	Ug5_2_8_L_0						
48 D	38.23	8.8744E-03	40.98	134.2	94.00	134.2	V-C	9414.	-9.400	57.02	
1.000	1.000	191.2	0.000	0.000	Ug5_2_8_L_0						
49 D	37.65	8.2837E-03	42.65	128.9	96.00	128.9	V-C	9414.	-9.600	59.35	
1.000	1.000	188.3	0.000	0.000	Ug5_2_8_L_0						
50 D	37.12	7.7135E-03	44.33	123.9	98.00	123.9	V-C	9414.	-9.800	61.67	
1.000	1.000	185.6	0.000	0.000	Ug5_2_8_L_0						
51 D	36.63	7.1634E-03	46.00	119.2	100.00	119.2	V-C	9414.	-10.000	64.00	
1.000	1.000	183.2	0.000	0.000	Ug5_2_8_L_0						
52 D	36.19	6.6331E-03	47.67	114.6	102.0	114.6	V-C	9414.	-10.200	66.33	
1.000	1.000	180.9	0.000	0.000	Ug5_2_8_L_0						
53 D	35.79	6.1220E-03	49.35	110.3	104.0	110.3	V-C	9414.	-10.400	68.65	
1.000	1.000	179.0	0.000	0.000	Ug5_2_8_L_0						
54 D	35.43	5.6296E-03	51.02	106.2	106.0	106.2	V-C	9414.	-10.600	70.98	
1.000	1.000	177.2	0.000	0.000	Ug5_2_8_L_0						
55 D	35.12	5.1553E-03	52.69	102.3	108.0	102.3	V-C	9414.	-10.800	73.31	
1.000	1.000	175.6	0.000	0.000	Ug5_2_8_L_0						
56 D	34.84	4.6985E-03	54.36	98.59	110.0	98.59	V-C	9414.	-11.000	75.64	
1.000	1.000	174.2	0.000	0.000	Ug5_2_8_L_0						
57 D	34.61	4.2584E-03	56.04	95.08	112.0	95.08	V-C	9414.	-11.200	77.96	
1.000	1.000	173.0	0.000	0.000	Ug5_2_8_L_0						
58 D	34.41	3.8344E-03	57.71	91.74	114.0	91.74	V-C	9414.	-11.400	80.29	
1.000	1.000	172.0	0.000	0.000	Ug5_2_8_L_0						
59 D	34.24	3.4255E-03	59.38	88.58	116.0	88.58	V-C	9414.	-11.600	82.62	
1.000	1.000	171.2	0.000	0.000	Ug5_2_8_L_0						
60 D	34.10	3.0310E-03	61.05	85.58	118.0	85.58	V-C	9414.	-11.800	84.95	
1.000	1.000	170.5	0.000	0.000	Ug5_2_8_L_0						
61 D	34.00	2.6501E-03	62.73	82.72	120.0	82.72	V-C	9414.	-12.000	87.27	
1.000	1.000	170.0	0.000	0.000	Ug5_2_8_L_0						
62 D	32.59	2.2817E-03	64.20	73.34	121.8	73.34	V-C	6832.	-12.200	89.60	
1.000	1.000	162.9	0.000	0.000	Ug6_741_743_L_0						
63 D	32.71	1.9251E-03	65.67	71.63	123.6	71.63	V-C	6832.	-12.400	91.93	
1.000	1.000	163.6	0.000	0.000	Ug6_741_743_L_0						
64 D	32.81	1.5793E-03	67.15	69.79	125.4	70.11	UL-RL	2.0495E+04	-12.600	94.25	
1.000	1.000	164.0	0.000	0.000	Ug6_741_743_L_0						
65 D	32.83	1.2433E-03	68.62	67.58	127.2	68.90	UL-RL	2.0495E+04	-12.800	96.58	
1.000	1.000	164.2	0.000	0.000	Ug6_741_743_L_0						
66 D	32.87	9.1635E-04	70.09	65.44	129.0	67.75	UL-RL	2.0495E+04	-13.000	98.91	
1.000	1.000	164.3	0.000	0.000	Ug6_741_743_L_0						
67 D	32.92	5.9744E-04	71.56	63.35	130.8	66.67	UL-RL	2.0495E+04	-13.200	101.2	
1.000	1.000	164.6	0.000	0.000	Ug6_741_743_L_0						
68 D	32.50	2.8571E-04	73.04	58.94	132.6	66.84	UL-RL	2.0495E+04	-13.400	103.6	
1.000	1.000	162.5	0.000	0.000	Ug6_741_743_L_0						
69 D	31.83	-1.9684E-05	74.51	53.25	134.4	67.73	UL-RL	2.0495E+04	-13.600	105.9	
1.000	1.000	159.1	0.000	0.000	Ug6_741_743_L_0						
70 D	31.18	-3.1959E-04	75.98	47.68	136.2	68.61	UL-RL	2.0495E+04	-13.800	108.2	
1.000	1.000	155.9	0.000	0.000	Ug6_741_743_L_0						
71 D	30.55	-6.1481E-04	77.45	42.22	138.0	69.50	UL-RL	2.0495E+04	-14.000	110.5	
1.000	1.000	152.8	0.000	0.000	Ug6_741_743_L_0						
72 D	29.95	-9.0610E-04	78.93	36.86	139.8	70.38	UL-RL	2.0495E+04	-14.200	112.9	
1.000	1.000	149.7	0.000	0.000	Ug6_741_743_L_0						
73 D	29.46	-1.1942E-03	80.40	32.08	141.6	71.27	ACTIVE	0.000	-14.400	115.2	
1.000	1.000	147.3	0.000	0.000	Ug6_741_743_L_0						
74 D	30.06	-1.4797E-03	81.87	32.77	143.4	72.16	ACTIVE	0.000	-14.600	117.5	
1.000	1.000	150.3	0.000	0.000	Ug6_741_743_L_0						
75 D	30.66	-1.7632E-03	83.35	33.46	145.2	73.05	ACTIVE	0.000	-14.800	119.9	
1.000	1.000	153.3	0.000	0.000	Ug6_741_743_L_0						
76 D	31.26	-2.0452E-03	84.82	34.14	147.0	73.94	ACTIVE	0.000	-15.000	122.2	
1.000	1.000	156.3	0.000	0.000	Ug6_741_743_L_0						
77 D	31.87	-2.3262E-03	86.29	34.83	148.8	74.82	ACTIVE	0.000	-15.200	124.5	
1.000	1.000	159.3	0.000	0.000	Ug6_741_743_L_0						
78 D	32.47	-2.6066E-03	87.76	35.52	150.6	75.71	ACTIVE	0.000	-15.400	126.8	
1.000	1.000	162.4	0.000	0.000	Ug6_741_743_L_0						

79 D	33.07	-2.8865E-03	89.24	36.21	152.4	76.60	ACTIVE	0.000	-15.60	129.2
1.000	1.000	165.4	0.000	0.000	Ug6_741_743_L_0					
80 D	33.68	-3.1663E-03	90.71	36.89	154.2	77.49	ACTIVE	0.000	-15.80	131.5
1.000	1.000	168.4	0.000	0.000	Ug6_741_743_L_0					
81 D	17.14	-3.4460E-03	92.18	37.58	156.0	78.38	ACTIVE	0.000	-16.00	133.8
1.000	1.000	171.4	0.000	0.000	Ug6_741_743_L_0					





70	-133.85	133.85	-164.41	137.64
71	-124.86	124.86	-137.64	112.67
72	-114.27	114.27	-112.67	89.814
73	-102.21	102.21	-89.814	69.371
74	-89.783	89.783	-69.371	51.415
75	-76.982	76.982	-51.415	36.018
76	-63.814	63.814	-36.018	23.255
77	-50.280	50.280	-23.255	13.199
78	-36.382	36.382	-13.199	5.9229
79	-22.120	22.120	-5.9229	1.4989
80	-7.4944	7.4944	-1.4989	-4.33161E-11

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ITER      0  RNORM = 0.000      RMNORM= 0.000
           RINORM=0.1953E+07  RIMNOR=0.2735E+08
           RENORM= 2.297      REMNOR=0.1154E-16  RATIO =0.1084E-02  TOLER =0.1000E-03  NOT CONVERGED
           RFMAX = 165.3      RMMAX = 736.2
           RTSMAL=0.1000E-02  RMSMAL=0.1000E-02
           RDT   =0.1953E+07  RDR   =0.2735E+08
           RATIO=0.1084E-02  RATIO= 0.000
           MAX UN=0.1204E-08  IEQ=   22 NODE    11 DOF   2   X-ROT. F
           MIN UN=-.2023     IEQ=  125 NODE    63 DOF   1   Y-DISPL.F
           NO. OF CONTACT CONSTRAINT VIOLATIONS      0

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ITER      2  RNORM = 0.000      RMNORM= 0.000
           RINORM=0.1953E+07  RIMNOR=0.2735E+08
           RENORM=0.2353E-14  REMNOR=0.9522E-17  RATIO =0.3471E-10  TOLER =0.1000E-03  CONVERGED !
           RFMAX = 165.3      RMMAX = 736.2
           RTSMAL=0.1000E-02  RMSMAL=0.1000E-02
           RDT   =0.1953E+07  RDR   =0.2735E+08
           RATIO=0.3471E-10  RATIO= 0.000
           MAX UN=0.1556E-07  IEQ=   21 NODE    11 DOF   1   Y-DISPL.F
           MIN UN=-.2084E-07  IEQ=    3 NODE     2 DOF   1   Y-DISPL.F
           NO. OF CONTACT CONSTRAINT VIOLATIONS      0

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
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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   7   ( AT TIME   7.000   )

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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	5.1353870E-02	-5.0023508E-03	
2	5.0353400E-02	-5.0023508E-03	
3	4.9352930E-02	-5.0023431E-03	
4	4.8352465E-02	-5.0023056E-03	
5	4.7352013E-02	-5.0022020E-03	
6	4.6351592E-02	-5.0019823E-03	
7	4.5351232E-02	-5.0015827E-03	
8	4.4350976E-02	-5.0009252E-03	
9	4.3350885E-02	-4.9999182E-03	
10	4.2351039E-02	-4.9984558E-03	
11	4.1351541E-02	-4.9964185E-03	
12	4.0352519E-02	-4.9936726E-03	
13	3.9354129E-02	-4.9900707E-03	
14	3.8356558E-02	-4.9854514E-03	
15	3.7360028E-02	-4.9796394E-03	
16	3.6364795E-02	-4.9724458E-03	
17	3.5371150E-02	-4.9636674E-03	
18	3.4379443E-02	-4.9530874E-03	
19	3.3390051E-02	-4.9404753E-03	
20	3.2403405E-02	-4.9255865E-03	
21	3.1419990E-02	-4.9081628E-03	
22	3.0440332E-02	-4.8879318E-03	
23	2.9465024E-02	-4.8646077E-03	
24	2.8494715E-02	-4.8378907E-03	
25	2.7530113E-02	-4.8074806E-03	
26	2.6571987E-02	-4.7731048E-03	
27	2.5621156E-02	-4.7345343E-03	
28	2.4678470E-02	-4.6915822E-03	
29	2.3744825E-02	-4.6441056E-03	
30	2.2821136E-02	-4.5920042E-03	
31	2.1908335E-02	-4.5352209E-03	
32	2.1007365E-02	-4.4737418E-03	
33	2.0119154E-02	-4.4075954E-03	
34	1.9244633E-02	-4.3368539E-03	
35	1.8384711E-02	-4.2616326E-03	
36	1.7540268E-02	-4.1820896E-03	
37	1.6712154E-02	-4.0984266E-03	
38	1.5901160E-02	-4.0108871E-03	
39	1.5108039E-02	-3.9197588E-03	
40	1.4333474E-02	-3.8253721E-03	
41	1.3578082E-02	-3.7281007E-03	
42	1.2842398E-02	-3.6283610E-03	
43	1.2126872E-02	-3.5266127E-03	
44	1.1431854E-02	-3.4233584E-03	
45	1.0757596E-02	-3.3191443E-03	
46	1.0104227E-02	-3.2145202E-03	
47	9.4717803E-03	-3.1100036E-03	
48	8.8601858E-03	-3.0060780E-03	
49	8.2692796E-03	-2.9031940E-03	
50	7.6988136E-03	-2.8017719E-03	
51	7.1484504E-03	-2.7022005E-03	
52	6.6177729E-03	-2.6048395E-03	
53	6.1063563E-03	-2.5100327E-03	
54	5.6135954E-03	-2.4180769E-03	
55	5.1389163E-03	-2.3292606E-03	
56	4.6816645E-03	-2.2438444E-03	
57	4.2411360E-03	-2.1620663E-03	
58	3.8165810E-03	-2.0841432E-03	
59	3.4072086E-03	-2.0102718E-03	
60	3.0121904E-03	-1.9406295E-03	
61	2.6306642E-03	-1.8753757E-03	
62	2.2617381E-03	-1.8146520E-03	
63	1.9044973E-03	-1.7585208E-03	
64	1.5580246E-03	-1.7069674E-03	
65	1.2214070E-03	-1.6599638E-03	
66	8.9373876E-04	-1.6174646E-03	
67	5.7412520E-04	-1.5794047E-03	
68	2.6168643E-04	-1.5457016E-03	
69	-4.4438737E-05	-1.5162480E-03	
70	-3.4508622E-04	-1.4908963E-03	
71	-6.4105787E-04	-1.4694539E-03	
72	-9.3311271E-04	-1.4516854E-03	
73	-1.2219583E-03	-1.4373109E-03	

74	-1.5082419E-03	-1.4260085E-03
75	-1.7925434E-03	-1.4174313E-03
76	-2.0753723E-03	-1.4112217E-03
77	-2.3571654E-03	-1.4070114E-03
78	-2.6382849E-03	-1.4044217E-03
79	-2.9190161E-03	-1.4030630E-03
80	-3.1995655E-03	-1.4025356E-03
81	-3.4800724E-03	-1.4024291E-03



1.000	1.000	78.07	0.000	0.000	Ug5_2_8_L_0					
34 D	16.10	-1.9245E-02	76.80	25.29	80.39	35.48	UL-RL	4.4259E+04	-6.600	55.20
1.000	1.000	80.49	0.000	0.000	Ug5_2_8_L_0					
35 D	16.58	-1.8385E-02	79.13	26.04	82.76	36.47	UL-RL	4.4259E+04	-6.800	56.87
1.000	1.000	82.91	0.000	0.000	Ug5_2_8_L_0					
36 D	17.07	-1.7540E-02	81.45	26.79	85.12	37.46	UL-RL	4.4259E+04	-7.000	58.55
1.000	1.000	85.33	0.000	0.000	Ug5_2_8_L_0					
37 D	17.55	-1.6712E-02	83.78	27.53	87.43	38.46	UL-RL	4.4259E+04	-7.200	60.22
1.000	1.000	87.75	0.000	0.000	Ug5_2_8_L_0					
38 D	18.03	-1.5901E-02	86.11	28.28	89.80	39.45	UL-RL	4.4259E+04	-7.400	61.89
1.000	1.000	90.17	0.000	0.000	Ug5_2_8_L_0					
39 D	18.52	-1.5108E-02	88.44	29.03	92.16	40.45	UL-RL	4.4259E+04	-7.600	63.56
1.000	1.000	92.59	0.000	0.000	Ug5_2_8_L_0					
40 D	19.00	-1.4333E-02	90.76	29.77	94.47	41.45	UL-RL	4.4259E+04	-7.800	65.24
1.000	1.000	95.01	0.000	0.000	Ug5_2_8_L_0					
41 D	19.49	-1.3578E-02	93.09	30.52	96.83	42.45	UL-RL	4.4259E+04	-8.000	66.91
1.000	1.000	97.43	0.000	0.000	Ug5_2_8_L_0					
42 D	19.97	-1.2842E-02	95.42	31.27	99.19	43.45	UL-RL	4.4259E+04	-8.200	68.58
1.000	1.000	99.85	0.000	0.000	Ug5_2_8_L_0					
43 D	20.45	-1.2127E-02	97.75	32.02	101.5	44.45	UL-RL	4.4259E+04	-8.400	70.25
1.000	1.000	102.3	0.000	0.000	Ug5_2_8_L_0					
44 D	20.94	-1.1432E-02	100.1	32.77	103.9	45.45	UL-RL	4.4259E+04	-8.600	71.93
1.000	1.000	104.7	0.000	0.000	Ug5_2_8_L_0					
45 D	21.42	-1.0758E-02	102.4	33.52	106.2	46.45	UL-RL	4.4259E+04	-8.800	73.60
1.000	1.000	107.1	0.000	0.000	Ug5_2_8_L_0					
46 D	21.91	-1.0104E-02	104.7	34.27	108.6	47.45	UL-RL	4.4259E+04	-9.000	75.27
1.000	1.000	109.5	0.000	0.000	Ug5_2_8_L_0					
47 D	22.39	-9.4718E-03	107.1	35.02	110.9	48.46	UL-RL	4.4259E+04	-9.200	76.95
1.000	1.000	112.0	0.000	0.000	Ug5_2_8_L_0					
48 D	22.88	-8.8602E-03	109.4	35.78	113.2	49.46	UL-RL	4.4259E+04	-9.400	78.62
1.000	1.000	114.4	0.000	0.000	Ug5_2_8_L_0					
49 D	23.36	-8.2693E-03	111.7	36.53	115.6	50.47	UL-RL	4.4259E+04	-9.600	80.29
1.000	1.000	116.8	0.000	0.000	Ug5_2_8_L_0					
50 D	23.85	-7.6988E-03	114.0	37.29	117.9	51.47	UL-RL	4.4259E+04	-9.800	81.96
1.000	1.000	119.2	0.000	0.000	Ug5_2_8_L_0					
51 D	24.34	-7.1485E-03	116.4	38.04	120.2	52.48	UL-RL	4.4259E+04	-10.00	83.64
1.000	1.000	121.7	0.000	0.000	Ug5_2_8_L_0					
52 D	24.82	-6.6178E-03	118.7	38.80	122.6	53.49	UL-RL	4.4259E+04	-10.20	85.31
1.000	1.000	124.1	0.000	0.000	Ug5_2_8_L_0					
53 D	25.31	-6.1064E-03	121.0	39.56	124.9	54.50	UL-RL	4.4259E+04	-10.40	86.98
1.000	1.000	126.5	0.000	0.000	Ug5_2_8_L_0					
54 D	25.79	-5.6136E-03	123.3	40.32	127.3	55.51	UL-RL	4.4259E+04	-10.60	88.65
1.000	1.000	129.0	0.000	0.000	Ug5_2_8_L_0					
55 D	26.28	-5.1389E-03	125.7	41.08	129.6	56.52	UL-RL	4.4259E+04	-10.80	90.33
1.000	1.000	131.4	0.000	0.000	Ug5_2_8_L_0					
56 D	26.77	-4.6817E-03	128.0	41.84	132.0	57.53	UL-RL	4.4259E+04	-11.00	92.00
1.000	1.000	133.8	0.000	0.000	Ug5_2_8_L_0					
57 D	27.26	-4.2411E-03	130.3	42.60	134.3	58.54	UL-RL	4.4259E+04	-11.20	93.67
1.000	1.000	136.3	0.000	0.000	Ug5_2_8_L_0					
58 D	27.74	-3.8166E-03	132.7	43.37	136.6	59.55	UL-RL	4.4259E+04	-11.40	95.35
1.000	1.000	138.7	0.000	0.000	Ug5_2_8_L_0					
59 D	28.23	-3.4072E-03	135.0	44.14	139.0	60.56	UL-RL	4.4259E+04	-11.60	97.02
1.000	1.000	141.2	0.000	0.000	Ug5_2_8_L_0					
60 D	28.72	-3.0122E-03	137.3	44.90	141.3	61.58	UL-RL	4.4259E+04	-11.80	98.69
1.000	1.000	143.6	0.000	0.000	Ug5_2_8_L_0					
61 D	29.21	-2.6307E-03	139.6	45.67	143.6	62.59	UL-RL	4.4259E+04	-12.00	100.4
1.000	1.000	146.0	0.000	0.000	Ug5_2_8_L_0					
62 D	32.81	-2.2617E-03	141.8	62.04	145.8	63.50	UL-RL	2.1956E+04	-12.20	102.0
1.000	1.000	164.1	0.000	0.000	Ug6_741_743_L_0					
63 D	33.35	-1.9045E-03	143.9	63.05	147.9	64.79	UL-RL	2.1956E+04	-12.40	103.7
1.000	1.000	166.8	0.000	0.000	Ug6_741_743_L_0					
64 D	33.96	-1.5580E-03	146.0	64.40	150.0	66.13	UL-RL	2.1956E+04	-12.60	105.4
1.000	1.000	169.8	0.000	0.000	Ug6_741_743_L_0					
65 D	34.70	-1.2214E-03	148.1	66.47	152.1	67.42	UL-RL	2.1956E+04	-12.80	107.1
1.000	1.000	173.5	0.000	0.000	Ug6_741_743_L_0					
66 D	35.38	-8.9374E-04	150.3	68.19	154.2	68.69	UL-RL	2.1956E+04	-13.00	108.7
1.000	1.000	176.9	0.000	0.000	Ug6_741_743_L_0					
67 D	36.00	-5.7413E-04	152.4	69.62	156.3	70.09	UL-RL	2.1956E+04	-13.20	110.4
1.000	1.000	180.0	0.000	0.000	Ug6_741_743_L_0					
68 D	36.77	-2.6169E-04	154.5	71.76	158.4	72.21	UL-RL	2.1956E+04	-13.40	112.1
1.000	1.000	183.8	0.000	0.000	Ug6_741_743_L_0					
69 D	37.73	4.4439E-05	156.7	74.89	160.5	75.31	UL-RL	2.1956E+04	-13.60	113.7
1.000	1.000	188.6	0.000	0.000	Ug6_741_743_L_0					
70 D	38.60	3.4509E-04	158.8	77.58	162.6	77.97	UL-RL	2.1956E+04	-13.80	115.4
1.000	1.000	193.0	0.000	0.000	Ug6_741_743_L_0					
71 D	39.47	6.4106E-04	160.9	80.26	164.7	80.63	UL-RL	2.1956E+04	-14.00	117.1
1.000	1.000	197.4	0.000	0.000	Ug6_741_743_L_0					
72 D	40.46	9.3311E-04	163.0	83.55	166.7	83.89	UL-RL	2.1956E+04	-14.20	118.8
1.000	1.000	202.3	0.000	0.000	Ug6_741_743_L_0					
73 D	41.45	1.2220E-03	165.2	86.81	168.8	87.13	UL-RL	2.1956E+04	-14.40	120.4
1.000	1.000	207.3	0.000	0.000	Ug6_741_743_L_0					
74 D	42.43	1.5082E-03	167.3	90.05	170.9	90.34	UL-RL	2.1956E+04	-14.60	122.1
1.000	1.000	212.2	0.000	0.000	Ug6_741_743_L_0					
75 D	43.41	1.7925E-03	169.4	93.27	173.0	93.53	UL-RL	2.1956E+04	-14.80	123.8
1.000	1.000	217.1	0.000	0.000	Ug6_741_743_L_0					
76 D	44.39	2.0754E-03	171.5	96.48	175.1	96.71	UL-RL	2.1956E+04	-15.00	125.5
1.000	1.000	221.9	0.000	0.000	Ug6_741_743_L_0					
77 D	45.36	2.3572E-03	173.7	99.67	177.2	99.88	UL-RL	2.1956E+04	-15.20	127.1
1.000	1.000	226.8	0.000	0.000	Ug6_741_743_L_0					
78 D	46.33	2.6383E-03	175.8	102.9	179.3	103.0	UL-RL	2.1956E+04	-15.40	128.8
1.000	1.000	231.7	0.000	0.000	Ug6_741_743_L_0					

79 D	47.30	2.9190E-03	177.9	106.0	181.4	106.2	UL-RL	2.1956E+04	-15.60	130.5
1.000	1.000	236.5	0.000	0.000	Ug6_741_743_L_0					
80 D	48.28	3.1996E-03	180.1	109.2	183.5	109.4	UL-RL	2.1956E+04	-15.80	132.1
1.000	1.000	241.4	0.000	0.000	Ug6_741_743_L_0					
81 D	24.62	3.4801E-03	182.2	112.4	185.6	112.5	UL-RL	2.1956E+04	-16.00	133.8
1.000	1.000	246.2	0.000	0.000	Ug6_741_743_L_0					

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION *Build date:Jul 11, 2017*          |
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New Project

STRESS RESULTS FOR GROUP NO. 2

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ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 81
CURRENT TIME IS 7.0000

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HARDENING 2D SOIL ELEMENT

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

EL * FACTOR	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
1	0.000	--	--	--	--	--	REMOVED	--	0.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
2	0.000	--	--	--	--	--	REMOVED	--	-0.2000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
3	0.000	--	--	--	--	--	REMOVED	--	-0.4000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
4	0.000	--	--	--	--	--	REMOVED	--	-0.6000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
5	0.000	--	--	--	--	--	REMOVED	--	-0.8000	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	--	-1.200	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
8	0.000	--	--	--	--	--	REMOVED	--	-1.400	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
9	0.000	--	--	--	--	--	REMOVED	--	-1.600	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
10	0.000	--	--	--	--	--	REMOVED	--	-1.800	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
11	0.000	--	--	--	--	--	REMOVED	--	-2.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
12	0.000	--	--	--	--	--	REMOVED	--	-2.200	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
13	0.000	--	--	--	--	--	REMOVED	--	-2.400	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
14	0.000	--	--	--	--	--	REMOVED	--	-2.600	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
15	0.000	--	--	--	--	--	REMOVED	--	-2.800	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
16	0.000	--	--	--	--	--	REMOVED	--	-3.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
17	0.000	--	--	--	--	--	REMOVED	--	-3.200	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
18	0.000	--	--	--	--	--	REMOVED	--	-3.400	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
19	0.000	--	--	--	--	--	REMOVED	--	-3.600	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
20	0.000	--	--	--	--	--	REMOVED	--	-3.800	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
21	0.000	--	--	--	--	--	REMOVED	--	-4.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
22	0.000	--	--	--	--	--	REMOVED	--	-4.200	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
23	0.000	--	--	--	--	--	REMOVED	--	-4.400	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
24 D	0.9317	2.8495E-02	0.8364	3.495	46.00	65.67	UL-RL	2.8243E+04	-4.600	1.164	
1.000	1.000	4.659	0.000	0.000	Ug5_2_8_L_0						
25 D	2.928	2.7530E-02	2.509	11.15	48.00	73.88	UL-RL	2.8243E+04	-4.800	3.491	
1.000	1.000	14.64	0.000	0.000	Ug5_2_8_L_0						
26 D	4.925	2.6572E-02	4.182	18.81	50.00	82.09	UL-RL	2.8243E+04	-5.000	5.818	
1.000	1.000	24.62	0.000	0.000	Ug5_2_8_L_0						
27 D	6.921	2.5621E-02	5.855	26.46	52.00	80.20	UL-RL	2.8243E+04	-5.200	8.145	
1.000	1.000	34.61	0.000	0.000	Ug5_2_8_L_0						
28 D	8.918	2.4678E-02	7.527	34.12	54.00	77.91	UL-RL	2.8243E+04	-5.400	10.47	
1.000	1.000	44.59	0.000	0.000	Ug5_2_8_L_0						
29 D	10.91	2.3745E-02	9.200	41.77	56.00	75.71	UL-RL	2.8243E+04	-5.600	12.80	
1.000	1.000	54.57	0.000	0.000	Ug5_2_8_L_0						
30 D	12.91	2.2821E-02	10.87	49.43	58.00	73.63	UL-RL	2.8243E+04	-5.800	15.13	
1.000	1.000	64.56	0.000	0.000	Ug5_2_8_L_0						
31 D	14.91	2.1908E-02	12.55	57.08	60.00	78.48	UL-RL	2.8243E+04	-6.000	17.45	
1.000	1.000	74.54	0.000	0.000	Ug5_2_8_L_0						
32 D	16.90	2.1007E-02	14.22	64.74	62.00	86.33	UL-RL	2.8243E+04	-6.200	19.78	
1.000	1.000	84.52	0.000	0.000	Ug5_2_8_L_0						
33 D	18.90	2.0119E-02	15.89	72.40	64.00	94.18	UL-RL	2.8243E+04	-6.400	22.11	



1.000	1.000	94.51	0.000	0.000	Ug5_2_8_L_0					
34 D	20.90	1.9245E-02	17.56	80.05	66.00	102.0	UL-RL	2.8243E+04	-6.600	24.44
1.000	1.000	104.5	0.000	0.000	Ug5_2_8_L_0					
35 D	22.89	1.8385E-02	19.24	87.71	68.00	109.9	UL-RL	2.8243E+04	-6.800	26.76
1.000	1.000	114.5	0.000	0.000	Ug5_2_8_L_0					
36 D	24.89	1.7540E-02	20.91	95.37	70.00	117.7	UL-RL	2.8243E+04	-7.000	29.09
1.000	1.000	124.5	0.000	0.000	Ug5_2_8_L_0					
37 D	26.89	1.6712E-02	22.58	103.0	72.00	125.6	UL-RL	2.8243E+04	-7.200	31.42
1.000	1.000	134.4	0.000	0.000	Ug5_2_8_L_0					
38 D	28.88	1.5901E-02	24.25	110.7	74.00	122.2	UL-RL	2.8243E+04	-7.400	33.75
1.000	1.000	144.4	0.000	0.000	Ug5_2_8_L_0					
39 D	30.88	1.5108E-02	25.93	118.3	76.00	118.7	UL-RL	2.8243E+04	-7.600	36.07
1.000	1.000	154.4	0.000	0.000	Ug5_2_8_L_0					
40 D	32.88	1.4333E-02	27.60	126.0	78.00	126.4	UL-RL	2.8243E+04	-7.800	38.40
1.000	1.000	164.4	0.000	0.000	Ug5_2_8_L_0					
41 D	34.87	1.3578E-02	29.27	133.6	80.00	134.0	UL-RL	2.8243E+04	-8.000	40.73
1.000	1.000	174.4	0.000	0.000	Ug5_2_8_L_0					
42 D	36.87	1.2842E-02	30.95	141.3	82.00	141.7	UL-RL	2.8243E+04	-8.200	43.05
1.000	1.000	184.4	0.000	0.000	Ug5_2_8_L_0					
43 D	38.87	1.2127E-02	32.62	149.0	84.00	149.3	UL-RL	2.8243E+04	-8.400	45.38
1.000	1.000	194.3	0.000	0.000	Ug5_2_8_L_0					
44 D	40.86	1.1432E-02	34.29	156.6	86.00	157.0	UL-RL	2.8243E+04	-8.600	47.71
1.000	1.000	204.3	0.000	0.000	Ug5_2_8_L_0					
45 D	40.20	1.0758E-02	35.96	150.9	88.00	151.3	UL-RL	2.8243E+04	-8.800	50.04
1.000	1.000	201.0	0.000	0.000	Ug5_2_8_L_0					
46 D	39.47	1.0104E-02	37.64	145.0	90.00	145.4	UL-RL	2.8243E+04	-9.000	52.36
1.000	1.000	197.3	0.000	0.000	Ug5_2_8_L_0					
47 D	38.79	9.4718E-03	39.31	139.2	92.00	139.6	UL-RL	2.8243E+04	-9.200	54.69
1.000	1.000	193.9	0.000	0.000	Ug5_2_8_L_0					
48 D	38.15	8.8602E-03	40.98	133.8	94.00	134.2	UL-RL	2.8243E+04	-9.400	57.02
1.000	1.000	190.8	0.000	0.000	Ug5_2_8_L_0					
49 D	37.57	8.2693E-03	42.65	128.5	96.00	128.9	UL-RL	2.8243E+04	-9.600	59.35
1.000	1.000	187.9	0.000	0.000	Ug5_2_8_L_0					
50 D	37.04	7.6988E-03	44.33	123.5	98.00	123.9	UL-RL	2.8243E+04	-9.800	61.67
1.000	1.000	185.2	0.000	0.000	Ug5_2_8_L_0					
51 D	36.55	7.1485E-03	46.00	118.7	100.00	119.2	UL-RL	2.8243E+04	-10.000	64.00
1.000	1.000	182.7	0.000	0.000	Ug5_2_8_L_0					
52 D	36.10	6.6178E-03	47.67	114.2	102.0	114.6	UL-RL	2.8243E+04	-10.200	66.33
1.000	1.000	180.5	0.000	0.000	Ug5_2_8_L_0					
53 D	35.70	6.1064E-03	49.35	109.9	104.0	110.3	UL-RL	2.8243E+04	-10.400	68.65
1.000	1.000	178.5	0.000	0.000	Ug5_2_8_L_0					
54 D	35.34	5.6136E-03	51.02	105.7	106.0	106.2	UL-RL	2.8243E+04	-10.600	70.98
1.000	1.000	176.7	0.000	0.000	Ug5_2_8_L_0					
55 D	35.03	5.1389E-03	52.69	101.8	108.0	102.3	UL-RL	2.8243E+04	-10.800	73.31
1.000	1.000	175.1	0.000	0.000	Ug5_2_8_L_0					
56 D	34.75	4.6817E-03	54.36	98.11	110.0	98.59	UL-RL	2.8243E+04	-11.000	75.64
1.000	1.000	173.7	0.000	0.000	Ug5_2_8_L_0					
57 D	34.51	4.2411E-03	56.04	94.59	112.0	95.08	UL-RL	2.8243E+04	-11.200	77.96
1.000	1.000	172.6	0.000	0.000	Ug5_2_8_L_0					
58 D	34.31	3.8166E-03	57.71	91.24	114.0	91.74	UL-RL	2.8243E+04	-11.400	80.29
1.000	1.000	171.5	0.000	0.000	Ug5_2_8_L_0					
59 D	34.14	3.4072E-03	59.38	88.06	116.0	88.58	UL-RL	2.8243E+04	-11.600	82.62
1.000	1.000	170.7	0.000	0.000	Ug5_2_8_L_0					
60 D	34.00	3.0122E-03	61.05	85.04	118.0	85.58	UL-RL	2.8243E+04	-11.800	84.95
1.000	1.000	170.0	0.000	0.000	Ug5_2_8_L_0					
61 D	33.89	2.6307E-03	62.73	82.18	120.0	82.72	UL-RL	2.8243E+04	-12.000	87.27
1.000	1.000	169.4	0.000	0.000	Ug5_2_8_L_0					
62 D	32.51	2.2617E-03	64.20	72.93	121.8	73.34	UL-RL	2.0495E+04	-12.200	89.60
1.000	1.000	162.5	0.000	0.000	Ug6_741_743_L_0					
63 D	32.63	1.9045E-03	65.67	71.21	123.6	71.63	UL-RL	2.0495E+04	-12.400	91.93
1.000	1.000	163.1	0.000	0.000	Ug6_741_743_L_0					
64 D	32.72	1.5580E-03	67.15	69.35	125.4	70.11	UL-RL	2.0495E+04	-12.600	94.25
1.000	1.000	163.6	0.000	0.000	Ug6_741_743_L_0					
65 D	32.74	1.2214E-03	68.62	67.13	127.2	68.90	UL-RL	2.0495E+04	-12.800	96.58
1.000	1.000	163.7	0.000	0.000	Ug6_741_743_L_0					
66 D	32.78	8.9374E-04	70.09	64.98	129.0	67.75	UL-RL	2.0495E+04	-13.000	98.91
1.000	1.000	163.9	0.000	0.000	Ug6_741_743_L_0					
67 D	32.82	5.7413E-04	71.56	62.87	130.8	66.67	UL-RL	2.0495E+04	-13.200	101.2
1.000	1.000	164.1	0.000	0.000	Ug6_741_743_L_0					
68 D	32.40	2.6169E-04	73.04	58.45	132.6	66.84	UL-RL	2.0495E+04	-13.400	103.6
1.000	1.000	162.0	0.000	0.000	Ug6_741_743_L_0					
69 D	31.73	-4.4439E-05	74.51	52.74	134.4	67.73	UL-RL	2.0495E+04	-13.600	105.9
1.000	1.000	158.6	0.000	0.000	Ug6_741_743_L_0					
70 D	31.08	-3.4509E-04	75.98	47.16	136.2	68.61	UL-RL	2.0495E+04	-13.800	108.2
1.000	1.000	155.4	0.000	0.000	Ug6_741_743_L_0					
71 D	30.45	-6.4106E-04	77.45	41.69	138.0	69.50	UL-RL	2.0495E+04	-14.000	110.5
1.000	1.000	152.2	0.000	0.000	Ug6_741_743_L_0					
72 D	29.84	-9.3311E-04	78.93	36.30	139.8	70.38	UL-RL	2.0495E+04	-14.200	112.9
1.000	1.000	149.2	0.000	0.000	Ug6_741_743_L_0					
73 D	29.46	-1.2220E-03	80.40	32.08	141.6	71.27	ACTIVE	0.000	-14.400	115.2
1.000	1.000	147.3	0.000	0.000	Ug6_741_743_L_0					
74 D	30.06	-1.5082E-03	81.87	32.77	143.4	72.16	ACTIVE	0.000	-14.600	117.5
1.000	1.000	150.3	0.000	0.000	Ug6_741_743_L_0					
75 D	30.66	-1.7925E-03	83.35	33.46	145.2	73.05	ACTIVE	0.000	-14.800	119.9
1.000	1.000	153.3	0.000	0.000	Ug6_741_743_L_0					
76 D	31.26	-2.0754E-03	84.82	34.14	147.0	73.94	ACTIVE	0.000	-15.000	122.2
1.000	1.000	156.3	0.000	0.000	Ug6_741_743_L_0					
77 D	31.87	-2.3572E-03	86.29	34.83	148.8	74.82	ACTIVE	0.000	-15.200	124.5
1.000	1.000	159.3	0.000	0.000	Ug6_741_743_L_0					
78 D	32.47	-2.6383E-03	87.76	35.52	150.6	75.71	ACTIVE	0.000	-15.400	126.8
1.000	1.000	162.4	0.000	0.000	Ug6_741_743_L_0					

79 D	33.07	-2.9190E-03	89.24	36.21	152.4	76.60	ACTIVE	0.000	-15.60	129.2
1.000	1.000	165.4	0.000	0.000	Ug6_741_743_L_0					
80 D	33.68	-3.1996E-03	90.71	36.89	154.2	77.49	ACTIVE	0.000	-15.80	131.5
1.000	1.000	168.4	0.000	0.000	Ug6_741_743_L_0					
81 D	17.14	-3.4801E-03	92.18	37.58	156.0	78.38	ACTIVE	0.000	-16.00	133.8
1.000	1.000	171.4	0.000	0.000	Ug6_741_743_L_0					

```

+-----+
|                PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                |
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|                |
+-----+

```

New Project

STRESS RESULTS FOR GROUP NO. 3

WallElement\_33 :  
ELEMENT TYPE 2 NO.OF ELEMENTS. IN THIS GROUP 80  
CURRENT TIME IS 7.0000

WALL2D ELEMENT

EL	TA	TB	MA	MB
1	-1.27899E-08	1.27899E-08	-1.27587E-09	-2.48004E-09
2	0.53809	-0.53809	2.00286E-09	0.10762
3	1.5631	-1.5631	-0.10762	0.42023
4	3.0758	-3.0758	-0.42023	1.0354
5	5.0770	-5.0770	-1.0354	2.0508
6	7.5668	-7.5668	-2.0508	3.5641
7	10.545	-10.545	-3.5641	5.6732
8	14.014	-14.014	-5.6732	8.4759
9	17.973	-17.973	-8.4759	12.071
10	22.420	-22.420	-12.071	16.555
11	27.356	-27.356	-16.555	22.026
12	32.781	-32.781	-22.026	28.582
13	38.692	-38.692	-28.582	36.320
14	45.091	-45.091	-36.320	45.338
15	51.977	-51.977	-45.338	55.734
16	59.350	-59.350	-55.734	67.604
17	67.209	-67.209	-67.604	81.046
18	75.554	-75.554	-81.046	96.157
19	84.386	-84.386	-96.157	113.03
20	93.702	-93.702	-113.03	131.77
21	103.50	-103.50	-131.77	152.47
22	113.79	-113.79	-152.47	175.23
23	124.56	-124.56	-175.23	200.15
24	134.89	-134.89	-200.15	227.12
25	143.70	-143.70	-227.12	255.86
26	151.00	-151.00	-255.86	286.06
27	156.79	-156.79	-286.06	317.42
28	161.07	-161.07	-317.42	349.63
29	163.83	-163.83	-349.63	382.40
30	165.08	-165.08	-382.40	415.42
31	164.82	-164.82	-415.42	448.38
32	163.05	-163.05	-448.38	480.99
33	159.76	-159.76	-480.99	512.94
34	154.96	-154.96	-512.94	543.93
35	148.65	-148.65	-543.93	573.66
36	140.82	-140.82	-573.66	601.83
37	131.48	-131.48	-601.83	628.12
38	120.63	-120.63	-628.12	652.25
39	108.27	-108.27	-652.25	673.90
40	94.392	-94.392	-673.90	692.78
41	79.005	-79.005	-692.78	708.58
42	62.105	-62.105	-708.58	721.00
43	43.693	-43.693	-721.00	729.74
44	23.769	-23.769	-729.74	734.49
45	4.9984	-4.9984	-734.49	735.49
46	-12.559	12.559	-735.49	732.98
47	-28.951	28.951	-732.98	727.19
48	-44.226	44.226	-727.19	718.35
49	-58.434	58.434	-718.35	706.66
50	-71.620	71.620	-706.66	692.34
51	-83.830	83.830	-692.34	675.57
52	-95.110	95.110	-675.57	656.55
53	-105.50	105.50	-656.55	635.45
54	-115.05	115.05	-635.45	612.44
55	-123.80	123.80	-612.44	587.68
56	-131.78	131.78	-587.68	561.32
57	-139.04	139.04	-561.32	533.51
58	-145.60	145.60	-533.51	504.39
59	-151.50	151.50	-504.39	474.09
60	-156.78	156.78	-474.09	442.74
61	-161.47	161.47	-442.74	410.44
62	-161.16	161.16	-410.44	378.21
63	-160.43	160.43	-378.21	346.12
64	-159.20	159.20	-346.12	314.28
65	-157.24	157.24	-314.28	282.84
66	-154.63	154.63	-282.84	251.91
67	-151.45	151.45	-251.91	221.62
68	-147.08	147.08	-221.62	192.21
69	-141.08	141.08	-192.21	163.99

70	-133.56	133.56	-163.99	137.28
71	-124.53	124.53	-137.28	112.37
72	-113.90	113.90	-112.37	89.591
73	-101.91	101.91	-89.591	69.209
74	-89.537	89.537	-69.209	51.302
75	-76.788	76.788	-51.302	35.944
76	-63.667	63.667	-35.944	23.211
77	-50.175	50.175	-23.211	13.176
78	-36.313	36.313	-13.176	5.9133
79	-22.083	22.083	-5.9133	1.4968
80	-7.4837	7.4837	-1.4968	3.82542E-11

```
+-----+
|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|                               NewProject.BaseDesignSection_28.A2M2R1_1787                       |
|                               Exe Time :24 May 2018      18:25:48                             |
+-----+
```

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

S U M M A R Y

STEP		NO. OF ITERATIONS
1	CONVERGENCE :YES	2
2	CONVERGENCE :YES	5
3	CONVERGENCE :YES	6
4	CONVERGENCE :YES	5
5	CONVERGENCE :YES	6
6	CONVERGENCE :YES	6
7	CONVERGENCE :YES	2

END OF PROCESS FOR PROBLEM

New Project

NONLINEAR SOLUTION CPU TIME .... 0.08 [sec]

DATABASE CREATION CPU TIME..... 0.28 [sec]

# Design Assumption : SISMICA STR - File di Paratie - File di output (.out)

```
+-----+
|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|                               NewProject.BaseDesignSection_28.SISMICASTR_1817                    |
|                               Exe Time :24 May 2018      18:25:49                               |
+-----+
```

```
*****
*
*  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  2017.1      *Build date:Jul 11, 2017*
*
*
*  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_28.SISMICASTR_1817
STARTING
ACCEPTED <FILE,GENW >
ACCEPTED <FILE,PLOTTER,BINARY >
ACCEPTED <SOLVE TOTAL_STRESS >
ACCEPTED <PARAM ITEMAX 40 >
ACCEPTED <CONTROL HINGES 0 0.0001 0.001 >
```

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

```
PRELIMINARY OPERATIONS CPU TIME 0.02 [sec]
```

```

+-----+
|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*          |
|                                                                                                                                           |
|                                                                                                                                           |
|                                                                                                                                           |
|                                                                                                                                           |
|                                                                                                                                           |
|                                                                                                                                           |
|                                                                                                                                           |
+-----+

```

INPUT FILE HAS BEEN GENERATED BY WALGEN PROGRAM

New Project

```

NO. OF NODAL POINTS (NUMNP) ..... 81
NO. OF COORDINATES (NCOORD)..... 2
NO. OF NODE DOFS (NDOF)..... 2
NO. OF EQUATIONS (NEQ)..... 162
NO. OF CONSTRAINTS CARDS (NVINC)..... 0
NO. OF ELEMENT GROUPS (NEG)..... 3
NO. OF SOLUTION STEPS (NSTE)..... 7
NO. OF ELEMENT SETS ATTACHED TO SLAVE NODES ... 0
NO. OF RECORD FROM WALGEN ..... 102
NO. OF LONG NAMES (LASTNAME) ..... 22
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.

```

```

+-----+
|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|                                                                                               |
|          NewProject.BaseDesignSection_28.SISMICASTR_1817  |
|          Exe Time :24 May 2018  18:25:49  |
+-----+

```

P R E P R O C E S S O R    D A T A

N O .   O F   C O M M A N D S    102

```

1 : UNIT m kN
2 : TITLE New Project
3 : DELTA 0.2
4 : option param itemax 40
5 : option control hinges 0 0.0001 0.001
6 : WALL LeftWall_32 0 -16 0 1
7 : SOIL 0_L LeftWall_32 -16 0 1 0
8 : SOIL 0_R LeftWall_32 -16 0 2 180
9 : LDATA Ug5_2_8_L_0 0 LeftWall_32
10 : ATREST 0.5 0.5 1
11 : WEIGHT 19 10 10
12 : PERMEABILITY 0.0001
13 : RESISTANCE 0 37
14 : YOUNG 5E+04 1.5E+05
15 : ENDL
16 : LDATA Ug6_741_743_L_0 -12 LeftWall_32
17 : ATREST 0.5 0.5 1
18 : WEIGHT 18.5 9 10
19 : PERMEABILITY 0.0001
20 : RESISTANCE 5 26
21 : YOUNG 3E+04 9E+04
22 : ENDL
23 : MATERIAL S355_114 2.1E+08
24 : MATERIAL C2530_104 3.148E+07
25 : BEAM WallElement_33 LeftWall_32 -16 0 C2530_104 0.8121 00 00 0
26 : STRIP LeftWall_32 1 6 1 11.75 0 5 45
27 : STEP Stage1_31
28 : CHANGE Ug5_2_8_L_0 U-FRICT=37 LeftWall_32
29 : CHANGE Ug5_2_8_L_0 D-FRICT=37 LeftWall_32
30 : CHANGE Ug5_2_8_L_0 U-KA=0.249 LeftWall_32
31 : CHANGE Ug5_2_8_L_0 U-KP=6.738 LeftWall_32
32 : CHANGE Ug5_2_8_L_0 D-KA=0.249 LeftWall_32
33 : CHANGE Ug5_2_8_L_0 D-KP=6.738 LeftWall_32
34 : CHANGE Ug6_741_743_L_0 U-FRICT=26 LeftWall_32
35 : CHANGE Ug6_741_743_L_0 D-FRICT=26 LeftWall_32
36 : CHANGE Ug6_741_743_L_0 U-KA=0.39 LeftWall_32
37 : CHANGE Ug6_741_743_L_0 U-KP=3.404 LeftWall_32
38 : CHANGE Ug6_741_743_L_0 D-KA=0.39 LeftWall_32
39 : CHANGE Ug6_741_743_L_0 D-KP=3.404 LeftWall_32
40 : CHANGE Ug5_2_8_L_0 U-COHE=0 LeftWall_32
41 : CHANGE Ug5_2_8_L_0 D-COHE=0 LeftWall_32
42 : CHANGE Ug6_741_743_L_0 U-COHE=5 LeftWall_32
43 : CHANGE Ug6_741_743_L_0 D-COHE=5 LeftWall_32
44 : SETWALL LeftWall_32
45 : GEOM 0 0
46 : WATER 0 0 -16 0 0
47 : ADD WallElement_33
48 : ENDSTEP
49 : STEP Stage2_158
50 : CHANGE Ug5_2_8_L_0 D-FRICT=37 LeftWall_32
51 : CHANGE Ug6_741_743_L_0 D-FRICT=26 LeftWall_32
52 : CHANGE Ug5_2_8_L_0 D-COHE=0 LeftWall_32
53 : CHANGE Ug6_741_743_L_0 D-COHE=5 LeftWall_32
54 : SETWALL LeftWall_32
55 : GEOM 0 -1
56 : WATER 0 1 -16 0 0
57 : ENDSTEP
58 : STEP Stage3_255
59 : CHANGE Ug5_2_8_L_0 D-FRICT=37 LeftWall_32
60 : CHANGE Ug6_741_743_L_0 D-FRICT=26 LeftWall_32
61 : CHANGE Ug5_2_8_L_0 D-COHE=0 LeftWall_32
62 : CHANGE Ug6_741_743_L_0 D-COHE=5 LeftWall_32
63 : SETWALL LeftWall_32
64 : GEOM 0 -2
65 : WATER 0 2 -16 0 0
66 : ENDSTEP
67 : STEP Stage4_352
68 : CHANGE Ug5_2_8_L_0 D-FRICT=37 LeftWall_32
69 : CHANGE Ug6_741_743_L_0 D-FRICT=26 LeftWall_32
70 : CHANGE Ug5_2_8_L_0 D-COHE=0 LeftWall_32
71 : CHANGE Ug6_741_743_L_0 D-COHE=5 LeftWall_32
72 : SETWALL LeftWall_32
73 : GEOM 0 -3
74 : WATER 0 3 -16 0 0
75 : ENDSTEP
76 : STEP Stage5_449
77 : CHANGE Ug5_2_8_L_0 D-FRICT=37 LeftWall_32
78 : CHANGE Ug6_741_743_L_0 D-FRICT=26 LeftWall_32

```



```
79 : CHANGE Ug5_2_8_L_0 D-COHE=0 LeftWall_32
80 : CHANGE Ug6_741_743_L_0 D-COHE=5 LeftWall_32
81 : SETWALL LeftWall_32
82 : GEOM 0 -4
83 : WATER 0 4 -16 0 0
84 : ENDSTEP
85 : STEP Stage6_546
86 : CHANGE Ug5_2_8_L_0 D-FRICT=37 LeftWall_32
87 : CHANGE Ug6_741_743_L_0 D-FRICT=26 LeftWall_32
88 : CHANGE Ug5_2_8_L_0 D-COHE=0 LeftWall_32
89 : CHANGE Ug6_741_743_L_0 D-COHE=5 LeftWall_32
90 : SETWALL LeftWall_32
91 : GEOM 0 -4.5
92 : WATER 0 4.5 -16 0 0
93 : ENDSTEP
94 : STEP Stage7_643
95 : CHANGE Ug5_2_8_L_0 D-FRICT=37 LeftWall_32
96 : CHANGE Ug6_741_743_L_0 D-FRICT=26 LeftWall_32
97 : CHANGE Ug5_2_8_L_0 D-COHE=0 LeftWall_32
98 : CHANGE Ug6_741_743_L_0 D-COHE=5 LeftWall_32
99 : SETWALL LeftWall_32
100 : GEOM 0 -4.5
101 : WATER 0 4.5 -16 0 0
102 : ENDSTEP
```



```

+-----+
|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|                                                                                               |
|          NewProject.BaseDesignSection_28.SISMICASTR_1817  |
|          Exe Time :24 May 2018          18:25:49  |
+-----+

```

ELEMENT GROUP NO. 1

```

0_L
  5 81 0 1 0 0 0 0 0 0 0 0 0 0 2 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
7 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

```

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	1	0.2000	0.000	0.000	0.000	1.000
22	22	1	0.2000	0.000	0.000	0.000	1.000
23	23	1	0.2000	0.000	0.000	0.000	1.000
24	24	1	0.2000	0.000	0.000	0.000	1.000
25	25	1	0.2000	0.000	0.000	0.000	1.000
26	26	1	0.2000	0.000	0.000	0.000	1.000
27	27	1	0.2000	0.000	0.000	0.000	1.000
28	28	1	0.2000	0.000	0.000	0.000	1.000
29	29	1	0.2000	0.000	0.000	0.000	1.000
30	30	1	0.2000	0.000	0.000	0.000	1.000
31	31	1	0.2000	0.000	0.000	0.000	1.000
32	32	1	0.2000	0.000	0.000	0.000	1.000
33	33	1	0.2000	0.000	0.000	0.000	1.000
34	34	1	0.2000	0.000	0.000	0.000	1.000
35	35	1	0.2000	0.000	0.000	0.000	1.000
36	36	1	0.2000	0.000	0.000	0.000	1.000
37	37	1	0.2000	0.000	0.000	0.000	1.000
38	38	1	0.2000	0.000	0.000	0.000	1.000
39	39	1	0.2000	0.000	0.000	0.000	1.000
40	40	1	0.2000	0.000	0.000	0.000	1.000
41	41	1	0.2000	0.000	0.000	0.000	1.000
42	42	1	0.2000	0.000	0.000	0.000	1.000
43	43	1	0.2000	0.000	0.000	0.000	1.000
44	44	1	0.2000	0.000	0.000	0.000	1.000
45	45	1	0.2000	0.000	0.000	0.000	1.000

46	46	1	0.2000	0.000	0.000	0.000	0.000	1.000
47	47	1	0.2000	0.000	0.000	0.000	0.000	1.000
48	48	1	0.2000	0.000	0.000	0.000	0.000	1.000
49	49	1	0.2000	0.000	0.000	0.000	0.000	1.000
50	50	1	0.2000	0.000	0.000	0.000	0.000	1.000
51	51	1	0.2000	0.000	0.000	0.000	0.000	1.000
52	52	1	0.2000	0.000	0.000	0.000	0.000	1.000
53	53	1	0.2000	0.000	0.000	0.000	0.000	1.000
54	54	1	0.2000	0.000	0.000	0.000	0.000	1.000
55	55	1	0.2000	0.000	0.000	0.000	0.000	1.000
56	56	1	0.2000	0.000	0.000	0.000	0.000	1.000
57	57	1	0.2000	0.000	0.000	0.000	0.000	1.000
58	58	1	0.2000	0.000	0.000	0.000	0.000	1.000
59	59	1	0.2000	0.000	0.000	0.000	0.000	1.000
60	60	1	0.2000	0.000	0.000	0.000	0.000	1.000
61	61	1	0.2000	0.000	0.000	0.000	0.000	1.000
62	62	2	0.2000	0.000	0.000	0.000	0.000	1.000
63	63	2	0.2000	0.000	0.000	0.000	0.000	1.000
64	64	2	0.2000	0.000	0.000	0.000	0.000	1.000
65	65	2	0.2000	0.000	0.000	0.000	0.000	1.000
66	66	2	0.2000	0.000	0.000	0.000	0.000	1.000
67	67	2	0.2000	0.000	0.000	0.000	0.000	1.000
68	68	2	0.2000	0.000	0.000	0.000	0.000	1.000
69	69	2	0.2000	0.000	0.000	0.000	0.000	1.000
70	70	2	0.2000	0.000	0.000	0.000	0.000	1.000
71	71	2	0.2000	0.000	0.000	0.000	0.000	1.000
72	72	2	0.2000	0.000	0.000	0.000	0.000	1.000
73	73	2	0.2000	0.000	0.000	0.000	0.000	1.000
74	74	2	0.2000	0.000	0.000	0.000	0.000	1.000
75	75	2	0.2000	0.000	0.000	0.000	0.000	1.000
76	76	2	0.2000	0.000	0.000	0.000	0.000	1.000
77	77	2	0.2000	0.000	0.000	0.000	0.000	1.000
78	78	2	0.2000	0.000	0.000	0.000	0.000	1.000
79	79	2	0.2000	0.000	0.000	0.000	0.000	1.000
80	80	2	0.2000	0.000	0.000	0.000	0.000	1.000
81	81	2	0.1000	0.000	0.000	0.000	0.000	1.000

```

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|                                                                                               |
|          NewProject.BaseDesignSection_28.SISMICASTR_1817  |
|          Exe Time :24 May 2018          18:25:49  |
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```

ELEMENT GROUP NO. 2

```

0_R
  5 81 0 1 0 0 0 0 0 0 0 0 0 0 2 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
7 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

```

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	1	0.2000	0.000	0.000	0.000	2.000
22	22	1	0.2000	0.000	0.000	0.000	2.000
23	23	1	0.2000	0.000	0.000	0.000	2.000
24	24	1	0.2000	0.000	0.000	0.000	2.000
25	25	1	0.2000	0.000	0.000	0.000	2.000
26	26	1	0.2000	0.000	0.000	0.000	2.000
27	27	1	0.2000	0.000	0.000	0.000	2.000
28	28	1	0.2000	0.000	0.000	0.000	2.000
29	29	1	0.2000	0.000	0.000	0.000	2.000
30	30	1	0.2000	0.000	0.000	0.000	2.000
31	31	1	0.2000	0.000	0.000	0.000	2.000
32	32	1	0.2000	0.000	0.000	0.000	2.000
33	33	1	0.2000	0.000	0.000	0.000	2.000
34	34	1	0.2000	0.000	0.000	0.000	2.000
35	35	1	0.2000	0.000	0.000	0.000	2.000
36	36	1	0.2000	0.000	0.000	0.000	2.000
37	37	1	0.2000	0.000	0.000	0.000	2.000
38	38	1	0.2000	0.000	0.000	0.000	2.000
39	39	1	0.2000	0.000	0.000	0.000	2.000
40	40	1	0.2000	0.000	0.000	0.000	2.000
41	41	1	0.2000	0.000	0.000	0.000	2.000
42	42	1	0.2000	0.000	0.000	0.000	2.000
43	43	1	0.2000	0.000	0.000	0.000	2.000
44	44	1	0.2000	0.000	0.000	0.000	2.000
45	45	1	0.2000	0.000	0.000	0.000	2.000

46	46	1	0.2000	0.000	0.000	0.000	0.000	2.000
47	47	1	0.2000	0.000	0.000	0.000	0.000	2.000
48	48	1	0.2000	0.000	0.000	0.000	0.000	2.000
49	49	1	0.2000	0.000	0.000	0.000	0.000	2.000
50	50	1	0.2000	0.000	0.000	0.000	0.000	2.000
51	51	1	0.2000	0.000	0.000	0.000	0.000	2.000
52	52	1	0.2000	0.000	0.000	0.000	0.000	2.000
53	53	1	0.2000	0.000	0.000	0.000	0.000	2.000
54	54	1	0.2000	0.000	0.000	0.000	0.000	2.000
55	55	1	0.2000	0.000	0.000	0.000	0.000	2.000
56	56	1	0.2000	0.000	0.000	0.000	0.000	2.000
57	57	1	0.2000	0.000	0.000	0.000	0.000	2.000
58	58	1	0.2000	0.000	0.000	0.000	0.000	2.000
59	59	1	0.2000	0.000	0.000	0.000	0.000	2.000
60	60	1	0.2000	0.000	0.000	0.000	0.000	2.000
61	61	1	0.2000	0.000	0.000	0.000	0.000	2.000
62	62	2	0.2000	0.000	0.000	0.000	0.000	2.000
63	63	2	0.2000	0.000	0.000	0.000	0.000	2.000
64	64	2	0.2000	0.000	0.000	0.000	0.000	2.000
65	65	2	0.2000	0.000	0.000	0.000	0.000	2.000
66	66	2	0.2000	0.000	0.000	0.000	0.000	2.000
67	67	2	0.2000	0.000	0.000	0.000	0.000	2.000
68	68	2	0.2000	0.000	0.000	0.000	0.000	2.000
69	69	2	0.2000	0.000	0.000	0.000	0.000	2.000
70	70	2	0.2000	0.000	0.000	0.000	0.000	2.000
71	71	2	0.2000	0.000	0.000	0.000	0.000	2.000
72	72	2	0.2000	0.000	0.000	0.000	0.000	2.000
73	73	2	0.2000	0.000	0.000	0.000	0.000	2.000
74	74	2	0.2000	0.000	0.000	0.000	0.000	2.000
75	75	2	0.2000	0.000	0.000	0.000	0.000	2.000
76	76	2	0.2000	0.000	0.000	0.000	0.000	2.000
77	77	2	0.2000	0.000	0.000	0.000	0.000	2.000
78	78	2	0.2000	0.000	0.000	0.000	0.000	2.000
79	79	2	0.2000	0.000	0.000	0.000	0.000	2.000
80	80	2	0.2000	0.000	0.000	0.000	0.000	2.000
81	81	2	0.1000	0.000	0.000	0.000	0.000	2.000

```

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|                                                                                               |
|          NewProject.BaseDesignSection_28.SISMICASTR_1817  |
|          Exe Time :24 May 2018          18:25:49  |
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```

ELEMENT GROUP NO. 3

```

WallElement_33      :
  2 80 0 1 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
7 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 ..... 0.00000

```

```

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
7 1.000

```

element data

e1	na	nb	mat	erc1	erc2	thick	by-i	by-j
1	1	2	1	0.000	0.000	0.8121	0.000	0.000
2	2	3	1	0.000	0.000	0.8121	0.000	0.000
3	3	4	1	0.000	0.000	0.8121	0.000	0.000
4	4	5	1	0.000	0.000	0.8121	0.000	0.000
5	5	6	1	0.000	0.000	0.8121	0.000	0.000
6	6	7	1	0.000	0.000	0.8121	0.000	0.000
7	7	8	1	0.000	0.000	0.8121	0.000	0.000
8	8	9	1	0.000	0.000	0.8121	0.000	0.000
9	9	10	1	0.000	0.000	0.8121	0.000	0.000
10	10	11	1	0.000	0.000	0.8121	0.000	0.000
11	11	12	1	0.000	0.000	0.8121	0.000	0.000
12	12	13	1	0.000	0.000	0.8121	0.000	0.000
13	13	14	1	0.000	0.000	0.8121	0.000	0.000
14	14	15	1	0.000	0.000	0.8121	0.000	0.000
15	15	16	1	0.000	0.000	0.8121	0.000	0.000
16	16	17	1	0.000	0.000	0.8121	0.000	0.000
17	17	18	1	0.000	0.000	0.8121	0.000	0.000
18	18	19	1	0.000	0.000	0.8121	0.000	0.000
19	19	20	1	0.000	0.000	0.8121	0.000	0.000
20	20	21	1	0.000	0.000	0.8121	0.000	0.000
21	21	22	1	0.000	0.000	0.8121	0.000	0.000
22	22	23	1	0.000	0.000	0.8121	0.000	0.000
23	23	24	1	0.000	0.000	0.8121	0.000	0.000
24	24	25	1	0.000	0.000	0.8121	0.000	0.000
25	25	26	1	0.000	0.000	0.8121	0.000	0.000
26	26	27	1	0.000	0.000	0.8121	0.000	0.000
27	27	28	1	0.000	0.000	0.8121	0.000	0.000
28	28	29	1	0.000	0.000	0.8121	0.000	0.000
29	29	30	1	0.000	0.000	0.8121	0.000	0.000
30	30	31	1	0.000	0.000	0.8121	0.000	0.000
31	31	32	1	0.000	0.000	0.8121	0.000	0.000
32	32	33	1	0.000	0.000	0.8121	0.000	0.000
33	33	34	1	0.000	0.000	0.8121	0.000	0.000
34	34	35	1	0.000	0.000	0.8121	0.000	0.000
35	35	36	1	0.000	0.000	0.8121	0.000	0.000
36	36	37	1	0.000	0.000	0.8121	0.000	0.000
37	37	38	1	0.000	0.000	0.8121	0.000	0.000
38	38	39	1	0.000	0.000	0.8121	0.000	0.000

39	39	40	1	0.000	0.000	0.8121	0.000	0.000
40	40	41	1	0.000	0.000	0.8121	0.000	0.000
41	41	42	1	0.000	0.000	0.8121	0.000	0.000
42	42	43	1	0.000	0.000	0.8121	0.000	0.000
43	43	44	1	0.000	0.000	0.8121	0.000	0.000
44	44	45	1	0.000	0.000	0.8121	0.000	0.000
45	45	46	1	0.000	0.000	0.8121	0.000	0.000
46	46	47	1	0.000	0.000	0.8121	0.000	0.000
47	47	48	1	0.000	0.000	0.8121	0.000	0.000
48	48	49	1	0.000	0.000	0.8121	0.000	0.000
49	49	50	1	0.000	0.000	0.8121	0.000	0.000
50	50	51	1	0.000	0.000	0.8121	0.000	0.000
51	51	52	1	0.000	0.000	0.8121	0.000	0.000
52	52	53	1	0.000	0.000	0.8121	0.000	0.000
53	53	54	1	0.000	0.000	0.8121	0.000	0.000
54	54	55	1	0.000	0.000	0.8121	0.000	0.000
55	55	56	1	0.000	0.000	0.8121	0.000	0.000
56	56	57	1	0.000	0.000	0.8121	0.000	0.000
57	57	58	1	0.000	0.000	0.8121	0.000	0.000
58	58	59	1	0.000	0.000	0.8121	0.000	0.000
59	59	60	1	0.000	0.000	0.8121	0.000	0.000
60	60	61	1	0.000	0.000	0.8121	0.000	0.000
61	61	62	1	0.000	0.000	0.8121	0.000	0.000
62	62	63	1	0.000	0.000	0.8121	0.000	0.000
63	63	64	1	0.000	0.000	0.8121	0.000	0.000
64	64	65	1	0.000	0.000	0.8121	0.000	0.000
65	65	66	1	0.000	0.000	0.8121	0.000	0.000
66	66	67	1	0.000	0.000	0.8121	0.000	0.000
67	67	68	1	0.000	0.000	0.8121	0.000	0.000
68	68	69	1	0.000	0.000	0.8121	0.000	0.000
69	69	70	1	0.000	0.000	0.8121	0.000	0.000
70	70	71	1	0.000	0.000	0.8121	0.000	0.000
71	71	72	1	0.000	0.000	0.8121	0.000	0.000
72	72	73	1	0.000	0.000	0.8121	0.000	0.000
73	73	74	1	0.000	0.000	0.8121	0.000	0.000
74	74	75	1	0.000	0.000	0.8121	0.000	0.000
75	75	76	1	0.000	0.000	0.8121	0.000	0.000
76	76	77	1	0.000	0.000	0.8121	0.000	0.000
77	77	78	1	0.000	0.000	0.8121	0.000	0.000
78	78	79	1	0.000	0.000	0.8121	0.000	0.000
79	79	80	1	0.000	0.000	0.8121	0.000	0.000
80	80	81	1	0.000	0.000	0.8121	0.000	0.000



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+-----+
|          PARATIEPLUS(TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|                               NewProject.BaseDesignSection_28.SISMICASTR_1817                    |
|                               Exe Time :24 May 2018      18:25:49                            |
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```
NO. OF NODAL LOADS (NLOAD) ..... 0
NO. OF LOAD CURVES (NLCUR) ..... 14
MAXIMUM POINTS/LCURVE (NPTM)..... 5
```

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|                                                                                               |
|          NewProject.BaseDesignSection_28.SISMICASTR_1817  |
|          Exe Time :24 May 2018          18:25:49  |
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```

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
8.00000	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
8.00000	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
8.00000	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
8.00000	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
8.00000	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
8.00000	0.0000E+00

LOAD FUNCTION NUMBER = 7  
NUMBER OF TIME POINTS = 5

TIME VALUE	FUNCTION
0.00000	0.0000E+00
6.80000	0.0000E+00
7.00000	0.1000E+01
7.20000	0.0000E+00
8.00000	0.0000E+00

LOAD FUNCTION NUMBER = 8  
NUMBER OF TIME POINTS = 4

TIME VALUE	FUNCTION
0.00000	0.0000E+00
0.80000	0.0000E+00
1.00000	0.1000E+01
8.00000	0.1000E+01

LOAD FUNCTION NUMBER = 9  
NUMBER OF TIME POINTS = 4

TIME VALUE	FUNCTION
0.00000	0.0000E+00
1.80000	0.0000E+00
2.00000	0.1000E+01
8.00000	0.1000E+01

LOAD FUNCTION NUMBER = 10  
NUMBER OF TIME POINTS = 4

TIME VALUE	FUNCTION
0.00000	0.0000E+00
2.80000	0.0000E+00
3.00000	0.1000E+01
8.00000	0.1000E+01

LOAD FUNCTION NUMBER = 11  
NUMBER OF TIME POINTS = 4

TIME VALUE	FUNCTION
0.00000	0.0000E+00
3.80000	0.0000E+00
4.00000	0.1000E+01
8.00000	0.1000E+01

LOAD FUNCTION NUMBER = 12  
NUMBER OF TIME POINTS = 4

TIME VALUE	FUNCTION
0.00000	0.0000E+00
4.80000	0.0000E+00
5.00000	0.1000E+01
8.00000	0.1000E+01

LOAD FUNCTION NUMBER = 13  
NUMBER OF TIME POINTS = 4

TIME VALUE	FUNCTION
0.00000	0.0000E+00
5.80000	0.0000E+00
6.00000	0.1000E+01
8.00000	0.1000E+01

LOAD FUNCTION NUMBER = 14  
NUMBER OF TIME POINTS = 4

TIME VALUE	FUNCTION
0.00000	0.0000E+00

6.80000	0.0000E+00
7.00000	0.1000E+01
8.00000	0.1000E+01

NO. OF DISTRIBUTED LOAD CARDS      0

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+-----+
|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*          |
|                                                                                                                                            |
|                                                                                                                                            |
|          NewProject.BaseDesignSection_28.SISMICASTR_1817                                          |
|          Exe Time :24 May 2018          18:25:49                                                |
+-----+

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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
STEP	7	TOTAL APPLIED LOAD IN DIR.	2	Y-DISPL.F	0.0000000
STEP	7	TOTAL APPLIED LOAD IN DIR.	4	X-ROT. F	0.0000000

LOAD INPUT SECTION COMPLETED

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+-----+
|          PARATIEPLUS(TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION  *Build date:Jul 11, 2017*          |
|                                                                                                                                            |
|                                                                                                                                            |
|          NewProject.BaseDesignSection_28.SISMICASTR_1817                                                                                   |
|          Exe Time :24 May 2018          18:25:49                                                                                           |
+-----+
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NO. OF LAYERS ..... 2
NO. OF DATA PER LAYER..... 100
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+-----+
|                PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                                  |
|                                                                                                  |
|                NewProject.BaseDesignSection_28.SISMICASTR_1817  |
|                Exe Time :24 May 2018  18:25:49  |
+-----+

```

LAYER DESCRIPTORS FOR STEP NO. 1

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

```

ITEM NO.  1<NAME      >= 18.000  (BOTH WALLS)
ITEM NO.  2<NATURE   >= 1.0000  (BOTH WALLS)
ITEM NO.  3<LEVEL    >= 0.0000  (BOTH WALLS)
ITEM NO.  4<WALL     >= 1.0000  (BOTH WALLS)
ITEM NO.  5<GAMMAD   >= 19.000  (BOTH WALLS)
ITEM NO.  6<GAMMAB   >= 10.000  (BOTH WALLS)
ITEM NO.  7<GAMMAW   >= 10.000  (BOTH WALLS)
ITEM NO.  9<U-FRICT  >= 37.000  (BOTH WALLS)
ITEM NO. 10<U-KA     >= 0.24900  WALL NO.  1
ITEM NO. 11<U-KP     >= 6.7380  WALL NO.  1
ITEM NO. 12<K0-NC    >= 0.50000  (BOTH WALLS)
ITEM NO. 13<NEXP     >= 0.50000  (BOTH WALLS)
ITEM NO. 14<OCR      >= 1.0000  (BOTH WALLS)
ITEM NO. 16<MODEL    >= 1.0000  (BOTH WALLS)
ITEM NO. 17<EVC      >= 50000.  (BOTH WALLS)
ITEM NO. 18<EUR      >= 0.15000E+06 (BOTH WALLS)
ITEM NO. 27<U-PERM   >= 0.10000E-03 (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 >= 37.000  (BOTH WALLS)
ITEM NO. 60<D-KA     >= 0.24900  WALL NO.  1
ITEM NO. 61<D-KP     >= 6.7380  WALL NO.  1
ITEM NO. 77<D-PERM   >= 0.10000E-03 (BOTH WALLS)

```

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

```

ITEM NO.  1<NAME      >= 19.000  (BOTH WALLS)
ITEM NO.  2<NATURE   >= 1.0000  (BOTH WALLS)
ITEM NO.  3<LEVEL    >= -12.000  (BOTH WALLS)
ITEM NO.  4<WALL     >= 1.0000  (BOTH WALLS)
ITEM NO.  5<GAMMAD   >= 18.500  (BOTH WALLS)
ITEM NO.  6<GAMMAB   >= 9.0000  (BOTH WALLS)
ITEM NO.  7<GAMMAW   >= 10.000  (BOTH WALLS)
ITEM NO.  8<U-COHE   >= 5.0000  (BOTH WALLS)
ITEM NO.  9<U-FRICT  >= 26.000  (BOTH WALLS)
ITEM NO. 10<U-KA     >= 0.39000  WALL NO.  1
ITEM NO. 11<U-KP     >= 3.4040  WALL NO.  1
ITEM NO. 12<K0-NC    >= 0.50000  (BOTH WALLS)
ITEM NO. 13<NEXP     >= 0.50000  (BOTH WALLS)
ITEM NO. 14<OCR      >= 1.0000  (BOTH WALLS)
ITEM NO. 16<MODEL    >= 1.0000  (BOTH WALLS)
ITEM NO. 17<EVC      >= 30000.  (BOTH WALLS)
ITEM NO. 18<EUR      >= 90000.  (BOTH WALLS)
ITEM NO. 27<U-PERM   >= 0.10000E-03 (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   >= 5.0000  (BOTH WALLS)
ITEM NO. 59<D-FRICT >= 26.000  (BOTH WALLS)
ITEM NO. 60<D-KA     >= 0.39000  WALL NO.  1
ITEM NO. 61<D-KP     >= 3.4040  WALL NO.  1
ITEM NO. 77<D-PERM   >= 0.10000E-03 (BOTH WALLS)

```

LAYER DESCRIPTORS FOR STEP NO. 2

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

```

ITEM NO.  1<NAME      >= 18.000  (BOTH WALLS)
ITEM NO.  2<NATURE   >= 1.0000  (BOTH WALLS)
ITEM NO.  3<LEVEL    >= 0.0000  (BOTH WALLS)
ITEM NO.  4<WALL     >= 1.0000  (BOTH WALLS)
ITEM NO.  5<GAMMAD   >= 19.000  (BOTH WALLS)
ITEM NO.  6<GAMMAB   >= 10.000  (BOTH WALLS)
ITEM NO.  7<GAMMAW   >= 10.000  (BOTH WALLS)
ITEM NO.  9<U-FRICT  >= 37.000  (BOTH WALLS)
ITEM NO. 10<U-KA     >= 0.24900  WALL NO.  1
ITEM NO. 11<U-KP     >= 6.7380  WALL NO.  1
ITEM NO. 12<K0-NC    >= 0.50000  (BOTH WALLS)
ITEM NO. 13<NEXP     >= 0.50000  (BOTH WALLS)
ITEM NO. 14<OCR      >= 1.0000  (BOTH WALLS)
ITEM NO. 16<MODEL    >= 1.0000  (BOTH WALLS)
ITEM NO. 17<EVC      >= 50000.  (BOTH WALLS)
ITEM NO. 18<EUR      >= 0.15000E+06 (BOTH WALLS)
ITEM NO. 27<U-PERM   >= 0.10000E-03 (BOTH WALLS)
ITEM NO. 52<D-NATURE>= 1.0000  (BOTH WALLS)
ITEM NO. 53<D-LEVEL >= 0.0000  (BOTH WALLS)

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ITEM NO. 59<D-FRICT >= 37.000 (BOTH WALLS)  
ITEM NO. 60<D-KA >= 0.24900 WALL NO. 1  
ITEM NO. 61<D-KP >= 6.7380 WALL NO. 1  
ITEM NO. 77<D-PERM >= 0.10000E-03 (BOTH WALLS)

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

ITEM NO. 1<NAME >= 19.000 (BOTH WALLS)  
ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)  
ITEM NO. 3<LEVEL >= -12.000 (BOTH WALLS)  
ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)  
ITEM NO. 5<GAMMAD >= 18.500 (BOTH WALLS)  
ITEM NO. 6<GAMMAB >= 9.0000 (BOTH WALLS)  
ITEM NO. 7<GAMMAW >= 10.000 (BOTH WALLS)  
ITEM NO. 8<U-COHE >= 5.0000 (BOTH WALLS)  
ITEM NO. 9<U-FRICT >= 26.000 (BOTH WALLS)  
ITEM NO. 10<U-KA >= 0.39000 WALL NO. 1  
ITEM NO. 11<U-KP >= 3.4040 WALL NO. 1  
ITEM NO. 12<K0-NC >= 0.50000 (BOTH WALLS)  
ITEM NO. 13<NEXP >= 0.50000 (BOTH WALLS)  
ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)  
ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)  
ITEM NO. 17<EVC >= 30000. (BOTH WALLS)  
ITEM NO. 18<EUR >= 90000. (BOTH WALLS)  
ITEM NO. 27<U-PERM >= 0.10000E-03 (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 >= 5.0000 (BOTH WALLS)  
ITEM NO. 59<D-FRICT >= 26.000 (BOTH WALLS)  
ITEM NO. 60<D-KA >= 0.39000 WALL NO. 1  
ITEM NO. 61<D-KP >= 3.4040 WALL NO. 1  
ITEM NO. 77<D-PERM >= 0.10000E-03 (BOTH WALLS)

LAYER DESCRIPTORS FOR STEP NO. 3

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

ITEM NO. 1<NAME >= 18.000 (BOTH WALLS)  
ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)  
ITEM NO. 3<LEVEL >= 0.0000 (BOTH WALLS)  
ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)  
ITEM NO. 5<GAMMAD >= 19.000 (BOTH WALLS)  
ITEM NO. 6<GAMMAB >= 10.000 (BOTH WALLS)  
ITEM NO. 7<GAMMAW >= 10.000 (BOTH WALLS)  
ITEM NO. 9<U-FRICT >= 37.000 (BOTH WALLS)  
ITEM NO. 10<U-KA >= 0.24900 WALL NO. 1  
ITEM NO. 11<U-KP >= 6.7380 WALL NO. 1  
ITEM NO. 12<K0-NC >= 0.50000 (BOTH WALLS)  
ITEM NO. 13<NEXP >= 0.50000 (BOTH WALLS)  
ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)  
ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)  
ITEM NO. 17<EVC >= 50000. (BOTH WALLS)  
ITEM NO. 18<EUR >= 0.15000E+06 (BOTH WALLS)  
ITEM NO. 27<U-PERM >= 0.10000E-03 (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 >= 37.000 (BOTH WALLS)  
ITEM NO. 60<D-KA >= 0.24900 WALL NO. 1  
ITEM NO. 61<D-KP >= 6.7380 WALL NO. 1  
ITEM NO. 77<D-PERM >= 0.10000E-03 (BOTH WALLS)

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

ITEM NO. 1<NAME >= 19.000 (BOTH WALLS)  
ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)  
ITEM NO. 3<LEVEL >= -12.000 (BOTH WALLS)  
ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)  
ITEM NO. 5<GAMMAD >= 18.500 (BOTH WALLS)  
ITEM NO. 6<GAMMAB >= 9.0000 (BOTH WALLS)  
ITEM NO. 7<GAMMAW >= 10.000 (BOTH WALLS)  
ITEM NO. 8<U-COHE >= 5.0000 (BOTH WALLS)  
ITEM NO. 9<U-FRICT >= 26.000 (BOTH WALLS)  
ITEM NO. 10<U-KA >= 0.39000 WALL NO. 1  
ITEM NO. 11<U-KP >= 3.4040 WALL NO. 1  
ITEM NO. 12<K0-NC >= 0.50000 (BOTH WALLS)  
ITEM NO. 13<NEXP >= 0.50000 (BOTH WALLS)  
ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)  
ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)  
ITEM NO. 17<EVC >= 30000. (BOTH WALLS)  
ITEM NO. 18<EUR >= 90000. (BOTH WALLS)  
ITEM NO. 27<U-PERM >= 0.10000E-03 (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 >= 5.0000 (BOTH WALLS)  
ITEM NO. 59<D-FRICT >= 26.000 (BOTH WALLS)  
ITEM NO. 60<D-KA >= 0.39000 WALL NO. 1  
ITEM NO. 61<D-KP >= 3.4040 WALL NO. 1  
ITEM NO. 77<D-PERM >= 0.10000E-03 (BOTH WALLS)

LAYER DESCRIPTORS FOR STEP NO. 4



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

ITEM NO. 1<NAME >= 18.000 (BOTH WALLS)  
 ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)  
 ITEM NO. 3<LEVEL >= 0.0000 (BOTH WALLS)  
 ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)  
 ITEM NO. 5<GAMMAD >= 19.000 (BOTH WALLS)  
 ITEM NO. 6<GAMMAB >= 10.000 (BOTH WALLS)  
 ITEM NO. 7<GAMMAW >= 10.000 (BOTH WALLS)  
 ITEM NO. 9<U-FRICT >= 37.000 (BOTH WALLS)  
 ITEM NO. 10<U-KA >= 0.24900 WALL NO. 1  
 ITEM NO. 11<U-KP >= 6.7380 WALL NO. 1  
 ITEM NO. 12<K0-NC >= 0.50000 (BOTH WALLS)  
 ITEM NO. 13<NEXP >= 0.50000 (BOTH WALLS)  
 ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)  
 ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)  
 ITEM NO. 17<EVC >= 50000. (BOTH WALLS)  
 ITEM NO. 18<EUR >= 0.15000E+06 (BOTH WALLS)  
 ITEM NO. 27<U-PERM >= 0.10000E-03 (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 >= 37.000 (BOTH WALLS)  
 ITEM NO. 60<D-KA >= 0.24900 WALL NO. 1  
 ITEM NO. 61<D-KP >= 6.7380 WALL NO. 1  
 ITEM NO. 77<D-PERM >= 0.10000E-03 (BOTH WALLS)

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

ITEM NO. 1<NAME >= 19.000 (BOTH WALLS)  
 ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)  
 ITEM NO. 3<LEVEL >= -12.000 (BOTH WALLS)  
 ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)  
 ITEM NO. 5<GAMMAD >= 18.500 (BOTH WALLS)  
 ITEM NO. 6<GAMMAB >= 9.0000 (BOTH WALLS)  
 ITEM NO. 7<GAMMAW >= 10.000 (BOTH WALLS)  
 ITEM NO. 8<U-COHE >= 5.0000 (BOTH WALLS)  
 ITEM NO. 9<U-FRICT >= 26.000 (BOTH WALLS)  
 ITEM NO. 10<U-KA >= 0.39000 WALL NO. 1  
 ITEM NO. 11<U-KP >= 3.4040 WALL NO. 1  
 ITEM NO. 12<K0-NC >= 0.50000 (BOTH WALLS)  
 ITEM NO. 13<NEXP >= 0.50000 (BOTH WALLS)  
 ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)  
 ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)  
 ITEM NO. 17<EVC >= 30000. (BOTH WALLS)  
 ITEM NO. 18<EUR >= 90000. (BOTH WALLS)  
 ITEM NO. 27<U-PERM >= 0.10000E-03 (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 >= 5.0000 (BOTH WALLS)  
 ITEM NO. 59<D-FRICT >= 26.000 (BOTH WALLS)  
 ITEM NO. 60<D-KA >= 0.39000 WALL NO. 1  
 ITEM NO. 61<D-KP >= 3.4040 WALL NO. 1  
 ITEM NO. 77<D-PERM >= 0.10000E-03 (BOTH WALLS)

LAYER DESCRIPTORS FOR STEP NO. 5

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

ITEM NO. 1<NAME >= 18.000 (BOTH WALLS)  
 ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)  
 ITEM NO. 3<LEVEL >= 0.0000 (BOTH WALLS)  
 ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)  
 ITEM NO. 5<GAMMAD >= 19.000 (BOTH WALLS)  
 ITEM NO. 6<GAMMAB >= 10.000 (BOTH WALLS)  
 ITEM NO. 7<GAMMAW >= 10.000 (BOTH WALLS)  
 ITEM NO. 9<U-FRICT >= 37.000 (BOTH WALLS)  
 ITEM NO. 10<U-KA >= 0.24900 WALL NO. 1  
 ITEM NO. 11<U-KP >= 6.7380 WALL NO. 1  
 ITEM NO. 12<K0-NC >= 0.50000 (BOTH WALLS)  
 ITEM NO. 13<NEXP >= 0.50000 (BOTH WALLS)  
 ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)  
 ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)  
 ITEM NO. 17<EVC >= 50000. (BOTH WALLS)  
 ITEM NO. 18<EUR >= 0.15000E+06 (BOTH WALLS)  
 ITEM NO. 27<U-PERM >= 0.10000E-03 (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 >= 37.000 (BOTH WALLS)  
 ITEM NO. 60<D-KA >= 0.24900 WALL NO. 1  
 ITEM NO. 61<D-KP >= 6.7380 WALL NO. 1  
 ITEM NO. 77<D-PERM >= 0.10000E-03 (BOTH WALLS)

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

ITEM NO. 1<NAME >= 19.000 (BOTH WALLS)  
 ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)  
 ITEM NO. 3<LEVEL >= -12.000 (BOTH WALLS)  
 ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)

ITEM NO. 5<GAMMAD >= 18.500 (BOTH WALLS)  
ITEM NO. 6<GAMMAB >= 9.0000 (BOTH WALLS)  
ITEM NO. 7<GAMMAW >= 10.000 (BOTH WALLS)  
ITEM NO. 8<U-COHE >= 5.0000 (BOTH WALLS)  
ITEM NO. 9<U-FRICT >= 26.000 (BOTH WALLS)  
ITEM NO. 10<U-KA >= 0.39000 WALL NO. 1  
ITEM NO. 11<U-KP >= 3.4040 WALL NO. 1  
ITEM NO. 12<K0-NC >= 0.50000 (BOTH WALLS)  
ITEM NO. 13<NEXP >= 0.50000 (BOTH WALLS)  
ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)  
ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)  
ITEM NO. 17<EVC >= 30000. (BOTH WALLS)  
ITEM NO. 18<EUR >= 90000. (BOTH WALLS)  
ITEM NO. 27<U-PERM >= 0.10000E-03 (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 >= 5.0000 (BOTH WALLS)  
ITEM NO. 59<D-FRICT >= 26.000 (BOTH WALLS)  
ITEM NO. 60<D-KA >= 0.39000 WALL NO. 1  
ITEM NO. 61<D-KP >= 3.4040 WALL NO. 1  
ITEM NO. 77<D-PERM >= 0.10000E-03 (BOTH WALLS)

LAYER DESCRIPTORS FOR STEP NO. 6

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

ITEM NO. 1<NAME >= 18.000 (BOTH WALLS)  
ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)  
ITEM NO. 3<LEVEL >= 0.0000 (BOTH WALLS)  
ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)  
ITEM NO. 5<GAMMAD >= 19.000 (BOTH WALLS)  
ITEM NO. 6<GAMMAB >= 10.000 (BOTH WALLS)  
ITEM NO. 7<GAMMAW >= 10.000 (BOTH WALLS)  
ITEM NO. 9<U-FRICT >= 37.000 (BOTH WALLS)  
ITEM NO. 10<U-KA >= 0.24900 WALL NO. 1  
ITEM NO. 11<U-KP >= 6.7380 WALL NO. 1  
ITEM NO. 12<K0-NC >= 0.50000 (BOTH WALLS)  
ITEM NO. 13<NEXP >= 0.50000 (BOTH WALLS)  
ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)  
ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)  
ITEM NO. 17<EVC >= 50000. (BOTH WALLS)  
ITEM NO. 18<EUR >= 0.15000E+06 (BOTH WALLS)  
ITEM NO. 27<U-PERM >= 0.10000E-03 (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 >= 37.000 (BOTH WALLS)  
ITEM NO. 60<D-KA >= 0.24900 WALL NO. 1  
ITEM NO. 61<D-KP >= 6.7380 WALL NO. 1  
ITEM NO. 77<D-PERM >= 0.10000E-03 (BOTH WALLS)

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

ITEM NO. 1<NAME >= 19.000 (BOTH WALLS)  
ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)  
ITEM NO. 3<LEVEL >= -12.000 (BOTH WALLS)  
ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)  
ITEM NO. 5<GAMMAD >= 18.500 (BOTH WALLS)  
ITEM NO. 6<GAMMAB >= 9.0000 (BOTH WALLS)  
ITEM NO. 7<GAMMAW >= 10.000 (BOTH WALLS)  
ITEM NO. 8<U-COHE >= 5.0000 (BOTH WALLS)  
ITEM NO. 9<U-FRICT >= 26.000 (BOTH WALLS)  
ITEM NO. 10<U-KA >= 0.39000 WALL NO. 1  
ITEM NO. 11<U-KP >= 3.4040 WALL NO. 1  
ITEM NO. 12<K0-NC >= 0.50000 (BOTH WALLS)  
ITEM NO. 13<NEXP >= 0.50000 (BOTH WALLS)  
ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)  
ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)  
ITEM NO. 17<EVC >= 30000. (BOTH WALLS)  
ITEM NO. 18<EUR >= 90000. (BOTH WALLS)  
ITEM NO. 27<U-PERM >= 0.10000E-03 (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 >= 5.0000 (BOTH WALLS)  
ITEM NO. 59<D-FRICT >= 26.000 (BOTH WALLS)  
ITEM NO. 60<D-KA >= 0.39000 WALL NO. 1  
ITEM NO. 61<D-KP >= 3.4040 WALL NO. 1  
ITEM NO. 77<D-PERM >= 0.10000E-03 (BOTH WALLS)

LAYER DESCRIPTORS FOR STEP NO. 7

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 1 FOR STEP NO. 7

ITEM NO. 1<NAME >= 18.000 (BOTH WALLS)  
ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)  
ITEM NO. 3<LEVEL >= 0.0000 (BOTH WALLS)  
ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)  
ITEM NO. 5<GAMMAD >= 19.000 (BOTH WALLS)  
ITEM NO. 6<GAMMAB >= 10.000 (BOTH WALLS)  
ITEM NO. 7<GAMMAW >= 10.000 (BOTH WALLS)

ITEM NO.	9<U-FRICT	>= 37.000	(BOTH WALLS)	
ITEM NO.	10<U-KA	>= 0.24900	WALL NO.	1
ITEM NO.	11<U-KP	>= 6.7380	WALL NO.	1
ITEM NO.	12<K0-NC	>= 0.50000	(BOTH WALLS)	
ITEM NO.	13<NEXP	>= 0.50000	(BOTH WALLS)	
ITEM NO.	14<OCR	>= 1.0000	(BOTH WALLS)	
ITEM NO.	16<MODEL	>= 1.0000	(BOTH WALLS)	
ITEM NO.	17<EVC	>= 50000.	(BOTH WALLS)	
ITEM NO.	18<EUR	>= 0.15000E+06	(BOTH WALLS)	
ITEM NO.	27<U-PERM	>= 0.10000E-03	(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	>= 37.000	(BOTH WALLS)	
ITEM NO.	60<D-KA	>= 0.24900	WALL NO.	1
ITEM NO.	61<D-KP	>= 6.7380	WALL NO.	1
ITEM NO.	77<D-PERM	>= 0.10000E-03	(BOTH WALLS)	

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 2 FOR STEP NO. 7

ITEM NO.	1<NAME	>= 19.000	(BOTH WALLS)	
ITEM NO.	2<NATURE	>= 1.0000	(BOTH WALLS)	
ITEM NO.	3<LEVEL	>= -12.000	(BOTH WALLS)	
ITEM NO.	4<WALL	>= 1.0000	(BOTH WALLS)	
ITEM NO.	5<GAMMAD	>= 18.500	(BOTH WALLS)	
ITEM NO.	6<GAMMAB	>= 9.0000	(BOTH WALLS)	
ITEM NO.	7<GAMMAW	>= 10.000	(BOTH WALLS)	
ITEM NO.	8<U-COHE	>= 5.0000	(BOTH WALLS)	
ITEM NO.	9<U-FRICT	>= 26.000	(BOTH WALLS)	
ITEM NO.	10<U-KA	>= 0.39000	WALL NO.	1
ITEM NO.	11<U-KP	>= 3.4040	WALL NO.	1
ITEM NO.	12<K0-NC	>= 0.50000	(BOTH WALLS)	
ITEM NO.	13<NEXP	>= 0.50000	(BOTH WALLS)	
ITEM NO.	14<OCR	>= 1.0000	(BOTH WALLS)	
ITEM NO.	16<MODEL	>= 1.0000	(BOTH WALLS)	
ITEM NO.	17<EVC	>= 30000.	(BOTH WALLS)	
ITEM NO.	18<EUR	>= 90000.	(BOTH WALLS)	
ITEM NO.	27<U-PERM	>= 0.10000E-03	(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	>= 5.0000	(BOTH WALLS)	
ITEM NO.	59<D-FRICT	>= 26.000	(BOTH WALLS)	
ITEM NO.	60<D-KA	>= 0.39000	WALL NO.	1
ITEM NO.	61<D-KP	>= 3.4040	WALL NO.	1
ITEM NO.	77<D-PERM	>= 0.10000E-03	(BOTH WALLS)	

DEFAULT WATER UNIT WEIGHT = 10.000  
 AVERAGED ON 14 VALUES

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|                                                                                               |
|          NewProject.BaseDesignSection_28.SISMICASTR_1817  |
|          Exe Time :24 May 2018      18:25:49  |
|-----+-----

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PHASE DESCRIPTORS

```

STEP NO.      1

LEFT WALL      RIGHT WALL
Y              0.000      -0.9990E+30
Z-PC           0.000      0.000
Z-EXCAVATION   0.000      0.000
Z-WATER_TABLE  0.000      -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 1

```

```

STEP NO.      2

LEFT WALL      RIGHT WALL
Y              0.000      -0.9990E+30
Z-PC           0.000      0.000
Z-EXCAVATION   -1.000      0.000
Z-WATER_TABLE  0.000      -0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL  0.000      0.000
ZQ             0.000      0.000
DZW_OF_THE_WATER_TABLE  1.000      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

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STEP NO.      3

LEFT WALL      RIGHT WALL

```

Y	0.000	-0.9990E+30
Z-PC	0.000	0.000
Z-EXCAVATION	-2.000	0.000
Z-WATER_TABLE	0.000	-0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL	0.000	0.000
ZQ	0.000	0.000
DZW_OF_THE_WATER_TABLE	2.000	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		0.000	0.000
Z-EXCAVATION		-3.000	0.000
Z-WATER_TABLE		0.000	-0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL		0.000	0.000
ZQ		0.000	0.000
DZW_OF_THE_WATER_TABLE		3.000	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		0.000	0.000
Z-EXCAVATION		-4.000	0.000
Z-WATER_TABLE		0.000	-0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL		0.000	0.000
ZQ		0.000	0.000
DZW_OF_THE_WATER_TABLE		4.000	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	0.000	0.000
Z-EXCAVATION	-4.500	0.000
Z-WATER_TABLE	0.000	-0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL	0.000	0.000
ZQ	0.000	0.000
DZW_OF_THE_WATER_TABLE	4.500	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

STEP NO. 7

	LEFT WALL	RIGHT WALL
Y	0.000	-0.9990E+30
Z-PC	0.000	0.000
Z-EXCAVATION	-4.500	0.000
Z-WATER_TABLE	0.000	-0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL	0.000	0.000
ZQ	0.000	0.000
DZW_OF_THE_WATER_TABLE	4.500	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   7

LEFT-HAND WALL

LOWER LEVEL           -16.00000  
UPPER LEVEL            0.00000

RIGHT-HAND WALL

LOWER LEVEL           -16.00000  
UPPER LEVEL            0.00000

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION *Build date:Jul 11, 2017* |
|                                                                                               |
|                                                                                               |
|          NewProject.BaseDesignSection_28.SISMICASTR_1817 |
|          Exe Time :24 May 2018          18:25:49 |
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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) 1.0000000000000000  
 FOUNDATION WIDTH (B) 11.7500000000000000  
 ZETA-F..... 0.0000000000000000E+000  
 Q-F ..... 5.0000000000000000  
 BETA ..... 45.0000000000000000  
 BEHAVIOUR (0=FREE, 1=REFLECTING) 0.0000000000000000E+000

ELEMENT GROUPS BACKUP AREA CAN STAY IN CORE AT  
 POSITION 4763

NO. OF D.P.W FOR THIS AREA 9554  
 MAX NO. OF D.P.W. AVAILABLE 81920  
 \*\* MAX NO OF ITERATIONS SET TO 40

ITER 0 RNORM = 0.000 RMNORM= 0.000  
 RINORM=0.1221E+06 RIMNOR= 0.000  
 RENORM=0.2753E-27 REMNOR= 0.000 RATIO =0.4748E-16 TOLER =0.1000E-03 CONVERGED !  
 RFMAX = 47.08 RMMAX = 0.000  
 RTSMAL=0.1000E-03 RMSMAL= 0.000  
 RDT =0.1221E+06 RDR = 0.000  
 RATIOI=0.4748E-16 RATIOOR= 0.000  
 MAX UN=0.7105E-14 IEQ= 143 NODE 72 DOF 1 Y-DISPL.F  
 MIN UN=-.7105E-14 IEQ= 147 NODE 74 DOF 1 Y-DISPL.F  
 NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 1 RNORM = 0.000 RMNORM= 0.000  
 RINORM=0.1221E+06 RIMNOR= 0.000  
 RENORM=0.1697E-29 REMNOR=0.1582E-52 RATIO =0.3727E-17 TOLER =0.1000E-03 CONVERGED !  
 RFMAX = 47.08 RMMAX = 0.000  
 RTSMAL=0.1000E-03 RMSMAL= 0.000  
 RDT =0.1221E+06 RDR = 0.000  
 RATIOI=0.3727E-17 RATIOOR= 0.000  
 MAX UN=0.5014E-17 IEQ= 119 NODE 60 DOF 1 Y-DISPL.F  
 MIN UN=-.2372E-15 IEQ= 35 NODE 18 DOF 1 Y-DISPL.F  
 NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 2 RNORM = 0.000 RMNORM= 0.000  
 RINORM=0.1221E+06 RIMNOR= 0.000  
 RENORM=0.1468E-29 REMNOR=0.6218E-52 RATIO =0.3467E-17 TOLER =0.1000E-03 CONVERGED !  
 RFMAX = 47.08 RMMAX = 0.000  
 RTSMAL=0.1000E-03 RMSMAL= 0.000  
 RDT =0.1221E+06 RDR = 0.000  
 RATIOI=0.3467E-17 RATIOOR= 0.000  
 MAX UN=0.2676E-26 IEQ= 158 NODE 79 DOF 2 X-ROT. F  
 MIN UN=-.2058E-15 IEQ= 17 NODE 9 DOF 1 Y-DISPL.F  
 NO. OF CONTACT CONSTRAINT VIOLATIONS 0



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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION *Build date:Jul 11, 2017*  |
|                                                                                               |
|                               NewProject.BaseDesignSection_28.SISMICASTR_1817                    |
|                               Exe Time :24 May 2018      18:25:49                               |
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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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|                PARATIEPLUS(TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION *Build date:Jul 11, 2017*                |
|                                                                                                                                            |
|                                                                                                                                            |
|                NewProject.BaseDesignSection_28.SISMICASTR_l817                                                                                   |
|                Exe Time :24 May 2018  18:25:49                                                                                             |
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New Project

STRESS RESULTS FOR GROUP NO. 1

0\_L  
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 81  
CURRENT TIME IS 1.0000

HARDENING 2D SOIL ELEMENT

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

EL * FACTOR	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
1 D	0.000	2.4162E-20	0.000	0.000	0.000	0.000	V-C	4.7008E+04	0.000	0.000	
1.000	1.000	0.000	0.000	0.000	Ug5_2_8_L_0						
2 D	0.7141	2.4777E-20	2.008	1.570	2.008	1.570	V-C	4.7008E+04	-0.2000	2.000	
1.000	1.000	3.570	0.000	0.000	Ug5_2_8_L_0						
3 D	1.411	2.5391E-20	4.057	3.055	4.057	3.055	V-C	4.7008E+04	-0.4000	4.000	
1.000	1.000	7.055	0.000	0.000	Ug5_2_8_L_0						
4 D	2.083	2.6003E-20	6.158	4.413	6.158	4.413	V-C	4.7008E+04	-0.6000	6.000	
1.000	1.000	10.41	0.000	0.000	Ug5_2_8_L_0						
5 D	2.730	2.6609E-20	8.297	5.651	8.297	5.651	V-C	4.7008E+04	-0.8000	8.000	
1.000	1.000	13.65	0.000	0.000	Ug5_2_8_L_0						
6 D	3.359	2.7206E-20	10.45	6.797	10.45	6.797	V-C	4.7008E+04	-1.000	10.00	
1.000	1.000	16.80	0.000	0.000	Ug5_2_8_L_0						
7 D	3.976	2.7788E-20	12.61	7.879	12.61	7.879	V-C	4.7008E+04	-1.200	12.00	
1.000	1.000	19.88	0.000	0.000	Ug5_2_8_L_0						
8 D	4.584	2.8348E-20	14.87	8.919	14.87	8.919	V-C	4.7008E+04	-1.400	14.00	
1.000	1.000	22.92	0.000	0.000	Ug5_2_8_L_0						
9 D	5.186	2.8881E-20	17.18	9.931	17.18	9.931	V-C	4.7008E+04	-1.600	16.00	
1.000	1.000	25.93	0.000	0.000	Ug5_2_8_L_0						
10 D	5.785	2.9375E-20	19.26	10.93	19.26	10.93	V-C	4.7008E+04	-1.800	18.00	
1.000	1.000	28.93	0.000	0.000	Ug5_2_8_L_0						
11 D	6.381	2.9823E-20	21.48	11.91	21.48	11.91	V-C	4.7008E+04	-2.000	20.00	
1.000	1.000	31.91	0.000	0.000	Ug5_2_8_L_0						
12 D	6.976	3.0212E-20	23.67	12.88	23.67	12.88	V-C	4.7008E+04	-2.200	22.00	
1.000	1.000	34.88	0.000	0.000	Ug5_2_8_L_0						
13 D	7.570	3.0536E-20	25.71	13.85	25.71	13.85	V-C	4.7008E+04	-2.400	24.00	
1.000	1.000	37.85	0.000	0.000	Ug5_2_8_L_0						
14 D	8.163	3.0786E-20	27.86	14.82	27.86	14.82	V-C	4.7008E+04	-2.600	26.00	
1.000	1.000	40.82	0.000	0.000	Ug5_2_8_L_0						
15 D	8.756	3.0954E-20	29.98	15.78	29.98	15.78	V-C	4.7008E+04	-2.800	28.00	
1.000	1.000	43.78	0.000	0.000	Ug5_2_8_L_0						
16 D	9.349	3.1038E-20	32.10	16.74	32.10	16.74	V-C	4.7008E+04	-3.000	30.00	
1.000	1.000	46.74	0.000	0.000	Ug5_2_8_L_0						
17 D	9.941	3.1035E-20	34.11	17.70	34.11	17.70	V-C	4.7008E+04	-3.200	32.00	
1.000	1.000	49.70	0.000	0.000	Ug5_2_8_L_0						
18 D	10.53	3.0944E-20	36.20	18.66	36.20	18.66	V-C	4.7008E+04	-3.400	34.00	
1.000	1.000	52.66	0.000	0.000	Ug5_2_8_L_0						
19 D	11.13	3.0761E-20	38.29	19.63	38.29	19.63	V-C	4.7008E+04	-3.600	36.00	
1.000	1.000	55.63	0.000	0.000	Ug5_2_8_L_0						
20 D	11.72	3.0479E-20	40.29	20.59	40.29	20.59	V-C	4.7008E+04	-3.800	38.00	
1.000	1.000	58.59	0.000	0.000	Ug5_2_8_L_0						
21 D	12.31	3.0094E-20	42.36	21.55	42.36	21.55	V-C	4.7008E+04	-4.000	40.00	
1.000	1.000	61.55	0.000	0.000	Ug5_2_8_L_0						
22 D	12.90	2.9610E-20	44.43	22.51	44.43	22.51	V-C	4.7008E+04	-4.200	42.00	
1.000	1.000	64.51	0.000	0.000	Ug5_2_8_L_0						
23 D	13.49	2.9036E-20	46.43	23.47	46.43	23.47	V-C	4.7008E+04	-4.400	44.00	
1.000	1.000	67.47	0.000	0.000	Ug5_2_8_L_0						
24 D	14.09	2.8383E-20	48.48	24.43	48.48	24.43	V-C	4.7008E+04	-4.600	46.00	
1.000	1.000	70.43	0.000	0.000	Ug5_2_8_L_0						
25 D	14.68	2.7660E-20	50.54	25.39	50.54	25.39	V-C	4.7008E+04	-4.800	48.00	
1.000	1.000	73.39	0.000	0.000	Ug5_2_8_L_0						
26 D	15.27	2.6876E-20	52.59	26.36	52.59	26.36	V-C	4.7008E+04	-5.000	50.00	
1.000	1.000	76.36	0.000	0.000	Ug5_2_8_L_0						
27 D	15.86	2.6040E-20	54.58	27.32	54.58	27.32	V-C	4.7008E+04	-5.200	52.00	
1.000	1.000	79.32	0.000	0.000	Ug5_2_8_L_0						
28 D	16.46	2.5156E-20	56.63	28.28	56.63	28.28	V-C	4.7008E+04	-5.400	54.00	
1.000	1.000	82.28	0.000	0.000	Ug5_2_8_L_0						
29 D	17.05	2.4232E-20	58.67	29.25	58.67	29.25	V-C	4.7008E+04	-5.600	56.00	
1.000	1.000	85.25	0.000	0.000	Ug5_2_8_L_0						
30 D	17.64	2.3274E-20	60.66	30.22	60.66	30.22	V-C	4.7008E+04	-5.800	58.00	
1.000	1.000	88.22	0.000	0.000	Ug5_2_8_L_0						
31 D	18.24	2.2304E-20	62.70	31.18	62.70	31.18	V-C	4.7008E+04	-6.000	60.00	
1.000	1.000	91.18	0.000	0.000	Ug5_2_8_L_0						
32 D	18.83	2.1345E-20	64.74	32.15	64.74	32.15	V-C	4.7008E+04	-6.200	62.00	
1.000	1.000	94.15	0.000	0.000	Ug5_2_8_L_0						
33 D	19.42	2.0416E-20	66.73	33.12	66.73	33.12	V-C	4.7008E+04	-6.400	64.00	

1.000	1.000	97.12	0.000	0.000	Ug5_2_8_L_0					
34 D	20.02	1.9521E-20	68.76	34.09	68.76	34.09	V-C	4.7008E+04	-6.600	66.00
1.000	1.000	100.1	0.000	0.000	Ug5_2_8_L_0					
35 D	20.61	1.8661E-20	70.79	35.06	70.79	35.06	V-C	4.7008E+04	-6.800	68.00
1.000	1.000	103.1	0.000	0.000	Ug5_2_8_L_0					
36 D	21.21	1.7835E-20	72.82	36.03	72.82	36.03	V-C	4.7008E+04	-7.000	70.00
1.000	1.000	106.0	0.000	0.000	Ug5_2_8_L_0					
37 D	21.80	1.7042E-20	74.81	37.00	74.81	37.00	V-C	4.7008E+04	-7.200	72.00
1.000	1.000	109.0	0.000	0.000	Ug5_2_8_L_0					
38 D	22.39	1.6281E-20	76.84	37.97	76.84	37.97	V-C	4.7008E+04	-7.400	74.00
1.000	1.000	112.0	0.000	0.000	Ug5_2_8_L_0					
39 D	22.99	1.5549E-20	78.86	38.94	78.86	38.94	V-C	4.7008E+04	-7.600	76.00
1.000	1.000	114.9	0.000	0.000	Ug5_2_8_L_0					
40 D	23.58	1.4839E-20	80.85	39.92	80.85	39.92	V-C	4.7008E+04	-7.800	78.00
1.000	1.000	117.9	0.000	0.000	Ug5_2_8_L_0					
41 D	24.18	1.4135E-20	82.88	40.89	82.88	40.89	V-C	4.7008E+04	-8.000	80.00
1.000	1.000	120.9	0.000	0.000	Ug5_2_8_L_0					
42 D	24.77	1.3428E-20	84.90	41.86	84.90	41.86	V-C	4.7008E+04	-8.200	82.00
1.000	1.000	123.9	0.000	0.000	Ug5_2_8_L_0					
43 D	25.37	1.2714E-20	86.89	42.84	86.89	42.84	V-C	4.7008E+04	-8.400	84.00
1.000	1.000	126.8	0.000	0.000	Ug5_2_8_L_0					
44 D	25.96	1.1987E-20	88.91	43.82	88.91	43.82	V-C	4.7008E+04	-8.600	86.00
1.000	1.000	129.8	0.000	0.000	Ug5_2_8_L_0					
45 D	26.56	1.1242E-20	90.93	44.79	90.93	44.79	V-C	4.7008E+04	-8.800	88.00
1.000	1.000	132.8	0.000	0.000	Ug5_2_8_L_0					
46 D	27.15	1.0475E-20	92.96	45.77	92.96	45.77	V-C	4.7008E+04	-9.000	90.00
1.000	1.000	135.8	0.000	0.000	Ug5_2_8_L_0					
47 D	27.75	9.6966E-21	94.94	46.75	94.94	46.75	V-C	4.7008E+04	-9.200	92.00
1.000	1.000	138.7	0.000	0.000	Ug5_2_8_L_0					
48 D	28.35	8.9200E-21	96.96	47.73	96.96	47.73	V-C	4.7008E+04	-9.400	94.00
1.000	1.000	141.7	0.000	0.000	Ug5_2_8_L_0					
49 D	28.94	8.1574E-21	98.98	48.71	98.98	48.71	V-C	4.7008E+04	-9.600	96.00
1.000	1.000	144.7	0.000	0.000	Ug5_2_8_L_0					
50 D	29.54	7.4213E-21	101.0	49.69	101.0	49.69	V-C	4.7008E+04	-9.800	98.00
1.000	1.000	147.7	0.000	0.000	Ug5_2_8_L_0					
51 D	30.13	6.7233E-21	103.0	50.67	103.0	50.67	V-C	4.7008E+04	-10.00	100.00
1.000	1.000	150.7	0.000	0.000	Ug5_2_8_L_0					
52 D	30.73	6.0750E-21	105.0	51.65	105.0	51.65	V-C	4.7008E+04	-10.20	102.0
1.000	1.000	153.6	0.000	0.000	Ug5_2_8_L_0					
53 D	31.33	5.4877E-21	107.0	52.63	107.0	52.63	V-C	4.7008E+04	-10.40	104.0
1.000	1.000	156.6	0.000	0.000	Ug5_2_8_L_0					
54 D	31.92	4.9720E-21	109.0	53.61	109.0	53.61	V-C	4.7008E+04	-10.60	106.0
1.000	1.000	159.6	0.000	0.000	Ug5_2_8_L_0					
55 D	32.52	4.5386E-21	111.0	54.60	111.0	54.60	V-C	4.7008E+04	-10.80	108.0
1.000	1.000	162.6	0.000	0.000	Ug5_2_8_L_0					
56 D	33.12	4.1976E-21	113.0	55.58	113.0	55.58	V-C	4.7008E+04	-11.00	110.0
1.000	1.000	165.6	0.000	0.000	Ug5_2_8_L_0					
57 D	33.71	3.9590E-21	115.0	56.56	115.0	56.56	V-C	4.7008E+04	-11.20	112.0
1.000	1.000	168.6	0.000	0.000	Ug5_2_8_L_0					
58 D	34.31	3.8323E-21	117.0	57.55	117.0	57.55	V-C	4.7008E+04	-11.40	114.0
1.000	1.000	171.5	0.000	0.000	Ug5_2_8_L_0					
59 D	34.91	3.8269E-21	119.1	58.53	119.1	58.53	V-C	4.7008E+04	-11.60	116.0
1.000	1.000	174.5	0.000	0.000	Ug5_2_8_L_0					
60 D	35.50	3.9516E-21	121.1	59.52	121.1	59.52	V-C	4.7008E+04	-11.80	118.0
1.000	1.000	177.5	0.000	0.000	Ug5_2_8_L_0					
61 D	36.10	4.2151E-21	123.1	60.50	123.1	60.50	V-C	4.7008E+04	-12.00	120.0
1.000	1.000	180.5	0.000	0.000	Ug5_2_8_L_0					
62 D	36.68	4.6256E-21	124.9	61.39	124.9	61.39	V-C	2.2505E+04	-12.20	122.0
1.000	1.000	183.4	0.000	0.000	Ug6_741_743_L_0					
63 D	37.26	5.1912E-21	126.7	62.28	126.7	62.28	V-C	2.2505E+04	-12.40	124.0
1.000	1.000	186.3	0.000	0.000	Ug6_741_743_L_0					
64 D	37.83	5.9194E-21	128.5	63.16	128.5	63.16	V-C	2.2505E+04	-12.60	126.0
1.000	1.000	189.2	0.000	0.000	Ug6_741_743_L_0					
65 D	38.41	6.8179E-21	130.3	64.05	130.3	64.05	V-C	2.2505E+04	-12.80	128.0
1.000	1.000	192.1	0.000	0.000	Ug6_741_743_L_0					
66 D	38.99	7.8937E-21	132.0	64.94	132.0	64.94	V-C	2.2505E+04	-13.00	130.0
1.000	1.000	194.9	0.000	0.000	Ug6_741_743_L_0					
67 D	39.57	9.1538E-21	133.8	65.83	133.8	65.83	V-C	2.2505E+04	-13.20	132.0
1.000	1.000	197.8	0.000	0.000	Ug6_741_743_L_0					
68 D	40.14	1.0605E-20	135.6	66.72	135.6	66.72	V-C	2.2505E+04	-13.40	134.0
1.000	1.000	200.7	0.000	0.000	Ug6_741_743_L_0					
69 D	40.72	1.2254E-20	137.3	67.60	137.3	67.60	V-C	2.2505E+04	-13.60	136.0
1.000	1.000	203.6	0.000	0.000	Ug6_741_743_L_0					
70 D	41.30	1.4106E-20	139.1	68.49	139.1	68.49	V-C	2.2505E+04	-13.80	138.0
1.000	1.000	206.5	0.000	0.000	Ug6_741_743_L_0					
71 D	41.88	1.6167E-20	140.9	69.38	140.9	69.38	V-C	2.2505E+04	-14.00	140.0
1.000	1.000	209.4	0.000	0.000	Ug6_741_743_L_0					
72 D	42.45	1.8436E-20	142.7	70.27	142.7	70.27	V-C	2.2505E+04	-14.20	142.0
1.000	1.000	212.3	0.000	0.000	Ug6_741_743_L_0					
73 D	43.03	2.0877E-20	144.4	71.16	144.4	71.16	V-C	2.2505E+04	-14.40	144.0
1.000	1.000	215.2	0.000	0.000	Ug6_741_743_L_0					
74 D	43.61	2.3421E-20	146.2	72.05	146.2	72.05	V-C	2.2505E+04	-14.60	146.0
1.000	1.000	218.1	0.000	0.000	Ug6_741_743_L_0					
75 D	44.19	2.5998E-20	148.0	72.94	148.0	72.94	V-C	2.2505E+04	-14.80	148.0
1.000	1.000	220.9	0.000	0.000	Ug6_741_743_L_0					
76 D	44.77	2.8571E-20	149.7	73.84	149.7	73.84	V-C	2.2505E+04	-15.00	150.0
1.000	1.000	223.8	0.000	0.000	Ug6_741_743_L_0					
77 D	45.35	3.1136E-20	151.5	74.73	151.5	74.73	V-C	2.2505E+04	-15.20	152.0
1.000	1.000	226.7	0.000	0.000	Ug6_741_743_L_0					
78 D	45.92	3.3696E-20	153.3	75.62	153.3	75.62	V-C	2.2505E+04	-15.40	154.0
1.000	1.000	229.6	0.000	0.000	Ug6_741_743_L_0					

79 D	46.50	3.6253E-20	155.1	76.51	155.1	76.51	V-C	2.2505E+04	-15.60	156.0
1.000	1.000	232.5	0.000	0.000	Ug6_741_743_L_0					
80 D	47.08	3.8808E-20	156.8	77.40	156.8	77.40	V-C	2.2505E+04	-15.80	158.0
1.000	1.000	235.4	0.000	0.000	Ug6_741_743_L_0					
81 D	23.83	4.1364E-20	158.6	78.29	158.6	78.29	V-C	2.2505E+04	-16.00	160.0
1.000	1.000	238.3	0.000	0.000	Ug6_741_743_L_0					

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|                PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*                |
|                                                                                                                                            |
|                                                                                                                                            |
|                NewProject.BaseDesignSection_28.SISMICASTR_l817                                                                                   |
|                Exe Time :24 May 2018  18:25:49                                                                                               |
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New Project

STRESS RESULTS FOR GROUP NO. 2

0\_R :  
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 81  
CURRENT TIME IS 1.0000

HARDENING 2D SOIL ELEMENT

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

EL * FACTOR	FORCE UFACOR	DISPL-Y Peq	VERTICAL-P Su_a	HORIZON.-P Su_p	MAX-V-P LAYER	MAX-H-P	STATE	STIFFNESS	Z-LEVEL	PORE	E
1 D	0.000	-2.4162E-20	0.000	0.000	0.000	0.000	V-C	2.3371E+04	0.000	0.000	
1.000	1.000	0.000	0.000	0.000	Ug5_2_8_L_0						
2 D	0.7141	-2.4777E-20	2.000	1.570	2.000	1.570	V-C	2.3371E+04	-0.2000	2.000	
1.000	1.000	3.570	0.000	0.000	Ug5_2_8_L_0						
3 D	1.411	-2.5391E-20	4.000	3.055	4.000	3.055	V-C	2.3371E+04	-0.4000	4.000	
1.000	1.000	7.055	0.000	0.000	Ug5_2_8_L_0						
4 D	2.083	-2.6003E-20	6.000	4.413	6.000	4.413	V-C	2.3371E+04	-0.6000	6.000	
1.000	1.000	10.41	0.000	0.000	Ug5_2_8_L_0						
5 D	2.730	-2.6609E-20	8.000	5.651	8.000	5.651	V-C	2.3371E+04	-0.8000	8.000	
1.000	1.000	13.65	0.000	0.000	Ug5_2_8_L_0						
6 D	3.359	-2.7206E-20	10.00	6.797	10.00	6.797	V-C	2.3371E+04	-1.000	10.00	
1.000	1.000	16.80	0.000	0.000	Ug5_2_8_L_0						
7 D	3.976	-2.7788E-20	12.00	7.879	12.00	7.879	V-C	2.3371E+04	-1.200	12.00	
1.000	1.000	19.88	0.000	0.000	Ug5_2_8_L_0						
8 D	4.584	-2.8348E-20	14.00	8.919	14.00	8.919	V-C	2.3371E+04	-1.400	14.00	
1.000	1.000	22.92	0.000	0.000	Ug5_2_8_L_0						
9 D	5.186	-2.8881E-20	16.00	9.931	16.00	9.931	V-C	2.3371E+04	-1.600	16.00	
1.000	1.000	25.93	0.000	0.000	Ug5_2_8_L_0						
10 D	5.785	-2.9375E-20	18.00	10.93	18.00	10.93	V-C	2.3371E+04	-1.800	18.00	
1.000	1.000	28.93	0.000	0.000	Ug5_2_8_L_0						
11 D	6.381	-2.9823E-20	20.00	11.91	20.00	11.91	V-C	2.3371E+04	-2.000	20.00	
1.000	1.000	31.91	0.000	0.000	Ug5_2_8_L_0						
12 D	6.976	-3.0212E-20	22.00	12.88	22.00	12.88	V-C	2.3371E+04	-2.200	22.00	
1.000	1.000	34.88	0.000	0.000	Ug5_2_8_L_0						
13 D	7.570	-3.0536E-20	24.00	13.85	24.00	13.85	V-C	2.3371E+04	-2.400	24.00	
1.000	1.000	37.85	0.000	0.000	Ug5_2_8_L_0						
14 D	8.163	-3.0786E-20	26.00	14.82	26.00	14.82	V-C	2.3371E+04	-2.600	26.00	
1.000	1.000	40.82	0.000	0.000	Ug5_2_8_L_0						
15 D	8.756	-3.0954E-20	28.00	15.78	28.00	15.78	V-C	2.3371E+04	-2.800	28.00	
1.000	1.000	43.78	0.000	0.000	Ug5_2_8_L_0						
16 D	9.349	-3.1038E-20	30.00	16.74	30.00	16.74	V-C	2.3371E+04	-3.000	30.00	
1.000	1.000	46.74	0.000	0.000	Ug5_2_8_L_0						
17 D	9.941	-3.1035E-20	32.00	17.70	32.00	17.70	V-C	2.3371E+04	-3.200	32.00	
1.000	1.000	49.70	0.000	0.000	Ug5_2_8_L_0						
18 D	10.53	-3.0944E-20	34.00	18.66	34.00	18.66	V-C	2.3371E+04	-3.400	34.00	
1.000	1.000	52.66	0.000	0.000	Ug5_2_8_L_0						
19 D	11.13	-3.0761E-20	36.00	19.63	36.00	19.63	V-C	2.3371E+04	-3.600	36.00	
1.000	1.000	55.63	0.000	0.000	Ug5_2_8_L_0						
20 D	11.72	-3.0479E-20	38.00	20.59	38.00	20.59	V-C	2.3371E+04	-3.800	38.00	
1.000	1.000	58.59	0.000	0.000	Ug5_2_8_L_0						
21 D	12.31	-3.0094E-20	40.00	21.55	40.00	21.55	V-C	2.3371E+04	-4.000	40.00	
1.000	1.000	61.55	0.000	0.000	Ug5_2_8_L_0						
22 D	12.90	-2.9610E-20	42.00	22.51	42.00	22.51	V-C	2.3371E+04	-4.200	42.00	
1.000	1.000	64.51	0.000	0.000	Ug5_2_8_L_0						
23 D	13.49	-2.9036E-20	44.00	23.47	44.00	23.47	V-C	2.3371E+04	-4.400	44.00	
1.000	1.000	67.47	0.000	0.000	Ug5_2_8_L_0						
24 D	14.09	-2.8383E-20	46.00	24.43	46.00	24.43	V-C	2.3371E+04	-4.600	46.00	
1.000	1.000	70.43	0.000	0.000	Ug5_2_8_L_0						
25 D	14.68	-2.7660E-20	48.00	25.39	48.00	25.39	V-C	2.3371E+04	-4.800	48.00	
1.000	1.000	73.39	0.000	0.000	Ug5_2_8_L_0						
26 D	15.27	-2.6876E-20	50.00	26.36	50.00	26.36	V-C	2.3371E+04	-5.000	50.00	
1.000	1.000	76.36	0.000	0.000	Ug5_2_8_L_0						
27 D	15.86	-2.6040E-20	52.00	27.32	52.00	27.32	V-C	2.3371E+04	-5.200	52.00	
1.000	1.000	79.32	0.000	0.000	Ug5_2_8_L_0						
28 D	16.46	-2.5156E-20	54.00	28.28	54.00	28.28	V-C	2.3371E+04	-5.400	54.00	
1.000	1.000	82.28	0.000	0.000	Ug5_2_8_L_0						
29 D	17.05	-2.4232E-20	56.00	29.25	56.00	29.25	V-C	2.3371E+04	-5.600	56.00	
1.000	1.000	85.25	0.000	0.000	Ug5_2_8_L_0						
30 D	17.64	-2.3274E-20	58.00	30.22	58.00	30.22	V-C	2.3371E+04	-5.800	58.00	
1.000	1.000	88.22	0.000	0.000	Ug5_2_8_L_0						
31 D	18.24	-2.2304E-20	60.00	31.18	60.00	31.18	V-C	2.3371E+04	-6.000	60.00	
1.000	1.000	91.18	0.000	0.000	Ug5_2_8_L_0						
32 D	18.83	-2.1345E-20	62.00	32.15	62.00	32.15	V-C	2.3371E+04	-6.200	62.00	
1.000	1.000	94.15	0.000	0.000	Ug5_2_8_L_0						
33 D	19.42	-2.0416E-20	64.00	33.12	64.00	33.12	V-C	2.3371E+04	-6.400	64.00	

1.000	1.000	97.12	0.000	0.000	Ug5_2_8_L_0					
34 D	20.02	-1.9521E-20	66.00	34.09	66.00	34.09	V-C	2.3371E+04	-6.600	66.00
1.000	1.000	100.1	0.000	0.000	Ug5_2_8_L_0					
35 D	20.61	-1.8661E-20	68.00	35.06	68.00	35.06	V-C	2.3371E+04	-6.800	68.00
1.000	1.000	103.1	0.000	0.000	Ug5_2_8_L_0					
36 D	21.21	-1.7835E-20	70.00	36.03	70.00	36.03	V-C	2.3371E+04	-7.000	70.00
1.000	1.000	106.0	0.000	0.000	Ug5_2_8_L_0					
37 D	21.80	-1.7042E-20	72.00	37.00	72.00	37.00	V-C	2.3371E+04	-7.200	72.00
1.000	1.000	109.0	0.000	0.000	Ug5_2_8_L_0					
38 D	22.39	-1.6281E-20	74.00	37.97	74.00	37.97	V-C	2.3371E+04	-7.400	74.00
1.000	1.000	112.0	0.000	0.000	Ug5_2_8_L_0					
39 D	22.99	-1.5549E-20	76.00	38.94	76.00	38.94	V-C	2.3371E+04	-7.600	76.00
1.000	1.000	114.9	0.000	0.000	Ug5_2_8_L_0					
40 D	23.58	-1.4839E-20	78.00	39.92	78.00	39.92	V-C	2.3371E+04	-7.800	78.00
1.000	1.000	117.9	0.000	0.000	Ug5_2_8_L_0					
41 D	24.18	-1.4135E-20	80.00	40.89	80.00	40.89	V-C	2.3371E+04	-8.000	80.00
1.000	1.000	120.9	0.000	0.000	Ug5_2_8_L_0					
42 D	24.77	-1.3428E-20	82.00	41.86	82.00	41.86	V-C	2.3371E+04	-8.200	82.00
1.000	1.000	123.9	0.000	0.000	Ug5_2_8_L_0					
43 D	25.37	-1.2714E-20	84.00	42.84	84.00	42.84	V-C	2.3371E+04	-8.400	84.00
1.000	1.000	126.8	0.000	0.000	Ug5_2_8_L_0					
44 D	25.96	-1.1987E-20	86.00	43.82	86.00	43.82	V-C	2.3371E+04	-8.600	86.00
1.000	1.000	129.8	0.000	0.000	Ug5_2_8_L_0					
45 D	26.56	-1.1242E-20	88.00	44.79	88.00	44.79	V-C	2.3371E+04	-8.800	88.00
1.000	1.000	132.8	0.000	0.000	Ug5_2_8_L_0					
46 D	27.15	-1.0475E-20	90.00	45.77	90.00	45.77	V-C	2.3371E+04	-9.000	90.00
1.000	1.000	135.8	0.000	0.000	Ug5_2_8_L_0					
47 D	27.75	-9.6966E-21	92.00	46.75	92.00	46.75	V-C	2.3371E+04	-9.200	92.00
1.000	1.000	138.7	0.000	0.000	Ug5_2_8_L_0					
48 D	28.35	-8.9200E-21	94.00	47.73	94.00	47.73	V-C	2.3371E+04	-9.400	94.00
1.000	1.000	141.7	0.000	0.000	Ug5_2_8_L_0					
49 D	28.94	-8.1574E-21	96.00	48.71	96.00	48.71	V-C	2.3371E+04	-9.600	96.00
1.000	1.000	144.7	0.000	0.000	Ug5_2_8_L_0					
50 D	29.54	-7.4213E-21	98.00	49.69	98.00	49.69	V-C	2.3371E+04	-9.800	98.00
1.000	1.000	147.7	0.000	0.000	Ug5_2_8_L_0					
51 D	30.13	-6.7233E-21	100.00	50.67	100.00	50.67	V-C	2.3371E+04	-10.00	100.00
1.000	1.000	150.7	0.000	0.000	Ug5_2_8_L_0					
52 D	30.73	-6.0750E-21	102.0	51.65	102.0	51.65	V-C	2.3371E+04	-10.20	102.0
1.000	1.000	153.6	0.000	0.000	Ug5_2_8_L_0					
53 D	31.33	-5.4877E-21	104.0	52.63	104.0	52.63	V-C	2.3371E+04	-10.40	104.0
1.000	1.000	156.6	0.000	0.000	Ug5_2_8_L_0					
54 D	31.92	-4.9720E-21	106.0	53.61	106.0	53.61	V-C	2.3371E+04	-10.60	106.0
1.000	1.000	159.6	0.000	0.000	Ug5_2_8_L_0					
55 D	32.52	-4.5386E-21	108.0	54.60	108.0	54.60	V-C	2.3371E+04	-10.80	108.0
1.000	1.000	162.6	0.000	0.000	Ug5_2_8_L_0					
56 D	33.12	-4.1976E-21	110.0	55.58	110.0	55.58	V-C	2.3371E+04	-11.00	110.0
1.000	1.000	165.6	0.000	0.000	Ug5_2_8_L_0					
57 D	33.71	-3.9590E-21	112.0	56.56	112.0	56.56	V-C	2.3371E+04	-11.20	112.0
1.000	1.000	168.6	0.000	0.000	Ug5_2_8_L_0					
58 D	34.31	-3.8323E-21	114.0	57.55	114.0	57.55	V-C	2.3371E+04	-11.40	114.0
1.000	1.000	171.5	0.000	0.000	Ug5_2_8_L_0					
59 D	34.91	-3.8269E-21	116.0	58.53	116.0	58.53	V-C	2.3371E+04	-11.60	116.0
1.000	1.000	174.5	0.000	0.000	Ug5_2_8_L_0					
60 D	35.50	-3.9516E-21	118.0	59.52	118.0	59.52	V-C	2.3371E+04	-11.80	118.0
1.000	1.000	177.5	0.000	0.000	Ug5_2_8_L_0					
61 D	36.10	-4.2151E-21	120.0	60.50	120.0	60.50	V-C	2.3371E+04	-12.00	120.0
1.000	1.000	180.5	0.000	0.000	Ug5_2_8_L_0					
62 D	36.68	-4.6256E-21	121.8	61.39	121.8	61.39	V-C	1.7574E+04	-12.20	122.0
1.000	1.000	183.4	0.000	0.000	Ug6_741_743_L_0					
63 D	37.26	-5.1912E-21	123.6	62.28	123.6	62.28	V-C	1.7574E+04	-12.40	124.0
1.000	1.000	186.3	0.000	0.000	Ug6_741_743_L_0					
64 D	37.83	-5.9194E-21	125.4	63.16	125.4	63.16	V-C	1.7574E+04	-12.60	126.0
1.000	1.000	189.2	0.000	0.000	Ug6_741_743_L_0					
65 D	38.41	-6.8179E-21	127.2	64.05	127.2	64.05	V-C	1.7574E+04	-12.80	128.0
1.000	1.000	192.1	0.000	0.000	Ug6_741_743_L_0					
66 D	38.99	-7.8937E-21	129.0	64.94	129.0	64.94	V-C	1.7574E+04	-13.00	130.0
1.000	1.000	194.9	0.000	0.000	Ug6_741_743_L_0					
67 D	39.57	-9.1538E-21	130.8	65.83	130.8	65.83	V-C	1.7574E+04	-13.20	132.0
1.000	1.000	197.8	0.000	0.000	Ug6_741_743_L_0					
68 D	40.14	-1.0605E-20	132.6	66.72	132.6	66.72	V-C	1.7574E+04	-13.40	134.0
1.000	1.000	200.7	0.000	0.000	Ug6_741_743_L_0					
69 D	40.72	-1.2254E-20	134.4	67.60	134.4	67.60	V-C	1.7574E+04	-13.60	136.0
1.000	1.000	203.6	0.000	0.000	Ug6_741_743_L_0					
70 D	41.30	-1.4106E-20	136.2	68.49	136.2	68.49	V-C	1.7574E+04	-13.80	138.0
1.000	1.000	206.5	0.000	0.000	Ug6_741_743_L_0					
71 D	41.88	-1.6167E-20	138.0	69.38	138.0	69.38	V-C	1.7574E+04	-14.00	140.0
1.000	1.000	209.4	0.000	0.000	Ug6_741_743_L_0					
72 D	42.45	-1.8436E-20	139.8	70.27	139.8	70.27	V-C	1.7574E+04	-14.20	142.0
1.000	1.000	212.3	0.000	0.000	Ug6_741_743_L_0					
73 D	43.03	-2.0877E-20	141.6	71.16	141.6	71.16	V-C	1.7574E+04	-14.40	144.0
1.000	1.000	215.2	0.000	0.000	Ug6_741_743_L_0					
74 D	43.61	-2.3421E-20	143.4	72.05	143.4	72.05	V-C	1.7574E+04	-14.60	146.0
1.000	1.000	218.1	0.000	0.000	Ug6_741_743_L_0					
75 D	44.19	-2.5998E-20	145.2	72.94	145.2	72.94	V-C	1.7574E+04	-14.80	148.0
1.000	1.000	220.9	0.000	0.000	Ug6_741_743_L_0					
76 D	44.77	-2.8571E-20	147.0	73.84	147.0	73.84	V-C	1.7574E+04	-15.00	150.0
1.000	1.000	223.8	0.000	0.000	Ug6_741_743_L_0					
77 D	45.35	-3.1136E-20	148.8	74.73	148.8	74.73	V-C	1.7574E+04	-15.20	152.0
1.000	1.000	226.7	0.000	0.000	Ug6_741_743_L_0					
78 D	45.92	-3.3696E-20	150.6	75.62	150.6	75.62	V-C	1.7574E+04	-15.40	154.0
1.000	1.000	229.6	0.000	0.000	Ug6_741_743_L_0					

79 D	46.50	-3.6253E-20	152.4	76.51	152.4	76.51	V-C	1.7574E+04	-15.60	156.0
1.000	1.000	232.5	0.000	0.000	Ug6_741_743_L_0					
80 D	47.08	-3.8808E-20	154.2	77.40	154.2	77.40	V-C	1.7574E+04	-15.80	158.0
1.000	1.000	235.4	0.000	0.000	Ug6_741_743_L_0					
81 D	23.83	-4.1364E-20	156.0	78.29	156.0	78.29	V-C	1.7574E+04	-16.00	160.0
1.000	1.000	238.3	0.000	0.000	Ug6_741_743_L_0					

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|                PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                                                                            |
|                                                                                                                                            |
|                NewProject.BaseDesignSection_28.SISMICASTR_l817  |
|                Exe Time :24 May 2018  18:25:49  |
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New Project

STRESS RESULTS FOR GROUP NO. 3

WallElement\_33 :  
ELEMENT TYPE 2 NO.OF ELEMENTS. IN THIS GROUP 80  
CURRENT TIME IS 1.0000

WALL2D ELEMENT

EL	TA	TB	MA	MB
1	1.01855E-16	-1.01855E-16	-9.97120E-28	2.03710E-17
2	3.05921E-16	-3.05921E-16	-2.03710E-17	8.15552E-17
3	5.10341E-16	-5.10341E-16	-8.15552E-17	1.83623E-16
4	7.15104E-16	-7.15104E-16	-1.83623E-16	3.26644E-16
5	9.20187E-16	-9.20187E-16	-3.26644E-16	5.10682E-16
6	1.12555E-15	-1.12555E-15	-5.10682E-16	7.35792E-16
7	1.33115E-15	-1.33115E-15	-7.35792E-16	1.00202E-15
8	1.53689E-15	-1.53689E-15	-1.00202E-15	1.30940E-15
9	1.74270E-15	-1.74270E-15	-1.30940E-15	1.65794E-15
10	1.94844E-15	-1.94844E-15	-1.65794E-15	2.04763E-15
11	1.26579E-15	-1.26579E-15	-2.04763E-15	2.30079E-15
12	1.47095E-15	-1.47095E-15	-2.30079E-15	2.59498E-15
13	1.67556E-15	-1.67556E-15	-2.59498E-15	2.93009E-15
14	1.03035E-16	-1.03035E-16	-2.93009E-15	2.95069E-15
15	3.05875E-16	-3.05875E-16	-2.95069E-15	3.01187E-15
16	5.07473E-16	-5.07473E-16	-3.01187E-15	3.11336E-15
17	7.07570E-16	-7.07570E-16	-3.11336E-15	3.25488E-15
18	9.05893E-16	-9.05893E-16	-3.25488E-15	3.43606E-15
19	1.10216E-15	-1.10216E-15	-3.43606E-15	3.65649E-15
20	-4.80275E-16	4.80275E-16	-3.65649E-15	3.56043E-15
21	-2.06534E-15	2.06534E-15	-3.56043E-15	3.14737E-15
22	-1.87698E-15	1.87698E-15	-3.14737E-15	2.77197E-15
23	-1.69184E-15	1.69184E-15	-2.77197E-15	2.43360E-15
24	-1.51018E-15	1.51018E-15	-2.43360E-15	2.13157E-15
25	-1.33229E-15	1.33229E-15	-2.13157E-15	1.86511E-15
26	-1.15843E-15	1.15843E-15	-1.86511E-15	1.63342E-15
27	-9.88823E-16	9.88823E-16	-1.63342E-15	1.43566E-15
28	-8.23710E-16	8.23710E-16	-1.43566E-15	1.27092E-15
29	-4.21600E-15	4.21600E-15	-1.27092E-15	4.27716E-16
30	-4.06046E-15	4.06046E-15	-4.27716E-16	3.84376E-16
31	-3.90995E-15	3.90995E-15	-3.84376E-16	1.16636E-15
32	-2.11898E-16	2.11898E-16	-1.16636E-15	1.20874E-15
33	-7.18352E-17	7.18352E-17	-1.20874E-15	1.22311E-15
34	6.28696E-17	-6.28696E-17	1.22311E-15	-1.21054E-15
35	1.92162E-16	-1.92162E-16	1.21054E-15	-1.17210E-15
36	3.16017E-16	-3.16017E-16	1.17210E-15	-1.10890E-15
37	4.34436E-16	-4.34436E-16	1.10890E-15	-1.02201E-15
38	5.47450E-16	-5.47450E-16	1.02201E-15	-9.12522E-16
39	4.20783E-15	-4.20783E-15	9.12522E-16	-7.09562E-17
40	7.57526E-16	-7.57526E-16	7.09562E-17	8.05489E-17
41	8.54793E-16	-8.54793E-16	-8.05489E-17	2.51508E-16
42	9.47066E-16	-9.47066E-16	-2.51508E-16	4.40921E-16
43	1.03452E-15	-1.03452E-15	-4.40921E-16	6.47825E-16
44	1.11737E-15	-1.11737E-15	-6.47825E-16	8.71297E-16
45	-2.35688E-15	2.35688E-15	-8.71297E-16	3.99922E-16
46	-2.28251E-15	2.28251E-15	-3.99922E-16	-5.65810E-17
47	-2.21196E-15	2.21196E-15	-5.65810E-17	-4.98972E-16
48	-2.14487E-15	2.14487E-15	-4.98972E-16	-9.27947E-16
49	-2.08091E-15	2.08091E-15	-9.27947E-16	-1.34413E-15
50	-2.01968E-15	2.01968E-15	-1.34413E-15	-1.74806E-15
51	-1.96075E-15	1.96075E-15	-1.74806E-15	-2.14022E-15
52	-1.90368E-15	1.90368E-15	-2.14022E-15	-2.52094E-15
53	-1.84801E-15	1.84801E-15	-2.52094E-15	-2.89054E-15
54	-1.79324E-15	1.79324E-15	-2.89054E-15	-3.24919E-15
55	-1.73886E-15	1.73886E-15	-3.24919E-15	-3.59696E-15
56	-1.68433E-15	1.68433E-15	-3.59696E-15	-3.93383E-15
57	-1.62910E-15	1.62910E-15	-3.93383E-15	-4.25965E-15
58	-1.57264E-15	1.57264E-15	-4.25965E-15	-4.57418E-15
59	-1.51436E-15	1.51436E-15	-4.57418E-15	-4.87705E-15
60	-1.45373E-15	1.45373E-15	-4.87705E-15	-5.16779E-15
61	-1.39017E-15	1.39017E-15	-5.16779E-15	-5.44583E-15
62	-1.35201E-15	1.35201E-15	-5.44583E-15	-5.71623E-15
63	-1.31157E-15	1.31157E-15	-5.71623E-15	-5.97854E-15
64	-1.26856E-15	1.26856E-15	-5.97854E-15	-6.23226E-15
65	-1.22271E-15	1.22271E-15	-6.23226E-15	-6.47680E-15
66	-1.17375E-15	1.17375E-15	-6.47680E-15	-6.71155E-15
67	-1.12143E-15	1.12143E-15	-6.71155E-15	-6.93584E-15
68	-1.06551E-15	1.06551E-15	-6.93584E-15	-7.14894E-15
69	-1.00579E-15	1.00579E-15	-7.14894E-15	-7.35010E-15



70-9.42073E-16 9.42073E-16 7.35010E-15-7.53851E-15  
71 6.23125E-15-6.23125E-15 7.53851E-15-6.29226E-15  
72 1.34089E-14-1.34089E-14 6.29226E-15-3.61048E-15  
73 1.34856E-14-1.34856E-14 3.61048E-15-9.13372E-16  
74 6.46137E-15-6.46137E-15 9.13372E-16 3.78901E-16  
75-5.58183E-16 5.58183E-16-3.78901E-16 2.67264E-16  
76-4.67589E-16 4.67589E-16-2.67264E-16 1.73747E-16  
77-3.72232E-16 3.72232E-16-1.73747E-16 9.93002E-17  
78-2.72078E-16 2.72078E-16-9.93002E-17 4.48846E-17  
79-1.67108E-16 1.67108E-16-4.48846E-17 1.14630E-17  
80-5.73122E-17 5.73122E-17-1.14630E-17 1.81754E-27

ITER 0 RNORM = 0.000 RMNORM= 0.000  
RINORM=0.1133E+06 RIMNOR=0.1597E-26  
RENORM= 302.6 REMNOR=0.6218E-52 RATIO =0.5168E-01 TOLER =0.1000E-03 NOT CONVERGED  
RFMAX = 46.57 RMMAX =0.7539E-14  
RTSMAL=0.1000E-03 RMSMAL=0.1000E-19  
RDT =0.1133E+06 RDR =0.1000E-19  
RATIOT=0.5168E-01 RATIO= 0.000  
MAX UN= 3.327 IEQ= 11 NODE 6 DOF 1 Y-DISPL.F  
MIN UN=-.1019E-15 IEQ= 1 NODE 1 DOF 1 Y-DISPL.F  
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 2 RNORM = 0.000 RMNORM= 0.000  
RINORM=0.1133E+06 RIMNOR=0.1597E-26  
RENORM= 12.00 REMNOR=0.2777E-21 RATIO =0.1029E-01 TOLER =0.1000E-03 NOT CONVERGED  
RFMAX = 46.57 RMMAX =0.7539E-14  
RTSMAL=0.1000E-03 RMSMAL=0.1000E-19  
RDT =0.1133E+06 RDR =0.1000E-19  
RATIOT=0.1029E-01 RATIO= 0.000  
MAX UN= 1.661 IEQ= 3 NODE 2 DOF 1 Y-DISPL.F  
MIN UN=-.2766E-10 IEQ= 101 NODE 51 DOF 1 Y-DISPL.F  
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 3 RNORM = 0.000 RMNORM= 0.000  
RINORM=0.1133E+06 RIMNOR=0.1597E-26  
RENORM= 8.122 REMNOR=0.8119E-21 RATIO =0.8467E-02 TOLER =0.1000E-03 NOT CONVERGED  
RFMAX = 46.57 RMMAX =0.7539E-14  
RTSMAL=0.1000E-03 RMSMAL=0.1000E-19  
RDT =0.1133E+06 RDR =0.1000E-19  
RATIOT=0.8467E-02 RATIO= 0.000  
MAX UN= 1.821 IEQ= 29 NODE 15 DOF 1 Y-DISPL.F  
MIN UN=-.1256E-09 IEQ= 21 NODE 11 DOF 1 Y-DISPL.F  
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 4 RNORM = 0.000 RMNORM= 0.000  
RINORM=0.1133E+06 RIMNOR=0.1597E-26  
RENORM=0.1593 REMNOR=0.3171E-21 RATIO =0.1186E-02 TOLER =0.1000E-03 NOT CONVERGED  
RFMAX = 46.57 RMMAX =0.7539E-14  
RTSMAL=0.1000E-03 RMSMAL=0.1000E-19  
RDT =0.1133E+06 RDR =0.1000E-19  
RATIOT=0.1186E-02 RATIO= 0.000  
MAX UN=0.3826 IEQ= 43 NODE 22 DOF 1 Y-DISPL.F  
MIN UN=-.1306E-09 IEQ= 9 NODE 5 DOF 1 Y-DISPL.F  
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 5 RNORM = 0.000 RMNORM= 0.000  
RINORM=0.1133E+06 RIMNOR=0.1597E-26  
RENORM=0.5649E-05 REMNOR=0.1304E-21 RATIO =0.7061E-05 TOLER =0.1000E-03 CONVERGED !  
RFMAX = 46.57 RMMAX =0.7539E-14  
RTSMAL=0.1000E-03 RMSMAL=0.1000E-19  
RDT =0.1133E+06 RDR =0.1000E-19  
RATIOT=0.7061E-05 RATIO= 0.000  
MAX UN=0.2377E-02 IEQ= 65 NODE 33 DOF 1 Y-DISPL.F  
MIN UN=-.7402E-10 IEQ= 11 NODE 6 DOF 1 Y-DISPL.F  
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

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|                PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
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New Project
SOLUTION REACHED USING      5 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   2   ( AT TIME  2.000   )

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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	3.3603417E-04	-6.4828788E-05	
2	3.2306842E-04	-6.4828788E-05	
3	3.1010312E-04	-6.4821809E-05	
4	2.9714156E-04	-6.4786883E-05	
5	2.8419257E-04	-6.4688990E-05	
6	2.7127343E-04	-6.4478991E-05	
7	2.5841267E-04	-6.4093590E-05	
8	2.4565005E-04	-6.3497418E-05	
9	2.3302770E-04	-6.2691200E-05	
10	2.2058739E-04	-6.1677611E-05	
11	2.0837018E-04	-6.0461110E-05	
12	1.9641607E-04	-5.9047861E-05	
13	1.8476364E-04	-5.7445597E-05	
14	1.7344980E-04	-5.5663717E-05	
15	1.6250939E-04	-5.3713318E-05	
16	1.5197486E-04	-5.1607145E-05	
17	1.4187590E-04	-4.9359639E-05	
18	1.3223929E-04	-4.6987104E-05	
19	1.2308819E-04	-4.4507704E-05	
20	1.1444199E-04	-4.1941514E-05	
21	1.0631593E-04	-3.9310643E-05	
22	9.8720477E-05	-3.6639264E-05	
23	9.1661172E-05	-3.3953706E-05	
24	8.5138036E-05	-3.1282537E-05	
25	7.9145276E-05	-2.8654586E-05	
26	7.3671627E-05	-2.6095243E-05	
27	6.8701258E-05	-2.3625078E-05	
28	6.4214598E-05	-2.1260266E-05	
29	6.0189307E-05	-1.9013124E-05	
30	5.6600914E-05	-1.6892504E-05	
31	5.3423483E-05	-1.4904224E-05	
32	5.0630203E-05	-1.3051469E-05	
33	4.8193815E-05	-1.1335136E-05	
34	4.6087118E-05	-9.7542585E-06	
35	4.4283265E-05	-8.3060776E-06	
36	4.2756138E-05	-6.9861261E-06	
37	4.1480660E-05	-5.7885802E-06	
38	4.0433012E-05	-4.7065480E-06	
39	3.9590850E-05	-3.7323882E-06	
40	3.8933409E-05	-2.8579408E-06	
41	3.8441590E-05	-2.0747404E-06	
42	3.8098005E-05	-1.3741525E-06	
43	3.7886999E-05	-7.4751132E-07	
44	3.7794640E-05	-1.8628801E-07	
45	3.7808672E-05	3.1775652E-07	
46	3.7918452E-05	7.7244676E-07	
47	3.8114846E-05	1.1850564E-06	
48	3.8390111E-05	1.5622098E-06	
49	3.8737757E-05	1.9097797E-06	
50	3.9152384E-05	2.2327960E-06	
51	3.9629511E-05	2.5353679E-06	
52	4.0165389E-05	2.8206044E-06	
53	4.0756713E-05	3.0905064E-06	
54	4.1400601E-05	3.3459933E-06	
55	4.2094127E-05	3.5867281E-06	
56	4.2834203E-05	3.8111186E-06	
57	4.3617290E-05	4.0162457E-06	
58	4.4439130E-05	4.1978099E-06	
59	4.5294461E-05	4.3500826E-06	
60	4.6176730E-05	4.4658626E-06	
61	4.7077793E-05	4.5364400E-06	
62	4.7987610E-05	4.5515692E-06	
63	4.8894766E-05	4.5118715E-06	
64	4.9789485E-05	4.4290668E-06	
65	5.0664228E-05	4.3137956E-06	
66	5.1513477E-05	4.1756306E-06	
67	5.2333522E-05	4.0230920E-06	
68	5.3122254E-05	3.8636666E-06	
69	5.3878961E-05	3.7038283E-06	
70	5.4604124E-05	3.5490604E-06	
71	5.5299224E-05	3.4038770E-06	
72	5.5966551E-05	3.2718441E-06	
73	5.6609014E-05	3.1556001E-06	

74	5.7229959E-05	3.0568734E-06
75	5.7832987E-05	2.9764983E-06
76	5.8421779E-05	2.9144290E-06
77	5.8999918E-05	2.8697502E-06
78	5.9570720E-05	2.8406863E-06
79	6.0137058E-05	2.8246070E-06
80	6.0701196E-05	2.8180317E-06
81	6.1264644E-05	2.8166319E-06

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|                PARATIEPLUS(TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION *Build date:Jul 11, 2017* |
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|                NewProject.BaseDesignSection_28.SISMICASTR_l817 |
|                Exe Time :24 May 2018                18:25:49 |
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New Project

STRESS RESULTS FOR GROUP NO. 1

0\_L  
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 81  
CURRENT TIME IS 2.0000

HARDENING 2D SOIL ELEMENT

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

EL * FACTOR	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
1 D	0.000	-3.3603E-04	0.000	0.000	0.000	0.000	ACTIVE	0.000	0.000	0.000	
1.000	1.000	0.000	0.000	0.000	Ug5_2_8_L_0						
2 D	0.4903	-3.2307E-04	2.073	0.5161	2.073	1.603	ACTIVE	0.000	-0.2000	1.935	
1.000	1.000	2.452	0.000	0.000	Ug5_2_8_L_0						
3 D	0.9826	-3.1010E-04	4.186	1.042	4.186	3.119	ACTIVE	0.000	-0.4000	3.871	
1.000	1.000	4.913	0.000	0.000	Ug5_2_8_L_0						
4 D	1.478	-2.9714E-04	6.351	1.581	6.351	4.509	ACTIVE	0.000	-0.6000	5.806	
1.000	1.000	7.388	0.000	0.000	Ug5_2_8_L_0						
5 D	1.974	-2.8419E-04	8.555	2.130	8.555	5.780	ACTIVE	0.000	-0.8000	7.742	
1.000	1.000	9.872	0.000	0.000	Ug5_2_8_L_0						
6 D	2.472	-2.7127E-04	10.78	2.683	10.78	6.958	ACTIVE	0.000	-1.0000	9.677	
1.000	1.000	12.36	0.000	0.000	Ug5_2_8_L_0						
7 D	2.970	-2.5841E-04	13.00	3.236	13.00	8.073	ACTIVE	0.000	-1.2000	11.61	
1.000	1.000	14.85	0.000	0.000	Ug5_2_8_L_0						
8 D	3.473	-2.4565E-04	15.33	3.816	15.33	9.145	ACTIVE	0.000	-1.4000	13.55	
1.000	1.000	17.36	0.000	0.000	Ug5_2_8_L_0						
9 D	3.978	-2.3303E-04	17.69	4.405	17.69	10.19	ACTIVE	0.000	-1.6000	15.48	
1.000	1.000	19.89	0.000	0.000	Ug5_2_8_L_0						
10 D	4.472	-2.2059E-04	19.84	4.941	19.84	11.22	ACTIVE	0.000	-1.8000	17.42	
1.000	1.000	22.36	0.000	0.000	Ug5_2_8_L_0						
11 D	4.973	-2.0837E-04	22.13	5.510	22.13	12.23	ACTIVE	0.000	-2.0000	19.35	
1.000	1.000	24.87	0.000	0.000	Ug5_2_8_L_0						
12 D	5.472	-1.9642E-04	24.38	6.071	24.38	13.24	ACTIVE	0.000	-2.2000	21.29	
1.000	1.000	27.36	0.000	0.000	Ug5_2_8_L_0						
13 D	5.964	-1.8476E-04	26.48	6.594	26.48	14.24	ACTIVE	0.000	-2.4000	23.23	
1.000	1.000	29.82	0.000	0.000	Ug5_2_8_L_0						
14 D	6.461	-1.7345E-04	28.70	7.145	28.70	15.24	ACTIVE	0.000	-2.6000	25.16	
1.000	1.000	32.31	0.000	0.000	Ug5_2_8_L_0						
15 D	6.958	-1.6251E-04	30.89	7.691	30.89	16.23	ACTIVE	0.000	-2.8000	27.10	
1.000	1.000	34.79	0.000	0.000	Ug5_2_8_L_0						
16 D	7.453	-1.5197E-04	33.06	8.233	33.06	17.23	ACTIVE	0.000	-3.0000	29.03	
1.000	1.000	37.27	0.000	0.000	Ug5_2_8_L_0						
17 D	7.944	-1.4188E-04	35.14	8.750	35.14	18.22	ACTIVE	0.000	-3.2000	30.97	
1.000	1.000	39.72	0.000	0.000	Ug5_2_8_L_0						
18 D	8.438	-1.3224E-04	37.30	9.287	37.30	19.21	ACTIVE	0.000	-3.4000	32.90	
1.000	1.000	42.19	0.000	0.000	Ug5_2_8_L_0						
19 D	8.932	-1.2309E-04	39.45	9.823	39.45	20.21	ACTIVE	0.000	-3.6000	34.84	
1.000	1.000	44.66	0.000	0.000	Ug5_2_8_L_0						
20 D	9.422	-1.1444E-04	41.51	10.34	41.51	21.20	ACTIVE	0.000	-3.8000	36.77	
1.000	1.000	47.11	0.000	0.000	Ug5_2_8_L_0						
21 D	9.916	-1.0632E-04	43.65	10.87	43.65	22.19	ACTIVE	0.000	-4.0000	38.71	
1.000	1.000	49.58	0.000	0.000	Ug5_2_8_L_0						
22 D	10.41	-9.8720E-05	45.78	11.40	45.78	23.18	ACTIVE	0.000	-4.2000	40.65	
1.000	1.000	52.05	0.000	0.000	Ug5_2_8_L_0						
23 D	10.90	-9.1661E-05	47.84	11.91	47.84	24.18	ACTIVE	0.000	-4.4000	42.58	
1.000	1.000	54.49	0.000	0.000	Ug5_2_8_L_0						
24 D	11.54	-8.5138E-05	49.97	13.17	49.97	25.17	UL-RL	1.4103E+05	-4.6000	44.52	
1.000	1.000	57.68	0.000	0.000	Ug5_2_8_L_0						
25 D	12.29	-7.9145E-05	52.09	15.01	52.09	26.17	UL-RL	1.4103E+05	-4.8000	46.45	
1.000	1.000	61.46	0.000	0.000	Ug5_2_8_L_0						
26 D	13.03	-7.3672E-05	54.20	16.77	54.20	27.16	UL-RL	1.4103E+05	-5.0000	48.39	
1.000	1.000	65.16	0.000	0.000	Ug5_2_8_L_0						
27 D	13.76	-6.8701E-05	56.26	18.47	56.26	28.16	UL-RL	1.4103E+05	-5.2000	50.32	
1.000	1.000	68.79	0.000	0.000	Ug5_2_8_L_0						
28 D	14.47	-6.4215E-05	58.37	20.10	58.37	29.16	UL-RL	1.4103E+05	-5.4000	52.26	
1.000	1.000	72.36	0.000	0.000	Ug5_2_8_L_0						
29 D	15.17	-6.0189E-05	60.48	21.66	60.48	30.15	UL-RL	1.4103E+05	-5.6000	54.19	
1.000	1.000	75.86	0.000	0.000	Ug5_2_8_L_0						
30 D	15.86	-5.6601E-05	62.53	23.17	62.53	31.15	UL-RL	1.4103E+05	-5.8000	56.13	
1.000	1.000	79.30	0.000	0.000	Ug5_2_8_L_0						
31 D	16.54	-5.3423E-05	64.63	24.62	64.63	32.15	UL-RL	1.4103E+05	-6.0000	58.06	
1.000	1.000	82.68	0.000	0.000	Ug5_2_8_L_0						
32 D	17.20	-5.0630E-05	66.74	26.01	66.74	33.15	UL-RL	1.4103E+05	-6.2000	60.00	
1.000	1.000	86.01	0.000	0.000	Ug5_2_8_L_0						
33 D	17.86	-4.8194E-05	68.79	27.35	68.79	34.15	UL-RL	1.4103E+05	-6.4000	61.94	

1.000	1.000	89.29	0.000	0.000	Ug5_2_8_L_0					
34 D	18.50	-4.6087E-05	70.89	28.65	70.89	35.15	UL-RL	1.4103E+05	-6.600	63.87
1.000	1.000	92.52	0.000	0.000	Ug5_2_8_L_0					
35 D	19.14	-4.4283E-05	72.98	29.91	72.98	36.15	UL-RL	1.4103E+05	-6.800	65.81
1.000	1.000	95.71	0.000	0.000	Ug5_2_8_L_0					
36 D	19.77	-4.2756E-05	75.08	31.13	75.08	37.16	UL-RL	1.4103E+05	-7.000	67.74
1.000	1.000	98.87	0.000	0.000	Ug5_2_8_L_0					
37 D	20.40	-4.1481E-05	77.13	32.31	77.13	38.16	UL-RL	1.4103E+05	-7.200	69.68
1.000	1.000	102.0	0.000	0.000	Ug5_2_8_L_0					
38 D	21.01	-4.0433E-05	79.22	33.46	79.22	39.16	UL-RL	1.4103E+05	-7.400	71.61
1.000	1.000	105.1	0.000	0.000	Ug5_2_8_L_0					
39 D	21.63	-3.9591E-05	81.32	34.58	81.32	40.17	UL-RL	1.4103E+05	-7.600	73.55
1.000	1.000	108.1	0.000	0.000	Ug5_2_8_L_0					
40 D	22.23	-3.8933E-05	83.37	35.68	83.37	41.17	UL-RL	1.4103E+05	-7.800	75.48
1.000	1.000	111.2	0.000	0.000	Ug5_2_8_L_0					
41 D	22.84	-3.8442E-05	85.46	36.76	85.46	42.18	UL-RL	1.4103E+05	-8.000	77.42
1.000	1.000	114.2	0.000	0.000	Ug5_2_8_L_0					
42 D	23.43	-3.8098E-05	87.55	37.81	87.55	43.19	UL-RL	1.4103E+05	-8.200	79.35
1.000	1.000	117.2	0.000	0.000	Ug5_2_8_L_0					
43 D	24.03	-3.7887E-05	89.60	38.85	89.60	44.19	UL-RL	1.4103E+05	-8.400	81.29
1.000	1.000	120.1	0.000	0.000	Ug5_2_8_L_0					
44 D	24.62	-3.7795E-05	91.69	39.87	91.69	45.20	UL-RL	1.4103E+05	-8.600	83.23
1.000	1.000	123.1	0.000	0.000	Ug5_2_8_L_0					
45 D	25.21	-3.7809E-05	93.77	40.88	93.77	46.21	UL-RL	1.4103E+05	-8.800	85.16
1.000	1.000	126.0	0.000	0.000	Ug5_2_8_L_0					
46 D	25.79	-3.7918E-05	95.86	41.87	95.86	47.22	UL-RL	1.4103E+05	-9.000	87.10
1.000	1.000	129.0	0.000	0.000	Ug5_2_8_L_0					
47 D	26.38	-3.8115E-05	97.91	42.86	97.91	48.23	UL-RL	1.4103E+05	-9.200	89.03
1.000	1.000	131.9	0.000	0.000	Ug5_2_8_L_0					
48 D	26.96	-3.8390E-05	100.00	43.83	100.00	49.24	UL-RL	1.4103E+05	-9.400	90.97
1.000	1.000	134.8	0.000	0.000	Ug5_2_8_L_0					
49 D	27.54	-3.8738E-05	102.1	44.79	102.1	50.26	UL-RL	1.4103E+05	-9.600	92.90
1.000	1.000	137.7	0.000	0.000	Ug5_2_8_L_0					
50 D	28.12	-3.9152E-05	104.1	45.75	104.1	51.27	UL-RL	1.4103E+05	-9.800	94.84
1.000	1.000	140.6	0.000	0.000	Ug5_2_8_L_0					
51 D	28.69	-3.9630E-05	106.2	46.69	106.2	52.28	UL-RL	1.4103E+05	-10.000	96.77
1.000	1.000	143.5	0.000	0.000	Ug5_2_8_L_0					
52 D	29.27	-4.0165E-05	108.3	47.63	108.3	53.29	UL-RL	1.4103E+05	-10.200	98.71
1.000	1.000	146.3	0.000	0.000	Ug5_2_8_L_0					
53 D	29.84	-4.0757E-05	110.3	48.56	110.3	54.31	UL-RL	1.4103E+05	-10.400	100.6
1.000	1.000	149.2	0.000	0.000	Ug5_2_8_L_0					
54 D	30.41	-4.1401E-05	112.4	49.48	112.4	55.32	UL-RL	1.4103E+05	-10.600	102.6
1.000	1.000	152.1	0.000	0.000	Ug5_2_8_L_0					
55 D	30.98	-4.2094E-05	114.5	50.40	114.5	56.34	UL-RL	1.4103E+05	-10.800	104.5
1.000	1.000	154.9	0.000	0.000	Ug5_2_8_L_0					
56 D	31.55	-4.2834E-05	116.6	51.31	116.6	57.35	UL-RL	1.4103E+05	-11.000	106.5
1.000	1.000	157.8	0.000	0.000	Ug5_2_8_L_0					
57 D	32.12	-4.3617E-05	118.6	52.22	118.6	58.37	UL-RL	1.4103E+05	-11.200	108.4
1.000	1.000	160.6	0.000	0.000	Ug5_2_8_L_0					
58 D	32.69	-4.4439E-05	120.7	53.12	120.7	59.39	UL-RL	1.4103E+05	-11.400	110.3
1.000	1.000	163.4	0.000	0.000	Ug5_2_8_L_0					
59 D	33.25	-4.5294E-05	122.8	54.02	122.8	60.40	UL-RL	1.4103E+05	-11.600	112.3
1.000	1.000	166.3	0.000	0.000	Ug5_2_8_L_0					
60 D	33.82	-4.6177E-05	124.9	54.91	124.9	61.42	UL-RL	1.4103E+05	-11.800	114.2
1.000	1.000	169.1	0.000	0.000	Ug5_2_8_L_0					
61 D	34.39	-4.7078E-05	126.9	55.80	126.9	62.44	UL-RL	1.4103E+05	-12.000	116.1
1.000	1.000	171.9	0.000	0.000	Ug5_2_8_L_0					
62 D	35.64	-4.7988E-05	128.8	60.12	128.8	63.36	UL-RL	6.7514E+04	-12.200	118.1
1.000	1.000	178.2	0.000	0.000	Ug6_741_743_L_0					
63 D	36.19	-4.8895E-05	130.7	60.97	130.7	64.28	UL-RL	6.7514E+04	-12.400	120.0
1.000	1.000	181.0	0.000	0.000	Ug6_741_743_L_0					
64 D	36.75	-4.9789E-05	132.5	61.83	132.5	65.20	UL-RL	6.7514E+04	-12.600	121.9
1.000	1.000	183.8	0.000	0.000	Ug6_741_743_L_0					
65 D	37.31	-5.0664E-05	134.4	62.69	134.4	66.12	UL-RL	6.7514E+04	-12.800	123.9
1.000	1.000	186.6	0.000	0.000	Ug6_741_743_L_0					
66 D	37.87	-5.1513E-05	136.2	63.56	136.2	67.04	UL-RL	6.7514E+04	-13.000	125.8
1.000	1.000	189.4	0.000	0.000	Ug6_741_743_L_0					
67 D	38.43	-5.2334E-05	138.1	64.42	138.1	67.96	UL-RL	6.7514E+04	-13.200	127.7
1.000	1.000	192.2	0.000	0.000	Ug6_741_743_L_0					
68 D	38.99	-5.3122E-05	139.9	65.29	139.9	68.88	UL-RL	6.7514E+04	-13.400	129.7
1.000	1.000	195.0	0.000	0.000	Ug6_741_743_L_0					
69 D	39.55	-5.3879E-05	141.7	66.16	141.7	69.80	UL-RL	6.7514E+04	-13.600	131.6
1.000	1.000	197.8	0.000	0.000	Ug6_741_743_L_0					
70 D	40.12	-5.4604E-05	143.6	67.03	143.6	70.72	UL-RL	6.7514E+04	-13.800	133.5
1.000	1.000	200.6	0.000	0.000	Ug6_741_743_L_0					
71 D	40.68	-5.5299E-05	145.4	67.91	145.4	71.64	UL-RL	6.7514E+04	-14.000	135.5
1.000	1.000	203.4	0.000	0.000	Ug6_741_743_L_0					
72 D	41.24	-5.5967E-05	147.2	68.78	147.2	72.56	UL-RL	6.7514E+04	-14.200	137.4
1.000	1.000	206.2	0.000	0.000	Ug6_741_743_L_0					
73 D	41.80	-5.6609E-05	149.1	69.66	149.1	73.49	UL-RL	6.7514E+04	-14.400	139.4
1.000	1.000	209.0	0.000	0.000	Ug6_741_743_L_0					
74 D	42.37	-5.7230E-05	150.9	70.54	150.9	74.41	UL-RL	6.7514E+04	-14.600	141.3
1.000	1.000	211.8	0.000	0.000	Ug6_741_743_L_0					
75 D	42.93	-5.7833E-05	152.7	71.43	152.7	75.33	UL-RL	6.7514E+04	-14.800	143.2
1.000	1.000	214.7	0.000	0.000	Ug6_741_743_L_0					
76 D	43.49	-5.8422E-05	154.6	72.31	154.6	76.25	UL-RL	6.7514E+04	-15.000	145.2
1.000	1.000	217.5	0.000	0.000	Ug6_741_743_L_0					
77 D	44.06	-5.9000E-05	156.4	73.20	156.4	77.18	UL-RL	6.7514E+04	-15.200	147.1
1.000	1.000	220.3	0.000	0.000	Ug6_741_743_L_0					
78 D	44.62	-5.9571E-05	158.3	74.08	158.3	78.10	UL-RL	6.7514E+04	-15.400	149.0
1.000	1.000	223.1	0.000	0.000	Ug6_741_743_L_0					

79 D	45.19	-6.0137E-05	160.1	74.97	160.1	79.03	UL-RL	6.7514E+04	-15.60	151.0
1.000	1.000	225.9	0.000	0.000	Ug6_741_743_L_0					
80 D	45.75	-6.0701E-05	161.9	75.85	161.9	79.95	UL-RL	6.7514E+04	-15.80	152.9
1.000	1.000	228.8	0.000	0.000	Ug6_741_743_L_0					
81 D	23.16	-6.1265E-05	163.8	76.74	163.8	80.88	UL-RL	6.7514E+04	-16.00	154.8
1.000	1.000	231.6	0.000	0.000	Ug6_741_743_L_0					

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|                PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
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New Project

STRESS RESULTS FOR GROUP NO. 2

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ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 81
CURRENT TIME IS 2.0000

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HARDENING 2D SOIL ELEMENT

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

EL *	FORCE	DISPL-Y	VERTICAL-P	HORIZON.-P	MAX-V-P	MAX-H-P	STATE	STIFFNESS	Z-LEVEL	PORE	E
FACTOR	UFACTOR	Peq	Su_a	Su_p	LAYER						
1	0.000	--	--	--	--	--	REMOVED	--	0.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
2	0.000	--	--	--	--	--	REMOVED	--	-0.2000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
3	0.000	--	--	--	--	--	REMOVED	--	-0.4000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
4	0.000	--	--	--	--	--	REMOVED	--	-0.6000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
5	0.000	--	--	--	--	--	REMOVED	--	-0.8000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
6 D	0.000	2.7127E-04	0.000	0.000	10.00	6.797	PASSIVE	0.000	-1.000	0.000	
1.000	1.000	0.000	0.000	0.000	Ug5_2_8_L_0						
7 D	2.957	2.5841E-04	1.935	12.72	12.00	12.72	V-C	2.3371E+04	-1.200	2.065	
1.000	1.000	14.79	0.000	0.000	Ug5_2_8_L_0						
8 D	3.537	2.4565E-04	3.871	13.55	14.00	13.55	V-C	2.3371E+04	-1.400	4.129	
1.000	1.000	17.68	0.000	0.000	Ug5_2_8_L_0						
9 D	4.102	2.3303E-04	5.806	14.32	16.00	14.32	V-C	2.3371E+04	-1.600	6.194	
1.000	1.000	20.51	0.000	0.000	Ug5_2_8_L_0						
10 D	4.661	2.2059E-04	7.742	15.05	18.00	15.05	V-C	2.3371E+04	-1.800	8.258	
1.000	1.000	23.31	0.000	0.000	Ug5_2_8_L_0						
11 D	5.217	2.0837E-04	9.677	15.76	20.00	15.76	V-C	2.3371E+04	-2.000	10.32	
1.000	1.000	26.09	0.000	0.000	Ug5_2_8_L_0						
12 D	5.771	1.9642E-04	11.61	16.47	22.00	16.47	V-C	2.3371E+04	-2.200	12.39	
1.000	1.000	28.86	0.000	0.000	Ug5_2_8_L_0						
13 D	6.325	1.8476E-04	13.55	17.17	24.00	17.17	V-C	2.3371E+04	-2.400	14.45	
1.000	1.000	31.63	0.000	0.000	Ug5_2_8_L_0						
14 D	6.880	1.7345E-04	15.48	17.88	26.00	17.88	V-C	2.3371E+04	-2.600	16.52	
1.000	1.000	34.40	0.000	0.000	Ug5_2_8_L_0						
15 D	7.435	1.6251E-04	17.42	18.59	28.00	18.59	V-C	2.3371E+04	-2.800	18.58	
1.000	1.000	37.17	0.000	0.000	Ug5_2_8_L_0						
16 D	7.991	1.5197E-04	19.35	19.31	30.00	19.31	V-C	2.3371E+04	-3.000	20.65	
1.000	1.000	39.96	0.000	0.000	Ug5_2_8_L_0						
17 D	8.549	1.4188E-04	21.29	20.04	32.00	20.04	V-C	2.3371E+04	-3.200	22.71	
1.000	1.000	42.75	0.000	0.000	Ug5_2_8_L_0						
18 D	9.109	1.3224E-04	23.23	20.77	34.00	20.77	V-C	2.3371E+04	-3.400	24.77	
1.000	1.000	45.55	0.000	0.000	Ug5_2_8_L_0						
19 D	9.671	1.2309E-04	25.16	21.52	36.00	21.52	V-C	2.3371E+04	-3.600	26.84	
1.000	1.000	48.36	0.000	0.000	Ug5_2_8_L_0						
20 D	10.24	1.1444E-04	27.10	22.27	38.00	22.27	V-C	2.3371E+04	-3.800	28.90	
1.000	1.000	51.18	0.000	0.000	Ug5_2_8_L_0						
21 D	10.80	1.0632E-04	29.03	23.04	40.00	23.04	V-C	2.3371E+04	-4.000	30.97	
1.000	1.000	54.01	0.000	0.000	Ug5_2_8_L_0						
22 D	11.37	9.8720E-05	30.97	23.83	42.00	23.83	V-C	2.3371E+04	-4.200	33.03	
1.000	1.000	56.86	0.000	0.000	Ug5_2_8_L_0						
23 D	11.94	9.1661E-05	32.90	24.62	44.00	24.62	V-C	2.3371E+04	-4.400	35.10	
1.000	1.000	59.72	0.000	0.000	Ug5_2_8_L_0						
24 D	12.52	8.5138E-05	34.84	25.43	46.00	25.43	V-C	2.3371E+04	-4.600	37.16	
1.000	1.000	62.59	0.000	0.000	Ug5_2_8_L_0						
25 D	13.09	7.9145E-05	36.77	26.25	48.00	26.25	V-C	2.3371E+04	-4.800	39.23	
1.000	1.000	65.47	0.000	0.000	Ug5_2_8_L_0						
26 D	13.67	7.3672E-05	38.71	27.08	50.00	27.08	V-C	2.3371E+04	-5.000	41.29	
1.000	1.000	68.37	0.000	0.000	Ug5_2_8_L_0						
27 D	14.26	6.8701E-05	40.65	27.92	52.00	27.92	V-C	2.3371E+04	-5.200	43.35	
1.000	1.000	71.28	0.000	0.000	Ug5_2_8_L_0						
28 D	14.84	6.4215E-05	42.58	28.78	54.00	28.78	V-C	2.3371E+04	-5.400	45.42	
1.000	1.000	74.20	0.000	0.000	Ug5_2_8_L_0						
29 D	15.43	6.0189E-05	44.52	29.64	56.00	29.64	V-C	2.3371E+04	-5.600	47.48	
1.000	1.000	77.13	0.000	0.000	Ug5_2_8_L_0						
30 D	16.01	5.6601E-05	46.45	30.52	58.00	30.52	V-C	2.3371E+04	-5.800	49.55	
1.000	1.000	80.07	0.000	0.000	Ug5_2_8_L_0						
31 D	16.60	5.3423E-05	48.39	31.41	60.00	31.41	V-C	2.3371E+04	-6.000	51.61	
1.000	1.000	83.02	0.000	0.000	Ug5_2_8_L_0						
32 D	17.20	5.0630E-05	50.32	32.31	62.00	32.31	V-C	2.3371E+04	-6.200	53.68	
1.000	1.000	85.99	0.000	0.000	Ug5_2_8_L_0						
33 D	17.79	4.8194E-05	52.26	33.22	64.00	33.22	V-C	2.3371E+04	-6.400	55.74	

1.000	1.000	88.96	0.000	0.000	Ug5_2_8_L_0					
34 D	18.37	4.6087E-05	54.19	34.07	66.00	34.16	UL-RL	7.0113E+04	-6.600	57.81
1.000	1.000	91.87	0.000	0.000	Ug5_2_8_L_0					
35 D	18.96	4.4283E-05	56.13	34.92	68.00	35.12	UL-RL	7.0113E+04	-6.800	59.87
1.000	1.000	94.80	0.000	0.000	Ug5_2_8_L_0					
36 D	19.55	4.2756E-05	58.06	35.80	70.00	36.08	UL-RL	7.0113E+04	-7.000	61.94
1.000	1.000	97.74	0.000	0.000	Ug5_2_8_L_0					
37 D	20.14	4.1481E-05	60.00	36.70	72.00	37.03	UL-RL	7.0113E+04	-7.200	64.00
1.000	1.000	100.7	0.000	0.000	Ug5_2_8_L_0					
38 D	20.74	4.0433E-05	61.94	37.61	74.00	37.99	UL-RL	7.0113E+04	-7.400	66.06
1.000	1.000	103.7	0.000	0.000	Ug5_2_8_L_0					
39 D	21.33	3.9591E-05	63.87	38.54	76.00	38.95	UL-RL	7.0113E+04	-7.600	68.13
1.000	1.000	106.7	0.000	0.000	Ug5_2_8_L_0					
40 D	21.93	3.8933E-05	65.81	39.47	78.00	39.92	UL-RL	7.0113E+04	-7.800	70.19
1.000	1.000	109.7	0.000	0.000	Ug5_2_8_L_0					
41 D	22.53	3.8442E-05	67.74	40.39	80.00	40.89	UL-RL	7.0113E+04	-8.000	72.26
1.000	1.000	112.7	0.000	0.000	Ug5_2_8_L_0					
42 D	23.13	3.8098E-05	69.68	41.33	82.00	41.86	UL-RL	7.0113E+04	-8.200	74.32
1.000	1.000	115.7	0.000	0.000	Ug5_2_8_L_0					
43 D	23.73	3.7887E-05	71.61	42.28	84.00	42.84	UL-RL	7.0113E+04	-8.400	76.39
1.000	1.000	118.7	0.000	0.000	Ug5_2_8_L_0					
44 D	24.34	3.7795E-05	73.55	43.23	86.00	43.82	UL-RL	7.0113E+04	-8.600	78.45
1.000	1.000	121.7	0.000	0.000	Ug5_2_8_L_0					
45 D	24.94	3.7809E-05	75.48	44.19	88.00	44.79	UL-RL	7.0113E+04	-8.800	80.52
1.000	1.000	124.7	0.000	0.000	Ug5_2_8_L_0					
46 D	25.55	3.7918E-05	77.42	45.17	90.00	45.77	UL-RL	7.0113E+04	-9.000	82.58
1.000	1.000	127.7	0.000	0.000	Ug5_2_8_L_0					
47 D	26.16	3.8115E-05	79.35	46.14	92.00	46.75	UL-RL	7.0113E+04	-9.200	84.65
1.000	1.000	130.8	0.000	0.000	Ug5_2_8_L_0					
48 D	26.77	3.8390E-05	81.29	47.13	94.00	47.73	UL-RL	7.0113E+04	-9.400	86.71
1.000	1.000	133.8	0.000	0.000	Ug5_2_8_L_0					
49 D	27.38	3.8738E-05	83.23	48.12	96.00	48.71	UL-RL	7.0113E+04	-9.600	88.77
1.000	1.000	136.9	0.000	0.000	Ug5_2_8_L_0					
50 D	27.99	3.9152E-05	85.16	49.11	98.00	49.69	UL-RL	7.0113E+04	-9.800	90.84
1.000	1.000	139.9	0.000	0.000	Ug5_2_8_L_0					
51 D	28.60	3.9630E-05	87.10	50.11	100.00	50.67	UL-RL	7.0113E+04	-10.000	92.90
1.000	1.000	143.0	0.000	0.000	Ug5_2_8_L_0					
52 D	29.22	4.0165E-05	89.03	51.11	102.0	51.65	UL-RL	7.0113E+04	-10.200	94.97
1.000	1.000	146.1	0.000	0.000	Ug5_2_8_L_0					
53 D	29.83	4.0757E-05	90.97	52.12	104.0	52.63	UL-RL	7.0113E+04	-10.400	97.03
1.000	1.000	149.2	0.000	0.000	Ug5_2_8_L_0					
54 D	30.45	4.1401E-05	92.90	53.13	106.0	53.61	UL-RL	7.0113E+04	-10.600	99.10
1.000	1.000	152.2	0.000	0.000	Ug5_2_8_L_0					
55 D	31.06	4.2094E-05	94.84	54.15	108.0	54.60	UL-RL	7.0113E+04	-10.800	101.2
1.000	1.000	155.3	0.000	0.000	Ug5_2_8_L_0					
56 D	31.68	4.2834E-05	96.77	55.17	110.0	55.58	UL-RL	7.0113E+04	-11.000	103.2
1.000	1.000	158.4	0.000	0.000	Ug5_2_8_L_0					
57 D	32.30	4.3617E-05	98.71	56.19	112.0	56.56	UL-RL	7.0113E+04	-11.200	105.3
1.000	1.000	161.5	0.000	0.000	Ug5_2_8_L_0					
58 D	32.92	4.4439E-05	100.6	57.22	114.0	57.55	UL-RL	7.0113E+04	-11.400	107.4
1.000	1.000	164.6	0.000	0.000	Ug5_2_8_L_0					
59 D	33.53	4.5294E-05	102.6	58.25	116.0	58.53	UL-RL	7.0113E+04	-11.600	109.4
1.000	1.000	167.7	0.000	0.000	Ug5_2_8_L_0					
60 D	34.15	4.6177E-05	104.5	59.28	118.0	59.52	UL-RL	7.0113E+04	-11.800	111.5
1.000	1.000	170.8	0.000	0.000	Ug5_2_8_L_0					
61 D	34.77	4.7078E-05	106.5	60.32	120.0	60.50	UL-RL	7.0113E+04	-12.000	113.5
1.000	1.000	173.9	0.000	0.000	Ug5_2_8_L_0					
62 D	35.21	4.7988E-05	108.2	60.42	121.8	61.39	UL-RL	5.2723E+04	-12.200	115.6
1.000	1.000	176.0	0.000	0.000	Ug6_741_743_L_0					
63 D	35.80	4.8895E-05	109.9	61.33	123.6	62.28	UL-RL	5.2723E+04	-12.400	117.7
1.000	1.000	179.0	0.000	0.000	Ug6_741_743_L_0					
64 D	36.40	4.9789E-05	111.7	62.25	125.4	63.16	UL-RL	5.2723E+04	-12.600	119.7
1.000	1.000	182.0	0.000	0.000	Ug6_741_743_L_0					
65 D	37.00	5.0664E-05	113.4	63.17	127.2	64.05	UL-RL	5.2723E+04	-12.800	121.8
1.000	1.000	185.0	0.000	0.000	Ug6_741_743_L_0					
66 D	37.59	5.1513E-05	115.1	64.09	129.0	64.94	UL-RL	5.2723E+04	-13.000	123.9
1.000	1.000	188.0	0.000	0.000	Ug6_741_743_L_0					
67 D	38.19	5.2334E-05	116.9	65.00	130.8	65.83	UL-RL	5.2723E+04	-13.200	125.9
1.000	1.000	190.9	0.000	0.000	Ug6_741_743_L_0					
68 D	38.78	5.3122E-05	118.6	65.92	132.6	66.72	UL-RL	5.2723E+04	-13.400	128.0
1.000	1.000	193.9	0.000	0.000	Ug6_741_743_L_0					
69 D	39.38	5.3879E-05	120.3	66.83	134.4	67.60	UL-RL	5.2723E+04	-13.600	130.1
1.000	1.000	196.9	0.000	0.000	Ug6_741_743_L_0					
70 D	39.97	5.4604E-05	122.1	67.74	136.2	68.49	UL-RL	5.2723E+04	-13.800	132.1
1.000	1.000	199.9	0.000	0.000	Ug6_741_743_L_0					
71 D	40.57	5.5299E-05	123.8	68.65	138.0	69.38	UL-RL	5.2723E+04	-14.000	134.2
1.000	1.000	202.8	0.000	0.000	Ug6_741_743_L_0					
72 D	41.16	5.5967E-05	125.5	69.56	139.8	70.27	UL-RL	5.2723E+04	-14.200	136.3
1.000	1.000	205.8	0.000	0.000	Ug6_741_743_L_0					
73 D	41.76	5.6609E-05	127.3	70.47	141.6	71.16	UL-RL	5.2723E+04	-14.400	138.3
1.000	1.000	208.8	0.000	0.000	Ug6_741_743_L_0					
74 D	42.35	5.7230E-05	129.0	71.38	143.4	72.05	UL-RL	5.2723E+04	-14.600	140.4
1.000	1.000	211.8	0.000	0.000	Ug6_741_743_L_0					
75 D	42.95	5.7833E-05	130.7	72.29	145.2	72.94	UL-RL	5.2723E+04	-14.800	142.5
1.000	1.000	214.7	0.000	0.000	Ug6_741_743_L_0					
76 D	43.54	5.8422E-05	132.5	73.19	147.0	73.84	UL-RL	5.2723E+04	-15.000	144.5
1.000	1.000	217.7	0.000	0.000	Ug6_741_743_L_0					
77 D	44.14	5.9000E-05	134.2	74.10	148.8	74.73	UL-RL	5.2723E+04	-15.200	146.6
1.000	1.000	220.7	0.000	0.000	Ug6_741_743_L_0					
78 D	44.73	5.9571E-05	136.0	75.00	150.6	75.62	UL-RL	5.2723E+04	-15.400	148.6
1.000	1.000	223.6	0.000	0.000	Ug6_741_743_L_0					



79 D	45.32	6.0137E-05	137.7	75.91	152.4	76.51	UL-RL	5.2723E+04	-15.60	150.7
1.000	1.000	226.6	0.000	0.000	Ug6_741_743_L_0					
80 D	45.92	6.0701E-05	139.4	76.82	154.2	77.40	UL-RL	5.2723E+04	-15.80	152.8
1.000	1.000	229.6	0.000	0.000	Ug6_741_743_L_0					
81 D	23.26	6.1265E-05	141.2	77.72	156.0	78.29	UL-RL	5.2723E+04	-16.00	154.8
1.000	1.000	232.6	0.000	0.000	Ug6_741_743_L_0					

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|                PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
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New Project

STRESS RESULTS FOR GROUP NO. 3

WallElement\_33 :  
ELEMENT TYPE 2 NO.OF ELEMENTS. IN THIS GROUP 80  
CURRENT TIME IS 2.0000

WALL2D ELEMENT

EL	TA	TB	MA	MB
1	2.23893E-11	-2.23893E-11	2.25064E-12	1.20439E-12
2	0.49031	-0.49031	-2.30307E-12	9.80625E-02
3	1.4730	-1.4730	-9.80625E-02	0.39265
4	2.9505	-2.9505	-0.39265	0.98276
5	4.9250	-4.9250	-0.98276	1.9678
6	7.3971	-7.3971	-1.9678	3.4472
7	7.4097	-7.4097	-3.4472	4.9291
8	7.3461	-7.3461	-4.9291	6.3984
9	7.2219	-7.2219	-6.3984	7.8427
10	7.0329	-7.0329	-7.8427	9.2493
11	6.7888	-6.7888	-9.2493	10.607
12	6.4897	-6.4897	-10.607	11.905
13	6.1285	-6.1285	-11.905	13.131
14	5.7102	-5.7102	-13.131	14.273
15	5.2330	-5.2330	-14.273	15.319
16	4.6950	-4.6950	-15.319	16.258
17	4.0892	-4.0892	-16.258	17.076
18	3.4181	-3.4181	-17.076	17.760
19	2.6791	-2.6791	-17.760	18.296
20	1.8657	-1.8657	-18.296	18.669
21	0.97920	-0.97920	-18.669	18.865
22	1.68070E-02	-1.68070E-02	-18.865	18.868
23	-1.0276	1.0276	-18.868	18.662
24	-2.0086	2.0086	-18.662	18.261
25	-2.8113	2.8113	-18.261	17.698
26	-3.4527	3.4527	-17.698	17.008
27	-3.9493	3.9493	-17.008	16.218
28	-4.3171	4.3171	-16.218	15.355
29	-4.5712	4.5712	-15.355	14.440
30	-4.7258	4.7258	-14.440	13.495
31	-4.7945	4.7945	-13.495	12.536
32	-4.7899	4.7899	-12.536	11.578
33	-4.7261	4.7261	-11.578	10.633
34	-4.5960	4.5960	-10.633	9.7140
35	-4.4123	4.4123	-9.7140	8.8316
36	-4.1864	4.1864	-8.8316	7.9943
37	-3.9289	3.9289	-7.9943	7.2085
38	-3.6492	3.6492	-7.2085	6.4786
39	-3.3557	3.3557	-6.4786	5.8075
40	-3.0545	3.0545	-5.8075	5.1966
41	-2.7491	2.7491	-5.1966	4.6468
42	-2.4457	2.4457	-4.6468	4.1576
43	-2.1499	2.1499	-4.1576	3.7277
44	-1.8668	1.8668	-3.7277	3.3543
45	-1.6006	1.6006	-3.3543	3.0342
46	-1.3556	1.3556	-3.0342	2.7631
47	-1.1353	1.1353	-2.7631	2.5360
48	-0.94300	0.94300	-2.5360	2.3474
49	-0.78181	0.78181	-2.3474	2.1910
50	-0.65454	0.65454	-2.1910	2.0601
51	-0.56379	0.56379	-2.0601	1.9474
52	-0.51204	0.51204	-1.9474	1.8450
53	-0.50161	0.50161	-1.8450	1.7447
54	-0.53473	0.53473	-1.7447	1.6377
55	-0.61347	0.61347	-1.6377	1.5150
56	-0.73980	0.73980	-1.5150	1.3671
57	-0.91551	0.91551	-1.3671	1.1840
58	-1.1422	1.1422	-1.1840	0.95551
59	-1.4214	1.4214	-0.95551	0.67122
60	-1.7541	1.7541	-0.67122	0.32040
61	-2.1412	2.1412	-0.32040	-0.10783
62	-1.7105	1.7105	0.10783	-0.44993
63	-1.3178	1.3178	0.44993	-0.71349
64	-0.96296	0.96296	0.71349	-0.90609
65	-0.64535	0.64535	0.90609	-1.0352
66	-0.36440	0.36440	1.0352	-1.1080
67	-0.11940	0.11940	1.1080	-1.1319
68	9.04039E-02	-9.04039E-02	1.1319	-1.1138
69	0.26579	-0.26579	1.1138	-1.0607

70 0.40752 -0.40752 1.0607 -0.97918  
 71 0.51632 -0.51632 0.97918 -0.87591  
 72 0.59286 -0.59286 0.87591 -0.75734  
 73 0.63774 -0.63774 0.75734 -0.62979  
 74 0.65148 -0.65148 0.62979 -0.49949  
 75 0.63452 -0.63452 0.49949 -0.37259  
 76 0.58719 -0.58719 0.37259 -0.25515  
 77 0.50976 -0.50976 0.25515 -0.15320  
 78 0.40241 -0.40241 0.15320 -7.27173E-02  
 79 0.26525 -0.26525 7.27173E-02-1.96671E-02  
 80 9.83304E-02-9.83304E-02 1.96671E-02-1.32638E-12

ITER 0 RNORM = 0.000 RMNORM= 0.000  
 RINORM=0.1045E+06 RIMNOR=0.1292E+05  
 RENORM= 367.3 REMNOR=0.1304E-21 RATIO =0.5929E-01 TOLER =0.1000E-03 NOT CONVERGED  
 RFMAX = 45.21 RMMAX = 18.87  
 RTSMAL=0.1000E-03 RMSMAL=0.1000E-03  
 RDT =0.1045E+06 RDR =0.1292E+05  
 RATIOI=0.5929E-01 RATIOOR= 0.000  
 MAX UN= 5.148 IEQ= 21 NODE 11 DOF 1 Y-DISPL.F  
 MIN UN=-.3441E-01 IEQ= 11 NODE 6 DOF 1 Y-DISPL.F  
 NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 2 RNORM = 0.000 RMNORM= 0.000  
 RINORM=0.1045E+06 RIMNOR=0.1292E+05  
 RENORM= 83.97 REMNOR=0.1582E-20 RATIO =0.2835E-01 TOLER =0.1000E-03 NOT CONVERGED  
 RFMAX = 45.21 RMMAX = 18.87  
 RTSMAL=0.1000E-03 RMSMAL=0.1000E-03  
 RDT =0.1045E+06 RDR =0.1292E+05  
 RATIOI=0.2835E-01 RATIOOR= 0.000  
 MAX UN= 2.654 IEQ= 23 NODE 12 DOF 1 Y-DISPL.F  
 MIN UN=-.3455E-02 IEQ= 3 NODE 2 DOF 1 Y-DISPL.F  
 NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 3 RNORM = 0.000 RMNORM= 0.000  
 RINORM=0.1045E+06 RIMNOR=0.1292E+05  
 RENORM= 55.84 REMNOR=0.3330E-19 RATIO =0.2312E-01 TOLER =0.1000E-03 NOT CONVERGED  
 RFMAX = 45.21 RMMAX = 18.87  
 RTSMAL=0.1000E-03 RMSMAL=0.1000E-03  
 RDT =0.1045E+06 RDR =0.1292E+05  
 RATIOI=0.2312E-01 RATIOOR= 0.000  
 MAX UN= 4.539 IEQ= 59 NODE 30 DOF 1 Y-DISPL.F  
 MIN UN=-.1222E-08 IEQ= 19 NODE 10 DOF 1 Y-DISPL.F  
 NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 4 RNORM = 0.000 RMNORM= 0.000  
 RINORM=0.1045E+06 RIMNOR=0.1292E+05  
 RENORM= 1.837 REMNOR=0.9476E-20 RATIO =0.4193E-02 TOLER =0.1000E-03 NOT CONVERGED  
 RFMAX = 45.21 RMMAX = 18.87  
 RTSMAL=0.1000E-03 RMSMAL=0.1000E-03  
 RDT =0.1045E+06 RDR =0.1292E+05  
 RATIOI=0.4193E-02 RATIOOR= 0.000  
 MAX UN= 1.168 IEQ= 73 NODE 37 DOF 1 Y-DISPL.F  
 MIN UN=-.3879E-09 IEQ= 3 NODE 2 DOF 1 Y-DISPL.F  
 NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 5 RNORM = 0.000 RMNORM= 0.000  
 RINORM=0.1045E+06 RIMNOR=0.1292E+05  
 RENORM=0.3424E-17 REMNOR=0.1057E-19 RATIO =0.5725E-11 TOLER =0.1000E-03 CONVERGED !  
 RFMAX = 45.21 RMMAX = 18.87  
 RTSMAL=0.1000E-03 RMSMAL=0.1000E-03  
 RDT =0.1045E+06 RDR =0.1292E+05  
 RATIOI=0.5725E-11 RATIOOR= 0.000  
 MAX UN=0.7462E-09 IEQ= 13 NODE 7 DOF 1 Y-DISPL.F  
 MIN UN=-.6707E-09 IEQ= 15 NODE 8 DOF 1 Y-DISPL.F  
 NO. OF CONTACT CONSTRAINT VIOLATIONS 0

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
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New Project
SOLUTION REACHED USING      5 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   3   ( AT TIME   3.000   )

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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	2.1251918E-03	-3.3729961E-04	
2	2.0577319E-03	-3.3729961E-04	
3	1.9902724E-03	-3.3729278E-04	
4	1.9228166E-03	-3.3725859E-04	
5	1.8553731E-03	-3.3716276E-04	
6	1.7879588E-03	-3.3695717E-04	
7	1.7206016E-03	-3.3657987E-04	
8	1.6533433E-03	-3.3595499E-04	
9	1.5862421E-03	-3.3499274E-04	
10	1.5193757E-03	-3.3358927E-04	
11	1.4528437E-03	-3.3162680E-04	
12	1.3867710E-03	-3.2897368E-04	
13	1.3213072E-03	-3.2552618E-04	
14	1.2566157E-03	-3.2125056E-04	
15	1.1928599E-03	-3.1618036E-04	
16	1.1301923E-03	-3.1037998E-04	
17	1.0687522E-03	-3.0391091E-04	
18	1.0086682E-03	-2.9683193E-04	
19	9.5005637E-04	-2.8919908E-04	
20	8.9302198E-04	-2.8106579E-04	
21	8.3766029E-04	-2.7248315E-04	
22	7.8405570E-04	-2.6349989E-04	
23	7.3228392E-04	-2.5416277E-04	
24	6.8241119E-04	-2.4451665E-04	
25	6.3449498E-04	-2.3460476E-04	
26	5.8858422E-04	-2.2446886E-04	
27	5.4471988E-04	-2.1414951E-04	
28	5.0293424E-04	-2.0368615E-04	
29	4.6325243E-04	-1.9311764E-04	
30	4.2569165E-04	-1.8248223E-04	
31	3.9026146E-04	-1.7181794E-04	
32	3.5696403E-04	-1.6116278E-04	
33	3.2579337E-04	-1.5055482E-04	
34	2.9673637E-04	-1.4003272E-04	
35	2.6977194E-04	-1.2963578E-04	
36	2.4487104E-04	-1.1940421E-04	
37	2.2199659E-04	-1.0937939E-04	
38	2.0110277E-04	-9.9603957E-05	
39	1.8213542E-04	-9.0122291E-05	
40	1.6503119E-04	-8.0980535E-05	
41	1.4971759E-04	-7.2222966E-05	
42	1.3611398E-04	-6.3885809E-05	
43	1.2413348E-04	-5.5995476E-05	
44	1.1368481E-04	-4.8569843E-05	
45	1.0467390E-04	-4.1619483E-05	
46	9.7005123E-05	-3.5148222E-05	
47	9.0582842E-05	-2.9153546E-05	
48	8.5312486E-05	-2.3627154E-05	
49	8.1101620E-05	-1.8556166E-05	
50	7.7860765E-05	-1.3924225E-05	
51	7.5503939E-05	-9.7123977E-06	
52	7.3949134E-05	-5.9001271E-06	
53	7.3118640E-05	-2.4664968E-06	
54	7.2938789E-05	6.1023970E-07	
55	7.3340308E-05	3.3505644E-06	
56	7.4257882E-05	5.7738970E-06	
57	7.5629910E-05	7.8978762E-06	
58	7.7398101E-05	9.7378829E-06	
59	7.9506979E-05	1.1306623E-05	
60	8.1903310E-05	1.2613764E-05	
61	8.4535466E-05	1.3665630E-05	
62	8.7352725E-05	1.4464940E-05	
63	9.0305904E-05	1.5031179E-05	
64	9.3352109E-05	1.5401102E-05	
65	9.6455525E-05	1.5608734E-05	
66	9.9586867E-05	1.5685333E-05	
67	1.0272282E-04	1.5659369E-05	
68	1.0584549E-04	1.5556521E-05	
69	1.0894183E-04	1.5399683E-05	
70	1.1200310E-04	1.5208978E-05	
71	1.1502432E-04	1.5001784E-05	
72	1.1800370E-04	1.4792755E-05	
73	1.2094210E-04	1.4593849E-05	

74	1.2384253E-04	1.4414356E-05
75	1.2670958E-04	1.4260922E-05
76	1.2954890E-04	1.4137571E-05
77	1.3236671E-04	1.4045726E-05
78	1.3516922E-04	1.3984221E-05
79	1.3796217E-04	1.3949319E-05
80	1.4075030E-04	1.3934714E-05
81	1.4353696E-04	1.3931536E-05

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|                                                                                               |
|          NewProject.BaseDesignSection_28.SISMICASTR_l817  |
|          Exe Time :24 May 2018          18:25:49  |
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New Project

STRESS RESULTS FOR GROUP NO. 1

0\_L  
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 81  
CURRENT TIME IS 3.0000

HARDENING 2D SOIL ELEMENT

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

EL * FACTOR	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
1 D	0.000	-2.1252E-03	0.000	0.000	0.000	0.000	ACTIVE	0.000	0.000	0.000	
1.000	1.000	0.000	0.000	0.000	Ug5_2_8_L_0						
2 D	0.4800	-2.0577E-03	2.141	0.5332	2.141	1.603	ACTIVE	0.000	-0.2000	1.867	
1.000	1.000	2.400	0.000	0.000	Ug5_2_8_L_0						
3 D	0.9620	-1.9903E-03	4.323	1.077	4.323	3.119	ACTIVE	0.000	-0.4000	3.733	
1.000	1.000	4.810	0.000	0.000	Ug5_2_8_L_0						
4 D	1.447	-1.9228E-03	6.558	1.633	6.558	4.509	ACTIVE	0.000	-0.6000	5.600	
1.000	1.000	7.233	0.000	0.000	Ug5_2_8_L_0						
5 D	1.933	-1.8554E-03	8.831	2.199	8.831	5.780	ACTIVE	0.000	-0.8000	7.467	
1.000	1.000	9.665	0.000	0.000	Ug5_2_8_L_0						
6 D	2.420	-1.7880E-03	11.12	2.769	11.12	6.958	ACTIVE	0.000	-1.000	9.333	
1.000	1.000	12.10	0.000	0.000	Ug5_2_8_L_0						
7 D	2.908	-1.7206E-03	13.41	3.339	13.41	8.073	ACTIVE	0.000	-1.200	11.20	
1.000	1.000	14.54	0.000	0.000	Ug5_2_8_L_0						
8 D	3.401	-1.6533E-03	15.81	3.936	15.81	9.145	ACTIVE	0.000	-1.400	13.07	
1.000	1.000	17.00	0.000	0.000	Ug5_2_8_L_0						
9 D	3.895	-1.5862E-03	18.24	4.542	18.24	10.19	ACTIVE	0.000	-1.600	14.93	
1.000	1.000	19.48	0.000	0.000	Ug5_2_8_L_0						
10 D	4.379	-1.5194E-03	20.46	5.096	20.46	11.22	ACTIVE	0.000	-1.800	16.80	
1.000	1.000	21.90	0.000	0.000	Ug5_2_8_L_0						
11 D	4.870	-1.4528E-03	22.82	5.682	22.82	12.23	ACTIVE	0.000	-2.000	18.67	
1.000	1.000	24.35	0.000	0.000	Ug5_2_8_L_0						
12 D	5.358	-1.3868E-03	25.14	6.259	25.14	13.24	ACTIVE	0.000	-2.200	20.53	
1.000	1.000	26.79	0.000	0.000	Ug5_2_8_L_0						
13 D	5.840	-1.3213E-03	27.31	6.800	27.31	14.24	ACTIVE	0.000	-2.400	22.40	
1.000	1.000	29.20	0.000	0.000	Ug5_2_8_L_0						
14 D	6.327	-1.2566E-03	29.59	7.368	29.59	15.24	ACTIVE	0.000	-2.600	24.27	
1.000	1.000	31.63	0.000	0.000	Ug5_2_8_L_0						
15 D	6.813	-1.1929E-03	31.85	7.931	31.85	16.23	ACTIVE	0.000	-2.800	26.13	
1.000	1.000	34.06	0.000	0.000	Ug5_2_8_L_0						
16 D	7.298	-1.1302E-03	34.10	8.490	34.10	17.23	ACTIVE	0.000	-3.000	28.00	
1.000	1.000	36.49	0.000	0.000	Ug5_2_8_L_0						
17 D	7.778	-1.0688E-03	36.24	9.024	36.24	18.22	ACTIVE	0.000	-3.200	29.87	
1.000	1.000	38.89	0.000	0.000	Ug5_2_8_L_0						
18 D	8.262	-1.0087E-03	38.47	9.579	38.47	19.21	ACTIVE	0.000	-3.400	31.73	
1.000	1.000	41.31	0.000	0.000	Ug5_2_8_L_0						
19 D	8.746	-9.5006E-04	40.69	10.13	40.69	20.21	ACTIVE	0.000	-3.600	33.60	
1.000	1.000	43.73	0.000	0.000	Ug5_2_8_L_0						
20 D	9.226	-8.9302E-04	42.82	10.66	42.82	21.20	ACTIVE	0.000	-3.800	35.47	
1.000	1.000	46.13	0.000	0.000	Ug5_2_8_L_0						
21 D	9.709	-8.3766E-04	45.03	11.21	45.03	22.19	ACTIVE	0.000	-4.000	37.33	
1.000	1.000	48.55	0.000	0.000	Ug5_2_8_L_0						
22 D	10.19	-7.8406E-04	47.23	11.76	47.23	23.18	ACTIVE	0.000	-4.200	39.20	
1.000	1.000	50.96	0.000	0.000	Ug5_2_8_L_0						
23 D	10.67	-7.3228E-04	49.36	12.29	49.36	24.18	ACTIVE	0.000	-4.400	41.07	
1.000	1.000	53.36	0.000	0.000	Ug5_2_8_L_0						
24 D	11.15	-6.8241E-04	51.55	12.84	51.55	25.17	ACTIVE	0.000	-4.600	42.93	
1.000	1.000	55.77	0.000	0.000	Ug5_2_8_L_0						
25 D	11.64	-6.3449E-04	53.74	13.38	53.74	26.17	ACTIVE	0.000	-4.800	44.80	
1.000	1.000	58.18	0.000	0.000	Ug5_2_8_L_0						
26 D	12.12	-5.8858E-04	55.92	13.92	55.92	27.16	ACTIVE	0.000	-5.000	46.67	
1.000	1.000	60.59	0.000	0.000	Ug5_2_8_L_0						
27 D	12.60	-5.4472E-04	58.05	14.45	58.05	28.16	ACTIVE	0.000	-5.200	48.53	
1.000	1.000	62.99	0.000	0.000	Ug5_2_8_L_0						
28 D	13.08	-5.0293E-04	60.23	15.00	60.23	29.16	ACTIVE	0.000	-5.400	50.40	
1.000	1.000	65.40	0.000	0.000	Ug5_2_8_L_0						
29 D	13.56	-4.6325E-04	62.40	15.54	62.40	30.15	ACTIVE	0.000	-5.600	52.27	
1.000	1.000	67.81	0.000	0.000	Ug5_2_8_L_0						
30 D	14.04	-4.2569E-04	64.53	16.07	64.53	31.15	ACTIVE	0.000	-5.800	54.13	
1.000	1.000	70.20	0.000	0.000	Ug5_2_8_L_0						
31 D	14.52	-3.9026E-04	66.70	16.61	66.70	32.15	ACTIVE	0.000	-6.000	56.00	
1.000	1.000	72.61	0.000	0.000	Ug5_2_8_L_0						
32 D	15.00	-3.5696E-04	68.87	17.15	68.87	33.15	ACTIVE	0.000	-6.200	57.87	
1.000	1.000	75.02	0.000	0.000	Ug5_2_8_L_0						
33 D	15.48	-3.2579E-04	70.99	17.68	70.99	34.15	ACTIVE	0.000	-6.400	59.73	

1.000	1.000	77.41	0.000	0.000	Ug5_2_8_L_0						
34 D	15.96	-2.9674E-04	73.16	18.22	73.16	35.15	ACTIVE	0.000	-6.600	61.60	
1.000	1.000	79.82	0.000	0.000	Ug5_2_8_L_0						
35 D	16.44	-2.6977E-04	75.32	18.76	75.32	36.15	ACTIVE	0.000	-6.800	63.47	
1.000	1.000	82.22	0.000	0.000	Ug5_2_8_L_0						
36 D	16.93	-2.4487E-04	77.49	19.29	77.49	37.16	ACTIVE	0.000	-7.000	65.33	
1.000	1.000	84.63	0.000	0.000	Ug5_2_8_L_0						
37 D	17.40	-2.2200E-04	79.61	19.82	79.61	38.16	ACTIVE	0.000	-7.200	67.20	
1.000	1.000	87.02	0.000	0.000	Ug5_2_8_L_0						
38 D	17.89	-2.0110E-04	81.77	20.36	81.77	39.16	ACTIVE	0.000	-7.400	69.07	
1.000	1.000	89.43	0.000	0.000	Ug5_2_8_L_0						
39 D	18.37	-1.8214E-04	83.93	20.90	83.93	40.17	ACTIVE	0.000	-7.600	70.93	
1.000	1.000	91.83	0.000	0.000	Ug5_2_8_L_0						
40 D	19.12	-1.6503E-04	86.05	22.80	86.05	41.17	UL-RL	1.1282E+05	-7.800	72.80	
1.000	1.000	95.60	0.000	0.000	Ug5_2_8_L_0						
41 D	20.05	-1.4972E-04	88.21	25.58	88.21	42.18	UL-RL	1.1282E+05	-8.000	74.67	
1.000	1.000	100.2	0.000	0.000	Ug5_2_8_L_0						
42 D	20.94	-1.3611E-04	90.37	28.17	90.37	43.19	UL-RL	1.1282E+05	-8.200	76.53	
1.000	1.000	104.7	0.000	0.000	Ug5_2_8_L_0						
43 D	21.79	-1.2413E-04	92.49	30.57	92.49	44.19	UL-RL	1.1282E+05	-8.400	78.40	
1.000	1.000	109.0	0.000	0.000	Ug5_2_8_L_0						
44 D	22.61	-1.1368E-04	94.65	32.79	94.65	45.20	UL-RL	1.1282E+05	-8.600	80.27	
1.000	1.000	113.1	0.000	0.000	Ug5_2_8_L_0						
45 D	23.40	-1.0467E-04	96.80	34.85	96.80	46.21	UL-RL	1.1282E+05	-8.800	82.13	
1.000	1.000	117.0	0.000	0.000	Ug5_2_8_L_0						
46 D	24.15	-9.7005E-05	98.96	36.76	98.96	47.22	UL-RL	1.1282E+05	-9.000	84.00	
1.000	1.000	120.8	0.000	0.000	Ug5_2_8_L_0						
47 D	24.88	-9.0583E-05	101.1	38.52	101.1	48.23	UL-RL	1.1282E+05	-9.200	85.87	
1.000	1.000	124.4	0.000	0.000	Ug5_2_8_L_0						
48 D	25.58	-8.5312E-05	103.2	40.15	103.2	49.24	UL-RL	1.1282E+05	-9.400	87.73	
1.000	1.000	127.9	0.000	0.000	Ug5_2_8_L_0						
49 D	26.25	-8.1102E-05	105.4	41.66	105.4	50.26	UL-RL	1.1282E+05	-9.600	89.60	
1.000	1.000	131.3	0.000	0.000	Ug5_2_8_L_0						
50 D	26.91	-7.7861E-05	107.5	43.07	107.5	51.27	UL-RL	1.1282E+05	-9.800	91.47	
1.000	1.000	134.5	0.000	0.000	Ug5_2_8_L_0						
51 D	27.54	-7.5504E-05	109.7	44.36	109.7	52.28	UL-RL	1.1282E+05	-10.000	93.33	
1.000	1.000	137.7	0.000	0.000	Ug5_2_8_L_0						
52 D	28.15	-7.3949E-05	111.8	45.57	111.8	53.29	UL-RL	1.1282E+05	-10.200	95.20	
1.000	1.000	140.8	0.000	0.000	Ug5_2_8_L_0						
53 D	28.75	-7.3119E-05	113.9	46.70	113.9	54.31	UL-RL	1.1282E+05	-10.400	97.07	
1.000	1.000	143.8	0.000	0.000	Ug5_2_8_L_0						
54 D	29.34	-7.2939E-05	116.1	47.75	116.1	55.32	UL-RL	1.1282E+05	-10.600	98.93	
1.000	1.000	146.7	0.000	0.000	Ug5_2_8_L_0						
55 D	29.91	-7.3340E-05	118.2	48.73	118.2	56.34	UL-RL	1.1282E+05	-10.800	100.8	
1.000	1.000	149.5	0.000	0.000	Ug5_2_8_L_0						
56 D	30.47	-7.4258E-05	120.4	49.66	120.4	57.35	UL-RL	1.1282E+05	-11.000	102.7	
1.000	1.000	152.3	0.000	0.000	Ug5_2_8_L_0						
57 D	31.01	-7.5630E-05	122.5	50.53	122.5	58.37	UL-RL	1.1282E+05	-11.200	104.5	
1.000	1.000	155.1	0.000	0.000	Ug5_2_8_L_0						
58 D	31.55	-7.7398E-05	124.6	51.36	124.6	59.39	UL-RL	1.1282E+05	-11.400	106.4	
1.000	1.000	157.8	0.000	0.000	Ug5_2_8_L_0						
59 D	32.08	-7.9507E-05	126.8	52.15	126.8	60.40	UL-RL	1.1282E+05	-11.600	108.3	
1.000	1.000	160.4	0.000	0.000	Ug5_2_8_L_0						
60 D	32.61	-8.1903E-05	128.9	52.91	128.9	61.42	UL-RL	1.1282E+05	-11.800	110.1	
1.000	1.000	163.0	0.000	0.000	Ug5_2_8_L_0						
61 D	33.13	-8.4535E-05	131.1	53.64	131.1	62.44	UL-RL	1.1282E+05	-12.000	112.0	
1.000	1.000	165.6	0.000	0.000	Ug5_2_8_L_0						
62 D	34.79	-8.7353E-05	133.0	60.09	133.0	63.36	UL-RL	5.4011E+04	-12.200	113.9	
1.000	1.000	174.0	0.000	0.000	Ug6_741_743_L_0						
63 D	35.32	-9.0306E-05	135.0	60.87	135.0	64.28	UL-RL	5.4011E+04	-12.400	115.7	
1.000	1.000	176.6	0.000	0.000	Ug6_741_743_L_0						
64 D	35.85	-9.3352E-05	136.9	61.65	136.9	65.20	UL-RL	5.4011E+04	-12.600	117.6	
1.000	1.000	179.2	0.000	0.000	Ug6_741_743_L_0						
65 D	36.38	-9.6456E-05	138.8	62.42	138.8	66.12	UL-RL	5.4011E+04	-12.800	119.5	
1.000	1.000	181.9	0.000	0.000	Ug6_741_743_L_0						
66 D	36.91	-9.9587E-05	140.7	63.20	140.7	67.04	UL-RL	5.4011E+04	-13.000	121.3	
1.000	1.000	184.5	0.000	0.000	Ug6_741_743_L_0						
67 D	37.43	-1.0272E-04	142.6	63.97	142.6	67.96	UL-RL	5.4011E+04	-13.200	123.2	
1.000	1.000	187.2	0.000	0.000	Ug6_741_743_L_0						
68 D	37.96	-1.0585E-04	144.5	64.75	144.5	68.88	UL-RL	5.4011E+04	-13.400	125.1	
1.000	1.000	189.8	0.000	0.000	Ug6_741_743_L_0						
69 D	38.49	-1.0894E-04	146.4	65.53	146.4	69.80	UL-RL	5.4011E+04	-13.600	126.9	
1.000	1.000	192.5	0.000	0.000	Ug6_741_743_L_0						
70 D	39.02	-1.1200E-04	148.3	66.31	148.3	70.72	UL-RL	5.4011E+04	-13.800	128.8	
1.000	1.000	195.1	0.000	0.000	Ug6_741_743_L_0						
71 D	39.55	-1.1502E-04	150.2	67.09	150.2	71.64	UL-RL	5.4011E+04	-14.000	130.7	
1.000	1.000	197.8	0.000	0.000	Ug6_741_743_L_0						
72 D	40.08	-1.1800E-04	152.1	67.88	152.1	72.56	UL-RL	5.4011E+04	-14.200	132.5	
1.000	1.000	200.4	0.000	0.000	Ug6_741_743_L_0						
73 D	40.61	-1.2094E-04	154.0	68.67	154.0	73.49	UL-RL	5.4011E+04	-14.400	134.4	
1.000	1.000	203.1	0.000	0.000	Ug6_741_743_L_0						
74 D	41.15	-1.2384E-04	155.9	69.46	155.9	74.41	UL-RL	5.4011E+04	-14.600	136.3	
1.000	1.000	205.7	0.000	0.000	Ug6_741_743_L_0						
75 D	41.68	-1.2671E-04	157.8	70.25	157.8	75.33	UL-RL	5.4011E+04	-14.800	138.1	
1.000	1.000	208.4	0.000	0.000	Ug6_741_743_L_0						
76 D	42.21	-1.2955E-04	159.7	71.05	159.7	76.25	UL-RL	5.4011E+04	-15.000	140.0	
1.000	1.000	211.0	0.000	0.000	Ug6_741_743_L_0						
77 D	42.74	-1.3237E-04	161.7	71.85	161.7	77.18	UL-RL	5.4011E+04	-15.200	141.9	
1.000	1.000	213.7	0.000	0.000	Ug6_741_743_L_0						
78 D	43.28	-1.3517E-04	163.6	72.65	163.6	78.10	UL-RL	5.4011E+04	-15.400	143.7	
1.000	1.000	216.4	0.000	0.000	Ug6_741_743_L_0						

79 D	43.81	-1.3796E-04	165.5	73.45	165.5	79.03	UL-RL	5.4011E+04	-15.60	145.6
1.000	1.000	219.0	0.000	0.000	Ug6_741_743_L_0					
80 D	44.34	-1.4075E-04	167.4	74.25	167.4	79.95	UL-RL	5.4011E+04	-15.80	147.5
1.000	1.000	221.7	0.000	0.000	Ug6_741_743_L_0					
81 D	22.44	-1.4354E-04	169.3	75.05	169.3	80.88	UL-RL	5.4011E+04	-16.00	149.3
1.000	1.000	224.4	0.000	0.000	Ug6_741_743_L_0					



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|                PARATIEPLUS(TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION *Build date:Jul 11, 2017*                |
|                                                                                                                                            |
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|                NewProject.BaseDesignSection_28.SISMICASTR_1817                                                                            |
|                Exe Time :24 May 2018  18:25:49                                                                                              |
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New Project

STRESS RESULTS FOR GROUP NO. 2

0\_R :  
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 81  
CURRENT TIME IS 3.0000

HARDENING 2D SOIL ELEMENT

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

EL * FACTOR	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
1	0.000	--	--	--	--	--	REMOVED	--	0.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
2	0.000	--	--	--	--	--	REMOVED	--	-0.2000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
3	0.000	--	--	--	--	--	REMOVED	--	-0.4000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
4	0.000	--	--	--	--	--	REMOVED	--	-0.6000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
5	0.000	--	--	--	--	--	REMOVED	--	-0.8000	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	--	-1.200	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
8	0.000	--	--	--	--	--	REMOVED	--	-1.400	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
9	0.000	--	--	--	--	--	REMOVED	--	-1.600	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
10	0.000	--	--	--	--	--	REMOVED	--	-1.800	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
11 D	0.000	1.4528E-03	0.000	0.000	20.00	15.76	PASSIVE	0.000	-2.000	0.000	
1.000	1.000	0.000	0.000	0.000	Ug5_2_8_L_0						
12 D	2.942	1.3868E-03	1.867	12.58	22.00	16.47	PASSIVE	0.000	-2.200	2.133	
1.000	1.000	14.71	0.000	0.000	Ug5_2_8_L_0						
13 D	5.884	1.3213E-03	3.733	25.16	24.00	25.16	PASSIVE	0.000	-2.400	4.267	
1.000	1.000	29.42	0.000	0.000	Ug5_2_8_L_0						
14 D	8.640	1.2566E-03	5.600	36.80	26.00	36.80	V-C	1.8697E+04	-2.600	6.400	
1.000	1.000	43.20	0.000	0.000	Ug5_2_8_L_0						
15 D	9.024	1.1929E-03	7.467	36.59	28.00	36.59	V-C	1.8697E+04	-2.800	8.533	
1.000	1.000	45.12	0.000	0.000	Ug5_2_8_L_0						
16 D	9.408	1.1302E-03	9.333	36.37	30.00	36.37	V-C	1.8697E+04	-3.000	10.67	
1.000	1.000	47.04	0.000	0.000	Ug5_2_8_L_0						
17 D	9.794	1.0688E-03	11.20	36.17	32.00	36.17	V-C	1.8697E+04	-3.200	12.80	
1.000	1.000	48.97	0.000	0.000	Ug5_2_8_L_0						
18 D	10.18	1.0087E-03	13.07	35.99	34.00	35.99	V-C	1.8697E+04	-3.400	14.93	
1.000	1.000	50.92	0.000	0.000	Ug5_2_8_L_0						
19 D	10.58	9.5006E-04	14.93	35.83	36.00	35.83	V-C	1.8697E+04	-3.600	17.07	
1.000	1.000	52.89	0.000	0.000	Ug5_2_8_L_0						
20 D	10.98	8.9302E-04	16.80	35.69	38.00	35.69	V-C	1.8697E+04	-3.800	19.20	
1.000	1.000	54.89	0.000	0.000	Ug5_2_8_L_0						
21 D	11.39	8.3766E-04	18.67	35.59	40.00	35.59	V-C	1.8697E+04	-4.000	21.33	
1.000	1.000	56.93	0.000	0.000	Ug5_2_8_L_0						
22 D	11.80	7.8406E-04	20.53	35.52	42.00	35.52	V-C	1.8697E+04	-4.200	23.47	
1.000	1.000	58.99	0.000	0.000	Ug5_2_8_L_0						
23 D	12.22	7.3228E-04	22.40	35.49	44.00	35.49	V-C	1.8697E+04	-4.400	25.60	
1.000	1.000	61.09	0.000	0.000	Ug5_2_8_L_0						
24 D	12.64	6.8241E-04	24.27	35.49	46.00	35.49	V-C	1.8697E+04	-4.600	27.73	
1.000	1.000	63.22	0.000	0.000	Ug5_2_8_L_0						
25 D	13.08	6.3449E-04	26.13	35.53	48.00	35.53	V-C	1.8697E+04	-4.800	29.87	
1.000	1.000	65.40	0.000	0.000	Ug5_2_8_L_0						
26 D	13.52	5.8858E-04	28.00	35.61	50.00	35.61	V-C	1.8697E+04	-5.000	32.00	
1.000	1.000	67.61	0.000	0.000	Ug5_2_8_L_0						
27 D	13.97	5.4472E-04	29.87	35.73	52.00	35.73	V-C	1.8697E+04	-5.200	34.13	
1.000	1.000	69.86	0.000	0.000	Ug5_2_8_L_0						
28 D	14.43	5.0293E-04	31.73	35.89	54.00	35.89	V-C	1.8697E+04	-5.400	36.27	
1.000	1.000	72.15	0.000	0.000	Ug5_2_8_L_0						
29 D	14.90	4.6325E-04	33.60	36.09	56.00	36.09	V-C	1.8697E+04	-5.600	38.40	
1.000	1.000	74.49	0.000	0.000	Ug5_2_8_L_0						
30 D	15.37	4.2569E-04	35.47	36.33	58.00	36.33	V-C	1.8697E+04	-5.800	40.53	
1.000	1.000	76.86	0.000	0.000	Ug5_2_8_L_0						
31 D	15.86	3.9026E-04	37.33	36.62	60.00	36.62	V-C	1.8697E+04	-6.000	42.67	
1.000	1.000	79.28	0.000	0.000	Ug5_2_8_L_0						
32 D	16.35	3.5696E-04	39.20	36.94	62.00	36.94	V-C	1.8697E+04	-6.200	44.80	
1.000	1.000	81.74	0.000	0.000	Ug5_2_8_L_0						
33 D	16.85	3.2579E-04	41.07	37.31	64.00	37.31	V-C	1.8697E+04	-6.400	46.93	

1.000	1.000	84.25	0.000	0.000	Ug5_2_8_L_0					
34 D	17.36	2.9674E-04	42.93	37.72	66.00	37.72	V-C	1.8697E+04	-6.600	49.07
1.000	1.000	86.79	0.000	0.000	Ug5_2_8_L_0					
35 D	17.87	2.6977E-04	44.80	38.17	68.00	38.17	V-C	1.8697E+04	-6.800	51.20
1.000	1.000	89.37	0.000	0.000	Ug5_2_8_L_0					
36 D	18.40	2.4487E-04	46.67	38.66	70.00	38.66	V-C	1.8697E+04	-7.000	53.33
1.000	1.000	92.00	0.000	0.000	Ug5_2_8_L_0					
37 D	18.93	2.2200E-04	48.53	39.19	72.00	39.19	V-C	1.8697E+04	-7.200	55.47
1.000	1.000	94.66	0.000	0.000	Ug5_2_8_L_0					
38 D	19.47	2.0110E-04	50.40	39.76	74.00	39.76	V-C	1.8697E+04	-7.400	57.60
1.000	1.000	97.36	0.000	0.000	Ug5_2_8_L_0					
39 D	20.02	1.8214E-04	52.27	40.37	76.00	40.37	V-C	1.8697E+04	-7.600	59.73
1.000	1.000	100.1	0.000	0.000	Ug5_2_8_L_0					
40 D	20.58	1.6503E-04	54.13	41.01	78.00	41.01	V-C	1.8697E+04	-7.800	61.87
1.000	1.000	102.9	0.000	0.000	Ug5_2_8_L_0					
41 D	21.14	1.4972E-04	56.00	41.69	80.00	41.69	V-C	1.8697E+04	-8.000	64.00
1.000	1.000	105.7	0.000	0.000	Ug5_2_8_L_0					
42 D	21.71	1.3611E-04	57.87	42.40	82.00	42.40	V-C	1.8697E+04	-8.200	66.13
1.000	1.000	108.5	0.000	0.000	Ug5_2_8_L_0					
43 D	22.28	1.2413E-04	59.73	43.14	84.00	43.14	V-C	1.8697E+04	-8.400	68.27
1.000	1.000	111.4	0.000	0.000	Ug5_2_8_L_0					
44 D	22.86	1.1368E-04	61.60	43.92	86.00	43.92	V-C	1.8697E+04	-8.600	70.40
1.000	1.000	114.3	0.000	0.000	Ug5_2_8_L_0					
45 D	23.42	1.0467E-04	63.47	44.56	88.00	44.79	UL-RL	5.6090E+04	-8.800	72.53
1.000	1.000	117.1	0.000	0.000	Ug5_2_8_L_0					
46 D	23.95	9.7005E-05	65.33	45.08	90.00	45.77	UL-RL	5.6090E+04	-9.000	74.67
1.000	1.000	119.8	0.000	0.000	Ug5_2_8_L_0					
47 D	24.50	9.0583E-05	67.20	45.68	92.00	46.75	UL-RL	5.6090E+04	-9.200	76.80
1.000	1.000	122.5	0.000	0.000	Ug5_2_8_L_0					
48 D	25.05	8.5312E-05	69.07	46.34	94.00	47.73	UL-RL	5.6090E+04	-9.400	78.93
1.000	1.000	125.3	0.000	0.000	Ug5_2_8_L_0					
49 D	25.63	8.1102E-05	70.93	47.06	96.00	48.71	UL-RL	5.6090E+04	-9.600	81.07
1.000	1.000	128.1	0.000	0.000	Ug5_2_8_L_0					
50 D	26.21	7.7861E-05	72.80	47.84	98.00	49.69	UL-RL	5.6090E+04	-9.800	83.20
1.000	1.000	131.0	0.000	0.000	Ug5_2_8_L_0					
51 D	26.80	7.5504E-05	74.67	48.66	100.00	50.67	UL-RL	5.6090E+04	-10.000	85.33
1.000	1.000	134.0	0.000	0.000	Ug5_2_8_L_0					
52 D	27.40	7.3949E-05	76.53	49.54	102.0	51.65	UL-RL	5.6090E+04	-10.200	87.47
1.000	1.000	137.0	0.000	0.000	Ug5_2_8_L_0					
53 D	28.01	7.3119E-05	78.40	50.45	104.0	52.63	UL-RL	5.6090E+04	-10.400	89.60
1.000	1.000	140.1	0.000	0.000	Ug5_2_8_L_0					
54 D	28.63	7.2939E-05	80.27	51.40	106.0	53.61	UL-RL	5.6090E+04	-10.600	91.73
1.000	1.000	143.1	0.000	0.000	Ug5_2_8_L_0					
55 D	29.25	7.3340E-05	82.13	52.39	108.0	54.60	UL-RL	5.6090E+04	-10.800	93.87
1.000	1.000	146.3	0.000	0.000	Ug5_2_8_L_0					
56 D	29.88	7.4258E-05	84.00	53.41	110.0	55.58	UL-RL	5.6090E+04	-11.000	96.00
1.000	1.000	149.4	0.000	0.000	Ug5_2_8_L_0					
57 D	30.52	7.5630E-05	85.87	54.45	112.0	56.56	UL-RL	5.6090E+04	-11.200	98.13
1.000	1.000	152.6	0.000	0.000	Ug5_2_8_L_0					
58 D	31.16	7.7398E-05	87.73	55.52	114.0	57.55	UL-RL	5.6090E+04	-11.400	100.3
1.000	1.000	155.8	0.000	0.000	Ug5_2_8_L_0					
59 D	31.80	7.9507E-05	89.60	56.60	116.0	58.53	UL-RL	5.6090E+04	-11.600	102.4
1.000	1.000	159.0	0.000	0.000	Ug5_2_8_L_0					
60 D	32.45	8.1903E-05	91.47	57.70	118.0	59.52	UL-RL	5.6090E+04	-11.800	104.5
1.000	1.000	162.2	0.000	0.000	Ug5_2_8_L_0					
61 D	33.10	8.4535E-05	93.33	58.82	120.0	60.50	UL-RL	5.6090E+04	-12.000	106.7
1.000	1.000	165.5	0.000	0.000	Ug5_2_8_L_0					
62 D	33.45	8.7353E-05	95.00	58.46	121.8	61.39	UL-RL	4.2179E+04	-12.200	108.8
1.000	1.000	167.3	0.000	0.000	Ug6_741_743_L_0					
63 D	34.08	9.0306E-05	96.67	59.45	123.6	62.28	UL-RL	4.2179E+04	-12.400	110.9
1.000	1.000	170.4	0.000	0.000	Ug6_741_743_L_0					
64 D	34.70	9.3352E-05	98.33	60.45	125.4	63.16	UL-RL	4.2179E+04	-12.600	113.1
1.000	1.000	173.5	0.000	0.000	Ug6_741_743_L_0					
65 D	35.33	9.6456E-05	100.00	61.44	127.2	64.05	UL-RL	4.2179E+04	-12.800	115.2
1.000	1.000	176.6	0.000	0.000	Ug6_741_743_L_0					
66 D	35.96	9.9587E-05	101.7	62.44	129.0	64.94	UL-RL	4.2179E+04	-13.000	117.3
1.000	1.000	179.8	0.000	0.000	Ug6_741_743_L_0					
67 D	36.58	1.0272E-04	103.3	63.44	130.8	65.83	UL-RL	4.2179E+04	-13.200	119.5
1.000	1.000	182.9	0.000	0.000	Ug6_741_743_L_0					
68 D	37.21	1.0585E-04	105.0	64.44	132.6	66.72	UL-RL	4.2179E+04	-13.400	121.6
1.000	1.000	186.0	0.000	0.000	Ug6_741_743_L_0					
69 D	37.83	1.0894E-04	106.7	65.43	134.4	67.60	UL-RL	4.2179E+04	-13.600	123.7
1.000	1.000	189.2	0.000	0.000	Ug6_741_743_L_0					
70 D	38.46	1.1200E-04	108.3	66.43	136.2	68.49	UL-RL	4.2179E+04	-13.800	125.9
1.000	1.000	192.3	0.000	0.000	Ug6_741_743_L_0					
71 D	39.08	1.1502E-04	110.0	67.42	138.0	69.38	UL-RL	4.2179E+04	-14.000	128.0
1.000	1.000	195.4	0.000	0.000	Ug6_741_743_L_0					
72 D	39.71	1.1800E-04	111.7	68.41	139.8	70.27	UL-RL	4.2179E+04	-14.200	130.1
1.000	1.000	198.5	0.000	0.000	Ug6_741_743_L_0					
73 D	40.33	1.2094E-04	113.3	69.40	141.6	71.16	UL-RL	4.2179E+04	-14.400	132.3
1.000	1.000	201.7	0.000	0.000	Ug6_741_743_L_0					
74 D	40.96	1.2384E-04	115.0	70.39	143.4	72.05	UL-RL	4.2179E+04	-14.600	134.4
1.000	1.000	204.8	0.000	0.000	Ug6_741_743_L_0					
75 D	41.58	1.2671E-04	116.7	71.38	145.2	72.94	UL-RL	4.2179E+04	-14.800	136.5
1.000	1.000	207.9	0.000	0.000	Ug6_741_743_L_0					
76 D	42.21	1.2955E-04	118.3	72.36	147.0	73.84	UL-RL	4.2179E+04	-15.000	138.7
1.000	1.000	211.0	0.000	0.000	Ug6_741_743_L_0					
77 D	42.83	1.3237E-04	120.0	73.35	148.8	74.73	UL-RL	4.2179E+04	-15.200	140.8
1.000	1.000	214.1	0.000	0.000	Ug6_741_743_L_0					
78 D	43.45	1.3517E-04	121.7	74.33	150.6	75.62	UL-RL	4.2179E+04	-15.400	142.9
1.000	1.000	217.3	0.000	0.000	Ug6_741_743_L_0					

79 D	44.08	1.3796E-04	123.3	75.31	152.4	76.51	UL-RL	4.2179E+04	-15.60	145.1
1.000	1.000	220.4	0.000	0.000	Ug6_741_743_L_0					
80 D	44.70	1.4075E-04	125.0	76.30	154.2	77.40	UL-RL	4.2179E+04	-15.80	147.2
1.000	1.000	223.5	0.000	0.000	Ug6_741_743_L_0					
81 D	22.66	1.4354E-04	126.7	77.28	156.0	78.29	UL-RL	4.2179E+04	-16.00	149.3
1.000	1.000	226.6	0.000	0.000	Ug6_741_743_L_0					

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|                PARATIEPLUS(TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION *Build date:Jul 11, 2017*  |
|                                                                                                    |
|                                                                                                    |
|                NewProject.BaseDesignSection_28.SISMICASTR_1817  |
|                Exe Time :24 May 2018          18:25:49  |
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New Project

STRESS RESULTS FOR GROUP NO. 3

WallElement\_33 :  
ELEMENT TYPE 2 NO.OF ELEMENTS. IN THIS GROUP 80  
CURRENT TIME IS 3.0000

WALL2D ELEMENT

EL	TA	TB	MA	MB
1	-4.29914E-10	4.29914E-10	-4.31832E-11	-1.89935E-10
2	0.47998	-0.47998	1.61177E-10	9.59953E-02
3	1.4419	-1.4419	-9.59953E-02	0.38439
4	2.8885	-2.8885	-0.38439	0.96209
5	4.8216	-4.8216	-0.96209	1.9264
6	7.2421	-7.2421	-1.9264	3.3748
7	10.150	-10.150	-3.3748	5.4048
8	13.551	-13.551	-5.4048	8.1149
9	17.446	-17.446	-8.1149	11.604
10	21.825	-21.825	-11.604	15.969
11	26.694	-26.694	-15.969	21.308
12	29.111	-29.111	-21.308	27.130
13	29.066	-29.066	-27.130	32.943
14	26.753	-26.753	-32.943	38.294
15	24.542	-24.542	-38.294	43.202
16	22.432	-22.432	-43.202	47.689
17	20.416	-20.416	-47.689	51.772
18	18.494	-18.494	-51.772	55.471
19	16.662	-16.662	-55.471	58.803
20	14.909	-14.909	-58.803	61.785
21	13.233	-13.233	-61.785	64.431
22	11.627	-11.627	-64.431	66.757
23	10.081	-10.081	-66.757	68.773
24	8.5900	-8.5900	-68.773	70.491
25	7.1471	-7.1471	-70.491	71.920
26	5.7439	-5.7439	-71.920	73.069
27	4.3693	-4.3693	-73.069	73.943
28	3.0179	-3.0179	-73.943	74.547
29	1.6812	-1.6812	-74.547	74.883
30	0.34834	-0.34834	-74.883	74.952
31	-0.98667	0.98667	-74.952	74.755
32	-2.3323	2.3323	-74.755	74.289
33	-3.6993	3.6993	-74.289	73.549
34	-5.0937	5.0937	-73.549	72.530
35	-6.5237	6.5237	-72.530	71.225
36	-7.9975	7.9975	-71.225	69.626
37	-9.5252	9.5252	-69.626	67.721
38	-11.112	11.112	-67.721	65.498
39	-12.767	12.767	-65.498	62.945
40	-14.223	14.223	-62.945	60.100
41	-15.311	15.311	-60.100	57.038
42	-16.078	16.078	-57.038	53.822
43	-16.567	16.567	-53.822	50.509
44	-16.819	16.819	-50.509	47.145
45	-16.841	16.841	-47.145	43.777
46	-16.640	16.640	-43.777	40.449
47	-16.258	16.258	-40.449	37.198
48	-15.735	15.735	-37.198	34.051
49	-15.107	15.107	-34.051	31.029
50	-14.408	14.408	-31.029	28.148
51	-13.668	13.668	-28.148	25.414
52	-12.914	12.914	-25.414	22.831
53	-12.171	12.171	-22.831	20.397
54	-11.462	11.462	-20.397	18.105
55	-10.807	10.807	-18.105	15.943
56	-10.223	10.223	-15.943	13.899
57	-9.7263	9.7263	-13.899	11.954
58	-9.3304	9.3304	-11.954	10.087
59	-9.0471	9.0471	-10.087	8.2781
60	-8.8863	8.8863	-8.2781	6.5008
61	-8.8560	8.8560	-6.5008	4.7296
62	-7.5175	7.5175	-4.7296	3.2261
63	-6.2739	6.2739	-3.2261	1.9713
64	-5.1271	5.1271	-1.9713	0.94592
65	-4.0781	4.0781	-0.94592	0.13031
66	-3.1271	3.1271	-0.13031	-0.49511
67	-2.2741	2.2741	0.49511	-0.94993
68	-1.5188	1.5188	0.94993	-1.2537
69	-0.86036	0.86036	1.2537	-1.4258

70	-0.29804	0.29804	1.4258	-1.4854
71	0.16912	-0.16912	1.4854	-1.4515
72	0.54206	-0.54206	1.4515	-1.3431
73	0.82172	-0.82172	1.3431	-1.1788
74	1.0089	-1.0089	1.1788	-0.97700
75	1.1044	-1.1044	0.97700	-0.75611
76	1.1089	-1.1089	0.75611	-0.53434
77	1.0227	-1.0227	0.53434	-0.32981
78	0.84619	-0.84619	0.32981	-0.16057
79	0.57966	-0.57966	0.16057	-4.46398E-02
80	0.22319	-0.22319	4.46398E-02	2.75346E-12

```

ITER      0  RNORM = 0.000      RMNORM= 0.000
            RINORM=0.1171E+06  RIMNOR=0.2843E+06
            RENORM= 612.1      REMNOR=0.1057E-19  RATIO =0.7230E-01  TOLER =0.1000E-03  NOT CONVERGED
            RFMAX = 43.76      RMMAX = 74.95
            RTSMAL=0.1000E-03  RMSMAL=0.1000E-03
            RDT =0.1171E+06    RDR =0.2843E+06
            RATIOI=0.7230E-01  RATIOOR= 0.000
            MAX UN= 9.298      IEQ= 31 NODE      16 DOF      1 Y-DISPL.F
            MIN UN=-.7356E-01  IEQ= 21 NODE      11 DOF      1 Y-DISPL.F
            NO. OF CONTACT CONSTRAINT VIOLATIONS      0

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ITER      2  RNORM = 0.000      RMNORM= 0.000
            RINORM=0.1171E+06  RIMNOR=0.2843E+06
            RENORM= 165.6      REMNOR=0.1129E-19  RATIO =0.3761E-01  TOLER =0.1000E-03  NOT CONVERGED
            RFMAX = 43.76      RMMAX = 74.95
            RTSMAL=0.1000E-03  RMSMAL=0.1000E-03
            RDT =0.1171E+06    RDR =0.2843E+06
            RATIOI=0.3761E-01  RATIOOR= 0.000
            MAX UN= 2.504      IEQ= 39 NODE      20 DOF      1 Y-DISPL.F
            MIN UN=-.3693E-02  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=0.1171E+06  RIMNOR=0.2843E+06
            RENORM= 91.11      REMNOR=0.9564E-18  RATIO =0.2789E-01  TOLER =0.1000E-03  NOT CONVERGED
            RFMAX = 43.76      RMMAX = 74.95
            RTSMAL=0.1000E-03  RMSMAL=0.1000E-03
            RDT =0.1171E+06    RDR =0.2843E+06
            RATIOI=0.2789E-01  RATIOOR= 0.000
            MAX UN= 5.206      IEQ= 85 NODE      43 DOF      1 Y-DISPL.F
            MIN UN=-.4107E-08  IEQ= 23 NODE      12 DOF      1 Y-DISPL.F
            NO. OF CONTACT CONSTRAINT VIOLATIONS      0

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ITER      4  RNORM = 0.000      RMNORM= 0.000
            RINORM=0.1171E+06  RIMNOR=0.2843E+06
            RENORM= 1.926      REMNOR=0.1805E-18  RATIO =0.4056E-02  TOLER =0.1000E-03  NOT CONVERGED
            RFMAX = 43.76      RMMAX = 74.95
            RTSMAL=0.1000E-03  RMSMAL=0.1000E-03
            RDT =0.1171E+06    RDR =0.2843E+06
            RATIOI=0.4056E-02  RATIOOR= 0.000
            MAX UN= 1.259      IEQ= 97 NODE      49 DOF      1 Y-DISPL.F
            MIN UN=-.2725E-08  IEQ= 29 NODE      15 DOF      1 Y-DISPL.F
            NO. OF CONTACT CONSTRAINT VIOLATIONS      0

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ITER      5  RNORM = 0.000      RMNORM= 0.000
            RINORM=0.1171E+06  RIMNOR=0.2843E+06
            RENORM=0.4394E-16  REMNOR=0.1376E-18  RATIO =0.1937E-10  TOLER =0.1000E-03  CONVERGED !
            RFMAX = 43.76      RMMAX = 74.95
            RTSMAL=0.1000E-03  RMSMAL=0.1000E-03
            RDT =0.1171E+06    RDR =0.2843E+06
            RATIOI=0.1937E-10  RATIOOR= 0.000
            MAX UN=0.2200E-08  IEQ= 7 NODE      4 DOF      1 Y-DISPL.F
            MIN UN=-.2567E-08  IEQ= 5 NODE      3 DOF      1 Y-DISPL.F
            NO. OF CONTACT CONSTRAINT VIOLATIONS      0

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|                PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                                                                            |
|                                                                                                                                            |
|                                                                                                                                            |
|                NewProject.BaseDesignSection_28.SISMICASTR_l817  |
|                Exe Time :24 May 2018  18:25:49  |
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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	7.3475448E-03	-9.7666762E-04	
2	7.1522113E-03	-9.7666762E-04	
3	6.9568782E-03	-9.7666094E-04	
4	6.7615487E-03	-9.7662754E-04	
5	6.5662312E-03	-9.7653391E-04	
6	6.3709423E-03	-9.7633304E-04	
7	6.1757092E-03	-9.7596438E-04	
8	5.9805727E-03	-9.7535382E-04	
9	5.7855896E-03	-9.7441359E-04	
10	5.5908360E-03	-9.7304221E-04	
11	5.3964092E-03	-9.7112456E-04	
12	5.2024311E-03	-9.6853199E-04	
13	5.0090508E-03	-9.6512220E-04	
14	4.8164471E-03	-9.6073940E-04	
15	4.6248312E-03	-9.5521433E-04	
16	4.4344497E-03	-9.4836420E-04	
17	4.2455860E-03	-9.3999266E-04	
18	4.0585644E-03	-9.2993074E-04	
19	3.8737332E-03	-9.1807731E-04	
20	3.6914551E-03	-9.0439915E-04	
21	3.5120937E-03	-8.8893109E-04	
22	3.3359961E-03	-8.7177569E-04	
23	3.1634858E-03	-8.5308512E-04	
24	2.9948535E-03	-8.3302225E-04	
25	2.8303582E-03	-8.1174069E-04	
26	2.6702288E-03	-7.8938515E-04	
27	2.5146674E-03	-7.6609184E-04	
28	2.3638469E-03	-7.4198850E-04	
29	2.2179180E-03	-7.1719542E-04	
30	2.0770072E-03	-6.9182542E-04	
31	1.9412192E-03	-6.6598438E-04	
32	1.8106388E-03	-6.3977187E-04	
33	1.6853297E-03	-6.1328098E-04	
34	1.5653392E-03	-5.8659961E-04	
35	1.4506970E-03	-5.5981043E-04	
36	1.3414170E-03	-5.3299141E-04	
37	1.2374980E-03	-5.0621642E-04	
38	1.1389233E-03	-4.7955520E-04	
39	1.0456639E-03	-4.5307461E-04	
40	9.5767720E-04	-4.2683851E-04	
41	8.7490811E-04	-4.0090839E-04	
42	7.9728947E-04	-3.7534381E-04	
43	7.2474235E-04	-3.5020279E-04	
44	6.5717632E-04	-3.2554228E-04	
45	5.9448995E-04	-3.0141871E-04	
46	5.3656964E-04	-2.7788786E-04	
47	4.8329154E-04	-2.5500600E-04	
48	4.3452019E-04	-2.3282981E-04	
49	3.9010873E-04	-2.1141690E-04	
50	3.4989882E-04	-1.9082618E-04	
51	3.1371963E-04	-1.7111789E-04	
52	2.8138792E-04	-1.5235387E-04	
53	2.5271188E-04	-1.3459157E-04	
54	2.2748333E-04	-1.1787067E-04	
55	2.0549212E-04	-1.0222214E-04	
56	1.8652175E-04	-8.7664381E-05	
57	1.7035317E-04	-7.4204588E-05	
58	1.5676685E-04	-6.1840764E-05	
59	1.4554442E-04	-5.0563605E-05	
60	1.3646996E-04	-4.0358204E-05	
61	1.2933096E-04	-3.1205602E-05	
62	1.2391898E-04	-2.3084186E-05	
63	1.2003178E-04	-1.5945310E-05	
64	1.1748030E-04	-9.7146687E-06	
65	1.1609025E-04	-4.3189574E-06	
66	1.1570185E-04	3.1365992E-07	
67	1.1616951E-04	4.2531537E-06	
68	1.1736142E-04	7.5672914E-06	
69	1.1915908E-04	1.0321355E-05	
70	1.2145679E-04	1.2577907E-05	
71	1.2416106E-04	1.4396601E-05	
72	1.2719001E-04	1.5834026E-05	
73	1.3047281E-04	1.6943588E-05	

74	1.3394893E-04	1.7775413E-05
75	1.3756758E-04	1.8376280E-05
76	1.4128694E-04	1.8789570E-05
77	1.4507356E-04	1.9055226E-05
78	1.4890162E-04	1.9209734E-05
79	1.5275225E-04	1.9286105E-05
80	1.5661282E-04	1.9313870E-05
81	1.6047648E-04	1.9319074E-05

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|                PARATIEPLUS(TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION *Build date:Jul 11, 2017*                |
|                                                                                                                                            |
|                                                                                                                                            |
|                NewProject.BaseDesignSection_28.SISMICASTR_l817                                                                            |
|                Exe Time :24 May 2018  18:25:49                                                                                              |
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New Project

STRESS RESULTS FOR GROUP NO. 1

0\_L  
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 81  
CURRENT TIME IS 4.0000

HARDENING 2D SOIL ELEMENT

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

EL * FACTOR	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
1 D	0.000	-7.3475E-03	0.000	0.000	0.000	0.000	ACTIVE	0.000	0.000	0.000	
1.000	1.000	0.000	0.000	0.000	Ug5_2_8_L_0						
2 D	0.4689	-7.1522E-03	2.215	0.5515	2.215	1.603	ACTIVE	0.000	-0.2000	1.793	
1.000	1.000	2.345	0.000	0.000	Ug5_2_8_L_0						
3 D	0.9399	-6.9569E-03	4.471	1.113	4.471	3.119	ACTIVE	0.000	-0.4000	3.586	
1.000	1.000	4.699	0.000	0.000	Ug5_2_8_L_0						
4 D	1.413	-6.7615E-03	6.779	1.688	6.779	4.509	ACTIVE	0.000	-0.6000	5.379	
1.000	1.000	7.067	0.000	0.000	Ug5_2_8_L_0						
5 D	1.889	-6.5662E-03	9.125	2.272	9.125	5.780	ACTIVE	0.000	-0.8000	7.172	
1.000	1.000	9.444	0.000	0.000	Ug5_2_8_L_0						
6 D	2.365	-6.3709E-03	11.49	2.861	11.49	6.958	ACTIVE	0.000	-1.000	8.966	
1.000	1.000	11.83	0.000	0.000	Ug5_2_8_L_0						
7 D	2.842	-6.1757E-03	13.85	3.449	13.85	8.073	ACTIVE	0.000	-1.200	10.76	
1.000	1.000	14.21	0.000	0.000	Ug5_2_8_L_0						
8 D	3.323	-5.9806E-03	16.32	4.064	16.32	9.145	ACTIVE	0.000	-1.400	12.55	
1.000	1.000	16.62	0.000	0.000	Ug5_2_8_L_0						
9 D	3.807	-5.7856E-03	18.83	4.689	18.83	10.19	ACTIVE	0.000	-1.600	14.34	
1.000	1.000	19.03	0.000	0.000	Ug5_2_8_L_0						
10 D	4.280	-5.5908E-03	21.13	5.260	21.13	11.22	ACTIVE	0.000	-1.800	16.14	
1.000	1.000	21.40	0.000	0.000	Ug5_2_8_L_0						
11 D	4.759	-5.3964E-03	23.55	5.865	23.55	12.23	ACTIVE	0.000	-2.000	17.93	
1.000	1.000	23.80	0.000	0.000	Ug5_2_8_L_0						
12 D	5.237	-5.2024E-03	25.95	6.461	25.95	13.24	ACTIVE	0.000	-2.200	19.72	
1.000	1.000	26.18	0.000	0.000	Ug5_2_8_L_0						
13 D	5.707	-5.0091E-03	28.19	7.020	28.19	14.24	ACTIVE	0.000	-2.400	21.52	
1.000	1.000	28.54	0.000	0.000	Ug5_2_8_L_0						
14 D	6.183	-4.8164E-03	30.55	7.606	30.55	15.24	ACTIVE	0.000	-2.600	23.31	
1.000	1.000	30.92	0.000	0.000	Ug5_2_8_L_0						
15 D	6.658	-4.6248E-03	32.88	8.187	32.88	16.23	ACTIVE	0.000	-2.800	25.10	
1.000	1.000	33.29	0.000	0.000	Ug5_2_8_L_0						
16 D	7.132	-4.4344E-03	35.20	8.765	35.20	17.23	ACTIVE	0.000	-3.000	26.90	
1.000	1.000	35.66	0.000	0.000	Ug5_2_8_L_0						
17 D	7.601	-4.2456E-03	37.42	9.317	37.42	18.22	ACTIVE	0.000	-3.200	28.69	
1.000	1.000	38.01	0.000	0.000	Ug5_2_8_L_0						
18 D	8.075	-4.0586E-03	39.72	9.890	39.72	19.21	ACTIVE	0.000	-3.400	30.48	
1.000	1.000	40.37	0.000	0.000	Ug5_2_8_L_0						
19 D	8.547	-3.8737E-03	42.01	10.46	42.01	20.21	ACTIVE	0.000	-3.600	32.28	
1.000	1.000	42.74	0.000	0.000	Ug5_2_8_L_0						
20 D	9.016	-3.6915E-03	44.22	11.01	44.22	21.20	ACTIVE	0.000	-3.800	34.07	
1.000	1.000	45.08	0.000	0.000	Ug5_2_8_L_0						
21 D	9.488	-3.5121E-03	46.50	11.58	46.50	22.19	ACTIVE	0.000	-4.000	35.86	
1.000	1.000	47.44	0.000	0.000	Ug5_2_8_L_0						
22 D	9.960	-3.3360E-03	48.77	12.14	48.77	23.18	ACTIVE	0.000	-4.200	37.66	
1.000	1.000	49.80	0.000	0.000	Ug5_2_8_L_0						
23 D	10.43	-3.1635E-03	50.98	12.69	50.98	24.18	ACTIVE	0.000	-4.400	39.45	
1.000	1.000	52.14	0.000	0.000	Ug5_2_8_L_0						
24 D	10.90	-2.9949E-03	53.24	13.26	53.24	25.17	ACTIVE	0.000	-4.600	41.24	
1.000	1.000	54.50	0.000	0.000	Ug5_2_8_L_0						
25 D	11.37	-2.8304E-03	55.51	13.82	55.51	26.17	ACTIVE	0.000	-4.800	43.03	
1.000	1.000	56.86	0.000	0.000	Ug5_2_8_L_0						
26 D	11.84	-2.6702E-03	57.76	14.38	57.76	27.16	ACTIVE	0.000	-5.000	44.83	
1.000	1.000	59.21	0.000	0.000	Ug5_2_8_L_0						
27 D	12.31	-2.5147E-03	59.96	14.93	59.96	28.16	ACTIVE	0.000	-5.200	46.62	
1.000	1.000	61.55	0.000	0.000	Ug5_2_8_L_0						
28 D	12.78	-2.3638E-03	62.21	15.49	62.21	29.16	ACTIVE	0.000	-5.400	48.41	
1.000	1.000	63.90	0.000	0.000	Ug5_2_8_L_0						
29 D	13.25	-2.2179E-03	64.46	16.05	64.46	30.15	ACTIVE	0.000	-5.600	50.21	
1.000	1.000	66.26	0.000	0.000	Ug5_2_8_L_0						
30 D	13.72	-2.0770E-03	66.66	16.60	66.66	31.15	ACTIVE	0.000	-5.800	52.00	
1.000	1.000	68.60	0.000	0.000	Ug5_2_8_L_0						
31 D	14.19	-1.9412E-03	68.91	17.16	68.91	32.15	ACTIVE	0.000	-6.000	53.79	
1.000	1.000	70.95	0.000	0.000	Ug5_2_8_L_0						
32 D	14.66	-1.8106E-03	71.15	17.72	71.15	33.15	ACTIVE	0.000	-6.200	55.59	
1.000	1.000	73.30	0.000	0.000	Ug5_2_8_L_0						
33 D	15.13	-1.6853E-03	73.35	18.26	73.35	34.15	ACTIVE	0.000	-6.400	57.38	



1.000	1.000	75.64	0.000	0.000	Ug5_2_8_L_0					
34 D	15.60	-1.5653E-03	75.59	18.82	75.59	35.15	ACTIVE	0.000	-6.600	59.17
1.000	1.000	77.99	0.000	0.000	Ug5_2_8_L_0					
35 D	16.07	-1.4507E-03	77.83	19.38	77.83	36.15	ACTIVE	0.000	-6.800	60.97
1.000	1.000	80.34	0.000	0.000	Ug5_2_8_L_0					
36 D	16.54	-1.3414E-03	80.06	19.94	80.06	37.16	ACTIVE	0.000	-7.000	62.76
1.000	1.000	82.69	0.000	0.000	Ug5_2_8_L_0					
37 D	17.01	-1.2375E-03	82.26	20.48	82.26	38.16	ACTIVE	0.000	-7.200	64.55
1.000	1.000	85.03	0.000	0.000	Ug5_2_8_L_0					
38 D	17.48	-1.1389E-03	84.49	21.04	84.49	39.16	ACTIVE	0.000	-7.400	66.34
1.000	1.000	87.38	0.000	0.000	Ug5_2_8_L_0					
39 D	17.95	-1.0457E-03	86.73	21.59	86.73	40.17	ACTIVE	0.000	-7.600	68.14
1.000	1.000	89.73	0.000	0.000	Ug5_2_8_L_0					
40 D	18.41	-9.5768E-04	88.92	22.14	88.92	41.17	ACTIVE	0.000	-7.800	69.93
1.000	1.000	92.07	0.000	0.000	Ug5_2_8_L_0					
41 D	18.88	-8.7491E-04	91.15	22.70	91.15	42.18	ACTIVE	0.000	-8.000	71.72
1.000	1.000	94.42	0.000	0.000	Ug5_2_8_L_0					
42 D	19.35	-7.9729E-04	93.38	23.25	93.38	43.19	ACTIVE	0.000	-8.200	73.52
1.000	1.000	96.77	0.000	0.000	Ug5_2_8_L_0					
43 D	19.82	-7.2474E-04	95.58	23.80	95.58	44.19	ACTIVE	0.000	-8.400	75.31
1.000	1.000	99.11	0.000	0.000	Ug5_2_8_L_0					
44 D	20.29	-6.5718E-04	97.81	24.35	97.81	45.20	ACTIVE	0.000	-8.600	77.10
1.000	1.000	101.5	0.000	0.000	Ug5_2_8_L_0					
45 D	20.76	-5.9449E-04	100.0	24.91	100.0	46.21	ACTIVE	0.000	-8.800	78.90
1.000	1.000	103.8	0.000	0.000	Ug5_2_8_L_0					
46 D	21.23	-5.3657E-04	102.3	25.46	102.3	47.22	ACTIVE	0.000	-9.000	80.69
1.000	1.000	106.2	0.000	0.000	Ug5_2_8_L_0					
47 D	21.70	-4.8329E-04	104.5	26.01	104.5	48.23	ACTIVE	0.000	-9.200	82.48
1.000	1.000	108.5	0.000	0.000	Ug5_2_8_L_0					
48 D	22.17	-4.3452E-04	106.7	26.57	106.7	49.24	ACTIVE	0.000	-9.400	84.28
1.000	1.000	110.8	0.000	0.000	Ug5_2_8_L_0					
49 D	22.64	-3.9011E-04	108.9	27.12	108.9	50.26	ACTIVE	0.000	-9.600	86.07
1.000	1.000	113.2	0.000	0.000	Ug5_2_8_L_0					
50 D	23.11	-3.4990E-04	111.1	27.67	111.1	51.27	ACTIVE	0.000	-9.800	87.86
1.000	1.000	115.5	0.000	0.000	Ug5_2_8_L_0					
51 D	23.59	-3.1372E-04	113.3	28.29	113.3	52.28	UL-RL	7.5213E+04	-10.00	89.66
1.000	1.000	117.9	0.000	0.000	Ug5_2_8_L_0					
52 D	24.66	-2.8139E-04	115.6	31.85	115.6	53.29	UL-RL	7.5213E+04	-10.20	91.45
1.000	1.000	123.3	0.000	0.000	Ug5_2_8_L_0					
53 D	25.67	-2.5271E-04	117.8	35.10	117.8	54.31	UL-RL	7.5213E+04	-10.40	93.24
1.000	1.000	128.3	0.000	0.000	Ug5_2_8_L_0					
54 D	26.62	-2.2748E-04	120.0	38.08	120.0	55.32	UL-RL	7.5213E+04	-10.60	95.03
1.000	1.000	133.1	0.000	0.000	Ug5_2_8_L_0					
55 D	27.52	-2.0549E-04	122.2	40.78	122.2	56.34	UL-RL	7.5213E+04	-10.80	96.83
1.000	1.000	137.6	0.000	0.000	Ug5_2_8_L_0					
56 D	28.37	-1.8652E-04	124.4	43.24	124.4	57.35	UL-RL	7.5213E+04	-11.00	98.62
1.000	1.000	141.9	0.000	0.000	Ug5_2_8_L_0					
57 D	29.18	-1.7035E-04	126.6	45.47	126.6	58.37	UL-RL	7.5213E+04	-11.20	100.4
1.000	1.000	145.9	0.000	0.000	Ug5_2_8_L_0					
58 D	29.94	-1.5677E-04	128.8	47.49	128.8	59.39	UL-RL	7.5213E+04	-11.40	102.2
1.000	1.000	149.7	0.000	0.000	Ug5_2_8_L_0					
59 D	30.66	-1.4554E-04	131.1	49.32	131.1	60.40	UL-RL	7.5213E+04	-11.60	104.0
1.000	1.000	153.3	0.000	0.000	Ug5_2_8_L_0					
60 D	31.35	-1.3647E-04	133.3	50.97	133.3	61.42	UL-RL	7.5213E+04	-11.80	105.8
1.000	1.000	156.8	0.000	0.000	Ug5_2_8_L_0					
61 D	32.01	-1.2933E-04	135.5	52.48	135.5	62.44	UL-RL	7.5213E+04	-12.00	107.6
1.000	1.000	160.1	0.000	0.000	Ug5_2_8_L_0					
62 D	34.08	-1.2392E-04	137.5	61.02	137.5	63.36	UL-RL	3.6008E+04	-12.20	109.4
1.000	1.000	170.4	0.000	0.000	Ug6_741_743_L_0					
63 D	34.65	-1.2003E-04	139.5	62.08	139.5	64.28	UL-RL	3.6008E+04	-12.40	111.2
1.000	1.000	173.3	0.000	0.000	Ug6_741_743_L_0					
64 D	35.21	-1.1748E-04	141.5	63.10	141.5	65.20	UL-RL	3.6008E+04	-12.60	113.0
1.000	1.000	176.1	0.000	0.000	Ug6_741_743_L_0					
65 D	35.77	-1.1609E-04	143.5	64.07	143.5	66.12	UL-RL	3.6008E+04	-12.80	114.8
1.000	1.000	178.8	0.000	0.000	Ug6_741_743_L_0					
66 D	36.31	-1.1570E-04	145.5	65.01	145.5	67.04	UL-RL	3.6008E+04	-13.00	116.6
1.000	1.000	181.6	0.000	0.000	Ug6_741_743_L_0					
67 D	36.85	-1.1617E-04	147.5	65.92	147.5	67.96	UL-RL	3.6008E+04	-13.20	118.3
1.000	1.000	184.3	0.000	0.000	Ug6_741_743_L_0					
68 D	37.39	-1.1736E-04	149.4	66.80	149.4	68.88	UL-RL	3.6008E+04	-13.40	120.1
1.000	1.000	186.9	0.000	0.000	Ug6_741_743_L_0					
69 D	37.92	-1.1916E-04	151.4	67.66	151.4	69.80	UL-RL	3.6008E+04	-13.60	121.9
1.000	1.000	189.6	0.000	0.000	Ug6_741_743_L_0					
70 D	38.45	-1.2146E-04	153.4	68.50	153.4	70.72	UL-RL	3.6008E+04	-13.80	123.7
1.000	1.000	192.2	0.000	0.000	Ug6_741_743_L_0					
71 D	38.97	-1.2416E-04	155.4	69.34	155.4	71.64	UL-RL	3.6008E+04	-14.00	125.5
1.000	1.000	194.9	0.000	0.000	Ug6_741_743_L_0					
72 D	39.49	-1.2719E-04	157.3	70.16	157.3	72.56	UL-RL	3.6008E+04	-14.20	127.3
1.000	1.000	197.5	0.000	0.000	Ug6_741_743_L_0					
73 D	40.01	-1.3047E-04	159.3	70.97	159.3	73.49	UL-RL	3.6008E+04	-14.40	129.1
1.000	1.000	200.1	0.000	0.000	Ug6_741_743_L_0					
74 D	40.54	-1.3395E-04	161.3	71.78	161.3	74.41	UL-RL	3.6008E+04	-14.60	130.9
1.000	1.000	202.7	0.000	0.000	Ug6_741_743_L_0					
75 D	41.05	-1.3757E-04	163.3	72.58	163.3	75.33	UL-RL	3.6008E+04	-14.80	132.7
1.000	1.000	205.3	0.000	0.000	Ug6_741_743_L_0					
76 D	41.57	-1.4129E-04	165.3	73.39	165.3	76.25	UL-RL	3.6008E+04	-15.00	134.5
1.000	1.000	207.9	0.000	0.000	Ug6_741_743_L_0					
77 D	42.09	-1.4507E-04	167.2	74.19	167.2	77.18	UL-RL	3.6008E+04	-15.20	136.3
1.000	1.000	210.5	0.000	0.000	Ug6_741_743_L_0					
78 D	42.61	-1.4890E-04	169.2	74.98	169.2	78.10	UL-RL	3.6008E+04	-15.40	138.1
1.000	1.000	213.1	0.000	0.000	Ug6_741_743_L_0					

79 D	43.13	-1.5275E-04	171.2	75.78	171.2	79.03	UL-RL	3.6008E+04	-15.60	139.9
1.000	1.000	215.6	0.000	0.000	Ug6_741_743_L_0					
80 D	43.65	-1.5661E-04	173.2	76.58	173.2	79.95	UL-RL	3.6008E+04	-15.80	141.7
1.000	1.000	218.2	0.000	0.000	Ug6_741_743_L_0					
81 D	22.08	-1.6048E-04	175.2	77.38	175.2	80.88	UL-RL	3.6008E+04	-16.00	143.4
1.000	1.000	220.8	0.000	0.000	Ug6_741_743_L_0					

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION *Build date:Jul 11, 2017*          |
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New Project

STRESS RESULTS FOR GROUP NO. 2

0\_R :  
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 81  
CURRENT TIME IS 4.0000

HARDENING 2D SOIL ELEMENT

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

EL * FACTOR	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
1	0.000	--	--	--	--	--	REMOVED	--	0.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
2	0.000	--	--	--	--	--	REMOVED	--	-0.2000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
3	0.000	--	--	--	--	--	REMOVED	--	-0.4000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
4	0.000	--	--	--	--	--	REMOVED	--	-0.6000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
5	0.000	--	--	--	--	--	REMOVED	--	-0.8000	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	--	-1.200	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
8	0.000	--	--	--	--	--	REMOVED	--	-1.400	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
9	0.000	--	--	--	--	--	REMOVED	--	-1.600	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
10	0.000	--	--	--	--	--	REMOVED	--	-1.800	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
11	0.000	--	--	--	--	--	REMOVED	--	-2.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
12	0.000	--	--	--	--	--	REMOVED	--	-2.200	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
13	0.000	--	--	--	--	--	REMOVED	--	-2.400	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
14	0.000	--	--	--	--	--	REMOVED	--	-2.600	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
15	0.000	--	--	--	--	--	REMOVED	--	-2.800	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
16 D	0.000	4.4344E-03	0.000	0.000	30.00	36.37	PASSIVE	0.000	-3.000	0.000	
1.000	1.000	0.000	0.000	0.000	Ug5_2_8_L_0						
17 D	2.858	4.2456E-03	1.793	12.08	32.00	36.17	PASSIVE	0.000	-3.200	2.207	
1.000	1.000	14.29	0.000	0.000	Ug5_2_8_L_0						
18 D	5.716	4.0586E-03	3.586	24.16	34.00	35.99	PASSIVE	0.000	-3.400	4.414	
1.000	1.000	28.58	0.000	0.000	Ug5_2_8_L_0						
19 D	8.573	3.8737E-03	5.379	36.25	36.00	36.25	PASSIVE	0.000	-3.600	6.621	
1.000	1.000	42.87	0.000	0.000	Ug5_2_8_L_0						
20 D	11.43	3.6915E-03	7.172	48.33	38.00	48.33	PASSIVE	0.000	-3.800	8.828	
1.000	1.000	57.16	0.000	0.000	Ug5_2_8_L_0						
21 D	14.29	3.5121E-03	8.966	60.41	40.00	60.41	PASSIVE	0.000	-4.000	11.03	
1.000	1.000	71.44	0.000	0.000	Ug5_2_8_L_0						
22 D	15.84	3.3360E-03	10.76	65.98	42.00	65.98	V-C	1.2465E+04	-4.200	13.24	
1.000	1.000	79.22	0.000	0.000	Ug5_2_8_L_0						
23 D	15.98	3.1635E-03	12.55	64.48	44.00	64.48	V-C	1.2465E+04	-4.400	15.45	
1.000	1.000	79.92	0.000	0.000	Ug5_2_8_L_0						
24 D	16.14	2.9949E-03	14.34	63.03	46.00	63.03	V-C	1.2465E+04	-4.600	17.66	
1.000	1.000	80.68	0.000	0.000	Ug5_2_8_L_0						
25 D	16.30	2.8304E-03	16.14	61.64	48.00	61.64	V-C	1.2465E+04	-4.800	19.86	
1.000	1.000	81.50	0.000	0.000	Ug5_2_8_L_0						
26 D	16.48	2.6702E-03	17.93	60.31	50.00	60.31	V-C	1.2465E+04	-5.000	22.07	
1.000	1.000	82.38	0.000	0.000	Ug5_2_8_L_0						
27 D	16.67	2.5147E-03	19.72	59.05	52.00	59.05	V-C	1.2465E+04	-5.200	24.28	
1.000	1.000	83.33	0.000	0.000	Ug5_2_8_L_0						
28 D	16.87	2.3638E-03	21.52	57.86	54.00	57.86	V-C	1.2465E+04	-5.400	26.48	
1.000	1.000	84.35	0.000	0.000	Ug5_2_8_L_0						
29 D	17.09	2.2179E-03	23.31	56.75	56.00	56.75	V-C	1.2465E+04	-5.600	28.69	
1.000	1.000	85.44	0.000	0.000	Ug5_2_8_L_0						
30 D	17.32	2.0770E-03	25.10	55.71	58.00	55.71	V-C	1.2465E+04	-5.800	30.90	
1.000	1.000	86.61	0.000	0.000	Ug5_2_8_L_0						
31 D	17.57	1.9412E-03	26.90	54.76	60.00	54.76	V-C	1.2465E+04	-6.000	33.10	
1.000	1.000	87.86	0.000	0.000	Ug5_2_8_L_0						
32 D	17.84	1.8106E-03	28.69	53.88	62.00	53.88	V-C	1.2465E+04	-6.200	35.31	
1.000	1.000	89.19	0.000	0.000	Ug5_2_8_L_0						
33 D	18.12	1.6853E-03	30.48	53.07	64.00	53.07	V-C	1.2465E+04	-6.400	37.52	

1.000	1.000	90.59	0.000	0.000	Ug5_2_8_L_0					
34 D	18.42	1.5653E-03	32.28	52.35	66.00	52.35	V-C	1.2465E+04	-6.600	39.72
1.000	1.000	92.08	0.000	0.000	Ug5_2_8_L_0					
35 D	18.73	1.4507E-03	34.07	51.72	68.00	51.72	V-C	1.2465E+04	-6.800	41.93
1.000	1.000	93.65	0.000	0.000	Ug5_2_8_L_0					
36 D	19.06	1.3414E-03	35.86	51.16	70.00	51.16	V-C	1.2465E+04	-7.000	44.14
1.000	1.000	95.29	0.000	0.000	Ug5_2_8_L_0					
37 D	19.40	1.2375E-03	37.66	50.68	72.00	50.68	V-C	1.2465E+04	-7.200	46.34
1.000	1.000	97.02	0.000	0.000	Ug5_2_8_L_0					
38 D	19.77	1.1389E-03	39.45	50.28	74.00	50.28	V-C	1.2465E+04	-7.400	48.55
1.000	1.000	98.83	0.000	0.000	Ug5_2_8_L_0					
39 D	20.14	1.0457E-03	41.24	49.96	76.00	49.96	V-C	1.2465E+04	-7.600	50.76
1.000	1.000	100.7	0.000	0.000	Ug5_2_8_L_0					
40 D	20.54	9.5768E-04	43.03	49.72	78.00	49.72	V-C	1.2465E+04	-7.800	52.97
1.000	1.000	102.7	0.000	0.000	Ug5_2_8_L_0					
41 D	20.95	8.7491E-04	44.83	49.56	80.00	49.56	V-C	1.2465E+04	-8.000	55.17
1.000	1.000	104.7	0.000	0.000	Ug5_2_8_L_0					
42 D	21.37	7.9729E-04	46.62	49.47	82.00	49.47	V-C	1.2465E+04	-8.200	57.38
1.000	1.000	106.8	0.000	0.000	Ug5_2_8_L_0					
43 D	21.81	7.2474E-04	48.41	49.45	84.00	49.45	V-C	1.2465E+04	-8.400	59.59
1.000	1.000	109.0	0.000	0.000	Ug5_2_8_L_0					
44 D	22.26	6.5718E-04	50.21	49.51	86.00	49.51	V-C	1.2465E+04	-8.600	61.79
1.000	1.000	111.3	0.000	0.000	Ug5_2_8_L_0					
45 D	22.73	5.9449E-04	52.00	49.64	88.00	49.64	V-C	1.2465E+04	-8.800	64.00
1.000	1.000	113.6	0.000	0.000	Ug5_2_8_L_0					
46 D	23.21	5.3657E-04	53.79	49.84	90.00	49.84	V-C	1.2465E+04	-9.000	66.21
1.000	1.000	116.0	0.000	0.000	Ug5_2_8_L_0					
47 D	23.70	4.8329E-04	55.59	50.10	92.00	50.10	V-C	1.2465E+04	-9.200	68.41
1.000	1.000	118.5	0.000	0.000	Ug5_2_8_L_0					
48 D	24.21	4.3452E-04	57.38	50.43	94.00	50.43	V-C	1.2465E+04	-9.400	70.62
1.000	1.000	121.0	0.000	0.000	Ug5_2_8_L_0					
49 D	24.73	3.9011E-04	59.17	50.82	96.00	50.82	V-C	1.2465E+04	-9.600	72.83
1.000	1.000	123.6	0.000	0.000	Ug5_2_8_L_0					
50 D	25.26	3.4990E-04	60.97	51.27	98.00	51.27	V-C	1.2465E+04	-9.800	75.03
1.000	1.000	126.3	0.000	0.000	Ug5_2_8_L_0					
51 D	25.80	3.1372E-04	62.76	51.77	100.00	51.77	V-C	1.2465E+04	-10.000	77.24
1.000	1.000	129.0	0.000	0.000	Ug5_2_8_L_0					
52 D	26.36	2.8139E-04	64.55	52.33	102.0	52.33	V-C	1.2465E+04	-10.200	79.45
1.000	1.000	131.8	0.000	0.000	Ug5_2_8_L_0					
53 D	26.92	2.5271E-04	66.34	52.94	104.0	52.94	V-C	1.2465E+04	-10.400	81.66
1.000	1.000	134.6	0.000	0.000	Ug5_2_8_L_0					
54 D	27.48	2.2748E-04	68.14	53.56	106.0	53.61	UL-RL	3.7394E+04	-10.600	83.86
1.000	1.000	137.4	0.000	0.000	Ug5_2_8_L_0					
55 D	27.95	2.0549E-04	69.93	53.69	108.0	54.60	UL-RL	3.7394E+04	-10.800	86.07
1.000	1.000	139.8	0.000	0.000	Ug5_2_8_L_0					
56 D	28.45	1.8652E-04	71.72	53.95	110.0	55.58	UL-RL	3.7394E+04	-11.000	88.28
1.000	1.000	142.2	0.000	0.000	Ug5_2_8_L_0					
57 D	28.96	1.7035E-04	73.52	54.33	112.0	56.56	UL-RL	3.7394E+04	-11.200	90.48
1.000	1.000	144.8	0.000	0.000	Ug5_2_8_L_0					
58 D	29.50	1.5677E-04	75.31	54.81	114.0	57.55	UL-RL	3.7394E+04	-11.400	92.69
1.000	1.000	147.5	0.000	0.000	Ug5_2_8_L_0					
59 D	30.06	1.4554E-04	77.10	55.38	116.0	58.53	UL-RL	3.7394E+04	-11.600	94.90
1.000	1.000	150.3	0.000	0.000	Ug5_2_8_L_0					
60 D	30.63	1.3647E-04	78.90	56.04	118.0	59.52	UL-RL	3.7394E+04	-11.800	97.10
1.000	1.000	153.1	0.000	0.000	Ug5_2_8_L_0					
61 D	31.22	1.2933E-04	80.69	56.78	120.0	60.50	UL-RL	3.7394E+04	-12.000	99.31
1.000	1.000	156.1	0.000	0.000	Ug5_2_8_L_0					
62 D	31.46	1.2392E-04	82.28	55.76	121.8	61.39	UL-RL	2.8119E+04	-12.200	101.5
1.000	1.000	157.3	0.000	0.000	Ug6_741_743_L_0					
63 D	32.05	1.2003E-04	83.88	56.55	123.6	62.28	UL-RL	2.8119E+04	-12.400	103.7
1.000	1.000	160.3	0.000	0.000	Ug6_741_743_L_0					
64 D	32.66	1.1748E-04	85.47	57.37	125.4	63.16	UL-RL	2.8119E+04	-12.600	105.9
1.000	1.000	163.3	0.000	0.000	Ug6_741_743_L_0					
65 D	33.27	1.1609E-04	87.06	58.22	127.2	64.05	UL-RL	2.8119E+04	-12.800	108.1
1.000	1.000	166.4	0.000	0.000	Ug6_741_743_L_0					
66 D	33.89	1.1570E-04	88.66	59.11	129.0	64.94	UL-RL	2.8119E+04	-13.000	110.3
1.000	1.000	169.5	0.000	0.000	Ug6_741_743_L_0					
67 D	34.51	1.1617E-04	90.25	60.01	130.8	65.83	UL-RL	2.8119E+04	-13.200	112.6
1.000	1.000	172.6	0.000	0.000	Ug6_741_743_L_0					
68 D	35.14	1.1736E-04	91.84	60.94	132.6	66.72	UL-RL	2.8119E+04	-13.400	114.8
1.000	1.000	175.7	0.000	0.000	Ug6_741_743_L_0					
69 D	35.77	1.1916E-04	93.43	61.88	134.4	67.60	UL-RL	2.8119E+04	-13.600	117.0
1.000	1.000	178.9	0.000	0.000	Ug6_741_743_L_0					
70 D	36.40	1.2146E-04	95.03	62.84	136.2	68.49	UL-RL	2.8119E+04	-13.800	119.2
1.000	1.000	182.0	0.000	0.000	Ug6_741_743_L_0					
71 D	37.04	1.2416E-04	96.62	63.81	138.0	69.38	UL-RL	2.8119E+04	-14.000	121.4
1.000	1.000	185.2	0.000	0.000	Ug6_741_743_L_0					
72 D	37.67	1.2719E-04	98.21	64.79	139.8	70.27	UL-RL	2.8119E+04	-14.200	123.6
1.000	1.000	188.4	0.000	0.000	Ug6_741_743_L_0					
73 D	38.31	1.3047E-04	99.81	65.77	141.6	71.16	UL-RL	2.8119E+04	-14.400	125.8
1.000	1.000	191.6	0.000	0.000	Ug6_741_743_L_0					
74 D	38.95	1.3395E-04	101.4	66.76	143.4	72.05	UL-RL	2.8119E+04	-14.600	128.0
1.000	1.000	194.8	0.000	0.000	Ug6_741_743_L_0					
75 D	39.59	1.3757E-04	103.0	67.75	145.2	72.94	UL-RL	2.8119E+04	-14.800	130.2
1.000	1.000	198.0	0.000	0.000	Ug6_741_743_L_0					
76 D	40.23	1.4129E-04	104.6	68.74	147.0	73.84	UL-RL	2.8119E+04	-15.000	132.4
1.000	1.000	201.2	0.000	0.000	Ug6_741_743_L_0					
77 D	40.87	1.4507E-04	106.2	69.74	148.8	74.73	UL-RL	2.8119E+04	-15.200	134.6
1.000	1.000	204.4	0.000	0.000	Ug6_741_743_L_0					
78 D	41.51	1.4890E-04	107.8	70.73	150.6	75.62	UL-RL	2.8119E+04	-15.400	136.8
1.000	1.000	207.6	0.000	0.000	Ug6_741_743_L_0					

79 D	42.15	1.5275E-04	109.4	71.73	152.4	76.51	UL-RL	2.8119E+04	-15.60	139.0
1.000	1.000	210.8	0.000	0.000	Ug6_741_743_L_0					
80 D	42.79	1.5661E-04	111.0	72.73	154.2	77.40	UL-RL	2.8119E+04	-15.80	141.2
1.000	1.000	214.0	0.000	0.000	Ug6_741_743_L_0					
81 D	21.72	1.6048E-04	112.6	73.72	156.0	78.29	UL-RL	2.8119E+04	-16.00	143.4
1.000	1.000	217.2	0.000	0.000	Ug6_741_743_L_0					



70	-14.359	14.359	-14.212	11.341
71	-12.426	12.426	-11.341	8.8555
72	-10.607	10.607	-8.8555	6.7341
73	-8.9044	8.9044	-6.7341	4.9532
74	-7.3206	7.3206	-4.9532	3.4891
75	-5.8569	5.8569	-3.4891	2.3177
76	-4.5145	4.5145	-2.3177	1.4148
77	-3.2938	3.2938	-1.4148	0.75605
78	-2.1954	2.1954	-0.75605	0.31698
79	-1.2193	1.2193	-0.31698	7.31252E-02
80	-0.36561	0.36561	-7.31252E-02	1.07692E-14

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ITER      0  RNORM = 0.000      RMNORM= 0.000
            RINORM=0.2213E+06  RIMNOR=0.2031E+07
            RENORM= 1039.      REMNOR=0.1376E-18  RATIO =0.6851E-01  TOLER =0.1000E-03  NOT CONVERGED
            RFMAX = 64.11      RMMAX = 188.4
            RTSMAL=0.1000E-03  RMSMAL=0.1000E-02
            RDT  =0.2213E+06  RDR  =0.2031E+07
            RATIO=0.6851E-01  RATIO= 0.000
            MAX UN= 14.13      IEQ= 41 NODE      21 DOF  1  Y-DISPL.F
            MIN UN=-.1182     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=0.2213E+06  RIMNOR=0.2031E+07
            RENORM= 284.1      REMNOR=0.2236E-18  RATIO =0.3583E-01  TOLER =0.1000E-03  NOT CONVERGED
            RFMAX = 64.11      RMMAX = 188.4
            RTSMAL=0.1000E-03  RMSMAL=0.1000E-02
            RDT  =0.2213E+06  RDR  =0.2031E+07
            RATIO=0.3583E-01  RATIO= 0.000
            MAX UN= 3.995      IEQ= 51 NODE      26 DOF  1  Y-DISPL.F
            MIN UN=-.3957E-02  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=0.2213E+06  RIMNOR=0.2031E+07
            RENORM= 190.7      REMNOR=0.2830E-17  RATIO =0.2935E-01  TOLER =0.1000E-03  NOT CONVERGED
            RFMAX = 64.11      RMMAX = 188.4
            RTSMAL=0.1000E-03  RMSMAL=0.1000E-02
            RDT  =0.2213E+06  RDR  =0.2031E+07
            RATIO=0.2935E-01  RATIO= 0.000
            MAX UN= 6.776      IEQ= 53 NODE      27 DOF  1  Y-DISPL.F
            MIN UN=-1.130     IEQ= 159 NODE     80 DOF  1  Y-DISPL.F
            NO. OF CONTACT CONSTRAINT VIOLATIONS  0

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ITER      4  RNORM = 0.000      RMNORM= 0.000
            RINORM=0.2213E+06  RIMNOR=0.2031E+07
            RENORM= 3.002      REMNOR=0.1185E-17  RATIO =0.3683E-02  TOLER =0.1000E-03  NOT CONVERGED
            RFMAX = 64.11      RMMAX = 188.4
            RTSMAL=0.1000E-03  RMSMAL=0.1000E-02
            RDT  =0.2213E+06  RDR  =0.2031E+07
            RATIO=0.3683E-02  RATIO= 0.000
            MAX UN= 1.468      IEQ= 119 NODE     60 DOF  1  Y-DISPL.F
            MIN UN=-.3519E-01  IEQ= 135 NODE     68 DOF  1  Y-DISPL.F
            NO. OF CONTACT CONSTRAINT VIOLATIONS  0

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ITER      5  RNORM = 0.000      RMNORM= 0.000
            RINORM=0.2213E+06  RIMNOR=0.2031E+07
            RENORM=0.1012E-01  REMNOR=0.1172E-17  RATIO =0.2139E-03  TOLER =0.1000E-03  NOT CONVERGED
            RFMAX = 64.11      RMMAX = 188.4
            RTSMAL=0.1000E-03  RMSMAL=0.1000E-02
            RDT  =0.2213E+06  RDR  =0.2031E+07
            RATIO=0.2139E-03  RATIO= 0.000
            MAX UN=0.1009E-07  IEQ= 9 NODE      5 DOF  1  Y-DISPL.F
            MIN UN=-.4091E-01  IEQ= 137 NODE     69 DOF  1  Y-DISPL.F
            NO. OF CONTACT CONSTRAINT VIOLATIONS  0

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ITER      6  RNORM = 0.000      RMNORM= 0.000
            RINORM=0.2213E+06  RIMNOR=0.2031E+07
            RENORM=0.1067E-02  REMNOR=0.1549E-17  RATIO =0.6943E-04  TOLER =0.1000E-03  CONVERGED !
            RFMAX = 64.11      RMMAX = 188.4
            RTSMAL=0.1000E-03  RMSMAL=0.1000E-02
            RDT  =0.2213E+06  RDR  =0.2031E+07
            RATIO=0.6943E-04  RATIO= 0.000
            MAX UN=0.1451E-01  IEQ= 121 NODE     61 DOF  1  Y-DISPL.F
            MIN UN=-.8356E-08  IEQ= 7 NODE      4 DOF  1  Y-DISPL.F
            NO. OF CONTACT CONSTRAINT VIOLATIONS  0

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|                PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
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New Project
SOLUTION REACHED USING      6 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	1.9473034E-02	-2.2062447E-03	
2	1.9031785E-02	-2.2062447E-03	
3	1.8590537E-02	-2.2062382E-03	
4	1.8149291E-02	-2.2062056E-03	
5	1.7708058E-02	-2.2061144E-03	
6	1.7266853E-02	-2.2059186E-03	
7	1.6825702E-02	-2.2055592E-03	
8	1.6384645E-02	-2.2049639E-03	
9	1.5943737E-02	-2.2040473E-03	
10	1.5503054E-02	-2.2027103E-03	
11	1.5062689E-02	-2.2008407E-03	
12	1.4622761E-02	-2.1983130E-03	
13	1.4183417E-02	-2.1949885E-03	
14	1.3744829E-02	-2.1907152E-03	
15	1.3307205E-02	-2.1853282E-03	
16	1.2870784E-02	-2.1786491E-03	
17	1.2435842E-02	-2.1704865E-03	
18	1.2002700E-02	-2.1606360E-03	
19	1.1571715E-02	-2.1488800E-03	
20	1.1143290E-02	-2.1349877E-03	
21	1.0717880E-02	-2.1187155E-03	
22	1.0295982E-02	-2.0998064E-03	
23	9.8781490E-03	-2.0780299E-03	
24	9.4649723E-03	-2.0532212E-03	
25	9.0570693E-03	-2.0252813E-03	
26	8.6550708E-03	-1.9941767E-03	
27	8.2596094E-03	-1.9599402E-03	
28	7.8712990E-03	-1.9226693E-03	
29	7.4907330E-03	-1.8825282E-03	
30	7.1184638E-03	-1.8397463E-03	
31	6.7549913E-03	-1.7946120E-03	
32	6.4007572E-03	-1.7474309E-03	
33	6.0561380E-03	-1.6984906E-03	
34	5.7214601E-03	-1.6480630E-03	
35	5.3969949E-03	-1.5964041E-03	
36	5.0829645E-03	-1.5437545E-03	
37	4.7795455E-03	-1.4903410E-03	
38	4.4868664E-03	-1.4363756E-03	
39	4.2050187E-03	-1.3820584E-03	
40	3.9340540E-03	-1.3275769E-03	
41	3.6739872E-03	-1.2731072E-03	
42	3.4247993E-03	-1.2188146E-03	
43	3.1864392E-03	-1.1648545E-03	
44	2.9588256E-03	-1.1113730E-03	
45	2.7418499E-03	-1.0585079E-03	
46	2.5353738E-03	-1.0063884E-03	
47	2.3392367E-03	-9.5513732E-04	
48	2.1532532E-03	-9.0487081E-04	
49	1.9772154E-03	-8.5569923E-04	
50	1.8108943E-03	-8.0772805E-04	
51	1.6540383E-03	-7.6105755E-04	
52	1.5063745E-03	-7.1578377E-04	
53	1.3676282E-03	-6.7200473E-04	
54	1.2374743E-03	-6.2980586E-04	
55	1.1155945E-03	-5.8927820E-04	
56	1.0016458E-03	-5.5050896E-04	
57	8.9526794E-04	-5.1358425E-04	
58	7.9608343E-04	-4.7858956E-04	
59	7.0369775E-04	-4.4561027E-04	
60	6.1769926E-04	-4.1473201E-04	
61	5.3765912E-04	-3.8604111E-04	
62	4.6313116E-04	-3.5962496E-04	
63	3.9365571E-04	-3.3551033E-04	
64	3.2877645E-04	-3.1365440E-04	
65	2.6804728E-04	-2.9399844E-04	
66	2.1103530E-04	-2.7646912E-04	
67	1.5732364E-04	-2.6097970E-04	
68	1.0651404E-04	-2.4743102E-04	
69	5.8229117E-05	-2.3571408E-04	
70	1.2114029E-05	-2.2571282E-04	
71	-3.2162283E-05	-2.1730566E-04	
72	-7.4906095E-05	-2.1036642E-04	
73	-1.1639802E-04	-2.0476467E-04	



74	-1.5689217E-04	-2.0036599E-04
75	-1.9661541E-04	-1.9703223E-04
76	-2.3576660E-04	-1.9462165E-04
77	-2.7451593E-04	-1.9298906E-04
78	-3.1300419E-04	-1.9198592E-04
79	-3.5134213E-04	-1.9146022E-04
80	-3.8960974E-04	-1.9125638E-04
81	-4.2785744E-04	-1.9121525E-04



1.000	1.000	73.75	0.000	0.000	Ug5_2_8_L_0						
34 D	15.21	-5.7215E-03	78.19	19.47	78.19	35.15	ACTIVE	0.000	-6.600	56.57	
1.000	1.000	76.04	0.000	0.000	Ug5_2_8_L_0						
35 D	15.67	-5.3970E-03	80.51	20.05	80.51	36.15	ACTIVE	0.000	-6.800	58.29	
1.000	1.000	78.33	0.000	0.000	Ug5_2_8_L_0						
36 D	16.12	-5.0830E-03	82.82	20.62	82.82	37.16	ACTIVE	0.000	-7.000	60.00	
1.000	1.000	80.62	0.000	0.000	Ug5_2_8_L_0						
37 D	16.58	-4.7795E-03	85.10	21.19	85.10	38.16	ACTIVE	0.000	-7.200	61.71	
1.000	1.000	82.90	0.000	0.000	Ug5_2_8_L_0						
38 D	17.04	-4.4869E-03	87.41	21.76	87.41	39.16	ACTIVE	0.000	-7.400	63.43	
1.000	1.000	85.19	0.000	0.000	Ug5_2_8_L_0						
39 D	17.50	-4.2050E-03	89.72	22.34	89.72	40.17	ACTIVE	0.000	-7.600	65.14	
1.000	1.000	87.48	0.000	0.000	Ug5_2_8_L_0						
40 D	17.95	-3.9341E-03	92.00	22.91	92.00	41.17	ACTIVE	0.000	-7.800	66.86	
1.000	1.000	89.76	0.000	0.000	Ug5_2_8_L_0						
41 D	18.41	-3.6740E-03	94.31	23.48	94.31	42.18	ACTIVE	0.000	-8.000	68.57	
1.000	1.000	92.05	0.000	0.000	Ug5_2_8_L_0						
42 D	18.87	-3.4248E-03	96.62	24.06	96.62	43.19	ACTIVE	0.000	-8.200	70.29	
1.000	1.000	94.34	0.000	0.000	Ug5_2_8_L_0						
43 D	19.32	-3.1864E-03	98.89	24.62	98.89	44.19	ACTIVE	0.000	-8.400	72.00	
1.000	1.000	96.62	0.000	0.000	Ug5_2_8_L_0						
44 D	19.78	-2.9588E-03	101.2	25.20	101.2	45.20	ACTIVE	0.000	-8.600	73.71	
1.000	1.000	98.91	0.000	0.000	Ug5_2_8_L_0						
45 D	20.24	-2.7418E-03	103.5	25.77	103.5	46.21	ACTIVE	0.000	-8.800	75.43	
1.000	1.000	101.2	0.000	0.000	Ug5_2_8_L_0						
46 D	20.70	-2.5354E-03	105.8	26.35	105.8	47.22	ACTIVE	0.000	-9.000	77.14	
1.000	1.000	103.5	0.000	0.000	Ug5_2_8_L_0						
47 D	21.15	-2.3392E-03	108.1	26.92	108.1	48.23	UL-RL	5.6410E+04	-9.200	78.86	
1.000	1.000	105.8	0.000	0.000	Ug5_2_8_L_0						
48 D	21.61	-2.1533E-03	110.4	27.49	110.4	49.24	UL-RL	5.6410E+04	-9.400	80.57	
1.000	1.000	108.1	0.000	0.000	Ug5_2_8_L_0						
49 D	22.07	-1.9772E-03	112.7	28.07	112.7	50.26	UL-RL	5.6410E+04	-9.600	82.29	
1.000	1.000	110.4	0.000	0.000	Ug5_2_8_L_0						
50 D	22.53	-1.8109E-03	115.0	28.64	115.0	51.27	UL-RL	5.6410E+04	-9.800	84.00	
1.000	1.000	112.6	0.000	0.000	Ug5_2_8_L_0						
51 D	22.99	-1.6540E-03	117.3	29.22	117.3	52.28	UL-RL	5.6410E+04	-10.000	85.71	
1.000	1.000	114.9	0.000	0.000	Ug5_2_8_L_0						
52 D	23.44	-1.5064E-03	119.6	29.79	119.6	53.29	UL-RL	5.6410E+04	-10.200	87.43	
1.000	1.000	117.2	0.000	0.000	Ug5_2_8_L_0						
53 D	23.90	-1.3676E-03	121.9	30.36	121.9	54.31	UL-RL	5.6410E+04	-10.400	89.14	
1.000	1.000	119.5	0.000	0.000	Ug5_2_8_L_0						
54 D	24.36	-1.2375E-03	124.2	30.94	124.2	55.32	UL-RL	5.6410E+04	-10.600	90.86	
1.000	1.000	121.8	0.000	0.000	Ug5_2_8_L_0						
55 D	24.82	-1.1156E-03	126.5	31.52	126.5	56.34	UL-RL	5.6410E+04	-10.800	92.57	
1.000	1.000	124.1	0.000	0.000	Ug5_2_8_L_0						
56 D	25.28	-1.0016E-03	128.8	32.09	128.8	57.35	UL-RL	5.6410E+04	-11.000	94.29	
1.000	1.000	126.4	0.000	0.000	Ug5_2_8_L_0						
57 D	25.73	-8.9527E-04	131.0	32.66	131.0	58.37	UL-RL	5.6410E+04	-11.200	96.00	
1.000	1.000	128.7	0.000	0.000	Ug5_2_8_L_0						
58 D	26.19	-7.9608E-04	133.3	33.24	133.3	59.39	UL-RL	5.6410E+04	-11.400	97.71	
1.000	1.000	131.0	0.000	0.000	Ug5_2_8_L_0						
59 D	26.65	-7.0370E-04	135.6	33.82	135.6	60.40	UL-RL	5.6410E+04	-11.600	99.43	
1.000	1.000	133.2	0.000	0.000	Ug5_2_8_L_0						
60 D	27.11	-6.1770E-04	137.9	34.39	137.9	61.42	UL-RL	5.6410E+04	-11.800	101.1	
1.000	1.000	135.5	0.000	0.000	Ug5_2_8_L_0						
61 D	27.56	-5.3766E-04	140.2	34.97	140.2	62.44	UL-RL	5.6410E+04	-12.000	102.9	
1.000	1.000	137.8	0.000	0.000	Ug5_2_8_L_0						
62 D	31.77	-4.6313E-04	142.3	54.26	142.3	63.42	UL-RL	2.7006E+04	-12.200	104.6	
1.000	1.000	158.8	0.000	0.000	Ug6_741_743_L_0						
63 D	32.68	-3.9366E-04	144.4	57.14	144.4	64.53	UL-RL	2.7006E+04	-12.400	106.3	
1.000	1.000	163.4	0.000	0.000	Ug6_741_743_L_0						
64 D	33.57	-3.2878E-04	146.5	59.87	146.5	65.58	UL-RL	2.7006E+04	-12.600	108.0	
1.000	1.000	167.9	0.000	0.000	Ug6_741_743_L_0						
65 D	34.44	-2.6805E-04	148.6	62.49	148.6	66.59	UL-RL	2.7006E+04	-12.800	109.7	
1.000	1.000	172.2	0.000	0.000	Ug6_741_743_L_0						
66 D	35.28	-2.1104E-04	150.6	64.99	150.6	67.57	UL-RL	2.7006E+04	-13.000	111.4	
1.000	1.000	176.4	0.000	0.000	Ug6_741_743_L_0						
67 D	36.11	-1.5732E-04	152.7	67.40	152.7	68.52	UL-RL	2.7006E+04	-13.200	113.1	
1.000	1.000	180.5	0.000	0.000	Ug6_741_743_L_0						
68 D	36.81	-1.0651E-04	154.7	69.17	154.7	69.72	UL-RL	2.7006E+04	-13.400	114.9	
1.000	1.000	184.0	0.000	0.000	Ug6_741_743_L_0						
69 D	37.46	-5.8229E-05	156.8	70.71	156.8	70.98	UL-RL	2.7006E+04	-13.600	116.6	
1.000	1.000	187.3	0.000	0.000	Ug6_741_743_L_0						
70 D	38.07	-1.2114E-05	158.8	72.05	158.8	72.29	UL-RL	2.7006E+04	-13.800	118.3	
1.000	1.000	190.3	0.000	0.000	Ug6_741_743_L_0						
71 D	38.67	3.2162E-05	160.9	73.35	160.9	73.58	UL-RL	2.7006E+04	-14.000	120.0	
1.000	1.000	193.4	0.000	0.000	Ug6_741_743_L_0						
72 D	39.27	7.4906E-05	162.9	74.64	162.9	74.84	UL-RL	2.7006E+04	-14.200	121.7	
1.000	1.000	196.4	0.000	0.000	Ug6_741_743_L_0						
73 D	39.87	1.1640E-04	165.0	75.91	165.0	76.09	UL-RL	2.7006E+04	-14.400	123.4	
1.000	1.000	199.3	0.000	0.000	Ug6_741_743_L_0						
74 D	40.46	1.5689E-04	167.1	77.17	167.1	77.33	UL-RL	2.7006E+04	-14.600	125.1	
1.000	1.000	202.3	0.000	0.000	Ug6_741_743_L_0						
75 D	41.05	1.9662E-04	169.1	78.41	169.1	78.56	UL-RL	2.7006E+04	-14.800	126.9	
1.000	1.000	205.3	0.000	0.000	Ug6_741_743_L_0						
76 D	41.65	2.3577E-04	171.2	79.65	171.2	79.78	UL-RL	2.7006E+04	-15.000	128.6	
1.000	1.000	208.2	0.000	0.000	Ug6_741_743_L_0						
77 D	42.24	2.7452E-04	173.2	80.89	173.2	80.99	UL-RL	2.7006E+04	-15.200	130.3	
1.000	1.000	211.2	0.000	0.000	Ug6_741_743_L_0						
78 D	42.84	3.1300E-04	175.3	82.18	175.3	82.26	UL-RL	2.7006E+04	-15.400	132.0	
1.000	1.000	214.2	0.000	0.000	Ug6_741_743_L_0						

79 D	43.44	3.5134E-04	177.4	83.47	177.4	83.53	UL-RL	2.7006E+04	-15.60	133.7
1.000	1.000	217.2	0.000	0.000	Ug6_741_743_L_0					
80 D	44.04	3.8961E-04	179.4	84.76	179.4	84.80	UL-RL	2.7006E+04	-15.80	135.4
1.000	1.000	220.2	0.000	0.000	Ug6_741_743_L_0					
81 D	22.32	4.2786E-04	181.5	86.05	181.5	86.06	UL-RL	2.7006E+04	-16.00	137.1
1.000	1.000	223.2	0.000	0.000	Ug6_741_743_L_0					

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|                PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*                |
|                                                                                                                                            |
|                                                                                                                                            |
|                NewProject.BaseDesignSection_28.SISMICASTR_1817                                                                                   |
|                Exe Time :24 May 2018  18:25:49                                                                                               |
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New Project

STRESS RESULTS FOR GROUP NO. 2

0\_R :  
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 81  
CURRENT TIME IS 5.0000

HARDENING 2D SOIL ELEMENT

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

EL * FACTOR	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
1	0.000	--	--	--	--	--	REMOVED	--	0.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
2	0.000	--	--	--	--	--	REMOVED	--	-0.2000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
3	0.000	--	--	--	--	--	REMOVED	--	-0.4000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
4	0.000	--	--	--	--	--	REMOVED	--	-0.6000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
5	0.000	--	--	--	--	--	REMOVED	--	-0.8000	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	--	-1.200	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
8	0.000	--	--	--	--	--	REMOVED	--	-1.400	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
9	0.000	--	--	--	--	--	REMOVED	--	-1.600	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
10	0.000	--	--	--	--	--	REMOVED	--	-1.800	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
11	0.000	--	--	--	--	--	REMOVED	--	-2.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
12	0.000	--	--	--	--	--	REMOVED	--	-2.200	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
13	0.000	--	--	--	--	--	REMOVED	--	-2.400	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
14	0.000	--	--	--	--	--	REMOVED	--	-2.600	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
15	0.000	--	--	--	--	--	REMOVED	--	-2.800	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
16	0.000	--	--	--	--	--	REMOVED	--	-3.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
17	0.000	--	--	--	--	--	REMOVED	--	-3.200	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
18	0.000	--	--	--	--	--	REMOVED	--	-3.400	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
19	0.000	--	--	--	--	--	REMOVED	--	-3.600	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
20	0.000	--	--	--	--	--	REMOVED	--	-3.800	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
21 D	0.000	1.0718E-02	0.000	0.000	40.00	60.41	PASSIVE	0.000	-4.000	0.000	
1.000	1.000	0.000	0.000	0.000	Ug5_2_8_L_0						
22 D	2.767	1.0296E-02	1.714	11.55	42.00	65.98	PASSIVE	0.000	-4.200	2.286	
1.000	1.000	13.84	0.000	0.000	Ug5_2_8_L_0						
23 D	5.535	9.8781E-03	3.429	23.10	44.00	64.48	PASSIVE	0.000	-4.400	4.571	
1.000	1.000	27.67	0.000	0.000	Ug5_2_8_L_0						
24 D	8.302	9.4650E-03	5.143	34.65	46.00	63.03	PASSIVE	0.000	-4.600	6.857	
1.000	1.000	41.51	0.000	0.000	Ug5_2_8_L_0						
25 D	11.07	9.0571E-03	6.857	46.20	48.00	61.64	PASSIVE	0.000	-4.800	9.143	
1.000	1.000	55.35	0.000	0.000	Ug5_2_8_L_0						
26 D	13.84	8.6551E-03	8.571	57.75	50.00	60.31	PASSIVE	0.000	-5.000	11.43	
1.000	1.000	69.18	0.000	0.000	Ug5_2_8_L_0						
27 D	16.60	8.2596E-03	10.29	69.31	52.00	69.31	PASSIVE	0.000	-5.200	13.71	
1.000	1.000	83.02	0.000	0.000	Ug5_2_8_L_0						
28 D	19.37	7.8713E-03	12.00	80.86	54.00	80.86	PASSIVE	0.000	-5.400	16.00	
1.000	1.000	96.86	0.000	0.000	Ug5_2_8_L_0						
29 D	22.14	7.4907E-03	13.71	92.41	56.00	92.41	PASSIVE	0.000	-5.600	18.29	
1.000	1.000	110.7	0.000	0.000	Ug5_2_8_L_0						
30 D	24.41	7.1185E-03	15.43	101.5	58.00	101.5	V-C	9348.	-5.800	20.57	
1.000	1.000	122.0	0.000	0.000	Ug5_2_8_L_0						
31 D	24.25	6.7550E-03	17.14	98.41	60.00	98.41	V-C	9348.	-6.000	22.86	
1.000	1.000	121.3	0.000	0.000	Ug5_2_8_L_0						
32 D	24.12	6.4008E-03	18.86	95.46	62.00	95.46	V-C	9348.	-6.200	25.14	
1.000	1.000	120.6	0.000	0.000	Ug5_2_8_L_0						
33 D	24.01	6.0561E-03	20.57	92.62	64.00	92.62	V-C	9348.	-6.400	27.43	

1.000	1.000	120.0	0.000	0.000	Ug5_2_8_L_0						
34 D	23.92	5.7215E-03	22.29	89.91	66.00	89.91	V-C	9348.	-6.600	29.71	
1.000	1.000	119.6	0.000	0.000	Ug5_2_8_L_0						
35 D	23.86	5.3970E-03	24.00	87.32	68.00	87.32	V-C	9348.	-6.800	32.00	
1.000	1.000	119.3	0.000	0.000	Ug5_2_8_L_0						
36 D	23.83	5.0830E-03	25.71	84.85	70.00	84.85	V-C	9348.	-7.000	34.29	
1.000	1.000	119.1	0.000	0.000	Ug5_2_8_L_0						
37 D	23.82	4.7795E-03	27.43	82.52	72.00	82.52	V-C	9348.	-7.200	36.57	
1.000	1.000	119.1	0.000	0.000	Ug5_2_8_L_0						
38 D	23.83	4.4869E-03	29.14	80.31	74.00	80.31	V-C	9348.	-7.400	38.86	
1.000	1.000	119.2	0.000	0.000	Ug5_2_8_L_0						
39 D	23.88	4.2050E-03	30.86	78.24	76.00	78.24	V-C	9348.	-7.600	41.14	
1.000	1.000	119.4	0.000	0.000	Ug5_2_8_L_0						
40 D	23.94	3.9341E-03	32.57	76.29	78.00	76.29	V-C	9348.	-7.800	43.43	
1.000	1.000	119.7	0.000	0.000	Ug5_2_8_L_0						
41 D	24.04	3.6740E-03	34.29	74.47	80.00	74.47	V-C	9348.	-8.000	45.71	
1.000	1.000	120.2	0.000	0.000	Ug5_2_8_L_0						
42 D	24.16	3.4248E-03	36.00	72.78	82.00	72.78	V-C	9348.	-8.200	48.00	
1.000	1.000	120.8	0.000	0.000	Ug5_2_8_L_0						
43 D	24.30	3.1864E-03	37.71	71.22	84.00	71.22	V-C	9348.	-8.400	50.29	
1.000	1.000	121.5	0.000	0.000	Ug5_2_8_L_0						
44 D	24.47	2.9588E-03	39.43	69.78	86.00	69.78	V-C	9348.	-8.600	52.57	
1.000	1.000	122.4	0.000	0.000	Ug5_2_8_L_0						
45 D	24.67	2.7418E-03	41.14	68.47	88.00	68.47	V-C	9348.	-8.800	54.86	
1.000	1.000	123.3	0.000	0.000	Ug5_2_8_L_0						
46 D	24.88	2.5354E-03	42.86	67.28	90.00	67.28	V-C	9348.	-9.000	57.14	
1.000	1.000	124.4	0.000	0.000	Ug5_2_8_L_0						
47 D	25.13	2.3392E-03	44.57	66.20	92.00	66.21	UL-RL	2.8045E+04	-9.200	59.43	
1.000	1.000	125.6	0.000	0.000	Ug5_2_8_L_0						
48 D	25.39	2.1533E-03	46.29	65.25	94.00	65.25	UL-RL	2.8045E+04	-9.400	61.71	
1.000	1.000	127.0	0.000	0.000	Ug5_2_8_L_0						
49 D	25.68	1.9772E-03	48.00	64.40	96.00	64.41	UL-RL	2.8045E+04	-9.600	64.00	
1.000	1.000	128.4	0.000	0.000	Ug5_2_8_L_0						
50 D	25.99	1.8109E-03	49.71	63.67	98.00	63.68	UL-RL	2.8045E+04	-9.800	66.29	
1.000	1.000	130.0	0.000	0.000	Ug5_2_8_L_0						
51 D	26.32	1.6540E-03	51.43	63.04	100.00	63.05	UL-RL	2.8045E+04	-10.000	68.57	
1.000	1.000	131.6	0.000	0.000	Ug5_2_8_L_0						
52 D	26.68	1.5064E-03	53.14	62.52	102.0	62.53	UL-RL	2.8045E+04	-10.200	70.86	
1.000	1.000	133.4	0.000	0.000	Ug5_2_8_L_0						
53 D	27.05	1.3676E-03	54.86	62.10	104.0	62.11	UL-RL	2.8045E+04	-10.400	73.14	
1.000	1.000	135.2	0.000	0.000	Ug5_2_8_L_0						
54 D	27.44	1.2375E-03	56.57	61.77	106.0	61.78	UL-RL	2.8045E+04	-10.600	75.43	
1.000	1.000	137.2	0.000	0.000	Ug5_2_8_L_0						
55 D	27.85	1.1156E-03	58.29	61.53	108.0	61.55	UL-RL	2.8045E+04	-10.800	77.71	
1.000	1.000	139.2	0.000	0.000	Ug5_2_8_L_0						
56 D	28.28	1.0016E-03	60.00	61.38	110.0	61.40	UL-RL	2.8045E+04	-11.000	80.00	
1.000	1.000	141.4	0.000	0.000	Ug5_2_8_L_0						
57 D	28.72	8.9527E-04	61.71	61.32	112.0	61.33	UL-RL	2.8045E+04	-11.200	82.29	
1.000	1.000	143.6	0.000	0.000	Ug5_2_8_L_0						
58 D	29.18	7.9608E-04	63.43	61.33	114.0	61.35	UL-RL	2.8045E+04	-11.400	84.57	
1.000	1.000	145.9	0.000	0.000	Ug5_2_8_L_0						
59 D	29.65	7.0370E-04	65.14	61.41	116.0	61.43	UL-RL	2.8045E+04	-11.600	86.86	
1.000	1.000	148.3	0.000	0.000	Ug5_2_8_L_0						
60 D	30.14	6.1770E-04	66.86	61.56	118.0	61.59	UL-RL	2.8045E+04	-11.800	89.14	
1.000	1.000	150.7	0.000	0.000	Ug5_2_8_L_0						
61 D	30.64	5.3766E-04	68.57	61.78	120.0	61.81	UL-RL	2.8045E+04	-12.000	91.43	
1.000	1.000	153.2	0.000	0.000	Ug5_2_8_L_0						
62 D	30.55	4.6313E-04	70.09	59.06	121.8	61.39	UL-RL	2.1089E+04	-12.200	93.71	
1.000	1.000	152.8	0.000	0.000	Ug6_741_743_L_0						
63 D	30.89	3.9366E-04	71.60	58.44	123.6	62.28	UL-RL	2.1089E+04	-12.400	96.00	
1.000	1.000	154.4	0.000	0.000	Ug6_741_743_L_0						
64 D	31.24	3.2878E-04	73.11	57.94	125.4	63.16	UL-RL	2.1089E+04	-12.600	98.29	
1.000	1.000	156.2	0.000	0.000	Ug6_741_743_L_0						
65 D	31.62	2.6805E-04	74.63	57.53	127.2	64.05	UL-RL	2.1089E+04	-12.800	100.6	
1.000	1.000	158.1	0.000	0.000	Ug6_741_743_L_0						
66 D	32.01	2.1104E-04	76.14	57.20	129.0	64.94	UL-RL	2.1089E+04	-13.000	102.9	
1.000	1.000	160.1	0.000	0.000	Ug6_741_743_L_0						
67 D	32.42	1.5732E-04	77.66	56.95	130.8	65.83	UL-RL	2.1089E+04	-13.200	105.1	
1.000	1.000	162.1	0.000	0.000	Ug6_741_743_L_0						
68 D	32.84	1.0651E-04	79.17	56.77	132.6	66.72	UL-RL	2.1089E+04	-13.400	107.4	
1.000	1.000	164.2	0.000	0.000	Ug6_741_743_L_0						
69 D	33.27	5.8229E-05	80.69	56.64	134.4	67.60	UL-RL	2.1089E+04	-13.600	109.7	
1.000	1.000	166.4	0.000	0.000	Ug6_741_743_L_0						
70 D	33.71	1.2114E-05	82.20	56.56	136.2	68.49	UL-RL	2.1089E+04	-13.800	112.0	
1.000	1.000	168.6	0.000	0.000	Ug6_741_743_L_0						
71 D	34.16	-3.2162E-05	83.71	56.52	138.0	69.38	UL-RL	2.1089E+04	-14.000	114.3	
1.000	1.000	170.8	0.000	0.000	Ug6_741_743_L_0						
72 D	34.62	-7.4906E-05	85.23	56.51	139.8	70.27	UL-RL	2.1089E+04	-14.200	116.6	
1.000	1.000	173.1	0.000	0.000	Ug6_741_743_L_0						
73 D	35.08	-1.1640E-04	86.74	56.54	141.6	71.16	UL-RL	2.1089E+04	-14.400	118.9	
1.000	1.000	175.4	0.000	0.000	Ug6_741_743_L_0						
74 D	35.54	-1.5689E-04	88.26	56.58	143.4	72.05	UL-RL	2.1089E+04	-14.600	121.1	
1.000	1.000	177.7	0.000	0.000	Ug6_741_743_L_0						
75 D	36.01	-1.9662E-04	89.77	56.64	145.2	72.94	UL-RL	2.1089E+04	-14.800	123.4	
1.000	1.000	180.1	0.000	0.000	Ug6_741_743_L_0						
76 D	36.49	-2.3577E-04	91.29	56.71	147.0	73.84	UL-RL	2.1089E+04	-15.000	125.7	
1.000	1.000	182.4	0.000	0.000	Ug6_741_743_L_0						
77 D	36.96	-2.7452E-04	92.80	56.80	148.8	74.73	UL-RL	2.1089E+04	-15.200	128.0	
1.000	1.000	184.8	0.000	0.000	Ug6_741_743_L_0						
78 D	37.43	-3.1300E-04	94.31	56.88	150.6	75.62	UL-RL	2.1089E+04	-15.400	130.3	
1.000	1.000	187.2	0.000	0.000	Ug6_741_743_L_0						

79 D	37.91	-3.5134E-04	95.83	56.97	152.4	76.51	UL-RL	2.1089E+04	-15.60	132.6
1.000	1.000	189.5	0.000	0.000	Ug6_741_743_L_0					
80 D	38.38	-3.8961E-04	97.34	57.06	154.2	77.40	UL-RL	2.1089E+04	-15.80	134.9
1.000	1.000	191.9	0.000	0.000	Ug6_741_743_L_0					
81 D	19.43	-4.2786E-04	98.86	57.16	156.0	78.29	UL-RL	2.1089E+04	-16.00	137.1
1.000	1.000	194.3	0.000	0.000	Ug6_741_743_L_0					

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|                PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
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New Project

STRESS RESULTS FOR GROUP NO. 3

WallElement\_33 :  
ELEMENT TYPE 2 NO.OF ELEMENTS. IN THIS GROUP 80  
CURRENT TIME IS 5.0000

WALL2D ELEMENT

EL	TA	TB	MA	MB
1	4.81261E-09	4.81261E-09	-4.83055E-10	6.83633E-12
2	0.45709	-0.45709	-1.60067E-10	9.14178E-02
3	1.3733	-1.3733	-9.14178E-02	0.36608
4	2.7512	-2.7512	-0.36608	0.91632
5	4.5928	-4.5928	-0.91632	1.8349
6	6.8988	-6.8988	-1.8349	3.2146
7	9.6693	-9.6693	-3.2146	5.1485
8	12.910	-12.910	-5.1485	7.7304
9	16.622	-16.622	-7.7304	11.055
10	20.795	-20.795	-11.055	15.214
11	25.436	-25.436	-15.214	20.301
12	30.542	-30.542	-20.301	26.409
13	36.108	-36.108	-26.409	33.631
14	42.137	-42.137	-33.631	42.058
15	48.629	-48.629	-42.058	51.784
16	55.584	-55.584	-51.784	62.901
17	62.996	-62.996	-62.901	75.500
18	70.869	-70.869	-75.500	89.674
19	79.204	-79.204	-89.674	105.51
20	87.995	-87.995	-105.51	123.11
21	97.246	-97.246	-123.11	142.56
22	104.19	-104.19	-142.56	163.40
23	108.82	-108.82	-163.40	185.17
24	111.15	-111.15	-185.17	207.40
25	111.17	-111.17	-207.40	229.63
26	108.88	-108.88	-229.63	251.40
27	104.27	-104.27	-251.40	272.26
28	97.365	-97.365	-272.26	291.73
29	88.146	-88.146	-291.73	309.36
30	77.114	-77.114	-309.36	324.78
31	66.697	-66.697	-324.78	338.12
32	56.871	-56.871	-338.12	349.50
33	47.610	-47.610	-349.50	359.02
34	38.894	-38.894	-359.02	366.80
35	30.697	-30.697	-366.80	372.94
36	22.993	-22.993	-372.94	377.54
37	15.756	-15.756	-377.54	380.69
38	8.9605	-8.9605	-380.69	382.48
39	2.5816	-2.5816	-382.48	383.00
40	-3.4089	3.4089	-383.00	382.31
41	-9.0350	9.0350	-382.31	380.51
42	-14.322	14.322	-380.51	377.64
43	-19.298	19.298	-377.64	373.78
44	-23.986	23.986	-373.78	368.99
45	-28.411	28.411	-368.99	363.30
46	-32.597	32.597	-363.30	356.78
47	-36.570	36.570	-356.78	349.47
48	-40.350	40.350	-349.47	341.40
49	-43.962	43.962	-341.40	332.61
50	-47.429	47.429	-332.61	323.12
51	-50.770	50.770	-323.12	312.97
52	-54.006	54.006	-312.97	302.17
53	-57.159	57.159	-302.17	290.74
54	-60.246	60.246	-290.74	278.69
55	-63.285	63.285	-278.69	266.03
56	-66.295	66.295	-266.03	252.77
57	-69.292	69.292	-252.77	238.91
58	-72.291	72.291	-238.91	224.45
59	-75.308	75.308	-224.45	209.39
60	-78.356	78.356	-209.39	193.72
61	-81.448	81.448	-193.72	177.43
62	-80.236	80.236	-177.43	161.38
63	-78.440	78.440	-161.38	145.70
64	-76.110	76.110	-145.70	130.47
65	-73.289	73.289	-130.47	115.82
66	-70.015	70.015	-115.82	101.81
67	-66.324	66.324	-101.81	88.548
68	-62.357	62.357	-88.548	76.077
69	-58.171	58.171	-76.077	64.443



70	-53.816	53.816	-64.443	53.679
71	-49.307	49.307	-53.679	43.818
72	-44.653	44.653	-43.818	34.888
73	-39.864	39.864	-34.888	26.915
74	-34.947	34.947	-26.915	19.925
75	-29.907	29.907	-19.925	13.944
76	-24.748	24.748	-13.944	8.9943
77	-19.472	19.472	-8.9943	5.1000
78	-14.069	14.069	-5.1000	2.2862
79	-8.5417	8.5417	-2.2862	0.57781
80	-2.8889	2.8889	-0.57781	9.05243E-12

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ITER      0  RNORM = 0.000      RMNORM= 0.000
            RINORM=0.6092E+06  RIMNOR=0.8227E+07
            RENORM= 440.5      REMNOR=0.1549E-17  RATIO =0.2689E-01  TOLER =0.1000E-03  NOT CONVERGED
            RFMAX = 111.2      RMMAX = 383.0
            RTSMAL=0.1000E-02  RMSMAL=0.1000E-02
            RDT   =0.6092E+06  RDR   =0.8227E+07
            RATIO=0.2689E-01  RATIO= 0.000
            MAX UN= 7.064      IEQ=   57 NODE      29 DOF   1  Y-DISPL.F
            MIN UN=-.8312E-01  IEQ=   41 NODE      21 DOF   1  Y-DISPL.F
            NO. OF CONTACT CONSTRAINT VIOLATIONS      0

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ITER      2  RNORM = 0.000      RMNORM= 0.000
            RINORM=0.6092E+06  RIMNOR=0.8227E+07
            RENORM= 126.0      REMNOR=0.1559E-17  RATIO =0.1438E-01  TOLER =0.1000E-03  NOT CONVERGED
            RFMAX = 111.2      RMMAX = 383.0
            RTSMAL=0.1000E-02  RMSMAL=0.1000E-02
            RDT   =0.6092E+06  RDR   =0.8227E+07
            RATIO=0.1438E-01  RATIO= 0.000
            MAX UN= 2.378      IEQ=   63 NODE      32 DOF   1  Y-DISPL.F
            MIN UN=-.4778E-08  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=0.6092E+06  RIMNOR=0.8227E+07
            RENORM= 461.4      REMNOR=0.1752E-17  RATIO =0.2752E-01  TOLER =0.1000E-03  NOT CONVERGED
            RFMAX = 111.2      RMMAX = 383.0
            RTSMAL=0.1000E-02  RMSMAL=0.1000E-02
            RDT   =0.6092E+06  RDR   =0.8227E+07
            RATIO=0.2752E-01  RATIO= 0.000
            MAX UN= 21.36      IEQ=    3 NODE      2 DOF   1  Y-DISPL.F
            MIN UN=-.5779      IEQ=  159 NODE      80 DOF   1  Y-DISPL.F
            NO. OF CONTACT CONSTRAINT VIOLATIONS      0

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ITER      4  RNORM = 0.000      RMNORM= 0.000
            RINORM=0.6092E+06  RIMNOR=0.8227E+07
            RENORM= 2.925      REMNOR=0.3190E-17  RATIO =0.2191E-02  TOLER =0.1000E-03  NOT CONVERGED
            RFMAX = 111.2      RMMAX = 383.0
            RTSMAL=0.1000E-02  RMSMAL=0.1000E-02
            RDT   =0.6092E+06  RDR   =0.8227E+07
            RATIO=0.2191E-02  RATIO= 0.000
            MAX UN= 1.185      IEQ=   67 NODE      34 DOF   1  Y-DISPL.F
            MIN UN=-.8780      IEQ=  147 NODE      74 DOF   1  Y-DISPL.F
            NO. OF CONTACT CONSTRAINT VIOLATIONS      0

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ITER      5  RNORM = 0.000      RMNORM= 0.000
            RINORM=0.6092E+06  RIMNOR=0.8227E+07
            RENORM=0.7400E-02  REMNOR=0.2724E-17  RATIO =0.1102E-03  TOLER =0.1000E-03  NOT CONVERGED
            RFMAX = 111.2      RMMAX = 383.0
            RTSMAL=0.1000E-02  RMSMAL=0.1000E-02
            RDT   =0.6092E+06  RDR   =0.8227E+07
            RATIO=0.1102E-03  RATIO= 0.000
            MAX UN=0.6220E-01  IEQ=  127 NODE      64 DOF   1  Y-DISPL.F
            MIN UN=-.9613E-08  IEQ=    3 NODE      2 DOF   1  Y-DISPL.F
            NO. OF CONTACT CONSTRAINT VIOLATIONS      0

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ITER      6  RNORM = 0.000      RMNORM= 0.000
            RINORM=0.6092E+06  RIMNOR=0.8227E+07
            RENORM=0.5120E-04  REMNOR=0.3272E-17  RATIO =0.9167E-05  TOLER =0.1000E-03  CONVERGED !
            RFMAX = 111.2      RMMAX = 383.0
            RTSMAL=0.1000E-02  RMSMAL=0.1000E-02
            RDT   =0.6092E+06  RDR   =0.8227E+07
            RATIO=0.9167E-05  RATIO= 0.000
            MAX UN=0.9793E-08  IEQ=   45 NODE      23 DOF   1  Y-DISPL.F
            MIN UN=-.2648E-02  IEQ=  139 NODE      70 DOF   1  Y-DISPL.F
            NO. OF CONTACT CONSTRAINT VIOLATIONS      0

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|                PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                                     |
|                                                                                                     |
|                NewProject.BaseDesignSection_28.SISMICASTR_1817  |
|                Exe Time :24 May 2018  18:25:49  |
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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	3.0075695E-02	-3.1648037E-03	
2	2.9442734E-02	-3.1648037E-03	
3	2.8809774E-02	-3.1647973E-03	
4	2.8176817E-02	-3.1647652E-03	
5	2.7543871E-02	-3.1646752E-03	
6	2.6910953E-02	-3.1644820E-03	
7	2.6278089E-02	-3.1641275E-03	
8	2.5645318E-02	-3.1635404E-03	
9	2.5012694E-02	-3.1626362E-03	
10	2.4380291E-02	-3.1613173E-03	
11	2.3748202E-02	-3.1594730E-03	
12	2.3116545E-02	-3.1569795E-03	
13	2.2485463E-02	-3.1537000E-03	
14	2.1855128E-02	-3.1494845E-03	
15	2.1225742E-02	-3.1441702E-03	
16	2.0597545E-02	-3.1375813E-03	
17	1.9970804E-02	-3.1295289E-03	
18	1.9345841E-02	-3.1198113E-03	
19	1.8723005E-02	-3.1082139E-03	
20	1.8102696E-02	-3.0945090E-03	
21	1.7485361E-02	-3.0784563E-03	
22	1.6871490E-02	-3.0598021E-03	
23	1.6261631E-02	-3.0382804E-03	
24	1.5656387E-02	-3.0136120E-03	
25	1.5056415E-02	-2.9855242E-03	
26	1.4462421E-02	-2.9537894E-03	
27	1.3875156E-02	-2.9182450E-03	
28	1.3295386E-02	-2.8787921E-03	
29	1.2723902E-02	-2.8353972E-03	
30	1.2161488E-02	-2.7880909E-03	
31	1.1608920E-02	-2.7369685E-03	
32	1.1066947E-02	-2.6821902E-03	
33	1.0536275E-02	-2.6239799E-03	
34	1.0017565E-02	-2.5626268E-03	
35	9.5114104E-03	-2.4984846E-03	
36	9.0183307E-03	-2.4319463E-03	
37	8.5387681E-03	-2.3634014E-03	
38	8.0730819E-03	-2.2932170E-03	
39	7.6215674E-03	-2.2217402E-03	
40	7.1844501E-03	-2.1492981E-03	
41	6.7618920E-03	-2.0761988E-03	
42	6.3539951E-03	-2.0027322E-03	
43	5.9608054E-03	-1.9291713E-03	
44	5.5823158E-03	-1.855726E-03	
45	5.2184712E-03	-1.7827778E-03	
46	4.8691645E-03	-1.7104130E-03	
47	4.5342498E-03	-1.6388917E-03	
48	4.2135381E-03	-1.5684146E-03	
49	3.9068017E-03	-1.4991704E-03	
50	3.6137774E-03	-1.4313371E-03	
51	3.3341632E-03	-1.3650817E-03	
52	3.0676225E-03	-1.3005611E-03	
53	2.8138185E-03	-1.2379315E-03	
54	2.5723277E-03	-1.1773267E-03	
55	2.3427437E-03	-1.1188847E-03	
56	2.1246210E-03	-1.0627340E-03	
57	1.9174891E-03	-1.0089973E-03	
58	1.7208534E-03	-9.5779218E-04	
59	1.5341959E-03	-9.0923199E-04	
60	1.3569769E-03	-8.6342611E-04	
61	1.1886348E-03	-8.2048062E-04	
62	1.0285871E-03	-7.8049874E-04	
63	8.7623421E-04	-7.4353333E-04	
64	7.3097249E-04	-7.0958722E-04	
65	5.9219799E-04	-6.7866115E-04	
66	4.5930764E-04	-6.5074104E-04	
67	3.3170408E-04	-6.2578340E-04	
68	2.0880169E-04	-6.0371448E-04	
69	9.0032444E-05	-5.8443316E-04	
70	-2.5149062E-05	-5.6781424E-04	
71	-1.3726103E-04	-5.5371205E-04	
72	-2.4679087E-04	-5.4196473E-04	
73	-3.5419218E-04	-5.3239623E-04	

74	-4.5988196E-04	-5.2481672E-04
75	-5.6423792E-04	-5.1902297E-04
76	-6.6759578E-04	-5.1479858E-04
77	-7.7024668E-04	-5.1191417E-04
78	-8.7243463E-04	-5.1012760E-04
79	-9.7435391E-04	-5.0918384E-04
80	-1.0761465E-03	-5.0881488E-04
81	-1.1779045E-03	-5.0873979E-04



1.000	1.000	72.75	0.000	0.000	Ug5_2_8_L_0					
34 D	15.00	-1.0018E-02	79.56	19.81	79.56	35.15	ACTIVE	0.000	-6.600	55.20
1.000	1.000	75.01	0.000	0.000	Ug5_2_8_L_0					
35 D	15.45	-9.5114E-03	81.92	20.40	81.92	36.15	ACTIVE	0.000	-6.800	56.87
1.000	1.000	77.27	0.000	0.000	Ug5_2_8_L_0					
36 D	15.91	-9.0183E-03	84.28	20.98	84.28	37.16	ACTIVE	0.000	-7.000	58.55
1.000	1.000	79.53	0.000	0.000	Ug5_2_8_L_0					
37 D	16.36	-8.5388E-03	86.59	21.56	86.59	38.16	ACTIVE	0.000	-7.200	60.22
1.000	1.000	81.78	0.000	0.000	Ug5_2_8_L_0					
38 D	16.81	-8.0731E-03	88.95	22.15	88.95	39.16	ACTIVE	0.000	-7.400	61.89
1.000	1.000	84.04	0.000	0.000	Ug5_2_8_L_0					
39 D	17.26	-7.6216E-03	91.30	22.73	91.30	40.17	ACTIVE	0.000	-7.600	63.56
1.000	1.000	86.30	0.000	0.000	Ug5_2_8_L_0					
40 D	17.71	-7.1845E-03	93.62	23.31	93.62	41.17	ACTIVE	0.000	-7.800	65.24
1.000	1.000	88.55	0.000	0.000	Ug5_2_8_L_0					
41 D	18.16	-6.7619E-03	95.97	23.90	95.97	42.18	ACTIVE	0.000	-8.000	66.91
1.000	1.000	90.81	0.000	0.000	Ug5_2_8_L_0					
42 D	18.61	-6.3540E-03	98.32	24.48	98.32	43.19	ACTIVE	0.000	-8.200	68.58
1.000	1.000	93.06	0.000	0.000	Ug5_2_8_L_0					
43 D	19.06	-5.9608E-03	100.6	25.06	100.6	44.19	ACTIVE	0.000	-8.400	70.25
1.000	1.000	95.31	0.000	0.000	Ug5_2_8_L_0					
44 D	19.51	-5.5823E-03	103.0	25.64	103.0	45.20	ACTIVE	0.000	-8.600	71.93
1.000	1.000	97.57	0.000	0.000	Ug5_2_8_L_0					
45 D	19.97	-5.2185E-03	105.3	26.23	105.3	46.21	ACTIVE	0.000	-8.800	73.60
1.000	1.000	99.83	0.000	0.000	Ug5_2_8_L_0					
46 D	20.42	-4.8692E-03	107.7	26.81	107.7	47.22	ACTIVE	0.000	-9.000	75.27
1.000	1.000	102.1	0.000	0.000	Ug5_2_8_L_0					
47 D	20.87	-4.5342E-03	110.0	27.39	110.0	48.23	ACTIVE	0.000	-9.200	76.95
1.000	1.000	104.3	0.000	0.000	Ug5_2_8_L_0					
48 D	21.32	-4.2135E-03	112.3	27.97	112.3	49.24	ACTIVE	0.000	-9.400	78.62
1.000	1.000	106.6	0.000	0.000	Ug5_2_8_L_0					
49 D	21.77	-3.9068E-03	114.7	28.56	114.7	50.26	ACTIVE	0.000	-9.600	80.29
1.000	1.000	108.8	0.000	0.000	Ug5_2_8_L_0					
50 D	22.22	-3.6138E-03	117.0	29.13	117.0	51.27	ACTIVE	0.000	-9.800	81.96
1.000	1.000	111.1	0.000	0.000	Ug5_2_8_L_0					
51 D	22.67	-3.3342E-03	119.4	29.72	119.4	52.28	ACTIVE	0.000	-10.000	83.64
1.000	1.000	113.4	0.000	0.000	Ug5_2_8_L_0					
52 D	23.12	-3.0676E-03	121.7	30.30	121.7	53.29	ACTIVE	0.000	-10.200	85.31
1.000	1.000	115.6	0.000	0.000	Ug5_2_8_L_0					
53 D	23.57	-2.8138E-03	124.0	30.88	124.0	54.31	ACTIVE	0.000	-10.400	86.98
1.000	1.000	117.9	0.000	0.000	Ug5_2_8_L_0					
54 D	24.02	-2.5723E-03	126.4	31.46	126.4	55.32	ACTIVE	0.000	-10.600	88.65
1.000	1.000	120.1	0.000	0.000	Ug5_2_8_L_0					
55 D	24.47	-2.3427E-03	128.7	32.05	128.7	56.34	ACTIVE	0.000	-10.800	90.33
1.000	1.000	122.4	0.000	0.000	Ug5_2_8_L_0					
56 D	24.93	-2.1246E-03	131.0	32.63	131.0	57.35	ACTIVE	0.000	-11.000	92.00
1.000	1.000	124.6	0.000	0.000	Ug5_2_8_L_0					
57 D	25.38	-1.9175E-03	133.4	33.21	133.4	58.37	ACTIVE	0.000	-11.200	93.67
1.000	1.000	126.9	0.000	0.000	Ug5_2_8_L_0					
58 D	25.83	-1.7209E-03	135.7	33.79	135.7	59.39	ACTIVE	0.000	-11.400	95.35
1.000	1.000	129.1	0.000	0.000	Ug5_2_8_L_0					
59 D	26.28	-1.5342E-03	138.0	34.37	138.0	60.40	ACTIVE	0.000	-11.600	97.02
1.000	1.000	131.4	0.000	0.000	Ug5_2_8_L_0					
60 D	26.73	-1.3570E-03	140.4	34.95	140.4	61.42	ACTIVE	0.000	-11.800	98.69
1.000	1.000	133.6	0.000	0.000	Ug5_2_8_L_0					
61 D	27.19	-1.1886E-03	142.7	35.57	142.7	62.44	UL-RL	5.0142E+04	-12.000	100.4
1.000	1.000	135.9	0.000	0.000	Ug5_2_8_L_0					
62 D	30.47	-1.0286E-03	144.8	50.32	144.8	63.42	UL-RL	2.4005E+04	-12.200	102.0
1.000	1.000	152.4	0.000	0.000	Ug6_741_743_L_0					
63 D	30.98	-8.7623E-04	147.0	51.20	147.0	64.53	UL-RL	2.4005E+04	-12.400	103.7
1.000	1.000	154.9	0.000	0.000	Ug6_741_743_L_0					
64 D	31.49	-7.3097E-04	149.1	52.08	149.1	65.58	UL-RL	2.4005E+04	-12.600	105.4
1.000	1.000	157.5	0.000	0.000	Ug6_741_743_L_0					
65 D	32.62	-5.9220E-04	151.2	56.04	151.2	66.59	UL-RL	2.4005E+04	-12.800	107.1
1.000	1.000	163.1	0.000	0.000	Ug6_741_743_L_0					
66 D	33.82	-4.5931E-04	153.3	60.39	153.3	67.57	UL-RL	2.4005E+04	-13.000	108.7
1.000	1.000	169.1	0.000	0.000	Ug6_741_743_L_0					
67 D	35.00	-3.3170E-04	155.4	64.59	155.4	68.78	UL-RL	2.4005E+04	-13.200	110.4
1.000	1.000	175.0	0.000	0.000	Ug6_741_743_L_0					
68 D	36.04	-2.0880E-04	157.5	68.11	157.5	70.56	UL-RL	2.4005E+04	-13.400	112.1
1.000	1.000	180.2	0.000	0.000	Ug6_741_743_L_0					
69 D	37.02	-9.0032E-05	159.6	71.36	159.6	72.13	UL-RL	2.4005E+04	-13.600	113.7
1.000	1.000	185.1	0.000	0.000	Ug6_741_743_L_0					
70 D	37.84	2.5149E-05	161.7	73.76	161.7	73.78	UL-RL	2.4005E+04	-13.800	115.4
1.000	1.000	189.2	0.000	0.000	Ug6_741_743_L_0					
71 D	38.55	1.3726E-04	163.8	75.64	163.8	75.65	UL-RL	2.4005E+04	-14.000	117.1
1.000	1.000	192.7	0.000	0.000	Ug6_741_743_L_0					
72 D	39.25	2.4679E-04	165.9	77.48	165.9	77.50	UL-RL	2.4005E+04	-14.200	118.8
1.000	1.000	196.2	0.000	0.000	Ug6_741_743_L_0					
73 D	39.95	3.5419E-04	168.0	79.30	168.0	79.31	UL-RL	2.4005E+04	-14.400	120.4
1.000	1.000	199.7	0.000	0.000	Ug6_741_743_L_0					
74 D	40.64	4.5988E-04	170.1	81.10	170.1	81.11	UL-RL	2.4005E+04	-14.600	122.1
1.000	1.000	203.2	0.000	0.000	Ug6_741_743_L_0					
75 D	41.33	5.6424E-04	172.2	82.88	172.2	82.90	UL-RL	2.4005E+04	-14.800	123.8
1.000	1.000	206.7	0.000	0.000	Ug6_741_743_L_0					
76 D	42.02	6.6760E-04	174.3	84.66	174.3	84.67	UL-RL	2.4005E+04	-15.000	125.5
1.000	1.000	210.1	0.000	0.000	Ug6_741_743_L_0					
77 D	42.71	7.7025E-04	176.4	86.43	176.4	86.44	UL-RL	2.4005E+04	-15.200	127.1
1.000	1.000	213.6	0.000	0.000	Ug6_741_743_L_0					
78 D	43.41	8.7243E-04	178.5	88.25	178.5	88.26	UL-RL	2.4005E+04	-15.400	128.8
1.000	1.000	217.0	0.000	0.000	Ug6_741_743_L_0					

79 D	44.11	9.7435E-04	180.6	90.07	180.6	90.08	UL-RL	2.4005E+04	-15.60	130.5
1.000	1.000	220.5	0.000	0.000	Ug6_741_743_L_0					
80 D	44.81	1.0761E-03	182.7	91.88	182.7	91.90	UL-RL	2.4005E+04	-15.80	132.1
1.000	1.000	224.0	0.000	0.000	Ug6_741_743_L_0					
81 D	22.75	1.1779E-03	184.8	93.70	184.8	93.71	UL-RL	2.4005E+04	-16.00	133.8
1.000	1.000	227.5	0.000	0.000	Ug6_741_743_L_0					

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|                PARATIEPLUS(TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION *Build date:Jul 11, 2017*                |
|                                                                                                                                            |
|                                                                                                                                            |
|                NewProject.BaseDesignSection_28.SISMICASTR_1817                                                                                   |
|                Exe Time :24 May 2018 18:25:49                                                                                               |
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New Project

STRESS RESULTS FOR GROUP NO. 2

0\_R :  
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 81  
CURRENT TIME IS 6.0000

HARDENING 2D SOIL ELEMENT

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

EL * FACTOR	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
1	0.000	--	--	--	--	--	REMOVED	--	0.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
2	0.000	--	--	--	--	--	REMOVED	--	-0.2000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
3	0.000	--	--	--	--	--	REMOVED	--	-0.4000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
4	0.000	--	--	--	--	--	REMOVED	--	-0.6000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
5	0.000	--	--	--	--	--	REMOVED	--	-0.8000	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	--	-1.200	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
8	0.000	--	--	--	--	--	REMOVED	--	-1.400	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
9	0.000	--	--	--	--	--	REMOVED	--	-1.600	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
10	0.000	--	--	--	--	--	REMOVED	--	-1.800	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
11	0.000	--	--	--	--	--	REMOVED	--	-2.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
12	0.000	--	--	--	--	--	REMOVED	--	-2.200	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
13	0.000	--	--	--	--	--	REMOVED	--	-2.400	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
14	0.000	--	--	--	--	--	REMOVED	--	-2.600	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
15	0.000	--	--	--	--	--	REMOVED	--	-2.800	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
16	0.000	--	--	--	--	--	REMOVED	--	-3.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
17	0.000	--	--	--	--	--	REMOVED	--	-3.200	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
18	0.000	--	--	--	--	--	REMOVED	--	-3.400	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
19	0.000	--	--	--	--	--	REMOVED	--	-3.600	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
20	0.000	--	--	--	--	--	REMOVED	--	-3.800	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
21	0.000	--	--	--	--	--	REMOVED	--	-4.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
22	0.000	--	--	--	--	--	REMOVED	--	-4.200	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
23	0.000	--	--	--	--	--	REMOVED	--	-4.400	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
24 D	1.360	1.5656E-02	0.8364	5.635	46.00	63.03	PASSIVE	0.000	-4.600	1.164	
1.000	1.000	6.799	0.000	0.000	Ug5_2_8_L_0						
25 D	4.079	1.5056E-02	2.509	16.91	48.00	61.64	PASSIVE	0.000	-4.800	3.491	
1.000	1.000	20.40	0.000	0.000	Ug5_2_8_L_0						
26 D	6.799	1.4462E-02	4.182	28.18	50.00	60.31	PASSIVE	0.000	-5.000	5.818	
1.000	1.000	34.00	0.000	0.000	Ug5_2_8_L_0						
27 D	9.519	1.3875E-02	5.855	39.45	52.00	69.31	PASSIVE	0.000	-5.200	8.145	
1.000	1.000	47.59	0.000	0.000	Ug5_2_8_L_0						
28 D	12.24	1.3295E-02	7.527	50.72	54.00	80.86	PASSIVE	0.000	-5.400	10.47	
1.000	1.000	61.19	0.000	0.000	Ug5_2_8_L_0						
29 D	14.96	1.2724E-02	9.200	61.99	56.00	92.41	PASSIVE	0.000	-5.600	12.80	
1.000	1.000	74.79	0.000	0.000	Ug5_2_8_L_0						
30 D	17.68	1.2161E-02	10.87	73.26	58.00	101.5	PASSIVE	0.000	-5.800	15.13	
1.000	1.000	88.39	0.000	0.000	Ug5_2_8_L_0						
31 D	20.40	1.1609E-02	12.55	84.53	60.00	98.41	PASSIVE	0.000	-6.000	17.45	
1.000	1.000	102.0	0.000	0.000	Ug5_2_8_L_0						
32 D	23.12	1.1067E-02	14.22	95.80	62.00	95.80	PASSIVE	0.000	-6.200	19.78	
1.000	1.000	115.6	0.000	0.000	Ug5_2_8_L_0						
33 D	25.84	1.0536E-02	15.89	107.1	64.00	107.1	PASSIVE	0.000	-6.400	22.11	

1.000	1.000	129.2	0.000	0.000	Ug5_2_8_L_0						
34 D	28.56	1.0018E-02	17.56	118.3	66.00	118.3	PASSIVE	0.000	-6.600	24.44	
1.000	1.000	142.8	0.000	0.000	Ug5_2_8_L_0						
35 D	29.51	9.5114E-03	19.24	120.8	68.00	120.8	V-C	8310.	-6.800	26.76	
1.000	1.000	147.6	0.000	0.000	Ug5_2_8_L_0						
36 D	29.19	9.0183E-03	20.91	116.9	70.00	116.9	V-C	8310.	-7.000	29.09	
1.000	1.000	146.0	0.000	0.000	Ug5_2_8_L_0						
37 D	28.90	8.5388E-03	22.58	113.1	72.00	113.1	V-C	8310.	-7.200	31.42	
1.000	1.000	144.5	0.000	0.000	Ug5_2_8_L_0						
38 D	28.64	8.0731E-03	24.25	109.4	74.00	109.4	V-C	8310.	-7.400	33.75	
1.000	1.000	143.2	0.000	0.000	Ug5_2_8_L_0						
39 D	28.41	7.6216E-03	25.93	106.0	76.00	106.0	V-C	8310.	-7.600	36.07	
1.000	1.000	142.0	0.000	0.000	Ug5_2_8_L_0						
40 D	28.21	7.1845E-03	27.60	102.6	78.00	102.6	V-C	8310.	-7.800	38.40	
1.000	1.000	141.0	0.000	0.000	Ug5_2_8_L_0						
41 D	28.04	6.7619E-03	29.27	99.47	80.00	99.47	V-C	8310.	-8.000	40.73	
1.000	1.000	140.2	0.000	0.000	Ug5_2_8_L_0						
42 D	27.90	6.3540E-03	30.95	96.46	82.00	96.46	V-C	8310.	-8.200	43.05	
1.000	1.000	139.5	0.000	0.000	Ug5_2_8_L_0						
43 D	27.80	5.9608E-03	32.62	93.62	84.00	93.62	V-C	8310.	-8.400	45.38	
1.000	1.000	139.0	0.000	0.000	Ug5_2_8_L_0						
44 D	27.73	5.5823E-03	34.29	90.93	86.00	90.93	V-C	8310.	-8.600	47.71	
1.000	1.000	138.6	0.000	0.000	Ug5_2_8_L_0						
45 D	27.69	5.2185E-03	35.96	88.40	88.00	88.40	V-C	8310.	-8.800	50.04	
1.000	1.000	138.4	0.000	0.000	Ug5_2_8_L_0						
46 D	27.68	4.8692E-03	37.64	86.02	90.00	86.02	V-C	8310.	-9.000	52.36	
1.000	1.000	138.4	0.000	0.000	Ug5_2_8_L_0						
47 D	27.70	4.5342E-03	39.31	83.79	92.00	83.79	V-C	8310.	-9.200	54.69	
1.000	1.000	138.5	0.000	0.000	Ug5_2_8_L_0						
48 D	27.75	4.2135E-03	40.98	81.72	94.00	81.72	V-C	8310.	-9.400	57.02	
1.000	1.000	138.7	0.000	0.000	Ug5_2_8_L_0						
49 D	27.83	3.9068E-03	42.65	79.79	96.00	79.79	V-C	8310.	-9.600	59.35	
1.000	1.000	139.1	0.000	0.000	Ug5_2_8_L_0						
50 D	27.94	3.6138E-03	44.33	78.01	98.00	78.01	V-C	8310.	-9.800	61.67	
1.000	1.000	139.7	0.000	0.000	Ug5_2_8_L_0						
51 D	28.07	3.3342E-03	46.00	76.36	100.00	76.36	V-C	8310.	-10.000	64.00	
1.000	1.000	140.4	0.000	0.000	Ug5_2_8_L_0						
52 D	28.24	3.0676E-03	47.67	74.85	102.0	74.85	V-C	8310.	-10.200	66.33	
1.000	1.000	141.2	0.000	0.000	Ug5_2_8_L_0						
53 D	28.43	2.8138E-03	49.35	73.47	104.0	73.47	V-C	8310.	-10.400	68.65	
1.000	1.000	142.1	0.000	0.000	Ug5_2_8_L_0						
54 D	28.64	2.5723E-03	51.02	72.22	106.0	72.22	V-C	8310.	-10.600	70.98	
1.000	1.000	143.2	0.000	0.000	Ug5_2_8_L_0						
55 D	28.88	2.3427E-03	52.69	71.09	108.0	71.09	V-C	8310.	-10.800	73.31	
1.000	1.000	144.4	0.000	0.000	Ug5_2_8_L_0						
56 D	29.14	2.1246E-03	54.36	70.07	110.0	70.07	V-C	8310.	-11.000	75.64	
1.000	1.000	145.7	0.000	0.000	Ug5_2_8_L_0						
57 D	29.43	1.9175E-03	56.04	69.17	112.0	69.17	V-C	8310.	-11.200	77.96	
1.000	1.000	147.1	0.000	0.000	Ug5_2_8_L_0						
58 D	29.73	1.7209E-03	57.71	68.37	114.0	68.37	V-C	8310.	-11.400	80.29	
1.000	1.000	148.7	0.000	0.000	Ug5_2_8_L_0						
59 D	30.06	1.5342E-03	59.38	67.67	116.0	67.67	V-C	8310.	-11.600	82.62	
1.000	1.000	150.3	0.000	0.000	Ug5_2_8_L_0						
60 D	30.40	1.3570E-03	61.05	67.07	118.0	67.07	V-C	8310.	-11.800	84.95	
1.000	1.000	152.0	0.000	0.000	Ug5_2_8_L_0						
61 D	30.76	1.1886E-03	62.73	66.54	120.0	66.55	UL-RL	2.4929E+04	-12.000	87.27	
1.000	1.000	153.8	0.000	0.000	Ug5_2_8_L_0						
62 D	30.61	1.0286E-03	64.20	63.45	121.8	63.50	UL-RL	1.8746E+04	-12.200	89.60	
1.000	1.000	153.0	0.000	0.000	Ug6_741_743_L_0						
63 D	31.04	8.7623E-04	65.67	63.28	123.6	63.38	UL-RL	1.8746E+04	-12.400	91.93	
1.000	1.000	155.2	0.000	0.000	Ug6_741_743_L_0						
64 D	31.49	7.3097E-04	67.15	63.17	125.4	63.32	UL-RL	1.8746E+04	-12.600	94.25	
1.000	1.000	157.4	0.000	0.000	Ug6_741_743_L_0						
65 D	31.64	5.9220E-04	68.62	61.60	127.2	64.05	UL-RL	1.8746E+04	-12.800	96.58	
1.000	1.000	158.2	0.000	0.000	Ug6_741_743_L_0						
66 D	31.75	4.5931E-04	70.09	59.84	129.0	64.94	UL-RL	1.8746E+04	-13.000	98.91	
1.000	1.000	158.8	0.000	0.000	Ug6_741_743_L_0						
67 D	31.89	3.3170E-04	71.56	58.20	130.8	65.83	UL-RL	1.8746E+04	-13.200	101.2	
1.000	1.000	159.4	0.000	0.000	Ug6_741_743_L_0						
68 D	32.04	2.0880E-04	73.04	56.66	132.6	66.72	UL-RL	1.8746E+04	-13.400	103.6	
1.000	1.000	160.2	0.000	0.000	Ug6_741_743_L_0						
69 D	32.22	9.0032E-05	74.51	55.20	134.4	67.60	UL-RL	1.8746E+04	-13.600	105.9	
1.000	1.000	161.1	0.000	0.000	Ug6_741_743_L_0						
70 D	32.41	-2.5149E-05	75.98	53.82	136.2	68.49	UL-RL	1.8746E+04	-13.800	108.2	
1.000	1.000	162.0	0.000	0.000	Ug6_741_743_L_0						
71 D	32.61	-1.3726E-04	77.45	52.50	138.0	69.38	UL-RL	1.8746E+04	-14.000	110.5	
1.000	1.000	163.0	0.000	0.000	Ug6_741_743_L_0						
72 D	32.82	-2.4679E-04	78.93	51.24	139.8	70.27	UL-RL	1.8746E+04	-14.200	112.9	
1.000	1.000	164.1	0.000	0.000	Ug6_741_743_L_0						
73 D	33.04	-3.5419E-04	80.40	50.01	141.6	71.16	UL-RL	1.8746E+04	-14.400	115.2	
1.000	1.000	165.2	0.000	0.000	Ug6_741_743_L_0						
74 D	33.27	-4.5988E-04	81.87	48.83	143.4	72.05	UL-RL	1.8746E+04	-14.600	117.5	
1.000	1.000	166.4	0.000	0.000	Ug6_741_743_L_0						
75 D	33.50	-5.6424E-04	83.35	47.67	145.2	72.94	UL-RL	1.8746E+04	-14.800	119.9	
1.000	1.000	167.5	0.000	0.000	Ug6_741_743_L_0						
76 D	33.74	-6.6760E-04	84.82	46.53	147.0	73.84	UL-RL	1.8746E+04	-15.000	122.2	
1.000	1.000	168.7	0.000	0.000	Ug6_741_743_L_0						
77 D	33.98	-7.7025E-04	86.29	45.40	148.8	74.73	UL-RL	1.8746E+04	-15.200	124.5	
1.000	1.000	169.9	0.000	0.000	Ug6_741_743_L_0						
78 D	34.22	-8.7243E-04	87.76	44.29	150.6	75.62	UL-RL	1.8746E+04	-15.400	126.8	
1.000	1.000	171.1	0.000	0.000	Ug6_741_743_L_0						



79 D	34.47	-9.7435E-04	89.24	43.18	152.4	76.51	UL-RL	1.8746E+04	-15.60	129.2
1.000	1.000	172.3	0.000	0.000	Ug6_741_743_L_0					
80 D	34.71	-1.0761E-03	90.71	42.07	154.2	77.40	UL-RL	1.8746E+04	-15.80	131.5
1.000	1.000	173.6	0.000	0.000	Ug6_741_743_L_0					
81 D	17.48	-1.1779E-03	92.18	40.96	156.0	78.29	UL-RL	1.8746E+04	-16.00	133.8
1.000	1.000	174.8	0.000	0.000	Ug6_741_743_L_0					

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|                PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
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New Project

STRESS RESULTS FOR GROUP NO. 3

WallElement\_33 :  
ELEMENT TYPE 2 NO.OF ELEMENTS. IN THIS GROUP 80  
CURRENT TIME IS 6.0000

WALL2D ELEMENT

EL	TA	TB	MA	MB
1	-3.99537E-11	3.99537E-11	-1.50990E-12	6.74817E-10
2	0.45085	-0.45085	-5.10296E-10	9.01693E-02
3	1.3546	-1.3546	-9.01693E-02	0.36108
4	2.7138	-2.7138	-0.36108	0.90383
5	4.5303	-4.5303	-0.90383	1.8099
6	6.8051	-6.8051	-1.8099	3.1709
7	9.5382	-9.5382	-3.1709	5.0786
8	12.735	-12.735	-5.0786	7.6255
9	16.397	-16.397	-7.6255	10.905
10	20.514	-20.514	-10.905	15.008
11	25.092	-25.092	-15.008	20.026
12	30.130	-30.130	-20.026	26.052
13	35.621	-35.621	-26.052	33.176
14	41.569	-41.569	-33.176	41.490
15	47.974	-47.974	-41.490	51.085
16	54.835	-54.835	-51.085	62.052
17	62.147	-62.147	-62.052	74.482
18	69.914	-69.914	-74.482	88.464
19	78.136	-78.136	-88.464	104.09
20	86.809	-86.809	-104.09	121.45
21	95.935	-95.935	-121.45	140.64
22	105.52	-105.52	-140.64	161.74
23	115.55	-115.55	-161.74	184.85
24	124.67	-124.67	-184.85	209.79
25	131.53	-131.53	-209.79	236.09
26	136.12	-136.12	-236.09	263.32
27	138.44	-138.44	-263.32	291.00
28	138.49	-138.49	-291.00	318.70
29	136.28	-136.28	-318.70	345.96
30	131.80	-131.80	-345.96	372.32
31	125.05	-125.05	-372.32	397.33
32	116.03	-116.03	-397.33	420.54
33	104.75	-104.75	-420.54	441.49
34	91.194	-91.194	-441.49	459.72
35	77.134	-77.134	-459.72	475.15
36	63.850	-63.850	-475.15	487.92
37	51.308	-51.308	-487.92	498.18
38	39.480	-39.480	-498.18	506.08
39	28.334	-28.334	-506.08	511.75
40	17.838	-17.838	-511.75	515.31
41	7.9601	-7.9601	-515.31	516.91
42	-1.3304	1.3304	-516.91	516.64
43	-10.067	10.067	-516.64	514.63
44	-18.280	18.280	-514.63	510.97
45	-26.001	26.001	-510.97	505.77
46	-33.261	33.261	-505.77	499.12
47	-40.091	40.091	-499.12	491.10
48	-46.520	46.520	-491.10	481.80
49	-52.578	52.578	-481.80	471.28
50	-58.294	58.294	-471.28	459.62
51	-63.695	63.695	-459.62	446.88
52	-68.809	68.809	-446.88	433.12
53	-73.662	73.662	-433.12	418.39
54	-78.279	78.279	-418.39	402.73
55	-82.684	82.684	-402.73	386.20
56	-86.900	86.900	-386.20	368.82
57	-90.951	90.951	-368.82	350.63
58	-94.856	94.856	-350.63	331.65
59	-98.636	98.636	-331.65	311.93
60	-102.31	102.31	-311.93	291.46
61	-105.89	105.89	-291.46	270.29
62	-106.02	106.02	-270.29	249.08
63	-106.08	106.08	-249.08	227.87
64	-106.08	106.08	-227.87	206.65
65	-105.09	105.09	-206.65	185.63
66	-103.02	103.02	-185.63	165.03
67	-99.912	99.912	-165.03	145.05
68	-95.920	95.920	-145.05	125.86
69	-91.117	91.117	-125.86	107.64

70	-85.685	85.685	-107.64	90.501
71	-79.747	79.747	-90.501	74.551
72	-73.318	73.318	-74.551	59.888
73	-66.412	66.412	-59.888	46.606
74	-59.039	59.039	-46.606	34.798
75	-51.209	51.209	-34.798	24.556
76	-42.927	42.927	-24.556	15.971
77	-34.197	34.197	-15.971	9.1311
78	-25.011	25.011	-9.1311	4.1290
79	-15.370	15.370	-4.1290	1.0550
80	-5.2747	5.2747	-1.0550	-2.45971E-11

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ITER      0  RNORM = 0.000      RMNORM= 0.000
           RINORM=0.1026E+07  RIMNOR=0.1448E+08
           RENORM= 1.337      REMNOR=0.3272E-17  RATIO =0.1142E-02  TOLER =0.1000E-03  NOT CONVERGED
           RFMAX = 138.5      RMMAX = 516.9
           RTSMAL=0.1000E-02  RMSMAL=0.1000E-02
           RDT  =0.1026E+07  RDR  =0.1448E+08
           RATIOI=0.1142E-02  RATIOR= 0.000
           MAX UN=0.5985E-09  IEQ=    8 NODE    4 DOF   2  X-ROT. F
           MIN UN=-.1554     IEQ=   125 NODE   63 DOF   1  Y-DISPL.F
           NO. OF CONTACT CONSTRAINT VIOLATIONS      0

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ITER      2  RNORM = 0.000      RMNORM= 0.000
           RINORM=0.1026E+07  RIMNOR=0.1448E+08
           RENORM=0.6379E-15  REMNOR=0.3314E-17  RATIO =0.2494E-10  TOLER =0.1000E-03  CONVERGED !
           RFMAX = 138.5      RMMAX = 516.9
           RTSMAL=0.1000E-02  RMSMAL=0.1000E-02
           RDT  =0.1026E+07  RDR  =0.1448E+08
           RATIOI=0.2494E-10  RATIOR= 0.000
           MAX UN=0.8051E-08  IEQ=   29 NODE   15 DOF   1  Y-DISPL.F
           MIN UN=-.6871E-08  IEQ=   19 NODE   10 DOF   1  Y-DISPL.F
           NO. OF CONTACT CONSTRAINT VIOLATIONS      0

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
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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   7   ( AT TIME   7.000   )

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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	3.0072206E-02	-3.1661878E-03	
2	2.9438969E-02	-3.1661878E-03	
3	2.8805732E-02	-3.1661808E-03	
4	2.8172498E-02	-3.1661466E-03	
5	2.7539277E-02	-3.1660518E-03	
6	2.6906085E-02	-3.1658503E-03	
7	2.6272948E-02	-3.1654830E-03	
8	2.5639907E-02	-3.1648780E-03	
9	2.5007018E-02	-3.1639504E-03	
10	2.4374355E-02	-3.1626025E-03	
11	2.3742013E-02	-3.1607235E-03	
12	2.3110110E-02	-3.1581900E-03	
13	2.2478790E-02	-3.1548655E-03	
14	2.1848226E-02	-3.1506006E-03	
15	2.1218623E-02	-3.1452331E-03	
16	2.0590218E-02	-3.1385878E-03	
17	1.9963282E-02	-3.1304768E-03	
18	1.9338135E-02	-3.1206992E-03	
19	1.8715128E-02	-3.1090413E-03	
20	1.8094659E-02	-3.0952763E-03	
21	1.7477177E-02	-3.0791648E-03	
22	1.6863170E-02	-3.0604543E-03	
23	1.6253186E-02	-3.0388797E-03	
24	1.5647827E-02	-3.0141628E-03	
25	1.5047749E-02	-2.9860313E-03	
26	1.4453657E-02	-2.9542578E-03	
27	1.3866302E-02	-2.9186793E-03	
28	1.3286449E-02	-2.8791970E-03	
29	1.2714886E-02	-2.8357771E-03	
30	1.2152399E-02	-2.7884502E-03	
31	1.1599760E-02	-2.7373116E-03	
32	1.1057720E-02	-2.6825213E-03	
33	1.0526983E-02	-2.6243031E-03	
34	1.0008208E-02	-2.5629462E-03	
35	9.5019898E-03	-2.4988041E-03	
36	9.0088459E-03	-2.4322698E-03	
37	8.5292178E-03	-2.3637328E-03	
38	8.0634643E-03	-2.2935599E-03	
39	7.6118798E-03	-2.2220984E-03	
40	7.1746890E-03	-2.1496751E-03	
41	6.7520533E-03	-2.0765980E-03	
42	6.3440741E-03	-2.0031571E-03	
43	5.9507965E-03	-1.9296249E-03	
44	5.5722131E-03	-1.8562581E-03	
45	5.2082680E-03	-1.7832980E-03	
46	4.8588535E-03	-1.7109706E-03	
47	4.5238233E-03	-1.6394892E-03	
48	4.2029881E-03	-1.5690542E-03	
49	3.8961193E-03	-1.4998539E-03	
50	3.6029538E-03	-1.4320663E-03	
51	3.3231890E-03	-1.3658577E-03	
52	3.0564884E-03	-1.3013848E-03	
53	2.8025149E-03	-1.2388031E-03	
54	2.5608450E-03	-1.1782460E-03	
55	2.3310724E-03	-1.1198509E-03	
56	2.1127519E-03	-1.0637456E-03	
57	1.9054134E-03	-1.0100520E-03	
58	1.7085625E-03	-9.5888703E-04	
59	1.5216825E-03	-9.1036301E-04	
60	1.3442341E-03	-8.6458838E-04	
61	1.1756568E-03	-8.2166818E-04	
62	1.0153697E-03	-7.8170445E-04	
63	8.6277443E-04	-7.4475010E-04	
64	7.1726875E-04	-7.1080910E-04	
65	5.7824977E-04	-6.7988333E-04	
66	4.4511528E-04	-6.5195971E-04	
67	3.1726858E-04	-6.2699572E-04	
68	1.9412454E-04	-6.0491843E-04	
69	7.5115450E-05	-5.8562746E-04	
70	-4.0303895E-05	-5.6899826E-04	
71	-1.5265163E-04	-5.5488569E-04	
72	-2.6241519E-04	-5.4312840E-04	
73	-3.7004830E-04	-5.3355075E-04	

74	-4.7596816E-04	-5.2596321E-04
75	-5.8055272E-04	-5.2016274E-04
76	-6.8413797E-04	-5.1593303E-04
77	-7.8701536E-04	-5.1304473E-04
78	-8.8942914E-04	-5.1125558E-04
79	-9.9157385E-04	-5.1031036E-04
80	-1.0935917E-03	-5.0994080E-04
81	-1.1955749E-03	-5.0986558E-04

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION *Build date:Jul 11, 2017*          |
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|          NewProject.BaseDesignSection_28.SISMICASTR_1817          |
|          Exe Time :24 May 2018          18:25:49          |
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New Project

STRESS RESULTS FOR GROUP NO. 1

0\_L  
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 81  
CURRENT TIME IS 7.0000

HARDENING 2D SOIL ELEMENT

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

EL * FACTOR	FORCE UFACOR	DISPL-Y Peq	VERTICAL-P Su_a	HORIZON.-P Su_p	MAX-V-P LAYER	MAX-H-P	STATE	STIFFNESS	Z-LEVEL	PORE	E
1 D	0.000	-3.0072E-02	0.000	0.000	0.000	0.000	PASSIVE	0.000	0.000	0.000	
1.000	1.000	0.000	0.000	0.000	Ug5_2_8_L_0						
2 D	0.4882	-2.9439E-02	2.327	0.7683	2.335	1.603	UL-RL	5.0142E+04	-0.2000	1.673	
1.000	1.000	2.441	0.000	0.000	Ug5_2_8_L_0						
3 D	0.9414	-2.8806E-02	4.655	1.362	4.711	3.119	UL-RL	5.0142E+04	-0.4000	3.345	
1.000	1.000	4.707	0.000	0.000	Ug5_2_8_L_0						
4 D	1.395	-2.8172E-02	6.982	1.955	7.140	4.509	UL-RL	5.0142E+04	-0.6000	5.018	
1.000	1.000	6.973	0.000	0.000	Ug5_2_8_L_0						
5 D	1.848	-2.7539E-02	9.309	2.548	9.606	5.780	UL-RL	5.0142E+04	-0.8000	6.691	
1.000	1.000	9.239	0.000	0.000	Ug5_2_8_L_0						
6 D	2.301	-2.6906E-02	11.64	3.142	12.09	6.958	UL-RL	5.0142E+04	-1.000	8.364	
1.000	1.000	11.51	0.000	0.000	Ug5_2_8_L_0						
7 D	2.754	-2.6273E-02	13.96	3.735	14.57	8.073	UL-RL	5.0142E+04	-1.200	10.04	
1.000	1.000	13.77	0.000	0.000	Ug5_2_8_L_0						
8 D	3.207	-2.5640E-02	16.29	4.328	17.17	9.145	UL-RL	5.0142E+04	-1.400	11.71	
1.000	1.000	16.04	0.000	0.000	Ug5_2_8_L_0						
9 D	3.660	-2.5007E-02	18.62	4.921	19.79	10.19	UL-RL	5.0142E+04	-1.600	13.38	
1.000	1.000	18.30	0.000	0.000	Ug5_2_8_L_0						
10 D	4.114	-2.4374E-02	20.95	5.513	22.21	11.22	UL-RL	5.0142E+04	-1.800	15.05	
1.000	1.000	20.57	0.000	0.000	Ug5_2_8_L_0						
11 D	4.567	-2.3742E-02	23.27	6.105	24.76	12.23	UL-RL	5.0142E+04	-2.000	16.73	
1.000	1.000	22.83	0.000	0.000	Ug5_2_8_L_0						
12 D	5.019	-2.3110E-02	25.60	6.697	27.27	13.24	UL-RL	5.0142E+04	-2.200	18.40	
1.000	1.000	25.10	0.000	0.000	Ug5_2_8_L_0						
13 D	5.472	-2.2479E-02	27.93	7.289	29.64	14.24	UL-RL	5.0142E+04	-2.400	20.07	
1.000	1.000	27.36	0.000	0.000	Ug5_2_8_L_0						
14 D	5.925	-2.1848E-02	30.25	7.879	32.11	15.24	UL-RL	5.0142E+04	-2.600	21.75	
1.000	1.000	29.62	0.000	0.000	Ug5_2_8_L_0						
15 D	6.378	-2.1219E-02	32.58	8.470	34.57	16.23	UL-RL	5.0142E+04	-2.800	23.42	
1.000	1.000	31.89	0.000	0.000	Ug5_2_8_L_0						
16 D	6.830	-2.0590E-02	34.91	9.060	37.01	17.23	UL-RL	5.0142E+04	-3.000	25.09	
1.000	1.000	34.15	0.000	0.000	Ug5_2_8_L_0						
17 D	7.283	-1.9963E-02	37.24	9.649	39.34	18.22	UL-RL	5.0142E+04	-3.200	26.76	
1.000	1.000	36.41	0.000	0.000	Ug5_2_8_L_0						
18 D	7.735	-1.9338E-02	39.56	10.24	41.77	19.21	UL-RL	5.0142E+04	-3.400	28.44	
1.000	1.000	38.67	0.000	0.000	Ug5_2_8_L_0						
19 D	8.187	-1.8715E-02	41.89	10.83	44.18	20.21	UL-RL	5.0142E+04	-3.600	30.11	
1.000	1.000	40.93	0.000	0.000	Ug5_2_8_L_0						
20 D	8.639	-1.8095E-02	44.22	11.41	46.51	21.20	UL-RL	5.0142E+04	-3.800	31.78	
1.000	1.000	43.20	0.000	0.000	Ug5_2_8_L_0						
21 D	9.091	-1.7477E-02	46.55	12.00	48.91	22.19	UL-RL	5.0142E+04	-4.000	33.45	
1.000	1.000	45.45	0.000	0.000	Ug5_2_8_L_0						
22 D	9.543	-1.6863E-02	48.87	12.59	51.30	23.18	UL-RL	5.0142E+04	-4.200	35.13	
1.000	1.000	47.71	0.000	0.000	Ug5_2_8_L_0						
23 D	9.994	-1.6253E-02	51.20	13.17	53.63	24.18	UL-RL	5.0142E+04	-4.400	36.80	
1.000	1.000	49.97	0.000	0.000	Ug5_2_8_L_0						
24 D	10.45	-1.5648E-02	53.53	13.76	56.01	25.17	UL-RL	5.0142E+04	-4.600	38.47	
1.000	1.000	52.23	0.000	0.000	Ug5_2_8_L_0						
25 D	10.90	-1.5048E-02	55.85	14.34	58.39	26.17	UL-RL	5.0142E+04	-4.800	40.15	
1.000	1.000	54.49	0.000	0.000	Ug5_2_8_L_0						
26 D	11.35	-1.4454E-02	58.18	14.93	60.77	27.16	UL-RL	5.0142E+04	-5.000	41.82	
1.000	1.000	56.74	0.000	0.000	Ug5_2_8_L_0						
27 D	11.80	-1.3866E-02	60.51	15.51	63.09	28.16	UL-RL	5.0142E+04	-5.200	43.49	
1.000	1.000	59.00	0.000	0.000	Ug5_2_8_L_0						
28 D	12.25	-1.3286E-02	62.84	16.09	65.46	29.16	UL-RL	5.0142E+04	-5.400	45.16	
1.000	1.000	61.26	0.000	0.000	Ug5_2_8_L_0						
29 D	12.70	-1.2715E-02	65.16	16.68	67.83	30.15	UL-RL	5.0142E+04	-5.600	46.84	
1.000	1.000	63.51	0.000	0.000	Ug5_2_8_L_0						
30 D	13.15	-1.2152E-02	67.49	17.26	70.15	31.15	UL-RL	5.0142E+04	-5.800	48.51	
1.000	1.000	65.77	0.000	0.000	Ug5_2_8_L_0						
31 D	13.61	-1.1600E-02	69.82	17.84	72.52	32.15	UL-RL	5.0142E+04	-6.000	50.18	
1.000	1.000	68.03	0.000	0.000	Ug5_2_8_L_0						
32 D	14.06	-1.1058E-02	72.15	18.43	74.88	33.15	UL-RL	5.0142E+04	-6.200	51.85	
1.000	1.000	70.28	0.000	0.000	Ug5_2_8_L_0						
33 D	14.51	-1.0527E-02	74.47	19.01	77.20	34.15	UL-RL	5.0142E+04	-6.400	53.53	

1.000	1.000	72.54	0.000	0.000	Ug5_2_8_L_0					
34 D	14.96	-1.0008E-02	76.80	19.59	79.56	35.15	UL-RL	5.0142E+04	-6.600	55.20
1.000	1.000	74.79	0.000	0.000	Ug5_2_8_L_0					
35 D	15.41	-9.5020E-03	79.13	20.18	81.92	36.15	UL-RL	5.0142E+04	-6.800	56.87
1.000	1.000	77.05	0.000	0.000	Ug5_2_8_L_0					
36 D	15.86	-9.0088E-03	81.45	20.76	84.28	37.16	UL-RL	5.0142E+04	-7.000	58.55
1.000	1.000	79.30	0.000	0.000	Ug5_2_8_L_0					
37 D	16.31	-8.5292E-03	83.78	21.34	86.59	38.16	UL-RL	5.0142E+04	-7.200	60.22
1.000	1.000	81.56	0.000	0.000	Ug5_2_8_L_0					
38 D	16.76	-8.0635E-03	86.11	21.92	88.95	39.16	UL-RL	5.0142E+04	-7.400	61.89
1.000	1.000	83.81	0.000	0.000	Ug5_2_8_L_0					
39 D	17.21	-7.6119E-03	88.44	22.51	91.30	40.17	UL-RL	5.0142E+04	-7.600	63.56
1.000	1.000	86.07	0.000	0.000	Ug5_2_8_L_0					
40 D	17.67	-7.1747E-03	90.76	23.09	93.62	41.17	UL-RL	5.0142E+04	-7.800	65.24
1.000	1.000	88.33	0.000	0.000	Ug5_2_8_L_0					
41 D	18.12	-6.7521E-03	93.09	23.67	95.97	42.18	UL-RL	5.0142E+04	-8.000	66.91
1.000	1.000	90.58	0.000	0.000	Ug5_2_8_L_0					
42 D	18.57	-6.3441E-03	95.42	24.26	98.32	43.19	UL-RL	5.0142E+04	-8.200	68.58
1.000	1.000	92.84	0.000	0.000	Ug5_2_8_L_0					
43 D	19.02	-5.9508E-03	97.75	24.84	100.6	44.19	UL-RL	5.0142E+04	-8.400	70.25
1.000	1.000	95.09	0.000	0.000	Ug5_2_8_L_0					
44 D	19.47	-5.5722E-03	100.1	25.42	103.0	45.20	UL-RL	5.0142E+04	-8.600	71.93
1.000	1.000	97.35	0.000	0.000	Ug5_2_8_L_0					
45 D	19.92	-5.2083E-03	102.4	26.01	105.3	46.21	UL-RL	5.0142E+04	-8.800	73.60
1.000	1.000	99.61	0.000	0.000	Ug5_2_8_L_0					
46 D	20.37	-4.8589E-03	104.7	26.59	107.7	47.22	UL-RL	5.0142E+04	-9.000	75.27
1.000	1.000	101.9	0.000	0.000	Ug5_2_8_L_0					
47 D	20.82	-4.5238E-03	107.1	27.18	110.0	48.23	UL-RL	5.0142E+04	-9.200	76.95
1.000	1.000	104.1	0.000	0.000	Ug5_2_8_L_0					
48 D	21.28	-4.2030E-03	109.4	27.77	112.3	49.24	UL-RL	5.0142E+04	-9.400	78.62
1.000	1.000	106.4	0.000	0.000	Ug5_2_8_L_0					
49 D	21.73	-3.8961E-03	111.7	28.35	114.7	50.26	UL-RL	5.0142E+04	-9.600	80.29
1.000	1.000	108.6	0.000	0.000	Ug5_2_8_L_0					
50 D	22.18	-3.6030E-03	114.0	28.94	117.0	51.27	UL-RL	5.0142E+04	-9.800	81.96
1.000	1.000	110.9	0.000	0.000	Ug5_2_8_L_0					
51 D	22.63	-3.3232E-03	116.4	29.52	119.4	52.28	UL-RL	5.0142E+04	-10.000	83.64
1.000	1.000	113.2	0.000	0.000	Ug5_2_8_L_0					
52 D	23.08	-3.0565E-03	118.7	30.11	121.7	53.29	UL-RL	5.0142E+04	-10.200	85.31
1.000	1.000	115.4	0.000	0.000	Ug5_2_8_L_0					
53 D	23.54	-2.8025E-03	121.0	30.70	124.0	54.31	UL-RL	5.0142E+04	-10.400	86.98
1.000	1.000	117.7	0.000	0.000	Ug5_2_8_L_0					
54 D	23.99	-2.5608E-03	123.3	31.29	126.4	55.32	UL-RL	5.0142E+04	-10.600	88.65
1.000	1.000	119.9	0.000	0.000	Ug5_2_8_L_0					
55 D	24.44	-2.3311E-03	125.7	31.88	128.7	56.34	UL-RL	5.0142E+04	-10.800	90.33
1.000	1.000	122.2	0.000	0.000	Ug5_2_8_L_0					
56 D	24.89	-2.1128E-03	128.0	32.47	131.0	57.35	UL-RL	5.0142E+04	-11.000	92.00
1.000	1.000	124.5	0.000	0.000	Ug5_2_8_L_0					
57 D	25.35	-1.9054E-03	130.3	33.06	133.4	58.37	UL-RL	5.0142E+04	-11.200	93.67
1.000	1.000	126.7	0.000	0.000	Ug5_2_8_L_0					
58 D	25.80	-1.7086E-03	132.7	33.65	135.7	59.39	UL-RL	5.0142E+04	-11.400	95.35
1.000	1.000	129.0	0.000	0.000	Ug5_2_8_L_0					
59 D	26.25	-1.5217E-03	135.0	34.24	138.0	60.40	UL-RL	5.0142E+04	-11.600	97.02
1.000	1.000	131.3	0.000	0.000	Ug5_2_8_L_0					
60 D	26.70	-1.3442E-03	137.3	34.83	140.4	61.42	UL-RL	5.0142E+04	-11.800	98.69
1.000	1.000	133.5	0.000	0.000	Ug5_2_8_L_0					
61 D	27.16	-1.1757E-03	139.6	35.45	142.7	62.44	UL-RL	5.0142E+04	-12.000	100.4
1.000	1.000	135.8	0.000	0.000	Ug5_2_8_L_0					
62 D	30.38	-1.0154E-03	141.8	49.86	144.8	63.42	UL-RL	2.4005E+04	-12.200	102.0
1.000	1.000	151.9	0.000	0.000	Ug6_741_743_L_0					
63 D	30.89	-8.6277E-04	143.9	50.75	147.0	64.53	UL-RL	2.4005E+04	-12.400	103.7
1.000	1.000	154.5	0.000	0.000	Ug6_741_743_L_0					
64 D	31.40	-7.1727E-04	146.0	51.64	149.1	65.58	UL-RL	2.4005E+04	-12.600	105.4
1.000	1.000	157.0	0.000	0.000	Ug6_741_743_L_0					
65 D	32.53	-5.7825E-04	148.1	55.60	151.2	66.59	UL-RL	2.4005E+04	-12.800	107.1
1.000	1.000	162.7	0.000	0.000	Ug6_741_743_L_0					
66 D	33.74	-4.4512E-04	150.3	59.96	153.3	67.57	UL-RL	2.4005E+04	-13.000	108.7
1.000	1.000	168.7	0.000	0.000	Ug6_741_743_L_0					
67 D	34.92	-3.1727E-04	152.4	64.18	155.4	68.78	UL-RL	2.4005E+04	-13.200	110.4
1.000	1.000	174.6	0.000	0.000	Ug6_741_743_L_0					
68 D	35.96	-1.9412E-04	154.5	67.71	157.5	70.56	UL-RL	2.4005E+04	-13.400	112.1
1.000	1.000	179.8	0.000	0.000	Ug6_741_743_L_0					
69 D	36.95	-7.5115E-05	156.7	70.98	159.6	72.13	UL-RL	2.4005E+04	-13.600	113.7
1.000	1.000	184.7	0.000	0.000	Ug6_741_743_L_0					
70 D	37.76	4.0304E-05	158.8	73.40	161.7	73.78	UL-RL	2.4005E+04	-13.800	115.4
1.000	1.000	188.8	0.000	0.000	Ug6_741_743_L_0					
71 D	38.47	1.5265E-04	160.9	75.28	163.8	75.65	UL-RL	2.4005E+04	-14.000	117.1
1.000	1.000	192.4	0.000	0.000	Ug6_741_743_L_0					
72 D	39.18	2.6242E-04	163.0	77.14	165.9	77.50	UL-RL	2.4005E+04	-14.200	118.8
1.000	1.000	195.9	0.000	0.000	Ug6_741_743_L_0					
73 D	39.88	3.7005E-04	165.2	78.97	168.0	79.31	UL-RL	2.4005E+04	-14.400	120.4
1.000	1.000	199.4	0.000	0.000	Ug6_741_743_L_0					
74 D	40.58	4.7597E-04	167.3	80.78	170.1	81.11	UL-RL	2.4005E+04	-14.600	122.1
1.000	1.000	202.9	0.000	0.000	Ug6_741_743_L_0					
75 D	41.27	5.8055E-04	169.4	82.58	172.2	82.90	UL-RL	2.4005E+04	-14.800	123.8
1.000	1.000	206.4	0.000	0.000	Ug6_741_743_L_0					
76 D	41.96	6.8414E-04	171.5	84.37	174.3	84.67	UL-RL	2.4005E+04	-15.000	125.5
1.000	1.000	209.8	0.000	0.000	Ug6_741_743_L_0					
77 D	42.65	7.8702E-04	173.7	86.15	176.4	86.44	UL-RL	2.4005E+04	-15.200	127.1
1.000	1.000	213.3	0.000	0.000	Ug6_741_743_L_0					
78 D	43.36	8.8943E-04	175.8	87.98	178.5	88.26	UL-RL	2.4005E+04	-15.400	128.8
1.000	1.000	216.8	0.000	0.000	Ug6_741_743_L_0					

79 D	44.06	9.9157E-04	177.9	89.81	180.6	90.08	UL-RL	2.4005E+04	-15.60	130.5
1.000	1.000	220.3	0.000	0.000	Ug6_741_743_L_0					
80 D	44.76	1.0936E-03	180.1	91.64	182.7	91.90	UL-RL	2.4005E+04	-15.80	132.1
1.000	1.000	223.8	0.000	0.000	Ug6_741_743_L_0					
81 D	22.73	1.1956E-03	182.2	93.47	184.8	93.71	UL-RL	2.4005E+04	-16.00	133.8
1.000	1.000	227.3	0.000	0.000	Ug6_741_743_L_0					



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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*          |
|                                                                                                                                            |
|                                                                                                                                            |
|          NewProject.BaseDesignSection_28.SISMICASTR_1817          |
|          Exe Time :24 May 2018          18:25:49          |
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New Project

STRESS RESULTS FOR GROUP NO. 2

0\_R :  
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 81  
CURRENT TIME IS 7.0000

HARDENING 2D SOIL ELEMENT

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

EL * FACTOR	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
1	0.000	--	--	--	--	--	REMOVED	--	0.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
2	0.000	--	--	--	--	--	REMOVED	--	-0.2000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
3	0.000	--	--	--	--	--	REMOVED	--	-0.4000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
4	0.000	--	--	--	--	--	REMOVED	--	-0.6000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
5	0.000	--	--	--	--	--	REMOVED	--	-0.8000	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	--	-1.200	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
8	0.000	--	--	--	--	--	REMOVED	--	-1.400	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
9	0.000	--	--	--	--	--	REMOVED	--	-1.600	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
10	0.000	--	--	--	--	--	REMOVED	--	-1.800	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
11	0.000	--	--	--	--	--	REMOVED	--	-2.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
12	0.000	--	--	--	--	--	REMOVED	--	-2.200	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
13	0.000	--	--	--	--	--	REMOVED	--	-2.400	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
14	0.000	--	--	--	--	--	REMOVED	--	-2.600	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
15	0.000	--	--	--	--	--	REMOVED	--	-2.800	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
16	0.000	--	--	--	--	--	REMOVED	--	-3.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
17	0.000	--	--	--	--	--	REMOVED	--	-3.200	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
18	0.000	--	--	--	--	--	REMOVED	--	-3.400	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
19	0.000	--	--	--	--	--	REMOVED	--	-3.600	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
20	0.000	--	--	--	--	--	REMOVED	--	-3.800	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
21	0.000	--	--	--	--	--	REMOVED	--	-4.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
22	0.000	--	--	--	--	--	REMOVED	--	-4.200	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
23	0.000	--	--	--	--	--	REMOVED	--	-4.400	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
24 D	1.317	1.5648E-02	0.8364	5.422	46.00	63.03	UL-RL	2.4929E+04	-4.600	1.164	
1.000	1.000	6.586	0.000	0.000	Ug5_2_8_L_0						
25 D	4.036	1.5048E-02	2.509	16.69	48.00	61.64	UL-RL	2.4929E+04	-4.800	3.491	
1.000	1.000	20.18	0.000	0.000	Ug5_2_8_L_0						
26 D	6.755	1.4454E-02	4.182	27.96	50.00	60.31	UL-RL	2.4929E+04	-5.000	5.818	
1.000	1.000	33.78	0.000	0.000	Ug5_2_8_L_0						
27 D	9.475	1.3866E-02	5.855	39.23	52.00	69.31	UL-RL	2.4929E+04	-5.200	8.145	
1.000	1.000	47.37	0.000	0.000	Ug5_2_8_L_0						
28 D	12.19	1.3286E-02	7.527	50.50	54.00	80.86	UL-RL	2.4929E+04	-5.400	10.47	
1.000	1.000	60.97	0.000	0.000	Ug5_2_8_L_0						
29 D	14.91	1.2715E-02	9.200	61.76	56.00	92.41	UL-RL	2.4929E+04	-5.600	12.80	
1.000	1.000	74.56	0.000	0.000	Ug5_2_8_L_0						
30 D	17.63	1.2152E-02	10.87	73.03	58.00	101.5	UL-RL	2.4929E+04	-5.800	15.13	
1.000	1.000	88.16	0.000	0.000	Ug5_2_8_L_0						
31 D	20.35	1.1600E-02	12.55	84.30	60.00	98.41	UL-RL	2.4929E+04	-6.000	17.45	
1.000	1.000	101.8	0.000	0.000	Ug5_2_8_L_0						
32 D	23.07	1.1058E-02	14.22	95.57	62.00	95.80	UL-RL	2.4929E+04	-6.200	19.78	
1.000	1.000	115.4	0.000	0.000	Ug5_2_8_L_0						
33 D	25.79	1.0527E-02	15.89	106.8	64.00	107.1	UL-RL	2.4929E+04	-6.400	22.11	

1.000	1.000	129.0	0.000	0.000	Ug5_2_8_L_0					
34 D	28.51	1.0008E-02	17.56	118.1	66.00	118.3	UL-RL	2.4929E+04	-6.600	24.44
1.000	1.000	142.5	0.000	0.000	Ug5_2_8_L_0					
35 D	29.47	9.5020E-03	19.24	120.6	68.00	120.8	UL-RL	2.4929E+04	-6.800	26.76
1.000	1.000	147.3	0.000	0.000	Ug5_2_8_L_0					
36 D	29.14	9.0088E-03	20.91	116.6	70.00	116.9	UL-RL	2.4929E+04	-7.000	29.09
1.000	1.000	145.7	0.000	0.000	Ug5_2_8_L_0					
37 D	28.85	8.5292E-03	22.58	112.8	72.00	113.1	UL-RL	2.4929E+04	-7.200	31.42
1.000	1.000	144.3	0.000	0.000	Ug5_2_8_L_0					
38 D	28.59	8.0635E-03	24.25	109.2	74.00	109.4	UL-RL	2.4929E+04	-7.400	33.75
1.000	1.000	142.9	0.000	0.000	Ug5_2_8_L_0					
39 D	28.36	7.6119E-03	25.93	105.7	76.00	106.0	UL-RL	2.4929E+04	-7.600	36.07
1.000	1.000	141.8	0.000	0.000	Ug5_2_8_L_0					
40 D	28.16	7.1747E-03	27.60	102.4	78.00	102.6	UL-RL	2.4929E+04	-7.800	38.40
1.000	1.000	140.8	0.000	0.000	Ug5_2_8_L_0					
41 D	27.99	6.7521E-03	29.27	99.22	80.00	99.47	UL-RL	2.4929E+04	-8.000	40.73
1.000	1.000	139.9	0.000	0.000	Ug5_2_8_L_0					
42 D	27.85	6.3441E-03	30.95	96.21	82.00	96.46	UL-RL	2.4929E+04	-8.200	43.05
1.000	1.000	139.3	0.000	0.000	Ug5_2_8_L_0					
43 D	27.75	5.9508E-03	32.62	93.37	84.00	93.62	UL-RL	2.4929E+04	-8.400	45.38
1.000	1.000	138.7	0.000	0.000	Ug5_2_8_L_0					
44 D	27.68	5.5722E-03	34.29	90.68	86.00	90.93	UL-RL	2.4929E+04	-8.600	47.71
1.000	1.000	138.4	0.000	0.000	Ug5_2_8_L_0					
45 D	27.64	5.2083E-03	35.96	88.14	88.00	88.40	UL-RL	2.4929E+04	-8.800	50.04
1.000	1.000	138.2	0.000	0.000	Ug5_2_8_L_0					
46 D	27.63	4.8589E-03	37.64	85.76	90.00	86.02	UL-RL	2.4929E+04	-9.000	52.36
1.000	1.000	138.1	0.000	0.000	Ug5_2_8_L_0					
47 D	27.65	4.5238E-03	39.31	83.53	92.00	83.79	UL-RL	2.4929E+04	-9.200	54.69
1.000	1.000	138.2	0.000	0.000	Ug5_2_8_L_0					
48 D	27.70	4.2030E-03	40.98	81.46	94.00	81.72	UL-RL	2.4929E+04	-9.400	57.02
1.000	1.000	138.5	0.000	0.000	Ug5_2_8_L_0					
49 D	27.77	3.8961E-03	42.65	79.53	96.00	79.79	UL-RL	2.4929E+04	-9.600	59.35
1.000	1.000	138.9	0.000	0.000	Ug5_2_8_L_0					
50 D	27.88	3.6030E-03	44.33	77.74	98.00	78.01	UL-RL	2.4929E+04	-9.800	61.67
1.000	1.000	139.4	0.000	0.000	Ug5_2_8_L_0					
51 D	28.02	3.3232E-03	46.00	76.09	100.00	76.36	UL-RL	2.4929E+04	-10.000	64.00
1.000	1.000	140.1	0.000	0.000	Ug5_2_8_L_0					
52 D	28.18	3.0565E-03	47.67	74.57	102.0	74.85	UL-RL	2.4929E+04	-10.200	66.33
1.000	1.000	140.9	0.000	0.000	Ug5_2_8_L_0					
53 D	28.37	2.8025E-03	49.35	73.19	104.0	73.47	UL-RL	2.4929E+04	-10.400	68.65
1.000	1.000	141.8	0.000	0.000	Ug5_2_8_L_0					
54 D	28.58	2.5608E-03	51.02	71.93	106.0	72.22	UL-RL	2.4929E+04	-10.600	70.98
1.000	1.000	142.9	0.000	0.000	Ug5_2_8_L_0					
55 D	28.82	2.3311E-03	52.69	70.80	108.0	71.09	UL-RL	2.4929E+04	-10.800	73.31
1.000	1.000	144.1	0.000	0.000	Ug5_2_8_L_0					
56 D	29.08	2.1128E-03	54.36	69.78	110.0	70.07	UL-RL	2.4929E+04	-11.000	75.64
1.000	1.000	145.4	0.000	0.000	Ug5_2_8_L_0					
57 D	29.37	1.9054E-03	56.04	68.87	112.0	69.17	UL-RL	2.4929E+04	-11.200	77.96
1.000	1.000	146.8	0.000	0.000	Ug5_2_8_L_0					
58 D	29.67	1.7086E-03	57.71	68.06	114.0	68.37	UL-RL	2.4929E+04	-11.400	80.29
1.000	1.000	148.4	0.000	0.000	Ug5_2_8_L_0					
59 D	30.00	1.5217E-03	59.38	67.36	116.0	67.67	UL-RL	2.4929E+04	-11.600	82.62
1.000	1.000	150.0	0.000	0.000	Ug5_2_8_L_0					
60 D	30.34	1.3442E-03	61.05	66.75	118.0	67.07	UL-RL	2.4929E+04	-11.800	84.95
1.000	1.000	151.7	0.000	0.000	Ug5_2_8_L_0					
61 D	30.70	1.1757E-03	62.73	66.21	120.0	66.55	UL-RL	2.4929E+04	-12.000	87.27
1.000	1.000	153.5	0.000	0.000	Ug5_2_8_L_0					
62 D	30.56	1.0154E-03	64.20	63.20	121.8	63.50	UL-RL	1.8746E+04	-12.200	89.60
1.000	1.000	152.8	0.000	0.000	Ug6_741_743_L_0					
63 D	30.99	8.6277E-04	65.67	63.03	123.6	63.38	UL-RL	1.8746E+04	-12.400	91.93
1.000	1.000	155.0	0.000	0.000	Ug6_741_743_L_0					
64 D	31.43	7.1727E-04	67.15	62.92	125.4	63.32	UL-RL	1.8746E+04	-12.600	94.25
1.000	1.000	157.2	0.000	0.000	Ug6_741_743_L_0					
65 D	31.58	5.7825E-04	68.62	61.34	127.2	64.05	UL-RL	1.8746E+04	-12.800	96.58
1.000	1.000	157.9	0.000	0.000	Ug6_741_743_L_0					
66 D	31.70	4.4512E-04	70.09	59.58	129.0	64.94	UL-RL	1.8746E+04	-13.000	98.91
1.000	1.000	158.5	0.000	0.000	Ug6_741_743_L_0					
67 D	31.83	3.1727E-04	71.56	57.93	130.8	65.83	UL-RL	1.8746E+04	-13.200	101.2
1.000	1.000	159.2	0.000	0.000	Ug6_741_743_L_0					
68 D	31.99	1.9412E-04	73.04	56.38	132.6	66.72	UL-RL	1.8746E+04	-13.400	103.6
1.000	1.000	159.9	0.000	0.000	Ug6_741_743_L_0					
69 D	32.16	7.5115E-05	74.51	54.92	134.4	67.60	UL-RL	1.8746E+04	-13.600	105.9
1.000	1.000	160.8	0.000	0.000	Ug6_741_743_L_0					
70 D	32.35	-4.0304E-05	75.98	53.53	136.2	68.49	UL-RL	1.8746E+04	-13.800	108.2
1.000	1.000	161.8	0.000	0.000	Ug6_741_743_L_0					
71 D	32.55	-1.5265E-04	77.45	52.21	138.0	69.38	UL-RL	1.8746E+04	-14.000	110.5
1.000	1.000	162.8	0.000	0.000	Ug6_741_743_L_0					
72 D	32.76	-2.6242E-04	78.93	50.94	139.8	70.27	UL-RL	1.8746E+04	-14.200	112.9
1.000	1.000	163.8	0.000	0.000	Ug6_741_743_L_0					
73 D	32.98	-3.7005E-04	80.40	49.72	141.6	71.16	UL-RL	1.8746E+04	-14.400	115.2
1.000	1.000	164.9	0.000	0.000	Ug6_741_743_L_0					
74 D	33.21	-4.7597E-04	81.87	48.53	143.4	72.05	UL-RL	1.8746E+04	-14.600	117.5
1.000	1.000	166.1	0.000	0.000	Ug6_741_743_L_0					
75 D	33.44	-5.8055E-04	83.35	47.36	145.2	72.94	UL-RL	1.8746E+04	-14.800	119.9
1.000	1.000	167.2	0.000	0.000	Ug6_741_743_L_0					
76 D	33.68	-6.8414E-04	84.82	46.22	147.0	73.84	UL-RL	1.8746E+04	-15.000	122.2
1.000	1.000	168.4	0.000	0.000	Ug6_741_743_L_0					
77 D	33.92	-7.8702E-04	86.29	45.09	148.8	74.73	UL-RL	1.8746E+04	-15.200	124.5
1.000	1.000	169.6	0.000	0.000	Ug6_741_743_L_0					
78 D	34.16	-8.8943E-04	87.76	43.97	150.6	75.62	UL-RL	1.8746E+04	-15.400	126.8
1.000	1.000	170.8	0.000	0.000	Ug6_741_743_L_0					

79 D	34.40	-9.9157E-04	89.24	42.86	152.4	76.51	UL-RL	1.8746E+04	-15.60	129.2
1.000	1.000	172.0	0.000	0.000	Ug6_741_743_L_0					
80 D	34.65	-1.0936E-03	90.71	41.74	154.2	77.40	UL-RL	1.8746E+04	-15.80	131.5
1.000	1.000	173.2	0.000	0.000	Ug6_741_743_L_0					
81 D	17.44	-1.1956E-03	92.18	40.63	156.0	78.29	UL-RL	1.8746E+04	-16.00	133.8
1.000	1.000	174.4	0.000	0.000	Ug6_741_743_L_0					

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|           PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017* |
|                                                                           |
|                                                                           |
|           NewProject.BaseDesignSection_28.SISMICASTR_1817 |
|           Exe Time :24 May 2018      18:25:49 |
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```

New Project

STRESS RESULTS FOR GROUP NO. 3

WallElement\_33 :  
ELEMENT TYPE 2 NO.OF ELEMENTS. IN THIS GROUP 80  
CURRENT TIME IS 7.0000

WALL2D ELEMENT

EL	TA	TB	MA	MB
1	2.06160E-09	-2.06160E-09	2.05642E-10	8.88122E-10
2	0.48820	-0.48820	-8.94242E-10	9.76400E-02
3	1.4296	-1.4296	-9.76400E-02	0.38356
4	2.8243	-2.8243	-0.38356	0.94842
5	4.6721	-4.6721	-0.94842	1.8828
6	6.9731	-6.9731	-1.8828	3.2775
7	9.7274	-9.7274	-3.2775	5.2229
8	12.935	-12.935	-5.2229	7.8099
9	16.595	-16.595	-7.8099	11.129
10	20.709	-20.709	-11.129	15.271
11	25.275	-25.275	-15.271	20.326
12	30.295	-30.295	-20.326	26.385
13	35.767	-35.767	-26.385	33.538
14	41.692	-41.692	-33.538	41.876
15	48.069	-48.069	-41.876	51.490
16	54.900	-54.900	-51.490	62.470
17	62.182	-62.182	-62.470	74.907
18	69.917	-69.917	-74.907	88.890
19	78.104	-78.104	-88.890	104.51
20	86.743	-86.743	-104.51	121.86
21	95.834	-95.834	-121.86	141.03
22	105.38	-105.38	-141.03	162.10
23	115.37	-115.37	-162.10	185.18
24	124.50	-124.50	-185.18	210.08
25	131.36	-131.36	-210.08	236.35
26	135.95	-135.95	-236.35	263.54
27	138.28	-138.28	-263.54	291.20
28	138.34	-138.34	-291.20	318.86
29	136.13	-136.13	-318.86	346.09
30	131.65	-131.65	-346.09	372.42
31	124.90	-124.90	-372.42	397.40
32	115.89	-115.89	-397.40	420.58
33	104.61	-104.61	-420.58	441.50
34	91.056	-91.056	-441.50	459.71
35	76.999	-76.999	-459.71	475.11
36	63.717	-63.717	-475.11	487.85
37	51.178	-51.178	-487.85	498.09
38	39.353	-39.353	-498.09	505.96
39	28.211	-28.211	-505.96	511.60
40	17.718	-17.718	-511.60	515.15
41	7.8451	-7.8451	-515.15	516.71
42	-1.4409	1.4409	-516.71	516.43
43	-10.171	10.171	-516.43	514.39
44	-18.378	18.378	-514.39	510.72
45	-26.092	26.092	-510.72	505.50
46	-33.343	33.343	-505.50	498.83
47	-40.164	40.164	-498.83	490.80
48	-46.582	46.582	-490.80	481.48
49	-52.628	52.628	-481.48	470.95
50	-58.330	58.330	-470.95	459.29
51	-63.715	63.715	-459.29	446.55
52	-68.811	68.811	-446.55	432.78
53	-73.644	73.644	-432.78	418.05
54	-78.238	78.238	-418.05	402.41
55	-82.619	82.619	-402.41	385.88
56	-86.808	86.808	-385.88	368.52
57	-90.829	90.829	-368.52	350.36
58	-94.701	94.701	-350.36	331.42
59	-98.446	98.446	-331.42	311.73
60	-102.08	102.08	-311.73	291.31
61	-105.62	105.62	-291.31	270.19
62	-105.80	105.80	-270.19	249.03
63	-105.90	105.90	-249.03	227.85
64	-105.93	105.93	-227.85	206.66
65	-104.98	104.98	-206.66	185.67
66	-102.94	102.94	-185.67	165.08
67	-99.855	99.855	-165.08	145.11
68	-95.887	95.887	-145.11	125.93
69	-91.104	91.104	-125.93	107.71

70	-85.692	85.692	-107.71	90.573
71	-79.769	79.769	-90.573	74.619
72	-73.352	73.352	-74.619	59.949
73	-66.455	66.455	-59.949	46.658
74	-59.088	59.088	-46.658	34.840
75	-51.260	51.260	-34.840	24.588
76	-42.976	42.976	-24.588	15.993
77	-34.241	34.241	-15.993	9.1449
78	-25.046	25.046	-9.1449	4.1356
79	-15.394	15.394	-4.1356	1.0568
80	-5.2837	5.2837	-1.0568	-7.56184E-12

```
+-----+
|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*          |
|                                                                                                                                            |
|                                                                                                                                            |
|                                                                                                                                            |
|          NewProject.BaseDesignSection_28.SISMICASTR_1817          |
|          Exe Time :24 May 2018          18:25:49          |
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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	5
4	CONVERGENCE :YES	5
5	CONVERGENCE :YES	6
6	CONVERGENCE :YES	6
7	CONVERGENCE :YES	2

END OF PROCESS FOR PROBLEM

New Project

NONLINEAR SOLUTION CPU TIME .... 0.07 [sec]

DATABASE CREATION CPU TIME..... 0.27 [sec]

# Design Assumption : SISMICA GEO - File di Paratie - File di output (.out)

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+-----+
|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|          NewProject.BaseDesignSection_28.SISMICAGEO_1847  |
|          Exe Time :24 May 2018          18:25:50  |
+-----+
```

```
*****
*
*  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  2017.1  *Build date:Jul 11, 2017*  *
*
*
*  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_28.SISMICAGEO_1847
STARTING
ACCEPTED <FILE,GENW >
ACCEPTED <FILE,PLOTTER,BINARY >
ACCEPTED <SOLVE TOTAL_STRESS >
ACCEPTED <PARAM ITEMAX 40 >
ACCEPTED <CONTROL HINGES 0 0.0001 0.001 >
```

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

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PRELIMINARY OPERATIONS CPU TIME 0.00 [sec]
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+-----+
|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*          |
|                                                                                                                                           |
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|                                                                                                                                           |
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INPUT FILE HAS BEEN GENERATED BY WALGEN PROGRAM

New Project

```

NO. OF NODAL POINTS (NUMNP) ..... 81
NO. OF COORDINATES (NCOORD)..... 2
NO. OF NODE DOFS (NDOF)..... 2
NO. OF EQUATIONS (NEQ)..... 162
NO. OF CONSTRAINTS CARDS (NVINC)..... 0
NO. OF ELEMENT GROUPS (NEG)..... 3
NO. OF SOLUTION STEPS (NSTE)..... 7
NO. OF ELEMENT SETS ATTACHED TO SLAVE NODES ... 0
NO. OF RECORD FROM WALGEN ..... 102
NO. OF LONG NAMES (LASTNAME) ..... 22
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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+-----+
|                PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                |                |                |                |                |                |
|                |                |                |                |                |                |
|                |                |                |                |                |                |
|                |                |                |                |                |                |
|                |                |                |                |                |                |
|                |                |                |                |                |                |
+-----+
```

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     102

```
1 : UNIT m kN
2 : TITLE New Project
3 : DELTA 0.2
4 : option param itemax 40
5 : option control hinges 0 0.0001 0.001
6 : WALL LeftWall_32 0 -16 0 1
7 : SOIL 0_L LeftWall_32 -16 0 1 0
8 : SOIL 0_R LeftWall_32 -16 0 2 180
9 : LDATA Ug5_2_8_L_0 0 LeftWall_32
10 : ATREST 0.5 0.5 1
11 : WEIGHT 19 10 10
12 : PERMEABILITY 0.0001
13 : RESISTANCE 0 37
14 : YOUNG 5E+04 1.5E+05
15 : ENDL
16 : LDATA Ug6_741_743_L_0 -12 LeftWall_32
17 : ATREST 0.5 0.5 1
18 : WEIGHT 18.5 9 10
19 : PERMEABILITY 0.0001
20 : RESISTANCE 5 26
21 : YOUNG 3E+04 9E+04
22 : ENDL
23 : MATERIAL S355_114 2.1E+08
24 : MATERIAL C2530_104 3.148E+07
25 : BEAM WallElement_33 LeftWall_32 -16 0 C2530_104 0.8121 00 00 0
26 : STRIP LeftWall_32 1 6 1 11.75 0 5 45
27 : STEP Stage1_31
28 : CHANGE Ug5_2_8_L_0 U-FRICT=31.08 LeftWall_32
29 : CHANGE Ug5_2_8_L_0 D-FRICT=31.08 LeftWall_32
30 : CHANGE Ug5_2_8_L_0 U-KA=0.319 LeftWall_32
31 : CHANGE Ug5_2_8_L_0 U-KP=4.578 LeftWall_32
32 : CHANGE Ug5_2_8_L_0 D-KA=0.319 LeftWall_32
33 : CHANGE Ug5_2_8_L_0 D-KP=4.578 LeftWall_32
34 : CHANGE Ug6_741_743_L_0 U-FRICT=21.32 LeftWall_32
35 : CHANGE Ug6_741_743_L_0 D-FRICT=21.32 LeftWall_32
36 : CHANGE Ug6_741_743_L_0 U-KA=0.467 LeftWall_32
37 : CHANGE Ug6_741_743_L_0 U-KP=2.649 LeftWall_32
38 : CHANGE Ug6_741_743_L_0 D-KA=0.467 LeftWall_32
39 : CHANGE Ug6_741_743_L_0 D-KP=2.649 LeftWall_32
40 : CHANGE Ug5_2_8_L_0 U-COHE=0 LeftWall_32
41 : CHANGE Ug5_2_8_L_0 D-COHE=0 LeftWall_32
42 : CHANGE Ug6_741_743_L_0 U-COHE=4 LeftWall_32
43 : CHANGE Ug6_741_743_L_0 D-COHE=4 LeftWall_32
44 : SETWALL LeftWall_32
45 : GEOM 0 0
46 : WATER 0 0 -16 0 0
47 : ADD WallElement_33
48 : ENDSTEP
49 : STEP Stage2_158
50 : CHANGE Ug5_2_8_L_0 D-FRICT=31.08 LeftWall_32
51 : CHANGE Ug6_741_743_L_0 D-FRICT=21.32 LeftWall_32
52 : CHANGE Ug5_2_8_L_0 D-COHE=0 LeftWall_32
53 : CHANGE Ug6_741_743_L_0 D-COHE=4 LeftWall_32
54 : SETWALL LeftWall_32
55 : GEOM 0 -1
56 : WATER 0 1 -16 0 0
57 : ENDSTEP
58 : STEP Stage3_255
59 : CHANGE Ug5_2_8_L_0 D-FRICT=31.08 LeftWall_32
60 : CHANGE Ug6_741_743_L_0 D-FRICT=21.32 LeftWall_32
61 : CHANGE Ug5_2_8_L_0 D-COHE=0 LeftWall_32
62 : CHANGE Ug6_741_743_L_0 D-COHE=4 LeftWall_32
63 : SETWALL LeftWall_32
64 : GEOM 0 -2
65 : WATER 0 2 -16 0 0
66 : ENDSTEP
67 : STEP Stage4_352
68 : CHANGE Ug5_2_8_L_0 D-FRICT=31.08 LeftWall_32
69 : CHANGE Ug6_741_743_L_0 D-FRICT=21.32 LeftWall_32
70 : CHANGE Ug5_2_8_L_0 D-COHE=0 LeftWall_32
71 : CHANGE Ug6_741_743_L_0 D-COHE=4 LeftWall_32
72 : SETWALL LeftWall_32
73 : GEOM 0 -3
74 : WATER 0 3 -16 0 0
75 : ENDSTEP
76 : STEP Stage5_449
77 : CHANGE Ug5_2_8_L_0 D-FRICT=31.08 LeftWall_32
78 : CHANGE Ug6_741_743_L_0 D-FRICT=21.32 LeftWall_32
```

```
79 : CHANGE Ug5_2_8_L_0 D-COHE=0 LeftWall_32
80 : CHANGE Ug6_741_743_L_0 D-COHE=4 LeftWall_32
81 : SETWALL LeftWall_32
82 : GEOM 0 -4
83 : WATER 0 4 -16 0 0
84 : ENDSTEP
85 : STEP Stage6_546
86 : CHANGE Ug5_2_8_L_0 D-FRICT=31.08 LeftWall_32
87 : CHANGE Ug6_741_743_L_0 D-FRICT=21.32 LeftWall_32
88 : CHANGE Ug5_2_8_L_0 D-COHE=0 LeftWall_32
89 : CHANGE Ug6_741_743_L_0 D-COHE=4 LeftWall_32
90 : SETWALL LeftWall_32
91 : GEOM 0 -4.5
92 : WATER 0 4.5 -16 0 0
93 : ENDSTEP
94 : STEP Stage7_643
95 : CHANGE Ug5_2_8_L_0 D-FRICT=31.08 LeftWall_32
96 : CHANGE Ug6_741_743_L_0 D-FRICT=21.32 LeftWall_32
97 : CHANGE Ug5_2_8_L_0 D-COHE=0 LeftWall_32
98 : CHANGE Ug6_741_743_L_0 D-COHE=4 LeftWall_32
99 : SETWALL LeftWall_32
100 : GEOM 0 -4.5
101 : WATER 0 4.5 -16 0 0
102 : ENDSTEP
```



```

+-----+
|          PARATIEPLUS(TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|                                                                                               |
|          NewProject.BaseDesignSection_28.SISMICAGEO_1847  |
|          Exe Time :24 May 2018          18:25:50  |
+-----+

```

ELEMENT GROUP NO. 1

```

0_L
  5 81 0 1 0 0 0 0 0 0 0 0 0 0 2 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
7 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

```

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	1	0.2000	0.000	0.000	0.000	1.000
22	22	1	0.2000	0.000	0.000	0.000	1.000
23	23	1	0.2000	0.000	0.000	0.000	1.000
24	24	1	0.2000	0.000	0.000	0.000	1.000
25	25	1	0.2000	0.000	0.000	0.000	1.000
26	26	1	0.2000	0.000	0.000	0.000	1.000
27	27	1	0.2000	0.000	0.000	0.000	1.000
28	28	1	0.2000	0.000	0.000	0.000	1.000
29	29	1	0.2000	0.000	0.000	0.000	1.000
30	30	1	0.2000	0.000	0.000	0.000	1.000
31	31	1	0.2000	0.000	0.000	0.000	1.000
32	32	1	0.2000	0.000	0.000	0.000	1.000
33	33	1	0.2000	0.000	0.000	0.000	1.000
34	34	1	0.2000	0.000	0.000	0.000	1.000
35	35	1	0.2000	0.000	0.000	0.000	1.000
36	36	1	0.2000	0.000	0.000	0.000	1.000
37	37	1	0.2000	0.000	0.000	0.000	1.000
38	38	1	0.2000	0.000	0.000	0.000	1.000
39	39	1	0.2000	0.000	0.000	0.000	1.000
40	40	1	0.2000	0.000	0.000	0.000	1.000
41	41	1	0.2000	0.000	0.000	0.000	1.000
42	42	1	0.2000	0.000	0.000	0.000	1.000
43	43	1	0.2000	0.000	0.000	0.000	1.000
44	44	1	0.2000	0.000	0.000	0.000	1.000
45	45	1	0.2000	0.000	0.000	0.000	1.000

46	46	1	0.2000	0.000	0.000	0.000	0.000	1.000
47	47	1	0.2000	0.000	0.000	0.000	0.000	1.000
48	48	1	0.2000	0.000	0.000	0.000	0.000	1.000
49	49	1	0.2000	0.000	0.000	0.000	0.000	1.000
50	50	1	0.2000	0.000	0.000	0.000	0.000	1.000
51	51	1	0.2000	0.000	0.000	0.000	0.000	1.000
52	52	1	0.2000	0.000	0.000	0.000	0.000	1.000
53	53	1	0.2000	0.000	0.000	0.000	0.000	1.000
54	54	1	0.2000	0.000	0.000	0.000	0.000	1.000
55	55	1	0.2000	0.000	0.000	0.000	0.000	1.000
56	56	1	0.2000	0.000	0.000	0.000	0.000	1.000
57	57	1	0.2000	0.000	0.000	0.000	0.000	1.000
58	58	1	0.2000	0.000	0.000	0.000	0.000	1.000
59	59	1	0.2000	0.000	0.000	0.000	0.000	1.000
60	60	1	0.2000	0.000	0.000	0.000	0.000	1.000
61	61	1	0.2000	0.000	0.000	0.000	0.000	1.000
62	62	2	0.2000	0.000	0.000	0.000	0.000	1.000
63	63	2	0.2000	0.000	0.000	0.000	0.000	1.000
64	64	2	0.2000	0.000	0.000	0.000	0.000	1.000
65	65	2	0.2000	0.000	0.000	0.000	0.000	1.000
66	66	2	0.2000	0.000	0.000	0.000	0.000	1.000
67	67	2	0.2000	0.000	0.000	0.000	0.000	1.000
68	68	2	0.2000	0.000	0.000	0.000	0.000	1.000
69	69	2	0.2000	0.000	0.000	0.000	0.000	1.000
70	70	2	0.2000	0.000	0.000	0.000	0.000	1.000
71	71	2	0.2000	0.000	0.000	0.000	0.000	1.000
72	72	2	0.2000	0.000	0.000	0.000	0.000	1.000
73	73	2	0.2000	0.000	0.000	0.000	0.000	1.000
74	74	2	0.2000	0.000	0.000	0.000	0.000	1.000
75	75	2	0.2000	0.000	0.000	0.000	0.000	1.000
76	76	2	0.2000	0.000	0.000	0.000	0.000	1.000
77	77	2	0.2000	0.000	0.000	0.000	0.000	1.000
78	78	2	0.2000	0.000	0.000	0.000	0.000	1.000
79	79	2	0.2000	0.000	0.000	0.000	0.000	1.000
80	80	2	0.2000	0.000	0.000	0.000	0.000	1.000
81	81	2	0.1000	0.000	0.000	0.000	0.000	1.000

```

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|                                                                                               |
|          NewProject.BaseDesignSection_28.SISMICAGEO_1847  |
|          Exe Time :24 May 2018          18:25:50  |
+-----+

```

ELEMENT GROUP NO. 2

```

0_R
  5 81 0 1 0 0 0 0 0 0 0 0 0 0 2 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
7 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

```

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	1	0.2000	0.000	0.000	0.000	2.000
22	22	1	0.2000	0.000	0.000	0.000	2.000
23	23	1	0.2000	0.000	0.000	0.000	2.000
24	24	1	0.2000	0.000	0.000	0.000	2.000
25	25	1	0.2000	0.000	0.000	0.000	2.000
26	26	1	0.2000	0.000	0.000	0.000	2.000
27	27	1	0.2000	0.000	0.000	0.000	2.000
28	28	1	0.2000	0.000	0.000	0.000	2.000
29	29	1	0.2000	0.000	0.000	0.000	2.000
30	30	1	0.2000	0.000	0.000	0.000	2.000
31	31	1	0.2000	0.000	0.000	0.000	2.000
32	32	1	0.2000	0.000	0.000	0.000	2.000
33	33	1	0.2000	0.000	0.000	0.000	2.000
34	34	1	0.2000	0.000	0.000	0.000	2.000
35	35	1	0.2000	0.000	0.000	0.000	2.000
36	36	1	0.2000	0.000	0.000	0.000	2.000
37	37	1	0.2000	0.000	0.000	0.000	2.000
38	38	1	0.2000	0.000	0.000	0.000	2.000
39	39	1	0.2000	0.000	0.000	0.000	2.000
40	40	1	0.2000	0.000	0.000	0.000	2.000
41	41	1	0.2000	0.000	0.000	0.000	2.000
42	42	1	0.2000	0.000	0.000	0.000	2.000
43	43	1	0.2000	0.000	0.000	0.000	2.000
44	44	1	0.2000	0.000	0.000	0.000	2.000
45	45	1	0.2000	0.000	0.000	0.000	2.000

46	46	1	0.2000	0.000	0.000	0.000	0.000	2.000
47	47	1	0.2000	0.000	0.000	0.000	0.000	2.000
48	48	1	0.2000	0.000	0.000	0.000	0.000	2.000
49	49	1	0.2000	0.000	0.000	0.000	0.000	2.000
50	50	1	0.2000	0.000	0.000	0.000	0.000	2.000
51	51	1	0.2000	0.000	0.000	0.000	0.000	2.000
52	52	1	0.2000	0.000	0.000	0.000	0.000	2.000
53	53	1	0.2000	0.000	0.000	0.000	0.000	2.000
54	54	1	0.2000	0.000	0.000	0.000	0.000	2.000
55	55	1	0.2000	0.000	0.000	0.000	0.000	2.000
56	56	1	0.2000	0.000	0.000	0.000	0.000	2.000
57	57	1	0.2000	0.000	0.000	0.000	0.000	2.000
58	58	1	0.2000	0.000	0.000	0.000	0.000	2.000
59	59	1	0.2000	0.000	0.000	0.000	0.000	2.000
60	60	1	0.2000	0.000	0.000	0.000	0.000	2.000
61	61	1	0.2000	0.000	0.000	0.000	0.000	2.000
62	62	2	0.2000	0.000	0.000	0.000	0.000	2.000
63	63	2	0.2000	0.000	0.000	0.000	0.000	2.000
64	64	2	0.2000	0.000	0.000	0.000	0.000	2.000
65	65	2	0.2000	0.000	0.000	0.000	0.000	2.000
66	66	2	0.2000	0.000	0.000	0.000	0.000	2.000
67	67	2	0.2000	0.000	0.000	0.000	0.000	2.000
68	68	2	0.2000	0.000	0.000	0.000	0.000	2.000
69	69	2	0.2000	0.000	0.000	0.000	0.000	2.000
70	70	2	0.2000	0.000	0.000	0.000	0.000	2.000
71	71	2	0.2000	0.000	0.000	0.000	0.000	2.000
72	72	2	0.2000	0.000	0.000	0.000	0.000	2.000
73	73	2	0.2000	0.000	0.000	0.000	0.000	2.000
74	74	2	0.2000	0.000	0.000	0.000	0.000	2.000
75	75	2	0.2000	0.000	0.000	0.000	0.000	2.000
76	76	2	0.2000	0.000	0.000	0.000	0.000	2.000
77	77	2	0.2000	0.000	0.000	0.000	0.000	2.000
78	78	2	0.2000	0.000	0.000	0.000	0.000	2.000
79	79	2	0.2000	0.000	0.000	0.000	0.000	2.000
80	80	2	0.2000	0.000	0.000	0.000	0.000	2.000
81	81	2	0.1000	0.000	0.000	0.000	0.000	2.000

```

+-----+
|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|                                                                                               |
|          NewProject.BaseDesignSection_28.SISMICAGEO_1847  |
|          Exe Time :24 May 2018          18:25:50  |
+-----+

```

ELEMENT GROUP NO. 3

```

WallElement_33      :
  2  80  0  1  0  0  0  0  0  0  0  0  0  0  0  1  0  0  1  0
.....
.....2D WALL ELEMENT.....
.....

```

element group behaviour throughout stage analysis

stage status

```

-----
1 active
2 active
3 active
4 active
5 active
6 active
7 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 ..... 0.00000

```

```

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
7  1.000

```

element data

e1	na	nb	mat	erc1	erc2	thick	by-i	by-j
1	1	2	1	0.000	0.000	0.8121	0.000	0.000
2	2	3	1	0.000	0.000	0.8121	0.000	0.000
3	3	4	1	0.000	0.000	0.8121	0.000	0.000
4	4	5	1	0.000	0.000	0.8121	0.000	0.000
5	5	6	1	0.000	0.000	0.8121	0.000	0.000
6	6	7	1	0.000	0.000	0.8121	0.000	0.000
7	7	8	1	0.000	0.000	0.8121	0.000	0.000
8	8	9	1	0.000	0.000	0.8121	0.000	0.000
9	9	10	1	0.000	0.000	0.8121	0.000	0.000
10	10	11	1	0.000	0.000	0.8121	0.000	0.000
11	11	12	1	0.000	0.000	0.8121	0.000	0.000
12	12	13	1	0.000	0.000	0.8121	0.000	0.000
13	13	14	1	0.000	0.000	0.8121	0.000	0.000
14	14	15	1	0.000	0.000	0.8121	0.000	0.000
15	15	16	1	0.000	0.000	0.8121	0.000	0.000
16	16	17	1	0.000	0.000	0.8121	0.000	0.000
17	17	18	1	0.000	0.000	0.8121	0.000	0.000
18	18	19	1	0.000	0.000	0.8121	0.000	0.000
19	19	20	1	0.000	0.000	0.8121	0.000	0.000
20	20	21	1	0.000	0.000	0.8121	0.000	0.000
21	21	22	1	0.000	0.000	0.8121	0.000	0.000
22	22	23	1	0.000	0.000	0.8121	0.000	0.000
23	23	24	1	0.000	0.000	0.8121	0.000	0.000
24	24	25	1	0.000	0.000	0.8121	0.000	0.000
25	25	26	1	0.000	0.000	0.8121	0.000	0.000
26	26	27	1	0.000	0.000	0.8121	0.000	0.000
27	27	28	1	0.000	0.000	0.8121	0.000	0.000
28	28	29	1	0.000	0.000	0.8121	0.000	0.000
29	29	30	1	0.000	0.000	0.8121	0.000	0.000
30	30	31	1	0.000	0.000	0.8121	0.000	0.000
31	31	32	1	0.000	0.000	0.8121	0.000	0.000
32	32	33	1	0.000	0.000	0.8121	0.000	0.000
33	33	34	1	0.000	0.000	0.8121	0.000	0.000
34	34	35	1	0.000	0.000	0.8121	0.000	0.000
35	35	36	1	0.000	0.000	0.8121	0.000	0.000
36	36	37	1	0.000	0.000	0.8121	0.000	0.000
37	37	38	1	0.000	0.000	0.8121	0.000	0.000
38	38	39	1	0.000	0.000	0.8121	0.000	0.000



39	39	40	1	0.000	0.000	0.8121	0.000	0.000
40	40	41	1	0.000	0.000	0.8121	0.000	0.000
41	41	42	1	0.000	0.000	0.8121	0.000	0.000
42	42	43	1	0.000	0.000	0.8121	0.000	0.000
43	43	44	1	0.000	0.000	0.8121	0.000	0.000
44	44	45	1	0.000	0.000	0.8121	0.000	0.000
45	45	46	1	0.000	0.000	0.8121	0.000	0.000
46	46	47	1	0.000	0.000	0.8121	0.000	0.000
47	47	48	1	0.000	0.000	0.8121	0.000	0.000
48	48	49	1	0.000	0.000	0.8121	0.000	0.000
49	49	50	1	0.000	0.000	0.8121	0.000	0.000
50	50	51	1	0.000	0.000	0.8121	0.000	0.000
51	51	52	1	0.000	0.000	0.8121	0.000	0.000
52	52	53	1	0.000	0.000	0.8121	0.000	0.000
53	53	54	1	0.000	0.000	0.8121	0.000	0.000
54	54	55	1	0.000	0.000	0.8121	0.000	0.000
55	55	56	1	0.000	0.000	0.8121	0.000	0.000
56	56	57	1	0.000	0.000	0.8121	0.000	0.000
57	57	58	1	0.000	0.000	0.8121	0.000	0.000
58	58	59	1	0.000	0.000	0.8121	0.000	0.000
59	59	60	1	0.000	0.000	0.8121	0.000	0.000
60	60	61	1	0.000	0.000	0.8121	0.000	0.000
61	61	62	1	0.000	0.000	0.8121	0.000	0.000
62	62	63	1	0.000	0.000	0.8121	0.000	0.000
63	63	64	1	0.000	0.000	0.8121	0.000	0.000
64	64	65	1	0.000	0.000	0.8121	0.000	0.000
65	65	66	1	0.000	0.000	0.8121	0.000	0.000
66	66	67	1	0.000	0.000	0.8121	0.000	0.000
67	67	68	1	0.000	0.000	0.8121	0.000	0.000
68	68	69	1	0.000	0.000	0.8121	0.000	0.000
69	69	70	1	0.000	0.000	0.8121	0.000	0.000
70	70	71	1	0.000	0.000	0.8121	0.000	0.000
71	71	72	1	0.000	0.000	0.8121	0.000	0.000
72	72	73	1	0.000	0.000	0.8121	0.000	0.000
73	73	74	1	0.000	0.000	0.8121	0.000	0.000
74	74	75	1	0.000	0.000	0.8121	0.000	0.000
75	75	76	1	0.000	0.000	0.8121	0.000	0.000
76	76	77	1	0.000	0.000	0.8121	0.000	0.000
77	77	78	1	0.000	0.000	0.8121	0.000	0.000
78	78	79	1	0.000	0.000	0.8121	0.000	0.000
79	79	80	1	0.000	0.000	0.8121	0.000	0.000
80	80	81	1	0.000	0.000	0.8121	0.000	0.000

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+-----+
|          PARATIEPLUS(TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|                               NewProject.BaseDesignSection_28.SISMICAGEO_1847                    |
|                               Exe Time :24 May 2018      18:25:50                               |
+-----+
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NO. OF NODAL LOADS (NLOAD) ..... 0
NO. OF LOAD CURVES (NLCUR) ..... 14
MAXIMUM POINTS/LCURVE (NPTM)..... 5
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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*          |
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|                                                                                                                                           |
+-----+

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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
8.00000	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
8.00000	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
8.00000	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
8.00000	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
8.00000	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
8.00000	0.0000E+00

LOAD FUNCTION NUMBER = 7  
NUMBER OF TIME POINTS = 5

TIME VALUE	FUNCTION
0.00000	0.0000E+00
6.80000	0.0000E+00
7.00000	0.1000E+01
7.20000	0.0000E+00
8.00000	0.0000E+00

LOAD FUNCTION NUMBER = 8  
NUMBER OF TIME POINTS = 4

TIME VALUE	FUNCTION
0.00000	0.0000E+00
0.80000	0.0000E+00
1.00000	0.1000E+01
8.00000	0.1000E+01

LOAD FUNCTION NUMBER = 9  
NUMBER OF TIME POINTS = 4

TIME VALUE	FUNCTION
0.00000	0.0000E+00
1.80000	0.0000E+00
2.00000	0.1000E+01
8.00000	0.1000E+01

LOAD FUNCTION NUMBER = 10  
NUMBER OF TIME POINTS = 4

TIME VALUE	FUNCTION
0.00000	0.0000E+00
2.80000	0.0000E+00
3.00000	0.1000E+01
8.00000	0.1000E+01

LOAD FUNCTION NUMBER = 11  
NUMBER OF TIME POINTS = 4

TIME VALUE	FUNCTION
0.00000	0.0000E+00
3.80000	0.0000E+00
4.00000	0.1000E+01
8.00000	0.1000E+01

LOAD FUNCTION NUMBER = 12  
NUMBER OF TIME POINTS = 4

TIME VALUE	FUNCTION
0.00000	0.0000E+00
4.80000	0.0000E+00
5.00000	0.1000E+01
8.00000	0.1000E+01

LOAD FUNCTION NUMBER = 13  
NUMBER OF TIME POINTS = 4

TIME VALUE	FUNCTION
0.00000	0.0000E+00
5.80000	0.0000E+00
6.00000	0.1000E+01
8.00000	0.1000E+01

LOAD FUNCTION NUMBER = 14  
NUMBER OF TIME POINTS = 4

TIME VALUE	FUNCTION
0.00000	0.0000E+00

6.80000	0.0000E+00
7.00000	0.1000E+01
8.00000	0.1000E+01

NO. OF DISTRIBUTED LOAD CARDS      0

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION *Build date:Jul 11, 2017*          |
|                                                                                                                                            |
|                                                                                                                                            |
|          NewProject.BaseDesignSection_28.SISMICAGEO_1847          |
|          Exe Time :24 May 2018          18:25:50          |
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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
STEP	7	TOTAL APPLIED LOAD IN DIR.	2	Y-DISPL.F	0.0000000
STEP	7	TOTAL APPLIED LOAD IN DIR.	4	X-ROT. F	0.0000000

LOAD INPUT SECTION COMPLETED

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+-----+
|          PARATIEPLUS(TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION  *Build date:Jul 11, 2017*          |
|                                                                                                                                            |
|                                                                                                                                            |
|          NewProject.BaseDesignSection_28.SISMICAGEO_1847                                                                                   |
|          Exe Time :24 May 2018          18:25:50                                                                                           |
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NO. OF LAYERS ..... 2
NO. OF DATA PER LAYER..... 100
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+-----+
|                PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                                                                            |
|                                                                                                                                            |
|                                                                                                                                            |
|                NewProject.BaseDesignSection_28.SISMICAGEO_1847  |
|                Exe Time :24 May 2018  18:25:50  |
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LAYER DESCRIPTORS FOR STEP NO. 1

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

```

ITEM NO.  1<NAME      >= 18.000  (BOTH WALLS)
ITEM NO.  2<NATURE   >= 1.0000  (BOTH WALLS)
ITEM NO.  3<LEVEL    >= 0.0000  (BOTH WALLS)
ITEM NO.  4<WALL     >= 1.0000  (BOTH WALLS)
ITEM NO.  5<GAMMAD   >= 19.000  (BOTH WALLS)
ITEM NO.  6<GAMMAB   >= 10.000  (BOTH WALLS)
ITEM NO.  7<GAMMAW   >= 10.000  (BOTH WALLS)
ITEM NO.  9<U-FRICT  >= 31.080  WALL NO.    1
ITEM NO.  9<U-FRICT  >= 37.000  WALL NO.    2
ITEM NO. 10<U-KA     >= 0.31900  WALL NO.    1
ITEM NO. 11<U-KP     >= 4.5780  WALL NO.    1
ITEM NO. 12<K0-NC    >= 0.50000  (BOTH WALLS)
ITEM NO. 13<NEXP     >= 0.50000  (BOTH WALLS)
ITEM NO. 14<OCR      >= 1.0000  (BOTH WALLS)
ITEM NO. 16<MODEL    >= 1.0000  (BOTH WALLS)
ITEM NO. 17<EVC      >= 50000.  (BOTH WALLS)
ITEM NO. 18<EUR      >= 0.15000E+06 (BOTH WALLS)
ITEM NO. 27<U-PERM   >= 0.10000E-03 (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  >= 31.080  WALL NO.    1
ITEM NO. 59<D-FRICT  >= 37.000  WALL NO.    2
ITEM NO. 60<D-KA     >= 0.31900  WALL NO.    1
ITEM NO. 61<D-KP     >= 4.5780  WALL NO.    1
ITEM NO. 77<D-PERM   >= 0.10000E-03 (BOTH WALLS)

```

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

```

ITEM NO.  1<NAME      >= 19.000  (BOTH WALLS)
ITEM NO.  2<NATURE   >= 1.0000  (BOTH WALLS)
ITEM NO.  3<LEVEL    >= -12.000  (BOTH WALLS)
ITEM NO.  4<WALL     >= 1.0000  (BOTH WALLS)
ITEM NO.  5<GAMMAD   >= 18.500  (BOTH WALLS)
ITEM NO.  6<GAMMAB   >= 9.0000  (BOTH WALLS)
ITEM NO.  7<GAMMAW   >= 10.000  (BOTH WALLS)
ITEM NO.  8<U-COHE   >= 4.0000  WALL NO.    1
ITEM NO.  8<U-COHE   >= 5.0000  WALL NO.    2
ITEM NO.  9<U-FRICT  >= 21.320  WALL NO.    1
ITEM NO.  9<U-FRICT  >= 26.000  WALL NO.    2
ITEM NO. 10<U-KA     >= 0.46700  WALL NO.    1
ITEM NO. 11<U-KP     >= 2.6490  WALL NO.    1
ITEM NO. 12<K0-NC    >= 0.50000  (BOTH WALLS)
ITEM NO. 13<NEXP     >= 0.50000  (BOTH WALLS)
ITEM NO. 14<OCR      >= 1.0000  (BOTH WALLS)
ITEM NO. 16<MODEL    >= 1.0000  (BOTH WALLS)
ITEM NO. 17<EVC      >= 30000.  (BOTH WALLS)
ITEM NO. 18<EUR      >= 90000.  (BOTH WALLS)
ITEM NO. 27<U-PERM   >= 0.10000E-03 (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   >= 4.0000  WALL NO.    1
ITEM NO. 58<D-COHE   >= 5.0000  WALL NO.    2
ITEM NO. 59<D-FRICT  >= 21.320  WALL NO.    1
ITEM NO. 59<D-FRICT  >= 26.000  WALL NO.    2
ITEM NO. 60<D-KA     >= 0.46700  WALL NO.    1
ITEM NO. 61<D-KP     >= 2.6490  WALL NO.    1
ITEM NO. 77<D-PERM   >= 0.10000E-03 (BOTH WALLS)

```

LAYER DESCRIPTORS FOR STEP NO. 2

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

```

ITEM NO.  1<NAME      >= 18.000  (BOTH WALLS)
ITEM NO.  2<NATURE   >= 1.0000  (BOTH WALLS)
ITEM NO.  3<LEVEL    >= 0.0000  (BOTH WALLS)
ITEM NO.  4<WALL     >= 1.0000  (BOTH WALLS)
ITEM NO.  5<GAMMAD   >= 19.000  (BOTH WALLS)
ITEM NO.  6<GAMMAB   >= 10.000  (BOTH WALLS)
ITEM NO.  7<GAMMAW   >= 10.000  (BOTH WALLS)
ITEM NO.  9<U-FRICT  >= 31.080  WALL NO.    1
ITEM NO.  9<U-FRICT  >= 37.000  WALL NO.    2
ITEM NO. 10<U-KA     >= 0.31900  WALL NO.    1
ITEM NO. 11<U-KP     >= 4.5780  WALL NO.    1
ITEM NO. 12<K0-NC    >= 0.50000  (BOTH WALLS)
ITEM NO. 13<NEXP     >= 0.50000  (BOTH WALLS)

```



ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)  
 ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)  
 ITEM NO. 17<EVC >= 50000. (BOTH WALLS)  
 ITEM NO. 18<EUR >= 0.15000E+06 (BOTH WALLS)  
 ITEM NO. 27<U-PERM >= 0.10000E-03 (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 >= 31.080 WALL NO. 1  
 ITEM NO. 59<D-FRICT >= 37.000 WALL NO. 2  
 ITEM NO. 60<D-KA >= 0.31900 WALL NO. 1  
 ITEM NO. 61<D-KP >= 4.5780 WALL NO. 1  
 ITEM NO. 77<D-PERM >= 0.10000E-03 (BOTH WALLS)

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

ITEM NO. 1<NAME >= 19.000 (BOTH WALLS)  
 ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)  
 ITEM NO. 3<LEVEL >= -12.000 (BOTH WALLS)  
 ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)  
 ITEM NO. 5<GAMMAD >= 18.500 (BOTH WALLS)  
 ITEM NO. 6<GAMMAB >= 9.0000 (BOTH WALLS)  
 ITEM NO. 7<GAMMAW >= 10.000 (BOTH WALLS)  
 ITEM NO. 8<U-COHE >= 4.0000 WALL NO. 1  
 ITEM NO. 8<U-COHE >= 5.0000 WALL NO. 2  
 ITEM NO. 9<U-FRICT >= 21.320 WALL NO. 1  
 ITEM NO. 9<U-FRICT >= 26.000 WALL NO. 2  
 ITEM NO. 10<U-KA >= 0.46700 WALL NO. 1  
 ITEM NO. 11<U-KP >= 2.6490 WALL NO. 1  
 ITEM NO. 12<K0-NC >= 0.50000 (BOTH WALLS)  
 ITEM NO. 13<NEXP >= 0.50000 (BOTH WALLS)  
 ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)  
 ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)  
 ITEM NO. 17<EVC >= 30000. (BOTH WALLS)  
 ITEM NO. 18<EUR >= 90000. (BOTH WALLS)  
 ITEM NO. 27<U-PERM >= 0.10000E-03 (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 >= 4.0000 WALL NO. 1  
 ITEM NO. 58<D-COHE >= 5.0000 WALL NO. 2  
 ITEM NO. 59<D-FRICT >= 21.320 WALL NO. 1  
 ITEM NO. 59<D-FRICT >= 26.000 WALL NO. 2  
 ITEM NO. 60<D-KA >= 0.46700 WALL NO. 1  
 ITEM NO. 61<D-KP >= 2.6490 WALL NO. 1  
 ITEM NO. 77<D-PERM >= 0.10000E-03 (BOTH WALLS)

LAYER DESCRIPTORS FOR STEP NO. 3

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

ITEM NO. 1<NAME >= 18.000 (BOTH WALLS)  
 ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)  
 ITEM NO. 3<LEVEL >= 0.0000 (BOTH WALLS)  
 ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)  
 ITEM NO. 5<GAMMAD >= 19.000 (BOTH WALLS)  
 ITEM NO. 6<GAMMAB >= 10.000 (BOTH WALLS)  
 ITEM NO. 7<GAMMAW >= 10.000 (BOTH WALLS)  
 ITEM NO. 9<U-FRICT >= 31.080 WALL NO. 1  
 ITEM NO. 9<U-FRICT >= 37.000 WALL NO. 2  
 ITEM NO. 10<U-KA >= 0.31900 WALL NO. 1  
 ITEM NO. 11<U-KP >= 4.5780 WALL NO. 1  
 ITEM NO. 12<K0-NC >= 0.50000 (BOTH WALLS)  
 ITEM NO. 13<NEXP >= 0.50000 (BOTH WALLS)  
 ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)  
 ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)  
 ITEM NO. 17<EVC >= 50000. (BOTH WALLS)  
 ITEM NO. 18<EUR >= 0.15000E+06 (BOTH WALLS)  
 ITEM NO. 27<U-PERM >= 0.10000E-03 (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 >= 31.080 WALL NO. 1  
 ITEM NO. 59<D-FRICT >= 37.000 WALL NO. 2  
 ITEM NO. 60<D-KA >= 0.31900 WALL NO. 1  
 ITEM NO. 61<D-KP >= 4.5780 WALL NO. 1  
 ITEM NO. 77<D-PERM >= 0.10000E-03 (BOTH WALLS)

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

ITEM NO. 1<NAME >= 19.000 (BOTH WALLS)  
 ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)  
 ITEM NO. 3<LEVEL >= -12.000 (BOTH WALLS)  
 ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)  
 ITEM NO. 5<GAMMAD >= 18.500 (BOTH WALLS)  
 ITEM NO. 6<GAMMAB >= 9.0000 (BOTH WALLS)  
 ITEM NO. 7<GAMMAW >= 10.000 (BOTH WALLS)  
 ITEM NO. 8<U-COHE >= 4.0000 WALL NO. 1  
 ITEM NO. 8<U-COHE >= 5.0000 WALL NO. 2  
 ITEM NO. 9<U-FRICT >= 21.320 WALL NO. 1  
 ITEM NO. 9<U-FRICT >= 26.000 WALL NO. 2  
 ITEM NO. 10<U-KA >= 0.46700 WALL NO. 1  
 ITEM NO. 11<U-KP >= 2.6490 WALL NO. 1

ITEM NO. 12<K0-NC >= 0.50000 (BOTH WALLS)  
 ITEM NO. 13<NEXP >= 0.50000 (BOTH WALLS)  
 ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)  
 ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)  
 ITEM NO. 17<EVC >= 30000. (BOTH WALLS)  
 ITEM NO. 18<EUR >= 90000. (BOTH WALLS)  
 ITEM NO. 27<U-PERM >= 0.10000E-03 (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 >= 4.0000 WALL NO. 1  
 ITEM NO. 58<D-COHE >= 5.0000 WALL NO. 2  
 ITEM NO. 59<D-FRICT >= 21.320 WALL NO. 1  
 ITEM NO. 59<D-FRICT >= 26.000 WALL NO. 2  
 ITEM NO. 60<D-KA >= 0.46700 WALL NO. 1  
 ITEM NO. 61<D-KP >= 2.6490 WALL NO. 1  
 ITEM NO. 77<D-PERM >= 0.10000E-03 (BOTH WALLS)

LAYER DESCRIPTORS FOR STEP NO. 4

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

ITEM NO. 1<NAME >= 18.000 (BOTH WALLS)  
 ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)  
 ITEM NO. 3<LEVEL >= 0.0000 (BOTH WALLS)  
 ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)  
 ITEM NO. 5<GAMMAD >= 19.000 (BOTH WALLS)  
 ITEM NO. 6<GAMMAB >= 10.000 (BOTH WALLS)  
 ITEM NO. 7<GAMMAW >= 10.000 (BOTH WALLS)  
 ITEM NO. 9<U-FRICT >= 31.080 WALL NO. 1  
 ITEM NO. 9<U-FRICT >= 37.000 WALL NO. 2  
 ITEM NO. 10<U-KA >= 0.31900 WALL NO. 1  
 ITEM NO. 11<U-KP >= 4.5780 WALL NO. 1  
 ITEM NO. 12<K0-NC >= 0.50000 (BOTH WALLS)  
 ITEM NO. 13<NEXP >= 0.50000 (BOTH WALLS)  
 ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)  
 ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)  
 ITEM NO. 17<EVC >= 50000. (BOTH WALLS)  
 ITEM NO. 18<EUR >= 0.15000E+06 (BOTH WALLS)  
 ITEM NO. 27<U-PERM >= 0.10000E-03 (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 >= 31.080 WALL NO. 1  
 ITEM NO. 59<D-FRICT >= 37.000 WALL NO. 2  
 ITEM NO. 60<D-KA >= 0.31900 WALL NO. 1  
 ITEM NO. 61<D-KP >= 4.5780 WALL NO. 1  
 ITEM NO. 77<D-PERM >= 0.10000E-03 (BOTH WALLS)

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

ITEM NO. 1<NAME >= 19.000 (BOTH WALLS)  
 ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)  
 ITEM NO. 3<LEVEL >= -12.000 (BOTH WALLS)  
 ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)  
 ITEM NO. 5<GAMMAD >= 18.500 (BOTH WALLS)  
 ITEM NO. 6<GAMMAB >= 9.0000 (BOTH WALLS)  
 ITEM NO. 7<GAMMAW >= 10.000 (BOTH WALLS)  
 ITEM NO. 8<U-COHE >= 4.0000 WALL NO. 1  
 ITEM NO. 8<U-COHE >= 5.0000 WALL NO. 2  
 ITEM NO. 9<U-FRICT >= 21.320 WALL NO. 1  
 ITEM NO. 9<U-FRICT >= 26.000 WALL NO. 2  
 ITEM NO. 10<U-KA >= 0.46700 WALL NO. 1  
 ITEM NO. 11<U-KP >= 2.6490 WALL NO. 1  
 ITEM NO. 12<K0-NC >= 0.50000 (BOTH WALLS)  
 ITEM NO. 13<NEXP >= 0.50000 (BOTH WALLS)  
 ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)  
 ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)  
 ITEM NO. 17<EVC >= 30000. (BOTH WALLS)  
 ITEM NO. 18<EUR >= 90000. (BOTH WALLS)  
 ITEM NO. 27<U-PERM >= 0.10000E-03 (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 >= 4.0000 WALL NO. 1  
 ITEM NO. 58<D-COHE >= 5.0000 WALL NO. 2  
 ITEM NO. 59<D-FRICT >= 21.320 WALL NO. 1  
 ITEM NO. 59<D-FRICT >= 26.000 WALL NO. 2  
 ITEM NO. 60<D-KA >= 0.46700 WALL NO. 1  
 ITEM NO. 61<D-KP >= 2.6490 WALL NO. 1  
 ITEM NO. 77<D-PERM >= 0.10000E-03 (BOTH WALLS)

LAYER DESCRIPTORS FOR STEP NO. 5

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

ITEM NO. 1<NAME >= 18.000 (BOTH WALLS)  
 ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)  
 ITEM NO. 3<LEVEL >= 0.0000 (BOTH WALLS)  
 ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)  
 ITEM NO. 5<GAMMAD >= 19.000 (BOTH WALLS)  
 ITEM NO. 6<GAMMAB >= 10.000 (BOTH WALLS)

ITEM NO.	7<GAMMAW	>= 10.000	(BOTH WALLS)	
ITEM NO.	9<U-FRICT	>= 31.080	WALL NO.	1
ITEM NO.	9<U-FRICT	>= 37.000	WALL NO.	2
ITEM NO.	10<U-KA	>= 0.31900	WALL NO.	1
ITEM NO.	11<U-KP	>= 4.5780	WALL NO.	1
ITEM NO.	12<K0-NC	>= 0.50000	(BOTH WALLS)	
ITEM NO.	13<NEXP	>= 0.50000	(BOTH WALLS)	
ITEM NO.	14<OCR	>= 1.0000	(BOTH WALLS)	
ITEM NO.	16<MODEL	>= 1.0000	(BOTH WALLS)	
ITEM NO.	17<EVC	>= 50000.	(BOTH WALLS)	
ITEM NO.	18<EUR	>= 0.15000E+06	(BOTH WALLS)	
ITEM NO.	27<U-PERM	>= 0.10000E-03	(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	>= 31.080	WALL NO.	1
ITEM NO.	59<D-FRICT	>= 37.000	WALL NO.	2
ITEM NO.	60<D-KA	>= 0.31900	WALL NO.	1
ITEM NO.	61<D-KP	>= 4.5780	WALL NO.	1
ITEM NO.	77<D-PERM	>= 0.10000E-03	(BOTH WALLS)	

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

ITEM NO.	1<NAME	>= 19.000	(BOTH WALLS)	
ITEM NO.	2<NATURE	>= 1.0000	(BOTH WALLS)	
ITEM NO.	3<LEVEL	>= -12.000	(BOTH WALLS)	
ITEM NO.	4<WALL	>= 1.0000	(BOTH WALLS)	
ITEM NO.	5<GAMMAD	>= 18.500	(BOTH WALLS)	
ITEM NO.	6<GAMMAB	>= 9.0000	(BOTH WALLS)	
ITEM NO.	7<GAMMAW	>= 10.000	(BOTH WALLS)	
ITEM NO.	8<U-COHE	>= 4.0000	WALL NO.	1
ITEM NO.	8<U-COHE	>= 5.0000	WALL NO.	2
ITEM NO.	9<U-FRICT	>= 21.320	WALL NO.	1
ITEM NO.	9<U-FRICT	>= 26.000	WALL NO.	2
ITEM NO.	10<U-KA	>= 0.46700	WALL NO.	1
ITEM NO.	11<U-KP	>= 2.6490	WALL NO.	1
ITEM NO.	12<K0-NC	>= 0.50000	(BOTH WALLS)	
ITEM NO.	13<NEXP	>= 0.50000	(BOTH WALLS)	
ITEM NO.	14<OCR	>= 1.0000	(BOTH WALLS)	
ITEM NO.	16<MODEL	>= 1.0000	(BOTH WALLS)	
ITEM NO.	17<EVC	>= 30000.	(BOTH WALLS)	
ITEM NO.	18<EUR	>= 90000.	(BOTH WALLS)	
ITEM NO.	27<U-PERM	>= 0.10000E-03	(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	>= 4.0000	WALL NO.	1
ITEM NO.	58<D-COHE	>= 5.0000	WALL NO.	2
ITEM NO.	59<D-FRICT	>= 21.320	WALL NO.	1
ITEM NO.	59<D-FRICT	>= 26.000	WALL NO.	2
ITEM NO.	60<D-KA	>= 0.46700	WALL NO.	1
ITEM NO.	61<D-KP	>= 2.6490	WALL NO.	1
ITEM NO.	77<D-PERM	>= 0.10000E-03	(BOTH WALLS)	

LAYER DESCRIPTORS FOR STEP NO. 6

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

ITEM NO.	1<NAME	>= 18.000	(BOTH WALLS)	
ITEM NO.	2<NATURE	>= 1.0000	(BOTH WALLS)	
ITEM NO.	3<LEVEL	>= 0.0000	(BOTH WALLS)	
ITEM NO.	4<WALL	>= 1.0000	(BOTH WALLS)	
ITEM NO.	5<GAMMAD	>= 19.000	(BOTH WALLS)	
ITEM NO.	6<GAMMAB	>= 10.000	(BOTH WALLS)	
ITEM NO.	7<GAMMAW	>= 10.000	(BOTH WALLS)	
ITEM NO.	9<U-FRICT	>= 31.080	WALL NO.	1
ITEM NO.	9<U-FRICT	>= 37.000	WALL NO.	2
ITEM NO.	10<U-KA	>= 0.31900	WALL NO.	1
ITEM NO.	11<U-KP	>= 4.5780	WALL NO.	1
ITEM NO.	12<K0-NC	>= 0.50000	(BOTH WALLS)	
ITEM NO.	13<NEXP	>= 0.50000	(BOTH WALLS)	
ITEM NO.	14<OCR	>= 1.0000	(BOTH WALLS)	
ITEM NO.	16<MODEL	>= 1.0000	(BOTH WALLS)	
ITEM NO.	17<EVC	>= 50000.	(BOTH WALLS)	
ITEM NO.	18<EUR	>= 0.15000E+06	(BOTH WALLS)	
ITEM NO.	27<U-PERM	>= 0.10000E-03	(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	>= 31.080	WALL NO.	1
ITEM NO.	59<D-FRICT	>= 37.000	WALL NO.	2
ITEM NO.	60<D-KA	>= 0.31900	WALL NO.	1
ITEM NO.	61<D-KP	>= 4.5780	WALL NO.	1
ITEM NO.	77<D-PERM	>= 0.10000E-03	(BOTH WALLS)	

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

ITEM NO.	1<NAME	>= 19.000	(BOTH WALLS)	
ITEM NO.	2<NATURE	>= 1.0000	(BOTH WALLS)	
ITEM NO.	3<LEVEL	>= -12.000	(BOTH WALLS)	
ITEM NO.	4<WALL	>= 1.0000	(BOTH WALLS)	
ITEM NO.	5<GAMMAD	>= 18.500	(BOTH WALLS)	
ITEM NO.	6<GAMMAB	>= 9.0000	(BOTH WALLS)	

ITEM NO.	7<GAMMAW	>= 10.000	(BOTH WALLS)	
ITEM NO.	8<U-COHE	>= 4.0000	WALL NO.	1
ITEM NO.	8<U-COHE	>= 5.0000	WALL NO.	2
ITEM NO.	9<U-FRICT	>= 21.320	WALL NO.	1
ITEM NO.	9<U-FRICT	>= 26.000	WALL NO.	2
ITEM NO.	10<U-KA	>= 0.46700	WALL NO.	1
ITEM NO.	11<U-KP	>= 2.6490	WALL NO.	1
ITEM NO.	12<K0-NC	>= 0.50000	(BOTH WALLS)	
ITEM NO.	13<NEXP	>= 0.50000	(BOTH WALLS)	
ITEM NO.	14<OCR	>= 1.0000	(BOTH WALLS)	
ITEM NO.	16<MODEL	>= 1.0000	(BOTH WALLS)	
ITEM NO.	17<EVC	>= 30000.	(BOTH WALLS)	
ITEM NO.	18<EUR	>= 90000.	(BOTH WALLS)	
ITEM NO.	27<U-PERM	>= 0.10000E-03	(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	>= 4.0000	WALL NO.	1
ITEM NO.	58<D-COHE	>= 5.0000	WALL NO.	2
ITEM NO.	59<D-FRICT	>= 21.320	WALL NO.	1
ITEM NO.	59<D-FRICT	>= 26.000	WALL NO.	2
ITEM NO.	60<D-KA	>= 0.46700	WALL NO.	1
ITEM NO.	61<D-KP	>= 2.6490	WALL NO.	1
ITEM NO.	77<D-PERM	>= 0.10000E-03	(BOTH WALLS)	

LAYER DESCRIPTORS FOR STEP NO. 7

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 1 FOR STEP NO. 7

ITEM NO.	1<NAME	>= 18.000	(BOTH WALLS)	
ITEM NO.	2<NATURE	>= 1.0000	(BOTH WALLS)	
ITEM NO.	3<LEVEL	>= 0.0000	(BOTH WALLS)	
ITEM NO.	4<WALL	>= 1.0000	(BOTH WALLS)	
ITEM NO.	5<GAMMAD	>= 19.000	(BOTH WALLS)	
ITEM NO.	6<GAMMAB	>= 10.000	(BOTH WALLS)	
ITEM NO.	7<GAMMAW	>= 10.000	(BOTH WALLS)	
ITEM NO.	9<U-FRICT	>= 31.080	WALL NO.	1
ITEM NO.	9<U-FRICT	>= 37.000	WALL NO.	2
ITEM NO.	10<U-KA	>= 0.31900	WALL NO.	1
ITEM NO.	11<U-KP	>= 4.5780	WALL NO.	1
ITEM NO.	12<K0-NC	>= 0.50000	(BOTH WALLS)	
ITEM NO.	13<NEXP	>= 0.50000	(BOTH WALLS)	
ITEM NO.	14<OCR	>= 1.0000	(BOTH WALLS)	
ITEM NO.	16<MODEL	>= 1.0000	(BOTH WALLS)	
ITEM NO.	17<EVC	>= 50000.	(BOTH WALLS)	
ITEM NO.	18<EUR	>= 0.15000E+06	(BOTH WALLS)	
ITEM NO.	27<U-PERM	>= 0.10000E-03	(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	>= 31.080	WALL NO.	1
ITEM NO.	59<D-FRICT	>= 37.000	WALL NO.	2
ITEM NO.	60<D-KA	>= 0.31900	WALL NO.	1
ITEM NO.	61<D-KP	>= 4.5780	WALL NO.	1
ITEM NO.	77<D-PERM	>= 0.10000E-03	(BOTH WALLS)	

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 2 FOR STEP NO. 7

ITEM NO.	1<NAME	>= 19.000	(BOTH WALLS)	
ITEM NO.	2<NATURE	>= 1.0000	(BOTH WALLS)	
ITEM NO.	3<LEVEL	>= -12.000	(BOTH WALLS)	
ITEM NO.	4<WALL	>= 1.0000	(BOTH WALLS)	
ITEM NO.	5<GAMMAD	>= 18.500	(BOTH WALLS)	
ITEM NO.	6<GAMMAB	>= 9.0000	(BOTH WALLS)	
ITEM NO.	7<GAMMAW	>= 10.000	(BOTH WALLS)	
ITEM NO.	8<U-COHE	>= 4.0000	WALL NO.	1
ITEM NO.	8<U-COHE	>= 5.0000	WALL NO.	2
ITEM NO.	9<U-FRICT	>= 21.320	WALL NO.	1
ITEM NO.	9<U-FRICT	>= 26.000	WALL NO.	2
ITEM NO.	10<U-KA	>= 0.46700	WALL NO.	1
ITEM NO.	11<U-KP	>= 2.6490	WALL NO.	1
ITEM NO.	12<K0-NC	>= 0.50000	(BOTH WALLS)	
ITEM NO.	13<NEXP	>= 0.50000	(BOTH WALLS)	
ITEM NO.	14<OCR	>= 1.0000	(BOTH WALLS)	
ITEM NO.	16<MODEL	>= 1.0000	(BOTH WALLS)	
ITEM NO.	17<EVC	>= 30000.	(BOTH WALLS)	
ITEM NO.	18<EUR	>= 90000.	(BOTH WALLS)	
ITEM NO.	27<U-PERM	>= 0.10000E-03	(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	>= 4.0000	WALL NO.	1
ITEM NO.	58<D-COHE	>= 5.0000	WALL NO.	2
ITEM NO.	59<D-FRICT	>= 21.320	WALL NO.	1
ITEM NO.	59<D-FRICT	>= 26.000	WALL NO.	2
ITEM NO.	60<D-KA	>= 0.46700	WALL NO.	1
ITEM NO.	61<D-KP	>= 2.6490	WALL NO.	1
ITEM NO.	77<D-PERM	>= 0.10000E-03	(BOTH WALLS)	

DEFAULT WATER UNIT WEIGHT = 10.000  
 AVERAGED ON 14 VALUES





Y	0.000	-0.9990E+30
Z-PC	0.000	0.000
Z-EXCAVATION	-2.000	0.000
Z-WATER_TABLE	0.000	-0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL	0.000	0.000
ZQ	0.000	0.000
DZW_OF_THE_WATER_TABLE	2.000	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		0.000	0.000
Z-EXCAVATION		-3.000	0.000
Z-WATER_TABLE		0.000	-0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL		0.000	0.000
ZQ		0.000	0.000
DZW_OF_THE_WATER_TABLE		3.000	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		0.000	0.000
Z-EXCAVATION		-4.000	0.000
Z-WATER_TABLE		0.000	-0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL		0.000	0.000
ZQ		0.000	0.000
DZW_OF_THE_WATER_TABLE		4.000	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	0.000	0.000
Z-EXCAVATION	-4.500	0.000
Z-WATER_TABLE	0.000	-0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL	0.000	0.000
ZQ	0.000	0.000
DZW_OF_THE_WATER_TABLE	4.500	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

STEP NO. 7

	LEFT WALL	RIGHT WALL
Y	0.000	-0.9990E+30
Z-PC	0.000	0.000
Z-EXCAVATION	-4.500	0.000
Z-WATER_TABLE	0.000	-0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL	0.000	0.000
ZQ	0.000	0.000
DZW_OF_THE_WATER_TABLE	4.500	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   7

LEFT-HAND WALL

LOWER LEVEL           -16.00000  
UPPER LEVEL            0.00000

RIGHT-HAND WALL

LOWER LEVEL           -16.00000  
UPPER LEVEL            0.00000

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION *Build date:Jul 11, 2017* |
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NewProject.BaseDesignSection_28.SISMICAGEO_1847
Exe Time :24 May 2018      18:25:50

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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) 1.0000000000000000  
FOUNDATION WIDTH (B) 11.7500000000000000  
ZETA-F..... 0.0000000000000000E+000  
Q-F ..... 5.0000000000000000  
BETA ..... 45.0000000000000000  
BEHAVIOUR (0=FREE, 1=REFLECTING) 0.0000000000000000E+000

ELEMENT GROUPS BACKUP AREA CAN STAY IN CORE AT  
POSITION 4763

NO. OF D.P.W FOR THIS AREA 9554  
MAX NO. OF D.P.W. AVAILABLE 81920  
\*\* MAX NO OF ITERATIONS SET TO 40

```

ITER 0 RNORM = 0.000 RMNORM= 0.000
RINORM=0.1221E+06 RIMNOR= 0.000
RENORM=0.2753E-27 REMNOR= 0.000 RATIO =0.4748E-16 TOLER =0.1000E-03 CONVERGED !
RFMAX = 47.08 RMMAX = 0.000
RTSMAL=0.1000E-03 RMSMAL= 0.000
RDT =0.1221E+06 RDR = 0.000
RATIOT=0.4748E-16 RATIO= 0.000
MAX UN=0.7105E-14 IEQ= 143 NODE 72 DOF 1 Y-DISPL.F
MIN UN=-.7105E-14 IEQ= 147 NODE 74 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

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ITER 1 RNORM = 0.000 RMNORM= 0.000
RINORM=0.1221E+06 RIMNOR= 0.000
RENORM=0.1690E-29 REMNOR=0.1300E-52 RATIO =0.3720E-17 TOLER =0.1000E-03 CONVERGED !
RFMAX = 47.08 RMMAX = 0.000
RTSMAL=0.1000E-03 RMSMAL= 0.000
RDT =0.1221E+06 RDR = 0.000
RATIOT=0.3720E-17 RATIO= 0.000
MAX UN=0.3954E-17 IEQ= 119 NODE 60 DOF 1 Y-DISPL.F
MIN UN=-.2360E-15 IEQ= 35 NODE 18 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

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ITER 2 RNORM = 0.000 RMNORM= 0.000
RINORM=0.1221E+06 RIMNOR= 0.000
RENORM=0.1466E-29 REMNOR=0.4358E-52 RATIO =0.3464E-17 TOLER =0.1000E-03 CONVERGED !
RFMAX = 47.08 RMMAX = 0.000
RTSMAL=0.1000E-03 RMSMAL= 0.000
RDT =0.1221E+06 RDR = 0.000
RATIOT=0.3464E-17 RATIO= 0.000
MAX UN=0.1887E-26 IEQ= 48 NODE 24 DOF 2 X-ROT. F
MIN UN=-.2061E-15 IEQ= 15 NODE 8 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|                               NewProject.BaseDesignSection_28.SISMICAGEO_1847                    |
|                               Exe Time :24 May 2018      18:25:50                               |
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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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|                PARATIEPLUS(TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION *Build date:Jul 11, 2017*                |
|                                                                                                                                            |
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|                NewProject.BaseDesignSection_28.SISMICAGEO_1847                                                                            |
|                Exe Time :24 May 2018  18:25:50                                                                                              |
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New Project

STRESS RESULTS FOR GROUP NO. 1

0\_L  
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 81  
CURRENT TIME IS 1.0000

HARDENING 2D SOIL ELEMENT

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

EL * FACTOR	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
1 D	0.000	2.5292E-20	0.000	0.000	0.000	0.000	V-C	4.1493E+04	0.000	0.000	
1.000	1.000	0.000	0.000	0.000	Ug5_2_8_L_0						
2 D	0.7141	2.5897E-20	2.008	1.570	2.008	1.570	V-C	4.1493E+04	-0.2000	2.000	
1.000	1.000	3.570	0.000	0.000	Ug5_2_8_L_0						
3 D	1.411	2.6501E-20	4.057	3.055	4.057	3.055	V-C	4.1493E+04	-0.4000	4.000	
1.000	1.000	7.055	0.000	0.000	Ug5_2_8_L_0						
4 D	2.083	2.7103E-20	6.158	4.413	6.158	4.413	V-C	4.1493E+04	-0.6000	6.000	
1.000	1.000	10.41	0.000	0.000	Ug5_2_8_L_0						
5 D	2.730	2.7700E-20	8.297	5.651	8.297	5.651	V-C	4.1493E+04	-0.8000	8.000	
1.000	1.000	13.65	0.000	0.000	Ug5_2_8_L_0						
6 D	3.359	2.8287E-20	10.45	6.797	10.45	6.797	V-C	4.1493E+04	-1.000	10.00	
1.000	1.000	16.80	0.000	0.000	Ug5_2_8_L_0						
7 D	3.976	2.8859E-20	12.61	7.879	12.61	7.879	V-C	4.1493E+04	-1.200	12.00	
1.000	1.000	19.88	0.000	0.000	Ug5_2_8_L_0						
8 D	4.584	2.9410E-20	14.87	8.919	14.87	8.919	V-C	4.1493E+04	-1.400	14.00	
1.000	1.000	22.92	0.000	0.000	Ug5_2_8_L_0						
9 D	5.186	2.9932E-20	17.18	9.931	17.18	9.931	V-C	4.1493E+04	-1.600	16.00	
1.000	1.000	25.93	0.000	0.000	Ug5_2_8_L_0						
10 D	5.785	3.0417E-20	19.26	10.93	19.26	10.93	V-C	4.1493E+04	-1.800	18.00	
1.000	1.000	28.93	0.000	0.000	Ug5_2_8_L_0						
11 D	6.381	3.0854E-20	21.48	11.91	21.48	11.91	V-C	4.1493E+04	-2.000	20.00	
1.000	1.000	31.91	0.000	0.000	Ug5_2_8_L_0						
12 D	6.976	3.1232E-20	23.67	12.88	23.67	12.88	V-C	4.1493E+04	-2.200	22.00	
1.000	1.000	34.88	0.000	0.000	Ug5_2_8_L_0						
13 D	7.570	3.1545E-20	25.71	13.85	25.71	13.85	V-C	4.1493E+04	-2.400	24.00	
1.000	1.000	37.85	0.000	0.000	Ug5_2_8_L_0						
14 D	8.163	3.1784E-20	27.86	14.82	27.86	14.82	V-C	4.1493E+04	-2.600	26.00	
1.000	1.000	40.82	0.000	0.000	Ug5_2_8_L_0						
15 D	8.756	3.1940E-20	29.98	15.78	29.98	15.78	V-C	4.1493E+04	-2.800	28.00	
1.000	1.000	43.78	0.000	0.000	Ug5_2_8_L_0						
16 D	9.349	3.2012E-20	32.10	16.74	32.10	16.74	V-C	4.1493E+04	-3.000	30.00	
1.000	1.000	46.74	0.000	0.000	Ug5_2_8_L_0						
17 D	9.941	3.1997E-20	34.11	17.70	34.11	17.70	V-C	4.1493E+04	-3.200	32.00	
1.000	1.000	49.70	0.000	0.000	Ug5_2_8_L_0						
18 D	10.53	3.1893E-20	36.20	18.66	36.20	18.66	V-C	4.1493E+04	-3.400	34.00	
1.000	1.000	52.66	0.000	0.000	Ug5_2_8_L_0						
19 D	11.13	3.1695E-20	38.29	19.63	38.29	19.63	V-C	4.1493E+04	-3.600	36.00	
1.000	1.000	55.63	0.000	0.000	Ug5_2_8_L_0						
20 D	11.72	3.1399E-20	40.29	20.59	40.29	20.59	V-C	4.1493E+04	-3.800	38.00	
1.000	1.000	58.59	0.000	0.000	Ug5_2_8_L_0						
21 D	12.31	3.1000E-20	42.36	21.55	42.36	21.55	V-C	4.1493E+04	-4.000	40.00	
1.000	1.000	61.55	0.000	0.000	Ug5_2_8_L_0						
22 D	12.90	3.0501E-20	44.43	22.51	44.43	22.51	V-C	4.1493E+04	-4.200	42.00	
1.000	1.000	64.51	0.000	0.000	Ug5_2_8_L_0						
23 D	13.49	2.9911E-20	46.43	23.47	46.43	23.47	V-C	4.1493E+04	-4.400	44.00	
1.000	1.000	67.47	0.000	0.000	Ug5_2_8_L_0						
24 D	14.09	2.9242E-20	48.48	24.43	48.48	24.43	V-C	4.1493E+04	-4.600	46.00	
1.000	1.000	70.43	0.000	0.000	Ug5_2_8_L_0						
25 D	14.68	2.8503E-20	50.54	25.39	50.54	25.39	V-C	4.1493E+04	-4.800	48.00	
1.000	1.000	73.39	0.000	0.000	Ug5_2_8_L_0						
26 D	15.27	2.7702E-20	52.59	26.36	52.59	26.36	V-C	4.1493E+04	-5.000	50.00	
1.000	1.000	76.36	0.000	0.000	Ug5_2_8_L_0						
27 D	15.86	2.6847E-20	54.58	27.32	54.58	27.32	V-C	4.1493E+04	-5.200	52.00	
1.000	1.000	79.32	0.000	0.000	Ug5_2_8_L_0						
28 D	16.46	2.5946E-20	56.63	28.28	56.63	28.28	V-C	4.1493E+04	-5.400	54.00	
1.000	1.000	82.28	0.000	0.000	Ug5_2_8_L_0						
29 D	17.05	2.5003E-20	58.67	29.25	58.67	29.25	V-C	4.1493E+04	-5.600	56.00	
1.000	1.000	85.25	0.000	0.000	Ug5_2_8_L_0						
30 D	17.64	2.4027E-20	60.66	30.22	60.66	30.22	V-C	4.1493E+04	-5.800	58.00	
1.000	1.000	88.22	0.000	0.000	Ug5_2_8_L_0						
31 D	18.24	2.3038E-20	62.70	31.18	62.70	31.18	V-C	4.1493E+04	-6.000	60.00	
1.000	1.000	91.18	0.000	0.000	Ug5_2_8_L_0						
32 D	18.83	2.2059E-20	64.74	32.15	64.74	32.15	V-C	4.1493E+04	-6.200	62.00	
1.000	1.000	94.15	0.000	0.000	Ug5_2_8_L_0						
33 D	19.42	2.1110E-20	66.73	33.12	66.73	33.12	V-C	4.1493E+04	-6.400	64.00	

1.000	1.000	97.12	0.000	0.000	Ug5_2_8_L_0					
34 D	20.02	2.0195E-20	68.76	34.09	68.76	34.09	V-C	4.1493E+04	-6.600	66.00
1.000	1.000	100.1	0.000	0.000	Ug5_2_8_L_0					
35 D	20.61	1.9314E-20	70.79	35.06	70.79	35.06	V-C	4.1493E+04	-6.800	68.00
1.000	1.000	103.1	0.000	0.000	Ug5_2_8_L_0					
36 D	21.21	1.8468E-20	72.82	36.03	72.82	36.03	V-C	4.1493E+04	-7.000	70.00
1.000	1.000	106.0	0.000	0.000	Ug5_2_8_L_0					
37 D	21.80	1.7655E-20	74.81	37.00	74.81	37.00	V-C	4.1493E+04	-7.200	72.00
1.000	1.000	109.0	0.000	0.000	Ug5_2_8_L_0					
38 D	22.39	1.6873E-20	76.84	37.97	76.84	37.97	V-C	4.1493E+04	-7.400	74.00
1.000	1.000	112.0	0.000	0.000	Ug5_2_8_L_0					
39 D	22.99	1.6120E-20	78.86	38.94	78.86	38.94	V-C	4.1493E+04	-7.600	76.00
1.000	1.000	114.9	0.000	0.000	Ug5_2_8_L_0					
40 D	23.58	1.5390E-20	80.85	39.92	80.85	39.92	V-C	4.1493E+04	-7.800	78.00
1.000	1.000	117.9	0.000	0.000	Ug5_2_8_L_0					
41 D	24.18	1.4665E-20	82.88	40.89	82.88	40.89	V-C	4.1493E+04	-8.000	80.00
1.000	1.000	120.9	0.000	0.000	Ug5_2_8_L_0					
42 D	24.77	1.3938E-20	84.90	41.86	84.90	41.86	V-C	4.1493E+04	-8.200	82.00
1.000	1.000	123.9	0.000	0.000	Ug5_2_8_L_0					
43 D	25.37	1.3204E-20	86.89	42.84	86.89	42.84	V-C	4.1493E+04	-8.400	84.00
1.000	1.000	126.8	0.000	0.000	Ug5_2_8_L_0					
44 D	25.96	1.2457E-20	88.91	43.82	88.91	43.82	V-C	4.1493E+04	-8.600	86.00
1.000	1.000	129.8	0.000	0.000	Ug5_2_8_L_0					
45 D	26.56	1.1692E-20	90.93	44.79	90.93	44.79	V-C	4.1493E+04	-8.800	88.00
1.000	1.000	132.8	0.000	0.000	Ug5_2_8_L_0					
46 D	27.15	1.0906E-20	92.96	45.77	92.96	45.77	V-C	4.1493E+04	-9.000	90.00
1.000	1.000	135.8	0.000	0.000	Ug5_2_8_L_0					
47 D	27.75	1.0109E-20	94.94	46.75	94.94	46.75	V-C	4.1493E+04	-9.200	92.00
1.000	1.000	138.7	0.000	0.000	Ug5_2_8_L_0					
48 D	28.35	9.3141E-21	96.96	47.73	96.96	47.73	V-C	4.1493E+04	-9.400	94.00
1.000	1.000	141.7	0.000	0.000	Ug5_2_8_L_0					
49 D	28.94	8.5336E-21	98.98	48.71	98.98	48.71	V-C	4.1493E+04	-9.600	96.00
1.000	1.000	144.7	0.000	0.000	Ug5_2_8_L_0					
50 D	29.54	7.7798E-21	101.0	49.69	101.0	49.69	V-C	4.1493E+04	-9.800	98.00
1.000	1.000	147.7	0.000	0.000	Ug5_2_8_L_0					
51 D	30.13	7.0647E-21	103.0	50.67	103.0	50.67	V-C	4.1493E+04	-10.00	100.00
1.000	1.000	150.7	0.000	0.000	Ug5_2_8_L_0					
52 D	30.73	6.3998E-21	105.0	51.65	105.0	51.65	V-C	4.1493E+04	-10.20	102.0
1.000	1.000	153.6	0.000	0.000	Ug5_2_8_L_0					
53 D	31.33	5.7963E-21	107.0	52.63	107.0	52.63	V-C	4.1493E+04	-10.40	104.0
1.000	1.000	156.6	0.000	0.000	Ug5_2_8_L_0					
54 D	31.92	5.2649E-21	109.0	53.61	109.0	53.61	V-C	4.1493E+04	-10.60	106.0
1.000	1.000	159.6	0.000	0.000	Ug5_2_8_L_0					
55 D	32.52	4.8163E-21	111.0	54.60	111.0	54.60	V-C	4.1493E+04	-10.80	108.0
1.000	1.000	162.6	0.000	0.000	Ug5_2_8_L_0					
56 D	33.12	4.4606E-21	113.0	55.58	113.0	55.58	V-C	4.1493E+04	-11.00	110.0
1.000	1.000	165.6	0.000	0.000	Ug5_2_8_L_0					
57 D	33.71	4.2078E-21	115.0	56.56	115.0	56.56	V-C	4.1493E+04	-11.20	112.0
1.000	1.000	168.6	0.000	0.000	Ug5_2_8_L_0					
58 D	34.31	4.0674E-21	117.0	57.55	117.0	57.55	V-C	4.1493E+04	-11.40	114.0
1.000	1.000	171.5	0.000	0.000	Ug5_2_8_L_0					
59 D	34.91	4.0486E-21	119.1	58.53	119.1	58.53	V-C	4.1493E+04	-11.60	116.0
1.000	1.000	174.5	0.000	0.000	Ug5_2_8_L_0					
60 D	35.50	4.1605E-21	121.1	59.52	121.1	59.52	V-C	4.1493E+04	-11.80	118.0
1.000	1.000	177.5	0.000	0.000	Ug5_2_8_L_0					
61 D	36.10	4.4116E-21	123.1	60.50	123.1	60.50	V-C	4.1493E+04	-12.00	120.0
1.000	1.000	180.5	0.000	0.000	Ug5_2_8_L_0					
62 D	36.68	4.8102E-21	124.9	61.39	124.9	61.39	V-C	2.0584E+04	-12.20	122.0
1.000	1.000	183.4	0.000	0.000	Ug6_741_743_L_0					
63 D	37.26	5.3642E-21	126.7	62.28	126.7	62.28	V-C	2.0584E+04	-12.40	124.0
1.000	1.000	186.3	0.000	0.000	Ug6_741_743_L_0					
64 D	37.83	6.0813E-21	128.5	63.16	128.5	63.16	V-C	2.0584E+04	-12.60	126.0
1.000	1.000	189.2	0.000	0.000	Ug6_741_743_L_0					
65 D	38.41	6.9690E-21	130.3	64.05	130.3	64.05	V-C	2.0584E+04	-12.80	128.0
1.000	1.000	192.1	0.000	0.000	Ug6_741_743_L_0					
66 D	38.99	8.0344E-21	132.0	64.94	132.0	64.94	V-C	2.0584E+04	-13.00	130.0
1.000	1.000	194.9	0.000	0.000	Ug6_741_743_L_0					
67 D	39.57	9.2845E-21	133.8	65.83	133.8	65.83	V-C	2.0584E+04	-13.20	132.0
1.000	1.000	197.8	0.000	0.000	Ug6_741_743_L_0					
68 D	40.14	1.0726E-20	135.6	66.72	135.6	66.72	V-C	2.0584E+04	-13.40	134.0
1.000	1.000	200.7	0.000	0.000	Ug6_741_743_L_0					
69 D	40.72	1.2365E-20	137.3	67.60	137.3	67.60	V-C	2.0584E+04	-13.60	136.0
1.000	1.000	203.6	0.000	0.000	Ug6_741_743_L_0					
70 D	41.30	1.4208E-20	139.1	68.49	139.1	68.49	V-C	2.0584E+04	-13.80	138.0
1.000	1.000	206.5	0.000	0.000	Ug6_741_743_L_0					
71 D	41.88	1.6260E-20	140.9	69.38	140.9	69.38	V-C	2.0584E+04	-14.00	140.0
1.000	1.000	209.4	0.000	0.000	Ug6_741_743_L_0					
72 D	42.45	1.8521E-20	142.7	70.27	142.7	70.27	V-C	2.0584E+04	-14.20	142.0
1.000	1.000	212.3	0.000	0.000	Ug6_741_743_L_0					
73 D	43.03	2.0953E-20	144.4	71.16	144.4	71.16	V-C	2.0584E+04	-14.40	144.0
1.000	1.000	215.2	0.000	0.000	Ug6_741_743_L_0					
74 D	43.61	2.3489E-20	146.2	72.05	146.2	72.05	V-C	2.0584E+04	-14.60	146.0
1.000	1.000	218.1	0.000	0.000	Ug6_741_743_L_0					
75 D	44.19	2.6058E-20	148.0	72.94	148.0	72.94	V-C	2.0584E+04	-14.80	148.0
1.000	1.000	220.9	0.000	0.000	Ug6_741_743_L_0					
76 D	44.77	2.8622E-20	149.7	73.84	149.7	73.84	V-C	2.0584E+04	-15.00	150.0
1.000	1.000	223.8	0.000	0.000	Ug6_741_743_L_0					
77 D	45.35	3.1179E-20	151.5	74.73	151.5	74.73	V-C	2.0584E+04	-15.20	152.0
1.000	1.000	226.7	0.000	0.000	Ug6_741_743_L_0					
78 D	45.92	3.3731E-20	153.3	75.62	153.3	75.62	V-C	2.0584E+04	-15.40	154.0
1.000	1.000	229.6	0.000	0.000	Ug6_741_743_L_0					

79 D	46.50	3.6280E-20	155.1	76.51	155.1	76.51	V-C	2.0584E+04	-15.60	156.0
1.000	1.000	232.5	0.000	0.000	Ug6_741_743_L_0					
80 D	47.08	3.8827E-20	156.8	77.40	156.8	77.40	V-C	2.0584E+04	-15.80	158.0
1.000	1.000	235.4	0.000	0.000	Ug6_741_743_L_0					
81 D	23.83	4.1374E-20	158.6	78.29	158.6	78.29	V-C	2.0584E+04	-16.00	160.0
1.000	1.000	238.3	0.000	0.000	Ug6_741_743_L_0					

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|                PARATIEPLUS(TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION *Build date:Jul 11, 2017*                |
|                                                                                                                                            |
|                                                                                                                                            |
|                NewProject.BaseDesignSection_28.SISMICAGEO_1847                                                                            |
|                Exe Time :24 May 2018  18:25:50                                                                                              |
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New Project

STRESS RESULTS FOR GROUP NO. 2

0\_R :  
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 81  
CURRENT TIME IS 1.0000

HARDENING 2D SOIL ELEMENT

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

EL * FACTOR	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
1 D	0.000	-2.5292E-20	0.000	0.000	0.000	0.000	V-C	2.6477E+04	0.000	0.000	
1.000	1.000	0.000	0.000	0.000	Ug5_2_8_L_0						
2 D	0.7141	-2.5897E-20	2.000	1.570	2.000	1.570	V-C	2.6477E+04	-0.2000	2.000	
1.000	1.000	3.570	0.000	0.000	Ug5_2_8_L_0						
3 D	1.411	-2.6501E-20	4.000	3.055	4.000	3.055	V-C	2.6477E+04	-0.4000	4.000	
1.000	1.000	7.055	0.000	0.000	Ug5_2_8_L_0						
4 D	2.083	-2.7103E-20	6.000	4.413	6.000	4.413	V-C	2.6477E+04	-0.6000	6.000	
1.000	1.000	10.41	0.000	0.000	Ug5_2_8_L_0						
5 D	2.730	-2.7700E-20	8.000	5.651	8.000	5.651	V-C	2.6477E+04	-0.8000	8.000	
1.000	1.000	13.65	0.000	0.000	Ug5_2_8_L_0						
6 D	3.359	-2.8287E-20	10.00	6.797	10.00	6.797	V-C	2.6477E+04	-1.000	10.00	
1.000	1.000	16.80	0.000	0.000	Ug5_2_8_L_0						
7 D	3.976	-2.8859E-20	12.00	7.879	12.00	7.879	V-C	2.6477E+04	-1.200	12.00	
1.000	1.000	19.88	0.000	0.000	Ug5_2_8_L_0						
8 D	4.584	-2.9410E-20	14.00	8.919	14.00	8.919	V-C	2.6477E+04	-1.400	14.00	
1.000	1.000	22.92	0.000	0.000	Ug5_2_8_L_0						
9 D	5.186	-2.9932E-20	16.00	9.931	16.00	9.931	V-C	2.6477E+04	-1.600	16.00	
1.000	1.000	25.93	0.000	0.000	Ug5_2_8_L_0						
10 D	5.785	-3.0417E-20	18.00	10.93	18.00	10.93	V-C	2.6477E+04	-1.800	18.00	
1.000	1.000	28.93	0.000	0.000	Ug5_2_8_L_0						
11 D	6.381	-3.0854E-20	20.00	11.91	20.00	11.91	V-C	2.6477E+04	-2.000	20.00	
1.000	1.000	31.91	0.000	0.000	Ug5_2_8_L_0						
12 D	6.976	-3.1232E-20	22.00	12.88	22.00	12.88	V-C	2.6477E+04	-2.200	22.00	
1.000	1.000	34.88	0.000	0.000	Ug5_2_8_L_0						
13 D	7.570	-3.1545E-20	24.00	13.85	24.00	13.85	V-C	2.6477E+04	-2.400	24.00	
1.000	1.000	37.85	0.000	0.000	Ug5_2_8_L_0						
14 D	8.163	-3.1784E-20	26.00	14.82	26.00	14.82	V-C	2.6477E+04	-2.600	26.00	
1.000	1.000	40.82	0.000	0.000	Ug5_2_8_L_0						
15 D	8.756	-3.1940E-20	28.00	15.78	28.00	15.78	V-C	2.6477E+04	-2.800	28.00	
1.000	1.000	43.78	0.000	0.000	Ug5_2_8_L_0						
16 D	9.349	-3.2012E-20	30.00	16.74	30.00	16.74	V-C	2.6477E+04	-3.000	30.00	
1.000	1.000	46.74	0.000	0.000	Ug5_2_8_L_0						
17 D	9.941	-3.1997E-20	32.00	17.70	32.00	17.70	V-C	2.6477E+04	-3.200	32.00	
1.000	1.000	49.70	0.000	0.000	Ug5_2_8_L_0						
18 D	10.53	-3.1893E-20	34.00	18.66	34.00	18.66	V-C	2.6477E+04	-3.400	34.00	
1.000	1.000	52.66	0.000	0.000	Ug5_2_8_L_0						
19 D	11.13	-3.1695E-20	36.00	19.63	36.00	19.63	V-C	2.6477E+04	-3.600	36.00	
1.000	1.000	55.63	0.000	0.000	Ug5_2_8_L_0						
20 D	11.72	-3.1399E-20	38.00	20.59	38.00	20.59	V-C	2.6477E+04	-3.800	38.00	
1.000	1.000	58.59	0.000	0.000	Ug5_2_8_L_0						
21 D	12.31	-3.1000E-20	40.00	21.55	40.00	21.55	V-C	2.6477E+04	-4.000	40.00	
1.000	1.000	61.55	0.000	0.000	Ug5_2_8_L_0						
22 D	12.90	-3.0501E-20	42.00	22.51	42.00	22.51	V-C	2.6477E+04	-4.200	42.00	
1.000	1.000	64.51	0.000	0.000	Ug5_2_8_L_0						
23 D	13.49	-2.9911E-20	44.00	23.47	44.00	23.47	V-C	2.6477E+04	-4.400	44.00	
1.000	1.000	67.47	0.000	0.000	Ug5_2_8_L_0						
24 D	14.09	-2.9242E-20	46.00	24.43	46.00	24.43	V-C	2.6477E+04	-4.600	46.00	
1.000	1.000	70.43	0.000	0.000	Ug5_2_8_L_0						
25 D	14.68	-2.8503E-20	48.00	25.39	48.00	25.39	V-C	2.6477E+04	-4.800	48.00	
1.000	1.000	73.39	0.000	0.000	Ug5_2_8_L_0						
26 D	15.27	-2.7702E-20	50.00	26.36	50.00	26.36	V-C	2.6477E+04	-5.000	50.00	
1.000	1.000	76.36	0.000	0.000	Ug5_2_8_L_0						
27 D	15.86	-2.6847E-20	52.00	27.32	52.00	27.32	V-C	2.6477E+04	-5.200	52.00	
1.000	1.000	79.32	0.000	0.000	Ug5_2_8_L_0						
28 D	16.46	-2.5946E-20	54.00	28.28	54.00	28.28	V-C	2.6477E+04	-5.400	54.00	
1.000	1.000	82.28	0.000	0.000	Ug5_2_8_L_0						
29 D	17.05	-2.5003E-20	56.00	29.25	56.00	29.25	V-C	2.6477E+04	-5.600	56.00	
1.000	1.000	85.25	0.000	0.000	Ug5_2_8_L_0						
30 D	17.64	-2.4027E-20	58.00	30.22	58.00	30.22	V-C	2.6477E+04	-5.800	58.00	
1.000	1.000	88.22	0.000	0.000	Ug5_2_8_L_0						
31 D	18.24	-2.3038E-20	60.00	31.18	60.00	31.18	V-C	2.6477E+04	-6.000	60.00	
1.000	1.000	91.18	0.000	0.000	Ug5_2_8_L_0						
32 D	18.83	-2.2059E-20	62.00	32.15	62.00	32.15	V-C	2.6477E+04	-6.200	62.00	
1.000	1.000	94.15	0.000	0.000	Ug5_2_8_L_0						
33 D	19.42	-2.1110E-20	64.00	33.12	64.00	33.12	V-C	2.6477E+04	-6.400	64.00	

1.000	1.000	97.12	0.000	0.000	Ug5_2_8_L_0					
34 D	20.02	-2.0195E-20	66.00	34.09	66.00	34.09	V-C	2.6477E+04	-6.600	66.00
1.000	1.000	100.1	0.000	0.000	Ug5_2_8_L_0					
35 D	20.61	-1.9314E-20	68.00	35.06	68.00	35.06	V-C	2.6477E+04	-6.800	68.00
1.000	1.000	103.1	0.000	0.000	Ug5_2_8_L_0					
36 D	21.21	-1.8468E-20	70.00	36.03	70.00	36.03	V-C	2.6477E+04	-7.000	70.00
1.000	1.000	106.0	0.000	0.000	Ug5_2_8_L_0					
37 D	21.80	-1.7655E-20	72.00	37.00	72.00	37.00	V-C	2.6477E+04	-7.200	72.00
1.000	1.000	109.0	0.000	0.000	Ug5_2_8_L_0					
38 D	22.39	-1.6873E-20	74.00	37.97	74.00	37.97	V-C	2.6477E+04	-7.400	74.00
1.000	1.000	112.0	0.000	0.000	Ug5_2_8_L_0					
39 D	22.99	-1.6120E-20	76.00	38.94	76.00	38.94	V-C	2.6477E+04	-7.600	76.00
1.000	1.000	114.9	0.000	0.000	Ug5_2_8_L_0					
40 D	23.58	-1.5390E-20	78.00	39.92	78.00	39.92	V-C	2.6477E+04	-7.800	78.00
1.000	1.000	117.9	0.000	0.000	Ug5_2_8_L_0					
41 D	24.18	-1.4665E-20	80.00	40.89	80.00	40.89	V-C	2.6477E+04	-8.000	80.00
1.000	1.000	120.9	0.000	0.000	Ug5_2_8_L_0					
42 D	24.77	-1.3938E-20	82.00	41.86	82.00	41.86	V-C	2.6477E+04	-8.200	82.00
1.000	1.000	123.9	0.000	0.000	Ug5_2_8_L_0					
43 D	25.37	-1.3204E-20	84.00	42.84	84.00	42.84	V-C	2.6477E+04	-8.400	84.00
1.000	1.000	126.8	0.000	0.000	Ug5_2_8_L_0					
44 D	25.96	-1.2457E-20	86.00	43.82	86.00	43.82	V-C	2.6477E+04	-8.600	86.00
1.000	1.000	129.8	0.000	0.000	Ug5_2_8_L_0					
45 D	26.56	-1.1692E-20	88.00	44.79	88.00	44.79	V-C	2.6477E+04	-8.800	88.00
1.000	1.000	132.8	0.000	0.000	Ug5_2_8_L_0					
46 D	27.15	-1.0906E-20	90.00	45.77	90.00	45.77	V-C	2.6477E+04	-9.000	90.00
1.000	1.000	135.8	0.000	0.000	Ug5_2_8_L_0					
47 D	27.75	-1.0109E-20	92.00	46.75	92.00	46.75	V-C	2.6477E+04	-9.200	92.00
1.000	1.000	138.7	0.000	0.000	Ug5_2_8_L_0					
48 D	28.35	-9.3141E-21	94.00	47.73	94.00	47.73	V-C	2.6477E+04	-9.400	94.00
1.000	1.000	141.7	0.000	0.000	Ug5_2_8_L_0					
49 D	28.94	-8.5336E-21	96.00	48.71	96.00	48.71	V-C	2.6477E+04	-9.600	96.00
1.000	1.000	144.7	0.000	0.000	Ug5_2_8_L_0					
50 D	29.54	-7.7798E-21	98.00	49.69	98.00	49.69	V-C	2.6477E+04	-9.800	98.00
1.000	1.000	147.7	0.000	0.000	Ug5_2_8_L_0					
51 D	30.13	-7.0647E-21	100.00	50.67	100.00	50.67	V-C	2.6477E+04	-10.000	100.00
1.000	1.000	150.7	0.000	0.000	Ug5_2_8_L_0					
52 D	30.73	-6.3998E-21	102.0	51.65	102.0	51.65	V-C	2.6477E+04	-10.200	102.0
1.000	1.000	153.6	0.000	0.000	Ug5_2_8_L_0					
53 D	31.33	-5.7963E-21	104.0	52.63	104.0	52.63	V-C	2.6477E+04	-10.400	104.0
1.000	1.000	156.6	0.000	0.000	Ug5_2_8_L_0					
54 D	31.92	-5.2649E-21	106.0	53.61	106.0	53.61	V-C	2.6477E+04	-10.600	106.0
1.000	1.000	159.6	0.000	0.000	Ug5_2_8_L_0					
55 D	32.52	-4.8163E-21	108.0	54.60	108.0	54.60	V-C	2.6477E+04	-10.800	108.0
1.000	1.000	162.6	0.000	0.000	Ug5_2_8_L_0					
56 D	33.12	-4.4606E-21	110.0	55.58	110.0	55.58	V-C	2.6477E+04	-11.000	110.0
1.000	1.000	165.6	0.000	0.000	Ug5_2_8_L_0					
57 D	33.71	-4.2078E-21	112.0	56.56	112.0	56.56	V-C	2.6477E+04	-11.200	112.0
1.000	1.000	168.6	0.000	0.000	Ug5_2_8_L_0					
58 D	34.31	-4.0674E-21	114.0	57.55	114.0	57.55	V-C	2.6477E+04	-11.400	114.0
1.000	1.000	171.5	0.000	0.000	Ug5_2_8_L_0					
59 D	34.91	-4.0486E-21	116.0	58.53	116.0	58.53	V-C	2.6477E+04	-11.600	116.0
1.000	1.000	174.5	0.000	0.000	Ug5_2_8_L_0					
60 D	35.50	-4.1605E-21	118.0	59.52	118.0	59.52	V-C	2.6477E+04	-11.800	118.0
1.000	1.000	177.5	0.000	0.000	Ug5_2_8_L_0					
61 D	36.10	-4.4116E-21	120.0	60.50	120.0	60.50	V-C	2.6477E+04	-12.000	120.0
1.000	1.000	180.5	0.000	0.000	Ug5_2_8_L_0					
62 D	36.68	-4.8102E-21	121.8	61.39	121.8	61.39	V-C	1.9214E+04	-12.200	122.0
1.000	1.000	183.4	0.000	0.000	Ug6_741_743_L_0					
63 D	37.26	-5.3642E-21	123.6	62.28	123.6	62.28	V-C	1.9214E+04	-12.400	124.0
1.000	1.000	186.3	0.000	0.000	Ug6_741_743_L_0					
64 D	37.83	-6.0813E-21	125.4	63.16	125.4	63.16	V-C	1.9214E+04	-12.600	126.0
1.000	1.000	189.2	0.000	0.000	Ug6_741_743_L_0					
65 D	38.41	-6.9690E-21	127.2	64.05	127.2	64.05	V-C	1.9214E+04	-12.800	128.0
1.000	1.000	192.1	0.000	0.000	Ug6_741_743_L_0					
66 D	38.99	-8.0344E-21	129.0	64.94	129.0	64.94	V-C	1.9214E+04	-13.000	130.0
1.000	1.000	194.9	0.000	0.000	Ug6_741_743_L_0					
67 D	39.57	-9.2845E-21	130.8	65.83	130.8	65.83	V-C	1.9214E+04	-13.200	132.0
1.000	1.000	197.8	0.000	0.000	Ug6_741_743_L_0					
68 D	40.14	-1.0726E-20	132.6	66.72	132.6	66.72	V-C	1.9214E+04	-13.400	134.0
1.000	1.000	200.7	0.000	0.000	Ug6_741_743_L_0					
69 D	40.72	-1.2365E-20	134.4	67.60	134.4	67.60	V-C	1.9214E+04	-13.600	136.0
1.000	1.000	203.6	0.000	0.000	Ug6_741_743_L_0					
70 D	41.30	-1.4208E-20	136.2	68.49	136.2	68.49	V-C	1.9214E+04	-13.800	138.0
1.000	1.000	206.5	0.000	0.000	Ug6_741_743_L_0					
71 D	41.88	-1.6260E-20	138.0	69.38	138.0	69.38	V-C	1.9214E+04	-14.000	140.0
1.000	1.000	209.4	0.000	0.000	Ug6_741_743_L_0					
72 D	42.45	-1.8521E-20	139.8	70.27	139.8	70.27	V-C	1.9214E+04	-14.200	142.0
1.000	1.000	212.3	0.000	0.000	Ug6_741_743_L_0					
73 D	43.03	-2.0953E-20	141.6	71.16	141.6	71.16	V-C	1.9214E+04	-14.400	144.0
1.000	1.000	215.2	0.000	0.000	Ug6_741_743_L_0					
74 D	43.61	-2.3489E-20	143.4	72.05	143.4	72.05	V-C	1.9214E+04	-14.600	146.0
1.000	1.000	218.1	0.000	0.000	Ug6_741_743_L_0					
75 D	44.19	-2.6058E-20	145.2	72.94	145.2	72.94	V-C	1.9214E+04	-14.800	148.0
1.000	1.000	220.9	0.000	0.000	Ug6_741_743_L_0					
76 D	44.77	-2.8622E-20	147.0	73.84	147.0	73.84	V-C	1.9214E+04	-15.000	150.0
1.000	1.000	223.8	0.000	0.000	Ug6_741_743_L_0					
77 D	45.35	-3.1179E-20	148.8	74.73	148.8	74.73	V-C	1.9214E+04	-15.200	152.0
1.000	1.000	226.7	0.000	0.000	Ug6_741_743_L_0					
78 D	45.92	-3.3731E-20	150.6	75.62	150.6	75.62	V-C	1.9214E+04	-15.400	154.0
1.000	1.000	229.6	0.000	0.000	Ug6_741_743_L_0					



79 D	46.50	-3.6280E-20	152.4	76.51	152.4	76.51	V-C	1.9214E+04	-15.60	156.0
1.000	1.000	232.5	0.000	0.000	Ug6_741_743_L_0					
80 D	47.08	-3.8827E-20	154.2	77.40	154.2	77.40	V-C	1.9214E+04	-15.80	158.0
1.000	1.000	235.4	0.000	0.000	Ug6_741_743_L_0					
81 D	23.83	-4.1374E-20	156.0	78.29	156.0	78.29	V-C	1.9214E+04	-16.00	160.0
1.000	1.000	238.3	0.000	0.000	Ug6_741_743_L_0					

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|                PARATIEPLUS(TM)   NLS ENGINE RELEASE 2017.1   FULL VERSION *Build date:Jul 11, 2017*                |
|                                                                              |
|                                                                              |
|                NewProject.BaseDesignSection_28.SISMICAGEO_1847                |
|                Exe Time :24 May 2018                18:25:50                |
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New Project

STRESS RESULTS FOR GROUP NO. 3

WallElement\_33 :  
ELEMENT TYPE 2 NO.OF ELEMENTS. IN THIS GROUP 80  
CURRENT TIME IS 1.0000

WALL2D ELEMENT

EL	TA	TB	MA	MB
1	1.02581E-16	-1.02581E-16	1.07916E-27	2.05163E-17
2	3.07941E-16	-3.07941E-16	-2.05163E-17	8.21044E-17
3	5.13492E-16	-5.13492E-16	-8.21044E-17	1.84803E-16
4	7.19226E-16	-7.19226E-16	-1.84803E-16	3.28648E-16
5	9.25122E-16	-9.25122E-16	-3.28648E-16	5.13672E-16
6	1.13114E-15	-1.13114E-15	-5.13672E-16	7.39901E-16
7	1.33724E-15	-1.33724E-15	-7.39901E-16	1.00735E-15
8	1.54333E-15	-1.54333E-15	-1.00735E-15	1.31601E-15
9	1.74934E-15	-1.74934E-15	-1.31601E-15	1.66588E-15
10	1.95513E-15	-1.95513E-15	-1.66588E-15	2.05691E-15
11	1.27241E-15	-1.27241E-15	-2.05691E-15	2.31139E-15
12	1.47737E-15	-1.47737E-15	-2.31139E-15	2.60687E-15
13	1.68165E-15	-1.68165E-15	-2.60687E-15	2.94320E-15
14	1.08696E-16	-1.08696E-16	-2.94320E-15	2.96493E-15
15	3.11002E-16	-3.11002E-16	-2.96493E-15	3.02713E-15
16	5.11978E-16	-5.11978E-16	-3.02713E-15	3.12953E-15
17	7.11374E-16	-7.11374E-16	-3.12953E-15	3.27181E-15
18	9.08932E-16	-9.08932E-16	-3.27181E-15	3.45359E-15
19	1.10438E-15	-1.10438E-15	-3.45359E-15	3.67447E-15
20	-4.78913E-16	4.78913E-16	-3.67447E-15	3.57869E-15
21	-2.06487E-15	2.06487E-15	-3.57869E-15	3.16571E-15
22	-1.87741E-15	1.87741E-15	-3.16571E-15	2.79023E-15
23	-1.69317E-15	1.69317E-15	-2.79023E-15	2.45160E-15
24	-1.51241E-15	1.51241E-15	-2.45160E-15	2.14911E-15
25	-1.33540E-15	1.33540E-15	-2.14911E-15	1.88203E-15
26	-1.16238E-15	1.16238E-15	-1.88203E-15	1.64956E-15
27	-9.93577E-16	9.93577E-16	-1.64956E-15	1.45084E-15
28	-8.29216E-16	8.29216E-16	-1.45084E-15	1.28500E-15
29	-4.22220E-15	4.22220E-15	-1.28500E-15	4.40560E-16
30	-4.06729E-15	4.06729E-15	-4.40560E-16	3.72897E-16
31	-3.91733E-15	3.91733E-15	-3.72897E-16	1.15636E-15
32	-2.19754E-16	2.19754E-16	-1.15636E-15	1.20031E-15
33	-8.00830E-17	8.00830E-17	-1.20031E-15	1.21633E-15
34	5.43171E-17	-5.43171E-17	1.21633E-15	-1.20546E-15
35	1.83395E-16	-1.83395E-16	1.20546E-15	-1.16878E-15
36	3.07126E-16	-3.07126E-16	1.16878E-15	-1.10736E-15
37	4.25513E-16	-4.25513E-16	1.10736E-15	-1.02226E-15
38	5.38586E-16	-5.38586E-16	1.02226E-15	-9.14540E-16
39	4.19912E-15	-4.19912E-15	9.14540E-16	-7.47169E-17
40	7.49049E-16	-7.49049E-16	7.47169E-17	7.50930E-17
41	8.46640E-16	-8.46640E-16	7.50930E-17	2.44421E-16
42	9.39317E-16	-9.39317E-16	2.44421E-16	4.32284E-16
43	1.02725E-15	-1.02725E-15	4.32284E-16	6.37735E-16
44	1.11064E-15	-1.11064E-15	6.37735E-16	8.59862E-16
45	-2.36299E-15	2.36299E-15	-8.59862E-16	3.87265E-16
46	-2.28796E-15	2.28796E-15	-3.87265E-16	7.03272E-17
47	-2.21669E-15	2.21669E-15	-7.03272E-17	5.13666E-16
48	-2.14887E-15	2.14887E-15	-5.13666E-16	9.43440E-16
49	-2.08414E-15	2.08414E-15	-9.43440E-16	1.36027E-15
50	-2.02214E-15	2.02214E-15	-1.36027E-15	1.76469E-15
51	-1.96245E-15	1.96245E-15	-1.76469E-15	2.15719E-15
52	-1.90464E-15	1.90464E-15	-2.15719E-15	2.53810E-15
53	-1.84827E-15	1.84827E-15	-2.53810E-15	2.90776E-15
54	-1.79285E-15	1.79285E-15	-2.90776E-15	3.26633E-15
55	-1.73790E-15	1.73790E-15	-3.26633E-15	3.61391E-15
56	-1.68290E-15	1.68290E-15	-3.61391E-15	3.95049E-15
57	-1.62732E-15	1.62732E-15	-3.95049E-15	4.27595E-15
58	-1.57064E-15	1.57064E-15	-4.27595E-15	4.59008E-15
59	-1.51231E-15	1.51231E-15	-4.59008E-15	4.89254E-15
60	-1.45179E-15	1.45179E-15	-4.89254E-15	5.18290E-15
61	-1.38857E-15	1.38857E-15	-5.18290E-15	5.46061E-15
62	-1.34965E-15	1.34965E-15	-5.46061E-15	5.73054E-15
63	-1.30853E-15	1.30853E-15	-5.73054E-15	5.99224E-15
64	-1.26493E-15	1.26493E-15	-5.99224E-15	6.24523E-15
65	-1.21856E-15	1.21856E-15	-6.24523E-15	6.48894E-15
66	-1.16917E-15	1.16917E-15	-6.48894E-15	6.72278E-15
67	-1.11651E-15	1.11651E-15	-6.72278E-15	6.94608E-15
68	-1.06035E-15	1.06035E-15	-6.94608E-15	7.15815E-15
69	-1.00048E-15	1.00048E-15	-7.15815E-15	7.35825E-15

70-9.36697E-16 9.36697E-16 7.35825E-15-7.54559E-15  
71 6.23659E-15-6.23659E-15 7.54559E-15-6.29827E-15  
72 1.34141E-14-1.34141E-14 6.29827E-15-3.61545E-15  
73 1.34905E-14-1.34905E-14 3.61545E-15-9.17341E-16  
74 6.46601E-15-6.46601E-15 9.17341E-16 3.75860E-16  
75-5.53975E-16 5.53975E-16-3.75860E-16 2.65065E-16  
76-4.63915E-16 4.63915E-16-2.65065E-16 1.72282E-16  
77-3.69193E-16 3.69193E-16-1.72282E-16 9.84431E-17  
78-2.69777E-16 2.69777E-16-9.84431E-17 4.44878E-17  
79-1.65645E-16 1.65645E-16-4.44878E-17 1.13587E-17  
80-5.67908E-17 5.67908E-17-1.13587E-17 1.31266E-27

ITER 0 RNORM = 0.000 RMNORM= 0.000  
RINORM=0.1133E+06 RIMNOR=0.1606E-26  
RENORM= 302.6 REMNOR=0.4358E-52 RATIO =0.5168E-01 TOLER =0.1000E-03 NOT CONVERGED  
RFMAX = 46.57 RMMAX =0.7546E-14  
RTSMAL=0.1000E-03 RMSMAL=0.1000E-19  
RDT =0.1133E+06 RDR =0.1000E-19  
RATIOT=0.5168E-01 RATIO= 0.000  
MAX UN= 3.327 IEQ= 11 NODE 6 DOF 1 Y-DISPL.F  
MIN UN=-.1026E-15 IEQ= 1 NODE 1 DOF 1 Y-DISPL.F  
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 2 RNORM = 0.000 RMNORM= 0.000  
RINORM=0.1133E+06 RIMNOR=0.1606E-26  
RENORM= 16.06 REMNOR=0.2770E-21 RATIO =0.1191E-01 TOLER =0.1000E-03 NOT CONVERGED  
RFMAX = 46.57 RMMAX =0.7546E-14  
RTSMAL=0.1000E-03 RMSMAL=0.1000E-19  
RDT =0.1133E+06 RDR =0.1000E-19  
RATIOT=0.1191E-01 RATIO= 0.000  
MAX UN= 1.612 IEQ= 3 NODE 2 DOF 1 Y-DISPL.F  
MIN UN=-.3067E-10 IEQ= 159 NODE 80 DOF 1 Y-DISPL.F  
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 3 RNORM = 0.000 RMNORM= 0.000  
RINORM=0.1133E+06 RIMNOR=0.1606E-26  
RENORM= 11.03 REMNOR=0.1657E-20 RATIO =0.9867E-02 TOLER =0.1000E-03 NOT CONVERGED  
RFMAX = 46.57 RMMAX =0.7546E-14  
RTSMAL=0.1000E-03 RMSMAL=0.1000E-19  
RDT =0.1133E+06 RDR =0.1000E-19  
RATIOT=0.9867E-02 RATIO= 0.000  
MAX UN= 1.904 IEQ= 35 NODE 18 DOF 1 Y-DISPL.F  
MIN UN=-.2304E-09 IEQ= 3 NODE 2 DOF 1 Y-DISPL.F  
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 4 RNORM = 0.000 RMNORM= 0.000  
RINORM=0.1133E+06 RIMNOR=0.1606E-26  
RENORM=0.3250 REMNOR=0.3919E-21 RATIO =0.1694E-02 TOLER =0.1000E-03 NOT CONVERGED  
RFMAX = 46.57 RMMAX =0.7546E-14  
RTSMAL=0.1000E-03 RMSMAL=0.1000E-19  
RDT =0.1133E+06 RDR =0.1000E-19  
RATIOT=0.1694E-02 RATIO= 0.000  
MAX UN=0.4964 IEQ= 51 NODE 26 DOF 1 Y-DISPL.F  
MIN UN=-.1316E-09 IEQ= 21 NODE 11 DOF 1 Y-DISPL.F  
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 5 RNORM = 0.000 RMNORM= 0.000  
RINORM=0.1133E+06 RIMNOR=0.1606E-26  
RENORM=0.1380E-03 REMNOR=0.2743E-21 RATIO =0.3490E-04 TOLER =0.1000E-03 CONVERGED !  
RFMAX = 46.57 RMMAX =0.7546E-14  
RTSMAL=0.1000E-03 RMSMAL=0.1000E-19  
RDT =0.1133E+06 RDR =0.1000E-19  
RATIOT=0.3490E-04 RATIO= 0.000  
MAX UN=0.1175E-01 IEQ= 73 NODE 37 DOF 1 Y-DISPL.F  
MIN UN=-.1984E-09 IEQ= 19 NODE 10 DOF 1 Y-DISPL.F  
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

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|                PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                                                                            |
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|                NewProject.BaseDesignSection_28.SISMICAGEO_1847  |
|                Exe Time :24 May 2018  18:25:50  |
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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	4.4071210E-04	-8.1139219E-05	
2	4.2448426E-04	-8.1139219E-05	
3	4.0825691E-04	-8.1131827E-05	
4	3.9203350E-04	-8.1094828E-05	
5	3.7582342E-04	-8.0991101E-05	
6	3.5964498E-04	-8.0768538E-05	
7	3.4352841E-04	-8.0359989E-05	
8	3.2751679E-04	-7.9714356E-05	
9	3.1165898E-04	-7.8824070E-05	
10	2.9600265E-04	-7.7701558E-05	
11	2.8059300E-04	-7.6359420E-05	
12	2.6547267E-04	-7.4810381E-05	
13	2.5068179E-04	-7.3067131E-05	
14	2.3625791E-04	-7.1142481E-05	
15	2.2223603E-04	-6.9049402E-05	
16	2.0864851E-04	-6.6800973E-05	
17	1.9552505E-04	-6.4410444E-05	
18	1.8289283E-04	-6.1891443E-05	
19	1.7077610E-04	-5.9257985E-05	
20	1.5919630E-04	-5.6524521E-05	
21	1.4817201E-04	-5.3706095E-05	
22	1.3771854E-04	-5.0818385E-05	
23	1.2784818E-04	-4.7877809E-05	
24	1.1856979E-04	-4.4901624E-05	
25	1.0988869E-04	-4.1908040E-05	
26	1.0180645E-04	-3.8916255E-05	
27	9.4320751E-05	-3.5946572E-05	
28	8.7424957E-05	-3.3020489E-05	
29	8.1108124E-05	-3.0160884E-05	
30	7.5354700E-05	-2.7389826E-05	
31	7.0145064E-05	-2.4725714E-05	
32	6.5456360E-05	-2.2182775E-05	
33	6.1263202E-05	-1.9771473E-05	
34	5.7538514E-05	-1.7499022E-05	
35	5.4254048E-05	-1.5369745E-05	
36	5.1380948E-05	-1.3385479E-05	
37	4.8890219E-05	-1.1545953E-05	
38	4.6753058E-05	-9.8492520E-06	
39	4.4941226E-05	-8.2919311E-06	
40	4.3427334E-05	-6.8688790E-06	
41	4.2185151E-05	-5.5736836E-06	
42	4.1189830E-05	-4.3989548E-06	
43	4.0418076E-05	-3.3366167E-06	
44	3.9848257E-05	-2.3781720E-06	
45	3.9460462E-05	-1.5149430E-06	
46	3.9236512E-05	-7.3826681E-07	
47	3.9159947E-05	-3.9710737E-08	
48	3.9215956E-05	5.8877752E-07	
49	3.9391288E-05	1.1547160E-06	
50	3.9674128E-05	1.6649542E-06	
51	4.0053960E-05	2.1255663E-06	
52	4.0521404E-05	2.5417429E-06	
53	4.1067956E-05	2.9176523E-06	
54	4.1685967E-05	3.2564941E-06	
55	4.2368216E-05	3.5602738E-06	
56	4.3107795E-05	3.8298292E-06	
57	4.3897839E-05	4.0647585E-06	
58	4.4731277E-05	4.2633741E-06	
59	4.5600567E-05	4.4226651E-06	
60	4.6497431E-05	4.5382669E-06	
61	4.7412579E-05	4.6044375E-06	
62	4.8335435E-05	4.6140431E-06	
63	4.9254572E-05	4.5692952E-06	
64	5.0160310E-05	4.4819055E-06	
65	5.1045200E-05	4.3625031E-06	
66	5.1903814E-05	4.2206457E-06	
67	5.2732529E-05	4.0648368E-06	
68	5.3529317E-05	3.9025436E-06	
69	5.4293544E-05	3.7402193E-06	
70	5.5025766E-05	3.5833242E-06	
71	5.5727535E-05	3.4363485E-06	
72	5.6401203E-05	3.3028331E-06	
73	5.7049740E-05	3.1853896E-06	

74	5.7676544E-05	3.0857190E-06
75	5.8285266E-05	3.0046271E-06
76	5.8879628E-05	2.9420385E-06
77	5.9463252E-05	2.8970074E-06
78	6.0039481E-05	2.8677266E-06
79	6.0611215E-05	2.8515334E-06
80	6.1180733E-05	2.8449138E-06
81	6.1749556E-05	2.8435050E-06

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|                PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*                |
|                                                                                                                                            |
|                                                                                                                                            |
|                NewProject.BaseDesignSection_28.SISMICAGEO_1847                                                                                   |
|                Exe Time :24 May 2018  18:25:50                                                                                               |
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New Project

STRESS RESULTS FOR GROUP NO. 1

0\_L  
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 81  
CURRENT TIME IS 2.0000

HARDENING 2D SOIL ELEMENT

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

EL * FACTOR	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
1 D	0.000	-4.4071E-04	0.000	0.000	0.000	0.000	ACTIVE	0.000	0.000	0.000	
1.000	1.000	0.000	0.000	0.000	Ug5_2_8_L_0						
2 D	0.5193	-4.2448E-04	2.073	0.6612	2.073	1.603	ACTIVE	0.000	-0.2000	1.935	
1.000	1.000	2.597	0.000	0.000	Ug5_2_8_L_0						
3 D	1.041	-4.0826E-04	4.186	1.335	4.186	3.119	ACTIVE	0.000	-0.4000	3.871	
1.000	1.000	5.206	0.000	0.000	Ug5_2_8_L_0						
4 D	1.567	-3.9203E-04	6.351	2.026	6.351	4.509	ACTIVE	0.000	-0.6000	5.806	
1.000	1.000	7.833	0.000	0.000	Ug5_2_8_L_0						
5 D	2.094	-3.7582E-04	8.555	2.729	8.555	5.780	ACTIVE	0.000	-0.8000	7.742	
1.000	1.000	10.47	0.000	0.000	Ug5_2_8_L_0						
6 D	2.623	-3.5964E-04	10.78	3.438	10.78	6.958	ACTIVE	0.000	-1.000	9.677	
1.000	1.000	13.12	0.000	0.000	Ug5_2_8_L_0						
7 D	3.152	-3.4353E-04	13.00	4.146	13.00	8.073	ACTIVE	0.000	-1.200	11.61	
1.000	1.000	15.76	0.000	0.000	Ug5_2_8_L_0						
8 D	3.687	-3.2752E-04	15.33	4.889	15.33	9.145	ACTIVE	0.000	-1.400	13.55	
1.000	1.000	18.44	0.000	0.000	Ug5_2_8_L_0						
9 D	4.226	-3.1166E-04	17.69	5.644	17.69	10.19	ACTIVE	0.000	-1.600	15.48	
1.000	1.000	21.13	0.000	0.000	Ug5_2_8_L_0						
10 D	4.750	-2.9600E-04	19.84	6.331	19.84	11.22	ACTIVE	0.000	-1.800	17.42	
1.000	1.000	23.75	0.000	0.000	Ug5_2_8_L_0						
11 D	5.283	-2.8059E-04	22.13	7.059	22.13	12.23	ACTIVE	0.000	-2.000	19.35	
1.000	1.000	26.41	0.000	0.000	Ug5_2_8_L_0						
12 D	5.813	-2.6547E-04	24.38	7.777	24.38	13.24	ACTIVE	0.000	-2.200	21.29	
1.000	1.000	29.07	0.000	0.000	Ug5_2_8_L_0						
13 D	6.335	-2.5068E-04	26.48	8.448	26.48	14.24	ACTIVE	0.000	-2.400	23.23	
1.000	1.000	31.67	0.000	0.000	Ug5_2_8_L_0						
14 D	6.863	-2.3626E-04	28.70	9.154	28.70	15.24	ACTIVE	0.000	-2.600	25.16	
1.000	1.000	34.32	0.000	0.000	Ug5_2_8_L_0						
15 D	7.390	-2.2224E-04	30.89	9.853	30.89	16.23	ACTIVE	0.000	-2.800	27.10	
1.000	1.000	36.95	0.000	0.000	Ug5_2_8_L_0						
16 D	7.916	-2.0865E-04	33.06	10.55	33.06	17.23	ACTIVE	0.000	-3.000	29.03	
1.000	1.000	39.58	0.000	0.000	Ug5_2_8_L_0						
17 D	8.435	-1.9553E-04	35.14	11.21	35.14	18.22	ACTIVE	0.000	-3.200	30.97	
1.000	1.000	42.18	0.000	0.000	Ug5_2_8_L_0						
18 D	8.960	-1.8289E-04	37.30	11.90	37.30	19.21	ACTIVE	0.000	-3.400	32.90	
1.000	1.000	44.80	0.000	0.000	Ug5_2_8_L_0						
19 D	9.485	-1.7078E-04	39.45	12.58	39.45	20.21	ACTIVE	0.000	-3.600	34.84	
1.000	1.000	47.42	0.000	0.000	Ug5_2_8_L_0						
20 D	10.00	-1.5920E-04	41.51	13.24	41.51	21.20	ACTIVE	0.000	-3.800	36.77	
1.000	1.000	50.02	0.000	0.000	Ug5_2_8_L_0						
21 D	10.53	-1.4817E-04	43.65	13.93	43.65	22.19	ACTIVE	0.000	-4.000	38.71	
1.000	1.000	52.63	0.000	0.000	Ug5_2_8_L_0						
22 D	11.05	-1.3772E-04	45.78	14.61	45.78	23.18	ACTIVE	0.000	-4.200	40.65	
1.000	1.000	55.25	0.000	0.000	Ug5_2_8_L_0						
23 D	11.57	-1.2785E-04	47.84	15.26	47.84	24.18	ACTIVE	0.000	-4.400	42.58	
1.000	1.000	57.84	0.000	0.000	Ug5_2_8_L_0						
24 D	12.09	-1.1857E-04	49.97	15.94	49.97	25.17	ACTIVE	0.000	-4.600	44.52	
1.000	1.000	60.46	0.000	0.000	Ug5_2_8_L_0						
25 D	12.61	-1.0989E-04	52.09	16.62	52.09	26.17	ACTIVE	0.000	-4.800	46.45	
1.000	1.000	63.07	0.000	0.000	Ug5_2_8_L_0						
26 D	13.14	-1.0181E-04	54.20	17.29	54.20	27.16	ACTIVE	0.000	-5.000	48.39	
1.000	1.000	65.68	0.000	0.000	Ug5_2_8_L_0						
27 D	13.65	-9.4321E-05	56.26	17.95	56.26	28.16	ACTIVE	0.000	-5.200	50.32	
1.000	1.000	68.27	0.000	0.000	Ug5_2_8_L_0						
28 D	14.18	-8.7425E-05	58.37	18.62	58.37	29.16	ACTIVE	0.000	-5.400	52.26	
1.000	1.000	70.88	0.000	0.000	Ug5_2_8_L_0						
29 D	14.85	-8.1108E-05	60.48	20.06	60.48	30.15	UL-RL	1.2448E+05	-5.600	54.19	
1.000	1.000	74.25	0.000	0.000	Ug5_2_8_L_0						
30 D	15.58	-7.5355E-05	62.53	21.77	62.53	31.15	UL-RL	1.2448E+05	-5.800	56.13	
1.000	1.000	77.90	0.000	0.000	Ug5_2_8_L_0						
31 D	16.30	-7.0145E-05	64.63	23.42	64.63	32.15	UL-RL	1.2448E+05	-6.000	58.06	
1.000	1.000	81.48	0.000	0.000	Ug5_2_8_L_0						
32 D	17.00	-6.5456E-05	66.74	25.00	66.74	33.15	UL-RL	1.2448E+05	-6.200	60.00	
1.000	1.000	85.00	0.000	0.000	Ug5_2_8_L_0						
33 D	17.69	-6.1263E-05	68.79	26.52	68.79	34.15	UL-RL	1.2448E+05	-6.400	61.94	

1.000	1.000	88.46	0.000	0.000	Ug5_2_8_L_0					
34 D	18.37	-5.7539E-05	70.89	27.99	70.89	35.15	UL-RL	1.2448E+05	-6.600	63.87
1.000	1.000	91.86	0.000	0.000	Ug5_2_8_L_0					
35 D	19.04	-5.4254E-05	72.98	29.40	72.98	36.15	UL-RL	1.2448E+05	-6.800	65.81
1.000	1.000	95.21	0.000	0.000	Ug5_2_8_L_0					
36 D	19.70	-5.1381E-05	75.08	30.76	75.08	37.16	UL-RL	1.2448E+05	-7.000	67.74
1.000	1.000	98.50	0.000	0.000	Ug5_2_8_L_0					
37 D	20.35	-4.8890E-05	77.13	32.07	77.13	38.16	UL-RL	1.2448E+05	-7.200	69.68
1.000	1.000	101.8	0.000	0.000	Ug5_2_8_L_0					
38 D	20.99	-4.6753E-05	79.22	33.34	79.22	39.16	UL-RL	1.2448E+05	-7.400	71.61
1.000	1.000	105.0	0.000	0.000	Ug5_2_8_L_0					
39 D	21.62	-4.4941E-05	81.32	34.57	81.32	40.17	UL-RL	1.2448E+05	-7.600	73.55
1.000	1.000	108.1	0.000	0.000	Ug5_2_8_L_0					
40 D	22.25	-4.3427E-05	83.37	35.77	83.37	41.17	UL-RL	1.2448E+05	-7.800	75.48
1.000	1.000	111.3	0.000	0.000	Ug5_2_8_L_0					
41 D	22.87	-4.2185E-05	85.46	36.93	85.46	42.18	UL-RL	1.2448E+05	-8.000	77.42
1.000	1.000	114.3	0.000	0.000	Ug5_2_8_L_0					
42 D	23.48	-4.1190E-05	87.55	38.06	87.55	43.19	UL-RL	1.2448E+05	-8.200	79.35
1.000	1.000	117.4	0.000	0.000	Ug5_2_8_L_0					
43 D	24.09	-4.0418E-05	89.60	39.16	89.60	44.19	UL-RL	1.2448E+05	-8.400	81.29
1.000	1.000	120.5	0.000	0.000	Ug5_2_8_L_0					
44 D	24.69	-3.9848E-05	91.69	40.24	91.69	45.20	UL-RL	1.2448E+05	-8.600	83.23
1.000	1.000	123.5	0.000	0.000	Ug5_2_8_L_0					
45 D	25.29	-3.9460E-05	93.77	41.30	93.77	46.21	UL-RL	1.2448E+05	-8.800	85.16
1.000	1.000	126.5	0.000	0.000	Ug5_2_8_L_0					
46 D	25.89	-3.9237E-05	95.86	42.34	95.86	47.22	UL-RL	1.2448E+05	-9.000	87.10
1.000	1.000	129.4	0.000	0.000	Ug5_2_8_L_0					
47 D	26.48	-3.9160E-05	97.91	43.36	97.91	48.23	UL-RL	1.2448E+05	-9.200	89.03
1.000	1.000	132.4	0.000	0.000	Ug5_2_8_L_0					
48 D	27.07	-3.9216E-05	100.00	44.36	100.00	49.24	UL-RL	1.2448E+05	-9.400	90.97
1.000	1.000	135.3	0.000	0.000	Ug5_2_8_L_0					
49 D	27.65	-3.9391E-05	102.1	45.35	102.1	50.26	UL-RL	1.2448E+05	-9.600	92.90
1.000	1.000	138.3	0.000	0.000	Ug5_2_8_L_0					
50 D	28.23	-3.9674E-05	104.1	46.33	104.1	51.27	UL-RL	1.2448E+05	-9.800	94.84
1.000	1.000	141.2	0.000	0.000	Ug5_2_8_L_0					
51 D	28.81	-4.0054E-05	106.2	47.29	106.2	52.28	UL-RL	1.2448E+05	-10.000	96.77
1.000	1.000	144.1	0.000	0.000	Ug5_2_8_L_0					
52 D	29.39	-4.0521E-05	108.3	48.25	108.3	53.29	UL-RL	1.2448E+05	-10.200	98.71
1.000	1.000	147.0	0.000	0.000	Ug5_2_8_L_0					
53 D	29.97	-4.1068E-05	110.3	49.20	110.3	54.31	UL-RL	1.2448E+05	-10.400	100.6
1.000	1.000	149.8	0.000	0.000	Ug5_2_8_L_0					
54 D	30.54	-4.1686E-05	112.4	50.13	112.4	55.32	UL-RL	1.2448E+05	-10.600	102.6
1.000	1.000	152.7	0.000	0.000	Ug5_2_8_L_0					
55 D	31.12	-4.2368E-05	114.5	51.06	114.5	56.34	UL-RL	1.2448E+05	-10.800	104.5
1.000	1.000	155.6	0.000	0.000	Ug5_2_8_L_0					
56 D	31.69	-4.3108E-05	116.6	51.99	116.6	57.35	UL-RL	1.2448E+05	-11.000	106.5
1.000	1.000	158.4	0.000	0.000	Ug5_2_8_L_0					
57 D	32.26	-4.3898E-05	118.6	52.90	118.6	58.37	UL-RL	1.2448E+05	-11.200	108.4
1.000	1.000	161.3	0.000	0.000	Ug5_2_8_L_0					
58 D	32.83	-4.4731E-05	120.7	53.82	120.7	59.39	UL-RL	1.2448E+05	-11.400	110.3
1.000	1.000	164.1	0.000	0.000	Ug5_2_8_L_0					
59 D	33.40	-4.5601E-05	122.8	54.73	122.8	60.40	UL-RL	1.2448E+05	-11.600	112.3
1.000	1.000	167.0	0.000	0.000	Ug5_2_8_L_0					
60 D	33.97	-4.6497E-05	124.9	55.63	124.9	61.42	UL-RL	1.2448E+05	-11.800	114.2
1.000	1.000	169.8	0.000	0.000	Ug5_2_8_L_0					
61 D	34.53	-4.7413E-05	126.9	56.54	126.9	62.44	UL-RL	1.2448E+05	-12.000	116.1
1.000	1.000	172.7	0.000	0.000	Ug5_2_8_L_0					
62 D	35.09	-4.8335E-05	128.8	60.37	128.8	63.36	UL-RL	6.1752E+04	-12.200	118.1
1.000	1.000	178.4	0.000	0.000	Ug6_741_743_L_0					
63 D	36.25	-4.9255E-05	130.7	61.23	130.7	64.28	UL-RL	6.1752E+04	-12.400	120.0
1.000	1.000	181.2	0.000	0.000	Ug6_741_743_L_0					
64 D	36.81	-5.0160E-05	132.5	62.10	132.5	65.20	UL-RL	6.1752E+04	-12.600	121.9
1.000	1.000	184.0	0.000	0.000	Ug6_741_743_L_0					
65 D	37.37	-5.1045E-05	134.4	62.96	134.4	66.12	UL-RL	6.1752E+04	-12.800	123.9
1.000	1.000	186.8	0.000	0.000	Ug6_741_743_L_0					
66 D	37.93	-5.1904E-05	136.2	63.83	136.2	67.04	UL-RL	6.1752E+04	-13.000	125.8
1.000	1.000	189.6	0.000	0.000	Ug6_741_743_L_0					
67 D	38.49	-5.2733E-05	138.1	64.70	138.1	67.96	UL-RL	6.1752E+04	-13.200	127.7
1.000	1.000	192.4	0.000	0.000	Ug6_741_743_L_0					
68 D	39.05	-5.3529E-05	139.9	65.57	139.9	68.88	UL-RL	6.1752E+04	-13.400	129.7
1.000	1.000	195.2	0.000	0.000	Ug6_741_743_L_0					
69 D	39.61	-5.4294E-05	141.7	66.44	141.7	69.80	UL-RL	6.1752E+04	-13.600	131.6
1.000	1.000	198.1	0.000	0.000	Ug6_741_743_L_0					
70 D	40.17	-5.5026E-05	143.6	67.32	143.6	70.72	UL-RL	6.1752E+04	-13.800	133.5
1.000	1.000	200.9	0.000	0.000	Ug6_741_743_L_0					
71 D	40.74	-5.5728E-05	145.4	68.20	145.4	71.64	UL-RL	6.1752E+04	-14.000	135.5
1.000	1.000	203.7	0.000	0.000	Ug6_741_743_L_0					
72 D	41.30	-5.6401E-05	147.2	69.08	147.2	72.56	UL-RL	6.1752E+04	-14.200	137.4
1.000	1.000	206.5	0.000	0.000	Ug6_741_743_L_0					
73 D	41.86	-5.7050E-05	149.1	69.96	149.1	73.49	UL-RL	6.1752E+04	-14.400	139.4
1.000	1.000	209.3	0.000	0.000	Ug6_741_743_L_0					
74 D	42.43	-5.7677E-05	150.9	70.85	150.9	74.41	UL-RL	6.1752E+04	-14.600	141.3
1.000	1.000	212.1	0.000	0.000	Ug6_741_743_L_0					
75 D	42.99	-5.8285E-05	152.7	71.73	152.7	75.33	UL-RL	6.1752E+04	-14.800	143.2
1.000	1.000	215.0	0.000	0.000	Ug6_741_743_L_0					
76 D	43.56	-5.8880E-05	154.6	72.62	154.6	76.25	UL-RL	6.1752E+04	-15.000	145.2
1.000	1.000	217.8	0.000	0.000	Ug6_741_743_L_0					
77 D	44.12	-5.9463E-05	156.4	73.51	156.4	77.18	UL-RL	6.1752E+04	-15.200	147.1
1.000	1.000	220.6	0.000	0.000	Ug6_741_743_L_0					
78 D	44.69	-6.0039E-05	158.3	74.39	158.3	78.10	UL-RL	6.1752E+04	-15.400	149.0
1.000	1.000	223.4	0.000	0.000	Ug6_741_743_L_0					

79 D	45.25	-6.0611E-05	160.1	75.28	160.1	79.03	UL-RL	6.1752E+04	-15.60	151.0
1.000	1.000	226.3	0.000	0.000	Ug6_741_743_L_0					
80 D	45.82	-6.1181E-05	161.9	76.17	161.9	79.95	UL-RL	6.1752E+04	-15.80	152.9
1.000	1.000	229.1	0.000	0.000	Ug6_741_743_L_0					
81 D	23.19	-6.1750E-05	163.8	77.06	163.8	80.88	UL-RL	6.1752E+04	-16.00	154.8
1.000	1.000	231.9	0.000	0.000	Ug6_741_743_L_0					



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|                PARATIEPLUS(TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION *Build date:Jul 11, 2017*                |
|                                                                                                                                            |
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|                NewProject.BaseDesignSection_28.SISMICAGEO_1847                                                                            |
|                Exe Time :24 May 2018  18:25:50                                                                                              |
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New Project

STRESS RESULTS FOR GROUP NO. 2

0\_R  
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 81  
CURRENT TIME IS 2.0000

HARDENING 2D SOIL ELEMENT

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

EL * FACTOR	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
1	0.000	--	--	--	--	--	REMOVED	--	0.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
2	0.000	--	--	--	--	--	REMOVED	--	-0.2000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
3	0.000	--	--	--	--	--	REMOVED	--	-0.4000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
4	0.000	--	--	--	--	--	REMOVED	--	-0.6000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
5	0.000	--	--	--	--	--	REMOVED	--	-0.8000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
6 D	0.000	3.5964E-04	0.000	0.000	10.00	6.797	PASSIVE	0.000	-1.000	0.000	
1.000	1.000	0.000	0.000	0.000	Ug5_2_8_L_0						
7 D	2.185	3.4353E-04	1.935	8.861	12.00	8.861	PASSIVE	0.000	-1.200	2.065	
1.000	1.000	10.93	0.000	0.000	Ug5_2_8_L_0						
8 D	4.123	3.2752E-04	3.871	16.48	14.00	16.48	V-C	2.6477E+04	-1.400	4.129	
1.000	1.000	20.61	0.000	0.000	Ug5_2_8_L_0						
9 D	4.663	3.1166E-04	5.806	17.12	16.00	17.12	V-C	2.6477E+04	-1.600	6.194	
1.000	1.000	23.32	0.000	0.000	Ug5_2_8_L_0						
10 D	5.198	2.9600E-04	7.742	17.73	18.00	17.73	V-C	2.6477E+04	-1.800	8.258	
1.000	1.000	25.99	0.000	0.000	Ug5_2_8_L_0						
11 D	5.729	2.8059E-04	9.677	18.32	20.00	18.32	V-C	2.6477E+04	-2.000	10.32	
1.000	1.000	28.64	0.000	0.000	Ug5_2_8_L_0						
12 D	6.259	2.6547E-04	11.61	18.91	22.00	18.91	V-C	2.6477E+04	-2.200	12.39	
1.000	1.000	31.30	0.000	0.000	Ug5_2_8_L_0						
13 D	6.789	2.5068E-04	13.55	19.49	24.00	19.49	V-C	2.6477E+04	-2.400	14.45	
1.000	1.000	33.95	0.000	0.000	Ug5_2_8_L_0						
14 D	7.320	2.3626E-04	15.48	20.08	26.00	20.08	V-C	2.6477E+04	-2.600	16.52	
1.000	1.000	36.60	0.000	0.000	Ug5_2_8_L_0						
15 D	7.852	2.2224E-04	17.42	20.68	28.00	20.68	V-C	2.6477E+04	-2.800	18.58	
1.000	1.000	39.26	0.000	0.000	Ug5_2_8_L_0						
16 D	8.386	2.0865E-04	19.35	21.28	30.00	21.28	V-C	2.6477E+04	-3.000	20.65	
1.000	1.000	41.93	0.000	0.000	Ug5_2_8_L_0						
17 D	8.922	1.9553E-04	21.29	21.90	32.00	21.90	V-C	2.6477E+04	-3.200	22.71	
1.000	1.000	44.61	0.000	0.000	Ug5_2_8_L_0						
18 D	9.460	1.8289E-04	23.23	22.52	34.00	22.52	V-C	2.6477E+04	-3.400	24.77	
1.000	1.000	47.30	0.000	0.000	Ug5_2_8_L_0						
19 D	10.00	1.7078E-04	25.16	23.16	36.00	23.16	V-C	2.6477E+04	-3.600	26.84	
1.000	1.000	50.00	0.000	0.000	Ug5_2_8_L_0						
20 D	10.54	1.5920E-04	27.10	23.82	38.00	23.82	V-C	2.6477E+04	-3.800	28.90	
1.000	1.000	52.72	0.000	0.000	Ug5_2_8_L_0						
21 D	11.09	1.4817E-04	29.03	24.48	40.00	24.48	V-C	2.6477E+04	-4.000	30.97	
1.000	1.000	55.45	0.000	0.000	Ug5_2_8_L_0						
22 D	11.64	1.3772E-04	30.97	25.16	42.00	25.16	V-C	2.6477E+04	-4.200	33.03	
1.000	1.000	58.20	0.000	0.000	Ug5_2_8_L_0						
23 D	12.19	1.2785E-04	32.90	25.86	44.00	25.86	V-C	2.6477E+04	-4.400	35.10	
1.000	1.000	60.96	0.000	0.000	Ug5_2_8_L_0						
24 D	12.75	1.1857E-04	34.84	26.58	46.00	26.58	V-C	2.6477E+04	-4.600	37.16	
1.000	1.000	63.74	0.000	0.000	Ug5_2_8_L_0						
25 D	13.31	1.0989E-04	36.77	27.30	48.00	27.30	V-C	2.6477E+04	-4.800	39.23	
1.000	1.000	66.53	0.000	0.000	Ug5_2_8_L_0						
26 D	13.87	1.0181E-04	38.71	28.05	50.00	28.05	V-C	2.6477E+04	-5.000	41.29	
1.000	1.000	69.34	0.000	0.000	Ug5_2_8_L_0						
27 D	14.43	9.4321E-05	40.65	28.81	52.00	28.81	V-C	2.6477E+04	-5.200	43.35	
1.000	1.000	72.17	0.000	0.000	Ug5_2_8_L_0						
28 D	15.00	8.7425E-05	42.58	29.59	54.00	29.59	V-C	2.6477E+04	-5.400	45.42	
1.000	1.000	75.01	0.000	0.000	Ug5_2_8_L_0						
29 D	15.57	8.1108E-05	44.52	30.39	56.00	30.39	V-C	2.6477E+04	-5.600	47.48	
1.000	1.000	77.87	0.000	0.000	Ug5_2_8_L_0						
30 D	16.15	7.5355E-05	46.45	31.19	58.00	31.19	V-C	2.6477E+04	-5.800	49.55	
1.000	1.000	80.74	0.000	0.000	Ug5_2_8_L_0						
31 D	16.73	7.0145E-05	48.39	32.02	60.00	32.02	V-C	2.6477E+04	-6.000	51.61	
1.000	1.000	83.63	0.000	0.000	Ug5_2_8_L_0						
32 D	17.31	6.5456E-05	50.32	32.86	62.00	32.86	V-C	2.6477E+04	-6.200	53.68	
1.000	1.000	86.54	0.000	0.000	Ug5_2_8_L_0						
33 D	17.89	6.1263E-05	52.26	33.71	64.00	33.71	V-C	2.6477E+04	-6.400	55.74	

1.000	1.000	89.45	0.000	0.000	Ug5_2_8_L_0					
34 D	18.48	5.7539E-05	54.19	34.58	66.00	34.58	V-C	2.6477E+04	-6.600	57.81
1.000	1.000	92.38	0.000	0.000	Ug5_2_8_L_0					
35 D	19.07	5.4254E-05	56.13	35.46	68.00	35.46	V-C	2.6477E+04	-6.800	59.87
1.000	1.000	95.33	0.000	0.000	Ug5_2_8_L_0					
36 D	19.66	5.1381E-05	58.06	36.35	70.00	36.35	V-C	2.6477E+04	-7.000	61.94
1.000	1.000	98.28	0.000	0.000	Ug5_2_8_L_0					
37 D	20.25	4.8890E-05	60.00	37.25	72.00	37.25	V-C	2.6477E+04	-7.200	64.00
1.000	1.000	101.2	0.000	0.000	Ug5_2_8_L_0					
38 D	20.84	4.6753E-05	61.94	38.12	74.00	38.17	UL-RL	7.9432E+04	-7.400	66.06
1.000	1.000	104.2	0.000	0.000	Ug5_2_8_L_0					
39 D	21.42	4.4941E-05	63.87	38.97	76.00	39.13	UL-RL	7.9432E+04	-7.600	68.13
1.000	1.000	107.1	0.000	0.000	Ug5_2_8_L_0					
40 D	22.01	4.3427E-05	65.81	39.83	78.00	40.09	UL-RL	7.9432E+04	-7.800	70.19
1.000	1.000	110.0	0.000	0.000	Ug5_2_8_L_0					
41 D	22.60	4.2185E-05	67.74	40.72	80.00	41.05	UL-RL	7.9432E+04	-8.000	72.26
1.000	1.000	113.0	0.000	0.000	Ug5_2_8_L_0					
42 D	23.19	4.1190E-05	69.68	41.63	82.00	42.02	UL-RL	7.9432E+04	-8.200	74.32
1.000	1.000	115.9	0.000	0.000	Ug5_2_8_L_0					
43 D	23.79	4.0418E-05	71.61	42.55	84.00	42.98	UL-RL	7.9432E+04	-8.400	76.39
1.000	1.000	118.9	0.000	0.000	Ug5_2_8_L_0					
44 D	24.39	3.9848E-05	73.55	43.49	86.00	43.95	UL-RL	7.9432E+04	-8.600	78.45
1.000	1.000	121.9	0.000	0.000	Ug5_2_8_L_0					
45 D	24.99	3.9460E-05	75.48	44.44	88.00	44.91	UL-RL	7.9432E+04	-8.800	80.52
1.000	1.000	125.0	0.000	0.000	Ug5_2_8_L_0					
46 D	25.60	3.9237E-05	77.42	45.40	90.00	45.88	UL-RL	7.9432E+04	-9.000	82.58
1.000	1.000	128.0	0.000	0.000	Ug5_2_8_L_0					
47 D	26.20	3.9160E-05	79.35	46.37	92.00	46.85	UL-RL	7.9432E+04	-9.200	84.65
1.000	1.000	131.0	0.000	0.000	Ug5_2_8_L_0					
48 D	26.81	3.9216E-05	81.29	47.35	94.00	47.83	UL-RL	7.9432E+04	-9.400	86.71
1.000	1.000	134.1	0.000	0.000	Ug5_2_8_L_0					
49 D	27.42	3.9391E-05	83.23	48.34	96.00	48.80	UL-RL	7.9432E+04	-9.600	88.77
1.000	1.000	137.1	0.000	0.000	Ug5_2_8_L_0					
50 D	28.04	3.9674E-05	85.16	49.34	98.00	49.78	UL-RL	7.9432E+04	-9.800	90.84
1.000	1.000	140.2	0.000	0.000	Ug5_2_8_L_0					
51 D	28.65	4.0054E-05	87.10	50.34	100.00	50.75	UL-RL	7.9432E+04	-10.000	92.90
1.000	1.000	143.2	0.000	0.000	Ug5_2_8_L_0					
52 D	29.26	4.0521E-05	89.03	51.34	102.0	51.74	UL-RL	7.9432E+04	-10.200	94.97
1.000	1.000	146.3	0.000	0.000	Ug5_2_8_L_0					
53 D	29.88	4.1068E-05	90.97	52.35	104.0	52.72	UL-RL	7.9432E+04	-10.400	97.03
1.000	1.000	149.4	0.000	0.000	Ug5_2_8_L_0					
54 D	30.49	4.1686E-05	92.90	53.36	106.0	53.70	UL-RL	7.9432E+04	-10.600	99.10
1.000	1.000	152.5	0.000	0.000	Ug5_2_8_L_0					
55 D	31.11	4.2368E-05	94.84	54.38	108.0	54.69	UL-RL	7.9432E+04	-10.800	101.2
1.000	1.000	155.5	0.000	0.000	Ug5_2_8_L_0					
56 D	31.72	4.3108E-05	96.77	55.39	110.0	55.68	UL-RL	7.9432E+04	-11.000	103.2
1.000	1.000	158.6	0.000	0.000	Ug5_2_8_L_0					
57 D	32.34	4.3898E-05	98.71	56.41	112.0	56.67	UL-RL	7.9432E+04	-11.200	105.3
1.000	1.000	161.7	0.000	0.000	Ug5_2_8_L_0					
58 D	32.96	4.4731E-05	100.6	57.43	114.0	57.66	UL-RL	7.9432E+04	-11.400	107.4
1.000	1.000	164.8	0.000	0.000	Ug5_2_8_L_0					
59 D	33.57	4.5601E-05	102.6	58.45	116.0	58.65	UL-RL	7.9432E+04	-11.600	109.4
1.000	1.000	167.9	0.000	0.000	Ug5_2_8_L_0					
60 D	34.19	4.6497E-05	104.5	59.47	118.0	59.65	UL-RL	7.9432E+04	-11.800	111.5
1.000	1.000	171.0	0.000	0.000	Ug5_2_8_L_0					
61 D	34.81	4.7413E-05	106.5	60.49	120.0	60.65	UL-RL	7.9432E+04	-12.000	113.5
1.000	1.000	174.0	0.000	0.000	Ug5_2_8_L_0					
62 D	35.26	4.8335E-05	108.2	60.67	121.8	61.39	UL-RL	5.7643E+04	-12.200	115.6
1.000	1.000	176.3	0.000	0.000	Ug6_741_743_L_0					
63 D	35.85	4.9255E-05	109.9	61.60	123.6	62.28	UL-RL	5.7643E+04	-12.400	117.7
1.000	1.000	179.3	0.000	0.000	Ug6_741_743_L_0					
64 D	36.45	5.0160E-05	111.7	62.52	125.4	63.16	UL-RL	5.7643E+04	-12.600	119.7
1.000	1.000	182.3	0.000	0.000	Ug6_741_743_L_0					
65 D	37.05	5.1045E-05	113.4	63.44	127.2	64.05	UL-RL	5.7643E+04	-12.800	121.8
1.000	1.000	185.2	0.000	0.000	Ug6_741_743_L_0					
66 D	37.65	5.1904E-05	115.1	64.36	129.0	64.94	UL-RL	5.7643E+04	-13.000	123.9
1.000	1.000	188.2	0.000	0.000	Ug6_741_743_L_0					
67 D	38.24	5.2733E-05	116.9	65.28	130.8	65.83	UL-RL	5.7643E+04	-13.200	125.9
1.000	1.000	191.2	0.000	0.000	Ug6_741_743_L_0					
68 D	38.84	5.3529E-05	118.6	66.20	132.6	66.72	UL-RL	5.7643E+04	-13.400	128.0
1.000	1.000	194.2	0.000	0.000	Ug6_741_743_L_0					
69 D	39.44	5.4294E-05	120.3	67.12	134.4	67.60	UL-RL	5.7643E+04	-13.600	130.1
1.000	1.000	197.2	0.000	0.000	Ug6_741_743_L_0					
70 D	40.03	5.5026E-05	122.1	68.04	136.2	68.49	UL-RL	5.7643E+04	-13.800	132.1
1.000	1.000	200.2	0.000	0.000	Ug6_741_743_L_0					
71 D	40.63	5.5728E-05	123.8	68.95	138.0	69.38	UL-RL	5.7643E+04	-14.000	134.2
1.000	1.000	203.1	0.000	0.000	Ug6_741_743_L_0					
72 D	41.22	5.6401E-05	125.5	69.86	139.8	70.27	UL-RL	5.7643E+04	-14.200	136.3
1.000	1.000	206.1	0.000	0.000	Ug6_741_743_L_0					
73 D	41.82	5.7050E-05	127.3	70.78	141.6	71.16	UL-RL	5.7643E+04	-14.400	138.3
1.000	1.000	209.1	0.000	0.000	Ug6_741_743_L_0					
74 D	42.41	5.7677E-05	129.0	71.69	143.4	72.05	UL-RL	5.7643E+04	-14.600	140.4
1.000	1.000	212.1	0.000	0.000	Ug6_741_743_L_0					
75 D	43.01	5.8285E-05	130.7	72.60	145.2	72.94	UL-RL	5.7643E+04	-14.800	142.5
1.000	1.000	215.0	0.000	0.000	Ug6_741_743_L_0					
76 D	43.60	5.8880E-05	132.5	73.51	147.0	73.84	UL-RL	5.7643E+04	-15.000	144.5
1.000	1.000	218.0	0.000	0.000	Ug6_741_743_L_0					
77 D	44.20	5.9463E-05	134.2	74.42	148.8	74.73	UL-RL	5.7643E+04	-15.200	146.6
1.000	1.000	221.0	0.000	0.000	Ug6_741_743_L_0					
78 D	44.79	6.0039E-05	136.0	75.32	150.6	75.62	UL-RL	5.7643E+04	-15.400	148.6
1.000	1.000	224.0	0.000	0.000	Ug6_741_743_L_0					

79 D	45.39	6.0611E-05	137.7	76.23	152.4	76.51	UL-RL	5.7643E+04	-15.60	150.7
1.000	1.000	226.9	0.000	0.000	Ug6_741_743_L_0					
80 D	45.98	6.1181E-05	139.4	77.14	154.2	77.40	UL-RL	5.7643E+04	-15.80	152.8
1.000	1.000	229.9	0.000	0.000	Ug6_741_743_L_0					
81 D	23.29	6.1750E-05	141.2	78.05	156.0	78.29	UL-RL	5.7643E+04	-16.00	154.8
1.000	1.000	232.9	0.000	0.000	Ug6_741_743_L_0					

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017* |
|                                                                                               |
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|                               NewProject.BaseDesignSection_28.SISMICAGEO_1847                    |
|                               Exe Time :24 May 2018        18:25:50                            |
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New Project

STRESS RESULTS FOR GROUP NO. 3

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WallElement_33 :
ELEMENT TYPE 2 NO.OF ELEMENTS. IN THIS GROUP 80
CURRENT TIME IS 2.0000

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WALL2D ELEMENT

EL	TA	TB	MA	MB
1	6.80000E-12	-6.80000E-12	6.90781E-13	6.99461E-13
2	0.51933	-0.51933	-3.29605E-12	0.10387
3	1.5606	-1.5606	-0.10387	0.41598
4	3.1271	-3.1271	-0.41598	1.0414
5	5.2213	-5.2213	-1.0414	2.0857
6	7.8443	-7.8443	-2.0857	3.6545
7	8.8111	-8.8111	-3.6545	5.4167
8	8.3759	-8.3759	-5.4167	7.0919
9	7.9382	-7.9382	-7.0919	8.6796
10	7.4906	-7.4906	-8.6796	10.178
11	7.0445	-7.0445	-10.178	11.587
12	6.5989	-6.5989	-11.587	12.906
13	6.1446	-6.1446	-12.906	14.135
14	5.6877	-5.6877	-14.135	15.273
15	5.2258	-5.2258	-15.273	16.318
16	4.7560	-4.7560	-16.318	17.269
17	4.2700	-4.2700	-17.269	18.123
18	3.7707	-3.7707	-18.123	18.877
19	3.2549	-3.2549	-18.877	19.528
20	2.7147	-2.7147	-19.528	20.071
21	2.1516	-2.1516	-20.071	20.502
22	1.5623	-1.5623	-20.502	20.814
23	0.93921	-0.93921	-20.814	21.002
24	0.28311	-0.28311	-21.002	21.059
25	-0.40951	0.40951	-21.059	20.977
26	-1.1421	1.1421	-20.977	20.748
27	-1.9218	1.9218	-20.748	20.364
28	-2.7483	2.7483	-20.364	19.814
29	-3.4722	3.4722	-19.814	19.120
30	-4.0409	4.0409	-19.120	18.312
31	-4.4708	4.4708	-18.312	17.417
32	-4.7778	4.7778	-17.417	16.462
33	-4.9766	4.9766	-16.462	15.467
34	-5.0815	5.0815	-15.467	14.450
35	-5.1057	5.1057	-14.450	13.429
36	-5.0617	5.0617	-13.429	12.417
37	-4.9726	4.9726	-12.417	11.422
38	-4.8189	4.8189	-11.422	10.458
39	-4.6136	4.6136	-10.458	9.5357
40	-4.3685	4.3685	-9.5357	8.6620
41	-4.0944	4.0944	-8.6620	7.8431
42	-3.8011	3.8011	-7.8431	7.0829
43	-3.4975	3.4975	-7.0829	6.3834
44	-3.1912	3.1912	-6.3834	5.7452
45	-2.8895	2.8895	-5.7452	5.1673
46	-2.5985	2.5985	-5.1673	4.6476
47	-2.3238	2.3238	-4.6476	4.1828
48	-2.0704	2.0704	-4.1828	3.7687
49	-1.8425	1.8425	-3.7687	3.4002
50	-1.6440	1.6440	-3.4002	3.0714
51	-1.4783	1.4783	-3.0714	2.7758
52	-1.3484	1.3484	-2.7758	2.5061
53	-1.2570	1.2570	-2.5061	2.2547
54	-1.2062	1.2062	-2.2547	2.0135
55	-1.1981	1.1981	-2.0135	1.7738
56	-1.2344	1.2344	-1.7738	1.5270
57	-1.3166	1.3166	-1.5270	1.2636
58	-1.4459	1.4459	-1.2636	0.97444
59	-1.6233	1.6233	-0.97444	0.64979
60	-1.8493	1.8493	-0.64979	0.27992
61	-2.1244	2.1244	-0.27992	-0.14496
62	-1.6940	1.6940	0.14496	-0.48375
63	-1.3017	1.3017	0.48375	-0.74409
64	-0.94726	0.94726	0.74409	-0.93354
65	-0.63021	0.63021	0.93354	-1.0596
66	-0.34990	0.34990	1.0596	-1.1296
67	-0.10561	0.10561	1.1296	-1.1507
68	0.10342	-0.10342	1.1507	-1.1300
69	0.27799	-0.27799	1.1300	-1.0744

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70 0.41885 -0.41885 1.0744 -0.99063
71 0.52674 -0.52674 0.99063 -0.88528
72 0.60233 -0.60233 0.88528 -0.76482
73 0.64623 -0.64623 0.76482 -0.63557
74 0.65895 -0.65895 0.63557 -0.50378
75 0.64093 -0.64093 0.50378 -0.37560
76 0.59251 -0.59251 0.37560 -0.25710
77 0.51396 -0.51396 0.25710 -0.15430
78 0.40545 -0.40545 0.15430 -7.32132E-02
79 0.26710 -0.26710 7.32132E-02 -1.97927E-02
80 9.89586E-02 -9.89586E-02 1.97927E-02 1.53788E-12

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ITER 0 RNORM = 0.000 RMNORM= 0.000
RINORM=0.1053E+06 RIMNOR=0.1851E+05
RENORM= 391.3 REMNOR=0.2743E-21 RATIO =0.6095E-01 TOLER =0.1000E-03 NOT CONVERGED
RFMAX = 45.27 RMMAX = 21.06
RTSMAL=0.1000E-03 RMSMAL=0.1000E-03
RDT =0.1053E+06 RDR =0.1851E+05
RATIOT=0.6095E-01 RATIO= 0.000
MAX UN= 5.660 IEQ= 21 NODE 11 DOF 1 Y-DISPL.F
MIN UN=-.3441E-01 IEQ= 11 NODE 6 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

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ITER 2 RNORM = 0.000 RMNORM= 0.000
RINORM=0.1053E+06 RIMNOR=0.1851E+05
RENORM= 108.3 REMNOR=0.1863E-20 RATIO =0.3207E-01 TOLER =0.1000E-03 NOT CONVERGED
RFMAX = 45.27 RMMAX = 21.06
RTSMAL=0.1000E-03 RMSMAL=0.1000E-03
RDT =0.1053E+06 RDR =0.1851E+05
RATIOT=0.3207E-01 RATIO= 0.000
MAX UN= 2.783 IEQ= 25 NODE 13 DOF 1 Y-DISPL.F
MIN UN=-.2491E-02 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=0.1053E+06 RIMNOR=0.1851E+05
RENORM= 38.56 REMNOR=0.5193E-19 RATIO =0.1913E-01 TOLER =0.1000E-03 NOT CONVERGED
RFMAX = 45.27 RMMAX = 21.06
RTSMAL=0.1000E-03 RMSMAL=0.1000E-03
RDT =0.1053E+06 RDR =0.1851E+05
RATIOT=0.1913E-01 RATIO= 0.000
MAX UN= 3.602 IEQ= 27 NODE 14 DOF 1 Y-DISPL.F
MIN UN=-.8550E-09 IEQ= 33 NODE 17 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

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ITER 4 RNORM = 0.000 RMNORM= 0.000
RINORM=0.1053E+06 RIMNOR=0.1851E+05
RENORM=0.6530 REMNOR=0.3297E-19 RATIO =0.2490E-02 TOLER =0.1000E-03 NOT CONVERGED
RFMAX = 45.27 RMMAX = 21.06
RTSMAL=0.1000E-03 RMSMAL=0.1000E-03
RDT =0.1053E+06 RDR =0.1851E+05
RATIOT=0.2490E-02 RATIO= 0.000
MAX UN=0.6611 IEQ= 31 NODE 16 DOF 1 Y-DISPL.F
MIN UN=-.7381E-09 IEQ= 19 NODE 10 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

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ITER 5 RNORM = 0.000 RMNORM= 0.000
RINORM=0.1053E+06 RIMNOR=0.1851E+05
RENORM=0.4631E-17 REMNOR=0.2445E-19 RATIO =0.6631E-11 TOLER =0.1000E-03 CONVERGED !
RFMAX = 45.27 RMMAX = 21.06
RTSMAL=0.1000E-03 RMSMAL=0.1000E-03
RDT =0.1053E+06 RDR =0.1851E+05
RATIOT=0.6631E-11 RATIO= 0.000
MAX UN=0.1031E-08 IEQ= 15 NODE 8 DOF 1 Y-DISPL.F
MIN UN=-.1131E-08 IEQ= 13 NODE 7 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
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|          NewProject.BaseDesignSection_28.SISMICAGEO_1847  |
|          Exe Time :24 May 2018          18:25:50  |
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New Project  
SOLUTION REACHED USING 5 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	2.6620503E-03	-4.0937891E-04
2	2.5801746E-03	-4.0937891E-04
3	2.4982993E-03	-4.0937165E-04
4	2.4164278E-03	-4.0933532E-04
5	2.3345695E-03	-4.0923346E-04
6	2.2527422E-03	-4.0901490E-04
7	2.1709757E-03	-4.0861369E-04
8	2.0893143E-03	-4.0794909E-04
9	2.0078200E-03	-4.0692549E-04
10	1.9265754E-03	-4.0543224E-04
11	1.8456868E-03	-4.0334386E-04
12	1.7652869E-03	-4.0052006E-04
13	1.6855361E-03	-3.9683609E-04
14	1.6066151E-03	-3.9221330E-04
15	1.5287155E-03	-3.8661917E-04
16	1.4520313E-03	-3.8006723E-04
17	1.3767482E-03	-3.7261706E-04
18	1.3030379E-03	-3.6435873E-04
19	1.2310523E-03	-3.5538646E-04
20	1.1609251E-03	-3.4578840E-04
21	1.0927735E-03	-3.3564696E-04
22	1.0266977E-03	-3.2503882E-04
23	9.6278429E-04	-3.1403544E-04
24	9.0110548E-04	-3.0270316E-04
25	8.4172085E-04	-2.9110356E-04
26	7.8467808E-04	-2.7929367E-04
27	7.3001415E-04	-2.6732634E-04
28	6.7775506E-04	-2.5525037E-04
29	6.2791822E-04	-2.4311115E-04
30	5.8051202E-04	-2.3095069E-04
31	5.3553675E-04	-2.1880806E-04
32	4.9298538E-04	-2.0671974E-04
33	4.5284319E-04	-1.9471967E-04
34	4.1508949E-04	-1.8283993E-04
35	3.7969717E-04	-1.7111085E-04
36	3.4663319E-04	-1.5956129E-04
37	3.1585899E-04	-1.4821904E-04
38	2.8733012E-04	-1.3711089E-04
39	2.6099726E-04	-1.2626329E-04
40	2.3680569E-04	-1.1570232E-04
41	2.1469548E-04	-1.0545413E-04
42	1.9460143E-04	-9.5545151E-05
43	1.7645301E-04	-8.6002331E-05
44	1.6017423E-04	-7.6853432E-05
45	1.4568352E-04	-6.8127301E-05
46	1.3289346E-04	-5.9850040E-05
47	1.2171230E-04	-5.2040828E-05
48	1.1204513E-04	-4.4711620E-05
49	1.0379526E-04	-3.7868291E-05
50	9.6865399E-05	-3.1511691E-05
51	9.1158427E-05	-2.5638011E-05
52	8.6578439E-05	-2.0239012E-05
53	8.3031981E-05	-1.5303380E-05
54	8.0427390E-05	-1.0815982E-05
55	7.8676773E-05	-6.7608168E-06
56	7.7695397E-05	-3.1206459E-06
57	7.7402019E-05	1.2208616E-07
58	7.7718885E-05	2.9846187E-06
59	7.8571609E-05	5.4832920E-06
60	7.9888940E-05	7.6330336E-06
61	8.1602431E-05	9.4469097E-06
62	8.3646034E-05	1.0935739E-05
63	8.5956726E-05	1.2124553E-05
64	8.8478473E-05	1.3052636E-05
65	9.1162857E-05	1.3756871E-05
66	9.3968590E-05	1.4271642E-05
67	9.6861004E-05	1.4628759E-05
68	9.9811529E-05	1.4857407E-05
69	1.0279717E-04	1.4984110E-05
70	1.0579997E-04	1.5032712E-05
71	1.0880646E-04	1.5024366E-05
72	1.1180715E-04	1.4977535E-05
73	1.1479596E-04	1.4907996E-05

74	1.1776970E-04	1.4828846E-05
75	1.2072755E-04	1.4750519E-05
76	1.2367049E-04	1.4680791E-05
77	1.2660078E-04	1.4624795E-05
78	1.2952149E-04	1.4585031E-05
79	1.3243587E-04	1.4561370E-05
80	1.3534692E-04	1.4551062E-05
81	1.3825697E-04	1.4548739E-05

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|                                                                                               |
|          NewProject.BaseDesignSection_28.SISMICAGEO_1847  |
|          Exe Time :24 May 2018          18:25:50  |
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New Project

STRESS RESULTS FOR GROUP NO. 1

0\_L  
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 81  
CURRENT TIME IS 3.0000

HARDENING 2D SOIL ELEMENT

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

EL * FACTOR	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
1 D	0.000	-2.6621E-03	0.000	0.000	0.000	0.000	ACTIVE	0.000	0.000	0.000	
1.000	1.000	0.000	0.000	0.000	Ug5_2_8_L_0						
2 D	0.5100	-2.5802E-03	2.141	0.6831	2.141	1.603	ACTIVE	0.000	-0.2000	1.867	
1.000	1.000	2.550	0.000	0.000	Ug5_2_8_L_0						
3 D	1.023	-2.4983E-03	4.323	1.379	4.323	3.119	ACTIVE	0.000	-0.4000	3.733	
1.000	1.000	5.113	0.000	0.000	Ug5_2_8_L_0						
4 D	1.538	-2.4164E-03	6.558	2.092	6.558	4.509	ACTIVE	0.000	-0.6000	5.600	
1.000	1.000	7.692	0.000	0.000	Ug5_2_8_L_0						
5 D	2.057	-2.3346E-03	8.831	2.817	8.831	5.780	ACTIVE	0.000	-0.8000	7.467	
1.000	1.000	10.28	0.000	0.000	Ug5_2_8_L_0						
6 D	2.576	-2.2527E-03	11.12	3.547	11.12	6.958	ACTIVE	0.000	-1.000	9.333	
1.000	1.000	12.88	0.000	0.000	Ug5_2_8_L_0						
7 D	3.096	-2.1710E-03	13.41	4.278	13.41	8.073	ACTIVE	0.000	-1.200	11.20	
1.000	1.000	15.48	0.000	0.000	Ug5_2_8_L_0						
8 D	3.622	-2.0893E-03	15.81	5.043	15.81	9.145	ACTIVE	0.000	-1.400	13.07	
1.000	1.000	18.11	0.000	0.000	Ug5_2_8_L_0						
9 D	4.151	-2.0078E-03	18.24	5.819	18.24	10.19	ACTIVE	0.000	-1.600	14.93	
1.000	1.000	20.75	0.000	0.000	Ug5_2_8_L_0						
10 D	4.666	-1.9266E-03	20.46	6.528	20.46	11.22	ACTIVE	0.000	-1.800	16.80	
1.000	1.000	23.33	0.000	0.000	Ug5_2_8_L_0						
11 D	5.189	-1.8457E-03	22.82	7.279	22.82	12.23	ACTIVE	0.000	-2.000	18.67	
1.000	1.000	25.95	0.000	0.000	Ug5_2_8_L_0						
12 D	5.710	-1.7653E-03	25.14	8.019	25.14	13.24	ACTIVE	0.000	-2.200	20.53	
1.000	1.000	28.55	0.000	0.000	Ug5_2_8_L_0						
13 D	6.222	-1.6855E-03	27.31	8.712	27.31	14.24	ACTIVE	0.000	-2.400	22.40	
1.000	1.000	31.11	0.000	0.000	Ug5_2_8_L_0						
14 D	6.741	-1.6066E-03	29.59	9.439	29.59	15.24	ACTIVE	0.000	-2.600	24.27	
1.000	1.000	33.71	0.000	0.000	Ug5_2_8_L_0						
15 D	7.259	-1.5287E-03	31.85	10.16	31.85	16.23	ACTIVE	0.000	-2.800	26.13	
1.000	1.000	36.29	0.000	0.000	Ug5_2_8_L_0						
16 D	7.775	-1.4520E-03	34.10	10.88	34.10	17.23	ACTIVE	0.000	-3.000	28.00	
1.000	1.000	38.88	0.000	0.000	Ug5_2_8_L_0						
17 D	8.285	-1.3767E-03	36.24	11.56	36.24	18.22	ACTIVE	0.000	-3.200	29.87	
1.000	1.000	41.43	0.000	0.000	Ug5_2_8_L_0						
18 D	8.801	-1.3030E-03	38.47	12.27	38.47	19.21	ACTIVE	0.000	-3.400	31.73	
1.000	1.000	44.00	0.000	0.000	Ug5_2_8_L_0						
19 D	9.316	-1.2311E-03	40.69	12.98	40.69	20.21	ACTIVE	0.000	-3.600	33.60	
1.000	1.000	46.58	0.000	0.000	Ug5_2_8_L_0						
20 D	9.825	-1.1609E-03	42.82	13.66	42.82	21.20	ACTIVE	0.000	-3.800	35.47	
1.000	1.000	49.13	0.000	0.000	Ug5_2_8_L_0						
21 D	10.34	-1.0928E-03	45.03	14.36	45.03	22.19	ACTIVE	0.000	-4.000	37.33	
1.000	1.000	51.70	0.000	0.000	Ug5_2_8_L_0						
22 D	10.85	-1.0267E-03	47.23	15.07	47.23	23.18	ACTIVE	0.000	-4.200	39.20	
1.000	1.000	54.27	0.000	0.000	Ug5_2_8_L_0						
23 D	11.36	-9.6278E-04	49.36	15.75	49.36	24.18	ACTIVE	0.000	-4.400	41.07	
1.000	1.000	56.81	0.000	0.000	Ug5_2_8_L_0						
24 D	11.88	-9.0111E-04	51.55	16.44	51.55	25.17	ACTIVE	0.000	-4.600	42.93	
1.000	1.000	59.38	0.000	0.000	Ug5_2_8_L_0						
25 D	12.39	-8.4172E-04	53.74	17.14	53.74	26.17	ACTIVE	0.000	-4.800	44.80	
1.000	1.000	61.94	0.000	0.000	Ug5_2_8_L_0						
26 D	12.90	-7.8468E-04	55.92	17.84	55.92	27.16	ACTIVE	0.000	-5.000	46.67	
1.000	1.000	64.51	0.000	0.000	Ug5_2_8_L_0						
27 D	13.41	-7.3001E-04	58.05	18.52	58.05	28.16	ACTIVE	0.000	-5.200	48.53	
1.000	1.000	67.05	0.000	0.000	Ug5_2_8_L_0						
28 D	13.92	-6.7776E-04	60.23	19.21	60.23	29.16	ACTIVE	0.000	-5.400	50.40	
1.000	1.000	69.61	0.000	0.000	Ug5_2_8_L_0						
29 D	14.43	-6.2792E-04	62.40	19.91	62.40	30.15	ACTIVE	0.000	-5.600	52.27	
1.000	1.000	72.17	0.000	0.000	Ug5_2_8_L_0						
30 D	14.94	-5.8051E-04	64.53	20.58	64.53	31.15	ACTIVE	0.000	-5.800	54.13	
1.000	1.000	74.72	0.000	0.000	Ug5_2_8_L_0						
31 D	15.46	-5.3554E-04	66.70	21.28	66.70	32.15	ACTIVE	0.000	-6.000	56.00	
1.000	1.000	77.28	0.000	0.000	Ug5_2_8_L_0						
32 D	15.97	-4.9299E-04	68.87	21.97	68.87	33.15	ACTIVE	0.000	-6.200	57.87	
1.000	1.000	79.84	0.000	0.000	Ug5_2_8_L_0						
33 D	16.48	-4.5284E-04	70.99	22.65	70.99	34.15	ACTIVE	0.000	-6.400	59.73	



1.000	1.000	82.38	0.000	0.000	Ug5_2_8_L_0						
34 D	16.99	-4.1509E-04	73.16	23.34	73.16	35.15	ACTIVE	0.000	-6.600	61.60	
1.000	1.000	84.94	0.000	0.000	Ug5_2_8_L_0						
35 D	17.50	-3.7970E-04	75.32	24.03	75.32	36.15	ACTIVE	0.000	-6.800	63.47	
1.000	1.000	87.50	0.000	0.000	Ug5_2_8_L_0						
36 D	18.01	-3.4663E-04	77.49	24.72	77.49	37.16	ACTIVE	0.000	-7.000	65.33	
1.000	1.000	90.05	0.000	0.000	Ug5_2_8_L_0						
37 D	18.52	-3.1586E-04	79.61	25.40	79.61	38.16	ACTIVE	0.000	-7.200	67.20	
1.000	1.000	92.60	0.000	0.000	Ug5_2_8_L_0						
38 D	19.03	-2.8733E-04	81.77	26.09	81.77	39.16	ACTIVE	0.000	-7.400	69.07	
1.000	1.000	95.15	0.000	0.000	Ug5_2_8_L_0						
39 D	19.54	-2.6100E-04	83.93	26.77	83.93	40.17	ACTIVE	0.000	-7.600	70.93	
1.000	1.000	97.71	0.000	0.000	Ug5_2_8_L_0						
40 D	20.05	-2.3681E-04	86.05	27.45	86.05	41.17	ACTIVE	0.000	-7.800	72.80	
1.000	1.000	100.3	0.000	0.000	Ug5_2_8_L_0						
41 D	20.56	-2.1470E-04	88.21	28.14	88.21	42.18	ACTIVE	0.000	-8.000	74.67	
1.000	1.000	102.8	0.000	0.000	Ug5_2_8_L_0						
42 D	21.07	-1.9460E-04	90.37	28.83	90.37	43.19	ACTIVE	0.000	-8.200	76.53	
1.000	1.000	105.4	0.000	0.000	Ug5_2_8_L_0						
43 D	21.58	-1.7645E-04	92.49	29.50	92.49	44.19	ACTIVE	0.000	-8.400	78.40	
1.000	1.000	107.9	0.000	0.000	Ug5_2_8_L_0						
44 D	22.09	-1.6017E-04	94.65	30.19	94.65	45.20	ACTIVE	0.000	-8.600	80.27	
1.000	1.000	110.5	0.000	0.000	Ug5_2_8_L_0						
45 D	22.87	-1.4568E-04	96.80	32.24	96.80	46.21	UL-RL	9.9584E+04	-8.800	82.13	
1.000	1.000	114.4	0.000	0.000	Ug5_2_8_L_0						
46 D	23.71	-1.3289E-04	98.96	34.56	98.96	47.22	UL-RL	9.9584E+04	-9.000	84.00	
1.000	1.000	118.6	0.000	0.000	Ug5_2_8_L_0						
47 D	24.52	-1.2171E-04	101.1	36.72	101.1	48.23	UL-RL	9.9584E+04	-9.200	85.87	
1.000	1.000	122.6	0.000	0.000	Ug5_2_8_L_0						
48 D	25.29	-1.1205E-04	103.2	38.73	103.2	49.24	UL-RL	9.9584E+04	-9.400	87.73	
1.000	1.000	126.5	0.000	0.000	Ug5_2_8_L_0						
49 D	26.04	-1.0380E-04	105.4	40.59	105.4	50.26	UL-RL	9.9584E+04	-9.600	89.60	
1.000	1.000	130.2	0.000	0.000	Ug5_2_8_L_0						
50 D	26.76	-9.6865E-05	107.5	42.32	107.5	51.27	UL-RL	9.9584E+04	-9.800	91.47	
1.000	1.000	133.8	0.000	0.000	Ug5_2_8_L_0						
51 D	27.45	-9.1158E-05	109.7	43.93	109.7	52.28	UL-RL	9.9584E+04	-10.000	93.33	
1.000	1.000	137.3	0.000	0.000	Ug5_2_8_L_0						
52 D	28.12	-8.6578E-05	111.8	45.42	111.8	53.29	UL-RL	9.9584E+04	-10.200	95.20	
1.000	1.000	140.6	0.000	0.000	Ug5_2_8_L_0						
53 D	28.77	-8.3032E-05	113.9	46.81	113.9	54.31	UL-RL	9.9584E+04	-10.400	97.07	
1.000	1.000	143.9	0.000	0.000	Ug5_2_8_L_0						
54 D	29.41	-8.0427E-05	116.1	48.10	116.1	55.32	UL-RL	9.9584E+04	-10.600	98.93	
1.000	1.000	147.0	0.000	0.000	Ug5_2_8_L_0						
55 D	30.02	-7.8677E-05	118.2	49.31	118.2	56.34	UL-RL	9.9584E+04	-10.800	100.8	
1.000	1.000	150.1	0.000	0.000	Ug5_2_8_L_0						
56 D	30.62	-7.7695E-05	120.4	50.44	120.4	57.35	UL-RL	9.9584E+04	-11.000	102.7	
1.000	1.000	153.1	0.000	0.000	Ug5_2_8_L_0						
57 D	31.21	-7.7402E-05	122.5	51.50	122.5	58.37	UL-RL	9.9584E+04	-11.200	104.5	
1.000	1.000	156.0	0.000	0.000	Ug5_2_8_L_0						
58 D	31.78	-7.7719E-05	124.6	52.49	124.6	59.39	UL-RL	9.9584E+04	-11.400	106.4	
1.000	1.000	158.9	0.000	0.000	Ug5_2_8_L_0						
59 D	32.34	-7.8572E-05	126.8	53.44	126.8	60.40	UL-RL	9.9584E+04	-11.600	108.3	
1.000	1.000	161.7	0.000	0.000	Ug5_2_8_L_0						
60 D	32.89	-7.9889E-05	128.9	54.34	128.9	61.42	UL-RL	9.9584E+04	-11.800	110.1	
1.000	1.000	164.5	0.000	0.000	Ug5_2_8_L_0						
61 D	33.44	-8.1602E-05	131.1	55.20	131.1	62.44	UL-RL	9.9584E+04	-12.000	112.0	
1.000	1.000	167.2	0.000	0.000	Ug5_2_8_L_0						
62 D	34.92	-8.3646E-05	133.0	60.73	133.0	63.36	UL-RL	4.9402E+04	-12.200	113.9	
1.000	1.000	174.6	0.000	0.000	Ug6_741_743_L_0						
63 D	35.46	-8.5957E-05	135.0	61.55	135.0	64.28	UL-RL	4.9402E+04	-12.400	115.7	
1.000	1.000	177.3	0.000	0.000	Ug6_741_743_L_0						
64 D	35.99	-8.8478E-05	136.9	62.37	136.9	65.20	UL-RL	4.9402E+04	-12.600	117.6	
1.000	1.000	180.0	0.000	0.000	Ug6_741_743_L_0						
65 D	36.53	-9.1163E-05	138.8	63.18	138.8	66.12	UL-RL	4.9402E+04	-12.800	119.5	
1.000	1.000	182.6	0.000	0.000	Ug6_741_743_L_0						
66 D	37.06	-9.3969E-05	140.7	63.99	140.7	67.04	UL-RL	4.9402E+04	-13.000	121.3	
1.000	1.000	185.3	0.000	0.000	Ug6_741_743_L_0						
67 D	37.60	-9.6861E-05	142.6	64.79	142.6	67.96	UL-RL	4.9402E+04	-13.200	123.2	
1.000	1.000	188.0	0.000	0.000	Ug6_741_743_L_0						
68 D	38.13	-9.9812E-05	144.5	65.59	144.5	68.88	UL-RL	4.9402E+04	-13.400	125.1	
1.000	1.000	190.7	0.000	0.000	Ug6_741_743_L_0						
69 D	38.66	-1.0280E-04	146.4	66.39	146.4	69.80	UL-RL	4.9402E+04	-13.600	126.9	
1.000	1.000	193.3	0.000	0.000	Ug6_741_743_L_0						
70 D	39.20	-1.0580E-04	148.3	67.19	148.3	70.72	UL-RL	4.9402E+04	-13.800	128.8	
1.000	1.000	196.0	0.000	0.000	Ug6_741_743_L_0						
71 D	39.73	-1.0881E-04	150.2	67.99	150.2	71.64	UL-RL	4.9402E+04	-14.000	130.7	
1.000	1.000	198.7	0.000	0.000	Ug6_741_743_L_0						
72 D	40.26	-1.1181E-04	152.1	68.79	152.1	72.56	UL-RL	4.9402E+04	-14.200	132.5	
1.000	1.000	201.3	0.000	0.000	Ug6_741_743_L_0						
73 D	40.80	-1.1480E-04	154.0	69.59	154.0	73.49	UL-RL	4.9402E+04	-14.400	134.4	
1.000	1.000	204.0	0.000	0.000	Ug6_741_743_L_0						
74 D	41.33	-1.1777E-04	155.9	70.39	155.9	74.41	UL-RL	4.9402E+04	-14.600	136.3	
1.000	1.000	206.7	0.000	0.000	Ug6_741_743_L_0						
75 D	41.87	-1.2073E-04	157.8	71.19	157.8	75.33	UL-RL	4.9402E+04	-14.800	138.1	
1.000	1.000	209.3	0.000	0.000	Ug6_741_743_L_0						
76 D	42.40	-1.2367E-04	159.7	72.00	159.7	76.25	UL-RL	4.9402E+04	-15.000	140.0	
1.000	1.000	212.0	0.000	0.000	Ug6_741_743_L_0						
77 D	42.93	-1.2660E-04	161.7	72.80	161.7	77.18	UL-RL	4.9402E+04	-15.200	141.9	
1.000	1.000	214.7	0.000	0.000	Ug6_741_743_L_0						
78 D	43.47	-1.2952E-04	163.6	73.61	163.6	78.10	UL-RL	4.9402E+04	-15.400	143.7	
1.000	1.000	217.3	0.000	0.000	Ug6_741_743_L_0						

79 D	44.00	-1.3244E-04	165.5	74.42	165.5	79.03	UL-RL	4.9402E+04	-15.60	145.6
1.000	1.000	220.0	0.000	0.000	Ug6_741_743_L_0					
80 D	44.54	-1.3535E-04	167.4	75.23	167.4	79.95	UL-RL	4.9402E+04	-15.80	147.5
1.000	1.000	222.7	0.000	0.000	Ug6_741_743_L_0					
81 D	22.54	-1.3826E-04	169.3	76.04	169.3	80.88	UL-RL	4.9402E+04	-16.00	149.3
1.000	1.000	225.4	0.000	0.000	Ug6_741_743_L_0					

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|                PARATIEPLUS(TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION *Build date:Jul 11, 2017*                |
|                                                                                                                                            |
|                                                                                                                                            |
|                NewProject.BaseDesignSection_28.SISMICAGEO_1847                                                                            |
|                Exe Time :24 May 2018  18:25:50                                                                                              |
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New Project

STRESS RESULTS FOR GROUP NO. 2

0\_R :  
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 81  
CURRENT TIME IS 3.0000

HARDENING 2D SOIL ELEMENT

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

EL * FACTOR	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
1	0.000	--	--	--	--	--	REMOVED	--	0.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
2	0.000	--	--	--	--	--	REMOVED	--	-0.2000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
3	0.000	--	--	--	--	--	REMOVED	--	-0.4000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
4	0.000	--	--	--	--	--	REMOVED	--	-0.6000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
5	0.000	--	--	--	--	--	REMOVED	--	-0.8000	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	--	-1.200	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
8	0.000	--	--	--	--	--	REMOVED	--	-1.400	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
9	0.000	--	--	--	--	--	REMOVED	--	-1.600	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
10	0.000	--	--	--	--	--	REMOVED	--	-1.800	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
11 D	0.000	1.8457E-03	0.000	0.000	20.00	18.32	PASSIVE	0.000	-2.000	0.000	
1.000	1.000	0.000	0.000	0.000	Ug5_2_8_L_0						
12 D	2.136	1.7653E-03	1.867	8.546	22.00	18.91	PASSIVE	0.000	-2.200	2.133	
1.000	1.000	10.68	0.000	0.000	Ug5_2_8_L_0						
13 D	4.272	1.6855E-03	3.733	17.09	24.00	19.49	PASSIVE	0.000	-2.400	4.267	
1.000	1.000	21.36	0.000	0.000	Ug5_2_8_L_0						
14 D	6.407	1.6066E-03	5.600	25.64	26.00	25.64	PASSIVE	0.000	-2.600	6.400	
1.000	1.000	32.04	0.000	0.000	Ug5_2_8_L_0						
15 D	8.543	1.5287E-03	7.467	34.18	28.00	34.18	PASSIVE	0.000	-2.800	8.533	
1.000	1.000	42.72	0.000	0.000	Ug5_2_8_L_0						
16 D	10.68	1.4520E-03	9.333	42.73	30.00	42.73	PASSIVE	0.000	-3.000	10.67	
1.000	1.000	53.39	0.000	0.000	Ug5_2_8_L_0						
17 D	11.70	1.3767E-03	11.20	45.72	32.00	45.72	V-C	2.1182E+04	-3.200	12.80	
1.000	1.000	58.52	0.000	0.000	Ug5_2_8_L_0						
18 D	12.00	1.3030E-03	13.07	45.08	34.00	45.08	V-C	2.1182E+04	-3.400	14.93	
1.000	1.000	60.01	0.000	0.000	Ug5_2_8_L_0						
19 D	12.31	1.2311E-03	14.93	44.47	36.00	44.47	V-C	2.1182E+04	-3.600	17.07	
1.000	1.000	61.54	0.000	0.000	Ug5_2_8_L_0						
20 D	12.62	1.1609E-03	16.80	43.90	38.00	43.90	V-C	2.1182E+04	-3.800	19.20	
1.000	1.000	63.10	0.000	0.000	Ug5_2_8_L_0						
21 D	12.94	1.0928E-03	18.67	43.37	40.00	43.37	V-C	2.1182E+04	-4.000	21.33	
1.000	1.000	64.70	0.000	0.000	Ug5_2_8_L_0						
22 D	13.27	1.0267E-03	20.53	42.88	42.00	42.88	V-C	2.1182E+04	-4.200	23.47	
1.000	1.000	66.35	0.000	0.000	Ug5_2_8_L_0						
23 D	13.61	9.6278E-04	22.40	42.44	44.00	42.44	V-C	2.1182E+04	-4.400	25.60	
1.000	1.000	68.04	0.000	0.000	Ug5_2_8_L_0						
24 D	13.96	9.0111E-04	24.27	42.05	46.00	42.05	V-C	2.1182E+04	-4.600	27.73	
1.000	1.000	69.78	0.000	0.000	Ug5_2_8_L_0						
25 D	14.31	8.4172E-04	26.13	41.71	48.00	41.71	V-C	2.1182E+04	-4.800	29.87	
1.000	1.000	71.57	0.000	0.000	Ug5_2_8_L_0						
26 D	14.68	7.8468E-04	28.00	41.42	50.00	41.42	V-C	2.1182E+04	-5.000	32.00	
1.000	1.000	73.42	0.000	0.000	Ug5_2_8_L_0						
27 D	15.06	7.3001E-04	29.87	41.18	52.00	41.18	V-C	2.1182E+04	-5.200	34.13	
1.000	1.000	75.32	0.000	0.000	Ug5_2_8_L_0						
28 D	15.45	6.7776E-04	31.73	41.00	54.00	41.00	V-C	2.1182E+04	-5.400	36.27	
1.000	1.000	77.27	0.000	0.000	Ug5_2_8_L_0						
29 D	15.86	6.2792E-04	33.60	40.88	56.00	40.88	V-C	2.1182E+04	-5.600	38.40	
1.000	1.000	79.28	0.000	0.000	Ug5_2_8_L_0						
30 D	16.27	5.8051E-04	35.47	40.80	58.00	40.80	V-C	2.1182E+04	-5.800	40.53	
1.000	1.000	81.34	0.000	0.000	Ug5_2_8_L_0						
31 D	16.69	5.3554E-04	37.33	40.79	60.00	40.79	V-C	2.1182E+04	-6.000	42.67	
1.000	1.000	83.45	0.000	0.000	Ug5_2_8_L_0						
32 D	17.12	4.9299E-04	39.20	40.82	62.00	40.82	V-C	2.1182E+04	-6.200	44.80	
1.000	1.000	85.62	0.000	0.000	Ug5_2_8_L_0						
33 D	17.57	4.5284E-04	41.07	40.91	64.00	40.91	V-C	2.1182E+04	-6.400	46.93	

1.000	1.000	87.85	0.000	0.000	Ug5_2_8_L_0					
34 D	18.02	4.1509E-04	42.93	41.06	66.00	41.06	V-C	2.1182E+04	-6.600	49.07
1.000	1.000	90.12	0.000	0.000	Ug5_2_8_L_0					
35 D	18.49	3.7970E-04	44.80	41.25	68.00	41.25	V-C	2.1182E+04	-6.800	51.20
1.000	1.000	92.45	0.000	0.000	Ug5_2_8_L_0					
36 D	18.97	3.4663E-04	46.67	41.50	70.00	41.50	V-C	2.1182E+04	-7.000	53.33
1.000	1.000	94.83	0.000	0.000	Ug5_2_8_L_0					
37 D	19.45	3.1586E-04	48.53	41.80	72.00	41.80	V-C	2.1182E+04	-7.200	55.47
1.000	1.000	97.27	0.000	0.000	Ug5_2_8_L_0					
38 D	19.95	2.8733E-04	50.40	42.15	74.00	42.15	V-C	2.1182E+04	-7.400	57.60
1.000	1.000	99.75	0.000	0.000	Ug5_2_8_L_0					
39 D	20.46	2.6100E-04	52.27	42.55	76.00	42.55	V-C	2.1182E+04	-7.600	59.73
1.000	1.000	102.3	0.000	0.000	Ug5_2_8_L_0					
40 D	20.97	2.3681E-04	54.13	42.99	78.00	42.99	V-C	2.1182E+04	-7.800	61.87
1.000	1.000	104.9	0.000	0.000	Ug5_2_8_L_0					
41 D	21.50	2.1470E-04	56.00	43.48	80.00	43.48	V-C	2.1182E+04	-8.000	64.00
1.000	1.000	107.5	0.000	0.000	Ug5_2_8_L_0					
42 D	22.03	1.9460E-04	57.87	44.02	82.00	44.02	V-C	2.1182E+04	-8.200	66.13
1.000	1.000	110.2	0.000	0.000	Ug5_2_8_L_0					
43 D	22.57	1.7645E-04	59.73	44.60	84.00	44.60	V-C	2.1182E+04	-8.400	68.27
1.000	1.000	112.9	0.000	0.000	Ug5_2_8_L_0					
44 D	23.12	1.6017E-04	61.60	45.22	86.00	45.22	V-C	2.1182E+04	-8.600	70.40
1.000	1.000	115.6	0.000	0.000	Ug5_2_8_L_0					
45 D	23.68	1.4568E-04	63.47	45.88	88.00	45.88	V-C	2.1182E+04	-8.800	72.53
1.000	1.000	118.4	0.000	0.000	Ug5_2_8_L_0					
46 D	24.25	1.3289E-04	65.33	46.57	90.00	46.57	V-C	2.1182E+04	-9.000	74.67
1.000	1.000	121.2	0.000	0.000	Ug5_2_8_L_0					
47 D	24.82	1.2171E-04	67.20	47.31	92.00	47.31	V-C	2.1182E+04	-9.200	76.80
1.000	1.000	124.1	0.000	0.000	Ug5_2_8_L_0					
48 D	25.40	1.1205E-04	69.07	48.07	94.00	48.07	V-C	2.1182E+04	-9.400	78.93
1.000	1.000	127.0	0.000	0.000	Ug5_2_8_L_0					
49 D	25.99	1.0380E-04	70.93	48.87	96.00	48.87	V-C	2.1182E+04	-9.600	81.07
1.000	1.000	129.9	0.000	0.000	Ug5_2_8_L_0					
50 D	26.55	9.6865E-05	72.80	49.53	98.00	49.78	UL-RL	6.3546E+04	-9.800	83.20
1.000	1.000	132.7	0.000	0.000	Ug5_2_8_L_0					
51 D	27.09	9.1158E-05	74.67	50.13	100.00	50.75	UL-RL	6.3546E+04	-10.000	85.33
1.000	1.000	135.5	0.000	0.000	Ug5_2_8_L_0					
52 D	27.65	8.6578E-05	76.53	50.80	102.0	51.74	UL-RL	6.3546E+04	-10.200	87.47
1.000	1.000	138.3	0.000	0.000	Ug5_2_8_L_0					
53 D	28.23	8.3032E-05	78.40	51.53	104.0	52.72	UL-RL	6.3546E+04	-10.400	89.60
1.000	1.000	141.1	0.000	0.000	Ug5_2_8_L_0					
54 D	28.81	8.0427E-05	80.27	52.33	106.0	53.70	UL-RL	6.3546E+04	-10.600	91.73
1.000	1.000	144.1	0.000	0.000	Ug5_2_8_L_0					
55 D	29.40	7.8677E-05	82.13	53.16	108.0	54.70	UL-RL	6.3546E+04	-10.800	93.87
1.000	1.000	147.0	0.000	0.000	Ug5_2_8_L_0					
56 D	30.00	7.7695E-05	84.00	54.02	110.0	55.70	UL-RL	6.3546E+04	-11.000	96.00
1.000	1.000	150.0	0.000	0.000	Ug5_2_8_L_0					
57 D	30.61	7.7402E-05	85.87	54.92	112.0	56.71	UL-RL	6.3546E+04	-11.200	98.13
1.000	1.000	153.1	0.000	0.000	Ug5_2_8_L_0					
58 D	31.23	7.7719E-05	87.73	55.86	114.0	57.72	UL-RL	6.3546E+04	-11.400	100.3
1.000	1.000	156.1	0.000	0.000	Ug5_2_8_L_0					
59 D	31.85	7.8572E-05	89.60	56.83	116.0	58.73	UL-RL	6.3546E+04	-11.600	102.4
1.000	1.000	159.2	0.000	0.000	Ug5_2_8_L_0					
60 D	32.47	7.9889E-05	91.47	57.82	118.0	59.74	UL-RL	6.3546E+04	-11.800	104.5
1.000	1.000	162.4	0.000	0.000	Ug5_2_8_L_0					
61 D	33.10	8.1602E-05	93.33	58.84	120.0	60.76	UL-RL	6.3546E+04	-12.000	106.7
1.000	1.000	165.5	0.000	0.000	Ug5_2_8_L_0					
62 D	33.50	8.3646E-05	95.00	58.69	121.8	61.39	UL-RL	4.6114E+04	-12.200	108.8
1.000	1.000	167.5	0.000	0.000	Ug6_741_743_L_0					
63 D	34.12	8.5957E-05	96.67	59.66	123.6	62.28	UL-RL	4.6114E+04	-12.400	110.9
1.000	1.000	170.6	0.000	0.000	Ug6_741_743_L_0					
64 D	34.74	8.8478E-05	98.33	60.64	125.4	63.16	UL-RL	4.6114E+04	-12.600	113.1
1.000	1.000	173.7	0.000	0.000	Ug6_741_743_L_0					
65 D	35.37	9.1163E-05	100.00	61.63	127.2	64.05	UL-RL	4.6114E+04	-12.800	115.2
1.000	1.000	176.8	0.000	0.000	Ug6_741_743_L_0					
66 D	35.99	9.3969E-05	101.7	62.63	129.0	64.94	UL-RL	4.6114E+04	-13.000	117.3
1.000	1.000	180.0	0.000	0.000	Ug6_741_743_L_0					
67 D	36.62	9.6861E-05	103.3	63.63	130.8	65.83	UL-RL	4.6114E+04	-13.200	119.5
1.000	1.000	183.1	0.000	0.000	Ug6_741_743_L_0					
68 D	37.25	9.9812E-05	105.0	64.63	132.6	66.72	UL-RL	4.6114E+04	-13.400	121.6
1.000	1.000	186.2	0.000	0.000	Ug6_741_743_L_0					
69 D	37.87	1.0280E-04	106.7	65.64	134.4	67.60	UL-RL	4.6114E+04	-13.600	123.7
1.000	1.000	189.4	0.000	0.000	Ug6_741_743_L_0					
70 D	38.50	1.0580E-04	108.3	66.64	136.2	68.49	UL-RL	4.6114E+04	-13.800	125.9
1.000	1.000	192.5	0.000	0.000	Ug6_741_743_L_0					
71 D	39.13	1.0881E-04	110.0	67.65	138.0	69.38	UL-RL	4.6114E+04	-14.000	128.0
1.000	1.000	195.6	0.000	0.000	Ug6_741_743_L_0					
72 D	39.76	1.1181E-04	111.7	68.65	139.8	70.27	UL-RL	4.6114E+04	-14.200	130.1
1.000	1.000	198.8	0.000	0.000	Ug6_741_743_L_0					
73 D	40.38	1.1480E-04	113.3	69.65	141.6	71.16	UL-RL	4.6114E+04	-14.400	132.3
1.000	1.000	201.9	0.000	0.000	Ug6_741_743_L_0					
74 D	41.01	1.1777E-04	115.0	70.66	143.4	72.05	UL-RL	4.6114E+04	-14.600	134.4
1.000	1.000	205.1	0.000	0.000	Ug6_741_743_L_0					
75 D	41.64	1.2073E-04	116.7	71.66	145.2	72.94	UL-RL	4.6114E+04	-14.800	136.5
1.000	1.000	208.2	0.000	0.000	Ug6_741_743_L_0					
76 D	42.27	1.2367E-04	118.3	72.66	147.0	73.84	UL-RL	4.6114E+04	-15.000	138.7
1.000	1.000	211.3	0.000	0.000	Ug6_741_743_L_0					
77 D	42.89	1.2660E-04	120.0	73.66	148.8	74.73	UL-RL	4.6114E+04	-15.200	140.8
1.000	1.000	214.5	0.000	0.000	Ug6_741_743_L_0					
78 D	43.52	1.2952E-04	121.7	74.66	150.6	75.62	UL-RL	4.6114E+04	-15.400	142.9
1.000	1.000	217.6	0.000	0.000	Ug6_741_743_L_0					

79 D	44.15	1.3244E-04	123.3	75.67	152.4	76.51	UL-RL	4.6114E+04	-15.60	145.1
1.000	1.000	220.7	0.000	0.000	Ug6_741_743_L_0					
80 D	44.77	1.3535E-04	125.0	76.67	154.2	77.40	UL-RL	4.6114E+04	-15.80	147.2
1.000	1.000	223.9	0.000	0.000	Ug6_741_743_L_0					
81 D	22.70	1.3826E-04	126.7	77.67	156.0	78.29	UL-RL	4.6114E+04	-16.00	149.3
1.000	1.000	227.0	0.000	0.000	Ug6_741_743_L_0					

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
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New Project

STRESS RESULTS FOR GROUP NO. 3

WallElement\_33 :  
ELEMENT TYPE 2 NO.OF ELEMENTS. IN THIS GROUP 80  
CURRENT TIME IS 3.0000

WALL2D ELEMENT

EL	TA	TB	MA	MB
1	-3.99821E-11	3.99821E-11	-4.59210E-12	-1.29920E-10
2	0.50996	-0.50996	1.31407E-10	0.10199
3	1.5325	-1.5325	-0.10199	0.40848
4	3.0708	-3.0708	-0.40848	1.0227
5	5.1276	-5.1276	-1.0227	2.0482
6	7.7037	-7.7037	-2.0482	3.5889
7	10.799	-10.799	-3.5889	5.7488
8	14.421	-14.421	-5.7488	8.6330
9	18.572	-18.572	-8.6330	12.347
10	23.237	-23.237	-12.347	16.995
11	28.426	-28.426	-16.995	22.680
12	32.001	-32.001	-22.680	29.080
13	33.952	-33.952	-29.080	35.871
14	34.286	-34.286	-35.871	42.728
15	33.001	-33.001	-42.728	49.328
16	30.098	-30.098	-49.328	55.348
17	26.679	-26.679	-55.348	60.683
18	23.477	-23.477	-60.683	65.379
19	20.485	-20.485	-65.379	69.476
20	17.691	-17.691	-69.476	73.014
21	15.091	-15.091	-73.014	76.032
22	12.675	-12.675	-76.032	78.567
23	10.430	-10.430	-78.567	80.653
24	8.3495	-8.3495	-80.653	82.323
25	6.4234	-6.4234	-82.323	83.608
26	4.6408	-4.6408	-83.608	84.536
27	2.9875	-2.9875	-84.536	85.134
28	1.4561	-1.4561	-85.134	85.425
29	3.56493E-02	-3.56493E-02	-85.425	85.432
30	-1.2882	1.2882	-85.432	85.174
31	-2.5232	2.5232	-85.174	84.670
32	-3.6803	3.6803	-84.670	83.934
33	-4.7734	4.7734	-83.934	82.979
34	-5.8103	5.8103	-82.979	81.817
35	-6.8016	6.8016	-81.817	80.457
36	-7.7579	7.7579	-80.457	78.905
37	-8.6919	8.6919	-78.905	77.167
38	-9.6113	9.6113	-77.167	75.244
39	-10.526	10.526	-75.244	73.139
40	-11.447	11.447	-73.139	70.850
41	-12.382	12.382	-70.850	68.373
42	-13.341	13.341	-68.373	65.705
43	-14.333	14.333	-65.705	62.839
44	-15.364	15.364	-62.839	59.766
45	-16.172	16.172	-59.766	56.531
46	-16.708	16.708	-56.531	53.190
47	-17.012	17.012	-53.190	49.787
48	-17.121	17.121	-49.787	46.363
49	-17.070	17.070	-46.363	42.949
50	-16.858	16.858	-42.949	39.577
51	-16.498	16.498	-39.577	36.278
52	-16.027	16.027	-36.278	33.072
53	-15.480	15.480	-33.072	29.976
54	-14.885	14.885	-29.976	26.999
55	-14.268	14.268	-26.999	24.146
56	-13.652	13.652	-24.146	21.415
57	-13.057	13.057	-21.415	18.804
58	-12.504	12.504	-18.804	16.303
59	-12.009	12.009	-16.303	13.901
60	-11.586	11.586	-13.901	11.584
61	-11.249	11.249	-11.584	9.3343
62	-9.8276	9.8276	-9.3343	7.3688
63	-8.4889	8.4889	-7.3688	5.6710
64	-7.2366	7.2366	-5.6710	4.2237
65	-6.0735	6.0735	-4.2237	3.0090
66	-5.0019	5.0019	-3.0090	2.0086
67	-4.0232	4.0232	-2.0086	1.2039
68	-3.1385	3.1385	-1.2039	0.57625
69	-2.3482	2.3482	-0.57625	0.10661

70	-1.6524	1.6524	-0.10661	-0.22387
71	-1.0512	1.0512	0.22387	-0.43411
72	-0.54414	0.54414	0.43411	-0.54294
73	-0.13097	0.13097	0.54294	-0.56913
74	0.18874	-0.18874	0.56913	-0.53138
75	0.41539	-0.41539	0.53138	-0.44831
76	0.54935	-0.54935	0.44831	-0.33844
77	0.59092	-0.59092	0.33844	-0.22025
78	0.54033	-0.54033	0.22025	-0.11219
79	0.39773	-0.39773	0.11219	-3.26430E-02
80	0.16321	-0.16321	3.26430E-02	6.97220E-14

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ITER      0  RNORM = 0.000      RMNORM= 0.000
           RINORM=0.1259E+06  RIMNOR=0.3928E+06
           RENORM= 696.3      REMNOR=0.2445E-19  RATIO =0.7435E-01  TOLER =0.1000E-03  NOT CONVERGED
           RFMAX = 43.96      RMMAX = 85.43
           RTSMAL=0.1000E-03  RMSMAL=0.1000E-03
           RDT =0.1259E+06    RDR =0.3928E+06
           RATIOI=0.7435E-01  RATIOOR= 0.000
           MAX UN= 10.57      IEQ= 31 NODE      16 DOF   1  Y-DISPL.F
           MIN UN=-.7356E-01  IEQ= 21 NODE      11 DOF   1  Y-DISPL.F
           NO. OF CONTACT CONSTRAINT VIOLATIONS      0

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ITER      2  RNORM = 0.000      RMNORM= 0.000
           RINORM=0.1259E+06  RIMNOR=0.3928E+06
           RENORM= 215.8      REMNOR=0.3680E-19  RATIO =0.4139E-01  TOLER =0.1000E-03  NOT CONVERGED
           RFMAX = 43.96      RMMAX = 85.43
           RTSMAL=0.1000E-03  RMSMAL=0.1000E-03
           RDT =0.1259E+06    RDR =0.3928E+06
           RATIOI=0.4139E-01  RATIOOR= 0.000
           MAX UN= 3.643      IEQ= 41 NODE      21 DOF   1  Y-DISPL.F
           MIN UN=-.2663E-02  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=0.1259E+06  RIMNOR=0.3928E+06
           RENORM= 118.6      REMNOR=0.9473E-18  RATIO =0.3069E-01  TOLER =0.1000E-03  NOT CONVERGED
           RFMAX = 43.96      RMMAX = 85.43
           RTSMAL=0.1000E-03  RMSMAL=0.1000E-03
           RDT =0.1259E+06    RDR =0.3928E+06
           RATIOI=0.3069E-01  RATIOOR= 0.000
           MAX UN= 6.785      IEQ= 43 NODE      22 DOF   1  Y-DISPL.F
           MIN UN=-.6125E-01  IEQ= 137 NODE     69 DOF   1  Y-DISPL.F
           NO. OF CONTACT CONSTRAINT VIOLATIONS      0

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ITER      4  RNORM = 0.000      RMNORM= 0.000
           RINORM=0.1259E+06  RIMNOR=0.3928E+06
           RENORM= 1.008      REMNOR=0.3451E-18  RATIO =0.2829E-02  TOLER =0.1000E-03  NOT CONVERGED
           RFMAX = 43.96      RMMAX = 85.43
           RTSMAL=0.1000E-03  RMSMAL=0.1000E-03
           RDT =0.1259E+06    RDR =0.3928E+06
           RATIOI=0.2829E-02  RATIOOR= 0.000
           MAX UN=0.6806      IEQ= 109 NODE     55 DOF   1  Y-DISPL.F
           MIN UN=-.1894      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=0.1259E+06  RIMNOR=0.3928E+06
           RENORM=0.5159E-16  REMNOR=0.2914E-18  RATIO =0.2024E-10  TOLER =0.1000E-03  CONVERGED !
           RFMAX = 43.96      RMMAX = 85.43
           RTSMAL=0.1000E-03  RMSMAL=0.1000E-03
           RDT =0.1259E+06    RDR =0.3928E+06
           RATIOI=0.2024E-10  RATIOOR= 0.000
           MAX UN=0.3936E-08  IEQ= 9 NODE      5 DOF   1  Y-DISPL.F
           MIN UN=-.3615E-08  IEQ= 11 NODE     6 DOF   1  Y-DISPL.F
           NO. OF CONTACT CONSTRAINT VIOLATIONS      0

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|                PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
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New Project
SOLUTION REACHED USING      5 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   4   ( AT TIME   4.000   )

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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	9.7906890E-03	-1.2565031E-03	
2	9.5393884E-03	-1.2565031E-03	
3	9.2880882E-03	-1.2564960E-03	
4	9.0367919E-03	-1.2564604E-03	
5	8.7855084E-03	-1.2563605E-03	
6	8.5342553E-03	-1.2561462E-03	
7	8.2830618E-03	-1.2557529E-03	
8	8.0319714E-03	-1.2551012E-03	
9	7.7810448E-03	-1.2540976E-03	
10	7.5303630E-03	-1.2526335E-03	
11	7.2800303E-03	-1.2505857E-03	
12	7.0301768E-03	-1.2478168E-03	
13	6.7809618E-03	-1.2441746E-03	
14	6.5325763E-03	-1.2394925E-03	
15	6.2852462E-03	-1.2335896E-03	
16	6.0392349E-03	-1.2262703E-03	
17	5.7948452E-03	-1.2173249E-03	
18	5.5524251E-03	-1.2065588E-03	
19	5.3123531E-03	-1.1938224E-03	
20	5.0750345E-03	-1.1790111E-03	
21	4.8408921E-03	-1.1620654E-03	
22	4.6103528E-03	-1.1429705E-03	
23	4.3838452E-03	-1.1217568E-03	
24	4.1617863E-03	-1.0984998E-03	
25	3.9445735E-03	-1.0733198E-03	
26	3.7325755E-03	-1.0463823E-03	
27	3.5261248E-03	-1.0178970E-03	
28	3.3255061E-03	-9.8808728E-04	
29	3.1309642E-03	-9.5716221E-04	
30	2.9427026E-03	-9.2531630E-04	
31	2.7608870E-03	-8.9273040E-04	
32	2.5856494E-03	-8.5957248E-04	
33	2.4170867E-03	-8.2599752E-04	
34	2.2552686E-03	-7.9214925E-04	
35	2.1002364E-03	-7.5816007E-04	
36	1.9520059E-03	-7.2415184E-04	
37	1.8105702E-03	-6.9023677E-04	
38	1.6758988E-03	-6.5651733E-04	
39	1.5479439E-03	-6.2308799E-04	
40	1.4266385E-03	-5.9003513E-04	
41	1.3118995E-03	-5.5743785E-04	
42	1.2036282E-03	-5.2536864E-04	
43	1.1017124E-03	-4.9389393E-04	
44	1.0060269E-03	-4.6307476E-04	
45	9.1643545E-04	-4.3296747E-04	
46	8.3278947E-04	-4.0362371E-04	
47	7.5493184E-04	-3.7509183E-04	
48	6.8269561E-04	-3.4741694E-04	
49	6.1590510E-04	-3.2064151E-04	
50	5.5437664E-04	-2.9480601E-04	
51	4.9791778E-04	-2.6994895E-04	
52	4.4632809E-04	-2.4610747E-04	
53	3.9940547E-04	-2.2332079E-04	
54	3.5692959E-04	-2.0162267E-04	
55	3.1868130E-04	-1.8105108E-04	
56	2.8443157E-04	-1.6164336E-04	
57	2.5394381E-04	-1.4343774E-04	
58	2.2697397E-04	-1.2646959E-04	
59	2.0327170E-04	-1.1076567E-04	
60	1.8258232E-04	-9.6342532E-05	
61	1.6464890E-04	-8.3206203E-05	
62	1.4921432E-04	-7.1352626E-05	
63	1.3602484E-04	-6.0744172E-05	
64	1.2483817E-04	-5.1312867E-05	
65	1.1542590E-04	-4.2988383E-05	
66	1.0757383E-04	-3.5698760E-05	
67	1.0108227E-04	-2.9371105E-05	
68	9.5766122E-05	-2.3932453E-05	
69	9.1454845E-05	-1.9310412E-05	
70	8.7992284E-05	-1.5433468E-05	
71	8.5236478E-05	-1.2231222E-05	
72	8.3059428E-05	-9.6344809E-06	
73	8.1346846E-05	-7.5753393E-06	



74	7.9997884E-05	-5.9873248E-06
75	7.8924836E-05	-4.8055105E-06
76	7.8052819E-05	-3.9666039E-06
77	7.7319440E-05	-3.4090120E-06
78	7.6674450E-05	-3.0728884E-06
79	7.6079391E-05	-2.9001640E-06
80	7.5507242E-05	-2.8345658E-06
81	7.4942026E-05	-2.8216261E-06

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|                PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                |
|                NewProject.BaseDesignSection_28.SISMICAGEO_l847  |
|                Exe Time :24 May 2018  18:25:50  |
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New Project

STRESS RESULTS FOR GROUP NO. 1

0\_L  
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 81  
CURRENT TIME IS 4.0000

HARDENING 2D SOIL ELEMENT

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

EL * FACTOR	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
1 D	0.000	-9.7907E-03	0.000	0.000	0.000	0.000	ACTIVE	0.000	0.000	0.000	
1.000	1.000	0.000	0.000	0.000	Ug5_2_8_L_0						
2 D	0.4999	-9.5394E-03	2.215	0.7066	2.215	1.603	ACTIVE	0.000	-0.2000	1.793	
1.000	1.000	2.500	0.000	0.000	Ug5_2_8_L_0						
3 D	1.002	-9.2881E-03	4.471	1.426	4.471	3.119	ACTIVE	0.000	-0.4000	3.586	
1.000	1.000	5.012	0.000	0.000	Ug5_2_8_L_0						
4 D	1.508	-9.0368E-03	6.779	2.162	6.779	4.509	ACTIVE	0.000	-0.6000	5.379	
1.000	1.000	7.542	0.000	0.000	Ug5_2_8_L_0						
5 D	2.017	-8.7855E-03	9.125	2.911	9.125	5.780	ACTIVE	0.000	-0.8000	7.172	
1.000	1.000	10.08	0.000	0.000	Ug5_2_8_L_0						
6 D	2.526	-8.5343E-03	11.49	3.665	11.49	6.958	ACTIVE	0.000	-1.000	8.966	
1.000	1.000	12.63	0.000	0.000	Ug5_2_8_L_0						
7 D	3.035	-8.2831E-03	13.85	4.419	13.85	8.073	ACTIVE	0.000	-1.200	10.76	
1.000	1.000	15.18	0.000	0.000	Ug5_2_8_L_0						
8 D	3.552	-8.0320E-03	16.32	5.207	16.32	9.145	ACTIVE	0.000	-1.400	12.55	
1.000	1.000	17.76	0.000	0.000	Ug5_2_8_L_0						
9 D	4.070	-7.7810E-03	18.83	6.007	18.83	10.19	ACTIVE	0.000	-1.600	14.34	
1.000	1.000	20.35	0.000	0.000	Ug5_2_8_L_0						
10 D	4.575	-7.5304E-03	21.13	6.739	21.13	11.22	ACTIVE	0.000	-1.800	16.14	
1.000	1.000	22.88	0.000	0.000	Ug5_2_8_L_0						
11 D	5.089	-7.2800E-03	23.55	7.514	23.55	12.23	ACTIVE	0.000	-2.000	17.93	
1.000	1.000	25.44	0.000	0.000	Ug5_2_8_L_0						
12 D	5.600	-7.0302E-03	25.95	8.277	25.95	13.24	ACTIVE	0.000	-2.200	19.72	
1.000	1.000	28.00	0.000	0.000	Ug5_2_8_L_0						
13 D	6.102	-6.7810E-03	28.19	8.993	28.19	14.24	ACTIVE	0.000	-2.400	21.52	
1.000	1.000	30.51	0.000	0.000	Ug5_2_8_L_0						
14 D	6.611	-6.5326E-03	30.55	9.744	30.55	15.24	ACTIVE	0.000	-2.600	23.31	
1.000	1.000	33.05	0.000	0.000	Ug5_2_8_L_0						
15 D	7.118	-6.2852E-03	32.88	10.49	32.88	16.23	ACTIVE	0.000	-2.800	25.10	
1.000	1.000	35.59	0.000	0.000	Ug5_2_8_L_0						
16 D	7.625	-6.0392E-03	35.20	11.23	35.20	17.23	ACTIVE	0.000	-3.000	26.90	
1.000	1.000	38.13	0.000	0.000	Ug5_2_8_L_0						
17 D	8.125	-5.7948E-03	37.42	11.94	37.42	18.22	ACTIVE	0.000	-3.200	28.69	
1.000	1.000	40.63	0.000	0.000	Ug5_2_8_L_0						
18 D	8.631	-5.5524E-03	39.72	12.67	39.72	19.21	ACTIVE	0.000	-3.400	30.48	
1.000	1.000	43.15	0.000	0.000	Ug5_2_8_L_0						
19 D	9.136	-5.3124E-03	42.01	13.40	42.01	20.21	ACTIVE	0.000	-3.600	32.28	
1.000	1.000	45.68	0.000	0.000	Ug5_2_8_L_0						
20 D	9.635	-5.0750E-03	44.22	14.11	44.22	21.20	ACTIVE	0.000	-3.800	34.07	
1.000	1.000	48.17	0.000	0.000	Ug5_2_8_L_0						
21 D	10.14	-4.8409E-03	46.50	14.83	46.50	22.19	ACTIVE	0.000	-4.000	35.86	
1.000	1.000	50.70	0.000	0.000	Ug5_2_8_L_0						
22 D	10.64	-4.6104E-03	48.77	15.56	48.77	23.18	ACTIVE	0.000	-4.200	37.66	
1.000	1.000	53.21	0.000	0.000	Ug5_2_8_L_0						
23 D	11.14	-4.3838E-03	50.98	16.26	50.98	24.18	ACTIVE	0.000	-4.400	39.45	
1.000	1.000	55.71	0.000	0.000	Ug5_2_8_L_0						
24 D	11.65	-4.1618E-03	53.24	16.98	53.24	25.17	ACTIVE	0.000	-4.600	41.24	
1.000	1.000	58.23	0.000	0.000	Ug5_2_8_L_0						
25 D	12.15	-3.9446E-03	55.51	17.71	55.51	26.17	ACTIVE	0.000	-4.800	43.03	
1.000	1.000	60.74	0.000	0.000	Ug5_2_8_L_0						
26 D	12.65	-3.7326E-03	57.76	18.43	57.76	27.16	ACTIVE	0.000	-5.000	44.83	
1.000	1.000	63.25	0.000	0.000	Ug5_2_8_L_0						
27 D	13.15	-3.5261E-03	59.96	19.13	59.96	28.16	ACTIVE	0.000	-5.200	46.62	
1.000	1.000	65.75	0.000	0.000	Ug5_2_8_L_0						
28 D	13.65	-3.3255E-03	62.21	19.85	62.21	29.16	ACTIVE	0.000	-5.400	48.41	
1.000	1.000	68.26	0.000	0.000	Ug5_2_8_L_0						
29 D	14.15	-3.1310E-03	64.46	20.56	64.46	30.15	ACTIVE	0.000	-5.600	50.21	
1.000	1.000	70.77	0.000	0.000	Ug5_2_8_L_0						
30 D	14.65	-2.9427E-03	66.66	21.26	66.66	31.15	ACTIVE	0.000	-5.800	52.00	
1.000	1.000	73.26	0.000	0.000	Ug5_2_8_L_0						
31 D	15.15	-2.7609E-03	68.91	21.98	68.91	32.15	ACTIVE	0.000	-6.000	53.79	
1.000	1.000	75.77	0.000	0.000	Ug5_2_8_L_0						
32 D	15.66	-2.5856E-03	71.15	22.70	71.15	33.15	ACTIVE	0.000	-6.200	55.59	
1.000	1.000	78.28	0.000	0.000	Ug5_2_8_L_0						
33 D	16.16	-2.4171E-03	73.35	23.40	73.35	34.15	ACTIVE	0.000	-6.400	57.38	

1.000	1.000	80.78	0.000	0.000	Ug5_2_8_L_0						
34 D	16.66	-2.2553E-03	75.59	24.11	75.59	35.15	ACTIVE	0.000	-6.600	59.17	
1.000	1.000	83.28	0.000	0.000	Ug5_2_8_L_0						
35 D	17.16	-2.1002E-03	77.83	24.83	77.83	36.15	ACTIVE	0.000	-6.800	60.97	
1.000	1.000	85.79	0.000	0.000	Ug5_2_8_L_0						
36 D	17.66	-1.9520E-03	80.06	25.54	80.06	37.16	ACTIVE	0.000	-7.000	62.76	
1.000	1.000	88.30	0.000	0.000	Ug5_2_8_L_0						
37 D	18.16	-1.8106E-03	82.26	26.24	82.26	38.16	ACTIVE	0.000	-7.200	64.55	
1.000	1.000	90.79	0.000	0.000	Ug5_2_8_L_0						
38 D	18.66	-1.6759E-03	84.49	26.95	84.49	39.16	ACTIVE	0.000	-7.400	66.34	
1.000	1.000	93.30	0.000	0.000	Ug5_2_8_L_0						
39 D	19.16	-1.5479E-03	86.73	27.67	86.73	40.17	ACTIVE	0.000	-7.600	68.14	
1.000	1.000	95.80	0.000	0.000	Ug5_2_8_L_0						
40 D	19.66	-1.4266E-03	88.92	28.37	88.92	41.17	ACTIVE	0.000	-7.800	69.93	
1.000	1.000	98.30	0.000	0.000	Ug5_2_8_L_0						
41 D	20.16	-1.3119E-03	91.15	29.08	91.15	42.18	ACTIVE	0.000	-8.000	71.72	
1.000	1.000	100.8	0.000	0.000	Ug5_2_8_L_0						
42 D	20.66	-1.2036E-03	93.38	29.79	93.38	43.19	ACTIVE	0.000	-8.200	73.52	
1.000	1.000	103.3	0.000	0.000	Ug5_2_8_L_0						
43 D	21.16	-1.1017E-03	95.58	30.49	95.58	44.19	ACTIVE	0.000	-8.400	75.31	
1.000	1.000	105.8	0.000	0.000	Ug5_2_8_L_0						
44 D	21.66	-1.0060E-03	97.81	31.20	97.81	45.20	ACTIVE	0.000	-8.600	77.10	
1.000	1.000	108.3	0.000	0.000	Ug5_2_8_L_0						
45 D	22.16	-9.1644E-04	100.0	31.91	100.0	46.21	ACTIVE	0.000	-8.800	78.90	
1.000	1.000	110.8	0.000	0.000	Ug5_2_8_L_0						
46 D	22.66	-8.3279E-04	102.3	32.62	102.3	47.22	ACTIVE	0.000	-9.000	80.69	
1.000	1.000	113.3	0.000	0.000	Ug5_2_8_L_0						
47 D	23.16	-7.5493E-04	104.5	33.32	104.5	48.23	ACTIVE	0.000	-9.200	82.48	
1.000	1.000	115.8	0.000	0.000	Ug5_2_8_L_0						
48 D	23.66	-6.8270E-04	106.7	34.03	106.7	49.24	ACTIVE	0.000	-9.400	84.28	
1.000	1.000	118.3	0.000	0.000	Ug5_2_8_L_0						
49 D	24.16	-6.1591E-04	108.9	34.74	108.9	50.26	ACTIVE	0.000	-9.600	86.07	
1.000	1.000	120.8	0.000	0.000	Ug5_2_8_L_0						
50 D	24.66	-5.5438E-04	111.1	35.44	111.1	51.27	ACTIVE	0.000	-9.800	87.86	
1.000	1.000	123.3	0.000	0.000	Ug5_2_8_L_0						
51 D	25.16	-4.9792E-04	113.3	36.15	113.3	52.28	ACTIVE	0.000	-10.000	89.66	
1.000	1.000	125.8	0.000	0.000	Ug5_2_8_L_0						
52 D	25.66	-4.4633E-04	115.6	36.86	115.6	53.29	ACTIVE	0.000	-10.200	91.45	
1.000	1.000	128.3	0.000	0.000	Ug5_2_8_L_0						
53 D	26.16	-3.9941E-04	117.8	37.56	117.8	54.31	ACTIVE	0.000	-10.400	93.24	
1.000	1.000	130.8	0.000	0.000	Ug5_2_8_L_0						
54 D	26.66	-3.5693E-04	120.0	38.27	120.0	55.32	ACTIVE	0.000	-10.600	95.03	
1.000	1.000	133.3	0.000	0.000	Ug5_2_8_L_0						
55 D	27.16	-3.1868E-04	122.2	38.98	122.2	56.34	ACTIVE	0.000	-10.800	96.83	
1.000	1.000	135.8	0.000	0.000	Ug5_2_8_L_0						
56 D	27.66	-2.8443E-04	124.4	39.69	124.4	57.35	ACTIVE	0.000	-11.000	98.62	
1.000	1.000	138.3	0.000	0.000	Ug5_2_8_L_0						
57 D	28.45	-2.5394E-04	126.6	41.83	126.6	58.37	UL-RL	6.6389E+04	-11.200	100.4	
1.000	1.000	142.2	0.000	0.000	Ug5_2_8_L_0						
58 D	29.38	-2.2697E-04	128.8	44.68	128.8	59.39	UL-RL	6.6389E+04	-11.400	102.2	
1.000	1.000	146.9	0.000	0.000	Ug5_2_8_L_0						
59 D	30.26	-2.0327E-04	131.1	47.29	131.1	60.40	UL-RL	6.6389E+04	-11.600	104.0	
1.000	1.000	151.3	0.000	0.000	Ug5_2_8_L_0						
60 D	31.10	-1.8258E-04	133.3	49.69	133.3	61.42	UL-RL	6.6389E+04	-11.800	105.8	
1.000	1.000	155.5	0.000	0.000	Ug5_2_8_L_0						
61 D	31.90	-1.6465E-04	135.5	51.89	135.5	62.44	UL-RL	6.6389E+04	-12.000	107.6	
1.000	1.000	159.5	0.000	0.000	Ug5_2_8_L_0						
62 D	34.04	-1.4921E-04	137.5	60.81	137.5	63.36	UL-RL	3.2934E+04	-12.200	109.4	
1.000	1.000	170.2	0.000	0.000	Ug6_741_743_L_0						
63 D	34.67	-1.3602E-04	139.5	62.19	139.5	64.28	UL-RL	3.2934E+04	-12.400	111.2	
1.000	1.000	173.4	0.000	0.000	Ug6_741_743_L_0						
64 D	35.29	-1.2484E-04	141.5	63.49	141.5	65.20	UL-RL	3.2934E+04	-12.600	113.0	
1.000	1.000	176.5	0.000	0.000	Ug6_741_743_L_0						
65 D	35.90	-1.1543E-04	143.5	64.74	143.5	66.12	UL-RL	3.2934E+04	-12.800	114.8	
1.000	1.000	179.5	0.000	0.000	Ug6_741_743_L_0						
66 D	36.49	-1.0757E-04	145.5	65.90	145.5	67.05	UL-RL	3.2934E+04	-13.000	116.6	
1.000	1.000	182.5	0.000	0.000	Ug6_741_743_L_0						
67 D	37.06	-1.0108E-04	147.5	66.94	147.5	68.02	UL-RL	3.2934E+04	-13.200	118.3	
1.000	1.000	185.3	0.000	0.000	Ug6_741_743_L_0						
68 D	37.62	-9.5766E-05	149.4	67.96	149.4	68.99	UL-RL	3.2934E+04	-13.400	120.1	
1.000	1.000	188.1	0.000	0.000	Ug6_741_743_L_0						
69 D	38.18	-9.1455E-05	151.4	68.96	151.4	69.95	UL-RL	3.2934E+04	-13.600	121.9	
1.000	1.000	190.9	0.000	0.000	Ug6_741_743_L_0						
70 D	38.73	-8.7992E-05	153.4	69.95	153.4	70.91	UL-RL	3.2934E+04	-13.800	123.7	
1.000	1.000	193.7	0.000	0.000	Ug6_741_743_L_0						
71 D	39.30	-8.5236E-05	155.4	70.96	155.4	71.90	UL-RL	3.2934E+04	-14.000	125.5	
1.000	1.000	196.5	0.000	0.000	Ug6_741_743_L_0						
72 D	39.86	-8.3059E-05	157.3	71.97	157.3	72.89	UL-RL	3.2934E+04	-14.200	127.3	
1.000	1.000	199.3	0.000	0.000	Ug6_741_743_L_0						
73 D	40.41	-8.1347E-05	159.3	72.96	159.3	73.87	UL-RL	3.2934E+04	-14.400	129.1	
1.000	1.000	202.1	0.000	0.000	Ug6_741_743_L_0						
74 D	40.97	-7.9998E-05	161.3	73.95	161.3	74.85	UL-RL	3.2934E+04	-14.600	130.9	
1.000	1.000	204.8	0.000	0.000	Ug6_741_743_L_0						
75 D	41.52	-7.8925E-05	163.3	74.93	163.3	75.83	UL-RL	3.2934E+04	-14.800	132.7	
1.000	1.000	207.6	0.000	0.000	Ug6_741_743_L_0						
76 D	42.08	-7.8053E-05	165.3	75.91	165.3	76.81	UL-RL	3.2934E+04	-15.000	134.5	
1.000	1.000	210.4	0.000	0.000	Ug6_741_743_L_0						
77 D	42.63	-7.7319E-05	167.2	76.88	167.2	77.78	UL-RL	3.2934E+04	-15.200	136.3	
1.000	1.000	213.2	0.000	0.000	Ug6_741_743_L_0						
78 D	43.19	-7.6674E-05	169.2	77.86	169.2	78.76	UL-RL	3.2934E+04	-15.400	138.1	
1.000	1.000	215.9	0.000	0.000	Ug6_741_743_L_0						

79 D	43.74	-7.6079E-05	171.2	78.83	171.2	79.74	UL-RL	3.2934E+04	-15.60	139.9
1.000	1.000	218.7	0.000	0.000	Ug6_741_743_L_0					
80 D	44.29	-7.5507E-05	173.2	79.81	173.2	80.71	UL-RL	3.2934E+04	-15.80	141.7
1.000	1.000	221.5	0.000	0.000	Ug6_741_743_L_0					
81 D	22.42	-7.4942E-05	175.2	80.78	175.2	81.69	UL-RL	3.2934E+04	-16.00	143.4
1.000	1.000	224.2	0.000	0.000	Ug6_741_743_L_0					

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|                PARATIEPLUS(TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION *Build date:Jul 11, 2017*                |
|                                                                                                                                            |
|                                                                                                                                            |
|                NewProject.BaseDesignSection_28.SISMICAGEO_1847                                                                                   |
|                Exe Time :24 May 2018 18:25:50                                                                                               |
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New Project

STRESS RESULTS FOR GROUP NO. 2

0\_R  
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 81  
CURRENT TIME IS 4.0000

HARDENING 2D SOIL ELEMENT

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

EL * FACTOR	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
1	0.000	--	--	--	--	--	REMOVED	--	0.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
2	0.000	--	--	--	--	--	REMOVED	--	-0.2000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
3	0.000	--	--	--	--	--	REMOVED	--	-0.4000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
4	0.000	--	--	--	--	--	REMOVED	--	-0.6000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
5	0.000	--	--	--	--	--	REMOVED	--	-0.8000	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	--	-1.200	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
8	0.000	--	--	--	--	--	REMOVED	--	-1.400	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
9	0.000	--	--	--	--	--	REMOVED	--	-1.600	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
10	0.000	--	--	--	--	--	REMOVED	--	-1.800	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
11	0.000	--	--	--	--	--	REMOVED	--	-2.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
12	0.000	--	--	--	--	--	REMOVED	--	-2.200	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
13	0.000	--	--	--	--	--	REMOVED	--	-2.400	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
14	0.000	--	--	--	--	--	REMOVED	--	-2.600	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
15	0.000	--	--	--	--	--	REMOVED	--	-2.800	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
16 D	0.000	6.0392E-03	0.000	0.000	30.00	42.73	PASSIVE	0.000	-3.000	0.000	
1.000	1.000	0.000	0.000	0.000	Ug5_2_8_L_0						
17 D	2.083	5.7948E-03	1.793	8.209	32.00	45.72	PASSIVE	0.000	-3.200	2.207	
1.000	1.000	10.42	0.000	0.000	Ug5_2_8_L_0						
18 D	4.166	5.5524E-03	3.586	16.42	34.00	45.08	PASSIVE	0.000	-3.400	4.414	
1.000	1.000	20.83	0.000	0.000	Ug5_2_8_L_0						
19 D	6.249	5.3124E-03	5.379	24.63	36.00	44.47	PASSIVE	0.000	-3.600	6.621	
1.000	1.000	31.25	0.000	0.000	Ug5_2_8_L_0						
20 D	8.333	5.0750E-03	7.172	32.84	38.00	43.90	PASSIVE	0.000	-3.800	8.828	
1.000	1.000	41.66	0.000	0.000	Ug5_2_8_L_0						
21 D	10.42	4.8409E-03	8.966	41.04	40.00	43.37	PASSIVE	0.000	-4.000	11.03	
1.000	1.000	52.08	0.000	0.000	Ug5_2_8_L_0						
22 D	12.50	4.6104E-03	10.76	49.25	42.00	49.25	PASSIVE	0.000	-4.200	13.24	
1.000	1.000	62.49	0.000	0.000	Ug5_2_8_L_0						
23 D	14.58	4.3838E-03	12.55	57.46	44.00	57.46	PASSIVE	0.000	-4.400	15.45	
1.000	1.000	72.91	0.000	0.000	Ug5_2_8_L_0						
24 D	16.67	4.1618E-03	14.34	65.67	46.00	65.67	PASSIVE	0.000	-4.600	17.66	
1.000	1.000	83.33	0.000	0.000	Ug5_2_8_L_0						
25 D	18.75	3.9446E-03	16.14	73.88	48.00	73.88	PASSIVE	0.000	-4.800	19.86	
1.000	1.000	93.74	0.000	0.000	Ug5_2_8_L_0						
26 D	20.77	3.7326E-03	17.93	81.80	50.00	81.80	V-C	1.4121E+04	-5.000	22.07	
1.000	1.000	103.9	0.000	0.000	Ug5_2_8_L_0						
27 D	20.74	3.5261E-03	19.72	79.44	52.00	79.44	V-C	1.4121E+04	-5.200	24.28	
1.000	1.000	103.7	0.000	0.000	Ug5_2_8_L_0						
28 D	20.73	3.3255E-03	21.52	77.17	54.00	77.17	V-C	1.4121E+04	-5.400	26.48	
1.000	1.000	103.7	0.000	0.000	Ug5_2_8_L_0						
29 D	20.74	3.1310E-03	23.31	75.01	56.00	75.01	V-C	1.4121E+04	-5.600	28.69	
1.000	1.000	103.7	0.000	0.000	Ug5_2_8_L_0						
30 D	20.77	2.9427E-03	25.10	72.96	58.00	72.96	V-C	1.4121E+04	-5.800	30.90	
1.000	1.000	103.9	0.000	0.000	Ug5_2_8_L_0						
31 D	20.82	2.7609E-03	26.90	71.02	60.00	71.02	V-C	1.4121E+04	-6.000	33.10	
1.000	1.000	104.1	0.000	0.000	Ug5_2_8_L_0						
32 D	20.90	2.5856E-03	28.69	69.19	62.00	69.19	V-C	1.4121E+04	-6.200	35.31	
1.000	1.000	104.5	0.000	0.000	Ug5_2_8_L_0						
33 D	21.00	2.4171E-03	30.48	67.47	64.00	67.47	V-C	1.4121E+04	-6.400	37.52	

1.000	1.000	105.0	0.000	0.000	Ug5_2_8_L_0					
34 D	21.12	2.2553E-03	32.28	65.86	66.00	65.86	V-C	1.4121E+04	-6.600	39.72
1.000	1.000	105.6	0.000	0.000	Ug5_2_8_L_0					
35 D	21.26	2.1002E-03	34.07	64.37	68.00	64.37	V-C	1.4121E+04	-6.800	41.93
1.000	1.000	106.3	0.000	0.000	Ug5_2_8_L_0					
36 D	21.43	1.9520E-03	35.86	62.99	70.00	62.99	V-C	1.4121E+04	-7.000	44.14
1.000	1.000	107.1	0.000	0.000	Ug5_2_8_L_0					
37 D	21.62	1.8106E-03	37.66	61.73	72.00	61.73	V-C	1.4121E+04	-7.200	46.34
1.000	1.000	108.1	0.000	0.000	Ug5_2_8_L_0					
38 D	21.83	1.6759E-03	39.45	60.58	74.00	60.58	V-C	1.4121E+04	-7.400	48.55
1.000	1.000	109.1	0.000	0.000	Ug5_2_8_L_0					
39 D	22.06	1.5479E-03	41.24	59.55	76.00	59.55	V-C	1.4121E+04	-7.600	50.76
1.000	1.000	110.3	0.000	0.000	Ug5_2_8_L_0					
40 D	22.32	1.4266E-03	43.03	58.62	78.00	58.62	V-C	1.4121E+04	-7.800	52.97
1.000	1.000	111.6	0.000	0.000	Ug5_2_8_L_0					
41 D	22.59	1.3119E-03	44.83	57.80	80.00	57.80	V-C	1.4121E+04	-8.000	55.17
1.000	1.000	113.0	0.000	0.000	Ug5_2_8_L_0					
42 D	22.89	1.2036E-03	46.62	57.09	82.00	57.09	V-C	1.4121E+04	-8.200	57.38
1.000	1.000	114.5	0.000	0.000	Ug5_2_8_L_0					
43 D	23.21	1.1017E-03	48.41	56.49	84.00	56.49	V-C	1.4121E+04	-8.400	59.59
1.000	1.000	116.1	0.000	0.000	Ug5_2_8_L_0					
44 D	23.56	1.0060E-03	50.21	55.98	86.00	55.98	V-C	1.4121E+04	-8.600	61.79
1.000	1.000	117.8	0.000	0.000	Ug5_2_8_L_0					
45 D	23.92	9.1644E-04	52.00	55.58	88.00	55.58	V-C	1.4121E+04	-8.800	64.00
1.000	1.000	119.6	0.000	0.000	Ug5_2_8_L_0					
46 D	24.30	8.3279E-04	53.79	55.27	90.00	55.27	V-C	1.4121E+04	-9.000	66.21
1.000	1.000	121.5	0.000	0.000	Ug5_2_8_L_0					
47 D	24.70	7.5493E-04	55.59	55.06	92.00	55.06	V-C	1.4121E+04	-9.200	68.41
1.000	1.000	123.5	0.000	0.000	Ug5_2_8_L_0					
48 D	25.11	6.8270E-04	57.38	54.94	94.00	54.94	V-C	1.4121E+04	-9.400	70.62
1.000	1.000	125.6	0.000	0.000	Ug5_2_8_L_0					
49 D	25.55	6.1591E-04	59.17	54.91	96.00	54.91	V-C	1.4121E+04	-9.600	72.83
1.000	1.000	127.7	0.000	0.000	Ug5_2_8_L_0					
50 D	26.00	5.5438E-04	60.97	54.96	98.00	54.96	V-C	1.4121E+04	-9.800	75.03
1.000	1.000	130.0	0.000	0.000	Ug5_2_8_L_0					
51 D	26.47	4.9792E-04	62.76	55.09	100.00	55.09	V-C	1.4121E+04	-10.000	77.24
1.000	1.000	132.3	0.000	0.000	Ug5_2_8_L_0					
52 D	26.95	4.4633E-04	64.55	55.30	102.0	55.30	V-C	1.4121E+04	-10.200	79.45
1.000	1.000	134.7	0.000	0.000	Ug5_2_8_L_0					
53 D	27.45	3.9941E-04	66.34	55.59	104.0	55.59	V-C	1.4121E+04	-10.400	81.66
1.000	1.000	137.2	0.000	0.000	Ug5_2_8_L_0					
54 D	27.96	3.5693E-04	68.14	55.94	106.0	55.94	V-C	1.4121E+04	-10.600	83.86
1.000	1.000	139.8	0.000	0.000	Ug5_2_8_L_0					
55 D	28.49	3.1868E-04	69.93	56.36	108.0	56.36	V-C	1.4121E+04	-10.800	86.07
1.000	1.000	142.4	0.000	0.000	Ug5_2_8_L_0					
56 D	29.02	2.8443E-04	71.72	56.84	110.0	56.84	V-C	1.4121E+04	-11.000	88.28
1.000	1.000	145.1	0.000	0.000	Ug5_2_8_L_0					
57 D	29.57	2.5394E-04	73.52	57.38	112.0	57.38	V-C	1.4121E+04	-11.200	90.48
1.000	1.000	147.9	0.000	0.000	Ug5_2_8_L_0					
58 D	30.13	2.2697E-04	75.31	57.98	114.0	57.98	V-C	1.4121E+04	-11.400	92.69
1.000	1.000	150.7	0.000	0.000	Ug5_2_8_L_0					
59 D	30.66	2.0327E-04	77.10	58.42	116.0	58.73	UL-RL	4.2364E+04	-11.600	94.90
1.000	1.000	153.3	0.000	0.000	Ug5_2_8_L_0					
60 D	31.12	1.8258E-04	78.90	58.47	118.0	59.74	UL-RL	4.2364E+04	-11.800	97.10
1.000	1.000	155.6	0.000	0.000	Ug5_2_8_L_0					
61 D	31.59	1.6465E-04	80.69	58.65	120.0	60.76	UL-RL	4.2364E+04	-12.000	99.31
1.000	1.000	158.0	0.000	0.000	Ug5_2_8_L_0					
62 D	31.70	1.4921E-04	82.28	56.97	121.8	61.39	UL-RL	3.0743E+04	-12.200	101.5
1.000	1.000	158.5	0.000	0.000	Ug6_741_743_L_0					
63 D	32.24	1.3602E-04	83.88	57.46	123.6	62.28	UL-RL	3.0743E+04	-12.400	103.7
1.000	1.000	161.2	0.000	0.000	Ug6_741_743_L_0					
64 D	32.79	1.2484E-04	85.47	58.00	125.4	63.16	UL-RL	3.0743E+04	-12.600	105.9
1.000	1.000	163.9	0.000	0.000	Ug6_741_743_L_0					
65 D	33.35	1.1543E-04	87.06	58.61	127.2	64.05	UL-RL	3.0743E+04	-12.800	108.1
1.000	1.000	166.7	0.000	0.000	Ug6_741_743_L_0					
66 D	33.92	1.0757E-04	88.66	59.26	129.0	64.94	UL-RL	3.0743E+04	-13.000	110.3
1.000	1.000	169.6	0.000	0.000	Ug6_741_743_L_0					
67 D	34.50	1.0108E-04	90.25	59.96	130.8	65.83	UL-RL	3.0743E+04	-13.200	112.6
1.000	1.000	172.5	0.000	0.000	Ug6_741_743_L_0					
68 D	35.09	9.5766E-05	91.84	60.69	132.6	66.72	UL-RL	3.0743E+04	-13.400	114.8
1.000	1.000	175.4	0.000	0.000	Ug6_741_743_L_0					
69 D	35.68	9.1455E-05	93.43	61.45	134.4	67.60	UL-RL	3.0743E+04	-13.600	117.0
1.000	1.000	178.4	0.000	0.000	Ug6_741_743_L_0					
70 D	36.28	8.7992E-05	95.03	62.24	136.2	68.49	UL-RL	3.0743E+04	-13.800	119.2
1.000	1.000	181.4	0.000	0.000	Ug6_741_743_L_0					
71 D	36.89	8.5236E-05	96.62	63.05	138.0	69.38	UL-RL	3.0743E+04	-14.000	121.4
1.000	1.000	184.4	0.000	0.000	Ug6_741_743_L_0					
72 D	37.49	8.3059E-05	98.21	63.88	139.8	70.27	UL-RL	3.0743E+04	-14.200	123.6
1.000	1.000	187.5	0.000	0.000	Ug6_741_743_L_0					
73 D	38.10	8.1347E-05	99.81	64.73	141.6	71.16	UL-RL	3.0743E+04	-14.400	125.8
1.000	1.000	190.5	0.000	0.000	Ug6_741_743_L_0					
74 D	38.72	7.9998E-05	101.4	65.58	143.4	72.05	UL-RL	3.0743E+04	-14.600	128.0
1.000	1.000	193.6	0.000	0.000	Ug6_741_743_L_0					
75 D	39.33	7.8925E-05	103.0	66.44	145.2	72.94	UL-RL	3.0743E+04	-14.800	130.2
1.000	1.000	196.6	0.000	0.000	Ug6_741_743_L_0					
76 D	39.94	7.8053E-05	104.6	67.31	147.0	73.84	UL-RL	3.0743E+04	-15.000	132.4
1.000	1.000	199.7	0.000	0.000	Ug6_741_743_L_0					
77 D	40.56	7.7319E-05	106.2	68.18	148.8	74.73	UL-RL	3.0743E+04	-15.200	134.6
1.000	1.000	202.8	0.000	0.000	Ug6_741_743_L_0					
78 D	41.18	7.6674E-05	107.8	69.06	150.6	75.62	UL-RL	3.0743E+04	-15.400	136.8
1.000	1.000	205.9	0.000	0.000	Ug6_741_743_L_0					

79 D	41.79	7.6079E-05	109.4	69.93	152.4	76.51	UL-RL	3.0743E+04	-15.60	139.0
1.000	1.000	209.0	0.000	0.000	Ug6_741_743_L_0					
80 D	42.41	7.5507E-05	111.0	70.81	154.2	77.40	UL-RL	3.0743E+04	-15.80	141.2
1.000	1.000	212.1	0.000	0.000	Ug6_741_743_L_0					
81 D	21.51	7.4942E-05	112.6	71.69	156.0	78.29	UL-RL	3.0743E+04	-16.00	143.4
1.000	1.000	215.1	0.000	0.000	Ug6_741_743_L_0					





70	-22.473	22.473	-24.743	20.249
71	-20.064	20.064	-20.249	16.236
72	-17.703	17.703	-16.236	12.695
73	-15.394	15.394	-12.695	9.6165
74	-13.142	13.142	-9.6165	6.9882
75	-10.948	10.948	-6.9882	4.7986
76	-8.8147	8.8147	-4.7986	3.0357
77	-6.7436	6.7436	-3.0357	1.6869
78	-4.7353	4.7353	-1.6869	0.73987
79	-2.7904	2.7904	-0.73987	0.18180
80	-0.90894	0.90894	-0.18180	1.66134E-12

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ITER      0  RNORM = 0.000      RMNORM= 0.000
            RINORM=0.2984E+06  RIMNOR=0.3182E+07
            RENORM= 1113.      REMNOR=0.2914E-18  RATIO =0.6108E-01  TOLER =0.1000E-03  NOT CONVERGED
            RFMAX = 75.63      RMMAX = 239.0
            RTSMAL=0.1000E-03  RMSMAL=0.1000E-02
            RDT =0.2984E+06    RDR =0.3182E+07
            RATIOI=0.6108E-01  RATIOOR= 0.000
            MAX UN= 10.45      IEQ=   49 NODE      25 DOF   1  Y-DISPL.F
            MIN UN=-.1182     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=0.2984E+06  RIMNOR=0.3182E+07
            RENORM= 383.5      REMNOR=0.3997E-18  RATIO =0.3585E-01  TOLER =0.1000E-03  NOT CONVERGED
            RFMAX = 75.63      RMMAX = 239.0
            RTSMAL=0.1000E-03  RMSMAL=0.1000E-02
            RDT =0.2984E+06    RDR =0.3182E+07
            RATIOI=0.3585E-01  RATIOOR= 0.000
            MAX UN= 4.811      IEQ=   59 NODE      30 DOF   1  Y-DISPL.F
            MIN UN=-.2853E-02  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=0.2984E+06  RIMNOR=0.3182E+07
            RENORM= 347.0      REMNOR=0.4908E-17  RATIO =0.3410E-01  TOLER =0.1000E-03  NOT CONVERGED
            RFMAX = 75.63      RMMAX = 239.0
            RTSMAL=0.1000E-03  RMSMAL=0.1000E-02
            RDT =0.2984E+06    RDR =0.3182E+07
            RATIOI=0.3410E-01  RATIOOR= 0.000
            MAX UN= 11.02      IEQ=   61 NODE      31 DOF   1  Y-DISPL.F
            MIN UN=-1.849     IEQ=  159 NODE      80 DOF   1  Y-DISPL.F
            NO. OF CONTACT CONSTRAINT VIOLATIONS      0

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ITER      4  RNORM = 0.000      RMNORM= 0.000
            RINORM=0.2984E+06  RIMNOR=0.3182E+07
            RENORM= 5.136      REMNOR=0.4095E-17  RATIO =0.4149E-02  TOLER =0.1000E-03  NOT CONVERGED
            RFMAX = 75.63      RMMAX = 239.0
            RTSMAL=0.1000E-03  RMSMAL=0.1000E-02
            RDT =0.2984E+06    RDR =0.3182E+07
            RATIOI=0.4149E-02  RATIOOR= 0.000
            MAX UN= 2.236      IEQ=   71 NODE      36 DOF   1  Y-DISPL.F
            MIN UN=-.6865E-01  IEQ=  137 NODE      69 DOF   1  Y-DISPL.F
            NO. OF CONTACT CONSTRAINT VIOLATIONS      0

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ITER      5  RNORM = 0.000      RMNORM= 0.000
            RINORM=0.2984E+06  RIMNOR=0.3182E+07
            RENORM=0.1262E-03  REMNOR=0.1640E-17  RATIO =0.2056E-04  TOLER =0.1000E-03  CONVERGED !
            RFMAX = 75.63      RMMAX = 239.0
            RTSMAL=0.1000E-03  RMSMAL=0.1000E-02
            RDT =0.2984E+06    RDR =0.3182E+07
            RATIOI=0.2056E-04  RATIOOR= 0.000
            MAX UN=0.8207E-08  IEQ=   35 NODE      18 DOF   1  Y-DISPL.F
            MIN UN=-.1053E-01  IEQ=  137 NODE      69 DOF   1  Y-DISPL.F
            NO. OF CONTACT CONSTRAINT VIOLATIONS      0

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|                PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
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New Project
SOLUTION REACHED USING      5 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	2.8957013E-02	-3.1028633E-03	
2	2.8336441E-02	-3.1028633E-03	
3	2.7715869E-02	-3.1028564E-03	
4	2.7095300E-02	-3.1028215E-03	
5	2.6474744E-02	-3.1027238E-03	
6	2.5854218E-02	-3.1025141E-03	
7	2.5233750E-02	-3.1021291E-03	
8	2.4613383E-02	-3.1014914E-03	
9	2.3993177E-02	-3.1005092E-03	
10	2.3373210E-02	-3.0990762E-03	
11	2.2753584E-02	-3.0970720E-03	
12	2.2134428E-02	-3.0943619E-03	
13	2.1515896E-02	-3.0907971E-03	
14	2.0898177E-02	-3.0862143E-03	
15	2.0281490E-02	-3.0804365E-03	
16	1.9666095E-02	-3.0732723E-03	
17	1.9052284E-02	-3.0645164E-03	
18	1.8440406E-02	-3.0539492E-03	
19	1.7830841E-02	-3.0413373E-03	
20	1.7224024E-02	-3.0264332E-03	
21	1.6620441E-02	-3.0089753E-03	
22	1.6020625E-02	-2.9886881E-03	
23	1.5425172E-02	-2.9653108E-03	
24	1.4834721E-02	-2.9386265E-03	
25	1.4249953E-02	-2.9084620E-03	
26	1.3671577E-02	-2.8746876E-03	
27	1.3100327E-02	-2.8372178E-03	
28	1.2536942E-02	-2.7960100E-03	
29	1.1982173E-02	-2.7510661E-03	
30	1.1436762E-02	-2.7024314E-03	
31	1.0901440E-02	-2.6501949E-03	
32	1.0376918E-02	-2.5944899E-03	
33	9.8638662E-03	-2.5354924E-03	
34	9.3629255E-03	-2.4734229E-03	
35	8.8746843E-03	-2.4085456E-03	
36	8.3996740E-03	-2.3411684E-03	
37	7.9383624E-03	-2.2716431E-03	
38	7.4911360E-03	-2.2003638E-03	
39	7.0583070E-03	-2.1277338E-03	
40	6.6401074E-03	-2.0541302E-03	
41	6.2366963E-03	-1.9799055E-03	
42	5.8481646E-03	-1.9053888E-03	
43	5.4745398E-03	-1.8308867E-03	
44	5.1157900E-03	-1.7566845E-03	
45	4.7718300E-03	-1.6830476E-03	
46	4.4425186E-03	-1.6102214E-03	
47	4.1276722E-03	-1.5384342E-03	
48	3.8270616E-03	-1.4678971E-03	
49	3.5404170E-03	-1.3988051E-03	
50	3.2674325E-03	-1.3313390E-03	
51	3.0077633E-03	-1.2656645E-03	
52	2.7610310E-03	-1.2019337E-03	
53	2.5268558E-03	-1.1402945E-03	
54	2.3047774E-03	-1.0808697E-03	
55	2.0943521E-03	-1.0237825E-03	
56	1.8951011E-03	-9.6914418E-04	
57	1.7065243E-03	-9.1705701E-04	
58	1.5281019E-03	-8.6761574E-04	
59	1.3592958E-03	-8.2090809E-04	
60	1.1995510E-03	-7.7701538E-04	
61	1.0482969E-03	-7.3601329E-04	
62	9.0494827E-04	-6.9797242E-04	
63	7.6890966E-04	-6.6290579E-04	
64	6.3959059E-04	-6.3076949E-04	
65	5.1640966E-04	-6.0151637E-04	
66	3.9879519E-04	-5.7509617E-04	
67	2.8618621E-04	-5.5145059E-04	
68	1.7803470E-04	-5.3050869E-04	
69	7.3808356E-05	-5.1218251E-04	
70	-2.7005296E-05	-4.9636128E-04	
71	-1.2489445E-04	-4.8291447E-04	
72	-2.2031965E-04	-4.7169622E-04	
73	-3.1371079E-04	-4.6254574E-04	

74	-4.0546412E-04	-4.5528778E-04
75	-4.9593945E-04	-4.4973300E-04
76	-5.8545732E-04	-4.4567827E-04
77	-6.7429631E-04	-4.4290685E-04
78	-7.6269027E-04	-4.4118860E-04
79	-8.5082573E-04	-4.4028007E-04
80	-9.3883917E-04	-4.3992453E-04
81	-1.0268188E-03	-4.3985210E-04



1.000	1.000	79.06	0.000	0.000	Ug5_2_8_L_0						
34 D	16.30	-9.3629E-03	78.19	24.94	78.19	35.15	ACTIVE	0.000	-6.600	56.57	
1.000	1.000	81.51	0.000	0.000	Ug5_2_8_L_0						
35 D	16.79	-8.8747E-03	80.51	25.68	80.51	36.15	ACTIVE	0.000	-6.800	58.29	
1.000	1.000	83.97	0.000	0.000	Ug5_2_8_L_0						
36 D	17.28	-8.3997E-03	82.82	26.42	82.82	37.16	ACTIVE	0.000	-7.000	60.00	
1.000	1.000	86.42	0.000	0.000	Ug5_2_8_L_0						
37 D	17.77	-7.9384E-03	85.10	27.15	85.10	38.16	ACTIVE	0.000	-7.200	61.71	
1.000	1.000	88.86	0.000	0.000	Ug5_2_8_L_0						
38 D	18.26	-7.4911E-03	87.41	27.88	87.41	39.16	ACTIVE	0.000	-7.400	63.43	
1.000	1.000	91.31	0.000	0.000	Ug5_2_8_L_0						
39 D	18.75	-7.0583E-03	89.72	28.62	89.72	40.17	ACTIVE	0.000	-7.600	65.14	
1.000	1.000	93.76	0.000	0.000	Ug5_2_8_L_0						
40 D	19.24	-6.6401E-03	92.00	29.35	92.00	41.17	ACTIVE	0.000	-7.800	66.86	
1.000	1.000	96.20	0.000	0.000	Ug5_2_8_L_0						
41 D	19.73	-6.2367E-03	94.31	30.08	94.31	42.18	ACTIVE	0.000	-8.000	68.57	
1.000	1.000	98.66	0.000	0.000	Ug5_2_8_L_0						
42 D	20.22	-5.8482E-03	96.62	30.82	96.62	43.19	ACTIVE	0.000	-8.200	70.29	
1.000	1.000	101.1	0.000	0.000	Ug5_2_8_L_0						
43 D	20.71	-5.4745E-03	98.89	31.55	98.89	44.19	ACTIVE	0.000	-8.400	72.00	
1.000	1.000	103.5	0.000	0.000	Ug5_2_8_L_0						
44 D	21.20	-5.1158E-03	101.2	32.28	101.2	45.20	ACTIVE	0.000	-8.600	73.71	
1.000	1.000	106.0	0.000	0.000	Ug5_2_8_L_0						
45 D	21.69	-4.7718E-03	103.5	33.02	103.5	46.21	ACTIVE	0.000	-8.800	75.43	
1.000	1.000	108.4	0.000	0.000	Ug5_2_8_L_0						
46 D	22.18	-4.4425E-03	105.8	33.75	105.8	47.22	ACTIVE	0.000	-9.000	77.14	
1.000	1.000	110.9	0.000	0.000	Ug5_2_8_L_0						
47 D	22.67	-4.1277E-03	108.1	34.48	108.1	48.23	ACTIVE	0.000	-9.200	78.86	
1.000	1.000	113.3	0.000	0.000	Ug5_2_8_L_0						
48 D	23.16	-3.8271E-03	110.4	35.22	110.4	49.24	ACTIVE	0.000	-9.400	80.57	
1.000	1.000	115.8	0.000	0.000	Ug5_2_8_L_0						
49 D	23.65	-3.5404E-03	112.7	35.95	112.7	50.26	ACTIVE	0.000	-9.600	82.29	
1.000	1.000	118.2	0.000	0.000	Ug5_2_8_L_0						
50 D	24.14	-3.2674E-03	115.0	36.68	115.0	51.27	ACTIVE	0.000	-9.800	84.00	
1.000	1.000	120.7	0.000	0.000	Ug5_2_8_L_0						
51 D	24.62	-3.0078E-03	117.3	37.41	117.3	52.28	ACTIVE	0.000	-10.000	85.71	
1.000	1.000	123.1	0.000	0.000	Ug5_2_8_L_0						
52 D	25.11	-2.7610E-03	119.6	38.15	119.6	53.29	ACTIVE	0.000	-10.200	87.43	
1.000	1.000	125.6	0.000	0.000	Ug5_2_8_L_0						
53 D	25.60	-2.5269E-03	121.9	38.87	121.9	54.31	ACTIVE	0.000	-10.400	89.14	
1.000	1.000	128.0	0.000	0.000	Ug5_2_8_L_0						
54 D	26.09	-2.3048E-03	124.2	39.61	124.2	55.32	ACTIVE	0.000	-10.600	90.86	
1.000	1.000	130.5	0.000	0.000	Ug5_2_8_L_0						
55 D	26.58	-2.0944E-03	126.5	40.34	126.5	56.34	ACTIVE	0.000	-10.800	92.57	
1.000	1.000	132.9	0.000	0.000	Ug5_2_8_L_0						
56 D	27.07	-1.8951E-03	128.8	41.07	128.8	57.35	ACTIVE	0.000	-11.000	94.29	
1.000	1.000	135.4	0.000	0.000	Ug5_2_8_L_0						
57 D	27.56	-1.7065E-03	131.0	41.80	131.0	58.37	ACTIVE	0.000	-11.200	96.00	
1.000	1.000	137.8	0.000	0.000	Ug5_2_8_L_0						
58 D	28.05	-1.5281E-03	133.3	42.53	133.3	59.39	ACTIVE	0.000	-11.400	97.71	
1.000	1.000	140.2	0.000	0.000	Ug5_2_8_L_0						
59 D	28.54	-1.3593E-03	135.6	43.27	135.6	60.40	ACTIVE	0.000	-11.600	99.43	
1.000	1.000	142.7	0.000	0.000	Ug5_2_8_L_0						
60 D	29.03	-1.1996E-03	137.9	43.99	137.9	61.42	ACTIVE	0.000	-11.800	101.1	
1.000	1.000	145.1	0.000	0.000	Ug5_2_8_L_0						
61 D	29.52	-1.0483E-03	140.2	44.73	140.2	62.44	ACTIVE	0.000	-12.000	102.9	
1.000	1.000	147.6	0.000	0.000	Ug5_2_8_L_0						
62 D	33.11	-9.0495E-04	142.3	60.99	142.3	63.36	ACTIVE	0.000	-12.200	104.6	
1.000	1.000	165.6	0.000	0.000	Ug6_741_743_L_0						
63 D	33.65	-7.6891E-04	144.4	61.97	144.4	64.63	ACTIVE	0.000	-12.400	106.3	
1.000	1.000	168.3	0.000	0.000	Ug6_741_743_L_0						
64 D	34.19	-6.3959E-04	146.5	62.94	146.5	65.98	ACTIVE	0.000	-12.600	108.0	
1.000	1.000	170.9	0.000	0.000	Ug6_741_743_L_0						
65 D	34.72	-5.1641E-04	148.6	63.91	148.6	67.26	ACTIVE	0.000	-12.800	109.7	
1.000	1.000	173.6	0.000	0.000	Ug6_741_743_L_0						
66 D	35.26	-3.9880E-04	150.6	64.87	150.6	68.46	ACTIVE	0.000	-13.000	111.4	
1.000	1.000	176.3	0.000	0.000	Ug6_741_743_L_0						
67 D	35.79	-2.8619E-04	152.7	65.83	152.7	69.54	ACTIVE	0.000	-13.200	113.1	
1.000	1.000	179.0	0.000	0.000	Ug6_741_743_L_0						
68 D	36.68	-1.7803E-04	154.7	68.57	154.7	70.60	UL-RL	2.4701E+04	-13.400	114.9	
1.000	1.000	183.4	0.000	0.000	Ug6_741_743_L_0						
69 D	37.66	-7.3808E-05	156.8	71.73	156.8	71.81	UL-RL	2.4701E+04	-13.600	116.6	
1.000	1.000	188.3	0.000	0.000	Ug6_741_743_L_0						
70 D	38.38	2.7005E-05	158.8	73.60	158.8	73.62	UL-RL	2.4701E+04	-13.800	118.3	
1.000	1.000	191.9	0.000	0.000	Ug6_741_743_L_0						
71 D	39.09	1.2489E-04	160.9	75.45	160.9	75.45	V-C	8234.	-14.000	120.0	
1.000	1.000	195.5	0.000	0.000	Ug6_741_743_L_0						
72 D	39.80	2.2032E-04	162.9	77.26	162.9	77.26	V-C	8234.	-14.200	121.7	
1.000	1.000	199.0	0.000	0.000	Ug6_741_743_L_0						
73 D	40.50	3.1371E-04	165.0	79.05	165.0	79.05	V-C	8234.	-14.400	123.4	
1.000	1.000	202.5	0.000	0.000	Ug6_741_743_L_0						
74 D	41.19	4.0546E-04	167.1	80.82	167.1	80.82	V-C	8234.	-14.600	125.1	
1.000	1.000	206.0	0.000	0.000	Ug6_741_743_L_0						
75 D	41.89	4.9594E-04	169.1	82.58	169.1	82.58	V-C	8234.	-14.800	126.9	
1.000	1.000	209.4	0.000	0.000	Ug6_741_743_L_0						
76 D	42.58	5.8546E-04	171.2	84.33	171.2	84.33	V-C	8234.	-15.000	128.6	
1.000	1.000	212.9	0.000	0.000	Ug6_741_743_L_0						
77 D	43.27	6.7430E-04	173.2	86.07	173.2	86.07	V-C	8234.	-15.200	130.3	
1.000	1.000	216.4	0.000	0.000	Ug6_741_743_L_0						
78 D	43.96	7.6269E-04	175.3	87.80	175.3	87.80	V-C	8234.	-15.400	132.0	
1.000	1.000	219.8	0.000	0.000	Ug6_741_743_L_0						

79 D	44.65	8.5083E-04	177.4	89.54	177.4	89.54	V-C	8234.	-15.60	133.7
1.000	1.000	223.3	0.000	0.000	Ug6_741_743_L_0					
80 D	45.34	9.3884E-04	179.4	91.27	179.4	91.27	V-C	8234.	-15.80	135.4
1.000	1.000	226.7	0.000	0.000	Ug6_741_743_L_0					
81 D	23.01	1.0268E-03	181.5	93.00	181.5	93.00	V-C	8234.	-16.00	137.1
1.000	1.000	230.1	0.000	0.000	Ug6_741_743_L_0					

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|                PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*                |
|                                                                                                                                            |
|                                                                                                                                            |
|                NewProject.BaseDesignSection_28.SISMICAGEO_1847                                                                                   |
|                Exe Time :24 May 2018  18:25:50                                                                                               |
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New Project

STRESS RESULTS FOR GROUP NO. 2

0\_R :  
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 81  
CURRENT TIME IS 5.0000

HARDENING 2D SOIL ELEMENT

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

EL * FACTOR	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
1	0.000	--	--	--	--	--	REMOVED	--	0.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
2	0.000	--	--	--	--	--	REMOVED	--	-0.2000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
3	0.000	--	--	--	--	--	REMOVED	--	-0.4000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
4	0.000	--	--	--	--	--	REMOVED	--	-0.6000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
5	0.000	--	--	--	--	--	REMOVED	--	-0.8000	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	--	-1.200	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
8	0.000	--	--	--	--	--	REMOVED	--	-1.400	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
9	0.000	--	--	--	--	--	REMOVED	--	-1.600	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
10	0.000	--	--	--	--	--	REMOVED	--	-1.800	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
11	0.000	--	--	--	--	--	REMOVED	--	-2.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
12	0.000	--	--	--	--	--	REMOVED	--	-2.200	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
13	0.000	--	--	--	--	--	REMOVED	--	-2.400	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
14	0.000	--	--	--	--	--	REMOVED	--	-2.600	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
15	0.000	--	--	--	--	--	REMOVED	--	-2.800	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
16	0.000	--	--	--	--	--	REMOVED	--	-3.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
17	0.000	--	--	--	--	--	REMOVED	--	-3.200	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
18	0.000	--	--	--	--	--	REMOVED	--	-3.400	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
19	0.000	--	--	--	--	--	REMOVED	--	-3.600	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
20	0.000	--	--	--	--	--	REMOVED	--	-3.800	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
21 D	0.000	1.6620E-02	0.000	0.000	40.00	43.37	PASSIVE	0.000	-4.000	0.000	
1.000	1.000	0.000	0.000	0.000	Ug5_2_8_L_0						
22 D	2.027	1.6021E-02	1.714	7.848	42.00	49.25	PASSIVE	0.000	-4.200	2.286	
1.000	1.000	10.13	0.000	0.000	Ug5_2_8_L_0						
23 D	4.053	1.5425E-02	3.429	15.70	44.00	57.46	PASSIVE	0.000	-4.400	4.571	
1.000	1.000	20.27	0.000	0.000	Ug5_2_8_L_0						
24 D	6.080	1.4835E-02	5.143	23.54	46.00	65.67	PASSIVE	0.000	-4.600	6.857	
1.000	1.000	30.40	0.000	0.000	Ug5_2_8_L_0						
25 D	8.107	1.4250E-02	6.857	31.39	48.00	73.88	PASSIVE	0.000	-4.800	9.143	
1.000	1.000	40.53	0.000	0.000	Ug5_2_8_L_0						
26 D	10.13	1.3672E-02	8.571	39.24	50.00	81.80	PASSIVE	0.000	-5.000	11.43	
1.000	1.000	50.67	0.000	0.000	Ug5_2_8_L_0						
27 D	12.16	1.3100E-02	10.29	47.09	52.00	79.44	PASSIVE	0.000	-5.200	13.71	
1.000	1.000	60.80	0.000	0.000	Ug5_2_8_L_0						
28 D	14.19	1.2537E-02	12.00	54.94	54.00	77.17	PASSIVE	0.000	-5.400	16.00	
1.000	1.000	70.94	0.000	0.000	Ug5_2_8_L_0						
29 D	16.21	1.1982E-02	13.71	62.78	56.00	75.01	PASSIVE	0.000	-5.600	18.29	
1.000	1.000	81.07	0.000	0.000	Ug5_2_8_L_0						
30 D	18.24	1.1437E-02	15.43	70.63	58.00	72.96	PASSIVE	0.000	-5.800	20.57	
1.000	1.000	91.20	0.000	0.000	Ug5_2_8_L_0						
31 D	20.27	1.0901E-02	17.14	78.48	60.00	78.48	PASSIVE	0.000	-6.000	22.86	
1.000	1.000	101.3	0.000	0.000	Ug5_2_8_L_0						
32 D	22.29	1.0377E-02	18.86	86.33	62.00	86.33	PASSIVE	0.000	-6.200	25.14	
1.000	1.000	111.5	0.000	0.000	Ug5_2_8_L_0						
33 D	24.32	9.8639E-03	20.57	94.18	64.00	94.18	PASSIVE	0.000	-6.400	27.43	

1.000	1.000	121.6	0.000	0.000	Ug5_2_8_L_0					
34 D	26.35	9.3629E-03	22.29	102.0	66.00	102.0	PASSIVE	0.000	-6.600	29.71
1.000	1.000	131.7	0.000	0.000	Ug5_2_8_L_0					
35 D	28.37	8.8747E-03	24.00	109.9	68.00	109.9	PASSIVE	0.000	-6.800	32.00
1.000	1.000	141.9	0.000	0.000	Ug5_2_8_L_0					
36 D	30.40	8.3997E-03	25.71	117.7	70.00	117.7	PASSIVE	0.000	-7.000	34.29
1.000	1.000	152.0	0.000	0.000	Ug5_2_8_L_0					
37 D	32.39	7.9384E-03	27.43	125.4	72.00	125.4	V-C	1.0591E+04	-7.200	36.57
1.000	1.000	161.9	0.000	0.000	Ug5_2_8_L_0					
38 D	31.95	7.4911E-03	29.14	120.9	74.00	120.9	V-C	1.0591E+04	-7.400	38.86
1.000	1.000	159.8	0.000	0.000	Ug5_2_8_L_0					
39 D	31.56	7.0583E-03	30.86	116.6	76.00	116.6	V-C	1.0591E+04	-7.600	41.14
1.000	1.000	157.8	0.000	0.000	Ug5_2_8_L_0					
40 D	31.20	6.6401E-03	32.57	112.6	78.00	112.6	V-C	1.0591E+04	-7.800	43.43
1.000	1.000	156.0	0.000	0.000	Ug5_2_8_L_0					
41 D	30.88	6.2367E-03	34.29	108.7	80.00	108.7	V-C	1.0591E+04	-8.000	45.71
1.000	1.000	154.4	0.000	0.000	Ug5_2_8_L_0					
42 D	30.61	5.8482E-03	36.00	105.0	82.00	105.0	V-C	1.0591E+04	-8.200	48.00
1.000	1.000	153.0	0.000	0.000	Ug5_2_8_L_0					
43 D	30.37	5.4745E-03	37.71	101.6	84.00	101.6	V-C	1.0591E+04	-8.400	50.29
1.000	1.000	151.8	0.000	0.000	Ug5_2_8_L_0					
44 D	30.17	5.1158E-03	39.43	98.26	86.00	98.26	V-C	1.0591E+04	-8.600	52.57
1.000	1.000	150.8	0.000	0.000	Ug5_2_8_L_0					
45 D	30.00	4.7718E-03	41.14	95.17	88.00	95.17	V-C	1.0591E+04	-8.800	54.86
1.000	1.000	150.0	0.000	0.000	Ug5_2_8_L_0					
46 D	29.88	4.4425E-03	42.86	92.26	90.00	92.26	V-C	1.0591E+04	-9.000	57.14
1.000	1.000	149.4	0.000	0.000	Ug5_2_8_L_0					
47 D	29.79	4.1277E-03	44.57	89.54	92.00	89.54	V-C	1.0591E+04	-9.200	59.43
1.000	1.000	149.0	0.000	0.000	Ug5_2_8_L_0					
48 D	29.74	3.8271E-03	46.29	87.00	94.00	87.00	V-C	1.0591E+04	-9.400	61.71
1.000	1.000	148.7	0.000	0.000	Ug5_2_8_L_0					
49 D	29.73	3.5404E-03	48.00	84.63	96.00	84.63	V-C	1.0591E+04	-9.600	64.00
1.000	1.000	148.6	0.000	0.000	Ug5_2_8_L_0					
50 D	29.75	3.2674E-03	49.71	82.44	98.00	82.44	V-C	1.0591E+04	-9.800	66.29
1.000	1.000	148.7	0.000	0.000	Ug5_2_8_L_0					
51 D	29.80	3.0078E-03	51.43	80.42	100.00	80.42	V-C	1.0591E+04	-10.000	68.57
1.000	1.000	149.0	0.000	0.000	Ug5_2_8_L_0					
52 D	29.88	2.7610E-03	53.14	78.56	102.0	78.56	V-C	1.0591E+04	-10.200	70.86
1.000	1.000	149.4	0.000	0.000	Ug5_2_8_L_0					
53 D	30.00	2.5269E-03	54.86	76.86	104.0	76.86	V-C	1.0591E+04	-10.400	73.14
1.000	1.000	150.0	0.000	0.000	Ug5_2_8_L_0					
54 D	30.15	2.3048E-03	56.57	75.31	106.0	75.31	V-C	1.0591E+04	-10.600	75.43
1.000	1.000	150.7	0.000	0.000	Ug5_2_8_L_0					
55 D	30.32	2.0944E-03	58.29	73.91	108.0	73.91	V-C	1.0591E+04	-10.800	77.71
1.000	1.000	151.6	0.000	0.000	Ug5_2_8_L_0					
56 D	30.53	1.8951E-03	60.00	72.64	110.0	72.64	V-C	1.0591E+04	-11.000	80.00
1.000	1.000	152.6	0.000	0.000	Ug5_2_8_L_0					
57 D	30.76	1.7065E-03	61.71	71.50	112.0	71.50	V-C	1.0591E+04	-11.200	82.29
1.000	1.000	153.8	0.000	0.000	Ug5_2_8_L_0					
58 D	31.01	1.5281E-03	63.43	70.49	114.0	70.49	V-C	1.0591E+04	-11.400	84.57
1.000	1.000	155.1	0.000	0.000	Ug5_2_8_L_0					
59 D	31.29	1.3593E-03	65.14	69.60	116.0	69.60	V-C	1.0591E+04	-11.600	86.86
1.000	1.000	156.5	0.000	0.000	Ug5_2_8_L_0					
60 D	31.59	1.1996E-03	66.86	68.81	118.0	68.81	V-C	1.0591E+04	-11.800	89.14
1.000	1.000	158.0	0.000	0.000	Ug5_2_8_L_0					
61 D	31.91	1.0483E-03	68.57	68.13	120.0	68.13	V-C	1.0591E+04	-12.000	91.43
1.000	1.000	159.6	0.000	0.000	Ug5_2_8_L_0					
62 D	31.63	9.0495E-04	70.09	64.44	121.8	64.44	V-C	7686.	-12.200	93.71
1.000	1.000	158.2	0.000	0.000	Ug6_741_743_L_0					
63 D	32.05	7.6891E-04	71.60	64.24	123.6	64.24	V-C	7686.	-12.400	96.00
1.000	1.000	160.2	0.000	0.000	Ug6_741_743_L_0					
64 D	32.48	6.3959E-04	73.11	64.10	125.4	64.10	V-C	7686.	-12.600	98.29
1.000	1.000	162.4	0.000	0.000	Ug6_741_743_L_0					
65 D	32.90	5.1641E-04	74.63	63.95	127.2	64.05	UL-RL	2.3057E+04	-12.800	100.6
1.000	1.000	164.5	0.000	0.000	Ug6_741_743_L_0					
66 D	32.98	3.9880E-04	76.14	62.06	129.0	64.94	UL-RL	2.3057E+04	-13.000	102.9
1.000	1.000	164.9	0.000	0.000	Ug6_741_743_L_0					
67 D	33.09	2.8619E-04	77.66	60.29	130.8	65.83	UL-RL	2.3057E+04	-13.200	105.1
1.000	1.000	165.4	0.000	0.000	Ug6_741_743_L_0					
68 D	33.21	1.7803E-04	79.17	58.64	132.6	66.72	UL-RL	2.3057E+04	-13.400	107.4
1.000	1.000	166.1	0.000	0.000	Ug6_741_743_L_0					
69 D	33.36	7.3808E-05	80.69	57.08	134.4	67.60	UL-RL	2.3057E+04	-13.600	109.7
1.000	1.000	166.8	0.000	0.000	Ug6_741_743_L_0					
70 D	33.52	-2.7005E-05	82.20	55.61	136.2	68.49	UL-RL	2.3057E+04	-13.800	112.0
1.000	1.000	167.6	0.000	0.000	Ug6_741_743_L_0					
71 D	33.70	-1.2489E-04	83.71	54.21	138.0	69.38	UL-RL	2.3057E+04	-14.000	114.3
1.000	1.000	168.5	0.000	0.000	Ug6_741_743_L_0					
72 D	33.89	-2.2032E-04	85.23	52.88	139.8	70.27	UL-RL	2.3057E+04	-14.200	116.6
1.000	1.000	169.4	0.000	0.000	Ug6_741_743_L_0					
73 D	34.09	-3.1371E-04	86.74	51.59	141.6	71.16	UL-RL	2.3057E+04	-14.400	118.9
1.000	1.000	170.4	0.000	0.000	Ug6_741_743_L_0					
74 D	34.30	-4.0546E-04	88.26	50.34	143.4	72.05	UL-RL	2.3057E+04	-14.600	121.1
1.000	1.000	171.5	0.000	0.000	Ug6_741_743_L_0					
75 D	34.51	-4.9594E-04	89.77	49.13	145.2	72.94	UL-RL	2.3057E+04	-14.800	123.4
1.000	1.000	172.6	0.000	0.000	Ug6_741_743_L_0					
76 D	34.73	-5.8546E-04	91.29	47.94	147.0	73.84	UL-RL	2.3057E+04	-15.000	125.7
1.000	1.000	173.7	0.000	0.000	Ug6_741_743_L_0					
77 D	34.95	-6.7430E-04	92.80	46.76	148.8	74.73	UL-RL	2.3057E+04	-15.200	128.0
1.000	1.000	174.8	0.000	0.000	Ug6_741_743_L_0					
78 D	35.18	-7.6269E-04	94.31	45.60	150.6	75.62	UL-RL	2.3057E+04	-15.400	130.3
1.000	1.000	175.9	0.000	0.000	Ug6_741_743_L_0					



79 D	35.40	-8.5083E-04	95.83	44.44	152.4	76.51	UL-RL	2.3057E+04	-15.60	132.6
1.000	1.000	177.0	0.000	0.000	Ug6_741_743_L_0					
80 D	35.63	-9.3884E-04	97.34	43.28	154.2	77.40	UL-RL	2.3057E+04	-15.80	134.9
1.000	1.000	178.1	0.000	0.000	Ug6_741_743_L_0					
81 D	17.93	-1.0268E-03	98.86	42.12	156.0	78.29	UL-RL	2.3057E+04	-16.00	137.1
1.000	1.000	179.3	0.000	0.000	Ug6_741_743_L_0					



70	-80.974	80.974	-102.56	86.368
71	-75.584	75.584	-86.368	71.251
72	-69.679	69.679	-71.251	57.315
73	-63.273	63.273	-57.315	44.661
74	-56.377	56.377	-44.661	33.385
75	-49.002	49.002	-33.385	23.585
76	-41.152	41.152	-23.585	15.354
77	-32.834	32.834	-15.354	8.7875
78	-24.049	24.049	-8.7875	3.9777
79	-14.800	14.800	-3.9777	1.0176
80	-5.0878	5.0878	-1.0176	1.37121E-11

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ITER      0  RNORM = 0.000      RMNORM= 0.000
            RINORM=0.1028E+07  RIMNOR=0.1455E+08
            RENORM= 442.0      REMNOR=0.1640E-17  RATIO =0.2073E-01  TOLER =0.1000E-03  NOT CONVERGED
            RFMAX = 131.6      RMMAX = 524.0
            RTSMAL=0.1000E-02  RMSMAL=0.1000E-02
            RDT =0.1028E+07    RDR =0.1455E+08
            RATIOI=0.2073E-01  RATIOOR= 0.000
            MAX UN= 5.293      IEQ= 71 NODE      36 DOF      1 Y-DISPL.F
            MIN UN=-.8312E-01  IEQ= 41 NODE      21 DOF      1 Y-DISPL.F
            NO. OF CONTACT CONSTRAINT VIOLATIONS      0

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ITER      2  RNORM = 0.000      RMNORM= 0.000
            RINORM=0.1028E+07  RIMNOR=0.1455E+08
            RENORM= 180.0      REMNOR=0.2726E-17  RATIO =0.1323E-01  TOLER =0.1000E-03  NOT CONVERGED
            RFMAX = 131.6      RMMAX = 524.0
            RTSMAL=0.1000E-02  RMSMAL=0.1000E-02
            RDT =0.1028E+07    RDR =0.1455E+08
            RATIOI=0.1323E-01  RATIOOR= 0.000
            MAX UN= 2.678      IEQ= 77 NODE      39 DOF      1 Y-DISPL.F
            MIN UN=-.6013E-09  IEQ= 38 NODE      19 DOF      2 X-ROT.F
            NO. OF CONTACT CONSTRAINT VIOLATIONS      0

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ITER      3  RNORM = 0.000      RMNORM= 0.000
            RINORM=0.1028E+07  RIMNOR=0.1455E+08
            RENORM= 463.7      REMNOR=0.2502E-17  RATIO =0.2124E-01  TOLER =0.1000E-03  NOT CONVERGED
            RFMAX = 131.6      RMMAX = 524.0
            RTSMAL=0.1000E-02  RMSMAL=0.1000E-02
            RDT =0.1028E+07    RDR =0.1455E+08
            RATIOI=0.2124E-01  RATIOOR= 0.000
            MAX UN= 15.02      IEQ= 5 NODE      3 DOF      1 Y-DISPL.F
            MIN UN=-.6849      IEQ= 161 NODE     81 DOF      1 Y-DISPL.F
            NO. OF CONTACT CONSTRAINT VIOLATIONS      0

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ITER      4  RNORM = 0.000      RMNORM= 0.000
            RINORM=0.1028E+07  RIMNOR=0.1455E+08
            RENORM= 93.10      REMNOR=0.2038E-16  RATIO =0.9516E-02  TOLER =0.1000E-03  NOT CONVERGED
            RFMAX = 131.6      RMMAX = 524.0
            RTSMAL=0.1000E-02  RMSMAL=0.1000E-02
            RDT =0.1028E+07    RDR =0.1455E+08
            RATIOI=0.9516E-02  RATIOOR= 0.000
            MAX UN= 6.262      IEQ= 81 NODE      41 DOF      1 Y-DISPL.F
            MIN UN=-3.933      IEQ= 157 NODE     79 DOF      1 Y-DISPL.F
            NO. OF CONTACT CONSTRAINT VIOLATIONS      0

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ITER      5  RNORM = 0.000      RMNORM= 0.000
            RINORM=0.1028E+07  RIMNOR=0.1455E+08
            RENORM= 3.639      REMNOR=0.1266E-16  RATIO =0.1881E-02  TOLER =0.1000E-03  NOT CONVERGED
            RFMAX = 131.6      RMMAX = 524.0
            RTSMAL=0.1000E-02  RMSMAL=0.1000E-02
            RDT =0.1028E+07    RDR =0.1455E+08
            RATIOI=0.1881E-02  RATIOOR= 0.000
            MAX UN=0.9650      IEQ= 133 NODE     67 DOF      1 Y-DISPL.F
            MIN UN=-1.096      IEQ= 147 NODE     74 DOF      1 Y-DISPL.F
            NO. OF CONTACT CONSTRAINT VIOLATIONS      0

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ITER      6  RNORM = 0.000      RMNORM= 0.000
            RINORM=0.1028E+07  RIMNOR=0.1455E+08
            RENORM=0.3190E-14  REMNOR=0.6420E-17  RATIO =0.5570E-10  TOLER =0.1000E-03  CONVERGED !
            RFMAX = 131.6      RMMAX = 524.0
            RTSMAL=0.1000E-02  RMSMAL=0.1000E-02
            RDT =0.1028E+07    RDR =0.1455E+08
            RATIOI=0.5570E-10  RATIOOR= 0.000
            MAX UN=0.1666E-07  IEQ= 11 NODE      6 DOF      1 Y-DISPL.F
            MIN UN=-.2173E-07  IEQ= 9 NODE      5 DOF      1 Y-DISPL.F
            NO. OF CONTACT CONSTRAINT VIOLATIONS      0

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|                PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
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New Project
SOLUTION REACHED USING      6 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   6   ( AT TIME   6.000   )

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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	5.0722476E-02	-4.9450064E-03	
2	4.9733475E-02	-4.9450064E-03	
3	4.8744474E-02	-4.9449995E-03	
4	4.7755477E-02	-4.9449651E-03	
5	4.6766492E-02	-4.9448685E-03	
6	4.5777537E-02	-4.9446612E-03	
7	4.4788639E-02	-4.9442807E-03	
8	4.3799841E-02	-4.9436503E-03	
9	4.2811202E-02	-4.9426793E-03	
10	4.1822799E-02	-4.9412628E-03	
11	4.0834734E-02	-4.9392816E-03	
12	3.9847133E-02	-4.9366025E-03	
13	3.8860150E-02	-4.9330784E-03	
14	3.7873969E-02	-4.9285480E-03	
15	3.6888809E-02	-4.9228362E-03	
16	3.5904926E-02	-4.9157538E-03	
17	3.4922608E-02	-4.9070978E-03	
18	3.3942201E-02	-4.8966511E-03	
19	3.2964082E-02	-4.8841831E-03	
20	3.1988679E-02	-4.8694489E-03	
21	3.1016475E-02	-4.8521900E-03	
22	3.0047994E-02	-4.8321340E-03	
23	2.9083827E-02	-4.8089947E-03	
24	2.8124622E-02	-4.7824719E-03	
25	2.7171084E-02	-4.7522661E-03	
26	2.6223979E-02	-4.7181063E-03	
27	2.5284125E-02	-4.6797650E-03	
28	2.4352369E-02	-4.6370569E-03	
29	2.3429603E-02	-4.5898404E-03	
30	2.2516740E-02	-4.5380169E-03	
31	2.1614707E-02	-4.4815308E-03	
32	2.0724444E-02	-4.4203698E-03	
33	1.9846873E-02	-4.3545637E-03	
34	1.8982923E-02	-4.2841864E-03	
35	1.8133496E-02	-4.2093545E-03	
36	1.7299467E-02	-4.1302278E-03	
37	1.6481681E-02	-4.0470092E-03	
38	1.5680924E-02	-3.9599439E-03	
39	1.4897941E-02	-3.8693212E-03	
40	1.4133411E-02	-3.7754729E-03	
41	1.3387942E-02	-3.6787740E-03	
42	1.2662063E-02	-3.5796428E-03	
43	1.1956216E-02	-3.4785404E-03	
44	1.1270745E-02	-3.3759711E-03	
45	1.0605893E-02	-3.2724786E-03	
46	9.9617823E-03	-3.1686050E-03	
47	9.3384421E-03	-3.0648592E-03	
48	8.7357984E-03	-2.9617164E-03	
49	8.1536858E-03	-2.8596199E-03	
50	7.5918559E-03	-2.7589830E-03	
51	7.0499726E-03	-2.6601884E-03	
52	6.5276212E-03	-2.5635900E-03	
53	6.0243794E-03	-2.4695268E-03	
54	5.5396473E-03	-2.3782910E-03	
55	5.0728556E-03	-2.2901674E-03	
56	4.6233557E-03	-2.2054134E-03	
57	4.1904499E-03	-2.1242643E-03	
58	3.7733953E-03	-2.0469351E-03	
59	3.3714082E-03	-1.9736211E-03	
60	2.9836674E-03	-1.9044992E-03	
61	2.6093184E-03	-1.8397283E-03	
62	2.2474765E-03	-1.7794508E-03	
63	1.8972344E-03	-1.7237290E-03	
64	1.5576822E-03	-1.6725477E-03	
65	1.2279145E-03	-1.6258788E-03	
66	9.0703290E-04	-1.5836769E-03	
67	5.9415023E-04	-1.5458773E-03	
68	2.8839395E-04	-1.5123981E-03	
69	-1.1090002E-05	-1.4831337E-03	
70	-3.0513083E-04	-1.4579390E-03	
71	-5.9452436E-04	-1.4366257E-03	
72	-8.8002444E-04	-1.4189625E-03	
73	-1.1623344E-03	-1.4046748E-03	

74	-1.4420981E-03	-1.3934436E-03
75	-1.7198925E-03	-1.3849228E-03
76	-1.9962242E-03	-1.3787558E-03
77	-2.2715273E-03	-1.3745755E-03
78	-2.5461617E-03	-1.3720048E-03
79	-2.8204107E-03	-1.3706566E-03
80	-3.0944793E-03	-1.3701333E-03
81	-3.3685056E-03	-1.3700277E-03

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION *Build date:Jul 11, 2017* |
|                                                                                               |
|                                                                                               |
|          NewProject.BaseDesignSection_28.SISMICAGEO_1847 |
|          Exe Time :24 May 2018          18:25:50 |
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New Project

STRESS RESULTS FOR GROUP NO. 1

0\_L  
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 81  
CURRENT TIME IS 6.0000

HARDENING 2D SOIL ELEMENT

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

EL * FACTOR	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
1 D	0.000	-5.0722E-02	0.000	0.000	0.000	0.000	ACTIVE	0.000	0.000	0.000	
1.000	1.000	0.000	0.000	0.000	Ug5_2_8_L_0						
2 D	0.4835	-4.9733E-02	2.335	0.7450	2.335	1.603	ACTIVE	0.000	-0.2000	1.673	
1.000	1.000	2.418	0.000	0.000	Ug5_2_8_L_0						
3 D	0.9697	-4.8744E-02	4.711	1.503	4.711	3.119	ACTIVE	0.000	-0.4000	3.345	
1.000	1.000	4.848	0.000	0.000	Ug5_2_8_L_0						
4 D	1.459	-4.7755E-02	7.140	2.278	7.140	4.509	ACTIVE	0.000	-0.6000	5.018	
1.000	1.000	7.296	0.000	0.000	Ug5_2_8_L_0						
5 D	1.951	-4.6766E-02	9.606	3.064	9.606	5.780	ACTIVE	0.000	-0.8000	6.691	
1.000	1.000	9.755	0.000	0.000	Ug5_2_8_L_0						
6 D	2.444	-4.5778E-02	12.09	3.857	12.09	6.958	ACTIVE	0.000	-1.000	8.364	
1.000	1.000	12.22	0.000	0.000	Ug5_2_8_L_0						
7 D	2.937	-4.4789E-02	14.57	4.649	14.57	8.073	ACTIVE	0.000	-1.200	10.04	
1.000	1.000	14.69	0.000	0.000	Ug5_2_8_L_0						
8 D	3.437	-4.3800E-02	17.17	5.476	17.17	9.145	ACTIVE	0.000	-1.400	11.71	
1.000	1.000	17.18	0.000	0.000	Ug5_2_8_L_0						
9 D	3.939	-4.2811E-02	19.79	6.314	19.79	10.19	ACTIVE	0.000	-1.600	13.38	
1.000	1.000	19.70	0.000	0.000	Ug5_2_8_L_0						
10 D	4.428	-4.1823E-02	22.21	7.085	22.21	11.22	ACTIVE	0.000	-1.800	15.05	
1.000	1.000	22.14	0.000	0.000	Ug5_2_8_L_0						
11 D	4.925	-4.0835E-02	24.76	7.898	24.76	12.23	ACTIVE	0.000	-2.000	16.73	
1.000	1.000	24.62	0.000	0.000	Ug5_2_8_L_0						
12 D	5.420	-3.9847E-02	27.27	8.699	27.27	13.24	ACTIVE	0.000	-2.200	18.40	
1.000	1.000	27.10	0.000	0.000	Ug5_2_8_L_0						
13 D	5.905	-3.8860E-02	29.64	9.454	29.64	14.24	ACTIVE	0.000	-2.400	20.07	
1.000	1.000	29.53	0.000	0.000	Ug5_2_8_L_0						
14 D	6.398	-3.7874E-02	32.11	10.24	32.11	15.24	ACTIVE	0.000	-2.600	21.75	
1.000	1.000	31.99	0.000	0.000	Ug5_2_8_L_0						
15 D	6.889	-3.6889E-02	34.57	11.03	34.57	16.23	ACTIVE	0.000	-2.800	23.42	
1.000	1.000	34.44	0.000	0.000	Ug5_2_8_L_0						
16 D	7.379	-3.5905E-02	37.01	11.80	37.01	17.23	ACTIVE	0.000	-3.000	25.09	
1.000	1.000	36.90	0.000	0.000	Ug5_2_8_L_0						
17 D	7.863	-3.4923E-02	39.34	12.55	39.34	18.22	ACTIVE	0.000	-3.200	26.76	
1.000	1.000	39.31	0.000	0.000	Ug5_2_8_L_0						
18 D	8.352	-3.3942E-02	41.77	13.32	41.77	19.21	ACTIVE	0.000	-3.400	28.44	
1.000	1.000	41.76	0.000	0.000	Ug5_2_8_L_0						
19 D	8.840	-3.2964E-02	44.18	14.09	44.18	20.21	ACTIVE	0.000	-3.600	30.11	
1.000	1.000	44.20	0.000	0.000	Ug5_2_8_L_0						
20 D	9.323	-3.1989E-02	46.51	14.84	46.51	21.20	ACTIVE	0.000	-3.800	31.78	
1.000	1.000	46.62	0.000	0.000	Ug5_2_8_L_0						
21 D	9.811	-3.1016E-02	48.91	15.60	48.91	22.19	ACTIVE	0.000	-4.000	33.45	
1.000	1.000	49.06	0.000	0.000	Ug5_2_8_L_0						
22 D	10.30	-3.0048E-02	51.30	16.37	51.30	23.18	ACTIVE	0.000	-4.200	35.13	
1.000	1.000	51.49	0.000	0.000	Ug5_2_8_L_0						
23 D	10.78	-2.9084E-02	53.63	17.11	53.63	24.18	ACTIVE	0.000	-4.400	36.80	
1.000	1.000	53.91	0.000	0.000	Ug5_2_8_L_0						
24 D	11.27	-2.8125E-02	56.01	17.87	56.01	25.17	ACTIVE	0.000	-4.600	38.47	
1.000	1.000	56.34	0.000	0.000	Ug5_2_8_L_0						
25 D	11.75	-2.7171E-02	58.39	18.63	58.39	26.17	ACTIVE	0.000	-4.800	40.15	
1.000	1.000	58.77	0.000	0.000	Ug5_2_8_L_0						
26 D	12.24	-2.6224E-02	60.77	19.39	60.77	27.16	ACTIVE	0.000	-5.000	41.82	
1.000	1.000	61.20	0.000	0.000	Ug5_2_8_L_0						
27 D	12.72	-2.5284E-02	63.09	20.13	63.09	28.16	ACTIVE	0.000	-5.200	43.49	
1.000	1.000	63.62	0.000	0.000	Ug5_2_8_L_0						
28 D	13.21	-2.4352E-02	65.46	20.88	65.46	29.16	ACTIVE	0.000	-5.400	45.16	
1.000	1.000	66.05	0.000	0.000	Ug5_2_8_L_0						
29 D	13.70	-2.3430E-02	67.83	21.64	67.83	30.15	ACTIVE	0.000	-5.600	46.84	
1.000	1.000	68.48	0.000	0.000	Ug5_2_8_L_0						
30 D	14.18	-2.2517E-02	70.15	22.38	70.15	31.15	ACTIVE	0.000	-5.800	48.51	
1.000	1.000	70.89	0.000	0.000	Ug5_2_8_L_0						
31 D	14.66	-2.1615E-02	72.52	23.13	72.52	32.15	ACTIVE	0.000	-6.000	50.18	
1.000	1.000	73.31	0.000	0.000	Ug5_2_8_L_0						
32 D	15.15	-2.0724E-02	74.88	23.89	74.88	33.15	ACTIVE	0.000	-6.200	51.85	
1.000	1.000	75.74	0.000	0.000	Ug5_2_8_L_0						
33 D	15.63	-1.9847E-02	77.20	24.63	77.20	34.15	ACTIVE	0.000	-6.400	53.53	

1.000	1.000	78.15	0.000	0.000	Ug5_2_8_L_0						
34 D	16.12	-1.8983E-02	79.56	25.38	79.56	35.15	ACTIVE	0.000	-6.600	55.20	
1.000	1.000	80.58	0.000	0.000	Ug5_2_8_L_0						
35 D	16.60	-1.8133E-02	81.92	26.13	81.92	36.15	ACTIVE	0.000	-6.800	56.87	
1.000	1.000	83.00	0.000	0.000	Ug5_2_8_L_0						
36 D	17.09	-1.7299E-02	84.28	26.88	84.28	37.16	ACTIVE	0.000	-7.000	58.55	
1.000	1.000	85.43	0.000	0.000	Ug5_2_8_L_0						
37 D	17.57	-1.6482E-02	86.59	27.62	86.59	38.16	ACTIVE	0.000	-7.200	60.22	
1.000	1.000	87.84	0.000	0.000	Ug5_2_8_L_0						
38 D	18.05	-1.5681E-02	88.95	28.37	88.95	39.16	ACTIVE	0.000	-7.400	61.89	
1.000	1.000	90.26	0.000	0.000	Ug5_2_8_L_0						
39 D	18.54	-1.4898E-02	91.30	29.13	91.30	40.17	ACTIVE	0.000	-7.600	63.56	
1.000	1.000	92.69	0.000	0.000	Ug5_2_8_L_0						
40 D	19.02	-1.4133E-02	93.62	29.86	93.62	41.17	ACTIVE	0.000	-7.800	65.24	
1.000	1.000	95.10	0.000	0.000	Ug5_2_8_L_0						
41 D	19.50	-1.3388E-02	95.97	30.61	95.97	42.18	ACTIVE	0.000	-8.000	66.91	
1.000	1.000	97.52	0.000	0.000	Ug5_2_8_L_0						
42 D	19.99	-1.2662E-02	98.32	31.36	98.32	43.19	ACTIVE	0.000	-8.200	68.58	
1.000	1.000	99.95	0.000	0.000	Ug5_2_8_L_0						
43 D	20.47	-1.1956E-02	100.6	32.10	100.6	44.19	ACTIVE	0.000	-8.400	70.25	
1.000	1.000	102.4	0.000	0.000	Ug5_2_8_L_0						
44 D	20.96	-1.1271E-02	103.0	32.85	103.0	45.20	ACTIVE	0.000	-8.600	71.93	
1.000	1.000	104.8	0.000	0.000	Ug5_2_8_L_0						
45 D	21.44	-1.0606E-02	105.3	33.60	105.3	46.21	ACTIVE	0.000	-8.800	73.60	
1.000	1.000	107.2	0.000	0.000	Ug5_2_8_L_0						
46 D	21.92	-9.9618E-03	107.7	34.35	107.7	47.22	ACTIVE	0.000	-9.000	75.27	
1.000	1.000	109.6	0.000	0.000	Ug5_2_8_L_0						
47 D	22.41	-9.3384E-03	110.0	35.09	110.0	48.23	ACTIVE	0.000	-9.200	76.95	
1.000	1.000	112.0	0.000	0.000	Ug5_2_8_L_0						
48 D	22.89	-8.7358E-03	112.3	35.84	112.3	49.24	ACTIVE	0.000	-9.400	78.62	
1.000	1.000	114.5	0.000	0.000	Ug5_2_8_L_0						
49 D	23.38	-8.1537E-03	114.7	36.59	114.7	50.26	ACTIVE	0.000	-9.600	80.29	
1.000	1.000	116.9	0.000	0.000	Ug5_2_8_L_0						
50 D	23.86	-7.5919E-03	117.0	37.33	117.0	51.27	ACTIVE	0.000	-9.800	81.96	
1.000	1.000	119.3	0.000	0.000	Ug5_2_8_L_0						
51 D	24.34	-7.0500E-03	119.4	38.07	119.4	52.28	ACTIVE	0.000	-10.000	83.64	
1.000	1.000	121.7	0.000	0.000	Ug5_2_8_L_0						
52 D	24.83	-6.5276E-03	121.7	38.82	121.7	53.29	ACTIVE	0.000	-10.200	85.31	
1.000	1.000	124.1	0.000	0.000	Ug5_2_8_L_0						
53 D	25.31	-6.0244E-03	124.0	39.56	124.0	54.31	ACTIVE	0.000	-10.400	86.98	
1.000	1.000	126.5	0.000	0.000	Ug5_2_8_L_0						
54 D	25.79	-5.5396E-03	126.4	40.31	126.4	55.32	ACTIVE	0.000	-10.600	88.65	
1.000	1.000	129.0	0.000	0.000	Ug5_2_8_L_0						
55 D	26.28	-5.0729E-03	128.7	41.06	128.7	56.34	ACTIVE	0.000	-10.800	90.33	
1.000	1.000	131.4	0.000	0.000	Ug5_2_8_L_0						
56 D	26.76	-4.6234E-03	131.0	41.80	131.0	57.35	ACTIVE	0.000	-11.000	92.00	
1.000	1.000	133.8	0.000	0.000	Ug5_2_8_L_0						
57 D	27.24	-4.1904E-03	133.4	42.54	133.4	58.37	ACTIVE	0.000	-11.200	93.67	
1.000	1.000	136.2	0.000	0.000	Ug5_2_8_L_0						
58 D	27.73	-3.7734E-03	135.7	43.29	135.7	59.39	ACTIVE	0.000	-11.400	95.35	
1.000	1.000	138.6	0.000	0.000	Ug5_2_8_L_0						
59 D	28.21	-3.3714E-03	138.0	44.04	138.0	60.40	ACTIVE	0.000	-11.600	97.02	
1.000	1.000	141.1	0.000	0.000	Ug5_2_8_L_0						
60 D	28.69	-2.9837E-03	140.4	44.77	140.4	61.42	ACTIVE	0.000	-11.800	98.69	
1.000	1.000	143.5	0.000	0.000	Ug5_2_8_L_0						
61 D	29.18	-2.6093E-03	142.7	45.52	142.7	62.44	ACTIVE	0.000	-12.000	100.4	
1.000	1.000	145.9	0.000	0.000	Ug5_2_8_L_0						
62 D	32.84	-2.2475E-03	144.8	62.17	144.8	63.36	ACTIVE	0.000	-12.200	102.0	
1.000	1.000	164.2	0.000	0.000	Ug6_741_743_L_0						
63 D	33.38	-1.8972E-03	147.0	63.17	147.0	64.63	ACTIVE	0.000	-12.400	103.7	
1.000	1.000	166.9	0.000	0.000	Ug6_741_743_L_0						
64 D	33.99	-1.5577E-03	149.1	64.57	149.1	65.98	UL-RL	2.1956E+04	-12.600	105.4	
1.000	1.000	170.0	0.000	0.000	Ug6_741_743_L_0						
65 D	34.72	-1.2279E-03	151.2	66.56	151.2	67.26	UL-RL	2.1956E+04	-12.800	107.1	
1.000	1.000	173.6	0.000	0.000	Ug6_741_743_L_0						
66 D	35.44	-9.0703E-04	153.3	68.49	153.3	68.49	V-C	7319.	-13.000	108.7	
1.000	1.000	177.2	0.000	0.000	Ug6_741_743_L_0						
67 D	36.05	-5.9415E-04	155.4	69.86	155.4	69.86	V-C	7319.	-13.200	110.4	
1.000	1.000	180.3	0.000	0.000	Ug6_741_743_L_0						
68 D	36.78	-2.8839E-04	157.5	71.81	157.5	71.81	V-C	7319.	-13.400	112.1	
1.000	1.000	183.9	0.000	0.000	Ug6_741_743_L_0						
69 D	37.72	1.1090E-05	159.6	74.87	159.6	74.87	V-C	7319.	-13.600	113.7	
1.000	1.000	188.6	0.000	0.000	Ug6_741_743_L_0						
70 D	38.58	3.0513E-04	161.7	77.49	161.7	77.49	V-C	7319.	-13.800	115.4	
1.000	1.000	192.9	0.000	0.000	Ug6_741_743_L_0						
71 D	39.49	5.9452E-04	163.8	80.34	163.8	80.34	V-C	7319.	-14.000	117.1	
1.000	1.000	197.4	0.000	0.000	Ug6_741_743_L_0						
72 D	40.47	8.8002E-04	165.9	83.56	165.9	83.56	V-C	7319.	-14.200	118.8	
1.000	1.000	202.3	0.000	0.000	Ug6_741_743_L_0						
73 D	41.44	1.1623E-03	168.0	86.76	168.0	86.76	V-C	7319.	-14.400	120.4	
1.000	1.000	207.2	0.000	0.000	Ug6_741_743_L_0						
74 D	42.41	1.4421E-03	170.1	89.92	170.1	89.92	V-C	7319.	-14.600	122.1	
1.000	1.000	212.0	0.000	0.000	Ug6_741_743_L_0						
75 D	43.37	1.7199E-03	172.2	93.07	172.2	93.07	V-C	7319.	-14.800	123.8	
1.000	1.000	216.9	0.000	0.000	Ug6_741_743_L_0						
76 D	44.33	1.9962E-03	174.3	96.21	174.3	96.21	V-C	7319.	-15.000	125.5	
1.000	1.000	221.7	0.000	0.000	Ug6_741_743_L_0						
77 D	45.29	2.2715E-03	176.4	99.34	176.4	99.34	V-C	7319.	-15.200	127.1	
1.000	1.000	226.5	0.000	0.000	Ug6_741_743_L_0						
78 D	46.25	2.5462E-03	178.5	102.5	178.5	102.5	V-C	7319.	-15.400	128.8	
1.000	1.000	231.3	0.000	0.000	Ug6_741_743_L_0						

79 D	47.21	2.8204E-03	180.6	105.6	180.6	105.6	V-C	7319.	-15.60	130.5
1.000	1.000	236.0	0.000	0.000	Ug6_741_743_L_0					
80 D	48.17	3.0945E-03	182.7	108.7	182.7	108.7	V-C	7319.	-15.80	132.1
1.000	1.000	240.8	0.000	0.000	Ug6_741_743_L_0					
81 D	24.56	3.3685E-03	184.8	111.8	184.8	111.8	V-C	7319.	-16.00	133.8
1.000	1.000	245.6	0.000	0.000	Ug6_741_743_L_0					



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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION *Build date:Jul 11, 2017*          |
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|          NewProject.BaseDesignSection_28.SISMICAGEO_1847          |
|          Exe Time :24 May 2018          18:25:50          |
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New Project

STRESS RESULTS FOR GROUP NO. 2

O\_R :  
 ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 81  
 CURRENT TIME IS 6.0000

HARDENING 2D SOIL ELEMENT

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

EL * FACTOR	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
1	0.000	--	--	--	--	--	REMOVED	--	0.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
2	0.000	--	--	--	--	--	REMOVED	--	-0.2000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
3	0.000	--	--	--	--	--	REMOVED	--	-0.4000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
4	0.000	--	--	--	--	--	REMOVED	--	-0.6000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
5	0.000	--	--	--	--	--	REMOVED	--	-0.8000	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	--	-1.200	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
8	0.000	--	--	--	--	--	REMOVED	--	-1.400	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
9	0.000	--	--	--	--	--	REMOVED	--	-1.600	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
10	0.000	--	--	--	--	--	REMOVED	--	-1.800	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
11	0.000	--	--	--	--	--	REMOVED	--	-2.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
12	0.000	--	--	--	--	--	REMOVED	--	-2.200	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
13	0.000	--	--	--	--	--	REMOVED	--	-2.400	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
14	0.000	--	--	--	--	--	REMOVED	--	-2.600	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
15	0.000	--	--	--	--	--	REMOVED	--	-2.800	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
16	0.000	--	--	--	--	--	REMOVED	--	-3.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
17	0.000	--	--	--	--	--	REMOVED	--	-3.200	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
18	0.000	--	--	--	--	--	REMOVED	--	-3.400	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
19	0.000	--	--	--	--	--	REMOVED	--	-3.600	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
20	0.000	--	--	--	--	--	REMOVED	--	-3.800	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
21	0.000	--	--	--	--	--	REMOVED	--	-4.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
22	0.000	--	--	--	--	--	REMOVED	--	-4.200	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
23	0.000	--	--	--	--	--	REMOVED	--	-4.400	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
24 D	0.9985	2.8125E-02	0.8364	3.829	46.00	65.67	PASSIVE	0.000	-4.600	1.164	
1.000	1.000	4.993	0.000	0.000	Ug5_2_8_L_0						
25 D	2.996	2.7171E-02	2.509	11.49	48.00	73.88	PASSIVE	0.000	-4.800	3.491	
1.000	1.000	14.98	0.000	0.000	Ug5_2_8_L_0						
26 D	4.993	2.6224E-02	4.182	19.14	50.00	81.80	PASSIVE	0.000	-5.000	5.818	
1.000	1.000	24.96	0.000	0.000	Ug5_2_8_L_0						
27 D	6.990	2.5284E-02	5.855	26.80	52.00	79.44	PASSIVE	0.000	-5.200	8.145	
1.000	1.000	34.95	0.000	0.000	Ug5_2_8_L_0						
28 D	8.987	2.4352E-02	7.527	34.46	54.00	77.17	PASSIVE	0.000	-5.400	10.47	
1.000	1.000	44.93	0.000	0.000	Ug5_2_8_L_0						
29 D	10.98	2.3430E-02	9.200	42.12	56.00	75.01	PASSIVE	0.000	-5.600	12.80	
1.000	1.000	54.92	0.000	0.000	Ug5_2_8_L_0						
30 D	12.98	2.2517E-02	10.87	49.78	58.00	72.96	PASSIVE	0.000	-5.800	15.13	
1.000	1.000	64.90	0.000	0.000	Ug5_2_8_L_0						
31 D	14.98	2.1615E-02	12.55	57.43	60.00	78.48	PASSIVE	0.000	-6.000	17.45	
1.000	1.000	74.89	0.000	0.000	Ug5_2_8_L_0						
32 D	16.97	2.0724E-02	14.22	65.09	62.00	86.33	PASSIVE	0.000	-6.200	19.78	
1.000	1.000	84.87	0.000	0.000	Ug5_2_8_L_0						
33 D	18.97	1.9847E-02	15.89	72.75	64.00	94.18	PASSIVE	0.000	-6.400	22.11	

1.000	1.000	94.86	0.000	0.000	Ug5_2_8_L_0						
34 D	20.97	1.8983E-02	17.56	80.41	66.00	102.0	PASSIVE	0.000	-6.600	24.44	
1.000	1.000	104.8	0.000	0.000	Ug5_2_8_L_0						
35 D	22.97	1.8133E-02	19.24	88.06	68.00	109.9	PASSIVE	0.000	-6.800	26.76	
1.000	1.000	114.8	0.000	0.000	Ug5_2_8_L_0						
36 D	24.96	1.7299E-02	20.91	95.72	70.00	117.7	PASSIVE	0.000	-7.000	29.09	
1.000	1.000	124.8	0.000	0.000	Ug5_2_8_L_0						
37 D	26.96	1.6482E-02	22.58	103.4	72.00	125.4	PASSIVE	0.000	-7.200	31.42	
1.000	1.000	134.8	0.000	0.000	Ug5_2_8_L_0						
38 D	28.96	1.5681E-02	24.25	111.0	74.00	120.9	PASSIVE	0.000	-7.400	33.75	
1.000	1.000	144.8	0.000	0.000	Ug5_2_8_L_0						
39 D	30.95	1.4898E-02	25.93	118.7	76.00	118.7	PASSIVE	0.000	-7.600	36.07	
1.000	1.000	154.8	0.000	0.000	Ug5_2_8_L_0						
40 D	32.95	1.4133E-02	27.60	126.4	78.00	126.4	PASSIVE	0.000	-7.800	38.40	
1.000	1.000	164.8	0.000	0.000	Ug5_2_8_L_0						
41 D	34.95	1.3388E-02	29.27	134.0	80.00	134.0	PASSIVE	0.000	-8.000	40.73	
1.000	1.000	174.7	0.000	0.000	Ug5_2_8_L_0						
42 D	36.94	1.2662E-02	30.95	141.7	82.00	141.7	PASSIVE	0.000	-8.200	43.05	
1.000	1.000	184.7	0.000	0.000	Ug5_2_8_L_0						
43 D	38.94	1.1956E-02	32.62	149.3	84.00	149.3	PASSIVE	0.000	-8.400	45.38	
1.000	1.000	194.7	0.000	0.000	Ug5_2_8_L_0						
44 D	40.65	1.1271E-02	34.29	155.6	86.00	155.6	V-C	9414.	-8.600	47.71	
1.000	1.000	203.3	0.000	0.000	Ug5_2_8_L_0						
45 D	39.89	1.0606E-02	35.96	149.4	88.00	149.4	V-C	9414.	-8.800	50.04	
1.000	1.000	199.5	0.000	0.000	Ug5_2_8_L_0						
46 D	39.19	9.9618E-03	37.64	143.6	90.00	143.6	V-C	9414.	-9.000	52.36	
1.000	1.000	195.9	0.000	0.000	Ug5_2_8_L_0						
47 D	38.53	9.3384E-03	39.31	137.9	92.00	137.9	V-C	9414.	-9.200	54.69	
1.000	1.000	192.6	0.000	0.000	Ug5_2_8_L_0						
48 D	37.92	8.7358E-03	40.98	132.6	94.00	132.6	V-C	9414.	-9.400	57.02	
1.000	1.000	189.6	0.000	0.000	Ug5_2_8_L_0						
49 D	37.35	8.1537E-03	42.65	127.4	96.00	127.4	V-C	9414.	-9.600	59.35	
1.000	1.000	186.8	0.000	0.000	Ug5_2_8_L_0						
50 D	36.84	7.5919E-03	44.33	122.5	98.00	122.5	V-C	9414.	-9.800	61.67	
1.000	1.000	184.2	0.000	0.000	Ug5_2_8_L_0						
51 D	36.37	7.0500E-03	46.00	117.8	100.00	117.8	V-C	9414.	-10.000	64.00	
1.000	1.000	181.8	0.000	0.000	Ug5_2_8_L_0						
52 D	35.94	6.5276E-03	47.67	113.4	102.0	113.4	V-C	9414.	-10.200	66.33	
1.000	1.000	179.7	0.000	0.000	Ug5_2_8_L_0						
53 D	35.56	6.0244E-03	49.35	109.1	104.0	109.1	V-C	9414.	-10.400	68.65	
1.000	1.000	177.8	0.000	0.000	Ug5_2_8_L_0						
54 D	35.22	5.5396E-03	51.02	105.1	106.0	105.1	V-C	9414.	-10.600	70.98	
1.000	1.000	176.1	0.000	0.000	Ug5_2_8_L_0						
55 D	34.92	5.0729E-03	52.69	101.3	108.0	101.3	V-C	9414.	-10.800	73.31	
1.000	1.000	174.6	0.000	0.000	Ug5_2_8_L_0						
56 D	34.66	4.6234E-03	54.36	97.67	110.0	97.67	V-C	9414.	-11.000	75.64	
1.000	1.000	173.3	0.000	0.000	Ug5_2_8_L_0						
57 D	34.44	4.1904E-03	56.04	94.23	112.0	94.23	V-C	9414.	-11.200	77.96	
1.000	1.000	172.2	0.000	0.000	Ug5_2_8_L_0						
58 D	34.25	3.7734E-03	57.71	90.97	114.0	90.97	V-C	9414.	-11.400	80.29	
1.000	1.000	171.3	0.000	0.000	Ug5_2_8_L_0						
59 D	34.10	3.3714E-03	59.38	87.88	116.0	87.88	V-C	9414.	-11.600	82.62	
1.000	1.000	170.5	0.000	0.000	Ug5_2_8_L_0						
60 D	33.98	2.9837E-03	61.05	84.95	118.0	84.95	V-C	9414.	-11.800	84.95	
1.000	1.000	169.9	0.000	0.000	Ug5_2_8_L_0						
61 D	33.89	2.6093E-03	62.73	82.17	120.0	82.17	V-C	9414.	-12.000	87.27	
1.000	1.000	169.4	0.000	0.000	Ug5_2_8_L_0						
62 D	32.51	2.2475E-03	64.20	72.95	121.8	72.95	V-C	6832.	-12.200	89.60	
1.000	1.000	162.6	0.000	0.000	Ug6_741_743_L_0						
63 D	32.64	1.8972E-03	65.67	71.29	123.6	71.29	V-C	6832.	-12.400	91.93	
1.000	1.000	163.2	0.000	0.000	Ug6_741_743_L_0						
64 D	32.74	1.5577E-03	67.15	69.45	125.4	69.84	UL-RL	2.0495E+04	-12.600	94.25	
1.000	1.000	163.7	0.000	0.000	Ug6_741_743_L_0						
65 D	32.78	1.2279E-03	68.62	67.34	127.2	68.65	UL-RL	2.0495E+04	-12.800	96.58	
1.000	1.000	163.9	0.000	0.000	Ug6_741_743_L_0						
66 D	32.84	9.0703E-04	70.09	65.29	129.0	67.53	UL-RL	2.0495E+04	-13.000	98.91	
1.000	1.000	164.2	0.000	0.000	Ug6_741_743_L_0						
67 D	32.91	5.9415E-04	71.56	63.30	130.8	66.47	UL-RL	2.0495E+04	-13.200	101.2	
1.000	1.000	164.5	0.000	0.000	Ug6_741_743_L_0						
68 D	32.49	2.8839E-04	73.04	58.87	132.6	66.72	UL-RL	2.0495E+04	-13.400	103.6	
1.000	1.000	162.4	0.000	0.000	Ug6_741_743_L_0						
69 D	31.84	-1.1090E-05	74.51	53.31	134.4	67.60	UL-RL	2.0495E+04	-13.600	105.9	
1.000	1.000	159.2	0.000	0.000	Ug6_741_743_L_0						
70 D	31.22	-3.0513E-04	75.98	47.87	136.2	68.49	UL-RL	2.0495E+04	-13.800	108.2	
1.000	1.000	156.1	0.000	0.000	Ug6_741_743_L_0						
71 D	30.62	-5.9452E-04	77.45	42.54	138.0	69.38	UL-RL	2.0495E+04	-14.000	110.5	
1.000	1.000	153.1	0.000	0.000	Ug6_741_743_L_0						
72 D	30.03	-8.8002E-04	78.93	37.30	139.8	70.27	UL-RL	2.0495E+04	-14.200	112.9	
1.000	1.000	150.2	0.000	0.000	Ug6_741_743_L_0						
73 D	29.47	-1.1623E-03	80.40	32.13	141.6	71.16	UL-RL	2.0495E+04	-14.400	115.2	
1.000	1.000	147.3	0.000	0.000	Ug6_741_743_L_0						
74 D	30.06	-1.4421E-03	81.87	32.77	143.4	72.05	ACTIVE	0.000	-14.600	117.5	
1.000	1.000	150.3	0.000	0.000	Ug6_741_743_L_0						
75 D	30.66	-1.7199E-03	83.35	33.46	145.2	72.94	ACTIVE	0.000	-14.800	119.9	
1.000	1.000	153.3	0.000	0.000	Ug6_741_743_L_0						
76 D	31.26	-1.9962E-03	84.82	34.14	147.0	73.84	ACTIVE	0.000	-15.000	122.2	
1.000	1.000	156.3	0.000	0.000	Ug6_741_743_L_0						
77 D	31.87	-2.2715E-03	86.29	34.83	148.8	74.73	ACTIVE	0.000	-15.200	124.5	
1.000	1.000	159.3	0.000	0.000	Ug6_741_743_L_0						
78 D	32.47	-2.5462E-03	87.76	35.52	150.6	75.62	ACTIVE	0.000	-15.400	126.8	
1.000	1.000	162.4	0.000	0.000	Ug6_741_743_L_0						

79 D	33.07	-2.8204E-03	89.24	36.21	152.4	76.51	ACTIVE	0.000	-15.60	129.2
1.000	1.000	165.4	0.000	0.000	Ug6_741_743_L_0					
80 D	33.68	-3.0945E-03	90.71	36.89	154.2	77.40	ACTIVE	0.000	-15.80	131.5
1.000	1.000	168.4	0.000	0.000	Ug6_741_743_L_0					
81 D	17.14	-3.3685E-03	92.18	37.58	156.0	78.29	ACTIVE	0.000	-16.00	133.8
1.000	1.000	171.4	0.000	0.000	Ug6_741_743_L_0					



70	-132.65	132.65	-162.99	136.46
71	-123.78	123.78	-136.46	111.71
72	-113.35	113.35	-111.71	89.038
73	-101.38	101.38	-89.038	68.762
74	-89.029	89.029	-68.762	50.956
75	-76.320	76.320	-50.956	35.692
76	-63.252	63.252	-35.692	23.042
77	-49.827	49.827	-23.042	13.076
78	-36.047	36.047	-13.076	5.8669
79	-21.912	21.912	-5.8669	1.4845
80	-7.4222	7.4222	-1.4845	4.90687E-11

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ITER      0  RNORM = 0.000      RMNORM= 0.000
           RINORM=0.1923E+07  RIMNOR=0.2693E+08
           RENORM= 1.353      REMNOR=0.6420E-17  RATIO =0.8389E-03  TOLER =0.1000E-03  NOT CONVERGED
           RFMAX = 164.4      RMMAX = 730.1
           RTSMAL=0.1000E-02  RMSMAL=0.1000E-02
           RDT  =0.1923E+07  RDR  =0.2693E+08
           RATIOI=0.8389E-03  RATIOR= 0.000
           MAX UN=0.9334E-09  IEQ=   24 NODE    12 DOF   2  X-ROT. F
           MIN UN=-.1554     IEQ=  125 NODE    63 DOF   1  Y-DISPL.F
           NO. OF CONTACT CONSTRAINT VIOLATIONS      0

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ITER      2  RNORM = 0.000      RMNORM= 0.000
           RINORM=0.1923E+07  RIMNOR=0.2693E+08
           RENORM=0.5470E-02  REMNOR=0.9936E-17  RATIO =0.5334E-04  TOLER =0.1000E-03  CONVERGED !
           RFMAX = 164.4      RMMAX = 730.1
           RTSMAL=0.1000E-02  RMSMAL=0.1000E-02
           RDT  =0.1923E+07  RDR  =0.2693E+08
           RATIOI=0.5334E-04  RATIOR= 0.000
           MAX UN=0.1676E-07  IEQ=   21 NODE    11 DOF   1  Y-DISPL.F
           MIN UN=-.7396E-01  IEQ=  145 NODE    73 DOF   1  Y-DISPL.F
           NO. OF CONTACT CONSTRAINT VIOLATIONS      0

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|                PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                                                                            |
|                                                                                                                                            |
|                NewProject.BaseDesignSection_28.SISMICAGEO_1847  |
|                Exe Time :24 May 2018  18:25:50  |
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New Project  
SOLUTION REACHED USING 2 ITERATIONS ON 40

PRINT OUT FOR TIME STEP 7 ( AT TIME 7.000 )

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

	Y-DISPL.F (02)	X-ROT. F (04)	(
1	5.0717994E-02	-4.9463157E-03	
2	4.9728731E-02	-4.9463157E-03	
3	4.8739468E-02	-4.9463082E-03	
4	4.7750210E-02	-4.9462714E-03	
5	4.6760964E-02	-4.9461695E-03	
6	4.5771750E-02	-4.9459530E-03	
7	4.4782595E-02	-4.9455584E-03	
8	4.3793543E-02	-4.9449084E-03	
9	4.2804655E-02	-4.9439118E-03	
10	4.1816009E-02	-4.9424634E-03	
11	4.0827707E-02	-4.9404442E-03	
12	3.9839878E-02	-4.9377214E-03	
13	3.8852675E-02	-4.9341480E-03	
14	3.7866286E-02	-4.9295637E-03	
15	3.6880929E-02	-4.9237937E-03	
16	3.5896860E-02	-4.9166500E-03	
17	3.4914369E-02	-4.9079301E-03	
18	3.3933803E-02	-4.8974183E-03	
19	3.2955537E-02	-4.8848847E-03	
20	3.1980000E-02	-4.8700856E-03	
21	3.1007676E-02	-4.8527638E-03	
22	3.0039085E-02	-4.8326478E-03	
23	2.9074822E-02	-4.8094526E-03	
24	2.8115530E-02	-4.7828796E-03	
25	2.7161915E-02	-4.7526294E-03	
26	2.6214741E-02	-4.7184312E-03	
27	2.5274826E-02	-4.6800571E-03	
28	2.4343014E-02	-4.6373218E-03	
29	2.3420197E-02	-4.5900837E-03	
30	2.2507287E-02	-4.5382440E-03	
31	2.1605210E-02	-4.4817471E-03	
32	2.0714904E-02	-4.4205806E-03	
33	1.9837291E-02	-4.3547743E-03	
34	1.8973299E-02	-4.2844021E-03	
35	1.8123827E-02	-4.2095806E-03	
36	1.7289752E-02	-4.1304694E-03	
37	1.6471916E-02	-4.0472718E-03	
38	1.5671104E-02	-3.9602327E-03	
39	1.4888060E-02	-3.8696414E-03	
40	1.4123462E-02	-3.7758299E-03	
41	1.3377917E-02	-3.6791732E-03	
42	1.2651954E-02	-3.5800895E-03	
43	1.1946013E-02	-3.4790399E-03	
44	1.1260436E-02	-3.3765287E-03	
45	1.0595466E-02	-3.2730995E-03	
46	9.9512245E-03	-3.1692944E-03	
47	9.3277392E-03	-3.0656220E-03	
48	8.7249352E-03	-2.9625575E-03	
49	8.1426461E-03	-2.8605439E-03	
50	7.5806228E-03	-2.7599943E-03	
51	7.0385281E-03	-2.6612910E-03	
52	6.5159468E-03	-2.5647877E-03	
53	6.0124557E-03	-2.4708226E-03	
54	5.5274544E-03	-2.3796874E-03	
55	5.0603731E-03	-2.2916664E-03	
56	4.6105631E-03	-2.2070160E-03	
57	4.1773264E-03	-2.1259709E-03	
58	3.7599201E-03	-2.0487450E-03	
59	3.3575608E-03	-1.9755324E-03	
60	2.9694279E-03	-1.9065086E-03	
61	2.5946676E-03	-1.8418133E-03	
62	2.2323963E-03	-1.7816413E-03	
63	1.8817078E-03	-1.7260003E-03	
64	1.5416938E-03	-1.6748941E-03	
65	1.2114497E-03	-1.6282949E-03	
66	8.9007838E-04	-1.5861578E-03	
67	5.7669342E-04	-1.5484186E-03	
68	2.7042320E-04	-1.5149955E-03	
69	-2.9585480E-05	-1.4857828E-03	
70	-3.2416095E-04	-1.4606354E-03	
71	-6.1409808E-04	-1.4393645E-03	
72	-9.0014973E-04	-1.4217384E-03	
73	-1.1830181E-03	-1.4074817E-03	

74	-1.4633457E-03	-1.3962746E-03
75	-1.7417081E-03	-1.3877711E-03
76	-2.0186107E-03	-1.3816159E-03
77	-2.2944867E-03	-1.3774432E-03
78	-2.5696951E-03	-1.3748770E-03
79	-2.8445188E-03	-1.3735309E-03
80	-3.1191623E-03	-1.3730084E-03
81	-3.3937637E-03	-1.3729029E-03

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|                PARATIEPLUS(TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION *Build date:Jul 11, 2017*                |
|                                                                                                                                            |
|                                                                                                                                            |
|                NewProject.BaseDesignSection_28.SISMICAGEO_l847                                                                            |
|                Exe Time :24 May 2018  18:25:50                                                                                              |
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New Project

STRESS RESULTS FOR GROUP NO. 1

0\_L  
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 81  
CURRENT TIME IS 7.0000

HARDENING 2D SOIL ELEMENT

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

EL * FACTOR	FORCE UFACOR	DISPL-Y Peq	VERTICAL-P Su_a	HORIZON.-P Su_p	MAX-V-P LAYER	MAX-H-P	STATE	STIFFNESS	Z-LEVEL	PORE	E
1 D	0.000	-5.0718E-02	0.000	0.000	0.000	0.000	PASSIVE	0.000	0.000	0.000	
1.000	1.000	0.000	0.000	0.000	Ug5_2_8_L_0						
2 D	0.5251	-4.9729E-02	2.327	0.9529	2.335	1.603	UL-RL	4.4259E+04	-0.2000	1.673	
1.000	1.000	2.626	0.000	0.000	Ug5_2_8_L_0						
3 D	1.011	-4.8739E-02	4.655	1.710	4.711	3.119	UL-RL	4.4259E+04	-0.4000	3.345	
1.000	1.000	5.056	0.000	0.000	Ug5_2_8_L_0						
4 D	1.498	-4.7750E-02	6.982	2.471	7.140	4.509	UL-RL	4.4259E+04	-0.6000	5.018	
1.000	1.000	7.489	0.000	0.000	Ug5_2_8_L_0						
5 D	1.985	-4.6761E-02	9.309	3.234	9.606	5.780	UL-RL	4.4259E+04	-0.8000	6.691	
1.000	1.000	9.925	0.000	0.000	Ug5_2_8_L_0						
6 D	2.472	-4.5772E-02	11.64	3.998	12.09	6.958	UL-RL	4.4259E+04	-1.000	8.364	
1.000	1.000	12.36	0.000	0.000	Ug5_2_8_L_0						
7 D	2.960	-4.4783E-02	13.96	4.762	14.57	8.073	UL-RL	4.4259E+04	-1.200	10.04	
1.000	1.000	14.80	0.000	0.000	Ug5_2_8_L_0						
8 D	3.448	-4.3794E-02	16.29	5.533	17.17	9.145	UL-RL	4.4259E+04	-1.400	11.71	
1.000	1.000	17.24	0.000	0.000	Ug5_2_8_L_0						
9 D	3.937	-4.2805E-02	18.62	6.306	19.79	10.19	UL-RL	4.4259E+04	-1.600	13.38	
1.000	1.000	19.69	0.000	0.000	Ug5_2_8_L_0						
10 D	4.424	-4.1816E-02	20.95	7.065	22.21	11.22	UL-RL	4.4259E+04	-1.800	15.05	
1.000	1.000	22.12	0.000	0.000	Ug5_2_8_L_0						
11 D	4.912	-4.0828E-02	23.27	7.832	24.76	12.23	UL-RL	4.4259E+04	-2.000	16.73	
1.000	1.000	24.56	0.000	0.000	Ug5_2_8_L_0						
12 D	5.399	-3.9840E-02	25.60	8.596	27.27	13.24	UL-RL	4.4259E+04	-2.200	18.40	
1.000	1.000	27.00	0.000	0.000	Ug5_2_8_L_0						
13 D	5.885	-3.8853E-02	27.93	9.351	29.64	14.24	UL-RL	4.4259E+04	-2.400	20.07	
1.000	1.000	29.42	0.000	0.000	Ug5_2_8_L_0						
14 D	6.372	-3.7866E-02	30.25	10.11	32.11	15.24	UL-RL	4.4259E+04	-2.600	21.75	
1.000	1.000	31.86	0.000	0.000	Ug5_2_8_L_0						
15 D	6.858	-3.6881E-02	32.58	10.87	34.57	16.23	UL-RL	4.4259E+04	-2.800	23.42	
1.000	1.000	34.29	0.000	0.000	Ug5_2_8_L_0						
16 D	7.344	-3.5897E-02	34.91	11.63	37.01	17.23	UL-RL	4.4259E+04	-3.000	25.09	
1.000	1.000	36.72	0.000	0.000	Ug5_2_8_L_0						
17 D	7.829	-3.4914E-02	37.24	12.38	39.34	18.22	UL-RL	4.4259E+04	-3.200	26.76	
1.000	1.000	39.14	0.000	0.000	Ug5_2_8_L_0						
18 D	8.315	-3.3934E-02	39.56	13.14	41.77	19.21	UL-RL	4.4259E+04	-3.400	28.44	
1.000	1.000	41.57	0.000	0.000	Ug5_2_8_L_0						
19 D	8.800	-3.2956E-02	41.89	13.89	44.18	20.21	UL-RL	4.4259E+04	-3.600	30.11	
1.000	1.000	44.00	0.000	0.000	Ug5_2_8_L_0						
20 D	9.284	-3.1980E-02	44.22	14.64	46.51	21.20	UL-RL	4.4259E+04	-3.800	31.78	
1.000	1.000	46.42	0.000	0.000	Ug5_2_8_L_0						
21 D	9.770	-3.1008E-02	46.55	15.39	48.91	22.19	UL-RL	4.4259E+04	-4.000	33.45	
1.000	1.000	48.85	0.000	0.000	Ug5_2_8_L_0						
22 D	10.25	-3.0039E-02	48.87	16.14	51.30	23.18	UL-RL	4.4259E+04	-4.200	35.13	
1.000	1.000	51.27	0.000	0.000	Ug5_2_8_L_0						
23 D	10.74	-2.9075E-02	51.20	16.89	53.63	24.18	UL-RL	4.4259E+04	-4.400	36.80	
1.000	1.000	53.69	0.000	0.000	Ug5_2_8_L_0						
24 D	11.22	-2.8116E-02	53.53	17.64	56.01	25.17	UL-RL	4.4259E+04	-4.600	38.47	
1.000	1.000	56.11	0.000	0.000	Ug5_2_8_L_0						
25 D	11.71	-2.7162E-02	55.85	18.39	58.39	26.17	UL-RL	4.4259E+04	-4.800	40.15	
1.000	1.000	58.54	0.000	0.000	Ug5_2_8_L_0						
26 D	12.19	-2.6215E-02	58.18	19.14	60.77	27.16	UL-RL	4.4259E+04	-5.000	41.82	
1.000	1.000	60.96	0.000	0.000	Ug5_2_8_L_0						
27 D	12.68	-2.5275E-02	60.51	19.89	63.09	28.16	UL-RL	4.4259E+04	-5.200	43.49	
1.000	1.000	63.38	0.000	0.000	Ug5_2_8_L_0						
28 D	13.16	-2.4343E-02	62.84	20.63	65.46	29.16	UL-RL	4.4259E+04	-5.400	45.16	
1.000	1.000	65.80	0.000	0.000	Ug5_2_8_L_0						
29 D	13.64	-2.3420E-02	65.16	21.38	67.83	30.15	UL-RL	4.4259E+04	-5.600	46.84	
1.000	1.000	68.22	0.000	0.000	Ug5_2_8_L_0						
30 D	14.13	-2.2507E-02	67.49	22.13	70.15	31.15	UL-RL	4.4259E+04	-5.800	48.51	
1.000	1.000	70.63	0.000	0.000	Ug5_2_8_L_0						
31 D	14.61	-2.1605E-02	69.82	22.87	72.52	32.15	UL-RL	4.4259E+04	-6.000	50.18	
1.000	1.000	73.05	0.000	0.000	Ug5_2_8_L_0						
32 D	15.09	-2.0715E-02	72.15	23.62	74.88	33.15	UL-RL	4.4259E+04	-6.200	51.85	
1.000	1.000	75.47	0.000	0.000	Ug5_2_8_L_0						
33 D	15.58	-1.9837E-02	74.47	24.36	77.20	34.15	UL-RL	4.4259E+04	-6.400	53.53	



1.000	1.000	77.89	0.000	0.000	Ug5_2_8_L_0					
34 D	16.06	-1.8973E-02	76.80	25.11	79.56	35.15	UL-RL	4.4259E+04	-6.600	55.20
1.000	1.000	80.31	0.000	0.000	Ug5_2_8_L_0					
35 D	16.55	-1.8124E-02	79.13	25.86	81.92	36.15	UL-RL	4.4259E+04	-6.800	56.87
1.000	1.000	82.73	0.000	0.000	Ug5_2_8_L_0					
36 D	17.03	-1.7290E-02	81.45	26.60	84.28	37.16	UL-RL	4.4259E+04	-7.000	58.55
1.000	1.000	85.15	0.000	0.000	Ug5_2_8_L_0					
37 D	17.51	-1.6472E-02	83.78	27.35	86.59	38.16	UL-RL	4.4259E+04	-7.200	60.22
1.000	1.000	87.56	0.000	0.000	Ug5_2_8_L_0					
38 D	18.00	-1.5671E-02	86.11	28.09	88.95	39.16	UL-RL	4.4259E+04	-7.400	61.89
1.000	1.000	89.98	0.000	0.000	Ug5_2_8_L_0					
39 D	18.48	-1.4888E-02	88.44	28.84	91.30	40.17	UL-RL	4.4259E+04	-7.600	63.56
1.000	1.000	92.40	0.000	0.000	Ug5_2_8_L_0					
40 D	18.96	-1.4123E-02	90.76	29.59	93.62	41.17	UL-RL	4.4259E+04	-7.800	65.24
1.000	1.000	94.82	0.000	0.000	Ug5_2_8_L_0					
41 D	19.45	-1.3378E-02	93.09	30.33	95.97	42.18	UL-RL	4.4259E+04	-8.000	66.91
1.000	1.000	97.24	0.000	0.000	Ug5_2_8_L_0					
42 D	19.93	-1.2652E-02	95.42	31.08	98.32	43.19	UL-RL	4.4259E+04	-8.200	68.58
1.000	1.000	99.66	0.000	0.000	Ug5_2_8_L_0					
43 D	20.42	-1.1946E-02	97.75	31.83	100.6	44.19	UL-RL	4.4259E+04	-8.400	70.25
1.000	1.000	102.1	0.000	0.000	Ug5_2_8_L_0					
44 D	20.90	-1.1260E-02	100.1	32.58	103.0	45.20	UL-RL	4.4259E+04	-8.600	71.93
1.000	1.000	104.5	0.000	0.000	Ug5_2_8_L_0					
45 D	21.38	-1.0595E-02	102.4	33.32	105.3	46.21	UL-RL	4.4259E+04	-8.800	73.60
1.000	1.000	106.9	0.000	0.000	Ug5_2_8_L_0					
46 D	21.87	-9.9512E-03	104.7	34.07	107.7	47.22	UL-RL	4.4259E+04	-9.000	75.27
1.000	1.000	109.3	0.000	0.000	Ug5_2_8_L_0					
47 D	22.35	-9.3277E-03	107.1	34.82	110.0	48.23	UL-RL	4.4259E+04	-9.200	76.95
1.000	1.000	111.8	0.000	0.000	Ug5_2_8_L_0					
48 D	22.84	-8.7249E-03	109.4	35.57	112.3	49.24	UL-RL	4.4259E+04	-9.400	78.62
1.000	1.000	114.2	0.000	0.000	Ug5_2_8_L_0					
49 D	23.32	-8.1426E-03	111.7	36.32	114.7	50.26	UL-RL	4.4259E+04	-9.600	80.29
1.000	1.000	116.6	0.000	0.000	Ug5_2_8_L_0					
50 D	23.81	-7.5806E-03	114.0	37.07	117.0	51.27	UL-RL	4.4259E+04	-9.800	81.96
1.000	1.000	119.0	0.000	0.000	Ug5_2_8_L_0					
51 D	24.29	-7.0385E-03	116.4	37.83	119.4	52.28	UL-RL	4.4259E+04	-10.000	83.64
1.000	1.000	121.5	0.000	0.000	Ug5_2_8_L_0					
52 D	24.78	-6.5159E-03	118.7	38.58	121.7	53.29	UL-RL	4.4259E+04	-10.200	85.31
1.000	1.000	123.9	0.000	0.000	Ug5_2_8_L_0					
53 D	25.26	-6.0125E-03	121.0	39.33	124.0	54.31	UL-RL	4.4259E+04	-10.400	86.98
1.000	1.000	126.3	0.000	0.000	Ug5_2_8_L_0					
54 D	25.75	-5.5275E-03	123.3	40.09	126.4	55.32	UL-RL	4.4259E+04	-10.600	88.65
1.000	1.000	128.7	0.000	0.000	Ug5_2_8_L_0					
55 D	26.23	-5.0604E-03	125.7	40.85	128.7	56.34	UL-RL	4.4259E+04	-10.800	90.33
1.000	1.000	131.2	0.000	0.000	Ug5_2_8_L_0					
56 D	26.72	-4.6106E-03	128.0	41.60	131.0	57.35	UL-RL	4.4259E+04	-11.000	92.00
1.000	1.000	133.6	0.000	0.000	Ug5_2_8_L_0					
57 D	27.21	-4.1773E-03	130.3	42.36	133.4	58.37	UL-RL	4.4259E+04	-11.200	93.67
1.000	1.000	136.0	0.000	0.000	Ug5_2_8_L_0					
58 D	27.69	-3.7599E-03	132.7	43.12	135.7	59.39	UL-RL	4.4259E+04	-11.400	95.35
1.000	1.000	138.5	0.000	0.000	Ug5_2_8_L_0					
59 D	28.18	-3.3576E-03	135.0	43.88	138.0	60.40	UL-RL	4.4259E+04	-11.600	97.02
1.000	1.000	140.9	0.000	0.000	Ug5_2_8_L_0					
60 D	28.67	-2.9694E-03	137.3	44.64	140.4	61.42	UL-RL	4.4259E+04	-11.800	98.69
1.000	1.000	143.3	0.000	0.000	Ug5_2_8_L_0					
61 D	29.15	-2.5947E-03	139.6	45.40	142.7	62.44	UL-RL	4.4259E+04	-12.000	100.4
1.000	1.000	145.8	0.000	0.000	Ug5_2_8_L_0					
62 D	32.75	-2.2324E-03	141.8	61.73	144.8	63.36	UL-RL	2.1956E+04	-12.200	102.0
1.000	1.000	163.8	0.000	0.000	Ug6_741_743_L_0					
63 D	33.29	-1.8817E-03	143.9	62.74	147.0	64.63	UL-RL	2.1956E+04	-12.400	103.7
1.000	1.000	166.4	0.000	0.000	Ug6_741_743_L_0					
64 D	33.91	-1.5417E-03	146.0	64.15	149.1	65.98	UL-RL	2.1956E+04	-12.600	105.4
1.000	1.000	169.5	0.000	0.000	Ug6_741_743_L_0					
65 D	34.64	-1.2114E-03	148.1	66.15	151.2	67.26	UL-RL	2.1956E+04	-12.800	107.1
1.000	1.000	173.2	0.000	0.000	Ug6_741_743_L_0					
66 D	35.36	-8.9008E-04	150.3	68.10	153.3	68.49	UL-RL	2.1956E+04	-13.000	108.7
1.000	1.000	176.8	0.000	0.000	Ug6_741_743_L_0					
67 D	35.98	-5.7669E-04	152.4	69.49	155.4	69.86	UL-RL	2.1956E+04	-13.200	110.4
1.000	1.000	179.9	0.000	0.000	Ug6_741_743_L_0					
68 D	36.71	-2.7042E-04	154.5	71.45	157.5	71.81	UL-RL	2.1956E+04	-13.400	112.1
1.000	1.000	183.5	0.000	0.000	Ug6_741_743_L_0					
69 D	37.66	2.9585E-05	156.7	74.54	159.6	74.87	UL-RL	2.1956E+04	-13.600	113.7
1.000	1.000	188.3	0.000	0.000	Ug6_741_743_L_0					
70 D	38.52	3.2416E-04	158.8	77.18	161.7	77.49	UL-RL	2.1956E+04	-13.800	115.4
1.000	1.000	192.6	0.000	0.000	Ug6_741_743_L_0					
71 D	39.43	6.1410E-04	160.9	80.05	163.8	80.34	UL-RL	2.1956E+04	-14.000	117.1
1.000	1.000	197.1	0.000	0.000	Ug6_741_743_L_0					
72 D	40.41	9.0015E-04	163.0	83.29	165.9	83.56	UL-RL	2.1956E+04	-14.200	118.8
1.000	1.000	202.1	0.000	0.000	Ug6_741_743_L_0					
73 D	41.39	1.1830E-03	165.2	86.50	168.0	86.76	UL-RL	2.1956E+04	-14.400	120.4
1.000	1.000	206.9	0.000	0.000	Ug6_741_743_L_0					
74 D	42.36	1.4633E-03	167.3	89.69	170.1	89.92	UL-RL	2.1956E+04	-14.600	122.1
1.000	1.000	211.8	0.000	0.000	Ug6_741_743_L_0					
75 D	43.33	1.7417E-03	169.4	92.86	172.2	93.07	UL-RL	2.1956E+04	-14.800	123.8
1.000	1.000	216.6	0.000	0.000	Ug6_741_743_L_0					
76 D	44.29	2.0186E-03	171.5	96.01	174.3	96.21	UL-RL	2.1956E+04	-15.000	125.5
1.000	1.000	221.5	0.000	0.000	Ug6_741_743_L_0					
77 D	45.26	2.2945E-03	173.7	99.16	176.4	99.34	UL-RL	2.1956E+04	-15.200	127.1
1.000	1.000	226.3	0.000	0.000	Ug6_741_743_L_0					
78 D	46.22	2.5697E-03	175.8	102.3	178.5	102.5	UL-RL	2.1956E+04	-15.400	128.8
1.000	1.000	231.1	0.000	0.000	Ug6_741_743_L_0					

79 D	47.18	2.8445E-03	177.9	105.4	180.6	105.6	UL-RL	2.1956E+04	-15.60	130.5
1.000	1.000	235.9	0.000	0.000	Ug6_741_743_L_0					
80 D	48.14	3.1192E-03	180.1	108.6	182.7	108.7	UL-RL	2.1956E+04	-15.80	132.1
1.000	1.000	240.7	0.000	0.000	Ug6_741_743_L_0					
81 D	24.55	3.3938E-03	182.2	111.7	184.8	111.8	UL-RL	2.1956E+04	-16.00	133.8
1.000	1.000	245.5	0.000	0.000	Ug6_741_743_L_0					

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|                PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*                |
|                                                                                                                                            |
|                                                                                                                                            |
|                NewProject.BaseDesignSection_28.SISMICAGEO_1847                                                                                   |
|                Exe Time :24 May 2018  18:25:50                                                                                               |
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New Project

STRESS RESULTS FOR GROUP NO. 2

0\_R :  
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 81  
CURRENT TIME IS 7.0000

HARDENING 2D SOIL ELEMENT

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

EL * FACTOR	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
1	0.000	--	--	--	--	--	REMOVED	--	0.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
2	0.000	--	--	--	--	--	REMOVED	--	-0.2000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
3	0.000	--	--	--	--	--	REMOVED	--	-0.4000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
4	0.000	--	--	--	--	--	REMOVED	--	-0.6000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
5	0.000	--	--	--	--	--	REMOVED	--	-0.8000	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	--	-1.200	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
8	0.000	--	--	--	--	--	REMOVED	--	-1.400	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
9	0.000	--	--	--	--	--	REMOVED	--	-1.600	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
10	0.000	--	--	--	--	--	REMOVED	--	-1.800	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
11	0.000	--	--	--	--	--	REMOVED	--	-2.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
12	0.000	--	--	--	--	--	REMOVED	--	-2.200	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
13	0.000	--	--	--	--	--	REMOVED	--	-2.400	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
14	0.000	--	--	--	--	--	REMOVED	--	-2.600	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
15	0.000	--	--	--	--	--	REMOVED	--	-2.800	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
16	0.000	--	--	--	--	--	REMOVED	--	-3.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
17	0.000	--	--	--	--	--	REMOVED	--	-3.200	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
18	0.000	--	--	--	--	--	REMOVED	--	-3.400	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
19	0.000	--	--	--	--	--	REMOVED	--	-3.600	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
20	0.000	--	--	--	--	--	REMOVED	--	-3.800	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
21	0.000	--	--	--	--	--	REMOVED	--	-4.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
22	0.000	--	--	--	--	--	REMOVED	--	-4.200	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
23	0.000	--	--	--	--	--	REMOVED	--	-4.400	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
24 D	0.9471	2.8116E-02	0.8364	3.572	46.00	65.67	UL-RL	2.8243E+04	-4.600	1.164	
1.000	1.000	4.736	0.000	0.000	Ug5_2_8_L_0						
25 D	2.944	2.7162E-02	2.509	11.23	48.00	73.88	UL-RL	2.8243E+04	-4.800	3.491	
1.000	1.000	14.72	0.000	0.000	Ug5_2_8_L_0						
26 D	4.940	2.6215E-02	4.182	18.88	50.00	81.80	UL-RL	2.8243E+04	-5.000	5.818	
1.000	1.000	24.70	0.000	0.000	Ug5_2_8_L_0						
27 D	6.937	2.5275E-02	5.855	26.54	52.00	79.44	UL-RL	2.8243E+04	-5.200	8.145	
1.000	1.000	34.68	0.000	0.000	Ug5_2_8_L_0						
28 D	8.934	2.4343E-02	7.527	34.20	54.00	77.17	UL-RL	2.8243E+04	-5.400	10.47	
1.000	1.000	44.67	0.000	0.000	Ug5_2_8_L_0						
29 D	10.93	2.3420E-02	9.200	41.85	56.00	75.01	UL-RL	2.8243E+04	-5.600	12.80	
1.000	1.000	54.65	0.000	0.000	Ug5_2_8_L_0						
30 D	12.93	2.2507E-02	10.87	49.51	58.00	72.96	UL-RL	2.8243E+04	-5.800	15.13	
1.000	1.000	64.64	0.000	0.000	Ug5_2_8_L_0						
31 D	14.92	2.1605E-02	12.55	57.16	60.00	78.48	UL-RL	2.8243E+04	-6.000	17.45	
1.000	1.000	74.62	0.000	0.000	Ug5_2_8_L_0						
32 D	16.92	2.0715E-02	14.22	64.82	62.00	86.33	UL-RL	2.8243E+04	-6.200	19.78	
1.000	1.000	84.60	0.000	0.000	Ug5_2_8_L_0						
33 D	18.92	1.9837E-02	15.89	72.48	64.00	94.18	UL-RL	2.8243E+04	-6.400	22.11	

1.000	1.000	94.59	0.000	0.000	Ug5_2_8_L_0					
34 D	20.91	1.8973E-02	17.56	80.13	66.00	102.0	UL-RL	2.8243E+04	-6.600	24.44
1.000	1.000	104.6	0.000	0.000	Ug5_2_8_L_0					
35 D	22.91	1.8124E-02	19.24	87.79	68.00	109.9	UL-RL	2.8243E+04	-6.800	26.76
1.000	1.000	114.6	0.000	0.000	Ug5_2_8_L_0					
36 D	24.91	1.7290E-02	20.91	95.45	70.00	117.7	UL-RL	2.8243E+04	-7.000	29.09
1.000	1.000	124.5	0.000	0.000	Ug5_2_8_L_0					
37 D	26.90	1.6472E-02	22.58	103.1	72.00	125.4	UL-RL	2.8243E+04	-7.200	31.42
1.000	1.000	134.5	0.000	0.000	Ug5_2_8_L_0					
38 D	28.90	1.5671E-02	24.25	110.8	74.00	120.9	UL-RL	2.8243E+04	-7.400	33.75
1.000	1.000	144.5	0.000	0.000	Ug5_2_8_L_0					
39 D	30.90	1.4888E-02	25.93	118.4	76.00	118.7	UL-RL	2.8243E+04	-7.600	36.07
1.000	1.000	154.5	0.000	0.000	Ug5_2_8_L_0					
40 D	32.89	1.4123E-02	27.60	126.1	78.00	126.4	UL-RL	2.8243E+04	-7.800	38.40
1.000	1.000	164.5	0.000	0.000	Ug5_2_8_L_0					
41 D	34.89	1.3378E-02	29.27	133.7	80.00	134.0	UL-RL	2.8243E+04	-8.000	40.73
1.000	1.000	174.5	0.000	0.000	Ug5_2_8_L_0					
42 D	36.89	1.2652E-02	30.95	141.4	82.00	141.7	UL-RL	2.8243E+04	-8.200	43.05
1.000	1.000	184.4	0.000	0.000	Ug5_2_8_L_0					
43 D	38.88	1.1946E-02	32.62	149.0	84.00	149.3	UL-RL	2.8243E+04	-8.400	45.38
1.000	1.000	194.4	0.000	0.000	Ug5_2_8_L_0					
44 D	40.59	1.1260E-02	34.29	155.3	86.00	155.6	UL-RL	2.8243E+04	-8.600	47.71
1.000	1.000	203.0	0.000	0.000	Ug5_2_8_L_0					
45 D	39.84	1.0595E-02	35.96	149.1	88.00	149.4	UL-RL	2.8243E+04	-8.800	50.04
1.000	1.000	199.2	0.000	0.000	Ug5_2_8_L_0					
46 D	39.13	9.9512E-03	37.64	143.3	90.00	143.6	UL-RL	2.8243E+04	-9.000	52.36
1.000	1.000	195.6	0.000	0.000	Ug5_2_8_L_0					
47 D	38.47	9.3277E-03	39.31	137.6	92.00	137.9	UL-RL	2.8243E+04	-9.200	54.69
1.000	1.000	192.3	0.000	0.000	Ug5_2_8_L_0					
48 D	37.85	8.7249E-03	40.98	132.3	94.00	132.6	UL-RL	2.8243E+04	-9.400	57.02
1.000	1.000	189.3	0.000	0.000	Ug5_2_8_L_0					
49 D	37.29	8.1426E-03	42.65	127.1	96.00	127.4	UL-RL	2.8243E+04	-9.600	59.35
1.000	1.000	186.4	0.000	0.000	Ug5_2_8_L_0					
50 D	36.77	7.5806E-03	44.33	122.2	98.00	122.5	UL-RL	2.8243E+04	-9.800	61.67
1.000	1.000	183.9	0.000	0.000	Ug5_2_8_L_0					
51 D	36.30	7.0385E-03	46.00	117.5	100.00	117.8	UL-RL	2.8243E+04	-10.000	64.00
1.000	1.000	181.5	0.000	0.000	Ug5_2_8_L_0					
52 D	35.87	6.5159E-03	47.67	113.0	102.0	113.4	UL-RL	2.8243E+04	-10.200	66.33
1.000	1.000	179.4	0.000	0.000	Ug5_2_8_L_0					
53 D	35.49	6.0125E-03	49.35	108.8	104.0	109.1	UL-RL	2.8243E+04	-10.400	68.65
1.000	1.000	177.5	0.000	0.000	Ug5_2_8_L_0					
54 D	35.15	5.5275E-03	51.02	104.8	106.0	105.1	UL-RL	2.8243E+04	-10.600	70.98
1.000	1.000	175.8	0.000	0.000	Ug5_2_8_L_0					
55 D	34.85	5.0604E-03	52.69	100.9	108.0	101.3	UL-RL	2.8243E+04	-10.800	73.31
1.000	1.000	174.3	0.000	0.000	Ug5_2_8_L_0					
56 D	34.59	4.6106E-03	54.36	97.31	110.0	97.67	UL-RL	2.8243E+04	-11.000	75.64
1.000	1.000	172.9	0.000	0.000	Ug5_2_8_L_0					
57 D	34.37	4.1773E-03	56.04	93.86	112.0	94.23	UL-RL	2.8243E+04	-11.200	77.96
1.000	1.000	171.8	0.000	0.000	Ug5_2_8_L_0					
58 D	34.18	3.7599E-03	57.71	90.59	114.0	90.97	UL-RL	2.8243E+04	-11.400	80.29
1.000	1.000	170.9	0.000	0.000	Ug5_2_8_L_0					
59 D	34.02	3.3576E-03	59.38	87.49	116.0	87.88	UL-RL	2.8243E+04	-11.600	82.62
1.000	1.000	170.1	0.000	0.000	Ug5_2_8_L_0					
60 D	33.90	2.9694E-03	61.05	84.55	118.0	84.95	UL-RL	2.8243E+04	-11.800	84.95
1.000	1.000	169.5	0.000	0.000	Ug5_2_8_L_0					
61 D	33.81	2.5947E-03	62.73	81.76	120.0	82.17	UL-RL	2.8243E+04	-12.000	87.27
1.000	1.000	169.0	0.000	0.000	Ug5_2_8_L_0					
62 D	32.45	2.2324E-03	64.20	72.64	121.8	72.95	UL-RL	2.0495E+04	-12.200	89.60
1.000	1.000	162.2	0.000	0.000	Ug6_741_743_L_0					
63 D	32.58	1.8817E-03	65.67	70.97	123.6	71.29	UL-RL	2.0495E+04	-12.400	91.93
1.000	1.000	162.9	0.000	0.000	Ug6_741_743_L_0					
64 D	32.68	1.5417E-03	67.15	69.13	125.4	69.84	UL-RL	2.0495E+04	-12.600	94.25
1.000	1.000	163.4	0.000	0.000	Ug6_741_743_L_0					
65 D	32.72	1.2114E-03	68.62	67.00	127.2	68.65	UL-RL	2.0495E+04	-12.800	96.58
1.000	1.000	163.6	0.000	0.000	Ug6_741_743_L_0					
66 D	32.77	8.9008E-04	70.09	64.94	129.0	67.53	UL-RL	2.0495E+04	-13.000	98.91
1.000	1.000	163.8	0.000	0.000	Ug6_741_743_L_0					
67 D	32.84	5.7669E-04	71.56	62.94	130.8	66.47	UL-RL	2.0495E+04	-13.200	101.2
1.000	1.000	164.2	0.000	0.000	Ug6_741_743_L_0					
68 D	32.41	2.7042E-04	73.04	58.51	132.6	66.72	UL-RL	2.0495E+04	-13.400	103.6
1.000	1.000	162.1	0.000	0.000	Ug6_741_743_L_0					
69 D	31.76	-2.9585E-05	74.51	52.93	134.4	67.60	UL-RL	2.0495E+04	-13.600	105.9
1.000	1.000	158.8	0.000	0.000	Ug6_741_743_L_0					
70 D	31.14	-3.2416E-04	75.98	47.48	136.2	68.49	UL-RL	2.0495E+04	-13.800	108.2
1.000	1.000	155.7	0.000	0.000	Ug6_741_743_L_0					
71 D	30.54	-6.1410E-04	77.45	42.14	138.0	69.38	UL-RL	2.0495E+04	-14.000	110.5
1.000	1.000	152.7	0.000	0.000	Ug6_741_743_L_0					
72 D	29.95	-9.0015E-04	78.93	36.89	139.8	70.27	UL-RL	2.0495E+04	-14.200	112.9
1.000	1.000	149.8	0.000	0.000	Ug6_741_743_L_0					
73 D	29.46	-1.1830E-03	80.40	32.08	141.6	71.16	ACTIVE	0.000	-14.400	115.2
1.000	1.000	147.3	0.000	0.000	Ug6_741_743_L_0					
74 D	30.06	-1.4633E-03	81.87	32.77	143.4	72.05	ACTIVE	0.000	-14.600	117.5
1.000	1.000	150.3	0.000	0.000	Ug6_741_743_L_0					
75 D	30.66	-1.7417E-03	83.35	33.46	145.2	72.94	ACTIVE	0.000	-14.800	119.9
1.000	1.000	153.3	0.000	0.000	Ug6_741_743_L_0					
76 D	31.26	-2.0186E-03	84.82	34.14	147.0	73.84	ACTIVE	0.000	-15.000	122.2
1.000	1.000	156.3	0.000	0.000	Ug6_741_743_L_0					
77 D	31.87	-2.2945E-03	86.29	34.83	148.8	74.73	ACTIVE	0.000	-15.200	124.5
1.000	1.000	159.3	0.000	0.000	Ug6_741_743_L_0					
78 D	32.47	-2.5697E-03	87.76	35.52	150.6	75.62	ACTIVE	0.000	-15.400	126.8
1.000	1.000	162.4	0.000	0.000	Ug6_741_743_L_0					

79 D	33.07	-2.8445E-03	89.24	36.21	152.4	76.51	ACTIVE	0.000	-15.60	129.2
1.000	1.000	165.4	0.000	0.000	Ug6_741_743_L_0					
80 D	33.68	-3.1192E-03	90.71	36.89	154.2	77.40	ACTIVE	0.000	-15.80	131.5
1.000	1.000	168.4	0.000	0.000	Ug6_741_743_L_0					
81 D	17.14	-3.3938E-03	92.18	37.58	156.0	78.29	ACTIVE	0.000	-16.00	133.8
1.000	1.000	171.4	0.000	0.000	Ug6_741_743_L_0					



70	-132.47	132.47	-162.68	136.18
71	-123.58	123.58	-136.18	111.47
72	-113.12	113.12	-111.47	88.843
73	-101.12	101.12	-88.843	68.619
74	-88.816	88.816	-68.619	50.856
75	-76.150	76.150	-50.856	35.626
76	-63.122	63.122	-35.626	23.001
77	-49.733	49.733	-23.001	13.055
78	-35.984	35.984	-13.055	5.8579
79	-21.877	21.877	-5.8579	1.4824
80	-7.4119	7.4119	-1.4824	3.36642E-11

```
+-----+
|          PARATIEPLUS(TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION  *Build date:Jul 11, 2017*          |
|                                                                                                                                            |
|                                                                                                                                            |
|                                                                                                                                            |
|          NewProject.BaseDesignSection_28.SISMICAGEO_1847          |
|          Exe Time :24 May 2018          18:25:50          |
+-----+
```

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

S U M M A R Y

STEP		NO. OF ITERATIONS
1	CONVERGENCE :YES	2
2	CONVERGENCE :YES	5
3	CONVERGENCE :YES	5
4	CONVERGENCE :YES	5
5	CONVERGENCE :YES	5
6	CONVERGENCE :YES	6
7	CONVERGENCE :YES	2

END OF PROCESS FOR PROBLEM

New Project

NONLINEAR SOLUTION CPU TIME .... 0.07 [sec]

DATABASE CREATION CPU TIME..... 0.27 [sec]



## 5. VERIFICHE PALANCOLE PROTEZIONE SCAVI VI06



### *Report di Calcolo*

Nome Progetto: New Project

Autore: Ingegnere

Jobname: Z:\01 COM\2017-010-ANAS-Pedemontana Piemontese\02-Bozze e varie\04\_Sottofondazioni\Paratie provvisionali\palancola AZ36 scavo plinti con tura h5,5m - con accidentale - 10kPa - berma come carico.pplus

Data: 24/05/2018 18:24:09

Design Section: Base Design Section

## Descrizione del Software

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

# Descrizione della Stratigrafia e degli Strati di Terreno

Tipo : HORIZONTAL

Quota : 0 m

OCR : 1

Tipo : HORIZONTAL

Quota : -12 m

OCR : 1

Tipo : HORIZONTAL

Quota : -18 m

OCR : 1

## Descrizione Pareti

X : 0 m

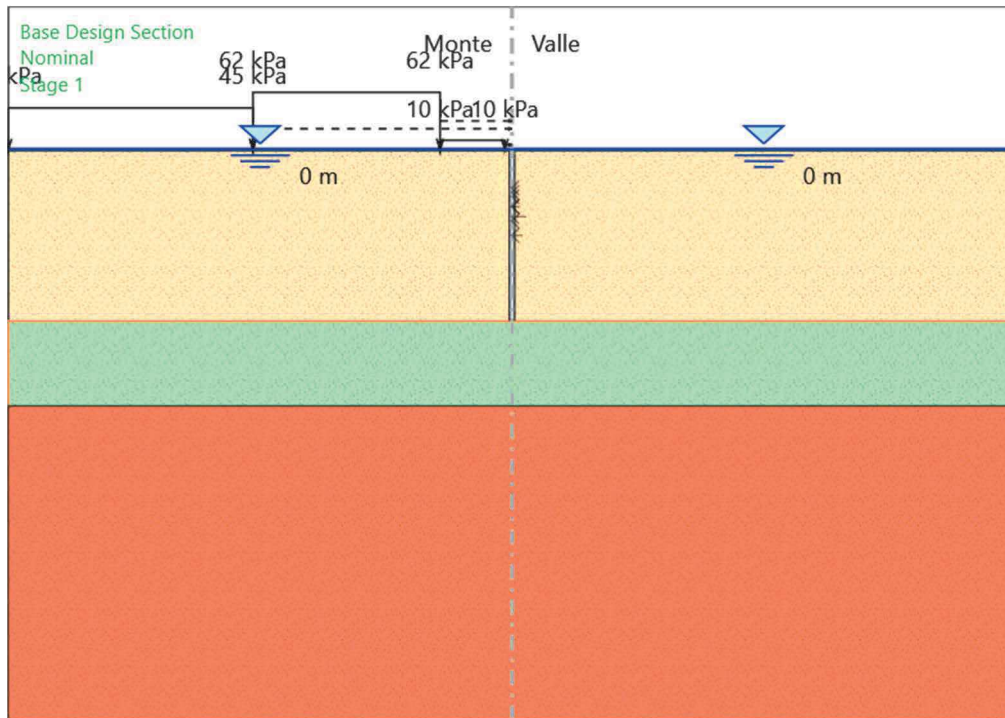
Quota in alto : 0 m

Quota di fondo : -12 m

Muro di sinistra

# Fasi di Calcolo

## Stage 1



## Stage 1

Elementi strutturali

Paratia : WallElement

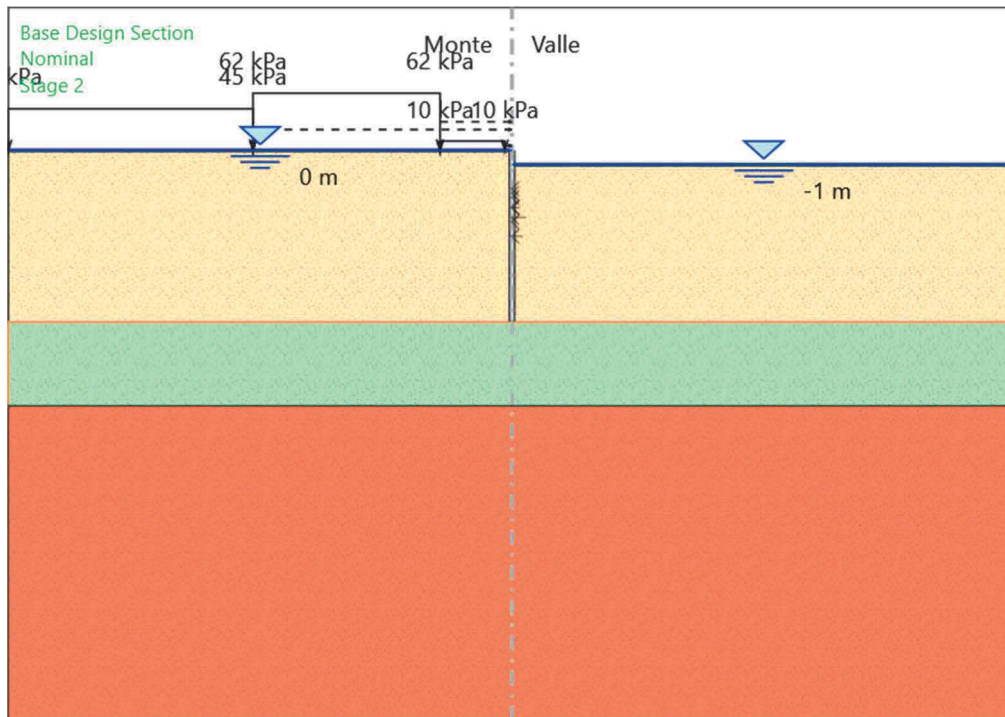
X : 0 m

Quota in alto : 0 m

Quota di fondo : -12 m

Sezione : Default Section

## Stage 2



## Stage 2

Elementi strutturali

Paratia : WallElement

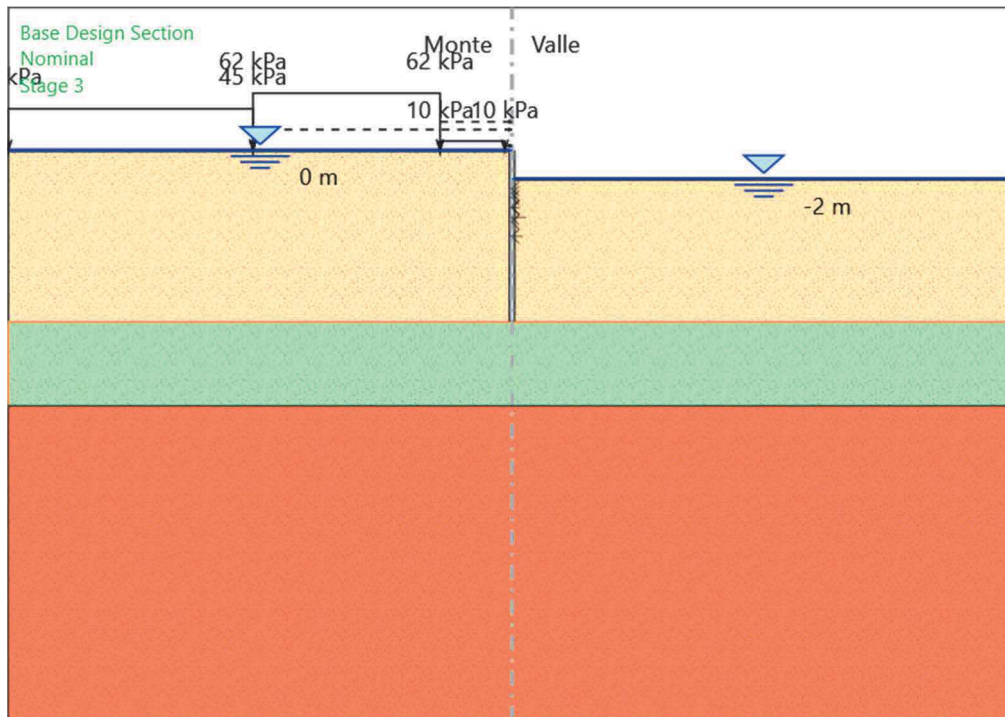
X : 0 m

Quota in alto : 0 m

Quota di fondo : -12 m

Sezione : Default Section

### Stage 3



### Stage 3

Elementi strutturali

Paratia : WallElement

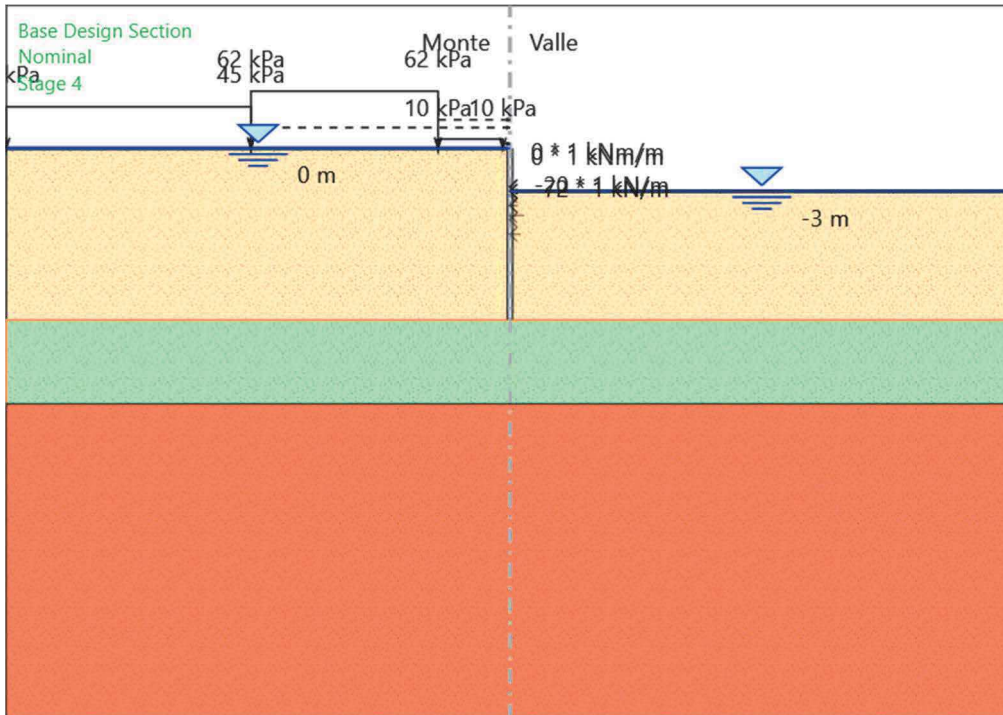
X : 0 m

Quota in alto : 0 m

Quota di fondo : -12 m

Sezione : Default Section

## Stage 4



## Stage 4

Elementi strutturali

Paratia : WallElement

X : 0 m

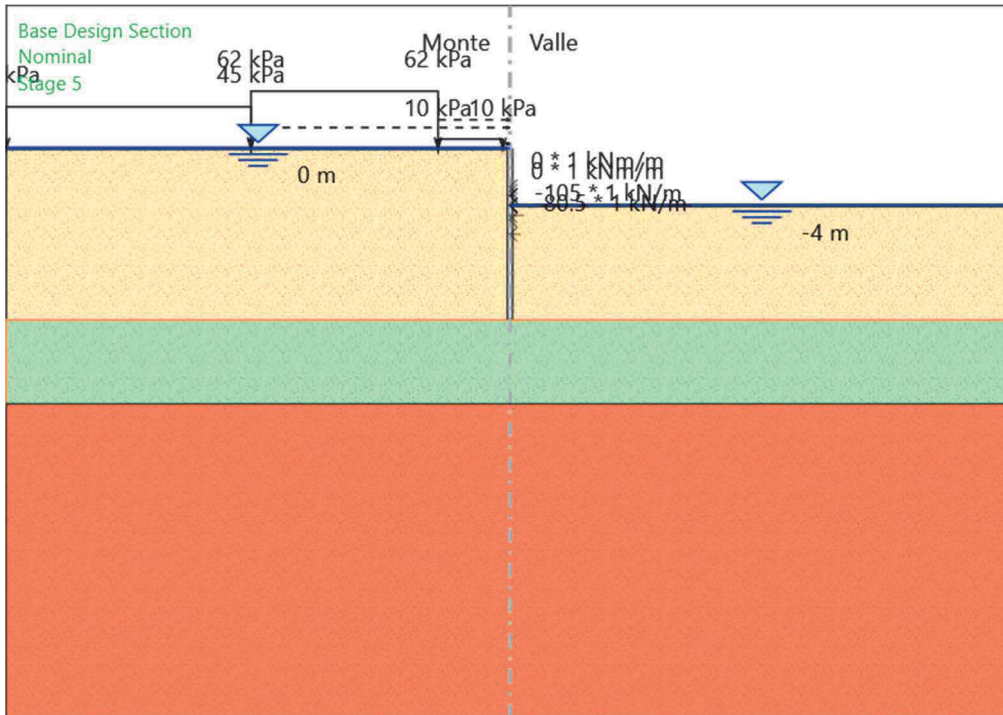
Quota in alto : 0 m

Quota di fondo : -12 m

Sezione : Default Section



## Stage 5



## Stage 5

Elementi strutturali

Paratia : WallElement

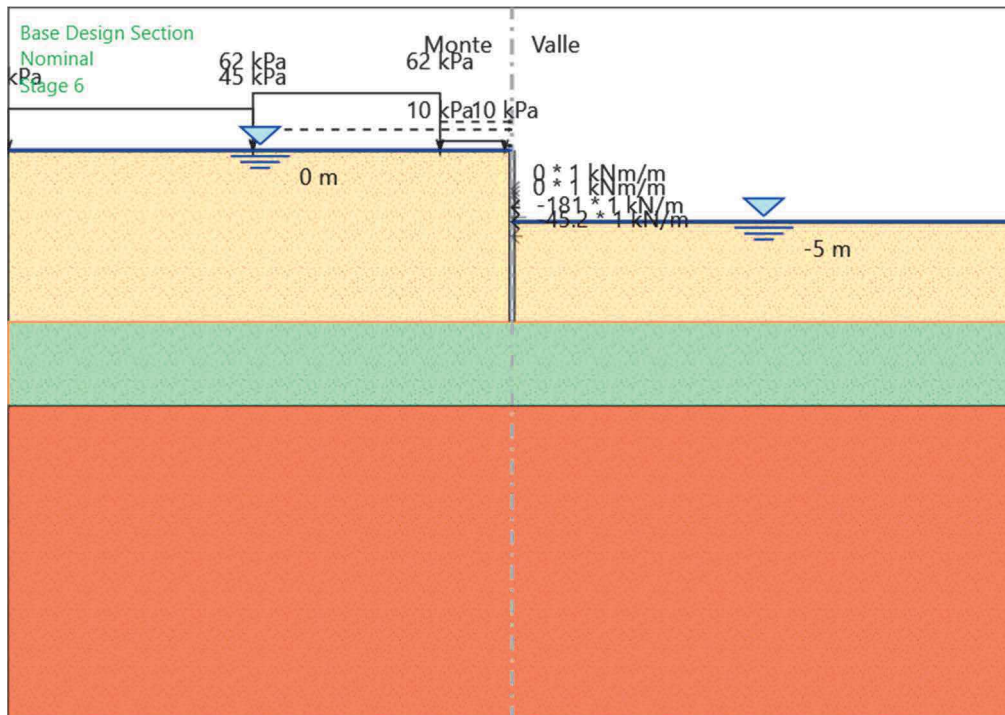
X : 0 m

Quota in alto : 0 m

Quota di fondo : -12 m

Sezione : Default Section

## Stage 6



## Stage 6

Elementi strutturali

Paratia : WallElement

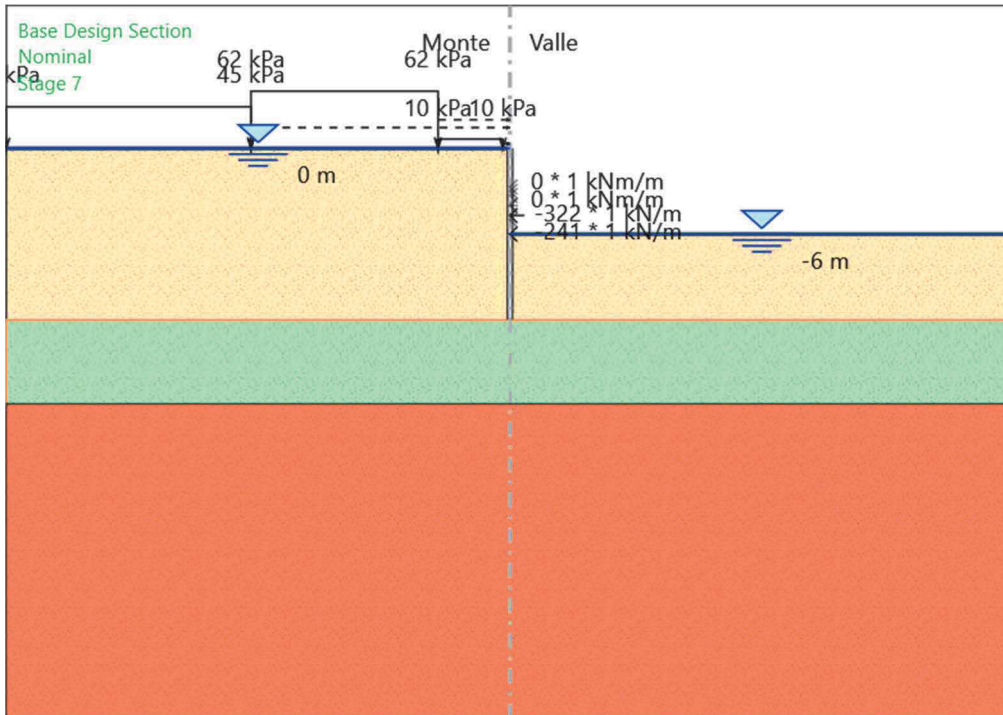
X :  $0$  m

Quota in alto :  $0$  m

Quota di fondo :  $-12$  m

Sezione : Default Section

## Stage 7



## Stage 7

Elementi strutturali

Paratia : WallElement

X : 0 m

Quota in alto : 0 m

Quota di fondo : -12 m

Sezione : Default Section

# 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	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
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

Design Assumption: Nominal Tipo Risultato: Spostamento Muro: LEFT		
Stage	Z (m)	Spostamento (mm)
Stage 1	-12	0

## Tabella Spostamento Nominal - LEFT Stage: Stage 2

Design Assumption: Nominal Tipo Risultato: Spostamento Muro: LEFT		
Stage	Z (m)	Spostamento (mm)
Stage 2	0	0.21
Stage 2	-0.2	0.2
Stage 2	-0.4	0.18
Stage 2	-0.6	0.17
Stage 2	-0.8	0.16
Stage 2	-1	0.14
Stage 2	-1.2	0.13
Stage 2	-1.4	0.12
Stage 2	-1.6	0.1
Stage 2	-1.8	0.09
Stage 2	-2	0.08
Stage 2	-2.2	0.07
Stage 2	-2.4	0.06
Stage 2	-2.6	0.06
Stage 2	-2.8	0.05
Stage 2	-3	0.05
Stage 2	-3.2	0.04
Stage 2	-3.4	0.04
Stage 2	-3.6	0.04
Stage 2	-3.8	0.03
Stage 2	-4	0.03
Stage 2	-4.2	0.03
Stage 2	-4.4	0.03
Stage 2	-4.6	0.03
Stage 2	-4.8	0.03
Stage 2	-5	0.03
Stage 2	-5.2	0.03
Stage 2	-5.4	0.03
Stage 2	-5.6	0.03
Stage 2	-5.8	0.03
Stage 2	-6	0.03
Stage 2	-6.2	0.03
Stage 2	-6.4	0.03
Stage 2	-6.6	0.03
Stage 2	-6.8	0.03
Stage 2	-7	0.03
Stage 2	-7.2	0.03
Stage 2	-7.4	0.03
Stage 2	-7.6	0.03
Stage 2	-7.8	0.03
Stage 2	-8	0.03
Stage 2	-8.2	0.03
Stage 2	-8.4	0.03
Stage 2	-8.6	0.03
Stage 2	-8.8	0.03
Stage 2	-9	0.03
Stage 2	-9.2	0.03
Stage 2	-9.4	0.03
Stage 2	-9.6	0.03
Stage 2	-9.8	0.02
Stage 2	-10	0.02
Stage 2	-10.2	0.02
Stage 2	-10.4	0.02
Stage 2	-10.6	0.02
Stage 2	-10.8	0.02
Stage 2	-11	0.02
Stage 2	-11.2	0.02
Stage 2	-11.4	0.02
Stage 2	-11.6	0.02
Stage 2	-11.8	0.02
Stage 2	-12	0.02

### Tabella Spostamento Nominal - LEFT Stage: Stage 3

Design Assumption: Nominal Tipo Risultato: Spostamento			Muro: LEFT
Stage	Z (m)	Spostamento (mm)	
Stage 3	0	2.99	
Stage 3	-0.2	2.85	
Stage 3	-0.4	2.71	
Stage 3	-0.6	2.57	
Stage 3	-0.8	2.42	
Stage 3	-1	2.28	
Stage 3	-1.2	2.14	
Stage 3	-1.4	2	
Stage 3	-1.6	1.86	
Stage 3	-1.8	1.72	
Stage 3	-2	1.58	
Stage 3	-2.2	1.45	
Stage 3	-2.4	1.32	
Stage 3	-2.6	1.19	
Stage 3	-2.8	1.07	
Stage 3	-3	0.95	
Stage 3	-3.2	0.84	
Stage 3	-3.4	0.74	
Stage 3	-3.6	0.64	
Stage 3	-3.8	0.55	
Stage 3	-4	0.47	
Stage 3	-4.2	0.4	
Stage 3	-4.4	0.33	
Stage 3	-4.6	0.28	
Stage 3	-4.8	0.23	
Stage 3	-5	0.19	
Stage 3	-5.2	0.15	
Stage 3	-5.4	0.12	
Stage 3	-5.6	0.1	
Stage 3	-5.8	0.08	
Stage 3	-6	0.06	
Stage 3	-6.2	0.05	
Stage 3	-6.4	0.05	
Stage 3	-6.6	0.04	
Stage 3	-6.8	0.04	
Stage 3	-7	0.04	
Stage 3	-7.2	0.04	
Stage 3	-7.4	0.04	
Stage 3	-7.6	0.04	
Stage 3	-7.8	0.04	
Stage 3	-8	0.05	
Stage 3	-8.2	0.05	
Stage 3	-8.4	0.05	
Stage 3	-8.6	0.05	
Stage 3	-8.8	0.06	
Stage 3	-9	0.06	
Stage 3	-9.2	0.06	
Stage 3	-9.4	0.06	
Stage 3	-9.6	0.06	
Stage 3	-9.8	0.06	
Stage 3	-10	0.06	
Stage 3	-10.2	0.06	
Stage 3	-10.4	0.07	
Stage 3	-10.6	0.07	
Stage 3	-10.8	0.07	
Stage 3	-11	0.07	
Stage 3	-11.2	0.07	
Stage 3	-11.4	0.06	
Stage 3	-11.6	0.06	
Stage 3	-11.8	0.06	
Stage 3	-12	0.06	

## Tabella Spostamento Nominal - LEFT Stage: Stage 4

Design Assumption: Nominal Tipo Risultato: Spostamento Muro: LEFT		
Stage	Z (m)	Spostamento (mm)
Stage 4	0	2.96
Stage 4	-0.2	2.82
Stage 4	-0.4	2.67
Stage 4	-0.6	2.52
Stage 4	-0.8	2.38
Stage 4	-1	2.23
Stage 4	-1.2	2.09
Stage 4	-1.4	1.94
Stage 4	-1.6	1.8
Stage 4	-1.8	1.66
Stage 4	-2	1.52
Stage 4	-2.2	1.38
Stage 4	-2.4	1.25
Stage 4	-2.6	1.13
Stage 4	-2.8	1.01
Stage 4	-3	0.9
Stage 4	-3.2	0.8
Stage 4	-3.4	0.7
Stage 4	-3.6	0.62
Stage 4	-3.8	0.54
Stage 4	-4	0.48
Stage 4	-4.2	0.42
Stage 4	-4.4	0.36
Stage 4	-4.6	0.32
Stage 4	-4.8	0.28
Stage 4	-5	0.24
Stage 4	-5.2	0.22
Stage 4	-5.4	0.19
Stage 4	-5.6	0.18
Stage 4	-5.8	0.16
Stage 4	-6	0.15
Stage 4	-6.2	0.14
Stage 4	-6.4	0.14
Stage 4	-6.6	0.13
Stage 4	-6.8	0.13
Stage 4	-7	0.13
Stage 4	-7.2	0.13
Stage 4	-7.4	0.13
Stage 4	-7.6	0.13
Stage 4	-7.8	0.13
Stage 4	-8	0.13
Stage 4	-8.2	0.14
Stage 4	-8.4	0.14
Stage 4	-8.6	0.14
Stage 4	-8.8	0.14
Stage 4	-9	0.14
Stage 4	-9.2	0.14
Stage 4	-9.4	0.14
Stage 4	-9.6	0.14
Stage 4	-9.8	0.14
Stage 4	-10	0.14
Stage 4	-10.2	0.14
Stage 4	-10.4	0.13
Stage 4	-10.6	0.13
Stage 4	-10.8	0.13
Stage 4	-11	0.13
Stage 4	-11.2	0.13
Stage 4	-11.4	0.13
Stage 4	-11.6	0.12
Stage 4	-11.8	0.12
Stage 4	-12	0.12



## Tabella Spostamento Nominal - LEFT Stage: Stage 5

Design Assumption: Nominal Tipo Risultato: Spostamento Muro: LEFT		
Stage	Z (m)	Spostamento (mm)
Stage 5	0	3.01
Stage 5	-0.2	2.85
Stage 5	-0.4	2.7
Stage 5	-0.6	2.54
Stage 5	-0.8	2.39
Stage 5	-1	2.23
Stage 5	-1.2	2.08
Stage 5	-1.4	1.92
Stage 5	-1.6	1.77
Stage 5	-1.8	1.62
Stage 5	-2	1.47
Stage 5	-2.2	1.33
Stage 5	-2.4	1.18
Stage 5	-2.6	1.05
Stage 5	-2.8	0.92
Stage 5	-3	0.8
Stage 5	-3.2	0.69
Stage 5	-3.4	0.59
Stage 5	-3.6	0.5
Stage 5	-3.8	0.43
Stage 5	-4	0.36
Stage 5	-4.2	0.31
Stage 5	-4.4	0.27
Stage 5	-4.6	0.24
Stage 5	-4.8	0.22
Stage 5	-5	0.2
Stage 5	-5.2	0.19
Stage 5	-5.4	0.19
Stage 5	-5.6	0.19
Stage 5	-5.8	0.19
Stage 5	-6	0.19
Stage 5	-6.2	0.2
Stage 5	-6.4	0.2
Stage 5	-6.6	0.21
Stage 5	-6.8	0.22
Stage 5	-7	0.22
Stage 5	-7.2	0.23
Stage 5	-7.4	0.24
Stage 5	-7.6	0.24
Stage 5	-7.8	0.25
Stage 5	-8	0.25
Stage 5	-8.2	0.26
Stage 5	-8.4	0.26
Stage 5	-8.6	0.26
Stage 5	-8.8	0.26
Stage 5	-9	0.26
Stage 5	-9.2	0.26
Stage 5	-9.4	0.26
Stage 5	-9.6	0.25
Stage 5	-9.8	0.25
Stage 5	-10	0.25
Stage 5	-10.2	0.24
Stage 5	-10.4	0.24
Stage 5	-10.6	0.24
Stage 5	-10.8	0.23
Stage 5	-11	0.23
Stage 5	-11.2	0.22
Stage 5	-11.4	0.22
Stage 5	-11.6	0.21
Stage 5	-11.8	0.21
Stage 5	-12	0.21

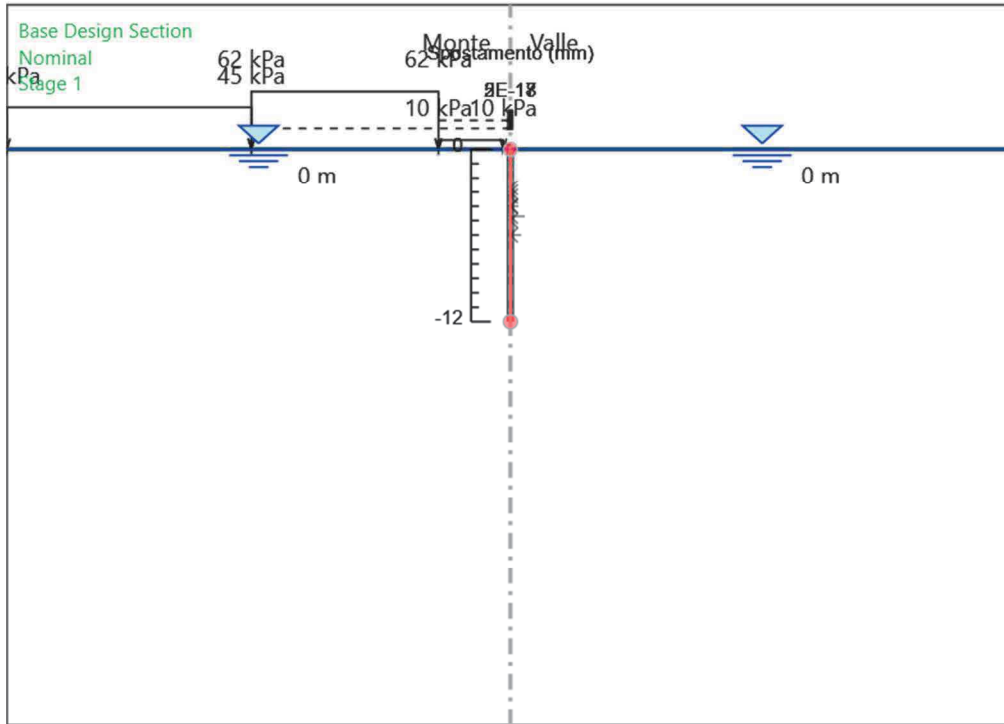
## Tabella Spostamento Nominal - LEFT Stage: Stage 6

Design Assumption: Nominal Tipo Risultato: Spostamento Muro: LEFT		
Stage	Z (m)	Spostamento (mm)
Stage 6	0	3.35
Stage 6	-0.2	3.18
Stage 6	-0.4	3.02
Stage 6	-0.6	2.85
Stage 6	-0.8	2.69
Stage 6	-1	2.52
Stage 6	-1.2	2.36
Stage 6	-1.4	2.2
Stage 6	-1.6	2.03
Stage 6	-1.8	1.87
Stage 6	-2	1.71
Stage 6	-2.2	1.55
Stage 6	-2.4	1.4
Stage 6	-2.6	1.25
Stage 6	-2.8	1.1
Stage 6	-3	0.96
Stage 6	-3.2	0.83
Stage 6	-3.4	0.7
Stage 6	-3.6	0.59
Stage 6	-3.8	0.49
Stage 6	-4	0.4
Stage 6	-4.2	0.34
Stage 6	-4.4	0.28
Stage 6	-4.6	0.25
Stage 6	-4.8	0.22
Stage 6	-5	0.2
Stage 6	-5.2	0.2
Stage 6	-5.4	0.2
Stage 6	-5.6	0.2
Stage 6	-5.8	0.21
Stage 6	-6	0.23
Stage 6	-6.2	0.24
Stage 6	-6.4	0.26
Stage 6	-6.6	0.28
Stage 6	-6.8	0.3
Stage 6	-7	0.31
Stage 6	-7.2	0.33
Stage 6	-7.4	0.34
Stage 6	-7.6	0.36
Stage 6	-7.8	0.37
Stage 6	-8	0.38
Stage 6	-8.2	0.39
Stage 6	-8.4	0.39
Stage 6	-8.6	0.4
Stage 6	-8.8	0.4
Stage 6	-9	0.4
Stage 6	-9.2	0.4
Stage 6	-9.4	0.4
Stage 6	-9.6	0.4
Stage 6	-9.8	0.39
Stage 6	-10	0.39
Stage 6	-10.2	0.39
Stage 6	-10.4	0.38
Stage 6	-10.6	0.38
Stage 6	-10.8	0.37
Stage 6	-11	0.36
Stage 6	-11.2	0.36
Stage 6	-11.4	0.35
Stage 6	-11.6	0.34
Stage 6	-11.8	0.34
Stage 6	-12	0.33

## Tabella Spostamento Nominal - LEFT Stage: Stage 7

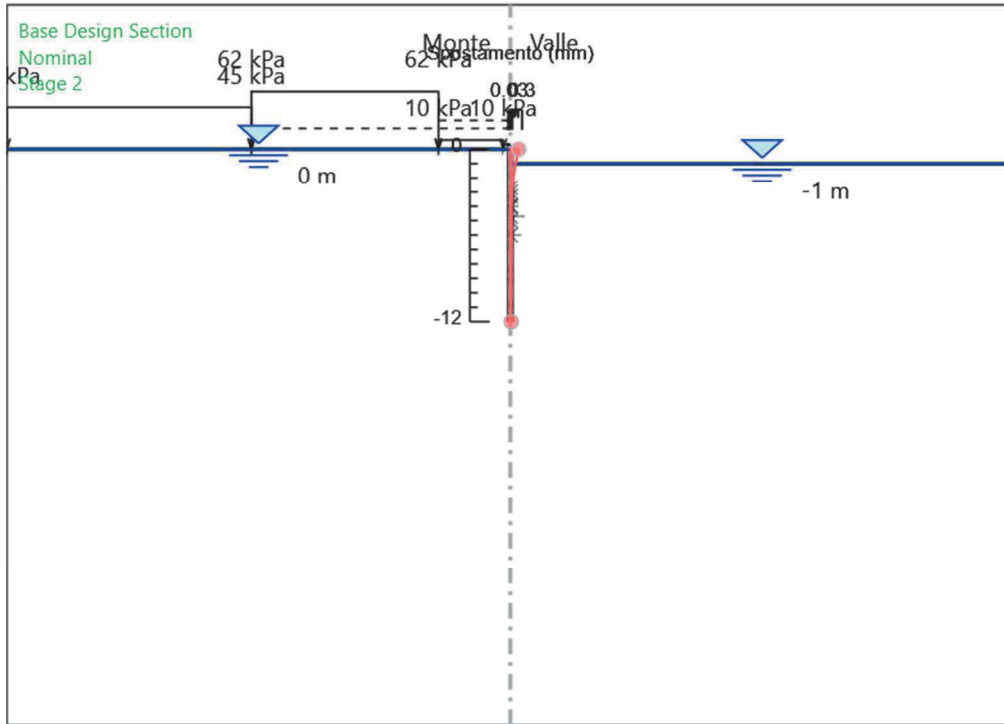
Design Assumption: Nominal Tipo Risultato: Spostamento Muro: LEFT		
Stage	Z (m)	Spostamento (mm)
Stage 7	0	5.21
Stage 7	-0.2	4.87
Stage 7	-0.4	4.54
Stage 7	-0.6	4.2
Stage 7	-0.8	3.87
Stage 7	-1	3.54
Stage 7	-1.2	3.2
Stage 7	-1.4	2.87
Stage 7	-1.6	2.54
Stage 7	-1.8	2.21
Stage 7	-2	1.88
Stage 7	-2.2	1.55
Stage 7	-2.4	1.22
Stage 7	-2.6	0.9
Stage 7	-2.8	0.59
Stage 7	-3	0.28
Stage 7	-3.2	-0.03
Stage 7	-3.4	-0.32
Stage 7	-3.6	-0.6
Stage 7	-3.8	-0.87
Stage 7	-4	-1.12
Stage 7	-4.2	-1.35
Stage 7	-4.4	-1.55
Stage 7	-4.6	-1.73
Stage 7	-4.8	-1.87
Stage 7	-5	-1.97
Stage 7	-5.2	-2.03
Stage 7	-5.4	-2.06
Stage 7	-5.6	-2.06
Stage 7	-5.8	-2.03
Stage 7	-6	-1.97
Stage 7	-6.2	-1.88
Stage 7	-6.4	-1.76
Stage 7	-6.6	-1.63
Stage 7	-6.8	-1.49
Stage 7	-7	-1.33
Stage 7	-7.2	-1.18
Stage 7	-7.4	-1.02
Stage 7	-7.6	-0.86
Stage 7	-7.8	-0.71
Stage 7	-8	-0.56
Stage 7	-8.2	-0.42
Stage 7	-8.4	-0.29
Stage 7	-8.6	-0.16
Stage 7	-8.8	-0.05
Stage 7	-9	0.06
Stage 7	-9.2	0.15
Stage 7	-9.4	0.24
Stage 7	-9.6	0.32
Stage 7	-9.8	0.4
Stage 7	-10	0.46
Stage 7	-10.2	0.52
Stage 7	-10.4	0.58
Stage 7	-10.6	0.63
Stage 7	-10.8	0.68
Stage 7	-11	0.72
Stage 7	-11.2	0.77
Stage 7	-11.4	0.81
Stage 7	-11.6	0.85
Stage 7	-11.8	0.89
Stage 7	-12	0.94

# Grafico Spostamento Nominal - Stage: Stage 1



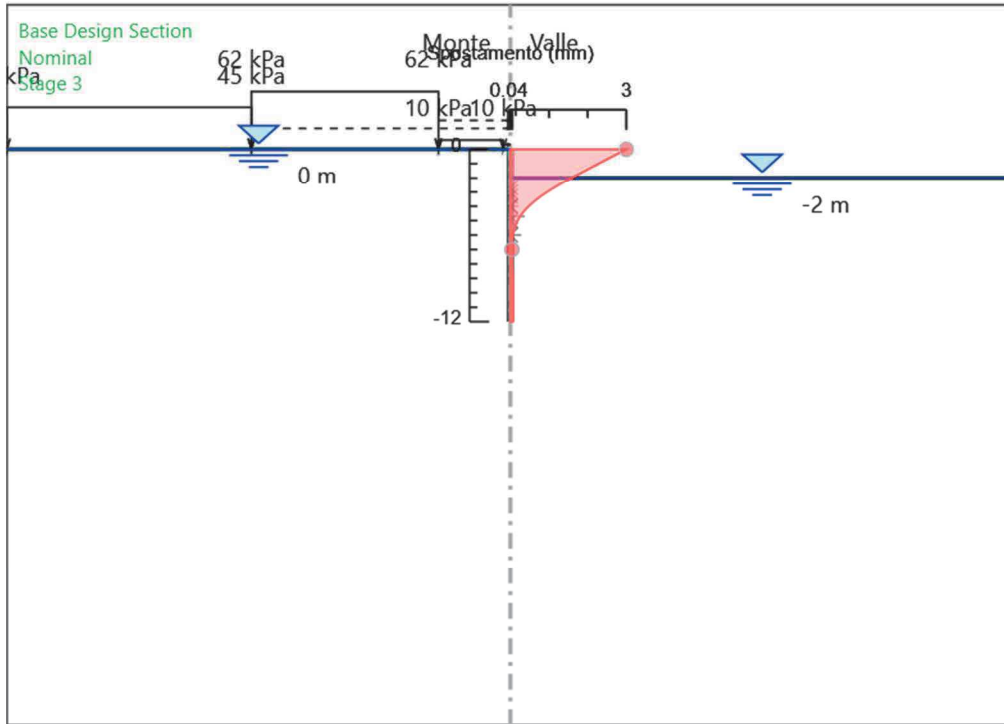
Design Assumption: Nominal  
Stage: Stage 1  
Spostamento

## Grafico Spostamento Nominal - Stage: Stage 2



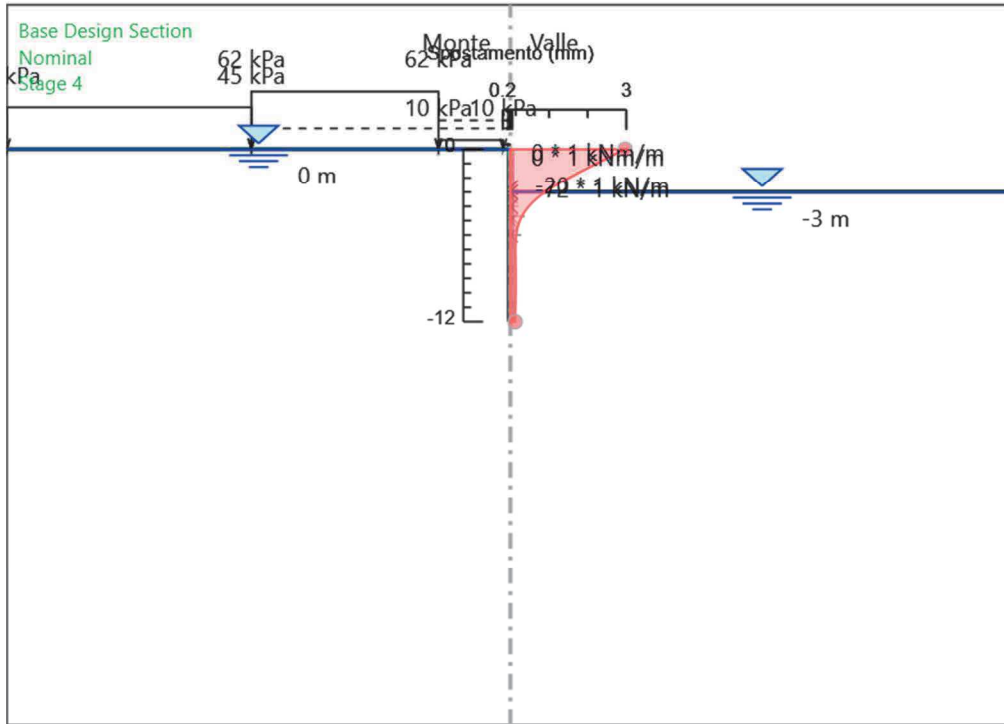
Design Assumption: Nominal  
Stage: Stage 2  
Spostamento

### Grafico Spostamento Nominal - Stage: Stage 3



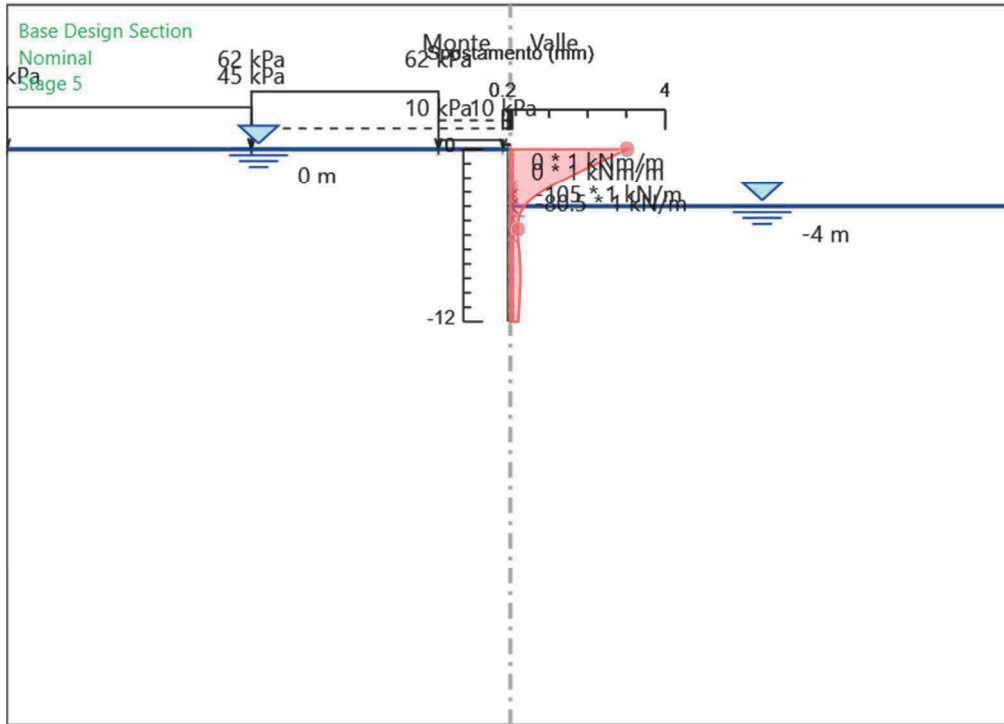
Design Assumption: Nominal  
Stage: Stage 3  
Spostamento

# Grafico Spostamento Nominal - Stage: Stage 4



Design Assumption: Nominal  
Stage: Stage 4  
Spostamento

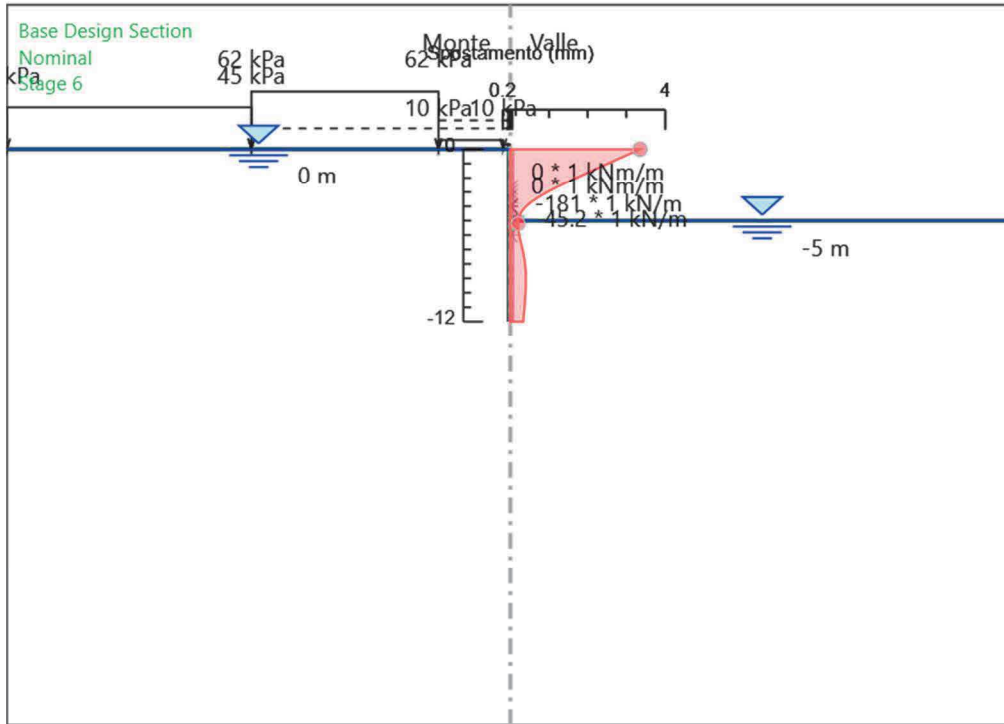
# Grafico Spostamento Nominal - Stage: Stage 5



Design Assumption: Nominal  
Stage: Stage 5  
Spostamento

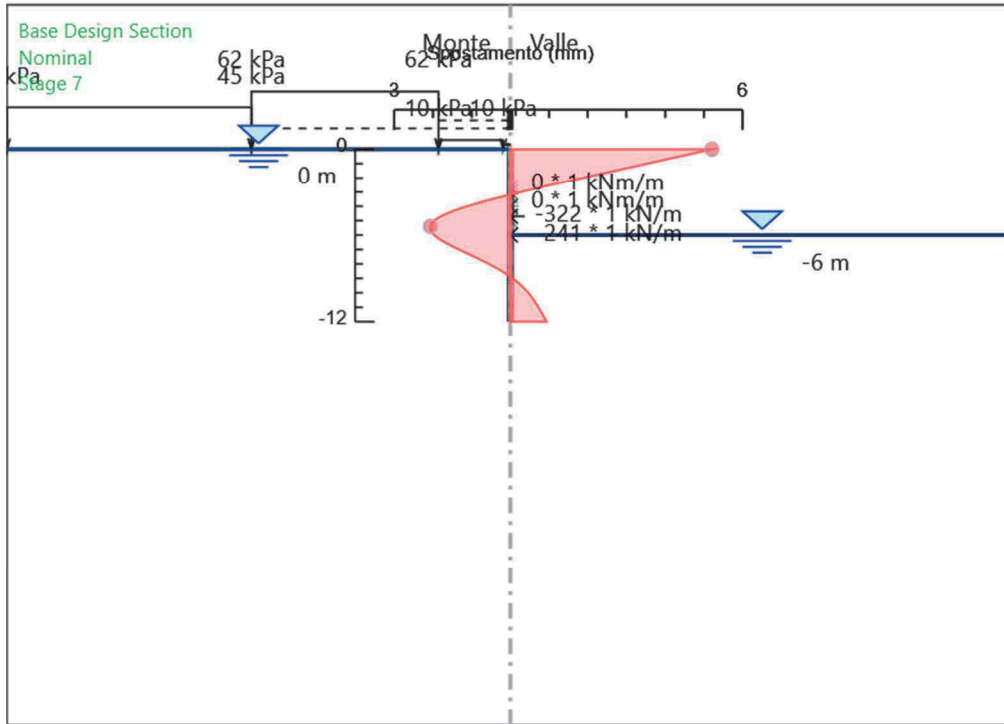


# Grafico Spostamento Nominal - Stage: Stage 6



Design Assumption: Nominal  
Stage: Stage 6  
Spostamento

# Grafico Spostamento Nominal - Stage: Stage 7



Design Assumption: Nominal  
Stage: Stage 7  
Spostamento

## **Inviluppi Spostamento Nominal**

# 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	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
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

## 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	0	0	0
Stage 2	-0.2	0	0
Stage 2	-0.2	0	0
Stage 2	-0.4	-0.1	-0.49
Stage 2	-0.6	-0.4	-1.5
Stage 2	-0.8	-1	-3.02
Stage 2	-1	-2.02	-5.07
Stage 2	-1.2	-3.55	-7.66
Stage 2	-1.4	-5.1	-7.77
Stage 2	-1.6	-6.35	-6.22
Stage 2	-1.8	-7.24	-4.48
Stage 2	-2	-7.75	-2.54
Stage 2	-2.2	-7.88	-0.67
Stage 2	-2.4	-7.73	0.77
Stage 2	-2.6	-7.36	1.85
Stage 2	-2.8	-6.84	2.61
Stage 2	-3	-6.22	3.11
Stage 2	-3.2	-5.54	3.39
Stage 2	-3.4	-4.84	3.5
Stage 2	-3.6	-4.14	3.47
Stage 2	-3.8	-3.48	3.34
Stage 2	-4	-2.85	3.12
Stage 2	-4.2	-2.28	2.84
Stage 2	-4.4	-1.78	2.53
Stage 2	-4.6	-1.34	2.2
Stage 2	-4.8	-0.96	1.88
Stage 2	-5	-0.65	1.57
Stage 2	-5.2	-0.4	1.28
Stage 2	-5.4	-0.19	1.01
Stage 2	-5.6	-0.04	0.78
Stage 2	-5.8	0.08	0.59
Stage 2	-6	0.17	0.42
Stage 2	-6.2	0.22	0.28
Stage 2	-6.4	0.26	0.17
Stage 2	-6.6	0.27	0.08
Stage 2	-6.8	0.27	0.01
Stage 2	-7	0.26	-0.04
Stage 2	-7.2	0.25	-0.08
Stage 2	-7.4	0.23	-0.11
Stage 2	-7.6	0.2	-0.12
Stage 2	-7.8	0.18	-0.13
Stage 2	-8	0.15	-0.13
Stage 2	-8.2	0.13	-0.12
Stage 2	-8.4	0.1	-0.12
Stage 2	-8.6	0.08	-0.1
Stage 2	-8.8	0.06	-0.09
Stage 2	-9	0.05	-0.08
Stage 2	-9.2	0.03	-0.07
Stage 2	-9.4	0.02	-0.06
Stage 2	-9.6	0.01	-0.04
Stage 2	-9.8	0.01	-0.03
Stage 2	-10	0	-0.02
Stage 2	-10.2	0	-0.02
Stage 2	-10.4	0	-0.01
Stage 2	-10.6	0	0
Stage 2	-10.8	0	0
Stage 2	-11	0	0
Stage 2	-11.2	0	0
Stage 2	-11.4	0	0.01
Stage 2	-11.6	0	0.01
Stage 2	-11.8	0	0
Stage 2	-12	0	0

## Tabella Risultati Paratia Nominal - Stage: Stage 3

Design Assumption: Nominal Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 3	0	0	0
Stage 3	-0.2	0	0
Stage 3	-0.2	0	0
Stage 3	-0.4	-0.1	-0.48
Stage 3	-0.6	-0.39	-1.45
Stage 3	-0.8	-0.97	-2.93
Stage 3	-1	-1.96	-4.93
Stage 3	-1.2	-3.45	-7.45
Stage 3	-1.4	-5.54	-10.46
Stage 3	-1.6	-8.33	-13.97
Stage 3	-1.8	-11.93	-17.98
Stage 3	-2	-16.43	-22.48
Stage 3	-2.2	-21.92	-27.47
Stage 3	-2.4	-27.94	-30.07
Stage 3	-2.6	-33.99	-30.27
Stage 3	-2.8	-39.61	-28.08
Stage 3	-3	-44.31	-23.49
Stage 3	-3.2	-48.06	-18.78
Stage 3	-3.4	-50.92	-14.29
Stage 3	-3.6	-52.92	-10.02
Stage 3	-3.8	-54.11	-5.94
Stage 3	-4	-54.52	-2.02
Stage 3	-4.2	-54.17	1.75
Stage 3	-4.4	-53.09	5.41
Stage 3	-4.6	-51.29	8.97
Stage 3	-4.8	-48.8	12.48
Stage 3	-5	-45.61	15.94
Stage 3	-5.2	-41.92	18.46
Stage 3	-5.4	-37.92	20
Stage 3	-5.6	-33.77	20.74
Stage 3	-5.8	-29.6	20.86
Stage 3	-6	-25.52	20.4
Stage 3	-6.2	-21.62	19.46
Stage 3	-6.4	-17.99	18.17
Stage 3	-6.6	-14.66	16.65
Stage 3	-6.8	-11.66	14.98
Stage 3	-7	-9.01	13.26
Stage 3	-7.2	-6.7	11.55
Stage 3	-7.4	-4.72	9.88
Stage 3	-7.6	-3.06	8.3
Stage 3	-7.8	-1.7	6.84
Stage 3	-8	-0.59	5.51
Stage 3	-8.2	0.27	4.31
Stage 3	-8.4	0.92	3.25
Stage 3	-8.6	1.39	2.34
Stage 3	-8.8	1.7	1.55
Stage 3	-9	1.87	0.89
Stage 3	-9.2	1.94	0.35
Stage 3	-9.4	1.93	-0.09
Stage 3	-9.6	1.84	-0.43
Stage 3	-9.8	1.7	-0.69
Stage 3	-10	1.53	-0.87
Stage 3	-10.2	1.33	-0.99
Stage 3	-10.4	1.12	-1.05
Stage 3	-10.6	0.91	-1.06
Stage 3	-10.8	0.71	-1.03
Stage 3	-11	0.52	-0.95
Stage 3	-11.2	0.35	-0.85
Stage 3	-11.4	0.2	-0.71
Stage 3	-11.6	0.09	-0.54
Stage 3	-11.8	0.03	-0.35
Stage 3	-12	0	-0.13

## 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	0	0	0
Stage 4	-0.2	0	0
Stage 4	-0.2	0	0
Stage 4	-0.4	-0.21	-1.06
Stage 4	-0.6	-0.75	-2.68
Stage 4	-0.8	-1.72	-4.85
Stage 4	-1	-3.24	-7.6
Stage 4	-1.2	-5.42	-10.93
Stage 4	-1.4	-8.38	-14.8
Stage 4	-1.6	-12.23	-19.21
Stage 4	-1.8	-17.06	-24.16
Stage 4	-2	-22.98	-29.63
Stage 4	-2.2	-30.1	-35.61
Stage 4	-2.4	-38.52	-42.07
Stage 4	-2.6	-48.32	-49.02
Stage 4	-2.8	-55.6	-36.4
Stage 4	-3	-64.44	-44.2
Stage 4	-3.2	-60.52	19.63
Stage 4	-3.4	-57.81	13.54
Stage 4	-3.6	-55.81	10
Stage 4	-3.8	-54	9.06
Stage 4	-4	-52	10
Stage 4	-4.2	-49.76	11.18
Stage 4	-4.4	-47.28	12.42
Stage 4	-4.6	-44.53	13.73
Stage 4	-4.8	-41.51	15.12
Stage 4	-5	-38.19	16.59
Stage 4	-5.2	-34.58	18.06
Stage 4	-5.4	-30.82	18.79
Stage 4	-5.6	-27.03	18.92
Stage 4	-5.8	-23.32	18.59
Stage 4	-6	-19.75	17.84
Stage 4	-6.2	-16.4	16.73
Stage 4	-6.4	-13.33	15.37
Stage 4	-6.6	-10.55	13.86
Stage 4	-6.8	-8.1	12.28
Stage 4	-7	-5.96	10.69
Stage 4	-7.2	-4.13	9.14
Stage 4	-7.4	-2.6	7.67
Stage 4	-7.6	-1.34	6.3
Stage 4	-7.8	-0.33	5.05
Stage 4	-8	0.46	3.93
Stage 4	-8.2	1.04	2.94
Stage 4	-8.4	1.46	2.09
Stage 4	-8.6	1.74	1.36
Stage 4	-8.8	1.89	0.76
Stage 4	-9	1.94	0.26
Stage 4	-9.2	1.91	-0.13
Stage 4	-9.4	1.82	-0.44
Stage 4	-9.6	1.69	-0.67
Stage 4	-9.8	1.53	-0.83
Stage 4	-10	1.34	-0.93
Stage 4	-10.2	1.15	-0.97
Stage 4	-10.4	0.95	-0.98
Stage 4	-10.6	0.76	-0.95
Stage 4	-10.8	0.58	-0.89
Stage 4	-11	0.42	-0.81
Stage 4	-11.2	0.28	-0.7
Stage 4	-11.4	0.16	-0.58
Stage 4	-11.6	0.07	-0.43
Stage 4	-11.8	0.02	-0.27
Stage 4	-12	0	-0.1

## Tabella Risultati Paratia Nominal - Stage: Stage 5

Design Assumption: Nominal Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 5	0	0	0
Stage 5	-0.2	0	0
Stage 5	-0.2	0	0
Stage 5	-0.4	-0.11	-0.56
Stage 5	-0.6	-0.47	-1.78
Stage 5	-0.8	-1.2	-3.66
Stage 5	-1	-2.44	-6.21
Stage 5	-1.2	-4.33	-9.44
Stage 5	-1.4	-7	-13.33
Stage 5	-1.6	-10.57	-17.86
Stage 5	-1.8	-15.17	-23.03
Stage 5	-2	-20.94	-28.84
Stage 5	-2.2	-28	-35.28
Stage 5	-2.4	-36.46	-42.32
Stage 5	-2.6	-46.45	-49.96
Stage 5	-2.8	-58.09	-58.17
Stage 5	-3	-71.47	-66.92
Stage 5	-3.2	-86.7	-76.17
Stage 5	-3.4	-82.87	19.15
Stage 5	-3.6	-81.06	9.1
Stage 5	-3.8	-81.31	-1.25
Stage 5	-4	-83.68	-11.85
Stage 5	-4.2	-72.1	57.86
Stage 5	-4.4	-62.35	48.75
Stage 5	-4.6	-53.95	42.04
Stage 5	-4.8	-46.39	37.79
Stage 5	-5	-39.33	35.29
Stage 5	-5.2	-32.69	33.19
Stage 5	-5.4	-26.55	30.73
Stage 5	-5.6	-20.94	28.05
Stage 5	-5.8	-15.88	25.28
Stage 5	-6	-11.4	22.42
Stage 5	-6.2	-7.49	19.52
Stage 5	-6.4	-4.16	16.67
Stage 5	-6.6	-1.37	13.93
Stage 5	-6.8	0.9	11.36
Stage 5	-7	2.7	8.99
Stage 5	-7.2	4.07	6.85
Stage 5	-7.4	5.06	4.96
Stage 5	-7.6	5.72	3.31
Stage 5	-7.8	6.1	1.9
Stage 5	-8	6.24	0.72
Stage 5	-8.2	6.2	-0.24
Stage 5	-8.4	5.99	-1.01
Stage 5	-8.6	5.68	-1.6
Stage 5	-8.8	5.27	-2.02
Stage 5	-9	4.81	-2.31
Stage 5	-9.2	4.31	-2.49
Stage 5	-9.4	3.8	-2.56
Stage 5	-9.6	3.29	-2.55
Stage 5	-9.8	2.8	-2.47
Stage 5	-10	2.33	-2.34
Stage 5	-10.2	1.89	-2.18
Stage 5	-10.4	1.5	-1.98
Stage 5	-10.6	1.14	-1.76
Stage 5	-10.8	0.84	-1.53
Stage 5	-11	0.58	-1.29
Stage 5	-11.2	0.37	-1.05
Stage 5	-11.4	0.21	-0.81
Stage 5	-11.6	0.09	-0.58
Stage 5	-11.8	0.02	-0.34
Stage 5	-12	0	-0.11



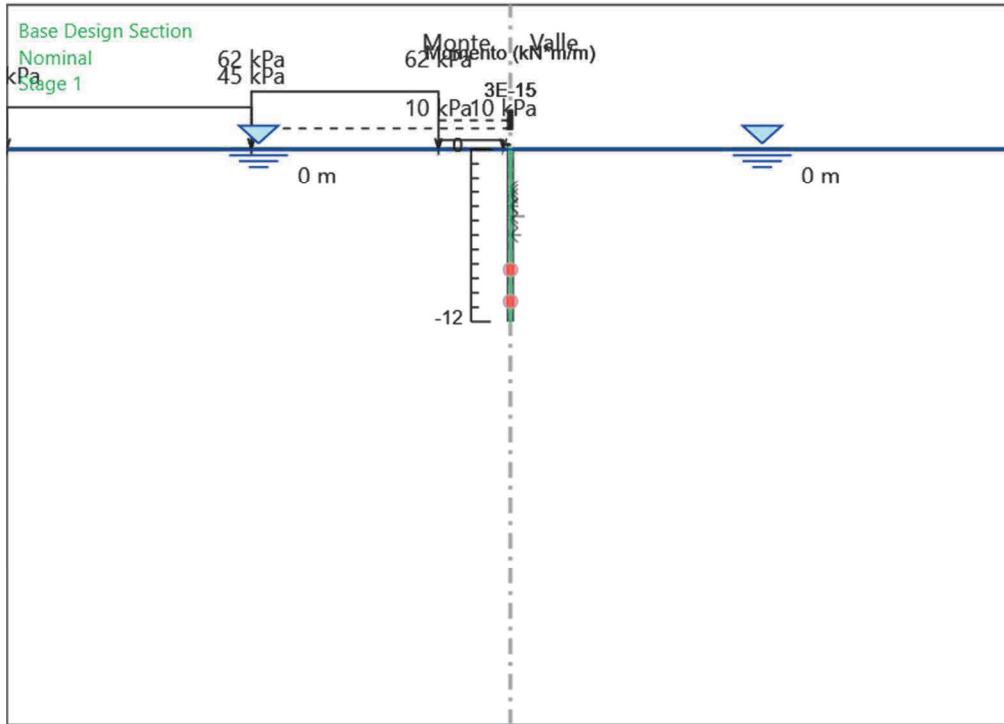
## Tabella Risultati Paratia Nominal - Stage: Stage 6

Design Assumption: Nominal Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 6	0	0	0
Stage 6	-0.2	0	0
Stage 6	-0.2	0	0
Stage 6	-0.4	-0.09	-0.43
Stage 6	-0.6	-0.34	-1.3
Stage 6	-0.8	-0.87	-2.62
Stage 6	-1	-1.75	-4.41
Stage 6	-1.2	-3.09	-6.67
Stage 6	-1.4	-4.96	-9.38
Stage 6	-1.6	-7.47	-12.52
Stage 6	-1.8	-10.69	-16.12
Stage 6	-2	-14.72	-20.15
Stage 6	-2.2	-19.65	-24.63
Stage 6	-2.4	-25.55	-29.54
Stage 6	-2.6	-32.53	-34.9
Stage 6	-2.8	-40.72	-40.95
Stage 6	-3	-50.27	-47.71
Stage 6	-3.2	-61.29	-55.14
Stage 6	-3.4	-73.94	-63.22
Stage 6	-3.6	-88.32	-71.9
Stage 6	-3.8	-104.54	-81.14
Stage 6	-4	-122.72	-90.87
Stage 6	-4.2	-106.72	79.99
Stage 6	-4.4	-92.85	69.37
Stage 6	-4.6	-81.18	58.33
Stage 6	-4.8	-71.79	46.95
Stage 6	-5	-64.74	35.28
Stage 6	-5.2	-51.04	68.46
Stage 6	-5.4	-39.47	57.86
Stage 6	-5.6	-29.7	48.84
Stage 6	-5.8	-21.39	41.55
Stage 6	-6	-14.18	36.09
Stage 6	-6.2	-8.01	30.85
Stage 6	-6.4	-2.83	25.88
Stage 6	-6.6	1.42	21.25
Stage 6	-6.8	4.82	17
Stage 6	-7	7.45	13.17
Stage 6	-7.2	9.41	9.76
Stage 6	-7.4	10.76	6.77
Stage 6	-7.6	11.6	4.2
Stage 6	-7.8	12.01	2.02
Stage 6	-8	12.05	0.21
Stage 6	-8.2	11.79	-1.27
Stage 6	-8.4	11.31	-2.43
Stage 6	-8.6	10.64	-3.31
Stage 6	-8.8	9.85	-3.95
Stage 6	-9	8.98	-4.38
Stage 6	-9.2	8.05	-4.63
Stage 6	-9.4	7.11	-4.72
Stage 6	-9.6	6.17	-4.68
Stage 6	-9.8	5.27	-4.54
Stage 6	-10	4.4	-4.31
Stage 6	-10.2	3.6	-4.02
Stage 6	-10.4	2.86	-3.68
Stage 6	-10.6	2.2	-3.3
Stage 6	-10.8	1.63	-2.89
Stage 6	-11	1.13	-2.47
Stage 6	-11.2	0.73	-2.03
Stage 6	-11.4	0.41	-1.58
Stage 6	-11.6	0.18	-1.14
Stage 6	-11.8	0.05	-0.68
Stage 6	-12	0	-0.23

## Tabella Risultati Paratia Nominal - Stage: Stage 7

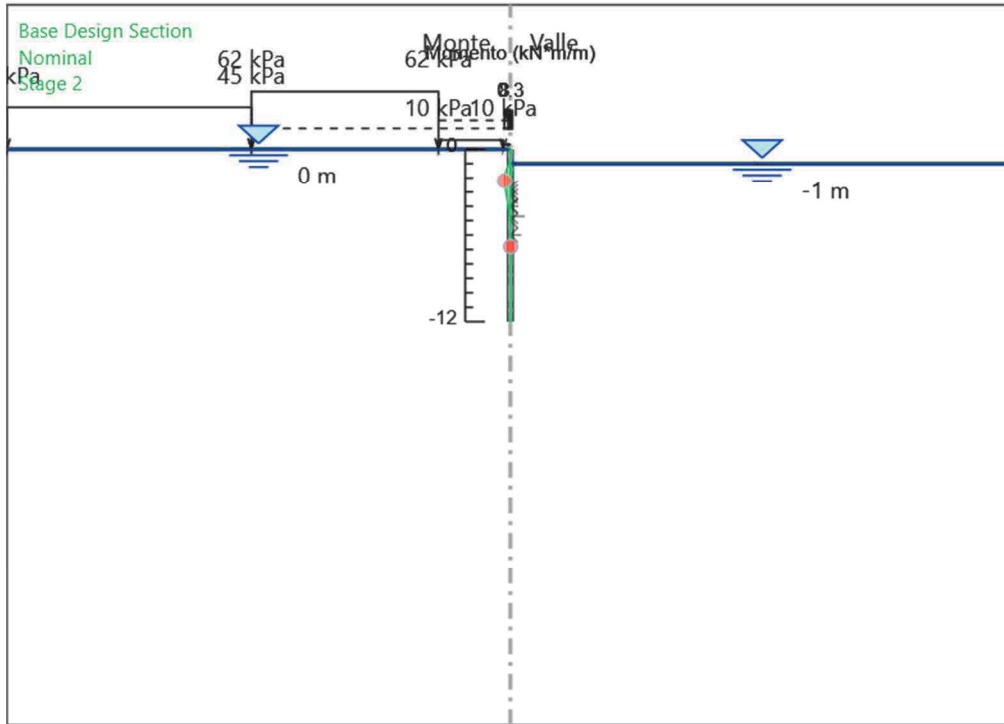
Design Assumption: Nominal Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 7	0	0	0
Stage 7	-0.2	0	0
Stage 7	-0.2	0	0
Stage 7	-0.4	-0.08	-0.41
Stage 7	-0.6	-0.33	-1.25
Stage 7	-0.8	-0.84	-2.53
Stage 7	-1	-1.69	-4.25
Stage 7	-1.2	-2.97	-6.42
Stage 7	-1.4	-4.78	-9.03
Stage 7	-1.6	-7.19	-12.05
Stage 7	-1.8	-10.29	-15.51
Stage 7	-2	-14.17	-19.39
Stage 7	-2.2	-18.9	-23.69
Stage 7	-2.4	-24.6	-28.48
Stage 7	-2.6	-31.62	-35.1
Stage 7	-2.8	-40.38	-43.82
Stage 7	-3	-51.15	-53.85
Stage 7	-3.2	-64.15	-65
Stage 7	-3.4	-79.6	-77.24
Stage 7	-3.6	-97.71	-90.56
Stage 7	-3.8	-118.7	-104.91
Stage 7	-4	-142.75	-120.28
Stage 7	-4.2	-170.07	-136.59
Stage 7	-4.4	-200.84	-153.85
Stage 7	-4.6	-235.24	-172
Stage 7	-4.8	-273.43	-190.97
Stage 7	-5	-251.17	111.32
Stage 7	-5.2	-232.98	90.94
Stage 7	-5.4	-219.04	69.72
Stage 7	-5.6	-209.48	47.8
Stage 7	-5.8	-204.42	25.3
Stage 7	-6	-203.95	2.33
Stage 7	-6.2	-159.95	220
Stage 7	-6.4	-120.55	197
Stage 7	-6.6	-85.67	174.43
Stage 7	-6.8	-55.2	152.33
Stage 7	-7	-29.05	130.76
Stage 7	-7.2	-6.83	111.11
Stage 7	-7.4	11.74	92.86
Stage 7	-7.6	26.94	76
Stage 7	-7.8	39.05	60.53
Stage 7	-8	48.33	46.4
Stage 7	-8.2	55.04	33.56
Stage 7	-8.4	59.43	21.97
Stage 7	-8.6	61.75	11.56
Stage 7	-8.8	62.19	2.25
Stage 7	-9	60.99	-6.02
Stage 7	-9.2	58.41	-12.88
Stage 7	-9.4	54.74	-18.35
Stage 7	-9.6	50.24	-22.53
Stage 7	-9.8	45.13	-25.55
Stage 7	-10	39.63	-27.5
Stage 7	-10.2	33.93	-28.47
Stage 7	-10.4	28.22	-28.55
Stage 7	-10.6	22.66	-27.8
Stage 7	-10.8	17.41	-26.27
Stage 7	-11	12.6	-24.02
Stage 7	-11.2	8.39	-21.08
Stage 7	-11.4	4.89	-17.47
Stage 7	-11.6	2.25	-13.22
Stage 7	-11.8	0.58	-8.33
Stage 7	-12	0	-2.92

# Grafico Momento Nominal - Stage: Stage 1



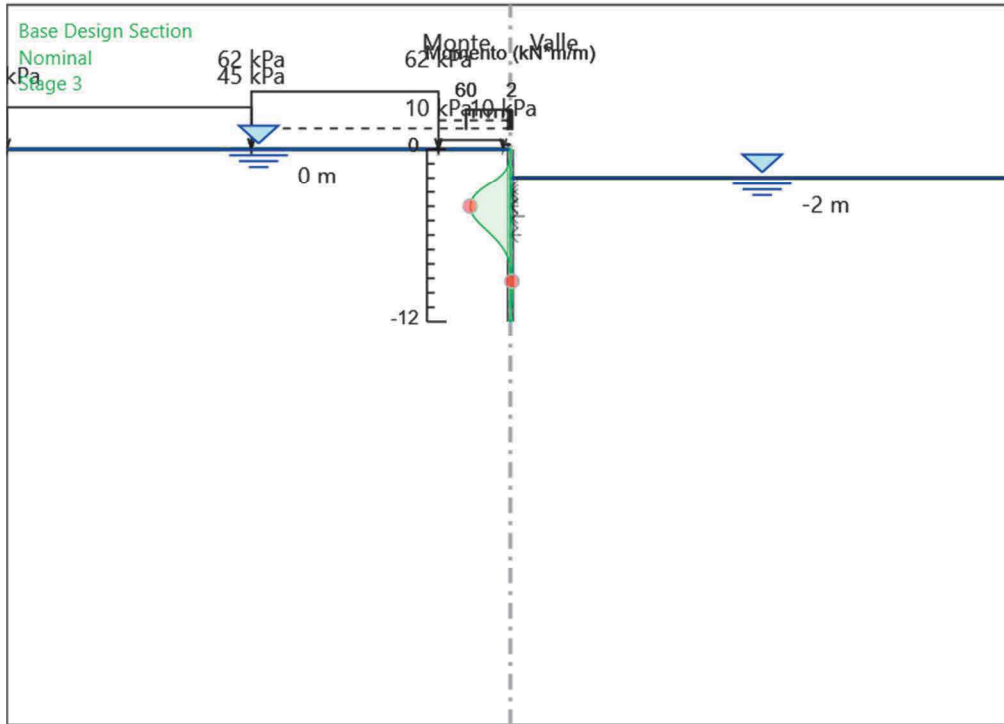
Design Assumption: Nominal  
Stage: Stage 1  
Momento

# Grafico Momento Nominal - Stage: Stage 2



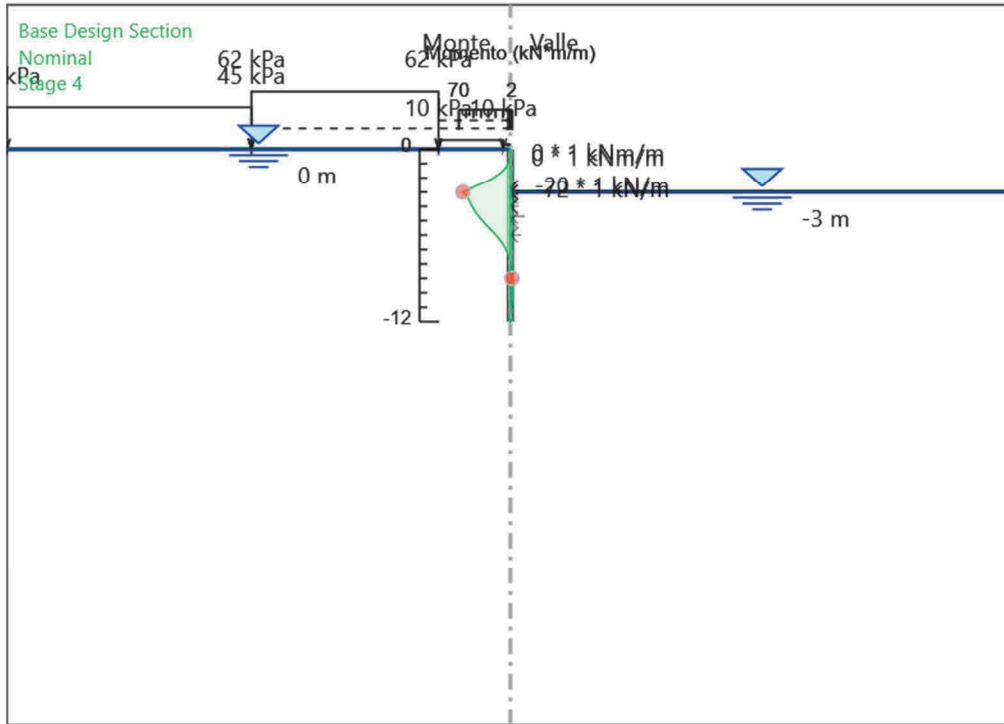
Design Assumption: Nominal  
Stage: Stage 2  
Momento

### Grafico Momento Nominal - Stage: Stage 3



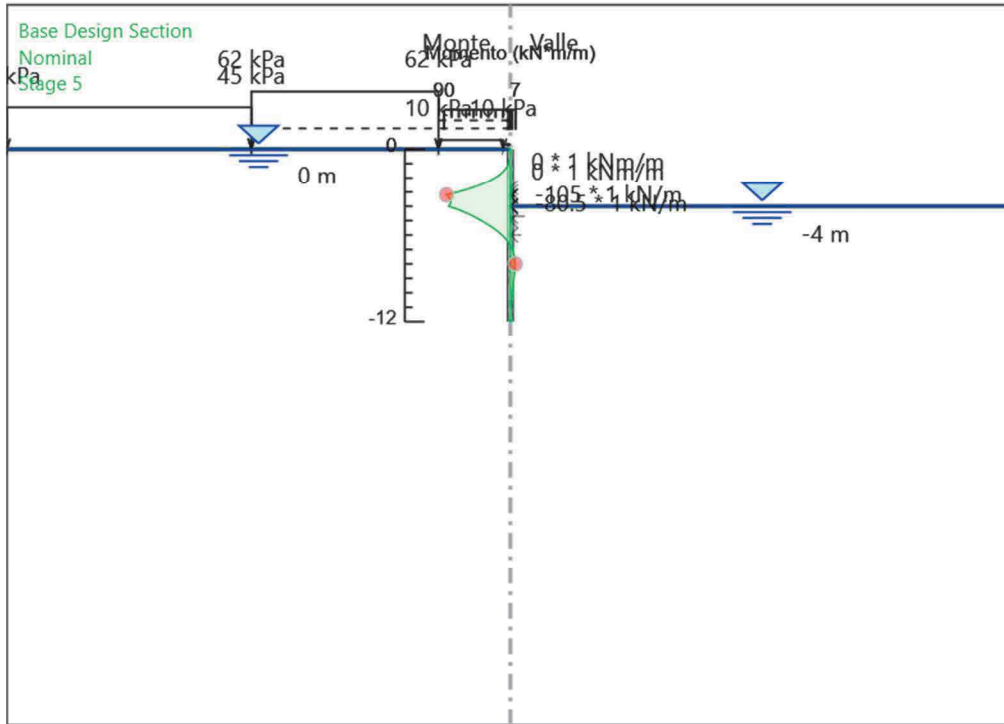
Design Assumption: Nominal  
Stage: Stage 3  
Momento

# Grafico Momento Nominal - Stage: Stage 4



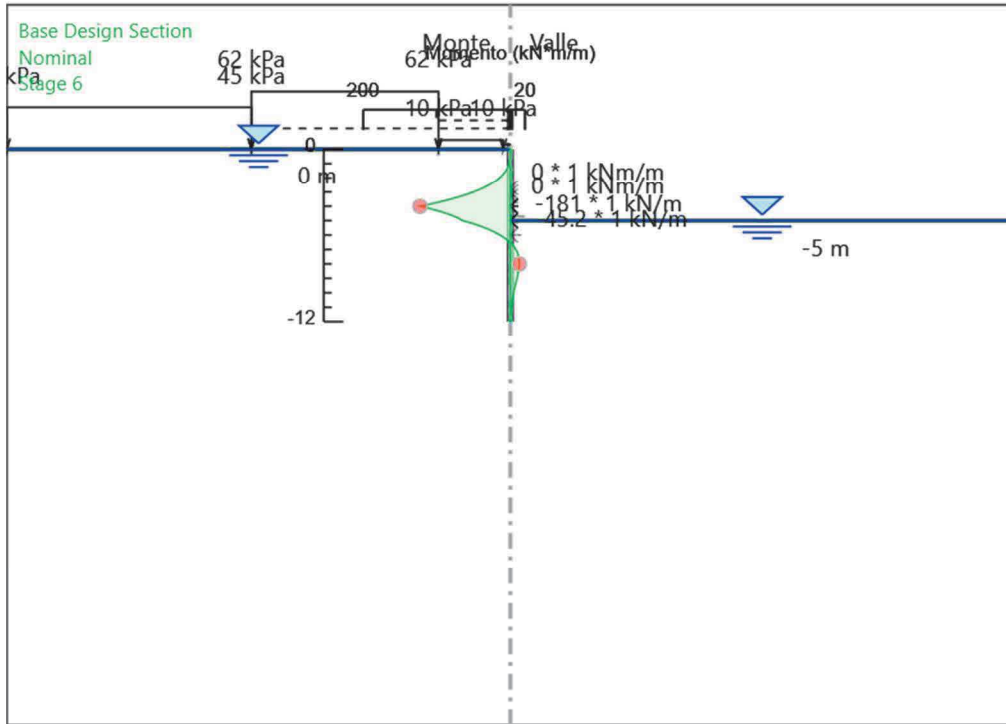
Design Assumption: Nominal  
Stage: Stage 4  
Momento

# Grafico Momento Nominal - Stage: Stage 5



Design Assumption: Nominal  
Stage: Stage 5  
Momento

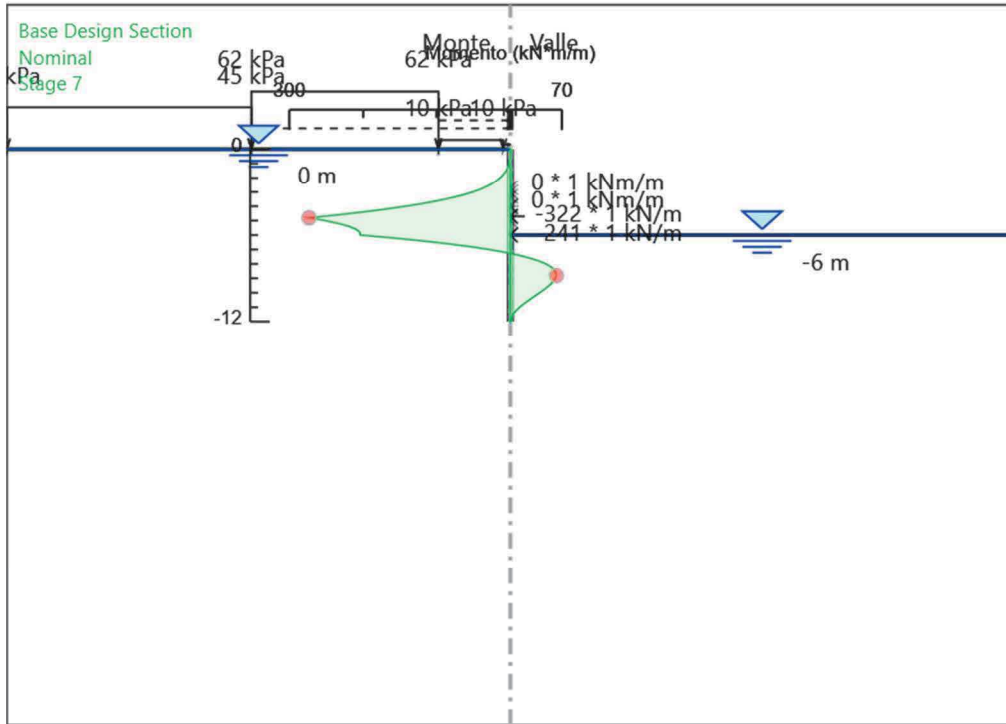
# Grafico Momento Nominal - Stage: Stage 6



Design Assumption: Nominal  
 Stage: Stage 6  
 Momento

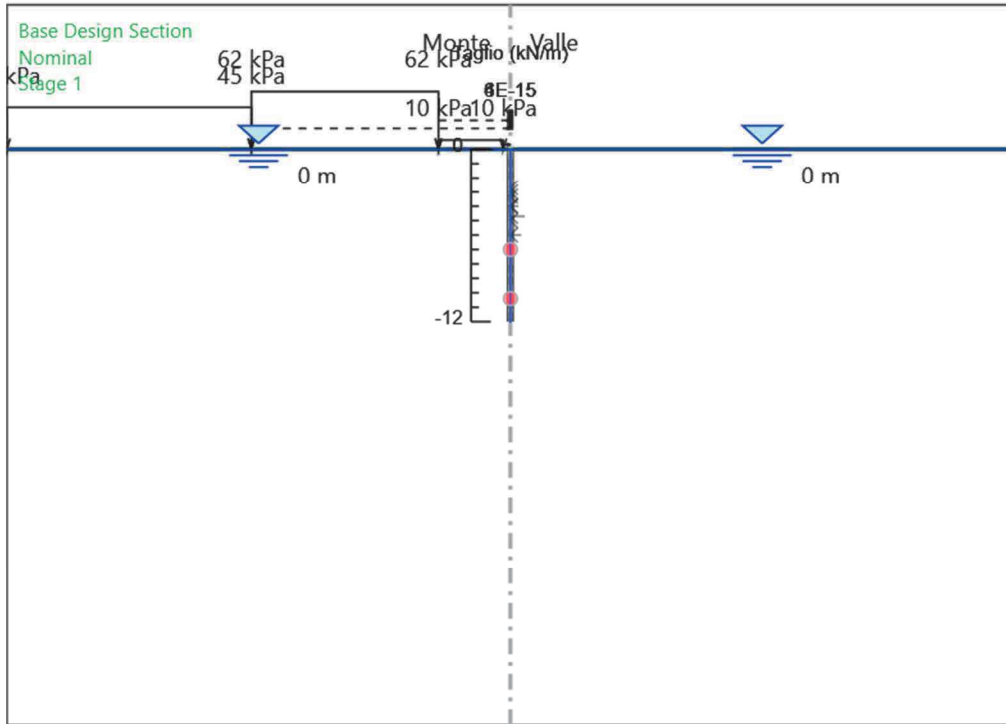


# Grafico Momento Nominal - Stage: Stage 7



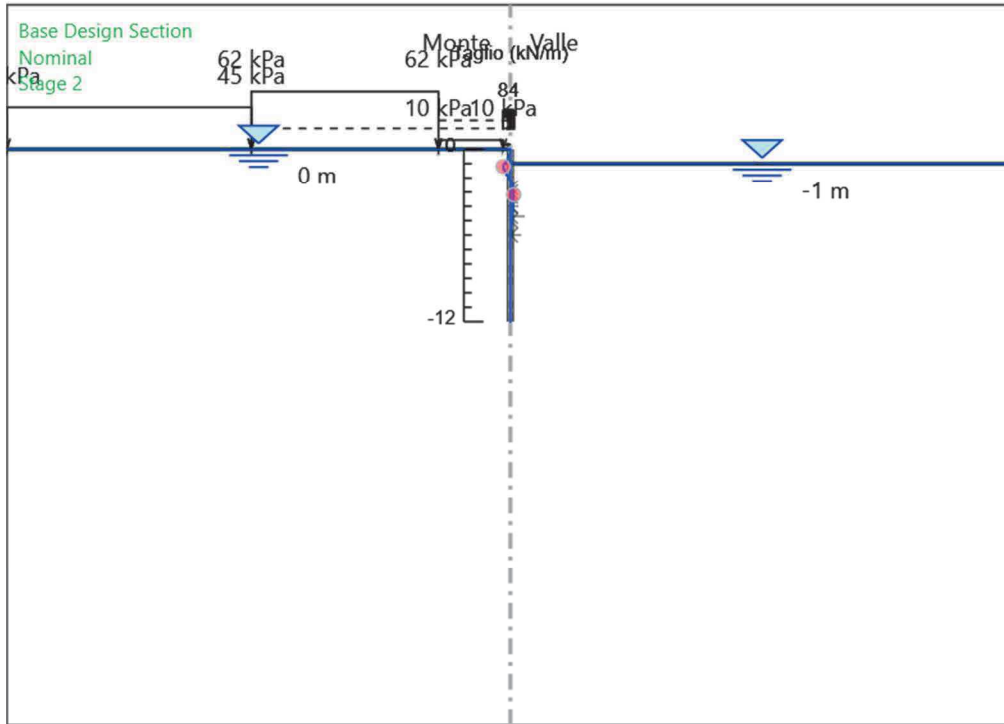
Design Assumption: Nominal  
Stage: Stage 7  
Momento

# Grafico Taglio Nominal - Stage: Stage 1



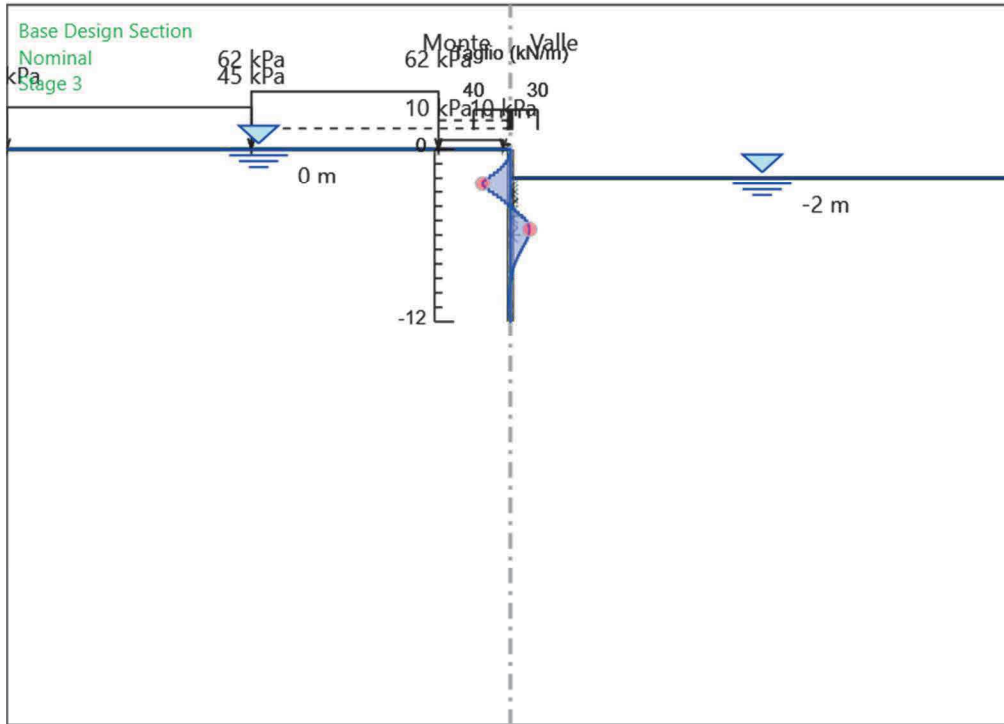
Design Assumption: Nominal  
Stage: Stage 1  
Taglio

## Grafico Taglio Nominal - Stage: Stage 2



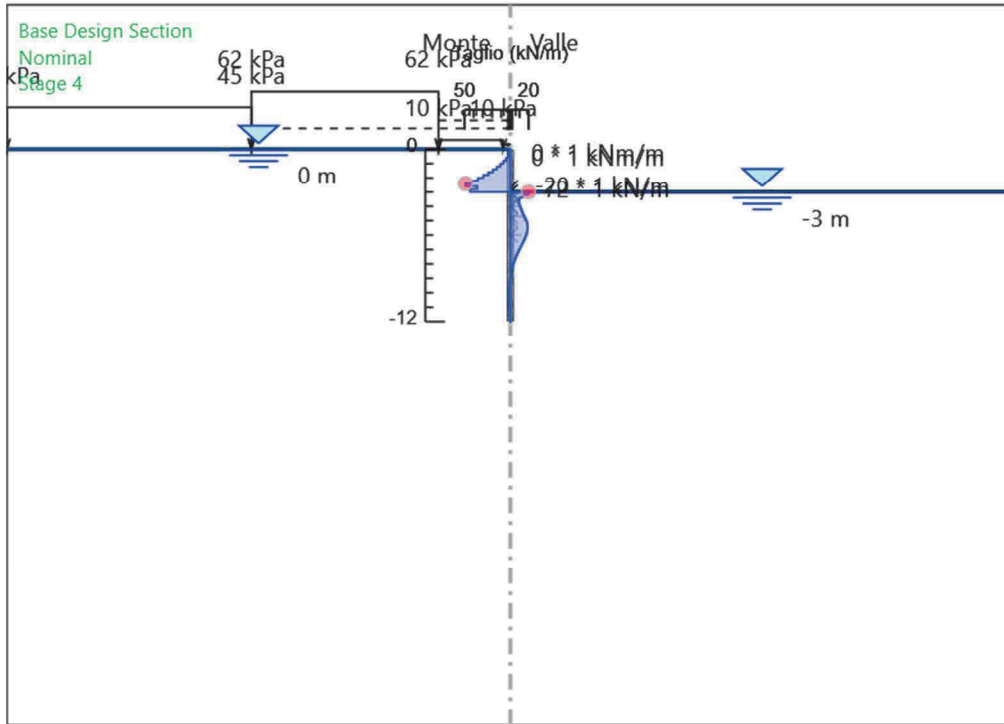
Design Assumption: Nominal  
Stage: Stage 2  
Taglio

### Grafico Taglio Nominal - Stage: Stage 3



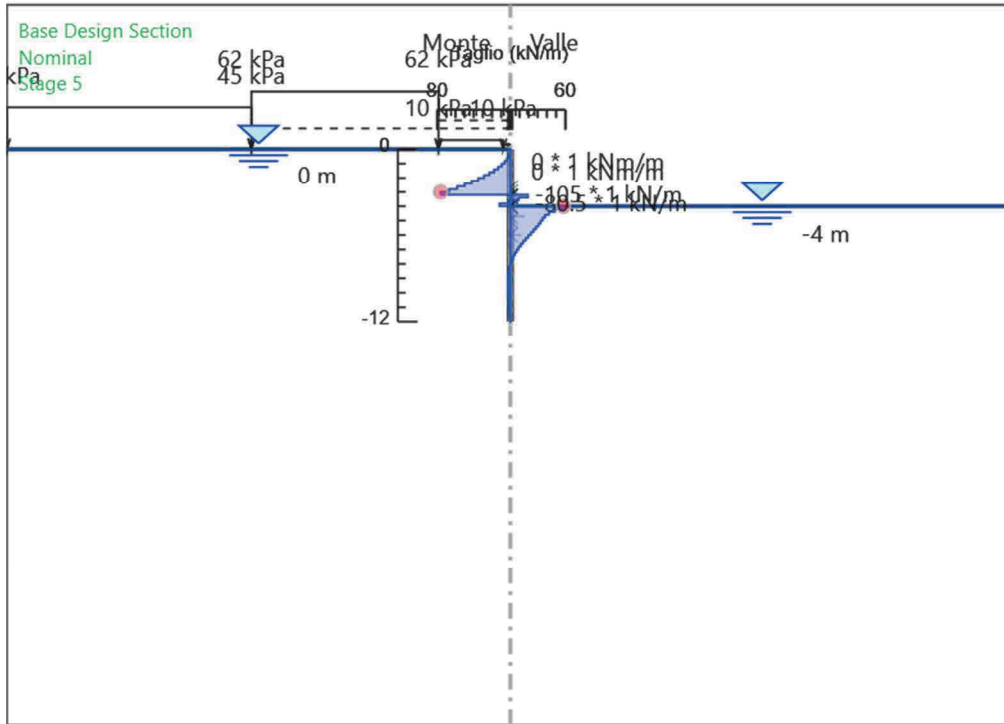
Design Assumption: Nominal  
Stage: Stage 3  
Taglio

# Grafico Taglio Nominal - Stage: Stage 4



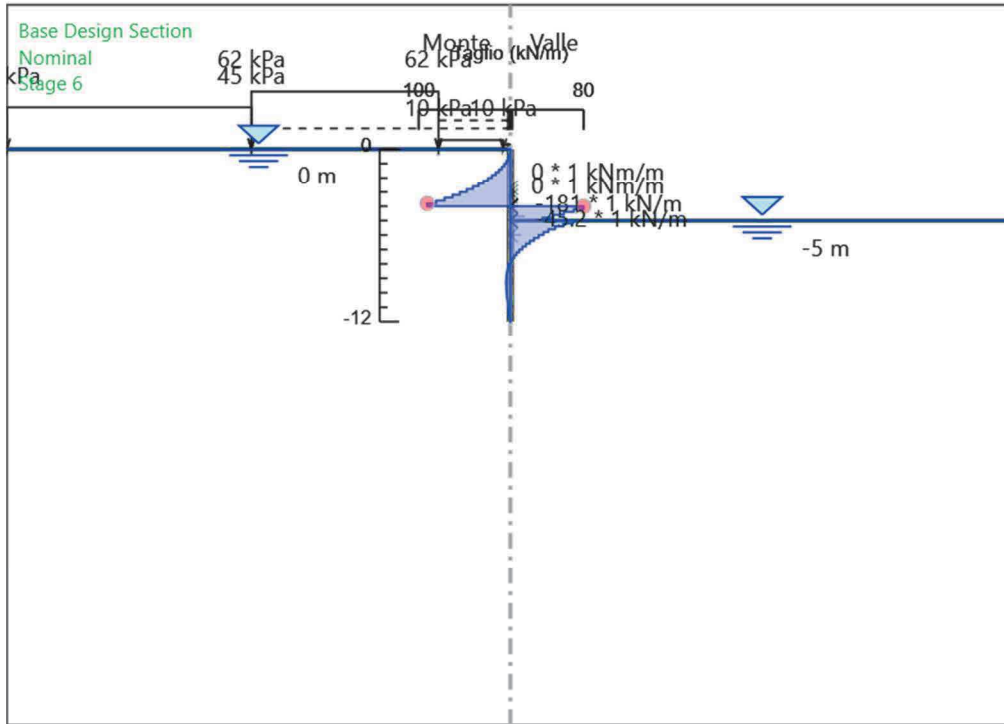
Design Assumption: Nominal  
Stage: Stage 4  
Taglio

# Grafico Taglio Nominal - Stage: Stage 5



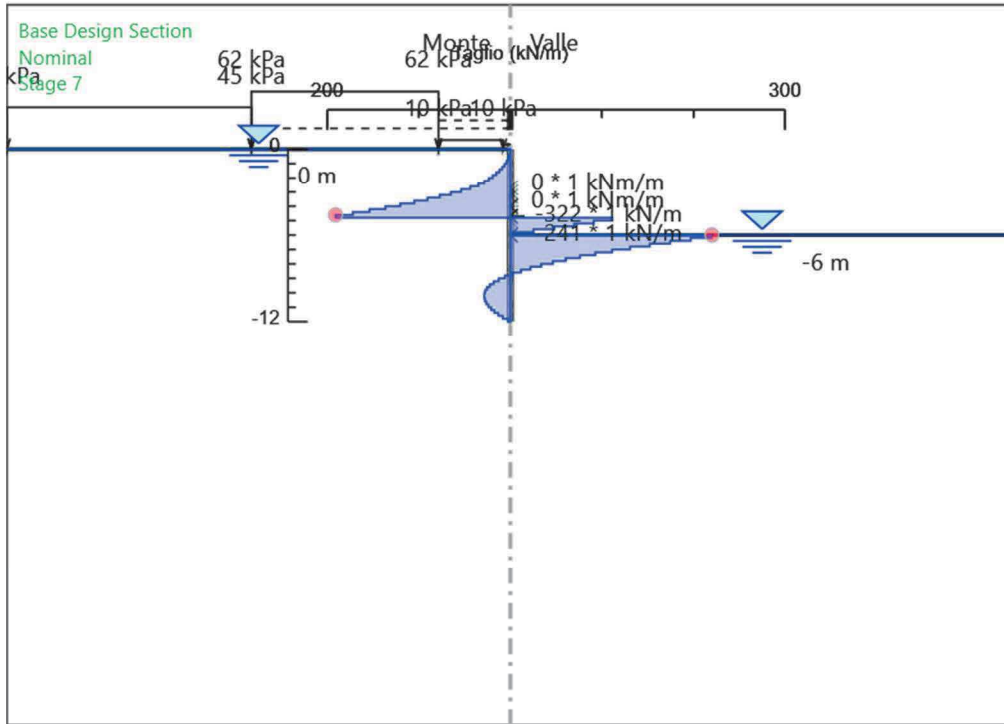
Design Assumption: Nominal  
Stage: Stage 5  
Taglio

# Grafico Taglio Nominal - Stage: Stage 6



Design Assumption: Nominal  
Stage: Stage 6  
Taglio

# Grafico Taglio Nominal - Stage: Stage 7



Design Assumption: Nominal  
Stage: Stage 7  
Taglio



**Inviluppi Risultati Paratia Nominal**

# Risultati Terreno

## Tabella Risultati Terreno Left Wall - Nominal - Stage 1

Design Assumption: Nominal Risultati Terreno										
Stage	Z (m)	Sigma V (kPa)	Sigma H (kPa)	Muro: LEFT	Lato	LEFT				
				Stato	Ka	Kp	Coesione (kPa)	Pore (kPa)	Gradiente U* (kPa)	Peq (kPa)
Stage 1	0	0	0	V-C	0.2496.738		0	0	0	0
Stage 1	-0.2	2.114	4.348	V-C	0.2496.738		0	2	0	6.348
Stage 1	-0.4	4.601	7.77	V-C	0.2496.738		0	4	0	11.77
Stage 1	-0.6	7.242	10.437	V-C	0.2496.738		0	6	0	16.437
Stage 1	-0.8	10.188	12.726	V-C	0.2496.738		0	8	0	20.726
Stage 1	-1	13.135	14.83	V-C	0.2496.738		0	10	0	24.83
Stage 1	-1.2	15.661	16.828	V-C	0.2496.738		0	12	0	28.828
Stage 1	-1.4	18.101	18.75	V-C	0.2496.738		0	14	0	32.75
Stage 1	-1.6	20.633	20.608	V-C	0.2496.738		0	16	0	36.608
Stage 1	-1.8	22.984	22.407	V-C	0.2496.738		0	18	0	40.407
Stage 1	-2	25.438	24.149	V-C	0.2496.738		0	20	0	44.149
Stage 1	-2.2	27.771	25.833	V-C	0.2496.738		0	22	0	47.833
Stage 1	-2.4	30.202	27.462	V-C	0.2496.738		0	24	0	51.462
Stage 1	-2.6	32.543	29.035	V-C	0.2496.738		0	26	0	55.035
Stage 1	-2.8	34.975	30.555	V-C	0.2496.738		0	28	0	58.555
Stage 1	-3	37.333	32.023	V-C	0.2496.738		0	30	0	62.023
Stage 1	-3.2	39.772	33.441	V-C	0.2496.738		0	32	0	65.441
Stage 1	-3.4	42.148	34.812	V-C	0.2496.738		0	34	0	68.812
Stage 1	-3.6	44.534	36.137	V-C	0.2496.738		0	36	0	72.137
Stage 1	-3.8	46.986	37.42	V-C	0.2496.738		0	38	0	75.42
Stage 1	-4	49.382	38.663	V-C	0.2496.738		0	40	0	78.663
Stage 1	-4.2	51.837	39.87	V-C	0.2496.738		0	42	0	81.87
Stage 1	-4.4	54.239	41.041	V-C	0.2496.738		0	44	0	85.041
Stage 1	-4.6	56.691	42.181	V-C	0.2496.738		0	46	0	88.181
Stage 1	-4.8	59.093	43.291	V-C	0.2496.738		0	48	0	91.291
Stage 1	-5	61.495	44.374	V-C	0.2496.738		0	50	0	94.374
Stage 1	-5.2	63.719	45.433	V-C	0.2496.738		0	52	0	97.433
Stage 1	-5.4	65.95	46.468	V-C	0.2496.738		0	54	0	100.468
Stage 1	-5.6	68.186	47.483	V-C	0.2496.738		0	56	0	103.483
Stage 1	-5.8	70.425	48.479	V-C	0.2496.738		0	58	0	106.479
Stage 1	-6	72.666	49.458	V-C	0.2496.738		0	60	0	109.458
Stage 1	-6.2	74.907	50.421	V-C	0.2496.738		0	62	0	112.421
Stage 1	-6.4	77.149	51.37	V-C	0.2496.738		0	64	0	115.37
Stage 1	-6.6	79.628	52.306	V-C	0.2496.738		0	66	0	118.306
Stage 1	-6.8	82.01	53.23	V-C	0.2496.738		0	68	0	121.23
Stage 1	-7	84.951	54.144	V-C	0.2496.738		0	70	0	124.144
Stage 1	-7.2	87.295	55.049	V-C	0.2496.738		0	72	0	127.049
Stage 1	-7.4	90.17	55.945	V-C	0.2496.738		0	74	0	129.945
Stage 1	-7.6	92.482	56.834	V-C	0.2496.738		0	76	0	132.834
Stage 1	-7.8	95.3	57.715	V-C	0.2496.738		0	78	0	135.715
Stage 1	-8	98.084	58.591	V-C	0.2496.738		0	80	0	138.591
Stage 1	-8.2	100.351	59.461	V-C	0.2496.738		0	82	0	141.461
Stage 1	-8.4	103.087	60.327	V-C	0.2496.738		0	84	0	144.327
Stage 1	-8.6	105.332	61.188	V-C	0.2496.738		0	86	0	147.188
Stage 1	-8.8	108.026	62.045	V-C	0.2496.738		0	88	0	150.045
Stage 1	-9	110.252	62.899	V-C	0.2496.738		0	90	0	152.899
Stage 1	-9.2	112.909	63.751	V-C	0.2496.738		0	92	0	155.751
Stage 1	-9.4	115.117	64.6	V-C	0.2496.738		0	94	0	158.6
Stage 1	-9.6	117.74	65.446	V-C	0.2496.738		0	96	0	161.446
Stage 1	-9.8	119.934	66.291	V-C	0.2496.738		0	98	0	164.291
Stage 1	-10	122.526	67.135	V-C	0.2496.738		0	100	0	167.135
Stage 1	-10.2	124.706	67.977	V-C	0.2496.738		0	102	0	169.977
Stage 1	-10.4	127.27	68.818	V-C	0.2496.738		0	104	0	172.818
Stage 1	-10.6	129.817	69.659	V-C	0.2496.738		0	106	0	175.659
Stage 1	-10.8	131.977	70.499	V-C	0.2496.738		0	108	0	178.499
Stage 1	-11	134.5	71.339	V-C	0.2496.738		0	110	0	181.338
Stage 1	-11.2	136.651	72.178	V-C	0.2496.738		0	112	0	184.178
Stage 1	-11.4	139.152	73.017	V-C	0.2496.738		0	114	0	187.017
Stage 1	-11.6	141.293	73.857	V-C	0.2496.738		0	116	0	189.857
Stage 1	-11.8	143.774	74.697	V-C	0.2496.738		0	118	0	192.696
Stage 1	-12	145.908	75.537	V-C	0.2496.738		0	120	0	195.537

Design Assumption: Nominal Risultati Terreno			Muro:	LEFT	Lato	RIGHT				
Stage	Z (m)	Sigma V (kPa)	Sigma H (kPa)	Stato	Ka	Kp	Coesione (kPa)	Pore (kPa)	Gradiente U* (kPa)	Peq (kPa)
Stage 1	0	0	0	V-C	0.2496.738		0	0	0	0
Stage 1	-0.2	2	4.348	V-C	0.2496.738		0	2	0	6.348
Stage 1	-0.4	4	7.77	V-C	0.2496.738		0	4	0	11.77
Stage 1	-0.6	6	10.437	V-C	0.2496.738		0	6	0	16.437
Stage 1	-0.8	8	12.726	V-C	0.2496.738		0	8	0	20.726
Stage 1	-1	10	14.83	V-C	0.2496.738		0	10	0	24.83
Stage 1	-1.2	12	16.828	V-C	0.2496.738		0	12	0	28.828
Stage 1	-1.4	14	18.75	V-C	0.2496.738		0	14	0	32.75
Stage 1	-1.6	16	20.608	V-C	0.2496.738		0	16	0	36.608
Stage 1	-1.8	18	22.407	V-C	0.2496.738		0	18	0	40.407
Stage 1	-2	20	24.149	V-C	0.2496.738		0	20	0	44.149
Stage 1	-2.2	22	25.833	V-C	0.2496.738		0	22	0	47.833
Stage 1	-2.4	24	27.462	V-C	0.2496.738		0	24	0	51.462
Stage 1	-2.6	26	29.035	V-C	0.2496.738		0	26	0	55.035
Stage 1	-2.8	28	30.555	V-C	0.2496.738		0	28	0	58.555
Stage 1	-3	30	32.023	V-C	0.2496.738		0	30	0	62.023
Stage 1	-3.2	32	33.441	V-C	0.2496.738		0	32	0	65.441
Stage 1	-3.4	34	34.812	V-C	0.2496.738		0	34	0	68.812
Stage 1	-3.6	36	36.137	V-C	0.2496.738		0	36	0	72.137
Stage 1	-3.8	38	37.42	V-C	0.2496.738		0	38	0	75.42
Stage 1	-4	40	38.663	V-C	0.2496.738		0	40	0	78.663
Stage 1	-4.2	42	39.87	V-C	0.2496.738		0	42	0	81.87
Stage 1	-4.4	44	41.041	V-C	0.2496.738		0	44	0	85.041
Stage 1	-4.6	46	42.181	V-C	0.2496.738		0	46	0	88.181
Stage 1	-4.8	48	43.291	V-C	0.2496.738		0	48	0	91.291
Stage 1	-5	50	44.374	V-C	0.2496.738		0	50	0	94.374
Stage 1	-5.2	52	45.433	V-C	0.2496.738		0	52	0	97.433
Stage 1	-5.4	54	46.468	V-C	0.2496.738		0	54	0	100.468
Stage 1	-5.6	56	47.483	V-C	0.2496.738		0	56	0	103.483
Stage 1	-5.8	58	48.479	V-C	0.2496.738		0	58	0	106.479
Stage 1	-6	60	49.458	V-C	0.2496.738		0	60	0	109.458
Stage 1	-6.2	62	50.421	V-C	0.2496.738		0	62	0	112.421
Stage 1	-6.4	64	51.37	V-C	0.2496.738		0	64	0	115.37
Stage 1	-6.6	66	52.306	V-C	0.2496.738		0	66	0	118.306
Stage 1	-6.8	68	53.23	V-C	0.2496.738		0	68	0	121.23
Stage 1	-7	70	54.144	V-C	0.2496.738		0	70	0	124.144
Stage 1	-7.2	72	55.049	V-C	0.2496.738		0	72	0	127.049
Stage 1	-7.4	74	55.945	V-C	0.2496.738		0	74	0	129.945
Stage 1	-7.6	76	56.834	V-C	0.2496.738		0	76	0	132.834
Stage 1	-7.8	78	57.715	V-C	0.2496.738		0	78	0	135.715
Stage 1	-8	80	58.591	V-C	0.2496.738		0	80	0	138.591
Stage 1	-8.2	82	59.461	V-C	0.2496.738		0	82	0	141.461
Stage 1	-8.4	84	60.327	V-C	0.2496.738		0	84	0	144.327
Stage 1	-8.6	86	61.188	V-C	0.2496.738		0	86	0	147.188
Stage 1	-8.8	88	62.045	V-C	0.2496.738		0	88	0	150.045
Stage 1	-9	90	62.899	V-C	0.2496.738		0	90	0	152.899
Stage 1	-9.2	92	63.751	V-C	0.2496.738		0	92	0	155.751
Stage 1	-9.4	94	64.6	V-C	0.2496.738		0	94	0	158.6
Stage 1	-9.6	96	65.446	V-C	0.2496.738		0	96	0	161.446
Stage 1	-9.8	98	66.291	V-C	0.2496.738		0	98	0	164.291
Stage 1	-10	100	67.135	V-C	0.2496.738		0	100	0	167.135
Stage 1	-10.2	102	67.977	V-C	0.2496.738		0	102	0	169.977
Stage 1	-10.4	104	68.818	V-C	0.2496.738		0	104	0	172.818
Stage 1	-10.6	106	69.659	V-C	0.2496.738		0	106	0	175.659
Stage 1	-10.8	108	70.499	V-C	0.2496.738		0	108	0	178.499
Stage 1	-11	110	71.339	V-C	0.2496.738		0	110	0	181.338
Stage 1	-11.2	112	72.178	V-C	0.2496.738		0	112	0	184.178
Stage 1	-11.4	114	73.017	V-C	0.2496.738		0	114	0	187.017
Stage 1	-11.6	116	73.857	V-C	0.2496.738		0	116	0	189.857
Stage 1	-11.8	118	74.697	V-C	0.2496.738		0	118	0	192.696
Stage 1	-12	120	75.537	V-C	0.2496.738		0	120	0	195.537

## Tabella Risultati Terreno Left Wall - Nominal - Stage 2

Design Assumption: Nominal Risultati Terreno				Muro:	LEFT	Lato	LEFT			
Stage	Z (m)	Sigma V (kPa)	Sigma H (kPa)	Stato	Ka	Kp	Coesione (kPa)	Pore (kPa)	Gradiente U* (kPa)	Peq (kPa)
Stage 2	0	0	0	ACTIVE	0.2496.738		0	0	0	0
Stage 2	-0.2	2.201	0.548	ACTIVE	0.2496.738		0	1.913	0.043	0 2.461
Stage 2	-0.4	4.775	1.189	ACTIVE	0.2496.738		0	3.826	0.043	0 5.015
Stage 2	-0.6	7.503	1.868	ACTIVE	0.2496.738		0	5.739	0.043	0 7.607
Stage 2	-0.8	10.536	2.623	ACTIVE	0.2496.738		0	7.652	0.043	0 10.276
Stage 2	-1	13.57	3.379	ACTIVE	0.2496.738		0	9.565	0.043	0 12.944
Stage 2	-1.2	16.183	4.029	ACTIVE	0.2496.738		0	11.478	0.043	0 15.508
Stage 2	-1.4	18.71	4.659	ACTIVE	0.2496.738		0	13.391	0.043	0 18.05
Stage 2	-1.6	21.328	5.311	ACTIVE	0.2496.738		0	15.304	0.043	0 20.615
Stage 2	-1.8	23.767	5.918	ACTIVE	0.2496.738		0	17.217	0.043	0 23.135
Stage 2	-2	26.308	7.854	UL-RL	0.2496.738		0	19.13	0.043	0 26.985
Stage 2	-2.2	28.727	11.519	UL-RL	0.2496.738		0	21.043	0.043	0 32.563
Stage 2	-2.4	31.246	14.891	UL-RL	0.2496.738		0	22.957	0.043	0 37.847
Stage 2	-2.6	33.673	17.975	UL-RL	0.2496.738		0	24.87	0.043	0 42.844
Stage 2	-2.8	36.192	20.783	UL-RL	0.2496.738		0	26.783	0.043	0 47.566
Stage 2	-3	38.637	23.333	UL-RL	0.2496.738		0	28.696	0.043	0 52.029
Stage 2	-3.2	41.164	25.646	UL-RL	0.2496.738		0	30.609	0.043	0 56.254
Stage 2	-3.4	43.627	27.743	UL-RL	0.2496.738		0	32.522	0.043	0 60.265
Stage 2	-3.6	46.099	29.649	UL-RL	0.2496.738		0	34.435	0.043	0 64.084
Stage 2	-3.8	48.638	31.387	UL-RL	0.2496.738		0	36.348	0.043	0 67.735
Stage 2	-4	51.121	32.98	UL-RL	0.2496.738		0	38.261	0.043	0 71.241
Stage 2	-4.2	53.663	34.449	UL-RL	0.2496.738		0	40.174	0.043	0 74.623
Stage 2	-4.4	56.152	35.814	UL-RL	0.2496.738		0	42.087	0.043	0 77.901
Stage 2	-4.6	58.691	37.094	UL-RL	0.2496.738		0	44	0.043	0 81.094
Stage 2	-4.8	61.18	38.303	UL-RL	0.2496.738		0	45.913	0.043	0 84.216
Stage 2	-5	63.668	39.455	UL-RL	0.2496.738		0	47.826	0.043	0 87.281
Stage 2	-5.2	65.98	40.563	UL-RL	0.2496.738		0	49.739	0.043	0 90.302
Stage 2	-5.4	68.298	41.635	UL-RL	0.2496.738		0	51.652	0.043	0 93.287
Stage 2	-5.6	70.621	42.681	UL-RL	0.2496.738		0	53.565	0.043	0 96.246
Stage 2	-5.8	72.947	43.707	UL-RL	0.2496.738		0	55.478	0.043	0 99.185
Stage 2	-6	75.275	44.717	UL-RL	0.2496.738		0	57.391	0.043	0 102.109
Stage 2	-6.2	77.603	45.717	UL-RL	0.2496.738		0	59.304	0.043	0 105.022
Stage 2	-6.4	79.931	46.71	UL-RL	0.2496.738		0	61.217	0.043	0 107.927
Stage 2	-6.6	82.498	47.697	UL-RL	0.2496.738		0	63.13	0.043	0 110.827
Stage 2	-6.8	84.966	48.681	UL-RL	0.2496.738		0	65.043	0.043	0 113.724
Stage 2	-7	87.995	49.662	UL-RL	0.2496.738		0	66.956	0.043	0 116.619
Stage 2	-7.2	90.425	50.642	UL-RL	0.2496.738		0	68.87	0.043	0 119.512
Stage 2	-7.4	93.388	51.621	UL-RL	0.2496.738		0	70.783	0.043	0 122.404
Stage 2	-7.6	95.787	52.6	UL-RL	0.2496.738		0	72.696	0.043	0 125.295
Stage 2	-7.8	98.691	53.577	UL-RL	0.2496.738		0	74.609	0.043	0 128.186
Stage 2	-8	101.562	54.554	UL-RL	0.2496.738		0	76.522	0.043	0 131.076
Stage 2	-8.2	103.916	55.53	UL-RL	0.2496.738		0	78.435	0.043	0 133.965
Stage 2	-8.4	106.74	56.505	UL-RL	0.2496.738		0	80.348	0.043	0 136.853
Stage 2	-8.6	109.071	57.479	UL-RL	0.2496.738		0	82.261	0.043	0 139.74
Stage 2	-8.8	111.852	58.452	UL-RL	0.2496.738		0	84.174	0.043	0 142.626
Stage 2	-9	114.165	59.423	UL-RL	0.2496.738		0	86.087	0.043	0 145.51
Stage 2	-9.2	116.909	60.393	UL-RL	0.2496.738		0	88	0.043	0 148.393
Stage 2	-9.4	119.204	61.361	UL-RL	0.2496.738		0	89.913	0.043	0 151.274
Stage 2	-9.6	121.914	62.328	UL-RL	0.2496.738		0	91.826	0.043	0 154.154
Stage 2	-9.8	124.194	63.294	UL-RL	0.2496.738		0	93.739	0.043	0 157.033
Stage 2	-10	126.873	64.258	UL-RL	0.2496.738		0	95.652	0.043	0 159.91
Stage 2	-10.2	129.141	65.222	UL-RL	0.2496.738		0	97.565	0.043	0 162.787
Stage 2	-10.4	131.792	66.184	UL-RL	0.2496.738		0	99.478	0.043	0 165.662
Stage 2	-10.6	134.426	67.145	UL-RL	0.2496.738		0	101.391	0.043	0 168.536
Stage 2	-10.8	136.673	68.106	UL-RL	0.2496.738		0	103.304	0.043	0 171.41
Stage 2	-11	139.283	69.066	UL-RL	0.2496.738		0	105.217	0.043	0 174.283
Stage 2	-11.2	141.52	70.026	UL-RL	0.2496.738		0	107.13	0.043	0 177.156
Stage 2	-11.4	144.108	70.985	UL-RL	0.2496.738		0	109.043	0.043	0 180.028
Stage 2	-11.6	146.337	71.945	UL-RL	0.2496.738		0	110.956	0.043	0 182.901
Stage 2	-11.8	148.904	72.905	UL-RL	0.2496.738		0	112.87	0.043	0 185.774
Stage 2	-12	151.125	73.865	UL-RL	0.2496.738		0	114.783	0.043	0 188.648

Design Assumption: Nominal Risultati Terreno			Muro:	LEFT	Lato	RIGHT					
Stage	Z (m)	Sigma V (kPa)	Sigma H (kPa)	Stato	Ka	Kp	Coesione (kPa)	Pore (kPa)	Gradiente U* (kPa)	Peq (kPa)	
Stage 2	0	0	0	REMOVED	0	0	0	0	0	0	
Stage 2	-0.2	0	0	REMOVED	0	0	0	0	0	0	
Stage 2	-0.4	0	0	REMOVED	0	0	0	0	0	0	
Stage 2	-0.6	0	0	REMOVED	0	0	0	0	0	0	
Stage 2	-0.8	0	0	REMOVED	0	0	0	0	0	0	
Stage 2	-1	0	0	PASSIVE	0.2496.738		0	0	0	0	
Stage 2	-1.2	1.913	12.89	PASSIVE	0.2496.738		0	2.087	0.043	0	14.977
Stage 2	-1.4	3.826	21.591	V-C	0.2496.738		0	4.174	0.043	0	25.765
Stage 2	-1.6	5.739	23.066	V-C	0.2496.738		0	6.261	0.043	0	29.327
Stage 2	-1.8	7.652	24.495	V-C	0.2496.738		0	8.348	0.043	0	32.843
Stage 2	-2	9.565	25.893	V-C	0.2496.738		0	10.435	0.043	0	36.328
Stage 2	-2.2	11.478	27.267	V-C	0.2496.738		0	12.522	0.043	0	39.788
Stage 2	-2.4	13.391	28.62	V-C	0.2496.738		0	14.609	0.043	0	43.228
Stage 2	-2.6	15.304	29.953	V-C	0.2496.738		0	16.696	0.043	0	46.649
Stage 2	-2.8	17.217	31.268	V-C	0.2496.738		0	18.783	0.043	0	50.051
Stage 2	-3	19.13	32.564	V-C	0.2496.738		0	20.87	0.043	0	53.434
Stage 2	-3.2	21.043	33.84	V-C	0.2496.738		0	22.957	0.043	0	56.797
Stage 2	-3.4	22.957	35.095	V-C	0.2496.738		0	25.043	0.043	0	60.139
Stage 2	-3.6	24.87	36.289	UL-RL	0.2496.738		0	27.13	0.043	0	63.419
Stage 2	-3.8	26.783	37.412	UL-RL	0.2496.738		0	29.217	0.043	0	66.63
Stage 2	-4	28.696	38.541	UL-RL	0.2496.738		0	31.304	0.043	0	69.845
Stage 2	-4.2	30.609	39.669	UL-RL	0.2496.738		0	33.391	0.043	0	73.061
Stage 2	-4.4	32.522	40.793	UL-RL	0.2496.738		0	35.478	0.043	0	76.271
Stage 2	-4.6	34.435	41.907	UL-RL	0.2496.738		0	37.565	0.043	0	79.472
Stage 2	-4.8	36.348	43.009	UL-RL	0.2496.738		0	39.652	0.043	0	82.661
Stage 2	-5	38.261	44.097	UL-RL	0.2496.738		0	41.739	0.043	0	85.836
Stage 2	-5.2	40.174	45.167	UL-RL	0.2496.738		0	43.826	0.043	0	88.993
Stage 2	-5.4	42.087	46.22	UL-RL	0.2496.738		0	45.913	0.043	0	92.133
Stage 2	-5.6	44	47.255	UL-RL	0.2496.738		0	48	0.043	0	95.255
Stage 2	-5.8	45.913	48.271	UL-RL	0.2496.738		0	50.087	0.043	0	98.358
Stage 2	-6	47.826	49.247	UL-RL	0.2496.738		0	52.174	0.043	0	101.421
Stage 2	-6.2	49.739	50.196	UL-RL	0.2496.738		0	54.261	0.043	0	104.457
Stage 2	-6.4	51.652	51.126	UL-RL	0.2496.738		0	56.348	0.043	0	107.474
Stage 2	-6.6	53.565	52.04	UL-RL	0.2496.738		0	58.435	0.043	0	110.475
Stage 2	-6.8	55.478	52.938	UL-RL	0.2496.738		0	60.522	0.043	0	113.46
Stage 2	-7	57.391	53.821	UL-RL	0.2496.738		0	62.609	0.043	0	116.43
Stage 2	-7.2	59.304	54.69	UL-RL	0.2496.738		0	64.696	0.043	0	119.386
Stage 2	-7.4	61.217	55.548	UL-RL	0.2496.738		0	66.783	0.043	0	122.33
Stage 2	-7.6	63.13	56.394	UL-RL	0.2496.738		0	68.87	0.043	0	125.263
Stage 2	-7.8	65.043	57.23	UL-RL	0.2496.738		0	70.956	0.043	0	128.186
Stage 2	-8	66.956	58.057	UL-RL	0.2496.738		0	73.043	0.043	0	131.1
Stage 2	-8.2	68.87	58.876	UL-RL	0.2496.738		0	75.13	0.043	0	134.006
Stage 2	-8.4	70.783	59.689	UL-RL	0.2496.738		0	77.217	0.043	0	136.906
Stage 2	-8.6	72.696	60.495	UL-RL	0.2496.738		0	79.304	0.043	0	139.8
Stage 2	-8.8	74.609	61.297	UL-RL	0.2496.738		0	81.391	0.043	0	142.688
Stage 2	-9	76.522	62.094	UL-RL	0.2496.738		0	83.478	0.043	0	145.573
Stage 2	-9.2	78.435	62.888	UL-RL	0.2496.738		0	85.565	0.043	0	148.453
Stage 2	-9.4	80.348	63.679	UL-RL	0.2496.738		0	87.652	0.043	0	151.331
Stage 2	-9.6	82.261	64.467	UL-RL	0.2496.738		0	89.739	0.043	0	154.206
Stage 2	-9.8	84.174	65.253	UL-RL	0.2496.738		0	91.826	0.043	0	157.079
Stage 2	-10	86.087	66.037	UL-RL	0.2496.738		0	93.913	0.043	0	159.95
Stage 2	-10.2	88	66.82	UL-RL	0.2496.738		0	96	0.043	0	162.82
Stage 2	-10.4	89.913	67.603	UL-RL	0.2496.738		0	98.087	0.043	0	165.689
Stage 2	-10.6	91.826	68.384	UL-RL	0.2496.738		0	100.174	0.043	0	168.558
Stage 2	-10.8	93.739	69.165	UL-RL	0.2496.738		0	102.261	0.043	0	171.426
Stage 2	-11	95.652	69.945	UL-RL	0.2496.738		0	104.348	0.043	0	174.293
Stage 2	-11.2	97.565	70.726	UL-RL	0.2496.738		0	106.435	0.043	0	177.16
Stage 2	-11.4	99.478	71.506	UL-RL	0.2496.738		0	108.522	0.043	0	180.028
Stage 2	-11.6	101.391	72.286	UL-RL	0.2496.738		0	110.609	0.043	0	182.895
Stage 2	-11.8	103.304	73.067	UL-RL	0.2496.738		0	112.696	0.043	0	185.762
Stage 2	-12	105.217	73.848	UL-RL	0.2496.738		0	114.783	0.043	0	188.63

### Tabella Risultati Terreno Left Wall - Nominal - Stage 3

Design Assumption: Nominal Risultati Terreno				Muro:	LEFT	Lato	LEFT			
Stage	Z (m)	Sigma V (kPa)	Sigma H (kPa)	Stato	Ka	Kp	Coesione (kPa)	Pore (kPa)	Gradiente U* (kPa)	Peq (kPa)
Stage 3	0	0	0	ACTIVE	0.2496.738	0	0	0	0	0
Stage 3	-0.2	2.296	0.572	ACTIVE	0.2496.738	0	1.818	0.091	0	2.39
Stage 3	-0.4	4.964	1.236	ACTIVE	0.2496.738	0	3.636	0.091	0	4.872
Stage 3	-0.6	7.787	1.939	ACTIVE	0.2496.738	0	5.455	0.091	0	7.394
Stage 3	-0.8	10.915	2.718	ACTIVE	0.2496.738	0	7.273	0.091	0	9.991
Stage 3	-1	14.044	3.497	ACTIVE	0.2496.738	0	9.091	0.091	0	12.588
Stage 3	-1.2	16.752	4.171	ACTIVE	0.2496.738	0	10.909	0.091	0	15.08
Stage 3	-1.4	19.374	4.824	ACTIVE	0.2496.738	0	12.727	0.091	0	17.551
Stage 3	-1.6	22.087	5.5	ACTIVE	0.2496.738	0	14.545	0.091	0	20.045
Stage 3	-1.8	24.62	6.13	ACTIVE	0.2496.738	0	16.364	0.091	0	22.494
Stage 3	-2	27.256	6.787	ACTIVE	0.2496.738	0	18.182	0.091	0	24.969
Stage 3	-2.2	29.771	7.413	ACTIVE	0.2496.738	0	20	0.091	0	27.413
Stage 3	-2.4	32.384	8.064	ACTIVE	0.2496.738	0	21.818	0.091	0	29.882
Stage 3	-2.6	34.907	8.692	ACTIVE	0.2496.738	0	23.636	0.091	0	32.328
Stage 3	-2.8	37.52	9.343	ACTIVE	0.2496.738	0	25.455	0.091	0	34.797
Stage 3	-3	40.06	9.975	ACTIVE	0.2496.738	0	27.273	0.091	0	37.248
Stage 3	-3.2	42.681	10.628	ACTIVE	0.2496.738	0	29.091	0.091	0	39.719
Stage 3	-3.4	45.239	11.265	ACTIVE	0.2496.738	0	30.909	0.091	0	42.174
Stage 3	-3.6	47.806	11.904	ACTIVE	0.2496.738	0	32.727	0.091	0	44.631
Stage 3	-3.8	50.44	12.56	ACTIVE	0.2496.738	0	34.545	0.091	0	47.105
Stage 3	-4	53.018	13.202	ACTIVE	0.2496.738	0	36.364	0.091	0	49.565
Stage 3	-4.2	55.655	13.858	ACTIVE	0.2496.738	0	38.182	0.091	0	52.04
Stage 3	-4.4	58.239	14.501	ACTIVE	0.2496.738	0	40	0.091	0	54.501
Stage 3	-4.6	60.873	15.157	ACTIVE	0.2496.738	0	41.818	0.091	0	56.976
Stage 3	-4.8	63.457	15.801	ACTIVE	0.2496.738	0	43.636	0.091	0	59.437
Stage 3	-5	66.04	21.125	UL-RL	0.2496.738	0	45.455	0.091	0	66.579
Stage 3	-5.2	68.446	26.676	UL-RL	0.2496.738	0	47.273	0.091	0	73.949
Stage 3	-5.4	70.859	31.44	UL-RL	0.2496.738	0	49.091	0.091	0	80.531
Stage 3	-5.6	73.277	35.493	UL-RL	0.2496.738	0	50.909	0.091	0	86.402
Stage 3	-5.8	75.698	38.913	UL-RL	0.2496.738	0	52.727	0.091	0	91.641
Stage 3	-6	78.121	41.78	UL-RL	0.2496.738	0	54.545	0.091	0	96.325
Stage 3	-6.2	80.544	44.169	UL-RL	0.2496.738	0	56.364	0.091	0	100.533
Stage 3	-6.4	82.967	46.153	UL-RL	0.2496.738	0	58.182	0.091	0	104.335
Stage 3	-6.6	85.628	47.8	UL-RL	0.2496.738	0	60	0.091	0	107.8
Stage 3	-6.8	88.192	49.172	UL-RL	0.2496.738	0	61.818	0.091	0	110.99
Stage 3	-7	91.315	50.323	UL-RL	0.2496.738	0	63.636	0.091	0	113.96
Stage 3	-7.2	93.84	51.304	UL-RL	0.2496.738	0	65.455	0.091	0	116.758
Stage 3	-7.4	96.898	52.156	UL-RL	0.2496.738	0	67.273	0.091	0	119.429
Stage 3	-7.6	99.391	52.917	UL-RL	0.2496.738	0	69.091	0.091	0	122.008
Stage 3	-7.8	102.391	53.617	UL-RL	0.2496.738	0	70.909	0.091	0	124.526
Stage 3	-8	105.357	54.282	UL-RL	0.2496.738	0	72.727	0.091	0	127.009
Stage 3	-8.2	107.805	54.931	UL-RL	0.2496.738	0	74.545	0.091	0	129.477
Stage 3	-8.4	110.724	55.582	UL-RL	0.2496.738	0	76.364	0.091	0	131.945
Stage 3	-8.6	113.15	56.245	UL-RL	0.2496.738	0	78.182	0.091	0	134.427
Stage 3	-8.8	116.026	56.931	UL-RL	0.2496.738	0	80	0.091	0	136.931
Stage 3	-9	118.434	57.644	UL-RL	0.2496.738	0	81.818	0.091	0	139.462
Stage 3	-9.2	121.272	58.389	UL-RL	0.2496.738	0	83.636	0.091	0	142.025
Stage 3	-9.4	123.663	59.167	UL-RL	0.2496.738	0	85.455	0.091	0	144.621
Stage 3	-9.6	126.467	59.978	UL-RL	0.2496.738	0	87.273	0.091	0	147.25
Stage 3	-9.8	128.843	60.82	UL-RL	0.2496.738	0	89.091	0.091	0	149.911
Stage 3	-10	131.616	61.692	UL-RL	0.2496.738	0	90.909	0.091	0	152.601
Stage 3	-10.2	133.979	62.59	UL-RL	0.2496.738	0	92.727	0.091	0	155.317
Stage 3	-10.4	136.725	63.511	UL-RL	0.2496.738	0	94.545	0.091	0	158.057
Stage 3	-10.6	139.453	64.452	UL-RL	0.2496.738	0	96.364	0.091	0	160.816
Stage 3	-10.8	141.796	65.409	UL-RL	0.2496.738	0	98.182	0.091	0	163.591
Stage 3	-11	144.5	66.379	UL-RL	0.2496.738	0	100	0.091	0	166.379
Stage 3	-11.2	146.833	67.358	UL-RL	0.2496.738	0	101.818	0.091	0	169.176
Stage 3	-11.4	149.515	68.343	UL-RL	0.2496.738	0	103.636	0.091	0	171.979
Stage 3	-11.6	151.839	69.331	UL-RL	0.2496.738	0	105.454	0.091	0	174.786
Stage 3	-11.8	154.501	70.322	UL-RL	0.2496.738	0	107.273	0.091	0	177.595
Stage 3	-12	156.817	71.314	UL-RL	0.2496.738	0	109.091	0.091	0	180.405

Design Assumption: Nominal Risultati Terreno			Muro:	LEFT	Lato	RIGHT					
Stage	Z (m)	Sigma V (kPa)	Sigma H (kPa)	Stato	Ka	Kp	Coesione (kPa)	Pore (kPa)	Gradiente U* (kPa)	Peq (kPa)	
Stage 3	0	0	0	REMOVED	0	0	0	0	0	0	
Stage 3	-0.2	0	0	REMOVED	0	0	0	0	0	0	
Stage 3	-0.4	0	0	REMOVED	0	0	0	0	0	0	
Stage 3	-0.6	0	0	REMOVED	0	0	0	0	0	0	
Stage 3	-0.8	0	0	REMOVED	0	0	0	0	0	0	
Stage 3	-1	0	0	REMOVED	0	0	0	0	0	0	
Stage 3	-1.2	0	0	REMOVED	0	0	0	0	0	0	
Stage 3	-1.4	0	0	REMOVED	0	0	0	0	0	0	
Stage 3	-1.6	0	0	REMOVED	0	0	0	0	0	0	
Stage 3	-1.8	0	0	REMOVED	0	0	0	0	0	0	
Stage 3	-2	0	0	PASSIVE	0.2496.738		0	0	0	0	
Stage 3	-2.2	1.818	12.251	PASSIVE	0.2496.738		0	2.182	0.091	0	14.433
Stage 3	-2.4	3.636	24.502	PASSIVE	0.2496.738		0	4.364	0.091	0	28.865
Stage 3	-2.6	5.455	36.753	PASSIVE	0.2496.738		0	6.545	0.091	0	43.298
Stage 3	-2.8	7.273	49.004	PASSIVE	0.2496.738		0	8.727	0.091	0	57.731
Stage 3	-3	9.091	49.923	V-C	0.2496.738		0	10.909	0.091	0	60.832
Stage 3	-3.2	10.909	49.042	V-C	0.2496.738		0	13.091	0.091	0	62.133
Stage 3	-3.4	12.727	48.261	V-C	0.2496.738		0	15.273	0.091	0	63.534
Stage 3	-3.6	14.545	47.591	V-C	0.2496.738		0	17.455	0.091	0	65.046
Stage 3	-3.8	16.364	47.041	V-C	0.2496.738		0	19.636	0.091	0	66.677
Stage 3	-4	18.182	46.617	V-C	0.2496.738		0	21.818	0.091	0	68.435
Stage 3	-4.2	20	46.323	V-C	0.2496.738		0	24	0.091	0	70.323
Stage 3	-4.4	21.818	46.159	V-C	0.2496.738		0	26.182	0.091	0	72.34
Stage 3	-4.6	23.636	46.124	V-C	0.2496.738		0	28.364	0.091	0	74.487
Stage 3	-4.8	25.455	46.215	V-C	0.2496.738		0	30.545	0.091	0	76.76
Stage 3	-5	27.273	46.425	V-C	0.2496.738		0	32.727	0.091	0	79.153
Stage 3	-5.2	29.091	46.749	V-C	0.2496.738		0	34.909	0.091	0	81.658
Stage 3	-5.4	30.909	47.175	V-C	0.2496.738		0	37.091	0.091	0	84.266
Stage 3	-5.6	32.727	47.694	V-C	0.2496.738		0	39.273	0.091	0	86.967
Stage 3	-5.8	34.545	47.917	UL-RL	0.2496.738		0	41.455	0.091	0	89.371
Stage 3	-6	36.364	47.986	UL-RL	0.2496.738		0	43.636	0.091	0	91.623
Stage 3	-6.2	38.182	48.258	UL-RL	0.2496.738		0	45.818	0.091	0	94.076
Stage 3	-6.4	40	48.708	UL-RL	0.2496.738		0	48	0.091	0	96.708
Stage 3	-6.6	41.818	49.306	UL-RL	0.2496.738		0	50.182	0.091	0	99.487
Stage 3	-6.8	43.636	50.021	UL-RL	0.2496.738		0	52.364	0.091	0	102.385
Stage 3	-7	45.455	50.83	UL-RL	0.2496.738		0	54.545	0.091	0	105.375
Stage 3	-7.2	47.273	51.708	UL-RL	0.2496.738		0	56.727	0.091	0	108.436
Stage 3	-7.4	49.091	52.637	UL-RL	0.2496.738		0	58.909	0.091	0	111.546
Stage 3	-7.6	50.909	53.599	UL-RL	0.2496.738		0	61.091	0.091	0	114.69
Stage 3	-7.8	52.727	54.581	UL-RL	0.2496.738		0	63.273	0.091	0	117.853
Stage 3	-8	54.545	55.57	UL-RL	0.2496.738		0	65.455	0.091	0	121.025
Stage 3	-8.2	56.364	56.558	UL-RL	0.2496.738		0	67.636	0.091	0	124.195
Stage 3	-8.4	58.182	57.538	UL-RL	0.2496.738		0	69.818	0.091	0	127.356
Stage 3	-8.6	60	58.505	UL-RL	0.2496.738		0	72	0.091	0	130.505
Stage 3	-8.8	61.818	59.455	UL-RL	0.2496.738		0	74.182	0.091	0	133.637
Stage 3	-9	63.636	60.385	UL-RL	0.2496.738		0	76.364	0.091	0	136.749
Stage 3	-9.2	65.455	61.296	UL-RL	0.2496.738		0	78.545	0.091	0	139.841
Stage 3	-9.4	67.273	62.186	UL-RL	0.2496.738		0	80.727	0.091	0	142.913
Stage 3	-9.6	69.091	63.056	UL-RL	0.2496.738		0	82.909	0.091	0	145.965
Stage 3	-9.8	70.909	63.907	UL-RL	0.2496.738		0	85.091	0.091	0	148.998
Stage 3	-10	72.727	64.741	UL-RL	0.2496.738		0	87.273	0.091	0	152.014
Stage 3	-10.2	74.545	65.56	UL-RL	0.2496.738		0	89.455	0.091	0	155.014
Stage 3	-10.4	76.364	66.366	UL-RL	0.2496.738		0	91.636	0.091	0	158.002
Stage 3	-10.6	78.182	67.16	UL-RL	0.2496.738		0	93.818	0.091	0	160.978
Stage 3	-10.8	80	67.946	UL-RL	0.2496.738		0	96	0.091	0	163.946
Stage 3	-11	81.818	68.724	UL-RL	0.2496.738		0	98.182	0.091	0	166.906
Stage 3	-11.2	83.636	69.498	UL-RL	0.2496.738		0	100.364	0.091	0	169.862
Stage 3	-11.4	85.454	70.268	UL-RL	0.2496.738		0	102.545	0.091	0	172.814
Stage 3	-11.6	87.273	71.036	UL-RL	0.2496.738		0	104.727	0.091	0	175.764
Stage 3	-11.8	89.091	71.804	UL-RL	0.2496.738		0	106.909	0.091	0	178.713
Stage 3	-12	90.909	72.571	UL-RL	0.2496.738		0	109.091	0.091	0	181.662

## Tabella Risultati Terreno Left Wall - Nominal - Stage 4

Design Assumption: Nominal Risultati Terreno				Muro:	LEFT	Lato	LEFT				
Stage	Z (m)	Sigma V (kPa)	Sigma H (kPa)	Stato	Ka	Kp	Coesione (kPa)	Pore (kPa)	Gradiente U* (kPa)	Peq (kPa)	
Stage 4	0	0	0	PASSIVE	0.2496.738		0	0	0	0	
Stage 4	-0.2	2.4	3.597	UL-RL	0.2496.738		0	1.714	0.143	5.312	
Stage 4	-0.4	5.172	4.648	UL-RL	0.2496.738		0	3.429	0.143	8.077	
Stage 4	-0.6	8.099	5.736	UL-RL	0.2496.738		0	5.143	0.143	10.879	
Stage 4	-0.8	11.331	6.895	UL-RL	0.2496.738		0	6.857	0.143	13.752	
Stage 4	-1	14.564	8.045	UL-RL	0.2496.738		0	8.571	0.143	16.616	
Stage 4	-1.2	17.375	9.074	UL-RL	0.2496.738		0	10.286	0.143	19.36	
Stage 4	-1.4	20.101	10.058	UL-RL	0.2496.738		0	12	0.143	22.058	
Stage 4	-1.6	22.918	11.029	UL-RL	0.2496.738		0	13.714	0.143	24.743	
Stage 4	-1.8	25.556	11.908	UL-RL	0.2496.738		0	15.429	0.143	27.337	
Stage 4	-2	28.295	12.75	UL-RL	0.2496.738		0	17.143	0.143	29.893	
Stage 4	-2.2	30.913	13.483	UL-RL	0.2496.738		0	18.857	0.143	32.34	
Stage 4	-2.4	33.631	14.139	UL-RL	0.2496.738		0	20.571	0.143	34.711	
Stage 4	-2.6	36.257	14.642	UL-RL	0.2496.738		0	22.286	0.143	36.928	
Stage 4	-2.8	38.975	14.998	UL-RL	0.2496.738		0	24	0.143	38.998	
Stage 4	-3	41.619	15.138	UL-RL	0.2496.738		0	25.714	0.143	40.852	
Stage 4	-3.2	44.344	15.078	UL-RL	0.2496.738		0	27.429	0.143	42.506	
Stage 4	-3.4	47.005	14.847	UL-RL	0.2496.738		0	29.143	0.143	43.99	
Stage 4	-3.6	49.676	14.531	UL-RL	0.2496.738		0	30.857	0.143	45.389	
Stage 4	-3.8	52.414	14.196	UL-RL	0.2496.738		0	32.571	0.143	46.767	
Stage 4	-4	55.096	13.847	UL-RL	0.2496.738		0	34.286	0.143	48.132	
Stage 4	-4.2	57.837	14.401	ACTIVE	0.2496.738		0	36	0.143	50.401	
Stage 4	-4.4	60.524	15.071	ACTIVE	0.2496.738		0	37.714	0.143	52.785	
Stage 4	-4.6	63.262	15.752	ACTIVE	0.2496.738		0	39.429	0.143	55.181	
Stage 4	-4.8	65.95	16.422	ACTIVE	0.2496.738		0	41.143	0.143	57.564	
Stage 4	-5	68.637	17.628	UL-RL	0.2496.738		0	42.857	0.143	60.485	
Stage 4	-5.2	71.148	22.597	UL-RL	0.2496.738		0	44.571	0.143	67.169	
Stage 4	-5.4	73.665	26.867	UL-RL	0.2496.738		0	46.286	0.143	73.153	
Stage 4	-5.6	76.186	30.512	UL-RL	0.2496.738		0	48	0.143	78.512	
Stage 4	-5.8	78.711	33.606	UL-RL	0.2496.738		0	49.714	0.143	83.32	
Stage 4	-6	81.237	36.221	UL-RL	0.2496.738		0	51.429	0.143	87.65	
Stage 4	-6.2	83.765	38.429	UL-RL	0.2496.738		0	53.143	0.143	91.572	
Stage 4	-6.4	86.291	40.296	UL-RL	0.2496.738		0	54.857	0.143	95.153	
Stage 4	-6.6	89.057	41.881	UL-RL	0.2496.738		0	56.571	0.143	98.452	
Stage 4	-6.8	91.724	43.241	UL-RL	0.2496.738		0	58.286	0.143	101.526	
Stage 4	-7	94.951	44.423	UL-RL	0.2496.738		0	60	0.143	104.423	
Stage 4	-7.2	97.581	45.472	UL-RL	0.2496.738		0	61.714	0.143	107.187	
Stage 4	-7.4	100.742	46.424	UL-RL	0.2496.738		0	63.429	0.143	109.853	
Stage 4	-7.6	103.339	47.311	UL-RL	0.2496.738		0	65.143	0.143	112.454	
Stage 4	-7.8	106.443	48.157	UL-RL	0.2496.738		0	66.857	0.143	115.014	
Stage 4	-8	109.513	48.985	UL-RL	0.2496.738		0	68.571	0.143	117.556	
Stage 4	-8.2	112.065	49.81	UL-RL	0.2496.738		0	70.286	0.143	120.095	
Stage 4	-8.4	115.087	50.645	UL-RL	0.2496.738		0	72	0.143	122.645	
Stage 4	-8.6	117.618	51.501	UL-RL	0.2496.738		0	73.714	0.143	125.215	
Stage 4	-8.8	120.598	52.382	UL-RL	0.2496.738		0	75.429	0.143	127.811	
Stage 4	-9	123.109	53.294	UL-RL	0.2496.738		0	77.143	0.143	130.437	
Stage 4	-9.2	126.052	54.238	UL-RL	0.2496.738		0	78.857	0.143	133.095	
Stage 4	-9.4	128.546	55.215	UL-RL	0.2496.738		0	80.571	0.143	135.786	
Stage 4	-9.6	131.454	56.224	UL-RL	0.2496.738		0	82.286	0.143	138.509	
Stage 4	-9.8	133.934	57.262	UL-RL	0.2496.738		0	84	0.143	141.262	
Stage 4	-10	136.811	58.328	UL-RL	0.2496.738		0	85.714	0.143	144.042	
Stage 4	-10.2	139.278	59.418	UL-RL	0.2496.738		0	87.429	0.143	146.846	
Stage 4	-10.4	142.127	60.528	UL-RL	0.2496.738		0	89.143	0.143	149.671	
Stage 4	-10.6	144.96	61.657	UL-RL	0.2496.738		0	90.857	0.143	152.514	
Stage 4	-10.8	147.406	62.799	UL-RL	0.2496.738		0	92.571	0.143	155.37	
Stage 4	-11	150.214	63.952	UL-RL	0.2496.738		0	94.286	0.143	158.238	
Stage 4	-11.2	152.651	65.114	UL-RL	0.2496.738		0	96	0.143	161.114	
Stage 4	-11.4	155.437	66.28	UL-RL	0.2496.738		0	97.714	0.143	163.995	
Stage 4	-11.6	157.865	67.451	UL-RL	0.2496.738		0	99.428	0.143	166.879	
Stage 4	-11.8	160.631	68.622	UL-RL	0.2496.738		0	101.143	0.143	169.765	
Stage 4	-12	163.05	69.795	UL-RL	0.2496.738		0	102.857	0.143	172.652	



Design Assumption: Nominal Risultati Terreno			Muro:	LEFT	Lato	RIGHT					
Stage	Z (m)	Sigma V (kPa)	Sigma H (kPa)	Stato	Ka	Kp	Coesione (kPa)	Pore (kPa)	Gradiente U* (kPa)	Peq (kPa)	
Stage 4	0	0	0	REMOVED	0	0	0	0	0	0	0
Stage 4	-0.2	0	0	REMOVED	0	0	0	0	0	0	0
Stage 4	-0.4	0	0	REMOVED	0	0	0	0	0	0	0
Stage 4	-0.6	0	0	REMOVED	0	0	0	0	0	0	0
Stage 4	-0.8	0	0	REMOVED	0	0	0	0	0	0	0
Stage 4	-1	0	0	REMOVED	0	0	0	0	0	0	0
Stage 4	-1.2	0	0	REMOVED	0	0	0	0	0	0	0
Stage 4	-1.4	0	0	REMOVED	0	0	0	0	0	0	0
Stage 4	-1.6	0	0	REMOVED	0	0	0	0	0	0	0
Stage 4	-1.8	0	0	REMOVED	0	0	0	0	0	0	0
Stage 4	-2	0	0	REMOVED	0	0	0	0	0	0	0
Stage 4	-2.2	0	0	REMOVED	0	0	0	0	0	0	0
Stage 4	-2.4	0	0	REMOVED	0	0	0	0	0	0	0
Stage 4	-2.6	0	0	REMOVED	0	0	0	0	0	0	0
Stage 4	-2.8	0	0	REMOVED	0	0	0	0	0	0	0
Stage 4	-3	0	0	PASSIVE	0.2496.738		0	0	0	0	0
Stage 4	-3.2	1.714	9.752	UL-RL	0.2496.738		0	2.286	0.143	0	12.037
Stage 4	-3.4	3.429	21.76	UL-RL	0.2496.738		0	4.571	0.143	0	26.331
Stage 4	-3.6	5.143	33.811	UL-RL	0.2496.738		0	6.857	0.143	0	40.668
Stage 4	-3.8	6.857	42.321	UL-RL	0.2496.738		0	9.143	0.143	0	51.464
Stage 4	-4	8.571	42.587	UL-RL	0.2496.738		0	11.429	0.143	0	54.016
Stage 4	-4.2	10.286	42.923	UL-RL	0.2496.738		0	13.714	0.143	0	56.638
Stage 4	-4.4	12	43.333	UL-RL	0.2496.738		0	16	0.143	0	59.333
Stage 4	-4.6	13.714	43.816	UL-RL	0.2496.738		0	18.286	0.143	0	62.102
Stage 4	-4.8	15.429	44.368	UL-RL	0.2496.738		0	20.571	0.143	0	64.94
Stage 4	-5	17.143	44.984	UL-RL	0.2496.738		0	22.857	0.143	0	67.841
Stage 4	-5.2	18.857	45.658	UL-RL	0.2496.738		0	25.143	0.143	0	70.801
Stage 4	-5.4	20.571	46.383	UL-RL	0.2496.738		0	27.429	0.143	0	73.812
Stage 4	-5.6	22.286	47.152	UL-RL	0.2496.738		0	29.714	0.143	0	76.866
Stage 4	-5.8	24	47.578	UL-RL	0.2496.738		0	32	0.143	0	79.578
Stage 4	-6	25.714	47.809	UL-RL	0.2496.738		0	34.286	0.143	0	82.095
Stage 4	-6.2	27.429	48.204	UL-RL	0.2496.738		0	36.571	0.143	0	84.775
Stage 4	-6.4	29.143	48.742	UL-RL	0.2496.738		0	38.857	0.143	0	87.599
Stage 4	-6.6	30.857	49.397	UL-RL	0.2496.738		0	41.143	0.143	0	90.54
Stage 4	-6.8	32.571	50.143	UL-RL	0.2496.738		0	43.429	0.143	0	93.572
Stage 4	-7	34.286	50.958	UL-RL	0.2496.738		0	45.714	0.143	0	96.672
Stage 4	-7.2	36	51.823	UL-RL	0.2496.738		0	48	0.143	0	99.823
Stage 4	-7.4	37.714	52.721	UL-RL	0.2496.738		0	50.286	0.143	0	103.006
Stage 4	-7.6	39.429	53.637	UL-RL	0.2496.738		0	52.571	0.143	0	106.209
Stage 4	-7.8	41.143	54.562	UL-RL	0.2496.738		0	54.857	0.143	0	109.419
Stage 4	-8	42.857	55.485	UL-RL	0.2496.738		0	57.143	0.143	0	112.628
Stage 4	-8.2	44.571	56.399	UL-RL	0.2496.738		0	59.429	0.143	0	115.828
Stage 4	-8.4	46.286	57.3	UL-RL	0.2496.738		0	61.714	0.143	0	119.014
Stage 4	-8.6	48	58.183	UL-RL	0.2496.738		0	64	0.143	0	122.183
Stage 4	-8.8	49.714	59.046	UL-RL	0.2496.738		0	66.286	0.143	0	125.332
Stage 4	-9	51.429	59.888	UL-RL	0.2496.738		0	68.571	0.143	0	128.459
Stage 4	-9.2	53.143	60.708	UL-RL	0.2496.738		0	70.857	0.143	0	131.566
Stage 4	-9.4	54.857	61.508	UL-RL	0.2496.738		0	73.143	0.143	0	134.651
Stage 4	-9.6	56.571	62.288	UL-RL	0.2496.738		0	75.429	0.143	0	137.717
Stage 4	-9.8	58.286	63.05	UL-RL	0.2496.738		0	77.714	0.143	0	140.764
Stage 4	-10	60	63.795	UL-RL	0.2496.738		0	80	0.143	0	143.795
Stage 4	-10.2	61.714	64.525	UL-RL	0.2496.738		0	82.286	0.143	0	146.811
Stage 4	-10.4	63.428	65.243	UL-RL	0.2496.738		0	84.571	0.143	0	149.814
Stage 4	-10.6	65.143	65.95	UL-RL	0.2496.738		0	86.857	0.143	0	152.807
Stage 4	-10.8	66.857	66.649	UL-RL	0.2496.738		0	89.143	0.143	0	155.792
Stage 4	-11	68.571	67.342	UL-RL	0.2496.738		0	91.428	0.143	0	158.77
Stage 4	-11.2	70.286	68.03	UL-RL	0.2496.738		0	93.714	0.143	0	161.744
Stage 4	-11.4	72	68.714	UL-RL	0.2496.738		0	96	0.143	0	164.714
Stage 4	-11.6	73.714	69.397	UL-RL	0.2496.738		0	98.286	0.143	0	167.682
Stage 4	-11.8	75.428	70.078	UL-RL	0.2496.738		0	100.571	0.143	0	170.65
Stage 4	-12	77.143	70.76	UL-RL	0.2496.738		0	102.857	0.143	0	173.617

## Tabella Risultati Terreno Left Wall - Nominal - Stage 5

Design Assumption: Nominal Risultati Terreno				Muro:	LEFT	Lato	LEFT			
Stage	Z (m)	Sigma V (kPa)	Sigma H (kPa)	Stato	Ka	Kp	Coesione (kPa)	Pore (kPa)	Gradiente U* (kPa)	Peq (kPa)
Stage 5	0	0	0	ACTIVE	0.2496.738		0	0	0	0
Stage 5	-0.2	2.514	1.209	UL-RL	0.2496.738		0	1.6	0.2	0 2.809
Stage 5	-0.4	5.401	2.881	UL-RL	0.2496.738		0	3.2	0.2	0 6.081
Stage 5	-0.6	8.442	4.591	UL-RL	0.2496.738		0	4.8	0.2	0 9.391
Stage 5	-0.8	11.788	6.375	UL-RL	0.2496.738		0	6.4	0.2	0 12.775
Stage 5	-1	15.135	8.155	UL-RL	0.2496.738		0	8	0.2	0 16.155
Stage 5	-1.2	18.061	9.822	UL-RL	0.2496.738		0	9.6	0.2	0 19.422
Stage 5	-1.4	20.901	11.452	UL-RL	0.2496.738		0	11.2	0.2	0 22.652
Stage 5	-1.6	23.833	13.084	UL-RL	0.2496.738		0	12.8	0.2	0 25.884
Stage 5	-1.8	26.584	14.638	UL-RL	0.2496.738		0	14.4	0.2	0 29.038
Stage 5	-2	29.438	16.172	UL-RL	0.2496.738		0	16	0.2	0 32.172
Stage 5	-2.2	32.171	17.614	UL-RL	0.2496.738		0	17.6	0.2	0 35.214
Stage 5	-2.4	35.002	19	UL-RL	0.2496.738		0	19.2	0.2	0 38.2
Stage 5	-2.6	37.743	20.25	UL-RL	0.2496.738		0	20.8	0.2	0 41.05
Stage 5	-2.8	40.575	21.365	UL-RL	0.2496.738		0	22.4	0.2	0 43.765
Stage 5	-3	43.333	22.24	UL-RL	0.2496.738		0	24	0.2	0 46.24
Stage 5	-3.2	46.172	22.829	UL-RL	0.2496.738		0	25.6	0.2	0 48.429
Stage 5	-3.4	48.948	23.04	UL-RL	0.2496.738		0	27.2	0.2	0 50.24
Stage 5	-3.6	51.734	22.938	UL-RL	0.2496.738		0	28.8	0.2	0 51.738
Stage 5	-3.8	54.586	22.584	UL-RL	0.2496.738		0	30.4	0.2	0 52.984
Stage 5	-4	57.382	21.964	UL-RL	0.2496.738		0	32	0.2	0 53.964
Stage 5	-4.2	60.237	21.982	UL-RL	0.2496.738		0	33.6	0.2	0 55.582
Stage 5	-4.4	63.039	21.908	UL-RL	0.2496.738		0	35.2	0.2	0 57.108
Stage 5	-4.6	65.891	21.707	UL-RL	0.2496.738		0	36.8	0.2	0 58.507
Stage 5	-4.8	68.693	21.407	UL-RL	0.2496.738		0	38.4	0.2	0 59.807
Stage 5	-5	71.495	21.598	UL-RL	0.2496.738		0	40	0.2	0 61.598
Stage 5	-5.2	74.119	25.541	UL-RL	0.2496.738		0	41.6	0.2	0 67.141
Stage 5	-5.4	76.75	28.801	UL-RL	0.2496.738		0	43.2	0.2	0 72.001
Stage 5	-5.6	79.386	31.473	UL-RL	0.2496.738		0	44.8	0.2	0 76.273
Stage 5	-5.8	82.025	33.649	UL-RL	0.2496.738		0	46.4	0.2	0 80.049
Stage 5	-6	84.666	35.414	UL-RL	0.2496.738		0	48	0.2	0 83.414
Stage 5	-6.2	87.307	36.846	UL-RL	0.2496.738		0	49.6	0.2	0 86.446
Stage 5	-6.4	89.949	38.017	UL-RL	0.2496.738		0	51.2	0.2	0 89.217
Stage 5	-6.6	92.828	38.99	UL-RL	0.2496.738		0	52.8	0.2	0 91.79
Stage 5	-6.8	95.61	39.82	UL-RL	0.2496.738		0	54.4	0.2	0 94.22
Stage 5	-7	98.951	40.555	UL-RL	0.2496.738		0	56	0.2	0 96.555
Stage 5	-7.2	101.695	41.234	UL-RL	0.2496.738		0	57.6	0.2	0 98.834
Stage 5	-7.4	104.97	41.891	UL-RL	0.2496.738		0	59.2	0.2	0 101.091
Stage 5	-7.6	107.682	42.551	UL-RL	0.2496.738		0	60.8	0.2	0 103.351
Stage 5	-7.8	110.9	43.236	UL-RL	0.2496.738		0	62.4	0.2	0 105.636
Stage 5	-8	114.084	43.96	UL-RL	0.2496.738		0	64	0.2	0 107.96
Stage 5	-8.2	116.751	44.734	UL-RL	0.2496.738		0	65.6	0.2	0 110.334
Stage 5	-8.4	119.887	45.565	UL-RL	0.2496.738		0	67.2	0.2	0 112.766
Stage 5	-8.6	122.532	46.458	UL-RL	0.2496.738		0	68.8	0.2	0 115.258
Stage 5	-8.8	125.626	47.412	UL-RL	0.2496.738		0	70.4	0.2	0 117.812
Stage 5	-9	128.252	48.428	UL-RL	0.2496.738		0	72	0.2	0 120.428
Stage 5	-9.2	131.309	49.502	UL-RL	0.2496.738		0	73.6	0.2	0 123.102
Stage 5	-9.4	133.917	50.63	UL-RL	0.2496.738		0	75.2	0.2	0 125.83
Stage 5	-9.6	136.94	51.808	UL-RL	0.2496.738		0	76.8	0.2	0 128.608
Stage 5	-9.8	139.534	53.031	UL-RL	0.2496.738		0	78.4	0.2	0 131.431
Stage 5	-10	142.526	54.292	UL-RL	0.2496.738		0	80	0.2	0 134.292
Stage 5	-10.2	145.106	55.587	UL-RL	0.2496.738		0	81.6	0.2	0 137.187
Stage 5	-10.4	148.07	56.909	UL-RL	0.2496.738		0	83.2	0.2	0 140.109
Stage 5	-10.6	151.017	58.254	UL-RL	0.2496.738		0	84.8	0.2	0 143.054
Stage 5	-10.8	153.577	59.617	UL-RL	0.2496.738		0	86.4	0.2	0 146.017
Stage 5	-11	156.5	60.993	UL-RL	0.2496.738		0	88	0.2	0 148.993
Stage 5	-11.2	159.051	62.378	UL-RL	0.2496.738		0	89.6	0.2	0 151.978
Stage 5	-11.4	161.951	63.77	UL-RL	0.2496.738		0	91.2	0.2	0 154.97
Stage 5	-11.6	164.493	65.166	UL-RL	0.2496.738		0	92.8	0.2	0 157.966
Stage 5	-11.8	167.374	66.563	UL-RL	0.2496.738		0	94.4	0.2	0 160.963
Stage 5	-12	169.908	67.962	UL-RL	0.2496.738		0	96	0.2	0 163.962

Design Assumption: Nominal Risultati Terreno			Muro:	LEFT	Lato	RIGHT					
Stage	Z (m)	Sigma V (kPa)	Sigma H (kPa)	Stato	Ka	Kp	Coesione (kPa)	Pore (kPa)	Gradiente U* (kPa)	Peq (kPa)	
Stage 5	0	0	0	REMOVED	0	0	0	0	0	0	
Stage 5	-0.2	0	0	REMOVED	0	0	0	0	0	0	
Stage 5	-0.4	0	0	REMOVED	0	0	0	0	0	0	
Stage 5	-0.6	0	0	REMOVED	0	0	0	0	0	0	
Stage 5	-0.8	0	0	REMOVED	0	0	0	0	0	0	
Stage 5	-1	0	0	REMOVED	0	0	0	0	0	0	
Stage 5	-1.2	0	0	REMOVED	0	0	0	0	0	0	
Stage 5	-1.4	0	0	REMOVED	0	0	0	0	0	0	
Stage 5	-1.6	0	0	REMOVED	0	0	0	0	0	0	
Stage 5	-1.8	0	0	REMOVED	0	0	0	0	0	0	
Stage 5	-2	0	0	REMOVED	0	0	0	0	0	0	
Stage 5	-2.2	0	0	REMOVED	0	0	0	0	0	0	
Stage 5	-2.4	0	0	REMOVED	0	0	0	0	0	0	
Stage 5	-2.6	0	0	REMOVED	0	0	0	0	0	0	
Stage 5	-2.8	0	0	REMOVED	0	0	0	0	0	0	
Stage 5	-3	0	0	REMOVED	0	0	0	0	0	0	
Stage 5	-3.2	0	0	REMOVED	0	0	0	0	0	0	
Stage 5	-3.4	0	0	REMOVED	0	0	0	0	0	0	
Stage 5	-3.6	0	0	REMOVED	0	0	0	0	0	0	
Stage 5	-3.8	0	0	REMOVED	0	0	0	0	0	0	
Stage 5	-4	0	0	ACTIVE	0.2496.738		0	0	0	0	
Stage 5	-4.2	1.6	7.609	UL-RL	0.2496.738		0	2.4	0.2	0	10.009
Stage 5	-4.4	3.2	18.787	UL-RL	0.2496.738		0	4.8	0.2	0	23.587
Stage 5	-4.6	4.8	30.035	UL-RL	0.2496.738		0	7.2	0.2	0	37.235
Stage 5	-4.8	6.4	37.728	UL-RL	0.2496.738		0	9.6	0.2	0	47.328
Stage 5	-5	8	39.082	UL-RL	0.2496.738		0	12	0.2	0	51.082
Stage 5	-5.2	9.6	40.448	UL-RL	0.2496.738		0	14.4	0.2	0	54.848
Stage 5	-5.4	11.2	41.82	UL-RL	0.2496.738		0	16.8	0.2	0	58.62
Stage 5	-5.6	12.8	43.192	UL-RL	0.2496.738		0	19.2	0.2	0	62.392
Stage 5	-5.8	14.4	44.176	UL-RL	0.2496.738		0	21.6	0.2	0	65.776
Stage 5	-6	16	44.915	UL-RL	0.2496.738		0	24	0.2	0	68.915
Stage 5	-6.2	17.6	45.769	UL-RL	0.2496.738		0	26.4	0.2	0	72.169
Stage 5	-6.4	19.2	46.718	UL-RL	0.2496.738		0	28.8	0.2	0	75.518
Stage 5	-6.6	20.8	47.733	UL-RL	0.2496.738		0	31.2	0.2	0	78.933
Stage 5	-6.8	22.4	48.793	UL-RL	0.2496.738		0	33.6	0.2	0	82.392
Stage 5	-7	24	49.875	UL-RL	0.2496.738		0	36	0.2	0	85.875
Stage 5	-7.2	25.6	50.963	UL-RL	0.2496.738		0	38.4	0.2	0	89.363
Stage 5	-7.4	27.2	52.044	UL-RL	0.2496.738		0	40.8	0.2	0	92.843
Stage 5	-7.6	28.8	53.105	UL-RL	0.2496.738		0	43.2	0.2	0	96.305
Stage 5	-7.8	30.4	54.139	UL-RL	0.2496.738		0	45.6	0.2	0	99.739
Stage 5	-8	32	55.141	UL-RL	0.2496.738		0	48	0.2	0	103.141
Stage 5	-8.2	33.6	56.105	UL-RL	0.2496.738		0	50.4	0.2	0	106.505
Stage 5	-8.4	35.2	57.03	UL-RL	0.2496.738		0	52.8	0.2	0	109.83
Stage 5	-8.6	36.8	57.915	UL-RL	0.2496.738		0	55.2	0.2	0	113.115
Stage 5	-8.8	38.4	58.761	UL-RL	0.2496.738		0	57.6	0.2	0	116.361
Stage 5	-9	40	59.569	UL-RL	0.2496.738		0	60	0.2	0	119.569
Stage 5	-9.2	41.6	60.341	UL-RL	0.2496.738		0	62.4	0.2	0	122.741
Stage 5	-9.4	43.2	61.08	UL-RL	0.2496.738		0	64.8	0.2	0	125.88
Stage 5	-9.6	44.8	61.79	UL-RL	0.2496.738		0	67.2	0.2	0	128.99
Stage 5	-9.8	46.4	62.473	UL-RL	0.2496.738		0	69.6	0.2	0	132.073
Stage 5	-10	48	63.133	UL-RL	0.2496.738		0	72	0.2	0	135.132
Stage 5	-10.2	49.6	63.772	UL-RL	0.2496.738		0	74.4	0.2	0	138.172
Stage 5	-10.4	51.2	64.395	UL-RL	0.2496.738		0	76.8	0.2	0	141.195
Stage 5	-10.6	52.8	65.005	UL-RL	0.2496.738		0	79.2	0.2	0	144.205
Stage 5	-10.8	54.4	65.603	UL-RL	0.2496.738		0	81.6	0.2	0	147.203
Stage 5	-11	56	66.194	UL-RL	0.2496.738		0	84	0.2	0	150.194
Stage 5	-11.2	57.6	66.778	UL-RL	0.2496.738		0	86.4	0.2	0	153.178
Stage 5	-11.4	59.2	67.358	UL-RL	0.2496.738		0	88.8	0.2	0	156.158
Stage 5	-11.6	60.8	67.935	UL-RL	0.2496.738		0	91.2	0.2	0	159.135
Stage 5	-11.8	62.4	68.511	UL-RL	0.2496.738		0	93.6	0.2	0	162.111
Stage 5	-12	64	69.086	UL-RL	0.2496.738		0	96	0.2	0	165.086

## Tabella Risultati Terreno Left Wall - Nominal - Stage 6

Design Assumption: Nominal Risultati Terreno				Muro:	LEFT	Lato	LEFT			
Stage	Z (m)	Sigma V (kPa)	Sigma H (kPa)	Stato	Ka	Kp	Coesione (kPa)	Pore (kPa)	Gradiente U* (kPa)	Peq (kPa)
Stage 6	0	0	0	ACTIVE	0.2496.738		0	0	0	0
Stage 6	-0.2	2.641	0.658	ACTIVE	0.2496.738		0	1.474	0.263	0
Stage 6	-0.4	5.653	1.408	ACTIVE	0.2496.738		0	2.947	0.263	0
Stage 6	-0.6	8.821	2.196	ACTIVE	0.2496.738		0	4.421	0.263	0
Stage 6	-0.8	12.293	3.061	ACTIVE	0.2496.738		0	5.895	0.263	0
Stage 6	-1	15.767	3.926	ACTIVE	0.2496.738		0	7.368	0.263	0
Stage 6	-1.2	18.819	4.686	ACTIVE	0.2496.738		0	8.842	0.263	0
Stage 6	-1.4	21.786	5.425	ACTIVE	0.2496.738		0	10.316	0.263	0
Stage 6	-1.6	24.843	6.186	ACTIVE	0.2496.738		0	11.789	0.263	0
Stage 6	-1.8	27.721	6.903	ACTIVE	0.2496.738		0	13.263	0.263	0
Stage 6	-2	30.701	7.645	ACTIVE	0.2496.738		0	14.737	0.263	0
Stage 6	-2.2	33.56	8.356	ACTIVE	0.2496.738		0	16.211	0.263	0
Stage 6	-2.4	36.518	9.093	ACTIVE	0.2496.738		0	17.684	0.263	0
Stage 6	-2.6	39.385	11.129	UL-RL	0.2496.738		0	19.158	0.263	0
Stage 6	-2.8	42.343	13.143	UL-RL	0.2496.738		0	20.632	0.263	0
Stage 6	-3	45.228	15.043	UL-RL	0.2496.738		0	22.105	0.263	0
Stage 6	-3.2	48.193	16.812	UL-RL	0.2496.738		0	23.579	0.263	0
Stage 6	-3.4	51.096	18.363	UL-RL	0.2496.738		0	25.053	0.263	0
Stage 6	-3.6	54.007	19.666	UL-RL	0.2496.738		0	26.526	0.263	0
Stage 6	-3.8	56.986	20.664	UL-RL	0.2496.738		0	28	0.263	0
Stage 6	-4	59.908	21.228	UL-RL	0.2496.738		0	29.474	0.263	0
Stage 6	-4.2	62.889	22.17	UL-RL	0.2496.738		0	30.947	0.263	0
Stage 6	-4.4	65.818	22.769	UL-RL	0.2496.738		0	32.421	0.263	0
Stage 6	-4.6	68.796	23.019	UL-RL	0.2496.738		0	33.895	0.263	0
Stage 6	-4.8	71.725	22.97	UL-RL	0.2496.738		0	35.368	0.263	0
Stage 6	-5	74.652	23.225	UL-RL	0.2496.738		0	36.842	0.263	0
Stage 6	-5.2	77.403	27.056	UL-RL	0.2496.738		0	38.316	0.263	0
Stage 6	-5.4	80.161	30.069	UL-RL	0.2496.738		0	39.789	0.263	0
Stage 6	-5.6	82.923	32.399	UL-RL	0.2496.738		0	41.263	0.263	0
Stage 6	-5.8	85.688	34.168	UL-RL	0.2496.738		0	42.737	0.263	0
Stage 6	-6	88.455	35.485	UL-RL	0.2496.738		0	44.211	0.263	0
Stage 6	-6.2	91.223	36.449	UL-RL	0.2496.738		0	45.684	0.263	0
Stage 6	-6.4	93.991	37.147	UL-RL	0.2496.738		0	47.158	0.263	0
Stage 6	-6.6	96.997	37.657	UL-RL	0.2496.738		0	48.632	0.263	0
Stage 6	-6.8	99.904	38.043	UL-RL	0.2496.738		0	50.105	0.263	0
Stage 6	-7	103.372	38.363	UL-RL	0.2496.738		0	51.579	0.263	0
Stage 6	-7.2	106.242	38.661	UL-RL	0.2496.738		0	53.053	0.263	0
Stage 6	-7.4	109.644	38.975	UL-RL	0.2496.738		0	54.526	0.263	0
Stage 6	-7.6	112.482	39.334	UL-RL	0.2496.738		0	56	0.263	0
Stage 6	-7.8	115.826	39.759	UL-RL	0.2496.738		0	57.474	0.263	0
Stage 6	-8	119.137	40.267	UL-RL	0.2496.738		0	58.947	0.263	0
Stage 6	-8.2	121.93	40.867	UL-RL	0.2496.738		0	60.421	0.263	0
Stage 6	-8.4	125.193	41.565	UL-RL	0.2496.738		0	61.895	0.263	0
Stage 6	-8.6	127.964	42.362	UL-RL	0.2496.738		0	63.368	0.263	0
Stage 6	-8.8	131.184	43.257	UL-RL	0.2496.738		0	64.842	0.263	0
Stage 6	-9	133.936	44.247	UL-RL	0.2496.738		0	66.316	0.263	0
Stage 6	-9.2	137.119	45.325	UL-RL	0.2496.738		0	67.789	0.263	0
Stage 6	-9.4	139.854	46.485	UL-RL	0.2496.738		0	69.263	0.263	0
Stage 6	-9.6	143.003	47.719	UL-RL	0.2496.738		0	70.737	0.263	0
Stage 6	-9.8	145.723	49.018	UL-RL	0.2496.738		0	72.21	0.263	0
Stage 6	-10	148.841	50.374	UL-RL	0.2496.738		0	73.684	0.263	0
Stage 6	-10.2	151.548	51.778	UL-RL	0.2496.738		0	75.158	0.263	0
Stage 6	-10.4	154.638	53.222	UL-RL	0.2496.738		0	76.632	0.263	0
Stage 6	-10.6	157.712	54.699	UL-RL	0.2496.738		0	78.105	0.263	0
Stage 6	-10.8	160.398	56.201	UL-RL	0.2496.738		0	79.579	0.263	0
Stage 6	-11	163.447	57.723	UL-RL	0.2496.738		0	81.053	0.263	0
Stage 6	-11.2	166.124	59.258	UL-RL	0.2496.738		0	82.526	0.263	0
Stage 6	-11.4	169.151	60.802	UL-RL	0.2496.738		0	84	0.263	0
Stage 6	-11.6	171.82	62.351	UL-RL	0.2496.738		0	85.474	0.263	0
Stage 6	-11.8	174.826	63.903	UL-RL	0.2496.738		0	86.947	0.263	0
Stage 6	-12	177.486	65.456	UL-RL	0.2496.738		0	88.421	0.263	0

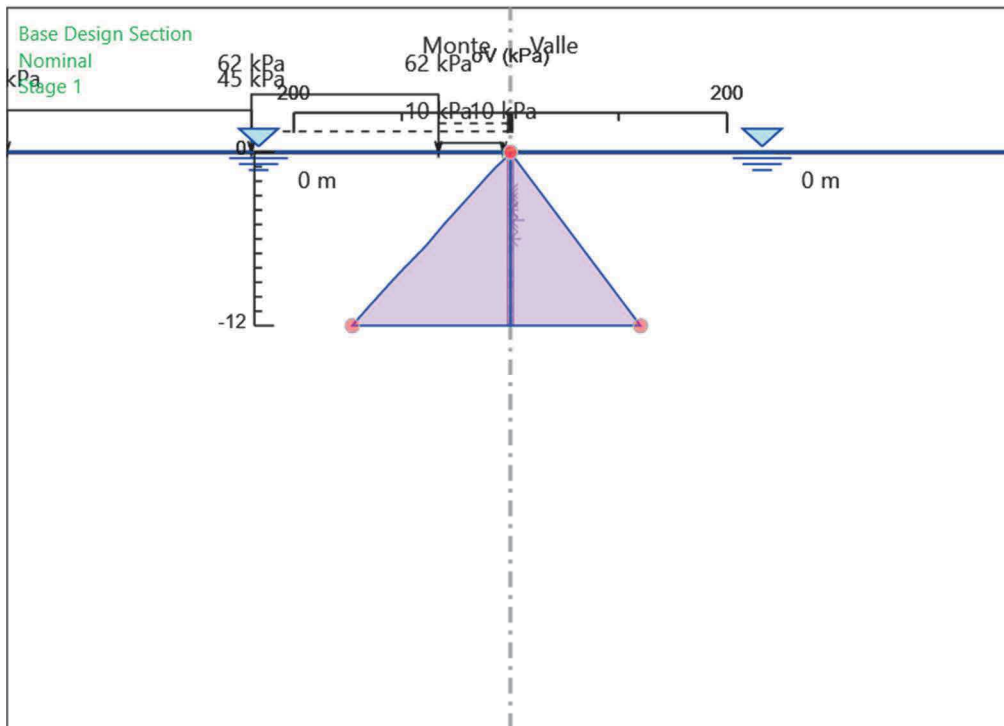
Design Assumption: Nominal Risultati Terreno			Muro:	LEFT	Lato	RIGHT					
Stage	Z (m)	Sigma V (kPa)	Sigma H (kPa)	Stato	Ka	Kp	Coesione (kPa)	Pore (kPa)	Gradiente U* (kPa)	Peq (kPa)	
Stage 6	0	0	0	REMOVED	0	0	0	0	0	0	0
Stage 6	-0.2	0	0	REMOVED	0	0	0	0	0	0	0
Stage 6	-0.4	0	0	REMOVED	0	0	0	0	0	0	0
Stage 6	-0.6	0	0	REMOVED	0	0	0	0	0	0	0
Stage 6	-0.8	0	0	REMOVED	0	0	0	0	0	0	0
Stage 6	-1	0	0	REMOVED	0	0	0	0	0	0	0
Stage 6	-1.2	0	0	REMOVED	0	0	0	0	0	0	0
Stage 6	-1.4	0	0	REMOVED	0	0	0	0	0	0	0
Stage 6	-1.6	0	0	REMOVED	0	0	0	0	0	0	0
Stage 6	-1.8	0	0	REMOVED	0	0	0	0	0	0	0
Stage 6	-2	0	0	REMOVED	0	0	0	0	0	0	0
Stage 6	-2.2	0	0	REMOVED	0	0	0	0	0	0	0
Stage 6	-2.4	0	0	REMOVED	0	0	0	0	0	0	0
Stage 6	-2.6	0	0	REMOVED	0	0	0	0	0	0	0
Stage 6	-2.8	0	0	REMOVED	0	0	0	0	0	0	0
Stage 6	-3	0	0	REMOVED	0	0	0	0	0	0	0
Stage 6	-3.2	0	0	REMOVED	0	0	0	0	0	0	0
Stage 6	-3.4	0	0	REMOVED	0	0	0	0	0	0	0
Stage 6	-3.6	0	0	REMOVED	0	0	0	0	0	0	0
Stage 6	-3.8	0	0	REMOVED	0	0	0	0	0	0	0
Stage 6	-4	0	0	REMOVED	0	0	0	0	0	0	0
Stage 6	-4.2	0	0	REMOVED	0	0	0	0	0	0	0
Stage 6	-4.4	0	0	REMOVED	0	0	0	0	0	0	0
Stage 6	-4.6	0	0	REMOVED	0	0	0	0	0	0	0
Stage 6	-4.8	0	0	REMOVED	0	0	0	0	0	0	0
Stage 6	-5	0	0	PASSIVE	0.2496.738		0	0	0	0	0
Stage 6	-5.2	1.474	9.81	UL-RL	0.2496.738		0	2.526	0.263	0	12.337
Stage 6	-5.4	2.947	19.71	UL-RL	0.2496.738		0	5.053	0.263	0	24.763
Stage 6	-5.6	4.421	29.618	UL-RL	0.2496.738		0	7.579	0.263	0	37.197
Stage 6	-5.8	5.895	39.534	UL-RL	0.2496.738		0	10.105	0.263	0	49.639
Stage 6	-6	7.368	40.843	UL-RL	0.2496.738		0	12.632	0.263	0	53.474
Stage 6	-6.2	8.842	42.13	UL-RL	0.2496.738		0	15.158	0.263	0	57.288
Stage 6	-6.4	10.316	43.475	UL-RL	0.2496.738		0	17.684	0.263	0	61.159
Stage 6	-6.6	11.789	44.854	UL-RL	0.2496.738		0	20.21	0.263	0	65.064
Stage 6	-6.8	13.263	46.245	UL-RL	0.2496.738		0	22.737	0.263	0	68.982
Stage 6	-7	14.737	47.629	UL-RL	0.2496.738		0	25.263	0.263	0	72.892
Stage 6	-7.2	16.21	48.988	UL-RL	0.2496.738		0	27.789	0.263	0	76.778
Stage 6	-7.4	17.684	50.31	UL-RL	0.2496.738		0	30.316	0.263	0	80.626
Stage 6	-7.6	19.158	51.584	UL-RL	0.2496.738		0	32.842	0.263	0	84.426
Stage 6	-7.8	20.632	52.803	UL-RL	0.2496.738		0	35.368	0.263	0	88.171
Stage 6	-8	22.105	53.961	UL-RL	0.2496.738		0	37.895	0.263	0	91.855
Stage 6	-8.2	23.579	55.055	UL-RL	0.2496.738		0	40.421	0.263	0	95.476
Stage 6	-8.4	25.053	56.086	UL-RL	0.2496.738		0	42.947	0.263	0	99.034
Stage 6	-8.6	26.526	57.054	UL-RL	0.2496.738		0	45.474	0.263	0	102.528
Stage 6	-8.8	28	57.962	UL-RL	0.2496.738		0	48	0.263	0	105.962
Stage 6	-9	29.474	58.812	UL-RL	0.2496.738		0	50.526	0.263	0	109.338
Stage 6	-9.2	30.947	59.609	UL-RL	0.2496.738		0	53.053	0.263	0	112.662
Stage 6	-9.4	32.421	60.357	UL-RL	0.2496.738		0	55.579	0.263	0	115.936
Stage 6	-9.6	33.895	61.062	UL-RL	0.2496.738		0	58.105	0.263	0	119.167
Stage 6	-9.8	35.368	61.727	UL-RL	0.2496.738		0	60.632	0.263	0	122.358
Stage 6	-10	36.842	62.359	UL-RL	0.2496.738		0	63.158	0.263	0	125.516
Stage 6	-10.2	38.316	62.961	UL-RL	0.2496.738		0	65.684	0.263	0	128.646
Stage 6	-10.4	39.789	63.54	UL-RL	0.2496.738		0	68.21	0.263	0	131.75
Stage 6	-10.6	41.263	64.098	UL-RL	0.2496.738		0	70.737	0.263	0	134.835
Stage 6	-10.8	42.737	64.641	UL-RL	0.2496.738		0	73.263	0.263	0	137.904
Stage 6	-11	44.21	65.172	UL-RL	0.2496.738		0	75.789	0.263	0	140.961
Stage 6	-11.2	45.684	65.694	UL-RL	0.2496.738		0	78.316	0.263	0	144.009
Stage 6	-11.4	47.158	66.209	UL-RL	0.2496.738		0	80.842	0.263	0	147.051
Stage 6	-11.6	48.632	66.72	UL-RL	0.2496.738		0	83.368	0.263	0	150.088
Stage 6	-11.8	50.105	67.228	UL-RL	0.2496.738		0	85.895	0.263	0	153.123
Stage 6	-12	51.579	67.735	UL-RL	0.2496.738		0	88.421	0.263	0	156.156

## Tabella Risultati Terreno Left Wall - Nominal - Stage 7

Design Assumption: Nominal Risultati Terreno				Muro:	LEFT	Lato	LEFT			
Stage	Z (m)	Sigma V (kPa)	Sigma H (kPa)	Stato	Ka	Kp	Coesione (kPa)	Pore (kPa)	Gradiente U* (kPa)	Peq (kPa)
Stage 7	0	0	0	ACTIVE	0.2496.738		0	0	0	0
Stage 7	-0.2	2.781	0.728	UL-RL	0.2496.738		0	1.333	0.333	0
Stage 7	-0.4	5.934	1.53	UL-RL	0.2496.738		0	2.667	0.333	0
Stage 7	-0.6	9.242	2.37	UL-RL	0.2496.738		0	4	0.333	0
Stage 7	-0.8	12.855	3.286	UL-RL	0.2496.738		0	5.333	0.333	0
Stage 7	-1	16.468	4.202	UL-RL	0.2496.738		0	6.667	0.333	0
Stage 7	-1.2	19.661	5.013	UL-RL	0.2496.738		0	8	0.333	0
Stage 7	-1.4	22.768	5.802	UL-RL	0.2496.738		0	9.333	0.333	0
Stage 7	-1.6	25.966	6.614	UL-RL	0.2496.738		0	10.667	0.333	0
Stage 7	-1.8	28.984	7.381	UL-RL	0.2496.738		0	12	0.333	0
Stage 7	-2	32.105	8.173	UL-RL	0.2496.738		0	13.333	0.333	0
Stage 7	-2.2	35.104	9.286	UL-RL	0.2496.738		0	14.667	0.333	0
Stage 7	-2.4	38.202	17.113	UL-RL	0.2496.738		0	16	0.333	0
Stage 7	-2.6	41.21	26.245	UL-RL	0.2496.738		0	17.333	0.333	0
Stage 7	-2.8	44.308	31.519	UL-RL	0.2496.738		0	18.667	0.333	0
Stage 7	-3	47.333	35.743	UL-RL	0.2496.738		0	20	0.333	0
Stage 7	-3.2	50.439	39.879	UL-RL	0.2496.738		0	21.333	0.333	0
Stage 7	-3.4	53.482	43.893	UL-RL	0.2496.738		0	22.667	0.333	0
Stage 7	-3.6	56.534	47.773	UL-RL	0.2496.738		0	24	0.333	0
Stage 7	-3.8	59.652	51.493	UL-RL	0.2496.738		0	25.333	0.333	0
Stage 7	-4	62.715	54.874	UL-RL	0.2496.738		0	26.667	0.333	0
Stage 7	-4.2	65.837	58.276	UL-RL	0.2496.738		0	28	0.333	0
Stage 7	-4.4	68.905	61.412	UL-RL	0.2496.738		0	29.333	0.333	0
Stage 7	-4.6	72.024	64.191	UL-RL	0.2496.738		0	30.667	0.333	0
Stage 7	-4.8	75.093	66.538	UL-RL	0.2496.738		0	32	0.333	0
Stage 7	-5	78.161	68.579	V-C	0.2496.738		0	33.333	0.333	0
Stage 7	-5.2	81.053	71.414	V-C	0.2496.738		0	34.667	0.333	0
Stage 7	-5.4	83.95	73.593	V-C	0.2496.738		0	36	0.333	0
Stage 7	-5.6	86.853	75.168	V-C	0.2496.738		0	37.333	0.333	0
Stage 7	-5.8	89.758	76.18	V-C	0.2496.738		0	38.667	0.333	0
Stage 7	-6	92.666	76.658	V-C	0.2496.738		0	40	0.333	0
Stage 7	-6.2	95.574	76.641	V-C	0.2496.738		0	41.333	0.333	0
Stage 7	-6.4	98.482	76.219	V-C	0.2496.738		0	42.667	0.333	0
Stage 7	-6.6	101.628	75.486	V-C	0.2496.738		0	44	0.333	0
Stage 7	-6.8	104.676	74.528	V-C	0.2496.738		0	45.333	0.333	0
Stage 7	-7	108.284	73.418	V-C	0.2496.738		0	46.667	0.333	0
Stage 7	-7.2	111.295	72.219	V-C	0.2496.738		0	48	0.333	0
Stage 7	-7.4	114.837	70.987	V-C	0.2496.738		0	49.333	0.333	0
Stage 7	-7.6	117.816	69.766	V-C	0.2496.738		0	50.667	0.333	0
Stage 7	-7.8	121.3	68.592	V-C	0.2496.738		0	52	0.333	0
Stage 7	-8	124.751	67.496	V-C	0.2496.738		0	53.333	0.333	0
Stage 7	-8.2	127.684	66.499	V-C	0.2496.738		0	54.667	0.333	0
Stage 7	-8.4	131.087	65.618	V-C	0.2496.738		0	56	0.333	0
Stage 7	-8.6	133.999	64.863	V-C	0.2496.738		0	57.333	0.333	0
Stage 7	-8.8	137.36	64.242	V-C	0.2496.738		0	58.667	0.333	0
Stage 7	-9	140.252	61.552	UL-RL	0.2496.738		0	60	0.333	0
Stage 7	-9.2	143.575	58.697	UL-RL	0.2496.738		0	61.333	0.333	0
Stage 7	-9.4	146.451	56.227	UL-RL	0.2496.738		0	62.667	0.333	0
Stage 7	-9.6	149.74	54.118	UL-RL	0.2496.738		0	64	0.333	0
Stage 7	-9.8	152.6	52.341	UL-RL	0.2496.738		0	65.333	0.333	0
Stage 7	-10	155.859	50.862	UL-RL	0.2496.738		0	66.667	0.333	0
Stage 7	-10.2	158.706	49.643	UL-RL	0.2496.738		0	68	0.333	0
Stage 7	-10.4	161.937	48.649	UL-RL	0.2496.738		0	69.333	0.333	0
Stage 7	-10.6	165.15	47.84	UL-RL	0.2496.738		0	70.667	0.333	0
Stage 7	-10.8	167.977	47.181	UL-RL	0.2496.738		0	72	0.333	0
Stage 7	-11	171.167	46.637	UL-RL	0.2496.738		0	73.333	0.333	0
Stage 7	-11.2	173.984	46.176	UL-RL	0.2496.738		0	74.667	0.333	0
Stage 7	-11.4	177.151	45.771	UL-RL	0.2496.738		0	76	0.333	0
Stage 7	-11.6	179.96	45.4	UL-RL	0.2496.738		0	77.333	0.333	0
Stage 7	-11.8	183.107	45.594	ACTIVE	0.2496.738		0	78.667	0.333	0
Stage 7	-12	185.908	46.291	ACTIVE	0.2496.738		0	80	0.333	0

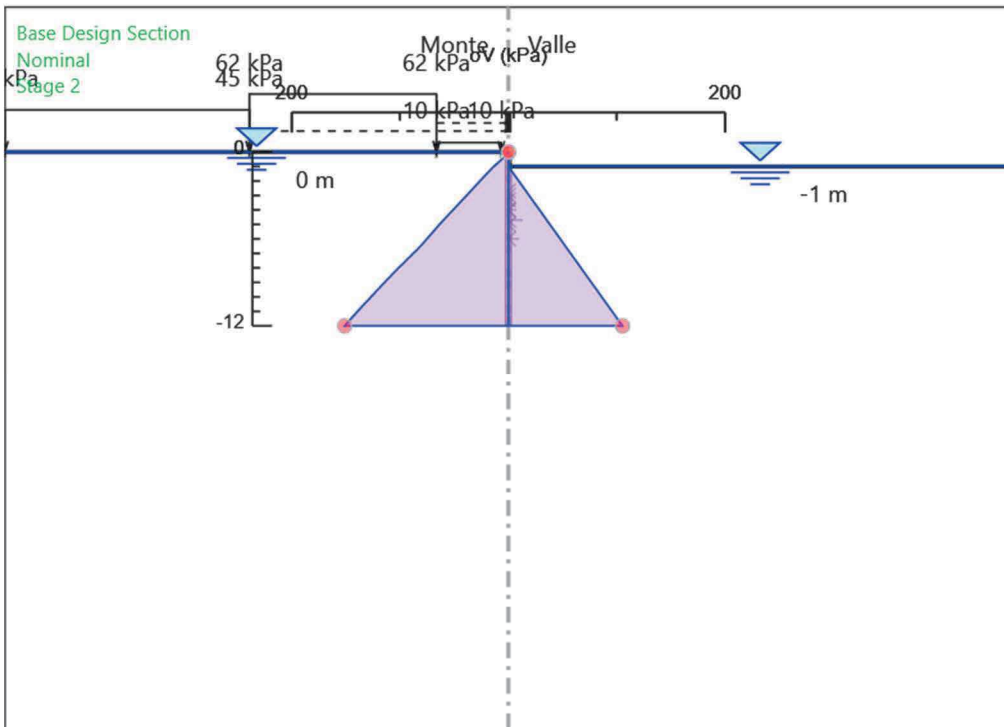
Design Assumption: Nominal Risultati Terreno			Muro:	LEFT	Lato	RIGHT					
Stage	Z (m)	Sigma V (kPa)	Sigma H (kPa)	Stato	Ka	Kp	Coesione (kPa)	Pore (kPa)	Gradiente U* (kPa)	Peq (kPa)	
Stage 7	0	0	0	REMOVED	0	0	0	0	0	0	0
Stage 7	-0.2	0	0	REMOVED	0	0	0	0	0	0	0
Stage 7	-0.4	0	0	REMOVED	0	0	0	0	0	0	0
Stage 7	-0.6	0	0	REMOVED	0	0	0	0	0	0	0
Stage 7	-0.8	0	0	REMOVED	0	0	0	0	0	0	0
Stage 7	-1	0	0	REMOVED	0	0	0	0	0	0	0
Stage 7	-1.2	0	0	REMOVED	0	0	0	0	0	0	0
Stage 7	-1.4	0	0	REMOVED	0	0	0	0	0	0	0
Stage 7	-1.6	0	0	REMOVED	0	0	0	0	0	0	0
Stage 7	-1.8	0	0	REMOVED	0	0	0	0	0	0	0
Stage 7	-2	0	0	REMOVED	0	0	0	0	0	0	0
Stage 7	-2.2	0	0	REMOVED	0	0	0	0	0	0	0
Stage 7	-2.4	0	0	REMOVED	0	0	0	0	0	0	0
Stage 7	-2.6	0	0	REMOVED	0	0	0	0	0	0	0
Stage 7	-2.8	0	0	REMOVED	0	0	0	0	0	0	0
Stage 7	-3	0	0	REMOVED	0	0	0	0	0	0	0
Stage 7	-3.2	0	0	REMOVED	0	0	0	0	0	0	0
Stage 7	-3.4	0	0	REMOVED	0	0	0	0	0	0	0
Stage 7	-3.6	0	0	REMOVED	0	0	0	0	0	0	0
Stage 7	-3.8	0	0	REMOVED	0	0	0	0	0	0	0
Stage 7	-4	0	0	REMOVED	0	0	0	0	0	0	0
Stage 7	-4.2	0	0	REMOVED	0	0	0	0	0	0	0
Stage 7	-4.4	0	0	REMOVED	0	0	0	0	0	0	0
Stage 7	-4.6	0	0	REMOVED	0	0	0	0	0	0	0
Stage 7	-4.8	0	0	REMOVED	0	0	0	0	0	0	0
Stage 7	-5	0	0	REMOVED	0	0	0	0	0	0	0
Stage 7	-5.2	0	0	REMOVED	0	0	0	0	0	0	0
Stage 7	-5.4	0	0	REMOVED	0	0	0	0	0	0	0
Stage 7	-5.6	0	0	REMOVED	0	0	0	0	0	0	0
Stage 7	-5.8	0	0	REMOVED	0	0	0	0	0	0	0
Stage 7	-6	0	0	REMOVED	0	0	0	0	0	0	0
Stage 7	-6.2	1.333	0.332	ACTIVE	0.2496.738		0	2.667	0.333	0	2.999
Stage 7	-6.4	2.667	0.664	ACTIVE	0.2496.738		0	5.333	0.333	0	5.997
Stage 7	-6.6	4	0.996	ACTIVE	0.2496.738		0	8	0.333	0	8.996
Stage 7	-6.8	5.333	1.328	ACTIVE	0.2496.738		0	10.667	0.333	0	11.995
Stage 7	-7	6.667	8.513	UL-RL	0.2496.738		0	13.333	0.333	0	21.847
Stage 7	-7.2	8	12.962	UL-RL	0.2496.738		0	16	0.333	0	28.962
Stage 7	-7.4	9.333	17.381	UL-RL	0.2496.738		0	18.667	0.333	0	36.048
Stage 7	-7.6	10.667	21.722	UL-RL	0.2496.738		0	21.333	0.333	0	43.055
Stage 7	-7.8	12	25.939	UL-RL	0.2496.738		0	24	0.333	0	49.939
Stage 7	-8	13.333	29.998	UL-RL	0.2496.738		0	26.667	0.333	0	56.664
Stage 7	-8.2	14.667	33.872	UL-RL	0.2496.738		0	29.333	0.333	0	63.205
Stage 7	-8.4	16	37.541	UL-RL	0.2496.738		0	32	0.333	0	69.541
Stage 7	-8.6	17.333	40.995	UL-RL	0.2496.738		0	34.667	0.333	0	75.662
Stage 7	-8.8	18.667	44.228	UL-RL	0.2496.738		0	37.333	0.333	0	81.561
Stage 7	-9	20	47.24	UL-RL	0.2496.738		0	40	0.333	0	87.24
Stage 7	-9.2	21.333	50.038	UL-RL	0.2496.738		0	42.667	0.333	0	92.704
Stage 7	-9.4	22.667	52.631	UL-RL	0.2496.738		0	45.333	0.333	0	97.964
Stage 7	-9.6	24	55.033	UL-RL	0.2496.738		0	48	0.333	0	103.033
Stage 7	-9.8	25.333	57.261	UL-RL	0.2496.738		0	50.667	0.333	0	107.927
Stage 7	-10	26.667	59.331	UL-RL	0.2496.738		0	53.333	0.333	0	112.665
Stage 7	-10.2	28	61.265	UL-RL	0.2496.738		0	56	0.333	0	117.265
Stage 7	-10.4	29.333	63.08	UL-RL	0.2496.738		0	58.667	0.333	0	121.747
Stage 7	-10.6	30.667	64.797	UL-RL	0.2496.738		0	61.333	0.333	0	126.13
Stage 7	-10.8	32	66.435	UL-RL	0.2496.738		0	64	0.333	0	130.435
Stage 7	-11	33.333	68.011	UL-RL	0.2496.738		0	66.667	0.333	0	134.677
Stage 7	-11.2	34.667	69.541	UL-RL	0.2496.738		0	69.333	0.333	0	138.874
Stage 7	-11.4	36	71.041	UL-RL	0.2496.738		0	72	0.333	0	143.04
Stage 7	-11.6	37.333	72.521	UL-RL	0.2496.738		0	74.667	0.333	0	147.187
Stage 7	-11.8	38.667	73.99	UL-RL	0.2496.738		0	77.333	0.333	0	151.323
Stage 7	-12	40	75.455	UL-RL	0.2496.738		0	80	0.333	0	155.455

# Grafico Risultati Terreno Sigma V

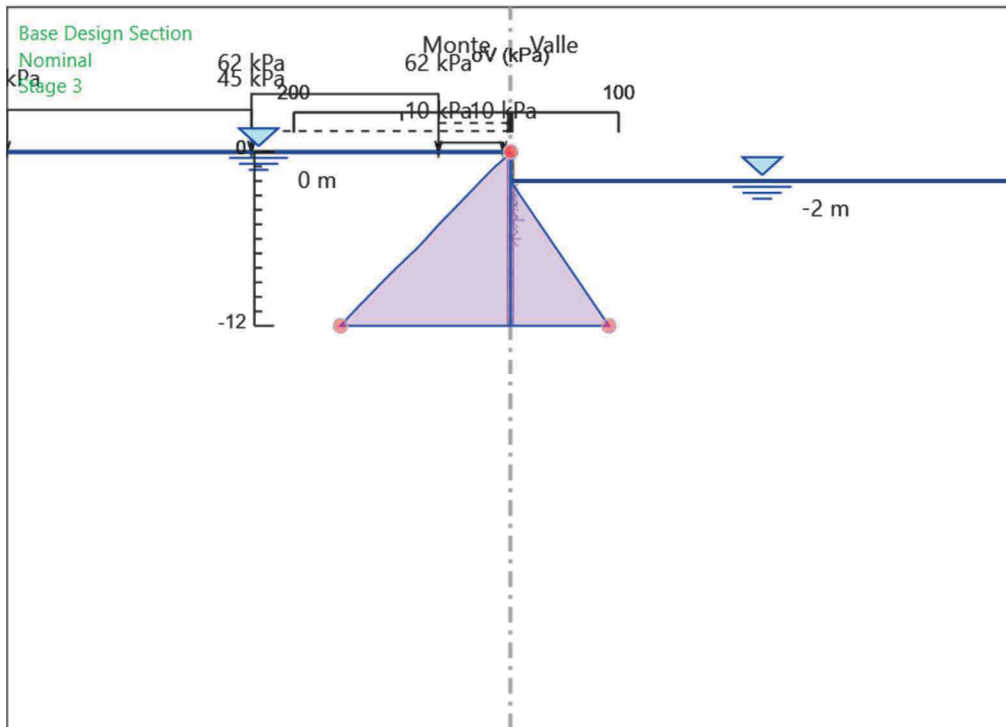


Design Assumption: Nominal  
Stage: Stage 1  
Sigma V

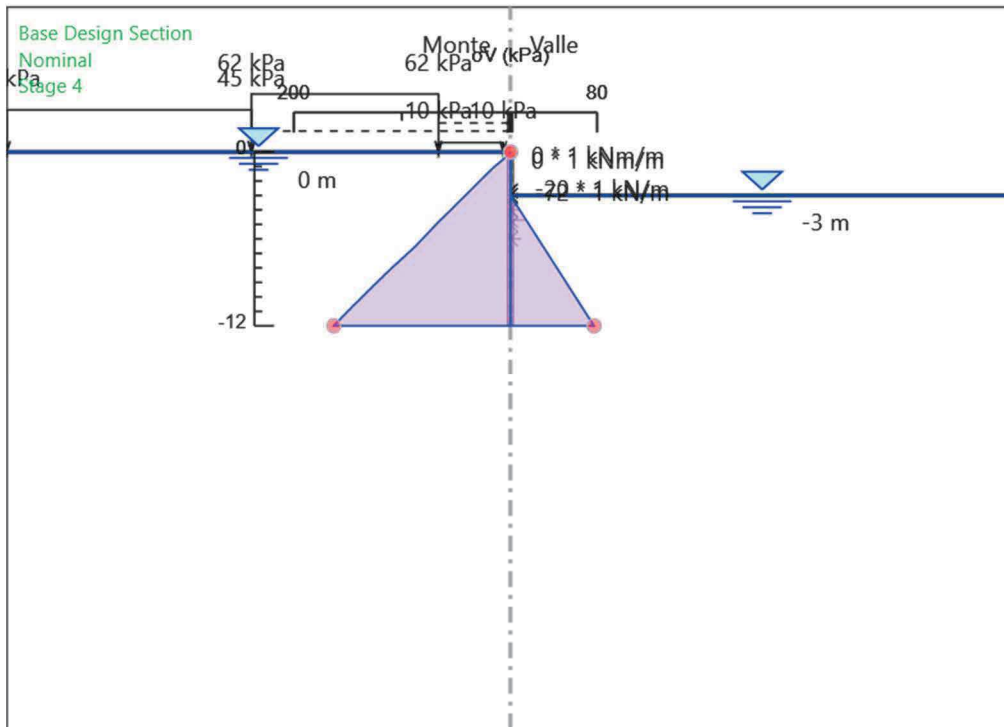




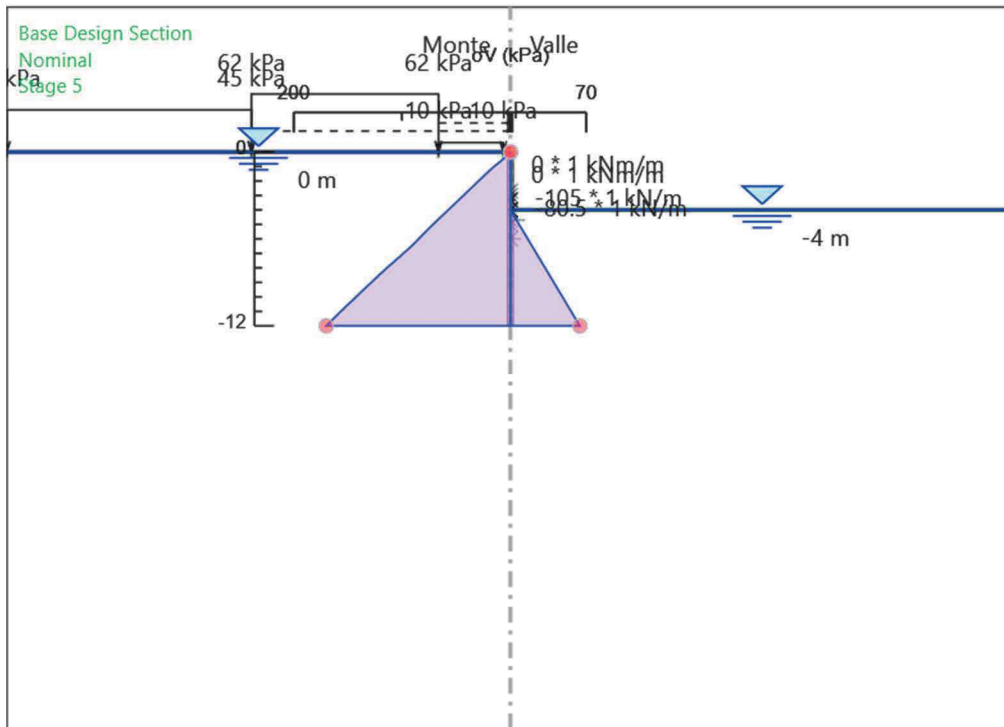
Design Assumption: Nominal  
 Stage: Stage 2  
 Sigma V



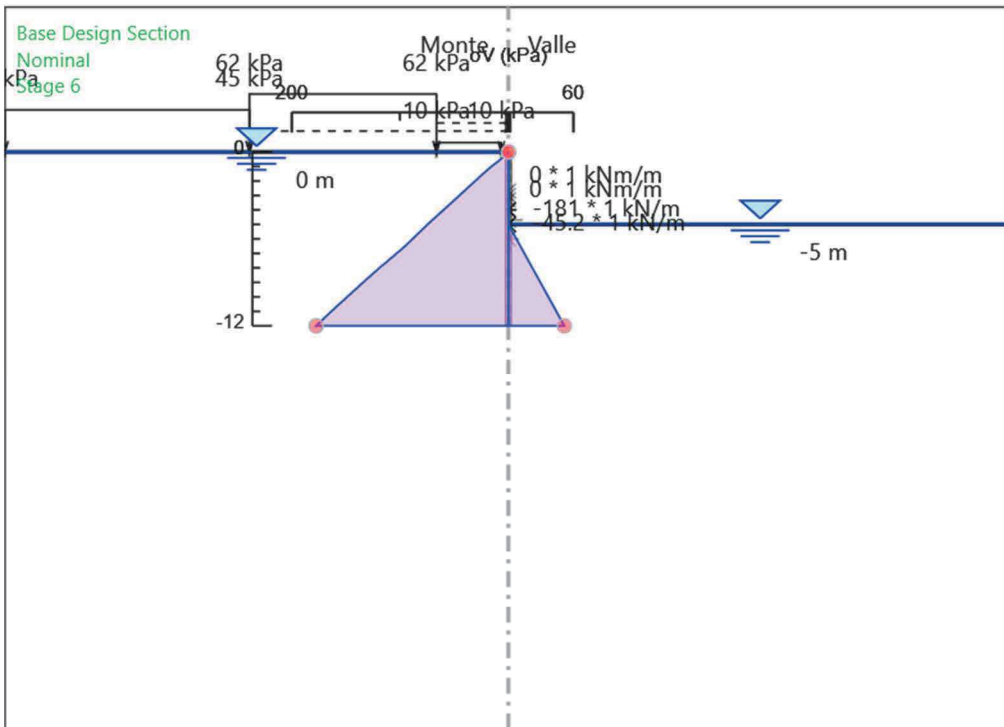
Design Assumption: Nominal  
 Stage: Stage 3  
 Sigma V



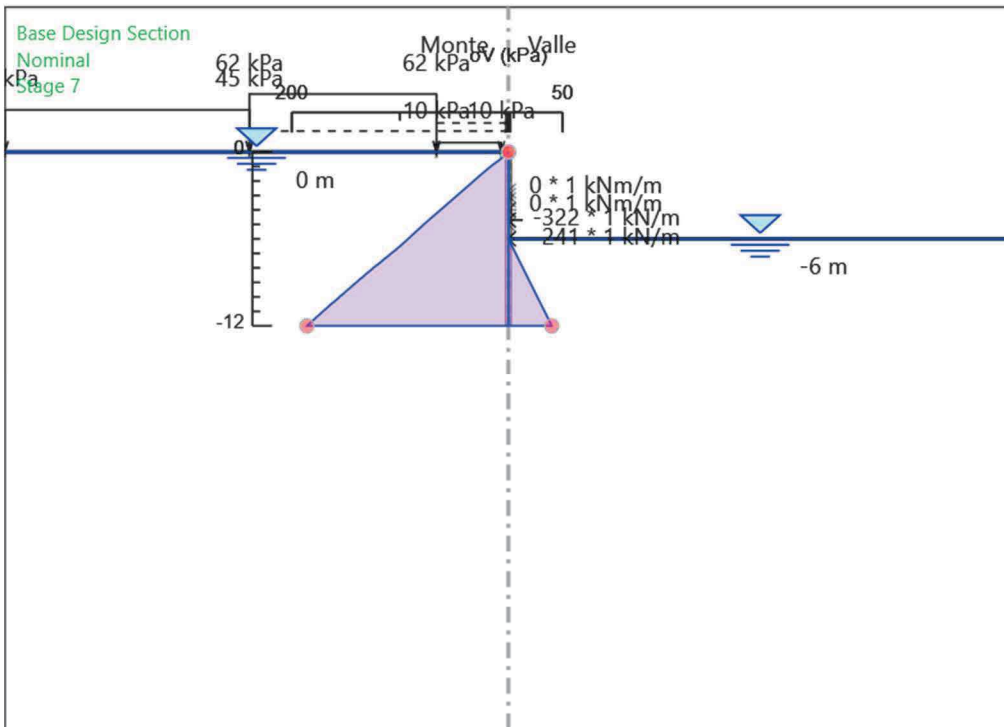
Design Assumption: Nominal  
 Stage: Stage 4  
 Sigma V



Design Assumption: Nominal  
Stage: Stage 5  
Sigma V

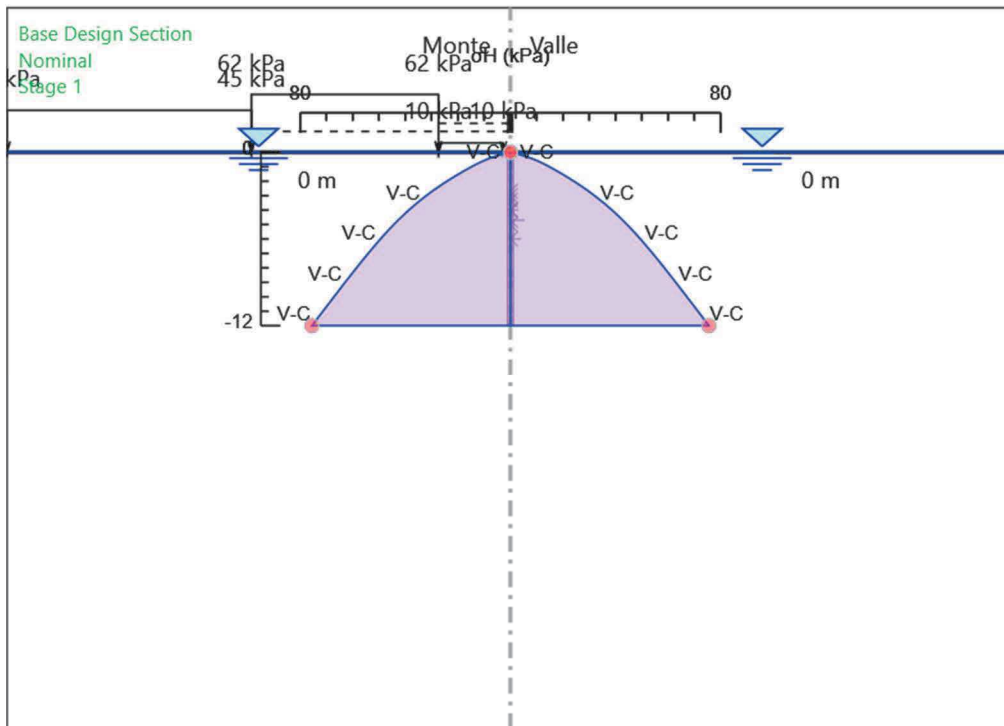


Design Assumption: Nominal  
Stage: Stage 6  
Sigma V

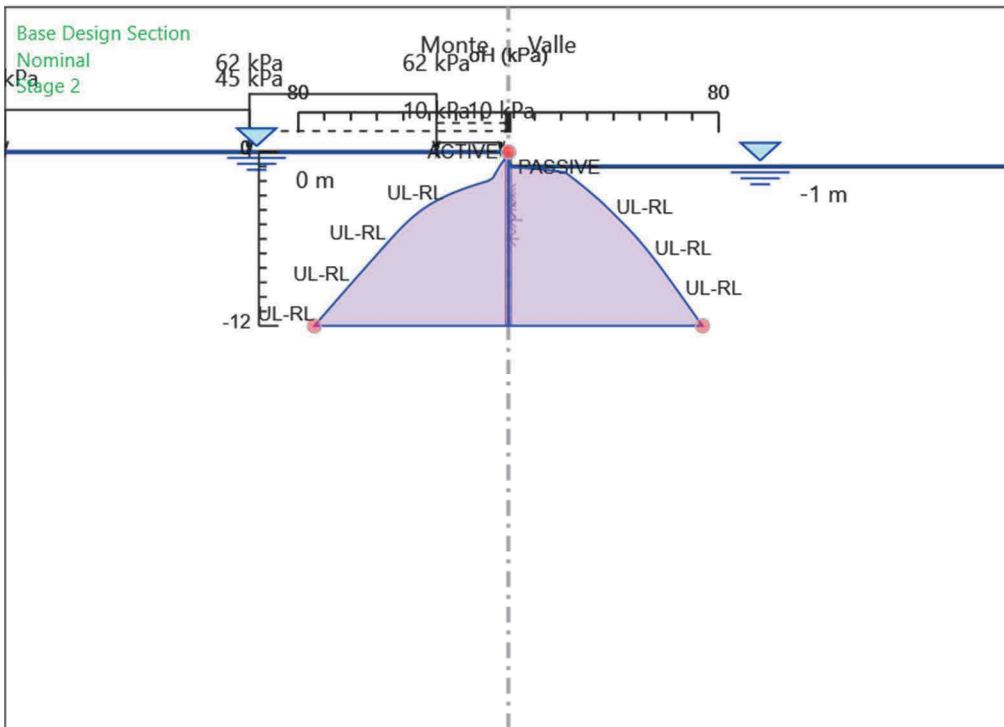


Design Assumption: Nominal  
Stage: Stage 7  
Sigma V

# Grafico Risultati Terreno Sigma H

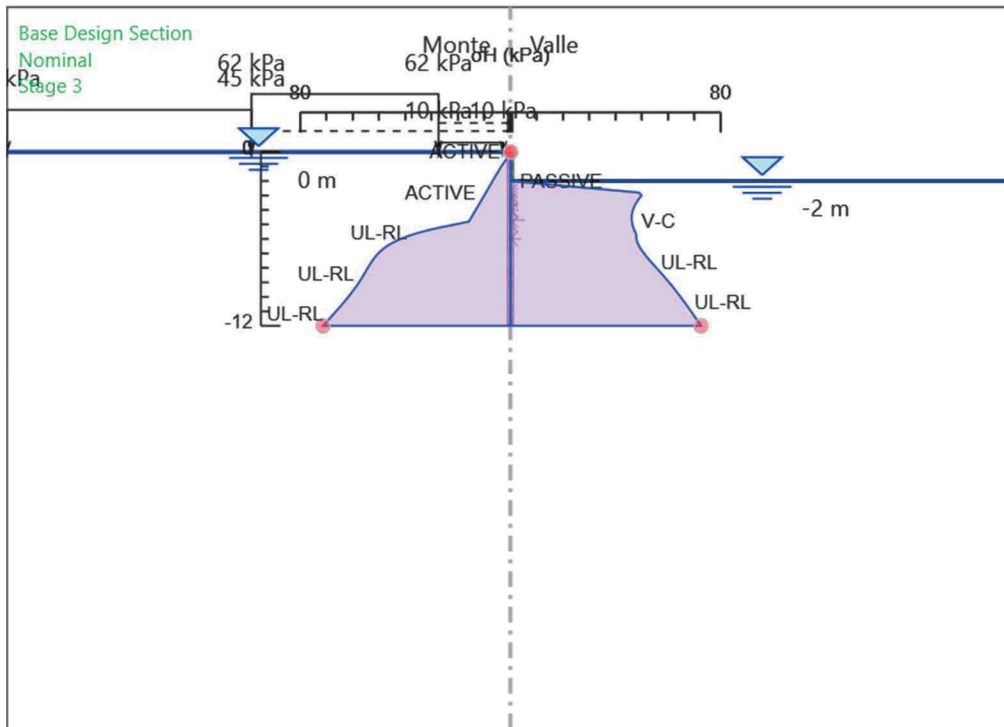


Design Assumption: Nominal  
Stage: Stage 1  
Sigma H

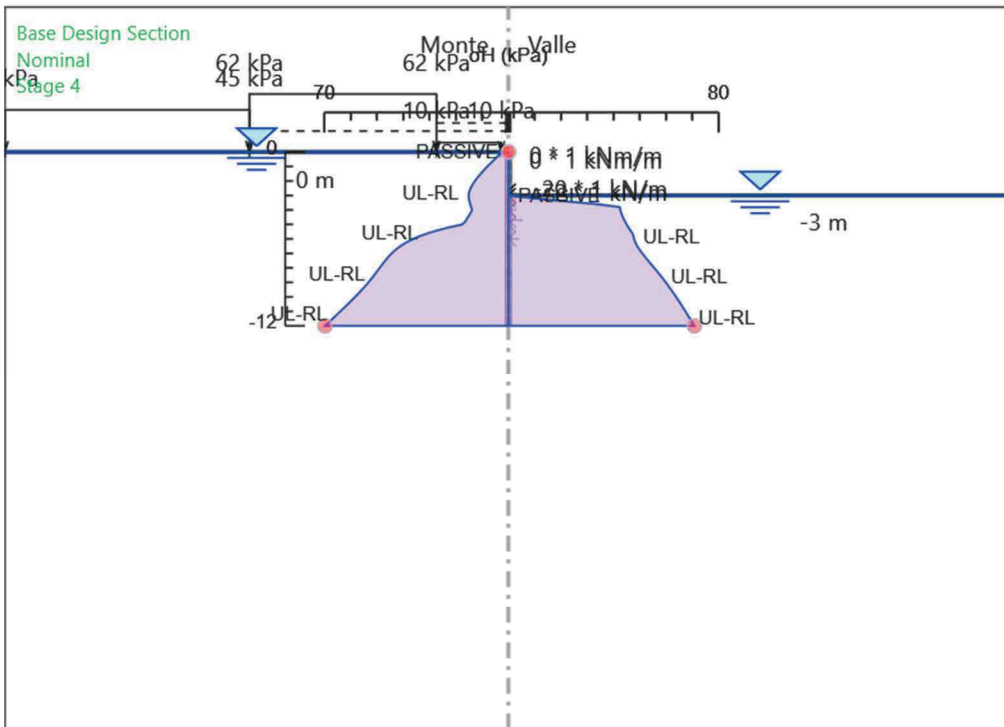


Design Assumption: Nominal  
 Stage: Stage 2  
 Sigma H



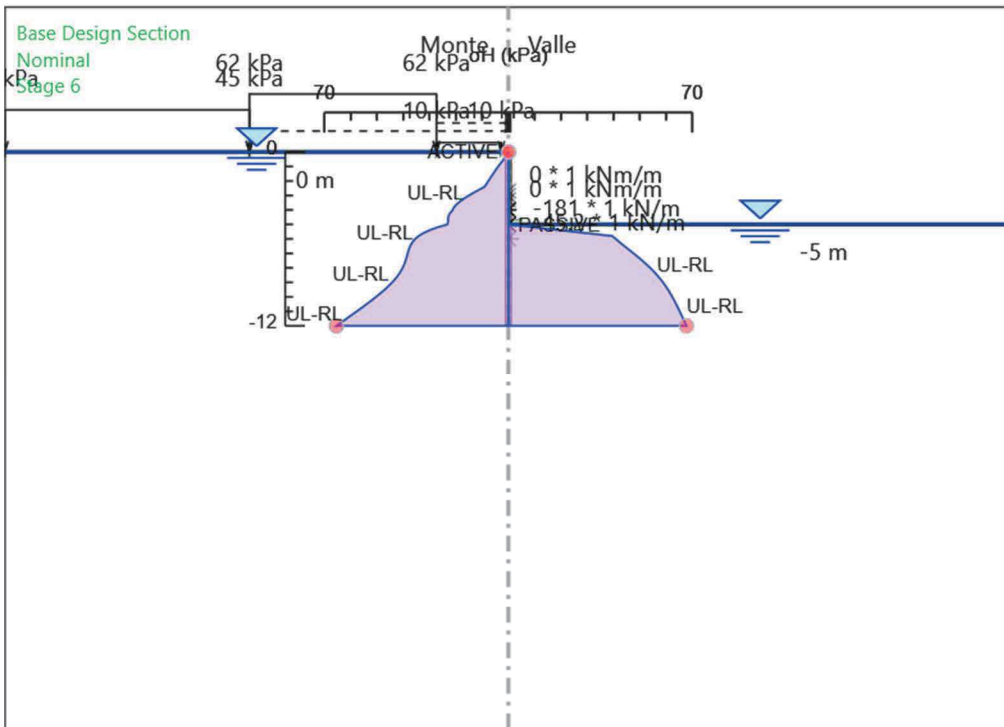


Design Assumption: Nominal  
 Stage: Stage 3  
 Sigma H

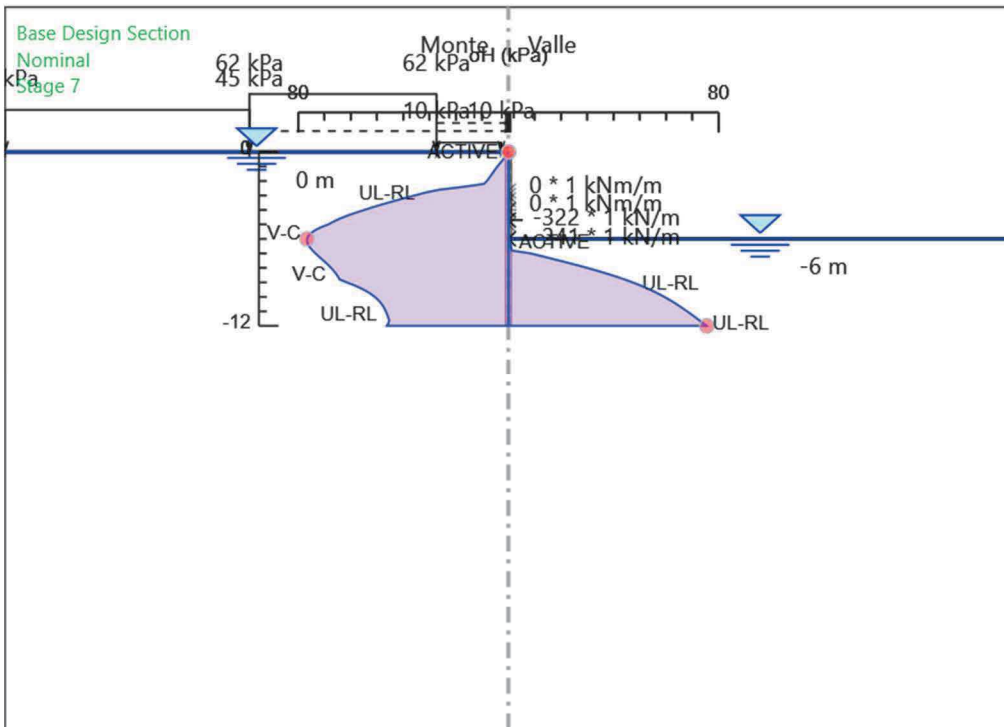


Design Assumption: Nominal  
 Stage: Stage 4  
 Sigma H



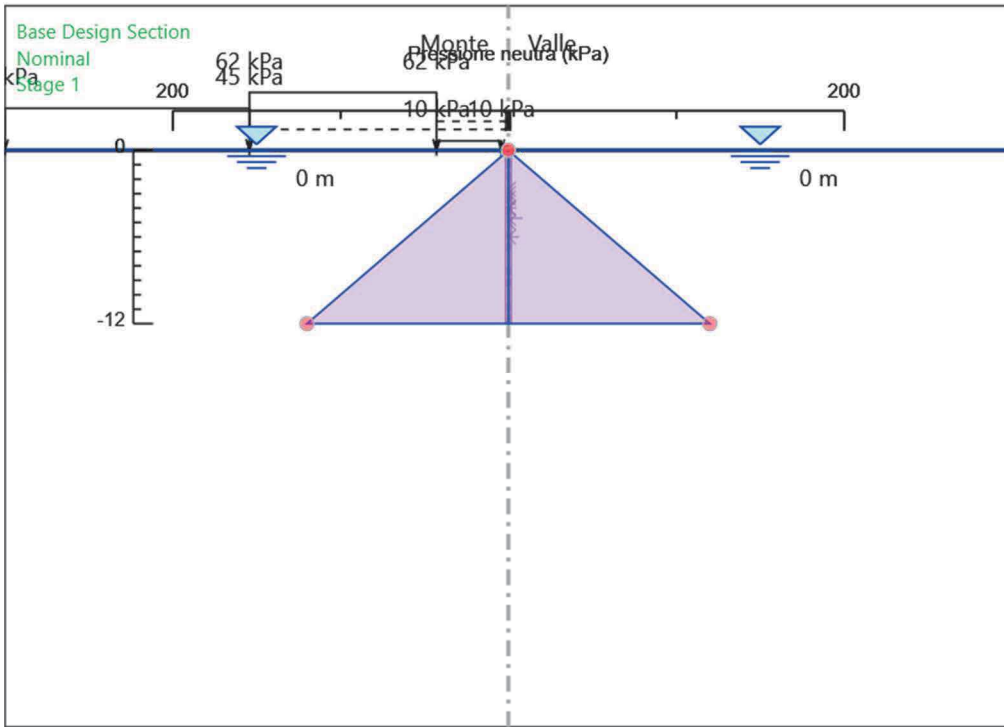


Design Assumption: Nominal  
Stage: Stage 6  
Sigma H

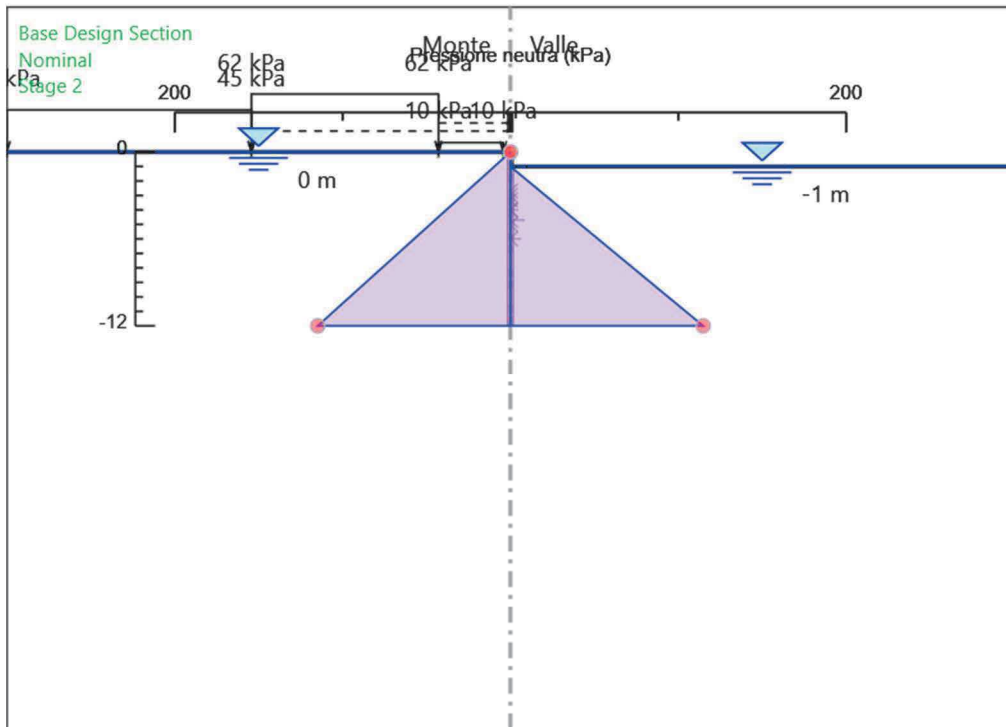


Design Assumption: Nominal  
 Stage: Stage 7  
 Sigma H

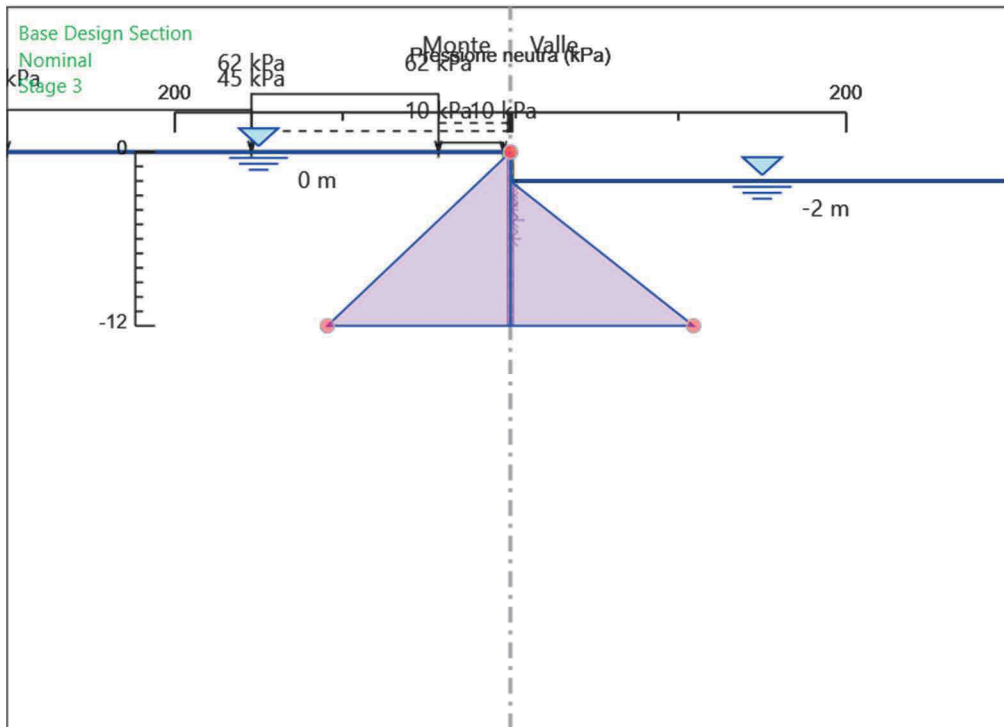
# Grafico Risultati Terreno Pressione neutra



Design Assumption: Nominal  
Stage: Stage 1  
Pressione neutra

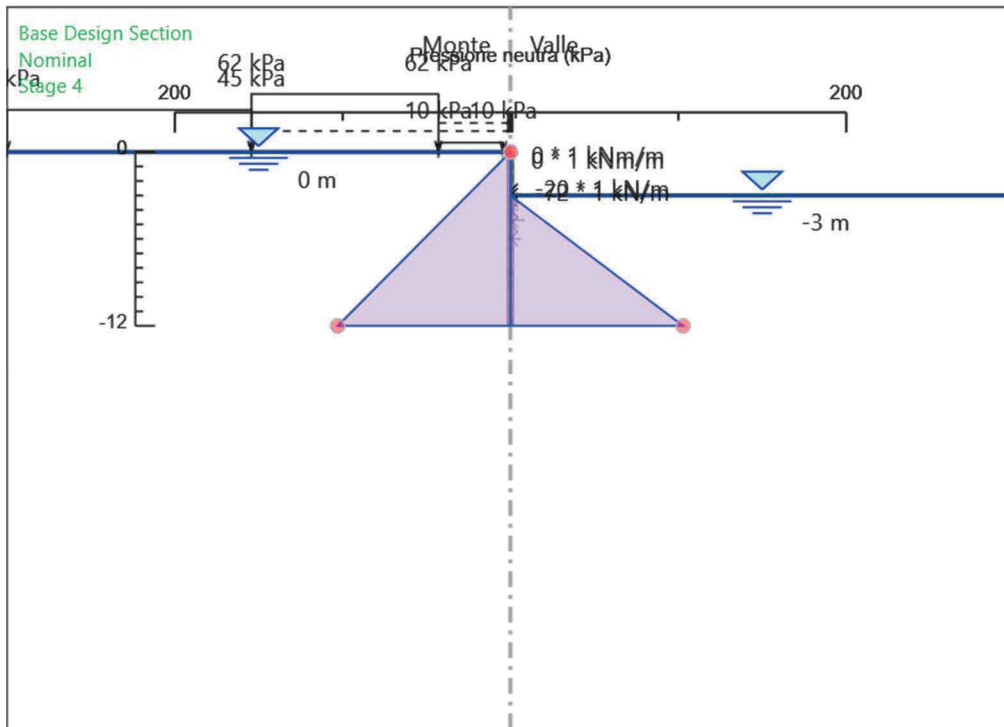


Design Assumption: Nominal  
Stage: Stage 2  
Pressione neutra

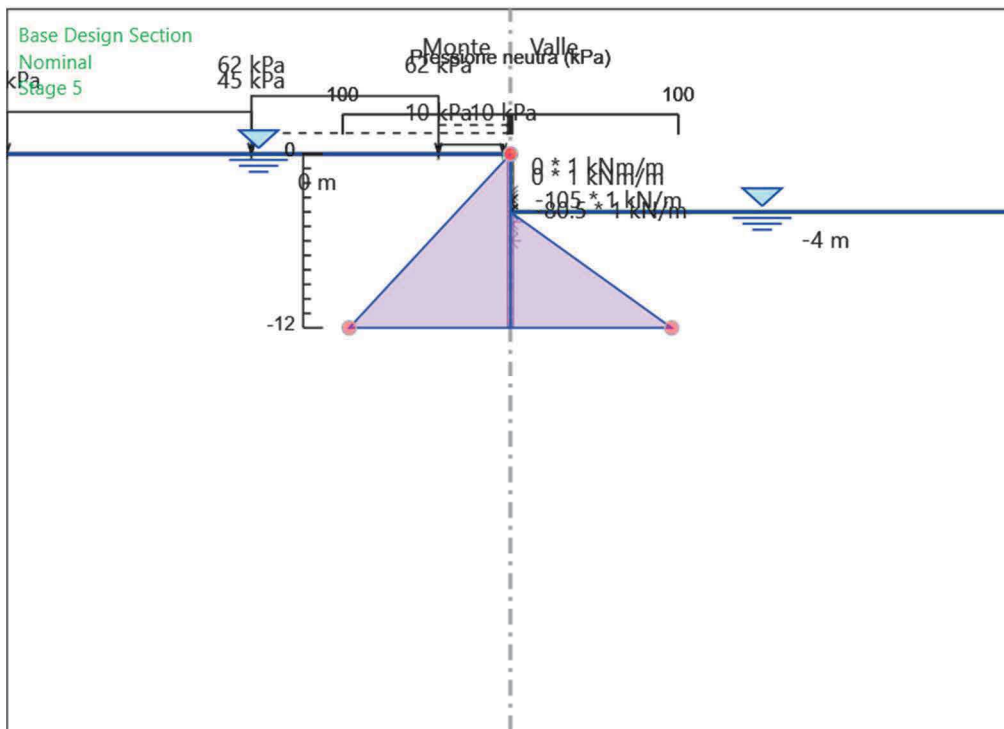


Design Assumption: Nominal  
 Stage: Stage 3  
 Pressione neutra

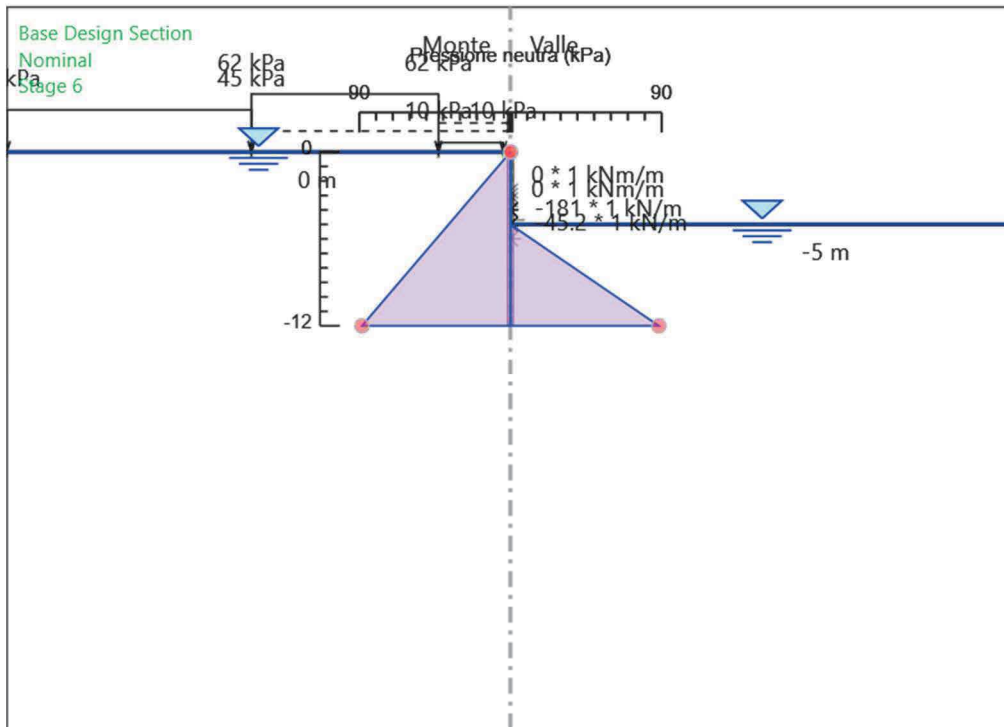




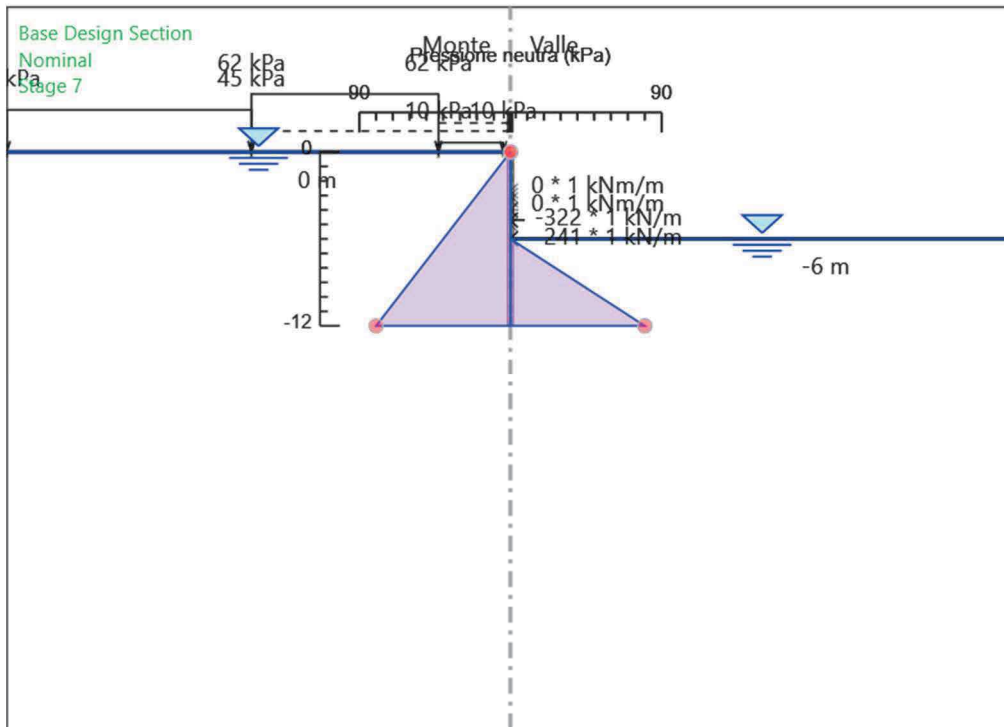
Design Assumption: Nominal  
 Stage: Stage 4  
 Pressione neutra



Design Assumption: Nominal  
 Stage: Stage 5  
 Pressione neutra

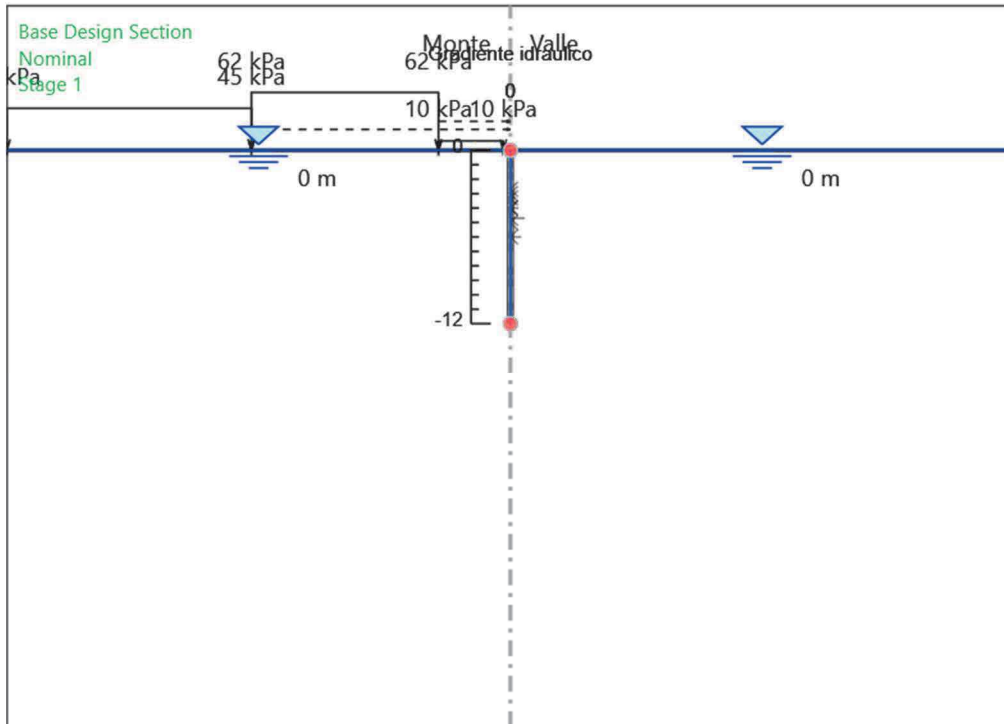


Design Assumption: Nominal  
 Stage: Stage 6  
 Pressione neutra

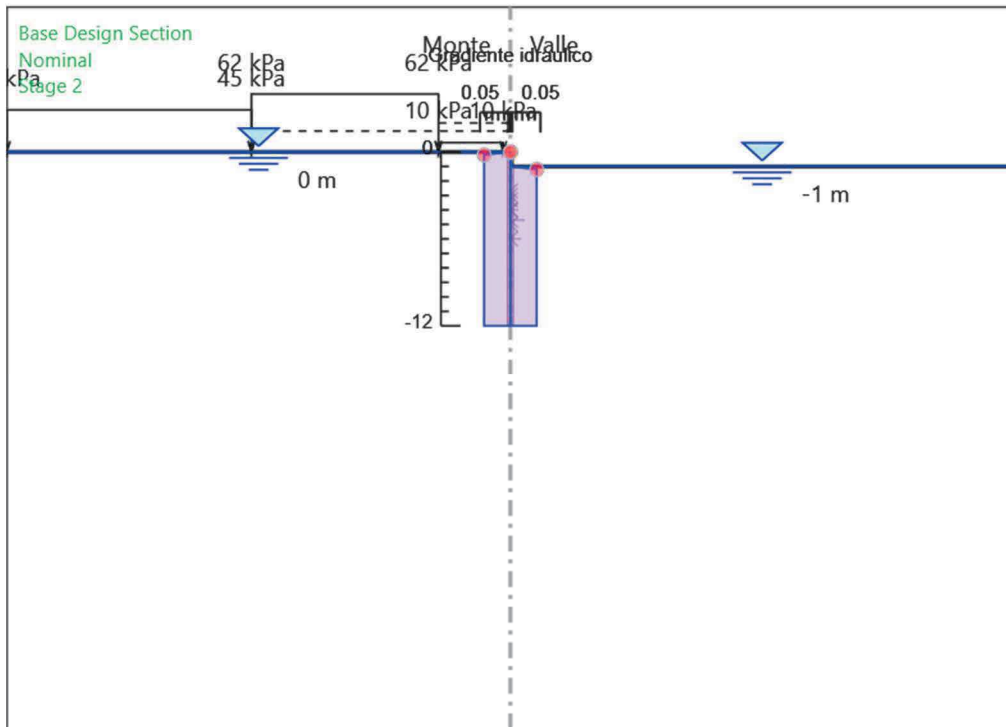


Design Assumption: Nominal  
Stage: Stage 7  
Pressione neutra

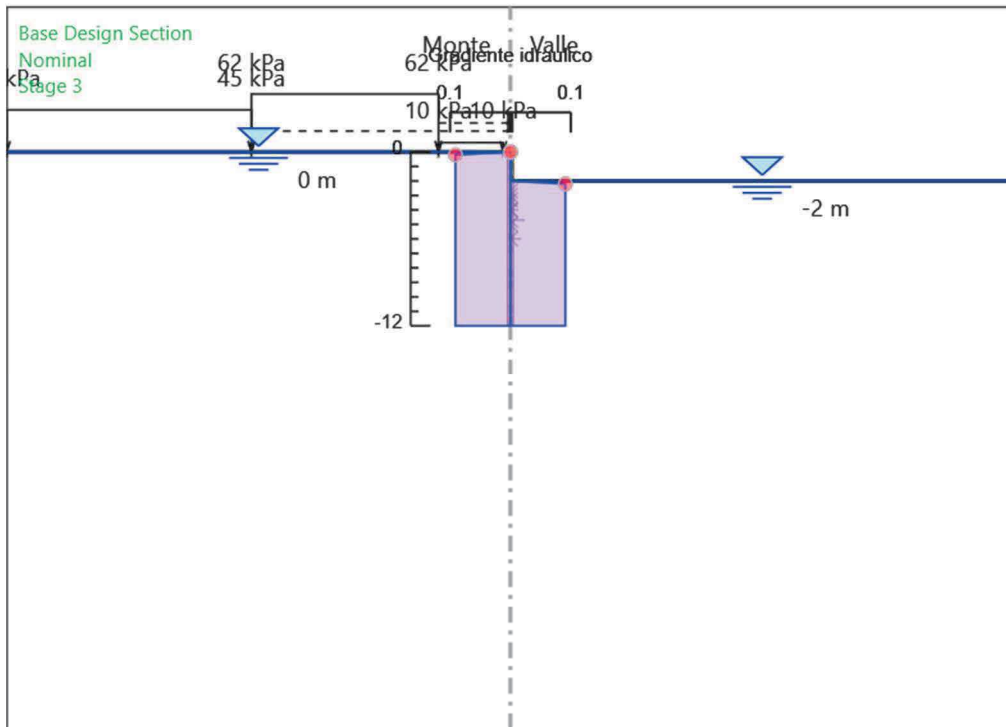
# Grafico Risultati Terreno Gradiente idraulico



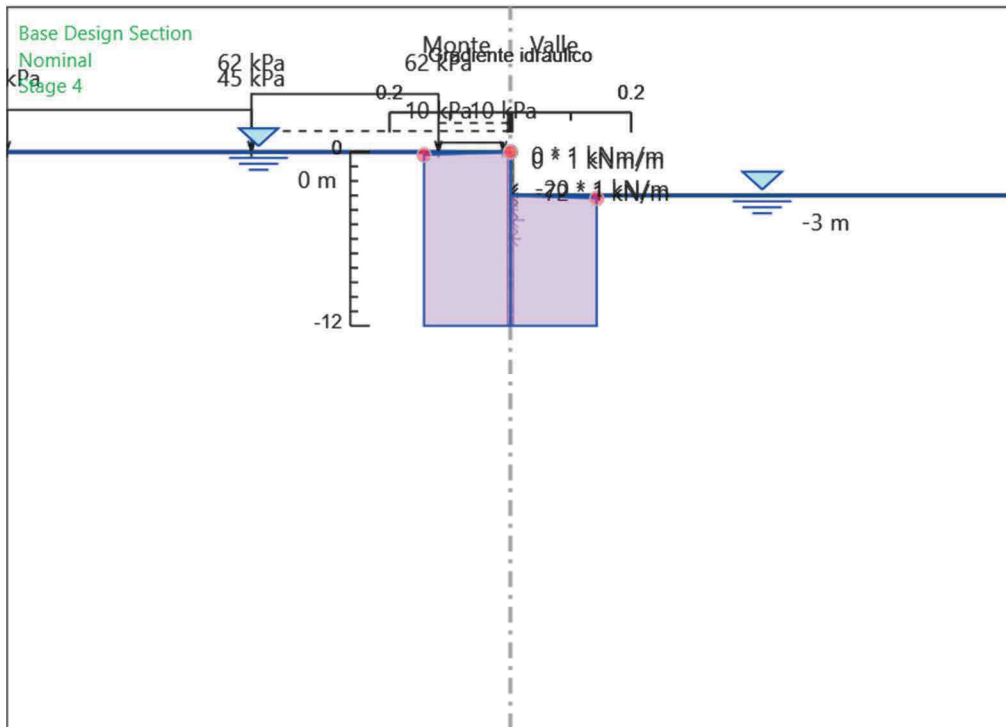
Design Assumption: Nominal  
Stage: Stage 1  
Gradiente idraulico



Design Assumption: Nominal  
 Stage: Stage 2  
 Gradiente idraulico

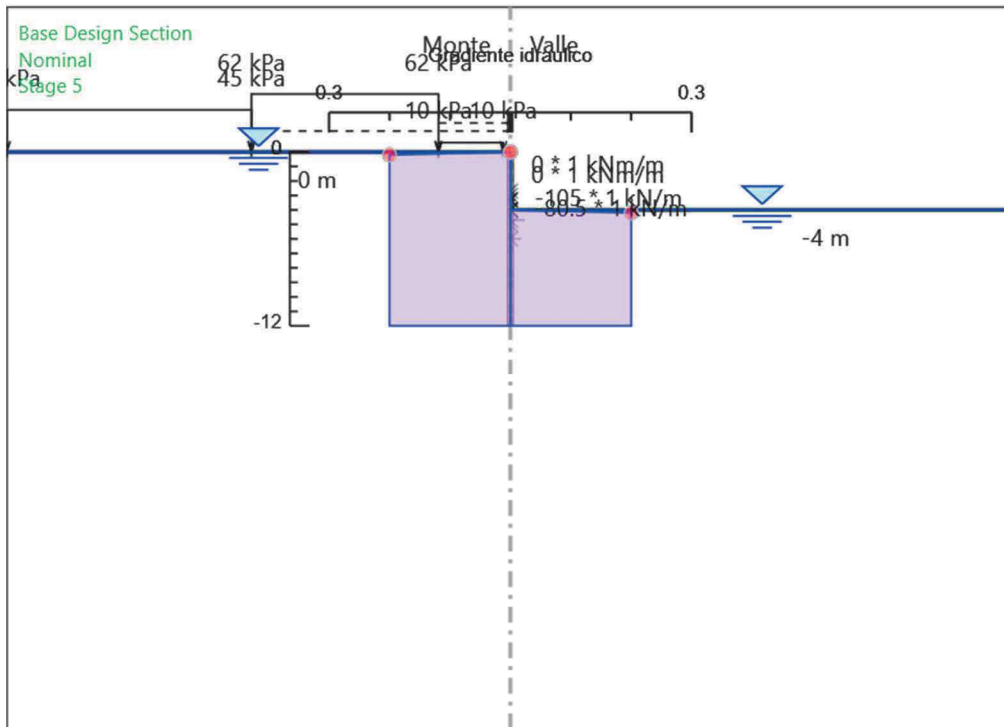


Design Assumption: Nominal  
Stage: Stage 3  
Gradiente idraulico

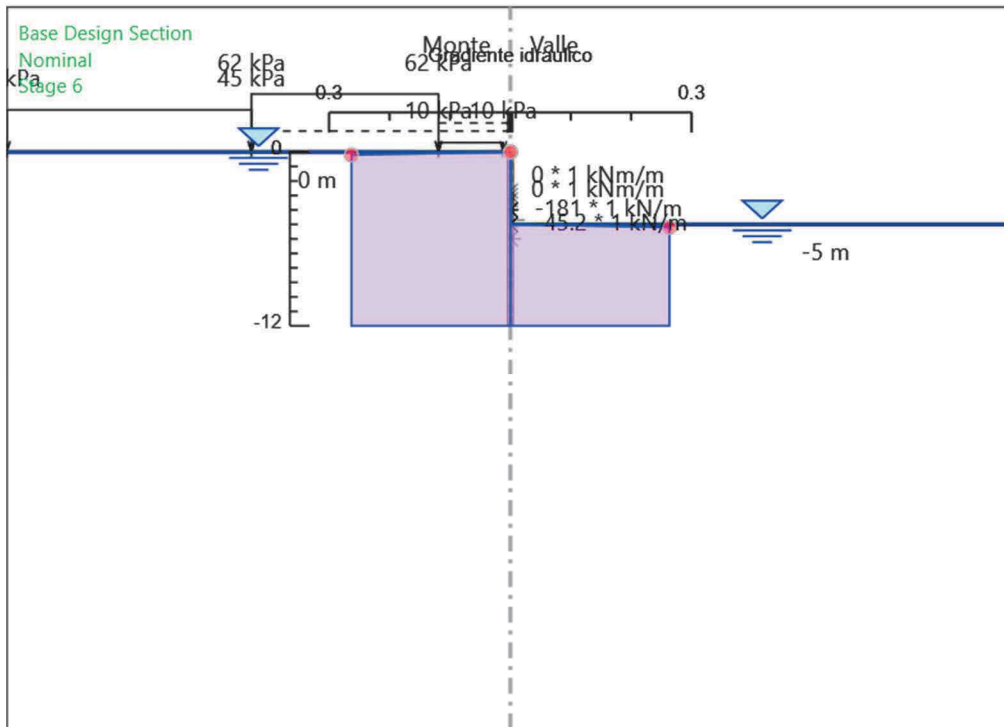


Design Assumption: Nominal  
 Stage: Stage 4  
 Gradiente idraulico

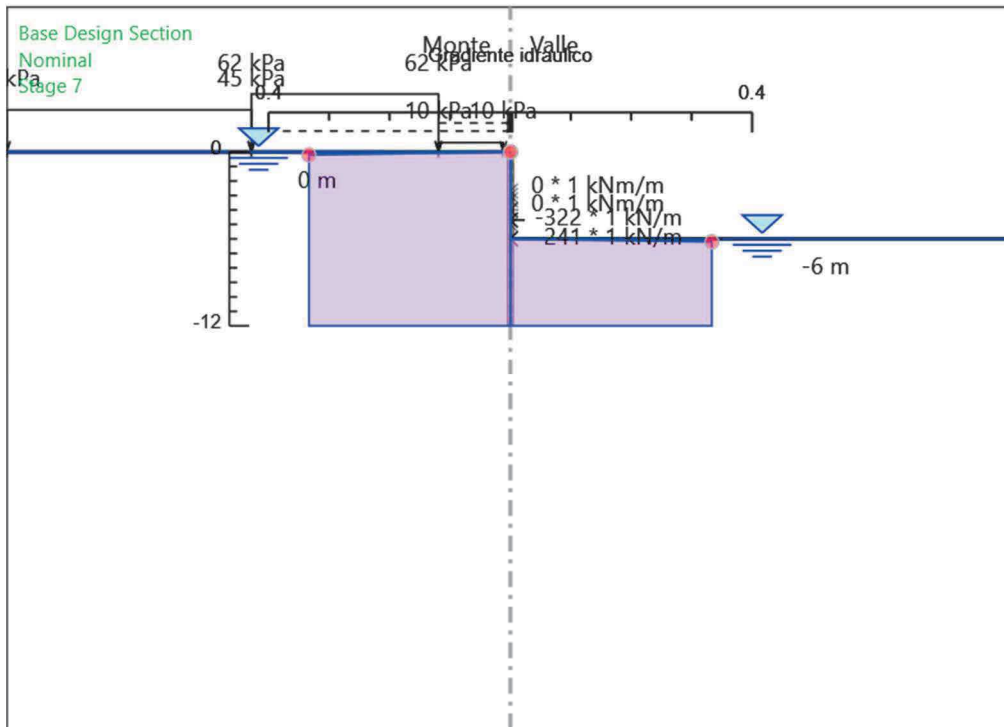




Design Assumption: Nominal  
 Stage: Stage 5  
 Gradiente idraulico

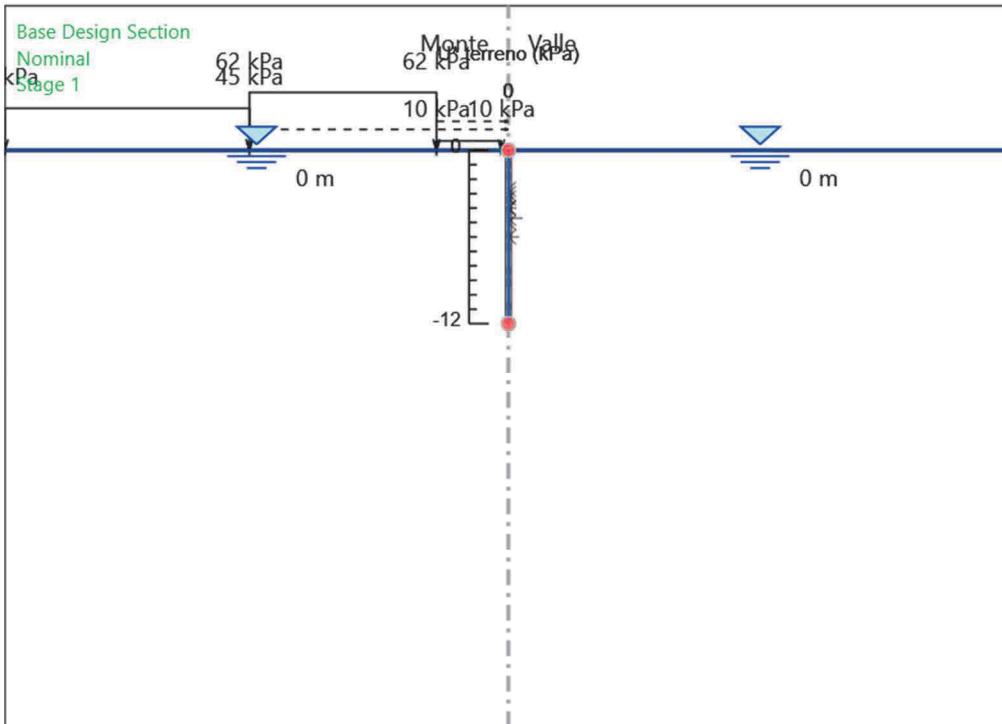


Design Assumption: Nominal  
 Stage: Stage 6  
 Gradiente idraulico

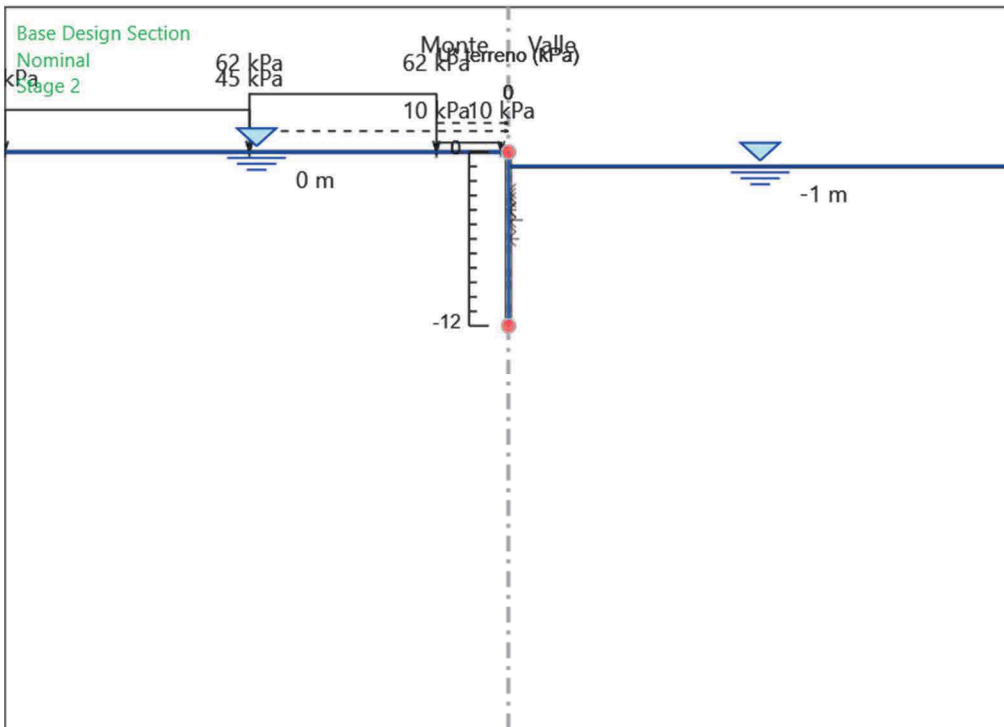


Design Assumption: Nominal  
Stage: Stage 7  
Gradiente idraulico

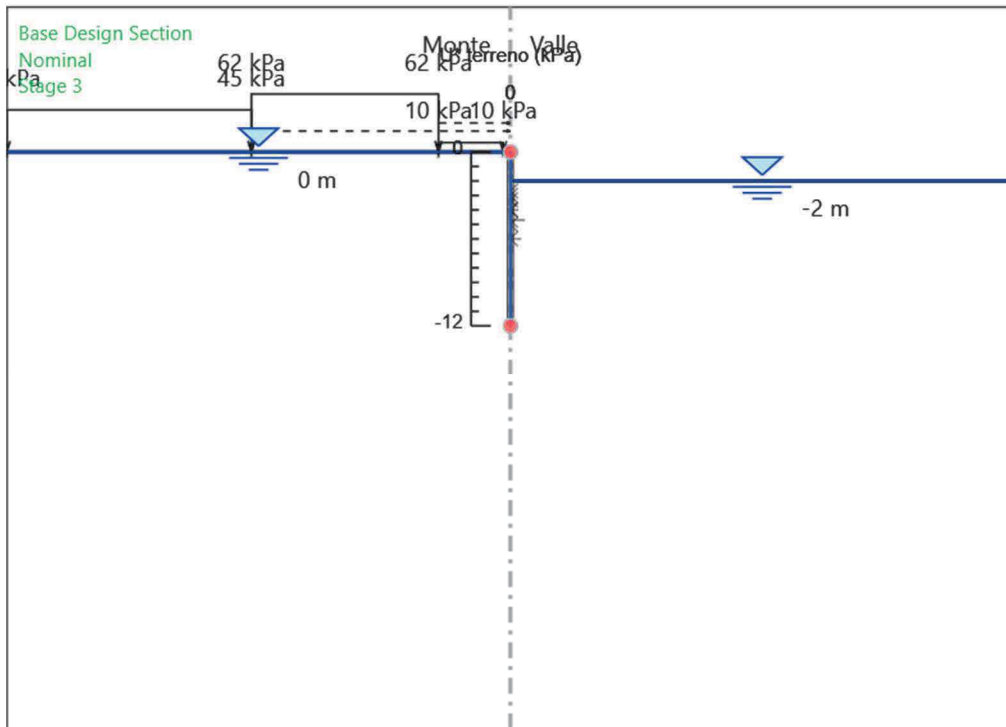
# Grafico Risultati Terreno U\* terreno



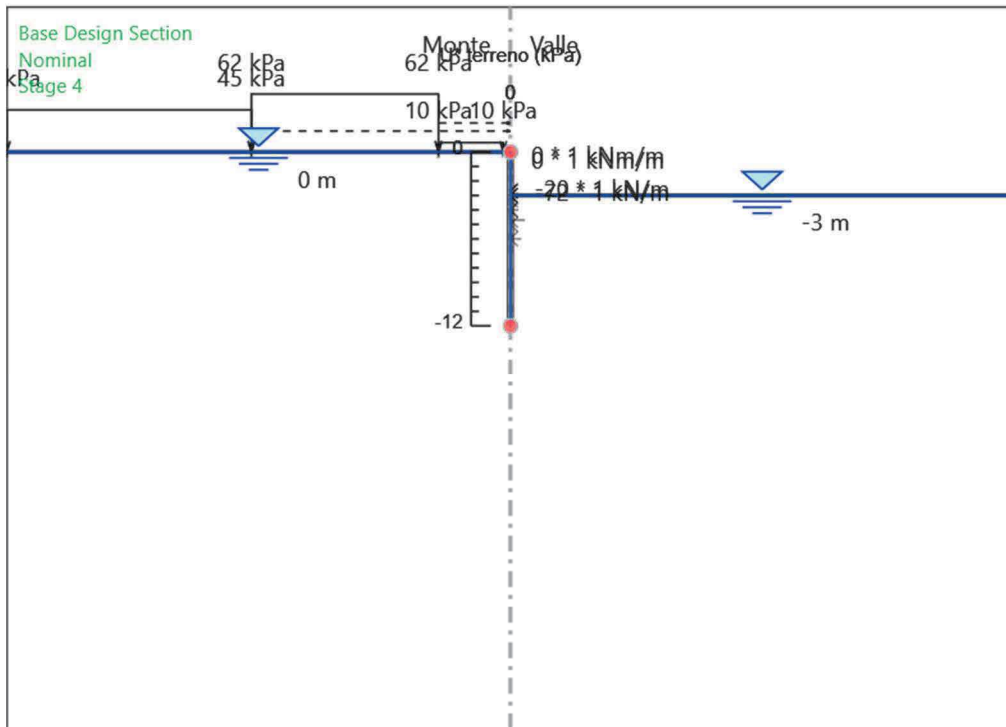
Design Assumption: Nominal  
Stage: Stage 1  
U\* terreno



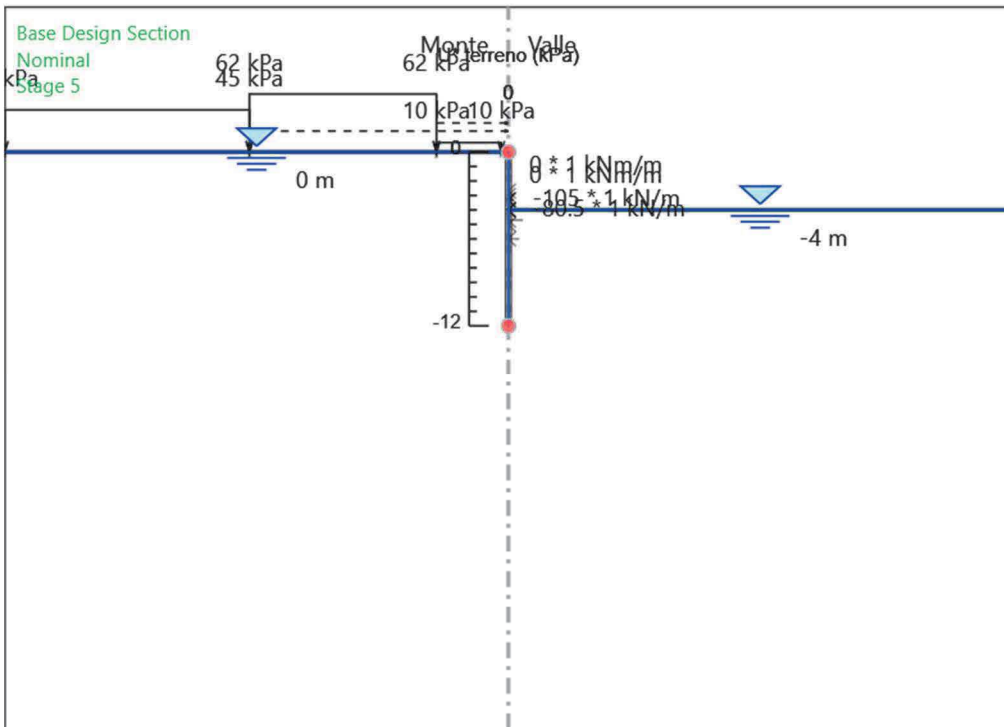
Design Assumption: Nominal  
 Stage: Stage 2  
 U\* terreno



Design Assumption: Nominal  
Stage: Stage 3  
U\* terreno

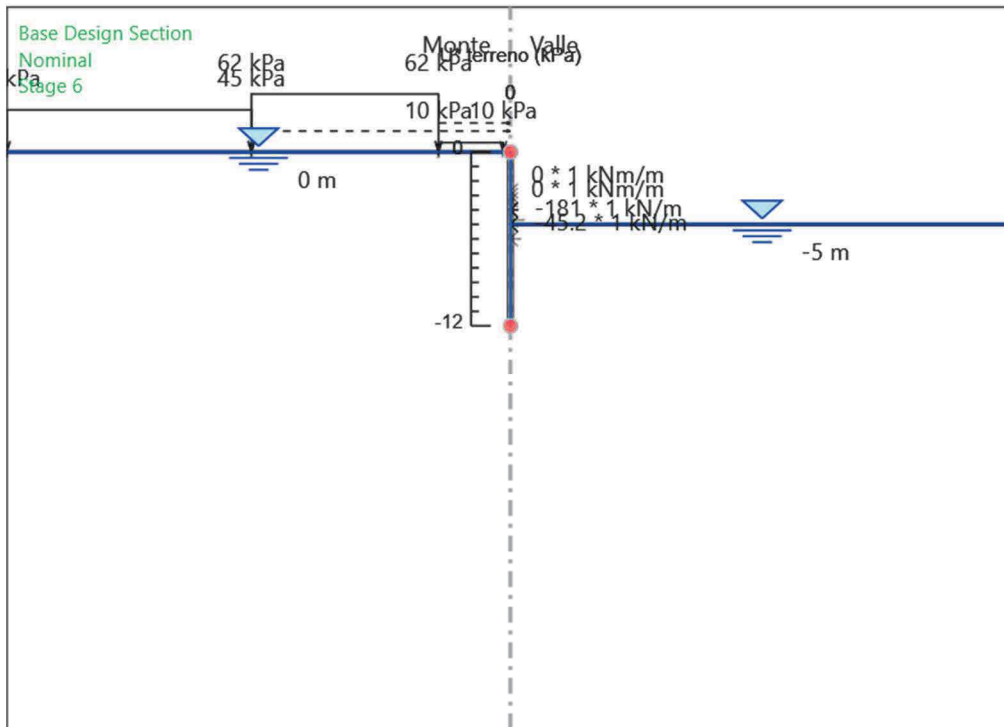


Design Assumption: Nominal  
 Stage: Stage 4  
 U\* terreno

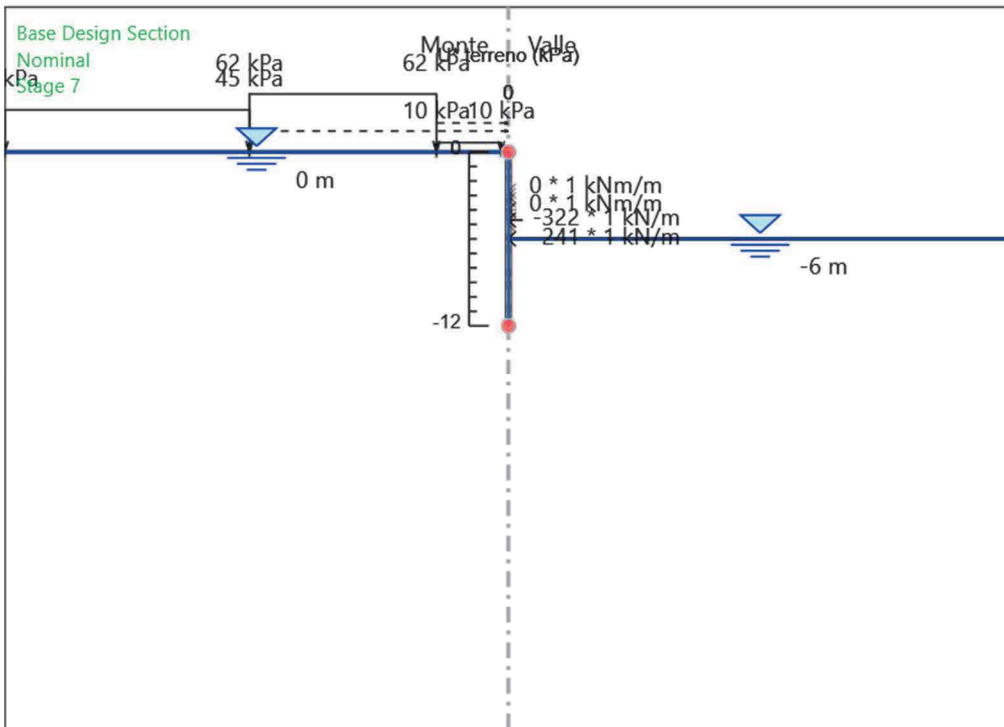


Design Assumption: Nominal  
 Stage: Stage 5  
 U\* terreno





Design Assumption: Nominal  
 Stage: Stage 6  
 U\* terreno



Design Assumption: Nominal  
 Stage: Stage 7  
 U\* terreno

## Riepilogo spinte

Design Assumption:	Tipo Risultato:	Muro:	LEFT	Lato	LEFT		
Nominal Stage	Riepilogo spinte						
	Vera effettiva	Pressione neutra	Vera Totale	Min ammissibile	Max ammissibile	Percentuale di resistenza massima	Vera / Attiva
	(kN/m)	(kN/m)	(kN/m)	(kN/m)	(kN/m)		
Stage 1	557	720	1277	219.6	5942.1	9.37%	2.54
Stage 2	486.1	688.7	1174.8	227.4	6153	7.9%	2.14
Stage 3	422.4	654.5	1076.9	235.9	6383.1	6.62%	1.79
Stage 4	410.4	617.1	1027.5	245.2	6635.1	6.19%	1.67
Stage 5	409.6	576	985.6	255.4	6912.4	5.93%	1.6
Stage 6	371.5	530.5	902	266.8	7218.8	5.15%	1.39
Stage 7	572.3	480	1052.3	279.3	7559.2	7.57%	2.05

Design Assumption:	Tipo Risultato:	Muro:	LEFT	Lato	RIGHT		
Nominal Stage	Riepilogo spinte						
	Vera effettiva	Pressione neutra	Vera Totale	Min ammissibile	Max ammissibile	Percentuale di resistenza massima	Vera / Attiva
	(kN/m)	(kN/m)	(kN/m)	(kN/m)	(kN/m)		
Stage 1	557	720	1277	179.3	4851.4	11.48%	3.11
Stage 2	543.5	631.3	1174.8	144.1	3899.2	13.94%	3.77
Stage 3	531.4	545.5	1076.9	113.2	3062.7	17.35%	4.69
Stage 4	472.7	462.9	935.5	86.4	2339	20.21%	5.47
Stage 5	416.1	384	800.1	63.7	1724.9	24.12%	6.53
Stage 6	366.3	309.5	675.8	45	1216.4	30.11%	8.14
Stage 7	249.3	240	489.3	29.9	808.6	30.83%	8.34

# Allegati

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

```
+-----+
|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*          |
|                                                                                                                                            |
|                                                                                                                                            |
|                                                                                                                                            |
|          NewProject.BaseDesignSection_28.Nominal_63                                                                                       |
|          Exe Time :24 May 2018          18:23:40                                                                                       |
|                                                                                                                                            |
+-----+
```

```
*****
*                                                                                                                                            *
*  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  2017.1          *Build date:Jul 11, 2017*          *                                                                                                                                            *
*                                                                                                                                            *
*                                                                                                                                            *
*  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_28.Nominal_63
STARTING
ACCEPTED <FILE,GENW >
ACCEPTED <FILE,PLOTTER,BINARY >
ACCEPTED <SOLVE TOTAL_STRESS >
ACCEPTED <PARAM ITEMAX 40 >
ACCEPTED <CONTROL HINGES 0 0.0001 0.001 >
```

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

```
PRELIMINARY OPERATIONS CPU TIME 0.02 [sec]
```

```

+-----+
|          PARATIEPLUS(TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION *Build date:Jul 11, 2017*          |
|                                                                                                                                            |
|                                                                                                                                            |
|                                                                                                                                            |
|          NewProject.BaseDesignSection_28.Nominal_63                                                                                       |
|          Exe Time :24 May 2018          18:23:40                                                                                       |
+-----+

```

INPUT FILE HAS BEEN GENERATED BY WALGEN PROGRAM

New Project

```

NO. OF NODAL POINTS (NUMNP) ..... 61
NO. OF COORDINATES (NCOORD)..... 2
NO. OF NODE DOFS (NDOF)..... 2
NO. OF EQUATIONS (NEQ)..... 122
NO. OF CONSTRAINTS CARDS (NVINC)..... 0
NO. OF ELEMENT GROUPS (NEG)..... 3
NO. OF SOLUTION STEPS (NSTE)..... 7
NO. OF ELEMENT SETS ATTACHED TO SLAVE NODES ... 0
NO. OF RECORD FROM WALGEN ..... 86
NO. OF LONG NAMES (LASTNAME) ..... 20
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.

```

```
+-----+
|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|                               NewProject.BaseDesignSection_28.Nominal_63                       |
|                               Exe Time :24 May 2018  18:23:40                               |
+-----+
```

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     86

```
1 : UNIT m kN
2 : TITLE New Project
3 : DELTA 0.2
4 : option param itemax 40
5 : option control hinges 0 0.0001 0.001
6 : WALL LeftWall_32 0 -12 0 1
7 : SOIL 0_L LeftWall_32 -12 0 1 0
8 : SOIL 0_R LeftWall_32 -12 0 2 180
9 : LDATA Ug5_2_8_L_0 0 LeftWall_32
10 : ATREST 0.5 0.5 1
11 : WEIGHT 19 10 10
12 : PERMEABILITY 0.0001
13 : RESISTANCE 0 37
14 : YOUNG 5.5E+04 1.65E+05
15 : ENDL
16 : MATERIAL S355_114 2.1E+08
17 : BEAM WallElement_33 LeftWall_32 -12 0 S355_114 0.25 00 00 0
18 : STRIP LeftWall_32 1 7 5 13 0 62 45
19 : STRIP LeftWall_32 1 7 18 17 0 45 45
20 : STRIP LeftWall_32 1 7 0.5 4.5 0 10 45
21 : STEP Stage1_31
22 : CHANGE Ug5_2_8_L_0 U-FRICT=37 LeftWall_32
23 : CHANGE Ug5_2_8_L_0 D-FRICT=37 LeftWall_32
24 : CHANGE Ug5_2_8_L_0 U-KA=0.249 LeftWall_32
25 : CHANGE Ug5_2_8_L_0 U-KP=6.738 LeftWall_32
26 : CHANGE Ug5_2_8_L_0 D-KA=0.249 LeftWall_32
27 : CHANGE Ug5_2_8_L_0 D-KP=6.738 LeftWall_32
28 : CHANGE Ug5_2_8_L_0 U-COHE=0 LeftWall_32
29 : CHANGE Ug5_2_8_L_0 D-COHE=0 LeftWall_32
30 : SETWALL LeftWall_32
31 : GEOM 0 0
32 : WATER 0 0 -12 0 0
33 : ADD WallElement_33
34 : ENDSTEP
35 : STEP Stage2_158
36 : CHANGE Ug5_2_8_L_0 D-FRICT=37 LeftWall_32
37 : CHANGE Ug5_2_8_L_0 D-COHE=0 LeftWall_32
38 : SETWALL LeftWall_32
39 : GEOM 0 -1
40 : WATER 0 1 -12 0 0
41 : ENDSTEP
42 : STEP Stage3_255
43 : CHANGE Ug5_2_8_L_0 D-FRICT=37 LeftWall_32
44 : CHANGE Ug5_2_8_L_0 D-COHE=0 LeftWall_32
45 : SETWALL LeftWall_32
46 : GEOM 0 -2
47 : WATER 0 2 -12 0 0
48 : ENDSTEP
49 : STEP Stage4_352
50 : CHANGE Ug5_2_8_L_0 D-FRICT=37 LeftWall_32
51 : CHANGE Ug5_2_8_L_0 D-COHE=0 LeftWall_32
52 : SETWALL LeftWall_32
53 : GEOM 0 -3
54 : WATER 0 3 -12 0 0
55 : LOAD step LeftWall_32 -2.7 1 -20
56 : LOAD step LeftWall_32 -3 1 -72
57 : ENDSTEP
58 : STEP Stage5_449
59 : CHANGE Ug5_2_8_L_0 D-FRICT=37 LeftWall_32
60 : CHANGE Ug5_2_8_L_0 D-COHE=0 LeftWall_32
61 : SETWALL LeftWall_32
62 : GEOM 0 -4
63 : SURCHARGE 0 0 0 -4
64 : WATER 0 4 -12 0 0
65 : LOAD step LeftWall_32 -4 1 -80.5
66 : LOAD step LeftWall_32 -3.3 1 -105
67 : ENDSTEP
68 : STEP Stage6_546
69 : CHANGE Ug5_2_8_L_0 D-FRICT=37 LeftWall_32
70 : CHANGE Ug5_2_8_L_0 D-COHE=0 LeftWall_32
71 : SETWALL LeftWall_32
72 : GEOM 0 -5
73 : SURCHARGE 0 0 0 0
74 : WATER 0 5 -12 0 0
75 : LOAD step LeftWall_32 -5 1 -45.2
76 : LOAD step LeftWall_32 -4 1 -181
77 : ENDSTEP
78 : STEP Stage7_643
```

```
79 : CHANGE Ug5_2_8_L_0 D-FRICT=37 LeftWall_32
80 : CHANGE Ug5_2_8_L_0 D-COHE=0 LeftWall_32
81 : SETWALL LeftWall_32
82 : GEOM 0 -6
83 : WATER 0 6 -12 0 0
84 : LOAD constant LeftWall_32 -6 1 -241
85 : LOAD constant LeftWall_32 -4.7 1 -322
86 : ENDSTEP
```





```

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|                               NewProject.BaseDesignSection_28.Nominal_63                       |
|                               Exe Time :24 May 2018      18:23:40                             |
+-----+

```

ELEMENT GROUP NO. 1

```

0_L
  5 61 0 1 0 0 0 0 0 0 0 0 0 0 0 1 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
7 active

```

material set no. 1

```

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

```

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	1	0.2000	0.000	0.000	0.000	1.000
22	22	1	0.2000	0.000	0.000	0.000	1.000
23	23	1	0.2000	0.000	0.000	0.000	1.000
24	24	1	0.2000	0.000	0.000	0.000	1.000
25	25	1	0.2000	0.000	0.000	0.000	1.000
26	26	1	0.2000	0.000	0.000	0.000	1.000
27	27	1	0.2000	0.000	0.000	0.000	1.000
28	28	1	0.2000	0.000	0.000	0.000	1.000
29	29	1	0.2000	0.000	0.000	0.000	1.000
30	30	1	0.2000	0.000	0.000	0.000	1.000
31	31	1	0.2000	0.000	0.000	0.000	1.000
32	32	1	0.2000	0.000	0.000	0.000	1.000
33	33	1	0.2000	0.000	0.000	0.000	1.000
34	34	1	0.2000	0.000	0.000	0.000	1.000
35	35	1	0.2000	0.000	0.000	0.000	1.000
36	36	1	0.2000	0.000	0.000	0.000	1.000
37	37	1	0.2000	0.000	0.000	0.000	1.000
38	38	1	0.2000	0.000	0.000	0.000	1.000
39	39	1	0.2000	0.000	0.000	0.000	1.000
40	40	1	0.2000	0.000	0.000	0.000	1.000
41	41	1	0.2000	0.000	0.000	0.000	1.000
42	42	1	0.2000	0.000	0.000	0.000	1.000
43	43	1	0.2000	0.000	0.000	0.000	1.000
44	44	1	0.2000	0.000	0.000	0.000	1.000
45	45	1	0.2000	0.000	0.000	0.000	1.000
46	46	1	0.2000	0.000	0.000	0.000	1.000
47	47	1	0.2000	0.000	0.000	0.000	1.000
48	48	1	0.2000	0.000	0.000	0.000	1.000
49	49	1	0.2000	0.000	0.000	0.000	1.000
50	50	1	0.2000	0.000	0.000	0.000	1.000
51	51	1	0.2000	0.000	0.000	0.000	1.000

52	52	1	0.2000	0.000	0.000	0.000	1.000
53	53	1	0.2000	0.000	0.000	0.000	1.000
54	54	1	0.2000	0.000	0.000	0.000	1.000
55	55	1	0.2000	0.000	0.000	0.000	1.000
56	56	1	0.2000	0.000	0.000	0.000	1.000
57	57	1	0.2000	0.000	0.000	0.000	1.000
58	58	1	0.2000	0.000	0.000	0.000	1.000
59	59	1	0.2000	0.000	0.000	0.000	1.000
60	60	1	0.2000	0.000	0.000	0.000	1.000
61	61	1	0.1000	0.000	0.000	0.000	1.000

```

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017* |
|          |
|          NewProject.BaseDesignSection_28.Nominal_63 |
|          Exe Time :24 May 2018      18:23:40 |
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```

ELEMENT GROUP NO. 2

```

0_R
 5 61 0 1 0 0 0 0 0 0 0 0 0 0 0 1 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
7 active

```

material set no. 1

```

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

```

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	1	0.2000	0.000	0.000	0.000	2.000
22	22	1	0.2000	0.000	0.000	0.000	2.000
23	23	1	0.2000	0.000	0.000	0.000	2.000
24	24	1	0.2000	0.000	0.000	0.000	2.000
25	25	1	0.2000	0.000	0.000	0.000	2.000
26	26	1	0.2000	0.000	0.000	0.000	2.000
27	27	1	0.2000	0.000	0.000	0.000	2.000
28	28	1	0.2000	0.000	0.000	0.000	2.000
29	29	1	0.2000	0.000	0.000	0.000	2.000
30	30	1	0.2000	0.000	0.000	0.000	2.000
31	31	1	0.2000	0.000	0.000	0.000	2.000
32	32	1	0.2000	0.000	0.000	0.000	2.000
33	33	1	0.2000	0.000	0.000	0.000	2.000
34	34	1	0.2000	0.000	0.000	0.000	2.000
35	35	1	0.2000	0.000	0.000	0.000	2.000
36	36	1	0.2000	0.000	0.000	0.000	2.000
37	37	1	0.2000	0.000	0.000	0.000	2.000
38	38	1	0.2000	0.000	0.000	0.000	2.000
39	39	1	0.2000	0.000	0.000	0.000	2.000
40	40	1	0.2000	0.000	0.000	0.000	2.000
41	41	1	0.2000	0.000	0.000	0.000	2.000
42	42	1	0.2000	0.000	0.000	0.000	2.000
43	43	1	0.2000	0.000	0.000	0.000	2.000
44	44	1	0.2000	0.000	0.000	0.000	2.000
45	45	1	0.2000	0.000	0.000	0.000	2.000
46	46	1	0.2000	0.000	0.000	0.000	2.000
47	47	1	0.2000	0.000	0.000	0.000	2.000
48	48	1	0.2000	0.000	0.000	0.000	2.000
49	49	1	0.2000	0.000	0.000	0.000	2.000
50	50	1	0.2000	0.000	0.000	0.000	2.000
51	51	1	0.2000	0.000	0.000	0.000	2.000

52	52	1	0.2000	0.000	0.000	0.000	2.000
53	53	1	0.2000	0.000	0.000	0.000	2.000
54	54	1	0.2000	0.000	0.000	0.000	2.000
55	55	1	0.2000	0.000	0.000	0.000	2.000
56	56	1	0.2000	0.000	0.000	0.000	2.000
57	57	1	0.2000	0.000	0.000	0.000	2.000
58	58	1	0.2000	0.000	0.000	0.000	2.000
59	59	1	0.2000	0.000	0.000	0.000	2.000
60	60	1	0.2000	0.000	0.000	0.000	2.000
61	61	1	0.1000	0.000	0.000	0.000	2.000



39	39	40	1	0.000	0.000	0.2500	0.000	0.000
40	40	41	1	0.000	0.000	0.2500	0.000	0.000
41	41	42	1	0.000	0.000	0.2500	0.000	0.000
42	42	43	1	0.000	0.000	0.2500	0.000	0.000
43	43	44	1	0.000	0.000	0.2500	0.000	0.000
44	44	45	1	0.000	0.000	0.2500	0.000	0.000
45	45	46	1	0.000	0.000	0.2500	0.000	0.000
46	46	47	1	0.000	0.000	0.2500	0.000	0.000
47	47	48	1	0.000	0.000	0.2500	0.000	0.000
48	48	49	1	0.000	0.000	0.2500	0.000	0.000
49	49	50	1	0.000	0.000	0.2500	0.000	0.000
50	50	51	1	0.000	0.000	0.2500	0.000	0.000
51	51	52	1	0.000	0.000	0.2500	0.000	0.000
52	52	53	1	0.000	0.000	0.2500	0.000	0.000
53	53	54	1	0.000	0.000	0.2500	0.000	0.000
54	54	55	1	0.000	0.000	0.2500	0.000	0.000
55	55	56	1	0.000	0.000	0.2500	0.000	0.000
56	56	57	1	0.000	0.000	0.2500	0.000	0.000
57	57	58	1	0.000	0.000	0.2500	0.000	0.000
58	58	59	1	0.000	0.000	0.2500	0.000	0.000
59	59	60	1	0.000	0.000	0.2500	0.000	0.000
60	60	61	1	0.000	0.000	0.2500	0.000	0.000

```
+-----+
|          PARATIEPLUS(TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION  *Build date:Jul 11, 2017*          |
|                                                                                                                                            |
|                                                                                                                                            |
|                                                                                                                                            |
|          NewProject.BaseDesignSection_28.Nominal_63                                                                                       |
|          Exe Time :24 May 2018          18:23:40                                                                                           |
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```
NO. OF NODAL LOADS (NLOAD) ..... 8
NO. OF LOAD CURVES (NLCUR) ..... 14
MAXIMUM POINTS/LCURVE (NPTM)..... 5
```

```

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*          |
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|                                                                                                                                            |
|                                                                                                                                            |
|                                                                                                                                            |
+-----+

```

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
8.00000	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
8.00000	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
8.00000	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
8.00000	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
8.00000	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
8.00000	0.0000E+00



LOAD FUNCTION NUMBER = 7  
NUMBER OF TIME POINTS = 5

TIME VALUE	FUNCTION
0.00000	0.0000E+00
6.80000	0.0000E+00
7.00000	0.1000E+01
7.20000	0.0000E+00
8.00000	0.0000E+00

LOAD FUNCTION NUMBER = 8  
NUMBER OF TIME POINTS = 4

TIME VALUE	FUNCTION
0.00000	0.0000E+00
0.80000	0.0000E+00
1.00000	0.1000E+01
8.00000	0.1000E+01

LOAD FUNCTION NUMBER = 9  
NUMBER OF TIME POINTS = 4

TIME VALUE	FUNCTION
0.00000	0.0000E+00
1.80000	0.0000E+00
2.00000	0.1000E+01
8.00000	0.1000E+01

LOAD FUNCTION NUMBER = 10  
NUMBER OF TIME POINTS = 4

TIME VALUE	FUNCTION
0.00000	0.0000E+00
2.80000	0.0000E+00
3.00000	0.1000E+01
8.00000	0.1000E+01

LOAD FUNCTION NUMBER = 11  
NUMBER OF TIME POINTS = 4

TIME VALUE	FUNCTION
0.00000	0.0000E+00
3.80000	0.0000E+00
4.00000	0.1000E+01
8.00000	0.1000E+01

LOAD FUNCTION NUMBER = 12  
NUMBER OF TIME POINTS = 4

TIME VALUE	FUNCTION
0.00000	0.0000E+00
4.80000	0.0000E+00
5.00000	0.1000E+01
8.00000	0.1000E+01

LOAD FUNCTION NUMBER = 13  
NUMBER OF TIME POINTS = 4

TIME VALUE	FUNCTION
0.00000	0.0000E+00
5.80000	0.0000E+00
6.00000	0.1000E+01
8.00000	0.1000E+01

LOAD FUNCTION NUMBER = 14  
NUMBER OF TIME POINTS = 4

TIME VALUE	FUNCTION
0.00000	0.0000E+00

6.80000	0.0000E+00
7.00000	0.1000E+01
8.00000	0.1000E+01

CONCENTRATED LOADS

NODE	DIRECTION	LOAD CURVE	LOAD CURVE MULTIPL
14	1	4	-0.2000E+02
16	1	4	-0.7200E+02
21	1	5	-0.8050E+02
17	1	5	-0.1050E+03
26	1	6	-0.4520E+02
21	1	6	-0.1810E+03
31	1	14	-0.2410E+03
25	1	14	-0.3220E+03

NO. OF DISTRIBUTED LOAD CARDS 0

```

+-----+
|          PARATIEPLUS(TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION *Build date:Jul 11, 2017*          |
|                                                                                                                                            |
|                                                                                                                                            |
|          NewProject.BaseDesignSection_28.Nominal_63                                                                                       |
|          Exe Time :24 May 2018          18:23:40                                                                                           |
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```

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	-92.0000000
STEP	4	TOTAL APPLIED LOAD IN DIR.	4	X-ROT. F	0.0000000
STEP	5	TOTAL APPLIED LOAD IN DIR.	2	Y-DISPL.F	-185.50000
STEP	5	TOTAL APPLIED LOAD IN DIR.	4	X-ROT. F	0.0000000
STEP	6	TOTAL APPLIED LOAD IN DIR.	2	Y-DISPL.F	-226.20000
STEP	6	TOTAL APPLIED LOAD IN DIR.	4	X-ROT. F	0.0000000
STEP	7	TOTAL APPLIED LOAD IN DIR.	2	Y-DISPL.F	-563.00000
STEP	7	TOTAL APPLIED LOAD IN DIR.	4	X-ROT. F	0.0000000

LOAD INPUT SECTION COMPLETED

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+-----+
|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*          |
|                                                                                                                                            |
|                                                                                                                                            |
|          NewProject.BaseDesignSection_28.Nominal_63                                                                                       |
|          Exe Time :24 May 2018          18:23:40                                                                                           |
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```
NO. OF LAYERS ..... 1
NO. OF DATA PER LAYER..... 100
```

```

+-----+
|          PARATIEPLUS(TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION *Build date:Jul 11, 2017* |
|                                                                                               |
|                                                                                               |
|                                                                                               |
|          NewProject.BaseDesignSection_28.Nominal_63 |
|          Exe Time :24 May 2018          18:23:40   |
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```

LAYER DESCRIPTORS FOR STEP NO. 1

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

```

ITEM NO. 1<NAME      >= 18.000    (BOTH WALLS)
ITEM NO. 2<NATURE   >= 1.0000    (BOTH WALLS)
ITEM NO. 3<LEVEL    >= 0.0000    (BOTH WALLS)
ITEM NO. 4<WALL     >= 1.0000    (BOTH WALLS)
ITEM NO. 5<GAMMAD   >= 19.000    (BOTH WALLS)
ITEM NO. 6<GAMMAB   >= 10.000    (BOTH WALLS)
ITEM NO. 7<GAMMAW   >= 10.000    (BOTH WALLS)
ITEM NO. 9<U-FRICT >= 37.000    (BOTH WALLS)
ITEM NO. 10<U-KA    >= 0.24900   WALL NO.    1
ITEM NO. 11<U-KP    >= 6.7380    WALL NO.    1
ITEM NO. 12<K0-NC   >= 0.50000    (BOTH WALLS)
ITEM NO. 13<NEXP    >= 0.50000    (BOTH WALLS)
ITEM NO. 14<OCR     >= 1.0000    (BOTH WALLS)
ITEM NO. 16<MODEL   >= 1.0000    (BOTH WALLS)
ITEM NO. 17<EVC     >= 55000.    (BOTH WALLS)
ITEM NO. 18<EUR     >= 0.16500E+06 (BOTH WALLS)
ITEM NO. 27<U-PERM  >= 0.10000E-03 (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 >= 37.000    (BOTH WALLS)
ITEM NO. 60<D-KA    >= 0.24900   WALL NO.    1
ITEM NO. 61<D-KP    >= 6.7380    WALL NO.    1
ITEM NO. 77<D-PERM  >= 0.10000E-03 (BOTH WALLS)

```

LAYER DESCRIPTORS FOR STEP NO. 2

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

```

ITEM NO. 1<NAME      >= 18.000    (BOTH WALLS)
ITEM NO. 2<NATURE   >= 1.0000    (BOTH WALLS)
ITEM NO. 3<LEVEL    >= 0.0000    (BOTH WALLS)
ITEM NO. 4<WALL     >= 1.0000    (BOTH WALLS)
ITEM NO. 5<GAMMAD   >= 19.000    (BOTH WALLS)
ITEM NO. 6<GAMMAB   >= 10.000    (BOTH WALLS)
ITEM NO. 7<GAMMAW   >= 10.000    (BOTH WALLS)
ITEM NO. 9<U-FRICT >= 37.000    (BOTH WALLS)
ITEM NO. 10<U-KA    >= 0.24900   WALL NO.    1
ITEM NO. 11<U-KP    >= 6.7380    WALL NO.    1
ITEM NO. 12<K0-NC   >= 0.50000    (BOTH WALLS)
ITEM NO. 13<NEXP    >= 0.50000    (BOTH WALLS)
ITEM NO. 14<OCR     >= 1.0000    (BOTH WALLS)
ITEM NO. 16<MODEL   >= 1.0000    (BOTH WALLS)
ITEM NO. 17<EVC     >= 55000.    (BOTH WALLS)
ITEM NO. 18<EUR     >= 0.16500E+06 (BOTH WALLS)
ITEM NO. 27<U-PERM  >= 0.10000E-03 (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 >= 37.000    (BOTH WALLS)
ITEM NO. 60<D-KA    >= 0.24900   WALL NO.    1
ITEM NO. 61<D-KP    >= 6.7380    WALL NO.    1
ITEM NO. 77<D-PERM  >= 0.10000E-03 (BOTH WALLS)

```

LAYER DESCRIPTORS FOR STEP NO. 3

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

```

ITEM NO. 1<NAME      >= 18.000    (BOTH WALLS)
ITEM NO. 2<NATURE   >= 1.0000    (BOTH WALLS)
ITEM NO. 3<LEVEL    >= 0.0000    (BOTH WALLS)
ITEM NO. 4<WALL     >= 1.0000    (BOTH WALLS)
ITEM NO. 5<GAMMAD   >= 19.000    (BOTH WALLS)
ITEM NO. 6<GAMMAB   >= 10.000    (BOTH WALLS)
ITEM NO. 7<GAMMAW   >= 10.000    (BOTH WALLS)
ITEM NO. 9<U-FRICT >= 37.000    (BOTH WALLS)
ITEM NO. 10<U-KA    >= 0.24900   WALL NO.    1
ITEM NO. 11<U-KP    >= 6.7380    WALL NO.    1
ITEM NO. 12<K0-NC   >= 0.50000    (BOTH WALLS)
ITEM NO. 13<NEXP    >= 0.50000    (BOTH WALLS)
ITEM NO. 14<OCR     >= 1.0000    (BOTH WALLS)
ITEM NO. 16<MODEL   >= 1.0000    (BOTH WALLS)
ITEM NO. 17<EVC     >= 55000.    (BOTH WALLS)
ITEM NO. 18<EUR     >= 0.16500E+06 (BOTH WALLS)
ITEM NO. 27<U-PERM  >= 0.10000E-03 (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 >= 37.000 (BOTH WALLS)  
ITEM NO. 60<D-KA >= 0.24900 WALL NO. 1  
ITEM NO. 61<D-KP >= 6.7380 WALL NO. 1  
ITEM NO. 77<D-PERM >= 0.10000E-03 (BOTH WALLS)

LAYER DESCRIPTORS FOR STEP NO. 4

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

ITEM NO. 1<NAME >= 18.000 (BOTH WALLS)  
ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)  
ITEM NO. 3<LEVEL >= 0.0000 (BOTH WALLS)  
ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)  
ITEM NO. 5<GAMMAD >= 19.000 (BOTH WALLS)  
ITEM NO. 6<GAMMAB >= 10.000 (BOTH WALLS)  
ITEM NO. 7<GAMMAW >= 10.000 (BOTH WALLS)  
ITEM NO. 9<U-FRICT >= 37.000 (BOTH WALLS)  
ITEM NO. 10<U-KA >= 0.24900 WALL NO. 1  
ITEM NO. 11<U-KP >= 6.7380 WALL NO. 1  
ITEM NO. 12<K0-NC >= 0.50000 (BOTH WALLS)  
ITEM NO. 13<NEXP >= 0.50000 (BOTH WALLS)  
ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)  
ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)  
ITEM NO. 17<EVC >= 55000. (BOTH WALLS)  
ITEM NO. 18<EUR >= 0.16500E+06 (BOTH WALLS)  
ITEM NO. 27<U-PERM >= 0.10000E-03 (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 >= 37.000 (BOTH WALLS)  
ITEM NO. 60<D-KA >= 0.24900 WALL NO. 1  
ITEM NO. 61<D-KP >= 6.7380 WALL NO. 1  
ITEM NO. 77<D-PERM >= 0.10000E-03 (BOTH WALLS)

LAYER DESCRIPTORS FOR STEP NO. 5

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

ITEM NO. 1<NAME >= 18.000 (BOTH WALLS)  
ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)  
ITEM NO. 3<LEVEL >= 0.0000 (BOTH WALLS)  
ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)  
ITEM NO. 5<GAMMAD >= 19.000 (BOTH WALLS)  
ITEM NO. 6<GAMMAB >= 10.000 (BOTH WALLS)  
ITEM NO. 7<GAMMAW >= 10.000 (BOTH WALLS)  
ITEM NO. 9<U-FRICT >= 37.000 (BOTH WALLS)  
ITEM NO. 10<U-KA >= 0.24900 WALL NO. 1  
ITEM NO. 11<U-KP >= 6.7380 WALL NO. 1  
ITEM NO. 12<K0-NC >= 0.50000 (BOTH WALLS)  
ITEM NO. 13<NEXP >= 0.50000 (BOTH WALLS)  
ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)  
ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)  
ITEM NO. 17<EVC >= 55000. (BOTH WALLS)  
ITEM NO. 18<EUR >= 0.16500E+06 (BOTH WALLS)  
ITEM NO. 27<U-PERM >= 0.10000E-03 (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 >= 37.000 (BOTH WALLS)  
ITEM NO. 60<D-KA >= 0.24900 WALL NO. 1  
ITEM NO. 61<D-KP >= 6.7380 WALL NO. 1  
ITEM NO. 77<D-PERM >= 0.10000E-03 (BOTH WALLS)

LAYER DESCRIPTORS FOR STEP NO. 6

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

ITEM NO. 1<NAME >= 18.000 (BOTH WALLS)  
ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)  
ITEM NO. 3<LEVEL >= 0.0000 (BOTH WALLS)  
ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)  
ITEM NO. 5<GAMMAD >= 19.000 (BOTH WALLS)  
ITEM NO. 6<GAMMAB >= 10.000 (BOTH WALLS)  
ITEM NO. 7<GAMMAW >= 10.000 (BOTH WALLS)  
ITEM NO. 9<U-FRICT >= 37.000 (BOTH WALLS)  
ITEM NO. 10<U-KA >= 0.24900 WALL NO. 1  
ITEM NO. 11<U-KP >= 6.7380 WALL NO. 1  
ITEM NO. 12<K0-NC >= 0.50000 (BOTH WALLS)  
ITEM NO. 13<NEXP >= 0.50000 (BOTH WALLS)  
ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)  
ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)  
ITEM NO. 17<EVC >= 55000. (BOTH WALLS)  
ITEM NO. 18<EUR >= 0.16500E+06 (BOTH WALLS)  
ITEM NO. 27<U-PERM >= 0.10000E-03 (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 >= 37.000 (BOTH WALLS)  
ITEM NO. 60<D-KA >= 0.24900 WALL NO. 1  
ITEM NO. 61<D-KP >= 6.7380 WALL NO. 1

ITEM NO. 77<D-PERM >= 0.10000E-03 (BOTH WALLS)

LAYER DESCRIPTORS FOR STEP NO. 7

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 1 FOR STEP NO. 7

ITEM NO.	1<NAME	>= 18.000	(BOTH WALLS)	
ITEM NO.	2<NATURE	>= 1.0000	(BOTH WALLS)	
ITEM NO.	3<LEVEL	>= 0.0000	(BOTH WALLS)	
ITEM NO.	4<WALL	>= 1.0000	(BOTH WALLS)	
ITEM NO.	5<GAMMAD	>= 19.000	(BOTH WALLS)	
ITEM NO.	6<GAMMAB	>= 10.000	(BOTH WALLS)	
ITEM NO.	7<GAMMAW	>= 10.000	(BOTH WALLS)	
ITEM NO.	9<U-FRICT	>= 37.000	(BOTH WALLS)	
ITEM NO.	10<U-KA	>= 0.24900	WALL NO.	1
ITEM NO.	11<U-KP	>= 6.7380	WALL NO.	1
ITEM NO.	12<K0-NC	>= 0.50000	(BOTH WALLS)	
ITEM NO.	13<NEXP	>= 0.50000	(BOTH WALLS)	
ITEM NO.	14<OCR	>= 1.0000	(BOTH WALLS)	
ITEM NO.	16<MODEL	>= 1.0000	(BOTH WALLS)	
ITEM NO.	17<EVC	>= 55000.	(BOTH WALLS)	
ITEM NO.	18<EUR	>= 0.16500E+06	(BOTH WALLS)	
ITEM NO.	27<U-PERM	>= 0.10000E-03	(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	>= 37.000	(BOTH WALLS)	
ITEM NO.	60<D-KA	>= 0.24900	WALL NO.	1
ITEM NO.	61<D-KP	>= 6.7380	WALL NO.	1
ITEM NO.	77<D-PERM	>= 0.10000E-03	(BOTH WALLS)	

DEFAULT WATER UNIT WEIGHT = 10.000  
AVERAGED ON 7 VALUES

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
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NewProject.BaseDesignSection_28.Nominal_63
Exe Time :24 May 2018      18:23:40

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PHASE DESCRIPTORS

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STEP NO.      1

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	LEFT WALL	RIGHT WALL
Y	0.000	-0.9990E+30
Z-PC	0.000	0.000
Z-EXCAVATION	0.000	0.000
Z-WATER_TABLE	0.000	-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	-12.00	-12.00
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 1

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STEP NO.      2

```

	LEFT WALL	RIGHT WALL
Y	0.000	-0.9990E+30
Z-PC	0.000	0.000
Z-EXCAVATION	-1.000	0.000
Z-WATER_TABLE	0.000	-0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL	0.000	0.000
ZQ	0.000	0.000
DZW_OF_THE_WATER_TABLE	1.000	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	-12.00	-12.00
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

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STEP NO.      3

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	LEFT WALL	RIGHT WALL
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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	0.000	0.000
Z-EXCAVATION	-5.000	0.000
Z-WATER_TABLE	0.000	-0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL	0.000	0.000
ZQ	0.000	0.000
DZW_OF_THE_WATER_TABLE	5.000	0.000
QS_ON_THE_EXCAVATION_SIDE	0.000	0.000
ZQS	0.000	-0.9990E+30
ZCUT	0.000	0.000
BALANCE LEVEL FOR PORE PRESSURES	-12.00	-12.00
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

STEP NO. 7

	LEFT WALL	RIGHT WALL
Y	0.000	-0.9990E+30
Z-PC	0.000	0.000
Z-EXCAVATION	-6.000	0.000
Z-WATER_TABLE	0.000	-0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL	0.000	0.000
ZQ	0.000	0.000
DZW_OF_THE_WATER_TABLE	6.000	0.000
QS_ON_THE_EXCAVATION_SIDE	0.000	0.000
ZQS	0.000	-0.9990E+30
ZCUT	0.000	0.000
BALANCE LEVEL FOR PORE PRESSURES	-12.00	-12.00
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   7

LEFT-HAND WALL

LOWER LEVEL           -12.00000  
UPPER LEVEL            0.00000

RIGHT-HAND WALL

LOWER LEVEL           -12.00000  
UPPER LEVEL            0.00000

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+-----+
|          PARATIEPLUS(TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION *Build date:Jul 11, 2017* |
|          |
|          NewProject.BaseDesignSection_28.Nominal_63 |
|          Exe Time :24 May 2018      18:23:40 |
+-----+

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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            3

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) 7.0000

TYPE BOUSSINESQ

HORIZONTAL DISTANCE (DY)                5.000000000000000  
FOUNDATION WIDTH    (B)                13.000000000000000  
ZETA-F.....                            0.000000000000000E+000  
Q-F .....                                62.000000000000000  
BETA .....                                45.000000000000000  
BEHAVIOUR (0=FREE, 1=REFLECTING) 0.000000000000000E+000

INPUT DATA FOR INITIAL STRESS SET NO.    2  
PERTAINING SOIL ELEMENTS AT Y-COORD    0.0000

ACTIVATION TIME                            1.0000  
END TIME (TIME BEYOND WHICH IT IS REMOVED) 7.0000

TYPE BOUSSINESQ

HORIZONTAL DISTANCE (DY)                18.000000000000000  
FOUNDATION WIDTH    (B)                17.000000000000000  
ZETA-F.....                            0.000000000000000E+000  
Q-F .....                                45.000000000000000  
BETA .....                                45.000000000000000  
BEHAVIOUR (0=FREE, 1=REFLECTING) 0.000000000000000E+000

INPUT DATA FOR INITIAL STRESS SET NO.    3  
PERTAINING SOIL ELEMENTS AT Y-COORD    0.0000

ACTIVATION TIME                            1.0000  
END TIME (TIME BEYOND WHICH IT IS REMOVED) 7.0000

TYPE BOUSSINESQ

HORIZONTAL DISTANCE (DY)                0.500000000000000  
FOUNDATION WIDTH    (B)                4.500000000000000  
ZETA-F.....                            0.000000000000000E+000  
Q-F .....                                10.000000000000000  
BETA .....                                45.000000000000000  
BEHAVIOUR (0=FREE, 1=REFLECTING) 0.000000000000000E+000

ELEMENT GROUPS BACKUP AREA CAN STAY IN CORE AT  
POSITION                            3123

NO. OF D.P.W FOR THIS AREA            7200  
MAX NO. OF D.P.W. AVAILABLE           81920  
\*\* MAX NO OF ITERATIONS SET TO            40

ITER    0  RNORM = 0.000    RMNORM= 0.000  
          RINORM=0.6763E+05 RIMNOR= 0.000  
          RENORM=0.1175E-27 REMNOR= 0.000    RATIO =0.4169E-16 TOLER =0.1000E-03    CONVERGED !  
          RFMAX = 38.54    RMMAX = 0.000  
          RTSMAL=0.1000E-03 RMSMAL= 0.000  
          RDT    =0.6763E+05 RDR    = 0.000  
          RATIO=0.4169E-16 RATIO= 0.000  
          MAX UN=0.7105E-14 IEQ=    107 NODE    54 DOF    1    Y-DISPL.F  
          MIN UN=-.3553E-14 IEQ=    75 NODE    38 DOF    1    Y-DISPL.F  
          NO. OF CONTACT CONSTRAINT VIOLATIONS    0

ITER    1  RNORM = 0.000    RMNORM= 0.000  
          RINORM=0.6763E+05 RIMNOR= 0.000  
          RENORM=0.5795E-29 REMNOR=0.1118E-53 RATIO =0.9256E-17 TOLER =0.1000E-03    CONVERGED !  
          RFMAX = 38.54    RMMAX = 0.000  
          RTSMAL=0.1000E-03 RMSMAL= 0.000  
          RDT    =0.6763E+05 RDR    = 0.000  
          RATIO=0.9256E-17 RATIO= 0.000  
          MAX UN=0.4696E-15 IEQ=    113 NODE    57 DOF    1    Y-DISPL.F

MIN UN=-.6080E-27 IEQ= 116 NODE 58 DOF 2 X-ROT. F  
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 2 RNORM = 0.000 RMNORM= 0.000  
RINORM=0.6763E+05 RIMNOR= 0.000  
RENORM=0.5562E-29 REMNOR=0.2464E-53 RATIO =0.9069E-17 TOLER =0.1000E-03 CONVERGED !  
RFMAX = 38.54 RMMAX = 0.000  
RTSMAL=0.1000E-03 RMSMAL= 0.000  
RDT =0.6763E+05 RDR = 0.000  
RATIOT=0.9069E-17 RATIOOR= 0.000  
MAX UN=0.4712E-15 IEQ= 119 NODE 60 DOF 1 Y-DISPL.F  
MIN UN=-.1245E-17 IEQ= 1 NODE 1 DOF 1 Y-DISPL.F  
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|                               NewProject.BaseDesignSection_28.Nominal_63                       |
|                               Exe Time :24 May 2018      18:23:40                             |
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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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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION *Build date:Jul 11, 2017*          |
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New Project

STRESS RESULTS FOR GROUP NO. 1

0\_L  
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 61  
CURRENT TIME IS 1.0000

HARDENING 2D SOIL ELEMENT

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

EL * FACTOR	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
1 D	0.000	-1.3571E-21	0.000	0.000	0.000	0.000	V-C	6.8946E+04	0.000	0.000	
1.000	1.000	0.000	0.000	0.000	Ug5_2_8_L_0						
2 D	1.270	-2.2581E-21	2.114	4.348	2.114	4.348	V-C	6.8946E+04	-0.2000	2.000	
1.000	1.000	6.348	0.000	0.000	Ug5_2_8_L_0						
3 D	2.354	-3.1591E-21	4.601	7.770	4.601	7.770	V-C	6.8946E+04	-0.4000	4.000	
1.000	1.000	11.77	0.000	0.000	Ug5_2_8_L_0						
4 D	3.287	-4.0598E-21	7.242	10.44	7.242	10.44	V-C	6.8946E+04	-0.6000	6.000	
1.000	1.000	16.44	0.000	0.000	Ug5_2_8_L_0						
5 D	4.145	-4.9591E-21	10.19	12.73	10.19	12.73	V-C	6.8946E+04	-0.8000	8.000	
1.000	1.000	20.73	0.000	0.000	Ug5_2_8_L_0						
6 D	4.966	-5.8593E-21	13.14	14.83	13.14	14.83	V-C	6.8946E+04	-1.000	10.00	
1.000	1.000	24.83	0.000	0.000	Ug5_2_8_L_0						
7 D	5.766	-6.7786E-21	15.66	16.83	15.66	16.83	V-C	6.8946E+04	-1.200	12.00	
1.000	1.000	28.83	0.000	0.000	Ug5_2_8_L_0						
8 D	6.550	-7.7376E-21	18.10	18.75	18.10	18.75	V-C	6.8946E+04	-1.400	14.00	
1.000	1.000	32.75	0.000	0.000	Ug5_2_8_L_0						
9 D	7.322	-8.7548E-21	20.63	20.61	20.63	20.61	V-C	6.8946E+04	-1.600	16.00	
1.000	1.000	36.61	0.000	0.000	Ug5_2_8_L_0						
10 D	8.081	-9.8461E-21	22.98	22.41	22.98	22.41	V-C	6.8946E+04	-1.800	18.00	
1.000	1.000	40.41	0.000	0.000	Ug5_2_8_L_0						
11 D	8.830	-1.1024E-20	25.44	24.15	25.44	24.15	V-C	6.8946E+04	-2.000	20.00	
1.000	1.000	44.15	0.000	0.000	Ug5_2_8_L_0						
12 D	9.567	-1.2299E-20	27.77	25.83	27.77	25.83	V-C	6.8946E+04	-2.200	22.00	
1.000	1.000	47.83	0.000	0.000	Ug5_2_8_L_0						
13 D	10.29	-1.3675E-20	30.20	27.46	30.20	27.46	V-C	6.8946E+04	-2.400	24.00	
1.000	1.000	51.46	0.000	0.000	Ug5_2_8_L_0						
14 D	11.01	-1.5155E-20	32.54	29.04	32.54	29.04	V-C	6.8946E+04	-2.600	26.00	
1.000	1.000	55.04	0.000	0.000	Ug5_2_8_L_0						
15 D	11.71	-1.6735E-20	34.97	30.56	34.97	30.56	V-C	6.8946E+04	-2.800	28.00	
1.000	1.000	58.56	0.000	0.000	Ug5_2_8_L_0						
16 D	12.40	-1.8407E-20	37.33	32.02	37.33	32.02	V-C	6.8946E+04	-3.000	30.00	
1.000	1.000	62.02	0.000	0.000	Ug5_2_8_L_0						
17 D	13.09	-2.0156E-20	39.77	33.44	39.77	33.44	V-C	6.8946E+04	-3.200	32.00	
1.000	1.000	65.44	0.000	0.000	Ug5_2_8_L_0						
18 D	13.76	-2.1962E-20	42.15	34.81	42.15	34.81	V-C	6.8946E+04	-3.400	34.00	
1.000	1.000	68.81	0.000	0.000	Ug5_2_8_L_0						
19 D	14.43	-2.3800E-20	44.53	36.14	44.53	36.14	V-C	6.8946E+04	-3.600	36.00	
1.000	1.000	72.14	0.000	0.000	Ug5_2_8_L_0						
20 D	15.08	-2.5627E-20	46.99	37.42	46.99	37.42	V-C	6.8946E+04	-3.800	38.00	
1.000	1.000	75.42	0.000	0.000	Ug5_2_8_L_0						
21 D	15.73	-2.7377E-20	49.38	38.66	49.38	38.66	V-C	6.8946E+04	-4.000	40.00	
1.000	1.000	78.66	0.000	0.000	Ug5_2_8_L_0						
22 D	16.37	-2.9035E-20	51.84	39.87	51.84	39.87	V-C	6.8946E+04	-4.200	42.00	
1.000	1.000	81.87	0.000	0.000	Ug5_2_8_L_0						
23 D	17.01	-3.0598E-20	54.24	41.04	54.24	41.04	V-C	6.8946E+04	-4.400	44.00	
1.000	1.000	85.04	0.000	0.000	Ug5_2_8_L_0						
24 D	17.64	-3.2052E-20	56.69	42.18	56.69	42.18	V-C	6.8946E+04	-4.600	46.00	
1.000	1.000	88.18	0.000	0.000	Ug5_2_8_L_0						
25 D	18.26	-3.3376E-20	59.09	43.29	59.09	43.29	V-C	6.8946E+04	-4.800	48.00	
1.000	1.000	91.29	0.000	0.000	Ug5_2_8_L_0						
26 D	18.87	-3.4538E-20	61.49	44.37	61.49	44.37	V-C	6.8946E+04	-5.000	50.00	
1.000	1.000	94.37	0.000	0.000	Ug5_2_8_L_0						
27 D	19.49	-3.5499E-20	63.72	45.43	63.72	45.43	V-C	6.8946E+04	-5.200	52.00	
1.000	1.000	97.43	0.000	0.000	Ug5_2_8_L_0						
28 D	20.09	-3.6210E-20	65.95	46.47	65.95	46.47	V-C	6.8946E+04	-5.400	54.00	
1.000	1.000	100.5	0.000	0.000	Ug5_2_8_L_0						
29 D	20.70	-3.6626E-20	68.19	47.48	68.19	47.48	V-C	6.8946E+04	-5.600	56.00	
1.000	1.000	103.5	0.000	0.000	Ug5_2_8_L_0						
30 D	21.30	-3.6766E-20	70.43	48.48	70.43	48.48	V-C	6.8946E+04	-5.800	58.00	
1.000	1.000	106.5	0.000	0.000	Ug5_2_8_L_0						
31 D	21.89	-3.6654E-20	72.67	49.46	72.67	49.46	V-C	6.8946E+04	-6.000	60.00	
1.000	1.000	109.5	0.000	0.000	Ug5_2_8_L_0						
32 D	22.48	-3.6305E-20	74.91	50.42	74.91	50.42	V-C	6.8946E+04	-6.200	62.00	
1.000	1.000	112.4	0.000	0.000	Ug5_2_8_L_0						
33 D	23.07	-3.5722E-20	77.15	51.37	77.15	51.37	V-C	6.8946E+04	-6.400	64.00	

1.000	1.000	115.4	0.000	0.000	Ug5_2_8_L_0					
34 D	23.66	-3.4900E-20	79.63	52.31	79.63	52.31	V-C	6.8946E+04	-6.600	66.00
1.000	1.000	118.3	0.000	0.000	Ug5_2_8_L_0					
35 D	24.25	-3.3840E-20	82.01	53.23	82.01	53.23	V-C	6.8946E+04	-6.800	68.00
1.000	1.000	121.2	0.000	0.000	Ug5_2_8_L_0					
36 D	24.83	-3.2603E-20	84.95	54.14	84.95	54.14	V-C	6.8946E+04	-7.000	70.00
1.000	1.000	124.1	0.000	0.000	Ug5_2_8_L_0					
37 D	25.41	-3.1274E-20	87.30	55.05	87.30	55.05	V-C	6.8946E+04	-7.200	72.00
1.000	1.000	127.0	0.000	0.000	Ug5_2_8_L_0					
38 D	25.99	-2.9999E-20	90.17	55.95	90.17	55.95	V-C	6.8946E+04	-7.400	74.00
1.000	1.000	129.9	0.000	0.000	Ug5_2_8_L_0					
39 D	26.57	-2.8912E-20	92.48	56.83	92.48	56.83	V-C	6.8946E+04	-7.600	76.00
1.000	1.000	132.8	0.000	0.000	Ug5_2_8_L_0					
40 D	27.14	-2.8071E-20	95.30	57.72	95.30	57.72	V-C	6.8946E+04	-7.800	78.00
1.000	1.000	135.7	0.000	0.000	Ug5_2_8_L_0					
41 D	27.72	-2.7504E-20	98.08	58.59	98.08	58.59	V-C	6.8946E+04	-8.000	80.00
1.000	1.000	138.6	0.000	0.000	Ug5_2_8_L_0					
42 D	28.29	-2.7233E-20	100.4	59.46	100.4	59.46	V-C	6.8946E+04	-8.200	82.00
1.000	1.000	141.5	0.000	0.000	Ug5_2_8_L_0					
43 D	28.87	-2.7268E-20	103.1	60.33	103.1	60.33	V-C	6.8946E+04	-8.400	84.00
1.000	1.000	144.3	0.000	0.000	Ug5_2_8_L_0					
44 D	29.44	-2.7611E-20	105.3	61.19	105.3	61.19	V-C	6.8946E+04	-8.600	86.00
1.000	1.000	147.2	0.000	0.000	Ug5_2_8_L_0					
45 D	30.01	-2.8253E-20	108.0	62.05	108.0	62.05	V-C	6.8946E+04	-8.800	88.00
1.000	1.000	150.0	0.000	0.000	Ug5_2_8_L_0					
46 D	30.58	-2.9177E-20	110.3	62.90	110.3	62.90	V-C	6.8946E+04	-9.000	90.00
1.000	1.000	152.9	0.000	0.000	Ug5_2_8_L_0					
47 D	31.15	-3.0356E-20	112.9	63.75	112.9	63.75	V-C	6.8946E+04	-9.200	92.00
1.000	1.000	155.8	0.000	0.000	Ug5_2_8_L_0					
48 D	31.72	-3.1753E-20	115.1	64.60	115.1	64.60	V-C	6.8946E+04	-9.400	94.00
1.000	1.000	158.6	0.000	0.000	Ug5_2_8_L_0					
49 D	32.29	-3.3322E-20	117.7	65.45	117.7	65.45	V-C	6.8946E+04	-9.600	96.00
1.000	1.000	161.4	0.000	0.000	Ug5_2_8_L_0					
50 D	32.86	-3.5007E-20	119.9	66.29	119.9	66.29	V-C	6.8946E+04	-9.800	98.00
1.000	1.000	164.3	0.000	0.000	Ug5_2_8_L_0					
51 D	33.43	-3.6739E-20	122.5	67.13	122.5	67.13	V-C	6.8946E+04	-10.000	100.00
1.000	1.000	167.1	0.000	0.000	Ug5_2_8_L_0					
52 D	34.00	-3.8441E-20	124.7	67.98	124.7	67.98	V-C	6.8946E+04	-10.200	102.0
1.000	1.000	170.0	0.000	0.000	Ug5_2_8_L_0					
53 D	34.56	-4.0025E-20	127.3	68.82	127.3	68.82	V-C	6.8946E+04	-10.400	104.0
1.000	1.000	172.8	0.000	0.000	Ug5_2_8_L_0					
54 D	35.13	-4.1391E-20	129.8	69.66	129.8	69.66	V-C	6.8946E+04	-10.600	106.0
1.000	1.000	175.7	0.000	0.000	Ug5_2_8_L_0					
55 D	35.70	-4.2462E-20	132.0	70.50	132.0	70.50	V-C	6.8946E+04	-10.800	108.0
1.000	1.000	178.5	0.000	0.000	Ug5_2_8_L_0					
56 D	36.27	-4.3288E-20	134.5	71.34	134.5	71.34	V-C	6.8946E+04	-11.000	110.0
1.000	1.000	181.3	0.000	0.000	Ug5_2_8_L_0					
57 D	36.84	-4.3943E-20	136.7	72.18	136.7	72.18	V-C	6.8946E+04	-11.200	112.0
1.000	1.000	184.2	0.000	0.000	Ug5_2_8_L_0					
58 D	37.40	-4.4486E-20	139.2	73.02	139.2	73.02	V-C	6.8946E+04	-11.400	114.0
1.000	1.000	187.0	0.000	0.000	Ug5_2_8_L_0					
59 D	37.97	-4.4964E-20	141.3	73.86	141.3	73.86	V-C	6.8946E+04	-11.600	116.0
1.000	1.000	189.9	0.000	0.000	Ug5_2_8_L_0					
60 D	38.54	-4.5412E-20	143.8	74.70	143.8	74.70	V-C	6.8946E+04	-11.800	118.0
1.000	1.000	192.7	0.000	0.000	Ug5_2_8_L_0					
61 D	19.55	-4.5851E-20	145.9	75.54	145.9	75.54	V-C	6.8946E+04	-12.000	120.0
1.000	1.000	195.5	0.000	0.000	Ug5_2_8_L_0					



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|                PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*                |
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|                                                                                                                                            |
|                NewProject.BaseDesignSection_28.Nominal_63                                                                              |
|                Exe Time :24 May 2018      18:23:40                                                                              |
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New Project

STRESS RESULTS FOR GROUP NO. 2

0\_R :  
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 61  
CURRENT TIME IS 1.0000

HARDENING 2D SOIL ELEMENT

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

EL * FACTOR	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
1 D	0.000	1.3571E-21	0.000	0.000	0.000	0.000	V-C	3.4277E+04	0.000	0.000	
1.000	1.000	0.000	0.000	0.000	Ug5_2_8_L_0						
2 D	1.270	2.2581E-21	2.000	4.348	2.000	4.348	V-C	3.4277E+04	-0.2000	2.000	
1.000	1.000	6.348	0.000	0.000	Ug5_2_8_L_0						
3 D	2.354	3.1591E-21	4.000	7.770	4.000	7.770	V-C	3.4277E+04	-0.4000	4.000	
1.000	1.000	11.77	0.000	0.000	Ug5_2_8_L_0						
4 D	3.287	4.0598E-21	6.000	10.44	6.000	10.44	V-C	3.4277E+04	-0.6000	6.000	
1.000	1.000	16.44	0.000	0.000	Ug5_2_8_L_0						
5 D	4.145	4.9591E-21	8.000	12.73	8.000	12.73	V-C	3.4277E+04	-0.8000	8.000	
1.000	1.000	20.73	0.000	0.000	Ug5_2_8_L_0						
6 D	4.966	5.8593E-21	10.00	14.83	10.00	14.83	V-C	3.4277E+04	-1.000	10.00	
1.000	1.000	24.83	0.000	0.000	Ug5_2_8_L_0						
7 D	5.766	6.7786E-21	12.00	16.83	12.00	16.83	V-C	3.4277E+04	-1.200	12.00	
1.000	1.000	28.83	0.000	0.000	Ug5_2_8_L_0						
8 D	6.550	7.7376E-21	14.00	18.75	14.00	18.75	V-C	3.4277E+04	-1.400	14.00	
1.000	1.000	32.75	0.000	0.000	Ug5_2_8_L_0						
9 D	7.322	8.7548E-21	16.00	20.61	16.00	20.61	V-C	3.4277E+04	-1.600	16.00	
1.000	1.000	36.61	0.000	0.000	Ug5_2_8_L_0						
10 D	8.081	9.8461E-21	18.00	22.41	18.00	22.41	V-C	3.4277E+04	-1.800	18.00	
1.000	1.000	40.41	0.000	0.000	Ug5_2_8_L_0						
11 D	8.830	1.1024E-20	20.00	24.15	20.00	24.15	V-C	3.4277E+04	-2.000	20.00	
1.000	1.000	44.15	0.000	0.000	Ug5_2_8_L_0						
12 D	9.567	1.2299E-20	22.00	25.83	22.00	25.83	V-C	3.4277E+04	-2.200	22.00	
1.000	1.000	47.83	0.000	0.000	Ug5_2_8_L_0						
13 D	10.29	1.3675E-20	24.00	27.46	24.00	27.46	V-C	3.4277E+04	-2.400	24.00	
1.000	1.000	51.46	0.000	0.000	Ug5_2_8_L_0						
14 D	11.01	1.5155E-20	26.00	29.04	26.00	29.04	V-C	3.4277E+04	-2.600	26.00	
1.000	1.000	55.04	0.000	0.000	Ug5_2_8_L_0						
15 D	11.71	1.6735E-20	28.00	30.56	28.00	30.56	V-C	3.4277E+04	-2.800	28.00	
1.000	1.000	58.56	0.000	0.000	Ug5_2_8_L_0						
16 D	12.40	1.8407E-20	30.00	32.02	30.00	32.02	V-C	3.4277E+04	-3.000	30.00	
1.000	1.000	62.02	0.000	0.000	Ug5_2_8_L_0						
17 D	13.09	2.0156E-20	32.00	33.44	32.00	33.44	V-C	3.4277E+04	-3.200	32.00	
1.000	1.000	65.44	0.000	0.000	Ug5_2_8_L_0						
18 D	13.76	2.1962E-20	34.00	34.81	34.00	34.81	V-C	3.4277E+04	-3.400	34.00	
1.000	1.000	68.81	0.000	0.000	Ug5_2_8_L_0						
19 D	14.43	2.3800E-20	36.00	36.14	36.00	36.14	V-C	3.4277E+04	-3.600	36.00	
1.000	1.000	72.14	0.000	0.000	Ug5_2_8_L_0						
20 D	15.08	2.5627E-20	38.00	37.42	38.00	37.42	V-C	3.4277E+04	-3.800	38.00	
1.000	1.000	75.42	0.000	0.000	Ug5_2_8_L_0						
21 D	15.73	2.7377E-20	40.00	38.66	40.00	38.66	V-C	3.4277E+04	-4.000	40.00	
1.000	1.000	78.66	0.000	0.000	Ug5_2_8_L_0						
22 D	16.37	2.9035E-20	42.00	39.87	42.00	39.87	V-C	3.4277E+04	-4.200	42.00	
1.000	1.000	81.87	0.000	0.000	Ug5_2_8_L_0						
23 D	17.01	3.0598E-20	44.00	41.04	44.00	41.04	V-C	3.4277E+04	-4.400	44.00	
1.000	1.000	85.04	0.000	0.000	Ug5_2_8_L_0						
24 D	17.64	3.2052E-20	46.00	42.18	46.00	42.18	V-C	3.4277E+04	-4.600	46.00	
1.000	1.000	88.18	0.000	0.000	Ug5_2_8_L_0						
25 D	18.26	3.3376E-20	48.00	43.29	48.00	43.29	V-C	3.4277E+04	-4.800	48.00	
1.000	1.000	91.29	0.000	0.000	Ug5_2_8_L_0						
26 D	18.87	3.4538E-20	50.00	44.37	50.00	44.37	V-C	3.4277E+04	-5.000	50.00	
1.000	1.000	94.37	0.000	0.000	Ug5_2_8_L_0						
27 D	19.49	3.5499E-20	52.00	45.43	52.00	45.43	V-C	3.4277E+04	-5.200	52.00	
1.000	1.000	97.43	0.000	0.000	Ug5_2_8_L_0						
28 D	20.09	3.6210E-20	54.00	46.47	54.00	46.47	V-C	3.4277E+04	-5.400	54.00	
1.000	1.000	100.5	0.000	0.000	Ug5_2_8_L_0						
29 D	20.70	3.6626E-20	56.00	47.48	56.00	47.48	V-C	3.4277E+04	-5.600	56.00	
1.000	1.000	103.5	0.000	0.000	Ug5_2_8_L_0						
30 D	21.30	3.6766E-20	58.00	48.48	58.00	48.48	V-C	3.4277E+04	-5.800	58.00	
1.000	1.000	106.5	0.000	0.000	Ug5_2_8_L_0						
31 D	21.89	3.6654E-20	60.00	49.46	60.00	49.46	V-C	3.4277E+04	-6.000	60.00	
1.000	1.000	109.5	0.000	0.000	Ug5_2_8_L_0						
32 D	22.48	3.6305E-20	62.00	50.42	62.00	50.42	V-C	3.4277E+04	-6.200	62.00	
1.000	1.000	112.4	0.000	0.000	Ug5_2_8_L_0						
33 D	23.07	3.5722E-20	64.00	51.37	64.00	51.37	V-C	3.4277E+04	-6.400	64.00	

1.000	1.000	115.4	0.000	0.000	Ug5_2_8_L_0					
34 D	23.66	3.4900E-20	66.00	52.31	66.00	52.31	V-C	3.4277E+04	-6.600	66.00
1.000	1.000	118.3	0.000	0.000	Ug5_2_8_L_0					
35 D	24.25	3.3840E-20	68.00	53.23	68.00	53.23	V-C	3.4277E+04	-6.800	68.00
1.000	1.000	121.2	0.000	0.000	Ug5_2_8_L_0					
36 D	24.83	3.2603E-20	70.00	54.14	70.00	54.14	V-C	3.4277E+04	-7.000	70.00
1.000	1.000	124.1	0.000	0.000	Ug5_2_8_L_0					
37 D	25.41	3.1274E-20	72.00	55.05	72.00	55.05	V-C	3.4277E+04	-7.200	72.00
1.000	1.000	127.0	0.000	0.000	Ug5_2_8_L_0					
38 D	25.99	2.9999E-20	74.00	55.95	74.00	55.95	V-C	3.4277E+04	-7.400	74.00
1.000	1.000	129.9	0.000	0.000	Ug5_2_8_L_0					
39 D	26.57	2.8912E-20	76.00	56.83	76.00	56.83	V-C	3.4277E+04	-7.600	76.00
1.000	1.000	132.8	0.000	0.000	Ug5_2_8_L_0					
40 D	27.14	2.8071E-20	78.00	57.72	78.00	57.72	V-C	3.4277E+04	-7.800	78.00
1.000	1.000	135.7	0.000	0.000	Ug5_2_8_L_0					
41 D	27.72	2.7504E-20	80.00	58.59	80.00	58.59	V-C	3.4277E+04	-8.000	80.00
1.000	1.000	138.6	0.000	0.000	Ug5_2_8_L_0					
42 D	28.29	2.7233E-20	82.00	59.46	82.00	59.46	V-C	3.4277E+04	-8.200	82.00
1.000	1.000	141.5	0.000	0.000	Ug5_2_8_L_0					
43 D	28.87	2.7268E-20	84.00	60.33	84.00	60.33	V-C	3.4277E+04	-8.400	84.00
1.000	1.000	144.3	0.000	0.000	Ug5_2_8_L_0					
44 D	29.44	2.7611E-20	86.00	61.19	86.00	61.19	V-C	3.4277E+04	-8.600	86.00
1.000	1.000	147.2	0.000	0.000	Ug5_2_8_L_0					
45 D	30.01	2.8253E-20	88.00	62.05	88.00	62.05	V-C	3.4277E+04	-8.800	88.00
1.000	1.000	150.0	0.000	0.000	Ug5_2_8_L_0					
46 D	30.58	2.9177E-20	90.00	62.90	90.00	62.90	V-C	3.4277E+04	-9.000	90.00
1.000	1.000	152.9	0.000	0.000	Ug5_2_8_L_0					
47 D	31.15	3.0356E-20	92.00	63.75	92.00	63.75	V-C	3.4277E+04	-9.200	92.00
1.000	1.000	155.8	0.000	0.000	Ug5_2_8_L_0					
48 D	31.72	3.1753E-20	94.00	64.60	94.00	64.60	V-C	3.4277E+04	-9.400	94.00
1.000	1.000	158.6	0.000	0.000	Ug5_2_8_L_0					
49 D	32.29	3.3322E-20	96.00	65.45	96.00	65.45	V-C	3.4277E+04	-9.600	96.00
1.000	1.000	161.4	0.000	0.000	Ug5_2_8_L_0					
50 D	32.86	3.5007E-20	98.00	66.29	98.00	66.29	V-C	3.4277E+04	-9.800	98.00
1.000	1.000	164.3	0.000	0.000	Ug5_2_8_L_0					
51 D	33.43	3.6739E-20	100.00	67.13	100.00	67.13	V-C	3.4277E+04	-10.000	100.00
1.000	1.000	167.1	0.000	0.000	Ug5_2_8_L_0					
52 D	34.00	3.8441E-20	102.0	67.98	102.0	67.98	V-C	3.4277E+04	-10.200	102.0
1.000	1.000	170.0	0.000	0.000	Ug5_2_8_L_0					
53 D	34.56	4.0025E-20	104.0	68.82	104.0	68.82	V-C	3.4277E+04	-10.400	104.0
1.000	1.000	172.8	0.000	0.000	Ug5_2_8_L_0					
54 D	35.13	4.1391E-20	106.0	69.66	106.0	69.66	V-C	3.4277E+04	-10.600	106.0
1.000	1.000	175.7	0.000	0.000	Ug5_2_8_L_0					
55 D	35.70	4.2462E-20	108.0	70.50	108.0	70.50	V-C	3.4277E+04	-10.800	108.0
1.000	1.000	178.5	0.000	0.000	Ug5_2_8_L_0					
56 D	36.27	4.3288E-20	110.0	71.34	110.0	71.34	V-C	3.4277E+04	-11.000	110.0
1.000	1.000	181.3	0.000	0.000	Ug5_2_8_L_0					
57 D	36.84	4.3943E-20	112.0	72.18	112.0	72.18	V-C	3.4277E+04	-11.200	112.0
1.000	1.000	184.2	0.000	0.000	Ug5_2_8_L_0					
58 D	37.40	4.4486E-20	114.0	73.02	114.0	73.02	V-C	3.4277E+04	-11.400	114.0
1.000	1.000	187.0	0.000	0.000	Ug5_2_8_L_0					
59 D	37.97	4.4964E-20	116.0	73.86	116.0	73.86	V-C	3.4277E+04	-11.600	116.0
1.000	1.000	189.9	0.000	0.000	Ug5_2_8_L_0					
60 D	38.54	4.5412E-20	118.0	74.70	118.0	74.70	V-C	3.4277E+04	-11.800	118.0
1.000	1.000	192.7	0.000	0.000	Ug5_2_8_L_0					
61 D	19.55	4.5851E-20	120.0	75.54	120.0	75.54	V-C	3.4277E+04	-12.000	120.0
1.000	1.000	195.5	0.000	0.000	Ug5_2_8_L_0					

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|                PARATIEPLUS(TM)   NLS ENGINE RELEASE 2017.1   FULL VERSION *Build date:Jul 11, 2017* |
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New Project

STRESS RESULTS FOR GROUP NO. 3

WallElement\_33 :  
ELEMENT TYPE 2 NO.OF ELEMENTS. IN THIS GROUP 60  
CURRENT TIME IS 1.0000

WALL2D ELEMENT

EL	TA	TB	MA	MB
1	1.24507E-18	-1.24507E-18	-1.57772E-29	2.49015E-19
2	-9.10638E-18	9.10638E-18	-2.49015E-19	-1.57226E-18
3	-3.23120E-17	3.23120E-17	1.57226E-18	-8.03466E-18
4	-6.84093E-17	6.84093E-17	8.03466E-18	-2.17165E-17
5	7.70706E-16	-7.70706E-16	2.17165E-17	1.32425E-16
6	7.08561E-16	-7.08561E-16	-1.32425E-16	2.74137E-16
7	6.33171E-16	-6.33171E-16	-2.74137E-16	4.00771E-16
8	5.44329E-16	-5.44329E-16	-4.00771E-16	5.09637E-16
9	4.41792E-16	-4.41792E-16	-5.09637E-16	5.97996E-16
10	3.25288E-16	-3.25288E-16	-5.97996E-16	6.63053E-16
11	1.94536E-16	-1.94536E-16	-6.63053E-16	7.01961E-16
12	4.92599E-17	-4.92599E-17	-7.01961E-16	7.11812E-16
13	-1.10792E-16	1.10792E-16	-7.11812E-16	6.89654E-16
14	-2.85820E-16	2.85820E-16	-6.89654E-16	6.32490E-16
15	-4.75956E-16	4.75956E-16	-6.32490E-16	5.37299E-16
16	-6.81238E-16	6.81238E-16	-5.37299E-16	4.01051E-16
17	-9.01590E-16	9.01590E-16	-4.01051E-16	2.20732E-16
18	-1.13680E-15	1.13680E-15	-2.20732E-16	-6.62829E-18
19	-3.16288E-15	3.16288E-15	-6.62829E-18	-6.39204E-16
20	1.26120E-16	-1.26120E-16	6.39204E-16	-6.13981E-16
21	-1.50914E-16	1.50914E-16	6.13981E-16	-6.44163E-16
22	-4.40431E-16	4.40431E-16	6.44163E-16	-7.32250E-16
23	-7.41444E-16	7.41444E-16	7.32250E-16	-8.80538E-16
24	-1.05282E-15	1.05282E-15	8.80538E-16	-1.09110E-15
25	-1.37330E-15	1.37330E-15	1.09110E-15	-1.36576E-15
26	-1.70154E-15	1.70154E-15	1.36576E-15	-1.70607E-15
27	-2.03610E-15	2.03610E-15	1.70607E-15	-2.11329E-15
28	1.17719E-15	-1.17719E-15	2.11329E-15	-1.87785E-15
29	8.34375E-16	-8.34375E-16	1.87785E-15	-1.71098E-15
30	4.89586E-16	-4.89586E-16	1.71098E-15	-1.61306E-15
31	1.44162E-16	-1.44162E-16	1.61306E-15	-1.58423E-15
32	-2.00685E-16	2.00685E-16	1.58423E-15	-1.62436E-15
33	-5.43907E-16	5.43907E-16	1.62436E-15	-1.73315E-15
34	2.66805E-15	-2.66805E-15	1.73315E-15	-1.19954E-15
35	2.33038E-15	-2.33038E-15	1.19954E-15	-7.33459E-16
36	5.54887E-15	-5.54887E-15	7.33459E-16	3.76310E-16
37	5.21817E-15	-5.21817E-15	3.76310E-16	1.41994E-15
38	1.33812E-15	-1.33812E-15	1.41994E-15	1.68757E-15
39	1.01368E-15	-1.01368E-15	1.68757E-15	1.89030E-15
40	6.91464E-16	-6.91464E-16	1.89030E-15	2.02860E-15
41	3.70580E-16	-3.70580E-16	2.02860E-15	2.10271E-15
42	4.99604E-17	-4.99604E-17	2.10271E-15	2.11270E-15
43	-2.71586E-16	2.71586E-16	-2.11270E-15	2.05839E-15
44	-5.95329E-16	5.95329E-16	-2.05839E-15	1.93932E-15
45	-9.22573E-16	9.22573E-16	-1.93932E-15	1.75481E-15
46	-1.25460E-15	1.25460E-15	-1.75481E-15	1.50389E-15
47	-1.59265E-15	1.59265E-15	-1.50389E-15	1.18536E-15
48	-1.93785E-15	1.93785E-15	-1.18536E-15	7.97787E-16
49	-2.29121E-15	2.29121E-15	-7.97787E-16	3.39547E-16
50	-2.65359E-15	2.65359E-15	-3.39547E-16	-1.91171E-16
51	-3.02571E-15	3.02571E-15	-1.91171E-16	-7.96329E-16
52	-3.40812E-15	3.40812E-15	-7.96329E-16	-1.47792E-15
53	-3.80121E-15	3.80121E-15	-1.47792E-15	-2.23816E-15
54	-2.90018E-15	2.90018E-15	-2.23816E-15	-1.65812E-15
55	-2.48502E-15	2.48502E-15	-1.65812E-15	-1.16112E-15
56	-2.05867E-15	2.05867E-15	-1.16112E-15	-7.49387E-16
57	-1.62110E-15	1.62110E-15	-7.49387E-16	-4.25167E-16
58	-1.17232E-15	1.17232E-15	-4.25167E-16	-1.90704E-16
59	-7.12336E-16	7.12336E-16	-1.90704E-16	-4.82368E-17
60	-2.41172E-16	2.41172E-16	-4.82368E-17	-1.45150E-28

ITER 0 RNORM = 0.000 RMNORM= 0.000  
RINORM=0.6175E+05 RIMNOR=0.1713E-27  
RENORM= 262.9 REMNOR=0.2464E-53 RATIO =0.6524E-01 TOLER =0.1000E-03 NOT CONVERGED  
RFMAX = 38.03 RMMAX =0.2238E-14  
RTSMAL=0.1000E-03 RSMAL=0.1000E-19  
RDT =0.6175E+05 RDR =0.1000E-19  
RATIOT=0.6524E-01 RATIO= 0.000  
MAX UN= 4.922 IEQ= 11 NODE 6 DOF 1 Y-DISPL.F

MIN UN=-.1245E-17 IEQ= 1 NODE 1 DOF 1 Y-DISPL.F  
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 2 RNORM = 0.000 RMNORM= 0.000  
RINORM=0.6175E+05 RIMNOR=0.1713E-27  
RENORM= 7.678 REMNOR=0.6000E-23 RATIO =0.1115E-01 TOLER =0.1000E-03 NOT CONVERGED  
RFMAX = 38.03 RMMAX =0.2238E-14  
RTSMAL=0.1000E-03 RMSMAL=0.1000E-19  
RDT =0.6175E+05 RDR =0.1000E-19  
RATIOT=0.1115E-01 RATIOOR= 0.000  
MAX UN= 2.045 IEQ= 3 NODE 2 DOF 1 Y-DISPL.F  
MIN UN=-.3922E-11 IEQ= 1 NODE 1 DOF 1 Y-DISPL.F  
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 3 RNORM = 0.000 RMNORM= 0.000  
RINORM=0.6175E+05 RIMNOR=0.1713E-27  
RENORM= 3.287 REMNOR=0.2675E-23 RATIO =0.7296E-02 TOLER =0.1000E-03 NOT CONVERGED  
RFMAX = 38.03 RMMAX =0.2238E-14  
RTSMAL=0.1000E-03 RMSMAL=0.1000E-19  
RDT =0.6175E+05 RDR =0.1000E-19  
RATIOT=0.7296E-02 RATIOOR= 0.000  
MAX UN= 1.559 IEQ= 13 NODE 7 DOF 1 Y-DISPL.F  
MIN UN=-.1720E-10 IEQ= 3 NODE 2 DOF 1 Y-DISPL.F  
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 4 RNORM = 0.000 RMNORM= 0.000  
RINORM=0.6175E+05 RIMNOR=0.1713E-27  
RENORM=0.1077 REMNOR=0.1577E-23 RATIO =0.1321E-02 TOLER =0.1000E-03 NOT CONVERGED  
RFMAX = 38.03 RMMAX =0.2238E-14  
RTSMAL=0.1000E-03 RMSMAL=0.1000E-19  
RDT =0.6175E+05 RDR =0.1000E-19  
RATIOT=0.1321E-02 RATIOOR= 0.000  
MAX UN=0.3279 IEQ= 19 NODE 10 DOF 1 Y-DISPL.F  
MIN UN=-.7068E-11 IEQ= 21 NODE 11 DOF 1 Y-DISPL.F  
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 5 RNORM = 0.000 RMNORM= 0.000  
RINORM=0.6175E+05 RIMNOR=0.1713E-27  
RENORM=0.6867E-21 REMNOR=0.1297E-23 RATIO =0.1055E-12 TOLER =0.1000E-03 CONVERGED !  
RFMAX = 38.03 RMMAX =0.2238E-14  
RTSMAL=0.1000E-03 RMSMAL=0.1000E-19  
RDT =0.6175E+05 RDR =0.1000E-19  
RATIOT=0.1055E-12 RATIOOR= 0.000  
MAX UN=0.1578E-10 IEQ= 7 NODE 4 DOF 1 Y-DISPL.F  
MIN UN=-.1242E-10 IEQ= 9 NODE 5 DOF 1 Y-DISPL.F  
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
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New Project
SOLUTION REACHED USING      5 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   2   ( AT TIME  2.000   )

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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	2.1326186E-04	-7.1336694E-05	
2	1.9899452E-04	-7.1336694E-05	
3	1.8472958E-04	-7.1300691E-05	
4	1.7048394E-04	-7.1119321E-05	
5	1.5630386E-04	-7.0607938E-05	
6	1.4228020E-04	-6.9504941E-05	
7	1.2856397E-04	-6.7470659E-05	
8	1.1536717E-04	-6.4307975E-05	
9	1.0290900E-04	-6.0121979E-05	
10	9.1370576E-05	-5.5152966E-05	
11	8.0882048E-05	-4.9670391E-05	
12	7.1518077E-05	-4.3952946E-05	
13	6.3300368E-05	-3.8243012E-05	
14	5.6208077E-05	-3.2725009E-05	
15	5.0188611E-05	-2.7533311E-05	
16	4.5166865E-05	-2.2759931E-05	
17	4.1052939E-05	-1.8461755E-05	
18	3.7748560E-05	-1.4667309E-05	
19	3.5152029E-05	-1.1382660E-05	
20	3.3162281E-05	-8.5962362E-06	
21	3.1682052E-05	-6.2821517E-06	
22	3.0620379E-05	-4.4037970E-06	
23	2.9894368E-05	-2.9179129E-06	
24	2.9430163E-05	-1.777926E-06	
25	2.9163372E-05	-9.3586715E-07	
26	2.9039034E-05	-3.4568042E-07	
27	2.9011242E-05	3.6649759E-08	
28	2.9042523E-05	2.5141457E-07	
29	2.9103039E-05	3.3463863E-07	
30	2.9169702E-05	3.1771475E-07	
31	2.9225222E-05	2.2725565E-07	
32	2.9257179E-05	8.5423757E-08	
33	2.9257188E-05	-8.9458889E-08	
34	2.9220185E-05	-2.8249693E-07	
35	2.9143765E-05	-4.8190451E-07	
36	2.9027601E-05	-6.7865175E-07	
37	2.8872925E-05	-8.6609913E-07	
38	2.8682089E-05	-1.0396412E-06	
39	2.8458190E-05	-1.1963575E-06	
40	2.8204771E-05	-1.3346986E-06	
41	2.7925567E-05	-1.4541969E-06	
42	2.7624324E-05	-1.5552124E-06	
43	2.7304650E-05	-1.6387129E-06	
44	2.6969914E-05	-1.7060868E-06	
45	2.6623182E-05	-1.7589884E-06	
46	2.6267165E-05	-1.7992134E-06	
47	2.5904219E-05	-1.8285985E-06	
48	2.5536329E-05	-1.8489464E-06	
49	2.5165129E-05	-1.8619696E-06	
50	2.4791925E-05	-1.8692507E-06	
51	2.4417718E-05	-1.8722167E-06	
52	2.4043233E-05	-1.8721232E-06	
53	2.3669010E-05	-1.8700472E-06	
54	2.3295306E-05	-1.8668850E-06	
55	2.2922281E-05	-1.8633542E-06	
56	2.2549952E-05	-1.8599983E-06	
57	2.2178245E-05	-1.8571908E-06	
58	2.1807025E-05	-1.8551405E-06	
59	2.1436135E-05	-1.8538950E-06	
60	2.1065421E-05	-1.8533433E-06	
61	2.0694751E-05	-1.8532172E-06	

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION *Build date:Jul 11, 2017*          |
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NewProject.BaseDesignSection_28.Nominal_63
Exe Time :24 May 2018      18:23:40

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New Project

STRESS RESULTS FOR GROUP NO. 1

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0_L
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 61
CURRENT TIME IS 2.0000

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HARDENING 2D SOIL ELEMENT

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

EL * FACTOR	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
1 D	0.000	-2.1326E-04	0.000	0.000	0.000	0.000	ACTIVE	0.000	0.000	0.000	
1.000	1.000	0.000	0.000	0.000	Ug5_2_8_L_0						
2 D	0.4922	-1.9899E-04	2.201	0.5481	2.201	4.391	ACTIVE	0.000	-0.2000	1.913	
1.000	1.000	2.461	0.000	0.000	Ug5_2_8_L_0						
3 D	1.003	-1.8473E-04	4.775	1.189	4.775	7.857	ACTIVE	0.000	-0.4000	3.826	
1.000	1.000	5.015	0.000	0.000	Ug5_2_8_L_0						
4 D	1.521	-1.7048E-04	7.503	1.868	7.503	10.57	ACTIVE	0.000	-0.6000	5.739	
1.000	1.000	7.607	0.000	0.000	Ug5_2_8_L_0						
5 D	2.055	-1.5630E-04	10.54	2.623	10.54	12.90	ACTIVE	0.000	-0.8000	7.652	
1.000	1.000	10.28	0.000	0.000	Ug5_2_8_L_0						
6 D	2.589	-1.4228E-04	13.57	3.379	13.57	15.05	ACTIVE	0.000	-1.000	9.565	
1.000	1.000	12.94	0.000	0.000	Ug5_2_8_L_0						
7 D	3.102	-1.2856E-04	16.18	4.029	16.18	17.09	ACTIVE	0.000	-1.200	11.48	
1.000	1.000	15.51	0.000	0.000	Ug5_2_8_L_0						
8 D	3.610	-1.1537E-04	18.71	4.659	18.71	19.05	ACTIVE	0.000	-1.400	13.39	
1.000	1.000	18.05	0.000	0.000	Ug5_2_8_L_0						
9 D	4.123	-1.0291E-04	21.33	5.311	21.33	20.96	ACTIVE	0.000	-1.600	15.30	
1.000	1.000	20.62	0.000	0.000	Ug5_2_8_L_0						
10 D	4.627	-9.1371E-05	23.77	5.918	23.77	22.80	ACTIVE	0.000	-1.800	17.22	
1.000	1.000	23.14	0.000	0.000	Ug5_2_8_L_0						
11 D	5.397	-8.0882E-05	26.31	7.854	26.31	24.58	UL-RL	2.0684E+05	-2.000	19.13	
1.000	1.000	26.98	0.000	0.000	Ug5_2_8_L_0						
12 D	6.513	-7.1518E-05	28.73	11.52	28.73	26.31	UL-RL	2.0684E+05	-2.200	21.04	
1.000	1.000	32.56	0.000	0.000	Ug5_2_8_L_0						
13 D	7.569	-6.3300E-05	31.25	14.89	31.25	27.98	UL-RL	2.0684E+05	-2.400	22.96	
1.000	1.000	37.85	0.000	0.000	Ug5_2_8_L_0						
14 D	8.569	-5.6208E-05	33.67	17.97	33.67	29.60	UL-RL	2.0684E+05	-2.600	24.87	
1.000	1.000	42.84	0.000	0.000	Ug5_2_8_L_0						
15 D	9.513	-5.0189E-05	36.19	20.78	36.19	31.16	UL-RL	2.0684E+05	-2.800	26.78	
1.000	1.000	47.57	0.000	0.000	Ug5_2_8_L_0						
16 D	10.41	-4.5167E-05	38.64	23.33	38.64	32.68	UL-RL	2.0684E+05	-3.000	28.70	
1.000	1.000	52.03	0.000	0.000	Ug5_2_8_L_0						
17 D	11.25	-4.1053E-05	41.16	25.65	41.16	34.14	UL-RL	2.0684E+05	-3.200	30.61	
1.000	1.000	56.25	0.000	0.000	Ug5_2_8_L_0						
18 D	12.05	-3.7749E-05	43.63	27.74	43.63	35.55	UL-RL	2.0684E+05	-3.400	32.52	
1.000	1.000	60.26	0.000	0.000	Ug5_2_8_L_0						
19 D	12.82	-3.5152E-05	46.10	29.65	46.10	36.92	UL-RL	2.0684E+05	-3.600	34.43	
1.000	1.000	64.08	0.000	0.000	Ug5_2_8_L_0						
20 D	13.55	-3.3162E-05	48.64	31.39	48.64	38.25	UL-RL	2.0684E+05	-3.800	36.35	
1.000	1.000	67.73	0.000	0.000	Ug5_2_8_L_0						
21 D	14.25	-3.1682E-05	51.12	32.98	51.12	39.53	UL-RL	2.0684E+05	-4.000	38.26	
1.000	1.000	71.24	0.000	0.000	Ug5_2_8_L_0						
22 D	14.92	-3.0620E-05	53.66	34.45	53.66	40.78	UL-RL	2.0684E+05	-4.200	40.17	
1.000	1.000	74.62	0.000	0.000	Ug5_2_8_L_0						
23 D	15.58	-2.9894E-05	56.15	35.81	56.15	42.00	UL-RL	2.0684E+05	-4.400	42.09	
1.000	1.000	77.90	0.000	0.000	Ug5_2_8_L_0						
24 D	16.22	-2.9430E-05	58.69	37.09	58.69	43.18	UL-RL	2.0684E+05	-4.600	44.00	
1.000	1.000	81.09	0.000	0.000	Ug5_2_8_L_0						
25 D	16.84	-2.9163E-05	61.18	38.30	61.18	44.33	UL-RL	2.0684E+05	-4.800	45.91	
1.000	1.000	84.22	0.000	0.000	Ug5_2_8_L_0						
26 D	17.46	-2.9039E-05	63.67	39.46	63.67	45.46	UL-RL	2.0684E+05	-5.000	47.83	
1.000	1.000	87.28	0.000	0.000	Ug5_2_8_L_0						
27 D	18.06	-2.9011E-05	65.98	40.56	65.98	46.56	UL-RL	2.0684E+05	-5.200	49.74	
1.000	1.000	90.30	0.000	0.000	Ug5_2_8_L_0						
28 D	18.66	-2.9043E-05	68.30	41.64	68.30	47.64	UL-RL	2.0684E+05	-5.400	51.65	
1.000	1.000	93.29	0.000	0.000	Ug5_2_8_L_0						
29 D	19.25	-2.9103E-05	70.62	42.68	70.62	48.70	UL-RL	2.0684E+05	-5.600	53.57	
1.000	1.000	96.25	0.000	0.000	Ug5_2_8_L_0						
30 D	19.84	-2.9170E-05	72.95	43.71	72.95	49.74	UL-RL	2.0684E+05	-5.800	55.48	
1.000	1.000	99.19	0.000	0.000	Ug5_2_8_L_0						
31 D	20.42	-2.9225E-05	75.27	44.72	75.27	50.76	UL-RL	2.0684E+05	-6.000	57.39	
1.000	1.000	102.1	0.000	0.000	Ug5_2_8_L_0						
32 D	21.00	-2.9257E-05	77.60	45.72	77.60	51.77	UL-RL	2.0684E+05	-6.200	59.30	
1.000	1.000	105.0	0.000	0.000	Ug5_2_8_L_0						
33 D	21.59	-2.9257E-05	79.93	46.71	79.93	52.76	UL-RL	2.0684E+05	-6.400	61.22	

1.000	1.000	107.9	0.000	0.000	Ug5_2_8_L_0					
34 D	22.17	-2.9220E-05	82.50	47.70	82.50	53.74	UL-RL	2.0684E+05	-6.600	63.13
1.000	1.000	110.8	0.000	0.000	Ug5_2_8_L_0					
35 D	22.74	-2.9144E-05	84.97	48.68	84.97	54.71	UL-RL	2.0684E+05	-6.800	65.04
1.000	1.000	113.7	0.000	0.000	Ug5_2_8_L_0					
36 D	23.32	-2.9028E-05	87.99	49.66	87.99	55.67	UL-RL	2.0684E+05	-7.000	66.96
1.000	1.000	116.6	0.000	0.000	Ug5_2_8_L_0					
37 D	23.90	-2.8873E-05	90.43	50.64	90.43	56.61	UL-RL	2.0684E+05	-7.200	68.87
1.000	1.000	119.5	0.000	0.000	Ug5_2_8_L_0					
38 D	24.48	-2.8682E-05	93.39	51.62	93.39	57.55	UL-RL	2.0684E+05	-7.400	70.78
1.000	1.000	122.4	0.000	0.000	Ug5_2_8_L_0					
39 D	25.06	-2.8458E-05	95.79	52.60	95.79	58.49	UL-RL	2.0684E+05	-7.600	72.70
1.000	1.000	125.3	0.000	0.000	Ug5_2_8_L_0					
40 D	25.64	-2.8205E-05	98.69	53.58	98.69	59.41	UL-RL	2.0684E+05	-7.800	74.61
1.000	1.000	128.2	0.000	0.000	Ug5_2_8_L_0					
41 D	26.22	-2.7926E-05	101.6	54.55	101.6	60.33	UL-RL	2.0684E+05	-8.000	76.52
1.000	1.000	131.1	0.000	0.000	Ug5_2_8_L_0					
42 D	26.79	-2.7624E-05	103.9	55.53	103.9	61.24	UL-RL	2.0684E+05	-8.200	78.43
1.000	1.000	134.0	0.000	0.000	Ug5_2_8_L_0					
43 D	27.37	-2.7305E-05	106.7	56.51	106.7	62.15	UL-RL	2.0684E+05	-8.400	80.35
1.000	1.000	136.9	0.000	0.000	Ug5_2_8_L_0					
44 D	27.95	-2.6970E-05	109.1	57.48	109.1	63.06	UL-RL	2.0684E+05	-8.600	82.26
1.000	1.000	139.7	0.000	0.000	Ug5_2_8_L_0					
45 D	28.53	-2.6623E-05	111.9	58.45	111.9	63.96	UL-RL	2.0684E+05	-8.800	84.17
1.000	1.000	142.6	0.000	0.000	Ug5_2_8_L_0					
46 D	29.10	-2.6267E-05	114.2	59.42	114.2	64.86	UL-RL	2.0684E+05	-9.000	86.09
1.000	1.000	145.5	0.000	0.000	Ug5_2_8_L_0					
47 D	29.68	-2.5904E-05	116.9	60.39	116.9	65.75	UL-RL	2.0684E+05	-9.200	88.00
1.000	1.000	148.4	0.000	0.000	Ug5_2_8_L_0					
48 D	30.25	-2.5536E-05	119.2	61.36	119.2	66.64	UL-RL	2.0684E+05	-9.400	89.91
1.000	1.000	151.3	0.000	0.000	Ug5_2_8_L_0					
49 D	30.83	-2.5165E-05	121.9	62.33	121.9	67.53	UL-RL	2.0684E+05	-9.600	91.83
1.000	1.000	154.2	0.000	0.000	Ug5_2_8_L_0					
50 D	31.41	-2.4792E-05	124.2	63.29	124.2	68.42	UL-RL	2.0684E+05	-9.800	93.74
1.000	1.000	157.0	0.000	0.000	Ug5_2_8_L_0					
51 D	31.98	-2.4418E-05	126.9	64.26	126.9	69.31	UL-RL	2.0684E+05	-10.00	95.65
1.000	1.000	159.9	0.000	0.000	Ug5_2_8_L_0					
52 D	32.56	-2.4043E-05	129.1	65.22	129.1	70.19	UL-RL	2.0684E+05	-10.20	97.57
1.000	1.000	162.8	0.000	0.000	Ug5_2_8_L_0					
53 D	33.13	-2.3669E-05	131.8	66.18	131.8	71.08	UL-RL	2.0684E+05	-10.40	99.48
1.000	1.000	165.7	0.000	0.000	Ug5_2_8_L_0					
54 D	33.71	-2.3295E-05	134.4	67.14	134.4	71.96	UL-RL	2.0684E+05	-10.60	101.4
1.000	1.000	168.5	0.000	0.000	Ug5_2_8_L_0					
55 D	34.28	-2.2922E-05	136.7	68.11	136.7	72.85	UL-RL	2.0684E+05	-10.80	103.3
1.000	1.000	171.4	0.000	0.000	Ug5_2_8_L_0					
56 D	34.86	-2.2550E-05	139.3	69.07	139.3	73.73	UL-RL	2.0684E+05	-11.00	105.2
1.000	1.000	174.3	0.000	0.000	Ug5_2_8_L_0					
57 D	35.43	-2.2178E-05	141.5	70.03	141.5	74.61	UL-RL	2.0684E+05	-11.20	107.1
1.000	1.000	177.2	0.000	0.000	Ug5_2_8_L_0					
58 D	36.01	-2.1807E-05	144.1	70.99	144.1	75.50	UL-RL	2.0684E+05	-11.40	109.0
1.000	1.000	180.0	0.000	0.000	Ug5_2_8_L_0					
59 D	36.58	-2.1436E-05	146.3	71.94	146.3	76.38	UL-RL	2.0684E+05	-11.60	111.0
1.000	1.000	182.9	0.000	0.000	Ug5_2_8_L_0					
60 D	37.15	-2.1065E-05	148.9	72.90	148.9	77.26	UL-RL	2.0684E+05	-11.80	112.9
1.000	1.000	185.8	0.000	0.000	Ug5_2_8_L_0					
61 D	18.86	-2.0695E-05	151.1	73.86	151.1	78.15	UL-RL	2.0684E+05	-12.00	114.8
1.000	1.000	188.6	0.000	0.000	Ug5_2_8_L_0					

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|                PARATIEPLUS(TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION *Build date:Jul 11, 2017*                |
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|                NewProject.BaseDesignSection_28.Nominal_63                                                                              |
|                Exe Time :24 May 2018  18:23:40                                                                                          |
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New Project

STRESS RESULTS FOR GROUP NO. 2

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ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 61  
CURRENT TIME IS 2.0000

HARDENING 2D SOIL ELEMENT

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

EL * FACTOR	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
1	0.000	--	--	--	--	--	REMOVED	--	0.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
2	0.000	--	--	--	--	--	REMOVED	--	-0.2000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
3	0.000	--	--	--	--	--	REMOVED	--	-0.4000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
4	0.000	--	--	--	--	--	REMOVED	--	-0.6000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
5	0.000	--	--	--	--	--	REMOVED	--	-0.8000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
6 D	0.000	1.4228E-04	0.000	0.000	10.00	14.83	PASSIVE	0.000	-1.000	0.000	
1.000	1.000	0.000	0.000	0.000	Ug5_2_8_L_0						
7 D	2.995	1.2856E-04	1.913	12.89	12.00	16.83	PASSIVE	0.000	-1.200	2.087	
1.000	1.000	14.98	0.000	0.000	Ug5_2_8_L_0						
8 D	5.153	1.1537E-04	3.826	21.59	14.00	21.59	V-C	3.4277E+04	-1.400	4.174	
1.000	1.000	25.76	0.000	0.000	Ug5_2_8_L_0						
9 D	5.865	1.0291E-04	5.739	23.07	16.00	23.07	V-C	3.4277E+04	-1.600	6.261	
1.000	1.000	29.33	0.000	0.000	Ug5_2_8_L_0						
10 D	6.569	9.1371E-05	7.652	24.50	18.00	24.50	V-C	3.4277E+04	-1.800	8.348	
1.000	1.000	32.84	0.000	0.000	Ug5_2_8_L_0						
11 D	7.266	8.0882E-05	9.565	25.89	20.00	25.89	V-C	3.4277E+04	-2.000	10.43	
1.000	1.000	36.33	0.000	0.000	Ug5_2_8_L_0						
12 D	7.958	7.1518E-05	11.48	27.27	22.00	27.27	V-C	3.4277E+04	-2.200	12.52	
1.000	1.000	39.79	0.000	0.000	Ug5_2_8_L_0						
13 D	8.646	6.3300E-05	13.39	28.62	24.00	28.62	V-C	3.4277E+04	-2.400	14.61	
1.000	1.000	43.23	0.000	0.000	Ug5_2_8_L_0						
14 D	9.330	5.6208E-05	15.30	29.95	26.00	29.95	V-C	3.4277E+04	-2.600	16.70	
1.000	1.000	46.65	0.000	0.000	Ug5_2_8_L_0						
15 D	10.01	5.0189E-05	17.22	31.27	28.00	31.27	V-C	3.4277E+04	-2.800	18.78	
1.000	1.000	50.05	0.000	0.000	Ug5_2_8_L_0						
16 D	10.69	4.5167E-05	19.13	32.56	30.00	32.56	V-C	3.4277E+04	-3.000	20.87	
1.000	1.000	53.43	0.000	0.000	Ug5_2_8_L_0						
17 D	11.36	4.1053E-05	21.04	33.84	32.00	33.84	V-C	3.4277E+04	-3.200	22.96	
1.000	1.000	56.80	0.000	0.000	Ug5_2_8_L_0						
18 D	12.03	3.7749E-05	22.96	35.10	34.00	35.10	V-C	3.4277E+04	-3.400	25.04	
1.000	1.000	60.14	0.000	0.000	Ug5_2_8_L_0						
19 D	12.68	3.5152E-05	24.87	36.29	36.00	36.35	UL-RL	1.0283E+05	-3.600	27.13	
1.000	1.000	63.42	0.000	0.000	Ug5_2_8_L_0						
20 D	13.33	3.3162E-05	26.78	37.41	38.00	37.60	UL-RL	1.0283E+05	-3.800	29.22	
1.000	1.000	66.63	0.000	0.000	Ug5_2_8_L_0						
21 D	13.97	3.1682E-05	28.70	38.54	40.00	38.82	UL-RL	1.0283E+05	-4.000	31.30	
1.000	1.000	69.85	0.000	0.000	Ug5_2_8_L_0						
22 D	14.61	3.0620E-05	30.61	39.67	42.00	40.01	UL-RL	1.0283E+05	-4.200	33.39	
1.000	1.000	73.06	0.000	0.000	Ug5_2_8_L_0						
23 D	15.25	2.9894E-05	32.52	40.79	44.00	41.16	UL-RL	1.0283E+05	-4.400	35.48	
1.000	1.000	76.27	0.000	0.000	Ug5_2_8_L_0						
24 D	15.89	2.9430E-05	34.43	41.91	46.00	42.28	UL-RL	1.0283E+05	-4.600	37.57	
1.000	1.000	79.47	0.000	0.000	Ug5_2_8_L_0						
25 D	16.53	2.9163E-05	36.35	43.01	48.00	43.37	UL-RL	1.0283E+05	-4.800	39.65	
1.000	1.000	82.66	0.000	0.000	Ug5_2_8_L_0						
26 D	17.17	2.9039E-05	38.26	44.10	50.00	44.44	UL-RL	1.0283E+05	-5.000	41.74	
1.000	1.000	85.84	0.000	0.000	Ug5_2_8_L_0						
27 D	17.80	2.9011E-05	40.17	45.17	52.00	45.48	UL-RL	1.0283E+05	-5.200	43.83	
1.000	1.000	88.99	0.000	0.000	Ug5_2_8_L_0						
28 D	18.43	2.9043E-05	42.09	46.22	54.00	46.50	UL-RL	1.0283E+05	-5.400	45.91	
1.000	1.000	92.13	0.000	0.000	Ug5_2_8_L_0						
29 D	19.05	2.9103E-05	44.00	47.25	56.00	47.50	UL-RL	1.0283E+05	-5.600	48.00	
1.000	1.000	95.25	0.000	0.000	Ug5_2_8_L_0						
30 D	19.67	2.9170E-05	45.91	48.27	58.00	48.48	UL-RL	1.0283E+05	-5.800	50.09	
1.000	1.000	98.36	0.000	0.000	Ug5_2_8_L_0						
31 D	20.28	2.9225E-05	47.83	49.25	60.00	49.46	UL-RL	1.0283E+05	-6.000	52.17	
1.000	1.000	101.4	0.000	0.000	Ug5_2_8_L_0						
32 D	20.89	2.9257E-05	49.74	50.20	62.00	50.42	UL-RL	1.0283E+05	-6.200	54.26	
1.000	1.000	104.5	0.000	0.000	Ug5_2_8_L_0						
33 D	21.49	2.9257E-05	51.65	51.13	64.00	51.37	UL-RL	1.0283E+05	-6.400	56.35	



1.000	1.000	107.5	0.000	0.000	Ug5_2_8_L_0					
34 D	22.09	2.9220E-05	53.57	52.04	66.00	52.31	UL-RL	1.0283E+05	-6.600	58.43
1.000	1.000	110.5	0.000	0.000	Ug5_2_8_L_0					
35 D	22.69	2.9144E-05	55.48	52.94	68.00	53.23	UL-RL	1.0283E+05	-6.800	60.52
1.000	1.000	113.5	0.000	0.000	Ug5_2_8_L_0					
36 D	23.29	2.9028E-05	57.39	53.82	70.00	54.14	UL-RL	1.0283E+05	-7.000	62.61
1.000	1.000	116.4	0.000	0.000	Ug5_2_8_L_0					
37 D	23.88	2.8873E-05	59.30	54.69	72.00	55.05	UL-RL	1.0283E+05	-7.200	64.70
1.000	1.000	119.4	0.000	0.000	Ug5_2_8_L_0					
38 D	24.47	2.8682E-05	61.22	55.55	74.00	55.95	UL-RL	1.0283E+05	-7.400	66.78
1.000	1.000	122.3	0.000	0.000	Ug5_2_8_L_0					
39 D	25.05	2.8458E-05	63.13	56.39	76.00	56.83	UL-RL	1.0283E+05	-7.600	68.87
1.000	1.000	125.3	0.000	0.000	Ug5_2_8_L_0					
40 D	25.64	2.8205E-05	65.04	57.23	78.00	57.72	UL-RL	1.0283E+05	-7.800	70.96
1.000	1.000	128.2	0.000	0.000	Ug5_2_8_L_0					
41 D	26.22	2.7926E-05	66.96	58.06	80.00	58.59	UL-RL	1.0283E+05	-8.000	73.04
1.000	1.000	131.1	0.000	0.000	Ug5_2_8_L_0					
42 D	26.80	2.7624E-05	68.87	58.88	82.00	59.46	UL-RL	1.0283E+05	-8.200	75.13
1.000	1.000	134.0	0.000	0.000	Ug5_2_8_L_0					
43 D	27.38	2.7305E-05	70.78	59.69	84.00	60.33	UL-RL	1.0283E+05	-8.400	77.22
1.000	1.000	136.9	0.000	0.000	Ug5_2_8_L_0					
44 D	27.96	2.6970E-05	72.70	60.50	86.00	61.19	UL-RL	1.0283E+05	-8.600	79.30
1.000	1.000	139.8	0.000	0.000	Ug5_2_8_L_0					
45 D	28.54	2.6623E-05	74.61	61.30	88.00	62.05	UL-RL	1.0283E+05	-8.800	81.39
1.000	1.000	142.7	0.000	0.000	Ug5_2_8_L_0					
46 D	29.11	2.6267E-05	76.52	62.09	90.00	62.90	UL-RL	1.0283E+05	-9.000	83.48
1.000	1.000	145.6	0.000	0.000	Ug5_2_8_L_0					
47 D	29.69	2.5904E-05	78.43	62.89	92.00	63.75	UL-RL	1.0283E+05	-9.200	85.57
1.000	1.000	148.5	0.000	0.000	Ug5_2_8_L_0					
48 D	30.27	2.5536E-05	80.35	63.68	94.00	64.60	UL-RL	1.0283E+05	-9.400	87.65
1.000	1.000	151.3	0.000	0.000	Ug5_2_8_L_0					
49 D	30.84	2.5165E-05	82.26	64.47	96.00	65.45	UL-RL	1.0283E+05	-9.600	89.74
1.000	1.000	154.2	0.000	0.000	Ug5_2_8_L_0					
50 D	31.42	2.4792E-05	84.17	65.25	98.00	66.29	UL-RL	1.0283E+05	-9.800	91.83
1.000	1.000	157.1	0.000	0.000	Ug5_2_8_L_0					
51 D	31.99	2.4418E-05	86.09	66.04	100.00	67.13	UL-RL	1.0283E+05	-10.000	93.91
1.000	1.000	160.0	0.000	0.000	Ug5_2_8_L_0					
52 D	32.56	2.4043E-05	88.00	66.82	102.0	67.98	UL-RL	1.0283E+05	-10.200	96.00
1.000	1.000	162.8	0.000	0.000	Ug5_2_8_L_0					
53 D	33.14	2.3669E-05	89.91	67.60	104.0	68.82	UL-RL	1.0283E+05	-10.400	98.09
1.000	1.000	165.7	0.000	0.000	Ug5_2_8_L_0					
54 D	33.71	2.3295E-05	91.83	68.38	106.0	69.66	UL-RL	1.0283E+05	-10.600	100.2
1.000	1.000	168.6	0.000	0.000	Ug5_2_8_L_0					
55 D	34.29	2.2922E-05	93.74	69.16	108.0	70.50	UL-RL	1.0283E+05	-10.800	102.3
1.000	1.000	171.4	0.000	0.000	Ug5_2_8_L_0					
56 D	34.86	2.2550E-05	95.65	69.95	110.0	71.34	UL-RL	1.0283E+05	-11.000	104.3
1.000	1.000	174.3	0.000	0.000	Ug5_2_8_L_0					
57 D	35.43	2.2178E-05	97.57	70.73	112.0	72.18	UL-RL	1.0283E+05	-11.200	106.4
1.000	1.000	177.2	0.000	0.000	Ug5_2_8_L_0					
58 D	36.01	2.1807E-05	99.48	71.51	114.0	73.02	UL-RL	1.0283E+05	-11.400	108.5
1.000	1.000	180.0	0.000	0.000	Ug5_2_8_L_0					
59 D	36.58	2.1436E-05	101.4	72.29	116.0	73.86	UL-RL	1.0283E+05	-11.600	110.6
1.000	1.000	182.9	0.000	0.000	Ug5_2_8_L_0					
60 D	37.15	2.1065E-05	103.3	73.07	118.0	74.70	UL-RL	1.0283E+05	-11.800	112.7
1.000	1.000	185.8	0.000	0.000	Ug5_2_8_L_0					
61 D	18.86	2.0695E-05	105.2	73.85	120.0	75.54	UL-RL	1.0283E+05	-12.000	114.8
1.000	1.000	188.6	0.000	0.000	Ug5_2_8_L_0					

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|                PARATIEPLUS(TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION *Build date:Jul 11, 2017* |
|                                                                                               |
|                                                                                               |
|                NewProject.BaseDesignSection_28.Nominal_63 |
|                Exe Time :24 May 2018  18:23:40 |
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New Project

STRESS RESULTS FOR GROUP NO. 3

WallElement\_33 :  
ELEMENT TYPE 2 NO.OF ELEMENTS. IN THIS GROUP 60  
CURRENT TIME IS 2.0000

WALL2D ELEMENT

EL	TA	TB	MA	MB
1	2.76401E-12	-2.76401E-12	2.74447E-13	1.22569E-13
2	0.49223	-0.49223	-1.17240E-13	9.84459E-02
3	1.4952	-1.4952	-9.84459E-02	0.39749
4	3.0167	-3.0167	-0.39749	1.0008
5	5.0718	-5.0718	-1.0008	2.0152
6	7.6606	-7.6606	-2.0152	3.5473
7	7.7668	-7.7668	-3.5473	5.1007
8	6.2238	-6.2238	-5.1007	6.3454
9	4.4815	-4.4815	-6.3454	7.2417
10	2.5399	-2.5399	-7.2417	7.7497
11	0.67124	-0.67124	-7.7497	7.8839
12	-0.77393	0.77393	-7.8839	7.7292
13	-1.8501	1.8501	-7.7292	7.3591
14	-2.6111	2.6111	-7.3591	6.8369
15	-3.1081	3.1081	-6.8369	6.2153
16	-3.3891	3.3891	-6.2153	5.5375
17	-3.4975	3.4975	-5.5375	4.8380
18	-3.4723	3.4723	-4.8380	4.1435
19	-3.3393	3.3393	-4.1435	3.4756
20	-3.1183	3.1183	-3.4756	2.8520
21	-2.8391	2.8391	-2.8520	2.2841
22	-2.5267	2.5267	-2.2841	1.7788
23	-2.2006	2.2006	-1.7788	1.3387
24	-1.8763	1.8763	-1.3387	0.96344
25	-1.5654	1.5654	-0.96344	0.65035
26	-1.2763	1.2763	-0.65035	0.39509
27	-1.0146	1.0146	-0.39509	0.19216
28	-0.78378	0.78378	-0.19216	3.54054E-02
29	-0.58543	0.58543	-3.54054E-02	-8.16816E-02
30	-0.41993	0.41993	8.16816E-02	-0.16567
31	-0.28244	0.28244	0.16567	-0.22216
32	-0.16941	0.16941	0.22216	-0.25604
33	-7.88050E-02	7.88050E-02	0.25604	-0.27180
34	-8.27863E-03	8.27863E-03	0.27180	-0.27346
35	4.46505E-02	-4.46505E-02	0.27346	-0.26453
36	8.24835E-02	-8.24835E-02	0.26453	-0.24803
37	0.10764	-0.10764	0.24803	-0.22650
38	0.12240	-0.12240	0.22650	-0.20202
39	0.12883	-0.12883	0.20202	-0.17626
40	0.12879	-0.12879	0.17626	-0.15050
41	0.12390	-0.12390	0.15050	-0.12572
42	0.11556	-0.11556	0.12572	-0.10260
43	0.10492	-0.10492	0.10260	-8.16206E-02
44	9.29394E-02	-9.29394E-02	8.16206E-02	-6.30328E-02
45	8.03768E-02	-8.03768E-02	6.30328E-02	-4.69575E-02
46	6.78253E-02	-6.78253E-02	4.69575E-02	-3.33924E-02
47	5.57303E-02	-5.57303E-02	3.33924E-02	-2.22464E-02
48	4.44127E-02	-4.44127E-02	2.22464E-02	-1.33638E-02
49	3.40916E-02	-3.40916E-02	1.33638E-02	-6.54552E-03
50	2.49041E-02	-2.49041E-02	6.54552E-03	-1.56470E-03
51	1.69246E-02	-1.69246E-02	1.56470E-03	1.82031E-03
52	1.01811E-02	-1.01811E-02	1.82031E-03	3.85643E-03
53	4.66988E-03	-4.66988E-03	3.85643E-03	4.79041E-03
54	3.67801E-04	-3.67801E-04	4.79041E-03	4.86397E-03
55	-2.75770E-03	2.75770E-03	-4.86397E-03	4.31243E-03
56	-4.74074E-03	4.74074E-03	-4.31243E-03	3.36428E-03
57	-5.61133E-03	5.61133E-03	-3.36428E-03	2.24201E-03
58	-5.39167E-03	5.39167E-03	-2.24201E-03	1.16368E-03
59	-4.09456E-03	4.09456E-03	-1.16368E-03	3.44768E-04
60	-1.72376E-03	1.72376E-03	-3.44768E-04	7.21177E-14

ITER 0 RNORM = 0.000 RMNORM= 0.000  
RINORM=0.5489E+05 RIMNOR= 1124.  
RENORM= 384.0 REMNOR=0.1297E-23 RATIO =0.8364E-01 TOLER =0.1000E-03 NOT CONVERGED  
RFMAX = 36.60 RMMAX = 7.884  
RTSMAL=0.1000E-03 RMSMAL=0.1000E-04  
RDT =0.5489E+05 RDR = 1124.  
RATIOT=0.8364E-01 RATIO= 0.000  
MAX UN= 7.171 IEQ= 21 NODE 11 DOF 1 Y-DISPL.F

MIN UN=-.4743E-01 IEQ= 11 NODE 6 DOF 1 Y-DISPL.F  
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 2 RNORM = 0.000 RMNORM= 0.000  
RINORM=0.5489E+05 RIMNOR= 1124.  
RENORM= 53.47 REMNOR=0.3003E-22 RATIO =0.3121E-01 TOLER =0.1000E-03 NOT CONVERGED  
RFMAX = 36.60 RMMAX = 7.884  
RTSMAL=0.1000E-03 RMSMAL=0.1000E-04  
RDT =0.5489E+05 RDR = 1124.  
RATIOT=0.3121E-01 RATIOOR= 0.000  
MAX UN= 2.490 IEQ= 19 NODE 10 DOF 1 Y-DISPL.F  
MIN UN=-.9345E-11 IEQ= 69 NODE 35 DOF 1 Y-DISPL.F  
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 3 RNORM = 0.000 RMNORM= 0.000  
RINORM=0.5489E+05 RIMNOR= 1124.  
RENORM= 136.4 REMNOR=0.5767E-21 RATIO =0.4985E-01 TOLER =0.1000E-03 NOT CONVERGED  
RFMAX = 36.60 RMMAX = 7.884  
RTSMAL=0.1000E-03 RMSMAL=0.1000E-04  
RDT =0.5489E+05 RDR = 1124.  
RATIOT=0.4985E-01 RATIOOR= 0.000  
MAX UN= 8.191 IEQ= 31 NODE 16 DOF 1 Y-DISPL.F  
MIN UN=-.2299E-09 IEQ= 15 NODE 8 DOF 1 Y-DISPL.F  
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 4 RNORM = 0.000 RMNORM= 0.000  
RINORM=0.5489E+05 RIMNOR= 1124.  
RENORM= 16.98 REMNOR=0.3600E-21 RATIO =0.1759E-01 TOLER =0.1000E-03 NOT CONVERGED  
RFMAX = 36.60 RMMAX = 7.884  
RTSMAL=0.1000E-03 RMSMAL=0.1000E-04  
RDT =0.5489E+05 RDR = 1124.  
RATIOT=0.1759E-01 RATIOOR= 0.000  
MAX UN= 3.554 IEQ= 43 NODE 22 DOF 1 Y-DISPL.F  
MIN UN=-.7361E-10 IEQ= 25 NODE 13 DOF 1 Y-DISPL.F  
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 5 RNORM = 0.000 RMNORM= 0.000  
RINORM=0.5489E+05 RIMNOR= 1124.  
RENORM=0.4048E-01 REMNOR=0.2780E-21 RATIO =0.8587E-03 TOLER =0.1000E-03 NOT CONVERGED  
RFMAX = 36.60 RMMAX = 7.884  
RTSMAL=0.1000E-03 RMSMAL=0.1000E-04  
RDT =0.5489E+05 RDR = 1124.  
RATIOT=0.8587E-03 RATIOOR= 0.000  
MAX UN=0.1887 IEQ= 49 NODE 25 DOF 1 Y-DISPL.F  
MIN UN=-.1253E-09 IEQ= 25 NODE 13 DOF 1 Y-DISPL.F  
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 6 RNORM = 0.000 RMNORM= 0.000  
RINORM=0.5489E+05 RIMNOR= 1124.  
RENORM=0.7182E-19 REMNOR=0.7695E-21 RATIO =0.1144E-11 TOLER =0.1000E-03 CONVERGED !  
RFMAX = 36.60 RMMAX = 7.884  
RTSMAL=0.1000E-03 RMSMAL=0.1000E-04  
RDT =0.5489E+05 RDR = 1124.  
RATIOT=0.1144E-11 RATIOOR= 0.000  
MAX UN=0.1118E-09 IEQ= 1 NODE 1 DOF 1 Y-DISPL.F  
MIN UN=-.1292E-09 IEQ= 15 NODE 8 DOF 1 Y-DISPL.F  
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
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New Project
SOLUTION REACHED USING      6 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   3   ( AT TIME  3.000   )

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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	2.9933021E-03	-7.1101536E-04	
2	2.8510990E-03	-7.1101536E-04	
3	2.7088983E-03	-7.1098040E-04	
4	2.5667163E-03	-7.1080424E-04	
5	2.4245980E-03	-7.1030745E-04	
6	2.2826316E-03	-7.0923572E-04	
7	2.1409640E-03	-7.0725875E-04	
8	1.9998155E-03	-7.0397181E-04	
9	1.8594945E-03	-6.9889754E-04	
10	1.7204123E-03	-6.9148595E-04	
11	1.5830974E-03	-6.8111475E-04	
12	1.4482100E-03	-6.6708963E-04	
13	1.3165421E-03	-6.488546E-04	
14	1.1889620E-03	-6.2620748E-04	
15	1.0663437E-03	-5.9929130E-04	
16	9.4949700E-04	-5.6860290E-04	
17	8.3910812E-04	-5.3482258E-04	
18	7.3572865E-04	-4.9862357E-04	
19	6.3977725E-04	-4.6064609E-04	
20	5.5154804E-04	-4.2150124E-04	
21	4.7121597E-04	-3.8177416E-04	
22	3.9884014E-04	-3.4202681E-04	
23	3.3437035E-04	-3.0280289E-04	
24	2.7764886E-04	-2.6463081E-04	
25	2.2841343E-04	-2.2802769E-04	
26	1.8629921E-04	-1.9350312E-04	
27	1.5084461E-04	-1.6149460E-04	
28	1.2151406E-04	-1.3229850E-04	
29	9.7726549E-05	-1.0608240E-04	
30	7.8878243E-05	-8.2909188E-05	
31	6.4361676E-05	-6.2753936E-05	
32	5.3582316E-05	-4.5514726E-05	
33	4.5972335E-05	-3.1028136E-05	
34	4.1001282E-05	-1.9088239E-05	
35	3.8182805E-05	-9.4618579E-06	
36	3.7078803E-05	-1.9015145E-06	
37	3.7301222E-05	3.8442141E-06	
38	3.8512006E-05	8.0227057E-06	
39	4.0421624E-05	1.0870990E-05	
40	4.2786546E-05	1.2611435E-05	
41	4.5405987E-05	1.3448711E-05	
42	4.8118164E-05	1.3567983E-05	
43	5.0796301E-05	1.3134068E-05	
44	5.3344539E-05	1.2291366E-05	
45	5.5693884E-05	1.1164388E-05	
46	5.7798367E-05	9.8586894E-06	
47	5.9631304E-05	8.4621574E-06	
48	6.1181951E-05	7.0464385E-06	
49	6.2452397E-05	5.6684785E-06	
50	6.3454775E-05	4.3720837E-06	
51	6.4208806E-05	3.1894039E-06	
52	6.4739592E-05	2.1423653E-06	
53	6.5075668E-05	1.2440778E-06	
54	6.5247463E-05	4.9965661E-07	
55	6.5285687E-05	-9.2418268E-08	
56	6.5220148E-05	-5.3970375E-07	
57	6.5078599E-05	-8.5509601E-07	
58	6.4885720E-05	-1.0563384E-06	
59	6.4662190E-05	-1.1656719E-06	
60	6.4423811E-05	-1.2096085E-06	
61	6.4180651E-05	-1.2188037E-06	

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION *Build date:Jul 11, 2017*          |
|                                                                                                                                            |
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|                                                                                                                                            |
|          NewProject.BaseDesignSection_28.Nominal_63          |
|          Exe Time :24 May 2018          18:23:40          |
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New Project

STRESS RESULTS FOR GROUP NO. 1

0\_L  
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 61  
CURRENT TIME IS 3.0000

HARDENING 2D SOIL ELEMENT

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

EL * FACTOR	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
1 D	0.000	-2.9933E-03	0.000	0.000	0.000	0.000	ACTIVE	0.000	0.000	0.000	
1.000	1.000	0.000	0.000	0.000	Ug5_2_8_L_0						
2 D	0.4780	-2.8511E-03	2.296	0.5717	2.296	4.391	ACTIVE	0.000	-0.2000	1.818	
1.000	1.000	2.390	0.000	0.000	Ug5_2_8_L_0						
3 D	0.9745	-2.7089E-03	4.964	1.236	4.964	7.857	ACTIVE	0.000	-0.4000	3.636	
1.000	1.000	4.872	0.000	0.000	Ug5_2_8_L_0						
4 D	1.479	-2.5667E-03	7.787	1.939	7.787	10.57	ACTIVE	0.000	-0.6000	5.455	
1.000	1.000	7.394	0.000	0.000	Ug5_2_8_L_0						
5 D	1.998	-2.4246E-03	10.92	2.718	10.92	12.90	ACTIVE	0.000	-0.8000	7.273	
1.000	1.000	9.991	0.000	0.000	Ug5_2_8_L_0						
6 D	2.518	-2.2826E-03	14.04	3.497	14.04	15.05	ACTIVE	0.000	-1.000	9.091	
1.000	1.000	12.59	0.000	0.000	Ug5_2_8_L_0						
7 D	3.016	-2.1410E-03	16.75	4.171	16.75	17.09	ACTIVE	0.000	-1.200	10.91	
1.000	1.000	15.08	0.000	0.000	Ug5_2_8_L_0						
8 D	3.510	-1.9998E-03	19.37	4.824	19.37	19.05	ACTIVE	0.000	-1.400	12.73	
1.000	1.000	17.55	0.000	0.000	Ug5_2_8_L_0						
9 D	4.009	-1.8595E-03	22.09	5.500	22.09	20.96	ACTIVE	0.000	-1.600	14.55	
1.000	1.000	20.05	0.000	0.000	Ug5_2_8_L_0						
10 D	4.499	-1.7204E-03	24.62	6.130	24.62	22.80	ACTIVE	0.000	-1.800	16.36	
1.000	1.000	22.49	0.000	0.000	Ug5_2_8_L_0						
11 D	4.994	-1.5831E-03	27.26	6.787	27.26	24.58	ACTIVE	0.000	-2.000	18.18	
1.000	1.000	24.97	0.000	0.000	Ug5_2_8_L_0						
12 D	5.483	-1.4482E-03	29.77	7.413	29.77	26.31	ACTIVE	0.000	-2.200	20.00	
1.000	1.000	27.41	0.000	0.000	Ug5_2_8_L_0						
13 D	5.976	-1.3165E-03	32.38	8.064	32.38	27.98	ACTIVE	0.000	-2.400	21.82	
1.000	1.000	29.88	0.000	0.000	Ug5_2_8_L_0						
14 D	6.466	-1.1890E-03	34.91	8.692	34.91	29.60	ACTIVE	0.000	-2.600	23.64	
1.000	1.000	32.33	0.000	0.000	Ug5_2_8_L_0						
15 D	6.959	-1.0663E-03	37.52	9.343	37.52	31.16	ACTIVE	0.000	-2.800	25.45	
1.000	1.000	34.80	0.000	0.000	Ug5_2_8_L_0						
16 D	7.450	-9.4950E-04	40.06	9.975	40.06	32.68	ACTIVE	0.000	-3.000	27.27	
1.000	1.000	37.25	0.000	0.000	Ug5_2_8_L_0						
17 D	7.944	-8.3911E-04	42.68	10.63	42.68	34.14	ACTIVE	0.000	-3.200	29.09	
1.000	1.000	39.72	0.000	0.000	Ug5_2_8_L_0						
18 D	8.435	-7.3573E-04	45.24	11.26	45.24	35.55	ACTIVE	0.000	-3.400	30.91	
1.000	1.000	42.17	0.000	0.000	Ug5_2_8_L_0						
19 D	8.926	-6.3978E-04	47.81	11.90	47.81	36.92	ACTIVE	0.000	-3.600	32.73	
1.000	1.000	44.63	0.000	0.000	Ug5_2_8_L_0						
20 D	9.421	-5.5155E-04	50.44	12.56	50.44	38.25	ACTIVE	0.000	-3.800	34.55	
1.000	1.000	47.11	0.000	0.000	Ug5_2_8_L_0						
21 D	9.913	-4.7122E-04	53.02	13.20	53.02	39.53	ACTIVE	0.000	-4.000	36.36	
1.000	1.000	49.57	0.000	0.000	Ug5_2_8_L_0						
22 D	10.41	-3.9884E-04	55.65	13.86	55.65	40.78	ACTIVE	0.000	-4.200	38.18	
1.000	1.000	52.04	0.000	0.000	Ug5_2_8_L_0						
23 D	10.90	-3.3437E-04	58.24	14.50	58.24	42.00	ACTIVE	0.000	-4.400	40.00	
1.000	1.000	54.50	0.000	0.000	Ug5_2_8_L_0						
24 D	11.40	-2.7765E-04	60.87	15.16	60.87	43.18	ACTIVE	0.000	-4.600	41.82	
1.000	1.000	56.98	0.000	0.000	Ug5_2_8_L_0						
25 D	11.89	-2.2841E-04	63.46	15.80	63.46	44.33	ACTIVE	0.000	-4.800	43.64	
1.000	1.000	59.44	0.000	0.000	Ug5_2_8_L_0						
26 D	13.32	-1.8630E-04	66.04	21.12	66.04	45.46	UL-RL	1.2410E+05	-5.000	45.45	
1.000	1.000	66.58	0.000	0.000	Ug5_2_8_L_0						
27 D	14.79	-1.5084E-04	68.45	26.68	68.45	46.56	UL-RL	1.2410E+05	-5.200	47.27	
1.000	1.000	73.95	0.000	0.000	Ug5_2_8_L_0						
28 D	16.11	-1.2151E-04	70.86	31.44	70.86	47.64	UL-RL	1.2410E+05	-5.400	49.09	
1.000	1.000	80.53	0.000	0.000	Ug5_2_8_L_0						
29 D	17.28	-9.7727E-05	73.28	35.49	73.28	48.70	UL-RL	1.2410E+05	-5.600	50.91	
1.000	1.000	86.40	0.000	0.000	Ug5_2_8_L_0						
30 D	18.33	-7.8878E-05	75.70	38.91	75.70	49.74	UL-RL	1.2410E+05	-5.800	52.73	
1.000	1.000	91.64	0.000	0.000	Ug5_2_8_L_0						
31 D	19.27	-6.4362E-05	78.12	41.78	78.12	50.76	UL-RL	1.2410E+05	-6.000	54.55	
1.000	1.000	96.33	0.000	0.000	Ug5_2_8_L_0						
32 D	20.11	-5.3582E-05	80.54	44.17	80.54	51.77	UL-RL	1.2410E+05	-6.200	56.36	
1.000	1.000	100.5	0.000	0.000	Ug5_2_8_L_0						
33 D	20.87	-4.5972E-05	82.97	46.15	82.97	52.76	UL-RL	1.2410E+05	-6.400	58.18	

1.000	1.000	104.3	0.000	0.000	Ug5_2_8_L_0					
34 D	21.56	-4.1001E-05	85.63	47.80	85.63	53.74	UL-RL	1.2410E+05	-6.600	60.00
1.000	1.000	107.8	0.000	0.000	Ug5_2_8_L_0					
35 D	22.20	-3.8183E-05	88.19	49.17	88.19	54.71	UL-RL	1.2410E+05	-6.800	61.82
1.000	1.000	111.0	0.000	0.000	Ug5_2_8_L_0					
36 D	22.79	-3.7079E-05	91.31	50.32	91.31	55.67	UL-RL	1.2410E+05	-7.000	63.64
1.000	1.000	114.0	0.000	0.000	Ug5_2_8_L_0					
37 D	23.35	-3.7301E-05	93.84	51.30	93.84	56.61	UL-RL	1.2410E+05	-7.200	65.45
1.000	1.000	116.8	0.000	0.000	Ug5_2_8_L_0					
38 D	23.89	-3.8512E-05	96.90	52.16	96.90	57.55	UL-RL	1.2410E+05	-7.400	67.27
1.000	1.000	119.4	0.000	0.000	Ug5_2_8_L_0					
39 D	24.40	-4.0422E-05	99.39	52.92	99.39	58.49	UL-RL	1.2410E+05	-7.600	69.09
1.000	1.000	122.0	0.000	0.000	Ug5_2_8_L_0					
40 D	24.91	-4.2787E-05	102.4	53.62	102.4	59.41	UL-RL	1.2410E+05	-7.800	70.91
1.000	1.000	124.5	0.000	0.000	Ug5_2_8_L_0					
41 D	25.40	-4.5406E-05	105.4	54.28	105.4	60.33	UL-RL	1.2410E+05	-8.000	72.73
1.000	1.000	127.0	0.000	0.000	Ug5_2_8_L_0					
42 D	25.90	-4.8118E-05	107.8	54.93	107.8	61.24	UL-RL	1.2410E+05	-8.200	74.55
1.000	1.000	129.5	0.000	0.000	Ug5_2_8_L_0					
43 D	26.39	-5.0796E-05	110.7	55.58	110.7	62.15	UL-RL	1.2410E+05	-8.400	76.36
1.000	1.000	131.9	0.000	0.000	Ug5_2_8_L_0					
44 D	26.89	-5.3345E-05	113.2	56.25	113.2	63.06	UL-RL	1.2410E+05	-8.600	78.18
1.000	1.000	134.4	0.000	0.000	Ug5_2_8_L_0					
45 D	27.39	-5.5694E-05	116.0	56.93	116.0	63.96	UL-RL	1.2410E+05	-8.800	80.00
1.000	1.000	136.9	0.000	0.000	Ug5_2_8_L_0					
46 D	27.89	-5.7798E-05	118.4	57.64	118.4	64.86	UL-RL	1.2410E+05	-9.000	81.82
1.000	1.000	139.5	0.000	0.000	Ug5_2_8_L_0					
47 D	28.41	-5.9631E-05	121.3	58.39	121.3	65.75	UL-RL	1.2410E+05	-9.200	83.64
1.000	1.000	142.0	0.000	0.000	Ug5_2_8_L_0					
48 D	28.92	-6.1182E-05	123.7	59.17	123.7	66.64	UL-RL	1.2410E+05	-9.400	85.45
1.000	1.000	144.6	0.000	0.000	Ug5_2_8_L_0					
49 D	29.45	-6.2452E-05	126.5	59.98	126.5	67.53	UL-RL	1.2410E+05	-9.600	87.27
1.000	1.000	147.3	0.000	0.000	Ug5_2_8_L_0					
50 D	29.98	-6.3455E-05	128.8	60.82	128.8	68.42	UL-RL	1.2410E+05	-9.800	89.09
1.000	1.000	149.9	0.000	0.000	Ug5_2_8_L_0					
51 D	30.52	-6.4209E-05	131.6	61.69	131.6	69.31	UL-RL	1.2410E+05	-10.00	90.91
1.000	1.000	152.6	0.000	0.000	Ug5_2_8_L_0					
52 D	31.06	-6.4740E-05	134.0	62.59	134.0	70.19	UL-RL	1.2410E+05	-10.20	92.73
1.000	1.000	155.3	0.000	0.000	Ug5_2_8_L_0					
53 D	31.61	-6.5076E-05	136.7	63.51	136.7	71.08	UL-RL	1.2410E+05	-10.40	94.55
1.000	1.000	158.1	0.000	0.000	Ug5_2_8_L_0					
54 D	32.16	-6.5247E-05	139.5	64.45	139.5	71.96	UL-RL	1.2410E+05	-10.60	96.36
1.000	1.000	160.8	0.000	0.000	Ug5_2_8_L_0					
55 D	32.72	-6.5286E-05	141.8	65.41	141.8	72.85	UL-RL	1.2410E+05	-10.80	98.18
1.000	1.000	163.6	0.000	0.000	Ug5_2_8_L_0					
56 D	33.28	-6.5220E-05	144.5	66.38	144.5	73.73	UL-RL	1.2410E+05	-11.00	100.00
1.000	1.000	166.4	0.000	0.000	Ug5_2_8_L_0					
57 D	33.84	-6.5079E-05	146.8	67.36	146.8	74.61	UL-RL	1.2410E+05	-11.20	101.8
1.000	1.000	169.2	0.000	0.000	Ug5_2_8_L_0					
58 D	34.40	-6.4886E-05	149.5	68.34	149.5	75.50	UL-RL	1.2410E+05	-11.40	103.6
1.000	1.000	172.0	0.000	0.000	Ug5_2_8_L_0					
59 D	34.96	-6.4662E-05	151.8	69.33	151.8	76.38	UL-RL	1.2410E+05	-11.60	105.5
1.000	1.000	174.8	0.000	0.000	Ug5_2_8_L_0					
60 D	35.52	-6.4424E-05	154.5	70.32	154.5	77.26	UL-RL	1.2410E+05	-11.80	107.3
1.000	1.000	177.6	0.000	0.000	Ug5_2_8_L_0					
61 D	18.04	-6.4181E-05	156.8	71.31	156.8	78.15	UL-RL	1.2410E+05	-12.00	109.1
1.000	1.000	180.4	0.000	0.000	Ug5_2_8_L_0					

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|                PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*                |
|                                                                                                                                           |
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|                NewProject.BaseDesignSection_28.Nominal_63                                                                           |
|                Exe Time :24 May 2018  18:23:40                                                                                       |
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New Project

STRESS RESULTS FOR GROUP NO. 2

0\_R :  
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 61  
CURRENT TIME IS 3.0000

HARDENING 2D SOIL ELEMENT

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

EL * FACTOR	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
1	0.000	--	--	--	--	--	REMOVED	--	0.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
2	0.000	--	--	--	--	--	REMOVED	--	-0.2000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
3	0.000	--	--	--	--	--	REMOVED	--	-0.4000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
4	0.000	--	--	--	--	--	REMOVED	--	-0.6000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
5	0.000	--	--	--	--	--	REMOVED	--	-0.8000	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	--	-1.200	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
8	0.000	--	--	--	--	--	REMOVED	--	-1.400	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
9	0.000	--	--	--	--	--	REMOVED	--	-1.600	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
10	0.000	--	--	--	--	--	REMOVED	--	-1.800	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
11 D	0.000	1.5831E-03	0.000	0.000	20.00	25.89	PASSIVE	0.000	-2.000	0.000	
1.000	1.000	0.000	0.000	0.000	Ug5_2_8_L_0						
12 D	2.887	1.4482E-03	1.818	12.25	22.00	27.27	PASSIVE	0.000	-2.200	2.182	
1.000	1.000	14.43	0.000	0.000	Ug5_2_8_L_0						
13 D	5.773	1.3165E-03	3.636	24.50	24.00	28.62	PASSIVE	0.000	-2.400	4.364	
1.000	1.000	28.87	0.000	0.000	Ug5_2_8_L_0						
14 D	8.660	1.1890E-03	5.455	36.75	26.00	36.75	PASSIVE	0.000	-2.600	6.545	
1.000	1.000	43.30	0.000	0.000	Ug5_2_8_L_0						
15 D	11.55	1.0663E-03	7.273	49.00	28.00	49.00	PASSIVE	0.000	-2.800	8.727	
1.000	1.000	57.73	0.000	0.000	Ug5_2_8_L_0						
16 D	12.17	9.4950E-04	9.091	49.92	30.00	49.92	V-C	2.0566E+04	-3.000	10.91	
1.000	1.000	60.83	0.000	0.000	Ug5_2_8_L_0						
17 D	12.43	8.3911E-04	10.91	49.04	32.00	49.04	V-C	2.0566E+04	-3.200	13.09	
1.000	1.000	62.13	0.000	0.000	Ug5_2_8_L_0						
18 D	12.71	7.3573E-04	12.73	48.26	34.00	48.26	V-C	2.0566E+04	-3.400	15.27	
1.000	1.000	63.53	0.000	0.000	Ug5_2_8_L_0						
19 D	13.01	6.3978E-04	14.55	47.59	36.00	47.59	V-C	2.0566E+04	-3.600	17.45	
1.000	1.000	65.05	0.000	0.000	Ug5_2_8_L_0						
20 D	13.34	5.5155E-04	16.36	47.04	38.00	47.04	V-C	2.0566E+04	-3.800	19.64	
1.000	1.000	66.68	0.000	0.000	Ug5_2_8_L_0						
21 D	13.69	4.7122E-04	18.18	46.62	40.00	46.62	V-C	2.0566E+04	-4.000	21.82	
1.000	1.000	68.44	0.000	0.000	Ug5_2_8_L_0						
22 D	14.06	3.9884E-04	20.00	46.32	42.00	46.32	V-C	2.0566E+04	-4.200	24.00	
1.000	1.000	70.32	0.000	0.000	Ug5_2_8_L_0						
23 D	14.47	3.3437E-04	21.82	46.16	44.00	46.16	V-C	2.0566E+04	-4.400	26.18	
1.000	1.000	72.34	0.000	0.000	Ug5_2_8_L_0						
24 D	14.90	2.7765E-04	23.64	46.12	46.00	46.12	V-C	2.0566E+04	-4.600	28.36	
1.000	1.000	74.49	0.000	0.000	Ug5_2_8_L_0						
25 D	15.35	2.2841E-04	25.45	46.21	48.00	46.21	V-C	2.0566E+04	-4.800	30.55	
1.000	1.000	76.76	0.000	0.000	Ug5_2_8_L_0						
26 D	15.83	1.8630E-04	27.27	46.43	50.00	46.43	V-C	2.0566E+04	-5.000	32.73	
1.000	1.000	79.15	0.000	0.000	Ug5_2_8_L_0						
27 D	16.33	1.5084E-04	29.09	46.75	52.00	46.75	V-C	2.0566E+04	-5.200	34.91	
1.000	1.000	81.66	0.000	0.000	Ug5_2_8_L_0						
28 D	16.85	1.2151E-04	30.91	47.17	54.00	47.17	V-C	2.0566E+04	-5.400	37.09	
1.000	1.000	84.27	0.000	0.000	Ug5_2_8_L_0						
29 D	17.39	9.7727E-05	32.73	47.69	56.00	47.69	V-C	2.0566E+04	-5.600	39.27	
1.000	1.000	86.97	0.000	0.000	Ug5_2_8_L_0						
30 D	17.87	7.8878E-05	34.55	47.92	58.00	48.48	UL-RL	6.1699E+04	-5.800	41.45	
1.000	1.000	89.37	0.000	0.000	Ug5_2_8_L_0						
31 D	18.32	6.4362E-05	36.36	47.99	60.00	49.46	UL-RL	6.1699E+04	-6.000	43.64	
1.000	1.000	91.62	0.000	0.000	Ug5_2_8_L_0						
32 D	18.82	5.3582E-05	38.18	48.26	62.00	50.42	UL-RL	6.1699E+04	-6.200	45.82	
1.000	1.000	94.08	0.000	0.000	Ug5_2_8_L_0						
33 D	19.34	4.5972E-05	40.00	48.71	64.00	51.37	UL-RL	6.1699E+04	-6.400	48.00	

1.000	1.000	96.71	0.000	0.000	Ug5_2_8_L_0					
34 D	19.90	4.1001E-05	41.82	49.31	66.00	52.31	UL-RL	6.1699E+04	-6.600	50.18
1.000	1.000	99.49	0.000	0.000	Ug5_2_8_L_0					
35 D	20.48	3.8183E-05	43.64	50.02	68.00	53.23	UL-RL	6.1699E+04	-6.800	52.36
1.000	1.000	102.4	0.000	0.000	Ug5_2_8_L_0					
36 D	21.08	3.7079E-05	45.45	50.83	70.00	54.14	UL-RL	6.1699E+04	-7.000	54.55
1.000	1.000	105.4	0.000	0.000	Ug5_2_8_L_0					
37 D	21.69	3.7301E-05	47.27	51.71	72.00	55.05	UL-RL	6.1699E+04	-7.200	56.73
1.000	1.000	108.4	0.000	0.000	Ug5_2_8_L_0					
38 D	22.31	3.8512E-05	49.09	52.64	74.00	55.95	UL-RL	6.1699E+04	-7.400	58.91
1.000	1.000	111.5	0.000	0.000	Ug5_2_8_L_0					
39 D	22.94	4.0422E-05	50.91	53.60	76.00	56.83	UL-RL	6.1699E+04	-7.600	61.09
1.000	1.000	114.7	0.000	0.000	Ug5_2_8_L_0					
40 D	23.57	4.2787E-05	52.73	54.58	78.00	57.72	UL-RL	6.1699E+04	-7.800	63.27
1.000	1.000	117.9	0.000	0.000	Ug5_2_8_L_0					
41 D	24.20	4.5406E-05	54.55	55.57	80.00	58.59	UL-RL	6.1699E+04	-8.000	65.45
1.000	1.000	121.0	0.000	0.000	Ug5_2_8_L_0					
42 D	24.84	4.8118E-05	56.36	56.56	82.00	59.46	UL-RL	6.1699E+04	-8.200	67.64
1.000	1.000	124.2	0.000	0.000	Ug5_2_8_L_0					
43 D	25.47	5.0796E-05	58.18	57.54	84.00	60.33	UL-RL	6.1699E+04	-8.400	69.82
1.000	1.000	127.4	0.000	0.000	Ug5_2_8_L_0					
44 D	26.10	5.3345E-05	60.00	58.51	86.00	61.19	UL-RL	6.1699E+04	-8.600	72.00
1.000	1.000	130.5	0.000	0.000	Ug5_2_8_L_0					
45 D	26.73	5.5694E-05	61.82	59.45	88.00	62.05	UL-RL	6.1699E+04	-8.800	74.18
1.000	1.000	133.6	0.000	0.000	Ug5_2_8_L_0					
46 D	27.35	5.7798E-05	63.64	60.39	90.00	62.90	UL-RL	6.1699E+04	-9.000	76.36
1.000	1.000	136.7	0.000	0.000	Ug5_2_8_L_0					
47 D	27.97	5.9631E-05	65.45	61.30	92.00	63.75	UL-RL	6.1699E+04	-9.200	78.55
1.000	1.000	139.8	0.000	0.000	Ug5_2_8_L_0					
48 D	28.58	6.1182E-05	67.27	62.19	94.00	64.60	UL-RL	6.1699E+04	-9.400	80.73
1.000	1.000	142.9	0.000	0.000	Ug5_2_8_L_0					
49 D	29.19	6.2452E-05	69.09	63.06	96.00	65.45	UL-RL	6.1699E+04	-9.600	82.91
1.000	1.000	146.0	0.000	0.000	Ug5_2_8_L_0					
50 D	29.80	6.3455E-05	70.91	63.91	98.00	66.29	UL-RL	6.1699E+04	-9.800	85.09
1.000	1.000	149.0	0.000	0.000	Ug5_2_8_L_0					
51 D	30.40	6.4209E-05	72.73	64.74	100.00	67.13	UL-RL	6.1699E+04	-10.000	87.27
1.000	1.000	152.0	0.000	0.000	Ug5_2_8_L_0					
52 D	31.00	6.4740E-05	74.55	65.56	102.0	67.98	UL-RL	6.1699E+04	-10.200	89.45
1.000	1.000	155.0	0.000	0.000	Ug5_2_8_L_0					
53 D	31.60	6.5076E-05	76.36	66.37	104.0	68.82	UL-RL	6.1699E+04	-10.400	91.64
1.000	1.000	158.0	0.000	0.000	Ug5_2_8_L_0					
54 D	32.20	6.5247E-05	78.18	67.16	106.0	69.66	UL-RL	6.1699E+04	-10.600	93.82
1.000	1.000	161.0	0.000	0.000	Ug5_2_8_L_0					
55 D	32.79	6.5286E-05	80.00	67.95	108.0	70.50	UL-RL	6.1699E+04	-10.800	96.00
1.000	1.000	163.9	0.000	0.000	Ug5_2_8_L_0					
56 D	33.38	6.5220E-05	81.82	68.72	110.0	71.34	UL-RL	6.1699E+04	-11.000	98.18
1.000	1.000	166.9	0.000	0.000	Ug5_2_8_L_0					
57 D	33.97	6.5079E-05	83.64	69.50	112.0	72.18	UL-RL	6.1699E+04	-11.200	100.4
1.000	1.000	169.9	0.000	0.000	Ug5_2_8_L_0					
58 D	34.56	6.4886E-05	85.45	70.27	114.0	73.02	UL-RL	6.1699E+04	-11.400	102.5
1.000	1.000	172.8	0.000	0.000	Ug5_2_8_L_0					
59 D	35.15	6.4662E-05	87.27	71.04	116.0	73.86	UL-RL	6.1699E+04	-11.600	104.7
1.000	1.000	175.8	0.000	0.000	Ug5_2_8_L_0					
60 D	35.74	6.4424E-05	89.09	71.80	118.0	74.70	UL-RL	6.1699E+04	-11.800	106.9
1.000	1.000	178.7	0.000	0.000	Ug5_2_8_L_0					
61 D	18.17	6.4181E-05	90.91	72.57	120.0	75.54	UL-RL	6.1699E+04	-12.000	109.1
1.000	1.000	181.7	0.000	0.000	Ug5_2_8_L_0					



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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
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|                                                                                               |
|          NewProject.BaseDesignSection_28.Nominal_63  |
|          Exe Time :24 May 2018          18:23:40    |
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New Project

STRESS RESULTS FOR GROUP NO. 3

WallElement\_33 :  
ELEMENT TYPE 2 NO.OF ELEMENTS. IN THIS GROUP 60  
CURRENT TIME IS 3.0000

WALL2D ELEMENT

EL	TA	TB	MA	MB
1	-1.11822E-10	1.11822E-10	-1.11330E-11	1.03195E-11
2	0.47798	-0.47798	-2.68661E-11	9.55963E-02
3	1.4525	-1.4525	-9.55963E-02	0.38609
4	2.9312	-2.9312	-0.38609	0.97233
5	4.9293	-4.9293	-0.97233	1.9582
6	7.4469	-7.4469	-1.9582	3.4476
7	10.463	-10.463	-3.4476	5.5402
8	13.973	-13.973	-5.5402	8.3348
9	17.982	-17.982	-8.3348	11.931
10	22.481	-22.481	-11.931	16.427
11	27.475	-27.475	-16.427	21.922
12	30.071	-30.071	-21.922	27.937
13	30.274	-30.274	-27.937	33.991
14	28.080	-28.080	-33.991	39.607
15	23.493	-23.493	-39.607	44.306
16	18.777	-18.777	-44.306	48.061
17	14.294	-14.294	-48.061	50.920
18	10.022	-10.022	-50.920	52.924
19	5.9387	-5.9387	-52.924	54.112
20	2.0242	-2.0242	-54.112	54.517
21	-1.7498	1.7498	-54.517	54.167
22	-5.4064	5.4064	-54.167	53.086
23	-8.9742	8.9742	-53.086	51.291
24	-12.477	12.477	-51.291	48.796
25	-15.941	15.941	-48.796	45.607
26	-18.456	18.456	-45.607	41.916
27	-19.998	19.998	-41.916	37.917
28	-20.745	20.745	-37.917	33.768
29	-20.858	20.858	-33.768	29.596
30	-20.404	20.404	-29.596	25.516
31	-19.463	19.463	-25.516	21.623
32	-18.172	18.172	-21.623	17.989
33	-16.646	16.646	-17.989	14.659
34	-14.984	14.984	-14.659	11.663
35	-13.263	13.263	-11.663	9.0101
36	-11.546	11.546	-9.0101	6.7009
37	-9.8815	9.8815	-6.7009	4.7246
38	-8.3049	8.3049	-4.7246	3.0636
39	-6.8413	6.8413	-3.0636	1.6954
40	-5.5067	5.5067	-1.6954	0.59404
41	-4.3098	4.3098	-0.59404	-0.26791
42	-3.2533	3.2533	0.26791	-0.91858
43	-2.3355	2.3355	0.91858	-1.3857
44	-1.5511	1.5511	1.3857	-1.6959
45	-0.89227	0.89227	1.6959	-1.8744
46	-0.34959	0.34959	1.8744	-1.9443
47	8.72651E-02	-8.72651E-02	1.9443	-1.9268
48	0.42897	-0.42897	1.9268	-1.8410
49	0.68609	-0.68609	1.8410	-1.7038
50	0.86870	-0.86870	1.7038	-1.5301
51	0.98610	-0.98610	1.5301	-1.3328
52	1.0467	-1.0467	1.3328	-1.1235
53	1.0576	-1.0576	1.1235	-0.91200
54	1.0252	-1.0252	0.91200	-0.70696
55	0.95433	-0.95433	0.70696	-0.51609
56	0.84890	-0.84890	0.51609	-0.34631
57	0.71175	-0.71175	0.34631	-0.20396
58	0.54482	-0.54482	0.20396	-9.49974E-02
59	0.34928	-0.34928	9.49974E-02	-2.51418E-02
60	0.12570	-0.12570	2.51418E-02	-3.94665E-13

ITER 0 RNORM = 5584. RMNORM= 0.000  
RINORM=0.6723E+05 RIMNOR=0.8024E+05  
RENORM= 4238. REMNOR=0.7695E-21 RATIO =0.2511 TOLER =0.1000E-03 NOT CONVERGED  
RFMAX = 72.00 RMMAX = 54.52  
RTSMAL=0.1000E-03 RMSMAL=0.1000E-03  
RDT =0.6723E+05 RDR =0.8024E+05  
RATIOT=0.2511 RATIO= 0.000  
MAX UN= 11.40 IEQ= 29 NODE 15 DOF 1 Y-DISPL.F

MIN UN=-59.99 IEQ= 31 NODE 16 DOF 1 Y-DISPL.F  
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 2 RNORM = 5584. RMNORM= 0.000  
RINORM=0.6723E+05 RIMNOR=0.8024E+05  
RENORM=0.6926 REMNOR=0.5886E-21 RATIO =0.3210E-02 TOLER =0.1000E-03 NOT CONVERGED  
RFMAX = 72.00 RMMAX = 54.52  
RTSMAL=0.1000E-03 RMSMAL=0.1000E-03  
RDT =0.6723E+05 RDR =0.8024E+05  
RATIOT=0.3210E-02 RATIOOR= 0.000  
MAX UN=0.6202 IEQ= 49 NODE 25 DOF 1 Y-DISPL.F  
MIN UN=-.2507E-09 IEQ= 3 NODE 2 DOF 1 Y-DISPL.F  
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 3 RNORM = 5584. RMNORM= 0.000  
RINORM=0.6723E+05 RIMNOR=0.8024E+05  
RENORM=0.9399E-19 REMNOR=0.2992E-21 RATIO =0.1182E-11 TOLER =0.1000E-03 CONVERGED !  
RFMAX = 72.00 RMMAX = 54.52  
RTSMAL=0.1000E-03 RMSMAL=0.1000E-03  
RDT =0.6723E+05 RDR =0.8024E+05  
RATIOT=0.1182E-11 RATIOOR= 0.000  
MAX UN=0.1670E-09 IEQ= 3 NODE 2 DOF 1 Y-DISPL.F  
MIN UN=-.1195E-09 IEQ= 5 NODE 3 DOF 1 Y-DISPL.F  
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
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New Project
SOLUTION REACHED USING      3 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   4   ( AT TIME   4.000   )

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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	2.9614065E-03	-7.3124562E-04	
2	2.8151574E-03	-7.3124562E-04	
3	2.6689134E-03	-7.3116792E-04	
4	2.5227084E-03	-7.3081667E-04	
5	2.3766235E-03	-7.2991457E-04	
6	2.2308034E-03	-7.2810132E-04	
7	2.0854733E-03	-7.2493268E-04	
8	1.9409557E-03	-7.1988236E-04	
9	1.7976862E-03	-7.1234450E-04	
10	1.6562294E-03	-7.0163446E-04	
11	1.5172947E-03	-6.8699039E-04	
12	1.3817513E-03	-6.6757510E-04	
13	1.2506434E-03	-6.4247820E-04	
14	1.1252042E-03	-6.1071884E-04	
15	1.0067724E-03	-5.7271191E-04	
16	8.9651249E-04	-5.2880957E-04	
17	7.9536791E-04	-4.8310980E-04	
18	7.0310633E-04	-4.3983601E-04	
19	6.1931872E-04	-3.9828394E-04	
20	5.4369979E-04	-3.5812622E-04	
21	4.7597562E-04	-3.1936269E-04	
22	4.1585182E-04	-2.8214774E-04	
23	3.6300145E-04	-2.4665885E-04	
24	3.1706074E-04	-2.1308305E-04	
25	2.7762756E-04	-1.8161737E-04	
26	2.4425918E-04	-1.5247097E-04	
27	2.1647031E-04	-1.2585945E-04	
28	1.9373585E-04	-1.0194331E-04	
29	1.7550910E-04	-8.0785459E-05	
30	1.6123874E-04	-6.2371440E-05	
31	1.5038286E-04	-4.6622439E-05	
32	1.4242120E-04	-3.3402512E-05	
33	1.3686534E-04	-2.2530833E-05	
34	1.3326631E-04	-1.3797547E-05	
35	1.3121885E-04	-6.9764127E-06	
36	1.3036374E-04	-1.8353168E-06	
37	1.3038803E-04	1.8554752E-06	
38	1.3102398E-04	4.3171077E-06	
39	1.3204679E-04	5.7574380E-06	
40	1.3327164E-04	6.3679740E-06	
41	1.3455021E-04	6.3219155E-06	
42	1.3576690E-04	5.7732038E-06	
43	1.3683495E-04	4.8563597E-06	
44	1.3769260E-04	3.6869304E-06	
45	1.3829938E-04	2.3623991E-06	
46	1.3863259E-04	9.6337792E-07	
47	1.3868411E-04	-4.4492581E-07	
48	1.3845742E-04	-1.8112003E-06	
49	1.3796503E-04	-3.0964556E-06	
50	1.3722613E-04	-4.2724804E-06	
51	1.3626458E-04	-5.3204058E-06	
52	1.3510720E-04	-6.2293435E-06	
53	1.3378243E-04	-6.9950792E-06	
54	1.3231867E-04	-7.6192911E-06	
55	1.3074372E-04	-8.1083283E-06	
56	1.2908365E-04	-8.4726567E-06	
57	1.2736205E-04	-8.7262334E-06	
58	1.2559941E-04	-8.8860646E-06	
59	1.2381255E-04	-8.9718922E-06	
60	1.2201410E-04	-9.0059897E-06	
61	1.2021187E-04	-9.0130438E-06	



1.000	1.000	95.15	0.000	0.000	Ug5_2_8_L_0					
34 D	19.69	-1.3327E-04	89.06	41.88	89.06	53.74	UL-RL	8.2735E+04	-6.600	56.57
1.000	1.000	98.45	0.000	0.000	Ug5_2_8_L_0					
35 D	20.31	-1.3122E-04	91.72	43.24	91.72	54.71	UL-RL	8.2735E+04	-6.800	58.29
1.000	1.000	101.5	0.000	0.000	Ug5_2_8_L_0					
36 D	20.88	-1.3036E-04	94.95	44.42	94.95	55.67	UL-RL	8.2735E+04	-7.000	60.00
1.000	1.000	104.4	0.000	0.000	Ug5_2_8_L_0					
37 D	21.44	-1.3039E-04	97.58	45.47	97.58	56.61	UL-RL	8.2735E+04	-7.200	61.71
1.000	1.000	107.2	0.000	0.000	Ug5_2_8_L_0					
38 D	21.97	-1.3102E-04	100.7	46.42	100.7	57.55	UL-RL	8.2735E+04	-7.400	63.43
1.000	1.000	109.9	0.000	0.000	Ug5_2_8_L_0					
39 D	22.49	-1.3205E-04	103.3	47.31	103.3	58.49	UL-RL	8.2735E+04	-7.600	65.14
1.000	1.000	112.5	0.000	0.000	Ug5_2_8_L_0					
40 D	23.00	-1.3327E-04	106.4	48.16	106.4	59.41	UL-RL	8.2735E+04	-7.800	66.86
1.000	1.000	115.0	0.000	0.000	Ug5_2_8_L_0					
41 D	23.51	-1.3455E-04	109.5	48.98	109.5	60.33	UL-RL	8.2735E+04	-8.000	68.57
1.000	1.000	117.6	0.000	0.000	Ug5_2_8_L_0					
42 D	24.02	-1.3577E-04	112.1	49.81	112.1	61.24	UL-RL	8.2735E+04	-8.200	70.29
1.000	1.000	120.1	0.000	0.000	Ug5_2_8_L_0					
43 D	24.53	-1.3683E-04	115.1	50.65	115.1	62.15	UL-RL	8.2735E+04	-8.400	72.00
1.000	1.000	122.6	0.000	0.000	Ug5_2_8_L_0					
44 D	25.04	-1.3769E-04	117.6	51.50	117.6	63.06	UL-RL	8.2735E+04	-8.600	73.71
1.000	1.000	125.2	0.000	0.000	Ug5_2_8_L_0					
45 D	25.56	-1.3830E-04	120.6	52.38	120.6	63.96	UL-RL	8.2735E+04	-8.800	75.43
1.000	1.000	127.8	0.000	0.000	Ug5_2_8_L_0					
46 D	26.09	-1.3863E-04	123.1	53.29	123.1	64.86	UL-RL	8.2735E+04	-9.000	77.14
1.000	1.000	130.4	0.000	0.000	Ug5_2_8_L_0					
47 D	26.62	-1.3868E-04	126.1	54.24	126.1	65.75	UL-RL	8.2735E+04	-9.200	78.86
1.000	1.000	133.1	0.000	0.000	Ug5_2_8_L_0					
48 D	27.16	-1.3846E-04	128.5	55.22	128.5	66.64	UL-RL	8.2735E+04	-9.400	80.57
1.000	1.000	135.8	0.000	0.000	Ug5_2_8_L_0					
49 D	27.70	-1.3797E-04	131.5	56.22	131.5	67.53	UL-RL	8.2735E+04	-9.600	82.29
1.000	1.000	138.5	0.000	0.000	Ug5_2_8_L_0					
50 D	28.25	-1.3723E-04	133.9	57.26	133.9	68.42	UL-RL	8.2735E+04	-9.800	84.00
1.000	1.000	141.3	0.000	0.000	Ug5_2_8_L_0					
51 D	28.81	-1.3626E-04	136.8	58.33	136.8	69.31	UL-RL	8.2735E+04	-10.00	85.71
1.000	1.000	144.0	0.000	0.000	Ug5_2_8_L_0					
52 D	29.37	-1.3511E-04	139.3	59.42	139.3	70.19	UL-RL	8.2735E+04	-10.20	87.43
1.000	1.000	146.8	0.000	0.000	Ug5_2_8_L_0					
53 D	29.93	-1.3378E-04	142.1	60.53	142.1	71.08	UL-RL	8.2735E+04	-10.40	89.14
1.000	1.000	149.7	0.000	0.000	Ug5_2_8_L_0					
54 D	30.50	-1.3232E-04	145.0	61.66	145.0	71.96	UL-RL	8.2735E+04	-10.60	90.86
1.000	1.000	152.5	0.000	0.000	Ug5_2_8_L_0					
55 D	31.07	-1.3074E-04	147.4	62.80	147.4	72.85	UL-RL	8.2735E+04	-10.80	92.57
1.000	1.000	155.4	0.000	0.000	Ug5_2_8_L_0					
56 D	31.65	-1.2908E-04	150.2	63.95	150.2	73.73	UL-RL	8.2735E+04	-11.00	94.29
1.000	1.000	158.2	0.000	0.000	Ug5_2_8_L_0					
57 D	32.22	-1.2736E-04	152.7	65.11	152.7	74.61	UL-RL	8.2735E+04	-11.20	96.00
1.000	1.000	161.1	0.000	0.000	Ug5_2_8_L_0					
58 D	32.80	-1.2560E-04	155.4	66.28	155.4	75.50	UL-RL	8.2735E+04	-11.40	97.71
1.000	1.000	164.0	0.000	0.000	Ug5_2_8_L_0					
59 D	33.38	-1.2381E-04	157.9	67.45	157.9	76.38	UL-RL	8.2735E+04	-11.60	99.43
1.000	1.000	166.9	0.000	0.000	Ug5_2_8_L_0					
60 D	33.95	-1.2201E-04	160.6	68.62	160.6	77.26	UL-RL	8.2735E+04	-11.80	101.1
1.000	1.000	169.8	0.000	0.000	Ug5_2_8_L_0					
61 D	17.27	-1.2021E-04	163.1	69.80	163.1	78.15	UL-RL	8.2735E+04	-12.00	102.9
1.000	1.000	172.7	0.000	0.000	Ug5_2_8_L_0					

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|                PARATIEPLUS(TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION *Build date:Jul 11, 2017*                |
|                                                                                                                                            |
|                                                                                                                                            |
|                NewProject.BaseDesignSection_28.Nominal_63                                                                              |
|                Exe Time :24 May 2018      18:23:40                                                                              |
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New Project

STRESS RESULTS FOR GROUP NO. 2

0\_R :  
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 61  
CURRENT TIME IS 4.0000

HARDENING 2D SOIL ELEMENT

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

EL * FACTOR	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
1	0.000	--	--	--	--	--	REMOVED	--	0.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
2	0.000	--	--	--	--	--	REMOVED	--	-0.2000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
3	0.000	--	--	--	--	--	REMOVED	--	-0.4000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
4	0.000	--	--	--	--	--	REMOVED	--	-0.6000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
5	0.000	--	--	--	--	--	REMOVED	--	-0.8000	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	--	-1.200	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
8	0.000	--	--	--	--	--	REMOVED	--	-1.400	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
9	0.000	--	--	--	--	--	REMOVED	--	-1.600	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
10	0.000	--	--	--	--	--	REMOVED	--	-1.800	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
11	0.000	--	--	--	--	--	REMOVED	--	-2.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
12	0.000	--	--	--	--	--	REMOVED	--	-2.200	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
13	0.000	--	--	--	--	--	REMOVED	--	-2.400	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
14	0.000	--	--	--	--	--	REMOVED	--	-2.600	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
15	0.000	--	--	--	--	--	REMOVED	--	-2.800	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
16 D	0.000	8.9651E-04	0.000	0.000	30.00	49.92	PASSIVE	0.000	-3.000	0.000	
1.000	1.000	0.000	0.000	0.000	Ug5_2_8_L_0						
17 D	2.407	7.9537E-04	1.714	9.752	32.00	49.04	UL-RL	4.1133E+04	-3.200	2.286	
1.000	1.000	12.04	0.000	0.000	Ug5_2_8_L_0						
18 D	5.266	7.0311E-04	3.429	21.76	34.00	48.26	UL-RL	4.1133E+04	-3.400	4.571	
1.000	1.000	26.33	0.000	0.000	Ug5_2_8_L_0						
19 D	8.134	6.1932E-04	5.143	33.81	36.00	47.59	UL-RL	4.1133E+04	-3.600	6.857	
1.000	1.000	40.67	0.000	0.000	Ug5_2_8_L_0						
20 D	10.29	5.4370E-04	6.857	42.32	38.00	47.04	UL-RL	4.1133E+04	-3.800	9.143	
1.000	1.000	51.46	0.000	0.000	Ug5_2_8_L_0						
21 D	10.80	4.7598E-04	8.571	42.59	40.00	46.62	UL-RL	4.1133E+04	-4.000	11.43	
1.000	1.000	54.02	0.000	0.000	Ug5_2_8_L_0						
22 D	11.33	4.1585E-04	10.29	42.92	42.00	46.32	UL-RL	4.1133E+04	-4.200	13.71	
1.000	1.000	56.64	0.000	0.000	Ug5_2_8_L_0						
23 D	11.87	3.6300E-04	12.00	43.33	44.00	46.16	UL-RL	4.1133E+04	-4.400	16.00	
1.000	1.000	59.33	0.000	0.000	Ug5_2_8_L_0						
24 D	12.42	3.1706E-04	13.71	43.82	46.00	46.12	UL-RL	4.1133E+04	-4.600	18.29	
1.000	1.000	62.10	0.000	0.000	Ug5_2_8_L_0						
25 D	12.99	2.7763E-04	15.43	44.37	48.00	46.21	UL-RL	4.1133E+04	-4.800	20.57	
1.000	1.000	64.94	0.000	0.000	Ug5_2_8_L_0						
26 D	13.57	2.4426E-04	17.14	44.98	50.00	46.43	UL-RL	4.1133E+04	-5.000	22.86	
1.000	1.000	67.84	0.000	0.000	Ug5_2_8_L_0						
27 D	14.16	2.1647E-04	18.86	45.66	52.00	46.75	UL-RL	4.1133E+04	-5.200	25.14	
1.000	1.000	70.80	0.000	0.000	Ug5_2_8_L_0						
28 D	14.76	1.9374E-04	20.57	46.38	54.00	47.17	UL-RL	4.1133E+04	-5.400	27.43	
1.000	1.000	73.81	0.000	0.000	Ug5_2_8_L_0						
29 D	15.37	1.7551E-04	22.29	47.15	56.00	47.69	UL-RL	4.1133E+04	-5.600	29.71	
1.000	1.000	76.87	0.000	0.000	Ug5_2_8_L_0						
30 D	15.92	1.6124E-04	24.00	47.58	58.00	48.48	UL-RL	4.1133E+04	-5.800	32.00	
1.000	1.000	79.58	0.000	0.000	Ug5_2_8_L_0						
31 D	16.42	1.5038E-04	25.71	47.81	60.00	49.46	UL-RL	4.1133E+04	-6.000	34.29	
1.000	1.000	82.09	0.000	0.000	Ug5_2_8_L_0						
32 D	16.96	1.4242E-04	27.43	48.20	62.00	50.42	UL-RL	4.1133E+04	-6.200	36.57	
1.000	1.000	84.78	0.000	0.000	Ug5_2_8_L_0						
33 D	17.52	1.3687E-04	29.14	48.74	64.00	51.37	UL-RL	4.1133E+04	-6.400	38.86	

1.000	1.000	87.60	0.000	0.000	Ug5_2_8_L_0					
34 D	18.11	1.3327E-04	30.86	49.40	66.00	52.31	UL-RL	4.1133E+04	-6.600	41.14
1.000	1.000	90.54	0.000	0.000	Ug5_2_8_L_0					
35 D	18.71	1.3122E-04	32.57	50.14	68.00	53.23	UL-RL	4.1133E+04	-6.800	43.43
1.000	1.000	93.57	0.000	0.000	Ug5_2_8_L_0					
36 D	19.33	1.3036E-04	34.29	50.96	70.00	54.14	UL-RL	4.1133E+04	-7.000	45.71
1.000	1.000	96.67	0.000	0.000	Ug5_2_8_L_0					
37 D	19.96	1.3039E-04	36.00	51.82	72.00	55.05	UL-RL	4.1133E+04	-7.200	48.00
1.000	1.000	99.82	0.000	0.000	Ug5_2_8_L_0					
38 D	20.60	1.3102E-04	37.71	52.72	74.00	55.95	UL-RL	4.1133E+04	-7.400	50.29
1.000	1.000	103.0	0.000	0.000	Ug5_2_8_L_0					
39 D	21.24	1.3205E-04	39.43	53.64	76.00	56.83	UL-RL	4.1133E+04	-7.600	52.57
1.000	1.000	106.2	0.000	0.000	Ug5_2_8_L_0					
40 D	21.88	1.3327E-04	41.14	54.56	78.00	57.72	UL-RL	4.1133E+04	-7.800	54.86
1.000	1.000	109.4	0.000	0.000	Ug5_2_8_L_0					
41 D	22.53	1.3455E-04	42.86	55.48	80.00	58.59	UL-RL	4.1133E+04	-8.000	57.14
1.000	1.000	112.6	0.000	0.000	Ug5_2_8_L_0					
42 D	23.17	1.3577E-04	44.57	56.40	82.00	59.46	UL-RL	4.1133E+04	-8.200	59.43
1.000	1.000	115.8	0.000	0.000	Ug5_2_8_L_0					
43 D	23.80	1.3683E-04	46.29	57.30	84.00	60.33	UL-RL	4.1133E+04	-8.400	61.71
1.000	1.000	119.0	0.000	0.000	Ug5_2_8_L_0					
44 D	24.44	1.3769E-04	48.00	58.18	86.00	61.19	UL-RL	4.1133E+04	-8.600	64.00
1.000	1.000	122.2	0.000	0.000	Ug5_2_8_L_0					
45 D	25.07	1.3830E-04	49.71	59.05	88.00	62.05	UL-RL	4.1133E+04	-8.800	66.29
1.000	1.000	125.3	0.000	0.000	Ug5_2_8_L_0					
46 D	25.69	1.3863E-04	51.43	59.89	90.00	62.90	UL-RL	4.1133E+04	-9.000	68.57
1.000	1.000	128.5	0.000	0.000	Ug5_2_8_L_0					
47 D	26.31	1.3868E-04	53.14	60.71	92.00	63.75	UL-RL	4.1133E+04	-9.200	70.86
1.000	1.000	131.6	0.000	0.000	Ug5_2_8_L_0					
48 D	26.93	1.3846E-04	54.86	61.51	94.00	64.60	UL-RL	4.1133E+04	-9.400	73.14
1.000	1.000	134.7	0.000	0.000	Ug5_2_8_L_0					
49 D	27.54	1.3797E-04	56.57	62.29	96.00	65.45	UL-RL	4.1133E+04	-9.600	75.43
1.000	1.000	137.7	0.000	0.000	Ug5_2_8_L_0					
50 D	28.15	1.3723E-04	58.29	63.05	98.00	66.29	UL-RL	4.1133E+04	-9.800	77.71
1.000	1.000	140.8	0.000	0.000	Ug5_2_8_L_0					
51 D	28.76	1.3626E-04	60.00	63.79	100.00	67.13	UL-RL	4.1133E+04	-10.000	80.00
1.000	1.000	143.8	0.000	0.000	Ug5_2_8_L_0					
52 D	29.36	1.3511E-04	61.71	64.53	102.0	67.98	UL-RL	4.1133E+04	-10.200	82.29
1.000	1.000	146.8	0.000	0.000	Ug5_2_8_L_0					
53 D	29.96	1.3378E-04	63.43	65.24	104.0	68.82	UL-RL	4.1133E+04	-10.400	84.57
1.000	1.000	149.8	0.000	0.000	Ug5_2_8_L_0					
54 D	30.56	1.3232E-04	65.14	65.95	106.0	69.66	UL-RL	4.1133E+04	-10.600	86.86
1.000	1.000	152.8	0.000	0.000	Ug5_2_8_L_0					
55 D	31.16	1.3074E-04	66.86	66.65	108.0	70.50	UL-RL	4.1133E+04	-10.800	89.14
1.000	1.000	155.8	0.000	0.000	Ug5_2_8_L_0					
56 D	31.75	1.2908E-04	68.57	67.34	110.0	71.34	UL-RL	4.1133E+04	-11.000	91.43
1.000	1.000	158.8	0.000	0.000	Ug5_2_8_L_0					
57 D	32.35	1.2736E-04	70.29	68.03	112.0	72.18	UL-RL	4.1133E+04	-11.200	93.71
1.000	1.000	161.7	0.000	0.000	Ug5_2_8_L_0					
58 D	32.94	1.2560E-04	72.00	68.71	114.0	73.02	UL-RL	4.1133E+04	-11.400	96.00
1.000	1.000	164.7	0.000	0.000	Ug5_2_8_L_0					
59 D	33.54	1.2381E-04	73.71	69.40	116.0	73.86	UL-RL	4.1133E+04	-11.600	98.29
1.000	1.000	167.7	0.000	0.000	Ug5_2_8_L_0					
60 D	34.13	1.2201E-04	75.43	70.08	118.0	74.70	UL-RL	4.1133E+04	-11.800	100.6
1.000	1.000	170.6	0.000	0.000	Ug5_2_8_L_0					
61 D	17.36	1.2021E-04	77.14	70.76	120.0	75.54	UL-RL	4.1133E+04	-12.000	102.9
1.000	1.000	173.6	0.000	0.000	Ug5_2_8_L_0					

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION *Build date:Jul 11, 2017*          |
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New Project

STRESS RESULTS FOR GROUP NO. 3

WallElement\_33 :  
ELEMENT TYPE 2 NO.OF ELEMENTS. IN THIS GROUP 60  
CURRENT TIME IS 4.0000

WALL2D ELEMENT

EL	TA	TB	MA	MB
1	6.88409E-11	-6.88409E-11	6.94411E-12	2.86746E-11
2	1.0623	-1.0623	-3.16884E-11	0.21246
3	2.6777	-2.6777	-0.21246	0.74799
4	4.8534	-4.8534	-0.74799	1.7187
5	7.6038	-7.6038	-1.7187	3.2394
6	10.927	-10.927	-3.2394	5.4248
7	14.799	-14.799	-5.4248	8.3846
8	19.210	-19.210	-8.3846	12.227
9	24.159	-24.159	-12.227	17.059
10	29.626	-29.626	-17.059	22.984
11	35.605	-35.605	-22.984	30.105
12	42.073	-42.073	-30.105	38.519
13	49.015	-49.015	-38.519	48.323
14	36.401	-36.401	-48.323	55.603
15	44.200	-44.200	-55.603	64.443
16	-19.629	19.629	-64.443	60.517
17	-13.535	13.535	-60.517	57.810
18	-10.004	10.004	-57.810	55.809
19	-9.0597	9.0597	-55.809	53.997
20	-9.9990	9.9990	-53.997	51.997
21	-11.176	11.176	-51.997	49.762
22	-12.423	12.423	-49.762	47.278
23	-13.733	13.733	-47.278	44.531
24	-15.117	15.117	-44.531	41.508
25	-16.592	16.592	-41.508	38.189
26	-18.063	18.063	-38.189	34.577
27	-18.790	18.790	-34.577	30.819
28	-18.921	18.921	-30.819	27.035
29	-18.592	18.592	-27.035	23.316
30	-17.844	17.844	-23.316	19.747
31	-16.733	16.733	-19.747	16.401
32	-15.373	15.373	-16.401	13.326
33	-13.863	13.863	-13.326	10.554
34	-12.280	12.280	-10.554	8.0978
35	-10.689	10.689	-8.0978	5.9599
36	-9.1390	9.1390	-5.9599	4.1321
37	-7.6662	7.6662	-4.1321	2.5989
38	-6.2969	6.2969	-2.5989	1.3395
39	-5.0480	5.0480	-1.3395	0.32992
40	-3.9289	3.9289	-0.32992	-0.45586
41	-2.9433	2.9433	0.45586	-1.0445
42	-2.0898	2.0898	1.0445	-1.4625
43	-1.3635	1.3635	1.4625	-1.7352
44	-0.75710	0.75710	1.7352	-1.8866
45	-0.26123	0.26123	1.8866	-1.9388
46	0.13432	-0.13432	1.9388	-1.9120
47	0.44030	-0.44030	1.9120	-1.8239
48	0.66739	-0.66739	1.8239	-1.6904
49	0.82592	-0.82592	1.6904	-1.5253
50	0.92553	-0.92553	1.5253	-1.3402
51	0.97498	-0.97498	1.3402	-1.1452
52	0.98205	-0.98205	1.1452	-0.94876
53	0.95342	-0.95342	0.94876	-0.75807
54	0.89468	-0.89468	0.75807	-0.57914
55	0.81033	-0.81033	0.57914	-0.41707
56	0.70386	-0.70386	0.41707	-0.27630
57	0.57782	-0.57782	0.27630	-0.16074
58	0.43395	-0.43395	0.16074	-7.39478E-02
59	0.27330	-0.27330	7.39478E-02	-1.92875E-02
60	9.64326E-02	-9.64326E-02	1.92875E-02	2.91064E-13

ITER 0 RNORM =0.1751E+05 RMNORM= 0.000  
RINORM=0.7158E+05 RIMNOR=0.8638E+05  
RENORM=0.2150E+05 REMNOR=0.2992E-21 RATIO =0.5480 TOLER =0.1000E-03 NOT CONVERGED  
RFMAX = 105.0 RMMAX = 64.44  
RTSMAL=0.1000E-02 RMSMAL=0.1000E-03  
RDT =0.7158E+05 RDR =0.8638E+05  
RATIOT=0.5480 RATOR= 0.000  
MAX UN= 71.83 IEQ= 31 NODE 16 DOF 1 Y-DISPL.F



MIN UN=-102.8 IEQ= 33 NODE 17 DOF 1 Y-DISPL.F  
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 2 RNORM =0.1751E+05 RMNORM= 0.000  
RINORM=0.7158E+05 RIMNOR=0.8638E+05  
RENORM=0.1729E-18 REMNOR=0.5039E-21 RATIO =0.1554E-11 TOLER =0.1000E-03 CONVERGED !  
RFMAX = 105.0 RMMAX = 64.44  
RTSMAL=0.1000E-02 RMSMAL=0.1000E-03  
RDT =0.7158E+05 RDR =0.8638E+05  
RATIOT=0.1554E-11 RATIOOR= 0.000  
MAX UN=0.2275E-09 IEQ= 7 NODE 4 DOF 1 Y-DISPL.F  
MIN UN=-.1457E-09 IEQ= 13 NODE 7 DOF 1 Y-DISPL.F  
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
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|          NewProject.BaseDesignSection_28.Nominal_63  |
|          Exe Time :24 May 2018          18:23:40    |
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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	3.0099167E-03	-7.7671053E-04	
2	2.8545746E-03	-7.7671053E-04	
3	2.6992352E-03	-7.7666944E-04	
4	2.5439182E-03	-7.7645723E-04	
5	2.3886788E-03	-7.7584756E-04	
6	2.2336273E-03	-7.7451616E-04	
7	2.0789487E-03	-7.7203983E-04	
8	1.9249224E-03	-7.6789812E-04	
9	1.7719415E-03	-7.6147555E-04	
10	1.6205316E-03	-7.5206211E-04	
11	1.4713696E-03	-7.3885437E-04	
12	1.3253025E-03	-7.2095695E-04	
13	1.1833652E-03	-6.9738407E-04	
14	1.0467988E-03	-6.6706181E-04	
15	9.1706773E-04	-6.2883085E-04	
16	7.9587643E-04	-5.8145049E-04	
17	6.8518474E-04	-5.2360377E-04	
18	5.8671240E-04	-4.6158640E-04	
19	5.0041247E-04	-4.0163473E-04	
20	4.2602025E-04	-3.4225695E-04	
21	3.6357384E-04	-2.8192144E-04	
22	3.1302766E-04	-2.2495109E-04	
23	2.7307358E-04	-1.7577812E-04	
24	2.4227372E-04	-1.3324550E-04	
25	2.1938613E-04	-9.6551689E-05	
26	2.0329671E-04	-6.5202974E-05	
27	1.9297106E-04	-3.8863089E-05	
28	1.8743987E-04	-1.7198096E-05	
29	1.8580520E-04	1.6743745E-07	
30	1.8724680E-04	1.3632305E-05	
31	1.9102553E-04	2.3608363E-05	
32	1.9648558E-04	3.0516478E-05	
33	2.0305563E-04	3.4777660E-05	
34	2.1024747E-04	3.6801119E-05	
35	2.1765280E-04	3.6975326E-05	
36	2.2493839E-04	3.5661377E-05	
37	2.3184005E-04	3.3188542E-05	
38	2.3815616E-04	2.9851584E-05	
39	2.4374036E-04	2.5909715E-05	
40	2.4849463E-04	2.1586665E-05	
41	2.5236224E-04	1.7071771E-05	
42	2.5532100E-04	1.2521793E-05	
43	2.5737705E-04	8.0632451E-06	
44	2.5855899E-04	3.7950916E-06	
45	2.5891273E-04	-2.0835496E-07	
46	2.5849680E-04	-3.8945516E-06	
47	2.5737832E-04	-7.2296754E-06	
48	2.5562952E-04	-1.0195883E-05	
49	2.5332486E-04	-1.2788634E-05	
50	2.5053856E-04	-1.5014238E-05	
51	2.4734266E-04	-1.6887695E-05	
52	2.4380542E-04	-1.8430712E-05	
53	2.3999073E-04	-1.9669862E-05	
54	2.3595589E-04	-2.0635613E-05	
55	2.3175254E-04	-2.1360610E-05	
56	2.2742542E-04	-2.1879036E-05	
57	2.2301237E-04	-2.2225810E-05	
58	2.1854420E-04	-2.2436042E-05	
59	2.1404473E-04	-2.2544650E-05	
60	2.0953082E-04	-2.2586118E-05	
61	2.0501227E-04	-2.2594344E-05	

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION *Build date:Jul 11, 2017*          |
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|          NewProject.BaseDesignSection_28.Nominal_63          |
|          Exe Time :24 May 2018          18:23:40          |
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New Project

STRESS RESULTS FOR GROUP NO. 1

0\_L  
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 61  
CURRENT TIME IS 5.0000

HARDENING 2D SOIL ELEMENT

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

EL * FACTOR	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
1 D	0.000	-3.0099E-03	0.000	0.000	0.000	0.000	ACTIVE	0.000	0.000	0.000	
1.000	1.000	0.000	0.000	0.000	Ug5_2_8_L_0						
2 D	0.5617	-2.8546E-03	2.514	1.209	2.514	4.391	UL-RL	6.2051E+04	-0.2000	1.600	
1.000	1.000	2.809	0.000	0.000	Ug5_2_8_L_0						
3 D	1.216	-2.6992E-03	5.401	2.881	5.401	7.857	UL-RL	6.2051E+04	-0.4000	3.200	
1.000	1.000	6.081	0.000	0.000	Ug5_2_8_L_0						
4 D	1.878	-2.5439E-03	8.442	4.591	8.442	10.57	UL-RL	6.2051E+04	-0.6000	4.800	
1.000	1.000	9.391	0.000	0.000	Ug5_2_8_L_0						
5 D	2.555	-2.3887E-03	11.79	6.375	11.79	12.90	UL-RL	6.2051E+04	-0.8000	6.400	
1.000	1.000	12.78	0.000	0.000	Ug5_2_8_L_0						
6 D	3.231	-2.2336E-03	15.14	8.155	15.14	15.05	UL-RL	6.2051E+04	-1.0000	8.000	
1.000	1.000	16.16	0.000	0.000	Ug5_2_8_L_0						
7 D	3.884	-2.0789E-03	18.06	9.822	18.06	17.09	UL-RL	6.2051E+04	-1.2000	9.600	
1.000	1.000	19.42	0.000	0.000	Ug5_2_8_L_0						
8 D	4.530	-1.9249E-03	20.90	11.45	20.90	19.05	UL-RL	6.2051E+04	-1.4000	11.20	
1.000	1.000	22.65	0.000	0.000	Ug5_2_8_L_0						
9 D	5.177	-1.7719E-03	23.83	13.08	23.83	20.96	UL-RL	6.2051E+04	-1.6000	12.80	
1.000	1.000	25.88	0.000	0.000	Ug5_2_8_L_0						
10 D	5.808	-1.6205E-03	26.58	14.64	26.58	22.80	UL-RL	6.2051E+04	-1.8000	14.40	
1.000	1.000	29.04	0.000	0.000	Ug5_2_8_L_0						
11 D	6.434	-1.4714E-03	29.44	16.17	29.44	24.58	UL-RL	6.2051E+04	-2.0000	16.00	
1.000	1.000	32.17	0.000	0.000	Ug5_2_8_L_0						
12 D	7.043	-1.3253E-03	32.17	17.61	32.17	26.31	UL-RL	6.2051E+04	-2.2000	17.60	
1.000	1.000	35.21	0.000	0.000	Ug5_2_8_L_0						
13 D	7.640	-1.1834E-03	35.00	19.00	35.00	27.98	UL-RL	6.2051E+04	-2.4000	19.20	
1.000	1.000	38.20	0.000	0.000	Ug5_2_8_L_0						
14 D	8.210	-1.0468E-03	37.74	20.25	37.74	29.60	UL-RL	6.2051E+04	-2.6000	20.80	
1.000	1.000	41.05	0.000	0.000	Ug5_2_8_L_0						
15 D	8.753	-9.1707E-04	40.57	21.36	40.57	31.16	UL-RL	6.2051E+04	-2.8000	22.40	
1.000	1.000	43.76	0.000	0.000	Ug5_2_8_L_0						
16 D	9.248	-7.9588E-04	43.33	22.24	43.33	32.68	UL-RL	6.2051E+04	-3.0000	24.00	
1.000	1.000	46.24	0.000	0.000	Ug5_2_8_L_0						
17 D	9.686	-6.8518E-04	46.17	22.83	46.17	34.14	UL-RL	6.2051E+04	-3.2000	25.60	
1.000	1.000	48.43	0.000	0.000	Ug5_2_8_L_0						
18 D	10.05	-5.8671E-04	48.95	23.04	48.95	35.55	UL-RL	6.2051E+04	-3.4000	27.20	
1.000	1.000	50.24	0.000	0.000	Ug5_2_8_L_0						
19 D	10.35	-5.0041E-04	51.73	22.94	51.73	36.92	UL-RL	6.2051E+04	-3.6000	28.80	
1.000	1.000	51.74	0.000	0.000	Ug5_2_8_L_0						
20 D	10.60	-4.2602E-04	54.59	22.58	54.59	38.25	UL-RL	6.2051E+04	-3.8000	30.40	
1.000	1.000	52.98	0.000	0.000	Ug5_2_8_L_0						
21 D	10.79	-3.6357E-04	57.38	21.96	57.38	39.53	UL-RL	6.2051E+04	-4.0000	32.00	
1.000	1.000	53.96	0.000	0.000	Ug5_2_8_L_0						
22 D	11.12	-3.1303E-04	60.24	21.98	60.24	40.78	UL-RL	6.2051E+04	-4.2000	33.60	
1.000	1.000	55.58	0.000	0.000	Ug5_2_8_L_0						
23 D	11.42	-2.7307E-04	63.04	21.91	63.04	42.00	UL-RL	6.2051E+04	-4.4000	35.20	
1.000	1.000	57.11	0.000	0.000	Ug5_2_8_L_0						
24 D	11.70	-2.4227E-04	65.89	21.71	65.89	43.18	UL-RL	6.2051E+04	-4.6000	36.80	
1.000	1.000	58.51	0.000	0.000	Ug5_2_8_L_0						
25 D	11.96	-2.1939E-04	68.69	21.41	68.69	44.33	UL-RL	6.2051E+04	-4.8000	38.40	
1.000	1.000	59.81	0.000	0.000	Ug5_2_8_L_0						
26 D	12.32	-2.0330E-04	71.49	21.60	71.49	45.46	UL-RL	6.2051E+04	-5.0000	40.00	
1.000	1.000	61.60	0.000	0.000	Ug5_2_8_L_0						
27 D	13.43	-1.9297E-04	74.12	25.54	74.12	46.56	UL-RL	6.2051E+04	-5.2000	41.60	
1.000	1.000	67.14	0.000	0.000	Ug5_2_8_L_0						
28 D	14.40	-1.8744E-04	76.75	28.80	76.75	47.64	UL-RL	6.2051E+04	-5.4000	43.20	
1.000	1.000	72.00	0.000	0.000	Ug5_2_8_L_0						
29 D	15.25	-1.8581E-04	79.39	31.47	79.39	48.70	UL-RL	6.2051E+04	-5.6000	44.80	
1.000	1.000	76.27	0.000	0.000	Ug5_2_8_L_0						
30 D	16.01	-1.8725E-04	82.03	33.65	82.03	49.74	UL-RL	6.2051E+04	-5.8000	46.40	
1.000	1.000	80.05	0.000	0.000	Ug5_2_8_L_0						
31 D	16.68	-1.9103E-04	84.67	35.41	84.67	50.76	UL-RL	6.2051E+04	-6.0000	48.00	
1.000	1.000	83.41	0.000	0.000	Ug5_2_8_L_0						
32 D	17.29	-1.9649E-04	87.31	36.85	87.31	51.77	UL-RL	6.2051E+04	-6.2000	49.60	
1.000	1.000	86.45	0.000	0.000	Ug5_2_8_L_0						
33 D	17.84	-2.0306E-04	89.95	38.02	89.95	52.76	UL-RL	6.2051E+04	-6.4000	51.20	

1.000	1.000	89.22	0.000	0.000	Ug5_2_8_L_0					
34 D	18.36	-2.1025E-04	92.83	38.99	92.83	53.74	UL-RL	6.2051E+04	-6.600	52.80
1.000	1.000	91.79	0.000	0.000	Ug5_2_8_L_0					
35 D	18.84	-2.1765E-04	95.61	39.82	95.61	54.71	UL-RL	6.2051E+04	-6.800	54.40
1.000	1.000	94.22	0.000	0.000	Ug5_2_8_L_0					
36 D	19.31	-2.2494E-04	98.95	40.55	98.95	55.67	UL-RL	6.2051E+04	-7.000	56.00
1.000	1.000	96.55	0.000	0.000	Ug5_2_8_L_0					
37 D	19.77	-2.3184E-04	101.7	41.23	101.7	56.61	UL-RL	6.2051E+04	-7.200	57.60
1.000	1.000	98.83	0.000	0.000	Ug5_2_8_L_0					
38 D	20.22	-2.3816E-04	105.0	41.89	105.0	57.55	UL-RL	6.2051E+04	-7.400	59.20
1.000	1.000	101.1	0.000	0.000	Ug5_2_8_L_0					
39 D	20.67	-2.4374E-04	107.7	42.55	107.7	58.49	UL-RL	6.2051E+04	-7.600	60.80
1.000	1.000	103.4	0.000	0.000	Ug5_2_8_L_0					
40 D	21.13	-2.4849E-04	110.9	43.24	110.9	59.41	UL-RL	6.2051E+04	-7.800	62.40
1.000	1.000	105.6	0.000	0.000	Ug5_2_8_L_0					
41 D	21.59	-2.5236E-04	114.1	43.96	114.1	60.33	UL-RL	6.2051E+04	-8.000	64.00
1.000	1.000	108.0	0.000	0.000	Ug5_2_8_L_0					
42 D	22.07	-2.5532E-04	116.8	44.73	116.8	61.24	UL-RL	6.2051E+04	-8.200	65.60
1.000	1.000	110.3	0.000	0.000	Ug5_2_8_L_0					
43 D	22.55	-2.5738E-04	119.9	45.57	119.9	62.15	UL-RL	6.2051E+04	-8.400	67.20
1.000	1.000	112.8	0.000	0.000	Ug5_2_8_L_0					
44 D	23.05	-2.5856E-04	122.5	46.46	122.5	63.06	UL-RL	6.2051E+04	-8.600	68.80
1.000	1.000	115.3	0.000	0.000	Ug5_2_8_L_0					
45 D	23.56	-2.5891E-04	125.6	47.41	125.6	63.96	UL-RL	6.2051E+04	-8.800	70.40
1.000	1.000	117.8	0.000	0.000	Ug5_2_8_L_0					
46 D	24.09	-2.5850E-04	128.3	48.43	128.3	64.86	UL-RL	6.2051E+04	-9.000	72.00
1.000	1.000	120.4	0.000	0.000	Ug5_2_8_L_0					
47 D	24.62	-2.5738E-04	131.3	49.50	131.3	65.75	UL-RL	6.2051E+04	-9.200	73.60
1.000	1.000	123.1	0.000	0.000	Ug5_2_8_L_0					
48 D	25.17	-2.5563E-04	133.9	50.63	133.9	66.64	UL-RL	6.2051E+04	-9.400	75.20
1.000	1.000	125.8	0.000	0.000	Ug5_2_8_L_0					
49 D	25.72	-2.5332E-04	136.9	51.81	136.9	67.53	UL-RL	6.2051E+04	-9.600	76.80
1.000	1.000	128.6	0.000	0.000	Ug5_2_8_L_0					
50 D	26.29	-2.5054E-04	139.5	53.03	139.5	68.42	UL-RL	6.2051E+04	-9.800	78.40
1.000	1.000	131.4	0.000	0.000	Ug5_2_8_L_0					
51 D	26.86	-2.4734E-04	142.5	54.29	142.5	69.31	UL-RL	6.2051E+04	-10.000	80.00
1.000	1.000	134.3	0.000	0.000	Ug5_2_8_L_0					
52 D	27.44	-2.4381E-04	145.1	55.59	145.1	70.19	UL-RL	6.2051E+04	-10.200	81.60
1.000	1.000	137.2	0.000	0.000	Ug5_2_8_L_0					
53 D	28.02	-2.3999E-04	148.1	56.91	148.1	71.08	UL-RL	6.2051E+04	-10.400	83.20
1.000	1.000	140.1	0.000	0.000	Ug5_2_8_L_0					
54 D	28.61	-2.3596E-04	151.0	58.25	151.0	71.96	UL-RL	6.2051E+04	-10.600	84.80
1.000	1.000	143.1	0.000	0.000	Ug5_2_8_L_0					
55 D	29.20	-2.3175E-04	153.6	59.62	153.6	72.85	UL-RL	6.2051E+04	-10.800	86.40
1.000	1.000	146.0	0.000	0.000	Ug5_2_8_L_0					
56 D	29.80	-2.2743E-04	156.5	60.99	156.5	73.73	UL-RL	6.2051E+04	-11.000	88.00
1.000	1.000	149.0	0.000	0.000	Ug5_2_8_L_0					
57 D	30.40	-2.2301E-04	159.1	62.38	159.1	74.61	UL-RL	6.2051E+04	-11.200	89.60
1.000	1.000	152.0	0.000	0.000	Ug5_2_8_L_0					
58 D	30.99	-2.1854E-04	162.0	63.77	162.0	75.50	UL-RL	6.2051E+04	-11.400	91.20
1.000	1.000	155.0	0.000	0.000	Ug5_2_8_L_0					
59 D	31.59	-2.1404E-04	164.5	65.17	164.5	76.38	UL-RL	6.2051E+04	-11.600	92.80
1.000	1.000	158.0	0.000	0.000	Ug5_2_8_L_0					
60 D	32.19	-2.0953E-04	167.4	66.56	167.4	77.26	UL-RL	6.2051E+04	-11.800	94.40
1.000	1.000	161.0	0.000	0.000	Ug5_2_8_L_0					
61 D	16.40	-2.0501E-04	169.9	67.96	169.9	78.15	UL-RL	6.2051E+04	-12.000	96.00
1.000	1.000	164.0	0.000	0.000	Ug5_2_8_L_0					

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|                PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*                |
|                                                                                                                                            |
|                                                                                                                                            |
|                NewProject.BaseDesignSection_28.Nominal_63                                                                              |
|                Exe Time :24 May 2018  18:23:40                                                                                          |
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New Project

STRESS RESULTS FOR GROUP NO. 2

0\_R :  
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 61  
CURRENT TIME IS 5.0000

HARDENING 2D SOIL ELEMENT

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

EL * FACTOR	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
1	0.000	--	--	--	--	--	REMOVED	--	0.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
2	0.000	--	--	--	--	--	REMOVED	--	-0.2000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
3	0.000	--	--	--	--	--	REMOVED	--	-0.4000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
4	0.000	--	--	--	--	--	REMOVED	--	-0.6000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
5	0.000	--	--	--	--	--	REMOVED	--	-0.8000	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	--	-1.200	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
8	0.000	--	--	--	--	--	REMOVED	--	-1.400	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
9	0.000	--	--	--	--	--	REMOVED	--	-1.600	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
10	0.000	--	--	--	--	--	REMOVED	--	-1.800	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
11	0.000	--	--	--	--	--	REMOVED	--	-2.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
12	0.000	--	--	--	--	--	REMOVED	--	-2.200	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
13	0.000	--	--	--	--	--	REMOVED	--	-2.400	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
14	0.000	--	--	--	--	--	REMOVED	--	-2.600	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
15	0.000	--	--	--	--	--	REMOVED	--	-2.800	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
16	0.000	--	--	--	--	--	REMOVED	--	-3.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
17	0.000	--	--	--	--	--	REMOVED	--	-3.200	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
18	0.000	--	--	--	--	--	REMOVED	--	-3.400	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
19	0.000	--	--	--	--	--	REMOVED	--	-3.600	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
20	0.000	--	--	--	--	--	REMOVED	--	-3.800	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
21 D	0.000	3.6357E-04	0.000	0.000	40.00	46.62	ACTIVE	0.000	-4.000	0.000	
1.000	1.000	0.000	0.000	0.000	Ug5_2_8_L_0						
22 D	2.002	3.1303E-04	1.600	7.609	42.00	46.32	UL-RL	3.0850E+04	-4.200	2.400	
1.000	1.000	10.01	0.000	0.000	Ug5_2_8_L_0						
23 D	4.717	2.7307E-04	3.200	18.79	44.00	46.16	UL-RL	3.0850E+04	-4.400	4.800	
1.000	1.000	23.59	0.000	0.000	Ug5_2_8_L_0						
24 D	7.447	2.4227E-04	4.800	30.04	46.00	46.12	UL-RL	3.0850E+04	-4.600	7.200	
1.000	1.000	37.24	0.000	0.000	Ug5_2_8_L_0						
25 D	9.466	2.1939E-04	6.400	37.73	48.00	46.21	UL-RL	3.0850E+04	-4.800	9.600	
1.000	1.000	47.33	0.000	0.000	Ug5_2_8_L_0						
26 D	10.22	2.0330E-04	8.000	39.08	50.00	46.43	UL-RL	3.0850E+04	-5.000	12.00	
1.000	1.000	51.08	0.000	0.000	Ug5_2_8_L_0						
27 D	10.97	1.9297E-04	9.600	40.45	52.00	46.75	UL-RL	3.0850E+04	-5.200	14.40	
1.000	1.000	54.85	0.000	0.000	Ug5_2_8_L_0						
28 D	11.72	1.8744E-04	11.20	41.82	54.00	47.17	UL-RL	3.0850E+04	-5.400	16.80	
1.000	1.000	58.62	0.000	0.000	Ug5_2_8_L_0						
29 D	12.48	1.8581E-04	12.80	43.19	56.00	47.69	UL-RL	3.0850E+04	-5.600	19.20	
1.000	1.000	62.39	0.000	0.000	Ug5_2_8_L_0						
30 D	13.16	1.8725E-04	14.40	44.18	58.00	48.48	UL-RL	3.0850E+04	-5.800	21.60	
1.000	1.000	65.78	0.000	0.000	Ug5_2_8_L_0						
31 D	13.78	1.9103E-04	16.00	44.92	60.00	49.46	UL-RL	3.0850E+04	-6.000	24.00	
1.000	1.000	68.92	0.000	0.000	Ug5_2_8_L_0						
32 D	14.43	1.9649E-04	17.60	45.77	62.00	50.42	UL-RL	3.0850E+04	-6.200	26.40	
1.000	1.000	72.17	0.000	0.000	Ug5_2_8_L_0						
33 D	15.10	2.0306E-04	19.20	46.72	64.00	51.37	UL-RL	3.0850E+04	-6.400	28.80	

1.000	1.000	75.52	0.000	0.000	Ug5_2_8_L_0					
34 D	15.79	2.1025E-04	20.80	47.73	66.00	52.31	UL-RL	3.0850E+04	-6.600	31.20
1.000	1.000	78.93	0.000	0.000	Ug5_2_8_L_0					
35 D	16.48	2.1765E-04	22.40	48.79	68.00	53.23	UL-RL	3.0850E+04	-6.800	33.60
1.000	1.000	82.39	0.000	0.000	Ug5_2_8_L_0					
36 D	17.17	2.2494E-04	24.00	49.87	70.00	54.14	UL-RL	3.0850E+04	-7.000	36.00
1.000	1.000	85.87	0.000	0.000	Ug5_2_8_L_0					
37 D	17.87	2.3184E-04	25.60	50.96	72.00	55.05	UL-RL	3.0850E+04	-7.200	38.40
1.000	1.000	89.36	0.000	0.000	Ug5_2_8_L_0					
38 D	18.57	2.3816E-04	27.20	52.04	74.00	55.95	UL-RL	3.0850E+04	-7.400	40.80
1.000	1.000	92.84	0.000	0.000	Ug5_2_8_L_0					
39 D	19.26	2.4374E-04	28.80	53.11	76.00	56.83	UL-RL	3.0850E+04	-7.600	43.20
1.000	1.000	96.30	0.000	0.000	Ug5_2_8_L_0					
40 D	19.95	2.4849E-04	30.40	54.14	78.00	57.72	UL-RL	3.0850E+04	-7.800	45.60
1.000	1.000	99.74	0.000	0.000	Ug5_2_8_L_0					
41 D	20.63	2.5236E-04	32.00	55.14	80.00	58.59	UL-RL	3.0850E+04	-8.000	48.00
1.000	1.000	103.1	0.000	0.000	Ug5_2_8_L_0					
42 D	21.30	2.5532E-04	33.60	56.10	82.00	59.46	UL-RL	3.0850E+04	-8.200	50.40
1.000	1.000	106.5	0.000	0.000	Ug5_2_8_L_0					
43 D	21.97	2.5738E-04	35.20	57.03	84.00	60.33	UL-RL	3.0850E+04	-8.400	52.80
1.000	1.000	109.8	0.000	0.000	Ug5_2_8_L_0					
44 D	22.62	2.5856E-04	36.80	57.91	86.00	61.19	UL-RL	3.0850E+04	-8.600	55.20
1.000	1.000	113.1	0.000	0.000	Ug5_2_8_L_0					
45 D	23.27	2.5891E-04	38.40	58.76	88.00	62.05	UL-RL	3.0850E+04	-8.800	57.60
1.000	1.000	116.4	0.000	0.000	Ug5_2_8_L_0					
46 D	23.91	2.5850E-04	40.00	59.57	90.00	62.90	UL-RL	3.0850E+04	-9.000	60.00
1.000	1.000	119.6	0.000	0.000	Ug5_2_8_L_0					
47 D	24.55	2.5738E-04	41.60	60.34	92.00	63.75	UL-RL	3.0850E+04	-9.200	62.40
1.000	1.000	122.7	0.000	0.000	Ug5_2_8_L_0					
48 D	25.18	2.5563E-04	43.20	61.08	94.00	64.60	UL-RL	3.0850E+04	-9.400	64.80
1.000	1.000	125.9	0.000	0.000	Ug5_2_8_L_0					
49 D	25.80	2.5332E-04	44.80	61.79	96.00	65.45	UL-RL	3.0850E+04	-9.600	67.20
1.000	1.000	129.0	0.000	0.000	Ug5_2_8_L_0					
50 D	26.41	2.5054E-04	46.40	62.47	98.00	66.29	UL-RL	3.0850E+04	-9.800	69.60
1.000	1.000	132.1	0.000	0.000	Ug5_2_8_L_0					
51 D	27.03	2.4734E-04	48.00	63.13	100.00	67.13	UL-RL	3.0850E+04	-10.000	72.00
1.000	1.000	135.1	0.000	0.000	Ug5_2_8_L_0					
52 D	27.63	2.4381E-04	49.60	63.77	102.0	67.98	UL-RL	3.0850E+04	-10.200	74.40
1.000	1.000	138.2	0.000	0.000	Ug5_2_8_L_0					
53 D	28.24	2.3999E-04	51.20	64.40	104.0	68.82	UL-RL	3.0850E+04	-10.400	76.80
1.000	1.000	141.2	0.000	0.000	Ug5_2_8_L_0					
54 D	28.84	2.3596E-04	52.80	65.00	106.0	69.66	UL-RL	3.0850E+04	-10.600	79.20
1.000	1.000	144.2	0.000	0.000	Ug5_2_8_L_0					
55 D	29.44	2.3175E-04	54.40	65.60	108.0	70.50	UL-RL	3.0850E+04	-10.800	81.60
1.000	1.000	147.2	0.000	0.000	Ug5_2_8_L_0					
56 D	30.04	2.2743E-04	56.00	66.19	110.0	71.34	UL-RL	3.0850E+04	-11.000	84.00
1.000	1.000	150.2	0.000	0.000	Ug5_2_8_L_0					
57 D	30.64	2.2301E-04	57.60	66.78	112.0	72.18	UL-RL	3.0850E+04	-11.200	86.40
1.000	1.000	153.2	0.000	0.000	Ug5_2_8_L_0					
58 D	31.23	2.1854E-04	59.20	67.36	114.0	73.02	UL-RL	3.0850E+04	-11.400	88.80
1.000	1.000	156.2	0.000	0.000	Ug5_2_8_L_0					
59 D	31.83	2.1404E-04	60.80	67.94	116.0	73.86	UL-RL	3.0850E+04	-11.600	91.20
1.000	1.000	159.1	0.000	0.000	Ug5_2_8_L_0					
60 D	32.42	2.0953E-04	62.40	68.51	118.0	74.70	UL-RL	3.0850E+04	-11.800	93.60
1.000	1.000	162.1	0.000	0.000	Ug5_2_8_L_0					
61 D	16.51	2.0501E-04	64.00	69.09	120.0	75.54	UL-RL	3.0850E+04	-12.000	96.00
1.000	1.000	165.1	0.000	0.000	Ug5_2_8_L_0					



MIN UN=-100.8 IEQ= 41 NODE 21 DOF 1 Y-DISPL.F  
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 2 RNORM =0.3480E+05 RMNORM= 0.000  
RINORM=0.1084E+06 RIMNOR=0.1338E+06  
RENORM= 2.051 REMNOR=0.6779E-21 RATIO =0.4350E-02 TOLER =0.1000E-03 NOT CONVERGED  
RFMAX = 181.0 RMMAX = 86.70  
RTSMAL=0.1000E-02 RMSMAL=0.1000E-03  
RDT =0.1084E+06 RDR =0.1338E+06  
RATIOT=0.4350E-02 RATIO= 0.000  
MAX UN=0.8830 IEQ= 3 NODE 2 DOF 1 Y-DISPL.F  
MIN UN=-.5486E-10 IEQ= 25 NODE 13 DOF 1 Y-DISPL.F  
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 3 RNORM =0.3480E+05 RMNORM= 0.000  
RINORM=0.1084E+06 RIMNOR=0.1338E+06  
RENORM=0.7207 REMNOR=0.6709E-21 RATIO =0.2578E-02 TOLER =0.1000E-03 NOT CONVERGED  
RFMAX = 181.0 RMMAX = 86.70  
RTSMAL=0.1000E-02 RMSMAL=0.1000E-03  
RDT =0.1084E+06 RDR =0.1338E+06  
RATIOT=0.2578E-02 RATIO= 0.000  
MAX UN=0.6925 IEQ= 17 NODE 9 DOF 1 Y-DISPL.F  
MIN UN=-.8230E-10 IEQ= 27 NODE 14 DOF 1 Y-DISPL.F  
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 4 RNORM =0.3480E+05 RMNORM= 0.000  
RINORM=0.1084E+06 RIMNOR=0.1338E+06  
RENORM=0.5262E-01 REMNOR=0.1870E-21 RATIO =0.6966E-03 TOLER =0.1000E-03 NOT CONVERGED  
RFMAX = 181.0 RMMAX = 86.70  
RTSMAL=0.1000E-02 RMSMAL=0.1000E-03  
RDT =0.1084E+06 RDR =0.1338E+06  
RATIOT=0.6966E-03 RATIO= 0.000  
MAX UN=0.2294 IEQ= 23 NODE 12 DOF 1 Y-DISPL.F  
MIN UN=-.9592E-10 IEQ= 17 NODE 9 DOF 1 Y-DISPL.F  
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 5 RNORM =0.3480E+05 RMNORM= 0.000  
RINORM=0.1084E+06 RIMNOR=0.1338E+06  
RENORM=0.5658E-05 REMNOR=0.9989E-21 RATIO =0.7224E-05 TOLER =0.1000E-03 CONVERGED !  
RFMAX = 181.0 RMMAX = 86.70  
RTSMAL=0.1000E-02 RMSMAL=0.1000E-03  
RDT =0.1084E+06 RDR =0.1338E+06  
RATIOT=0.7224E-05 RATIO= 0.000  
MAX UN=0.2379E-02 IEQ= 25 NODE 13 DOF 1 Y-DISPL.F  
MIN UN=-.2696E-09 IEQ= 7 NODE 4 DOF 1 Y-DISPL.F  
NO. OF CONTACT CONSTRAINT VIOLATIONS 0



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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
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New Project
SOLUTION REACHED USING      5 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   6   ( AT TIME   6.000   )

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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	3.3467070E-03	-8.2285776E-04	
2	3.1821355E-03	-8.2285776E-04	
3	3.0175660E-03	-8.2282658E-04	
4	2.8530132E-03	-8.2266934E-04	
5	2.6885173E-03	-8.2222554E-04	
6	2.5241573E-03	-8.2126734E-04	
7	2.3600645E-03	-8.1949854E-04	
8	2.1964361E-03	-8.1655600E-04	
9	2.0335488E-03	-8.1201158E-04	
10	1.8717712E-03	-8.0537207E-04	
11	1.7115769E-03	-7.9607950E-04	
12	1.5535577E-03	-7.8351148E-04	
13	1.3984364E-03	-7.6698122E-04	
14	1.2470795E-03	-7.4573780E-04	
15	1.1005112E-03	-7.1894663E-04	
16	9.5993314E-04	-6.8567058E-04	
17	8.2674379E-04	-6.4487194E-04	
18	7.0256079E-04	-5.9541683E-04	
19	5.8923590E-04	-5.3607907E-04	
20	4.8887539E-04	-4.6554783E-04	
21	4.0385589E-04	-3.8243595E-04	
22	3.3595453E-04	-2.9852789E-04	
23	2.8371645E-04	-2.2554416E-04	
24	2.4511420E-04	-1.6190039E-04	
25	2.1844295E-04	-1.0595667E-04	
26	2.0233060E-04	-5.6027015E-05	
27	1.9552629E-04	-1.3685579E-05	
28	1.9624045E-04	1.9416537E-05	
29	2.0277264E-04	4.4714616E-05	
30	2.1368557E-04	6.3401779E-05	
31	2.2775477E-04	7.6410321E-05	
32	2.4392320E-04	8.4522654E-05	
33	2.6128715E-04	8.8485887E-05	
34	2.7908775E-04	8.9002010E-05	
35	2.9670142E-04	8.6720095E-05	
36	3.1362864E-04	8.2230998E-05	
37	3.2948192E-04	7.6064550E-05	
38	3.4397375E-04	6.8688593E-05	
39	3.5690384E-04	6.0509987E-05	
40	3.6814742E-04	5.1876639E-05	
41	3.7764366E-04	4.3080673E-05	
42	3.8538487E-04	3.4362308E-05	
43	3.9140660E-04	2.5914215E-05	
44	3.9577856E-04	1.7886154E-05	
45	3.9859649E-04	1.0389750E-05	
46	3.9997509E-04	3.5030379E-06	
47	4.0004163E-04	-2.7247709E-06	
48	3.9893074E-04	-8.2691461E-06	
49	3.9677979E-04	-1.3126217E-05	
50	3.9372521E-04	-1.7309125E-05	
51	3.8989930E-04	-2.0844855E-05	
52	3.8542777E-04	-2.3771327E-05	
53	3.8042846E-04	-2.6134644E-05	
54	3.7500817E-04	-2.7987879E-05	
55	3.6926349E-04	-2.9388354E-05	
56	3.6327896E-04	-3.0396848E-05	
57	3.5712668E-04	-3.1076409E-05	
58	3.5086602E-04	-3.1491564E-05	
59	3.4454332E-04	-3.1707764E-05	
60	3.3819178E-04	-3.1791022E-05	
61	3.3183103E-04	-3.1807694E-05	

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|                PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*                |
|                                                                                                                                            |
|                                                                                                                                            |
|                NewProject.BaseDesignSection_28.Nominal_63                                                                              |
|                Exe Time :24 May 2018      18:23:40                                                                              |
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New Project

STRESS RESULTS FOR GROUP NO. 1

0\_L  
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 61  
CURRENT TIME IS 6.0000

HARDENING 2D SOIL ELEMENT

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

EL * FACTOR	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
1 D	0.000	-3.3467E-03	0.000	0.000	0.000	0.000	ACTIVE	0.000	0.000	0.000	
1.000	1.000	0.000	0.000	0.000	Ug5_2_8_L_0						
2 D	0.4262	-3.1821E-03	2.641	0.6575	2.641	4.391	ACTIVE	0.000	-0.2000	1.474	
1.000	1.000	2.131	0.000	0.000	Ug5_2_8_L_0						
3 D	0.8710	-3.0176E-03	5.653	1.408	5.653	7.857	ACTIVE	0.000	-0.4000	2.947	
1.000	1.000	4.355	0.000	0.000	Ug5_2_8_L_0						
4 D	1.323	-2.8530E-03	8.821	2.196	8.821	10.57	ACTIVE	0.000	-0.6000	4.421	
1.000	1.000	6.617	0.000	0.000	Ug5_2_8_L_0						
5 D	1.791	-2.6885E-03	12.29	3.061	12.29	12.90	ACTIVE	0.000	-0.8000	5.895	
1.000	1.000	8.956	0.000	0.000	Ug5_2_8_L_0						
6 D	2.259	-2.5242E-03	15.77	3.926	15.77	15.05	ACTIVE	0.000	-1.0000	7.368	
1.000	1.000	11.29	0.000	0.000	Ug5_2_8_L_0						
7 D	2.706	-2.3601E-03	18.82	4.686	18.82	17.09	ACTIVE	0.000	-1.2000	8.842	
1.000	1.000	13.53	0.000	0.000	Ug5_2_8_L_0						
8 D	3.148	-2.1964E-03	21.79	5.425	21.79	19.05	ACTIVE	0.000	-1.4000	10.32	
1.000	1.000	15.74	0.000	0.000	Ug5_2_8_L_0						
9 D	3.595	-2.0335E-03	24.84	6.186	24.84	20.96	ACTIVE	0.000	-1.6000	11.79	
1.000	1.000	17.98	0.000	0.000	Ug5_2_8_L_0						
10 D	4.033	-1.8718E-03	27.72	6.903	27.72	22.80	ACTIVE	0.000	-1.8000	13.26	
1.000	1.000	20.17	0.000	0.000	Ug5_2_8_L_0						
11 D	4.476	-1.7116E-03	30.70	7.645	30.70	24.58	ACTIVE	0.000	-2.0000	14.74	
1.000	1.000	22.38	0.000	0.000	Ug5_2_8_L_0						
12 D	4.913	-1.5536E-03	33.56	8.356	33.56	26.31	ACTIVE	0.000	-2.2000	16.21	
1.000	1.000	24.57	0.000	0.000	Ug5_2_8_L_0						
13 D	5.355	-1.3984E-03	36.52	9.093	36.52	27.98	ACTIVE	0.000	-2.4000	17.68	
1.000	1.000	26.78	0.000	0.000	Ug5_2_8_L_0						
14 D	6.057	-1.2471E-03	39.39	11.13	39.39	29.60	UL-RL	4.9641E+04	-2.6000	19.16	
1.000	1.000	30.29	0.000	0.000	Ug5_2_8_L_0						
15 D	6.755	-1.1005E-03	42.34	13.14	42.34	31.16	UL-RL	4.9641E+04	-2.8000	20.63	
1.000	1.000	33.77	0.000	0.000	Ug5_2_8_L_0						
16 D	7.430	-9.5993E-04	45.23	15.04	45.23	32.68	UL-RL	4.9641E+04	-3.0000	22.11	
1.000	1.000	37.15	0.000	0.000	Ug5_2_8_L_0						
17 D	8.078	-8.2674E-04	48.19	16.81	48.19	34.14	UL-RL	4.9641E+04	-3.2000	23.58	
1.000	1.000	40.39	0.000	0.000	Ug5_2_8_L_0						
18 D	8.683	-7.0256E-04	51.10	18.36	51.10	35.55	UL-RL	4.9641E+04	-3.4000	25.05	
1.000	1.000	43.42	0.000	0.000	Ug5_2_8_L_0						
19 D	9.238	-5.8924E-04	54.01	19.67	54.01	36.92	UL-RL	4.9641E+04	-3.6000	26.53	
1.000	1.000	46.19	0.000	0.000	Ug5_2_8_L_0						
20 D	9.733	-4.8888E-04	56.99	20.66	56.99	38.25	UL-RL	4.9641E+04	-3.8000	28.00	
1.000	1.000	48.66	0.000	0.000	Ug5_2_8_L_0						
21 D	10.14	-4.0386E-04	59.91	21.23	59.91	39.53	UL-RL	4.9641E+04	-4.0000	29.47	
1.000	1.000	50.70	0.000	0.000	Ug5_2_8_L_0						
22 D	10.62	-3.3595E-04	62.89	22.17	62.89	40.78	UL-RL	4.9641E+04	-4.2000	30.95	
1.000	1.000	53.12	0.000	0.000	Ug5_2_8_L_0						
23 D	11.04	-2.8372E-04	65.82	22.77	65.82	42.00	UL-RL	4.9641E+04	-4.4000	32.42	
1.000	1.000	55.19	0.000	0.000	Ug5_2_8_L_0						
24 D	11.38	-2.4511E-04	68.80	23.02	68.80	43.18	UL-RL	4.9641E+04	-4.6000	33.89	
1.000	1.000	56.91	0.000	0.000	Ug5_2_8_L_0						
25 D	11.67	-2.1844E-04	71.72	22.97	71.72	44.33	UL-RL	4.9641E+04	-4.8000	35.37	
1.000	1.000	58.34	0.000	0.000	Ug5_2_8_L_0						
26 D	12.01	-2.0233E-04	74.65	23.23	74.65	45.46	UL-RL	4.9641E+04	-5.0000	36.84	
1.000	1.000	60.07	0.000	0.000	Ug5_2_8_L_0						
27 D	13.07	-1.9553E-04	77.40	27.06	77.40	46.56	UL-RL	4.9641E+04	-5.2000	38.32	
1.000	1.000	65.37	0.000	0.000	Ug5_2_8_L_0						
28 D	13.97	-1.9624E-04	80.16	30.07	80.16	47.64	UL-RL	4.9641E+04	-5.4000	39.79	
1.000	1.000	69.86	0.000	0.000	Ug5_2_8_L_0						
29 D	14.73	-2.0277E-04	82.92	32.40	82.92	48.70	UL-RL	4.9641E+04	-5.6000	41.26	
1.000	1.000	73.66	0.000	0.000	Ug5_2_8_L_0						
30 D	15.38	-2.1369E-04	85.69	34.17	85.69	49.74	UL-RL	4.9641E+04	-5.8000	42.74	
1.000	1.000	76.91	0.000	0.000	Ug5_2_8_L_0						
31 D	15.94	-2.2775E-04	88.46	35.49	88.46	50.76	UL-RL	4.9641E+04	-6.0000	44.21	
1.000	1.000	79.70	0.000	0.000	Ug5_2_8_L_0						
32 D	16.43	-2.4392E-04	91.22	36.45	91.22	51.77	UL-RL	4.9641E+04	-6.2000	45.68	
1.000	1.000	82.13	0.000	0.000	Ug5_2_8_L_0						
33 D	16.86	-2.6129E-04	93.99	37.15	93.99	52.76	UL-RL	4.9641E+04	-6.4000	47.16	

1.000	1.000	84.31	0.000	0.000	Ug5_2_8_L_0					
34 D	17.26	-2.7909E-04	97.00	37.66	97.00	53.74	UL-RL	4.9641E+04	-6.600	48.63
1.000	1.000	86.29	0.000	0.000	Ug5_2_8_L_0					
35 D	17.63	-2.9670E-04	99.90	38.04	99.90	54.71	UL-RL	4.9641E+04	-6.800	50.11
1.000	1.000	88.15	0.000	0.000	Ug5_2_8_L_0					
36 D	17.99	-3.1363E-04	103.4	38.36	103.4	55.67	UL-RL	4.9641E+04	-7.000	51.58
1.000	1.000	89.94	0.000	0.000	Ug5_2_8_L_0					
37 D	18.34	-3.2948E-04	106.2	38.66	106.2	56.61	UL-RL	4.9641E+04	-7.200	53.05
1.000	1.000	91.71	0.000	0.000	Ug5_2_8_L_0					
38 D	18.70	-3.4397E-04	109.6	38.98	109.6	57.55	UL-RL	4.9641E+04	-7.400	54.53
1.000	1.000	93.50	0.000	0.000	Ug5_2_8_L_0					
39 D	19.07	-3.5690E-04	112.5	39.33	112.5	58.49	UL-RL	4.9641E+04	-7.600	56.00
1.000	1.000	95.33	0.000	0.000	Ug5_2_8_L_0					
40 D	19.45	-3.6815E-04	115.8	39.76	115.8	59.41	UL-RL	4.9641E+04	-7.800	57.47
1.000	1.000	97.23	0.000	0.000	Ug5_2_8_L_0					
41 D	19.84	-3.7764E-04	119.1	40.27	119.1	60.33	UL-RL	4.9641E+04	-8.000	58.95
1.000	1.000	99.21	0.000	0.000	Ug5_2_8_L_0					
42 D	20.26	-3.8538E-04	121.9	40.87	121.9	61.24	UL-RL	4.9641E+04	-8.200	60.42
1.000	1.000	101.3	0.000	0.000	Ug5_2_8_L_0					
43 D	20.69	-3.9141E-04	125.2	41.56	125.2	62.15	UL-RL	4.9641E+04	-8.400	61.89
1.000	1.000	103.5	0.000	0.000	Ug5_2_8_L_0					
44 D	21.15	-3.9578E-04	128.0	42.36	128.0	63.06	UL-RL	4.9641E+04	-8.600	63.37
1.000	1.000	105.7	0.000	0.000	Ug5_2_8_L_0					
45 D	21.62	-3.9860E-04	131.2	43.26	131.2	63.96	UL-RL	4.9641E+04	-8.800	64.84
1.000	1.000	108.1	0.000	0.000	Ug5_2_8_L_0					
46 D	22.11	-3.9998E-04	133.9	44.25	133.9	64.86	UL-RL	4.9641E+04	-9.000	66.32
1.000	1.000	110.6	0.000	0.000	Ug5_2_8_L_0					
47 D	22.62	-4.0004E-04	137.1	45.33	137.1	65.75	UL-RL	4.9641E+04	-9.200	67.79
1.000	1.000	113.1	0.000	0.000	Ug5_2_8_L_0					
48 D	23.15	-3.9893E-04	139.9	46.48	139.9	66.64	UL-RL	4.9641E+04	-9.400	69.26
1.000	1.000	115.7	0.000	0.000	Ug5_2_8_L_0					
49 D	23.69	-3.9678E-04	143.0	47.72	143.0	67.53	UL-RL	4.9641E+04	-9.600	70.74
1.000	1.000	118.5	0.000	0.000	Ug5_2_8_L_0					
50 D	24.25	-3.9373E-04	145.7	49.02	145.7	68.42	UL-RL	4.9641E+04	-9.800	72.21
1.000	1.000	121.2	0.000	0.000	Ug5_2_8_L_0					
51 D	24.81	-3.8990E-04	148.8	50.37	148.8	69.31	UL-RL	4.9641E+04	-10.00	73.68
1.000	1.000	124.1	0.000	0.000	Ug5_2_8_L_0					
52 D	25.39	-3.8543E-04	151.5	51.78	151.5	70.19	UL-RL	4.9641E+04	-10.20	75.16
1.000	1.000	126.9	0.000	0.000	Ug5_2_8_L_0					
53 D	25.97	-3.8043E-04	154.6	53.22	154.6	71.08	UL-RL	4.9641E+04	-10.40	76.63
1.000	1.000	129.9	0.000	0.000	Ug5_2_8_L_0					
54 D	26.56	-3.7501E-04	157.7	54.70	157.7	71.96	UL-RL	4.9641E+04	-10.60	78.11
1.000	1.000	132.8	0.000	0.000	Ug5_2_8_L_0					
55 D	27.16	-3.6926E-04	160.4	56.20	160.4	72.85	UL-RL	4.9641E+04	-10.80	79.58
1.000	1.000	135.8	0.000	0.000	Ug5_2_8_L_0					
56 D	27.76	-3.6328E-04	163.4	57.72	163.4	73.73	UL-RL	4.9641E+04	-11.00	81.05
1.000	1.000	138.8	0.000	0.000	Ug5_2_8_L_0					
57 D	28.36	-3.5713E-04	166.1	59.26	166.1	74.61	UL-RL	4.9641E+04	-11.20	82.53
1.000	1.000	141.8	0.000	0.000	Ug5_2_8_L_0					
58 D	28.96	-3.5087E-04	169.2	60.80	169.2	75.50	UL-RL	4.9641E+04	-11.40	84.00
1.000	1.000	144.8	0.000	0.000	Ug5_2_8_L_0					
59 D	29.56	-3.4454E-04	171.8	62.35	171.8	76.38	UL-RL	4.9641E+04	-11.60	85.47
1.000	1.000	147.8	0.000	0.000	Ug5_2_8_L_0					
60 D	30.17	-3.3819E-04	174.8	63.90	174.8	77.26	UL-RL	4.9641E+04	-11.80	86.95
1.000	1.000	150.9	0.000	0.000	Ug5_2_8_L_0					
61 D	15.39	-3.3183E-04	177.5	65.46	177.5	78.15	UL-RL	4.9641E+04	-12.00	88.42
1.000	1.000	153.9	0.000	0.000	Ug5_2_8_L_0					

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION *Build date:Jul 11, 2017*          |
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New Project

STRESS RESULTS FOR GROUP NO. 2

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ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 61  
CURRENT TIME IS 6.0000

HARDENING 2D SOIL ELEMENT

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

EL * FACTOR	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
1	0.000	--	--	--	--	--	REMOVED	--	0.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
2	0.000	--	--	--	--	--	REMOVED	--	-0.2000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
3	0.000	--	--	--	--	--	REMOVED	--	-0.4000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
4	0.000	--	--	--	--	--	REMOVED	--	-0.6000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
5	0.000	--	--	--	--	--	REMOVED	--	-0.8000	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	--	-1.200	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
8	0.000	--	--	--	--	--	REMOVED	--	-1.400	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
9	0.000	--	--	--	--	--	REMOVED	--	-1.600	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
10	0.000	--	--	--	--	--	REMOVED	--	-1.800	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
11	0.000	--	--	--	--	--	REMOVED	--	-2.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
12	0.000	--	--	--	--	--	REMOVED	--	-2.200	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
13	0.000	--	--	--	--	--	REMOVED	--	-2.400	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
14	0.000	--	--	--	--	--	REMOVED	--	-2.600	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
15	0.000	--	--	--	--	--	REMOVED	--	-2.800	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
16	0.000	--	--	--	--	--	REMOVED	--	-3.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
17	0.000	--	--	--	--	--	REMOVED	--	-3.200	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
18	0.000	--	--	--	--	--	REMOVED	--	-3.400	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
19	0.000	--	--	--	--	--	REMOVED	--	-3.600	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
20	0.000	--	--	--	--	--	REMOVED	--	-3.800	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
21	0.000	--	--	--	--	--	REMOVED	--	-4.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
22	0.000	--	--	--	--	--	REMOVED	--	-4.200	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
23	0.000	--	--	--	--	--	REMOVED	--	-4.400	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
24	0.000	--	--	--	--	--	REMOVED	--	-4.600	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
25	0.000	--	--	--	--	--	REMOVED	--	-4.800	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
26 D	0.000	2.0233E-04	0.000	0.000	50.00	46.43	PASSIVE	0.000	-5.000	0.000	
1.000	1.000	0.000	0.000	0.000	Ug5_2_8_L_0						
27 D	2.467	1.9553E-04	1.474	9.810	52.00	46.75	UL-RL	2.4680E+04	-5.200	2.526	
1.000	1.000	12.34	0.000	0.000	Ug5_2_8_L_0						
28 D	4.953	1.9624E-04	2.947	19.71	54.00	47.17	UL-RL	2.4680E+04	-5.400	5.053	
1.000	1.000	24.76	0.000	0.000	Ug5_2_8_L_0						
29 D	7.439	2.0277E-04	4.421	29.62	56.00	47.69	UL-RL	2.4680E+04	-5.600	7.579	
1.000	1.000	37.20	0.000	0.000	Ug5_2_8_L_0						
30 D	9.928	2.1369E-04	5.895	39.53	58.00	48.48	UL-RL	2.4680E+04	-5.800	10.11	
1.000	1.000	49.64	0.000	0.000	Ug5_2_8_L_0						
31 D	10.69	2.2775E-04	7.368	40.84	60.00	49.46	UL-RL	2.4680E+04	-6.000	12.63	
1.000	1.000	53.47	0.000	0.000	Ug5_2_8_L_0						
32 D	11.46	2.4392E-04	8.842	42.13	62.00	50.42	UL-RL	2.4680E+04	-6.200	15.16	
1.000	1.000	57.29	0.000	0.000	Ug5_2_8_L_0						
33 D	12.23	2.6129E-04	10.32	43.47	64.00	51.37	UL-RL	2.4680E+04	-6.400	17.68	

1.000	1.000	61.16	0.000	0.000	Ug5_2_8_L_0					
34 D	13.01	2.7909E-04	11.79	44.85	66.00	52.31	UL-RL	2.4680E+04	-6.600	20.21
1.000	1.000	65.06	0.000	0.000	Ug5_2_8_L_0					
35 D	13.80	2.9670E-04	13.26	46.25	68.00	53.23	UL-RL	2.4680E+04	-6.800	22.74
1.000	1.000	68.98	0.000	0.000	Ug5_2_8_L_0					
36 D	14.58	3.1363E-04	14.74	47.63	70.00	54.14	UL-RL	2.4680E+04	-7.000	25.26
1.000	1.000	72.89	0.000	0.000	Ug5_2_8_L_0					
37 D	15.36	3.2948E-04	16.21	48.99	72.00	55.05	UL-RL	2.4680E+04	-7.200	27.79
1.000	1.000	76.78	0.000	0.000	Ug5_2_8_L_0					
38 D	16.13	3.4397E-04	17.68	50.31	74.00	55.95	UL-RL	2.4680E+04	-7.400	30.32
1.000	1.000	80.63	0.000	0.000	Ug5_2_8_L_0					
39 D	16.89	3.5690E-04	19.16	51.58	76.00	56.83	UL-RL	2.4680E+04	-7.600	32.84
1.000	1.000	84.43	0.000	0.000	Ug5_2_8_L_0					
40 D	17.63	3.6815E-04	20.63	52.80	78.00	57.72	UL-RL	2.4680E+04	-7.800	35.37
1.000	1.000	88.17	0.000	0.000	Ug5_2_8_L_0					
41 D	18.37	3.7764E-04	22.11	53.96	80.00	58.59	UL-RL	2.4680E+04	-8.000	37.89
1.000	1.000	91.86	0.000	0.000	Ug5_2_8_L_0					
42 D	19.10	3.8538E-04	23.58	55.06	82.00	59.46	UL-RL	2.4680E+04	-8.200	40.42
1.000	1.000	95.48	0.000	0.000	Ug5_2_8_L_0					
43 D	19.81	3.9141E-04	25.05	56.09	84.00	60.33	UL-RL	2.4680E+04	-8.400	42.95
1.000	1.000	99.03	0.000	0.000	Ug5_2_8_L_0					
44 D	20.51	3.9578E-04	26.53	57.05	86.00	61.19	UL-RL	2.4680E+04	-8.600	45.47
1.000	1.000	102.5	0.000	0.000	Ug5_2_8_L_0					
45 D	21.19	3.9860E-04	28.00	57.96	88.00	62.05	UL-RL	2.4680E+04	-8.800	48.00
1.000	1.000	106.0	0.000	0.000	Ug5_2_8_L_0					
46 D	21.87	3.9998E-04	29.47	58.81	90.00	62.90	UL-RL	2.4680E+04	-9.000	50.53
1.000	1.000	109.3	0.000	0.000	Ug5_2_8_L_0					
47 D	22.53	4.0004E-04	30.95	59.61	92.00	63.75	UL-RL	2.4680E+04	-9.200	53.05
1.000	1.000	112.7	0.000	0.000	Ug5_2_8_L_0					
48 D	23.19	3.9893E-04	32.42	60.36	94.00	64.60	UL-RL	2.4680E+04	-9.400	55.58
1.000	1.000	115.9	0.000	0.000	Ug5_2_8_L_0					
49 D	23.83	3.9678E-04	33.89	61.06	96.00	65.45	UL-RL	2.4680E+04	-9.600	58.11
1.000	1.000	119.2	0.000	0.000	Ug5_2_8_L_0					
50 D	24.47	3.9373E-04	35.37	61.73	98.00	66.29	UL-RL	2.4680E+04	-9.800	60.63
1.000	1.000	122.4	0.000	0.000	Ug5_2_8_L_0					
51 D	25.10	3.8990E-04	36.84	62.36	100.00	67.13	UL-RL	2.4680E+04	-10.000	63.16
1.000	1.000	125.5	0.000	0.000	Ug5_2_8_L_0					
52 D	25.73	3.8543E-04	38.32	62.96	102.0	67.98	UL-RL	2.4680E+04	-10.200	65.68
1.000	1.000	128.6	0.000	0.000	Ug5_2_8_L_0					
53 D	26.35	3.8043E-04	39.79	63.54	104.0	68.82	UL-RL	2.4680E+04	-10.400	68.21
1.000	1.000	131.8	0.000	0.000	Ug5_2_8_L_0					
54 D	26.97	3.7501E-04	41.26	64.10	106.0	69.66	UL-RL	2.4680E+04	-10.600	70.74
1.000	1.000	134.8	0.000	0.000	Ug5_2_8_L_0					
55 D	27.58	3.6926E-04	42.74	64.64	108.0	70.50	UL-RL	2.4680E+04	-10.800	73.26
1.000	1.000	137.9	0.000	0.000	Ug5_2_8_L_0					
56 D	28.19	3.6328E-04	44.21	65.17	110.0	71.34	UL-RL	2.4680E+04	-11.000	75.79
1.000	1.000	141.0	0.000	0.000	Ug5_2_8_L_0					
57 D	28.80	3.5713E-04	45.68	65.69	112.0	72.18	UL-RL	2.4680E+04	-11.200	78.32
1.000	1.000	144.0	0.000	0.000	Ug5_2_8_L_0					
58 D	29.41	3.5087E-04	47.16	66.21	114.0	73.02	UL-RL	2.4680E+04	-11.400	80.84
1.000	1.000	147.1	0.000	0.000	Ug5_2_8_L_0					
59 D	30.02	3.4454E-04	48.63	66.72	116.0	73.86	UL-RL	2.4680E+04	-11.600	83.37
1.000	1.000	150.1	0.000	0.000	Ug5_2_8_L_0					
60 D	30.62	3.3819E-04	50.11	67.23	118.0	74.70	UL-RL	2.4680E+04	-11.800	85.89
1.000	1.000	153.1	0.000	0.000	Ug5_2_8_L_0					
61 D	15.62	3.3183E-04	51.58	67.74	120.0	75.54	UL-RL	2.4680E+04	-12.000	88.42
1.000	1.000	156.2	0.000	0.000	Ug5_2_8_L_0					

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|                PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                |
|                NewProject.BaseDesignSection_28.Nominal_63  |
|                Exe Time :24 May 2018  18:23:40  |
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New Project

STRESS RESULTS FOR GROUP NO. 3

WallElement\_33 :  
ELEMENT TYPE 2 NO.OF ELEMENTS. IN THIS GROUP 60  
CURRENT TIME IS 6.0000

WALL2D ELEMENT

EL	TA	TB	MA	MB
1	1.25684E-10	-1.25684E-10	1.24979E-11	3.47231E-11
2	0.42624	-0.42624	-2.17053E-11	8.52476E-02
3	1.2972	-1.2972	-8.52476E-02	0.34470
4	2.6207	-2.6207	-0.34470	0.86884
5	4.4119	-4.4119	-0.86884	1.7512
6	6.6707	-6.6707	-1.7512	3.0854
7	9.3763	-9.3763	-3.0854	4.9606
8	12.524	-12.524	-4.9606	7.4655
9	16.120	-16.120	-7.4655	10.689
10	20.153	-20.153	-10.689	14.720
11	24.629	-24.629	-14.720	19.646
12	29.542	-29.542	-19.646	25.554
13	34.895	-34.895	-25.554	32.533
14	40.953	-40.953	-32.533	40.724
15	47.708	-47.708	-40.724	50.265
16	55.137	-55.137	-50.265	61.293
17	63.216	-63.216	-61.293	73.936
18	71.899	-71.899	-73.936	88.316
19	81.137	-81.137	-88.316	104.54
20	90.870	-90.870	-104.54	122.72
21	-79.990	79.990	-122.72	106.72
22	-69.366	69.366	-106.72	92.846
23	-58.328	58.328	-92.846	81.180
24	-46.946	46.946	-81.180	71.791
25	-35.278	35.278	-71.791	64.735
26	-68.465	68.465	-64.735	51.043
27	-57.857	57.857	-51.043	39.471
28	-48.838	48.838	-39.471	29.703
29	-41.545	41.545	-29.703	21.394
30	-36.092	36.092	-21.394	14.176
31	-30.848	30.848	-14.176	8.0064
32	-25.879	25.879	-8.0064	2.8306
33	-21.250	21.250	-2.8306	-1.4193
34	-17.005	17.005	1.4193	-4.8203
35	-13.171	13.171	4.8203	-7.4546
36	-9.7615	9.7615	7.4546	-9.4069
37	-6.7744	6.7744	9.4069	-10.762
38	-4.1993	4.1993	10.762	-11.602
39	-2.0178	2.0178	11.602	-12.005
40	-0.20544	0.20544	12.005	-12.046
41	1.2664	-1.2664	12.046	-11.793
42	2.4287	-2.4287	11.793	-11.307
43	3.3139	-3.3139	11.307	-10.644
44	3.9543	-3.9543	10.644	-9.8536
45	4.3818	-4.3818	9.8536	-8.9772
46	4.6266	-4.6266	8.9772	-8.0519
47	4.7172	-4.7172	8.0519	-7.1085
48	4.6796	-4.6796	7.1085	-6.1726
49	4.5373	-4.5373	6.1726	-5.2651
50	4.3112	-4.3112	5.2651	-4.4029
51	4.0194	-4.0194	4.4029	-3.5990
52	3.6774	-3.6774	3.5990	-2.8635
53	3.2981	-3.2981	2.8635	-2.2039
54	2.8920	-2.8920	2.2039	-1.6255
55	2.4672	-2.4672	1.6255	-1.1321
56	2.0300	-2.0300	1.1321	-0.72609
57	1.5850	-1.5850	0.72609	-0.40910
58	1.1351	-1.1351	0.40910	-0.18207
59	0.68244	-0.68244	0.18207	-4.55849E-02
60	0.22791	-0.22791	4.55849E-02	1.46995E-12

ITER 0 RNORM =0.1618E+06 RMNORM= 0.000  
RINORM=0.1662E+06 RIMNOR=0.1859E+06  
RENORM=0.1923E+06 REMNOR=0.9989E-21 RATIO = 1.076 TOLER =0.1000E-03 NOT CONVERGED  
RFMAX = 322.0 RMMAX = 122.7  
RTSMAL=0.1000E-02 RMSMAL=0.1000E-02  
RDT =0.1662E+06 RDR =0.1859E+06  
RATIOT= 1.076 RATIO= 0.000  
MAX UN= 180.7 IEQ= 41 NODE 21 DOF 1 Y-DISPL.F

MIN UN=-322.3 IEQ= 49 NODE 25 DOF 1 Y-DISPL.F  
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 2 RNORM =0.1618E+06 RMNORM= 0.000  
RINORM=0.1662E+06 RIMNOR=0.1859E+06  
RENORM= 496.1 REMNOR=0.1991E-20 RATIO =0.5464E-01 TOLER =0.1000E-03 NOT CONVERGED  
RFMAX = 322.0 RMMAX = 122.7  
RTSMAL=0.1000E-02 RMSMAL=0.1000E-02  
RDT =0.1662E+06 RDR =0.1859E+06  
RATIOT=0.5464E-01 RATIOOR= 0.000  
MAX UN= 3.374 IEQ= 3 NODE 2 DOF 1 Y-DISPL.F  
MIN UN=-9.135 IEQ= 63 NODE 32 DOF 1 Y-DISPL.F  
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 3 RNORM =0.1618E+06 RMNORM= 0.000  
RINORM=0.1662E+06 RIMNOR=0.1859E+06  
RENORM= 16.51 REMNOR=0.2874E-20 RATIO =0.9968E-02 TOLER =0.1000E-03 NOT CONVERGED  
RFMAX = 322.0 RMMAX = 122.7  
RTSMAL=0.1000E-02 RMSMAL=0.1000E-02  
RDT =0.1662E+06 RDR =0.1859E+06  
RATIOT=0.9968E-02 RATIOOR= 0.000  
MAX UN= 2.041 IEQ= 19 NODE 10 DOF 1 Y-DISPL.F  
MIN UN=-2.467 IEQ= 67 NODE 34 DOF 1 Y-DISPL.F  
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 4 RNORM =0.1618E+06 RMNORM= 0.000  
RINORM=0.1662E+06 RIMNOR=0.1859E+06  
RENORM=0.1538 REMNOR=0.2518E-20 RATIO =0.9620E-03 TOLER =0.1000E-03 NOT CONVERGED  
RFMAX = 322.0 RMMAX = 122.7  
RTSMAL=0.1000E-02 RMSMAL=0.1000E-02  
RDT =0.1662E+06 RDR =0.1859E+06  
RATIOT=0.9620E-03 RATIOOR= 0.000  
MAX UN=0.5438E-09 IEQ= 3 NODE 2 DOF 1 Y-DISPL.F  
MIN UN=-.2386 IEQ= 29 NODE 15 DOF 1 Y-DISPL.F  
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 5 RNORM =0.1618E+06 RMNORM= 0.000  
RINORM=0.1662E+06 RIMNOR=0.1859E+06  
RENORM=0.1073 REMNOR=0.1589E-20 RATIO =0.8035E-03 TOLER =0.1000E-03 NOT CONVERGED  
RFMAX = 322.0 RMMAX = 122.7  
RTSMAL=0.1000E-02 RMSMAL=0.1000E-02  
RDT =0.1662E+06 RDR =0.1859E+06  
RATIOT=0.8035E-03 RATIOOR= 0.000  
MAX UN=0.1165 IEQ= 3 NODE 2 DOF 1 Y-DISPL.F  
MIN UN=-.2598E-01 IEQ= 41 NODE 21 DOF 1 Y-DISPL.F  
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 6 RNORM =0.1618E+06 RMNORM= 0.000  
RINORM=0.1662E+06 RIMNOR=0.1859E+06  
RENORM=0.6770E-04 REMNOR=0.1778E-20 RATIO =0.2018E-04 TOLER =0.1000E-03 CONVERGED !  
RFMAX = 322.0 RMMAX = 122.7  
RTSMAL=0.1000E-02 RMSMAL=0.1000E-02  
RDT =0.1662E+06 RDR =0.1859E+06  
RATIOT=0.2018E-04 RATIOOR= 0.000  
MAX UN=0.2734E-09 IEQ= 17 NODE 9 DOF 1 Y-DISPL.F  
MIN UN=-.6164E-02 IEQ= 41 NODE 21 DOF 1 Y-DISPL.F  
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

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|                PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                                                                            |
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|                NewProject.BaseDesignSection_28.Nominal_63  |
|                Exe Time :24 May 2018  18:23:40  |
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New Project  
SOLUTION REACHED USING 6 ITERATIONS ON 40

PRINT OUT FOR TIME STEP 7 ( AT TIME 7.000 )

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

	Y-DISPL.F (02)	X-ROT. F (04)
1	5.2064438E-03	-1.6696350E-03
2	4.8725168E-03	-1.6696350E-03
3	4.5385918E-03	-1.6696048E-03
4	4.2046830E-03	-1.6694529E-03
5	3.8708291E-03	-1.6690248E-03
6	3.5371061E-03	-1.6681011E-03
7	3.2036406E-03	-1.6663968E-03
8	2.8706227E-03	-1.6635626E-03
9	2.5383184E-03	-1.6591866E-03
10	2.2070825E-03	-1.6527946E-03
11	1.8773707E-03	-1.6438504E-03
12	1.5497523E-03	-1.6317558E-03
13	1.2249228E-03	-1.6158458E-03
14	9.0372404E-04	-1.5952856E-03
15	5.8719331E-04	-1.5689534E-03
16	2.7661891E-04	-1.5354776E-03
17	-2.6419658E-05	-1.4933082E-03
18	-3.2001228E-04	-1.4407348E-03
19	-6.0189536E-04	-1.3758882E-03
20	-8.6941442E-04	-1.2967446E-03
21	-1.1194940E-03	-1.2011309E-03
22	-1.3486130E-03	-1.0867289E-03
23	-1.5527693E-03	-9.5108335E-04
24	-1.7274574E-03	-7.9160417E-04
25	-1.8676410E-03	-6.0557592E-04
26	-1.9692993E-03	-4.1372138E-04
27	-2.0341155E-03	-2.3666107E-04
28	-2.0647467E-03	-7.1350580E-05
29	-2.0632288E-03	8.5364176E-05
30	-2.0309575E-03	2.3673212E-04
31	-1.9686707E-03	3.8607903E-04
32	-1.8776105E-03	5.1916347E-04
33	-1.7630391E-03	6.2174782E-04
34	-1.6307226E-03	6.9716468E-04
35	-1.4857665E-03	7.4868174E-04
36	-1.3326303E-03	7.7949324E-04
37	-1.1751494E-03	7.9261418E-04
38	-1.0165799E-03	7.9081672E-04
39	-8.5964611E-04	7.7666852E-04
40	-7.0657826E-04	7.5253430E-04
41	-5.5915376E-04	7.2057953E-04
42	-4.1873634E-04	6.8277643E-04
43	-2.8631398E-04	6.4091152E-04
44	-1.6253521E-04	5.9659446E-04
45	-4.7744048E-05	5.5126805E-04
46	5.7989817E-05	5.0621740E-04
47	1.5483510E-04	4.6254953E-04
48	2.4316193E-04	4.2116611E-04
49	3.2350090E-04	3.8277303E-04
50	3.9650527E-04	3.4789730E-04
51	4.6291813E-04	3.1690184E-04
52	5.2354040E-04	2.8999996E-04
53	5.7919509E-04	2.6727072E-04
54	6.3072054E-04	2.4866158E-04
55	6.7892337E-04	2.3400720E-04
56	7.2456866E-04	2.2303143E-04
57	7.6835586E-04	2.1535450E-04
58	8.1089846E-04	2.1049750E-04
59	8.5270453E-04	2.0788550E-04
60	8.9415773E-04	2.0684964E-04
61	9.3550128E-04	2.0663631E-04



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|                PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*                |
|                                                                                                                                            |
|                                                                                                                                            |
|                NewProject.BaseDesignSection_28.Nominal_63                                                                              |
|                Exe Time :24 May 2018      18:23:40                                                                              |
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New Project

STRESS RESULTS FOR GROUP NO. 1

0\_L  
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 61  
CURRENT TIME IS 7.0000

HARDENING 2D SOIL ELEMENT

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

EL * FACTOR	FORCE UFACOR	DISPL-Y Peq	VERTICAL-P Su_a	HORIZON.-P Su_p	MAX-V-P LAYER	MAX-H-P	STATE	STIFFNESS	Z-LEVEL	PORE	E
1 D	0.000	-5.2064E-03	0.000	0.000	0.000	0.000	ACTIVE	0.000	0.000	0.000	
1.000	1.000	0.000	0.000	0.000	Ug5_2_8_L_0						
2 D	0.4123	-4.8725E-03	2.781	0.7283	2.781	4.391	UL-RL	4.1367E+04	-0.2000	1.333	
1.000	1.000	2.062	0.000	0.000	Ug5_2_8_L_0						
3 D	0.8393	-4.5386E-03	5.934	1.530	5.934	7.857	UL-RL	4.1367E+04	-0.4000	2.667	
1.000	1.000	4.196	0.000	0.000	Ug5_2_8_L_0						
4 D	1.274	-4.2047E-03	9.242	2.370	9.242	10.57	UL-RL	4.1367E+04	-0.6000	4.000	
1.000	1.000	6.370	0.000	0.000	Ug5_2_8_L_0						
5 D	1.724	-3.8708E-03	12.85	3.286	12.85	12.90	UL-RL	4.1367E+04	-0.8000	5.333	
1.000	1.000	8.619	0.000	0.000	Ug5_2_8_L_0						
6 D	2.174	-3.5371E-03	16.47	4.202	16.47	15.05	UL-RL	4.1367E+04	-1.000	6.667	
1.000	1.000	10.87	0.000	0.000	Ug5_2_8_L_0						
7 D	2.603	-3.2036E-03	19.66	5.013	19.66	17.09	UL-RL	4.1367E+04	-1.200	8.000	
1.000	1.000	13.01	0.000	0.000	Ug5_2_8_L_0						
8 D	3.027	-2.8706E-03	22.77	5.802	22.77	19.05	UL-RL	4.1367E+04	-1.400	9.333	
1.000	1.000	15.14	0.000	0.000	Ug5_2_8_L_0						
9 D	3.456	-2.5383E-03	25.97	6.614	25.97	20.96	UL-RL	4.1367E+04	-1.600	10.67	
1.000	1.000	17.28	0.000	0.000	Ug5_2_8_L_0						
10 D	3.876	-2.2071E-03	28.98	7.381	28.98	22.80	UL-RL	4.1367E+04	-1.800	12.00	
1.000	1.000	19.38	0.000	0.000	Ug5_2_8_L_0						
11 D	4.301	-1.8774E-03	32.10	8.173	32.10	24.58	UL-RL	4.1367E+04	-2.000	13.33	
1.000	1.000	21.51	0.000	0.000	Ug5_2_8_L_0						
12 D	4.790	-1.5498E-03	35.10	9.286	35.10	26.31	UL-RL	4.1367E+04	-2.200	14.67	
1.000	1.000	23.95	0.000	0.000	Ug5_2_8_L_0						
13 D	6.623	-1.2249E-03	38.20	17.11	38.20	27.98	UL-RL	4.1367E+04	-2.400	16.00	
1.000	1.000	33.11	0.000	0.000	Ug5_2_8_L_0						
14 D	8.716	-9.0372E-04	41.21	26.24	41.21	29.60	UL-RL	4.1367E+04	-2.600	17.33	
1.000	1.000	43.58	0.000	0.000	Ug5_2_8_L_0						
15 D	10.04	-5.8719E-04	44.31	31.52	44.31	33.08	UL-RL	4.1367E+04	-2.800	18.67	
1.000	1.000	50.19	0.000	0.000	Ug5_2_8_L_0						
16 D	11.15	-2.7662E-04	47.33	35.74	47.33	36.99	UL-RL	4.1367E+04	-3.000	20.00	
1.000	1.000	55.74	0.000	0.000	Ug5_2_8_L_0						
17 D	12.24	2.6420E-05	50.44	39.88	50.44	40.81	UL-RL	4.1367E+04	-3.200	21.33	
1.000	1.000	61.21	0.000	0.000	Ug5_2_8_L_0						
18 D	13.31	3.2001E-04	53.48	43.89	53.48	44.53	UL-RL	4.1367E+04	-3.400	22.67	
1.000	1.000	66.56	0.000	0.000	Ug5_2_8_L_0						
19 D	14.35	6.0190E-04	56.53	47.77	56.53	48.13	UL-RL	4.1367E+04	-3.600	24.00	
1.000	1.000	71.77	0.000	0.000	Ug5_2_8_L_0						
20 D	15.37	8.6941E-04	59.65	51.49	59.65	51.59	UL-RL	4.1367E+04	-3.800	25.33	
1.000	1.000	76.83	0.000	0.000	Ug5_2_8_L_0						
21 D	16.31	1.1195E-03	62.72	54.87	62.72	54.92	UL-RL	4.1367E+04	-4.000	26.67	
1.000	1.000	81.54	0.000	0.000	Ug5_2_8_L_0						
22 D	17.26	1.3486E-03	65.84	58.28	65.84	58.31	UL-RL	4.1367E+04	-4.200	28.00	
1.000	1.000	86.28	0.000	0.000	Ug5_2_8_L_0						
23 D	18.15	1.5528E-03	68.91	61.41	68.91	61.43	UL-RL	4.1367E+04	-4.400	29.33	
1.000	1.000	90.75	0.000	0.000	Ug5_2_8_L_0						
24 D	18.97	1.7275E-03	72.02	64.19	72.02	64.20	UL-RL	4.1367E+04	-4.600	30.67	
1.000	1.000	94.86	0.000	0.000	Ug5_2_8_L_0						
25 D	19.71	1.8676E-03	75.09	66.54	75.09	66.54	UL-RL	4.1367E+04	-4.800	32.00	
1.000	1.000	98.54	0.000	0.000	Ug5_2_8_L_0						
26 D	20.38	1.9693E-03	78.16	68.58	78.16	68.58	V-C	1.3789E+04	-5.000	33.33	
1.000	1.000	101.9	0.000	0.000	Ug5_2_8_L_0						
27 D	21.22	2.0341E-03	81.05	71.41	81.05	71.41	V-C	1.3789E+04	-5.200	34.67	
1.000	1.000	106.1	0.000	0.000	Ug5_2_8_L_0						
28 D	21.92	2.0647E-03	83.95	73.59	83.95	73.59	V-C	1.3789E+04	-5.400	36.00	
1.000	1.000	109.6	0.000	0.000	Ug5_2_8_L_0						
29 D	22.50	2.0632E-03	86.85	75.17	86.85	75.17	V-C	1.3789E+04	-5.600	37.33	
1.000	1.000	112.5	0.000	0.000	Ug5_2_8_L_0						
30 D	22.97	2.0310E-03	89.76	76.18	89.76	76.18	V-C	1.3789E+04	-5.800	38.67	
1.000	1.000	114.8	0.000	0.000	Ug5_2_8_L_0						
31 D	23.33	1.9687E-03	92.67	76.66	92.67	76.66	V-C	1.3789E+04	-6.000	40.00	
1.000	1.000	116.7	0.000	0.000	Ug5_2_8_L_0						
32 D	23.59	1.8776E-03	95.57	76.64	95.57	76.64	V-C	1.3789E+04	-6.200	41.33	
1.000	1.000	118.0	0.000	0.000	Ug5_2_8_L_0						
33 D	23.78	1.7630E-03	98.48	76.22	98.48	76.22	V-C	1.3789E+04	-6.400	42.67	

1.000	1.000	118.9	0.000	0.000	Ug5_2_8_L_0					
34 D	23.90	1.6307E-03	101.6	75.49	101.6	75.49	V-C	1.3789E+04	-6.600	44.00
1.000	1.000	119.5	0.000	0.000	Ug5_2_8_L_0					
35 D	23.97	1.4858E-03	104.7	74.53	104.7	74.53	V-C	1.3789E+04	-6.800	45.33
1.000	1.000	119.9	0.000	0.000	Ug5_2_8_L_0					
36 D	24.02	1.3326E-03	108.3	73.42	108.3	73.42	V-C	1.3789E+04	-7.000	46.67
1.000	1.000	120.1	0.000	0.000	Ug5_2_8_L_0					
37 D	24.04	1.1751E-03	111.3	72.22	111.3	72.22	V-C	1.3789E+04	-7.200	48.00
1.000	1.000	120.2	0.000	0.000	Ug5_2_8_L_0					
38 D	24.06	1.0166E-03	114.8	70.99	114.8	70.99	V-C	1.3789E+04	-7.400	49.33
1.000	1.000	120.3	0.000	0.000	Ug5_2_8_L_0					
39 D	24.09	8.5965E-04	117.8	69.77	117.8	69.77	V-C	1.3789E+04	-7.600	50.67
1.000	1.000	120.4	0.000	0.000	Ug5_2_8_L_0					
40 D	24.12	7.0658E-04	121.3	68.59	121.3	68.59	V-C	1.3789E+04	-7.800	52.00
1.000	1.000	120.6	0.000	0.000	Ug5_2_8_L_0					
41 D	24.17	5.5915E-04	124.8	67.50	124.8	67.50	V-C	1.3789E+04	-8.000	53.33
1.000	1.000	120.8	0.000	0.000	Ug5_2_8_L_0					
42 D	24.23	4.1874E-04	127.7	66.50	127.7	66.50	V-C	1.3789E+04	-8.200	54.67
1.000	1.000	121.2	0.000	0.000	Ug5_2_8_L_0					
43 D	24.32	2.8631E-04	131.1	65.62	131.1	65.62	V-C	1.3789E+04	-8.400	56.00
1.000	1.000	121.6	0.000	0.000	Ug5_2_8_L_0					
44 D	24.44	1.6254E-04	134.0	64.86	134.0	64.86	V-C	1.3789E+04	-8.600	57.33
1.000	1.000	122.2	0.000	0.000	Ug5_2_8_L_0					
45 D	24.58	4.7744E-05	137.4	64.24	137.4	64.24	V-C	1.3789E+04	-8.800	58.67
1.000	1.000	122.9	0.000	0.000	Ug5_2_8_L_0					
46 D	24.31	-5.7990E-05	140.3	61.55	140.3	64.86	UL-RL	4.1367E+04	-9.000	60.00
1.000	1.000	121.6	0.000	0.000	Ug5_2_8_L_0					
47 D	24.01	-1.5484E-04	143.6	58.70	143.6	65.75	UL-RL	4.1367E+04	-9.200	61.33
1.000	1.000	120.0	0.000	0.000	Ug5_2_8_L_0					
48 D	23.78	-2.4316E-04	146.5	56.23	146.5	66.64	UL-RL	4.1367E+04	-9.400	62.67
1.000	1.000	118.9	0.000	0.000	Ug5_2_8_L_0					
49 D	23.62	-3.2350E-04	149.7	54.12	149.7	67.53	UL-RL	4.1367E+04	-9.600	64.00
1.000	1.000	118.1	0.000	0.000	Ug5_2_8_L_0					
50 D	23.53	-3.9651E-04	152.6	52.34	152.6	68.42	UL-RL	4.1367E+04	-9.800	65.33
1.000	1.000	117.7	0.000	0.000	Ug5_2_8_L_0					
51 D	23.51	-4.6292E-04	155.9	50.86	155.9	69.31	UL-RL	4.1367E+04	-10.00	66.67
1.000	1.000	117.5	0.000	0.000	Ug5_2_8_L_0					
52 D	23.53	-5.2354E-04	158.7	49.64	158.7	70.19	UL-RL	4.1367E+04	-10.20	68.00
1.000	1.000	117.6	0.000	0.000	Ug5_2_8_L_0					
53 D	23.60	-5.7920E-04	161.9	48.65	161.9	71.08	UL-RL	4.1367E+04	-10.40	69.33
1.000	1.000	118.0	0.000	0.000	Ug5_2_8_L_0					
54 D	23.70	-6.3072E-04	165.2	47.84	165.2	71.96	UL-RL	4.1367E+04	-10.60	70.67
1.000	1.000	118.5	0.000	0.000	Ug5_2_8_L_0					
55 D	23.84	-6.7892E-04	168.0	47.18	168.0	72.85	UL-RL	4.1367E+04	-10.80	72.00
1.000	1.000	119.2	0.000	0.000	Ug5_2_8_L_0					
56 D	23.99	-7.2457E-04	171.2	46.64	171.2	73.73	UL-RL	4.1367E+04	-11.00	73.33
1.000	1.000	120.0	0.000	0.000	Ug5_2_8_L_0					
57 D	24.17	-7.6836E-04	174.0	46.18	174.0	74.61	UL-RL	4.1367E+04	-11.20	74.67
1.000	1.000	120.8	0.000	0.000	Ug5_2_8_L_0					
58 D	24.35	-8.1090E-04	177.2	45.77	177.2	75.50	UL-RL	4.1367E+04	-11.40	76.00
1.000	1.000	121.8	0.000	0.000	Ug5_2_8_L_0					
59 D	24.55	-8.5270E-04	180.0	45.40	180.0	76.38	UL-RL	4.1367E+04	-11.60	77.33
1.000	1.000	122.7	0.000	0.000	Ug5_2_8_L_0					
60 D	24.85	-8.9416E-04	183.1	45.59	183.1	77.26	ACTIVE	0.000	-11.80	78.67
1.000	1.000	124.3	0.000	0.000	Ug5_2_8_L_0					
61 D	12.63	-9.3550E-04	185.9	46.29	185.9	78.15	ACTIVE	0.000	-12.00	80.00
1.000	1.000	126.3	0.000	0.000	Ug5_2_8_L_0					

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|                PARATIEPLUS(TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION *Build date:Jul 11, 2017*                |
|                                                                                                                                            |
|                                                                                                                                            |
|                NewProject.BaseDesignSection_28.Nominal_63                                                                              |
|                Exe Time :24 May 2018  18:23:40                                                                                              |
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New Project

STRESS RESULTS FOR GROUP NO. 2

0\_R  
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 61  
CURRENT TIME IS 7.0000

HARDENING 2D SOIL ELEMENT

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

EL * FACTOR	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
1	0.000	--	--	--	--	--	REMOVED	--	0.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
2	0.000	--	--	--	--	--	REMOVED	--	-0.2000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
3	0.000	--	--	--	--	--	REMOVED	--	-0.4000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
4	0.000	--	--	--	--	--	REMOVED	--	-0.6000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
5	0.000	--	--	--	--	--	REMOVED	--	-0.8000	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	--	-1.200	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
8	0.000	--	--	--	--	--	REMOVED	--	-1.400	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
9	0.000	--	--	--	--	--	REMOVED	--	-1.600	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
10	0.000	--	--	--	--	--	REMOVED	--	-1.800	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
11	0.000	--	--	--	--	--	REMOVED	--	-2.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
12	0.000	--	--	--	--	--	REMOVED	--	-2.200	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
13	0.000	--	--	--	--	--	REMOVED	--	-2.400	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
14	0.000	--	--	--	--	--	REMOVED	--	-2.600	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
15	0.000	--	--	--	--	--	REMOVED	--	-2.800	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
16	0.000	--	--	--	--	--	REMOVED	--	-3.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
17	0.000	--	--	--	--	--	REMOVED	--	-3.200	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
18	0.000	--	--	--	--	--	REMOVED	--	-3.400	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
19	0.000	--	--	--	--	--	REMOVED	--	-3.600	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
20	0.000	--	--	--	--	--	REMOVED	--	-3.800	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
21	0.000	--	--	--	--	--	REMOVED	--	-4.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
22	0.000	--	--	--	--	--	REMOVED	--	-4.200	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
23	0.000	--	--	--	--	--	REMOVED	--	-4.400	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
24	0.000	--	--	--	--	--	REMOVED	--	-4.600	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
25	0.000	--	--	--	--	--	REMOVED	--	-4.800	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
26	0.000	--	--	--	--	--	REMOVED	--	-5.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
27	0.000	--	--	--	--	--	REMOVED	--	-5.200	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
28	0.000	--	--	--	--	--	REMOVED	--	-5.400	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
29	0.000	--	--	--	--	--	REMOVED	--	-5.600	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
30	0.000	--	--	--	--	--	REMOVED	--	-5.800	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
31	0.000	--	--	--	--	--	REMOVED	--	-6.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
32 D	0.5997	-1.8776E-03	1.333	0.3320	62.00	50.42	ACTIVE	0.000	-6.200	2.667	
1.000	1.000	2.999	0.000	0.000	Ug5_2_8_L_0						
33 D	1.199	-1.7630E-03	2.667	0.6640	64.00	51.37	ACTIVE	0.000	-6.400	5.333	

1.000	1.000	5.997	0.000	0.000	Ug5_2_8_L_0					
34 D	1.799	-1.6307E-03	4.000	0.9960	66.00	52.31	ACTIVE	0.000	-6.600	8.000
1.000	1.000	8.996	0.000	0.000	Ug5_2_8_L_0					
35 D	2.399	-1.4858E-03	5.333	1.328	68.00	53.23	ACTIVE	0.000	-6.800	10.67
1.000	1.000	11.99	0.000	0.000	Ug5_2_8_L_0					
36 D	4.369	-1.3326E-03	6.667	8.513	70.00	54.14	UL-RL	2.0566E+04	-7.000	13.33
1.000	1.000	21.85	0.000	0.000	Ug5_2_8_L_0					
37 D	5.792	-1.1751E-03	8.000	12.96	72.00	55.05	UL-RL	2.0566E+04	-7.200	16.00
1.000	1.000	28.96	0.000	0.000	Ug5_2_8_L_0					
38 D	7.210	-1.0166E-03	9.333	17.38	74.00	55.95	UL-RL	2.0566E+04	-7.400	18.67
1.000	1.000	36.05	0.000	0.000	Ug5_2_8_L_0					
39 D	8.611	-8.5965E-04	10.67	21.72	76.00	56.83	UL-RL	2.0566E+04	-7.600	21.33
1.000	1.000	43.05	0.000	0.000	Ug5_2_8_L_0					
40 D	9.988	-7.0658E-04	12.00	25.94	78.00	57.72	UL-RL	2.0566E+04	-7.800	24.00
1.000	1.000	49.94	0.000	0.000	Ug5_2_8_L_0					
41 D	11.33	-5.5915E-04	13.33	30.00	80.00	58.59	UL-RL	2.0566E+04	-8.000	26.67
1.000	1.000	56.66	0.000	0.000	Ug5_2_8_L_0					
42 D	12.64	-4.1874E-04	14.67	33.87	82.00	59.46	UL-RL	2.0566E+04	-8.200	29.33
1.000	1.000	63.20	0.000	0.000	Ug5_2_8_L_0					
43 D	13.91	-2.8631E-04	16.00	37.54	84.00	60.33	UL-RL	2.0566E+04	-8.400	32.00
1.000	1.000	69.54	0.000	0.000	Ug5_2_8_L_0					
44 D	15.13	-1.6254E-04	17.33	41.00	86.00	61.19	UL-RL	2.0566E+04	-8.600	34.67
1.000	1.000	75.66	0.000	0.000	Ug5_2_8_L_0					
45 D	16.31	-4.7744E-05	18.67	44.23	88.00	62.05	UL-RL	2.0566E+04	-8.800	37.33
1.000	1.000	81.56	0.000	0.000	Ug5_2_8_L_0					
46 D	17.45	5.7990E-05	20.00	47.24	90.00	62.90	UL-RL	2.0566E+04	-9.000	40.00
1.000	1.000	87.24	0.000	0.000	Ug5_2_8_L_0					
47 D	18.54	1.5484E-04	21.33	50.04	92.00	63.75	UL-RL	2.0566E+04	-9.200	42.67
1.000	1.000	92.70	0.000	0.000	Ug5_2_8_L_0					
48 D	19.59	2.4316E-04	22.67	52.63	94.00	64.60	UL-RL	2.0566E+04	-9.400	45.33
1.000	1.000	97.96	0.000	0.000	Ug5_2_8_L_0					
49 D	20.61	3.2350E-04	24.00	55.03	96.00	65.45	UL-RL	2.0566E+04	-9.600	48.00
1.000	1.000	103.0	0.000	0.000	Ug5_2_8_L_0					
50 D	21.59	3.9651E-04	25.33	57.26	98.00	66.29	UL-RL	2.0566E+04	-9.800	50.67
1.000	1.000	107.9	0.000	0.000	Ug5_2_8_L_0					
51 D	22.53	4.6292E-04	26.67	59.33	100.00	67.13	UL-RL	2.0566E+04	-10.000	53.33
1.000	1.000	112.7	0.000	0.000	Ug5_2_8_L_0					
52 D	23.45	5.2354E-04	28.00	61.26	102.0	67.98	UL-RL	2.0566E+04	-10.200	56.00
1.000	1.000	117.3	0.000	0.000	Ug5_2_8_L_0					
53 D	24.35	5.7920E-04	29.33	63.08	104.0	68.82	UL-RL	2.0566E+04	-10.400	58.67
1.000	1.000	121.7	0.000	0.000	Ug5_2_8_L_0					
54 D	25.23	6.3072E-04	30.67	64.80	106.0	69.66	UL-RL	2.0566E+04	-10.600	61.33
1.000	1.000	126.1	0.000	0.000	Ug5_2_8_L_0					
55 D	26.09	6.7892E-04	32.00	66.43	108.0	70.50	UL-RL	2.0566E+04	-10.800	64.00
1.000	1.000	130.4	0.000	0.000	Ug5_2_8_L_0					
56 D	26.94	7.2457E-04	33.33	68.01	110.0	71.34	UL-RL	2.0566E+04	-11.000	66.67
1.000	1.000	134.7	0.000	0.000	Ug5_2_8_L_0					
57 D	27.77	7.6836E-04	34.67	69.54	112.0	72.18	UL-RL	2.0566E+04	-11.200	69.33
1.000	1.000	138.9	0.000	0.000	Ug5_2_8_L_0					
58 D	28.61	8.1090E-04	36.00	71.04	114.0	73.02	UL-RL	2.0566E+04	-11.400	72.00
1.000	1.000	143.0	0.000	0.000	Ug5_2_8_L_0					
59 D	29.44	8.5270E-04	37.33	72.52	116.0	73.86	UL-RL	2.0566E+04	-11.600	74.67
1.000	1.000	147.2	0.000	0.000	Ug5_2_8_L_0					
60 D	30.26	8.9416E-04	38.67	73.99	118.0	74.70	UL-RL	2.0566E+04	-11.800	77.33
1.000	1.000	151.3	0.000	0.000	Ug5_2_8_L_0					
61 D	15.55	9.3550E-04	40.00	75.45	120.0	75.54	UL-RL	2.0566E+04	-12.000	80.00
1.000	1.000	155.5	0.000	0.000	Ug5_2_8_L_0					

```

+-----+
|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|                                                                                               |
|                                                                                               |
|                                                                                               |
|                                                                                               |
|                                                                                               |
|                                                                                               |
+-----+

```

New Project

STRESS RESULTS FOR GROUP NO. 3

WallElement\_33 :  
ELEMENT TYPE 2 NO.OF ELEMENTS. IN THIS GROUP 60  
CURRENT TIME IS 7.0000

WALL2D ELEMENT

EL	TA	TB	MA	MB
1	-2.30749E-11	2.30749E-11	-2.11176E-12	2.02831E-11
2	0.41233	-0.41233	-1.18394E-11	8.24652E-02
3	1.2516	-1.2516	-8.24652E-02	0.33279
4	2.5256	-2.5256	-0.33279	0.83790
5	4.2494	-4.2494	-0.83790	1.6878
6	6.4231	-6.4231	-1.6878	2.9724
7	9.0257	-9.0257	-2.9724	4.7775
8	12.053	-12.053	-4.7775	7.1881
9	15.509	-15.509	-7.1881	10.290
10	19.385	-19.385	-10.290	14.167
11	23.686	-23.686	-14.167	18.904
12	28.477	-28.477	-18.904	24.600
13	35.100	-35.100	-24.600	31.620
14	43.815	-43.815	-31.620	40.383
15	53.852	-53.852	-40.383	51.153
16	65.001	-65.001	-51.153	64.153
17	77.243	-77.243	-64.153	79.602
18	90.555	-90.555	-79.602	97.713
19	104.91	-104.91	-97.713	118.70
20	120.28	-120.28	-118.70	142.75
21	136.59	-136.59	-142.75	170.07
22	153.85	-153.85	-170.07	200.84
23	172.00	-172.00	-200.84	235.24
24	190.97	-190.97	-235.24	273.43
25	-111.32	111.32	-273.43	251.17
26	-90.935	90.935	-251.17	232.98
27	-69.719	69.719	-232.98	219.04
28	-47.801	47.801	-219.04	209.48
29	-25.300	25.300	-209.48	204.42
30	-2.3311	2.3311	-204.42	203.95
31	-220.00	220.00	-203.95	159.95
32	-197.00	197.00	-159.95	120.55
33	-174.43	174.43	-120.55	85.666
34	-152.33	152.33	-85.666	55.201
35	-130.76	130.76	-55.201	29.050
36	-111.11	111.11	-29.050	6.8281
37	-92.856	92.856	-6.8281	-11.743
38	-76.002	76.002	11.743	-26.943
39	-60.526	60.526	26.943	-39.049
40	-46.395	46.395	39.049	-48.328
41	-33.562	33.562	48.328	-55.040
42	-21.970	21.970	55.040	-59.434
43	-11.555	11.555	59.434	-61.745
44	-2.2480	2.2480	61.745	-62.195
45	6.0214	-6.0214	62.195	-60.991
46	12.884	-12.884	60.991	-58.414
47	18.349	-18.349	58.414	-54.744
48	22.535	-22.535	54.744	-50.237
49	25.552	-25.552	50.237	-45.127
50	27.501	-27.501	45.127	-39.626
51	28.474	-28.474	39.626	-33.932
52	28.550	-28.550	33.932	-28.222
53	27.797	-27.797	28.222	-22.662
54	26.272	-26.272	22.662	-17.408
55	24.021	-24.021	17.408	-12.604
56	21.080	-21.080	12.604	-8.3878
57	17.474	-17.474	8.3878	-4.8931
58	13.220	-13.220	4.8931	-2.2491
59	8.3290	-8.3290	2.2491	-0.58331
60	2.9164	-2.9164	0.58331	2.76070E-12

```
+-----+
|          PARATIEPLUS(TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION *Build date:Jul 11, 2017*          |
|                                                                                                                                            |
|                                                                                                                                            |
|          NewProject.BaseDesignSection_28.Nominal_63                                                                                       |
|          Exe Time :24 May 2018          18:23:40                                                                                           |
+-----+
```

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

END OF PROCESS FOR PROBLEM

New Project

NONLINEAR SOLUTION CPU TIME .... 0.05 [sec]

DATABASE CREATION CPU TIME..... 0.22 [sec]

# Design Assumption : A1+M1+R1 - File di Paratie - File di output (.out)

```
+-----+
|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*          |
|                                                                                                                                            |
|                                                                                                                                            |
|          NewProject.BaseDesignSection_28.A1M1R1_1757                                                                                       |
|          Exe Time :24 May 2018          18:23:40                                                                                           |
+-----+
```

```
*****
*
*  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  2017.1      *Build date:Jul 11, 2017*
*
*
*  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_28.A1M1R1_1757
STARTING
ACCEPTED <FILE,GENW                                     >
ACCEPTED <FILE,PLOTTER,BINARY                           >
ACCEPTED <SOLVE TOTAL_STRESS                           >
ACCEPTED <PARAM ITEMAX 40                               >
ACCEPTED <CONTROL HINGES 0 0.0001 0.001                 >
```

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

```
PRELIMINARY OPERATIONS CPU TIME      0.02 [sec]
```

```

+-----+
|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*          |
|                                                                                                                                            |
|                                                                                                                                            |
|                                                                                                                                            |
|                                                                                                                                            |
|          NewProject.BaseDesignSection_28.A1M1R1_1757          |
|          Exe Time :24 May 2018          18:23:40          |
|                                                                                                                                            |
+-----+

```

INPUT FILE HAS BEEN GENERATED BY WALGEN PROGRAM

New Project

```

NO. OF NODAL POINTS (NUMNP) ..... 61
NO. OF COORDINATES (NCOORD)..... 2
NO. OF NODE DOFS (NDOF)..... 2
NO. OF EQUATIONS (NEQ)..... 122
NO. OF CONSTRAINTS CARDS (NVINC)..... 0
NO. OF ELEMENT GROUPS (NEG)..... 3
NO. OF SOLUTION STEPS (NSTE)..... 7
NO. OF ELEMENT SETS ATTACHED TO SLAVE NODES ... 0
NO. OF RECORD FROM WALGEN ..... 86
NO. OF LONG NAMES (LASTNAME) ..... 20
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.

```



```
+-----+
|                PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                                                                            |
|                                                                                                                                            |
|                NewProject.BaseDesignSection_28.A1M1R1_1757  |
|                Exe Time :24 May 2018  18:23:40  |
+-----+
```

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     86

```
1 : UNIT m kN
2 : TITLE New Project
3 : DELTA 0.2
4 : option param itemax 40
5 : option control hinges 0 0.0001 0.001
6 : WALL LeftWall_32 0 -12 0 1
7 : SOIL 0_L LeftWall_32 -12 0 1 0
8 : SOIL 0_R LeftWall_32 -12 0 2 180
9 : LDATA Ug5_2_8_L_0 0 LeftWall_32
10 : ATREST 0.5 0.5 1
11 : WEIGHT 19 10 10
12 : PERMEABILITY 0.0001
13 : RESISTANCE 0 37
14 : YOUNG 5.5E+04 1.65E+05
15 : ENDL
16 : MATERIAL S355_114 2.1E+08
17 : BEAM WallElement_33 LeftWall_32 -12 0 S355_114 0.25 00 00 0
18 : STRIP LeftWall_32 1 7 5 13 0 62 45
19 : STRIP LeftWall_32 1 7 18 17 0 45 45
20 : STRIP LeftWall_32 1 7 0.5 4.5 0 11.54 45
21 : STEP Stage1_31
22 : CHANGE Ug5_2_8_L_0 U-FRICT=37 LeftWall_32
23 : CHANGE Ug5_2_8_L_0 D-FRICT=37 LeftWall_32
24 : CHANGE Ug5_2_8_L_0 U-KA=0.249 LeftWall_32
25 : CHANGE Ug5_2_8_L_0 U-KP=6.738 LeftWall_32
26 : CHANGE Ug5_2_8_L_0 D-KA=0.249 LeftWall_32
27 : CHANGE Ug5_2_8_L_0 D-KP=6.738 LeftWall_32
28 : CHANGE Ug5_2_8_L_0 U-COHE=0 LeftWall_32
29 : CHANGE Ug5_2_8_L_0 D-COHE=0 LeftWall_32
30 : SETWALL LeftWall_32
31 : GEOM 0 0
32 : WATER 0 0 -12 0 0
33 : ADD WallElement_33
34 : ENDSTEP
35 : STEP Stage2_158
36 : CHANGE Ug5_2_8_L_0 D-FRICT=37 LeftWall_32
37 : CHANGE Ug5_2_8_L_0 D-COHE=0 LeftWall_32
38 : SETWALL LeftWall_32
39 : GEOM 0 -1
40 : WATER 0 1 -12 0 0
41 : ENDSTEP
42 : STEP Stage3_255
43 : CHANGE Ug5_2_8_L_0 D-FRICT=37 LeftWall_32
44 : CHANGE Ug5_2_8_L_0 D-COHE=0 LeftWall_32
45 : SETWALL LeftWall_32
46 : GEOM 0 -2
47 : WATER 0 2 -12 0 0
48 : ENDSTEP
49 : STEP Stage4_352
50 : CHANGE Ug5_2_8_L_0 D-FRICT=37 LeftWall_32
51 : CHANGE Ug5_2_8_L_0 D-COHE=0 LeftWall_32
52 : SETWALL LeftWall_32
53 : GEOM 0 -3
54 : WATER 0 3 -12 0 0
55 : LOAD step LeftWall_32 -2.7 1 -20
56 : LOAD step LeftWall_32 -3 1 -72
57 : ENDSTEP
58 : STEP Stage5_449
59 : CHANGE Ug5_2_8_L_0 D-FRICT=37 LeftWall_32
60 : CHANGE Ug5_2_8_L_0 D-COHE=0 LeftWall_32
61 : SETWALL LeftWall_32
62 : GEOM 0 -4
63 : SURCHARGE 0 0 0 -4
64 : WATER 0 4 -12 0 0
65 : LOAD step LeftWall_32 -4 1 -80.5
66 : LOAD step LeftWall_32 -3.3 1 -105
67 : ENDSTEP
68 : STEP Stage6_546
69 : CHANGE Ug5_2_8_L_0 D-FRICT=37 LeftWall_32
70 : CHANGE Ug5_2_8_L_0 D-COHE=0 LeftWall_32
71 : SETWALL LeftWall_32
72 : GEOM 0 -5
73 : SURCHARGE 0 0 0 0
74 : WATER 0 5 -12 0 0
75 : LOAD step LeftWall_32 -5 1 -45.2
76 : LOAD step LeftWall_32 -4 1 -181
77 : ENDSTEP
78 : STEP Stage7_643
```

```
79 : CHANGE Ug5_2_8_L_0 D-FRICT=37 LeftWall_32
80 : CHANGE Ug5_2_8_L_0 D-COHE=0 LeftWall_32
81 : SETWALL LeftWall_32
82 : GEOM 0 -6
83 : WATER 0 6 -12 0 0
84 : LOAD constant LeftWall_32 -6 1 -241
85 : LOAD constant LeftWall_32 -4.7 1 -322
86 : ENDSTEP
```





52	52	1	0.2000	0.000	0.000	0.000	1.000
53	53	1	0.2000	0.000	0.000	0.000	1.000
54	54	1	0.2000	0.000	0.000	0.000	1.000
55	55	1	0.2000	0.000	0.000	0.000	1.000
56	56	1	0.2000	0.000	0.000	0.000	1.000
57	57	1	0.2000	0.000	0.000	0.000	1.000
58	58	1	0.2000	0.000	0.000	0.000	1.000
59	59	1	0.2000	0.000	0.000	0.000	1.000
60	60	1	0.2000	0.000	0.000	0.000	1.000
61	61	1	0.1000	0.000	0.000	0.000	1.000

```

+-----+
|          PARATIEPLUS(TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION *Build date:Jul 11, 2017* |
|                                                                                               |
|                               NewProject.BaseDesignSection_28.A1M1R1_1757                       |
|                               Exe Time :24 May 2018      18:23:40                             |
+-----+

```

ELEMENT GROUP NO. 2

```

0_R
 5 61 0 1 0 0 0 0 0 0 0 0 0 0 0 1 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
7 active

```

material set no. 1

```

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

```

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	1	0.2000	0.000	0.000	0.000	2.000
22	22	1	0.2000	0.000	0.000	0.000	2.000
23	23	1	0.2000	0.000	0.000	0.000	2.000
24	24	1	0.2000	0.000	0.000	0.000	2.000
25	25	1	0.2000	0.000	0.000	0.000	2.000
26	26	1	0.2000	0.000	0.000	0.000	2.000
27	27	1	0.2000	0.000	0.000	0.000	2.000
28	28	1	0.2000	0.000	0.000	0.000	2.000
29	29	1	0.2000	0.000	0.000	0.000	2.000
30	30	1	0.2000	0.000	0.000	0.000	2.000
31	31	1	0.2000	0.000	0.000	0.000	2.000
32	32	1	0.2000	0.000	0.000	0.000	2.000
33	33	1	0.2000	0.000	0.000	0.000	2.000
34	34	1	0.2000	0.000	0.000	0.000	2.000
35	35	1	0.2000	0.000	0.000	0.000	2.000
36	36	1	0.2000	0.000	0.000	0.000	2.000
37	37	1	0.2000	0.000	0.000	0.000	2.000
38	38	1	0.2000	0.000	0.000	0.000	2.000
39	39	1	0.2000	0.000	0.000	0.000	2.000
40	40	1	0.2000	0.000	0.000	0.000	2.000
41	41	1	0.2000	0.000	0.000	0.000	2.000
42	42	1	0.2000	0.000	0.000	0.000	2.000
43	43	1	0.2000	0.000	0.000	0.000	2.000
44	44	1	0.2000	0.000	0.000	0.000	2.000
45	45	1	0.2000	0.000	0.000	0.000	2.000
46	46	1	0.2000	0.000	0.000	0.000	2.000
47	47	1	0.2000	0.000	0.000	0.000	2.000
48	48	1	0.2000	0.000	0.000	0.000	2.000
49	49	1	0.2000	0.000	0.000	0.000	2.000
50	50	1	0.2000	0.000	0.000	0.000	2.000
51	51	1	0.2000	0.000	0.000	0.000	2.000

52	52	1	0.2000	0.000	0.000	0.000	2.000
53	53	1	0.2000	0.000	0.000	0.000	2.000
54	54	1	0.2000	0.000	0.000	0.000	2.000
55	55	1	0.2000	0.000	0.000	0.000	2.000
56	56	1	0.2000	0.000	0.000	0.000	2.000
57	57	1	0.2000	0.000	0.000	0.000	2.000
58	58	1	0.2000	0.000	0.000	0.000	2.000
59	59	1	0.2000	0.000	0.000	0.000	2.000
60	60	1	0.2000	0.000	0.000	0.000	2.000
61	61	1	0.1000	0.000	0.000	0.000	2.000

```

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|                                                                                               |
|          NewProject.BaseDesignSection_28.A1M1R1_1757  |
|          Exe Time :24 May 2018          18:23:40      |
+-----+

```

ELEMENT GROUP NO. 3

```

WallElement_33      :
  2 60 0 1 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
7 active

```

material set no. 1

```

prop( 1) young modulus      0.210000E+09
prop( 2) modification time  0.00000
prop( 3) new young modulus  0.00000
prop( 4) poisson ratio      0.00000
prop( 5) future ..... 0.00000

```

no. of step variable items: 1

step inertia multiplier

```

-----
1 1.000
2 1.000
3 1.000
4 1.000
5 1.000
6 1.000
7 1.000

```

element data

e1	na	nb	mat	erc1	erc2	thick	by-i	by-j
1	1	2	1	0.000	0.000	0.2500	0.000	0.000
2	2	3	1	0.000	0.000	0.2500	0.000	0.000
3	3	4	1	0.000	0.000	0.2500	0.000	0.000
4	4	5	1	0.000	0.000	0.2500	0.000	0.000
5	5	6	1	0.000	0.000	0.2500	0.000	0.000
6	6	7	1	0.000	0.000	0.2500	0.000	0.000
7	7	8	1	0.000	0.000	0.2500	0.000	0.000
8	8	9	1	0.000	0.000	0.2500	0.000	0.000
9	9	10	1	0.000	0.000	0.2500	0.000	0.000
10	10	11	1	0.000	0.000	0.2500	0.000	0.000
11	11	12	1	0.000	0.000	0.2500	0.000	0.000
12	12	13	1	0.000	0.000	0.2500	0.000	0.000
13	13	14	1	0.000	0.000	0.2500	0.000	0.000
14	14	15	1	0.000	0.000	0.2500	0.000	0.000
15	15	16	1	0.000	0.000	0.2500	0.000	0.000
16	16	17	1	0.000	0.000	0.2500	0.000	0.000
17	17	18	1	0.000	0.000	0.2500	0.000	0.000
18	18	19	1	0.000	0.000	0.2500	0.000	0.000
19	19	20	1	0.000	0.000	0.2500	0.000	0.000
20	20	21	1	0.000	0.000	0.2500	0.000	0.000
21	21	22	1	0.000	0.000	0.2500	0.000	0.000
22	22	23	1	0.000	0.000	0.2500	0.000	0.000
23	23	24	1	0.000	0.000	0.2500	0.000	0.000
24	24	25	1	0.000	0.000	0.2500	0.000	0.000
25	25	26	1	0.000	0.000	0.2500	0.000	0.000
26	26	27	1	0.000	0.000	0.2500	0.000	0.000
27	27	28	1	0.000	0.000	0.2500	0.000	0.000
28	28	29	1	0.000	0.000	0.2500	0.000	0.000
29	29	30	1	0.000	0.000	0.2500	0.000	0.000
30	30	31	1	0.000	0.000	0.2500	0.000	0.000
31	31	32	1	0.000	0.000	0.2500	0.000	0.000
32	32	33	1	0.000	0.000	0.2500	0.000	0.000
33	33	34	1	0.000	0.000	0.2500	0.000	0.000
34	34	35	1	0.000	0.000	0.2500	0.000	0.000
35	35	36	1	0.000	0.000	0.2500	0.000	0.000
36	36	37	1	0.000	0.000	0.2500	0.000	0.000
37	37	38	1	0.000	0.000	0.2500	0.000	0.000
38	38	39	1	0.000	0.000	0.2500	0.000	0.000



39	39	40	1	0.000	0.000	0.2500	0.000	0.000
40	40	41	1	0.000	0.000	0.2500	0.000	0.000
41	41	42	1	0.000	0.000	0.2500	0.000	0.000
42	42	43	1	0.000	0.000	0.2500	0.000	0.000
43	43	44	1	0.000	0.000	0.2500	0.000	0.000
44	44	45	1	0.000	0.000	0.2500	0.000	0.000
45	45	46	1	0.000	0.000	0.2500	0.000	0.000
46	46	47	1	0.000	0.000	0.2500	0.000	0.000
47	47	48	1	0.000	0.000	0.2500	0.000	0.000
48	48	49	1	0.000	0.000	0.2500	0.000	0.000
49	49	50	1	0.000	0.000	0.2500	0.000	0.000
50	50	51	1	0.000	0.000	0.2500	0.000	0.000
51	51	52	1	0.000	0.000	0.2500	0.000	0.000
52	52	53	1	0.000	0.000	0.2500	0.000	0.000
53	53	54	1	0.000	0.000	0.2500	0.000	0.000
54	54	55	1	0.000	0.000	0.2500	0.000	0.000
55	55	56	1	0.000	0.000	0.2500	0.000	0.000
56	56	57	1	0.000	0.000	0.2500	0.000	0.000
57	57	58	1	0.000	0.000	0.2500	0.000	0.000
58	58	59	1	0.000	0.000	0.2500	0.000	0.000
59	59	60	1	0.000	0.000	0.2500	0.000	0.000
60	60	61	1	0.000	0.000	0.2500	0.000	0.000

```
+-----+
|          PARATIEPLUS(TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION  *Build date:Jul 11, 2017*          |
|                                                                                                                                           |
|                                                                                                                                           |
|                                                                                                                                           |
|                                                                                                                                           |
|                                                                                                                                           |
|                                                                                                                                           |
|                                                                                                                                           |
+-----+
```

```
NO. OF NODAL LOADS (NLOAD) ..... 8
NO. OF LOAD CURVES (NLCUR) ..... 14
MAXIMUM POINTS/LCURVE (NPTM)..... 5
```

```

+-----+
|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|                                                                                               |
|                                                                                               |
|                                                                                               |
|                                                                                               |
|                                                                                               |
|                                                                                               |
+-----+

```

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
8.00000	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
8.00000	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
8.00000	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
8.00000	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
8.00000	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
8.00000	0.0000E+00

LOAD FUNCTION NUMBER = 7  
NUMBER OF TIME POINTS = 5

TIME VALUE	FUNCTION
0.00000	0.0000E+00
6.80000	0.0000E+00
7.00000	0.1000E+01
7.20000	0.0000E+00
8.00000	0.0000E+00

LOAD FUNCTION NUMBER = 8  
NUMBER OF TIME POINTS = 4

TIME VALUE	FUNCTION
0.00000	0.0000E+00
0.80000	0.0000E+00
1.00000	0.1000E+01
8.00000	0.1000E+01

LOAD FUNCTION NUMBER = 9  
NUMBER OF TIME POINTS = 4

TIME VALUE	FUNCTION
0.00000	0.0000E+00
1.80000	0.0000E+00
2.00000	0.1000E+01
8.00000	0.1000E+01

LOAD FUNCTION NUMBER = 10  
NUMBER OF TIME POINTS = 4

TIME VALUE	FUNCTION
0.00000	0.0000E+00
2.80000	0.0000E+00
3.00000	0.1000E+01
8.00000	0.1000E+01

LOAD FUNCTION NUMBER = 11  
NUMBER OF TIME POINTS = 4

TIME VALUE	FUNCTION
0.00000	0.0000E+00
3.80000	0.0000E+00
4.00000	0.1000E+01
8.00000	0.1000E+01

LOAD FUNCTION NUMBER = 12  
NUMBER OF TIME POINTS = 4

TIME VALUE	FUNCTION
0.00000	0.0000E+00
4.80000	0.0000E+00
5.00000	0.1000E+01
8.00000	0.1000E+01

LOAD FUNCTION NUMBER = 13  
NUMBER OF TIME POINTS = 4

TIME VALUE	FUNCTION
0.00000	0.0000E+00
5.80000	0.0000E+00
6.00000	0.1000E+01
8.00000	0.1000E+01

LOAD FUNCTION NUMBER = 14  
NUMBER OF TIME POINTS = 4

TIME VALUE	FUNCTION
0.00000	0.0000E+00

6.80000	0.0000E+00
7.00000	0.1000E+01
8.00000	0.1000E+01

CONCENTRATED LOADS

NODE	DIRECTION	LOAD CURVE	LOAD CURVE MULTIPL
14	1	4	-0.2000E+02
16	1	4	-0.7200E+02
21	1	5	-0.8050E+02
17	1	5	-0.1050E+03
26	1	6	-0.4520E+02
21	1	6	-0.1810E+03
31	1	14	-0.2410E+03
25	1	14	-0.3220E+03

NO. OF DISTRIBUTED LOAD CARDS 0

```

+-----+
|          PARATIEPLUS(TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION *Build date:Jul 11, 2017*          |
|                                                                                                                                            |
|                                                                                                                                            |
|                                                                                                                                            |
|                                                                                                                                            |
|                                                                                                                                            |
|                                                                                                                                            |
|                                                                                                                                            |
+-----+

```

```

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     -92.0000000
STEP 4 TOTAL APPLIED LOAD IN DIR. 4 X-ROT. F      0.0000000

STEP 5 TOTAL APPLIED LOAD IN DIR. 2 Y-DISPL.F    -185.5000000
STEP 5 TOTAL APPLIED LOAD IN DIR. 4 X-ROT. F      0.0000000

STEP 6 TOTAL APPLIED LOAD IN DIR. 2 Y-DISPL.F    -226.2000000
STEP 6 TOTAL APPLIED LOAD IN DIR. 4 X-ROT. F      0.0000000

STEP 7 TOTAL APPLIED LOAD IN DIR. 2 Y-DISPL.F    -563.0000000
STEP 7 TOTAL APPLIED LOAD IN DIR. 4 X-ROT. F      0.0000000

```

LOAD INPUT SECTION COMPLETED

```
+-----+
|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*          |
|                                                                                                                                            |
|                                                                                                                                            |
|                                                                                                                                            |
|          NewProject.BaseDesignSection_28.A1M1R1_1757                                                                                       |
|          Exe Time :24 May 2018          18:23:40                                                                                           |
+-----+
```

```
NO. OF LAYERS ..... 1
NO. OF DATA PER LAYER..... 100
```

```

+-----+
|                PARATIEPLUS(TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION *Build date:Jul 11, 2017* |
|                                                                                               |
|                                                                                               |
|                NewProject.BaseDesignSection_28.A1M1R1_1757 |
|                Exe Time :24 May 2018          18:23:40 |
+-----+

```

LAYER DESCRIPTORS FOR STEP NO. 1

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

```

ITEM NO. 1<NAME      >= 18.000    (BOTH WALLS)
ITEM NO. 2<NATURE   >= 1.0000   (BOTH WALLS)
ITEM NO. 3<LEVEL    >= 0.0000   (BOTH WALLS)
ITEM NO. 4<WALL     >= 1.0000   (BOTH WALLS)
ITEM NO. 5<GAMMAD   >= 19.000   (BOTH WALLS)
ITEM NO. 6<GAMMAB   >= 10.000   (BOTH WALLS)
ITEM NO. 7<GAMMAW   >= 10.000   (BOTH WALLS)
ITEM NO. 9<U-FRICT  >= 37.000   (BOTH WALLS)
ITEM NO. 10<U-KA    >= 0.24900  WALL NO.    1
ITEM NO. 11<U-KP    >= 6.7380   WALL NO.    1
ITEM NO. 12<K0-NC   >= 0.50000   (BOTH WALLS)
ITEM NO. 13<NEXP    >= 0.50000   (BOTH WALLS)
ITEM NO. 14<OCR     >= 1.0000   (BOTH WALLS)
ITEM NO. 16<MODEL   >= 1.0000   (BOTH WALLS)
ITEM NO. 17<EVC     >= 55000.    (BOTH WALLS)
ITEM NO. 18<EUR     >= 0.16500E+06 (BOTH WALLS)
ITEM NO. 27<U-PERM  >= 0.10000E-03 (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 >= 37.000   (BOTH WALLS)
ITEM NO. 60<D-KA    >= 0.24900  WALL NO.    1
ITEM NO. 61<D-KP    >= 6.7380   WALL NO.    1
ITEM NO. 77<D-PERM  >= 0.10000E-03 (BOTH WALLS)

```

LAYER DESCRIPTORS FOR STEP NO. 2

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

```

ITEM NO. 1<NAME      >= 18.000    (BOTH WALLS)
ITEM NO. 2<NATURE   >= 1.0000   (BOTH WALLS)
ITEM NO. 3<LEVEL    >= 0.0000   (BOTH WALLS)
ITEM NO. 4<WALL     >= 1.0000   (BOTH WALLS)
ITEM NO. 5<GAMMAD   >= 19.000   (BOTH WALLS)
ITEM NO. 6<GAMMAB   >= 10.000   (BOTH WALLS)
ITEM NO. 7<GAMMAW   >= 10.000   (BOTH WALLS)
ITEM NO. 9<U-FRICT  >= 37.000   (BOTH WALLS)
ITEM NO. 10<U-KA    >= 0.24900  WALL NO.    1
ITEM NO. 11<U-KP    >= 6.7380   WALL NO.    1
ITEM NO. 12<K0-NC   >= 0.50000   (BOTH WALLS)
ITEM NO. 13<NEXP    >= 0.50000   (BOTH WALLS)
ITEM NO. 14<OCR     >= 1.0000   (BOTH WALLS)
ITEM NO. 16<MODEL   >= 1.0000   (BOTH WALLS)
ITEM NO. 17<EVC     >= 55000.    (BOTH WALLS)
ITEM NO. 18<EUR     >= 0.16500E+06 (BOTH WALLS)
ITEM NO. 27<U-PERM  >= 0.10000E-03 (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 >= 37.000   (BOTH WALLS)
ITEM NO. 60<D-KA    >= 0.24900  WALL NO.    1
ITEM NO. 61<D-KP    >= 6.7380   WALL NO.    1
ITEM NO. 77<D-PERM  >= 0.10000E-03 (BOTH WALLS)

```

LAYER DESCRIPTORS FOR STEP NO. 3

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

```

ITEM NO. 1<NAME      >= 18.000    (BOTH WALLS)
ITEM NO. 2<NATURE   >= 1.0000   (BOTH WALLS)
ITEM NO. 3<LEVEL    >= 0.0000   (BOTH WALLS)
ITEM NO. 4<WALL     >= 1.0000   (BOTH WALLS)
ITEM NO. 5<GAMMAD   >= 19.000   (BOTH WALLS)
ITEM NO. 6<GAMMAB   >= 10.000   (BOTH WALLS)
ITEM NO. 7<GAMMAW   >= 10.000   (BOTH WALLS)
ITEM NO. 9<U-FRICT  >= 37.000   (BOTH WALLS)
ITEM NO. 10<U-KA    >= 0.24900  WALL NO.    1
ITEM NO. 11<U-KP    >= 6.7380   WALL NO.    1
ITEM NO. 12<K0-NC   >= 0.50000   (BOTH WALLS)
ITEM NO. 13<NEXP    >= 0.50000   (BOTH WALLS)
ITEM NO. 14<OCR     >= 1.0000   (BOTH WALLS)
ITEM NO. 16<MODEL   >= 1.0000   (BOTH WALLS)
ITEM NO. 17<EVC     >= 55000.    (BOTH WALLS)
ITEM NO. 18<EUR     >= 0.16500E+06 (BOTH WALLS)
ITEM NO. 27<U-PERM  >= 0.10000E-03 (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 >= 37.000 (BOTH WALLS)  
ITEM NO. 60<D-KA >= 0.24900 WALL NO. 1  
ITEM NO. 61<D-KP >= 6.7380 WALL NO. 1  
ITEM NO. 77<D-PERM >= 0.10000E-03 (BOTH WALLS)

LAYER DESCRIPTORS FOR STEP NO. 4

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

ITEM NO. 1<NAME >= 18.000 (BOTH WALLS)  
ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)  
ITEM NO. 3<LEVEL >= 0.0000 (BOTH WALLS)  
ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)  
ITEM NO. 5<GAMMAD >= 19.000 (BOTH WALLS)  
ITEM NO. 6<GAMMAB >= 10.000 (BOTH WALLS)  
ITEM NO. 7<GAMMAW >= 10.000 (BOTH WALLS)  
ITEM NO. 9<U-FRICT >= 37.000 (BOTH WALLS)  
ITEM NO. 10<U-KA >= 0.24900 WALL NO. 1  
ITEM NO. 11<U-KP >= 6.7380 WALL NO. 1  
ITEM NO. 12<K0-NC >= 0.50000 (BOTH WALLS)  
ITEM NO. 13<NEXP >= 0.50000 (BOTH WALLS)  
ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)  
ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)  
ITEM NO. 17<EVC >= 55000. (BOTH WALLS)  
ITEM NO. 18<EUR >= 0.16500E+06 (BOTH WALLS)  
ITEM NO. 27<U-PERM >= 0.10000E-03 (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 >= 37.000 (BOTH WALLS)  
ITEM NO. 60<D-KA >= 0.24900 WALL NO. 1  
ITEM NO. 61<D-KP >= 6.7380 WALL NO. 1  
ITEM NO. 77<D-PERM >= 0.10000E-03 (BOTH WALLS)

LAYER DESCRIPTORS FOR STEP NO. 5

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

ITEM NO. 1<NAME >= 18.000 (BOTH WALLS)  
ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)  
ITEM NO. 3<LEVEL >= 0.0000 (BOTH WALLS)  
ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)  
ITEM NO. 5<GAMMAD >= 19.000 (BOTH WALLS)  
ITEM NO. 6<GAMMAB >= 10.000 (BOTH WALLS)  
ITEM NO. 7<GAMMAW >= 10.000 (BOTH WALLS)  
ITEM NO. 9<U-FRICT >= 37.000 (BOTH WALLS)  
ITEM NO. 10<U-KA >= 0.24900 WALL NO. 1  
ITEM NO. 11<U-KP >= 6.7380 WALL NO. 1  
ITEM NO. 12<K0-NC >= 0.50000 (BOTH WALLS)  
ITEM NO. 13<NEXP >= 0.50000 (BOTH WALLS)  
ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)  
ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)  
ITEM NO. 17<EVC >= 55000. (BOTH WALLS)  
ITEM NO. 18<EUR >= 0.16500E+06 (BOTH WALLS)  
ITEM NO. 27<U-PERM >= 0.10000E-03 (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 >= 37.000 (BOTH WALLS)  
ITEM NO. 60<D-KA >= 0.24900 WALL NO. 1  
ITEM NO. 61<D-KP >= 6.7380 WALL NO. 1  
ITEM NO. 77<D-PERM >= 0.10000E-03 (BOTH WALLS)

LAYER DESCRIPTORS FOR STEP NO. 6

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

ITEM NO. 1<NAME >= 18.000 (BOTH WALLS)  
ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)  
ITEM NO. 3<LEVEL >= 0.0000 (BOTH WALLS)  
ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)  
ITEM NO. 5<GAMMAD >= 19.000 (BOTH WALLS)  
ITEM NO. 6<GAMMAB >= 10.000 (BOTH WALLS)  
ITEM NO. 7<GAMMAW >= 10.000 (BOTH WALLS)  
ITEM NO. 9<U-FRICT >= 37.000 (BOTH WALLS)  
ITEM NO. 10<U-KA >= 0.24900 WALL NO. 1  
ITEM NO. 11<U-KP >= 6.7380 WALL NO. 1  
ITEM NO. 12<K0-NC >= 0.50000 (BOTH WALLS)  
ITEM NO. 13<NEXP >= 0.50000 (BOTH WALLS)  
ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)  
ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)  
ITEM NO. 17<EVC >= 55000. (BOTH WALLS)  
ITEM NO. 18<EUR >= 0.16500E+06 (BOTH WALLS)  
ITEM NO. 27<U-PERM >= 0.10000E-03 (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 >= 37.000 (BOTH WALLS)  
ITEM NO. 60<D-KA >= 0.24900 WALL NO. 1  
ITEM NO. 61<D-KP >= 6.7380 WALL NO. 1

ITEM NO. 77<D-PERM >= 0.10000E-03 (BOTH WALLS)

LAYER DESCRIPTORS FOR STEP NO. 7

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 1 FOR STEP NO. 7

ITEM NO.	1<NAME	>= 18.000	(BOTH WALLS)	
ITEM NO.	2<NATURE	>= 1.0000	(BOTH WALLS)	
ITEM NO.	3<LEVEL	>= 0.0000	(BOTH WALLS)	
ITEM NO.	4<WALL	>= 1.0000	(BOTH WALLS)	
ITEM NO.	5<GAMMAD	>= 19.000	(BOTH WALLS)	
ITEM NO.	6<GAMMAB	>= 10.000	(BOTH WALLS)	
ITEM NO.	7<GAMMAW	>= 10.000	(BOTH WALLS)	
ITEM NO.	9<U-FRICT	>= 37.000	(BOTH WALLS)	
ITEM NO.	10<U-KA	>= 0.24900	WALL NO.	1
ITEM NO.	11<U-KP	>= 6.7380	WALL NO.	1
ITEM NO.	12<K0-NC	>= 0.50000	(BOTH WALLS)	
ITEM NO.	13<NEXP	>= 0.50000	(BOTH WALLS)	
ITEM NO.	14<OCR	>= 1.0000	(BOTH WALLS)	
ITEM NO.	16<MODEL	>= 1.0000	(BOTH WALLS)	
ITEM NO.	17<EVC	>= 55000.	(BOTH WALLS)	
ITEM NO.	18<EUR	>= 0.16500E+06	(BOTH WALLS)	
ITEM NO.	27<U-PERM	>= 0.10000E-03	(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	>= 37.000	(BOTH WALLS)	
ITEM NO.	60<D-KA	>= 0.24900	WALL NO.	1
ITEM NO.	61<D-KP	>= 6.7380	WALL NO.	1
ITEM NO.	77<D-PERM	>= 0.10000E-03	(BOTH WALLS)	

DEFAULT WATER UNIT WEIGHT = 10.000  
AVERAGED ON 7 VALUES

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+-----+
|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|                                                                                               |
|          NewProject.BaseDesignSection_28.A1M1R1_1757  |
|          Exe Time :24 May 2018          18:23:40  |
+-----+

```

PHASE DESCRIPTORS

```

STEP NO.      1

LEFT WALL      RIGHT WALL
Y              0.000      -0.9990E+30
Z-PC           0.000      0.000
Z-EXCAVATION   0.000      0.000
Z-WATER_TABLE  0.000      -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  -12.00    -12.00
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           0.000      0.000
Z-EXCAVATION   -1.000      0.000
Z-WATER_TABLE  0.000      -0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL  0.000      0.000
ZQ             0.000      0.000
DZW_OF_THE_WATER_TABLE  1.000      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  -12.00    -12.00
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

```

STEP NO.      3

LEFT WALL      RIGHT WALL

```

Y	0.000	-0.9990E+30
Z-PC	0.000	0.000
Z-EXCAVATION	-2.000	0.000
Z-WATER_TABLE	0.000	-0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL	0.000	0.000
ZQ	0.000	0.000
DZW_OF_THE_WATER_TABLE	2.000	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	-12.00	-12.00
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	0.000	0.000
Z-EXCAVATION	-3.000	0.000
Z-WATER_TABLE	0.000	-0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL	0.000	0.000
ZQ	0.000	0.000
DZW_OF_THE_WATER_TABLE	3.000	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	-12.00	-12.00
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	0.000	0.000
Z-EXCAVATION	-4.000	0.000
Z-WATER_TABLE	0.000	-0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL	0.000	0.000
ZQ	0.000	0.000
DZW_OF_THE_WATER_TABLE	4.000	0.000
QS_ON_THE_EXCAVATION_SIDE	0.000	0.000
ZQS	-4.000	-0.9990E+30
ZCUT	0.000	0.000
BALANCE LEVEL FOR PORE PRESSURES	-12.00	-12.00
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	0.000	0.000
Z-EXCAVATION	-5.000	0.000
Z-WATER_TABLE	0.000	-0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL	0.000	0.000
ZQ	0.000	0.000
DZW_OF_THE_WATER_TABLE	5.000	0.000
QS_ON_THE_EXCAVATION_SIDE	0.000	0.000
ZQS	0.000	-0.9990E+30
ZCUT	0.000	0.000
BALANCE LEVEL FOR PORE PRESSURES	-12.00	-12.00
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

STEP NO. 7

	LEFT WALL	RIGHT WALL
Y	0.000	-0.9990E+30
Z-PC	0.000	0.000
Z-EXCAVATION	-6.000	0.000
Z-WATER_TABLE	0.000	-0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL	0.000	0.000
ZQ	0.000	0.000
DZW_OF_THE_WATER_TABLE	6.000	0.000
QS_ON_THE_EXCAVATION_SIDE	0.000	0.000
ZQS	0.000	-0.9990E+30
ZCUT	0.000	0.000
BALANCE LEVEL FOR PORE PRESSURES	-12.00	-12.00
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   7

LEFT-HAND WALL

LOWER LEVEL           -12.00000  
UPPER LEVEL            0.00000

RIGHT-HAND WALL

LOWER LEVEL           -12.00000  
UPPER LEVEL            0.00000

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+-----+
|          PARATIEPLUS(TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION *Build date:Jul 11, 2017* |
|                                                                                               |
|                                                                                               |
|                               NewProject.BaseDesignSection_28.A1M1R1_1757                       |
|                               Exe Time :24 May 2018      18:23:40                             |
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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                    3

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) 7.0000

TYPE BOUSSINESQ

HORIZONTAL DISTANCE (DY)                    5.0000000000000000  
FOUNDATION WIDTH    (B)                    13.0000000000000000  
ZETA-F.....                            0.0000000000000000E+000  
Q-F .....                                62.0000000000000000  
BETA .....                                45.0000000000000000  
BEHAVIOUR (0=FREE, 1=REFLECTING) 0.0000000000000000E+000

INPUT DATA FOR INITIAL STRESS SET NO.    2  
PERTAINING SOIL ELEMENTS AT Y-COORD    0.0000

ACTIVATION TIME                            1.0000  
END TIME (TIME BEYOND WHICH IT IS REMOVED) 7.0000

TYPE BOUSSINESQ

HORIZONTAL DISTANCE (DY)                    18.0000000000000000  
FOUNDATION WIDTH    (B)                    17.0000000000000000  
ZETA-F.....                            0.0000000000000000E+000  
Q-F .....                                45.0000000000000000  
BETA .....                                45.0000000000000000  
BEHAVIOUR (0=FREE, 1=REFLECTING) 0.0000000000000000E+000

INPUT DATA FOR INITIAL STRESS SET NO.    3  
PERTAINING SOIL ELEMENTS AT Y-COORD    0.0000

ACTIVATION TIME                            1.0000  
END TIME (TIME BEYOND WHICH IT IS REMOVED) 7.0000

TYPE BOUSSINESQ

HORIZONTAL DISTANCE (DY)                    0.5000000000000000  
FOUNDATION WIDTH    (B)                    4.5000000000000000  
ZETA-F.....                            0.0000000000000000E+000  
Q-F .....                                11.5400000000000000  
BETA .....                                45.0000000000000000  
BEHAVIOUR (0=FREE, 1=REFLECTING) 0.0000000000000000E+000

ELEMENT GROUPS BACKUP AREA CAN STAY IN CORE AT  
POSITION                    3123

NO. OF D.P.W FOR THIS AREA                7200  
MAX NO. OF D.P.W. AVAILABLE               81920  
\*\* MAX NO OF ITERATIONS SET TO            40

ITER    0    RNORM = 0.000    RMNORM= 0.000  
          RINORM=0.6773E+05    RIMNOR= 0.000  
          RENORM=0.1672E-27    REMNOR= 0.000    RATIO =0.4969E-16    TOLER =0.1000E-03    CONVERGED !  
          RFMAX = 38.54    RMMAX = 0.000  
          RTSMAL=0.1000E-03    RMSMAL= 0.000  
          RDT    =0.6773E+05    RDR    = 0.000  
          RATIO=0.4969E-16    RATIO= 0.000  
          MAX UN=0.3553E-14    IEQ=    91 NODE    46 DOF    1    Y-DISPL.F  
          MIN UN=-.7105E-14    IEQ=    115 NODE    58 DOF    1    Y-DISPL.F  
          NO. OF CONTACT CONSTRAINT VIOLATIONS                0

ITER    1    RNORM = 0.000    RMNORM= 0.000  
          RINORM=0.6773E+05    RIMNOR= 0.000  
          RENORM=0.2189E-28    REMNOR=0.8614E-53    RATIO =0.1798E-16    TOLER =0.1000E-03    CONVERGED !  
          RFMAX = 38.54    RMMAX = 0.000  
          RTSMAL=0.1000E-03    RMSMAL= 0.000  
          RDT    =0.6773E+05    RDR    = 0.000  
          RATIO=0.1798E-16    RATIO= 0.000  
          MAX UN=0.2142E-15    IEQ=    67 NODE    34 DOF    1    Y-DISPL.F

MIN UN=-.2139E-14 IEQ= 119 NODE 60 DOF 1 Y-DISPL.F  
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 2 RNORM = 0.000 RMNORM= 0.000  
RINORM=0.6773E+05 RIMNOR= 0.000  
RENORM=0.1879E-28 REMNOR=0.4985E-53 RATIO =0.1666E-16 TOLER =0.1000E-03 CONVERGED !  
RFMAX = 38.54 RMMAX = 0.000  
RTSMAL=0.1000E-03 RMSMAL= 0.000  
RDT =0.6773E+05 RDR = 0.000  
RATIOT=0.1666E-16 RATIO= 0.000  
MAX UN=0.2150E-15 IEQ= 67 NODE 34 DOF 1 Y-DISPL.F  
MIN UN=-.1815E-14 IEQ= 119 NODE 60 DOF 1 Y-DISPL.F  
NO. OF CONTACT CONSTRAINT VIOLATIONS 0



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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|                                                                                               |
|          NewProject.BaseDesignSection_28.A1M1R1_1757  |
|          Exe Time :24 May 2018      18:23:40          |
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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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|                PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*                |
|                                                                                                                                            |
|                                                                                                                                            |
|                NewProject.BaseDesignSection_28.A1M1R1_1757                                                                              |
|                Exe Time :24 May 2018      18:23:40                                                                              |
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New Project

STRESS RESULTS FOR GROUP NO. 1

0\_L  
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 61  
CURRENT TIME IS 1.0000

HARDENING 2D SOIL ELEMENT

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

EL * FACTOR	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
1 D	0.000	2.5825E-21	0.000	0.000	0.000	0.000	V-C	6.8946E+04	0.000	0.000	
1.000	1.000	0.000	0.000	0.000	Ug5_2_8_L_0						
2 D	1.333	2.7530E-21	2.132	4.664	2.132	4.664	V-C	6.8946E+04	-0.2000	2.000	
1.000	1.000	6.664	0.000	0.000	Ug5_2_8_L_0						
3 D	2.452	2.9226E-21	4.692	8.262	4.692	8.262	V-C	6.8946E+04	-0.4000	4.000	
1.000	1.000	12.26	0.000	0.000	Ug5_2_8_L_0						
4 D	3.398	3.0890E-21	7.429	10.99	7.429	10.99	V-C	6.8946E+04	-0.6000	6.000	
1.000	1.000	16.99	0.000	0.000	Ug5_2_8_L_0						
5 D	4.258	3.2489E-21	10.52	13.29	10.52	13.29	V-C	6.8946E+04	-0.8000	8.000	
1.000	1.000	21.29	0.000	0.000	Ug5_2_8_L_0						
6 D	5.076	3.3973E-21	13.60	15.38	13.60	15.38	V-C	6.8946E+04	-1.000	10.00	
1.000	1.000	25.38	0.000	0.000	Ug5_2_8_L_0						
7 D	5.870	3.5279E-21	16.20	17.35	16.20	17.35	V-C	6.8946E+04	-1.200	12.00	
1.000	1.000	29.35	0.000	0.000	Ug5_2_8_L_0						
8 D	6.649	3.6332E-21	18.69	19.25	18.69	19.25	V-C	6.8946E+04	-1.400	14.00	
1.000	1.000	33.25	0.000	0.000	Ug5_2_8_L_0						
9 D	7.415	3.7046E-21	21.29	21.08	21.29	21.08	V-C	6.8946E+04	-1.600	16.00	
1.000	1.000	37.08	0.000	0.000	Ug5_2_8_L_0						
10 D	8.169	3.7319E-21	23.67	22.85	23.67	22.85	V-C	6.8946E+04	-1.800	18.00	
1.000	1.000	40.85	0.000	0.000	Ug5_2_8_L_0						
11 D	8.912	3.7042E-21	26.17	24.56	26.17	24.56	V-C	6.8946E+04	-2.000	20.00	
1.000	1.000	44.56	0.000	0.000	Ug5_2_8_L_0						
12 D	9.643	3.6093E-21	28.52	26.22	28.52	26.22	V-C	6.8946E+04	-2.200	22.00	
1.000	1.000	48.22	0.000	0.000	Ug5_2_8_L_0						
13 D	10.36	3.4340E-21	30.98	27.82	30.98	27.82	V-C	6.8946E+04	-2.400	24.00	
1.000	1.000	51.82	0.000	0.000	Ug5_2_8_L_0						
14 D	11.07	3.1647E-21	33.34	29.37	33.34	29.37	V-C	6.8946E+04	-2.600	26.00	
1.000	1.000	55.37	0.000	0.000	Ug5_2_8_L_0						
15 D	11.77	2.7867E-21	35.80	30.86	35.80	30.86	V-C	6.8946E+04	-2.800	28.00	
1.000	1.000	58.86	0.000	0.000	Ug5_2_8_L_0						
16 D	12.46	2.2852E-21	38.16	32.31	38.16	32.31	V-C	6.8946E+04	-3.000	30.00	
1.000	1.000	62.31	0.000	0.000	Ug5_2_8_L_0						
17 D	13.14	1.6450E-21	40.62	33.71	40.62	33.71	V-C	6.8946E+04	-3.200	32.00	
1.000	1.000	65.71	0.000	0.000	Ug5_2_8_L_0						
18 D	13.81	8.5105E-22	43.01	35.06	43.01	35.06	V-C	6.8946E+04	-3.400	34.00	
1.000	1.000	69.06	0.000	0.000	Ug5_2_8_L_0						
19 D	14.47	-1.1154E-22	45.40	36.37	45.40	36.37	V-C	6.8946E+04	-3.600	36.00	
1.000	1.000	72.37	0.000	0.000	Ug5_2_8_L_0						
20 D	15.13	-1.2569E-21	47.87	37.63	47.87	37.63	V-C	6.8946E+04	-3.800	38.00	
1.000	1.000	75.63	0.000	0.000	Ug5_2_8_L_0						
21 D	15.77	-2.5980E-21	50.27	38.86	50.27	38.86	V-C	6.8946E+04	-4.000	40.00	
1.000	1.000	78.86	0.000	0.000	Ug5_2_8_L_0						
22 D	16.41	-4.1381E-21	52.73	40.06	52.73	40.06	V-C	6.8946E+04	-4.200	42.00	
1.000	1.000	82.06	0.000	0.000	Ug5_2_8_L_0						
23 D	17.04	-5.8437E-21	55.14	41.21	55.14	41.21	V-C	6.8946E+04	-4.400	44.00	
1.000	1.000	85.21	0.000	0.000	Ug5_2_8_L_0						
24 D	17.67	-7.6705E-21	57.60	42.34	57.60	42.34	V-C	6.8946E+04	-4.600	46.00	
1.000	1.000	88.34	0.000	0.000	Ug5_2_8_L_0						
25 D	18.29	-9.5714E-21	60.01	43.44	60.01	43.44	V-C	6.8946E+04	-4.800	48.00	
1.000	1.000	91.44	0.000	0.000	Ug5_2_8_L_0						
26 D	18.90	-1.1496E-20	62.41	44.51	62.41	44.51	V-C	6.8946E+04	-5.000	50.00	
1.000	1.000	94.51	0.000	0.000	Ug5_2_8_L_0						
27 D	19.51	-1.3391E-20	64.61	45.56	64.61	45.56	V-C	6.8946E+04	-5.200	52.00	
1.000	1.000	97.56	0.000	0.000	Ug5_2_8_L_0						
28 D	20.12	-1.5198E-20	66.82	46.59	66.82	46.59	V-C	6.8946E+04	-5.400	54.00	
1.000	1.000	100.6	0.000	0.000	Ug5_2_8_L_0						
29 D	20.72	-1.6855E-20	69.03	47.60	69.03	47.60	V-C	6.8946E+04	-5.600	56.00	
1.000	1.000	103.6	0.000	0.000	Ug5_2_8_L_0						
30 D	21.32	-1.8294E-20	71.25	48.59	71.25	48.59	V-C	6.8946E+04	-5.800	58.00	
1.000	1.000	106.6	0.000	0.000	Ug5_2_8_L_0						
31 D	21.91	-1.9441E-20	73.47	49.56	73.47	49.56	V-C	6.8946E+04	-6.000	60.00	
1.000	1.000	109.6	0.000	0.000	Ug5_2_8_L_0						
32 D	22.50	-2.0236E-20	75.70	50.51	75.70	50.51	V-C	6.8946E+04	-6.200	62.00	
1.000	1.000	112.5	0.000	0.000	Ug5_2_8_L_0						
33 D	23.09	-2.0682E-20	77.92	51.46	77.92	51.46	V-C	6.8946E+04	-6.400	64.00	

1.000	1.000	115.5	0.000	0.000	Ug5_2_8_L_0					
34 D	23.68	-2.0790E-20	80.38	52.39	80.38	52.39	V-C	6.8946E+04	-6.600	66.00
1.000	1.000	118.4	0.000	0.000	Ug5_2_8_L_0					
35 D	24.26	-2.0568E-20	82.75	53.31	82.75	53.31	V-C	6.8946E+04	-6.800	68.00
1.000	1.000	121.3	0.000	0.000	Ug5_2_8_L_0					
36 D	24.84	-2.0016E-20	85.67	54.22	85.67	54.22	V-C	6.8946E+04	-7.000	70.00
1.000	1.000	124.2	0.000	0.000	Ug5_2_8_L_0					
37 D	25.42	-1.9130E-20	88.00	55.12	88.00	55.12	V-C	6.8946E+04	-7.200	72.00
1.000	1.000	127.1	0.000	0.000	Ug5_2_8_L_0					
38 D	26.00	-1.7897E-20	90.86	56.01	90.86	56.01	V-C	6.8946E+04	-7.400	74.00
1.000	1.000	130.0	0.000	0.000	Ug5_2_8_L_0					
39 D	26.58	-1.6300E-20	93.16	56.89	93.16	56.89	V-C	6.8946E+04	-7.600	76.00
1.000	1.000	132.9	0.000	0.000	Ug5_2_8_L_0					
40 D	27.15	-1.4319E-20	95.97	57.77	95.97	57.77	V-C	6.8946E+04	-7.800	78.00
1.000	1.000	135.8	0.000	0.000	Ug5_2_8_L_0					
41 D	27.73	-1.1908E-20	98.74	58.64	98.74	58.64	V-C	6.8946E+04	-8.000	80.00
1.000	1.000	138.6	0.000	0.000	Ug5_2_8_L_0					
42 D	28.30	-8.9515E-21	101.0	59.51	101.0	59.51	V-C	6.8946E+04	-8.200	82.00
1.000	1.000	141.5	0.000	0.000	Ug5_2_8_L_0					
43 D	28.87	-5.3138E-21	103.7	60.37	103.7	60.37	V-C	6.8946E+04	-8.400	84.00
1.000	1.000	144.4	0.000	0.000	Ug5_2_8_L_0					
44 D	29.45	-8.5722E-22	105.9	61.23	105.9	61.23	V-C	6.8946E+04	-8.600	86.00
1.000	1.000	147.2	0.000	0.000	Ug5_2_8_L_0					
45 D	30.02	4.5550E-21	108.6	62.09	108.6	62.09	V-C	6.8946E+04	-8.800	88.00
1.000	1.000	150.1	0.000	0.000	Ug5_2_8_L_0					
46 D	30.59	1.1040E-20	110.8	62.94	110.8	62.94	V-C	6.8946E+04	-9.000	90.00
1.000	1.000	152.9	0.000	0.000	Ug5_2_8_L_0					
47 D	31.16	1.8626E-20	113.5	63.79	113.5	63.79	V-C	6.8946E+04	-9.200	92.00
1.000	1.000	155.8	0.000	0.000	Ug5_2_8_L_0					
48 D	31.73	2.7247E-20	115.7	64.64	115.7	64.64	V-C	6.8946E+04	-9.400	94.00
1.000	1.000	158.6	0.000	0.000	Ug5_2_8_L_0					
49 D	32.30	3.6828E-20	118.3	65.48	118.3	65.48	V-C	6.8946E+04	-9.600	96.00
1.000	1.000	161.5	0.000	0.000	Ug5_2_8_L_0					
50 D	32.86	4.7355E-20	120.5	66.32	120.5	66.32	V-C	6.8946E+04	-9.800	98.00
1.000	1.000	164.3	0.000	0.000	Ug5_2_8_L_0					
51 D	33.43	5.8816E-20	123.1	67.17	123.1	67.17	V-C	6.8946E+04	-10.00	100.00
1.000	1.000	167.2	0.000	0.000	Ug5_2_8_L_0					
52 D	34.00	7.1182E-20	125.2	68.01	125.2	68.01	V-C	6.8946E+04	-10.20	102.0
1.000	1.000	170.0	0.000	0.000	Ug5_2_8_L_0					
53 D	34.57	8.4404E-20	127.8	68.85	127.8	68.85	V-C	6.8946E+04	-10.40	104.0
1.000	1.000	172.8	0.000	0.000	Ug5_2_8_L_0					
54 D	35.14	9.8412E-20	130.3	69.69	130.3	69.69	V-C	6.8946E+04	-10.60	106.0
1.000	1.000	175.7	0.000	0.000	Ug5_2_8_L_0					
55 D	35.70	1.1311E-19	132.5	70.52	132.5	70.52	V-C	6.8946E+04	-10.80	108.0
1.000	1.000	178.5	0.000	0.000	Ug5_2_8_L_0					
56 D	36.27	1.2837E-19	135.0	71.36	135.0	71.36	V-C	6.8946E+04	-11.00	110.0
1.000	1.000	181.4	0.000	0.000	Ug5_2_8_L_0					
57 D	36.84	1.4402E-19	137.2	72.20	137.2	72.20	V-C	6.8946E+04	-11.20	112.0
1.000	1.000	184.2	0.000	0.000	Ug5_2_8_L_0					
58 D	37.41	1.5988E-19	139.6	73.04	139.6	73.04	V-C	6.8946E+04	-11.40	114.0
1.000	1.000	187.0	0.000	0.000	Ug5_2_8_L_0					
59 D	37.98	1.7573E-19	141.8	73.88	141.8	73.88	V-C	6.8946E+04	-11.60	116.0
1.000	1.000	189.9	0.000	0.000	Ug5_2_8_L_0					
60 D	38.54	1.9149E-19	144.3	74.72	144.3	74.72	V-C	6.8946E+04	-11.80	118.0
1.000	1.000	192.7	0.000	0.000	Ug5_2_8_L_0					
61 D	19.56	2.0722E-19	146.4	75.56	146.4	75.56	V-C	6.8946E+04	-12.00	120.0
1.000	1.000	195.6	0.000	0.000	Ug5_2_8_L_0					

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION *Build date:Jul 11, 2017*          |
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New Project

STRESS RESULTS FOR GROUP NO. 2

0\_R :  
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 61  
CURRENT TIME IS 1.0000

HARDENING 2D SOIL ELEMENT

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

EL * FACTOR	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
1 D	0.000	-2.5825E-21	0.000	0.000	0.000	0.000	V-C	3.4277E+04	0.000	0.000	
1.000	1.000	0.000	0.000	0.000	Ug5_2_8_L_0						
2 D	1.333	-2.7530E-21	2.000	4.664	2.000	4.664	V-C	3.4277E+04	-0.2000	2.000	
1.000	1.000	6.664	0.000	0.000	Ug5_2_8_L_0						
3 D	2.452	-2.9226E-21	4.000	8.262	4.000	8.262	V-C	3.4277E+04	-0.4000	4.000	
1.000	1.000	12.26	0.000	0.000	Ug5_2_8_L_0						
4 D	3.398	-3.0890E-21	6.000	10.99	6.000	10.99	V-C	3.4277E+04	-0.6000	6.000	
1.000	1.000	16.99	0.000	0.000	Ug5_2_8_L_0						
5 D	4.258	-3.2489E-21	8.000	13.29	8.000	13.29	V-C	3.4277E+04	-0.8000	8.000	
1.000	1.000	21.29	0.000	0.000	Ug5_2_8_L_0						
6 D	5.076	-3.3973E-21	10.00	15.38	10.00	15.38	V-C	3.4277E+04	-1.000	10.00	
1.000	1.000	25.38	0.000	0.000	Ug5_2_8_L_0						
7 D	5.870	-3.5279E-21	12.00	17.35	12.00	17.35	V-C	3.4277E+04	-1.200	12.00	
1.000	1.000	29.35	0.000	0.000	Ug5_2_8_L_0						
8 D	6.649	-3.6332E-21	14.00	19.25	14.00	19.25	V-C	3.4277E+04	-1.400	14.00	
1.000	1.000	33.25	0.000	0.000	Ug5_2_8_L_0						
9 D	7.415	-3.7046E-21	16.00	21.08	16.00	21.08	V-C	3.4277E+04	-1.600	16.00	
1.000	1.000	37.08	0.000	0.000	Ug5_2_8_L_0						
10 D	8.169	-3.7319E-21	18.00	22.85	18.00	22.85	V-C	3.4277E+04	-1.800	18.00	
1.000	1.000	40.85	0.000	0.000	Ug5_2_8_L_0						
11 D	8.912	-3.7042E-21	20.00	24.56	20.00	24.56	V-C	3.4277E+04	-2.000	20.00	
1.000	1.000	44.56	0.000	0.000	Ug5_2_8_L_0						
12 D	9.643	-3.6093E-21	22.00	26.22	22.00	26.22	V-C	3.4277E+04	-2.200	22.00	
1.000	1.000	48.22	0.000	0.000	Ug5_2_8_L_0						
13 D	10.36	-3.4340E-21	24.00	27.82	24.00	27.82	V-C	3.4277E+04	-2.400	24.00	
1.000	1.000	51.82	0.000	0.000	Ug5_2_8_L_0						
14 D	11.07	-3.1647E-21	26.00	29.37	26.00	29.37	V-C	3.4277E+04	-2.600	26.00	
1.000	1.000	55.37	0.000	0.000	Ug5_2_8_L_0						
15 D	11.77	-2.7867E-21	28.00	30.86	28.00	30.86	V-C	3.4277E+04	-2.800	28.00	
1.000	1.000	58.86	0.000	0.000	Ug5_2_8_L_0						
16 D	12.46	-2.2852E-21	30.00	32.31	30.00	32.31	V-C	3.4277E+04	-3.000	30.00	
1.000	1.000	62.31	0.000	0.000	Ug5_2_8_L_0						
17 D	13.14	-1.6450E-21	32.00	33.71	32.00	33.71	V-C	3.4277E+04	-3.200	32.00	
1.000	1.000	65.71	0.000	0.000	Ug5_2_8_L_0						
18 D	13.81	-8.5105E-22	34.00	35.06	34.00	35.06	V-C	3.4277E+04	-3.400	34.00	
1.000	1.000	69.06	0.000	0.000	Ug5_2_8_L_0						
19 D	14.47	1.1154E-22	36.00	36.37	36.00	36.37	V-C	3.4277E+04	-3.600	36.00	
1.000	1.000	72.37	0.000	0.000	Ug5_2_8_L_0						
20 D	15.13	1.2569E-21	38.00	37.63	38.00	37.63	V-C	3.4277E+04	-3.800	38.00	
1.000	1.000	75.63	0.000	0.000	Ug5_2_8_L_0						
21 D	15.77	2.5980E-21	40.00	38.86	40.00	38.86	V-C	3.4277E+04	-4.000	40.00	
1.000	1.000	78.86	0.000	0.000	Ug5_2_8_L_0						
22 D	16.41	4.1381E-21	42.00	40.06	42.00	40.06	V-C	3.4277E+04	-4.200	42.00	
1.000	1.000	82.06	0.000	0.000	Ug5_2_8_L_0						
23 D	17.04	5.8437E-21	44.00	41.21	44.00	41.21	V-C	3.4277E+04	-4.400	44.00	
1.000	1.000	85.21	0.000	0.000	Ug5_2_8_L_0						
24 D	17.67	7.6705E-21	46.00	42.34	46.00	42.34	V-C	3.4277E+04	-4.600	46.00	
1.000	1.000	88.34	0.000	0.000	Ug5_2_8_L_0						
25 D	18.29	9.5714E-21	48.00	43.44	48.00	43.44	V-C	3.4277E+04	-4.800	48.00	
1.000	1.000	91.44	0.000	0.000	Ug5_2_8_L_0						
26 D	18.90	1.1496E-20	50.00	44.51	50.00	44.51	V-C	3.4277E+04	-5.000	50.00	
1.000	1.000	94.51	0.000	0.000	Ug5_2_8_L_0						
27 D	19.51	1.3391E-20	52.00	45.56	52.00	45.56	V-C	3.4277E+04	-5.200	52.00	
1.000	1.000	97.56	0.000	0.000	Ug5_2_8_L_0						
28 D	20.12	1.5198E-20	54.00	46.59	54.00	46.59	V-C	3.4277E+04	-5.400	54.00	
1.000	1.000	100.6	0.000	0.000	Ug5_2_8_L_0						
29 D	20.72	1.6855E-20	56.00	47.60	56.00	47.60	V-C	3.4277E+04	-5.600	56.00	
1.000	1.000	103.6	0.000	0.000	Ug5_2_8_L_0						
30 D	21.32	1.8294E-20	58.00	48.59	58.00	48.59	V-C	3.4277E+04	-5.800	58.00	
1.000	1.000	106.6	0.000	0.000	Ug5_2_8_L_0						
31 D	21.91	1.9441E-20	60.00	49.56	60.00	49.56	V-C	3.4277E+04	-6.000	60.00	
1.000	1.000	109.6	0.000	0.000	Ug5_2_8_L_0						
32 D	22.50	2.0236E-20	62.00	50.51	62.00	50.51	V-C	3.4277E+04	-6.200	62.00	
1.000	1.000	112.5	0.000	0.000	Ug5_2_8_L_0						
33 D	23.09	2.0682E-20	64.00	51.46	64.00	51.46	V-C	3.4277E+04	-6.400	64.00	

1.000	1.000	115.5	0.000	0.000	0.000	Ug5_2_8_L_0					
34 D	23.68	2.0790E-20	66.00	52.39	66.00	52.39	V-C	3.4277E+04	-6.600	66.00	
1.000	1.000	118.4	0.000	0.000	0.000	Ug5_2_8_L_0					
35 D	24.26	2.0568E-20	68.00	53.31	68.00	53.31	V-C	3.4277E+04	-6.800	68.00	
1.000	1.000	121.3	0.000	0.000	0.000	Ug5_2_8_L_0					
36 D	24.84	2.0016E-20	70.00	54.22	70.00	54.22	V-C	3.4277E+04	-7.000	70.00	
1.000	1.000	124.2	0.000	0.000	0.000	Ug5_2_8_L_0					
37 D	25.42	1.9130E-20	72.00	55.12	72.00	55.12	V-C	3.4277E+04	-7.200	72.00	
1.000	1.000	127.1	0.000	0.000	0.000	Ug5_2_8_L_0					
38 D	26.00	1.7897E-20	74.00	56.01	74.00	56.01	V-C	3.4277E+04	-7.400	74.00	
1.000	1.000	130.0	0.000	0.000	0.000	Ug5_2_8_L_0					
39 D	26.58	1.6300E-20	76.00	56.89	76.00	56.89	V-C	3.4277E+04	-7.600	76.00	
1.000	1.000	132.9	0.000	0.000	0.000	Ug5_2_8_L_0					
40 D	27.15	1.4319E-20	78.00	57.77	78.00	57.77	V-C	3.4277E+04	-7.800	78.00	
1.000	1.000	135.8	0.000	0.000	0.000	Ug5_2_8_L_0					
41 D	27.73	1.1908E-20	80.00	58.64	80.00	58.64	V-C	3.4277E+04	-8.000	80.00	
1.000	1.000	138.6	0.000	0.000	0.000	Ug5_2_8_L_0					
42 D	28.30	8.9515E-21	82.00	59.51	82.00	59.51	V-C	3.4277E+04	-8.200	82.00	
1.000	1.000	141.5	0.000	0.000	0.000	Ug5_2_8_L_0					
43 D	28.87	5.3138E-21	84.00	60.37	84.00	60.37	V-C	3.4277E+04	-8.400	84.00	
1.000	1.000	144.4	0.000	0.000	0.000	Ug5_2_8_L_0					
44 D	29.45	8.5722E-22	86.00	61.23	86.00	61.23	V-C	3.4277E+04	-8.600	86.00	
1.000	1.000	147.2	0.000	0.000	0.000	Ug5_2_8_L_0					
45 D	30.02	-4.5550E-21	88.00	62.09	88.00	62.09	V-C	3.4277E+04	-8.800	88.00	
1.000	1.000	150.1	0.000	0.000	0.000	Ug5_2_8_L_0					
46 D	30.59	-1.1040E-20	90.00	62.94	90.00	62.94	V-C	3.4277E+04	-9.000	90.00	
1.000	1.000	152.9	0.000	0.000	0.000	Ug5_2_8_L_0					
47 D	31.16	-1.8626E-20	92.00	63.79	92.00	63.79	V-C	3.4277E+04	-9.200	92.00	
1.000	1.000	155.8	0.000	0.000	0.000	Ug5_2_8_L_0					
48 D	31.73	-2.7247E-20	94.00	64.64	94.00	64.64	V-C	3.4277E+04	-9.400	94.00	
1.000	1.000	158.6	0.000	0.000	0.000	Ug5_2_8_L_0					
49 D	32.30	-3.6828E-20	96.00	65.48	96.00	65.48	V-C	3.4277E+04	-9.600	96.00	
1.000	1.000	161.5	0.000	0.000	0.000	Ug5_2_8_L_0					
50 D	32.86	-4.7355E-20	98.00	66.32	98.00	66.32	V-C	3.4277E+04	-9.800	98.00	
1.000	1.000	164.3	0.000	0.000	0.000	Ug5_2_8_L_0					
51 D	33.43	-5.8816E-20	100.00	67.17	100.00	67.17	V-C	3.4277E+04	-10.000	100.00	
1.000	1.000	167.2	0.000	0.000	0.000	Ug5_2_8_L_0					
52 D	34.00	-7.1182E-20	102.0	68.01	102.0	68.01	V-C	3.4277E+04	-10.200	102.0	
1.000	1.000	170.0	0.000	0.000	0.000	Ug5_2_8_L_0					
53 D	34.57	-8.4404E-20	104.0	68.85	104.0	68.85	V-C	3.4277E+04	-10.400	104.0	
1.000	1.000	172.8	0.000	0.000	0.000	Ug5_2_8_L_0					
54 D	35.14	-9.8412E-20	106.0	69.69	106.0	69.69	V-C	3.4277E+04	-10.600	106.0	
1.000	1.000	175.7	0.000	0.000	0.000	Ug5_2_8_L_0					
55 D	35.70	-1.1311E-19	108.0	70.52	108.0	70.52	V-C	3.4277E+04	-10.800	108.0	
1.000	1.000	178.5	0.000	0.000	0.000	Ug5_2_8_L_0					
56 D	36.27	-1.2837E-19	110.0	71.36	110.0	71.36	V-C	3.4277E+04	-11.000	110.0	
1.000	1.000	181.4	0.000	0.000	0.000	Ug5_2_8_L_0					
57 D	36.84	-1.4402E-19	112.0	72.20	112.0	72.20	V-C	3.4277E+04	-11.200	112.0	
1.000	1.000	184.2	0.000	0.000	0.000	Ug5_2_8_L_0					
58 D	37.41	-1.5988E-19	114.0	73.04	114.0	73.04	V-C	3.4277E+04	-11.400	114.0	
1.000	1.000	187.0	0.000	0.000	0.000	Ug5_2_8_L_0					
59 D	37.98	-1.7573E-19	116.0	73.88	116.0	73.88	V-C	3.4277E+04	-11.600	116.0	
1.000	1.000	189.9	0.000	0.000	0.000	Ug5_2_8_L_0					
60 D	38.54	-1.9149E-19	118.0	74.72	118.0	74.72	V-C	3.4277E+04	-11.800	118.0	
1.000	1.000	192.7	0.000	0.000	0.000	Ug5_2_8_L_0					
61 D	19.56	-2.0722E-19	120.0	75.56	120.0	75.56	V-C	3.4277E+04	-12.000	120.0	
1.000	1.000	195.6	0.000	0.000	0.000	Ug5_2_8_L_0					



MIN UN=-.2465E-16 IEQ= 1 NODE 1 DOF 1 Y-DISPL.F  
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 2 RNORM = 0.000 RMNORM= 0.000  
RINORM=0.6184E+05 RIMNOR=0.1258E-26  
RENORM= 7.693 REMNOR=0.8461E-23 RATIO =0.1115E-01 TOLER =0.1000E-03 NOT CONVERGED  
RFMAX = 38.03 RMMAX =0.7647E-14  
RTSMAL=0.1000E-03 RMSMAL=0.1000E-19  
RDT =0.6184E+05 RDR =0.1000E-19  
RATIOT=0.1115E-01 RATIOOR= 0.000  
MAX UN= 2.072 IEQ= 3 NODE 2 DOF 1 Y-DISPL.F  
MIN UN=-.5125E-11 IEQ= 13 NODE 7 DOF 1 Y-DISPL.F  
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 3 RNORM = 0.000 RMNORM= 0.000  
RINORM=0.6184E+05 RIMNOR=0.1258E-26  
RENORM= 3.079 REMNOR=0.2623E-23 RATIO =0.7056E-02 TOLER =0.1000E-03 NOT CONVERGED  
RFMAX = 38.03 RMMAX =0.7647E-14  
RTSMAL=0.1000E-03 RMSMAL=0.1000E-19  
RDT =0.6184E+05 RDR =0.1000E-19  
RATIOT=0.7056E-02 RATIOOR= 0.000  
MAX UN= 1.518 IEQ= 13 NODE 7 DOF 1 Y-DISPL.F  
MIN UN=-.3013E-11 IEQ= 1 NODE 1 DOF 1 Y-DISPL.F  
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 4 RNORM = 0.000 RMNORM= 0.000  
RINORM=0.6184E+05 RIMNOR=0.1258E-26  
RENORM=0.7256E-01 REMNOR=0.3621E-23 RATIO =0.1083E-02 TOLER =0.1000E-03 NOT CONVERGED  
RFMAX = 38.03 RMMAX =0.7647E-14  
RTSMAL=0.1000E-03 RMSMAL=0.1000E-19  
RDT =0.6184E+05 RDR =0.1000E-19  
RATIOT=0.1083E-02 RATIOOR= 0.000  
MAX UN=0.2691 IEQ= 19 NODE 10 DOF 1 Y-DISPL.F  
MIN UN=-.1198E-10 IEQ= 9 NODE 5 DOF 1 Y-DISPL.F  
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 5 RNORM = 0.000 RMNORM= 0.000  
RINORM=0.6184E+05 RIMNOR=0.1258E-26  
RENORM=0.2159E-21 REMNOR=0.1352E-23 RATIO =0.5909E-13 TOLER =0.1000E-03 CONVERGED !  
RFMAX = 38.03 RMMAX =0.7647E-14  
RTSMAL=0.1000E-03 RMSMAL=0.1000E-19  
RDT =0.6184E+05 RDR =0.1000E-19  
RATIOT=0.5909E-13 RATIOOR= 0.000  
MAX UN=0.5107E-11 IEQ= 13 NODE 7 DOF 1 Y-DISPL.F  
MIN UN=-.7597E-11 IEQ= 9 NODE 5 DOF 1 Y-DISPL.F  
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
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New Project
SOLUTION REACHED USING      5 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   2   ( AT TIME  2.000   )

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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	2.1253838E-04	-7.1209857E-05	
2	1.9829641E-04	-7.1209857E-05	
3	1.8405684E-04	-7.1173790E-05	
4	1.6983662E-04	-7.0991895E-05	
5	1.5568218E-04	-7.0478510E-05	
6	1.4168488E-04	-6.9370152E-05	
7	1.2799663E-04	-6.7324247E-05	
8	1.1483107E-04	-6.4140017E-05	
9	1.0240931E-04	-5.9925425E-05	
10	9.0912964E-05	-5.4929797E-05	
11	8.0470972E-05	-4.9430458E-05	
12	7.1155634E-05	-4.3708325E-05	
13	6.2986518E-05	-3.8003053E-05	
14	5.5941154E-05	-3.2496675E-05	
15	4.9965767E-05	-2.7321517E-05	
16	4.4984447E-05	-2.2567864E-05	
17	4.0906804E-05	-1.8291173E-05	
18	3.7634334E-05	-1.4518812E-05	
19	3.5065314E-05	-1.1255929E-05	
20	3.3098818E-05	-8.4902165E-06	
21	3.1637852E-05	-6.1952430E-06	
22	3.0591808E-05	-4.3340732E-06	
23	2.9878196E-05	-2.8632922E-06	
24	2.9423581E-05	-1.7361681E-06	
25	2.9163985E-05	-9.0520231E-07	
26	2.9044844E-05	-3.2407584E-07	
27	2.9020613E-05	5.0913352E-08	
28	2.9054139E-05	2.5985183E-07	
29	2.9115871E-05	3.3854985E-07	
30	2.9182955E-05	3.1818678E-07	
31	2.9238302E-05	2.2517072E-07	
32	2.9269647E-05	8.1505534E-08	
33	2.9268741E-05	-9.4602464E-08	
34	2.9230629E-05	-2.8836672E-07	
35	2.9152996E-05	-4.8810104E-07	
36	2.9035586E-05	-6.8486465E-07	
37	2.8879687E-05	-8.7209604E-07	
38	2.8687687E-05	-1.0452565E-06	
39	2.8462713E-05	-1.2014818E-06	
40	2.8208323E-05	-1.3392680E-06	
41	2.7928264E-05	-1.4581843E-06	
42	2.7626282E-05	-1.5586190E-06	
43	2.7305982E-05	-1.6415609E-06	
44	2.6970730E-05	-1.7084134E-06	
45	2.6623580E-05	-1.7608404E-06	
46	2.6267237E-05	-1.8006433E-06	
47	2.5904042E-05	-1.8296608E-06	
48	2.5535972E-05	-1.8496951E-06	
49	2.5164649E-05	-1.8624563E-06	
50	2.4791371E-05	-1.8695233E-06	
51	2.4417126E-05	-1.8723184E-06	
52	2.4042635E-05	-1.8720919E-06	
53	2.3668429E-05	-1.8699156E-06	
54	2.3294758E-05	-1.8666801E-06	
55	2.2921780E-05	-1.8630983E-06	
56	2.2549506E-05	-1.8597086E-06	
57	2.2177859E-05	-1.8568805E-06	
58	2.1806703E-05	-1.8548189E-06	
59	2.1435877E-05	-1.8535682E-06	
60	2.1065229E-05	-1.8530148E-06	
61	2.0694625E-05	-1.8528884E-06	



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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
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|          NewProject.BaseDesignSection_28.A1M1R1_1757  |
|          Exe Time :24 May 2018          18:23:40  |
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New Project

STRESS RESULTS FOR GROUP NO. 1

0\_L  
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 61  
CURRENT TIME IS 2.0000

HARDENING 2D SOIL ELEMENT

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

EL * FACTOR	FORCE UFACOR	DISPL-Y Peq	VERTICAL-P Su_a	HORIZON.-P Su_p	MAX-V-P LAYER	MAX-H-P	STATE	STIFFNESS	Z-LEVEL	PORE	E
1 D	0.000	-2.1254E-04	0.000	0.000	0.000	0.000	ACTIVE	0.000	0.000	0.000	
1.000	1.000	0.000	0.000	0.000	Ug5_2_8_L_0						
2 D	0.4931	-1.9830E-04	2.219	0.5525	2.219	4.707	ACTIVE	0.000	-0.2000	1.913	
1.000	1.000	2.465	0.000	0.000	Ug5_2_8_L_0						
3 D	1.008	-1.8406E-04	4.866	1.212	4.866	8.349	ACTIVE	0.000	-0.4000	3.826	
1.000	1.000	5.038	0.000	0.000	Ug5_2_8_L_0						
4 D	1.531	-1.6984E-04	7.690	1.915	7.690	11.12	ACTIVE	0.000	-0.6000	5.739	
1.000	1.000	7.654	0.000	0.000	Ug5_2_8_L_0						
5 D	2.072	-1.5568E-04	10.86	2.705	10.86	13.46	ACTIVE	0.000	-0.8000	7.652	
1.000	1.000	10.36	0.000	0.000	Ug5_2_8_L_0						
6 D	2.612	-1.4168E-04	14.04	3.495	14.04	15.59	ACTIVE	0.000	-1.000	9.565	
1.000	1.000	13.06	0.000	0.000	Ug5_2_8_L_0						
7 D	3.128	-1.2800E-04	16.72	4.163	16.72	17.61	ACTIVE	0.000	-1.200	11.48	
1.000	1.000	15.64	0.000	0.000	Ug5_2_8_L_0						
8 D	3.639	-1.1483E-04	19.30	4.806	19.30	19.55	ACTIVE	0.000	-1.400	13.39	
1.000	1.000	18.20	0.000	0.000	Ug5_2_8_L_0						
9 D	4.156	-1.0241E-04	21.98	5.474	21.98	21.42	ACTIVE	0.000	-1.600	15.30	
1.000	1.000	20.78	0.000	0.000	Ug5_2_8_L_0						
10 D	4.661	-9.0913E-05	24.45	6.089	24.45	23.24	ACTIVE	0.000	-1.800	17.22	
1.000	1.000	23.31	0.000	0.000	Ug5_2_8_L_0						
11 D	5.496	-8.0471E-05	27.04	8.349	27.04	24.99	UL-RL	2.0684E+05	-2.000	19.13	
1.000	1.000	27.48	0.000	0.000	Ug5_2_8_L_0						
12 D	6.604	-7.1156E-05	29.48	11.98	29.48	26.69	UL-RL	2.0684E+05	-2.200	21.04	
1.000	1.000	33.02	0.000	0.000	Ug5_2_8_L_0						
13 D	7.654	-6.2987E-05	32.03	15.31	32.03	28.34	UL-RL	2.0684E+05	-2.400	22.96	
1.000	1.000	38.27	0.000	0.000	Ug5_2_8_L_0						
14 D	8.646	-5.5941E-05	34.47	18.36	34.47	29.93	UL-RL	2.0684E+05	-2.600	24.87	
1.000	1.000	43.23	0.000	0.000	Ug5_2_8_L_0						
15 D	9.584	-4.9966E-05	37.01	21.14	37.01	31.47	UL-RL	2.0684E+05	-2.800	26.78	
1.000	1.000	47.92	0.000	0.000	Ug5_2_8_L_0						
16 D	10.47	-4.4984E-05	39.47	23.66	39.47	32.96	UL-RL	2.0684E+05	-3.000	28.70	
1.000	1.000	52.35	0.000	0.000	Ug5_2_8_L_0						
17 D	11.31	-4.0907E-05	42.01	25.94	42.01	34.40	UL-RL	2.0684E+05	-3.200	30.61	
1.000	1.000	56.55	0.000	0.000	Ug5_2_8_L_0						
18 D	12.11	-3.7634E-05	44.48	28.02	44.48	35.80	UL-RL	2.0684E+05	-3.400	32.52	
1.000	1.000	60.54	0.000	0.000	Ug5_2_8_L_0						
19 D	12.87	-3.5065E-05	46.96	29.90	46.96	37.15	UL-RL	2.0684E+05	-3.600	34.43	
1.000	1.000	64.33	0.000	0.000	Ug5_2_8_L_0						
20 D	13.59	-3.3099E-05	49.52	31.61	49.52	38.46	UL-RL	2.0684E+05	-3.800	36.35	
1.000	1.000	67.96	0.000	0.000	Ug5_2_8_L_0						
21 D	14.29	-3.1638E-05	52.01	33.19	52.01	39.73	UL-RL	2.0684E+05	-4.000	38.26	
1.000	1.000	71.45	0.000	0.000	Ug5_2_8_L_0						
22 D	14.96	-3.0592E-05	54.56	34.64	54.56	40.97	UL-RL	2.0684E+05	-4.200	40.17	
1.000	1.000	74.81	0.000	0.000	Ug5_2_8_L_0						
23 D	15.62	-2.9878E-05	57.05	35.99	57.05	42.17	UL-RL	2.0684E+05	-4.400	42.09	
1.000	1.000	78.08	0.000	0.000	Ug5_2_8_L_0						
24 D	16.25	-2.9424E-05	59.60	37.26	59.60	43.34	UL-RL	2.0684E+05	-4.600	44.00	
1.000	1.000	81.26	0.000	0.000	Ug5_2_8_L_0						
25 D	16.87	-2.9164E-05	62.10	38.45	62.10	44.48	UL-RL	2.0684E+05	-4.800	45.91	
1.000	1.000	84.37	0.000	0.000	Ug5_2_8_L_0						
26 D	17.48	-2.9045E-05	64.59	39.59	64.59	45.60	UL-RL	2.0684E+05	-5.000	47.83	
1.000	1.000	87.42	0.000	0.000	Ug5_2_8_L_0						
27 D	18.09	-2.9021E-05	66.87	40.69	66.87	46.69	UL-RL	2.0684E+05	-5.200	49.74	
1.000	1.000	90.43	0.000	0.000	Ug5_2_8_L_0						
28 D	18.68	-2.9054E-05	69.17	41.75	69.17	47.76	UL-RL	2.0684E+05	-5.400	51.65	
1.000	1.000	93.41	0.000	0.000	Ug5_2_8_L_0						
29 D	19.27	-2.9116E-05	71.47	42.79	71.47	48.81	UL-RL	2.0684E+05	-5.600	53.57	
1.000	1.000	96.36	0.000	0.000	Ug5_2_8_L_0						
30 D	19.86	-2.9183E-05	73.77	43.81	73.77	49.85	UL-RL	2.0684E+05	-5.800	55.48	
1.000	1.000	99.29	0.000	0.000	Ug5_2_8_L_0						
31 D	20.44	-2.9238E-05	76.08	44.81	76.08	50.86	UL-RL	2.0684E+05	-6.000	57.39	
1.000	1.000	102.2	0.000	0.000	Ug5_2_8_L_0						
32 D	21.02	-2.9270E-05	78.39	45.81	78.39	51.86	UL-RL	2.0684E+05	-6.200	59.30	
1.000	1.000	105.1	0.000	0.000	Ug5_2_8_L_0						
33 D	21.60	-2.9269E-05	80.70	46.79	80.70	52.85	UL-RL	2.0684E+05	-6.400	61.22	

1.000	1.000	108.0	0.000	0.000	Ug5_2_8_L_0					
34 D	22.18	-2.9231E-05	83.25	47.78	83.25	53.82	UL-RL	2.0684E+05	-6.600	63.13
1.000	1.000	110.9	0.000	0.000	Ug5_2_8_L_0					
35 D	22.76	-2.9153E-05	85.70	48.76	85.70	54.79	UL-RL	2.0684E+05	-6.800	65.04
1.000	1.000	113.8	0.000	0.000	Ug5_2_8_L_0					
36 D	23.34	-2.9036E-05	88.72	49.73	88.72	55.74	UL-RL	2.0684E+05	-7.000	66.96
1.000	1.000	116.7	0.000	0.000	Ug5_2_8_L_0					
37 D	23.92	-2.8880E-05	91.13	50.71	91.13	56.68	UL-RL	2.0684E+05	-7.200	68.87
1.000	1.000	119.6	0.000	0.000	Ug5_2_8_L_0					
38 D	24.49	-2.8688E-05	94.08	51.68	94.08	57.62	UL-RL	2.0684E+05	-7.400	70.78
1.000	1.000	122.5	0.000	0.000	Ug5_2_8_L_0					
39 D	25.07	-2.8463E-05	96.47	52.66	96.47	58.55	UL-RL	2.0684E+05	-7.600	72.70
1.000	1.000	125.4	0.000	0.000	Ug5_2_8_L_0					
40 D	25.65	-2.8208E-05	99.36	53.63	99.36	59.47	UL-RL	2.0684E+05	-7.800	74.61
1.000	1.000	128.2	0.000	0.000	Ug5_2_8_L_0					
41 D	26.23	-2.7928E-05	102.2	54.61	102.2	60.38	UL-RL	2.0684E+05	-8.000	76.52
1.000	1.000	131.1	0.000	0.000	Ug5_2_8_L_0					
42 D	26.80	-2.7626E-05	104.6	55.58	104.6	61.29	UL-RL	2.0684E+05	-8.200	78.43
1.000	1.000	134.0	0.000	0.000	Ug5_2_8_L_0					
43 D	27.38	-2.7306E-05	107.4	56.55	107.4	62.20	UL-RL	2.0684E+05	-8.400	80.35
1.000	1.000	136.9	0.000	0.000	Ug5_2_8_L_0					
44 D	27.96	-2.6971E-05	109.7	57.52	109.7	63.10	UL-RL	2.0684E+05	-8.600	82.26
1.000	1.000	139.8	0.000	0.000	Ug5_2_8_L_0					
45 D	28.53	-2.6624E-05	112.5	58.49	112.5	64.00	UL-RL	2.0684E+05	-8.800	84.17
1.000	1.000	142.7	0.000	0.000	Ug5_2_8_L_0					
46 D	29.11	-2.6267E-05	114.8	59.46	114.8	64.90	UL-RL	2.0684E+05	-9.000	86.09
1.000	1.000	145.6	0.000	0.000	Ug5_2_8_L_0					
47 D	29.69	-2.5904E-05	117.5	60.43	117.5	65.79	UL-RL	2.0684E+05	-9.200	88.00
1.000	1.000	148.4	0.000	0.000	Ug5_2_8_L_0					
48 D	30.26	-2.5536E-05	119.8	61.40	119.8	66.68	UL-RL	2.0684E+05	-9.400	89.91
1.000	1.000	151.3	0.000	0.000	Ug5_2_8_L_0					
49 D	30.84	-2.5165E-05	122.5	62.36	122.5	67.57	UL-RL	2.0684E+05	-9.600	91.83
1.000	1.000	154.2	0.000	0.000	Ug5_2_8_L_0					
50 D	31.41	-2.4791E-05	124.8	63.33	124.8	68.45	UL-RL	2.0684E+05	-9.800	93.74
1.000	1.000	157.1	0.000	0.000	Ug5_2_8_L_0					
51 D	31.99	-2.4417E-05	127.4	64.29	127.4	69.34	UL-RL	2.0684E+05	-10.00	95.65
1.000	1.000	159.9	0.000	0.000	Ug5_2_8_L_0					
52 D	32.56	-2.4043E-05	129.7	65.25	129.7	70.22	UL-RL	2.0684E+05	-10.20	97.57
1.000	1.000	162.8	0.000	0.000	Ug5_2_8_L_0					
53 D	33.14	-2.3668E-05	132.3	66.21	132.3	71.11	UL-RL	2.0684E+05	-10.40	99.48
1.000	1.000	165.7	0.000	0.000	Ug5_2_8_L_0					
54 D	33.71	-2.3295E-05	134.9	67.17	134.9	71.99	UL-RL	2.0684E+05	-10.60	101.4
1.000	1.000	168.6	0.000	0.000	Ug5_2_8_L_0					
55 D	34.29	-2.2922E-05	137.2	68.13	137.2	72.87	UL-RL	2.0684E+05	-10.80	103.3
1.000	1.000	171.4	0.000	0.000	Ug5_2_8_L_0					
56 D	34.86	-2.2550E-05	139.8	69.09	139.8	73.75	UL-RL	2.0684E+05	-11.00	105.2
1.000	1.000	174.3	0.000	0.000	Ug5_2_8_L_0					
57 D	35.44	-2.2178E-05	142.0	70.05	142.0	74.64	UL-RL	2.0684E+05	-11.20	107.1
1.000	1.000	177.2	0.000	0.000	Ug5_2_8_L_0					
58 D	36.01	-2.1807E-05	144.6	71.01	144.6	75.52	UL-RL	2.0684E+05	-11.40	109.0
1.000	1.000	180.1	0.000	0.000	Ug5_2_8_L_0					
59 D	36.58	-2.1436E-05	146.8	71.97	146.8	76.40	UL-RL	2.0684E+05	-11.60	111.0
1.000	1.000	182.9	0.000	0.000	Ug5_2_8_L_0					
60 D	37.16	-2.1065E-05	149.4	72.93	149.4	77.28	UL-RL	2.0684E+05	-11.80	112.9
1.000	1.000	185.8	0.000	0.000	Ug5_2_8_L_0					
61 D	18.87	-2.0695E-05	151.6	73.88	151.6	78.16	UL-RL	2.0684E+05	-12.00	114.8
1.000	1.000	188.7	0.000	0.000	Ug5_2_8_L_0					

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION *Build date:Jul 11, 2017*          |
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New Project

STRESS RESULTS FOR GROUP NO. 2

0\_R  
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 61  
CURRENT TIME IS 2.0000

HARDENING 2D SOIL ELEMENT

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

EL * FACTOR	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
1	0.000	--	--	--	--	--	REMOVED	--	0.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
2	0.000	--	--	--	--	--	REMOVED	--	-0.2000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
3	0.000	--	--	--	--	--	REMOVED	--	-0.4000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
4	0.000	--	--	--	--	--	REMOVED	--	-0.6000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
5	0.000	--	--	--	--	--	REMOVED	--	-0.8000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
6 D	0.000	1.4168E-04	0.000	0.000	10.00	15.38	PASSIVE	0.000	-1.000	0.000	
1.000	1.000	0.000	0.000	0.000	Ug5_2_8_L_0						
7 D	2.995	1.2800E-04	1.913	12.89	12.00	17.35	PASSIVE	0.000	-1.200	2.087	
1.000	1.000	14.98	0.000	0.000	Ug5_2_8_L_0						
8 D	5.248	1.1483E-04	3.826	22.07	14.00	22.07	V-C	3.4277E+04	-1.400	4.174	
1.000	1.000	26.24	0.000	0.000	Ug5_2_8_L_0						
9 D	5.955	1.0241E-04	5.739	23.52	16.00	23.52	V-C	3.4277E+04	-1.600	6.261	
1.000	1.000	29.78	0.000	0.000	Ug5_2_8_L_0						
10 D	6.653	9.0913E-05	7.652	24.92	18.00	24.92	V-C	3.4277E+04	-1.800	8.348	
1.000	1.000	33.27	0.000	0.000	Ug5_2_8_L_0						
11 D	7.345	8.0471E-05	9.565	26.29	20.00	26.29	V-C	3.4277E+04	-2.000	10.43	
1.000	1.000	36.72	0.000	0.000	Ug5_2_8_L_0						
12 D	8.032	7.1156E-05	11.48	27.64	22.00	27.64	V-C	3.4277E+04	-2.200	12.52	
1.000	1.000	40.16	0.000	0.000	Ug5_2_8_L_0						
13 D	8.715	6.2987E-05	13.39	28.97	24.00	28.97	V-C	3.4277E+04	-2.400	14.61	
1.000	1.000	43.57	0.000	0.000	Ug5_2_8_L_0						
14 D	9.394	5.5941E-05	15.30	30.28	26.00	30.28	V-C	3.4277E+04	-2.600	16.70	
1.000	1.000	46.97	0.000	0.000	Ug5_2_8_L_0						
15 D	10.07	4.9966E-05	17.22	31.57	28.00	31.57	V-C	3.4277E+04	-2.800	18.78	
1.000	1.000	50.35	0.000	0.000	Ug5_2_8_L_0						
16 D	10.74	4.4984E-05	19.13	32.85	30.00	32.85	V-C	3.4277E+04	-3.000	20.87	
1.000	1.000	53.71	0.000	0.000	Ug5_2_8_L_0						
17 D	11.41	4.0907E-05	21.04	34.10	32.00	34.10	V-C	3.4277E+04	-3.200	22.96	
1.000	1.000	57.06	0.000	0.000	Ug5_2_8_L_0						
18 D	12.08	3.7634E-05	22.96	35.34	34.00	35.34	V-C	3.4277E+04	-3.400	25.04	
1.000	1.000	60.38	0.000	0.000	Ug5_2_8_L_0						
19 D	12.73	3.5065E-05	24.87	36.51	36.00	36.58	UL-RL	1.0283E+05	-3.600	27.13	
1.000	1.000	63.64	0.000	0.000	Ug5_2_8_L_0						
20 D	13.37	3.3099E-05	26.78	37.63	38.00	37.82	UL-RL	1.0283E+05	-3.800	29.22	
1.000	1.000	66.84	0.000	0.000	Ug5_2_8_L_0						
21 D	14.01	3.1638E-05	28.70	38.74	40.00	39.02	UL-RL	1.0283E+05	-4.000	31.30	
1.000	1.000	70.05	0.000	0.000	Ug5_2_8_L_0						
22 D	14.65	3.0592E-05	30.61	39.86	42.00	40.19	UL-RL	1.0283E+05	-4.200	33.39	
1.000	1.000	73.25	0.000	0.000	Ug5_2_8_L_0						
23 D	15.29	2.9878E-05	32.52	40.97	44.00	41.33	UL-RL	1.0283E+05	-4.400	35.48	
1.000	1.000	76.45	0.000	0.000	Ug5_2_8_L_0						
24 D	15.93	2.9424E-05	34.43	42.07	46.00	42.44	UL-RL	1.0283E+05	-4.600	37.57	
1.000	1.000	79.64	0.000	0.000	Ug5_2_8_L_0						
25 D	16.56	2.9164E-05	36.35	43.16	48.00	43.52	UL-RL	1.0283E+05	-4.800	39.65	
1.000	1.000	82.82	0.000	0.000	Ug5_2_8_L_0						
26 D	17.20	2.9045E-05	38.26	44.24	50.00	44.58	UL-RL	1.0283E+05	-5.000	41.74	
1.000	1.000	85.98	0.000	0.000	Ug5_2_8_L_0						
27 D	17.83	2.9021E-05	40.17	45.30	52.00	45.61	UL-RL	1.0283E+05	-5.200	43.83	
1.000	1.000	89.13	0.000	0.000	Ug5_2_8_L_0						
28 D	18.45	2.9054E-05	42.09	46.35	54.00	46.62	UL-RL	1.0283E+05	-5.400	45.91	
1.000	1.000	92.26	0.000	0.000	Ug5_2_8_L_0						
29 D	19.07	2.9116E-05	44.00	47.37	56.00	47.62	UL-RL	1.0283E+05	-5.600	48.00	
1.000	1.000	95.37	0.000	0.000	Ug5_2_8_L_0						
30 D	19.69	2.9183E-05	45.91	48.38	58.00	48.59	UL-RL	1.0283E+05	-5.800	50.09	
1.000	1.000	98.47	0.000	0.000	Ug5_2_8_L_0						
31 D	20.30	2.9238E-05	47.83	49.35	60.00	49.56	UL-RL	1.0283E+05	-6.000	52.17	
1.000	1.000	101.5	0.000	0.000	Ug5_2_8_L_0						
32 D	20.91	2.9270E-05	49.74	50.29	62.00	50.51	UL-RL	1.0283E+05	-6.200	54.26	
1.000	1.000	104.6	0.000	0.000	Ug5_2_8_L_0						
33 D	21.51	2.9269E-05	51.65	51.21	64.00	51.46	UL-RL	1.0283E+05	-6.400	56.35	

1.000	1.000	107.6	0.000	0.000	Ug5_2_8_L_0					
34 D	22.11	2.9231E-05	53.57	52.12	66.00	52.39	UL-RL	1.0283E+05	-6.600	58.43
1.000	1.000	110.6	0.000	0.000	Ug5_2_8_L_0					
35 D	22.71	2.9153E-05	55.48	53.02	68.00	53.31	UL-RL	1.0283E+05	-6.800	60.52
1.000	1.000	113.5	0.000	0.000	Ug5_2_8_L_0					
36 D	23.30	2.9036E-05	57.39	53.89	70.00	54.22	UL-RL	1.0283E+05	-7.000	62.61
1.000	1.000	116.5	0.000	0.000	Ug5_2_8_L_0					
37 D	23.89	2.8880E-05	59.30	54.76	72.00	55.12	UL-RL	1.0283E+05	-7.200	64.70
1.000	1.000	119.5	0.000	0.000	Ug5_2_8_L_0					
38 D	24.48	2.8688E-05	61.22	55.61	74.00	56.01	UL-RL	1.0283E+05	-7.400	66.78
1.000	1.000	122.4	0.000	0.000	Ug5_2_8_L_0					
39 D	25.06	2.8463E-05	63.13	56.45	76.00	56.89	UL-RL	1.0283E+05	-7.600	68.87
1.000	1.000	125.3	0.000	0.000	Ug5_2_8_L_0					
40 D	25.65	2.8208E-05	65.04	57.29	78.00	57.77	UL-RL	1.0283E+05	-7.800	70.96
1.000	1.000	128.2	0.000	0.000	Ug5_2_8_L_0					
41 D	26.23	2.7928E-05	66.96	58.11	80.00	58.64	UL-RL	1.0283E+05	-8.000	73.04
1.000	1.000	131.2	0.000	0.000	Ug5_2_8_L_0					
42 D	26.81	2.7626E-05	68.87	58.93	82.00	59.51	UL-RL	1.0283E+05	-8.200	75.13
1.000	1.000	134.1	0.000	0.000	Ug5_2_8_L_0					
43 D	27.39	2.7306E-05	70.78	59.74	84.00	60.37	UL-RL	1.0283E+05	-8.400	77.22
1.000	1.000	137.0	0.000	0.000	Ug5_2_8_L_0					
44 D	27.97	2.6971E-05	72.70	60.54	86.00	61.23	UL-RL	1.0283E+05	-8.600	79.30
1.000	1.000	139.8	0.000	0.000	Ug5_2_8_L_0					
45 D	28.55	2.6624E-05	74.61	61.34	88.00	62.09	UL-RL	1.0283E+05	-8.800	81.39
1.000	1.000	142.7	0.000	0.000	Ug5_2_8_L_0					
46 D	29.12	2.6267E-05	76.52	62.13	90.00	62.94	UL-RL	1.0283E+05	-9.000	83.48
1.000	1.000	145.6	0.000	0.000	Ug5_2_8_L_0					
47 D	29.70	2.5904E-05	78.43	62.93	92.00	63.79	UL-RL	1.0283E+05	-9.200	85.57
1.000	1.000	148.5	0.000	0.000	Ug5_2_8_L_0					
48 D	30.27	2.5536E-05	80.35	63.72	94.00	64.64	UL-RL	1.0283E+05	-9.400	87.65
1.000	1.000	151.4	0.000	0.000	Ug5_2_8_L_0					
49 D	30.85	2.5165E-05	82.26	64.50	96.00	65.48	UL-RL	1.0283E+05	-9.600	89.74
1.000	1.000	154.2	0.000	0.000	Ug5_2_8_L_0					
50 D	31.42	2.4791E-05	84.17	65.29	98.00	66.32	UL-RL	1.0283E+05	-9.800	91.83
1.000	1.000	157.1	0.000	0.000	Ug5_2_8_L_0					
51 D	32.00	2.4417E-05	86.09	66.07	100.00	67.17	UL-RL	1.0283E+05	-10.000	93.91
1.000	1.000	160.0	0.000	0.000	Ug5_2_8_L_0					
52 D	32.57	2.4043E-05	88.00	66.85	102.0	68.01	UL-RL	1.0283E+05	-10.200	96.00
1.000	1.000	162.9	0.000	0.000	Ug5_2_8_L_0					
53 D	33.14	2.3668E-05	89.91	67.63	104.0	68.85	UL-RL	1.0283E+05	-10.400	98.09
1.000	1.000	165.7	0.000	0.000	Ug5_2_8_L_0					
54 D	33.72	2.3295E-05	91.83	68.41	106.0	69.69	UL-RL	1.0283E+05	-10.600	100.2
1.000	1.000	168.6	0.000	0.000	Ug5_2_8_L_0					
55 D	34.29	2.2922E-05	93.74	69.19	108.0	70.52	UL-RL	1.0283E+05	-10.800	102.3
1.000	1.000	171.5	0.000	0.000	Ug5_2_8_L_0					
56 D	34.86	2.2550E-05	95.65	69.97	110.0	71.36	UL-RL	1.0283E+05	-11.000	104.3
1.000	1.000	174.3	0.000	0.000	Ug5_2_8_L_0					
57 D	35.44	2.2178E-05	97.57	70.75	112.0	72.20	UL-RL	1.0283E+05	-11.200	106.4
1.000	1.000	177.2	0.000	0.000	Ug5_2_8_L_0					
58 D	36.01	2.1807E-05	99.48	71.53	114.0	73.04	UL-RL	1.0283E+05	-11.400	108.5
1.000	1.000	180.0	0.000	0.000	Ug5_2_8_L_0					
59 D	36.58	2.1436E-05	101.4	72.31	116.0	73.88	UL-RL	1.0283E+05	-11.600	110.6
1.000	1.000	182.9	0.000	0.000	Ug5_2_8_L_0					
60 D	37.16	2.1065E-05	103.3	73.09	118.0	74.72	UL-RL	1.0283E+05	-11.800	112.7
1.000	1.000	185.8	0.000	0.000	Ug5_2_8_L_0					
61 D	18.86	2.0695E-05	105.2	73.87	120.0	75.56	UL-RL	1.0283E+05	-12.000	114.8
1.000	1.000	188.6	0.000	0.000	Ug5_2_8_L_0					



MIN UN=-.4743E-01 IEQ= 11 NODE 6 DOF 1 Y-DISPL.F  
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 2 RNORM = 0.000 RMNORM= 0.000  
RINORM=0.5496E+05 RIMNOR= 1122.  
RENORM= 58.62 REMNOR=0.3033E-22 RATIO =0.3266E-01 TOLER =0.1000E-03 NOT CONVERGED  
RFMAX = 36.60 RMMAX = 7.883  
RTSMAL=0.1000E-03 RMSMAL=0.1000E-04  
RDT =0.5496E+05 RDR = 1122.  
RATIOT=0.3266E-01 RATIOOR= 0.000  
MAX UN= 2.677 IEQ= 19 NODE 10 DOF 1 Y-DISPL.F  
MIN UN=-.4762E-02 IEQ= 3 NODE 2 DOF 1 Y-DISPL.F  
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 3 RNORM = 0.000 RMNORM= 0.000  
RINORM=0.5496E+05 RIMNOR= 1122.  
RENORM= 138.9 REMNOR=0.7621E-21 RATIO =0.5028E-01 TOLER =0.1000E-03 NOT CONVERGED  
RFMAX = 36.60 RMMAX = 7.883  
RTSMAL=0.1000E-03 RMSMAL=0.1000E-04  
RDT =0.5496E+05 RDR = 1122.  
RATIOT=0.5028E-01 RATIOOR= 0.000  
MAX UN= 8.253 IEQ= 31 NODE 16 DOF 1 Y-DISPL.F  
MIN UN=-.2162E-09 IEQ= 3 NODE 2 DOF 1 Y-DISPL.F  
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 4 RNORM = 0.000 RMNORM= 0.000  
RINORM=0.5496E+05 RIMNOR= 1122.  
RENORM= 17.95 REMNOR=0.1371E-20 RATIO =0.1807E-01 TOLER =0.1000E-03 NOT CONVERGED  
RFMAX = 36.60 RMMAX = 7.883  
RTSMAL=0.1000E-03 RMSMAL=0.1000E-04  
RDT =0.5496E+05 RDR = 1122.  
RATIOT=0.1807E-01 RATIOOR= 0.000  
MAX UN= 3.637 IEQ= 43 NODE 22 DOF 1 Y-DISPL.F  
MIN UN=-.1612E-09 IEQ= 5 NODE 3 DOF 1 Y-DISPL.F  
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 5 RNORM = 0.000 RMNORM= 0.000  
RINORM=0.5496E+05 RIMNOR= 1122.  
RENORM=0.8743E-01 REMNOR=0.4988E-21 RATIO =0.1261E-02 TOLER =0.1000E-03 NOT CONVERGED  
RFMAX = 36.60 RMMAX = 7.883  
RTSMAL=0.1000E-03 RMSMAL=0.1000E-04  
RDT =0.5496E+05 RDR = 1122.  
RATIOT=0.1261E-02 RATIOOR= 0.000  
MAX UN=0.2853 IEQ= 49 NODE 25 DOF 1 Y-DISPL.F  
MIN UN=-.1896E-09 IEQ= 13 NODE 7 DOF 1 Y-DISPL.F  
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 6 RNORM = 0.000 RMNORM= 0.000  
RINORM=0.5496E+05 RIMNOR= 1122.  
RENORM=0.1233E-18 REMNOR=0.3494E-21 RATIO =0.1498E-11 TOLER =0.1000E-03 CONVERGED !  
RFMAX = 36.60 RMMAX = 7.883  
RTSMAL=0.1000E-03 RMSMAL=0.1000E-04  
RDT =0.5496E+05 RDR = 1122.  
RATIOT=0.1498E-11 RATIOOR= 0.000  
MAX UN=0.1543E-09 IEQ= 3 NODE 2 DOF 1 Y-DISPL.F  
MIN UN=-.1185E-09 IEQ= 13 NODE 7 DOF 1 Y-DISPL.F  
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

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|                PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
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New Project
SOLUTION REACHED USING      6 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   3   ( AT TIME  3.000   )

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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	3.0345660E-03	-7.2004967E-04	
2	2.8905560E-03	-7.2004967E-04	
3	2.7465484E-03	-7.2001464E-04	
4	2.6025596E-03	-7.1983796E-04	
5	2.4586347E-03	-7.1933917E-04	
6	2.3148625E-03	-7.1826207E-04	
7	2.1713907E-03	-7.1627349E-04	
8	2.0284411E-03	-7.1296500E-04	
9	1.8863248E-03	-7.0785514E-04	
10	1.7454561E-03	-7.0038940E-04	
11	1.6063679E-03	-6.8994058E-04	
12	1.4697254E-03	-6.7580922E-04	
13	1.3363270E-03	-6.5743479E-04	
14	1.2070484E-03	-6.3460695E-04	
15	1.0827718E-03	-6.0746556E-04	
16	9.6431703E-04	-5.7650070E-04	
17	8.5238038E-04	-5.4239529E-04	
18	7.4752215E-04	-5.0583293E-04	
19	6.5016773E-04	-4.6746264E-04	
20	5.6061639E-04	-4.2790288E-04	
21	4.7904687E-04	-3.8774480E-04	
22	4.0552100E-04	-3.4755504E-04	
23	3.3999049E-04	-3.0788078E-04	
24	2.8229893E-04	-2.6925283E-04	
25	2.3218504E-04	-2.3218966E-04	
26	1.8928475E-04	-1.9720128E-04	
27	1.5313679E-04	-1.6473151E-04	
28	1.2320392E-04	-1.3508790E-04	
29	9.8901486E-05	-1.0844650E-04	
30	7.9620572E-05	-8.4876301E-05	
31	6.4747576E-05	-6.4356942E-05	
32	5.3681042E-05	-4.6789667E-05	
33	4.5845766E-05	-3.2012417E-05	
34	4.0703804E-05	-1.9819232E-05	
35	3.7761421E-05	-9.9758242E-06	
36	3.6573449E-05	-2.2327958E-06	
37	3.6745203E-05	3.6637627E-06	
38	3.7932538E-05	7.9640886E-06	
39	3.9840429E-05	1.0908275E-05	
40	4.2220473E-05	1.2721825E-05	
41	4.4867635E-05	1.3612515E-05	
42	4.7616498E-05	1.3768499E-05	
43	5.0337230E-05	1.3357411E-05	
44	5.2931458E-05	1.2526259E-05	
45	5.5328176E-05	1.1401919E-05	
46	5.7479846E-05	1.0092061E-05	
47	5.9358615E-05	8.6864316E-06	
48	6.0952917E-05	7.2582842E-06	
49	6.2264315E-05	5.8659294E-06	
50	6.3304666E-05	4.5543086E-06	
51	6.4093620E-05	3.3564927E-06	
52	6.4656374E-05	2.2951306E-06	
53	6.5021678E-05	1.3838751E-06	
54	6.5220277E-05	6.2821472E-07	
55	6.5283250E-05	2.6852896E-08	
56	6.5240806E-05	-4.2768490E-07	
57	6.5121102E-05	-7.4834265E-07	
58	6.4949200E-05	-9.5303388E-07	
59	6.4746117E-05	-1.0642863E-06	
60	6.4527921E-05	-1.1090116E-06	
61	6.4304859E-05	-1.1183755E-06	





1.000	1.000	104.4	0.000	0.000	Ug5_2_8_L_0					
34 D	21.58	-4.0704E-05	86.38	47.92	86.38	53.82	UL-RL	1.2410E+05	-6.600	60.00
1.000	1.000	107.9	0.000	0.000	Ug5_2_8_L_0					
35 D	22.22	-3.7761E-05	88.93	49.30	88.93	54.79	UL-RL	1.2410E+05	-6.800	61.82
1.000	1.000	111.1	0.000	0.000	Ug5_2_8_L_0					
36 D	22.82	-3.6573E-05	92.04	50.46	92.04	55.74	UL-RL	1.2410E+05	-7.000	63.64
1.000	1.000	114.1	0.000	0.000	Ug5_2_8_L_0					
37 D	23.38	-3.6745E-05	94.55	51.44	94.55	56.68	UL-RL	1.2410E+05	-7.200	65.45
1.000	1.000	116.9	0.000	0.000	Ug5_2_8_L_0					
38 D	23.91	-3.7933E-05	97.59	52.29	97.59	57.62	UL-RL	1.2410E+05	-7.400	67.27
1.000	1.000	119.6	0.000	0.000	Ug5_2_8_L_0					
39 D	24.43	-3.9840E-05	100.1	53.05	100.1	58.55	UL-RL	1.2410E+05	-7.600	69.09
1.000	1.000	122.1	0.000	0.000	Ug5_2_8_L_0					
40 D	24.93	-4.2220E-05	103.1	53.74	103.1	59.47	UL-RL	1.2410E+05	-7.800	70.91
1.000	1.000	124.7	0.000	0.000	Ug5_2_8_L_0					
41 D	25.43	-4.4868E-05	106.0	54.40	106.0	60.38	UL-RL	1.2410E+05	-8.000	72.73
1.000	1.000	127.1	0.000	0.000	Ug5_2_8_L_0					
42 D	25.92	-4.7616E-05	108.4	55.04	108.4	61.29	UL-RL	1.2410E+05	-8.200	74.55
1.000	1.000	129.6	0.000	0.000	Ug5_2_8_L_0					
43 D	26.41	-5.0337E-05	111.4	55.69	111.4	62.20	UL-RL	1.2410E+05	-8.400	76.36
1.000	1.000	132.0	0.000	0.000	Ug5_2_8_L_0					
44 D	26.90	-5.2931E-05	113.8	56.34	113.8	63.10	UL-RL	1.2410E+05	-8.600	78.18
1.000	1.000	134.5	0.000	0.000	Ug5_2_8_L_0					
45 D	27.40	-5.5328E-05	116.6	57.02	116.6	64.00	UL-RL	1.2410E+05	-8.800	80.00
1.000	1.000	137.0	0.000	0.000	Ug5_2_8_L_0					
46 D	27.91	-5.7480E-05	119.0	57.72	119.0	64.90	UL-RL	1.2410E+05	-9.000	81.82
1.000	1.000	139.5	0.000	0.000	Ug5_2_8_L_0					
47 D	28.42	-5.9359E-05	121.9	58.46	121.9	65.79	UL-RL	1.2410E+05	-9.200	83.64
1.000	1.000	142.1	0.000	0.000	Ug5_2_8_L_0					
48 D	28.94	-6.0953E-05	124.2	59.23	124.2	66.68	UL-RL	1.2410E+05	-9.400	85.45
1.000	1.000	144.7	0.000	0.000	Ug5_2_8_L_0					
49 D	29.46	-6.2264E-05	127.0	60.04	127.0	67.57	UL-RL	1.2410E+05	-9.600	87.27
1.000	1.000	147.3	0.000	0.000	Ug5_2_8_L_0					
50 D	29.99	-6.3305E-05	129.4	60.87	129.4	68.45	UL-RL	1.2410E+05	-9.800	89.09
1.000	1.000	150.0	0.000	0.000	Ug5_2_8_L_0					
51 D	30.53	-6.4094E-05	132.2	61.74	132.2	69.34	UL-RL	1.2410E+05	-10.00	90.91
1.000	1.000	152.6	0.000	0.000	Ug5_2_8_L_0					
52 D	31.07	-6.4656E-05	134.5	62.63	134.5	70.22	UL-RL	1.2410E+05	-10.20	92.73
1.000	1.000	155.4	0.000	0.000	Ug5_2_8_L_0					
53 D	31.62	-6.5022E-05	137.3	63.55	137.3	71.11	UL-RL	1.2410E+05	-10.40	94.55
1.000	1.000	158.1	0.000	0.000	Ug5_2_8_L_0					
54 D	32.17	-6.5220E-05	140.0	64.48	140.0	71.99	UL-RL	1.2410E+05	-10.60	96.36
1.000	1.000	160.8	0.000	0.000	Ug5_2_8_L_0					
55 D	32.72	-6.5283E-05	142.3	65.44	142.3	72.87	UL-RL	1.2410E+05	-10.80	98.18
1.000	1.000	163.6	0.000	0.000	Ug5_2_8_L_0					
56 D	33.28	-6.5241E-05	145.0	66.40	145.0	73.75	UL-RL	1.2410E+05	-11.00	100.00
1.000	1.000	166.4	0.000	0.000	Ug5_2_8_L_0					
57 D	33.84	-6.5121E-05	147.3	67.38	147.3	74.64	UL-RL	1.2410E+05	-11.20	101.8
1.000	1.000	169.2	0.000	0.000	Ug5_2_8_L_0					
58 D	34.40	-6.4949E-05	150.0	68.36	150.0	75.52	UL-RL	1.2410E+05	-11.40	103.6
1.000	1.000	172.0	0.000	0.000	Ug5_2_8_L_0					
59 D	34.96	-6.4746E-05	152.3	69.34	152.3	76.40	UL-RL	1.2410E+05	-11.60	105.5
1.000	1.000	174.8	0.000	0.000	Ug5_2_8_L_0					
60 D	35.52	-6.4528E-05	155.0	70.33	155.0	77.28	UL-RL	1.2410E+05	-11.80	107.3
1.000	1.000	177.6	0.000	0.000	Ug5_2_8_L_0					
61 D	18.04	-6.4305E-05	157.3	71.32	157.3	78.16	UL-RL	1.2410E+05	-12.00	109.1
1.000	1.000	180.4	0.000	0.000	Ug5_2_8_L_0					

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|                PARATIEPLUS(TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION *Build date:Jul 11, 2017*                |
|                                                                                                                                            |
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|                NewProject.BaseDesignSection_28.A1M1R1_1757                                                                              |
|                Exe Time :24 May 2018      18:23:40                                                                                          |
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New Project

STRESS RESULTS FOR GROUP NO. 2

0\_R :  
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 61  
CURRENT TIME IS 3.0000

HARDENING 2D SOIL ELEMENT

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

EL * FACTOR	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
1	0.000	--	--	--	--	--	REMOVED	--	0.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
2	0.000	--	--	--	--	--	REMOVED	--	-0.2000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
3	0.000	--	--	--	--	--	REMOVED	--	-0.4000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
4	0.000	--	--	--	--	--	REMOVED	--	-0.6000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
5	0.000	--	--	--	--	--	REMOVED	--	-0.8000	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	--	-1.200	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
8	0.000	--	--	--	--	--	REMOVED	--	-1.400	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
9	0.000	--	--	--	--	--	REMOVED	--	-1.600	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
10	0.000	--	--	--	--	--	REMOVED	--	-1.800	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
11 D	0.000	1.6064E-03	0.000	0.000	20.00	26.29	PASSIVE	0.000	-2.000	0.000	
1.000	1.000	0.000	0.000	0.000	Ug5_2_8_L_0						
12 D	2.887	1.4697E-03	1.818	12.25	22.00	27.64	PASSIVE	0.000	-2.200	2.182	
1.000	1.000	14.43	0.000	0.000	Ug5_2_8_L_0						
13 D	5.773	1.3363E-03	3.636	24.50	24.00	28.97	PASSIVE	0.000	-2.400	4.364	
1.000	1.000	28.87	0.000	0.000	Ug5_2_8_L_0						
14 D	8.660	1.2070E-03	5.455	36.75	26.00	36.75	PASSIVE	0.000	-2.600	6.545	
1.000	1.000	43.30	0.000	0.000	Ug5_2_8_L_0						
15 D	11.55	1.0828E-03	7.273	49.00	28.00	49.00	PASSIVE	0.000	-2.800	8.727	
1.000	1.000	57.73	0.000	0.000	Ug5_2_8_L_0						
16 D	12.28	9.6432E-04	9.091	50.51	30.00	50.51	V-C	2.0566E+04	-3.000	10.91	
1.000	1.000	61.42	0.000	0.000	Ug5_2_8_L_0						
17 D	12.53	8.5238E-04	10.91	49.58	32.00	49.58	V-C	2.0566E+04	-3.200	13.09	
1.000	1.000	62.67	0.000	0.000	Ug5_2_8_L_0						
18 D	12.80	7.4752E-04	12.73	48.75	34.00	48.75	V-C	2.0566E+04	-3.400	15.27	
1.000	1.000	64.02	0.000	0.000	Ug5_2_8_L_0						
19 D	13.10	6.5017E-04	14.55	48.03	36.00	48.03	V-C	2.0566E+04	-3.600	17.45	
1.000	1.000	65.49	0.000	0.000	Ug5_2_8_L_0						
20 D	13.42	5.6062E-04	16.36	47.44	38.00	47.44	V-C	2.0566E+04	-3.800	19.64	
1.000	1.000	67.08	0.000	0.000	Ug5_2_8_L_0						
21 D	13.76	4.7905E-04	18.18	46.98	40.00	46.98	V-C	2.0566E+04	-4.000	21.82	
1.000	1.000	68.80	0.000	0.000	Ug5_2_8_L_0						
22 D	14.13	4.0552E-04	20.00	46.65	42.00	46.65	V-C	2.0566E+04	-4.200	24.00	
1.000	1.000	70.65	0.000	0.000	Ug5_2_8_L_0						
23 D	14.53	3.3999E-04	21.82	46.45	44.00	46.45	V-C	2.0566E+04	-4.400	26.18	
1.000	1.000	72.63	0.000	0.000	Ug5_2_8_L_0						
24 D	14.95	2.8230E-04	23.64	46.38	46.00	46.38	V-C	2.0566E+04	-4.600	28.36	
1.000	1.000	74.74	0.000	0.000	Ug5_2_8_L_0						
25 D	15.40	2.3219E-04	25.45	46.44	48.00	46.44	V-C	2.0566E+04	-4.800	30.55	
1.000	1.000	76.99	0.000	0.000	Ug5_2_8_L_0						
26 D	15.87	1.8928E-04	27.27	46.63	50.00	46.63	V-C	2.0566E+04	-5.000	32.73	
1.000	1.000	79.35	0.000	0.000	Ug5_2_8_L_0						
27 D	16.37	1.5314E-04	29.09	46.93	52.00	46.93	V-C	2.0566E+04	-5.200	34.91	
1.000	1.000	81.84	0.000	0.000	Ug5_2_8_L_0						
28 D	16.88	1.2320E-04	30.91	47.33	54.00	47.33	V-C	2.0566E+04	-5.400	37.09	
1.000	1.000	84.42	0.000	0.000	Ug5_2_8_L_0						
29 D	17.42	9.8901E-05	32.73	47.83	56.00	47.83	V-C	2.0566E+04	-5.600	39.27	
1.000	1.000	87.10	0.000	0.000	Ug5_2_8_L_0						
30 D	17.91	7.9621E-05	34.55	48.07	58.00	48.59	UL-RL	6.1699E+04	-5.800	41.45	
1.000	1.000	89.53	0.000	0.000	Ug5_2_8_L_0						
31 D	18.35	6.4748E-05	36.36	48.11	60.00	49.56	UL-RL	6.1699E+04	-6.000	43.64	
1.000	1.000	91.75	0.000	0.000	Ug5_2_8_L_0						
32 D	18.84	5.3681E-05	38.18	48.36	62.00	50.51	UL-RL	6.1699E+04	-6.200	45.82	
1.000	1.000	94.18	0.000	0.000	Ug5_2_8_L_0						
33 D	19.36	4.5846E-05	40.00	48.79	64.00	51.46	UL-RL	6.1699E+04	-6.400	48.00	

1.000	1.000	96.79	0.000	0.000	Ug5_2_8_L_0					
34 D	19.91	4.0704E-05	41.82	49.37	66.00	52.39	UL-RL	6.1699E+04	-6.600	50.18
1.000	1.000	99.55	0.000	0.000	Ug5_2_8_L_0					
35 D	20.49	3.7761E-05	43.64	50.07	68.00	53.31	UL-RL	6.1699E+04	-6.800	52.36
1.000	1.000	102.4	0.000	0.000	Ug5_2_8_L_0					
36 D	21.08	3.6573E-05	45.45	50.87	70.00	54.22	UL-RL	6.1699E+04	-7.000	54.55
1.000	1.000	105.4	0.000	0.000	Ug5_2_8_L_0					
37 D	21.69	3.6745E-05	47.27	51.74	72.00	55.12	UL-RL	6.1699E+04	-7.200	56.73
1.000	1.000	108.5	0.000	0.000	Ug5_2_8_L_0					
38 D	22.31	3.7933E-05	49.09	52.67	74.00	56.01	UL-RL	6.1699E+04	-7.400	58.91
1.000	1.000	111.6	0.000	0.000	Ug5_2_8_L_0					
39 D	22.94	3.9840E-05	50.91	53.62	76.00	56.89	UL-RL	6.1699E+04	-7.600	61.09
1.000	1.000	114.7	0.000	0.000	Ug5_2_8_L_0					
40 D	23.58	4.2220E-05	52.73	54.60	78.00	57.77	UL-RL	6.1699E+04	-7.800	63.27
1.000	1.000	117.9	0.000	0.000	Ug5_2_8_L_0					
41 D	24.21	4.4868E-05	54.55	55.59	80.00	58.64	UL-RL	6.1699E+04	-8.000	65.45
1.000	1.000	121.0	0.000	0.000	Ug5_2_8_L_0					
42 D	24.84	4.7616E-05	56.36	56.58	82.00	59.51	UL-RL	6.1699E+04	-8.200	67.64
1.000	1.000	124.2	0.000	0.000	Ug5_2_8_L_0					
43 D	25.48	5.0337E-05	58.18	57.56	84.00	60.37	UL-RL	6.1699E+04	-8.400	69.82
1.000	1.000	127.4	0.000	0.000	Ug5_2_8_L_0					
44 D	26.10	5.2931E-05	60.00	58.52	86.00	61.23	UL-RL	6.1699E+04	-8.600	72.00
1.000	1.000	130.5	0.000	0.000	Ug5_2_8_L_0					
45 D	26.73	5.5328E-05	61.82	59.47	88.00	62.09	UL-RL	6.1699E+04	-8.800	74.18
1.000	1.000	133.7	0.000	0.000	Ug5_2_8_L_0					
46 D	27.35	5.7480E-05	63.64	60.41	90.00	62.94	UL-RL	6.1699E+04	-9.000	76.36
1.000	1.000	136.8	0.000	0.000	Ug5_2_8_L_0					
47 D	27.97	5.9359E-05	65.45	61.32	92.00	63.79	UL-RL	6.1699E+04	-9.200	78.55
1.000	1.000	139.9	0.000	0.000	Ug5_2_8_L_0					
48 D	28.59	6.0953E-05	67.27	62.21	94.00	64.64	UL-RL	6.1699E+04	-9.400	80.73
1.000	1.000	142.9	0.000	0.000	Ug5_2_8_L_0					
49 D	29.20	6.2264E-05	69.09	63.08	96.00	65.48	UL-RL	6.1699E+04	-9.600	82.91
1.000	1.000	146.0	0.000	0.000	Ug5_2_8_L_0					
50 D	29.80	6.3305E-05	70.91	63.93	98.00	66.32	UL-RL	6.1699E+04	-9.800	85.09
1.000	1.000	149.0	0.000	0.000	Ug5_2_8_L_0					
51 D	30.41	6.4094E-05	72.73	64.77	100.00	67.17	UL-RL	6.1699E+04	-10.000	87.27
1.000	1.000	152.0	0.000	0.000	Ug5_2_8_L_0					
52 D	31.01	6.4656E-05	74.55	65.58	102.0	68.01	UL-RL	6.1699E+04	-10.200	89.45
1.000	1.000	155.0	0.000	0.000	Ug5_2_8_L_0					
53 D	31.61	6.5022E-05	76.36	66.39	104.0	68.85	UL-RL	6.1699E+04	-10.400	91.64
1.000	1.000	158.0	0.000	0.000	Ug5_2_8_L_0					
54 D	32.20	6.5220E-05	78.18	67.19	106.0	69.69	UL-RL	6.1699E+04	-10.600	93.82
1.000	1.000	161.0	0.000	0.000	Ug5_2_8_L_0					
55 D	32.79	6.5283E-05	80.00	67.97	108.0	70.52	UL-RL	6.1699E+04	-10.800	96.00
1.000	1.000	164.0	0.000	0.000	Ug5_2_8_L_0					
56 D	33.39	6.5241E-05	81.82	68.75	110.0	71.36	UL-RL	6.1699E+04	-11.000	98.18
1.000	1.000	166.9	0.000	0.000	Ug5_2_8_L_0					
57 D	33.98	6.5121E-05	83.64	69.52	112.0	72.20	UL-RL	6.1699E+04	-11.200	100.4
1.000	1.000	169.9	0.000	0.000	Ug5_2_8_L_0					
58 D	34.57	6.4949E-05	85.45	70.29	114.0	73.04	UL-RL	6.1699E+04	-11.400	102.5
1.000	1.000	172.8	0.000	0.000	Ug5_2_8_L_0					
59 D	35.16	6.4746E-05	87.27	71.06	116.0	73.88	UL-RL	6.1699E+04	-11.600	104.7
1.000	1.000	175.8	0.000	0.000	Ug5_2_8_L_0					
60 D	35.75	6.4528E-05	89.09	71.83	118.0	74.72	UL-RL	6.1699E+04	-11.800	106.9
1.000	1.000	178.7	0.000	0.000	Ug5_2_8_L_0					
61 D	18.17	6.4305E-05	90.91	72.60	120.0	75.56	UL-RL	6.1699E+04	-12.000	109.1
1.000	1.000	181.7	0.000	0.000	Ug5_2_8_L_0					

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
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New Project

STRESS RESULTS FOR GROUP NO. 3

WallElement\_33 :  
ELEMENT TYPE 2 NO.OF ELEMENTS. IN THIS GROUP 60  
CURRENT TIME IS 3.0000

WALL2D ELEMENT

EL	TA	TB	MA	MB
1	1.03363E-10	-1.03363E-10	1.04248E-11	-2.39359E-13
2	0.47885	-0.47885	5.33706E-12	9.57703E-02
3	1.4579	-1.4579	-9.57703E-02	0.38735
4	2.9460	-2.9460	-0.38735	0.97654
5	4.9605	-4.9605	-0.97654	1.9686
6	7.5013	-7.5013	-1.9686	3.4689
7	10.544	-10.544	-3.4689	5.5777
8	14.084	-14.084	-5.5777	8.3945
9	18.126	-18.126	-8.3945	12.020
10	22.659	-22.659	-12.020	16.551
11	27.689	-27.689	-16.551	22.089
12	30.322	-30.322	-22.089	28.154
13	30.564	-30.564	-28.154	34.266
14	28.410	-28.410	-34.266	39.948
15	23.864	-23.864	-39.948	44.721
16	19.071	-19.071	-44.721	48.535
17	14.523	-14.523	-48.535	51.440
18	10.195	-10.195	-51.440	53.479
19	6.0669	-6.0669	-53.479	54.692
20	2.1162	-2.1162	-54.692	55.116
21	-1.6858	1.6858	-55.116	54.778
22	-5.3622	5.3622	-54.778	53.706
23	-8.9427	8.9427	-53.706	51.917
24	-12.451	12.451	-51.917	49.427
25	-15.915	15.915	-49.427	46.244
26	-18.517	18.517	-46.244	42.541
27	-20.125	20.125	-42.541	38.516
28	-20.921	20.921	-38.516	34.332
29	-21.068	21.068	-34.332	30.118
30	-20.643	20.643	-30.118	25.990
31	-19.717	19.717	-25.990	22.046
32	-18.429	18.429	-22.046	18.360
33	-16.900	16.900	-18.360	14.980
34	-15.226	15.226	-14.980	11.935
35	-13.490	13.490	-11.935	9.2372
36	-11.754	11.754	-9.2372	6.8863
37	-10.069	10.069	-6.8863	4.8724
38	-8.4715	8.4715	-4.8724	3.1781
39	-6.9864	6.9864	-3.1781	1.7808
40	-5.6308	5.6308	-1.7808	0.65466
41	-4.4140	4.4140	-0.65466	-0.22814
42	-3.3389	3.3389	0.22814	-0.89593
43	-2.4041	2.4041	0.89593	-1.3768
44	-1.6044	1.6044	1.3768	-1.6976
45	-0.93194	0.93194	1.6976	-1.8840
46	-0.37743	0.37743	1.8840	-1.9595
47	6.95628E-02	-6.95628E-02	1.9595	-1.9456
48	0.41979	-0.41979	1.9456	-1.8616
49	0.68391	-0.68391	1.8616	-1.7248
50	0.87211	-0.87211	1.7248	-1.5504
51	0.99381	-0.99381	1.5504	-1.3517
52	1.0575	-1.0575	1.3517	-1.1402
53	1.0705	-1.0705	1.1402	-0.92608
54	1.0391	-1.0391	0.92608	-0.71827
55	0.96829	-0.96829	0.71827	-0.52461
56	0.86210	-0.86210	0.52461	-0.35219
57	0.72338	-0.72338	0.35219	-0.20751
58	0.55410	-0.55410	0.20751	-9.66927E-02
59	0.35545	-0.35545	9.66927E-02	-2.56030E-02
60	0.12801	-0.12801	2.56030E-02	-2.76043E-13

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ITER 0 RNORM = 5584. RMNORM= 0.000
RINORM=0.6771E+05 RIMNOR=0.8217E+05
RENORM= 4228. REMNOR=0.3494E-21 RATIO =0.2499 TOLER =0.1000E-03 NOT CONVERGED
RFMAX = 72.00 RMMAX = 55.12
RTSMAL=0.1000E-03 RMSMAL=0.1000E-03
RDT =0.6771E+05 RDR =0.8217E+05
RATIOT=0.2499 RATOR= 0.000
MAX UN= 11.40 IEQ= 29 NODE 15 DOF 1 Y-DISPL.F

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MIN UN=-59.87 IEQ= 31 NODE 16 DOF 1 Y-DISPL.F  
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 2 RNORM = 5584. RMNORM= 0.000  
RINORM=0.6771E+05 RIMNOR=0.8217E+05  
RENORM=0.7274 REMNOR=0.5863E-21 RATIO =0.3278E-02 TOLER =0.1000E-03 NOT CONVERGED  
RFMAX = 72.00 RMMAX = 55.12  
RTSMAL=0.1000E-03 RMSMAL=0.1000E-03  
RDT =0.6771E+05 RDR =0.8217E+05  
RATIOT=0.3278E-02 RATIOOR= 0.000  
MAX UN=0.6305 IEQ= 49 NODE 25 DOF 1 Y-DISPL.F  
MIN UN=-.1331E-09 IEQ= 17 NODE 9 DOF 1 Y-DISPL.F  
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 3 RNORM = 5584. RMNORM= 0.000  
RINORM=0.6771E+05 RIMNOR=0.8217E+05  
RENORM=0.2463E-18 REMNOR=0.5442E-21 RATIO =0.1907E-11 TOLER =0.1000E-03 CONVERGED !  
RFMAX = 72.00 RMMAX = 55.12  
RTSMAL=0.1000E-03 RMSMAL=0.1000E-03  
RDT =0.6771E+05 RDR =0.8217E+05  
RATIOT=0.1907E-11 RATIOOR= 0.000  
MAX UN=0.1950E-09 IEQ= 9 NODE 5 DOF 1 Y-DISPL.F  
MIN UN=-.2078E-09 IEQ= 7 NODE 4 DOF 1 Y-DISPL.F  
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
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New Project
SOLUTION REACHED USING      3 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   4   ( AT TIME   4.000   )

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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	3.0025560E-03	-7.3976917E-04	
2	2.8546022E-03	-7.3976917E-04	
3	2.7066536E-03	-7.3969139E-04	
4	2.5587439E-03	-7.3933968E-04	
5	2.4109545E-03	-7.3843607E-04	
6	2.2634304E-03	-7.3661895E-04	
7	2.1163975E-03	-7.3344202E-04	
8	1.9701795E-03	-7.2837643E-04	
9	1.8252135E-03	-7.2081350E-04	
10	1.6820664E-03	-7.1006565E-04	
11	1.5414505E-03	-6.9536792E-04	
12	1.4042386E-03	-6.7588001E-04	
13	1.2714788E-03	-6.5068837E-04	
14	1.1444091E-03	-6.1880902E-04	
15	1.0243736E-03	-5.8065373E-04	
16	9.1254272E-04	-5.3657153E-04	
17	8.0986658E-04	-4.9065728E-04	
18	7.1612003E-04	-4.4713193E-04	
19	6.3090162E-04	-4.0528945E-04	
20	5.5391401E-04	-3.6480056E-04	
21	4.8489125E-04	-3.2566884E-04	
22	4.2354547E-04	-2.8805741E-04	
23	3.6955470E-04	-2.5214982E-04	
24	3.2255925E-04	-2.1813665E-04	
25	2.8216045E-04	-1.8621737E-04	
26	2.4791868E-04	-1.5660251E-04	
27	2.1935105E-04	-1.2951569E-04	
28	1.9593242E-04	-1.0513086E-04	
29	1.7711368E-04	-8.3521391E-05	
30	1.6233928E-04	-6.4680617E-05	
31	1.5106171E-04	-4.8535733E-05	
32	1.4275407E-04	-3.4955134E-05	
33	1.3692065E-04	-2.3760305E-05	
34	1.3310484E-04	-1.4742118E-05	
35	1.3089381E-04	-7.6737935E-06	
36	1.2992091E-04	-2.3217210E-06	
37	1.2986617E-04	1.5460330E-06	
38	1.3045529E-04	4.1532974E-06	
39	1.3145751E-04	5.7109111E-06	
40	1.3268265E-04	6.4135134E-06	
41	1.3397767E-04	6.4374639E-06	
42	1.3522286E-04	5.9397981E-06	
43	1.3632798E-04	5.0579935E-06	
44	1.3722834E-04	3.9103666E-06	
45	1.3788107E-04	2.5969464E-06	
46	1.3826159E-04	1.2006479E-06	
47	1.3836029E-04	-2.1127250E-07	
48	1.3817958E-04	-1.5857081E-06	
49	1.3773121E-04	-2.8821231E-06	
50	1.3703390E-04	-4.0709998E-06	
51	1.3611131E-04	-5.1323889E-06	
52	1.3499020E-04	-6.0545340E-06	
53	1.3369914E-04	-6.8325480E-06	
54	1.3226678E-04	-7.4676213E-06	
55	1.3072122E-04	-7.9657816E-06	
56	1.2908890E-04	-8.3373315E-06	
57	1.2739380E-04	-8.5962115E-06	
58	1.2565679E-04	-8.7595506E-06	
59	1.2389502E-04	-8.8473471E-06	
60	1.2212138E-04	-8.8822602E-06	
61	1.2034387E-04	-8.8894900E-06	

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
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|          NewProject.BaseDesignSection_28.A1M1R1_1757  |
|          Exe Time :24 May 2018          18:23:40  |
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New Project

STRESS RESULTS FOR GROUP NO. 1

0\_L  
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 61  
CURRENT TIME IS 4.0000

HARDENING 2D SOIL ELEMENT

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

EL * FACTOR	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
1 D	0.000	-3.0026E-03	0.000	0.000	0.000	0.000	PASSIVE	0.000	0.000	0.000	
1.000	1.000	0.000	0.000	0.000	Ug5_2_8_L_0						
2 D	1.063	-2.8546E-03	2.417	3.603	2.417	4.707	UL-RL	8.2735E+04	-0.2000	1.714	
1.000	1.000	5.317	0.000	0.000	Ug5_2_8_L_0						
3 D	1.618	-2.7067E-03	5.263	4.663	5.263	8.349	UL-RL	8.2735E+04	-0.4000	3.429	
1.000	1.000	8.092	0.000	0.000	Ug5_2_8_L_0						
4 D	2.182	-2.5587E-03	8.287	5.767	8.287	11.12	UL-RL	8.2735E+04	-0.6000	5.143	
1.000	1.000	10.91	0.000	0.000	Ug5_2_8_L_0						
5 D	2.762	-2.4110E-03	11.66	6.952	11.66	13.46	UL-RL	8.2735E+04	-0.8000	6.857	
1.000	1.000	13.81	0.000	0.000	Ug5_2_8_L_0						
6 D	3.340	-2.2634E-03	15.03	8.128	15.03	15.59	UL-RL	8.2735E+04	-1.000	8.571	
1.000	1.000	16.70	0.000	0.000	Ug5_2_8_L_0						
7 D	3.890	-2.1164E-03	17.91	9.167	17.91	17.61	UL-RL	8.2735E+04	-1.200	10.29	
1.000	1.000	19.45	0.000	0.000	Ug5_2_8_L_0						
8 D	4.431	-1.9702E-03	20.69	10.16	20.69	19.55	UL-RL	8.2735E+04	-1.400	12.00	
1.000	1.000	22.16	0.000	0.000	Ug5_2_8_L_0						
9 D	4.970	-1.8252E-03	23.57	11.13	23.57	21.42	UL-RL	8.2735E+04	-1.600	13.71	
1.000	1.000	24.85	0.000	0.000	Ug5_2_8_L_0						
10 D	5.488	-1.6821E-03	26.24	12.01	26.24	23.24	UL-RL	8.2735E+04	-1.800	15.43	
1.000	1.000	27.44	0.000	0.000	Ug5_2_8_L_0						
11 D	6.000	-1.5415E-03	29.03	12.86	29.03	24.99	UL-RL	8.2735E+04	-2.000	17.14	
1.000	1.000	30.00	0.000	0.000	Ug5_2_8_L_0						
12 D	6.489	-1.4042E-03	31.66	13.59	31.66	26.69	UL-RL	8.2735E+04	-2.200	18.86	
1.000	1.000	32.45	0.000	0.000	Ug5_2_8_L_0						
13 D	6.964	-1.2715E-03	34.41	14.25	34.41	28.34	UL-RL	8.2735E+04	-2.400	20.57	
1.000	1.000	34.82	0.000	0.000	Ug5_2_8_L_0						
14 D	7.407	-1.1444E-03	37.05	14.75	37.05	29.93	UL-RL	8.2735E+04	-2.600	22.29	
1.000	1.000	37.03	0.000	0.000	Ug5_2_8_L_0						
15 D	7.821	-1.0244E-03	39.80	15.11	39.80	31.47	UL-RL	8.2735E+04	-2.800	24.00	
1.000	1.000	39.11	0.000	0.000	Ug5_2_8_L_0						
16 D	8.192	-9.1254E-04	42.45	15.24	42.45	32.96	UL-RL	8.2735E+04	-3.000	25.71	
1.000	1.000	40.96	0.000	0.000	Ug5_2_8_L_0						
17 D	8.523	-8.0987E-04	45.19	15.19	45.19	34.40	UL-RL	8.2735E+04	-3.200	27.43	
1.000	1.000	42.62	0.000	0.000	Ug5_2_8_L_0						
18 D	8.820	-7.1612E-04	47.86	14.96	47.86	35.80	UL-RL	8.2735E+04	-3.400	29.14	
1.000	1.000	44.10	0.000	0.000	Ug5_2_8_L_0						
19 D	9.101	-6.3090E-04	50.54	14.65	50.54	37.15	UL-RL	8.2735E+04	-3.600	30.86	
1.000	1.000	45.51	0.000	0.000	Ug5_2_8_L_0						
20 D	9.378	-5.5391E-04	53.29	14.32	53.29	38.46	UL-RL	8.2735E+04	-3.800	32.57	
1.000	1.000	46.89	0.000	0.000	Ug5_2_8_L_0						
21 D	9.653	-4.8489E-04	55.98	13.98	55.98	39.73	UL-RL	8.2735E+04	-4.000	34.29	
1.000	1.000	48.26	0.000	0.000	Ug5_2_8_L_0						
22 D	10.12	-4.2355E-04	58.73	14.62	58.73	40.97	ACTIVE	0.000	-4.200	36.00	
1.000	1.000	50.62	0.000	0.000	Ug5_2_8_L_0						
23 D	10.60	-3.6955E-04	61.43	15.29	61.43	42.17	ACTIVE	0.000	-4.400	37.71	
1.000	1.000	53.01	0.000	0.000	Ug5_2_8_L_0						
24 D	11.08	-3.2256E-04	64.17	15.98	64.17	43.34	ACTIVE	0.000	-4.600	39.43	
1.000	1.000	55.41	0.000	0.000	Ug5_2_8_L_0						
25 D	11.56	-2.8216E-04	66.87	16.65	66.87	44.48	ACTIVE	0.000	-4.800	41.14	
1.000	1.000	57.79	0.000	0.000	Ug5_2_8_L_0						
26 D	12.04	-2.4792E-04	69.56	17.34	69.56	45.60	UL-RL	8.2735E+04	-5.000	42.86	
1.000	1.000	60.20	0.000	0.000	Ug5_2_8_L_0						
27 D	13.39	-2.1935E-04	72.04	22.39	72.04	46.69	UL-RL	8.2735E+04	-5.200	44.57	
1.000	1.000	66.96	0.000	0.000	Ug5_2_8_L_0						
28 D	14.60	-1.9593E-04	74.54	26.74	74.54	47.76	UL-RL	8.2735E+04	-5.400	46.29	
1.000	1.000	73.02	0.000	0.000	Ug5_2_8_L_0						
29 D	15.69	-1.7711E-04	77.03	30.44	77.03	48.81	UL-RL	8.2735E+04	-5.600	48.00	
1.000	1.000	78.44	0.000	0.000	Ug5_2_8_L_0						
30 D	16.66	-1.6234E-04	79.54	33.59	79.54	49.85	UL-RL	8.2735E+04	-5.800	49.71	
1.000	1.000	83.30	0.000	0.000	Ug5_2_8_L_0						
31 D	17.54	-1.5106E-04	82.05	36.25	82.05	50.86	UL-RL	8.2735E+04	-6.000	51.43	
1.000	1.000	87.68	0.000	0.000	Ug5_2_8_L_0						
32 D	18.33	-1.4275E-04	84.55	38.49	84.55	51.86	UL-RL	8.2735E+04	-6.200	53.14	
1.000	1.000	91.63	0.000	0.000	Ug5_2_8_L_0						
33 D	19.05	-1.3692E-04	87.06	40.38	87.06	52.85	UL-RL	8.2735E+04	-6.400	54.86	

1.000	1.000	95.24	0.000	0.000	Ug5_2_8_L_0					
34 D	19.71	-1.3310E-04	89.81	41.99	89.81	53.82	UL-RL	8.2735E+04	-6.600	56.57
1.000	1.000	98.56	0.000	0.000	Ug5_2_8_L_0					
35 D	20.33	-1.3089E-04	92.46	43.36	92.46	54.79	UL-RL	8.2735E+04	-6.800	58.29
1.000	1.000	101.6	0.000	0.000	Ug5_2_8_L_0					
36 D	20.91	-1.2992E-04	95.67	44.55	95.67	55.74	UL-RL	8.2735E+04	-7.000	60.00
1.000	1.000	104.6	0.000	0.000	Ug5_2_8_L_0					
37 D	21.46	-1.2987E-04	98.29	45.61	98.29	56.68	UL-RL	8.2735E+04	-7.200	61.71
1.000	1.000	107.3	0.000	0.000	Ug5_2_8_L_0					
38 D	22.00	-1.3046E-04	101.4	46.56	101.4	57.62	UL-RL	8.2735E+04	-7.400	63.43
1.000	1.000	110.0	0.000	0.000	Ug5_2_8_L_0					
39 D	22.52	-1.3146E-04	104.0	47.44	104.0	58.55	UL-RL	8.2735E+04	-7.600	65.14
1.000	1.000	112.6	0.000	0.000	Ug5_2_8_L_0					
40 D	23.03	-1.3268E-04	107.1	48.29	107.1	59.47	UL-RL	8.2735E+04	-7.800	66.86
1.000	1.000	115.1	0.000	0.000	Ug5_2_8_L_0					
41 D	23.54	-1.3398E-04	110.2	49.11	110.2	60.38	UL-RL	8.2735E+04	-8.000	68.57
1.000	1.000	117.7	0.000	0.000	Ug5_2_8_L_0					
42 D	24.04	-1.3522E-04	112.7	49.93	112.7	61.29	UL-RL	8.2735E+04	-8.200	70.29
1.000	1.000	120.2	0.000	0.000	Ug5_2_8_L_0					
43 D	24.55	-1.3633E-04	115.7	50.75	115.7	62.20	UL-RL	8.2735E+04	-8.400	72.00
1.000	1.000	122.8	0.000	0.000	Ug5_2_8_L_0					
44 D	25.06	-1.3723E-04	118.2	51.60	118.2	63.10	UL-RL	8.2735E+04	-8.600	73.71
1.000	1.000	125.3	0.000	0.000	Ug5_2_8_L_0					
45 D	25.58	-1.3788E-04	121.2	52.47	121.2	64.00	UL-RL	8.2735E+04	-8.800	75.43
1.000	1.000	127.9	0.000	0.000	Ug5_2_8_L_0					
46 D	26.10	-1.3826E-04	123.7	53.38	123.7	64.90	UL-RL	8.2735E+04	-9.000	77.14
1.000	1.000	130.5	0.000	0.000	Ug5_2_8_L_0					
47 D	26.63	-1.3836E-04	126.6	54.31	126.6	65.79	UL-RL	8.2735E+04	-9.200	78.86
1.000	1.000	133.2	0.000	0.000	Ug5_2_8_L_0					
48 D	27.17	-1.3818E-04	129.1	55.28	129.1	66.68	UL-RL	8.2735E+04	-9.400	80.57
1.000	1.000	135.9	0.000	0.000	Ug5_2_8_L_0					
49 D	27.71	-1.3773E-04	132.0	56.29	132.0	67.57	UL-RL	8.2735E+04	-9.600	82.29
1.000	1.000	138.6	0.000	0.000	Ug5_2_8_L_0					
50 D	28.26	-1.3703E-04	134.5	57.32	134.5	68.45	UL-RL	8.2735E+04	-9.800	84.00
1.000	1.000	141.3	0.000	0.000	Ug5_2_8_L_0					
51 D	28.82	-1.3611E-04	137.4	58.38	137.4	69.34	UL-RL	8.2735E+04	-10.00	85.71
1.000	1.000	144.1	0.000	0.000	Ug5_2_8_L_0					
52 D	29.38	-1.3499E-04	139.8	59.46	139.8	70.22	UL-RL	8.2735E+04	-10.20	87.43
1.000	1.000	146.9	0.000	0.000	Ug5_2_8_L_0					
53 D	29.94	-1.3370E-04	142.7	60.57	142.7	71.11	UL-RL	8.2735E+04	-10.40	89.14
1.000	1.000	149.7	0.000	0.000	Ug5_2_8_L_0					
54 D	30.51	-1.3227E-04	145.5	61.69	145.5	71.99	UL-RL	8.2735E+04	-10.60	90.86
1.000	1.000	152.5	0.000	0.000	Ug5_2_8_L_0					
55 D	31.08	-1.3072E-04	147.9	62.83	147.9	72.87	UL-RL	8.2735E+04	-10.80	92.57
1.000	1.000	155.4	0.000	0.000	Ug5_2_8_L_0					
56 D	31.65	-1.2909E-04	150.7	63.98	150.7	73.75	UL-RL	8.2735E+04	-11.00	94.29
1.000	1.000	158.3	0.000	0.000	Ug5_2_8_L_0					
57 D	32.23	-1.2739E-04	153.2	65.13	153.2	74.64	UL-RL	8.2735E+04	-11.20	96.00
1.000	1.000	161.1	0.000	0.000	Ug5_2_8_L_0					
58 D	32.80	-1.2566E-04	155.9	66.30	155.9	75.52	UL-RL	8.2735E+04	-11.40	97.71
1.000	1.000	164.0	0.000	0.000	Ug5_2_8_L_0					
59 D	33.38	-1.2390E-04	158.4	67.46	158.4	76.40	UL-RL	8.2735E+04	-11.60	99.43
1.000	1.000	166.9	0.000	0.000	Ug5_2_8_L_0					
60 D	33.95	-1.2212E-04	161.1	68.63	161.1	77.28	UL-RL	8.2735E+04	-11.80	101.1
1.000	1.000	169.8	0.000	0.000	Ug5_2_8_L_0					
61 D	17.27	-1.2034E-04	163.5	69.80	163.5	78.16	UL-RL	8.2735E+04	-12.00	102.9
1.000	1.000	172.7	0.000	0.000	Ug5_2_8_L_0					



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|                PARATIEPLUS(TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION *Build date:Jul 11, 2017*                |
|                                                                                                                                            |
|                                                                                                                                            |
|                NewProject.BaseDesignSection_28.A1M1R1_1757                                                                              |
|                Exe Time :24 May 2018      18:23:40                                                                              |
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New Project

STRESS RESULTS FOR GROUP NO. 2

0\_R  
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 61  
CURRENT TIME IS 4.0000

HARDENING 2D SOIL ELEMENT

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

EL * FACTOR	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
1	0.000	--	--	--	--	--	REMOVED	--	0.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
2	0.000	--	--	--	--	--	REMOVED	--	-0.2000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
3	0.000	--	--	--	--	--	REMOVED	--	-0.4000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
4	0.000	--	--	--	--	--	REMOVED	--	-0.6000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
5	0.000	--	--	--	--	--	REMOVED	--	-0.8000	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	--	-1.200	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
8	0.000	--	--	--	--	--	REMOVED	--	-1.400	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
9	0.000	--	--	--	--	--	REMOVED	--	-1.600	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
10	0.000	--	--	--	--	--	REMOVED	--	-1.800	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
11	0.000	--	--	--	--	--	REMOVED	--	-2.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
12	0.000	--	--	--	--	--	REMOVED	--	-2.200	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
13	0.000	--	--	--	--	--	REMOVED	--	-2.400	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
14	0.000	--	--	--	--	--	REMOVED	--	-2.600	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
15	0.000	--	--	--	--	--	REMOVED	--	-2.800	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
16 D	0.000	9.1254E-04	0.000	0.000	30.00	50.51	PASSIVE	0.000	-3.000	0.000	
1.000	1.000	0.000	0.000	0.000	Ug5_2_8_L_0						
17 D	2.418	8.0987E-04	1.714	9.802	32.00	49.58	UL-RL	4.1133E+04	-3.200	2.286	
1.000	1.000	12.09	0.000	0.000	Ug5_2_8_L_0						
18 D	5.276	7.1612E-04	3.429	21.81	34.00	48.75	UL-RL	4.1133E+04	-3.400	4.571	
1.000	1.000	26.38	0.000	0.000	Ug5_2_8_L_0						
19 D	8.143	6.3090E-04	5.143	33.86	36.00	48.03	UL-RL	4.1133E+04	-3.600	6.857	
1.000	1.000	40.72	0.000	0.000	Ug5_2_8_L_0						
20 D	10.38	5.5391E-04	6.857	42.77	38.00	47.44	UL-RL	4.1133E+04	-3.800	9.143	
1.000	1.000	51.91	0.000	0.000	Ug5_2_8_L_0						
21 D	10.88	4.8489E-04	8.571	42.99	40.00	46.98	UL-RL	4.1133E+04	-4.000	11.43	
1.000	1.000	54.42	0.000	0.000	Ug5_2_8_L_0						
22 D	11.40	4.2355E-04	10.29	43.29	42.00	46.65	UL-RL	4.1133E+04	-4.200	13.71	
1.000	1.000	57.00	0.000	0.000	Ug5_2_8_L_0						
23 D	11.93	3.6955E-04	12.00	43.66	44.00	46.45	UL-RL	4.1133E+04	-4.400	16.00	
1.000	1.000	59.66	0.000	0.000	Ug5_2_8_L_0						
24 D	12.48	3.2256E-04	13.71	44.11	46.00	46.38	UL-RL	4.1133E+04	-4.600	18.29	
1.000	1.000	62.39	0.000	0.000	Ug5_2_8_L_0						
25 D	13.04	2.8216E-04	15.43	44.63	48.00	46.44	UL-RL	4.1133E+04	-4.800	20.57	
1.000	1.000	65.20	0.000	0.000	Ug5_2_8_L_0						
26 D	13.61	2.4792E-04	17.14	45.21	50.00	46.63	UL-RL	4.1133E+04	-5.000	22.86	
1.000	1.000	68.07	0.000	0.000	Ug5_2_8_L_0						
27 D	14.20	2.1935E-04	18.86	45.86	52.00	46.93	UL-RL	4.1133E+04	-5.200	25.14	
1.000	1.000	71.00	0.000	0.000	Ug5_2_8_L_0						
28 D	14.80	1.9593E-04	20.57	46.56	54.00	47.33	UL-RL	4.1133E+04	-5.400	27.43	
1.000	1.000	73.99	0.000	0.000	Ug5_2_8_L_0						
29 D	15.40	1.7711E-04	22.29	47.31	56.00	47.83	UL-RL	4.1133E+04	-5.600	29.71	
1.000	1.000	77.02	0.000	0.000	Ug5_2_8_L_0						
30 D	15.95	1.6234E-04	24.00	47.75	58.00	48.59	UL-RL	4.1133E+04	-5.800	32.00	
1.000	1.000	79.75	0.000	0.000	Ug5_2_8_L_0						
31 D	16.45	1.5106E-04	25.71	47.94	60.00	49.56	UL-RL	4.1133E+04	-6.000	34.29	
1.000	1.000	82.23	0.000	0.000	Ug5_2_8_L_0						
32 D	16.98	1.4275E-04	27.43	48.31	62.00	50.51	UL-RL	4.1133E+04	-6.200	36.57	
1.000	1.000	84.88	0.000	0.000	Ug5_2_8_L_0						
33 D	17.54	1.3692E-04	29.14	48.83	64.00	51.46	UL-RL	4.1133E+04	-6.400	38.86	

1.000	1.000	87.69	0.000	0.000	Ug5_2_8_L_0					
34 D	18.12	1.3310E-04	30.86	49.47	66.00	52.39	UL-RL	4.1133E+04	-6.600	41.14
1.000	1.000	90.61	0.000	0.000	Ug5_2_8_L_0					
35 D	18.73	1.3089E-04	32.57	50.20	68.00	53.31	UL-RL	4.1133E+04	-6.800	43.43
1.000	1.000	93.63	0.000	0.000	Ug5_2_8_L_0					
36 D	19.34	1.2992E-04	34.29	51.00	70.00	54.22	UL-RL	4.1133E+04	-7.000	45.71
1.000	1.000	96.72	0.000	0.000	Ug5_2_8_L_0					
37 D	19.97	1.2987E-04	36.00	51.86	72.00	55.12	UL-RL	4.1133E+04	-7.200	48.00
1.000	1.000	99.86	0.000	0.000	Ug5_2_8_L_0					
38 D	20.61	1.3046E-04	37.71	52.75	74.00	56.01	UL-RL	4.1133E+04	-7.400	50.29
1.000	1.000	103.0	0.000	0.000	Ug5_2_8_L_0					
39 D	21.25	1.3146E-04	39.43	53.66	76.00	56.89	UL-RL	4.1133E+04	-7.600	52.57
1.000	1.000	106.2	0.000	0.000	Ug5_2_8_L_0					
40 D	21.89	1.3268E-04	41.14	54.58	78.00	57.77	UL-RL	4.1133E+04	-7.800	54.86
1.000	1.000	109.4	0.000	0.000	Ug5_2_8_L_0					
41 D	22.53	1.3398E-04	42.86	55.50	80.00	58.64	UL-RL	4.1133E+04	-8.000	57.14
1.000	1.000	112.6	0.000	0.000	Ug5_2_8_L_0					
42 D	23.17	1.3522E-04	44.57	56.42	82.00	59.51	UL-RL	4.1133E+04	-8.200	59.43
1.000	1.000	115.8	0.000	0.000	Ug5_2_8_L_0					
43 D	23.81	1.3633E-04	46.29	57.32	84.00	60.37	UL-RL	4.1133E+04	-8.400	61.71
1.000	1.000	119.0	0.000	0.000	Ug5_2_8_L_0					
44 D	24.44	1.3723E-04	48.00	58.20	86.00	61.23	UL-RL	4.1133E+04	-8.600	64.00
1.000	1.000	122.2	0.000	0.000	Ug5_2_8_L_0					
45 D	25.07	1.3788E-04	49.71	59.06	88.00	62.09	UL-RL	4.1133E+04	-8.800	66.29
1.000	1.000	125.3	0.000	0.000	Ug5_2_8_L_0					
46 D	25.70	1.3826E-04	51.43	59.91	90.00	62.94	UL-RL	4.1133E+04	-9.000	68.57
1.000	1.000	128.5	0.000	0.000	Ug5_2_8_L_0					
47 D	26.32	1.3836E-04	53.14	60.73	92.00	63.79	UL-RL	4.1133E+04	-9.200	70.86
1.000	1.000	131.6	0.000	0.000	Ug5_2_8_L_0					
48 D	26.93	1.3818E-04	54.86	61.53	94.00	64.64	UL-RL	4.1133E+04	-9.400	73.14
1.000	1.000	134.7	0.000	0.000	Ug5_2_8_L_0					
49 D	27.55	1.3773E-04	56.57	62.31	96.00	65.48	UL-RL	4.1133E+04	-9.600	75.43
1.000	1.000	137.7	0.000	0.000	Ug5_2_8_L_0					
50 D	28.16	1.3703E-04	58.29	63.07	98.00	66.32	UL-RL	4.1133E+04	-9.800	77.71
1.000	1.000	140.8	0.000	0.000	Ug5_2_8_L_0					
51 D	28.76	1.3611E-04	60.00	63.82	100.00	67.17	UL-RL	4.1133E+04	-10.000	80.00
1.000	1.000	143.8	0.000	0.000	Ug5_2_8_L_0					
52 D	29.37	1.3499E-04	61.71	64.55	102.0	68.01	UL-RL	4.1133E+04	-10.200	82.29
1.000	1.000	146.8	0.000	0.000	Ug5_2_8_L_0					
53 D	29.97	1.3370E-04	63.43	65.27	104.0	68.85	UL-RL	4.1133E+04	-10.400	84.57
1.000	1.000	149.8	0.000	0.000	Ug5_2_8_L_0					
54 D	30.57	1.3227E-04	65.14	65.97	106.0	69.69	UL-RL	4.1133E+04	-10.600	86.86
1.000	1.000	152.8	0.000	0.000	Ug5_2_8_L_0					
55 D	31.16	1.3072E-04	66.86	66.67	108.0	70.52	UL-RL	4.1133E+04	-10.800	89.14
1.000	1.000	155.8	0.000	0.000	Ug5_2_8_L_0					
56 D	31.76	1.2909E-04	68.57	67.37	110.0	71.36	UL-RL	4.1133E+04	-11.000	91.43
1.000	1.000	158.8	0.000	0.000	Ug5_2_8_L_0					
57 D	32.35	1.2739E-04	70.29	68.06	112.0	72.20	UL-RL	4.1133E+04	-11.200	93.71
1.000	1.000	161.8	0.000	0.000	Ug5_2_8_L_0					
58 D	32.95	1.2566E-04	72.00	68.74	114.0	73.04	UL-RL	4.1133E+04	-11.400	96.00
1.000	1.000	164.7	0.000	0.000	Ug5_2_8_L_0					
59 D	33.54	1.2390E-04	73.71	69.42	116.0	73.88	UL-RL	4.1133E+04	-11.600	98.29
1.000	1.000	167.7	0.000	0.000	Ug5_2_8_L_0					
60 D	34.14	1.2212E-04	75.43	70.11	118.0	74.72	UL-RL	4.1133E+04	-11.800	100.6
1.000	1.000	170.7	0.000	0.000	Ug5_2_8_L_0					
61 D	17.36	1.2034E-04	77.14	70.79	120.0	75.56	UL-RL	4.1133E+04	-12.000	102.9
1.000	1.000	173.6	0.000	0.000	Ug5_2_8_L_0					

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION *Build date:Jul 11, 2017*  |
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New Project

STRESS RESULTS FOR GROUP NO. 3

WallElement\_33 :  
ELEMENT TYPE 2 NO.OF ELEMENTS. IN THIS GROUP 60  
CURRENT TIME IS 4.0000

WALL2D ELEMENT

EL	TA	TB	MA	MB
1	2.80096E-11	-2.80096E-11	2.90723E-12	7.50111E-12
2	1.0634	-1.0634	1.60880E-11	0.21268
3	2.6818	-2.6818	-0.21268	0.74904
4	4.8637	-4.8637	-0.74904	1.7218
5	7.6256	-7.6256	-1.7218	3.2469
6	10.966	-10.966	-3.2469	5.4400
7	14.856	-14.856	-5.4400	8.4112
8	19.287	-19.287	-8.4112	12.269
9	24.257	-24.257	-12.269	17.120
10	29.745	-29.745	-17.120	23.069
11	35.746	-35.746	-23.069	30.218
12	42.235	-42.235	-30.218	38.665
13	49.199	-49.199	-38.665	48.505
14	36.605	-36.605	-48.505	55.826
15	44.426	-44.426	-55.826	64.711
16	-19.382	19.382	-64.711	60.835
17	-13.276	13.276	-60.835	58.180
18	-9.7319	9.7319	-58.180	56.233
19	-8.7743	8.7743	-56.233	54.478
20	-9.7782	9.7782	-54.478	52.523
21	-11.010	11.010	-52.523	50.321
22	-12.285	12.285	-50.321	47.864
23	-13.615	13.615	-47.864	45.141
24	-15.012	15.012	-45.141	42.138
25	-16.493	16.493	-42.138	38.840
26	-18.068	18.068	-38.840	35.226
27	-18.875	18.875	-35.226	31.451
28	-19.069	19.069	-31.451	27.637
29	-18.784	18.784	-27.637	23.880
30	-18.073	18.073	-23.880	20.266
31	-16.984	16.984	-20.266	16.869
32	-15.635	15.635	-16.869	13.742
33	-14.124	14.124	-13.742	10.917
34	-12.534	12.534	-10.917	8.4103
35	-10.930	10.930	-8.4103	6.2243
36	-9.3630	9.3630	-6.2243	4.3517
37	-7.8706	7.8706	-4.3517	2.7776
38	-6.4801	6.4801	-2.7776	1.4815
39	-5.2095	5.2095	-1.4815	0.43964
40	-4.0689	4.0689	-0.43964	-0.37415
41	-3.0625	3.0625	0.37415	-0.98665
42	-2.1894	2.1894	0.98665	-1.4245
43	-1.4449	1.4449	1.4245	-1.7135
44	-0.82188	0.82188	1.7135	-1.8779
45	-0.31114	0.31114	1.8779	-1.9401
46	9.75554E-02	-9.75554E-02	1.9401	-1.9206
47	0.41493	-0.41493	1.9206	-1.8376
48	0.65176	-0.65176	1.8376	-1.7073
49	0.81842	-0.81842	1.7073	-1.5436
50	0.92466	-0.92466	1.5436	-1.3587
51	0.97936	-0.97936	1.3587	-1.1628
52	0.99037	-0.99037	1.1628	-0.96471
53	0.96448	-0.96448	0.96471	-0.77182
54	0.90737	-0.90737	0.77182	-0.59034
55	0.82363	-0.82363	0.59034	-0.42562
56	0.71678	-0.71678	0.42562	-0.28226
57	0.58944	-0.58944	0.28226	-0.16437
58	0.44337	-0.44337	0.16437	-7.56974E-02
59	0.27965	-0.27965	7.56974E-02	-1.97681E-02
60	9.88354E-02	-9.88354E-02	1.97681E-02	4.26784E-13

ITER 0 RNORM =0.1751E+05 RMNORM= 0.000  
RINORM=0.7186E+05 RIMNOR=0.8802E+05  
RENORM=0.2149E+05 REMNOR=0.5442E-21 RATIO =0.5468 TOLER =0.1000E-03 NOT CONVERGED  
RFMAX = 105.0 RMMAX = 64.71  
RTSMAL=0.1000E-02 RMSMAL=0.1000E-03  
RDT =0.7186E+05 RDR =0.8802E+05  
RATIOT=0.5468 RATIOR= 0.000  
MAX UN= 71.83 IEQ= 31 NODE 16 DOF 1 Y-DISPL.F

MIN UN=-102.8 IEQ= 33 NODE 17 DOF 1 Y-DISPL.F  
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 2 RNORM =0.1751E+05 RMNORM= 0.000  
RINORM=0.7186E+05 RIMNOR=0.8802E+05  
RENORM=0.1536E-18 REMNOR=0.3707E-21 RATIO =0.1462E-11 TOLER =0.1000E-03 CONVERGED !  
RFMAX = 105.0 RMMAX = 64.71  
RTSMAL=0.1000E-02 RMSMAL=0.1000E-03  
RDT =0.7186E+05 RDR =0.8802E+05  
RATIOT=0.1462E-11 RATIOOR= 0.000  
MAX UN=0.1912E-09 IEQ= 13 NODE 7 DOF 1 Y-DISPL.F  
MIN UN=-.1471E-09 IEQ= 7 NODE 4 DOF 1 Y-DISPL.F  
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
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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	3.0507820E-03	-7.8474715E-04	
2	2.8938326E-03	-7.8474715E-04	
3	2.7368859E-03	-7.8470582E-04	
4	2.5799618E-03	-7.8449256E-04	
5	2.4231155E-03	-7.8388029E-04	
6	2.2664579E-03	-7.8254355E-04	
7	2.1101747E-03	-7.8005735E-04	
8	1.9545465E-03	-7.7589912E-04	
9	1.7999677E-03	-7.6945124E-04	
10	1.6469661E-03	-7.6000153E-04	
11	1.4962209E-03	-7.4674449E-04	
12	1.3485819E-03	-7.2878276E-04	
13	1.2050873E-03	-7.0512879E-04	
14	1.0669816E-03	-6.7470703E-04	
15	9.3573307E-04	-6.3635674E-04	
16	8.1305028E-04	-5.8883594E-04	
17	7.0089738E-04	-5.3082654E-04	
18	6.0099868E-04	-4.6862323E-04	
19	5.1331199E-04	-4.0846135E-04	
20	4.3757757E-04	-3.4884808E-04	
21	3.7383868E-04	-2.8825069E-04	
22	3.2205512E-04	-2.3099079E-04	
23	2.8092452E-04	-1.8149846E-04	
24	2.4901524E-04	-1.3861368E-04	
25	2.2509219E-04	-1.0153179E-04	
26	2.0804855E-04	-6.9759459E-05	
27	1.9685617E-04	-4.2971510E-05	
28	1.9054889E-04	-2.0850327E-05	
29	1.8822908E-04	-3.0335263E-06	
30	1.8907443E-04	1.0867538E-05	
31	1.9234196E-04	2.1256607E-05	
32	1.9737056E-04	2.8548359E-05	
33	2.0358260E-04	3.3159872E-05	
34	2.1048296E-04	3.5498239E-05	
35	2.1765620E-04	3.5951290E-05	
36	2.2476190E-04	3.4880630E-05	
37	2.3152889E-04	3.2616922E-05	
38	2.3774888E-04	2.9456963E-05	
39	2.4326937E-04	2.5662443E-05	
40	2.4798666E-04	2.1459841E-05	
41	2.5183891E-04	1.7041386E-05	
42	2.5479946E-04	1.2566751E-05	
43	2.5687049E-04	8.1653143E-06	
44	2.5807725E-04	3.9387748E-06	
45	2.5846279E-04	-3.5984776E-08	
46	2.5808330E-04	-3.7040519E-06	
47	2.5700401E-04	-7.0294537E-06	
48	2.5529568E-04	-9.9924255E-06	
49	2.5303162E-04	-1.2586737E-05	
50	2.5028525E-04	-1.4817234E-05	
51	2.4712808E-04	-1.6697672E-05	
52	2.4362806E-04	-1.8248724E-05	
53	2.3984893E-04	-1.9496126E-05	
54	2.3584805E-04	-2.0469694E-05	
55	2.3167717E-04	-2.1201598E-05	
56	2.2738126E-04	-2.1725709E-05	
57	2.2299842E-04	-2.2076790E-05	
58	2.1855974E-04	-2.2289946E-05	
59	2.1408930E-04	-2.2400232E-05	
60	2.0960419E-04	-2.2442408E-05	
61	2.0511436E-04	-2.2450790E-05	

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*          |
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|          NewProject.BaseDesignSection_28.A1M1R1_1757          |
|          Exe Time :24 May 2018          18:23:40          |
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New Project

STRESS RESULTS FOR GROUP NO. 1

0\_L :  
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 61  
CURRENT TIME IS 5.0000

HARDENING 2D SOIL ELEMENT

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

EL * FACTOR	FORCE UFACOR	DISPL-Y Peq	VERTICAL-P Su_a	HORIZON.-P Su_p	MAX-V-P LAYER	MAX-H-P	STATE	STIFFNESS	Z-LEVEL	PORE	E
1 D	0.000	-3.0508E-03	0.000	0.000	0.000	0.000	ACTIVE	0.000	0.000	0.000	
1.000	1.000	0.000	0.000	0.000	Ug5_2_8_L_0						
2 D	0.5651	-2.8938E-03	2.532	1.226	2.532	4.707	UL-RL	6.2051E+04	-0.2000	1.600	
1.000	1.000	2.826	0.000	0.000	Ug5_2_8_L_0						
3 D	1.220	-2.7369E-03	5.492	2.902	5.492	8.349	UL-RL	6.2051E+04	-0.4000	3.200	
1.000	1.000	6.102	0.000	0.000	Ug5_2_8_L_0						
4 D	1.884	-2.5800E-03	8.629	4.622	8.629	11.12	UL-RL	6.2051E+04	-0.6000	4.800	
1.000	1.000	9.422	0.000	0.000	Ug5_2_8_L_0						
5 D	2.565	-2.4231E-03	12.12	6.426	12.12	13.46	UL-RL	6.2051E+04	-0.8000	6.400	
1.000	1.000	12.83	0.000	0.000	Ug5_2_8_L_0						
6 D	3.245	-2.2665E-03	15.60	8.226	15.60	15.59	UL-RL	6.2051E+04	-1.0000	8.000	
1.000	1.000	16.23	0.000	0.000	Ug5_2_8_L_0						
7 D	3.899	-2.1102E-03	18.60	9.896	18.60	17.61	UL-RL	6.2051E+04	-1.2000	9.600	
1.000	1.000	19.50	0.000	0.000	Ug5_2_8_L_0						
8 D	4.545	-1.9545E-03	21.49	11.53	21.49	19.55	UL-RL	6.2051E+04	-1.4000	11.20	
1.000	1.000	22.73	0.000	0.000	Ug5_2_8_L_0						
9 D	5.192	-1.8000E-03	24.49	13.16	24.49	21.42	UL-RL	6.2051E+04	-1.6000	12.80	
1.000	1.000	25.96	0.000	0.000	Ug5_2_8_L_0						
10 D	5.821	-1.6470E-03	27.27	14.71	27.27	23.24	UL-RL	6.2051E+04	-1.8000	14.40	
1.000	1.000	29.11	0.000	0.000	Ug5_2_8_L_0						
11 D	6.447	-1.4962E-03	30.17	16.24	30.17	24.99	UL-RL	6.2051E+04	-2.0000	16.00	
1.000	1.000	32.24	0.000	0.000	Ug5_2_8_L_0						
12 D	7.054	-1.3486E-03	32.92	17.67	32.92	26.69	UL-RL	6.2051E+04	-2.2000	17.60	
1.000	1.000	35.27	0.000	0.000	Ug5_2_8_L_0						
13 D	7.650	-1.2051E-03	35.78	19.05	35.78	28.34	UL-RL	6.2051E+04	-2.4000	19.20	
1.000	1.000	38.25	0.000	0.000	Ug5_2_8_L_0						
14 D	8.219	-1.0670E-03	38.54	20.30	38.54	29.93	UL-RL	6.2051E+04	-2.6000	20.80	
1.000	1.000	41.10	0.000	0.000	Ug5_2_8_L_0						
15 D	8.761	-9.3573E-04	41.40	21.41	41.40	31.47	UL-RL	6.2051E+04	-2.8000	22.40	
1.000	1.000	43.81	0.000	0.000	Ug5_2_8_L_0						
16 D	9.255	-8.1305E-04	44.16	22.28	44.16	32.96	UL-RL	6.2051E+04	-3.0000	24.00	
1.000	1.000	46.28	0.000	0.000	Ug5_2_8_L_0						
17 D	9.693	-7.0090E-04	47.02	22.86	47.02	34.40	UL-RL	6.2051E+04	-3.2000	25.60	
1.000	1.000	48.46	0.000	0.000	Ug5_2_8_L_0						
18 D	10.05	-6.0100E-04	49.81	23.07	49.81	35.80	UL-RL	6.2051E+04	-3.4000	27.20	
1.000	1.000	50.27	0.000	0.000	Ug5_2_8_L_0						
19 D	10.35	-5.1331E-04	52.60	22.97	52.60	37.15	UL-RL	6.2051E+04	-3.6000	28.80	
1.000	1.000	51.77	0.000	0.000	Ug5_2_8_L_0						
20 D	10.60	-4.3758E-04	55.47	22.62	55.47	38.46	UL-RL	6.2051E+04	-3.8000	30.40	
1.000	1.000	53.02	0.000	0.000	Ug5_2_8_L_0						
21 D	10.80	-3.7384E-04	58.27	22.01	58.27	39.73	UL-RL	6.2051E+04	-4.0000	32.00	
1.000	1.000	54.01	0.000	0.000	Ug5_2_8_L_0						
22 D	11.14	-3.2206E-04	61.13	22.12	61.13	40.97	UL-RL	6.2051E+04	-4.2000	33.60	
1.000	1.000	55.72	0.000	0.000	Ug5_2_8_L_0						
23 D	11.45	-2.8092E-04	63.94	22.05	63.94	42.17	UL-RL	6.2051E+04	-4.4000	35.20	
1.000	1.000	57.25	0.000	0.000	Ug5_2_8_L_0						
24 D	11.73	-2.4902E-04	66.80	21.86	66.80	43.34	UL-RL	6.2051E+04	-4.6000	36.80	
1.000	1.000	58.66	0.000	0.000	Ug5_2_8_L_0						
25 D	11.99	-2.2509E-04	69.61	21.56	69.61	44.48	UL-RL	6.2051E+04	-4.8000	38.40	
1.000	1.000	59.96	0.000	0.000	Ug5_2_8_L_0						
26 D	12.25	-2.0805E-04	72.41	21.24	72.41	45.60	UL-RL	6.2051E+04	-5.0000	40.00	
1.000	1.000	61.24	0.000	0.000	Ug5_2_8_L_0						
27 D	13.38	-1.9686E-04	75.01	25.28	75.01	46.69	UL-RL	6.2051E+04	-5.2000	41.60	
1.000	1.000	66.88	0.000	0.000	Ug5_2_8_L_0						
28 D	14.36	-1.9055E-04	77.62	28.61	77.62	47.76	UL-RL	6.2051E+04	-5.4000	43.20	
1.000	1.000	71.81	0.000	0.000	Ug5_2_8_L_0						
29 D	15.23	-1.8823E-04	80.23	31.35	80.23	48.81	UL-RL	6.2051E+04	-5.6000	44.80	
1.000	1.000	76.15	0.000	0.000	Ug5_2_8_L_0						
30 D	16.00	-1.8907E-04	82.85	33.59	82.85	49.85	UL-RL	6.2051E+04	-5.8000	46.40	
1.000	1.000	79.99	0.000	0.000	Ug5_2_8_L_0						
31 D	16.68	-1.9234E-04	85.47	35.40	85.47	50.86	UL-RL	6.2051E+04	-6.0000	48.00	
1.000	1.000	83.40	0.000	0.000	Ug5_2_8_L_0						
32 D	17.29	-1.9737E-04	88.10	36.87	88.10	51.86	UL-RL	6.2051E+04	-6.2000	49.60	
1.000	1.000	86.47	0.000	0.000	Ug5_2_8_L_0						
33 D	17.85	-2.0358E-04	90.72	38.07	90.72	52.85	UL-RL	6.2051E+04	-6.4000	51.20	

1.000	1.000	89.27	0.000	0.000	Ug5_2_8_L_0					
34 D	18.37	-2.1048E-04	93.58	39.07	93.58	53.82	UL-RL	6.2051E+04	-6.600	52.80
1.000	1.000	91.87	0.000	0.000	Ug5_2_8_L_0					
35 D	18.86	-2.1766E-04	96.35	39.92	96.35	54.79	UL-RL	6.2051E+04	-6.800	54.40
1.000	1.000	94.32	0.000	0.000	Ug5_2_8_L_0					
36 D	19.33	-2.2476E-04	99.67	40.67	99.67	55.74	UL-RL	6.2051E+04	-7.000	56.00
1.000	1.000	96.67	0.000	0.000	Ug5_2_8_L_0					
37 D	19.79	-2.3153E-04	102.4	41.35	102.4	56.68	UL-RL	6.2051E+04	-7.200	57.60
1.000	1.000	98.95	0.000	0.000	Ug5_2_8_L_0					
38 D	20.24	-2.3775E-04	105.7	42.02	105.7	57.62	UL-RL	6.2051E+04	-7.400	59.20
1.000	1.000	101.2	0.000	0.000	Ug5_2_8_L_0					
39 D	20.70	-2.4327E-04	108.4	42.68	108.4	58.55	UL-RL	6.2051E+04	-7.600	60.80
1.000	1.000	103.5	0.000	0.000	Ug5_2_8_L_0					
40 D	21.15	-2.4799E-04	111.6	43.36	111.6	59.47	UL-RL	6.2051E+04	-7.800	62.40
1.000	1.000	105.8	0.000	0.000	Ug5_2_8_L_0					
41 D	21.62	-2.5184E-04	114.7	44.08	114.7	60.38	UL-RL	6.2051E+04	-8.000	64.00
1.000	1.000	108.1	0.000	0.000	Ug5_2_8_L_0					
42 D	22.09	-2.5480E-04	117.4	44.85	117.4	61.29	UL-RL	6.2051E+04	-8.200	65.60
1.000	1.000	110.4	0.000	0.000	Ug5_2_8_L_0					
43 D	22.57	-2.5687E-04	120.5	45.67	120.5	62.20	UL-RL	6.2051E+04	-8.400	67.20
1.000	1.000	112.9	0.000	0.000	Ug5_2_8_L_0					
44 D	23.07	-2.5808E-04	123.1	46.56	123.1	63.10	UL-RL	6.2051E+04	-8.600	68.80
1.000	1.000	115.4	0.000	0.000	Ug5_2_8_L_0					
45 D	23.58	-2.5846E-04	126.2	47.51	126.2	64.00	UL-RL	6.2051E+04	-8.800	70.40
1.000	1.000	117.9	0.000	0.000	Ug5_2_8_L_0					
46 D	24.10	-2.5808E-04	128.8	48.51	128.8	64.90	UL-RL	6.2051E+04	-9.000	72.00
1.000	1.000	120.5	0.000	0.000	Ug5_2_8_L_0					
47 D	24.64	-2.5700E-04	131.9	49.58	131.9	65.79	UL-RL	6.2051E+04	-9.200	73.60
1.000	1.000	123.2	0.000	0.000	Ug5_2_8_L_0					
48 D	25.18	-2.5530E-04	134.5	50.70	134.5	66.68	UL-RL	6.2051E+04	-9.400	75.20
1.000	1.000	125.9	0.000	0.000	Ug5_2_8_L_0					
49 D	25.73	-2.5303E-04	137.5	51.87	137.5	67.57	UL-RL	6.2051E+04	-9.600	76.80
1.000	1.000	128.7	0.000	0.000	Ug5_2_8_L_0					
50 D	26.30	-2.5029E-04	140.1	53.09	140.1	68.45	UL-RL	6.2051E+04	-9.800	78.40
1.000	1.000	131.5	0.000	0.000	Ug5_2_8_L_0					
51 D	26.87	-2.4713E-04	143.1	54.34	143.1	69.34	UL-RL	6.2051E+04	-10.00	80.00
1.000	1.000	134.3	0.000	0.000	Ug5_2_8_L_0					
52 D	27.45	-2.4363E-04	145.6	55.63	145.6	70.22	UL-RL	6.2051E+04	-10.20	81.60
1.000	1.000	137.2	0.000	0.000	Ug5_2_8_L_0					
53 D	28.03	-2.3985E-04	148.6	56.95	148.6	71.11	UL-RL	6.2051E+04	-10.40	83.20
1.000	1.000	140.2	0.000	0.000	Ug5_2_8_L_0					
54 D	28.62	-2.3585E-04	151.5	58.29	151.5	71.99	UL-RL	6.2051E+04	-10.60	84.80
1.000	1.000	143.1	0.000	0.000	Ug5_2_8_L_0					
55 D	29.21	-2.3168E-04	154.1	59.65	154.1	72.87	UL-RL	6.2051E+04	-10.80	86.40
1.000	1.000	146.0	0.000	0.000	Ug5_2_8_L_0					
56 D	29.80	-2.2738E-04	157.0	61.02	157.0	73.75	UL-RL	6.2051E+04	-11.00	88.00
1.000	1.000	149.0	0.000	0.000	Ug5_2_8_L_0					
57 D	30.40	-2.2300E-04	159.6	62.40	159.6	74.64	UL-RL	6.2051E+04	-11.20	89.60
1.000	1.000	152.0	0.000	0.000	Ug5_2_8_L_0					
58 D	31.00	-2.1856E-04	162.4	63.79	162.4	75.52	UL-RL	6.2051E+04	-11.40	91.20
1.000	1.000	155.0	0.000	0.000	Ug5_2_8_L_0					
59 D	31.60	-2.1409E-04	165.0	65.18	165.0	76.40	UL-RL	6.2051E+04	-11.60	92.80
1.000	1.000	158.0	0.000	0.000	Ug5_2_8_L_0					
60 D	32.19	-2.0960E-04	167.9	66.57	167.9	77.28	UL-RL	6.2051E+04	-11.80	94.40
1.000	1.000	161.0	0.000	0.000	Ug5_2_8_L_0					
61 D	16.40	-2.0511E-04	170.4	67.97	170.4	78.16	UL-RL	6.2051E+04	-12.00	96.00
1.000	1.000	164.0	0.000	0.000	Ug5_2_8_L_0					

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*          |
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NewProject.BaseDesignSection_28.A1M1R1_1757
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New Project

STRESS RESULTS FOR GROUP NO. 2

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O_R          :
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 61
CURRENT TIME IS 5.0000

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HARDENING 2D SOIL ELEMENT

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

EL * FACTOR	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
1	0.000	--	--	--	--	--	REMOVED	--	0.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
2	0.000	--	--	--	--	--	REMOVED	--	-0.2000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
3	0.000	--	--	--	--	--	REMOVED	--	-0.4000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
4	0.000	--	--	--	--	--	REMOVED	--	-0.6000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
5	0.000	--	--	--	--	--	REMOVED	--	-0.8000	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	--	-1.200	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
8	0.000	--	--	--	--	--	REMOVED	--	-1.400	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
9	0.000	--	--	--	--	--	REMOVED	--	-1.600	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
10	0.000	--	--	--	--	--	REMOVED	--	-1.800	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
11	0.000	--	--	--	--	--	REMOVED	--	-2.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
12	0.000	--	--	--	--	--	REMOVED	--	-2.200	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
13	0.000	--	--	--	--	--	REMOVED	--	-2.400	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
14	0.000	--	--	--	--	--	REMOVED	--	-2.600	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
15	0.000	--	--	--	--	--	REMOVED	--	-2.800	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
16	0.000	--	--	--	--	--	REMOVED	--	-3.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
17	0.000	--	--	--	--	--	REMOVED	--	-3.200	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
18	0.000	--	--	--	--	--	REMOVED	--	-3.400	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
19	0.000	--	--	--	--	--	REMOVED	--	-3.600	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
20	0.000	--	--	--	--	--	REMOVED	--	-3.800	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
21 D	0.000	3.7384E-04	0.000	0.000	40.00	46.98	ACTIVE	0.000	-4.000	0.000	
1.000	1.000	0.000	0.000	0.000	Ug5_2_8_L_0						
22 D	2.010	3.2206E-04	1.600	7.650	42.00	46.65	UL-RL	3.0850E+04	-4.200	2.400	
1.000	1.000	10.05	0.000	0.000	Ug5_2_8_L_0						
23 D	4.725	2.8092E-04	3.200	18.83	44.00	46.45	UL-RL	3.0850E+04	-4.400	4.800	
1.000	1.000	23.63	0.000	0.000	Ug5_2_8_L_0						
24 D	7.455	2.4902E-04	4.800	30.07	46.00	46.38	UL-RL	3.0850E+04	-4.600	7.200	
1.000	1.000	37.27	0.000	0.000	Ug5_2_8_L_0						
25 D	9.525	2.2509E-04	6.400	38.02	48.00	46.44	UL-RL	3.0850E+04	-4.800	9.600	
1.000	1.000	47.62	0.000	0.000	Ug5_2_8_L_0						
26 D	10.27	2.0805E-04	8.000	39.34	50.00	46.63	UL-RL	3.0850E+04	-5.000	12.00	
1.000	1.000	51.34	0.000	0.000	Ug5_2_8_L_0						
27 D	11.02	1.9686E-04	9.600	40.68	52.00	46.93	UL-RL	3.0850E+04	-5.200	14.40	
1.000	1.000	55.08	0.000	0.000	Ug5_2_8_L_0						
28 D	11.77	1.9055E-04	11.20	42.03	54.00	47.33	UL-RL	3.0850E+04	-5.400	16.80	
1.000	1.000	58.83	0.000	0.000	Ug5_2_8_L_0						
29 D	12.51	1.8823E-04	12.80	43.37	56.00	47.83	UL-RL	3.0850E+04	-5.600	19.20	
1.000	1.000	62.57	0.000	0.000	Ug5_2_8_L_0						
30 D	13.19	1.8907E-04	14.40	44.37	58.00	48.59	UL-RL	3.0850E+04	-5.800	21.60	
1.000	1.000	65.97	0.000	0.000	Ug5_2_8_L_0						
31 D	13.81	1.9234E-04	16.00	45.07	60.00	49.56	UL-RL	3.0850E+04	-6.000	24.00	
1.000	1.000	69.07	0.000	0.000	Ug5_2_8_L_0						
32 D	14.46	1.9737E-04	17.60	45.90	62.00	50.51	UL-RL	3.0850E+04	-6.200	26.40	
1.000	1.000	72.30	0.000	0.000	Ug5_2_8_L_0						
33 D	15.12	2.0358E-04	19.20	46.82	64.00	51.46	UL-RL	3.0850E+04	-6.400	28.80	



1.000	1.000	75.62	0.000	0.000	Ug5_2_8_L_0					
34 D	15.80	2.1048E-04	20.80	47.81	66.00	52.39	UL-RL	3.0850E+04	-6.600	31.20
1.000	1.000	79.01	0.000	0.000	Ug5_2_8_L_0					
35 D	16.49	2.1766E-04	22.40	48.86	68.00	53.31	UL-RL	3.0850E+04	-6.800	33.60
1.000	1.000	82.46	0.000	0.000	Ug5_2_8_L_0					
36 D	17.19	2.2476E-04	24.00	49.93	70.00	54.22	UL-RL	3.0850E+04	-7.000	36.00
1.000	1.000	85.93	0.000	0.000	Ug5_2_8_L_0					
37 D	17.88	2.3153E-04	25.60	51.00	72.00	55.12	UL-RL	3.0850E+04	-7.200	38.40
1.000	1.000	89.40	0.000	0.000	Ug5_2_8_L_0					
38 D	18.58	2.3775E-04	27.20	52.08	74.00	56.01	UL-RL	3.0850E+04	-7.400	40.80
1.000	1.000	92.88	0.000	0.000	Ug5_2_8_L_0					
39 D	19.27	2.4327E-04	28.80	53.13	76.00	56.89	UL-RL	3.0850E+04	-7.600	43.20
1.000	1.000	96.33	0.000	0.000	Ug5_2_8_L_0					
40 D	19.95	2.4799E-04	30.40	54.16	78.00	57.77	UL-RL	3.0850E+04	-7.800	45.60
1.000	1.000	99.76	0.000	0.000	Ug5_2_8_L_0					
41 D	20.63	2.5184E-04	32.00	55.16	80.00	58.64	UL-RL	3.0850E+04	-8.000	48.00
1.000	1.000	103.2	0.000	0.000	Ug5_2_8_L_0					
42 D	21.30	2.5480E-04	33.60	56.12	82.00	59.51	UL-RL	3.0850E+04	-8.200	50.40
1.000	1.000	106.5	0.000	0.000	Ug5_2_8_L_0					
43 D	21.97	2.5687E-04	35.20	57.05	84.00	60.37	UL-RL	3.0850E+04	-8.400	52.80
1.000	1.000	109.8	0.000	0.000	Ug5_2_8_L_0					
44 D	22.63	2.5808E-04	36.80	57.93	86.00	61.23	UL-RL	3.0850E+04	-8.600	55.20
1.000	1.000	113.1	0.000	0.000	Ug5_2_8_L_0					
45 D	23.28	2.5846E-04	38.40	58.78	88.00	62.09	UL-RL	3.0850E+04	-8.800	57.60
1.000	1.000	116.4	0.000	0.000	Ug5_2_8_L_0					
46 D	23.92	2.5808E-04	40.00	59.59	90.00	62.94	UL-RL	3.0850E+04	-9.000	60.00
1.000	1.000	119.6	0.000	0.000	Ug5_2_8_L_0					
47 D	24.55	2.5700E-04	41.60	60.36	92.00	63.79	UL-RL	3.0850E+04	-9.200	62.40
1.000	1.000	122.8	0.000	0.000	Ug5_2_8_L_0					
48 D	25.18	2.5530E-04	43.20	61.10	94.00	64.64	UL-RL	3.0850E+04	-9.400	64.80
1.000	1.000	125.9	0.000	0.000	Ug5_2_8_L_0					
49 D	25.80	2.5303E-04	44.80	61.81	96.00	65.48	UL-RL	3.0850E+04	-9.600	67.20
1.000	1.000	129.0	0.000	0.000	Ug5_2_8_L_0					
50 D	26.42	2.5029E-04	46.40	62.49	98.00	66.32	UL-RL	3.0850E+04	-9.800	69.60
1.000	1.000	132.1	0.000	0.000	Ug5_2_8_L_0					
51 D	27.03	2.4713E-04	48.00	63.15	100.00	67.17	UL-RL	3.0850E+04	-10.000	72.00
1.000	1.000	135.2	0.000	0.000	Ug5_2_8_L_0					
52 D	27.64	2.4363E-04	49.60	63.79	102.0	68.01	UL-RL	3.0850E+04	-10.200	74.40
1.000	1.000	138.2	0.000	0.000	Ug5_2_8_L_0					
53 D	28.24	2.3985E-04	51.20	64.42	104.0	68.85	UL-RL	3.0850E+04	-10.400	76.80
1.000	1.000	141.2	0.000	0.000	Ug5_2_8_L_0					
54 D	28.85	2.3585E-04	52.80	65.03	106.0	69.69	UL-RL	3.0850E+04	-10.600	79.20
1.000	1.000	144.2	0.000	0.000	Ug5_2_8_L_0					
55 D	29.45	2.3168E-04	54.40	65.63	108.0	70.52	UL-RL	3.0850E+04	-10.800	81.60
1.000	1.000	147.2	0.000	0.000	Ug5_2_8_L_0					
56 D	30.04	2.2738E-04	56.00	66.22	110.0	71.36	UL-RL	3.0850E+04	-11.000	84.00
1.000	1.000	150.2	0.000	0.000	Ug5_2_8_L_0					
57 D	30.64	2.2300E-04	57.60	66.80	112.0	72.20	UL-RL	3.0850E+04	-11.200	86.40
1.000	1.000	153.2	0.000	0.000	Ug5_2_8_L_0					
58 D	31.24	2.1856E-04	59.20	67.38	114.0	73.04	UL-RL	3.0850E+04	-11.400	88.80
1.000	1.000	156.2	0.000	0.000	Ug5_2_8_L_0					
59 D	31.83	2.1409E-04	60.80	67.96	116.0	73.88	UL-RL	3.0850E+04	-11.600	91.20
1.000	1.000	159.2	0.000	0.000	Ug5_2_8_L_0					
60 D	32.43	2.0960E-04	62.40	68.54	118.0	74.72	UL-RL	3.0850E+04	-11.800	93.60
1.000	1.000	162.1	0.000	0.000	Ug5_2_8_L_0					
61 D	16.51	2.0511E-04	64.00	69.11	120.0	75.56	UL-RL	3.0850E+04	-12.000	96.00
1.000	1.000	165.1	0.000	0.000	Ug5_2_8_L_0					



MIN UN=-100.8 IEQ= 41 NODE 21 DOF 1 Y-DISPL.F  
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 2 RNORM =0.3480E+05 RMNORM= 0.000  
RINORM=0.1086E+06 RIMNOR=0.1353E+06  
RENORM= 2.063 REMNOR=0.5726E-21 RATIO =0.4359E-02 TOLER =0.1000E-03 NOT CONVERGED  
RFMAX = 181.0 RMMAX = 86.94  
RTSMAL=0.1000E-02 RMSMAL=0.1000E-03  
RDT =0.1086E+06 RDR =0.1353E+06  
RATIOT=0.4359E-02 RATIOOR= 0.000  
MAX UN=0.8780 IEQ= 3 NODE 2 DOF 1 Y-DISPL.F  
MIN UN=-.1558E-09 IEQ= 29 NODE 15 DOF 1 Y-DISPL.F  
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 3 RNORM =0.3480E+05 RMNORM= 0.000  
RINORM=0.1086E+06 RIMNOR=0.1353E+06  
RENORM=0.7984 REMNOR=0.5169E-21 RATIO =0.2712E-02 TOLER =0.1000E-03 NOT CONVERGED  
RFMAX = 181.0 RMMAX = 86.94  
RTSMAL=0.1000E-02 RMSMAL=0.1000E-03  
RDT =0.1086E+06 RDR =0.1353E+06  
RATIOT=0.2712E-02 RATIOOR= 0.000  
MAX UN=0.7189 IEQ= 17 NODE 9 DOF 1 Y-DISPL.F  
MIN UN=-.1753E-09 IEQ= 15 NODE 8 DOF 1 Y-DISPL.F  
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 4 RNORM =0.3480E+05 RMNORM= 0.000  
RINORM=0.1086E+06 RIMNOR=0.1353E+06  
RENORM=0.7939E-01 REMNOR=0.4038E-21 RATIO =0.8552E-03 TOLER =0.1000E-03 NOT CONVERGED  
RFMAX = 181.0 RMMAX = 86.94  
RTSMAL=0.1000E-02 RMSMAL=0.1000E-03  
RDT =0.1086E+06 RDR =0.1353E+06  
RATIOT=0.8552E-03 RATIOOR= 0.000  
MAX UN=0.2814 IEQ= 23 NODE 12 DOF 1 Y-DISPL.F  
MIN UN=-.2037E-09 IEQ= 11 NODE 6 DOF 1 Y-DISPL.F  
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 5 RNORM =0.3480E+05 RMNORM= 0.000  
RINORM=0.1086E+06 RIMNOR=0.1353E+06  
RENORM=0.3157E-18 REMNOR=0.4981E-21 RATIO =0.1705E-11 TOLER =0.1000E-03 CONVERGED !  
RFMAX = 181.0 RMMAX = 86.94  
RTSMAL=0.1000E-02 RMSMAL=0.1000E-03  
RDT =0.1086E+06 RDR =0.1353E+06  
RATIOT=0.1705E-11 RATIOOR= 0.000  
MAX UN=0.2247E-09 IEQ= 11 NODE 6 DOF 1 Y-DISPL.F  
MIN UN=-.2468E-09 IEQ= 13 NODE 7 DOF 1 Y-DISPL.F  
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
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New Project
SOLUTION REACHED USING      5 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   6   ( AT TIME   6.000   )

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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	3.3972550E-03	-8.3297824E-04	
2	3.2306594E-03	-8.3297824E-04	
3	3.0640658E-03	-8.3294700E-04	
4	2.8974890E-03	-8.3278924E-04	
5	2.7309693E-03	-8.3234343E-04	
6	2.5645861E-03	-8.3137988E-04	
7	2.3984718E-03	-8.2959945E-04	
8	2.2328253E-03	-8.2663537E-04	
9	2.0679254E-03	-8.2205537E-04	
10	1.9041440E-03	-8.1536169E-04	
11	1.7419591E-03	-8.0599150E-04	
12	1.5819677E-03	-7.9331724E-04	
13	1.4248987E-03	-7.7664672E-04	
14	1.2716259E-03	-7.5522327E-04	
15	1.1231819E-03	-7.2821177E-04	
16	9.8077586E-04	-6.9467993E-04	
17	8.4581283E-04	-6.5359446E-04	
18	7.1991629E-04	-6.0382554E-04	
19	6.0494302E-04	-5.4415067E-04	
20	5.0300359E-04	-4.7326228E-04	
21	4.1647838E-04	-3.8977600E-04	
22	3.4714772E-04	-3.0547858E-04	
23	2.9355962E-04	-2.3209109E-04	
24	2.5368965E-04	-1.6802801E-04	
25	2.2583622E-04	-1.1164789E-04	
26	2.0863083E-04	-6.1262863E-05	
27	2.0082614E-04	-1.8452353E-05	
28	2.0063413E-04	1.5121191E-05	
29	2.0635392E-04	4.0884253E-05	
30	2.1654625E-04	6.0023550E-05	
31	2.2998362E-04	7.3467057E-05	
32	2.4560509E-04	8.1992044E-05	
33	2.6250188E-04	8.6339829E-05	
34	2.7990909E-04	8.7208675E-05	
35	2.9719656E-04	8.5245623E-05	
36	3.1385790E-04	8.1040870E-05	
37	3.2949873E-04	7.5124663E-05	
38	3.4382486E-04	6.7966080E-05	
39	3.5662958E-04	5.9973822E-05	
40	3.6778215E-04	5.1498050E-05	
41	3.7721621E-04	4.2833410E-05	
42	3.8491912E-04	3.4222778E-05	
43	3.9092195E-04	2.5861520E-05	
44	3.9529051E-04	1.7902050E-05	
45	3.9811715E-04	1.0458542E-05	
46	3.9951367E-04	3.6114426E-06	
47	3.9960492E-04	-2.5878039E-06	
48	3.9852351E-04	-8.1126262E-06	
49	3.9640521E-04	-1.2957315E-05	
50	3.9338518E-04	-1.7133381E-05	
51	3.8959475E-04	-2.0666381E-05	
52	3.8515894E-04	-2.3593010E-05	
53	3.8019511E-04	-2.5958335E-05	
54	3.7480978E-04	-2.7814580E-05	
55	3.6909944E-04	-2.9218391E-05	
56	3.6314857E-04	-3.0230044E-05	
57	3.5702938E-04	-3.0912239E-05	
58	3.5080135E-04	-3.1329313E-05	
59	3.4451097E-04	-3.1546676E-05	
60	3.3819159E-04	-3.1630448E-05	
61	3.3186294E-04	-3.1647237E-05	

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|                PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*                |
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|                NewProject.BaseDesignSection_28.A1M1R1_1757                                                                              |
|                Exe Time :24 May 2018      18:23:40                                                                              |
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New Project

STRESS RESULTS FOR GROUP NO. 1

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ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 61  
CURRENT TIME IS 6.0000

HARDENING 2D SOIL ELEMENT

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

EL * FACTOR	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
1 D	0.000	-3.3973E-03	0.000	0.000	0.000	0.000	ACTIVE	0.000	0.000	0.000	
1.000	1.000	0.000	0.000	0.000	Ug5_2_8_L_0						
2 D	0.4271	-3.2307E-03	2.658	0.6619	2.658	4.707	ACTIVE	0.000	-0.2000	1.474	
1.000	1.000	2.136	0.000	0.000	Ug5_2_8_L_0						
3 D	0.8756	-3.0641E-03	5.745	1.430	5.745	8.349	ACTIVE	0.000	-0.4000	2.947	
1.000	1.000	4.378	0.000	0.000	Ug5_2_8_L_0						
4 D	1.333	-2.8975E-03	9.008	2.243	9.008	11.12	ACTIVE	0.000	-0.6000	4.421	
1.000	1.000	6.664	0.000	0.000	Ug5_2_8_L_0						
5 D	1.808	-2.7310E-03	12.62	3.143	12.62	13.46	ACTIVE	0.000	-0.8000	5.895	
1.000	1.000	9.038	0.000	0.000	Ug5_2_8_L_0						
6 D	2.282	-2.5646E-03	16.23	4.042	16.23	15.59	ACTIVE	0.000	-1.0000	7.368	
1.000	1.000	11.41	0.000	0.000	Ug5_2_8_L_0						
7 D	2.732	-2.3985E-03	19.36	4.820	19.36	17.61	ACTIVE	0.000	-1.2000	8.842	
1.000	1.000	13.66	0.000	0.000	Ug5_2_8_L_0						
8 D	3.178	-2.2328E-03	22.38	5.572	22.38	19.55	ACTIVE	0.000	-1.4000	10.32	
1.000	1.000	15.89	0.000	0.000	Ug5_2_8_L_0						
9 D	3.628	-2.0679E-03	25.50	6.349	25.50	21.42	ACTIVE	0.000	-1.6000	11.79	
1.000	1.000	18.14	0.000	0.000	Ug5_2_8_L_0						
10 D	4.067	-1.9041E-03	28.41	7.073	28.41	23.24	ACTIVE	0.000	-1.8000	13.26	
1.000	1.000	20.34	0.000	0.000	Ug5_2_8_L_0						
11 D	4.513	-1.7420E-03	31.43	7.826	31.43	24.99	ACTIVE	0.000	-2.0000	14.74	
1.000	1.000	22.56	0.000	0.000	Ug5_2_8_L_0						
12 D	4.951	-1.5820E-03	34.31	8.543	34.31	26.69	ACTIVE	0.000	-2.2000	16.21	
1.000	1.000	24.75	0.000	0.000	Ug5_2_8_L_0						
13 D	5.394	-1.4249E-03	37.30	9.288	37.30	28.34	ACTIVE	0.000	-2.4000	17.68	
1.000	1.000	26.97	0.000	0.000	Ug5_2_8_L_0						
14 D	6.023	-1.2716E-03	40.18	10.96	40.18	29.93	UL-RL	4.9641E+04	-2.6000	19.16	
1.000	1.000	30.12	0.000	0.000	Ug5_2_8_L_0						
15 D	6.723	-1.1232E-03	43.16	12.99	43.16	31.47	UL-RL	4.9641E+04	-2.8000	20.63	
1.000	1.000	33.62	0.000	0.000	Ug5_2_8_L_0						
16 D	7.400	-9.8078E-04	46.06	14.90	46.06	32.96	UL-RL	4.9641E+04	-3.0000	22.11	
1.000	1.000	37.00	0.000	0.000	Ug5_2_8_L_0						
17 D	8.052	-8.4581E-04	49.04	16.68	49.04	34.40	UL-RL	4.9641E+04	-3.2000	23.58	
1.000	1.000	40.26	0.000	0.000	Ug5_2_8_L_0						
18 D	8.659	-7.1992E-04	51.95	18.24	51.95	35.80	UL-RL	4.9641E+04	-3.4000	25.05	
1.000	1.000	43.30	0.000	0.000	Ug5_2_8_L_0						
19 D	9.218	-6.0494E-04	54.87	19.56	54.87	37.15	UL-RL	4.9641E+04	-3.6000	26.53	
1.000	1.000	46.09	0.000	0.000	Ug5_2_8_L_0						
20 D	9.715	-5.0300E-04	57.87	20.58	57.87	38.46	UL-RL	4.9641E+04	-3.8000	28.00	
1.000	1.000	48.58	0.000	0.000	Ug5_2_8_L_0						
21 D	10.13	-4.1648E-04	60.79	21.16	60.79	39.73	UL-RL	4.9641E+04	-4.0000	29.47	
1.000	1.000	50.63	0.000	0.000	Ug5_2_8_L_0						
22 D	10.63	-3.4715E-04	63.79	22.20	63.79	40.97	UL-RL	4.9641E+04	-4.2000	30.95	
1.000	1.000	53.15	0.000	0.000	Ug5_2_8_L_0						
23 D	11.05	-2.9356E-04	66.72	22.81	66.72	42.17	UL-RL	4.9641E+04	-4.4000	32.42	
1.000	1.000	55.23	0.000	0.000	Ug5_2_8_L_0						
24 D	11.39	-2.5369E-04	69.71	23.08	69.71	43.34	UL-RL	4.9641E+04	-4.6000	33.89	
1.000	1.000	56.97	0.000	0.000	Ug5_2_8_L_0						
25 D	11.68	-2.2584E-04	72.64	23.04	72.64	44.48	UL-RL	4.9641E+04	-4.8000	35.37	
1.000	1.000	58.41	0.000	0.000	Ug5_2_8_L_0						
26 D	11.93	-2.0863E-04	75.57	22.79	75.57	45.60	UL-RL	4.9641E+04	-5.0000	36.84	
1.000	1.000	59.64	0.000	0.000	Ug5_2_8_L_0						
27 D	13.01	-2.0083E-04	78.30	26.72	78.30	46.69	UL-RL	4.9641E+04	-5.2000	38.32	
1.000	1.000	65.04	0.000	0.000	Ug5_2_8_L_0						
28 D	13.92	-2.0063E-04	81.03	29.82	81.03	47.76	UL-RL	4.9641E+04	-5.4000	39.79	
1.000	1.000	69.61	0.000	0.000	Ug5_2_8_L_0						
29 D	14.70	-2.0635E-04	83.77	32.22	83.77	48.81	UL-RL	4.9641E+04	-5.6000	41.26	
1.000	1.000	73.49	0.000	0.000	Ug5_2_8_L_0						
30 D	15.36	-2.1655E-04	86.52	34.06	86.52	49.85	UL-RL	4.9641E+04	-5.8000	42.74	
1.000	1.000	76.79	0.000	0.000	Ug5_2_8_L_0						
31 D	15.93	-2.2998E-04	89.26	35.43	89.26	50.86	UL-RL	4.9641E+04	-6.0000	44.21	
1.000	1.000	79.64	0.000	0.000	Ug5_2_8_L_0						
32 D	16.42	-2.4561E-04	92.01	36.44	92.01	51.86	UL-RL	4.9641E+04	-6.2000	45.68	
1.000	1.000	82.12	0.000	0.000	Ug5_2_8_L_0						
33 D	16.87	-2.6250E-04	94.76	37.17	94.76	52.85	UL-RL	4.9641E+04	-6.4000	47.16	

1.000	1.000	84.33	0.000	0.000	Ug5_2_8_L_0					
34 D	17.27	-2.7991E-04	97.75	37.71	97.75	53.82	UL-RL	4.9641E+04	-6.600	48.63
1.000	1.000	86.34	0.000	0.000	Ug5_2_8_L_0					
35 D	17.64	-2.9720E-04	100.6	38.12	100.6	54.79	UL-RL	4.9641E+04	-6.800	50.11
1.000	1.000	88.22	0.000	0.000	Ug5_2_8_L_0					
36 D	18.01	-3.1386E-04	104.1	38.46	104.1	55.74	UL-RL	4.9641E+04	-7.000	51.58
1.000	1.000	90.03	0.000	0.000	Ug5_2_8_L_0					
37 D	18.36	-3.2950E-04	106.9	38.77	106.9	56.68	UL-RL	4.9641E+04	-7.200	53.05
1.000	1.000	91.82	0.000	0.000	Ug5_2_8_L_0					
38 D	18.72	-3.4382E-04	110.3	39.09	110.3	57.62	UL-RL	4.9641E+04	-7.400	54.53
1.000	1.000	93.61	0.000	0.000	Ug5_2_8_L_0					
39 D	19.09	-3.5663E-04	113.2	39.45	113.2	58.55	UL-RL	4.9641E+04	-7.600	56.00
1.000	1.000	95.45	0.000	0.000	Ug5_2_8_L_0					
40 D	19.47	-3.6778E-04	116.5	39.88	116.5	59.47	UL-RL	4.9641E+04	-7.800	57.47
1.000	1.000	97.35	0.000	0.000	Ug5_2_8_L_0					
41 D	19.87	-3.7722E-04	119.8	40.38	119.8	60.38	UL-RL	4.9641E+04	-8.000	58.95
1.000	1.000	99.33	0.000	0.000	Ug5_2_8_L_0					
42 D	20.28	-3.8492E-04	122.6	40.98	122.6	61.29	UL-RL	4.9641E+04	-8.200	60.42
1.000	1.000	101.4	0.000	0.000	Ug5_2_8_L_0					
43 D	20.71	-3.9092E-04	125.8	41.67	125.8	62.20	UL-RL	4.9641E+04	-8.400	61.89
1.000	1.000	103.6	0.000	0.000	Ug5_2_8_L_0					
44 D	21.17	-3.9529E-04	128.6	42.46	128.6	63.10	UL-RL	4.9641E+04	-8.600	63.37
1.000	1.000	105.8	0.000	0.000	Ug5_2_8_L_0					
45 D	21.64	-3.9812E-04	131.8	43.35	131.8	64.00	UL-RL	4.9641E+04	-8.800	64.84
1.000	1.000	108.2	0.000	0.000	Ug5_2_8_L_0					
46 D	22.13	-3.9951E-04	134.5	44.34	134.5	64.90	UL-RL	4.9641E+04	-9.000	66.32
1.000	1.000	110.7	0.000	0.000	Ug5_2_8_L_0					
47 D	22.64	-3.9960E-04	137.7	45.41	137.7	65.79	UL-RL	4.9641E+04	-9.200	67.79
1.000	1.000	113.2	0.000	0.000	Ug5_2_8_L_0					
48 D	23.16	-3.9852E-04	140.4	46.56	140.4	66.68	UL-RL	4.9641E+04	-9.400	69.26
1.000	1.000	115.8	0.000	0.000	Ug5_2_8_L_0					
49 D	23.70	-3.9641E-04	143.6	47.79	143.6	67.57	UL-RL	4.9641E+04	-9.600	70.74
1.000	1.000	118.5	0.000	0.000	Ug5_2_8_L_0					
50 D	24.26	-3.9339E-04	146.3	49.08	146.3	68.45	UL-RL	4.9641E+04	-9.800	72.21
1.000	1.000	121.3	0.000	0.000	Ug5_2_8_L_0					
51 D	24.82	-3.8959E-04	149.4	50.43	149.4	69.34	UL-RL	4.9641E+04	-10.00	73.68
1.000	1.000	124.1	0.000	0.000	Ug5_2_8_L_0					
52 D	25.40	-3.8516E-04	152.1	51.83	152.1	70.22	UL-RL	4.9641E+04	-10.20	75.16
1.000	1.000	127.0	0.000	0.000	Ug5_2_8_L_0					
53 D	25.98	-3.8020E-04	155.2	53.27	155.2	71.11	UL-RL	4.9641E+04	-10.40	76.63
1.000	1.000	129.9	0.000	0.000	Ug5_2_8_L_0					
54 D	26.57	-3.7481E-04	158.2	54.74	158.2	71.99	UL-RL	4.9641E+04	-10.60	78.11
1.000	1.000	132.8	0.000	0.000	Ug5_2_8_L_0					
55 D	27.16	-3.6910E-04	160.9	56.24	160.9	72.87	UL-RL	4.9641E+04	-10.80	79.58
1.000	1.000	135.8	0.000	0.000	Ug5_2_8_L_0					
56 D	27.76	-3.6315E-04	164.0	57.75	164.0	73.75	UL-RL	4.9641E+04	-11.00	81.05
1.000	1.000	138.8	0.000	0.000	Ug5_2_8_L_0					
57 D	28.36	-3.5703E-04	166.6	59.28	166.6	74.64	UL-RL	4.9641E+04	-11.20	82.53
1.000	1.000	141.8	0.000	0.000	Ug5_2_8_L_0					
58 D	28.96	-3.5080E-04	169.6	60.82	169.6	75.52	UL-RL	4.9641E+04	-11.40	84.00
1.000	1.000	144.8	0.000	0.000	Ug5_2_8_L_0					
59 D	29.57	-3.4451E-04	172.3	62.37	172.3	76.40	UL-RL	4.9641E+04	-11.60	85.47
1.000	1.000	147.8	0.000	0.000	Ug5_2_8_L_0					
60 D	30.17	-3.3819E-04	175.3	63.92	175.3	77.28	UL-RL	4.9641E+04	-11.80	86.95
1.000	1.000	150.9	0.000	0.000	Ug5_2_8_L_0					
61 D	15.39	-3.3186E-04	178.0	65.46	178.0	78.16	UL-RL	4.9641E+04	-12.00	88.42
1.000	1.000	153.9	0.000	0.000	Ug5_2_8_L_0					

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION *Build date:Jul 11, 2017*          |
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NewProject.BaseDesignSection_28.A1M1R1_1757
Exe Time :24 May 2018      18:23:40

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New Project

STRESS RESULTS FOR GROUP NO. 2

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O_R          :
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 61
CURRENT TIME IS 6.0000

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HARDENING 2D SOIL ELEMENT

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

EL * FACTOR	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
1	0.000	--	--	--	--	--	REMOVED	--	0.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
2	0.000	--	--	--	--	--	REMOVED	--	-0.2000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
3	0.000	--	--	--	--	--	REMOVED	--	-0.4000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
4	0.000	--	--	--	--	--	REMOVED	--	-0.6000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
5	0.000	--	--	--	--	--	REMOVED	--	-0.8000	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	--	-1.200	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
8	0.000	--	--	--	--	--	REMOVED	--	-1.400	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
9	0.000	--	--	--	--	--	REMOVED	--	-1.600	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
10	0.000	--	--	--	--	--	REMOVED	--	-1.800	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
11	0.000	--	--	--	--	--	REMOVED	--	-2.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
12	0.000	--	--	--	--	--	REMOVED	--	-2.200	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
13	0.000	--	--	--	--	--	REMOVED	--	-2.400	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
14	0.000	--	--	--	--	--	REMOVED	--	-2.600	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
15	0.000	--	--	--	--	--	REMOVED	--	-2.800	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
16	0.000	--	--	--	--	--	REMOVED	--	-3.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
17	0.000	--	--	--	--	--	REMOVED	--	-3.200	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
18	0.000	--	--	--	--	--	REMOVED	--	-3.400	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
19	0.000	--	--	--	--	--	REMOVED	--	-3.600	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
20	0.000	--	--	--	--	--	REMOVED	--	-3.800	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
21	0.000	--	--	--	--	--	REMOVED	--	-4.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
22	0.000	--	--	--	--	--	REMOVED	--	-4.200	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
23	0.000	--	--	--	--	--	REMOVED	--	-4.400	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
24	0.000	--	--	--	--	--	REMOVED	--	-4.600	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
25	0.000	--	--	--	--	--	REMOVED	--	-4.800	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
26 D	0.000	2.0863E-04	0.000	0.000	50.00	46.63	PASSIVE	0.000	-5.000	0.000	
1.000	1.000	0.000	0.000	0.000	Ug5_2_8_L_0						
27 D	2.469	2.0083E-04	1.474	9.818	52.00	46.93	UL-RL	2.4680E+04	-5.200	2.526	
1.000	1.000	12.34	0.000	0.000	Ug5_2_8_L_0						
28 D	4.954	2.0063E-04	2.947	19.72	54.00	47.33	UL-RL	2.4680E+04	-5.400	5.053	
1.000	1.000	24.77	0.000	0.000	Ug5_2_8_L_0						
29 D	7.440	2.0635E-04	4.421	29.62	56.00	47.83	UL-RL	2.4680E+04	-5.600	7.579	
1.000	1.000	37.20	0.000	0.000	Ug5_2_8_L_0						
30 D	9.928	2.1655E-04	5.895	39.54	58.00	48.59	UL-RL	2.4680E+04	-5.800	10.11	
1.000	1.000	49.64	0.000	0.000	Ug5_2_8_L_0						
31 D	10.73	2.2998E-04	7.368	41.02	60.00	49.56	UL-RL	2.4680E+04	-6.000	12.63	
1.000	1.000	53.65	0.000	0.000	Ug5_2_8_L_0						
32 D	11.49	2.4561E-04	8.842	42.28	62.00	50.51	UL-RL	2.4680E+04	-6.200	15.16	
1.000	1.000	57.43	0.000	0.000	Ug5_2_8_L_0						
33 D	12.26	2.6250E-04	10.32	43.59	64.00	51.46	UL-RL	2.4680E+04	-6.400	17.68	

1.000	1.000	61.28	0.000	0.000	Ug5_2_8_L_0					
34 D	13.03	2.7991E-04	11.79	44.95	66.00	52.39	UL-RL	2.4680E+04	-6.600	20.21
1.000	1.000	65.16	0.000	0.000	Ug5_2_8_L_0					
35 D	13.81	2.9720E-04	13.26	46.32	68.00	53.31	UL-RL	2.4680E+04	-6.800	22.74
1.000	1.000	69.06	0.000	0.000	Ug5_2_8_L_0					
36 D	14.59	3.1386E-04	14.74	47.69	70.00	54.22	UL-RL	2.4680E+04	-7.000	25.26
1.000	1.000	72.95	0.000	0.000	Ug5_2_8_L_0					
37 D	15.37	3.2950E-04	16.21	49.04	72.00	55.12	UL-RL	2.4680E+04	-7.200	27.79
1.000	1.000	76.83	0.000	0.000	Ug5_2_8_L_0					
38 D	16.13	3.4382E-04	17.68	50.35	74.00	56.01	UL-RL	2.4680E+04	-7.400	30.32
1.000	1.000	80.67	0.000	0.000	Ug5_2_8_L_0					
39 D	16.89	3.5663E-04	19.16	51.62	76.00	56.89	UL-RL	2.4680E+04	-7.600	32.84
1.000	1.000	84.46	0.000	0.000	Ug5_2_8_L_0					
40 D	17.64	3.6778E-04	20.63	52.83	78.00	57.77	UL-RL	2.4680E+04	-7.800	35.37
1.000	1.000	88.20	0.000	0.000	Ug5_2_8_L_0					
41 D	18.38	3.7722E-04	22.11	53.98	80.00	58.64	UL-RL	2.4680E+04	-8.000	37.89
1.000	1.000	91.88	0.000	0.000	Ug5_2_8_L_0					
42 D	19.10	3.8492E-04	23.58	55.08	82.00	59.51	UL-RL	2.4680E+04	-8.200	40.42
1.000	1.000	95.50	0.000	0.000	Ug5_2_8_L_0					
43 D	19.81	3.9092E-04	25.05	56.10	84.00	60.37	UL-RL	2.4680E+04	-8.400	42.95
1.000	1.000	99.05	0.000	0.000	Ug5_2_8_L_0					
44 D	20.51	3.9529E-04	26.53	57.07	86.00	61.23	UL-RL	2.4680E+04	-8.600	45.47
1.000	1.000	102.5	0.000	0.000	Ug5_2_8_L_0					
45 D	21.20	3.9812E-04	28.00	57.98	88.00	62.09	UL-RL	2.4680E+04	-8.800	48.00
1.000	1.000	106.0	0.000	0.000	Ug5_2_8_L_0					
46 D	21.87	3.9951E-04	29.47	58.83	90.00	62.94	UL-RL	2.4680E+04	-9.000	50.53
1.000	1.000	109.4	0.000	0.000	Ug5_2_8_L_0					
47 D	22.54	3.9960E-04	30.95	59.63	92.00	63.79	UL-RL	2.4680E+04	-9.200	53.05
1.000	1.000	112.7	0.000	0.000	Ug5_2_8_L_0					
48 D	23.19	3.9852E-04	32.42	60.37	94.00	64.64	UL-RL	2.4680E+04	-9.400	55.58
1.000	1.000	116.0	0.000	0.000	Ug5_2_8_L_0					
49 D	23.84	3.9641E-04	33.89	61.08	96.00	65.48	UL-RL	2.4680E+04	-9.600	58.11
1.000	1.000	119.2	0.000	0.000	Ug5_2_8_L_0					
50 D	24.48	3.9339E-04	35.37	61.74	98.00	66.32	UL-RL	2.4680E+04	-9.800	60.63
1.000	1.000	122.4	0.000	0.000	Ug5_2_8_L_0					
51 D	25.11	3.8959E-04	36.84	62.38	100.00	67.17	UL-RL	2.4680E+04	-10.000	63.16
1.000	1.000	125.5	0.000	0.000	Ug5_2_8_L_0					
52 D	25.73	3.8516E-04	38.32	62.98	102.0	68.01	UL-RL	2.4680E+04	-10.200	65.68
1.000	1.000	128.7	0.000	0.000	Ug5_2_8_L_0					
53 D	26.35	3.8020E-04	39.79	63.56	104.0	68.85	UL-RL	2.4680E+04	-10.400	68.21
1.000	1.000	131.8	0.000	0.000	Ug5_2_8_L_0					
54 D	26.97	3.7481E-04	41.26	64.12	106.0	69.69	UL-RL	2.4680E+04	-10.600	70.74
1.000	1.000	134.9	0.000	0.000	Ug5_2_8_L_0					
55 D	27.59	3.6910E-04	42.74	64.66	108.0	70.52	UL-RL	2.4680E+04	-10.800	73.26
1.000	1.000	137.9	0.000	0.000	Ug5_2_8_L_0					
56 D	28.20	3.6315E-04	44.21	65.19	110.0	71.36	UL-RL	2.4680E+04	-11.000	75.79
1.000	1.000	141.0	0.000	0.000	Ug5_2_8_L_0					
57 D	28.81	3.5703E-04	45.68	65.72	112.0	72.20	UL-RL	2.4680E+04	-11.200	78.32
1.000	1.000	144.0	0.000	0.000	Ug5_2_8_L_0					
58 D	29.41	3.5080E-04	47.16	66.23	114.0	73.04	UL-RL	2.4680E+04	-11.400	80.84
1.000	1.000	147.1	0.000	0.000	Ug5_2_8_L_0					
59 D	30.02	3.4451E-04	48.63	66.74	116.0	73.88	UL-RL	2.4680E+04	-11.600	83.37
1.000	1.000	150.1	0.000	0.000	Ug5_2_8_L_0					
60 D	30.63	3.3819E-04	50.11	67.25	118.0	74.72	UL-RL	2.4680E+04	-11.800	85.89
1.000	1.000	153.1	0.000	0.000	Ug5_2_8_L_0					
61 D	15.62	3.3186E-04	51.58	67.76	120.0	75.56	UL-RL	2.4680E+04	-12.000	88.42
1.000	1.000	156.2	0.000	0.000	Ug5_2_8_L_0					





MIN UN=-322.3 IEQ= 49 NODE 25 DOF 1 Y-DISPL.F  
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 2 RNORM =0.1618E+06 RMNORM= 0.000  
RINORM=0.1666E+06 RIMNOR=0.1883E+06  
RENORM= 491.0 REMNOR=0.3064E-20 RATIO =0.5428E-01 TOLER =0.1000E-03 NOT CONVERGED  
RFMAX = 322.0 RMMAX = 123.2  
RTSMAL=0.1000E-02 RMSMAL=0.1000E-02  
RDT =0.1666E+06 RDR =0.1883E+06  
RATIOT=0.5428E-01 RATIO= 0.000  
MAX UN= 3.373 IEQ= 3 NODE 2 DOF 1 Y-DISPL.F  
MIN UN=-9.116 IEQ= 63 NODE 32 DOF 1 Y-DISPL.F  
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 3 RNORM =0.1618E+06 RMNORM= 0.000  
RINORM=0.1666E+06 RIMNOR=0.1883E+06  
RENORM= 16.45 REMNOR=0.3671E-20 RATIO =0.9935E-02 TOLER =0.1000E-03 NOT CONVERGED  
RFMAX = 322.0 RMMAX = 123.2  
RTSMAL=0.1000E-02 RMSMAL=0.1000E-02  
RDT =0.1666E+06 RDR =0.1883E+06  
RATIOT=0.9935E-02 RATIO= 0.000  
MAX UN= 2.071 IEQ= 19 NODE 10 DOF 1 Y-DISPL.F  
MIN UN=-2.448 IEQ= 67 NODE 34 DOF 1 Y-DISPL.F  
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 4 RNORM =0.1618E+06 RMNORM= 0.000  
RINORM=0.1666E+06 RIMNOR=0.1883E+06  
RENORM=0.1819 REMNOR=0.1435E-20 RATIO =0.1045E-02 TOLER =0.1000E-03 NOT CONVERGED  
RFMAX = 322.0 RMMAX = 123.2  
RTSMAL=0.1000E-02 RMSMAL=0.1000E-02  
RDT =0.1666E+06 RDR =0.1883E+06  
RATIOT=0.1045E-02 RATIO= 0.000  
MAX UN=0.4245E-09 IEQ= 3 NODE 2 DOF 1 Y-DISPL.F  
MIN UN=-.2562 IEQ= 29 NODE 15 DOF 1 Y-DISPL.F  
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 5 RNORM =0.1618E+06 RMNORM= 0.000  
RINORM=0.1666E+06 RIMNOR=0.1883E+06  
RENORM=0.1299 REMNOR=0.3183E-20 RATIO =0.8830E-03 TOLER =0.1000E-03 NOT CONVERGED  
RFMAX = 322.0 RMMAX = 123.2  
RTSMAL=0.1000E-02 RMSMAL=0.1000E-02  
RDT =0.1666E+06 RDR =0.1883E+06  
RATIOT=0.8830E-03 RATIO= 0.000  
MAX UN=0.1281 IEQ= 3 NODE 2 DOF 1 Y-DISPL.F  
MIN UN=-.1926E-01 IEQ= 41 NODE 21 DOF 1 Y-DISPL.F  
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 6 RNORM =0.1618E+06 RMNORM= 0.000  
RINORM=0.1666E+06 RIMNOR=0.1883E+06  
RENORM=0.9768E-04 REMNOR=0.2342E-20 RATIO =0.2421E-04 TOLER =0.1000E-03 CONVERGED !  
RFMAX = 322.0 RMMAX = 123.2  
RTSMAL=0.1000E-02 RMSMAL=0.1000E-02  
RDT =0.1666E+06 RDR =0.1883E+06  
RATIOT=0.2421E-04 RATIO= 0.000  
MAX UN=0.2061E-09 IEQ= 5 NODE 3 DOF 1 Y-DISPL.F  
MIN UN=-.7227E-02 IEQ= 41 NODE 21 DOF 1 Y-DISPL.F  
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

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|                PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
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New Project
SOLUTION REACHED USING      6 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   7   ( AT TIME   7.000   )

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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	5.2641029E-03	-1.6795637E-03	
2	4.9281901E-03	-1.6795637E-03	
3	4.5922794E-03	-1.6795335E-03	
4	4.2563849E-03	-1.6793809E-03	
5	3.9205456E-03	-1.6789502E-03	
6	3.5848381E-03	-1.6780202E-03	
7	3.2493900E-03	-1.6763024E-03	
8	2.9143932E-03	-1.6734437E-03	
9	2.5801163E-03	-1.6690277E-03	
10	2.2469178E-03	-1.6625753E-03	
11	1.9152581E-03	-1.6535448E-03	
12	1.5857120E-03	-1.6413325E-03	
13	1.2589816E-03	-1.6252721E-03	
14	9.3591513E-04	-1.6045326E-03	
15	6.1755474E-04	-1.5780009E-03	
16	3.0519185E-04	-1.5443129E-03	
17	4.0840564E-07	-1.5019196E-03	
18	-2.9488319E-04	-1.4491114E-03	
19	-5.7841727E-04	-1.3840199E-03	
20	-8.4753745E-04	-1.3046227E-03	
21	-1.0991666E-03	-1.2087475E-03	
22	-1.3297821E-03	-1.0940767E-03	
23	-1.5353805E-03	-9.5815458E-04	
24	-1.7114545E-03	-7.9839017E-04	
25	-1.8529660E-03	-6.1206734E-04	
26	-1.9558923E-03	-4.1990816E-04	
27	-2.0219147E-03	-2.4253500E-04	
28	-2.0536890E-03	-7.6907376E-05	
29	-2.0532506E-03	8.0125636E-05	
30	-2.0219953E-03	2.3181053E-04	
31	-1.9606614E-03	3.8147129E-04	
32	-1.8704917E-03	5.1486525E-04	
33	-1.7567494E-03	6.1775405E-04	
34	-1.6252016E-03	6.9346997E-04	
35	-1.4809551E-03	7.4528074E-04	
36	-1.3284700E-03	7.7638098E-04	
37	-1.1715833E-03	7.8978417E-04	
38	-1.0135523E-03	7.8825942E-04	
39	-8.5710368E-04	7.7437202E-04	
40	-7.0447018E-04	7.5048494E-04	
41	-5.5743207E-04	7.1876239E-04	
42	-4.1735616E-04	6.8117572E-04	
43	-2.8523366E-04	6.3951095E-04	
44	-1.6171636E-04	5.9537751E-04	
45	-4.7151614E-05	5.5021815E-04	
46	5.8387605E-05	5.0531813E-04	
47	1.5506676E-04	4.6178488E-04	
48	2.4325283E-04	4.2052071E-04	
49	3.2347342E-04	3.8223230E-04	
50	3.9637896E-04	3.4744752E-04	
51	4.6270989E-04	3.1653023E-04	
52	5.2326466E-04	2.8969465E-04	
53	5.7886400E-04	2.6702081E-04	
54	6.3034418E-04	2.4845713E-04	
55	6.7850990E-04	2.3383918E-04	
56	7.2412455E-04	2.2289170E-04	
57	7.6788602E-04	2.1523579E-04	
58	8.1040643E-04	2.1039333E-04	
59	8.5219264E-04	2.0779017E-04	
60	8.9362724E-04	2.0675817E-04	
61	9.3495260E-04	2.0654560E-04	

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*          |
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New Project

STRESS RESULTS FOR GROUP NO. 1

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ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 61  
CURRENT TIME IS 7.0000

HARDENING 2D SOIL ELEMENT

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

EL * FACTOR	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
1 D	0.000	-5.2641E-03	0.000	0.000	0.000	0.000	ACTIVE	0.000	0.000	0.000	
1.000	1.000	0.000	0.000	0.000	Ug5_2_8_L_0						
2 D	0.4138	-4.9282E-03	2.798	0.7355	2.798	4.707	UL-RL	4.1367E+04	-0.2000	1.333	
1.000	1.000	2.069	0.000	0.000	Ug5_2_8_L_0						
3 D	0.8448	-4.5923E-03	6.025	1.557	6.025	8.349	UL-RL	4.1367E+04	-0.4000	2.667	
1.000	1.000	4.224	0.000	0.000	Ug5_2_8_L_0						
4 D	1.285	-4.2564E-03	9.429	2.423	9.429	11.12	UL-RL	4.1367E+04	-0.6000	4.000	
1.000	1.000	6.423	0.000	0.000	Ug5_2_8_L_0						
5 D	1.742	-3.9205E-03	13.18	3.376	13.18	13.46	UL-RL	4.1367E+04	-0.8000	5.333	
1.000	1.000	8.709	0.000	0.000	Ug5_2_8_L_0						
6 D	2.199	-3.5848E-03	16.94	4.328	16.94	15.59	UL-RL	4.1367E+04	-1.000	6.667	
1.000	1.000	10.99	0.000	0.000	Ug5_2_8_L_0						
7 D	2.632	-3.2494E-03	20.20	5.159	20.20	17.61	UL-RL	4.1367E+04	-1.200	8.000	
1.000	1.000	13.16	0.000	0.000	Ug5_2_8_L_0						
8 D	3.059	-2.9144E-03	23.36	5.963	23.36	19.55	UL-RL	4.1367E+04	-1.400	9.333	
1.000	1.000	15.30	0.000	0.000	Ug5_2_8_L_0						
9 D	3.492	-2.5801E-03	26.62	6.793	26.62	21.42	UL-RL	4.1367E+04	-1.600	10.67	
1.000	1.000	17.46	0.000	0.000	Ug5_2_8_L_0						
10 D	3.914	-2.2469E-03	29.67	7.569	29.67	23.24	UL-RL	4.1367E+04	-1.800	12.00	
1.000	1.000	19.57	0.000	0.000	Ug5_2_8_L_0						
11 D	4.341	-1.9153E-03	32.83	8.373	32.83	24.99	UL-RL	4.1367E+04	-2.000	13.33	
1.000	1.000	21.71	0.000	0.000	Ug5_2_8_L_0						
12 D	4.765	-1.5857E-03	35.85	9.160	35.85	26.69	UL-RL	4.1367E+04	-2.200	14.67	
1.000	1.000	23.83	0.000	0.000	Ug5_2_8_L_0						
13 D	6.599	-1.2590E-03	38.98	16.99	38.98	28.34	UL-RL	4.1367E+04	-2.400	16.00	
1.000	1.000	32.99	0.000	0.000	Ug5_2_8_L_0						
14 D	8.618	-9.3592E-04	42.01	25.76	42.01	29.93	UL-RL	4.1367E+04	-2.600	17.33	
1.000	1.000	43.09	0.000	0.000	Ug5_2_8_L_0						
15 D	10.03	-6.1755E-04	45.13	31.49	45.13	33.17	UL-RL	4.1367E+04	-2.800	18.67	
1.000	1.000	50.16	0.000	0.000	Ug5_2_8_L_0						
16 D	11.14	-3.0519E-04	48.16	35.71	48.16	37.05	UL-RL	4.1367E+04	-3.000	20.00	
1.000	1.000	55.71	0.000	0.000	Ug5_2_8_L_0						
17 D	12.24	-4.0841E-07	51.29	39.85	51.29	40.87	UL-RL	4.1367E+04	-3.200	21.33	
1.000	1.000	61.18	0.000	0.000	Ug5_2_8_L_0						
18 D	13.30	2.9488E-04	54.34	43.86	54.34	44.58	UL-RL	4.1367E+04	-3.400	22.67	
1.000	1.000	66.52	0.000	0.000	Ug5_2_8_L_0						
19 D	14.35	5.7842E-04	57.40	47.74	57.40	48.17	UL-RL	4.1367E+04	-3.600	24.00	
1.000	1.000	71.74	0.000	0.000	Ug5_2_8_L_0						
20 D	15.36	8.4754E-04	60.53	51.46	60.53	51.62	UL-RL	4.1367E+04	-3.800	25.33	
1.000	1.000	76.79	0.000	0.000	Ug5_2_8_L_0						
21 D	16.31	1.0992E-03	63.60	54.87	63.60	54.93	UL-RL	4.1367E+04	-4.000	26.67	
1.000	1.000	81.54	0.000	0.000	Ug5_2_8_L_0						
22 D	17.26	1.3298E-03	66.73	58.30	66.73	58.34	UL-RL	4.1367E+04	-4.200	28.00	
1.000	1.000	86.30	0.000	0.000	Ug5_2_8_L_0						
23 D	18.15	1.5354E-03	69.81	61.43	69.81	61.46	UL-RL	4.1367E+04	-4.400	29.33	
1.000	1.000	90.77	0.000	0.000	Ug5_2_8_L_0						
24 D	18.98	1.7115E-03	72.94	64.21	72.94	64.23	UL-RL	4.1367E+04	-4.600	30.67	
1.000	1.000	94.88	0.000	0.000	Ug5_2_8_L_0						
25 D	19.71	1.8530E-03	76.01	66.56	76.01	66.56	UL-RL	4.1367E+04	-4.800	32.00	
1.000	1.000	98.56	0.000	0.000	Ug5_2_8_L_0						
26 D	20.35	1.9559E-03	79.08	68.43	79.08	68.43	V-C	1.3789E+04	-5.000	33.33	
1.000	1.000	101.8	0.000	0.000	Ug5_2_8_L_0						
27 D	21.19	2.0219E-03	81.95	71.29	81.95	71.29	V-C	1.3789E+04	-5.200	34.67	
1.000	1.000	106.0	0.000	0.000	Ug5_2_8_L_0						
28 D	21.90	2.0537E-03	84.82	73.50	84.82	73.50	V-C	1.3789E+04	-5.400	36.00	
1.000	1.000	109.5	0.000	0.000	Ug5_2_8_L_0						
29 D	22.49	2.0533E-03	87.70	75.10	87.70	75.10	V-C	1.3789E+04	-5.600	37.33	
1.000	1.000	112.4	0.000	0.000	Ug5_2_8_L_0						
30 D	22.96	2.0220E-03	90.59	76.13	90.59	76.13	V-C	1.3789E+04	-5.800	38.67	
1.000	1.000	114.8	0.000	0.000	Ug5_2_8_L_0						
31 D	23.33	1.9607E-03	93.47	76.63	93.47	76.63	V-C	1.3789E+04	-6.000	40.00	
1.000	1.000	116.6	0.000	0.000	Ug5_2_8_L_0						
32 D	23.59	1.8705E-03	96.36	76.62	96.36	76.62	V-C	1.3789E+04	-6.200	41.33	
1.000	1.000	118.0	0.000	0.000	Ug5_2_8_L_0						
33 D	23.78	1.7567E-03	99.25	76.21	99.25	76.21	V-C	1.3789E+04	-6.400	42.67	

1.000	1.000	118.9	0.000	0.000	Ug5_2_8_L_0					
34 D	23.90	1.6252E-03	102.4	75.49	102.4	75.49	V-C	1.3789E+04	-6.600	44.00
1.000	1.000	119.5	0.000	0.000	Ug5_2_8_L_0					
35 D	23.98	1.4810E-03	105.4	74.54	105.4	74.54	V-C	1.3789E+04	-6.800	45.33
1.000	1.000	119.9	0.000	0.000	Ug5_2_8_L_0					
36 D	24.02	1.3285E-03	109.0	73.44	109.0	73.44	V-C	1.3789E+04	-7.000	46.67
1.000	1.000	120.1	0.000	0.000	Ug5_2_8_L_0					
37 D	24.05	1.1716E-03	112.0	72.25	112.0	72.25	V-C	1.3789E+04	-7.200	48.00
1.000	1.000	120.3	0.000	0.000	Ug5_2_8_L_0					
38 D	24.07	1.0136E-03	115.5	71.02	115.5	71.02	V-C	1.3789E+04	-7.400	49.33
1.000	1.000	120.4	0.000	0.000	Ug5_2_8_L_0					
39 D	24.09	8.5710E-04	118.5	69.81	118.5	69.81	V-C	1.3789E+04	-7.600	50.67
1.000	1.000	120.5	0.000	0.000	Ug5_2_8_L_0					
40 D	24.13	7.0447E-04	122.0	68.63	122.0	68.63	V-C	1.3789E+04	-7.800	52.00
1.000	1.000	120.6	0.000	0.000	Ug5_2_8_L_0					
41 D	24.17	5.5743E-04	125.4	67.54	125.4	67.54	V-C	1.3789E+04	-8.000	53.33
1.000	1.000	120.9	0.000	0.000	Ug5_2_8_L_0					
42 D	24.24	4.1736E-04	128.3	66.54	128.3	66.54	V-C	1.3789E+04	-8.200	54.67
1.000	1.000	121.2	0.000	0.000	Ug5_2_8_L_0					
43 D	24.33	2.8523E-04	131.7	65.66	131.7	65.66	V-C	1.3789E+04	-8.400	56.00
1.000	1.000	121.7	0.000	0.000	Ug5_2_8_L_0					
44 D	24.45	1.6172E-04	134.6	64.91	134.6	64.91	V-C	1.3789E+04	-8.600	57.33
1.000	1.000	122.2	0.000	0.000	Ug5_2_8_L_0					
45 D	24.59	4.7152E-05	138.0	64.29	138.0	64.29	V-C	1.3789E+04	-8.800	58.67
1.000	1.000	123.0	0.000	0.000	Ug5_2_8_L_0					
46 D	24.32	-5.8388E-05	140.8	61.61	140.8	64.90	UL-RL	4.1367E+04	-9.000	60.00
1.000	1.000	121.6	0.000	0.000	Ug5_2_8_L_0					
47 D	24.02	-1.5507E-04	144.2	58.75	144.2	65.79	UL-RL	4.1367E+04	-9.200	61.33
1.000	1.000	120.1	0.000	0.000	Ug5_2_8_L_0					
48 D	23.79	-2.4325E-04	147.0	56.28	147.0	66.68	UL-RL	4.1367E+04	-9.400	62.67
1.000	1.000	118.9	0.000	0.000	Ug5_2_8_L_0					
49 D	23.63	-3.2347E-04	150.3	54.17	150.3	67.57	UL-RL	4.1367E+04	-9.600	64.00
1.000	1.000	118.2	0.000	0.000	Ug5_2_8_L_0					
50 D	23.55	-3.9638E-04	153.2	52.40	153.2	68.45	UL-RL	4.1367E+04	-9.800	65.33
1.000	1.000	117.7	0.000	0.000	Ug5_2_8_L_0					
51 D	23.52	-4.6271E-04	156.4	50.91	156.4	69.34	UL-RL	4.1367E+04	-10.00	66.67
1.000	1.000	117.6	0.000	0.000	Ug5_2_8_L_0					
52 D	23.54	-5.2326E-04	159.2	49.69	159.2	70.22	UL-RL	4.1367E+04	-10.20	68.00
1.000	1.000	117.7	0.000	0.000	Ug5_2_8_L_0					
53 D	23.61	-5.7886E-04	162.5	48.70	162.5	71.11	UL-RL	4.1367E+04	-10.40	69.33
1.000	1.000	118.0	0.000	0.000	Ug5_2_8_L_0					
54 D	23.71	-6.3034E-04	165.7	47.89	165.7	71.99	UL-RL	4.1367E+04	-10.60	70.67
1.000	1.000	118.6	0.000	0.000	Ug5_2_8_L_0					
55 D	23.85	-6.7851E-04	168.5	47.23	168.5	72.87	UL-RL	4.1367E+04	-10.80	72.00
1.000	1.000	119.2	0.000	0.000	Ug5_2_8_L_0					
56 D	24.00	-7.2412E-04	171.7	46.68	171.7	73.75	UL-RL	4.1367E+04	-11.00	73.33
1.000	1.000	120.0	0.000	0.000	Ug5_2_8_L_0					
57 D	24.18	-7.6789E-04	174.5	46.22	174.5	74.64	UL-RL	4.1367E+04	-11.20	74.67
1.000	1.000	120.9	0.000	0.000	Ug5_2_8_L_0					
58 D	24.36	-8.1041E-04	177.6	45.81	177.6	75.52	UL-RL	4.1367E+04	-11.40	76.00
1.000	1.000	121.8	0.000	0.000	Ug5_2_8_L_0					
59 D	24.55	-8.5219E-04	180.4	45.44	180.4	76.40	UL-RL	4.1367E+04	-11.60	77.33
1.000	1.000	122.8	0.000	0.000	Ug5_2_8_L_0					
60 D	24.88	-8.9363E-04	183.6	45.71	183.6	77.28	ACTIVE	0.000	-11.80	78.67
1.000	1.000	124.4	0.000	0.000	Ug5_2_8_L_0					
61 D	12.64	-9.3495E-04	186.4	46.41	186.4	78.16	ACTIVE	0.000	-12.00	80.00
1.000	1.000	126.4	0.000	0.000	Ug5_2_8_L_0					

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|                                                                                               |
|          NewProject.BaseDesignSection_28.A1M1R1_1757  |
|          Exe Time :24 May 2018      18:23:40  |
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New Project

STRESS RESULTS FOR GROUP NO. 2

0\_R  
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 61  
CURRENT TIME IS 7.0000

HARDENING 2D SOIL ELEMENT

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

EL * FACTOR	FORCE UFACOR	DISPL-Y Peq	VERTICAL-P Su_a	HORIZON.-P Su_p	MAX-V-P LAYER	MAX-H-P	STATE	STIFFNESS	Z-LEVEL	PORE	E
1	0.000	--	--	--	--	--	REMOVED	--	0.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
2	0.000	--	--	--	--	--	REMOVED	--	-0.2000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
3	0.000	--	--	--	--	--	REMOVED	--	-0.4000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
4	0.000	--	--	--	--	--	REMOVED	--	-0.6000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
5	0.000	--	--	--	--	--	REMOVED	--	-0.8000	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	--	-1.200	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
8	0.000	--	--	--	--	--	REMOVED	--	-1.400	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
9	0.000	--	--	--	--	--	REMOVED	--	-1.600	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
10	0.000	--	--	--	--	--	REMOVED	--	-1.800	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
11	0.000	--	--	--	--	--	REMOVED	--	-2.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
12	0.000	--	--	--	--	--	REMOVED	--	-2.200	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
13	0.000	--	--	--	--	--	REMOVED	--	-2.400	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
14	0.000	--	--	--	--	--	REMOVED	--	-2.600	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
15	0.000	--	--	--	--	--	REMOVED	--	-2.800	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
16	0.000	--	--	--	--	--	REMOVED	--	-3.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
17	0.000	--	--	--	--	--	REMOVED	--	-3.200	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
18	0.000	--	--	--	--	--	REMOVED	--	-3.400	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
19	0.000	--	--	--	--	--	REMOVED	--	-3.600	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
20	0.000	--	--	--	--	--	REMOVED	--	-3.800	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
21	0.000	--	--	--	--	--	REMOVED	--	-4.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
22	0.000	--	--	--	--	--	REMOVED	--	-4.200	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
23	0.000	--	--	--	--	--	REMOVED	--	-4.400	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
24	0.000	--	--	--	--	--	REMOVED	--	-4.600	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
25	0.000	--	--	--	--	--	REMOVED	--	-4.800	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
26	0.000	--	--	--	--	--	REMOVED	--	-5.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
27	0.000	--	--	--	--	--	REMOVED	--	-5.200	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
28	0.000	--	--	--	--	--	REMOVED	--	-5.400	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
29	0.000	--	--	--	--	--	REMOVED	--	-5.600	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
30	0.000	--	--	--	--	--	REMOVED	--	-5.800	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
31	0.000	--	--	--	--	--	REMOVED	--	-6.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
32 D	0.5997	-1.8705E-03	1.333	0.3320	62.00	50.51	ACTIVE	0.000	-6.200	2.667	
1.000	1.000	2.999	0.000	0.000	Ug5_2_8_L_0						
33 D	1.199	-1.7567E-03	2.667	0.6640	64.00	51.46	ACTIVE	0.000	-6.400	5.333	

1.000	1.000	5.997	0.000	0.000	Ug5_2_8_L_0						
34 D	1.799	-1.6252E-03	4.000	0.9960	66.00	52.39	ACTIVE	0.000	-6.600	8.000	
1.000	1.000	8.996	0.000	0.000	Ug5_2_8_L_0						
35 D	2.399	-1.4810E-03	5.333	1.328	68.00	53.31	ACTIVE	0.000	-6.800	10.67	
1.000	1.000	11.99	0.000	0.000	Ug5_2_8_L_0						
36 D	4.398	-1.3285E-03	6.667	8.656	70.00	54.22	UL-RL	2.0566E+04	-7.000	13.33	
1.000	1.000	21.99	0.000	0.000	Ug5_2_8_L_0						
37 D	5.817	-1.1716E-03	8.000	13.08	72.00	55.12	UL-RL	2.0566E+04	-7.200	16.00	
1.000	1.000	29.08	0.000	0.000	Ug5_2_8_L_0						
38 D	7.231	-1.0136E-03	9.333	17.49	74.00	56.01	UL-RL	2.0566E+04	-7.400	18.67	
1.000	1.000	36.15	0.000	0.000	Ug5_2_8_L_0						
39 D	8.629	-8.5710E-04	10.67	21.81	76.00	56.89	UL-RL	2.0566E+04	-7.600	21.33	
1.000	1.000	43.15	0.000	0.000	Ug5_2_8_L_0						
40 D	10.00	-7.0447E-04	12.00	26.02	78.00	57.77	UL-RL	2.0566E+04	-7.800	24.00	
1.000	1.000	50.02	0.000	0.000	Ug5_2_8_L_0						
41 D	11.35	-5.5743E-04	13.33	30.06	80.00	58.64	UL-RL	2.0566E+04	-8.000	26.67	
1.000	1.000	56.73	0.000	0.000	Ug5_2_8_L_0						
42 D	12.65	-4.1736E-04	14.67	33.93	82.00	59.51	UL-RL	2.0566E+04	-8.200	29.33	
1.000	1.000	63.26	0.000	0.000	Ug5_2_8_L_0						
43 D	13.92	-2.8523E-04	16.00	37.59	84.00	60.37	UL-RL	2.0566E+04	-8.400	32.00	
1.000	1.000	69.59	0.000	0.000	Ug5_2_8_L_0						
44 D	15.14	-1.6172E-04	17.33	41.04	86.00	61.23	UL-RL	2.0566E+04	-8.600	34.67	
1.000	1.000	75.71	0.000	0.000	Ug5_2_8_L_0						
45 D	16.32	-4.7152E-05	18.67	44.27	88.00	62.09	UL-RL	2.0566E+04	-8.800	37.33	
1.000	1.000	81.60	0.000	0.000	Ug5_2_8_L_0						
46 D	17.45	5.8388E-05	20.00	47.27	90.00	62.94	UL-RL	2.0566E+04	-9.000	40.00	
1.000	1.000	87.27	0.000	0.000	Ug5_2_8_L_0						
47 D	18.55	1.5507E-04	21.33	50.07	92.00	63.79	UL-RL	2.0566E+04	-9.200	42.67	
1.000	1.000	92.73	0.000	0.000	Ug5_2_8_L_0						
48 D	19.60	2.4325E-04	22.67	52.66	94.00	64.64	UL-RL	2.0566E+04	-9.400	45.33	
1.000	1.000	97.99	0.000	0.000	Ug5_2_8_L_0						
49 D	20.61	3.2347E-04	24.00	55.06	96.00	65.48	UL-RL	2.0566E+04	-9.600	48.00	
1.000	1.000	103.1	0.000	0.000	Ug5_2_8_L_0						
50 D	21.59	3.9638E-04	25.33	57.28	98.00	66.32	UL-RL	2.0566E+04	-9.800	50.67	
1.000	1.000	107.9	0.000	0.000	Ug5_2_8_L_0						
51 D	22.54	4.6271E-04	26.67	59.35	100.00	67.17	UL-RL	2.0566E+04	-10.000	53.33	
1.000	1.000	112.7	0.000	0.000	Ug5_2_8_L_0						
52 D	23.46	5.2326E-04	28.00	61.28	102.0	68.01	UL-RL	2.0566E+04	-10.200	56.00	
1.000	1.000	117.3	0.000	0.000	Ug5_2_8_L_0						
53 D	24.35	5.7886E-04	29.33	63.10	104.0	68.85	UL-RL	2.0566E+04	-10.400	58.67	
1.000	1.000	121.8	0.000	0.000	Ug5_2_8_L_0						
54 D	25.23	6.3034E-04	30.67	64.81	106.0	69.69	UL-RL	2.0566E+04	-10.600	61.33	
1.000	1.000	126.1	0.000	0.000	Ug5_2_8_L_0						
55 D	26.09	6.7851E-04	32.00	66.45	108.0	70.52	UL-RL	2.0566E+04	-10.800	64.00	
1.000	1.000	130.5	0.000	0.000	Ug5_2_8_L_0						
56 D	26.94	7.2412E-04	33.33	68.03	110.0	71.36	UL-RL	2.0566E+04	-11.000	66.67	
1.000	1.000	134.7	0.000	0.000	Ug5_2_8_L_0						
57 D	27.78	7.6789E-04	34.67	69.56	112.0	72.20	UL-RL	2.0566E+04	-11.200	69.33	
1.000	1.000	138.9	0.000	0.000	Ug5_2_8_L_0						
58 D	28.61	8.1041E-04	36.00	71.05	114.0	73.04	UL-RL	2.0566E+04	-11.400	72.00	
1.000	1.000	143.1	0.000	0.000	Ug5_2_8_L_0						
59 D	29.44	8.5219E-04	37.33	72.53	116.0	73.88	UL-RL	2.0566E+04	-11.600	74.67	
1.000	1.000	147.2	0.000	0.000	Ug5_2_8_L_0						
60 D	30.27	8.9363E-04	38.67	74.00	118.0	74.72	UL-RL	2.0566E+04	-11.800	77.33	
1.000	1.000	151.3	0.000	0.000	Ug5_2_8_L_0						
61 D	15.55	9.3495E-04	40.00	75.47	120.0	75.56	UL-RL	2.0566E+04	-12.000	80.00	
1.000	1.000	155.5	0.000	0.000	Ug5_2_8_L_0						

```

+-----+
|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
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+-----+

```

New Project

STRESS RESULTS FOR GROUP NO. 3

WallElement\_33 :  
ELEMENT TYPE 2 NO.OF ELEMENTS. IN THIS GROUP 60  
CURRENT TIME IS 7.0000

WALL2D ELEMENT

EL	TA	TB	MA	MB
1	1.13474E-10	-1.13474E-10	1.14719E-11	-1.39932E-12
2	0.41377	-0.41377	2.73155E-11	8.27530E-02
3	1.2585	-1.2585	-8.27530E-02	0.33446
4	2.5431	-2.5431	-0.33446	0.84308
5	4.2850	-4.2850	-0.84308	1.7001
6	6.4839	-6.4839	-1.7001	2.9969
7	9.1156	-9.1156	-2.9969	4.8200
8	12.175	-12.175	-4.8200	7.2550
9	15.667	-15.667	-7.2550	10.388
10	19.581	-19.581	-10.388	14.304
11	23.922	-23.922	-14.304	19.089
12	28.687	-28.687	-19.089	24.826
13	35.286	-35.286	-24.826	31.883
14	43.904	-43.904	-31.883	40.664
15	53.936	-53.936	-40.664	51.451
16	65.079	-65.079	-51.451	64.467
17	77.315	-77.315	-64.467	79.930
18	90.620	-90.620	-79.930	98.054
19	104.97	-104.97	-98.054	119.05
20	120.33	-120.33	-119.05	143.11
21	136.64	-136.64	-143.11	170.44
22	153.91	-153.91	-170.44	201.22
23	172.06	-172.06	-201.22	235.63
24	191.04	-191.04	-235.63	273.84
25	-111.25	111.25	-273.84	251.59
26	-90.894	90.894	-251.59	233.41
27	-69.702	69.702	-233.41	219.47
28	-47.802	47.802	-219.47	209.91
29	-25.316	25.316	-209.91	204.85
30	-2.3574	2.3574	-204.85	204.38
31	-220.03	220.03	-204.38	160.37
32	-197.04	197.04	-160.37	120.96
33	-174.46	174.46	-120.96	86.071
34	-152.36	152.36	-86.071	55.599
35	-130.79	130.79	-55.599	29.441
36	-111.16	111.16	-29.441	7.2084
37	-92.931	92.931	-7.2084	-11.378
38	-76.090	76.090	11.378	-26.596
39	-60.625	60.625	26.596	-38.721
40	-46.501	46.501	38.721	-48.021
41	-33.672	33.672	48.021	-54.755
42	-22.083	22.083	54.755	-59.172
43	-11.668	11.668	59.172	-61.506
44	-2.3610	2.3610	61.506	-61.978
45	5.9099	-5.9099	61.978	-60.796
46	12.776	-12.776	60.796	-58.240
47	18.246	-18.246	58.240	-54.591
48	22.438	-22.438	54.591	-50.104
49	25.461	-25.461	50.104	-45.011
50	27.417	-27.417	45.011	-39.528
51	28.396	-28.396	39.528	-33.849
52	28.478	-28.478	33.849	-28.153
53	27.732	-27.732	28.153	-22.607
54	26.214	-26.214	22.607	-17.364
55	23.969	-23.969	17.364	-12.570
56	21.033	-21.033	12.570	-8.3638
57	17.432	-17.432	8.3638	-4.8773
58	13.183	-13.183	4.8773	-2.2407
59	8.2973	-8.2973	2.2407	-0.58121
60	2.9059	-2.9059	0.58121	1.83888E-12



```
+-----+
|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*          |
|                                                                                                                                            |
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|                                                                                                                                            |
|          NewProject.BaseDesignSection_28.A1M1R1_1757          |
|          Exe Time :24 May 2018          18:23:40          |
+-----+
```

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

END OF PROCESS FOR PROBLEM

New Project

NONLINEAR SOLUTION CPU TIME .... 0.05 [sec]

DATABASE CREATION CPU TIME..... 0.21 [sec]

# Design Assumption : A2+M2+R1 - File di Paratie - File di output (.out)

```
+-----+
|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*          |
|                                                                                                     |
|                               NewProject.BaseDesignSection_28.A2M2R1_1787                               |
|                               Exe Time :24 May 2018      18:23:41                                   |
+-----+
```

```
*****
*
* 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  2017.1      *Build date:Jul 11, 2017*
*
* 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_28.A2M2R1_1787
STARTING
ACCEPTED <FILE,GENW >
ACCEPTED <FILE,PLOTTER,BINARY >
ACCEPTED <SOLVE TOTAL_STRESS >
ACCEPTED <PARAM ITEMAX 40 >
ACCEPTED <CONTROL HINGES 0 0.0001 0.001 >
```

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

```
PRELIMINARY OPERATIONS CPU TIME 0.00 [sec]
```

```

+-----+
|          PARATIEPLUS(TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION *Build date:Jul 11, 2017*          |
|                                                                                                                                            |
|                                                                                                                                            |
|                                                                                                                                            |
|                                                                                                                                            |
|          NewProject.BaseDesignSection_28.A2M2R1_1787          |
|          Exe Time :24 May 2018          18:23:41          |
+-----+

```

INPUT FILE HAS BEEN GENERATED BY WALGEN PROGRAM

New Project

```

NO. OF NODAL POINTS (NUMNP) ..... 61
NO. OF COORDINATES (NCOORD)..... 2
NO. OF NODE DOFS (NDOF)..... 2
NO. OF EQUATIONS (NEQ)..... 122
NO. OF CONSTRAINTS CARDS (NVINC)..... 0
NO. OF ELEMENT GROUPS (NEG)..... 3
NO. OF SOLUTION STEPS (NSTE)..... 7
NO. OF ELEMENT SETS ATTACHED TO SLAVE NODES ... 0
NO. OF RECORD FROM WALGEN ..... 86
NO. OF LONG NAMES (LASTNAME) ..... 20
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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+-----+
|                PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                                                                            |
|                NewProject.BaseDesignSection_28.A2M2R1_1787  |
|                Exe Time :24 May 2018  18:23:41  |
+-----+
```

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     86

```
1 : UNIT m kN
2 : TITLE New Project
3 : DELTA 0.2
4 : option param itemax 40
5 : option control hinges 0 0.0001 0.001
6 : WALL LeftWall_32 0 -12 0 1
7 : SOIL 0_L LeftWall_32 -12 0 1 0
8 : SOIL 0_R LeftWall_32 -12 0 2 180
9 : LDATA Ug5_2_8_L_0 0 LeftWall_32
10 : ATREST 0.5 0.5 1
11 : WEIGHT 19 10 10
12 : PERMEABILITY 0.0001
13 : RESISTANCE 0 37
14 : YOUNG 5.5E+04 1.65E+05
15 : ENDL
16 : MATERIAL S355_114 2.1E+08
17 : BEAM WallElement_33 LeftWall_32 -12 0 S355_114 0.25 00 00 0
18 : STRIP LeftWall_32 1 7 5 13 0 62 45
19 : STRIP LeftWall_32 1 7 18 17 0 45 45
20 : STRIP LeftWall_32 1 7 0.5 4.5 0 13 45
21 : STEP Stage1_31
22 : CHANGE Ug5_2_8_L_0 U-FRICT=31.08 LeftWall_32
23 : CHANGE Ug5_2_8_L_0 D-FRICT=31.08 LeftWall_32
24 : CHANGE Ug5_2_8_L_0 U-KA=0.319 LeftWall_32
25 : CHANGE Ug5_2_8_L_0 U-KP=4.578 LeftWall_32
26 : CHANGE Ug5_2_8_L_0 D-KA=0.319 LeftWall_32
27 : CHANGE Ug5_2_8_L_0 D-KP=4.578 LeftWall_32
28 : CHANGE Ug5_2_8_L_0 U-COHE=0 LeftWall_32
29 : CHANGE Ug5_2_8_L_0 D-COHE=0 LeftWall_32
30 : SETWALL LeftWall_32
31 : GEOM 0 0
32 : WATER 0 0 -12 0 0
33 : ADD WallElement_33
34 : ENDSTEP
35 : STEP Stage2_158
36 : CHANGE Ug5_2_8_L_0 D-FRICT=31.08 LeftWall_32
37 : CHANGE Ug5_2_8_L_0 D-COHE=0 LeftWall_32
38 : SETWALL LeftWall_32
39 : GEOM 0 -1
40 : WATER 0 1 -12 0 0
41 : ENDSTEP
42 : STEP Stage3_255
43 : CHANGE Ug5_2_8_L_0 D-FRICT=31.08 LeftWall_32
44 : CHANGE Ug5_2_8_L_0 D-COHE=0 LeftWall_32
45 : SETWALL LeftWall_32
46 : GEOM 0 -2
47 : WATER 0 2 -12 0 0
48 : ENDSTEP
49 : STEP Stage4_352
50 : CHANGE Ug5_2_8_L_0 D-FRICT=31.08 LeftWall_32
51 : CHANGE Ug5_2_8_L_0 D-COHE=0 LeftWall_32
52 : SETWALL LeftWall_32
53 : GEOM 0 -3
54 : WATER 0 3 -12 0 0
55 : LOAD step LeftWall_32 -2.7 1 -20
56 : LOAD step LeftWall_32 -3 1 -72
57 : ENDSTEP
58 : STEP Stage5_449
59 : CHANGE Ug5_2_8_L_0 D-FRICT=31.08 LeftWall_32
60 : CHANGE Ug5_2_8_L_0 D-COHE=0 LeftWall_32
61 : SETWALL LeftWall_32
62 : GEOM 0 -4
63 : SURCHARGE 0 0 0 -4
64 : WATER 0 4 -12 0 0
65 : LOAD step LeftWall_32 -4 1 -80.5
66 : LOAD step LeftWall_32 -3.3 1 -105
67 : ENDSTEP
68 : STEP Stage6_546
69 : CHANGE Ug5_2_8_L_0 D-FRICT=31.08 LeftWall_32
70 : CHANGE Ug5_2_8_L_0 D-COHE=0 LeftWall_32
71 : SETWALL LeftWall_32
72 : GEOM 0 -5
73 : SURCHARGE 0 0 0 0
74 : WATER 0 5 -12 0 0
75 : LOAD step LeftWall_32 -5 1 -45.2
76 : LOAD step LeftWall_32 -4 1 -181
77 : ENDSTEP
78 : STEP Stage7_643
```

```
79 : CHANGE Ug5_2_8_L_0 D-FRICT=31.08 LeftWall_32
80 : CHANGE Ug5_2_8_L_0 D-COHE=0 LeftWall_32
81 : SETWALL LeftWall_32
82 : GEOM 0 -6
83 : WATER 0 6 -12 0 0
84 : LOAD constant LeftWall_32 -6 1 -241
85 : LOAD constant LeftWall_32 -4.7 1 -322
86 : ENDSTEP
```





52	52	1	0.2000	0.000	0.000	0.000	1.000
53	53	1	0.2000	0.000	0.000	0.000	1.000
54	54	1	0.2000	0.000	0.000	0.000	1.000
55	55	1	0.2000	0.000	0.000	0.000	1.000
56	56	1	0.2000	0.000	0.000	0.000	1.000
57	57	1	0.2000	0.000	0.000	0.000	1.000
58	58	1	0.2000	0.000	0.000	0.000	1.000
59	59	1	0.2000	0.000	0.000	0.000	1.000
60	60	1	0.2000	0.000	0.000	0.000	1.000
61	61	1	0.1000	0.000	0.000	0.000	1.000





52	52	1	0.2000	0.000	0.000	0.000	2.000
53	53	1	0.2000	0.000	0.000	0.000	2.000
54	54	1	0.2000	0.000	0.000	0.000	2.000
55	55	1	0.2000	0.000	0.000	0.000	2.000
56	56	1	0.2000	0.000	0.000	0.000	2.000
57	57	1	0.2000	0.000	0.000	0.000	2.000
58	58	1	0.2000	0.000	0.000	0.000	2.000
59	59	1	0.2000	0.000	0.000	0.000	2.000
60	60	1	0.2000	0.000	0.000	0.000	2.000
61	61	1	0.1000	0.000	0.000	0.000	2.000



39	39	40	1	0.000	0.000	0.2500	0.000	0.000
40	40	41	1	0.000	0.000	0.2500	0.000	0.000
41	41	42	1	0.000	0.000	0.2500	0.000	0.000
42	42	43	1	0.000	0.000	0.2500	0.000	0.000
43	43	44	1	0.000	0.000	0.2500	0.000	0.000
44	44	45	1	0.000	0.000	0.2500	0.000	0.000
45	45	46	1	0.000	0.000	0.2500	0.000	0.000
46	46	47	1	0.000	0.000	0.2500	0.000	0.000
47	47	48	1	0.000	0.000	0.2500	0.000	0.000
48	48	49	1	0.000	0.000	0.2500	0.000	0.000
49	49	50	1	0.000	0.000	0.2500	0.000	0.000
50	50	51	1	0.000	0.000	0.2500	0.000	0.000
51	51	52	1	0.000	0.000	0.2500	0.000	0.000
52	52	53	1	0.000	0.000	0.2500	0.000	0.000
53	53	54	1	0.000	0.000	0.2500	0.000	0.000
54	54	55	1	0.000	0.000	0.2500	0.000	0.000
55	55	56	1	0.000	0.000	0.2500	0.000	0.000
56	56	57	1	0.000	0.000	0.2500	0.000	0.000
57	57	58	1	0.000	0.000	0.2500	0.000	0.000
58	58	59	1	0.000	0.000	0.2500	0.000	0.000
59	59	60	1	0.000	0.000	0.2500	0.000	0.000
60	60	61	1	0.000	0.000	0.2500	0.000	0.000

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+-----+
|          PARATIEPLUS(TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION  *Build date:Jul 11, 2017*          |
|                                                                                                                                            |
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|          NewProject.BaseDesignSection_28.A2M2R1_1787                                          |
|          Exe Time :24 May 2018      18:23:41                                                |
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```
NO. OF NODAL LOADS (NLOAD) ..... 8
NO. OF LOAD CURVES (NLCUR) ..... 14
MAXIMUM POINTS/LCURVE (NPTM)..... 5
```

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
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|                                                                                               |
|                                                                                               |
|                                                                                               |
+-----+

```

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
8.00000	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
8.00000	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
8.00000	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
8.00000	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
8.00000	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
8.00000	0.0000E+00

LOAD FUNCTION NUMBER = 7  
NUMBER OF TIME POINTS = 5

TIME VALUE	FUNCTION
0.00000	0.0000E+00
6.80000	0.0000E+00
7.00000	0.1000E+01
7.20000	0.0000E+00
8.00000	0.0000E+00

LOAD FUNCTION NUMBER = 8  
NUMBER OF TIME POINTS = 4

TIME VALUE	FUNCTION
0.00000	0.0000E+00
0.80000	0.0000E+00
1.00000	0.1000E+01
8.00000	0.1000E+01

LOAD FUNCTION NUMBER = 9  
NUMBER OF TIME POINTS = 4

TIME VALUE	FUNCTION
0.00000	0.0000E+00
1.80000	0.0000E+00
2.00000	0.1000E+01
8.00000	0.1000E+01

LOAD FUNCTION NUMBER = 10  
NUMBER OF TIME POINTS = 4

TIME VALUE	FUNCTION
0.00000	0.0000E+00
2.80000	0.0000E+00
3.00000	0.1000E+01
8.00000	0.1000E+01

LOAD FUNCTION NUMBER = 11  
NUMBER OF TIME POINTS = 4

TIME VALUE	FUNCTION
0.00000	0.0000E+00
3.80000	0.0000E+00
4.00000	0.1000E+01
8.00000	0.1000E+01

LOAD FUNCTION NUMBER = 12  
NUMBER OF TIME POINTS = 4

TIME VALUE	FUNCTION
0.00000	0.0000E+00
4.80000	0.0000E+00
5.00000	0.1000E+01
8.00000	0.1000E+01

LOAD FUNCTION NUMBER = 13  
NUMBER OF TIME POINTS = 4

TIME VALUE	FUNCTION
0.00000	0.0000E+00
5.80000	0.0000E+00
6.00000	0.1000E+01
8.00000	0.1000E+01

LOAD FUNCTION NUMBER = 14  
NUMBER OF TIME POINTS = 4

TIME VALUE	FUNCTION
0.00000	0.0000E+00

6.80000	0.0000E+00
7.00000	0.1000E+01
8.00000	0.1000E+01

CONCENTRATED LOADS

NODE	DIRECTION	LOAD CURVE	LOAD CURVE MULTIPL
14	1	4	-0.2000E+02
16	1	4	-0.7200E+02
21	1	5	-0.8050E+02
17	1	5	-0.1050E+03
26	1	6	-0.4520E+02
21	1	6	-0.1810E+03
31	1	14	-0.2410E+03
25	1	14	-0.3220E+03

NO. OF DISTRIBUTED LOAD CARDS 0



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+-----+
|          PARATIEPLUS(TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION *Build date:Jul 11, 2017*          |
|                                                                                                                                            |
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|                                                                                                                                            |
|                                                                                                                                            |
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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	-92.0000000
STEP	4	TOTAL APPLIED LOAD IN DIR.	4	X-ROT. F	0.0000000
STEP	5	TOTAL APPLIED LOAD IN DIR.	2	Y-DISPL.F	-185.50000
STEP	5	TOTAL APPLIED LOAD IN DIR.	4	X-ROT. F	0.0000000
STEP	6	TOTAL APPLIED LOAD IN DIR.	2	Y-DISPL.F	-226.20000
STEP	6	TOTAL APPLIED LOAD IN DIR.	4	X-ROT. F	0.0000000
STEP	7	TOTAL APPLIED LOAD IN DIR.	2	Y-DISPL.F	-563.00000
STEP	7	TOTAL APPLIED LOAD IN DIR.	4	X-ROT. F	0.0000000

LOAD INPUT SECTION COMPLETED

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+-----+
|          PARATIEPLUS(TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|                               NewProject.BaseDesignSection_28.A2M2R1_1787                       |
|                               Exe Time :24 May 2018      18:23:41                             |
+-----+
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```
NO. OF LAYERS ..... 1
NO. OF DATA PER LAYER..... 100
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+-----+
|                PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                                  |
|                                                                                                  |
|                NewProject.BaseDesignSection_28.A2M2R1_1787  |
|                Exe Time :24 May 2018  18:23:41  |
+-----+

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LAYER DESCRIPTORS FOR STEP NO. 1

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

```

ITEM NO.  1<NAME      >= 18.000  (BOTH WALLS)
ITEM NO.  2<NATURE   >= 1.0000  (BOTH WALLS)
ITEM NO.  3<LEVEL    >= 0.0000  (BOTH WALLS)
ITEM NO.  4<WALL     >= 1.0000  (BOTH WALLS)
ITEM NO.  5<GAMMAD   >= 19.000  (BOTH WALLS)
ITEM NO.  6<GAMMAB   >= 10.000  (BOTH WALLS)
ITEM NO.  7<GAMMAW   >= 10.000  (BOTH WALLS)
ITEM NO.  9<U-FRICT  >= 31.080  WALL NO.  1
ITEM NO.  9<U-FRICT  >= 37.000  WALL NO.  2
ITEM NO. 10<U-KA     >= 0.31900  WALL NO.  1
ITEM NO. 11<U-KP     >= 4.5780  WALL NO.  1
ITEM NO. 12<K0-NC    >= 0.50000  (BOTH WALLS)
ITEM NO. 13<NEXP     >= 0.50000  (BOTH WALLS)
ITEM NO. 14<OCR      >= 1.0000  (BOTH WALLS)
ITEM NO. 16<MODEL    >= 1.0000  (BOTH WALLS)
ITEM NO. 17<EVC      >= 55000.  (BOTH WALLS)
ITEM NO. 18<EUR      >= 0.16500E+06 (BOTH WALLS)
ITEM NO. 27<U-PERM   >= 0.10000E-03 (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 >= 31.080  WALL NO.  1
ITEM NO. 59<D-FRICT >= 37.000  WALL NO.  2
ITEM NO. 60<D-KA    >= 0.31900  WALL NO.  1
ITEM NO. 61<D-KP    >= 4.5780  WALL NO.  1
ITEM NO. 77<D-PERM  >= 0.10000E-03 (BOTH WALLS)

```

LAYER DESCRIPTORS FOR STEP NO. 2

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

```

ITEM NO.  1<NAME      >= 18.000  (BOTH WALLS)
ITEM NO.  2<NATURE   >= 1.0000  (BOTH WALLS)
ITEM NO.  3<LEVEL    >= 0.0000  (BOTH WALLS)
ITEM NO.  4<WALL     >= 1.0000  (BOTH WALLS)
ITEM NO.  5<GAMMAD   >= 19.000  (BOTH WALLS)
ITEM NO.  6<GAMMAB   >= 10.000  (BOTH WALLS)
ITEM NO.  7<GAMMAW   >= 10.000  (BOTH WALLS)
ITEM NO.  9<U-FRICT  >= 31.080  WALL NO.  1
ITEM NO.  9<U-FRICT  >= 37.000  WALL NO.  2
ITEM NO. 10<U-KA     >= 0.31900  WALL NO.  1
ITEM NO. 11<U-KP     >= 4.5780  WALL NO.  1
ITEM NO. 12<K0-NC    >= 0.50000  (BOTH WALLS)
ITEM NO. 13<NEXP     >= 0.50000  (BOTH WALLS)
ITEM NO. 14<OCR      >= 1.0000  (BOTH WALLS)
ITEM NO. 16<MODEL    >= 1.0000  (BOTH WALLS)
ITEM NO. 17<EVC      >= 55000.  (BOTH WALLS)
ITEM NO. 18<EUR      >= 0.16500E+06 (BOTH WALLS)
ITEM NO. 27<U-PERM   >= 0.10000E-03 (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 >= 31.080  WALL NO.  1
ITEM NO. 59<D-FRICT >= 37.000  WALL NO.  2
ITEM NO. 60<D-KA    >= 0.31900  WALL NO.  1
ITEM NO. 61<D-KP    >= 4.5780  WALL NO.  1
ITEM NO. 77<D-PERM  >= 0.10000E-03 (BOTH WALLS)

```

LAYER DESCRIPTORS FOR STEP NO. 3

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

```

ITEM NO.  1<NAME      >= 18.000  (BOTH WALLS)
ITEM NO.  2<NATURE   >= 1.0000  (BOTH WALLS)
ITEM NO.  3<LEVEL    >= 0.0000  (BOTH WALLS)
ITEM NO.  4<WALL     >= 1.0000  (BOTH WALLS)
ITEM NO.  5<GAMMAD   >= 19.000  (BOTH WALLS)
ITEM NO.  6<GAMMAB   >= 10.000  (BOTH WALLS)
ITEM NO.  7<GAMMAW   >= 10.000  (BOTH WALLS)
ITEM NO.  9<U-FRICT  >= 31.080  WALL NO.  1
ITEM NO.  9<U-FRICT  >= 37.000  WALL NO.  2
ITEM NO. 10<U-KA     >= 0.31900  WALL NO.  1
ITEM NO. 11<U-KP     >= 4.5780  WALL NO.  1
ITEM NO. 12<K0-NC    >= 0.50000  (BOTH WALLS)
ITEM NO. 13<NEXP     >= 0.50000  (BOTH WALLS)
ITEM NO. 14<OCR      >= 1.0000  (BOTH WALLS)

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ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)  
 ITEM NO. 17<EVC >= 55000. (BOTH WALLS)  
 ITEM NO. 18<EUR >= 0.16500E+06 (BOTH WALLS)  
 ITEM NO. 27<U-PERM >= 0.10000E-03 (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 >= 31.080 WALL NO. 1  
 ITEM NO. 59<D-FRICT >= 37.000 WALL NO. 2  
 ITEM NO. 60<D-KA >= 0.31900 WALL NO. 1  
 ITEM NO. 61<D-KP >= 4.5780 WALL NO. 1  
 ITEM NO. 77<D-PERM >= 0.10000E-03 (BOTH WALLS)

LAYER DESCRIPTORS FOR STEP NO. 4

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

ITEM NO. 1<NAME >= 18.000 (BOTH WALLS)  
 ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)  
 ITEM NO. 3<LEVEL >= 0.0000 (BOTH WALLS)  
 ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)  
 ITEM NO. 5<GAMMAD >= 19.000 (BOTH WALLS)  
 ITEM NO. 6<GAMMAB >= 10.000 (BOTH WALLS)  
 ITEM NO. 7<GAMMAW >= 10.000 (BOTH WALLS)  
 ITEM NO. 9<U-FRICT >= 31.080 WALL NO. 1  
 ITEM NO. 9<U-FRICT >= 37.000 WALL NO. 2  
 ITEM NO. 10<U-KA >= 0.31900 WALL NO. 1  
 ITEM NO. 11<U-KP >= 4.5780 WALL NO. 1  
 ITEM NO. 12<K0-NC >= 0.50000 (BOTH WALLS)  
 ITEM NO. 13<NEXP >= 0.50000 (BOTH WALLS)  
 ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)  
 ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)  
 ITEM NO. 17<EVC >= 55000. (BOTH WALLS)  
 ITEM NO. 18<EUR >= 0.16500E+06 (BOTH WALLS)  
 ITEM NO. 27<U-PERM >= 0.10000E-03 (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 >= 31.080 WALL NO. 1  
 ITEM NO. 59<D-FRICT >= 37.000 WALL NO. 2  
 ITEM NO. 60<D-KA >= 0.31900 WALL NO. 1  
 ITEM NO. 61<D-KP >= 4.5780 WALL NO. 1  
 ITEM NO. 77<D-PERM >= 0.10000E-03 (BOTH WALLS)

LAYER DESCRIPTORS FOR STEP NO. 5

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

ITEM NO. 1<NAME >= 18.000 (BOTH WALLS)  
 ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)  
 ITEM NO. 3<LEVEL >= 0.0000 (BOTH WALLS)  
 ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)  
 ITEM NO. 5<GAMMAD >= 19.000 (BOTH WALLS)  
 ITEM NO. 6<GAMMAB >= 10.000 (BOTH WALLS)  
 ITEM NO. 7<GAMMAW >= 10.000 (BOTH WALLS)  
 ITEM NO. 9<U-FRICT >= 31.080 WALL NO. 1  
 ITEM NO. 9<U-FRICT >= 37.000 WALL NO. 2  
 ITEM NO. 10<U-KA >= 0.31900 WALL NO. 1  
 ITEM NO. 11<U-KP >= 4.5780 WALL NO. 1  
 ITEM NO. 12<K0-NC >= 0.50000 (BOTH WALLS)  
 ITEM NO. 13<NEXP >= 0.50000 (BOTH WALLS)  
 ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)  
 ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)  
 ITEM NO. 17<EVC >= 55000. (BOTH WALLS)  
 ITEM NO. 18<EUR >= 0.16500E+06 (BOTH WALLS)  
 ITEM NO. 27<U-PERM >= 0.10000E-03 (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 >= 31.080 WALL NO. 1  
 ITEM NO. 59<D-FRICT >= 37.000 WALL NO. 2  
 ITEM NO. 60<D-KA >= 0.31900 WALL NO. 1  
 ITEM NO. 61<D-KP >= 4.5780 WALL NO. 1  
 ITEM NO. 77<D-PERM >= 0.10000E-03 (BOTH WALLS)

LAYER DESCRIPTORS FOR STEP NO. 6

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

ITEM NO. 1<NAME >= 18.000 (BOTH WALLS)  
 ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)  
 ITEM NO. 3<LEVEL >= 0.0000 (BOTH WALLS)  
 ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)  
 ITEM NO. 5<GAMMAD >= 19.000 (BOTH WALLS)  
 ITEM NO. 6<GAMMAB >= 10.000 (BOTH WALLS)  
 ITEM NO. 7<GAMMAW >= 10.000 (BOTH WALLS)  
 ITEM NO. 9<U-FRICT >= 31.080 WALL NO. 1  
 ITEM NO. 9<U-FRICT >= 37.000 WALL NO. 2  
 ITEM NO. 10<U-KA >= 0.31900 WALL NO. 1  
 ITEM NO. 11<U-KP >= 4.5780 WALL NO. 1  
 ITEM NO. 12<K0-NC >= 0.50000 (BOTH WALLS)

ITEM NO. 13<NEXP >= 0.50000 (BOTH WALLS)  
 ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)  
 ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)  
 ITEM NO. 17<EVC >= 55000. (BOTH WALLS)  
 ITEM NO. 18<EUR >= 0.16500E+06 (BOTH WALLS)  
 ITEM NO. 27<U-PERM >= 0.10000E-03 (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 >= 31.080 WALL NO. 1  
 ITEM NO. 59<D-FRICT >= 37.000 WALL NO. 2  
 ITEM NO. 60<D-KA >= 0.31900 WALL NO. 1  
 ITEM NO. 61<D-KP >= 4.5780 WALL NO. 1  
 ITEM NO. 77<D-PERM >= 0.10000E-03 (BOTH WALLS)

LAYER DESCRIPTORS FOR STEP NO. 7

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 1 FOR STEP NO. 7

ITEM NO. 1<NAME >= 18.000 (BOTH WALLS)  
 ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)  
 ITEM NO. 3<LEVEL >= 0.0000 (BOTH WALLS)  
 ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)  
 ITEM NO. 5<GAMMAD >= 19.000 (BOTH WALLS)  
 ITEM NO. 6<GAMMAB >= 10.000 (BOTH WALLS)  
 ITEM NO. 7<GAMMAW >= 10.000 (BOTH WALLS)  
 ITEM NO. 9<U-FRICT >= 31.080 WALL NO. 1  
 ITEM NO. 9<U-FRICT >= 37.000 WALL NO. 2  
 ITEM NO. 10<U-KA >= 0.31900 WALL NO. 1  
 ITEM NO. 11<U-KP >= 4.5780 WALL NO. 1  
 ITEM NO. 12<K0-NC >= 0.50000 (BOTH WALLS)  
 ITEM NO. 13<NEXP >= 0.50000 (BOTH WALLS)  
 ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)  
 ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)  
 ITEM NO. 17<EVC >= 55000. (BOTH WALLS)  
 ITEM NO. 18<EUR >= 0.16500E+06 (BOTH WALLS)  
 ITEM NO. 27<U-PERM >= 0.10000E-03 (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 >= 31.080 WALL NO. 1  
 ITEM NO. 59<D-FRICT >= 37.000 WALL NO. 2  
 ITEM NO. 60<D-KA >= 0.31900 WALL NO. 1  
 ITEM NO. 61<D-KP >= 4.5780 WALL NO. 1  
 ITEM NO. 77<D-PERM >= 0.10000E-03 (BOTH WALLS)

DEFAULT WATER UNIT WEIGHT = 10.000  
 AVERAGED ON 7 VALUES

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
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NewProject.BaseDesignSection_28.A2M2R1_1787
Exe Time :24 May 2018      18:23:41

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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           0.000      0.000
Z-EXCAVATION   0.000      0.000
Z-WATER_TABLE  0.000      -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  -12.00    -12.00
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           0.000      0.000
Z-EXCAVATION   -1.000      0.000
Z-WATER_TABLE  0.000      -0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL  0.000      0.000
ZQ             0.000      0.000
DZW_OF_THE_WATER_TABLE  1.000      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  -12.00    -12.00
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

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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	0.000	0.000
Z-EXCAVATION	-5.000	0.000
Z-WATER_TABLE	0.000	-0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL	0.000	0.000
ZQ	0.000	0.000
DZW_OF_THE_WATER_TABLE	5.000	0.000
QS_ON_THE_EXCAVATION_SIDE	0.000	0.000
ZQS	0.000	-0.9990E+30
ZCUT	0.000	0.000
BALANCE LEVEL FOR PORE PRESSURES	-12.00	-12.00
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

STEP NO. 7

	LEFT WALL	RIGHT WALL
Y	0.000	-0.9990E+30
Z-PC	0.000	0.000
Z-EXCAVATION	-6.000	0.000
Z-WATER_TABLE	0.000	-0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL	0.000	0.000
ZQ	0.000	0.000
DZW_OF_THE_WATER_TABLE	6.000	0.000
QS_ON_THE_EXCAVATION_SIDE	0.000	0.000
ZQS	0.000	-0.9990E+30
ZCUT	0.000	0.000
BALANCE LEVEL FOR PORE PRESSURES	-12.00	-12.00
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   7

LEFT-HAND WALL

LOWER LEVEL           -12.00000  
UPPER LEVEL            0.00000

RIGHT-HAND WALL

LOWER LEVEL           -12.00000  
UPPER LEVEL            0.00000

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION *Build date:Jul 11, 2017* |
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INITIAL STRESS TABLES

SECTION

NUMBER OF DEFINED TABLES 3

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) 7.0000

TYPE BOUSSINESQ

HORIZONTAL DISTANCE (DY) 5.000000000000000  
 FOUNDATION WIDTH (B) 13.000000000000000  
 ZETA-F..... 0.000000000000000E+000  
 Q-F ..... 62.000000000000000  
 BETA ..... 45.000000000000000  
 BEHAVIOUR (0=FREE, 1=REFLECTING) 0.000000000000000E+000

INPUT DATA FOR INITIAL STRESS SET NO. 2  
 PERTAINING SOIL ELEMENTS AT Y-COORD 0.0000

ACTIVATION TIME 1.0000  
 END TIME (TIME BEYOND WHICH IT IS REMOVED) 7.0000

TYPE BOUSSINESQ

HORIZONTAL DISTANCE (DY) 18.000000000000000  
 FOUNDATION WIDTH (B) 17.000000000000000  
 ZETA-F..... 0.000000000000000E+000  
 Q-F ..... 45.000000000000000  
 BETA ..... 45.000000000000000  
 BEHAVIOUR (0=FREE, 1=REFLECTING) 0.000000000000000E+000

INPUT DATA FOR INITIAL STRESS SET NO. 3  
 PERTAINING SOIL ELEMENTS AT Y-COORD 0.0000

ACTIVATION TIME 1.0000  
 END TIME (TIME BEYOND WHICH IT IS REMOVED) 7.0000

TYPE BOUSSINESQ

HORIZONTAL DISTANCE (DY) 0.500000000000000  
 FOUNDATION WIDTH (B) 4.500000000000000  
 ZETA-F..... 0.000000000000000E+000  
 Q-F ..... 13.000000000000000  
 BETA ..... 45.000000000000000  
 BEHAVIOUR (0=FREE, 1=REFLECTING) 0.000000000000000E+000

ELEMENT GROUPS BACKUP AREA CAN STAY IN CORE AT  
 POSITION 3123

NO. OF D.P.W FOR THIS AREA 7200  
 MAX NO. OF D.P.W. AVAILABLE 81920  
 \*\* MAX NO OF ITERATIONS SET TO 40

ITER 0 RNORM = 0.000 RMNORM= 0.000  
 RINORM=0.6782E+05 RIMNOR= 0.000  
 RENORM=0.1428E-27 REMNOR= 0.000 RATIO =0.4588E-16 TOLER =0.1000E-03 CONVERGED !  
 RFMAX = 38.55 RMMAX = 0.000  
 RTSMAL=0.1000E-03 RMSMAL= 0.000  
 RDT =0.6782E+05 RDR = 0.000  
 RATIO=0.4588E-16 RATIO= 0.000  
 MAX UN=0.3553E-14 IEQ= 121 NODE 61 DOF 1 Y-DISPL.F  
 MIN UN=-.7105E-14 IEQ= 117 NODE 59 DOF 1 Y-DISPL.F  
 NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 1 RNORM = 0.000 RMNORM= 0.000  
 RINORM=0.6782E+05 RIMNOR= 0.000  
 RENORM=0.8925E-30 REMNOR=0.1751E-54 RATIO =0.3628E-17 TOLER =0.1000E-03 CONVERGED !  
 RFMAX = 38.55 RMMAX = 0.000  
 RTSMAL=0.1000E-03 RMSMAL= 0.000  
 RDT =0.6782E+05 RDR = 0.000  
 RATIO=0.3628E-17 RATIO= 0.000  
 MAX UN=0.1074E-15 IEQ= 35 NODE 18 DOF 1 Y-DISPL.F

MIN UN=-.3514E-15 IEQ= 119 NODE 60 DOF 1 Y-DISPL.F  
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 2 RNORM = 0.000 RMNORM= 0.000  
RINORM=0.6782E+05 RIMNOR= 0.000  
RENORM=0.7687E-30 REMNOR=0.2508E-54 RATIO =0.3367E-17 TOLER =0.1000E-03 CONVERGED !  
RFMAX = 38.55 RMMAX = 0.000  
RTSMAL=0.1000E-03 RMSMAL= 0.000  
RDT =0.6782E+05 RDR = 0.000  
RATIOT=0.3367E-17 RATIOOR= 0.000  
MAX UN=0.7387E-16 IEQ= 35 NODE 18 DOF 1 Y-DISPL.F  
MIN UN=-.3004E-15 IEQ= 119 NODE 60 DOF 1 Y-DISPL.F  
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|                               NewProject.BaseDesignSection_28.A2M2R1_1787                       |
|                               Exe Time :24 May 2018      18:23:41                             |
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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



1.000	1.000	115.5	0.000	0.000	Ug5_2_8_L_0					
34 D	23.69	4.5052E-21	81.10	52.47	81.10	52.47	V-C	6.0857E+04	-6.600	66.00
1.000	1.000	118.5	0.000	0.000	Ug5_2_8_L_0					
35 D	24.28	5.2653E-21	83.45	53.38	83.45	53.38	V-C	6.0857E+04	-6.800	68.00
1.000	1.000	121.4	0.000	0.000	Ug5_2_8_L_0					
36 D	24.86	5.8988E-21	86.36	54.28	86.36	54.28	V-C	6.0857E+04	-7.000	70.00
1.000	1.000	124.3	0.000	0.000	Ug5_2_8_L_0					
37 D	25.44	6.4111E-21	88.67	55.18	88.67	55.18	V-C	6.0857E+04	-7.200	72.00
1.000	1.000	127.2	0.000	0.000	Ug5_2_8_L_0					
38 D	26.01	6.8066E-21	91.52	56.07	91.52	56.07	V-C	6.0857E+04	-7.400	74.00
1.000	1.000	130.1	0.000	0.000	Ug5_2_8_L_0					
39 D	26.59	7.1055E-21	93.80	56.95	93.80	56.95	V-C	6.0857E+04	-7.600	76.00
1.000	1.000	133.0	0.000	0.000	Ug5_2_8_L_0					
40 D	27.17	7.3787E-21	96.60	57.83	96.60	57.83	V-C	6.0857E+04	-7.800	78.00
1.000	1.000	135.8	0.000	0.000	Ug5_2_8_L_0					
41 D	27.74	7.6435E-21	99.36	58.70	99.36	58.70	V-C	6.0857E+04	-8.000	80.00
1.000	1.000	138.7	0.000	0.000	Ug5_2_8_L_0					
42 D	28.31	7.8979E-21	101.6	59.56	101.6	59.56	V-C	6.0857E+04	-8.200	82.00
1.000	1.000	141.6	0.000	0.000	Ug5_2_8_L_0					
43 D	28.88	8.1381E-21	104.3	60.42	104.3	60.42	V-C	6.0857E+04	-8.400	84.00
1.000	1.000	144.4	0.000	0.000	Ug5_2_8_L_0					
44 D	29.46	8.3578E-21	106.5	61.28	106.5	61.28	V-C	6.0857E+04	-8.600	86.00
1.000	1.000	147.3	0.000	0.000	Ug5_2_8_L_0					
45 D	30.03	8.5658E-21	109.2	62.13	109.2	62.13	V-C	6.0857E+04	-8.800	88.00
1.000	1.000	150.1	0.000	0.000	Ug5_2_8_L_0					
46 D	30.60	8.8375E-21	111.4	62.98	111.4	62.98	V-C	6.0857E+04	-9.000	90.00
1.000	1.000	153.0	0.000	0.000	Ug5_2_8_L_0					
47 D	31.17	9.2626E-21	114.0	63.83	114.0	63.83	V-C	6.0857E+04	-9.200	92.00
1.000	1.000	155.8	0.000	0.000	Ug5_2_8_L_0					
48 D	31.73	9.9280E-21	116.2	64.67	116.2	64.67	V-C	6.0857E+04	-9.400	94.00
1.000	1.000	158.7	0.000	0.000	Ug5_2_8_L_0					
49 D	32.30	1.0900E-20	118.8	65.51	118.8	65.51	V-C	6.0857E+04	-9.600	96.00
1.000	1.000	161.5	0.000	0.000	Ug5_2_8_L_0					
50 D	32.87	1.2171E-20	121.0	66.36	121.0	66.36	V-C	6.0857E+04	-9.800	98.00
1.000	1.000	164.4	0.000	0.000	Ug5_2_8_L_0					
51 D	33.44	1.3712E-20	123.6	67.20	123.6	67.20	V-C	6.0857E+04	-10.000	100.00
1.000	1.000	167.2	0.000	0.000	Ug5_2_8_L_0					
52 D	34.01	1.5493E-20	125.8	68.03	125.8	68.03	V-C	6.0857E+04	-10.200	102.0
1.000	1.000	170.0	0.000	0.000	Ug5_2_8_L_0					
53 D	34.57	1.7474E-20	128.3	68.87	128.3	68.87	V-C	6.0857E+04	-10.400	104.0
1.000	1.000	172.9	0.000	0.000	Ug5_2_8_L_0					
54 D	35.14	1.9614E-20	130.8	69.71	130.8	69.71	V-C	6.0857E+04	-10.600	106.0
1.000	1.000	175.7	0.000	0.000	Ug5_2_8_L_0					
55 D	35.71	2.1865E-20	133.0	70.55	133.0	70.55	V-C	6.0857E+04	-10.800	108.0
1.000	1.000	178.5	0.000	0.000	Ug5_2_8_L_0					
56 D	36.28	2.4172E-20	135.5	71.39	135.5	71.39	V-C	6.0857E+04	-11.000	110.0
1.000	1.000	181.4	0.000	0.000	Ug5_2_8_L_0					
57 D	36.84	2.6476E-20	137.6	72.22	137.6	72.22	V-C	6.0857E+04	-11.200	112.0
1.000	1.000	184.2	0.000	0.000	Ug5_2_8_L_0					
58 D	37.41	2.8710E-20	140.1	73.06	140.1	73.06	V-C	6.0857E+04	-11.400	114.0
1.000	1.000	187.1	0.000	0.000	Ug5_2_8_L_0					
59 D	37.98	3.0798E-20	142.2	73.90	142.2	73.90	V-C	6.0857E+04	-11.600	116.0
1.000	1.000	189.9	0.000	0.000	Ug5_2_8_L_0					
60 D	38.55	3.2694E-20	144.7	74.74	144.7	74.74	V-C	6.0857E+04	-11.800	118.0
1.000	1.000	192.7	0.000	0.000	Ug5_2_8_L_0					
61 D	19.56	3.4480E-20	146.8	75.57	146.8	75.57	V-C	6.0857E+04	-12.000	120.0
1.000	1.000	195.6	0.000	0.000	Ug5_2_8_L_0					

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*          |
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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

O\_R :  
ELEMENT TYPE    5 NO.OF ELEMENTS. IN THIS GROUP    61  
CURRENT    TIME    I S    1.0000

HARDENING 2D SOIL ELEMENT

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

EL * FACTOR	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
1 D	0.000	-5.5016E-21	0.000	0.000	0.000	0.000	V-C	3.8834E+04	0.000	0.000	
1.000	1.000	0.000	0.000	0.000	Ug5_2_8_L_0						
2 D	1.393	-4.4501E-21	2.000	4.964	2.000	4.964	V-C	3.8834E+04	-0.2000	2.000	
1.000	1.000	6.964	0.000	0.000	Ug5_2_8_L_0						
3 D	2.546	-3.3979E-21	4.000	8.728	4.000	8.728	V-C	3.8834E+04	-0.4000	4.000	
1.000	1.000	12.73	0.000	0.000	Ug5_2_8_L_0						
4 D	3.503	-2.3437E-21	6.000	11.52	6.000	11.52	V-C	3.8834E+04	-0.6000	6.000	
1.000	1.000	17.52	0.000	0.000	Ug5_2_8_L_0						
5 D	4.364	-1.2853E-21	8.000	13.82	8.000	13.82	V-C	3.8834E+04	-0.8000	8.000	
1.000	1.000	21.82	0.000	0.000	Ug5_2_8_L_0						
6 D	5.179	-2.2069E-22	10.00	15.90	10.00	15.90	V-C	3.8834E+04	-1.000	10.00	
1.000	1.000	25.90	0.000	0.000	Ug5_2_8_L_0						
7 D	5.970	8.5259E-22	12.00	17.85	12.00	17.85	V-C	3.8834E+04	-1.200	12.00	
1.000	1.000	29.85	0.000	0.000	Ug5_2_8_L_0						
8 D	6.743	1.9366E-21	14.00	19.72	14.00	19.72	V-C	3.8834E+04	-1.400	14.00	
1.000	1.000	33.72	0.000	0.000	Ug5_2_8_L_0						
9 D	7.504	3.0287E-21	16.00	21.52	16.00	21.52	V-C	3.8834E+04	-1.600	16.00	
1.000	1.000	37.52	0.000	0.000	Ug5_2_8_L_0						
10 D	8.252	4.1080E-21	18.00	23.26	18.00	23.26	V-C	3.8834E+04	-1.800	18.00	
1.000	1.000	41.26	0.000	0.000	Ug5_2_8_L_0						
11 D	8.989	5.1485E-21	20.00	24.95	20.00	24.95	V-C	3.8834E+04	-2.000	20.00	
1.000	1.000	44.95	0.000	0.000	Ug5_2_8_L_0						
12 D	9.716	6.1229E-21	22.00	26.58	22.00	26.58	V-C	3.8834E+04	-2.200	22.00	
1.000	1.000	48.58	0.000	0.000	Ug5_2_8_L_0						
13 D	10.43	7.0026E-21	24.00	28.16	24.00	28.16	V-C	3.8834E+04	-2.400	24.00	
1.000	1.000	52.16	0.000	0.000	Ug5_2_8_L_0						
14 D	11.14	7.7573E-21	26.00	29.68	26.00	29.68	V-C	3.8834E+04	-2.600	26.00	
1.000	1.000	55.68	0.000	0.000	Ug5_2_8_L_0						
15 D	11.83	8.3551E-21	28.00	31.16	28.00	31.16	V-C	3.8834E+04	-2.800	28.00	
1.000	1.000	59.16	0.000	0.000	Ug5_2_8_L_0						
16 D	12.52	8.7706E-21	30.00	32.58	30.00	32.58	V-C	3.8834E+04	-3.000	30.00	
1.000	1.000	62.58	0.000	0.000	Ug5_2_8_L_0						
17 D	13.19	9.0113E-21	32.00	33.96	32.00	33.96	V-C	3.8834E+04	-3.200	32.00	
1.000	1.000	65.96	0.000	0.000	Ug5_2_8_L_0						
18 D	13.86	9.0912E-21	34.00	35.30	34.00	35.30	V-C	3.8834E+04	-3.400	34.00	
1.000	1.000	69.30	0.000	0.000	Ug5_2_8_L_0						
19 D	14.52	9.0221E-21	36.00	36.59	36.00	36.59	V-C	3.8834E+04	-3.600	36.00	
1.000	1.000	72.59	0.000	0.000	Ug5_2_8_L_0						
20 D	15.17	8.8137E-21	38.00	37.84	38.00	37.84	V-C	3.8834E+04	-3.800	38.00	
1.000	1.000	75.84	0.000	0.000	Ug5_2_8_L_0						
21 D	15.81	8.4735E-21	40.00	39.05	40.00	39.05	V-C	3.8834E+04	-4.000	40.00	
1.000	1.000	79.05	0.000	0.000	Ug5_2_8_L_0						
22 D	16.45	8.0071E-21	42.00	40.23	42.00	40.23	V-C	3.8834E+04	-4.200	42.00	
1.000	1.000	82.23	0.000	0.000	Ug5_2_8_L_0						
23 D	17.08	7.4178E-21	44.00	41.38	44.00	41.38	V-C	3.8834E+04	-4.400	44.00	
1.000	1.000	85.38	0.000	0.000	Ug5_2_8_L_0						
24 D	17.70	6.7071E-21	46.00	42.49	46.00	42.49	V-C	3.8834E+04	-4.600	46.00	
1.000	1.000	88.49	0.000	0.000	Ug5_2_8_L_0						
25 D	18.32	5.8748E-21	48.00	43.58	48.00	43.58	V-C	3.8834E+04	-4.800	48.00	
1.000	1.000	91.58	0.000	0.000	Ug5_2_8_L_0						
26 D	18.93	4.9190E-21	50.00	44.65	50.00	44.65	V-C	3.8834E+04	-5.000	50.00	
1.000	1.000	94.65	0.000	0.000	Ug5_2_8_L_0						
27 D	19.54	3.8363E-21	52.00	45.69	52.00	45.69	V-C	3.8834E+04	-5.200	52.00	
1.000	1.000	97.69	0.000	0.000	Ug5_2_8_L_0						
28 D	20.14	2.6222E-21	54.00	46.71	54.00	46.71	V-C	3.8834E+04	-5.400	54.00	
1.000	1.000	100.7	0.000	0.000	Ug5_2_8_L_0						
29 D	20.74	1.2883E-21	56.00	47.70	56.00	47.70	V-C	3.8834E+04	-5.600	56.00	
1.000	1.000	103.7	0.000	0.000	Ug5_2_8_L_0						
30 D	21.34	-8.5041E-23	58.00	48.69	58.00	48.69	V-C	3.8834E+04	-5.800	58.00	
1.000	1.000	106.7	0.000	0.000	Ug5_2_8_L_0						
31 D	21.93	-1.4009E-21	60.00	49.65	60.00	49.65	V-C	3.8834E+04	-6.000	60.00	
1.000	1.000	109.7	0.000	0.000	Ug5_2_8_L_0						
32 D	22.52	-2.5800E-21	62.00	50.60	62.00	50.60	V-C	3.8834E+04	-6.200	62.00	
1.000	1.000	112.6	0.000	0.000	Ug5_2_8_L_0						
33 D	23.11	-3.6124E-21	64.00	51.54	64.00	51.54	V-C	3.8834E+04	-6.400	64.00	

1.000	1.000	115.5	0.000	0.000	Ug5_2_8_L_0					
34 D	23.69	-4.5052E-21	66.00	52.47	66.00	52.47	V-C	3.8834E+04	-6.600	66.00
1.000	1.000	118.5	0.000	0.000	Ug5_2_8_L_0					
35 D	24.28	-5.2653E-21	68.00	53.38	68.00	53.38	V-C	3.8834E+04	-6.800	68.00
1.000	1.000	121.4	0.000	0.000	Ug5_2_8_L_0					
36 D	24.86	-5.8988E-21	70.00	54.28	70.00	54.28	V-C	3.8834E+04	-7.000	70.00
1.000	1.000	124.3	0.000	0.000	Ug5_2_8_L_0					
37 D	25.44	-6.4111E-21	72.00	55.18	72.00	55.18	V-C	3.8834E+04	-7.200	72.00
1.000	1.000	127.2	0.000	0.000	Ug5_2_8_L_0					
38 D	26.01	-6.8066E-21	74.00	56.07	74.00	56.07	V-C	3.8834E+04	-7.400	74.00
1.000	1.000	130.1	0.000	0.000	Ug5_2_8_L_0					
39 D	26.59	-7.1055E-21	76.00	56.95	76.00	56.95	V-C	3.8834E+04	-7.600	76.00
1.000	1.000	133.0	0.000	0.000	Ug5_2_8_L_0					
40 D	27.17	-7.3787E-21	78.00	57.83	78.00	57.83	V-C	3.8834E+04	-7.800	78.00
1.000	1.000	135.8	0.000	0.000	Ug5_2_8_L_0					
41 D	27.74	-7.6435E-21	80.00	58.70	80.00	58.70	V-C	3.8834E+04	-8.000	80.00
1.000	1.000	138.7	0.000	0.000	Ug5_2_8_L_0					
42 D	28.31	-7.8979E-21	82.00	59.56	82.00	59.56	V-C	3.8834E+04	-8.200	82.00
1.000	1.000	141.6	0.000	0.000	Ug5_2_8_L_0					
43 D	28.88	-8.1381E-21	84.00	60.42	84.00	60.42	V-C	3.8834E+04	-8.400	84.00
1.000	1.000	144.4	0.000	0.000	Ug5_2_8_L_0					
44 D	29.46	-8.3578E-21	86.00	61.28	86.00	61.28	V-C	3.8834E+04	-8.600	86.00
1.000	1.000	147.3	0.000	0.000	Ug5_2_8_L_0					
45 D	30.03	-8.5658E-21	88.00	62.13	88.00	62.13	V-C	3.8834E+04	-8.800	88.00
1.000	1.000	150.1	0.000	0.000	Ug5_2_8_L_0					
46 D	30.60	-8.8375E-21	90.00	62.98	90.00	62.98	V-C	3.8834E+04	-9.000	90.00
1.000	1.000	153.0	0.000	0.000	Ug5_2_8_L_0					
47 D	31.17	-9.2626E-21	92.00	63.83	92.00	63.83	V-C	3.8834E+04	-9.200	92.00
1.000	1.000	155.8	0.000	0.000	Ug5_2_8_L_0					
48 D	31.73	-9.9280E-21	94.00	64.67	94.00	64.67	V-C	3.8834E+04	-9.400	94.00
1.000	1.000	158.7	0.000	0.000	Ug5_2_8_L_0					
49 D	32.30	-1.0900E-20	96.00	65.51	96.00	65.51	V-C	3.8834E+04	-9.600	96.00
1.000	1.000	161.5	0.000	0.000	Ug5_2_8_L_0					
50 D	32.87	-1.2171E-20	98.00	66.36	98.00	66.36	V-C	3.8834E+04	-9.800	98.00
1.000	1.000	164.4	0.000	0.000	Ug5_2_8_L_0					
51 D	33.44	-1.3712E-20	100.00	67.20	100.00	67.20	V-C	3.8834E+04	-10.000	100.00
1.000	1.000	167.2	0.000	0.000	Ug5_2_8_L_0					
52 D	34.01	-1.5493E-20	102.0	68.03	102.0	68.03	V-C	3.8834E+04	-10.200	102.0
1.000	1.000	170.0	0.000	0.000	Ug5_2_8_L_0					
53 D	34.57	-1.7474E-20	104.0	68.87	104.0	68.87	V-C	3.8834E+04	-10.400	104.0
1.000	1.000	172.9	0.000	0.000	Ug5_2_8_L_0					
54 D	35.14	-1.9614E-20	106.0	69.71	106.0	69.71	V-C	3.8834E+04	-10.600	106.0
1.000	1.000	175.7	0.000	0.000	Ug5_2_8_L_0					
55 D	35.71	-2.1865E-20	108.0	70.55	108.0	70.55	V-C	3.8834E+04	-10.800	108.0
1.000	1.000	178.5	0.000	0.000	Ug5_2_8_L_0					
56 D	36.28	-2.4172E-20	110.0	71.39	110.0	71.39	V-C	3.8834E+04	-11.000	110.0
1.000	1.000	181.4	0.000	0.000	Ug5_2_8_L_0					
57 D	36.84	-2.6476E-20	112.0	72.22	112.0	72.22	V-C	3.8834E+04	-11.200	112.0
1.000	1.000	184.2	0.000	0.000	Ug5_2_8_L_0					
58 D	37.41	-2.8710E-20	114.0	73.06	114.0	73.06	V-C	3.8834E+04	-11.400	114.0
1.000	1.000	187.1	0.000	0.000	Ug5_2_8_L_0					
59 D	37.98	-3.0798E-20	116.0	73.90	116.0	73.90	V-C	3.8834E+04	-11.600	116.0
1.000	1.000	189.9	0.000	0.000	Ug5_2_8_L_0					
60 D	38.55	-3.2694E-20	118.0	74.74	118.0	74.74	V-C	3.8834E+04	-11.800	118.0
1.000	1.000	192.7	0.000	0.000	Ug5_2_8_L_0					
61 D	19.56	-3.4480E-20	120.0	75.57	120.0	75.57	V-C	3.8834E+04	-12.000	120.0
1.000	1.000	195.6	0.000	0.000	Ug5_2_8_L_0					





MIN UN=-.1933E-16 IEQ= 1 NODE 1 DOF 1 Y-DISPL.F  
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 2 RNORM = 0.000 RMNORM= 0.000  
RINORM=0.6192E+05 RIMNOR=0.9928E-28  
RENORM= 10.80 REMNOR=0.5480E-23 RATIO =0.1321E-01 TOLER =0.1000E-03 NOT CONVERGED  
RFMAX = 38.03 RMMAX =0.2216E-14  
RTSMAL=0.1000E-03 RMSMAL=0.1000E-19  
RDT =0.6192E+05 RDR =0.1000E-19  
RATIOT=0.1321E-01 RATIO= 0.000  
MAX UN= 2.156 IEQ= 3 NODE 2 DOF 1 Y-DISPL.F  
MIN UN=-.7617E-11 IEQ= 1 NODE 1 DOF 1 Y-DISPL.F  
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 3 RNORM = 0.000 RMNORM= 0.000  
RINORM=0.6192E+05 RIMNOR=0.9928E-28  
RENORM= 6.649 REMNOR=0.3586E-23 RATIO =0.1036E-01 TOLER =0.1000E-03 NOT CONVERGED  
RFMAX = 38.03 RMMAX =0.2216E-14  
RTSMAL=0.1000E-03 RMSMAL=0.1000E-19  
RDT =0.6192E+05 RDR =0.1000E-19  
RATIOT=0.1036E-01 RATIO= 0.000  
MAX UN= 2.044 IEQ= 13 NODE 7 DOF 1 Y-DISPL.F  
MIN UN=-.1113E-10 IEQ= 3 NODE 2 DOF 1 Y-DISPL.F  
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 4 RNORM = 0.000 RMNORM= 0.000  
RINORM=0.6192E+05 RIMNOR=0.9928E-28  
RENORM=0.4599 REMNOR=0.3502E-23 RATIO =0.2725E-02 TOLER =0.1000E-03 NOT CONVERGED  
RFMAX = 38.03 RMMAX =0.2216E-14  
RTSMAL=0.1000E-03 RMSMAL=0.1000E-19  
RDT =0.6192E+05 RDR =0.1000E-19  
RATIOT=0.2725E-02 RATIO= 0.000  
MAX UN=0.6780 IEQ= 21 NODE 11 DOF 1 Y-DISPL.F  
MIN UN=-.1727E-10 IEQ= 7 NODE 4 DOF 1 Y-DISPL.F  
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 5 RNORM = 0.000 RMNORM= 0.000  
RINORM=0.6192E+05 RIMNOR=0.9928E-28  
RENORM=0.1467E-01 REMNOR=0.5758E-23 RATIO =0.4867E-03 TOLER =0.1000E-03 NOT CONVERGED  
RFMAX = 38.03 RMMAX =0.2216E-14  
RTSMAL=0.1000E-03 RMSMAL=0.1000E-19  
RDT =0.6192E+05 RDR =0.1000E-19  
RATIOT=0.4867E-03 RATIO= 0.000  
MAX UN=0.1211 IEQ= 23 NODE 12 DOF 1 Y-DISPL.F  
MIN UN=-.3126E-10 IEQ= 3 NODE 2 DOF 1 Y-DISPL.F  
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 6 RNORM = 0.000 RMNORM= 0.000  
RINORM=0.6192E+05 RIMNOR=0.9928E-28  
RENORM=0.7640E-21 REMNOR=0.3944E-23 RATIO =0.1111E-12 TOLER =0.1000E-03 CONVERGED !  
RFMAX = 38.03 RMMAX =0.2216E-14  
RTSMAL=0.1000E-03 RMSMAL=0.1000E-19  
RDT =0.6192E+05 RDR =0.1000E-19  
RATIOT=0.1111E-12 RATIO= 0.000  
MAX UN=0.1300E-10 IEQ= 13 NODE 7 DOF 1 Y-DISPL.F  
MIN UN=-.1192E-10 IEQ= 11 NODE 6 DOF 1 Y-DISPL.F  
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

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|                PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
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New Project
SOLUTION REACHED USING      6 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   2   ( AT TIME  2.000   )

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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	3.0424251E-04	-1.0107895E-04	
2	2.8402672E-04	-1.0107895E-04	
3	2.6381349E-04	-1.0104054E-04	
4	2.4362089E-04	-1.0084621E-04	
5	2.2349871E-04	-1.0029621E-04	
6	2.0354511E-04	-9.9105770E-05	
7	1.8392387E-04	-9.6903295E-05	
8	1.6487107E-04	-9.3391614E-05	
9	1.4665857E-04	-8.8509764E-05	
10	1.2954695E-04	-8.2431120E-05	
11	1.1374615E-04	-7.5452043E-05	
12	9.9405522E-05	-6.7882130E-05	
13	8.6611175E-05	-6.0044129E-05	
14	7.5385689E-05	-5.2238848E-05	
15	6.5697620E-05	-4.4703811E-05	
16	5.7474570E-05	-3.7612699E-05	
17	5.0614948E-05	-3.1084984E-05	
18	4.4998013E-05	-2.5195189E-05	
19	4.0491825E-05	-1.9981094E-05	
20	3.6959943E-05	-1.5451477E-05	
21	3.4266516E-05	-1.1592828E-05	
22	3.2280170E-05	-8.3740176E-06	
23	3.0877268E-05	-5.7498185E-06	
24	2.9944280E-05	-3.6650658E-06	
25	2.9379324E-05	-2.0590747E-06	
26	2.9092913E-05	-8.6914145E-07	
27	2.9008065E-05	-3.3250295E-08	
28	2.9059966E-05	5.0793127E-07	
29	2.9195271E-05	8.0960866E-07	
30	2.9371187E-05	9.2195291E-07	
31	2.9554404E-05	8.8957172E-07	
32	2.9719956E-05	7.5130463E-07	
33	2.9850073E-05	5.4025800E-07	
34	2.9933047E-05	2.8402644E-07	
35	2.9962166E-05	5.0313846E-09	
36	2.9934719E-05	-2.7905993E-07	
37	2.9851101E-05	-5.5477430E-07	
38	2.9714023E-05	-8.1228972E-07	
39	2.9527837E-05	-1.0450170E-06	
40	2.9297918E-05	-1.2492255E-06	
41	2.9030130E-05	-1.4236946E-06	
42	2.8730367E-05	-1.5692610E-06	
43	2.8404217E-05	-1.6879511E-06	
44	2.8056810E-05	-1.7822866E-06	
45	2.7692741E-05	-1.8550727E-06	
46	2.7316025E-05	-1.9092307E-06	
47	2.6930097E-05	-1.9476651E-06	
48	2.6537821E-05	-1.9731667E-06	
49	2.6141519E-05	-1.9883423E-06	
50	2.5743016E-05	-1.9955671E-06	
51	2.5343683E-05	-1.9969553E-06	
52	2.4944490E-05	-1.9943451E-06	
53	2.4546118E-05	-1.9892943E-06	
54	2.4148870E-05	-1.9830817E-06	
55	2.3752895E-05	-1.9767156E-06	
56	2.3358144E-05	-1.9709420E-06	
57	2.2964446E-05	-1.9662541E-06	
58	2.2571554E-05	-1.9629015E-06	
59	2.2179195E-05	-1.9608966E-06	
60	2.1787120E-05	-1.9600197E-06	
61	2.1395123E-05	-1.9598214E-06	



1.000	1.000	108.7	0.000	0.000	Ug5_2_8_L_0					
34 D	22.31	-2.9933E-05	83.97	48.44	83.97	53.90	UL-RL	1.8257E+05	-6.600	63.13
1.000	1.000	111.6	0.000	0.000	Ug5_2_8_L_0					
35 D	22.89	-2.9962E-05	86.40	49.39	86.40	54.86	UL-RL	1.8257E+05	-6.800	65.04
1.000	1.000	114.4	0.000	0.000	Ug5_2_8_L_0					
36 D	23.46	-2.9935E-05	89.40	50.34	89.40	55.81	UL-RL	1.8257E+05	-7.000	66.96
1.000	1.000	117.3	0.000	0.000	Ug5_2_8_L_0					
37 D	24.03	-2.9851E-05	91.80	51.30	91.80	56.75	UL-RL	1.8257E+05	-7.200	68.87
1.000	1.000	120.2	0.000	0.000	Ug5_2_8_L_0					
38 D	24.61	-2.9714E-05	94.74	52.25	94.74	57.68	UL-RL	1.8257E+05	-7.400	70.78
1.000	1.000	123.0	0.000	0.000	Ug5_2_8_L_0					
39 D	25.18	-2.9528E-05	97.11	53.21	97.11	58.60	UL-RL	1.8257E+05	-7.600	72.70
1.000	1.000	125.9	0.000	0.000	Ug5_2_8_L_0					
40 D	25.76	-2.9298E-05	99.99	54.17	99.99	59.52	UL-RL	1.8257E+05	-7.800	74.61
1.000	1.000	128.8	0.000	0.000	Ug5_2_8_L_0					
41 D	26.33	-2.9030E-05	102.8	55.13	102.8	60.43	UL-RL	1.8257E+05	-8.000	76.52
1.000	1.000	131.7	0.000	0.000	Ug5_2_8_L_0					
42 D	26.91	-2.8730E-05	105.2	56.10	105.2	61.34	UL-RL	1.8257E+05	-8.200	78.43
1.000	1.000	134.5	0.000	0.000	Ug5_2_8_L_0					
43 D	27.48	-2.8404E-05	108.0	57.06	108.0	62.25	UL-RL	1.8257E+05	-8.400	80.35
1.000	1.000	137.4	0.000	0.000	Ug5_2_8_L_0					
44 D	28.06	-2.8057E-05	110.3	58.02	110.3	63.15	UL-RL	1.8257E+05	-8.600	82.26
1.000	1.000	140.3	0.000	0.000	Ug5_2_8_L_0					
45 D	28.63	-2.7693E-05	113.0	58.99	113.0	64.04	UL-RL	1.8257E+05	-8.800	84.17
1.000	1.000	143.2	0.000	0.000	Ug5_2_8_L_0					
46 D	29.21	-2.7316E-05	115.3	59.95	115.3	64.93	UL-RL	1.8257E+05	-9.000	86.09
1.000	1.000	146.0	0.000	0.000	Ug5_2_8_L_0					
47 D	29.78	-2.6930E-05	118.0	60.91	118.0	65.83	UL-RL	1.8257E+05	-9.200	88.00
1.000	1.000	148.9	0.000	0.000	Ug5_2_8_L_0					
48 D	30.36	-2.6538E-05	120.3	61.87	120.3	66.71	UL-RL	1.8257E+05	-9.400	89.91
1.000	1.000	151.8	0.000	0.000	Ug5_2_8_L_0					
49 D	30.93	-2.6142E-05	123.0	62.83	123.0	67.60	UL-RL	1.8257E+05	-9.600	91.83
1.000	1.000	154.7	0.000	0.000	Ug5_2_8_L_0					
50 D	31.50	-2.5743E-05	125.3	63.79	125.3	68.49	UL-RL	1.8257E+05	-9.800	93.74
1.000	1.000	157.5	0.000	0.000	Ug5_2_8_L_0					
51 D	32.08	-2.5344E-05	127.9	64.74	127.9	69.37	UL-RL	1.8257E+05	-10.00	95.65
1.000	1.000	160.4	0.000	0.000	Ug5_2_8_L_0					
52 D	32.65	-2.4944E-05	130.2	65.70	130.2	70.25	UL-RL	1.8257E+05	-10.20	97.57
1.000	1.000	163.3	0.000	0.000	Ug5_2_8_L_0					
53 D	33.23	-2.4546E-05	132.8	66.65	132.8	71.13	UL-RL	1.8257E+05	-10.40	99.48
1.000	1.000	166.1	0.000	0.000	Ug5_2_8_L_0					
54 D	33.80	-2.4149E-05	135.4	67.61	135.4	72.02	UL-RL	1.8257E+05	-10.60	101.4
1.000	1.000	169.0	0.000	0.000	Ug5_2_8_L_0					
55 D	34.37	-2.3753E-05	137.7	68.56	137.7	72.90	UL-RL	1.8257E+05	-10.80	103.3
1.000	1.000	171.9	0.000	0.000	Ug5_2_8_L_0					
56 D	34.95	-2.3358E-05	140.3	69.51	140.3	73.78	UL-RL	1.8257E+05	-11.00	105.2
1.000	1.000	174.7	0.000	0.000	Ug5_2_8_L_0					
57 D	35.52	-2.2964E-05	142.5	70.47	142.5	74.66	UL-RL	1.8257E+05	-11.20	107.1
1.000	1.000	177.6	0.000	0.000	Ug5_2_8_L_0					
58 D	36.09	-2.2572E-05	145.1	71.42	145.1	75.54	UL-RL	1.8257E+05	-11.40	109.0
1.000	1.000	180.5	0.000	0.000	Ug5_2_8_L_0					
59 D	36.67	-2.2179E-05	147.3	72.37	147.3	76.42	UL-RL	1.8257E+05	-11.60	111.0
1.000	1.000	183.3	0.000	0.000	Ug5_2_8_L_0					
60 D	37.24	-2.1787E-05	149.8	73.32	149.8	77.30	UL-RL	1.8257E+05	-11.80	112.9
1.000	1.000	186.2	0.000	0.000	Ug5_2_8_L_0					
61 D	18.91	-2.1395E-05	152.0	74.28	152.0	78.18	UL-RL	1.8257E+05	-12.00	114.8
1.000	1.000	189.1	0.000	0.000	Ug5_2_8_L_0					

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|                PARATIEPLUS(TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION *Build date:Jul 11, 2017*                |
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|                                                                                                                                            |
|                NewProject.BaseDesignSection_28.A2M2R1_1787                                                                              |
|                Exe Time :24 May 2018      18:23:41                                                                              |
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New Project

STRESS RESULTS FOR GROUP NO. 2

0\_R  
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 61  
CURRENT TIME IS 2.0000

HARDENING 2D SOIL ELEMENT

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

EL * FACTOR	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
1	0.000	--	--	--	--	--	REMOVED	--	0.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
2	0.000	--	--	--	--	--	REMOVED	--	-0.2000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
3	0.000	--	--	--	--	--	REMOVED	--	-0.4000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
4	0.000	--	--	--	--	--	REMOVED	--	-0.6000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
5	0.000	--	--	--	--	--	REMOVED	--	-0.8000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
6 D	0.000	2.0355E-04	0.000	0.000	10.00	15.90	PASSIVE	0.000	-1.000	0.000	
1.000	1.000	0.000	0.000	0.000	Ug5_2_8_L_0						
7 D	2.169	1.8392E-04	1.913	8.758	12.00	17.85	PASSIVE	0.000	-1.200	2.087	
1.000	1.000	10.84	0.000	0.000	Ug5_2_8_L_0						
8 D	4.338	1.6487E-04	3.826	17.52	14.00	19.72	PASSIVE	0.000	-1.400	4.174	
1.000	1.000	21.69	0.000	0.000	Ug5_2_8_L_0						
9 D	6.481	1.4666E-04	5.739	26.14	16.00	26.14	V-C	3.8834E+04	-1.600	6.261	
1.000	1.000	32.40	0.000	0.000	Ug5_2_8_L_0						
10 D	7.119	1.2955E-04	7.652	27.25	18.00	27.25	V-C	3.8834E+04	-1.800	8.348	
1.000	1.000	35.60	0.000	0.000	Ug5_2_8_L_0						
11 D	7.754	1.1375E-04	9.565	28.34	20.00	28.34	V-C	3.8834E+04	-2.000	10.43	
1.000	1.000	38.77	0.000	0.000	Ug5_2_8_L_0						
12 D	8.388	9.9406E-05	11.48	29.42	22.00	29.42	V-C	3.8834E+04	-2.200	12.52	
1.000	1.000	41.94	0.000	0.000	Ug5_2_8_L_0						
13 D	9.023	8.6611E-05	13.39	30.51	24.00	30.51	V-C	3.8834E+04	-2.400	14.61	
1.000	1.000	45.12	0.000	0.000	Ug5_2_8_L_0						
14 D	9.659	7.5386E-05	15.30	31.60	26.00	31.60	V-C	3.8834E+04	-2.600	16.70	
1.000	1.000	48.30	0.000	0.000	Ug5_2_8_L_0						
15 D	10.30	6.5698E-05	17.22	32.70	28.00	32.70	V-C	3.8834E+04	-2.800	18.78	
1.000	1.000	51.48	0.000	0.000	Ug5_2_8_L_0						
16 D	10.94	5.7475E-05	19.13	33.81	30.00	33.81	V-C	3.8834E+04	-3.000	20.87	
1.000	1.000	54.68	0.000	0.000	Ug5_2_8_L_0						
17 D	11.58	5.0615E-05	21.04	34.92	32.00	34.92	V-C	3.8834E+04	-3.200	22.96	
1.000	1.000	57.88	0.000	0.000	Ug5_2_8_L_0						
18 D	12.22	4.4998E-05	22.96	36.03	34.00	36.03	V-C	3.8834E+04	-3.400	25.04	
1.000	1.000	61.08	0.000	0.000	Ug5_2_8_L_0						
19 D	12.86	4.0492E-05	24.87	37.15	36.00	37.15	V-C	3.8834E+04	-3.600	27.13	
1.000	1.000	64.28	0.000	0.000	Ug5_2_8_L_0						
20 D	13.49	3.6960E-05	26.78	38.26	38.00	38.26	V-C	3.8834E+04	-3.800	29.22	
1.000	1.000	67.47	0.000	0.000	Ug5_2_8_L_0						
21 D	14.12	3.4267E-05	28.70	39.29	40.00	39.40	UL-RL	1.1650E+05	-4.000	31.30	
1.000	1.000	70.59	0.000	0.000	Ug5_2_8_L_0						
22 D	14.73	3.2280E-05	30.61	40.28	42.00	40.55	UL-RL	1.1650E+05	-4.200	33.39	
1.000	1.000	73.67	0.000	0.000	Ug5_2_8_L_0						
23 D	15.35	3.0877E-05	32.52	41.29	44.00	41.68	UL-RL	1.1650E+05	-4.400	35.48	
1.000	1.000	76.77	0.000	0.000	Ug5_2_8_L_0						
24 D	15.98	2.9944E-05	34.43	42.33	46.00	42.77	UL-RL	1.1650E+05	-4.600	37.57	
1.000	1.000	79.89	0.000	0.000	Ug5_2_8_L_0						
25 D	16.60	2.9379E-05	36.35	43.37	48.00	43.84	UL-RL	1.1650E+05	-4.800	39.65	
1.000	1.000	83.02	0.000	0.000	Ug5_2_8_L_0						
26 D	17.23	2.9093E-05	38.26	44.42	50.00	44.89	UL-RL	1.1650E+05	-5.000	41.74	
1.000	1.000	86.16	0.000	0.000	Ug5_2_8_L_0						
27 D	17.86	2.9008E-05	40.17	45.47	52.00	45.91	UL-RL	1.1650E+05	-5.200	43.83	
1.000	1.000	89.29	0.000	0.000	Ug5_2_8_L_0						
28 D	18.48	2.9060E-05	42.09	46.51	54.00	46.92	UL-RL	1.1650E+05	-5.400	45.91	
1.000	1.000	92.42	0.000	0.000	Ug5_2_8_L_0						
29 D	19.11	2.9195E-05	44.00	47.53	56.00	47.90	UL-RL	1.1650E+05	-5.600	48.00	
1.000	1.000	95.53	0.000	0.000	Ug5_2_8_L_0						
30 D	19.73	2.9371E-05	45.91	48.55	58.00	48.87	UL-RL	1.1650E+05	-5.800	50.09	
1.000	1.000	98.64	0.000	0.000	Ug5_2_8_L_0						
31 D	20.34	2.9554E-05	47.83	49.55	60.00	49.82	UL-RL	1.1650E+05	-6.000	52.17	
1.000	1.000	101.7	0.000	0.000	Ug5_2_8_L_0						
32 D	20.96	2.9720E-05	49.74	50.53	62.00	50.75	UL-RL	1.1650E+05	-6.200	54.26	
1.000	1.000	104.8	0.000	0.000	Ug5_2_8_L_0						
33 D	21.57	2.9850E-05	51.65	51.50	64.00	51.67	UL-RL	1.1650E+05	-6.400	56.35	

1.000	1.000	107.8	0.000	0.000	Ug5_2_8_L_0					
34 D	22.18	2.9933E-05	53.57	52.45	66.00	52.58	UL-RL	1.1650E+05	-6.600	58.43
1.000	1.000	110.9	0.000	0.000	Ug5_2_8_L_0					
35 D	22.78	2.9962E-05	55.48	53.38	68.00	53.48	UL-RL	1.1650E+05	-6.800	60.52
1.000	1.000	113.9	0.000	0.000	Ug5_2_8_L_0					
36 D	23.38	2.9935E-05	57.39	54.29	70.00	54.37	UL-RL	1.1650E+05	-7.000	62.61
1.000	1.000	116.9	0.000	0.000	Ug5_2_8_L_0					
37 D	23.98	2.9851E-05	59.30	55.19	72.00	55.25	UL-RL	1.1650E+05	-7.200	64.70
1.000	1.000	119.9	0.000	0.000	Ug5_2_8_L_0					
38 D	24.57	2.9714E-05	61.22	56.08	74.00	56.12	UL-RL	1.1650E+05	-7.400	66.78
1.000	1.000	122.9	0.000	0.000	Ug5_2_8_L_0					
39 D	25.17	2.9528E-05	63.13	56.96	76.00	56.98	UL-RL	1.1650E+05	-7.600	68.87
1.000	1.000	125.8	0.000	0.000	Ug5_2_8_L_0					
40 D	25.76	2.9298E-05	65.04	57.82	78.00	57.84	UL-RL	1.1650E+05	-7.800	70.96
1.000	1.000	128.8	0.000	0.000	Ug5_2_8_L_0					
41 D	26.34	2.9030E-05	66.96	58.67	80.00	58.70	UL-RL	1.1650E+05	-8.000	73.04
1.000	1.000	131.7	0.000	0.000	Ug5_2_8_L_0					
42 D	26.92	2.8730E-05	68.87	59.48	82.00	59.56	UL-RL	1.1650E+05	-8.200	75.13
1.000	1.000	134.6	0.000	0.000	Ug5_2_8_L_0					
43 D	27.50	2.8404E-05	70.78	60.28	84.00	60.42	UL-RL	1.1650E+05	-8.400	77.22
1.000	1.000	137.5	0.000	0.000	Ug5_2_8_L_0					
44 D	28.08	2.8057E-05	72.70	61.08	86.00	61.28	UL-RL	1.1650E+05	-8.600	79.30
1.000	1.000	140.4	0.000	0.000	Ug5_2_8_L_0					
45 D	28.65	2.7693E-05	74.61	61.87	88.00	62.13	UL-RL	1.1650E+05	-8.800	81.39
1.000	1.000	143.3	0.000	0.000	Ug5_2_8_L_0					
46 D	29.23	2.7316E-05	76.52	62.65	90.00	62.98	UL-RL	1.1650E+05	-9.000	83.48
1.000	1.000	146.1	0.000	0.000	Ug5_2_8_L_0					
47 D	29.80	2.6930E-05	78.43	63.44	92.00	63.83	UL-RL	1.1650E+05	-9.200	85.57
1.000	1.000	149.0	0.000	0.000	Ug5_2_8_L_0					
48 D	30.37	2.6538E-05	80.35	64.22	94.00	64.67	UL-RL	1.1650E+05	-9.400	87.65
1.000	1.000	151.9	0.000	0.000	Ug5_2_8_L_0					
49 D	30.95	2.6142E-05	82.26	64.99	96.00	65.51	UL-RL	1.1650E+05	-9.600	89.74
1.000	1.000	154.7	0.000	0.000	Ug5_2_8_L_0					
50 D	31.52	2.5743E-05	84.17	65.77	98.00	66.36	UL-RL	1.1650E+05	-9.800	91.83
1.000	1.000	157.6	0.000	0.000	Ug5_2_8_L_0					
51 D	32.09	2.5344E-05	86.09	66.54	100.00	67.20	UL-RL	1.1650E+05	-10.000	93.91
1.000	1.000	160.5	0.000	0.000	Ug5_2_8_L_0					
52 D	32.66	2.4944E-05	88.00	67.31	102.00	68.03	UL-RL	1.1650E+05	-10.200	96.00
1.000	1.000	163.3	0.000	0.000	Ug5_2_8_L_0					
53 D	33.23	2.4546E-05	89.91	68.08	104.00	68.87	UL-RL	1.1650E+05	-10.400	98.09
1.000	1.000	166.2	0.000	0.000	Ug5_2_8_L_0					
54 D	33.81	2.4149E-05	91.83	68.85	106.00	69.71	UL-RL	1.1650E+05	-10.600	100.2
1.000	1.000	169.0	0.000	0.000	Ug5_2_8_L_0					
55 D	34.38	2.3753E-05	93.74	69.62	108.00	70.55	UL-RL	1.1650E+05	-10.800	102.3
1.000	1.000	171.9	0.000	0.000	Ug5_2_8_L_0					
56 D	34.95	2.3358E-05	95.65	70.40	110.00	71.39	UL-RL	1.1650E+05	-11.000	104.3
1.000	1.000	174.7	0.000	0.000	Ug5_2_8_L_0					
57 D	35.52	2.2964E-05	97.57	71.17	112.00	72.22	UL-RL	1.1650E+05	-11.200	106.4
1.000	1.000	177.6	0.000	0.000	Ug5_2_8_L_0					
58 D	36.09	2.2572E-05	99.48	71.94	114.00	73.06	UL-RL	1.1650E+05	-11.400	108.5
1.000	1.000	180.5	0.000	0.000	Ug5_2_8_L_0					
59 D	36.66	2.2179E-05	101.4	72.71	116.00	73.90	UL-RL	1.1650E+05	-11.600	110.6
1.000	1.000	183.3	0.000	0.000	Ug5_2_8_L_0					
60 D	37.23	2.1787E-05	103.3	73.48	118.00	74.74	UL-RL	1.1650E+05	-11.800	112.7
1.000	1.000	186.2	0.000	0.000	Ug5_2_8_L_0					
61 D	18.90	2.1395E-05	105.2	74.25	120.00	75.57	UL-RL	1.1650E+05	-12.000	114.8
1.000	1.000	189.0	0.000	0.000	Ug5_2_8_L_0					





MIN UN=-.4743E-01 IEQ= 11 NODE 6 DOF 1 Y-DISPL.F  
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 2 RNORM = 0.000 RMNORM= 0.000  
RINORM=0.5581E+05 RIMNOR= 2188.  
RENORM= 81.39 REMNOR=0.5748E-22 RATIO =0.3819E-01 TOLER =0.1000E-03 NOT CONVERGED  
RFMAX = 36.68 RMMAX = 10.79  
RTSMAL=0.1000E-03 RMSMAL=0.1000E-03  
RDT =0.5581E+05 RDR = 2188.  
RATIOT=0.3819E-01 RATIOOR= 0.000  
MAX UN= 2.814 IEQ= 21 NODE 11 DOF 1 Y-DISPL.F  
MIN UN=-.3434E-02 IEQ= 3 NODE 2 DOF 1 Y-DISPL.F  
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 3 RNORM = 0.000 RMNORM= 0.000  
RINORM=0.5581E+05 RIMNOR= 2188.  
RENORM= 264.3 REMNOR=0.2211E-20 RATIO =0.6882E-01 TOLER =0.1000E-03 NOT CONVERGED  
RFMAX = 36.68 RMMAX = 10.79  
RTSMAL=0.1000E-03 RMSMAL=0.1000E-03  
RDT =0.5581E+05 RDR = 2188.  
RATIOT=0.6882E-01 RATIOOR= 0.000  
MAX UN= 10.78 IEQ= 33 NODE 17 DOF 1 Y-DISPL.F  
MIN UN=-.2229E-09 IEQ= 27 NODE 14 DOF 1 Y-DISPL.F  
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 4 RNORM = 0.000 RMNORM= 0.000  
RINORM=0.5581E+05 RIMNOR= 2188.  
RENORM= 50.68 REMNOR=0.5021E-20 RATIO =0.3014E-01 TOLER =0.1000E-03 NOT CONVERGED  
RFMAX = 36.68 RMMAX = 10.79  
RTSMAL=0.1000E-03 RMSMAL=0.1000E-03  
RDT =0.5581E+05 RDR = 2188.  
RATIOT=0.3014E-01 RATIOOR= 0.000  
MAX UN= 5.160 IEQ= 47 NODE 24 DOF 1 Y-DISPL.F  
MIN UN=-.3592E-09 IEQ= 13 NODE 7 DOF 1 Y-DISPL.F  
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 5 RNORM = 0.000 RMNORM= 0.000  
RINORM=0.5581E+05 RIMNOR= 2188.  
RENORM= 1.322 REMNOR=0.1593E-20 RATIO =0.4867E-02 TOLER =0.1000E-03 NOT CONVERGED  
RFMAX = 36.68 RMMAX = 10.79  
RTSMAL=0.1000E-03 RMSMAL=0.1000E-03  
RDT =0.5581E+05 RDR = 2188.  
RATIOT=0.4867E-02 RATIOOR= 0.000  
MAX UN= 1.090 IEQ= 55 NODE 28 DOF 1 Y-DISPL.F  
MIN UN=-.1477E-09 IEQ= 25 NODE 13 DOF 1 Y-DISPL.F  
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 6 RNORM = 0.000 RMNORM= 0.000  
RINORM=0.5581E+05 RIMNOR= 2188.  
RENORM=0.6619E-18 REMNOR=0.1646E-20 RATIO =0.3444E-11 TOLER =0.1000E-03 CONVERGED !  
RFMAX = 36.68 RMMAX = 10.79  
RTSMAL=0.1000E-03 RMSMAL=0.1000E-03  
RDT =0.5581E+05 RDR = 2188.  
RATIOT=0.3444E-11 RATIOOR= 0.000  
MAX UN=0.3338E-09 IEQ= 5 NODE 3 DOF 1 Y-DISPL.F  
MIN UN=-.4346E-09 IEQ= 3 NODE 2 DOF 1 Y-DISPL.F  
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
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New Project
SOLUTION REACHED USING      6 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   3   ( AT TIME   3.000   )

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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	4.9560193E-03	-1.0912245E-03	
2	4.7377744E-03	-1.0912245E-03	
3	4.5195320E-03	-1.0911870E-03	
4	4.3013097E-03	-1.0909974E-03	
5	4.0831562E-03	-1.0904606E-03	
6	3.8651672E-03	-1.0892985E-03	
7	3.6475027E-03	-1.0871480E-03	
8	3.4304036E-03	-1.0835637E-03	
9	3.2142077E-03	-1.0780209E-03	
10	2.9993660E-03	-1.0699160E-03	
11	2.7864577E-03	-1.0585664E-03	
12	2.5762064E-03	-1.0432121E-03	
13	2.3694855E-03	-1.0231684E-03	
14	2.1672820E-03	-9.9798084E-04	
15	1.9706510E-03	-9.6742436E-04	
16	1.7806698E-03	-9.3150395E-04	
17	1.5983905E-03	-8.9045415E-04	
18	1.4247982E-03	-8.4473992E-04	
19	1.2607592E-03	-7.9505537E-04	
20	1.1069812E-03	-7.4229299E-04	
21	9.6398567E-04	-6.8738676E-04	
22	8.3211332E-04	-6.3118966E-04	
23	7.1154384E-04	-5.7448201E-04	
24	6.0230699E-04	-5.179722E-04	
25	5.0429585E-04	-4.6232908E-04	
26	4.1727817E-04	-4.0813875E-04	
27	3.4090646E-04	-3.5596224E-04	
28	2.7472490E-04	-3.0631718E-04	
29	2.1817827E-04	-2.5969189E-04	
30	1.7061619E-04	-2.1654588E-04	
31	1.3130423E-04	-1.7723520E-04	
32	9.9453532E-05	-1.4195544E-04	
33	7.4249163E-05	-1.1077155E-04	
34	5.4874843E-05	-8.3638689E-05	
35	4.0533208E-05	-6.0413012E-05	
36	3.0464043E-05	-4.0871255E-05	
37	2.3957705E-05	-2.4734971E-05	
38	2.0363964E-05	-1.1690582E-05	
39	1.9097439E-05	-1.4066819E-06	
40	1.9639662E-05	6.4527844E-06	
41	2.1538944E-05	1.2218123E-05	
42	2.4408426E-05	1.6206184E-05	
43	2.7922798E-05	1.8714949E-05	
44	3.1814148E-05	2.0019848E-05	
45	3.5867146E-05	2.0371173E-05	
46	3.9913947E-05	1.9992747E-05	
47	4.3828728E-05	1.9081572E-05	
48	4.7522433E-05	1.7808251E-05	
49	5.0937563E-05	1.6317947E-05	
50	5.4043202E-05	1.4731735E-05	
51	5.6830415E-05	1.3148131E-05	
52	5.9307865E-05	1.1644767E-05	
53	6.1497533E-05	1.0280228E-05	
54	6.3431808E-05	9.0951450E-06	
55	6.5149199E-05	8.1141875E-06	
56	6.6691733E-05	7.3469847E-06	
57	6.8101956E-05	6.7892280E-06	
58	6.9420225E-05	6.4234796E-06	
59	7.0682150E-05	6.2197631E-06	
60	7.1916124E-05	6.1359559E-06	
61	7.3140984E-05	6.1180136E-06	

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|                PARATIEPLUS(TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION *Build date:Jul 11, 2017*                |
|                                                                                                                                            |
|                                                                                                                                            |
|                                                                                                                                            |
|                NewProject.BaseDesignSection_28.A2M2R1_1787                                                                              |
|                Exe Time :24 May 2018      18:23:41                                                                              |
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New Project

STRESS RESULTS FOR GROUP NO. 1

0\_L  
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 61  
CURRENT TIME IS 3.0000

HARDENING 2D SOIL ELEMENT

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

EL * FACTOR	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
1 D	0.000	-4.9560E-03	0.000	0.000	0.000	0.000	ACTIVE	0.000	0.000	0.000	
1.000	1.000	0.000	0.000	0.000	Ug5_2_8_L_0						
2 D	0.5123	-4.7378E-03	2.330	0.7433	2.330	5.007	ACTIVE	0.000	-0.2000	1.818	
1.000	1.000	2.561	0.000	0.000	Ug5_2_8_L_0						
3 D	1.055	-4.5195E-03	5.142	1.640	5.142	8.815	ACTIVE	0.000	-0.4000	3.636	
1.000	1.000	5.277	0.000	0.000	Ug5_2_8_L_0						
4 D	1.611	-4.3013E-03	8.153	2.601	8.153	11.65	ACTIVE	0.000	-0.6000	5.455	
1.000	1.000	8.055	0.000	0.000	Ug5_2_8_L_0						
5 D	2.192	-4.0832E-03	11.56	3.686	11.56	14.00	ACTIVE	0.000	-0.8000	7.273	
1.000	1.000	10.96	0.000	0.000	Ug5_2_8_L_0						
6 D	2.772	-3.8652E-03	14.95	4.771	14.95	16.11	ACTIVE	0.000	-1.000	9.091	
1.000	1.000	13.86	0.000	0.000	Ug5_2_8_L_0						
7 D	3.317	-3.6475E-03	17.80	5.678	17.80	18.11	ACTIVE	0.000	-1.200	10.91	
1.000	1.000	16.59	0.000	0.000	Ug5_2_8_L_0						
8 D	3.855	-3.4304E-03	20.53	6.548	20.53	20.02	ACTIVE	0.000	-1.400	12.73	
1.000	1.000	19.28	0.000	0.000	Ug5_2_8_L_0						
9 D	4.400	-3.2142E-03	23.36	7.453	23.36	21.87	ACTIVE	0.000	-1.600	14.55	
1.000	1.000	22.00	0.000	0.000	Ug5_2_8_L_0						
10 D	4.929	-2.9994E-03	25.96	8.281	25.96	23.65	ACTIVE	0.000	-1.800	16.36	
1.000	1.000	24.64	0.000	0.000	Ug5_2_8_L_0						
11 D	5.466	-2.7865E-03	28.68	9.148	28.68	25.38	ACTIVE	0.000	-2.000	18.18	
1.000	1.000	27.33	0.000	0.000	Ug5_2_8_L_0						
12 D	5.993	-2.5762E-03	31.23	9.963	31.23	27.06	ACTIVE	0.000	-2.200	20.00	
1.000	1.000	29.96	0.000	0.000	Ug5_2_8_L_0						
13 D	6.527	-2.3695E-03	33.91	10.82	33.91	28.68	ACTIVE	0.000	-2.400	21.82	
1.000	1.000	32.63	0.000	0.000	Ug5_2_8_L_0						
14 D	7.053	-2.1673E-03	36.46	11.63	36.46	30.25	ACTIVE	0.000	-2.600	23.64	
1.000	1.000	35.27	0.000	0.000	Ug5_2_8_L_0						
15 D	7.587	-1.9707E-03	39.12	12.48	39.12	31.77	ACTIVE	0.000	-2.800	25.45	
1.000	1.000	37.93	0.000	0.000	Ug5_2_8_L_0						
16 D	8.114	-1.7807E-03	41.68	13.30	41.68	33.24	ACTIVE	0.000	-3.000	27.27	
1.000	1.000	40.57	0.000	0.000	Ug5_2_8_L_0						
17 D	8.647	-1.5984E-03	44.34	14.14	44.34	34.66	ACTIVE	0.000	-3.200	29.09	
1.000	1.000	43.23	0.000	0.000	Ug5_2_8_L_0						
18 D	9.175	-1.4248E-03	46.91	14.96	46.91	36.03	ACTIVE	0.000	-3.400	30.91	
1.000	1.000	45.87	0.000	0.000	Ug5_2_8_L_0						
19 D	9.703	-1.2608E-03	49.49	15.79	49.49	37.37	ACTIVE	0.000	-3.600	32.73	
1.000	1.000	48.51	0.000	0.000	Ug5_2_8_L_0						
20 D	10.24	-1.1070E-03	52.15	16.64	52.15	38.66	ACTIVE	0.000	-3.800	34.55	
1.000	1.000	51.18	0.000	0.000	Ug5_2_8_L_0						
21 D	10.77	-9.6399E-04	54.74	17.46	54.74	39.92	ACTIVE	0.000	-4.000	36.36	
1.000	1.000	53.83	0.000	0.000	Ug5_2_8_L_0						
22 D	11.30	-8.3211E-04	57.40	18.31	57.40	41.14	ACTIVE	0.000	-4.200	38.18	
1.000	1.000	56.49	0.000	0.000	Ug5_2_8_L_0						
23 D	11.83	-7.1154E-04	59.99	19.14	59.99	42.33	ACTIVE	0.000	-4.400	40.00	
1.000	1.000	59.14	0.000	0.000	Ug5_2_8_L_0						
24 D	12.36	-6.0231E-04	62.65	19.99	62.65	43.49	ACTIVE	0.000	-4.600	41.82	
1.000	1.000	61.80	0.000	0.000	Ug5_2_8_L_0						
25 D	12.89	-5.0430E-04	65.24	20.81	65.24	44.63	ACTIVE	0.000	-4.800	43.64	
1.000	1.000	64.45	0.000	0.000	Ug5_2_8_L_0						
26 D	13.42	-4.1728E-04	67.83	21.64	67.83	45.73	ACTIVE	0.000	-5.000	45.45	
1.000	1.000	67.09	0.000	0.000	Ug5_2_8_L_0						
27 D	13.93	-3.4091E-04	70.19	22.39	70.19	46.82	ACTIVE	0.000	-5.200	47.27	
1.000	1.000	69.66	0.000	0.000	Ug5_2_8_L_0						
28 D	14.45	-2.7472E-04	72.56	23.15	72.56	47.88	ACTIVE	0.000	-5.400	49.09	
1.000	1.000	72.24	0.000	0.000	Ug5_2_8_L_0						
29 D	15.03	-2.1818E-04	74.93	24.22	74.93	48.92	UL-RL	1.0954E+05	-5.600	50.91	
1.000	1.000	75.13	0.000	0.000	Ug5_2_8_L_0						
30 D	16.64	-1.7062E-04	77.31	30.49	77.31	49.95	UL-RL	1.0954E+05	-5.800	52.73	
1.000	1.000	83.22	0.000	0.000	Ug5_2_8_L_0						
31 D	18.08	-1.3130E-04	79.69	35.84	79.69	50.96	UL-RL	1.0954E+05	-6.000	54.55	
1.000	1.000	90.38	0.000	0.000	Ug5_2_8_L_0						
32 D	19.34	-9.9454E-05	82.08	40.36	82.08	51.95	UL-RL	1.0954E+05	-6.200	56.36	
1.000	1.000	96.72	0.000	0.000	Ug5_2_8_L_0						
33 D	20.46	-7.4249E-05	84.47	44.14	84.47	52.93	UL-RL	1.0954E+05	-6.400	58.18	

1.000	1.000	102.3	0.000	0.000	Ug5_2_8_L_0					
34 D	21.45	-5.4875E-05	87.10	47.27	87.10	53.90	UL-RL	1.0954E+05	-6.600	60.00
1.000	1.000	107.3	0.000	0.000	Ug5_2_8_L_0					
35 D	22.33	-4.0533E-05	89.63	49.84	89.63	54.86	UL-RL	1.0954E+05	-6.800	61.82
1.000	1.000	111.7	0.000	0.000	Ug5_2_8_L_0					
36 D	23.12	-3.0464E-05	92.72	51.94	92.72	55.81	UL-RL	1.0954E+05	-7.000	63.64
1.000	1.000	115.6	0.000	0.000	Ug5_2_8_L_0					
37 D	23.82	-2.3958E-05	95.22	53.65	95.22	56.75	UL-RL	1.0954E+05	-7.200	65.45
1.000	1.000	119.1	0.000	0.000	Ug5_2_8_L_0					
38 D	24.46	-2.0364E-05	98.25	55.03	98.25	57.68	UL-RL	1.0954E+05	-7.400	67.27
1.000	1.000	122.3	0.000	0.000	Ug5_2_8_L_0					
39 D	25.05	-1.9097E-05	100.7	56.16	100.7	58.60	UL-RL	1.0954E+05	-7.600	69.09
1.000	1.000	125.2	0.000	0.000	Ug5_2_8_L_0					
40 D	25.60	-1.9640E-05	103.7	57.08	103.7	59.52	UL-RL	1.0954E+05	-7.800	70.91
1.000	1.000	128.0	0.000	0.000	Ug5_2_8_L_0					
41 D	26.12	-2.1539E-05	106.6	57.85	106.6	60.43	UL-RL	1.0954E+05	-8.000	72.73
1.000	1.000	130.6	0.000	0.000	Ug5_2_8_L_0					
42 D	26.61	-2.4408E-05	109.1	58.51	109.1	61.34	UL-RL	1.0954E+05	-8.200	74.55
1.000	1.000	133.1	0.000	0.000	Ug5_2_8_L_0					
43 D	27.09	-2.7923E-05	111.9	59.10	111.9	62.25	UL-RL	1.0954E+05	-8.400	76.36
1.000	1.000	135.5	0.000	0.000	Ug5_2_8_L_0					
44 D	27.57	-3.1814E-05	114.4	59.65	114.4	63.15	UL-RL	1.0954E+05	-8.600	78.18
1.000	1.000	137.8	0.000	0.000	Ug5_2_8_L_0					
45 D	28.04	-3.5867E-05	117.2	60.18	117.2	64.04	UL-RL	1.0954E+05	-8.800	80.00
1.000	1.000	140.2	0.000	0.000	Ug5_2_8_L_0					
46 D	28.50	-3.9914E-05	119.6	60.70	119.6	64.93	UL-RL	1.0954E+05	-9.000	81.82
1.000	1.000	142.5	0.000	0.000	Ug5_2_8_L_0					
47 D	28.98	-4.3829E-05	122.4	61.24	122.4	65.83	UL-RL	1.0954E+05	-9.200	83.64
1.000	1.000	144.9	0.000	0.000	Ug5_2_8_L_0					
48 D	29.45	-4.7522E-05	124.8	61.80	124.8	66.71	UL-RL	1.0954E+05	-9.400	85.45
1.000	1.000	147.3	0.000	0.000	Ug5_2_8_L_0					
49 D	29.93	-5.0938E-05	127.6	62.39	127.6	67.60	UL-RL	1.0954E+05	-9.600	87.27
1.000	1.000	149.7	0.000	0.000	Ug5_2_8_L_0					
50 D	30.42	-5.4043E-05	129.9	63.01	129.9	68.49	UL-RL	1.0954E+05	-9.800	89.09
1.000	1.000	152.1	0.000	0.000	Ug5_2_8_L_0					
51 D	30.91	-5.6830E-05	132.7	63.66	132.7	69.37	UL-RL	1.0954E+05	-10.00	90.91
1.000	1.000	154.6	0.000	0.000	Ug5_2_8_L_0					
52 D	31.42	-5.9308E-05	135.0	64.35	135.0	70.25	UL-RL	1.0954E+05	-10.20	92.73
1.000	1.000	157.1	0.000	0.000	Ug5_2_8_L_0					
53 D	31.92	-6.1498E-05	137.8	65.07	137.8	71.13	UL-RL	1.0954E+05	-10.40	94.55
1.000	1.000	159.6	0.000	0.000	Ug5_2_8_L_0					
54 D	32.44	-6.3432E-05	140.5	65.82	140.5	72.02	UL-RL	1.0954E+05	-10.60	96.36
1.000	1.000	162.2	0.000	0.000	Ug5_2_8_L_0					
55 D	32.95	-6.5149E-05	142.8	66.59	142.8	72.90	UL-RL	1.0954E+05	-10.80	98.18
1.000	1.000	164.8	0.000	0.000	Ug5_2_8_L_0					
56 D	33.47	-6.6692E-05	145.5	67.37	145.5	73.78	UL-RL	1.0954E+05	-11.00	100.00
1.000	1.000	167.4	0.000	0.000	Ug5_2_8_L_0					
57 D	34.00	-6.8102E-05	147.8	68.18	147.8	74.66	UL-RL	1.0954E+05	-11.20	101.8
1.000	1.000	170.0	0.000	0.000	Ug5_2_8_L_0					
58 D	34.53	-6.9420E-05	150.5	68.99	150.5	75.54	UL-RL	1.0954E+05	-11.40	103.6
1.000	1.000	172.6	0.000	0.000	Ug5_2_8_L_0					
59 D	35.05	-7.0682E-05	152.8	69.81	152.8	76.42	UL-RL	1.0954E+05	-11.60	105.5
1.000	1.000	175.3	0.000	0.000	Ug5_2_8_L_0					
60 D	35.58	-7.1916E-05	155.4	70.63	155.4	77.30	UL-RL	1.0954E+05	-11.80	107.3
1.000	1.000	177.9	0.000	0.000	Ug5_2_8_L_0					
61 D	18.05	-7.3141E-05	157.7	71.45	157.7	78.18	UL-RL	1.0954E+05	-12.00	109.1
1.000	1.000	180.5	0.000	0.000	Ug5_2_8_L_0					



1.000	1.000	98.98	0.000	0.000	Ug5_2_8_L_0					
34 D	20.15	5.4875E-05	41.82	50.59	66.00	52.65	UL-RL	6.9900E+04	-6.600	50.18
1.000	1.000	100.8	0.000	0.000	Ug5_2_8_L_0					
35 D	20.58	4.0533E-05	43.64	50.53	68.00	53.54	UL-RL	6.9900E+04	-6.800	52.36
1.000	1.000	102.9	0.000	0.000	Ug5_2_8_L_0					
36 D	21.06	3.0464E-05	45.45	50.76	70.00	54.41	UL-RL	6.9900E+04	-7.000	54.55
1.000	1.000	105.3	0.000	0.000	Ug5_2_8_L_0					
37 D	21.59	2.3958E-05	47.27	51.23	72.00	55.28	UL-RL	6.9900E+04	-7.200	56.73
1.000	1.000	108.0	0.000	0.000	Ug5_2_8_L_0					
38 D	22.16	2.0364E-05	49.09	51.89	74.00	56.13	UL-RL	6.9900E+04	-7.400	58.91
1.000	1.000	110.8	0.000	0.000	Ug5_2_8_L_0					
39 D	22.76	1.9097E-05	50.91	52.69	76.00	56.98	UL-RL	6.9900E+04	-7.600	61.09
1.000	1.000	113.8	0.000	0.000	Ug5_2_8_L_0					
40 D	23.37	1.9640E-05	52.73	53.60	78.00	57.84	UL-RL	6.9900E+04	-7.800	63.27
1.000	1.000	116.9	0.000	0.000	Ug5_2_8_L_0					
41 D	24.01	2.1539E-05	54.55	54.58	80.00	58.70	UL-RL	6.9900E+04	-8.000	65.45
1.000	1.000	120.0	0.000	0.000	Ug5_2_8_L_0					
42 D	24.65	2.4408E-05	56.36	55.60	82.00	59.56	UL-RL	6.9900E+04	-8.200	67.64
1.000	1.000	123.2	0.000	0.000	Ug5_2_8_L_0					
43 D	25.29	2.7923E-05	58.18	56.65	84.00	60.42	UL-RL	6.9900E+04	-8.400	69.82
1.000	1.000	126.5	0.000	0.000	Ug5_2_8_L_0					
44 D	25.94	3.1814E-05	60.00	57.72	86.00	61.28	UL-RL	6.9900E+04	-8.600	72.00
1.000	1.000	129.7	0.000	0.000	Ug5_2_8_L_0					
45 D	26.60	3.5867E-05	61.82	58.80	88.00	62.13	UL-RL	6.9900E+04	-8.800	74.18
1.000	1.000	133.0	0.000	0.000	Ug5_2_8_L_0					
46 D	27.25	3.9914E-05	63.64	59.88	90.00	62.98	UL-RL	6.9900E+04	-9.000	76.36
1.000	1.000	136.2	0.000	0.000	Ug5_2_8_L_0					
47 D	27.90	4.3829E-05	65.45	60.94	92.00	63.83	UL-RL	6.9900E+04	-9.200	78.55
1.000	1.000	139.5	0.000	0.000	Ug5_2_8_L_0					
48 D	28.54	4.7522E-05	67.27	61.99	94.00	64.67	UL-RL	6.9900E+04	-9.400	80.73
1.000	1.000	142.7	0.000	0.000	Ug5_2_8_L_0					
49 D	29.18	5.0938E-05	69.09	63.01	96.00	65.51	UL-RL	6.9900E+04	-9.600	82.91
1.000	1.000	145.9	0.000	0.000	Ug5_2_8_L_0					
50 D	29.82	5.4043E-05	70.91	64.01	98.00	66.36	UL-RL	6.9900E+04	-9.800	85.09
1.000	1.000	149.1	0.000	0.000	Ug5_2_8_L_0					
51 D	30.45	5.6830E-05	72.73	64.99	100.00	67.20	UL-RL	6.9900E+04	-10.000	87.27
1.000	1.000	152.3	0.000	0.000	Ug5_2_8_L_0					
52 D	31.08	5.9308E-05	74.55	65.94	102.00	68.03	UL-RL	6.9900E+04	-10.200	89.45
1.000	1.000	155.4	0.000	0.000	Ug5_2_8_L_0					
53 D	31.70	6.1498E-05	76.36	66.87	104.00	68.87	UL-RL	6.9900E+04	-10.400	91.64
1.000	1.000	158.5	0.000	0.000	Ug5_2_8_L_0					
54 D	32.32	6.3432E-05	78.18	67.79	106.00	69.71	UL-RL	6.9900E+04	-10.600	93.82
1.000	1.000	161.6	0.000	0.000	Ug5_2_8_L_0					
55 D	32.94	6.5149E-05	80.00	68.69	108.00	70.55	UL-RL	6.9900E+04	-10.800	96.00
1.000	1.000	164.7	0.000	0.000	Ug5_2_8_L_0					
56 D	33.55	6.6692E-05	81.82	69.57	110.00	71.39	UL-RL	6.9900E+04	-11.000	98.18
1.000	1.000	167.8	0.000	0.000	Ug5_2_8_L_0					
57 D	34.16	6.8102E-05	83.64	70.45	112.00	72.22	UL-RL	6.9900E+04	-11.200	100.4
1.000	1.000	170.8	0.000	0.000	Ug5_2_8_L_0					
58 D	34.77	6.9420E-05	85.45	71.32	114.00	73.06	UL-RL	6.9900E+04	-11.400	102.5
1.000	1.000	173.9	0.000	0.000	Ug5_2_8_L_0					
59 D	35.38	7.0682E-05	87.27	72.18	116.00	73.90	UL-RL	6.9900E+04	-11.600	104.7
1.000	1.000	176.9	0.000	0.000	Ug5_2_8_L_0					
60 D	35.99	7.1916E-05	89.09	73.04	118.00	74.74	UL-RL	6.9900E+04	-11.800	106.9
1.000	1.000	180.0	0.000	0.000	Ug5_2_8_L_0					
61 D	18.30	7.3141E-05	90.91	73.91	120.00	75.57	UL-RL	6.9900E+04	-12.000	109.1
1.000	1.000	183.0	0.000	0.000	Ug5_2_8_L_0					



MIN UN=-61.65 IEQ= 31 NODE 16 DOF 1 Y-DISPL.F  
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 2 RNORM = 5584. RMNORM= 0.000  
RINORM=0.8547E+05 RIMNOR=0.1750E+06  
RENORM= 9.771 REMNOR=0.2003E-20 RATIO =0.1069E-01 TOLER =0.1000E-03 NOT CONVERGED  
RFMAX = 72.00 RMMAX = 77.62  
RTSMAL=0.1000E-03 RMSMAL=0.1000E-03  
RDT =0.8547E+05 RDR =0.1750E+06  
RATIOT=0.1069E-01 RATIOOR= 0.000  
MAX UN= 1.353 IEQ= 57 NODE 29 DOF 1 Y-DISPL.F  
MIN UN=-.2672E-01 IEQ= 3 NODE 2 DOF 1 Y-DISPL.F  
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 3 RNORM = 5584. RMNORM= 0.000  
RINORM=0.8547E+05 RIMNOR=0.1750E+06  
RENORM=0.5429 REMNOR=0.7094E-21 RATIO =0.2520E-02 TOLER =0.1000E-03 NOT CONVERGED  
RFMAX = 72.00 RMMAX = 77.62  
RTSMAL=0.1000E-03 RMSMAL=0.1000E-03  
RDT =0.8547E+05 RDR =0.1750E+06  
RATIOT=0.2520E-02 RATIOOR= 0.000  
MAX UN=0.6248 IEQ= 35 NODE 18 DOF 1 Y-DISPL.F  
MIN UN=-.3619E-09 IEQ= 9 NODE 5 DOF 1 Y-DISPL.F  
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 4 RNORM = 5584. RMNORM= 0.000  
RINORM=0.8547E+05 RIMNOR=0.1750E+06  
RENORM=0.5189E-18 REMNOR=0.1967E-20 RATIO =0.2464E-11 TOLER =0.1000E-03 CONVERGED !  
RFMAX = 72.00 RMMAX = 77.62  
RTSMAL=0.1000E-03 RMSMAL=0.1000E-03  
RDT =0.8547E+05 RDR =0.1750E+06  
RATIOT=0.2464E-11 RATIOOR= 0.000  
MAX UN=0.2636E-09 IEQ= 5 NODE 3 DOF 1 Y-DISPL.F  
MIN UN=-.4336E-09 IEQ= 7 NODE 4 DOF 1 Y-DISPL.F  
NO. OF CONTACT CONSTRAINT VIOLATIONS 0



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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
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New Project
SOLUTION REACHED USING      4 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   4   ( AT TIME  4.000   )

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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	4.8790345E-03	-1.0820415E-03	
2	4.6626262E-03	-1.0820415E-03	
3	4.4462249E-03	-1.0819369E-03	
4	4.2298757E-03	-1.0814693E-03	
5	4.0136845E-03	-1.0802927E-03	
6	3.7978341E-03	-1.0779838E-03	
7	3.5825999E-03	-1.0740402E-03	
8	3.3683655E-03	-1.0678836E-03	
9	3.1556374E-03	-1.0588636E-03	
10	2.9450591E-03	-1.0462590E-03	
11	2.7374254E-03	-1.0292798E-03	
12	2.5336959E-03	-1.0070698E-03	
13	2.3350076E-03	-9.7870891E-04	
14	2.1426877E-03	-9.4321677E-04	
15	1.9581679E-03	-9.0101878E-04	
16	1.7827024E-03	-8.5248789E-04	
17	1.6173189E-03	-8.0175263E-04	
18	1.4618662E-03	-7.5303226E-04	
19	1.3160267E-03	-7.0550186E-04	
20	1.1796264E-03	-6.5855810E-04	
21	1.0525904E-03	-6.1181878E-04	
22	9.3489667E-04	-5.6512184E-04	
23	8.2653492E-04	-5.1852680E-04	
24	7.2746048E-04	-4.7231378E-04	
25	6.3755768E-04	-4.2687658E-04	
26	5.5663298E-04	-3.8259238E-04	
27	4.8442150E-04	-3.3980198E-04	
28	4.2059228E-04	-2.9881579E-04	
29	3.6475571E-04	-2.5992165E-04	
30	3.1646616E-04	-2.2338930E-04	
31	2.7522542E-04	-1.8947552E-04	
32	2.4048543E-04	-1.5842214E-04	
33	2.1165457E-04	-1.3040142E-04	
34	1.8811828E-04	-1.0547950E-04	
35	1.6925740E-04	-8.3638150E-05	
36	1.5446361E-04	-6.4787839E-05	
37	1.4315305E-04	-4.8776466E-05	
38	1.3477712E-04	-3.5404551E-05	
39	1.2883058E-04	-2.4442373E-05	
40	1.2485596E-04	-1.5643335E-05	
41	1.2244588E-04	-8.7547767E-06	
42	1.2124338E-04	-3.5262938E-06	
43	1.2094083E-04	2.8410218E-07	
44	1.2127775E-04	2.9054692E-06	
45	1.2203792E-04	4.5504648E-06	
46	1.2304578E-04	5.4131484E-06	
47	1.2416264E-04	5.6677082E-06	
48	1.2528259E-04	5.4680652E-06	
49	1.2632850E-04	4.9480327E-06	
50	1.2724806E-04	4.2219268E-06	
51	1.2800991E-04	3.3854525E-06	
52	1.2860010E-04	2.5167790E-06	
53	1.2901860E-04	1.6778019E-06	
54	1.2927628E-04	9.1499354E-07	
55	1.2939184E-04	2.6081456E-07	
56	1.2938913E-04	-2.6552250E-07	
57	1.2929461E-04	-6.5719918E-07	
58	1.2913490E-04	-9.1914352E-07	
59	1.2893452E-04	-1.0675479E-06	
60	1.2871364E-04	-1.1295431E-06	
61	1.2848592E-04	-1.1430062E-06	



1.000	1.000	90.62	0.000	0.000	Ug5_2_8_L_0					
34 D	19.16	-1.8812E-04	90.53	39.25	90.53	53.90	UL-RL	7.3028E+04	-6.600	56.57
1.000	1.000	95.82	0.000	0.000	Ug5_2_8_L_0					
35 D	20.10	-1.6926E-04	93.16	42.21	93.16	54.86	UL-RL	7.3028E+04	-6.800	58.29
1.000	1.000	100.5	0.000	0.000	Ug5_2_8_L_0					
36 D	20.94	-1.5446E-04	96.36	44.71	96.36	55.81	UL-RL	7.3028E+04	-7.000	60.00
1.000	1.000	104.7	0.000	0.000	Ug5_2_8_L_0					
37 D	21.71	-1.4315E-04	98.96	46.81	98.96	56.75	UL-RL	7.3028E+04	-7.200	61.71
1.000	1.000	108.5	0.000	0.000	Ug5_2_8_L_0					
38 D	22.41	-1.3478E-04	102.1	48.60	102.1	57.68	UL-RL	7.3028E+04	-7.400	63.43
1.000	1.000	112.0	0.000	0.000	Ug5_2_8_L_0					
39 D	23.05	-1.2883E-04	104.7	50.12	104.7	58.60	UL-RL	7.3028E+04	-7.600	65.14
1.000	1.000	115.3	0.000	0.000	Ug5_2_8_L_0					
40 D	23.66	-1.2486E-04	107.7	51.42	107.7	59.52	UL-RL	7.3028E+04	-7.800	66.86
1.000	1.000	118.3	0.000	0.000	Ug5_2_8_L_0					
41 D	24.23	-1.2245E-04	110.8	52.56	110.8	60.43	UL-RL	7.3028E+04	-8.000	68.57
1.000	1.000	121.1	0.000	0.000	Ug5_2_8_L_0					
42 D	24.77	-1.2124E-04	113.3	53.57	113.3	61.34	UL-RL	7.3028E+04	-8.200	70.29
1.000	1.000	123.9	0.000	0.000	Ug5_2_8_L_0					
43 D	25.30	-1.2094E-04	116.3	54.49	116.3	62.25	UL-RL	7.3028E+04	-8.400	72.00
1.000	1.000	126.5	0.000	0.000	Ug5_2_8_L_0					
44 D	25.81	-1.2128E-04	118.8	55.35	118.8	63.15	UL-RL	7.3028E+04	-8.600	73.71
1.000	1.000	129.1	0.000	0.000	Ug5_2_8_L_0					
45 D	26.32	-1.2204E-04	121.8	56.17	121.8	64.04	UL-RL	7.3028E+04	-8.800	75.43
1.000	1.000	131.6	0.000	0.000	Ug5_2_8_L_0					
46 D	26.82	-1.2305E-04	124.3	56.97	124.3	64.93	UL-RL	7.3028E+04	-9.000	77.14
1.000	1.000	134.1	0.000	0.000	Ug5_2_8_L_0					
47 D	27.32	-1.2416E-04	127.2	57.76	127.2	65.83	UL-RL	7.3028E+04	-9.200	78.86
1.000	1.000	136.6	0.000	0.000	Ug5_2_8_L_0					
48 D	27.83	-1.2528E-04	129.7	58.56	129.7	66.71	UL-RL	7.3028E+04	-9.400	80.57
1.000	1.000	139.1	0.000	0.000	Ug5_2_8_L_0					
49 D	28.33	-1.2633E-04	132.6	59.38	132.6	67.60	UL-RL	7.3028E+04	-9.600	82.29
1.000	1.000	141.7	0.000	0.000	Ug5_2_8_L_0					
50 D	28.84	-1.2725E-04	135.0	60.21	135.0	68.49	UL-RL	7.3028E+04	-9.800	84.00
1.000	1.000	144.2	0.000	0.000	Ug5_2_8_L_0					
51 D	29.36	-1.2801E-04	137.9	61.06	137.9	69.37	UL-RL	7.3028E+04	-10.00	85.71
1.000	1.000	146.8	0.000	0.000	Ug5_2_8_L_0					
52 D	29.87	-1.2860E-04	140.3	61.94	140.3	70.25	UL-RL	7.3028E+04	-10.20	87.43
1.000	1.000	149.4	0.000	0.000	Ug5_2_8_L_0					
53 D	30.40	-1.2902E-04	143.2	62.84	143.2	71.13	UL-RL	7.3028E+04	-10.40	89.14
1.000	1.000	152.0	0.000	0.000	Ug5_2_8_L_0					
54 D	30.92	-1.2928E-04	146.0	63.76	146.0	72.02	UL-RL	7.3028E+04	-10.60	90.86
1.000	1.000	154.6	0.000	0.000	Ug5_2_8_L_0					
55 D	31.45	-1.2939E-04	148.4	64.70	148.4	72.90	UL-RL	7.3028E+04	-10.80	92.57
1.000	1.000	157.3	0.000	0.000	Ug5_2_8_L_0					
56 D	31.99	-1.2939E-04	151.2	65.65	151.2	73.78	UL-RL	7.3028E+04	-11.00	94.29
1.000	1.000	159.9	0.000	0.000	Ug5_2_8_L_0					
57 D	32.52	-1.2929E-04	153.6	66.62	153.6	74.66	UL-RL	7.3028E+04	-11.20	96.00
1.000	1.000	162.6	0.000	0.000	Ug5_2_8_L_0					
58 D	33.06	-1.2913E-04	156.4	67.59	156.4	75.54	UL-RL	7.3028E+04	-11.40	97.71
1.000	1.000	165.3	0.000	0.000	Ug5_2_8_L_0					
59 D	33.60	-1.2893E-04	158.8	68.57	158.8	76.42	UL-RL	7.3028E+04	-11.60	99.43
1.000	1.000	168.0	0.000	0.000	Ug5_2_8_L_0					
60 D	34.14	-1.2871E-04	161.6	69.55	161.6	77.30	UL-RL	7.3028E+04	-11.80	101.1
1.000	1.000	170.7	0.000	0.000	Ug5_2_8_L_0					
61 D	17.34	-1.2849E-04	164.0	70.53	164.0	78.18	UL-RL	7.3028E+04	-12.00	102.9
1.000	1.000	173.4	0.000	0.000	Ug5_2_8_L_0					

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|                PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*                |
|                                                                                                                                            |
|                                                                                                                                            |
|                NewProject.BaseDesignSection_28.A2M2R1_1787                                                                              |
|                Exe Time :24 May 2018      18:23:41                                                                              |
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New Project

STRESS RESULTS FOR GROUP NO. 2

0\_R  
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 61  
CURRENT TIME IS 4.0000

HARDENING 2D SOIL ELEMENT

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

EL * FACTOR	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
1	0.000	--	--	--	--	--	REMOVED	--	0.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
2	0.000	--	--	--	--	--	REMOVED	--	-0.2000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
3	0.000	--	--	--	--	--	REMOVED	--	-0.4000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
4	0.000	--	--	--	--	--	REMOVED	--	-0.6000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
5	0.000	--	--	--	--	--	REMOVED	--	-0.8000	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	--	-1.200	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
8	0.000	--	--	--	--	--	REMOVED	--	-1.400	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
9	0.000	--	--	--	--	--	REMOVED	--	-1.600	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
10	0.000	--	--	--	--	--	REMOVED	--	-1.800	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
11	0.000	--	--	--	--	--	REMOVED	--	-2.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
12	0.000	--	--	--	--	--	REMOVED	--	-2.200	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
13	0.000	--	--	--	--	--	REMOVED	--	-2.400	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
14	0.000	--	--	--	--	--	REMOVED	--	-2.600	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
15	0.000	--	--	--	--	--	REMOVED	--	-2.800	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
16 D	0.000	1.7827E-03	0.000	0.000	30.00	41.62	PASSIVE	0.000	-3.000	0.000	
1.000	1.000	0.000	0.000	0.000	Ug5_2_8_L_0						
17 D	2.027	1.6173E-03	1.714	7.848	32.00	49.94	PASSIVE	0.000	-3.200	2.286	
1.000	1.000	10.13	0.000	0.000	Ug5_2_8_L_0						
18 D	4.053	1.4619E-03	3.429	15.70	34.00	58.27	PASSIVE	0.000	-3.400	4.571	
1.000	1.000	20.27	0.000	0.000	Ug5_2_8_L_0						
19 D	6.080	1.3160E-03	5.143	23.54	36.00	64.41	PASSIVE	0.000	-3.600	6.857	
1.000	1.000	30.40	0.000	0.000	Ug5_2_8_L_0						
20 D	8.107	1.1796E-03	6.857	31.39	38.00	62.03	PASSIVE	0.000	-3.800	9.143	
1.000	1.000	40.53	0.000	0.000	Ug5_2_8_L_0						
21 D	10.13	1.0526E-03	8.571	39.24	40.00	59.87	PASSIVE	0.000	-4.000	11.43	
1.000	1.000	50.67	0.000	0.000	Ug5_2_8_L_0						
22 D	12.16	9.3490E-04	10.29	47.09	42.00	57.95	PASSIVE	0.000	-4.200	13.71	
1.000	1.000	60.80	0.000	0.000	Ug5_2_8_L_0						
23 D	14.19	8.2653E-04	12.00	54.94	44.00	56.27	PASSIVE	0.000	-4.400	16.00	
1.000	1.000	70.94	0.000	0.000	Ug5_2_8_L_0						
24 D	14.75	7.2746E-04	13.71	55.46	46.00	55.46	V-C	1.5533E+04	-4.600	18.29	
1.000	1.000	73.74	0.000	0.000	Ug5_2_8_L_0						
25 D	14.99	6.3756E-04	15.43	54.40	48.00	54.40	V-C	1.5533E+04	-4.800	20.57	
1.000	1.000	74.97	0.000	0.000	Ug5_2_8_L_0						
26 D	15.28	5.5663E-04	17.14	53.53	50.00	53.53	V-C	1.5533E+04	-5.000	22.86	
1.000	1.000	76.39	0.000	0.000	Ug5_2_8_L_0						
27 D	15.60	4.8442E-04	18.86	52.86	52.00	52.86	V-C	1.5533E+04	-5.200	25.14	
1.000	1.000	78.00	0.000	0.000	Ug5_2_8_L_0						
28 D	15.96	4.2059E-04	20.57	52.38	54.00	52.38	V-C	1.5533E+04	-5.400	27.43	
1.000	1.000	79.81	0.000	0.000	Ug5_2_8_L_0						
29 D	16.36	3.6476E-04	22.29	52.07	56.00	52.07	V-C	1.5533E+04	-5.600	29.71	
1.000	1.000	81.79	0.000	0.000	Ug5_2_8_L_0						
30 D	16.79	3.1647E-04	24.00	51.93	58.00	51.93	V-C	1.5533E+04	-5.800	32.00	
1.000	1.000	83.93	0.000	0.000	Ug5_2_8_L_0						
31 D	17.25	2.7523E-04	25.71	51.95	60.00	51.95	V-C	1.5533E+04	-6.000	34.29	
1.000	1.000	86.24	0.000	0.000	Ug5_2_8_L_0						
32 D	17.74	2.4049E-04	27.43	52.11	62.00	52.11	V-C	1.5533E+04	-6.200	36.57	
1.000	1.000	88.68	0.000	0.000	Ug5_2_8_L_0						
33 D	18.25	2.1165E-04	29.14	52.40	64.00	52.40	V-C	1.5533E+04	-6.400	38.86	

1.000	1.000	91.26	0.000	0.000	Ug5_2_8_L_0					
34 D	18.79	1.8812E-04	30.86	52.80	66.00	52.80	V-C	1.5533E+04	-6.600	41.14
1.000	1.000	93.94	0.000	0.000	Ug5_2_8_L_0					
35 D	19.25	1.6926E-04	32.57	52.83	68.00	53.54	UL-RL	4.6600E+04	-6.800	43.43
1.000	1.000	96.25	0.000	0.000	Ug5_2_8_L_0					
36 D	19.71	1.5446E-04	34.29	52.83	70.00	54.41	UL-RL	4.6600E+04	-7.000	45.71
1.000	1.000	98.54	0.000	0.000	Ug5_2_8_L_0					
37 D	20.21	1.4315E-04	36.00	53.07	72.00	55.28	UL-RL	4.6600E+04	-7.200	48.00
1.000	1.000	101.1	0.000	0.000	Ug5_2_8_L_0					
38 D	20.76	1.3478E-04	37.71	53.50	74.00	56.13	UL-RL	4.6600E+04	-7.400	50.29
1.000	1.000	103.8	0.000	0.000	Ug5_2_8_L_0					
39 D	21.33	1.2883E-04	39.43	54.08	76.00	56.98	UL-RL	4.6600E+04	-7.600	52.57
1.000	1.000	106.6	0.000	0.000	Ug5_2_8_L_0					
40 D	21.92	1.2486E-04	41.14	54.76	78.00	57.84	UL-RL	4.6600E+04	-7.800	54.86
1.000	1.000	109.6	0.000	0.000	Ug5_2_8_L_0					
41 D	22.54	1.2245E-04	42.86	55.53	80.00	58.70	UL-RL	4.6600E+04	-8.000	57.14
1.000	1.000	112.7	0.000	0.000	Ug5_2_8_L_0					
42 D	23.15	1.2124E-04	44.57	56.34	82.00	59.56	UL-RL	4.6600E+04	-8.200	59.43
1.000	1.000	115.8	0.000	0.000	Ug5_2_8_L_0					
43 D	23.78	1.2094E-04	46.29	57.21	84.00	60.42	UL-RL	4.6600E+04	-8.400	61.71
1.000	1.000	118.9	0.000	0.000	Ug5_2_8_L_0					
44 D	24.42	1.2128E-04	48.00	58.10	86.00	61.28	UL-RL	4.6600E+04	-8.600	64.00
1.000	1.000	122.1	0.000	0.000	Ug5_2_8_L_0					
45 D	25.06	1.2204E-04	49.71	59.01	88.00	62.13	UL-RL	4.6600E+04	-8.800	66.29
1.000	1.000	125.3	0.000	0.000	Ug5_2_8_L_0					
46 D	25.70	1.2305E-04	51.43	59.93	90.00	62.98	UL-RL	4.6600E+04	-9.000	68.57
1.000	1.000	128.5	0.000	0.000	Ug5_2_8_L_0					
47 D	26.34	1.2416E-04	53.14	60.85	92.00	63.83	UL-RL	4.6600E+04	-9.200	70.86
1.000	1.000	131.7	0.000	0.000	Ug5_2_8_L_0					
48 D	26.98	1.2528E-04	54.86	61.76	94.00	64.67	UL-RL	4.6600E+04	-9.400	73.14
1.000	1.000	134.9	0.000	0.000	Ug5_2_8_L_0					
49 D	27.62	1.2633E-04	56.57	62.65	96.00	65.51	UL-RL	4.6600E+04	-9.600	75.43
1.000	1.000	138.1	0.000	0.000	Ug5_2_8_L_0					
50 D	28.25	1.2725E-04	58.29	63.53	98.00	66.36	UL-RL	4.6600E+04	-9.800	77.71
1.000	1.000	141.2	0.000	0.000	Ug5_2_8_L_0					
51 D	28.88	1.2801E-04	60.00	64.40	100.00	67.20	UL-RL	4.6600E+04	-10.000	80.00
1.000	1.000	144.4	0.000	0.000	Ug5_2_8_L_0					
52 D	29.51	1.2860E-04	61.71	65.24	102.0	68.03	UL-RL	4.6600E+04	-10.200	82.29
1.000	1.000	147.5	0.000	0.000	Ug5_2_8_L_0					
53 D	30.13	1.2902E-04	63.43	66.07	104.0	68.87	UL-RL	4.6600E+04	-10.400	84.57
1.000	1.000	150.6	0.000	0.000	Ug5_2_8_L_0					
54 D	30.75	1.2928E-04	65.14	66.89	106.0	69.71	UL-RL	4.6600E+04	-10.600	86.86
1.000	1.000	153.7	0.000	0.000	Ug5_2_8_L_0					
55 D	31.37	1.2939E-04	66.86	67.69	108.0	70.55	UL-RL	4.6600E+04	-10.800	89.14
1.000	1.000	156.8	0.000	0.000	Ug5_2_8_L_0					
56 D	31.98	1.2939E-04	68.57	68.48	110.0	71.39	UL-RL	4.6600E+04	-11.000	91.43
1.000	1.000	159.9	0.000	0.000	Ug5_2_8_L_0					
57 D	32.60	1.2929E-04	70.29	69.27	112.0	72.22	UL-RL	4.6600E+04	-11.200	93.71
1.000	1.000	163.0	0.000	0.000	Ug5_2_8_L_0					
58 D	33.21	1.2913E-04	72.00	70.05	114.0	73.06	UL-RL	4.6600E+04	-11.400	96.00
1.000	1.000	166.0	0.000	0.000	Ug5_2_8_L_0					
59 D	33.82	1.2893E-04	73.71	70.82	116.0	73.90	UL-RL	4.6600E+04	-11.600	98.29
1.000	1.000	169.1	0.000	0.000	Ug5_2_8_L_0					
60 D	34.43	1.2871E-04	75.43	71.60	118.0	74.74	UL-RL	4.6600E+04	-11.800	100.6
1.000	1.000	172.2	0.000	0.000	Ug5_2_8_L_0					
61 D	17.52	1.2849E-04	77.14	72.37	120.0	75.57	UL-RL	4.6600E+04	-12.000	102.9
1.000	1.000	175.2	0.000	0.000	Ug5_2_8_L_0					

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|                PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
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New Project

STRESS RESULTS FOR GROUP NO. 3

WallElement\_33 :  
ELEMENT TYPE 2 NO.OF ELEMENTS. IN THIS GROUP 60  
CURRENT TIME IS 4.0000

WALL2D ELEMENT

EL	TA	TB	MA	MB
1	1.51822E-10	-1.51822E-10	1.52283E-11	-4.37810E-11
2	1.4294	-1.4294	6.30103E-11	0.28588
3	3.5347	-3.5347	-0.28588	0.99281
4	6.1579	-6.1579	-0.99281	2.2244
5	9.3229	-9.3229	-2.2244	4.0890
6	13.027	-13.027	-4.0890	6.6943
7	17.230	-17.230	-6.6943	10.140
8	21.918	-21.918	-10.140	14.524
9	27.090	-27.090	-14.524	19.942
10	32.719	-32.719	-19.942	26.486
11	38.797	-38.797	-26.486	34.245
12	45.296	-45.296	-34.245	43.304
13	52.202	-52.202	-43.304	53.745
14	59.480	-59.480	-53.745	61.641
15	67.103	-67.103	-61.641	71.061
16	75.169	-75.169	-71.061	81.667
17	83.675	-83.675	-81.667	93.552
18	92.621	-92.621	-93.552	106.814
19	102.007	-102.007	-106.814	121.548
20	111.832	-111.832	-121.548	137.865
21	122.106	-122.106	-137.865	155.767
22	132.829	-132.829	-155.767	175.265
23	144.002	-144.002	-175.265	196.469
24	155.625	-155.625	-196.469	219.389
25	167.700	-167.700	-219.389	244.034
26	180.227	-180.227	-244.034	270.514
27	193.216	-193.216	-270.514	298.839
28	206.667	-206.667	-298.839	329.019
29	220.590	-220.590	-329.019	361.164
30	235.005	-235.005	-361.164	395.284
31	250.022	-250.022	-395.284	431.489
32	265.651	-265.651	-431.489	469.789
33	281.902	-281.902	-469.789	510.194
34	298.785	-298.785	-510.194	552.714
35	316.310	-316.310	-552.714	597.359
36	334.487	-334.487	-597.359	645.139
37	353.326	-353.326	-645.139	696.064
38	372.837	-372.837	-696.064	750.144
39	393.030	-393.030	-750.144	807.379
40	413.915	-413.915	-807.379	867.669
41	435.502	-435.502	-867.669	931.014
42	457.791	-457.791	-931.014	997.414
43	480.792	-480.792	-997.414	1066.869
44	504.505	-504.505	-1066.869	1139.379
45	528.940	-528.940	-1139.379	1214.944
46	554.107	-554.107	-1214.944	1293.564
47	580.007	-580.007	-1293.564	1375.239
48	606.640	-606.640	-1375.239	1460.969
49	634.007	-634.007	-1460.969	1550.754
50	662.109	-662.109	-1550.754	1644.594
51	690.946	-690.946	-1644.594	1742.489
52	720.519	-720.519	-1742.489	1844.439
53	750.827	-750.827	-1844.439	1950.444
54	781.870	-781.870	-1950.444	2060.504
55	813.649	-813.649	-2060.504	2174.629
56	846.164	-846.164	-2174.629	2292.819
57	879.415	-879.415	-2292.819	2415.074
58	913.402	-913.402	-2415.074	2541.394
59	948.125	-948.125	-2541.394	2671.779
60	983.584	-983.584	-2671.779	2806.229

ITER 0 RNORM =0.1751E+05 RMNORM= 0.000  
RINORM=0.7785E+05 RIMNOR=0.1530E+06  
RENORM=0.2180E+05 REMNOR=0.1967E-20 RATIO =0.5292 TOLER =0.1000E-03 NOT CONVERGED  
RFMAX = 105.0 RMMAX = 71.06  
RTSMAL=0.1000E-02 RMSMAL=0.1000E-03  
RDT =0.7785E+05 RDR =0.1530E+06  
RATIOT=0.5292 RATIOR= 0.000  
MAX UN= 71.83 IEQ= 31 NODE 16 DOF 1 Y-DISPL.F

MIN UN=-103.2 IEQ= 33 NODE 17 DOF 1 Y-DISPL.F  
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 2 RNORM =0.1751E+05 RMNORM= 0.000  
RINORM=0.7785E+05 RIMNOR=0.1530E+06  
RENORM=0.7748 REMNOR=0.8727E-21 RATIO =0.3155E-02 TOLER =0.1000E-03 NOT CONVERGED  
RFMAX = 105.0 RMMAX = 71.06  
RTSMAL=0.1000E-02 RMSMAL=0.1000E-03  
RDT =0.7785E+05 RDR =0.1530E+06  
RATIOT=0.3155E-02 RATIO= 0.000  
MAX UN=0.5465 IEQ= 61 NODE 31 DOF 1 Y-DISPL.F  
MIN UN=-.2232 IEQ= 3 NODE 2 DOF 1 Y-DISPL.F  
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 3 RNORM =0.1751E+05 RMNORM= 0.000  
RINORM=0.7785E+05 RIMNOR=0.1530E+06  
RENORM=0.1185E-05 REMNOR=0.1370E-20 RATIO =0.3902E-05 TOLER =0.1000E-03 CONVERGED !  
RFMAX = 105.0 RMMAX = 71.06  
RTSMAL=0.1000E-02 RMSMAL=0.1000E-03  
RDT =0.7785E+05 RDR =0.1530E+06  
RATIOT=0.3902E-05 RATIO= 0.000  
MAX UN=0.1089E-02 IEQ= 51 NODE 26 DOF 1 Y-DISPL.F  
MIN UN=-.4392E-09 IEQ= 7 NODE 4 DOF 1 Y-DISPL.F  
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
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New Project
SOLUTION REACHED USING      3 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	4.9124409E-03	-1.1211191E-03	
2	4.6882171E-03	-1.1211191E-03	
3	4.4639988E-03	-1.1210359E-03	
4	4.2398230E-03	-1.1206482E-03	
5	4.0157811E-03	-1.1196366E-03	
6	3.7920372E-03	-1.1175931E-03	
7	3.5688458E-03	-1.1140199E-03	
8	3.3465702E-03	-1.1083323E-03	
9	3.1256984E-03	-1.0998623E-03	
10	2.9068608E-03	-1.0878597E-03	
11	2.6908454E-03	-1.0714942E-03	
12	2.4786145E-03	-1.0498575E-03	
13	2.2713194E-03	-1.0219656E-03	
14	2.0703157E-03	-9.8676229E-04	
15	1.8771770E-03	-9.4312191E-04	
16	1.6937087E-03	-8.8985427E-04	
17	1.5219596E-03	-8.2570958E-04	
18	1.3637250E-03	-7.5705089E-04	
19	1.2190213E-03	-6.9016108E-04	
20	1.0876407E-03	-6.2356851E-04	
21	9.6967732E-04	-5.5573289E-04	
22	8.6514543E-04	-4.9093826E-04	
23	7.7281026E-04	-4.3352011E-04	
24	6.9133537E-04	-3.8213209E-04	
25	6.1962819E-04	-3.3568257E-04	
26	5.5678872E-04	-2.9333747E-04	
27	5.0205819E-04	-2.5452144E-04	
28	4.5476732E-04	-2.1890192E-04	
29	4.1429374E-04	-1.8633764E-04	
30	3.8003262E-04	-1.5676799E-04	
31	3.5139027E-04	-1.3014246E-04	
32	3.2778198E-04	-1.0642351E-04	
33	3.0862903E-04	-8.5583975E-05	
34	2.9336008E-04	-6.7569048E-05	
35	2.8142041E-04	-5.2269117E-05	
36	2.7228179E-04	-3.9528926E-05	
37	2.6545127E-04	-2.9152699E-05	
38	2.6047810E-04	-2.0916080E-05	
39	2.5695814E-04	-1.4580029E-05	
40	2.5453559E-04	-9.9014866E-06	
41	2.5290296E-04	-6.6416449E-06	
42	2.5179958E-04	-4.5720156E-06	
43	2.5100908E-04	-3.4786097E-06	
44	2.5035617E-04	-3.1647302E-06	
45	2.4970305E-04	-3.4529457E-06	
46	2.4894534E-04	-4.1860605E-06	
47	2.4800808E-04	-5.2272664E-06	
48	2.4684168E-04	-6.4596969E-06	
49	2.4541798E-04	-7.7855370E-06	
50	2.4372658E-04	-9.1248313E-06	
51	2.4177138E-04	-1.0414153E-05	
52	2.3956742E-04	-1.1605164E-05	
53	2.3713826E-04	-1.2663061E-05	
54	2.3451267E-04	-1.3565619E-05	
55	2.3172312E-04	-1.4301534E-05	
56	2.2880324E-04	-1.4869627E-05	
57	2.2578593E-04	-1.5277912E-05	
58	2.2270163E-04	-1.5542908E-05	
59	2.1957668E-04	-1.5689135E-05	
60	2.1643175E-04	-1.5748766E-05	
61	2.1328015E-04	-1.5761425E-05	



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|                PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*                |
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|                NewProject.BaseDesignSection_28.A2M2R1_1787                                                                              |
|                Exe Time :24 May 2018      18:23:41                                                                              |
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New Project

STRESS RESULTS FOR GROUP NO. 1

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ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 61  
CURRENT TIME IS 5.0000

HARDENING 2D SOIL ELEMENT

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

EL * FACTOR	FORCE UFACOR	DISPL-Y Peq	VERTICAL-P Su_a	HORIZON.-P Su_p	MAX-V-P LAYER	MAX-H-P	STATE	STIFFNESS	Z-LEVEL	PORE	E
1 D	0.000	-4.9124E-03	0.000	0.000	0.000	0.000	PASSIVE	0.000	0.000	0.000	
1.000	1.000	0.000	0.000	0.000	Ug5_2_8_L_0						
2 D	1.138	-4.6882E-03	2.548	4.088	2.548	5.490	UL-RL	5.4771E+04	-0.2000	1.600	
1.000	1.000	5.688	0.000	0.000	Ug5_2_8_L_0						
3 D	1.888	-4.4640E-03	5.579	6.239	5.579	8.815	UL-RL	5.4771E+04	-0.4000	3.200	
1.000	1.000	9.439	0.000	0.000	Ug5_2_8_L_0						
4 D	2.480	-4.2398E-03	8.808	7.600	8.808	11.65	UL-RL	5.4771E+04	-0.6000	4.800	
1.000	1.000	12.40	0.000	0.000	Ug5_2_8_L_0						
5 D	3.096	-4.0158E-03	12.43	9.081	12.43	14.00	UL-RL	5.4771E+04	-0.8000	6.400	
1.000	1.000	15.48	0.000	0.000	Ug5_2_8_L_0						
6 D	3.710	-3.7920E-03	16.05	10.55	16.05	16.11	UL-RL	5.4771E+04	-1.000	8.000	
1.000	1.000	18.55	0.000	0.000	Ug5_2_8_L_0						
7 D	4.285	-3.5688E-03	19.11	11.83	19.11	18.11	UL-RL	5.4771E+04	-1.200	9.600	
1.000	1.000	21.43	0.000	0.000	Ug5_2_8_L_0						
8 D	4.847	-3.3466E-03	22.05	13.04	22.05	20.02	UL-RL	5.4771E+04	-1.400	11.20	
1.000	1.000	24.24	0.000	0.000	Ug5_2_8_L_0						
9 D	5.409	-3.1257E-03	25.11	14.24	25.11	21.87	UL-RL	5.4771E+04	-1.600	12.80	
1.000	1.000	27.04	0.000	0.000	Ug5_2_8_L_0						
10 D	5.944	-2.9069E-03	27.92	15.32	27.92	23.65	UL-RL	5.4771E+04	-1.800	14.40	
1.000	1.000	29.72	0.000	0.000	Ug5_2_8_L_0						
11 D	6.474	-2.6908E-03	30.86	16.37	30.86	25.38	UL-RL	5.4771E+04	-2.000	16.00	
1.000	1.000	32.37	0.000	0.000	Ug5_2_8_L_0						
12 D	6.977	-2.4786E-03	33.63	17.28	33.63	27.06	UL-RL	5.4771E+04	-2.200	17.60	
1.000	1.000	34.88	0.000	0.000	Ug5_2_8_L_0						
13 D	7.466	-2.2713E-03	36.53	18.13	36.53	28.68	UL-RL	5.4771E+04	-2.400	19.20	
1.000	1.000	37.33	0.000	0.000	Ug5_2_8_L_0						
14 D	7.922	-2.0703E-03	39.29	18.81	39.29	30.25	UL-RL	5.4771E+04	-2.600	20.80	
1.000	1.000	39.61	0.000	0.000	Ug5_2_8_L_0						
15 D	8.351	-1.8772E-03	42.17	19.35	42.17	31.77	UL-RL	5.4771E+04	-2.800	22.40	
1.000	1.000	41.75	0.000	0.000	Ug5_2_8_L_0						
16 D	8.732	-1.6937E-03	44.95	19.66	44.95	33.24	UL-RL	5.4771E+04	-3.000	24.00	
1.000	1.000	43.66	0.000	0.000	Ug5_2_8_L_0						
17 D	9.282	-1.5220E-03	47.83	20.81	47.83	34.66	UL-RL	5.4771E+04	-3.200	25.60	
1.000	1.000	46.41	0.000	0.000	Ug5_2_8_L_0						
18 D	9.815	-1.3637E-03	50.62	21.87	50.62	36.03	UL-RL	5.4771E+04	-3.400	27.20	
1.000	1.000	49.07	0.000	0.000	Ug5_2_8_L_0						
19 D	10.31	-1.2190E-03	53.42	22.73	53.42	37.37	UL-RL	5.4771E+04	-3.600	28.80	
1.000	1.000	51.53	0.000	0.000	Ug5_2_8_L_0						
20 D	10.76	-1.0876E-03	56.30	23.39	56.30	38.66	UL-RL	5.4771E+04	-3.800	30.40	
1.000	1.000	53.79	0.000	0.000	Ug5_2_8_L_0						
21 D	11.16	-9.6968E-04	59.11	23.81	59.11	39.92	UL-RL	5.4771E+04	-4.000	32.00	
1.000	1.000	55.81	0.000	0.000	Ug5_2_8_L_0						
22 D	11.53	-8.6515E-04	61.98	24.03	61.98	41.14	UL-RL	5.4771E+04	-4.200	33.60	
1.000	1.000	57.63	0.000	0.000	Ug5_2_8_L_0						
23 D	11.85	-7.7281E-04	64.79	24.07	64.79	42.33	UL-RL	5.4771E+04	-4.400	35.20	
1.000	1.000	59.27	0.000	0.000	Ug5_2_8_L_0						
24 D	12.17	-6.9134E-04	67.67	24.04	67.67	43.49	UL-RL	5.4771E+04	-4.600	36.80	
1.000	1.000	60.84	0.000	0.000	Ug5_2_8_L_0						
25 D	12.47	-6.1963E-04	70.48	23.96	70.48	44.63	UL-RL	5.4771E+04	-4.800	38.40	
1.000	1.000	62.36	0.000	0.000	Ug5_2_8_L_0						
26 D	12.78	-5.5679E-04	73.28	23.89	73.28	45.73	UL-RL	5.4771E+04	-5.000	40.00	
1.000	1.000	63.89	0.000	0.000	Ug5_2_8_L_0						
27 D	13.16	-5.0206E-04	75.86	24.20	75.86	46.82	ACTIVE	0.000	-5.200	41.60	
1.000	1.000	65.80	0.000	0.000	Ug5_2_8_L_0						
28 D	13.64	-4.5477E-04	78.45	25.02	78.45	47.88	ACTIVE	0.000	-5.400	43.20	
1.000	1.000	68.22	0.000	0.000	Ug5_2_8_L_0						
29 D	14.13	-4.1429E-04	81.04	25.85	81.04	48.92	ACTIVE	0.000	-5.600	44.80	
1.000	1.000	70.65	0.000	0.000	Ug5_2_8_L_0						
30 D	14.62	-3.8003E-04	83.64	26.68	83.64	49.95	ACTIVE	0.000	-5.800	46.40	
1.000	1.000	73.08	0.000	0.000	Ug5_2_8_L_0						
31 D	15.10	-3.5139E-04	86.24	27.51	86.24	50.96	ACTIVE	0.000	-6.000	48.00	
1.000	1.000	75.51	0.000	0.000	Ug5_2_8_L_0						
32 D	15.65	-3.2778E-04	88.84	28.66	88.84	51.95	UL-RL	5.4771E+04	-6.200	49.60	
1.000	1.000	78.26	0.000	0.000	Ug5_2_8_L_0						
33 D	16.70	-3.0863E-04	91.45	32.28	91.45	52.93	UL-RL	5.4771E+04	-6.400	51.20	

1.000	1.000	83.48	0.000	0.000	Ug5_2_8_L_0					
34 D	17.63	-2.9336E-04	94.30	35.37	94.30	53.90	UL-RL	5.4771E+04	-6.600	52.80
1.000	1.000	88.17	0.000	0.000	Ug5_2_8_L_0					
35 D	18.48	-2.8142E-04	97.05	38.01	97.05	54.86	UL-RL	5.4771E+04	-6.800	54.40
1.000	1.000	92.41	0.000	0.000	Ug5_2_8_L_0					
36 D	19.25	-2.7228E-04	100.4	40.25	100.4	55.81	UL-RL	5.4771E+04	-7.000	56.00
1.000	1.000	96.25	0.000	0.000	Ug5_2_8_L_0					
37 D	19.95	-2.6545E-04	103.1	42.17	103.1	56.75	UL-RL	5.4771E+04	-7.200	57.60
1.000	1.000	99.77	0.000	0.000	Ug5_2_8_L_0					
38 D	20.61	-2.6048E-04	106.3	43.83	106.3	57.68	UL-RL	5.4771E+04	-7.400	59.20
1.000	1.000	103.0	0.000	0.000	Ug5_2_8_L_0					
39 D	21.21	-2.5696E-04	109.0	45.27	109.0	58.60	UL-RL	5.4771E+04	-7.600	60.80
1.000	1.000	106.1	0.000	0.000	Ug5_2_8_L_0					
40 D	21.79	-2.5454E-04	112.2	46.55	112.2	59.52	UL-RL	5.4771E+04	-7.800	62.40
1.000	1.000	108.9	0.000	0.000	Ug5_2_8_L_0					
41 D	22.34	-2.5290E-04	115.4	47.70	115.4	60.43	UL-RL	5.4771E+04	-8.000	64.00
1.000	1.000	111.7	0.000	0.000	Ug5_2_8_L_0					
42 D	22.87	-2.5180E-04	118.0	48.77	118.0	61.34	UL-RL	5.4771E+04	-8.200	65.60
1.000	1.000	114.4	0.000	0.000	Ug5_2_8_L_0					
43 D	23.39	-2.5101E-04	121.1	49.77	121.1	62.25	UL-RL	5.4771E+04	-8.400	67.20
1.000	1.000	117.0	0.000	0.000	Ug5_2_8_L_0					
44 D	23.91	-2.5036E-04	123.7	50.74	123.7	63.15	UL-RL	5.4771E+04	-8.600	68.80
1.000	1.000	119.5	0.000	0.000	Ug5_2_8_L_0					
45 D	24.42	-2.4970E-04	126.8	51.69	126.8	64.04	UL-RL	5.4771E+04	-8.800	70.40
1.000	1.000	122.1	0.000	0.000	Ug5_2_8_L_0					
46 D	24.93	-2.4895E-04	129.4	52.64	129.4	64.93	UL-RL	5.4771E+04	-9.000	72.00
1.000	1.000	124.6	0.000	0.000	Ug5_2_8_L_0					
47 D	25.44	-2.4801E-04	132.4	53.61	132.4	65.83	UL-RL	5.4771E+04	-9.200	73.60
1.000	1.000	127.2	0.000	0.000	Ug5_2_8_L_0					
48 D	25.96	-2.4684E-04	135.0	54.59	135.0	66.71	UL-RL	5.4771E+04	-9.400	75.20
1.000	1.000	129.8	0.000	0.000	Ug5_2_8_L_0					
49 D	26.48	-2.4542E-04	138.0	55.60	138.0	67.60	UL-RL	5.4771E+04	-9.600	76.80
1.000	1.000	132.4	0.000	0.000	Ug5_2_8_L_0					
50 D	27.01	-2.4373E-04	140.6	56.63	140.6	68.49	UL-RL	5.4771E+04	-9.800	78.40
1.000	1.000	135.0	0.000	0.000	Ug5_2_8_L_0					
51 D	27.54	-2.4177E-04	143.6	57.69	143.6	69.37	UL-RL	5.4771E+04	-10.000	80.00
1.000	1.000	137.7	0.000	0.000	Ug5_2_8_L_0					
52 D	28.08	-2.3957E-04	146.2	58.78	146.2	70.25	UL-RL	5.4771E+04	-10.200	81.60
1.000	1.000	140.4	0.000	0.000	Ug5_2_8_L_0					
53 D	28.62	-2.3714E-04	149.1	59.89	149.1	71.13	UL-RL	5.4771E+04	-10.400	83.20
1.000	1.000	143.1	0.000	0.000	Ug5_2_8_L_0					
54 D	29.17	-2.3451E-04	152.0	61.03	152.0	72.02	UL-RL	5.4771E+04	-10.600	84.80
1.000	1.000	145.8	0.000	0.000	Ug5_2_8_L_0					
55 D	29.72	-2.3172E-04	154.6	62.18	154.6	72.90	UL-RL	5.4771E+04	-10.800	86.40
1.000	1.000	148.6	0.000	0.000	Ug5_2_8_L_0					
56 D	30.27	-2.2880E-04	157.5	63.35	157.5	73.78	UL-RL	5.4771E+04	-11.000	88.00
1.000	1.000	151.4	0.000	0.000	Ug5_2_8_L_0					
57 D	30.83	-2.2579E-04	160.0	64.53	160.0	74.66	UL-RL	5.4771E+04	-11.200	89.60
1.000	1.000	154.1	0.000	0.000	Ug5_2_8_L_0					
58 D	31.38	-2.2270E-04	162.9	65.72	162.9	75.54	UL-RL	5.4771E+04	-11.400	91.20
1.000	1.000	156.9	0.000	0.000	Ug5_2_8_L_0					
59 D	31.94	-2.1958E-04	165.4	66.92	165.4	76.42	UL-RL	5.4771E+04	-11.600	92.80
1.000	1.000	159.7	0.000	0.000	Ug5_2_8_L_0					
60 D	32.50	-2.1643E-04	168.3	68.12	168.3	77.30	UL-RL	5.4771E+04	-11.800	94.40
1.000	1.000	162.5	0.000	0.000	Ug5_2_8_L_0					
61 D	16.53	-2.1328E-04	170.8	69.31	170.8	78.18	UL-RL	5.4771E+04	-12.000	96.00
1.000	1.000	165.3	0.000	0.000	Ug5_2_8_L_0					

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|                PARATIEPLUS(TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION *Build date:Jul 11, 2017*                |
|                                                                                                                                            |
|                                                                                                                                            |
|                NewProject.BaseDesignSection_28.A2M2R1_1787                                                                              |
|                Exe Time :24 May 2018      18:23:41                                                                                          |
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New Project

STRESS RESULTS FOR GROUP NO. 2

0\_R :  
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 61  
CURRENT TIME IS 5.0000

HARDENING 2D SOIL ELEMENT

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

EL * FACTOR	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
1	0.000	--	--	--	--	--	REMOVED	--	0.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
2	0.000	--	--	--	--	--	REMOVED	--	-0.2000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
3	0.000	--	--	--	--	--	REMOVED	--	-0.4000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
4	0.000	--	--	--	--	--	REMOVED	--	-0.6000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
5	0.000	--	--	--	--	--	REMOVED	--	-0.8000	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	--	-1.200	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
8	0.000	--	--	--	--	--	REMOVED	--	-1.400	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
9	0.000	--	--	--	--	--	REMOVED	--	-1.600	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
10	0.000	--	--	--	--	--	REMOVED	--	-1.800	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
11	0.000	--	--	--	--	--	REMOVED	--	-2.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
12	0.000	--	--	--	--	--	REMOVED	--	-2.200	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
13	0.000	--	--	--	--	--	REMOVED	--	-2.400	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
14	0.000	--	--	--	--	--	REMOVED	--	-2.600	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
15	0.000	--	--	--	--	--	REMOVED	--	-2.800	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
16	0.000	--	--	--	--	--	REMOVED	--	-3.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
17	0.000	--	--	--	--	--	REMOVED	--	-3.200	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
18	0.000	--	--	--	--	--	REMOVED	--	-3.400	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
19	0.000	--	--	--	--	--	REMOVED	--	-3.600	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
20	0.000	--	--	--	--	--	REMOVED	--	-3.800	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
21 D	0.000	9.6968E-04	0.000	0.000	40.00	59.87	PASSIVE	0.000	-4.000	0.000	
1.000	1.000	0.000	0.000	0.000	Ug5_2_8_L_0						
22 D	1.457	8.6515E-04	1.600	4.887	42.00	57.95	UL-RL	3.4950E+04	-4.200	2.400	
1.000	1.000	7.287	0.000	0.000	Ug5_2_8_L_0						
23 D	3.514	7.7281E-04	3.200	12.77	44.00	56.27	UL-RL	3.4950E+04	-4.400	4.800	
1.000	1.000	17.57	0.000	0.000	Ug5_2_8_L_0						
24 D	5.582	6.9134E-04	4.800	20.71	46.00	55.46	UL-RL	3.4950E+04	-4.600	7.200	
1.000	1.000	27.91	0.000	0.000	Ug5_2_8_L_0						
25 D	7.655	6.1963E-04	6.400	28.67	48.00	54.40	UL-RL	3.4950E+04	-4.800	9.600	
1.000	1.000	38.27	0.000	0.000	Ug5_2_8_L_0						
26 D	9.725	5.5679E-04	8.000	36.62	50.00	53.53	PASSIVE	0.000	-5.000	12.00	
1.000	1.000	48.62	0.000	0.000	Ug5_2_8_L_0						
27 D	11.67	5.0206E-04	9.600	43.95	52.00	52.86	PASSIVE	0.000	-5.200	14.40	
1.000	1.000	58.35	0.000	0.000	Ug5_2_8_L_0						
28 D	13.20	4.5477E-04	11.20	49.20	54.00	52.38	UL-RL	3.4950E+04	-5.400	16.80	
1.000	1.000	66.00	0.000	0.000	Ug5_2_8_L_0						
29 D	13.75	4.1429E-04	12.80	49.53	56.00	52.07	UL-RL	3.4950E+04	-5.600	19.20	
1.000	1.000	68.73	0.000	0.000	Ug5_2_8_L_0						
30 D	14.31	3.8003E-04	14.40	49.95	58.00	51.93	UL-RL	3.4950E+04	-5.800	21.60	
1.000	1.000	71.55	0.000	0.000	Ug5_2_8_L_0						
31 D	14.89	3.5139E-04	16.00	50.47	60.00	51.95	UL-RL	3.4950E+04	-6.000	24.00	
1.000	1.000	74.47	0.000	0.000	Ug5_2_8_L_0						
32 D	15.49	3.2778E-04	17.60	51.06	62.00	52.11	UL-RL	3.4950E+04	-6.200	26.40	
1.000	1.000	77.46	0.000	0.000	Ug5_2_8_L_0						
33 D	16.10	3.0863E-04	19.20	51.72	64.00	52.40	UL-RL	3.4950E+04	-6.400	28.80	

1.000	1.000	80.52	0.000	0.000	Ug5_2_8_L_0					
34 D	16.73	2.9336E-04	20.80	52.44	66.00	52.80	UL-RL	3.4950E+04	-6.600	31.20
1.000	1.000	83.64	0.000	0.000	Ug5_2_8_L_0					
35 D	17.27	2.8142E-04	22.40	52.73	68.00	53.54	UL-RL	3.4950E+04	-6.800	33.60
1.000	1.000	86.33	0.000	0.000	Ug5_2_8_L_0					
36 D	17.79	2.7228E-04	24.00	52.95	70.00	54.41	UL-RL	3.4950E+04	-7.000	36.00
1.000	1.000	88.95	0.000	0.000	Ug5_2_8_L_0					
37 D	18.35	2.6545E-04	25.60	53.35	72.00	55.28	UL-RL	3.4950E+04	-7.200	38.40
1.000	1.000	91.75	0.000	0.000	Ug5_2_8_L_0					
38 D	18.94	2.6048E-04	27.20	53.91	74.00	56.13	UL-RL	3.4950E+04	-7.400	40.80
1.000	1.000	94.71	0.000	0.000	Ug5_2_8_L_0					
39 D	19.56	2.5696E-04	28.80	54.58	76.00	56.98	UL-RL	3.4950E+04	-7.600	43.20
1.000	1.000	97.78	0.000	0.000	Ug5_2_8_L_0					
40 D	20.18	2.5454E-04	30.40	55.32	78.00	57.84	UL-RL	3.4950E+04	-7.800	45.60
1.000	1.000	100.9	0.000	0.000	Ug5_2_8_L_0					
41 D	20.82	2.5290E-04	32.00	56.11	80.00	58.70	UL-RL	3.4950E+04	-8.000	48.00
1.000	1.000	104.1	0.000	0.000	Ug5_2_8_L_0					
42 D	21.46	2.5180E-04	33.60	56.92	82.00	59.56	UL-RL	3.4950E+04	-8.200	50.40
1.000	1.000	107.3	0.000	0.000	Ug5_2_8_L_0					
43 D	22.11	2.5101E-04	35.20	57.76	84.00	60.42	UL-RL	3.4950E+04	-8.400	52.80
1.000	1.000	110.6	0.000	0.000	Ug5_2_8_L_0					
44 D	22.76	2.5036E-04	36.80	58.62	86.00	61.28	UL-RL	3.4950E+04	-8.600	55.20
1.000	1.000	113.8	0.000	0.000	Ug5_2_8_L_0					
45 D	23.41	2.4970E-04	38.40	59.47	88.00	62.13	UL-RL	3.4950E+04	-8.800	57.60
1.000	1.000	117.1	0.000	0.000	Ug5_2_8_L_0					
46 D	24.06	2.4895E-04	40.00	60.32	90.00	62.98	UL-RL	3.4950E+04	-9.000	60.00
1.000	1.000	120.3	0.000	0.000	Ug5_2_8_L_0					
47 D	24.71	2.4801E-04	41.60	61.15	92.00	63.83	UL-RL	3.4950E+04	-9.200	62.40
1.000	1.000	123.5	0.000	0.000	Ug5_2_8_L_0					
48 D	25.35	2.4684E-04	43.20	61.96	94.00	64.67	UL-RL	3.4950E+04	-9.400	64.80
1.000	1.000	126.8	0.000	0.000	Ug5_2_8_L_0					
49 D	25.99	2.4542E-04	44.80	62.76	96.00	65.51	UL-RL	3.4950E+04	-9.600	67.20
1.000	1.000	130.0	0.000	0.000	Ug5_2_8_L_0					
50 D	26.63	2.4373E-04	46.40	63.53	98.00	66.36	UL-RL	3.4950E+04	-9.800	69.60
1.000	1.000	133.1	0.000	0.000	Ug5_2_8_L_0					
51 D	27.26	2.4177E-04	48.00	64.28	100.00	67.20	UL-RL	3.4950E+04	-10.000	72.00
1.000	1.000	136.3	0.000	0.000	Ug5_2_8_L_0					
52 D	27.88	2.3957E-04	49.60	65.01	102.0	68.03	UL-RL	3.4950E+04	-10.200	74.40
1.000	1.000	139.4	0.000	0.000	Ug5_2_8_L_0					
53 D	28.51	2.3714E-04	51.20	65.73	104.0	68.87	UL-RL	3.4950E+04	-10.400	76.80
1.000	1.000	142.5	0.000	0.000	Ug5_2_8_L_0					
54 D	29.12	2.3451E-04	52.80	66.42	106.0	69.71	UL-RL	3.4950E+04	-10.600	79.20
1.000	1.000	145.6	0.000	0.000	Ug5_2_8_L_0					
55 D	29.74	2.3172E-04	54.40	67.10	108.0	70.55	UL-RL	3.4950E+04	-10.800	81.60
1.000	1.000	148.7	0.000	0.000	Ug5_2_8_L_0					
56 D	30.36	2.2880E-04	56.00	67.78	110.0	71.39	UL-RL	3.4950E+04	-11.000	84.00
1.000	1.000	151.8	0.000	0.000	Ug5_2_8_L_0					
57 D	30.97	2.2579E-04	57.60	68.44	112.0	72.22	UL-RL	3.4950E+04	-11.200	86.40
1.000	1.000	154.8	0.000	0.000	Ug5_2_8_L_0					
58 D	31.58	2.2270E-04	59.20	69.09	114.0	73.06	UL-RL	3.4950E+04	-11.400	88.80
1.000	1.000	157.9	0.000	0.000	Ug5_2_8_L_0					
59 D	32.19	2.1958E-04	60.80	69.75	116.0	73.90	UL-RL	3.4950E+04	-11.600	91.20
1.000	1.000	160.9	0.000	0.000	Ug5_2_8_L_0					
60 D	32.80	2.1643E-04	62.40	70.40	118.0	74.74	UL-RL	3.4950E+04	-11.800	93.60
1.000	1.000	164.0	0.000	0.000	Ug5_2_8_L_0					
61 D	16.70	2.1328E-04	64.00	71.04	120.0	75.57	UL-RL	3.4950E+04	-12.000	96.00
1.000	1.000	167.0	0.000	0.000	Ug5_2_8_L_0					



MIN UN=-100.8 IEQ= 41 NODE 21 DOF 1 Y-DISPL.F  
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 2 RNORM =0.3480E+05 RMNORM= 0.000  
RINORM=0.1104E+06 RIMNOR=0.1936E+06  
RENORM= 2.690 REMNOR=0.1815E-20 RATIO =0.4936E-02 TOLER =0.1000E-03 NOT CONVERGED  
RFMAX = 181.0 RMMAX = 95.57  
RTSMAL=0.1000E-02 RMSMAL=0.1000E-03  
RDT =0.1104E+06 RDR =0.1936E+06  
RATIOT=0.4936E-02 RATIO= 0.000  
MAX UN=0.8161 IEQ= 65 NODE 33 DOF 1 Y-DISPL.F  
MIN UN=-.5986E-10 IEQ= 37 NODE 19 DOF 1 Y-DISPL.F  
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 3 RNORM =0.3480E+05 RMNORM= 0.000  
RINORM=0.1104E+06 RIMNOR=0.1936E+06  
RENORM=0.2539 REMNOR=0.1691E-20 RATIO =0.1516E-02 TOLER =0.1000E-03 NOT CONVERGED  
RFMAX = 181.0 RMMAX = 95.57  
RTSMAL=0.1000E-02 RMSMAL=0.1000E-03  
RDT =0.1104E+06 RDR =0.1936E+06  
RATIOT=0.1516E-02 RATIO= 0.000  
MAX UN=0.3933 IEQ= 33 NODE 17 DOF 1 Y-DISPL.F  
MIN UN=-.3931E-09 IEQ= 3 NODE 2 DOF 1 Y-DISPL.F  
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 4 RNORM =0.3480E+05 RMNORM= 0.000  
RINORM=0.1104E+06 RIMNOR=0.1936E+06  
RENORM=0.3147E-01 REMNOR=0.1350E-20 RATIO =0.5338E-03 TOLER =0.1000E-03 NOT CONVERGED  
RFMAX = 181.0 RMMAX = 95.57  
RTSMAL=0.1000E-02 RMSMAL=0.1000E-03  
RDT =0.1104E+06 RDR =0.1936E+06  
RATIOT=0.5338E-03 RATIO= 0.000  
MAX UN=0.1710 IEQ= 37 NODE 19 DOF 1 Y-DISPL.F  
MIN UN=-.4077E-09 IEQ= 9 NODE 5 DOF 1 Y-DISPL.F  
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 5 RNORM =0.3480E+05 RMNORM= 0.000  
RINORM=0.1104E+06 RIMNOR=0.1936E+06  
RENORM=0.2642E-02 REMNOR=0.3057E-20 RATIO =0.1547E-03 TOLER =0.1000E-03 NOT CONVERGED  
RFMAX = 181.0 RMMAX = 95.57  
RTSMAL=0.1000E-02 RMSMAL=0.1000E-03  
RDT =0.1104E+06 RDR =0.1936E+06  
RATIOT=0.1547E-03 RATIO= 0.000  
MAX UN=0.3911E-01 IEQ= 43 NODE 22 DOF 1 Y-DISPL.F  
MIN UN=-.3663E-09 IEQ= 5 NODE 3 DOF 1 Y-DISPL.F  
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 6 RNORM =0.3480E+05 RMNORM= 0.000  
RINORM=0.1104E+06 RIMNOR=0.1936E+06  
RENORM=0.4854E-18 REMNOR=0.1290E-20 RATIO =0.2097E-11 TOLER =0.1000E-03 CONVERGED !  
RFMAX = 181.0 RMMAX = 95.57  
RTSMAL=0.1000E-02 RMSMAL=0.1000E-03  
RDT =0.1104E+06 RDR =0.1936E+06  
RATIOT=0.2097E-11 RATIO= 0.000  
MAX UN=0.3468E-09 IEQ= 3 NODE 2 DOF 1 Y-DISPL.F  
MIN UN=-.3762E-09 IEQ= 5 NODE 3 DOF 1 Y-DISPL.F  
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
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New Project
SOLUTION REACHED USING      6 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   6   ( AT TIME   6.000   )

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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	5.2410586E-03	-1.1305412E-03	
2	5.0149503E-03	-1.1305412E-03	
3	4.7888444E-03	-1.1305072E-03	
4	4.5627567E-03	-1.1303347E-03	
5	4.3367316E-03	-1.1298460E-03	
6	4.1108563E-03	-1.1287869E-03	
7	3.8852770E-03	-1.1268251E-03	
8	3.6602136E-03	-1.1235531E-03	
9	3.4359751E-03	-1.1184908E-03	
10	3.2129735E-03	-1.1110859E-03	
11	2.9917385E-03	-1.1007145E-03	
12	2.7729318E-03	-1.0866814E-03	
13	2.5573611E-03	-1.0682206E-03	
14	2.3459945E-03	-1.0444954E-03	
15	2.1399744E-03	-1.0145981E-03	
16	1.9406319E-03	-9.7755069E-04	
17	1.7494998E-03	-9.3230403E-04	
18	1.5683306E-03	-8.7773905E-04	
19	1.3991048E-03	-8.1266526E-04	
20	1.2440491E-03	-7.3582201E-04	
21	1.1056500E-03	-6.4587833E-04	
22	9.8578280E-04	-5.5466991E-04	
23	8.8308197E-04	-4.7396290E-04	
24	7.9560048E-04	-4.0221335E-04	
25	7.2170712E-04	-3.3780649E-04	
26	6.6010074E-04	-2.7905676E-04	
27	6.0960417E-04	-2.2751436E-04	
28	5.6850705E-04	-1.8479500E-04	
29	5.3519708E-04	-1.4941202E-04	
30	5.0833876E-04	-1.2008132E-04	
31	4.8683315E-04	-9.5721583E-05	
32	4.6977738E-04	-7.5454291E-05	
33	4.5642377E-04	-5.8603354E-05	
34	4.4613982E-04	-4.4695672E-05	
35	4.3836918E-04	-3.3432692E-05	
36	4.3260577E-04	-2.4584349E-05	
37	4.2839086E-04	-1.7905079E-05	
38	4.2531652E-04	-1.3134293E-05	
39	4.2302749E-04	-1.0008261E-05	
40	4.2122076E-04	-8.2691237E-06	
41	4.1964374E-04	-7.6715567E-06	
42	4.1809124E-04	-7.9874131E-06	
43	4.1640175E-04	-9.0086193E-06	
44	4.1445319E-04	-1.0548824E-05	
45	4.1215854E-04	-1.2444353E-05	
46	4.0946117E-04	-1.4554327E-05	
47	4.0633043E-04	-1.6759997E-05	
48	4.0275730E-04	-1.8963667E-05	
49	3.9875030E-04	-2.1087239E-05	
50	3.9433178E-04	-2.3070540E-05	
51	3.8953439E-04	-2.4869612E-05	
52	3.8439806E-04	-2.6454938E-05	
53	3.7896794E-04	-2.7809591E-05	
54	3.7329023E-04	-2.8928176E-05	
55	3.6741213E-04	-2.9814886E-05	
56	3.6137887E-04	-3.0482644E-05	
57	3.5523229E-04	-3.0952069E-05	
58	3.4900943E-04	-3.1250708E-05	
59	3.4274114E-04	-3.1412480E-05	
60	3.3645090E-04	-3.1477296E-05	
61	3.3015332E-04	-3.1490819E-05	





1.000	1.000	77.62	0.000	0.000	Ug5_2_8_L_0					
34 D	16.01	-4.4614E-04	98.47	31.41	98.47	53.90	ACTIVE	0.000	-6.600	48.63
1.000	1.000	80.04	0.000	0.000	Ug5_2_8_L_0					
35 D	16.68	-4.3837E-04	101.3	33.28	101.3	54.86	UL-RL	4.3817E+04	-6.800	50.11
1.000	1.000	83.38	0.000	0.000	Ug5_2_8_L_0					
36 D	17.40	-4.3261E-04	104.8	35.44	104.8	55.81	UL-RL	4.3817E+04	-7.000	51.58
1.000	1.000	87.02	0.000	0.000	Ug5_2_8_L_0					
37 D	18.07	-4.2839E-04	107.6	37.31	107.6	56.75	UL-RL	4.3817E+04	-7.200	53.05
1.000	1.000	90.36	0.000	0.000	Ug5_2_8_L_0					
38 D	18.69	-4.2532E-04	111.0	38.94	111.0	57.68	UL-RL	4.3817E+04	-7.400	54.53
1.000	1.000	93.47	0.000	0.000	Ug5_2_8_L_0					
39 D	19.28	-4.2303E-04	113.8	40.39	113.8	58.60	UL-RL	4.3817E+04	-7.600	56.00
1.000	1.000	96.39	0.000	0.000	Ug5_2_8_L_0					
40 D	19.84	-4.2122E-04	117.1	41.71	117.1	59.52	UL-RL	4.3817E+04	-7.800	57.47
1.000	1.000	99.18	0.000	0.000	Ug5_2_8_L_0					
41 D	20.37	-4.1964E-04	120.4	42.92	120.4	60.43	UL-RL	4.3817E+04	-8.000	58.95
1.000	1.000	101.9	0.000	0.000	Ug5_2_8_L_0					
42 D	20.90	-4.1809E-04	123.2	44.07	123.2	61.34	UL-RL	4.3817E+04	-8.200	60.42
1.000	1.000	104.5	0.000	0.000	Ug5_2_8_L_0					
43 D	21.41	-4.1640E-04	126.4	45.18	126.4	62.25	UL-RL	4.3817E+04	-8.400	61.89
1.000	1.000	107.1	0.000	0.000	Ug5_2_8_L_0					
44 D	21.93	-4.1445E-04	129.2	46.26	129.2	63.15	UL-RL	4.3817E+04	-8.600	63.37
1.000	1.000	109.6	0.000	0.000	Ug5_2_8_L_0					
45 D	22.44	-4.1216E-04	132.4	47.35	132.4	64.04	UL-RL	4.3817E+04	-8.800	64.84
1.000	1.000	112.2	0.000	0.000	Ug5_2_8_L_0					
46 D	22.95	-4.0946E-04	135.1	48.45	135.1	64.93	UL-RL	4.3817E+04	-9.000	66.32
1.000	1.000	114.8	0.000	0.000	Ug5_2_8_L_0					
47 D	23.47	-4.0633E-04	138.3	49.58	138.3	65.83	UL-RL	4.3817E+04	-9.200	67.79
1.000	1.000	117.4	0.000	0.000	Ug5_2_8_L_0					
48 D	24.00	-4.0276E-04	141.0	50.73	141.0	66.71	UL-RL	4.3817E+04	-9.400	69.26
1.000	1.000	120.0	0.000	0.000	Ug5_2_8_L_0					
49 D	24.53	-3.9875E-04	144.1	51.91	144.1	67.60	UL-RL	4.3817E+04	-9.600	70.74
1.000	1.000	122.6	0.000	0.000	Ug5_2_8_L_0					
50 D	25.07	-3.9433E-04	146.8	53.13	146.8	68.49	UL-RL	4.3817E+04	-9.800	72.21
1.000	1.000	125.3	0.000	0.000	Ug5_2_8_L_0					
51 D	25.61	-3.8953E-04	149.9	54.37	149.9	69.37	UL-RL	4.3817E+04	-10.00	73.68
1.000	1.000	128.1	0.000	0.000	Ug5_2_8_L_0					
52 D	26.16	-3.8440E-04	152.6	55.65	152.6	70.25	UL-RL	4.3817E+04	-10.20	75.16
1.000	1.000	130.8	0.000	0.000	Ug5_2_8_L_0					
53 D	26.72	-3.7897E-04	155.7	56.96	155.7	71.13	UL-RL	4.3817E+04	-10.40	76.63
1.000	1.000	133.6	0.000	0.000	Ug5_2_8_L_0					
54 D	27.28	-3.7329E-04	158.7	58.29	158.7	72.02	UL-RL	4.3817E+04	-10.60	78.11
1.000	1.000	136.4	0.000	0.000	Ug5_2_8_L_0					
55 D	27.85	-3.6741E-04	161.4	59.65	161.4	72.90	UL-RL	4.3817E+04	-10.80	79.58
1.000	1.000	139.2	0.000	0.000	Ug5_2_8_L_0					
56 D	28.41	-3.6138E-04	164.4	61.02	164.4	73.78	UL-RL	4.3817E+04	-11.00	81.05
1.000	1.000	142.1	0.000	0.000	Ug5_2_8_L_0					
57 D	28.98	-3.5523E-04	167.1	62.40	167.1	74.66	UL-RL	4.3817E+04	-11.20	82.53
1.000	1.000	144.9	0.000	0.000	Ug5_2_8_L_0					
58 D	29.56	-3.4901E-04	170.1	63.79	170.1	75.54	UL-RL	4.3817E+04	-11.40	84.00
1.000	1.000	147.8	0.000	0.000	Ug5_2_8_L_0					
59 D	30.13	-3.4274E-04	172.8	65.18	172.8	76.42	UL-RL	4.3817E+04	-11.60	85.47
1.000	1.000	150.7	0.000	0.000	Ug5_2_8_L_0					
60 D	30.71	-3.3645E-04	175.8	66.58	175.8	77.30	UL-RL	4.3817E+04	-11.80	86.95
1.000	1.000	153.5	0.000	0.000	Ug5_2_8_L_0					
61 D	15.64	-3.3015E-04	178.4	67.98	178.4	78.18	UL-RL	4.3817E+04	-12.00	88.42
1.000	1.000	156.4	0.000	0.000	Ug5_2_8_L_0					



1.000	1.000	64.91	0.000	0.000	Ug5_2_8_L_0					
34 D	14.47	4.4614E-04	11.79	52.13	66.00	52.80	UL-RL	2.7960E+04	-6.600	20.21
1.000	1.000	72.34	0.000	0.000	Ug5_2_8_L_0					
35 D	15.07	4.3837E-04	13.26	52.62	68.00	53.54	UL-RL	2.7960E+04	-6.800	22.74
1.000	1.000	75.36	0.000	0.000	Ug5_2_8_L_0					
36 D	15.65	4.3261E-04	14.74	52.99	70.00	54.41	UL-RL	2.7960E+04	-7.000	25.26
1.000	1.000	78.26	0.000	0.000	Ug5_2_8_L_0					
37 D	16.26	4.2839E-04	16.21	53.52	72.00	55.28	UL-RL	2.7960E+04	-7.200	27.79
1.000	1.000	81.31	0.000	0.000	Ug5_2_8_L_0					
38 D	16.90	4.2532E-04	17.68	54.17	74.00	56.13	UL-RL	2.7960E+04	-7.400	30.32
1.000	1.000	84.49	0.000	0.000	Ug5_2_8_L_0					
39 D	17.55	4.2303E-04	19.16	54.91	76.00	56.98	UL-RL	2.7960E+04	-7.600	32.84
1.000	1.000	87.75	0.000	0.000	Ug5_2_8_L_0					
40 D	18.21	4.2122E-04	20.63	55.69	78.00	57.84	UL-RL	2.7960E+04	-7.800	35.37
1.000	1.000	91.06	0.000	0.000	Ug5_2_8_L_0					
41 D	18.88	4.1964E-04	22.11	56.50	80.00	58.70	UL-RL	2.7960E+04	-8.000	37.89
1.000	1.000	94.40	0.000	0.000	Ug5_2_8_L_0					
42 D	19.55	4.1809E-04	23.58	57.32	82.00	59.56	UL-RL	2.7960E+04	-8.200	40.42
1.000	1.000	97.74	0.000	0.000	Ug5_2_8_L_0					
43 D	20.22	4.1640E-04	25.05	58.14	84.00	60.42	UL-RL	2.7960E+04	-8.400	42.95
1.000	1.000	101.1	0.000	0.000	Ug5_2_8_L_0					
44 D	20.89	4.1445E-04	26.53	58.96	86.00	61.28	UL-RL	2.7960E+04	-8.600	45.47
1.000	1.000	104.4	0.000	0.000	Ug5_2_8_L_0					
45 D	21.55	4.1216E-04	28.00	59.77	88.00	62.13	UL-RL	2.7960E+04	-8.800	48.00
1.000	1.000	107.8	0.000	0.000	Ug5_2_8_L_0					
46 D	22.22	4.0946E-04	29.47	60.56	90.00	62.98	UL-RL	2.7960E+04	-9.000	50.53
1.000	1.000	111.1	0.000	0.000	Ug5_2_8_L_0					
47 D	22.87	4.0633E-04	30.95	61.32	92.00	63.83	UL-RL	2.7960E+04	-9.200	53.05
1.000	1.000	114.4	0.000	0.000	Ug5_2_8_L_0					
48 D	23.53	4.0276E-04	32.42	62.06	94.00	64.67	UL-RL	2.7960E+04	-9.400	55.58
1.000	1.000	117.6	0.000	0.000	Ug5_2_8_L_0					
49 D	24.18	3.9875E-04	33.89	62.78	96.00	65.51	UL-RL	2.7960E+04	-9.600	58.11
1.000	1.000	120.9	0.000	0.000	Ug5_2_8_L_0					
50 D	24.82	3.9433E-04	35.37	63.46	98.00	66.36	UL-RL	2.7960E+04	-9.800	60.63
1.000	1.000	124.1	0.000	0.000	Ug5_2_8_L_0					
51 D	25.46	3.8953E-04	36.84	64.12	100.00	67.20	UL-RL	2.7960E+04	-10.000	63.16
1.000	1.000	127.3	0.000	0.000	Ug5_2_8_L_0					
52 D	26.09	3.8440E-04	38.32	64.76	102.0	68.03	UL-RL	2.7960E+04	-10.200	65.68
1.000	1.000	130.4	0.000	0.000	Ug5_2_8_L_0					
53 D	26.72	3.7897E-04	39.79	65.37	104.0	68.87	UL-RL	2.7960E+04	-10.400	68.21
1.000	1.000	133.6	0.000	0.000	Ug5_2_8_L_0					
54 D	27.34	3.7329E-04	41.26	65.96	106.0	69.71	UL-RL	2.7960E+04	-10.600	70.74
1.000	1.000	136.7	0.000	0.000	Ug5_2_8_L_0					
55 D	27.96	3.6741E-04	42.74	66.54	108.0	70.55	UL-RL	2.7960E+04	-10.800	73.26
1.000	1.000	139.8	0.000	0.000	Ug5_2_8_L_0					
56 D	28.58	3.6138E-04	44.21	67.11	110.0	71.39	UL-RL	2.7960E+04	-11.000	75.79
1.000	1.000	142.9	0.000	0.000	Ug5_2_8_L_0					
57 D	29.20	3.5523E-04	45.68	67.66	112.0	72.22	UL-RL	2.7960E+04	-11.200	78.32
1.000	1.000	146.0	0.000	0.000	Ug5_2_8_L_0					
58 D	29.81	3.4901E-04	47.16	68.21	114.0	73.06	UL-RL	2.7960E+04	-11.400	80.84
1.000	1.000	149.1	0.000	0.000	Ug5_2_8_L_0					
59 D	30.42	3.4274E-04	48.63	68.75	116.0	73.90	UL-RL	2.7960E+04	-11.600	83.37
1.000	1.000	152.1	0.000	0.000	Ug5_2_8_L_0					
60 D	31.04	3.3645E-04	50.11	69.29	118.0	74.74	UL-RL	2.7960E+04	-11.800	85.89
1.000	1.000	155.2	0.000	0.000	Ug5_2_8_L_0					
61 D	15.83	3.3015E-04	51.58	69.83	120.0	75.57	UL-RL	2.7960E+04	-12.000	88.42
1.000	1.000	158.3	0.000	0.000	Ug5_2_8_L_0					



MIN UN=-322.3 IEQ= 49 NODE 25 DOF 1 Y-DISPL.F  
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 2 RNORM =0.1618E+06 RMNORM= 0.000  
RINORM=0.1692E+06 RIMNOR=0.2362E+06  
RENORM= 405.5 REMNOR=0.1876E-20 RATIO =0.4895E-01 TOLER =0.1000E-03 NOT CONVERGED  
RFMAX = 322.0 RMMAX = 132.4  
RTSMAL=0.1000E-02 RMSMAL=0.1000E-02  
RDT =0.1692E+06 RDR =0.2362E+06  
RATIOT=0.4895E-01 RATIOOR= 0.000  
MAX UN= 3.225 IEQ= 3 NODE 2 DOF 1 Y-DISPL.F  
MIN UN=-9.134 IEQ= 63 NODE 32 DOF 1 Y-DISPL.F  
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 3 RNORM =0.1618E+06 RMNORM= 0.000  
RINORM=0.1692E+06 RIMNOR=0.2362E+06  
RENORM= 13.88 REMNOR=0.3892E-20 RATIO =0.9058E-02 TOLER =0.1000E-03 NOT CONVERGED  
RFMAX = 322.0 RMMAX = 132.4  
RTSMAL=0.1000E-02 RMSMAL=0.1000E-02  
RDT =0.1692E+06 RDR =0.2362E+06  
RATIOT=0.9058E-02 RATIOOR= 0.000  
MAX UN= 1.455 IEQ= 19 NODE 10 DOF 1 Y-DISPL.F  
MIN UN=-1.888 IEQ= 71 NODE 36 DOF 1 Y-DISPL.F  
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 4 RNORM =0.1618E+06 RMNORM= 0.000  
RINORM=0.1692E+06 RIMNOR=0.2362E+06  
RENORM=0.3134E-01 REMNOR=0.1119E-20 RATIO =0.4304E-03 TOLER =0.1000E-03 NOT CONVERGED  
RFMAX = 322.0 RMMAX = 132.4  
RTSMAL=0.1000E-02 RMSMAL=0.1000E-02  
RDT =0.1692E+06 RDR =0.2362E+06  
RATIOT=0.4304E-03 RATIOOR= 0.000  
MAX UN=0.7615E-01 IEQ= 105 NODE 53 DOF 1 Y-DISPL.F  
MIN UN=-.1187 IEQ= 27 NODE 14 DOF 1 Y-DISPL.F  
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 5 RNORM =0.1618E+06 RMNORM= 0.000  
RINORM=0.1692E+06 RIMNOR=0.2362E+06  
RENORM=0.2693E-01 REMNOR=0.2133E-20 RATIO =0.3989E-03 TOLER =0.1000E-03 NOT CONVERGED  
RFMAX = 322.0 RMMAX = 132.4  
RTSMAL=0.1000E-02 RMSMAL=0.1000E-02  
RDT =0.1692E+06 RDR =0.2362E+06  
RATIOT=0.3989E-03 RATIOOR= 0.000  
MAX UN=0.6007E-01 IEQ= 3 NODE 2 DOF 1 Y-DISPL.F  
MIN UN=-.2510E-02 IEQ= 89 NODE 45 DOF 1 Y-DISPL.F  
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 6 RNORM =0.1618E+06 RMNORM= 0.000  
RINORM=0.1692E+06 RIMNOR=0.2362E+06  
RENORM=0.2003E-03 REMNOR=0.2197E-20 RATIO =0.3440E-04 TOLER =0.1000E-03 CONVERGED !  
RFMAX = 322.0 RMMAX = 132.4  
RTSMAL=0.1000E-02 RMSMAL=0.1000E-02  
RDT =0.1692E+06 RDR =0.2362E+06  
RATIOT=0.3440E-04 RATIOOR= 0.000  
MAX UN=0.6603E-03 IEQ= 105 NODE 53 DOF 1 Y-DISPL.F  
MIN UN=-.7951E-02 IEQ= 35 NODE 18 DOF 1 Y-DISPL.F  
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
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New Project
SOLUTION REACHED USING      6 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   7   ( AT TIME   7.000   )

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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	7.0386940E-03	-1.9872668E-03	
2	6.6412406E-03	-1.9872668E-03	
3	6.2437895E-03	-1.9872338E-03	
4	5.8463561E-03	-1.9870666E-03	
5	5.4489832E-03	-1.9865932E-03	
6	5.0517556E-03	-1.9855682E-03	
7	4.6548142E-03	-1.9836704E-03	
8	4.2583718E-03	-1.9805061E-03	
9	3.8627271E-03	-1.9756116E-03	
10	3.4682781E-03	-1.9684539E-03	
11	3.0755365E-03	-1.9584307E-03	
12	2.6851415E-03	-1.9448714E-03	
13	2.2978763E-03	-1.9269872E-03	
14	1.9147016E-03	-1.9037793E-03	
15	1.5368027E-03	-1.8739998E-03	
16	1.1656360E-03	-1.8362050E-03	
17	8.0295908E-04	-1.7888075E-03	
18	4.5086668E-04	-1.7300776E-03	
19	1.1180822E-04	-1.6581449E-03	
20	-2.1137724E-04	-1.5710018E-03	
21	-5.1543420E-04	-1.4665069E-03	
22	-7.9666991E-04	-1.3423837E-03	
23	-1.0509187E-03	-1.1962260E-03	
24	-1.2735224E-03	-1.0254989E-03	
25	-1.4593031E-03	-8.2754462E-04	
26	-1.6041103E-03	-6.2314208E-04	
27	-1.7095079E-03	-4.3296579E-04	
28	-1.7780462E-03	-2.5404099E-04	
29	-1.8116707E-03	-8.3312111E-05	
30	-1.8117087E-03	8.2351015E-05	
31	-1.7788551E-03	2.4614217E-04	
32	-1.7143357E-03	3.9368060E-04	
33	-1.6234254E-03	5.1058597E-04	
34	-1.5119310E-03	6.0004700E-04	
35	-1.3850277E-03	6.6519009E-04	
36	-1.2472720E-03	7.0907775E-04	
37	-1.1026144E-03	7.3471031E-04	
38	-9.5440984E-04	7.4502370E-04	
39	-8.0544249E-04	7.4277334E-04	
40	-6.5797554E-04	7.3039747E-04	
41	-5.1381483E-04	7.1005160E-04	
42	-3.7435618E-04	6.8368655E-04	
43	-2.4062366E-04	6.5306981E-04	
44	-1.1330576E-04	6.1979051E-04	
45	7.2088982E-06	5.8526543E-04	
46	1.2080013E-04	5.5074517E-04	
47	2.2757834E-04	5.1729557E-04	
48	3.2784652E-04	4.8576845E-04	
49	4.2205647E-04	4.5680260E-04	
50	5.1076706E-04	4.3083595E-04	
51	5.9460687E-04	4.0811629E-04	
52	6.7423657E-04	3.8871181E-04	
53	7.5030641E-04	3.7255614E-04	
54	8.2346146E-04	3.5949453E-04	
55	8.9429640E-04	3.4931552E-04	
56	9.6336232E-04	3.4175619E-04	
57	1.0311527E-03	3.3650354E-04	
58	1.0980933E-03	3.3319491E-04	
59	1.1645327E-03	3.3141819E-04	
60	1.2307320E-03	3.3071199E-04	
61	1.2968582E-03	3.3056565E-04	

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|                PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*                |
|                                                                                                                                            |
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|                NewProject.BaseDesignSection_28.A2M2R1_1787                                                                              |
|                Exe Time :24 May 2018  18:23:41                                                                                          |
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New Project

STRESS RESULTS FOR GROUP NO. 1

0\_L  
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 61  
CURRENT TIME IS 7.0000

HARDENING 2D SOIL ELEMENT

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

EL * FACTOR	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
1 D	0.000	-7.0387E-03	0.000	0.000	0.000	0.000	ACTIVE	0.000	0.000	0.000	
1.000	1.000	0.000	0.000	0.000	Ug5_2_8_L_0						
2 D	0.4520	-6.6412E-03	2.815	0.9268	2.815	5.490	UL-RL	3.6514E+04	-0.2000	1.333	
1.000	1.000	2.260	0.000	0.000	Ug5_2_8_L_0						
3 D	0.9301	-6.2438E-03	6.112	1.984	6.112	8.815	UL-RL	3.6514E+04	-0.4000	2.667	
1.000	1.000	4.651	0.000	0.000	Ug5_2_8_L_0						
4 D	1.421	-5.8464E-03	9.608	3.105	9.608	11.65	UL-RL	3.6514E+04	-0.6000	4.000	
1.000	1.000	7.105	0.000	0.000	Ug5_2_8_L_0						
5 D	1.937	-5.4490E-03	13.50	4.350	13.50	14.00	UL-RL	3.6514E+04	-0.8000	5.333	
1.000	1.000	9.684	0.000	0.000	Ug5_2_8_L_0						
6 D	2.452	-5.0518E-03	17.38	5.594	17.38	16.11	UL-RL	3.6514E+04	-1.000	6.667	
1.000	1.000	12.26	0.000	0.000	Ug5_2_8_L_0						
7 D	2.932	-4.6548E-03	20.71	6.662	20.71	18.11	UL-RL	3.6514E+04	-1.200	8.000	
1.000	1.000	14.66	0.000	0.000	Ug5_2_8_L_0						
8 D	3.405	-4.2584E-03	23.92	7.691	23.92	20.02	UL-RL	3.6514E+04	-1.400	9.333	
1.000	1.000	17.02	0.000	0.000	Ug5_2_8_L_0						
9 D	3.885	-3.8627E-03	27.24	8.756	27.24	21.87	UL-RL	3.6514E+04	-1.600	10.67	
1.000	1.000	19.42	0.000	0.000	Ug5_2_8_L_0						
10 D	4.349	-3.4683E-03	30.32	9.743	30.32	23.65	UL-RL	3.6514E+04	-1.800	12.00	
1.000	1.000	21.74	0.000	0.000	Ug5_2_8_L_0						
11 D	4.821	-3.0755E-03	33.53	10.77	33.53	25.38	UL-RL	3.6514E+04	-2.000	13.33	
1.000	1.000	24.10	0.000	0.000	Ug5_2_8_L_0						
12 D	5.963	-2.6851E-03	36.57	15.15	36.57	27.06	UL-RL	3.6514E+04	-2.200	14.67	
1.000	1.000	29.82	0.000	0.000	Ug5_2_8_L_0						
13 D	7.690	-2.2979E-03	39.73	22.45	39.73	28.68	UL-RL	3.6514E+04	-2.400	16.00	
1.000	1.000	38.45	0.000	0.000	Ug5_2_8_L_0						
14 D	9.374	-1.9147E-03	42.76	29.53	42.76	30.34	UL-RL	3.6514E+04	-2.600	17.33	
1.000	1.000	46.87	0.000	0.000	Ug5_2_8_L_0						
15 D	10.36	-1.5368E-03	45.91	33.14	45.91	33.71	UL-RL	3.6514E+04	-2.800	18.67	
1.000	1.000	51.81	0.000	0.000	Ug5_2_8_L_0						
16 D	11.34	-1.1656E-03	48.95	36.70	48.95	37.03	UL-RL	3.6514E+04	-3.000	20.00	
1.000	1.000	56.70	0.000	0.000	Ug5_2_8_L_0						
17 D	12.31	-8.0296E-04	52.10	40.23	52.10	40.34	UL-RL	3.6514E+04	-3.200	21.33	
1.000	1.000	61.56	0.000	0.000	Ug5_2_8_L_0						
18 D	13.25	-4.5087E-04	55.15	43.59	55.15	43.65	UL-RL	3.6514E+04	-3.400	22.67	
1.000	1.000	66.26	0.000	0.000	Ug5_2_8_L_0						
19 D	14.18	-1.1181E-04	58.22	46.89	58.22	46.94	UL-RL	3.6514E+04	-3.600	24.00	
1.000	1.000	70.89	0.000	0.000	Ug5_2_8_L_0						
20 D	15.10	2.1138E-04	61.37	50.15	61.37	50.19	UL-RL	3.6514E+04	-3.800	25.33	
1.000	1.000	75.48	0.000	0.000	Ug5_2_8_L_0						
21 D	16.00	5.1543E-04	64.44	53.34	64.44	53.38	UL-RL	3.6514E+04	-4.000	26.67	
1.000	1.000	80.01	0.000	0.000	Ug5_2_8_L_0						
22 D	16.89	7.9667E-04	67.58	56.47	67.58	56.50	UL-RL	3.6514E+04	-4.200	28.00	
1.000	1.000	84.47	0.000	0.000	Ug5_2_8_L_0						
23 D	17.76	1.0509E-03	70.66	59.45	70.66	59.47	UL-RL	3.6514E+04	-4.400	29.33	
1.000	1.000	88.78	0.000	0.000	Ug5_2_8_L_0						
24 D	18.58	1.2735E-03	73.80	62.21	73.80	62.23	UL-RL	3.6514E+04	-4.600	30.67	
1.000	1.000	92.88	0.000	0.000	Ug5_2_8_L_0						
25 D	19.33	1.4593E-03	76.88	64.67	76.88	64.68	UL-RL	3.6514E+04	-4.800	32.00	
1.000	1.000	96.67	0.000	0.000	Ug5_2_8_L_0						
26 D	20.02	1.6041E-03	79.95	66.75	79.95	66.76	UL-RL	3.6514E+04	-5.000	33.33	
1.000	1.000	100.1	0.000	0.000	Ug5_2_8_L_0						
27 D	20.63	1.7095E-03	82.79	68.46	82.79	68.46	UL-RL	3.6514E+04	-5.200	34.67	
1.000	1.000	103.1	0.000	0.000	Ug5_2_8_L_0						
28 D	21.16	1.7780E-03	85.65	69.81	85.65	69.82	UL-RL	3.6514E+04	-5.400	36.00	
1.000	1.000	105.8	0.000	0.000	Ug5_2_8_L_0						
29 D	21.63	1.8117E-03	88.51	70.83	88.51	70.83	V-C	1.2171E+04	-5.600	37.33	
1.000	1.000	108.2	0.000	0.000	Ug5_2_8_L_0						
30 D	22.03	1.8117E-03	91.37	71.50	91.37	71.50	V-C	1.2171E+04	-5.800	38.67	
1.000	1.000	110.2	0.000	0.000	Ug5_2_8_L_0						
31 D	22.36	1.7789E-03	94.24	71.82	94.24	71.82	V-C	1.2171E+04	-6.000	40.00	
1.000	1.000	111.8	0.000	0.000	Ug5_2_8_L_0						
32 D	22.63	1.7143E-03	97.11	71.81	97.11	71.81	V-C	1.2171E+04	-6.200	41.33	
1.000	1.000	113.1	0.000	0.000	Ug5_2_8_L_0						
33 D	22.83	1.6234E-03	99.98	71.50	99.98	71.50	V-C	1.2171E+04	-6.400	42.67	

1.000	1.000	114.2	0.000	0.000	Ug5_2_8_L_0					
34 D	23.00	1.5119E-03	103.1	71.01	103.1	71.01	V-C	1.2171E+04	-6.600	44.00
1.000	1.000	115.0	0.000	0.000	Ug5_2_8_L_0					
35 D	23.20	1.3850E-03	106.1	70.65	106.1	70.65	V-C	1.2171E+04	-6.800	45.33
1.000	1.000	116.0	0.000	0.000	Ug5_2_8_L_0					
36 D	23.39	1.2473E-03	109.7	70.28	109.7	70.28	V-C	1.2171E+04	-7.000	46.67
1.000	1.000	116.9	0.000	0.000	Ug5_2_8_L_0					
37 D	23.55	1.1026E-03	112.7	69.74	112.7	69.74	V-C	1.2171E+04	-7.200	48.00
1.000	1.000	117.7	0.000	0.000	Ug5_2_8_L_0					
38 D	23.68	9.5441E-04	116.2	69.09	116.2	69.09	V-C	1.2171E+04	-7.400	49.33
1.000	1.000	118.4	0.000	0.000	Ug5_2_8_L_0					
39 D	23.81	8.0544E-04	119.1	68.37	119.1	68.37	V-C	1.2171E+04	-7.600	50.67
1.000	1.000	119.0	0.000	0.000	Ug5_2_8_L_0					
40 D	23.93	6.5798E-04	122.6	67.63	122.6	67.63	V-C	1.2171E+04	-7.800	52.00
1.000	1.000	119.6	0.000	0.000	Ug5_2_8_L_0					
41 D	24.05	5.1381E-04	126.0	66.89	126.0	66.89	V-C	1.2171E+04	-8.000	53.33
1.000	1.000	120.2	0.000	0.000	Ug5_2_8_L_0					
42 D	24.17	3.7436E-04	128.9	66.19	128.9	66.19	V-C	1.2171E+04	-8.200	54.67
1.000	1.000	120.9	0.000	0.000	Ug5_2_8_L_0					
43 D	24.31	2.4062E-04	132.3	65.53	132.3	65.54	UL-RL	3.6514E+04	-8.400	56.00
1.000	1.000	121.5	0.000	0.000	Ug5_2_8_L_0					
44 D	24.46	1.1331E-04	135.2	64.94	135.2	64.95	UL-RL	3.6514E+04	-8.600	57.33
1.000	1.000	122.3	0.000	0.000	Ug5_2_8_L_0					
45 D	24.62	-7.2089E-06	138.5	64.43	138.5	64.44	UL-RL	3.6514E+04	-8.800	58.67
1.000	1.000	123.1	0.000	0.000	Ug5_2_8_L_0					
46 D	24.43	-1.2080E-04	141.4	62.15	141.4	64.93	UL-RL	3.6514E+04	-9.000	60.00
1.000	1.000	122.2	0.000	0.000	Ug5_2_8_L_0					
47 D	24.13	-2.2758E-04	144.7	59.33	144.7	65.83	UL-RL	3.6514E+04	-9.200	61.33
1.000	1.000	120.7	0.000	0.000	Ug5_2_8_L_0					
48 D	23.89	-3.2785E-04	147.6	56.76	147.6	66.71	UL-RL	3.6514E+04	-9.400	62.67
1.000	1.000	119.4	0.000	0.000	Ug5_2_8_L_0					
49 D	23.69	-4.2206E-04	150.8	54.43	150.8	67.60	UL-RL	3.6514E+04	-9.600	64.00
1.000	1.000	118.4	0.000	0.000	Ug5_2_8_L_0					
50 D	23.53	-5.1077E-04	153.7	52.31	153.7	68.49	UL-RL	3.6514E+04	-9.800	65.33
1.000	1.000	117.6	0.000	0.000	Ug5_2_8_L_0					
51 D	23.41	-5.9461E-04	156.9	50.39	156.9	69.37	UL-RL	3.6514E+04	-10.00	66.67
1.000	1.000	117.1	0.000	0.000	Ug5_2_8_L_0					
52 D	23.79	-6.7424E-04	159.8	50.97	159.8	70.25	UL-RL	3.6514E+04	-10.20	68.00
1.000	1.000	119.0	0.000	0.000	Ug5_2_8_L_0					
53 D	24.26	-7.5031E-04	163.0	51.99	163.0	71.13	UL-RL	3.6514E+04	-10.40	69.33
1.000	1.000	121.3	0.000	0.000	Ug5_2_8_L_0					
54 D	24.74	-8.2346E-04	166.2	53.01	166.2	72.02	UL-RL	3.6514E+04	-10.60	70.67
1.000	1.000	123.7	0.000	0.000	Ug5_2_8_L_0					
55 D	25.18	-8.9430E-04	169.0	53.91	169.0	72.90	UL-RL	3.6514E+04	-10.80	72.00
1.000	1.000	125.9	0.000	0.000	Ug5_2_8_L_0					
56 D	25.65	-9.6336E-04	172.2	54.92	172.2	73.78	UL-RL	3.6514E+04	-11.00	73.33
1.000	1.000	128.3	0.000	0.000	Ug5_2_8_L_0					
57 D	26.10	-1.0312E-03	175.0	55.81	175.0	74.66	ACTIVE	0.000	-11.20	74.67
1.000	1.000	130.5	0.000	0.000	Ug5_2_8_L_0					
58 D	26.56	-1.0981E-03	178.1	56.82	178.1	75.54	ACTIVE	0.000	-11.40	76.00
1.000	1.000	132.8	0.000	0.000	Ug5_2_8_L_0					
59 D	27.01	-1.1645E-03	180.9	57.71	180.9	76.42	ACTIVE	0.000	-11.60	77.33
1.000	1.000	135.0	0.000	0.000	Ug5_2_8_L_0					
60 D	27.48	-1.2307E-03	184.0	58.71	184.0	77.30	ACTIVE	0.000	-11.80	78.67
1.000	1.000	137.4	0.000	0.000	Ug5_2_8_L_0					
61 D	13.96	-1.2969E-03	186.8	59.60	186.8	78.18	ACTIVE	0.000	-12.00	80.00
1.000	1.000	139.6	0.000	0.000	Ug5_2_8_L_0					



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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*          |
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|          NewProject.BaseDesignSection_28.A2M2R1_1787          |
|          Exe Time :24 May 2018          18:23:41          |
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New Project

STRESS RESULTS FOR GROUP NO. 2

0\_R  
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 61  
CURRENT TIME IS 7.0000

HARDENING 2D SOIL ELEMENT

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

EL * FACTOR	FORCE UFACOR	DISPL-Y Peq	VERTICAL-P Su_a	HORIZON.-P Su_p	MAX-V-P LAYER	MAX-H-P	STATE	STIFFNESS	Z-LEVEL	PORE	E
1	0.000	--	--	--	--	--	REMOVED	--	0.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
2	0.000	--	--	--	--	--	REMOVED	--	-0.2000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
3	0.000	--	--	--	--	--	REMOVED	--	-0.4000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
4	0.000	--	--	--	--	--	REMOVED	--	-0.6000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
5	0.000	--	--	--	--	--	REMOVED	--	-0.8000	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	--	-1.200	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
8	0.000	--	--	--	--	--	REMOVED	--	-1.400	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
9	0.000	--	--	--	--	--	REMOVED	--	-1.600	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
10	0.000	--	--	--	--	--	REMOVED	--	-1.800	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
11	0.000	--	--	--	--	--	REMOVED	--	-2.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
12	0.000	--	--	--	--	--	REMOVED	--	-2.200	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
13	0.000	--	--	--	--	--	REMOVED	--	-2.400	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
14	0.000	--	--	--	--	--	REMOVED	--	-2.600	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
15	0.000	--	--	--	--	--	REMOVED	--	-2.800	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
16	0.000	--	--	--	--	--	REMOVED	--	-3.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
17	0.000	--	--	--	--	--	REMOVED	--	-3.200	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
18	0.000	--	--	--	--	--	REMOVED	--	-3.400	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
19	0.000	--	--	--	--	--	REMOVED	--	-3.600	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
20	0.000	--	--	--	--	--	REMOVED	--	-3.800	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
21	0.000	--	--	--	--	--	REMOVED	--	-4.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
22	0.000	--	--	--	--	--	REMOVED	--	-4.200	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
23	0.000	--	--	--	--	--	REMOVED	--	-4.400	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
24	0.000	--	--	--	--	--	REMOVED	--	-4.600	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
25	0.000	--	--	--	--	--	REMOVED	--	-4.800	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
26	0.000	--	--	--	--	--	REMOVED	--	-5.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
27	0.000	--	--	--	--	--	REMOVED	--	-5.200	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
28	0.000	--	--	--	--	--	REMOVED	--	-5.400	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
29	0.000	--	--	--	--	--	REMOVED	--	-5.600	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
30	0.000	--	--	--	--	--	REMOVED	--	-5.800	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
31	0.000	--	--	--	--	--	REMOVED	--	-6.000	0.000	
1.000	1.000	0.000	0.000	0.000	not available						
32 D	0.6184	-1.7143E-03	1.333	0.4253	62.00	52.11	ACTIVE	0.000	-6.200	2.667	
1.000	1.000	3.092	0.000	0.000	Ug5_2_8_L_0						
33 D	1.237	-1.6234E-03	2.667	0.8507	64.00	52.40	ACTIVE	0.000	-6.400	5.333	

1.000	1.000	6.184	0.000	0.000	0.000	Ug5_2_8_L_0					
34 D	1.855	-1.5119E-03	4.000	1.276	66.00	52.80	ACTIVE	0.000	-6.600	8.000	
1.000	1.000	9.276	0.000	0.000	Ug5_2_8_L_0						
35 D	2.474	-1.3850E-03	5.333	1.701	68.00	53.54	ACTIVE	0.000	-6.800	10.67	
1.000	1.000	12.37	0.000	0.000	Ug5_2_8_L_0						
36 D	3.092	-1.2473E-03	6.667	2.127	70.00	54.41	ACTIVE	0.000	-7.000	13.33	
1.000	1.000	15.46	0.000	0.000	Ug5_2_8_L_0						
37 D	3.710	-1.1026E-03	8.000	2.552	72.00	55.28	ACTIVE	0.000	-7.200	16.00	
1.000	1.000	18.55	0.000	0.000	Ug5_2_8_L_0						
38 D	5.849	-9.5441E-04	9.333	10.58	74.00	56.13	UL-RL	2.3300E+04	-7.400	18.67	
1.000	1.000	29.25	0.000	0.000	Ug5_2_8_L_0						
39 D	8.308	-8.0544E-04	10.67	20.21	76.00	56.98	UL-RL	2.3300E+04	-7.600	21.33	
1.000	1.000	41.54	0.000	0.000	Ug5_2_8_L_0						
40 D	9.956	-6.5798E-04	12.00	25.78	78.00	57.84	UL-RL	2.3300E+04	-7.800	24.00	
1.000	1.000	49.78	0.000	0.000	Ug5_2_8_L_0						
41 D	11.34	-5.1381E-04	13.33	30.06	80.00	58.70	UL-RL	2.3300E+04	-8.000	26.67	
1.000	1.000	56.72	0.000	0.000	Ug5_2_8_L_0						
42 D	12.71	-3.7436E-04	14.67	34.21	82.00	59.56	UL-RL	2.3300E+04	-8.200	29.33	
1.000	1.000	63.54	0.000	0.000	Ug5_2_8_L_0						
43 D	14.04	-2.4062E-04	16.00	38.22	84.00	60.42	UL-RL	2.3300E+04	-8.400	32.00	
1.000	1.000	70.22	0.000	0.000	Ug5_2_8_L_0						
44 D	15.35	-1.1331E-04	17.33	42.08	86.00	61.28	UL-RL	2.3300E+04	-8.600	34.67	
1.000	1.000	76.75	0.000	0.000	Ug5_2_8_L_0						
45 D	16.62	7.2089E-06	18.67	45.78	88.00	62.13	UL-RL	2.3300E+04	-8.800	37.33	
1.000	1.000	83.11	0.000	0.000	Ug5_2_8_L_0						
46 D	17.86	1.2080E-04	20.00	49.29	90.00	62.98	UL-RL	2.3300E+04	-9.000	40.00	
1.000	1.000	89.29	0.000	0.000	Ug5_2_8_L_0						
47 D	19.06	2.2758E-04	21.33	52.63	92.00	63.83	UL-RL	2.3300E+04	-9.200	42.67	
1.000	1.000	95.30	0.000	0.000	Ug5_2_8_L_0						
48 D	20.23	3.2785E-04	22.67	55.79	94.00	64.67	UL-RL	2.3300E+04	-9.400	45.33	
1.000	1.000	101.1	0.000	0.000	Ug5_2_8_L_0						
49 D	21.36	4.2206E-04	24.00	58.80	96.00	65.51	UL-RL	2.3300E+04	-9.600	48.00	
1.000	1.000	106.8	0.000	0.000	Ug5_2_8_L_0						
50 D	22.46	5.1077E-04	25.33	61.65	98.00	66.36	UL-RL	2.3300E+04	-9.800	50.67	
1.000	1.000	112.3	0.000	0.000	Ug5_2_8_L_0						
51 D	23.54	5.9461E-04	26.67	64.37	100.00	67.20	UL-RL	2.3300E+04	-10.000	53.33	
1.000	1.000	117.7	0.000	0.000	Ug5_2_8_L_0						
52 D	24.59	6.7424E-04	28.00	66.97	102.0	68.03	UL-RL	2.3300E+04	-10.200	56.00	
1.000	1.000	123.0	0.000	0.000	Ug5_2_8_L_0						
53 D	25.55	7.5031E-04	29.33	69.07	104.0	69.07	UL-RL	2.3300E+04	-10.400	58.67	
1.000	1.000	127.7	0.000	0.000	Ug5_2_8_L_0						
54 D	26.35	8.2346E-04	30.67	70.44	106.0	70.44	UL-RL	2.3300E+04	-10.600	61.33	
1.000	1.000	131.8	0.000	0.000	Ug5_2_8_L_0						
55 D	27.16	8.9430E-04	32.00	71.78	108.0	71.78	UL-RL	2.3300E+04	-10.800	64.00	
1.000	1.000	135.8	0.000	0.000	Ug5_2_8_L_0						
56 D	27.95	9.6336E-04	33.33	73.10	110.0	73.10	UL-RL	2.3300E+04	-11.000	66.67	
1.000	1.000	139.8	0.000	0.000	Ug5_2_8_L_0						
57 D	28.75	1.0312E-03	34.67	74.42	112.0	74.42	V-C	7767.	-11.200	69.33	
1.000	1.000	143.7	0.000	0.000	Ug5_2_8_L_0						
58 D	29.54	1.0981E-03	36.00	75.72	114.0	75.72	V-C	7767.	-11.400	72.00	
1.000	1.000	147.7	0.000	0.000	Ug5_2_8_L_0						
59 D	30.34	1.1645E-03	37.33	77.02	116.0	77.02	V-C	7767.	-11.600	74.67	
1.000	1.000	151.7	0.000	0.000	Ug5_2_8_L_0						
60 D	31.13	1.2307E-03	38.67	78.31	118.0	78.31	V-C	7767.	-11.800	77.33	
1.000	1.000	155.6	0.000	0.000	Ug5_2_8_L_0						
61 D	15.96	1.2969E-03	40.00	79.60	120.0	79.60	V-C	7767.	-12.000	80.00	
1.000	1.000	159.6	0.000	0.000	Ug5_2_8_L_0						

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
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New Project

STRESS RESULTS FOR GROUP NO. 3

WallElement\_33 :  
ELEMENT TYPE 2 NO.OF ELEMENTS. IN THIS GROUP 60  
CURRENT TIME IS 7.0000

WALL2D ELEMENT

EL	TA	TB	MA	MB
1	1.17502E-10	-1.17502E-10	1.22333E-11	-5.09646E-11
2	0.45203	-0.45203	6.84290E-11	9.04057E-02
3	1.3822	-1.3822	-9.04057E-02	0.36684
4	2.8031	-2.8031	-0.36684	0.92745
5	4.7398	-4.7398	-0.92745	1.8754
6	7.1920	-7.1920	-1.8754	3.3138
7	10.124	-10.124	-3.3138	5.3387
8	13.529	-13.529	-5.3387	8.0445
9	17.414	-17.414	-8.0445	11.527
10	21.763	-21.763	-11.527	15.880
11	26.583	-26.583	-15.880	21.196
12	32.547	-32.547	-21.196	27.706
13	40.237	-40.237	-27.706	35.753
14	49.611	-49.611	-35.753	45.675
15	59.972	-59.972	-45.675	57.670
16	71.312	-71.312	-57.670	71.932
17	83.624	-83.624	-71.932	88.657
18	96.884	-96.884	-88.657	108.03
19	111.07	-111.07	-108.03	130.25
20	126.17	-126.17	-130.25	155.48
21	142.18	-142.18	-155.48	183.92
22	159.08	-159.08	-183.92	215.73
23	176.83	-176.83	-215.73	251.10
24	195.41	-195.41	-251.10	290.18
25	-107.25	107.25	-290.18	268.73
26	-87.234	87.234	-268.73	251.28
27	-66.608	66.608	-251.28	237.96
28	-45.445	45.445	-237.96	228.87
29	-23.813	23.813	-228.87	224.11
30	-1.7803	1.7803	-224.11	223.76
31	-220.42	220.42	-223.76	179.67
32	-198.41	198.41	-179.67	139.99
33	-176.81	176.81	-139.99	104.63
34	-155.66	155.66	-104.63	73.497
35	-134.94	134.94	-73.497	46.509
36	-114.64	114.64	-46.509	23.581
37	-94.803	94.803	-23.581	4.6201
38	-76.967	76.967	-4.6201	-10.773
39	-61.467	61.467	10.773	-23.067
40	-47.497	47.497	23.067	-32.566
41	-34.796	34.796	32.566	-39.526
42	-23.332	23.332	39.526	-44.192
43	-13.070	13.070	44.192	-46.806
44	-3.9646	3.9646	46.806	-47.599
45	4.0329	-4.0329	47.599	-46.792
46	10.605	-10.605	46.792	-44.671
47	15.679	-15.679	44.671	-41.536
48	19.339	-19.339	41.536	-37.668
49	21.664	-21.664	37.668	-33.335
50	22.730	-22.730	33.335	-28.789
51	22.601	-22.601	28.789	-24.269
52	21.799	-21.799	24.269	-19.909
53	20.515	-20.515	19.909	-15.806
54	18.896	-18.896	15.806	-12.027
55	16.920	-16.920	12.027	-8.6430
56	14.616	-14.616	8.6430	-5.7197
57	11.962	-11.962	5.7197	-3.3273
58	8.9819	-8.9819	3.3273	-1.5309
59	5.6540	-5.6540	1.5309	-0.40012
60	2.0005	-2.0005	0.40012	9.69064E-13

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*          |
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|          NewProject.BaseDesignSection_28.A2M2R1_1787          |
|          Exe Time :24 May 2018          18:23:41          |
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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	6
3	CONVERGENCE :YES	6
4	CONVERGENCE :YES	4
5	CONVERGENCE :YES	3
6	CONVERGENCE :YES	6
7	CONVERGENCE :YES	6

END OF PROCESS FOR PROBLEM

New Project

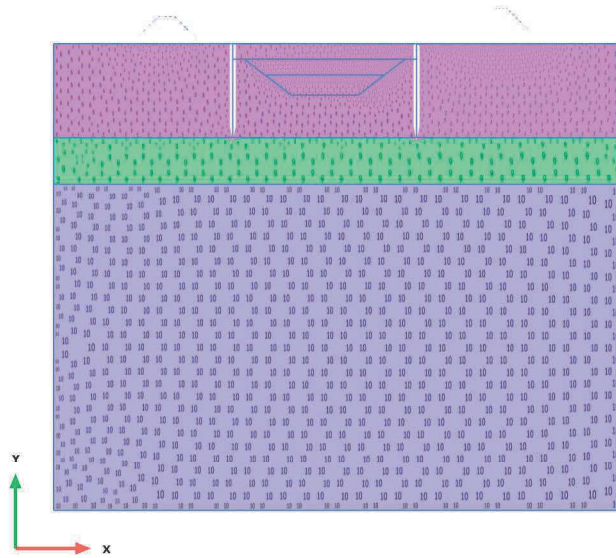
NONLINEAR SOLUTION CPU TIME .... 0.07 [sec]

DATABASE CREATION CPU TIME..... 0.21 [sec]

6. Verifiche agli Stati Limite Ultimi Idraulici

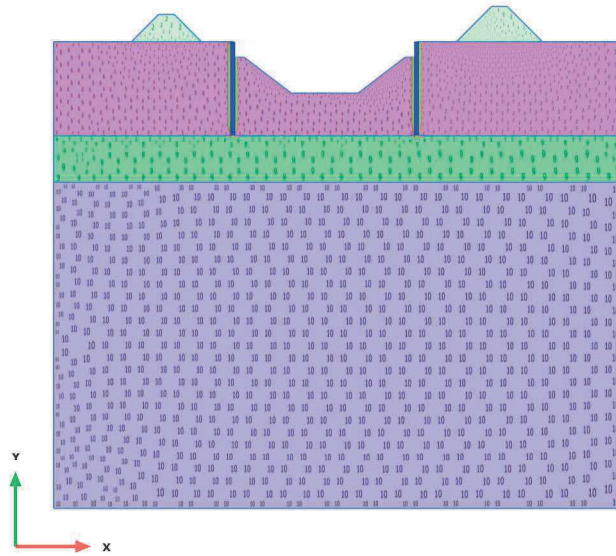
# PLAXIS Report

### 1.1.1.1 Calculation results, Initial phase [InitialPhase] (0/1), Connectivity plot



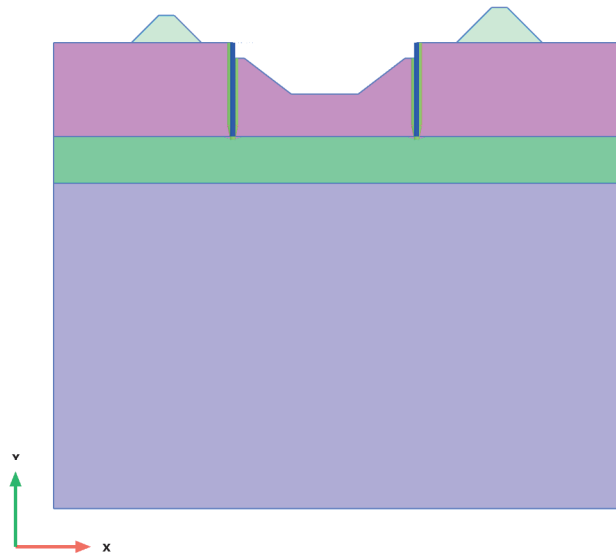
**Connectivity plot**

## 1.1.1.2 Calculation results, Phase\_4 [Phase\_4] (21/9), Connectivity plot



**Connectivity plot**

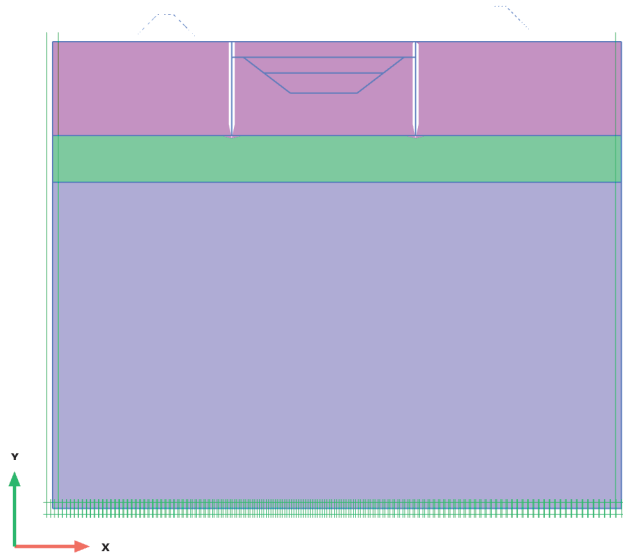
## 1.1.2 Input nodes plot



**Input nodes plot**

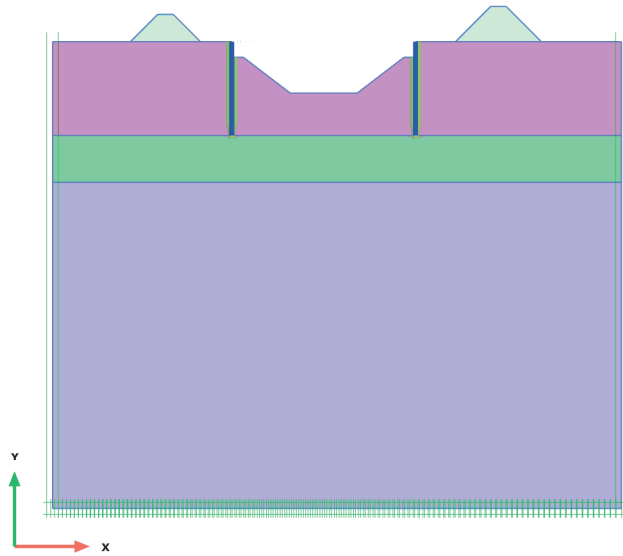


### 1.1.3.1 Calculation results, Initial phase [InitialPhase] (0/1), Fixities plot



**Fixities plot**

### 1.1.3.2 Calculation results, Phase\_4 [Phase\_4] (21/9), Fixities plot

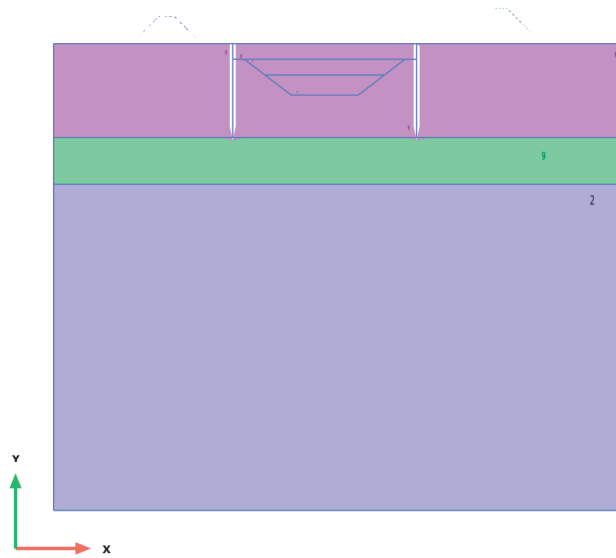


**Fixities plot**

## 1.1.4 Area information

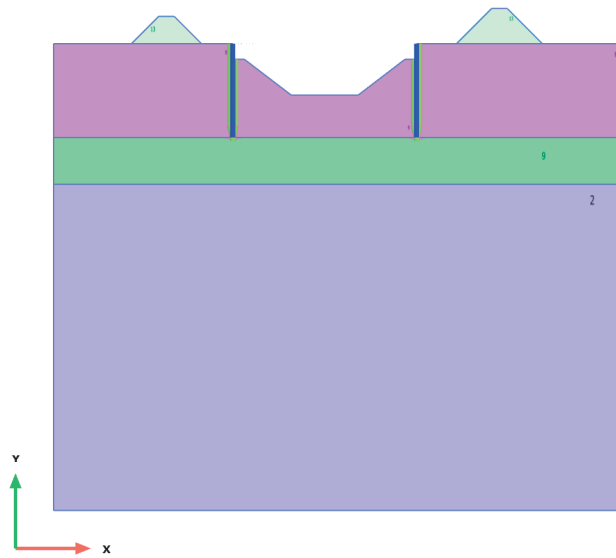
<b>Area information</b>		
Bounds		
Min <sub>x</sub>	0.000	m
Min <sub>y</sub>	-60.00	m
Max <sub>x</sub>	73.00	m
Max <sub>y</sub>	4.500	m
Total area		
Total	4315	m <sup>2</sup>
Area per cluster		
Cluster 1	29.25	m <sup>2</sup>
Cluster 2	19.25	m <sup>2</sup>
Cluster 3	0.000	m <sup>2</sup>
Cluster 4	0.000	m <sup>2</sup>
Cluster 5	0.000	m <sup>2</sup>
Cluster 6	276.0	m <sup>2</sup>
Cluster 7	316.9	m <sup>2</sup>
Cluster 8	169.2	m <sup>2</sup>
Cluster 9	438.0	m <sup>2</sup>
Cluster 10	3066	m <sup>2</sup>

### 1.1.5.1 Calculation results, Initial phase [InitialPhase] (0/1), Materials plot








**Materials plot**

### 1.1.5.2 Calculation results, Phase\_4 [Phase\_4] (21/9), Materials plot



**Materials plot**

# 1.1.6.1.1.1 Materials – Soil and interfaces – Mohr-Coulomb (1/2)


Identification		Ug1	Rilevato_ASPL_50	Rilevato_ASPL_20	Bonifica	Veg
Identification number		1	3	5	7	10
Drainage type		Undrained (A)	Undrained (A)	Undrained (A)	Drained	Drained
Colour						
Comments						
$\gamma_{sat}$	kN/m <sup>3</sup>	19.50	18.00	18.00	18.00	18.00
$\gamma_{sat}$	kN/m <sup>3</sup>	20.00	18.50	18.50	18.50	18.50
Dilatancy cut-off		No	No	No	No	No
$e_{sat}$		0.5000	0.5000	0.5000	0.5000	0.5000
$e_{min}$		0.000	0.000	0.000	0.000	0.000
$e_{max}$		999.0	999.0	999.0	999.0	999.0
Rayleigh $\alpha$		0.000	0.000	0.000	0.000	0.000
Rayleigh $\beta$		0.000	0.000	0.000	0.000	0.000
E	kN/m <sup>2</sup>	20.00E3	50.00E3	20.00E3	20.00E3	20.00E3
$\nu$ (nu)		0.3000	0.3000	0.3000	0.3000	0.3000
G	kN/m <sup>2</sup>	7692	19.23E3	7692	7692	7692
$E_{end}$	kN/m <sup>2</sup>	26.92E3	67.31E3	26.92E3	26.92E3	26.92E3
$c_{ref}$	kN/m <sup>2</sup>	5.000	0.000	0.000	0.000	0.000
$\phi$ (phi)	°	26.00	38.00	38.00	34.00	34.00
$\psi$ (psi)	°	0.000	0.000	0.000	0.000	0.000
$V_L$	m/s	62.21	102.4	64.75	64.75	64.75
$V_o$	m/s	116.4	191.5	121.1	121.1	121.1
Set to default values		Yes	Yes	Yes	Yes	Yes
$E_{inc}$	kN/m <sup>2</sup> /m	0.000	0.000	0.000	0.000	0.000
$\gamma_{ref}$	m	0.000	0.000	0.000	0.000	0.000
$c_{inc}$	kN/m <sup>2</sup> /m	0.000	0.000	0.000	0.000	0.000
$\gamma_{ref}$	m	0.000	0.000	0.000	0.000	0.000
Tension cut-off		Yes	Yes	Yes	Yes	Yes
Tensile strength	kN/m <sup>2</sup>	0.000	0.000	0.000	0.000	0.000





Identification		Ug1	Rilevato_ASPI_50	Rilevato_ASPI_20	Bonifica	Veg
2 $\mu\text{m}$ - 50 $\mu\text{m}$	%	13.00	26.00	26.00	13.00	26.00
50 $\mu\text{m}$ - 2 mm	%	77.00	28.00	28.00	77.00	28.00
Set to default values		No	Yes	Yes	Yes	Yes
$k_x$	m/day	6.000	0.2480	0.2480	0.6000	0.2480
$k_y$	m/day	0.6000	0.2480	0.2480	0.6000	0.2480
$-\Psi_{\text{unsat}}$	m	10.00E3	10.00E3	10.00E3	10.00E3	10.00E3
$e_{\text{sat}}$		0.5000	0.5000	0.5000	0.5000	0.5000
$S_s$	1/m	0.000	0.000	0.000	0.000	0.000
$c_s$		1.000E15	1.000E15	1.000E15	1.000E15	1.000E15
$c_t$	kJ/t/K	0.000	0.000	0.000	0.000	0.000
$\lambda_s$	kW/m/K	0.000	0.000	0.000	0.000	0.000
$\rho_s$	t/m <sup>3</sup>	0.000	0.000	0.000	0.000	0.000
Solid thermal expansion		Linear	Linear	Linear	Linear	Linear
$\alpha_x$	1/K	0.000	0.000	0.000	0.000	0.000
$\alpha_y$	1/K	0.000	0.000	0.000	0.000	0.000
$\alpha_z$	1/K	0.000	0.000	0.000	0.000	0.000
$D_v$	m <sup>2</sup> /day	0.000	0.000	0.000	0.000	0.000
$f_{rv}$		0.000	0.000	0.000	0.000	0.000
Unfrozen water content		No	No	No	No	No

## 1.1.6.1.1.2 Materials – Soil and interfaces – Mohr-Coulomb (2/2)

Identification		Tutorial 05 – Clay
Identification number		12
Drainage type		Undrained (B)
Colour		
Comments		
$\gamma_{unsat}$	kN/m <sup>3</sup>	15.00
$\gamma_{sat}$	kN/m <sup>3</sup>	18.00
Dilatancy cut-off		No
$e_{init}$		0.5000
$e_{min}$		0.000
$e_{max}$		999.0
Rayleigh $\alpha$		0.000
Rayleigh $\beta$		0.000
E	kN/m <sup>2</sup>	3400
$\nu$ (nu)		0.3300
G	kN/m <sup>2</sup>	1278
$E_{oed}$	kN/m <sup>2</sup>	5038
$C_{ref}$	kN/m <sup>2</sup>	5.000
$\phi$ (phi)	°	0.000
$\psi$ (psi)	°	0.000
$V_s$	m/s	28.91
$V_p$	m/s	57.40
Set to default values		No
$E_{inc}$	kN/m <sup>2</sup> /m	400.0
$y_{ref}$	m	3.000
$C_{inc}$	kN/m <sup>2</sup> /m	2.000
$y_{ref}$	m	3.000
Tension cut-off		Yes
Tensile strength	kN/m <sup>2</sup>	0.000








Identification		Tutorial 05 – Clay
Skempton-B		0.9738
$v_u$		0.4950
$K_{w,ref} / n$	kN/m <sup>2</sup>	124.1E3
$C_{v,ref}$	m <sup>2</sup> /day	0.05038
Strength		Rigid
$R_{inter}$		1.000
Consider gap closure		Yes
$\delta_{inter}$		0.000
R	m <sup>2</sup> K/kW	0.000
$K_0$ determination		Manual
$K_{0,x} = K_{0,z}$		Yes
$K_{0,x}$		0.6000
$K_{0,z}$		0.6000
Data set		Standard
Type		Coarse
< 2 $\mu$ m	%	10.00
2 $\mu$ m – 50 $\mu$ m	%	13.00
50 $\mu$ m – 2 mm	%	77.00
Set to default values		No
$k_x$	m/day	0.1000E-3
$k_y$	m/day	0.1000E-3
$-\psi_{unsat}$	m	10.00E3
$e_{init}$		0.5000
$S_s$	1/m	0.000
$c_k$		1.000E15
$c_s$	kJ/t/K	0.000
$\lambda_s$	kW/m/K	0.000
$\rho_s$	t/m <sup>3</sup>	0.000



Identification		Tutorial 05 – Clay
$D_v$	$m^2/day$	0.000
$f_{TV}$		0.000
Unfrozen water content		No

## 1.1.6.1.2.1 Materials – Soil and interfaces – Hardening soil (1/2)




Identification		Ug7	Rilevato_ANAS_20	Rilevato_ANAS_50	Ug5	Ug6
Identification number		2	4	6	8	9
Drainage type		Undrained (A)	Drained	Undrained (A)	Drained	Undrained (A)
Colour						
Comments						
$\gamma_{unsat}$	kN/m <sup>3</sup>	18.50	18.00	18.00	19.00	18.50
$\gamma_{sat}$	kN/m <sup>3</sup>	19.00	18.50	18.50	20.00	19.00
Dilatancy cut-off		No	No	No	No	No
$e_{min}$		0.5000	0.5000	0.5000	0.5000	0.5000
$e_{min}$		0.000	0.000	0.000	0.000	0.000
$e_{max}$		999.0	999.0	999.0	999.0	999.0
Rayleigh $\alpha$		0.000	0.000	0.000	0.000	0.000
Rayleigh $\beta$		0.000	0.000	0.000	0.000	0.000
$E_{sd}^{ref}$	kN/m <sup>2</sup>	35.00E3	25.00E3	40.00E3	45.00E3	30.00E3
$E_{ed}^{ref}$	kN/m <sup>2</sup>	20.00E3	25.00E3	40.00E3	25.00E3	20.00E3
$E_{ur}^{ref}$	kN/m <sup>2</sup>	105.0E3	75.00E3	120.0E3	105.0E3	90.00E3
power (m)		0.5000	0.5000	0.5000	0.5000	0.5000
Use alternatives		No	No	No	No	No
$C_c$		0.01725	0.01380	8.625E-3	0.01380	0.01725
$C_s$		2.957E-3	4.140E-3	2.587E-3	2.957E-3	3.450E-3
$e_{min}$		0.5000	0.5000	0.5000	0.5000	0.5000
$c_{ref}$	kN/m <sup>2</sup>	5.000	0.000	0.000	0.000	5.000
$\phi$ (phi)	°	33.00	38.00	38.00	37.00	26.00
$\psi$ (psi)	°	0.000	0.000	0.000	0.000	0.000
Set to default values		Yes	Yes	Yes	Yes	Yes
$v_{ur}$		0.2000	0.2000	0.2000	0.2000	0.2000
$p_{ref}$	kN/m <sup>2</sup>	100.0	100.0	100.0	100.0	100.0
$K_{d}^{ref}$		0.4554	0.3843	0.3843	0.3982	0.5616
$c_{inc}$	kN/m <sup>2</sup> /m	0.000	0.000	0.000	0.000	0.000



Identification		Ug7	Rilevato_ANAS_20	Rilevato_ANAS_50	Ug5	Ug6
OCR		1.000	1.000	1.000	1.000	1.000
POP	kN/m <sup>2</sup>	0.000	0.000	0.000	0.000	0.000
Data set		Standard	Standard	Standard	Standard	Standard
Type		Medium	Coarse	Coarse	Coarse	Medium
< 2 μm	%	19.00	10.00	10.00	10.00	19.00
2 μm – 50 μm	%	41.00	13.00	13.00	13.00	41.00
50 μm – 2 mm	%	40.00	77.00	77.00	77.00	40.00
Set to default values		No	Yes	Yes	No	No
k <sub>s</sub>	m/day	0.2412	0.6000	0.6000	1.200	0.2412
k <sub>y</sub>	m/day	0.2412	0.6000	0.6000	1.200	0.2412
-Ψ <sub>unsat</sub>	m	10.00E3	10.00E3	10.00E3	10.00E3	10.00E3
e <sub>sat</sub>		0.5000	0.5000	0.5000	0.5000	0.5000
S <sub>l</sub>	1/m	0.000	0.000	0.000	0.000	0.000
c <sub>s</sub>		1.000E15	1.000E15	1.000E15	1.000E15	1.000E15
c <sub>t</sub>	kJ/t/K	0.000	0.000	0.000	0.000	0.000
λ <sub>s</sub>	kW/m/K	0.000	0.000	0.000	0.000	0.000
ρ <sub>s</sub>	t/m <sup>3</sup>	0.000	0.000	0.000	0.000	0.000
Solid thermal expansion		Linear	Linear	Linear	Linear	Linear
α <sub>x</sub>	1/K	0.000	0.000	0.000	0.000	0.000
α <sub>y</sub>	1/K	0.000	0.000	0.000	0.000	0.000
α <sub>z</sub>	1/K	0.000	0.000	0.000	0.000	0.000
D <sub>v</sub>	m <sup>2</sup> /day	0.000	0.000	0.000	0.000	0.000
f <sub>rv</sub>		0.000	0.000	0.000	0.000	0.000
Unfrozen water content		No	No	No	No	No

## 1.1.6.1.2.2 Materials – Soil and interfaces – Hardening soil (2/2)

Identification		Tutorial 04 – Embankment
Identification number		11
Drainage type		Drained
Colour		
Comments		
$\gamma_{unsat}$	kN/m <sup>3</sup>	16.00
$\gamma_{sat}$	kN/m <sup>3</sup>	19.00
Dilatancy cut-off		No
$e_{init}$		0.5000
$e_{min}$		0.000
$e_{max}$		999.0
Rayleigh $\alpha$		0.000
Rayleigh $\beta$		0.000
$E_{50}^{ref}$	kN/m <sup>2</sup>	25.00E3
$E_{oed}^{ref}$	kN/m <sup>2</sup>	25.00E3
$E_{ur}^{ref}$	kN/m <sup>2</sup>	75.00E3
power (m)		0.5000
Use alternatives		No
$C_c$		0.01380
$C_s$		4.140E-3
$e_{init}$		0.5000
$C_{ref}$	kN/m <sup>2</sup>	1.000
$\phi$ (phi)	°	30.00
$\psi$ (psi)	°	0.000
Set to default values		Yes
$v_{ur}$		0.2000
$p_{ref}$	kN/m <sup>2</sup>	100.0
$K_{0}^{nc}$		0.5000
$C_{inc}$	kN/m <sup>2</sup> /m	0.000




Identification		Tutorial 04 – Embankment
$R_f$		0.9000
Tension cut-off		Yes
Tensile strength	kN/m <sup>2</sup>	0.000
Undrained behaviour		Standard
Skempton-B		0.9866
$v_u$		0.4950
$K_{w,ref} / n$	kN/m <sup>2</sup>	3.073E6
Strength		Rigid
$R_{inter}$		1.000
Consider gap closure		Yes
$\delta_{inter}$		0.000
R	m <sup>2</sup> K/kW	0.000
$K_0$ determination		Automatic
$K_{0,x} = K_{0,z}$		Yes
$K_{0,x}$		0.5000
$K_{0,z}$		0.5000
OCR		1.000
POP	kN/m <sup>2</sup>	0.000
Data set		USDA
Model		Van Genuchten
Type		Loamy sand
< 2 $\mu\text{m}$	%	6.000
2 $\mu\text{m}$ – 50 $\mu\text{m}$	%	11.00
50 $\mu\text{m}$ – 2 mm	%	83.00
Set to default values		Yes
$k_x$	m/day	3.499
$k_y$	m/day	3.499
$-\Psi_{unsat}$	m	10.00E3





Identification		Tutorial 04 – Embankment
$\lambda_s$	kW/m/K	0.000
$\rho_s$	t/m <sup>3</sup>	0.000
Solid thermal expansion		Linear
$\alpha_x$	1 /K	0.000
$\alpha_y$	1 /K	0.000
$\alpha_z$	1 /K	0.000
$D_v$	m <sup>2</sup> /day	0.000
$f_{Tv}$		0.000
Unfrozen water content		No


### 1.1.6.1.3 Materials – Soil and interfaces – Linear elastic

Identification		Tutorial 15 – Concrete
Identification number		13
Drainage type		Non-porous
Colour		
Comments		
$\gamma_{unsat}$	kN/m <sup>3</sup>	24.00
$\gamma_{sat}$	kN/m <sup>3</sup>	24.00
Dilatancy cut-off		No
$e_{init}$		0.5000
$e_{min}$		0.000
$e_{max}$		999.0
Rayleigh $\alpha$		0.000
Rayleigh $\beta$		0.000
E	kN/m <sup>2</sup>	25.00E6
$\nu$ (nu)		0.1500
G	kN/m <sup>2</sup>	10.87E6
$E_{oed}$	kN/m <sup>2</sup>	26.40E6
$V_s$	m/s	2108
$V_p$	m/s	3285
Set to default values		Yes
$E_{inc}$	kN/m <sup>2</sup> /m	0.000
$y_{ref}$	m	0.000
Strength		Manual
$R_{inter}$		0.6700
Consider gap closure		Yes
$\delta_{inter}$		0.000
R	m <sup>2</sup> K/kW	0.000
$K_0$ determination		Automatic
$K_{0,x} = K_{0,z}$		Yes



Identification		Tutorial 15 – Concrete
$K_{0,z}$		1.000
$k_x$	m/day	0.000
$k_y$	m/day	0.000
$-\psi_{\text{unsat}}$	m	10.00E3
$e_{\text{init}}$		0.5000
$C_k$		1.000E15
$c_s$	kJ/t/K	0.9000E-24
$\lambda_s$	kW/m/K	1.000E-3
$\rho_s$	t/m <sup>3</sup>	2.500E27
Solid thermal expansion		Linear
$\alpha_x$	1/K	0.01000E-3
$\alpha_y$	1/K	0.01000E-3
$\alpha_z$	1/K	0.01000E-3
$D_v$	m <sup>2</sup> /day	0.000
$f_{TV}$		0.000
Unfrozen water content		No

## 1.1.6.2 Materials – Plates –

<b>Identification</b>		<b>AZ 50-430</b>
Identification number		1
Comments		Yield strength of steel is 430 [N/mm2]
Colour		
Material type		Elastic
Isotropic		No
End bearing		No
EA <sub>1</sub>	kN/m	6.762E6
EA <sub>2</sub>	kN/m	338.1E3
EI	kN m <sup>2</sup> /m	254.2E3
d	m	0.6717
w	kN/m/m	2.531
v (nu)		0.000
Rayleigh α		0.000
Rayleigh β		0.000
Identification number		1
c	kJ/t/K	0.000
λ	kW/m/K	0.000
ρ	t/m <sup>3</sup>	0.000
α	1/K	0.000

## 1.1.7 General information

<b>General information</b>	
Project	
Filename	Palancole_3_flow_only.P2DX
Directory	C:\Users\A23109q\Documents\Progetti\TO235\ASPI\PLX\
Title	
General	
Model	Plane strain
Elements	15-Noded
Acceleration	
Gravity angle	-90.00°
x-acceleration	0.000 G
y-acceleration	0.000 G
Earth gravity	9.810 m/s <sup>2</sup>
Mesh	
Nr of soil elements	3943
Nr of nodes	32097
Average elem. size	1.093 m
Comments	

## 1.1.8.1 Calculation information

Calculation information				
Step info				
Phase	Initial phase [InitialPhase]			
Step	Initial			
Calculation mode	Classical mode			
Step type	N/A			
Solver type	Picos			
Kernel type	64 bit			
Extrapolation factor	1.000			
Relative stiffness	1.000			
Multipliers				
Soil weight			$\Sigma M_{\text{Weight}}$	1.000
Strength reduction factor	$M_{sf}$	0.00 0	$\Sigma M_{sf}$	1.000
Time	Increment	7.51 4	End time	0.000
Staged construction				
Active proportion total area	$M_{\text{Area}}$	0.00 0	$\Sigma M_{\text{Area}}$	0.989 0
Active proportion of stage	$M_{\text{Stage}}$	0.00 0	$\Sigma M_{\text{Stage}}$	0.000
Forces				
$F_x$	0.000 kN/m			
$F_y$	0.000 kN/m			
Consolidation				
Realised $P_{\text{Excess,Max}}$	599.1 kN/m <sup>2</sup>			



## 1.1.8.2 Calculation information

<b>Calculation information</b>				
Step info				
Phase	Phase_4 [Phase_4]			
Step	Initial			
Calculation mode	Classical mode			
Step type	N/A			
Updated mesh	False			
Solver type	Picos			
Kernel type	64 bit			
Extrapolation factor	1.000			
Relative stiffness	1.000			
Multipliers				
Soil weight			$\Sigma M_{\text{Weight}}$	1.000
Strength reduction factor	$M_{\text{sf}}$	0.00 0	$\Sigma M_{\text{sf}}$	1.000
Time	Increment	7.51 4	End time	0.000
Staged construction				
Active proportion total area	$M_{\text{Area}}$	0.00 0	$\Sigma M_{\text{Area}}$	0.974 3
Active proportion of stage	$M_{\text{Stage}}$	0.00 0	$\Sigma M_{\text{Stage}}$	0.000
Forces				
$F_x$	0.000 kN/m			
$F_y$	0.000 kN/m			
Consolidation				
Realised $P_{\text{Excess,Max}}$	598.6 kN/m <sup>2</sup>			

## 2.1.1.1 Calculation results, Initial phase [InitialPhase] (0/1), Quality

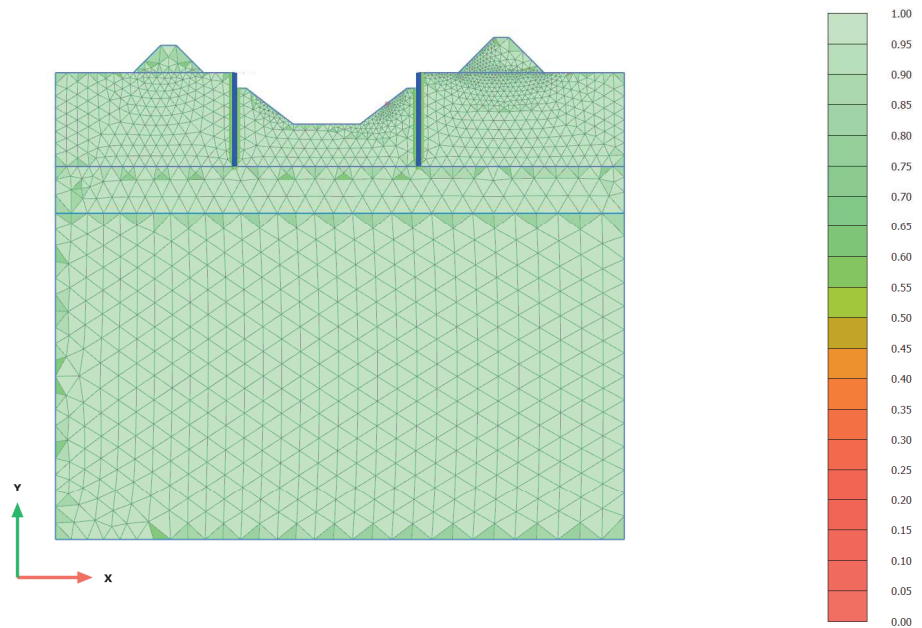


### Quality

Maximum value = 1.000 (Element 756)

Minimum value =  $0.2607 \cdot 10^{-3}$  (Element 2889)

## 2.1.1.2 Calculation results, Phase\_4 [Phase\_4] (21/9), Quality

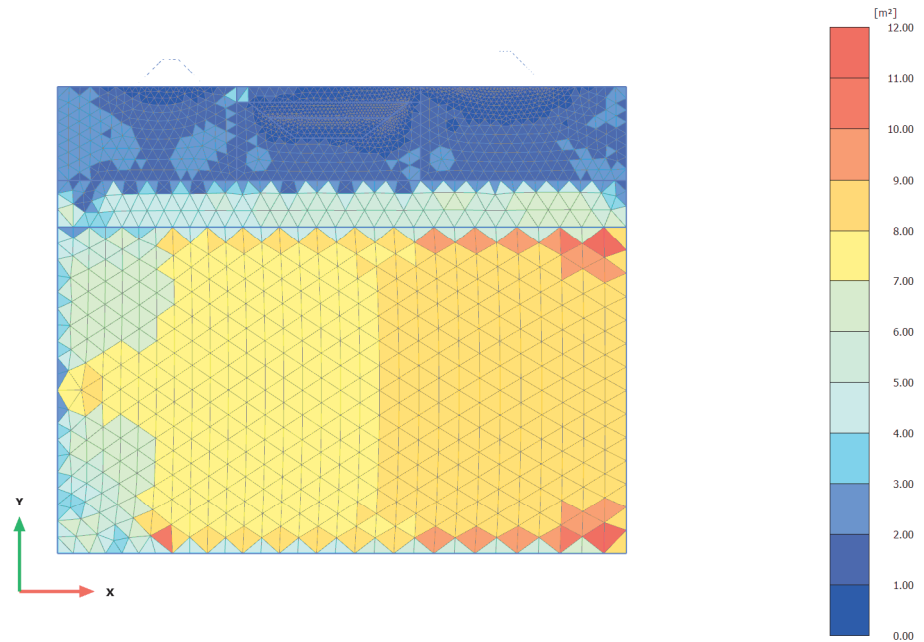


### Quality

Maximum value = 1.000 (Element 2546)

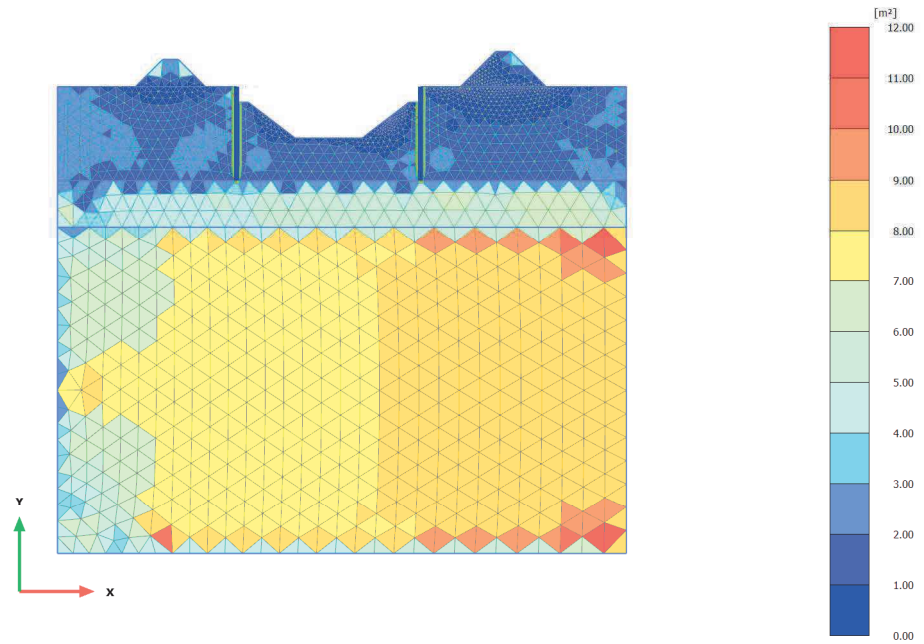
Minimum value =  $0.2607 \cdot 10^{-3}$  (Element 2889)

## 2.1.2.1 Calculation results, Initial phase [InitialPhase] (0/1), Area



**Area**  
Maximum value = 11.23 m<sup>2</sup> (Element 3139)  
Minimum value = 0.01349\*10<sup>-3</sup> m<sup>2</sup> (Element 2891)

## 2.1.2.2 Calculation results, Phase\_4 [Phase\_4] (21/9), Area

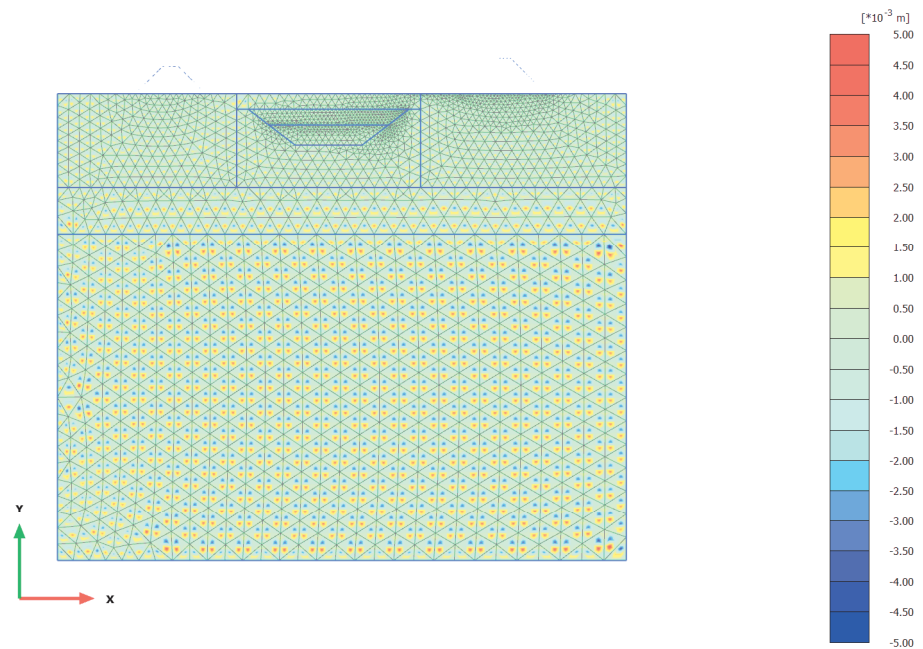


### Area

Maximum value = 11.23 m<sup>2</sup> (Element 3139)

Minimum value = 0.01349\*10<sup>-3</sup> m<sup>2</sup> (Element 2891)

## 2.2.1.1.1 Calculation results, Initial phase [InitialPhase] (0/1), Groundwater head

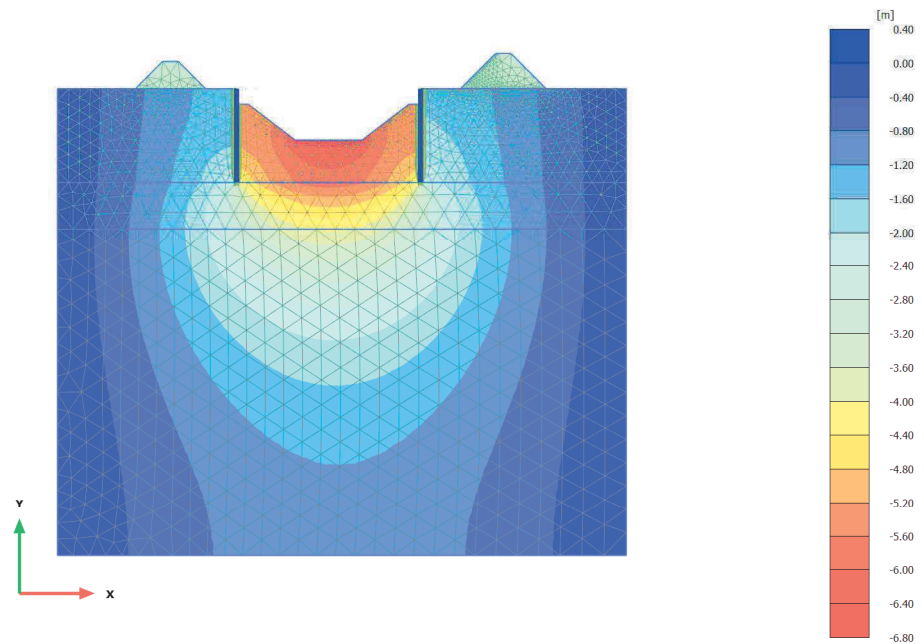


### Groundwater head

Maximum value =  $4.970 \cdot 10^{-3}$  m (Element 3140 at Node 13386)

Minimum value =  $-4.970 \cdot 10^{-3}$  m (Element 3139 at Node 22696)

## 2.2.1.1.2 Calculation results, Phase\_4 [Phase\_4] (21 /9), Groundwater head

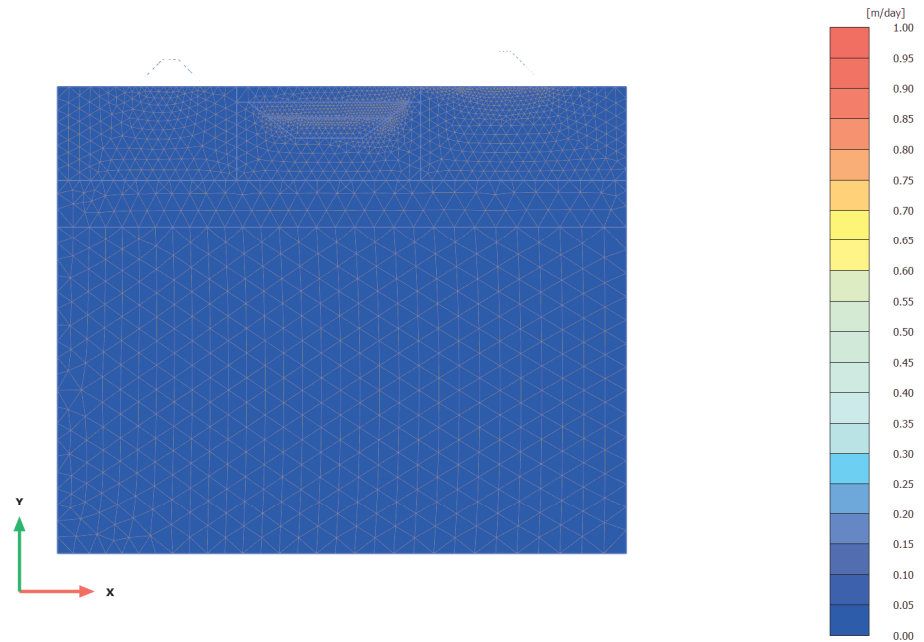


### Groundwater head

Maximum value =  $0.9981 \times 10^{-3}$  m (Element 3127 at Node 13390)

Minimum value = -6.572 m (Element 2637 at Node 14163)

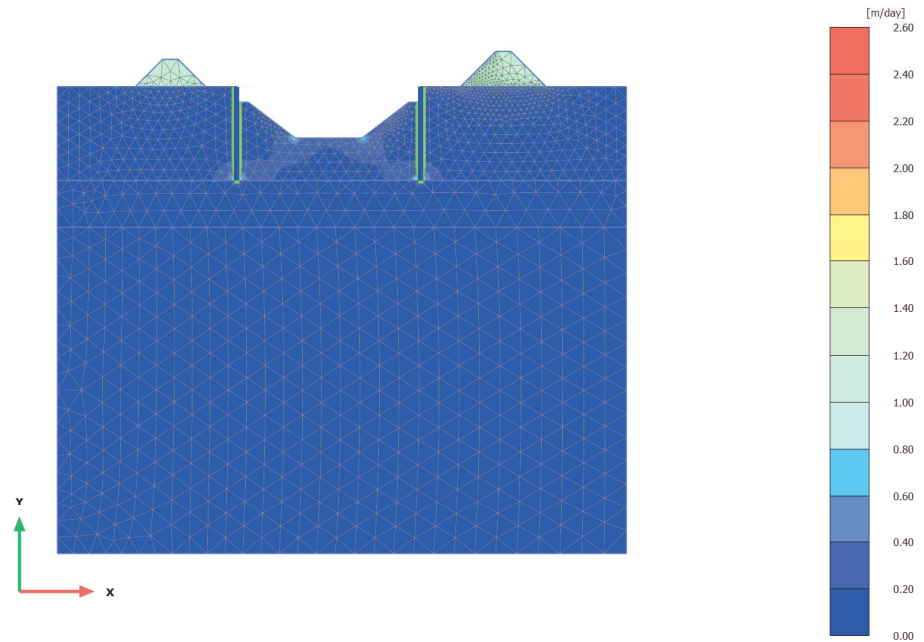
### 2.2.2.1.1 Calculation results, Initial phase [InitialPhase] (0/1), Groundwater flow |q|



**Groundwater flow |q|**  
Uniform value of  $0.1829 \cdot 10^{-9}$  m/day



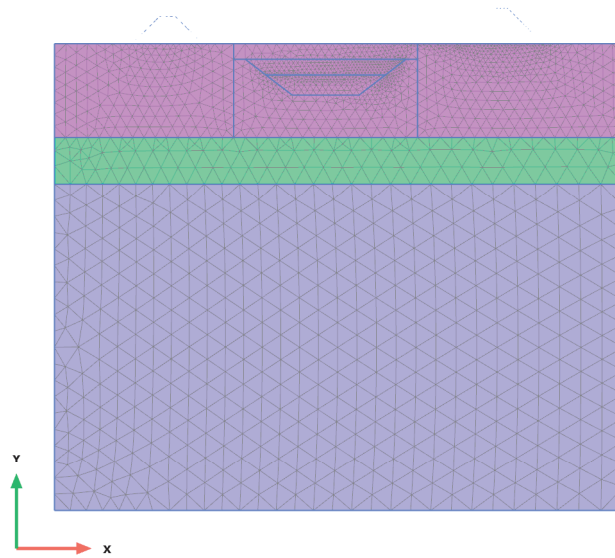
## 2.2.2.1.2 Calculation results, Phase\_4 [Phase\_4] (21 /9), Groundwater flow |q|



### Groundwater flow |q|

Maximum value = 2.548 m/day (Element 1661 at Node 22835)  
Minimum value =  $2.473 \cdot 10^{-9}$  m/day (Element 2491 at Node 22434)

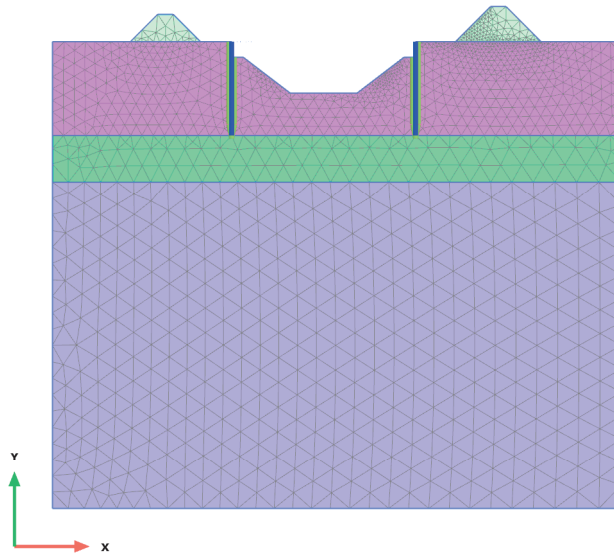
#### 4.1.1 Calculation results, Initial phase [InitialPhase] (0/1), Deformed mesh |u|



**Deformed mesh |u| (at true scale)**

Uniform value of 0.000 m

## 4.1.2 Calculation results, Phase\_4 [Phase\_4] (21 /9), Deformed mesh |u|



**Deformed mesh |u| (at true scale)**

Uniform value of 0.000 m