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PYWALL for Windows, Version 2022.7.5

Serial Number : 447597562

A Program for the Analysis of  
Flexible Retaining Walls  
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Path to file locations : J:\20230339\ODOT\07\_D11 Bridge  
St\_Bowerston\120494\400-Engineering\Structures\SFN\_3431790\EngData\17\_Temp  
Shoring\Stage 3 Design\PYWALL\  
Name of input data file : Temp Shoring\_FA Service.py7d  
Name of output file : Temp Shoring\_FA Service.py7o  
Name of plot output file : Temp Shoring\_FA Service.py7p

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Time and Date of Analysis  
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Date: December 19, 2025 Time: 11:04:20

New Wall

\*\*\*\*\*  
\* PROGRAM CONTROL PARAMETERS \*  
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NO OF POINTS FOR SPECIFIED DEFLECTIONS AND SLOPES = 0  
NO OF WALL SECTIONS = 1  
NO OF CROSS SECTIONS = 1  
GENERATE EARTH PRESSURE INTERNALLY = 1  
GENERATE SOIL RESISTANCE (P-Y) CURVES INTERNALLY = 1  
NO OF P-Y MODIFICATION FACTORS FOR GEN. P-Y CURVES = 0  
NO OF USER-SPECIFIED SOIL RESISTANCE (P-Y) CURVES = 0  
NO OF TIE BACKS = 0  
NO OF STRUTS/RAKERS = 0

HEIGHT OF WALL	=	36.000 FT
NUMBER OF INCREMENTS	=	100
INCREMENT LENGTH	=	4.320 IN
MAXIMUM ALLOWABLE DEFLECTION	=	100.000 IN
DEFLECTION CLOSURE TOLERANCE	=	1.000E-05 IN
MAXIMUM NUMBER OF ITERATIONS	=	100

\* WALL SECTIONS \*

SECT	TOP FT	BOTTOM FT	SECTION
1	0.00000	36.0000	1

\* CROSS SECTIONS \*

CROSS SECTION : 1  
 SECTION NAME : PZ  
 TYPE : ELASTIC  
 CROSS SECTION TYPE : SHEET PILING  
 SOURCE : USS  
 SECTION NAME : 1  
 WIDTH : 18.0000 IN  
 DEPTH : 12.0000 IN  
 WEB THICKNESS : 0.37500 IN  
 YOUNG MODULUS : 2.90000E+07 LBS/IN\*\*2

\* CROSS SECTIONS PROPERTIES \*

ELASTIC SECTIONS

SECT	DIAM, IN	I, IN**4
1	18.0000	276.300

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\* STIFFNESS AND LOAD DATA \*

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EI - FLEXURAL RIGIDITY, Q - TRANSVERSE LOAD,  
 S - STIFFNESS OF TRANSVERSE RESISTANCE,  
 T - TORQUE, P - AXIAL LOAD,  
 R - STIFFNESS OF TORSIONAL RESISTANCE.

FROM	TO	CONTD	EI	Q	S	T	R	P
			LBS-IN**2	LBS	LBS/IN	IN-LBS	IN-LBS	LBS
0	1		8.013E+09	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
100	0		8.013E+09	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

\*\*\*\*\*  
 \* WALL INFORMATION \*  
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FREE HEIGHT OF WALL = 1.200E+01 FT  
 WIDTH FOR EARTH PRESSURE, WA = 1.800E+01 IN  
 WIDTH FOR SOIL RESISTANCE, WP = 1.800E+01 IN  
 DEPTH TO THE WATER TABLE AT BACKFILL = 1.606E+01 FT  
 DEPTH TO THE WATER TABLE AT EXCAVATION = 1.606E+01 FT  
 UNIT WEIGHT OF WATER = 3.600E-02 LBS/IN\*\*3  
 SLOPE OF THE BACKFILL (deg.) = 0.000E+00  
 SLOPE OF THE EXCAVATION GROUND (deg.) = 0.000E+00  
 MODIFICATION FOR ACTIVE EARTH PRESSURE = 1.000E+00

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 \* SURCHARGE INFORMATION \*  
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UNIFORM SURFACE PRESSURE = 1.736E+00 LBS/IN\*\*2

\*\*\*\*\*  
 \* SOIL INFORMATION \*  
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LAYER NO.	TOTAL THICKNESS	COHESION/ STRENGTH	TOTAL UNIT			
	FT	PSI	PHI DEG	WEIGHT PCI	DRAINED T OR F	ZTOP FT
1	6.2	5.2	0.0	0.072	T	0.00
2	5.8	0.0	28.0	0.064	T	6.19
3	4.1	0.0	28.0	0.064	T	12.00
4	8.3	0.0	28.0	0.075	T	16.06
5	10.0	10.4	0.0	0.084	F	24.38
6	5.6	31.2	0.0	0.084	F	34.38

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\* EFFECTIVE OVERBURDEN STRESS \*

DEPTH FT	STRESS LBS/IN**2
0.000E+00	1.736E+00
6.190E+00	7.066E+00
1.200E+01	1.150E+01
1.606E+01	1.461E+01
2.438E+01	1.852E+01
3.438E+01	2.427E+01

\* ACTIVE AND PASSIVE EARTH PRESSURE COEFFICIENT \*

LAYER NO.	ACTIVE EARTH COEFFICIENT	PASSIVE EARTH(*) COEFFICIENT	OPTIONAL EARTH(**) COEFFICIENT
1	1.000E+00	1.000E+00	4.217E-01
2	3.610E-01	2.770E+00	4.217E-01
3	3.610E-01	2.770E+00	0.000E+00
4	3.610E-01	2.770E+00	0.000E+00
5	1.000E+00	1.000E+00	0.000E+00
6	1.000E+00	1.000E+00	0.000E+00

NOTES:

- (\*) PASSIVE EARTH COEFFICIENT IS PRINTED ONLY FOR REFERENCE,  
IT IS NOT USED FOR ANALYSIS
- (\*\*) OPTIONAL EARTH COEFFICIENT IS USED TO ESTIMATE ACTIVE PRESSURE  
IF IT IS DIFFERENT THAN ZERO

\* ACTIVE EARTH PRESSURE OF EACH LAYER \*

LAYER NO	PA1 LBS/IN	Z1 FT	PA2 LBS/IN	Z2 FT	PA3 LBS/IN	Z3 FT	PA4 LBS/IN
1	54.39	3.10	83.49	4.13	0.00	-0.00	0.00
2	207.77	9.10	65.25	10.06	0.00	-0.00	0.00

\* GENERATED TRIANGULAR-DISTRIBUTION EARTH PRESSURE

DEPTH FT	ACTIVE EARTH PRESSURE LBS/IN
0.00000E+00	1.31791E+01
5.01892E-01	1.64599E+01

1.00375E+00	1.97406E+01
1.50567E+00	2.30220E+01
2.00758E+00	2.63016E+01
2.50950E+00	2.95830E+01
3.01133E+00	3.28644E+01
3.51325E+00	3.61440E+01
4.01517E+00	3.94254E+01
4.51700E+00	4.27068E+01
5.01892E+00	4.59864E+01
5.52083E+00	4.92678E+01
6.02267E+00	5.25492E+01
6.52200E+00	5.55678E+01
7.02000E+00	5.84550E+01
7.51800E+00	6.13422E+01
8.01600E+00	6.42312E+01
8.51417E+00	6.71184E+01
9.01167E+00	7.00056E+01
9.51000E+00	7.28946E+01
1.00083E+01	7.57818E+01
1.05058E+01	7.86690E+01
1.10042E+01	8.15580E+01
1.15017E+01	8.44452E+01
1.20000E+01	8.73324E+01
1.24975E+01	7.47630E+01
1.29942E+01	7.47630E+01
1.34917E+01	7.47630E+01
1.39883E+01	7.47630E+01
1.44858E+01	7.47630E+01
1.49825E+01	7.47630E+01
1.54800E+01	7.47630E+01
1.59775E+01	7.47630E+01
1.64758E+01	7.47630E+01
1.69750E+01	7.47630E+01
1.74742E+01	7.47630E+01
1.79733E+01	7.47630E+01
1.84725E+01	7.47630E+01
1.89717E+01	7.47630E+01
1.94708E+01	7.47630E+01
1.99700E+01	7.47630E+01
2.04700E+01	7.47630E+01
2.09692E+01	7.47630E+01
2.14683E+01	7.47630E+01
2.19675E+01	7.47630E+01
2.24667E+01	7.47630E+01
2.29658E+01	7.47630E+01
2.34650E+01	7.47630E+01
2.39642E+01	7.47630E+01
2.44633E+01	5.31000E-09
2.49633E+01	5.41800E-09
2.54633E+01	5.52600E-09

2.59633E+01	5.63400E-09
2.64633E+01	5.74200E-09
2.69633E+01	5.85000E-09
2.74633E+01	5.95800E-09
2.79633E+01	6.06600E-09
2.84633E+01	6.17400E-09
2.89633E+01	6.28200E-09
2.94633E+01	6.39000E-09
2.99633E+01	6.49800E-09
3.04633E+01	6.60600E-09
3.09633E+01	6.71400E-09
3.14633E+01	6.82200E-09
3.19633E+01	6.93000E-09
3.24633E+01	7.03800E-09
3.29633E+01	7.14600E-09
3.34633E+01	7.25400E-09
3.39633E+01	7.36200E-09
3.44642E+01	7.47000E-09
3.49675E+01	7.57800E-09
3.54708E+01	7.68600E-09
3.59733E+01	7.79400E-09

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 \* SOIL LAYERS AND STRENGTH DATA \*  
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X AT THE SURFACE OF EXCAVATION SIDE = 12.00 FT

4 LAYER(S) OF SOIL

LAYER 1  
 THE SOIL IS A SAND

LAYER 2  
 THE SOIL IS A SAND

LAYER 3  
 THE SOIL IS A STIFF CLAY WITH FREE WATER

LAYER 4  
 THE SOIL IS A STIFF CLAY WITH FREE WATER

DISTRIBUTION OF EFFECTIVE UNIT WEIGHT WITH DEPTH  
 8 POINTS

X, FT	WEIGHT, LBS/IN**3
12.0000	6.3657E-02

16.0600	6.3657E-02
16.0600	3.9231E-02
24.3800	3.9231E-02
24.3800	4.7912E-02
34.3800	4.7912E-02
34.3800	4.7912E-02
40.0000	4.7912E-02

DISTRIBUTION OF STRENGTH PARAMETERS WITH DEPTH  
8 POINTS

X, FT	C, LBS/IN**2	PHI, DEGREE	E50	KPY, LBS/IN**3
12.00	0.0000E+00	28.000	0.0000E+00	2.5000E+01
16.06	0.0000E+00	28.000	0.0000E+00	2.5000E+01
16.06	0.0000E+00	28.000	0.0000E+00	2.5000E+01
24.38	0.0000E+00	28.000	0.0000E+00	2.5000E+01
24.38	1.0417E+01	0.000	1.0000E-02	3.5000E+02
34.38	1.0417E+01	0.000	1.0000E-02	3.5000E+02
34.38	3.1250E+01	0.000	4.0000E-03	1.5000E+03
36.72	3.1250E+01	0.000	4.0000E-03	1.5000E+03

P-Y CURVES DATA

AT THE EXCAVATION SIDE

DEPTH BELOW GS FT	DIAM IN	PHI	GAMMA AVG LBS/IN**3	KPY LBS/IN**3	A	B	PC LB /IN
0.01	18.00	28.00	6.37E-02	2.50E+01	2.82	2.13	4.96E-01

Y IN	P LBS/IN
0.000	0.000
0.012	0.031
0.025	0.062
0.047	0.118
0.070	0.174
0.092	0.230
0.114	0.286
0.137	0.342
0.159	0.398
0.182	0.454
0.204	0.510
0.226	0.566
0.249	0.622
0.352	0.881

0.456	1.140
0.560	1.400
0.672	1.400

P-Multiplier = 1.000E+00 Y-Multiplier = 1.000E+00

#### AT THE BACKFILL SIDE

DEPTH BELOW GS FT	DIAM IN	PHI	GAMMA AVG LBS/IN**3	KPY LBS/IN**3	A	B	PC LB /IN
12.01	18.00	28.00	6.78E-02	2.50E+01	0.88	0.50	8.96E+02

Y IN	P LBS/IN
0.000	0.000
0.010	36.025
0.020	72.050
0.038	136.895
0.056	201.740
0.074	244.806
0.092	279.455
0.110	311.527
0.128	341.596
0.146	370.046
0.164	397.150
0.182	423.109
0.200	448.080
0.283	561.594
0.367	675.107
0.450	788.621
0.540	788.621

P-Multiplier = 1.000E+00 Y-Multiplier = 1.000E+00

#### AT THE EXCAVATION SIDE

DEPTH BELOW GS FT	DIAM IN	PHI	GAMMA AVG LBS/IN**3	KPY LBS/IN**3	A	B	PC LB /IN
1.01	18.00	28.00	6.37E-02	2.50E+01	2.10	1.53	6.04E+01

Y IN	P LBS/IN
0.000	0.000
0.010	3.045
0.020	6.090
0.038	11.571



0.056	17.052
0.074	22.533
0.092	28.014
0.110	33.495
0.128	38.976
0.146	44.457
0.164	49.938
0.182	55.419
0.200	60.900
0.283	86.275
0.367	111.650
0.450	126.732
0.540	126.732

P-Multiplier = 1.000E+00 Y-Multiplier = 1.000E+00

AT THE BACKFILL SIDE

DEPTH BELOW GS FT	DIAM IN	PHI	GAMMA AVG LBS/IN**3	KPY LBS/IN**3	A	B	PC LB /IN
13.02	18.00	28.00	6.75E-02	2.50E+01	0.88	0.50	9.56E+02

Y IN	P LBS/IN
0.000	0.000
0.010	39.045
0.020	78.090
0.038	148.371
0.056	218.652
0.074	261.160
0.092	298.124
0.110	332.339
0.128	364.416
0.146	394.767
0.164	423.681
0.182	451.375
0.200	478.014
0.283	599.111
0.367	720.207
0.450	841.304
0.540	841.304

P-Multiplier = 1.000E+00 Y-Multiplier = 1.000E+00

AT THE EXCAVATION SIDE

DEPTH BELOW GS	DIAM	PHI	GAMMA AVG	KPY	A	B	PC
FT	IN		LBS/IN**3	LBS/IN**3			LB /IN
2.03	18.00	28.00	6.37E-02	2.50E+01	1.47	1.04	1.21E+02

Y	P
IN	LBS/IN
0.000	0.000
0.010	6.090
0.020	12.180
0.038	23.142
0.056	34.104
0.074	45.066
0.092	56.028
0.110	66.990
0.128	77.952
0.146	88.914
0.164	99.876
0.182	110.838
0.200	121.800
0.283	142.545
0.367	159.704
0.450	176.864
0.540	176.864

P-Multiplier = 1.000E+00 Y-Multiplier = 1.000E+00

AT THE BACKFILL SIDE

DEPTH BELOW GS	DIAM	PHI	GAMMA AVG	KPY	A	B	PC
FT	IN		LBS/IN**3	LBS/IN**3			LB /IN
14.03	18.00	28.00	6.72E-02	2.50E+01	0.88	0.50	1.02E+03

Y	P
IN	LBS/IN
0.000	0.000
0.010	42.090
0.020	84.180
0.038	159.942
0.056	234.370
0.074	277.650
0.092	316.947
0.110	353.322
0.128	387.425
0.146	419.692
0.164	450.432
0.182	479.875
0.200	508.195
0.283	636.938

0.367	765.681
0.450	894.424
0.540	894.424

P-Multiplier = 1.000E+00 Y-Multiplier = 1.000E+00

#### AT THE EXCAVATION SIDE

DEPTH BELOW GS FT	DIAM IN	PHI	GAMMA AVG LBS/IN**3	KPY LBS/IN**3	A	B	PC LB /IN
3.04	18.00	28.00	6.37E-02	2.50E+01	1.05	0.70	1.81E+02

Y IN	P LBS/IN
0.000	0.000
0.010	9.135
0.020	18.270
0.038	34.713
0.056	51.156
0.074	67.599
0.092	84.042
0.110	100.075
0.128	106.329
0.146	112.074
0.164	117.408
0.182	122.401
0.200	127.106
0.283	148.288
0.367	169.469
0.450	190.650
0.540	190.650

P-Multiplier = 1.000E+00 Y-Multiplier = 1.000E+00

#### AT THE BACKFILL SIDE

DEPTH BELOW GS FT	DIAM IN	PHI	GAMMA AVG LBS/IN**3	KPY LBS/IN**3	A	B	PC LB /IN
15.04	18.00	28.00	6.70E-02	2.50E+01	0.88	0.50	1.08E+03

Y IN	P LBS/IN
0.000	0.000
0.010	45.135
0.020	90.270
0.038	171.513

0.056	248.289
0.074	294.139
0.092	335.771
0.110	374.306
0.128	410.434
0.146	444.617
0.164	477.183
0.182	508.374
0.200	538.377
0.283	674.765
0.367	811.154
0.450	947.543
0.540	947.543

P-Multiplier = 1.000E+00 Y-Multiplier = 1.000E+00

AT THE EXCAVATION SIDE

DEPTH BELOW GS	DIAM	PHI	GAMMA AVG	KPY	A	B	PC
FT	IN		LBS/IN**3	LBS/IN**3			LB /IN
4.05	18.00	28.00	6.37E-02	2.50E+01	0.90	0.53	2.41E+02

Y	P
IN	LBS/IN
0.000	0.000
0.010	12.155
0.020	24.310
0.038	46.189
0.056	62.352
0.074	72.902
0.092	82.372
0.110	91.056
0.128	99.135
0.146	106.728
0.164	113.920
0.182	120.773
0.200	127.333
0.283	157.093
0.367	186.852
0.450	216.612
0.540	216.612

P-Multiplier = 1.000E+00 Y-Multiplier = 1.000E+00

AT THE BACKFILL SIDE

DEPTH BELOW GS	DIAM	PHI	GAMMA AVG	KPY	A	B	PC
FT	IN		LBS/IN**3	LBS/IN**3			LB /IN
16.05	18.00	28.00	6.68E-02	2.50E+01	0.88	0.50	1.14E+03

Y	P
IN	LBS/IN
0.000	0.000
0.010	48.155
0.020	96.310
0.038	182.989
0.056	262.094
0.074	310.493
0.092	354.440
0.110	395.117
0.128	433.254
0.146	469.338
0.164	503.714
0.182	536.640
0.200	568.310
0.283	712.282
0.367	856.254
0.450	1000.226
0.540	1000.226

P-Multiplier = 1.000E+00 Y-Multiplier = 1.000E+00

AT THE EXCAVATION SIDE

DEPTH BELOW GS	DIAM	PHI	GAMMA AVG	KPY	A	B	PC
FT	IN		LBS/IN**3	LBS/IN**3			LB /IN
4.07	18.00	28.00	6.36E-02	2.50E+01	0.90	0.53	2.42E+02

Y	P
IN	LBS/IN
0.000	0.000
0.010	10.920
0.020	21.839
0.038	41.494
0.056	61.149
0.074	73.019
0.092	82.517
0.110	91.230
0.128	99.336
0.146	106.955
0.164	114.173
0.182	121.050
0.200	127.636
0.283	157.508

0.367	187.379
0.450	217.251
0.540	217.251

P-Multiplier = 1.000E+00 Y-Multiplier = 1.000E+00

AT THE BACKFILL SIDE

DEPTH BELOW GS FT	DIAM IN	PHI	GAMMA AVG LBS/IN**3	KPY LBS/IN**3	A	B	PC LB /IN
16.07	18.00	28.00	6.68E-02	2.50E+01	0.88	0.50	1.14E+03

Y IN	P LBS/IN
0.000	0.000
0.010	46.920
0.020	93.839
0.038	178.294
0.056	262.279
0.074	310.712
0.092	354.689
0.110	395.396
0.128	433.560
0.146	469.669
0.164	504.069
0.182	537.018
0.200	568.711
0.283	712.784
0.367	856.858
0.450	1000.931
0.540	1000.931

P-Multiplier = 1.000E+00 Y-Multiplier = 1.000E+00

AT THE EXCAVATION SIDE

DEPTH BELOW GS FT	DIAM IN	PHI	GAMMA AVG LBS/IN**3	KPY LBS/IN**3	A	B	PC LB /IN
6.14	18.00	28.00	5.54E-02	2.50E+01	0.88	0.50	3.18E+02

Y IN	P LBS/IN
0.000	0.000
0.014	24.099
0.028	48.198
0.045	64.409

0.063	78.316
0.080	90.782
0.097	102.227
0.114	112.899
0.131	122.956
0.148	132.509
0.166	141.636
0.183	150.398
0.200	158.843
0.283	199.084
0.367	239.324
0.450	279.564
0.540	279.564

P-Multiplier = 1.000E+00 Y-Multiplier = 1.000E+00

AT THE BACKFILL SIDE

DEPTH BELOW GS FT	DIAM IN	PHI	GAMMA AVG LBS/IN**3	KPY LBS/IN**3	A	B	PC LB /IN
18.14	18.00	28.00	6.36E-02	2.50E+01	0.88	0.50	1.21E+03

Y IN	P LBS/IN
0.000	0.000
0.010	53.135
0.020	106.269
0.038	201.911
0.056	279.788
0.074	331.454
0.092	378.367
0.110	421.791
0.128	462.502
0.146	501.022
0.164	537.719
0.182	572.867
0.200	606.676
0.283	760.367
0.367	914.058
0.450	1067.749
0.540	1067.749

P-Multiplier = 1.000E+00 Y-Multiplier = 1.000E+00

AT THE EXCAVATION SIDE

DEPTH BELOW GS	DIAM	PHI	GAMMA AVG	KPY	A	B	PC
FT	IN		LBS/IN**3	LBS/IN**3			LB /IN
8.22	18.00	28.00	5.13E-02	2.50E+01	0.88	0.50	3.94E+02

Y	P
IN	LBS/IN
0.000	0.000
0.011	25.770
0.022	51.539
0.040	73.854
0.058	92.442
0.075	108.872
0.093	123.835
0.111	137.711
0.129	150.738
0.147	163.076
0.164	174.839
0.182	186.112
0.200	196.961
0.283	246.858
0.367	296.754
0.450	346.651
0.540	346.651

P-Multiplier = 1.000E+00 Y-Multiplier = 1.000E+00

AT THE BACKFILL SIDE

DEPTH BELOW GS	DIAM	PHI	GAMMA AVG	KPY	A	B	PC
FT	IN		LBS/IN**3	LBS/IN**3			LB /IN
20.22	18.00	28.00	6.11E-02	2.50E+01	0.88	0.50	1.29E+03

Y	P
IN	LBS/IN
0.000	0.000
0.010	59.375
0.020	118.749
0.038	225.623
0.056	297.367
0.074	352.279
0.092	402.140
0.110	448.292
0.128	491.561
0.146	532.501
0.164	571.504
0.182	608.860
0.200	644.793
0.283	808.141



0.367	971.488
0.450	1134.836
0.540	1134.836

P-Multiplier = 1.000E+00 Y-Multiplier = 1.000E+00

#### AT THE EXCAVATION SIDE

DEPTH BELOW GS FT	DIAM IN	PHI	GAMMA AVG LBS/IN**3	KPY LBS/IN**3	A	B	PC LB /IN
10.30	18.00	28.00	4.89E-02	2.50E+01	0.88	0.50	4.70E+02

Y IN	P LBS/IN
0.000	0.000
0.009	28.036
0.019	56.073
0.037	84.323
0.055	107.407
0.073	127.645
0.091	145.991
0.109	162.956
0.128	178.850
0.146	193.880
0.164	208.194
0.182	221.899
0.200	235.078
0.283	294.631
0.367	354.185
0.450	413.738
0.540	413.738

P-Multiplier = 1.000E+00 Y-Multiplier = 1.000E+00

#### AT THE BACKFILL SIDE

DEPTH BELOW GS FT	DIAM IN	PHI	GAMMA AVG LBS/IN**3	KPY LBS/IN**3	A	B	PC LB /IN
22.30	18.00	28.00	5.91E-02	2.50E+01	0.88	0.50	1.37E+03

Y IN	P LBS/IN
0.000	0.000
0.019	123.983
0.038	247.966
0.054	308.100

0.070	361.439
0.086	410.112
0.103	455.310
0.119	497.781
0.135	538.032
0.151	576.428
0.168	613.240
0.184	648.679
0.200	682.910
0.283	855.914
0.367	1028.918
0.450	1201.922
0.540	1201.922

P-Multiplier = 1.000E+00 Y-Multiplier = 1.000E+00

AT THE EXCAVATION SIDE

DEPTH BELOW GS FT	DIAM IN	PHI	GAMMA AVG LBS/IN**3	KPY LBS/IN**3	A	B	PC LB /IN
12.37	18.00	28.00	4.72E-02	2.50E+01	0.88	0.50	5.46E+02

Y IN	P LBS/IN
0.000	0.000
0.009	30.568
0.017	61.135
0.035	95.208
0.054	122.683
0.072	146.642
0.090	168.299
0.109	188.288
0.127	206.992
0.145	224.664
0.163	241.481
0.182	257.574
0.200	273.043
0.283	342.214
0.367	411.385
0.450	480.556
0.540	480.556

P-Multiplier = 1.000E+00 Y-Multiplier = 1.000E+00

AT THE BACKFILL SIDE

DEPTH BELOW GS	DIAM	PHI	GAMMA AVG	KPY	A	B	PC
FT	IN		LBS/IN**3	LBS/IN**3			LB /IN
24.37	18.00	28.00	5.74E-02	2.50E+01	0.88	0.50	1.44E+03

Y	P
IN	LBS/IN
0.000	0.000
0.017	123.692
0.034	247.384
0.051	314.064
0.068	372.611
0.084	425.732
0.101	474.878
0.117	520.940
0.134	564.511
0.150	606.012
0.167	645.756
0.183	683.981
0.200	720.875
0.283	903.497
0.367	1086.119
0.450	1268.740
0.540	1268.740

P-Multiplier = 1.000E+00 Y-Multiplier = 1.000E+00

AT THE EXCAVATION SIDE

KPY	DEPTH BELOW GS	DIAM	C	CAVG	GAMMA AVG	E50
	FT	IN	LBS/IN**2	LBS/IN**2	LBS/IN**3	
LBS/IN**3	12.39	18.000	1.04E+01	1.04E+01	4.72E-02	1.0000E-02
3.50000E+02						

Y	P
IN	LBS/IN
0.000	0.000
0.036	137.318
0.072	194.197
0.108	226.247
0.144	247.058
0.180	261.273
0.216	270.768
0.252	276.616
0.288	279.511
0.324	279.933
0.360	278.234

0.396	274.684
0.432	269.492
0.720	194.390
1.008	119.178
1.296	43.966
10.800	43.966

P-Multiplier = 1.000E+00 Y-Multiplier = 1.000E+00

#### AT THE BACKFILL SIDE

KPY	DEPTH BELOW GS	DIAM	C	CAVG	GAMMA AVG	E50
	FT	IN	LBS/IN**2	LBS/IN**2	LBS/IN**3	
LBS/IN**3	24.39	18.000	1.04E+01	1.04E+01	5.74E-02	1.0000E-02
3.50000E+02						

Y	P
IN	LBS/IN
0.000	0.000
0.036	194.030
0.072	274.400
0.108	319.686
0.144	349.093
0.180	369.178
0.216	382.594
0.252	390.858
0.288	394.948
0.324	395.544
0.360	393.144
0.396	388.127
0.432	380.791
0.720	274.673
1.008	168.398
1.296	62.123
10.800	62.123

P-Multiplier = 1.000E+00 Y-Multiplier = 1.000E+00

#### AT THE EXCAVATION SIDE

KPY	DEPTH BELOW GS	DIAM	C	CAVG	GAMMA AVG	E50
	FT	IN	LBS/IN**2	LBS/IN**2	LBS/IN**3	
LBS/IN**3						

14.88 18.000 1.04E+01 1.04E+01 4.74E-02 1.0000E-02  
3.50000E+02

Y IN	P LBS/IN
0.000	0.000
0.036	144.380
0.072	204.184
0.108	237.882
0.144	259.764
0.180	274.709
0.216	284.693
0.252	290.842
0.288	293.885
0.324	294.329
0.360	292.543
0.396	288.810
0.432	283.351
0.720	204.387
1.008	125.307
1.296	46.227
10.800	46.227

P-Multiplier = 1.000E+00 Y-Multiplier = 1.000E+00

AT THE BACKFILL SIDE

KPY	DEPTH BELOW GS FT	DIAM IN	C LBS/IN**2	CAVG LBS/IN**2	GAMMA AVG LBS/IN**3	E50
LBS/IN**3	26.88	18.000	1.04E+01	1.22E+01	5.65E-02	1.0000E-02

3.50000E+02

Y IN	P LBS/IN
0.000	0.000
0.036	201.092
0.072	284.387
0.108	331.321
0.144	361.798
0.180	382.614
0.216	396.519
0.252	405.084
0.288	409.322
0.324	409.940
0.360	407.453
0.396	402.253

0.432	394.650
0.720	284.670
1.008	174.527
1.296	64.384
10.800	64.384

P-Multiplier = 1.000E+00 Y-Multiplier = 1.000E+00

#### AT THE EXCAVATION SIDE

KPY	DEPTH BELOW GS	DIAM	C	CAVG	GAMMA AVG	E50
	FT	IN	LBS/IN**2	LBS/IN**2	LBS/IN**3	
LBS/IN**3	17.38	18.000	1.04E+01	4.07E+01	4.74E-02	1.0000E-02
3.50000E+02						

Y	P
IN	LBS/IN
0.000	0.000
0.036	151.465
0.072	214.205
0.108	249.556
0.144	272.512
0.180	288.191
0.216	298.664
0.252	305.115
0.288	308.308
0.324	308.773
0.360	306.900
0.396	302.983
0.432	297.256
0.720	214.417
1.008	131.456
1.296	48.495
10.800	48.495

P-Multiplier = 1.000E+00 Y-Multiplier = 1.000E+00

#### AT THE BACKFILL SIDE

KPY	DEPTH BELOW GS	DIAM	C	CAVG	GAMMA AVG	E50
	FT	IN	LBS/IN**2	LBS/IN**2	LBS/IN**3	
LBS/IN**3	29.38	18.000	1.04E+01	2.08E+01	5.58E-02	1.0000E-02

3.50000E+02

Y	P
IN	LBS/IN
0.000	0.000
0.036	208.177
0.072	294.407
0.108	342.995
0.144	374.546
0.180	396.095
0.216	410.490
0.252	419.357
0.288	423.745
0.324	424.384
0.360	421.809
0.396	416.427
0.432	408.555
0.720	294.700
1.008	180.676
1.296	66.653
10.800	66.653

P-Multiplier = 1.000E+00 Y-Multiplier = 1.000E+00

AT THE EXCAVATION SIDE

KPY	DEPTH BELOW GS	DIAM	C	CAVG	GAMMA AVG	E50
	FT	IN	LBS/IN**2	LBS/IN**2	LBS/IN**3	
LBS/IN**3	19.88	18.000	1.04E+01	5.07E+01	4.75E-02	1.0000E-02
3.50000E+02						

Y	P
IN	LBS/IN
0.000	0.000
0.036	158.551
0.072	224.225
0.108	261.230
0.144	285.260
0.180	301.672
0.216	312.635
0.252	319.388
0.288	322.730
0.324	323.217
0.360	321.256
0.396	317.157
0.432	311.162

0.720	224.448
1.008	137.606
1.296	50.764
10.800	50.764

P-Multiplier = 1.000E+00 Y-Multiplier = 1.000E+00

#### AT THE BACKFILL SIDE

KPY	DEPTH BELOW GS	DIAM	C	CAVG	GAMMA AVG	E50
	FT	IN	LBS/IN**2	LBS/IN**2	LBS/IN**3	
LBS/IN**3	31.88	18.000	1.04E+01	2.72E+01	5.52E-02	1.0000E-02
3.50000E+02						

Y	P
IN	LBS/IN
0.000	0.000
0.036	215.263
0.072	304.428
0.108	354.670
0.144	387.294
0.180	409.577
0.216	424.461
0.252	433.630
0.288	438.167
0.324	438.829
0.360	436.166
0.396	430.600
0.432	422.461
0.720	304.730
1.008	186.826
1.296	68.922
10.800	68.922

P-Multiplier = 1.000E+00 Y-Multiplier = 1.000E+00

#### AT THE EXCAVATION SIDE

KPY	DEPTH BELOW GS	DIAM	C	CAVG	GAMMA AVG	E50
	FT	IN	LBS/IN**2	LBS/IN**2	LBS/IN**3	
LBS/IN**3	22.37	18.000	1.04E+01	5.58E+01	4.75E-02	1.0000E-02
3.50000E+02						



Y	P
IN	LBS/IN
0.000	0.000
0.036	165.613
0.072	234.212
0.108	272.866
0.144	297.965
0.180	315.109
0.216	326.560
0.252	333.614
0.288	337.105
0.324	337.614
0.360	335.565
0.396	331.283
0.432	325.021
0.720	234.445
1.008	143.735
1.296	53.025
10.800	53.025

P-Multiplier = 1.000E+00 Y-Multiplier = 1.000E+00

AT THE BACKFILL SIDE

KPY	DEPTH BELOW GS	DIAM	C	CAVG	GAMMA AVG	E50
	FT	IN	LBS/IN**2	LBS/IN**2	LBS/IN**3	
LBS/IN**3	34.37	18.000	1.04E+01	3.22E+01	5.46E-02	1.0000E-02
3.50000E+02						

Y	P
IN	LBS/IN
0.000	0.000
0.036	222.325
0.072	314.415
0.108	366.305
0.144	400.000
0.180	423.013
0.216	438.386
0.252	447.855
0.288	452.542
0.324	453.225
0.360	450.475
0.396	444.726
0.432	436.320
0.720	314.727

1.008	192.955
1.296	71.183
10.800	71.183

P-Multiplier = 1.000E+00 Y-Multiplier = 1.000E+00

#### AT THE EXCAVATION SIDE

KPY	DEPTH BELOW GS FT	DIAM IN	C LBS/IN**2	CAVG LBS/IN**2	GAMMA AVG LBS/IN**3	E50
LBS/IN**3	22.39	18.000	3.12E+01	3.12E+01	4.75E-02	4.0000E-03
1.50000E+03						

Y IN	P LBS/IN
0.000	0.000
0.014	371.056
0.029	524.752
0.043	611.356
0.058	667.592
0.072	706.002
0.086	731.659
0.101	747.463
0.115	755.284
0.130	756.424
0.144	751.835
0.158	742.241
0.173	728.210
0.288	525.274
0.403	322.038
0.518	118.803
4.320	118.803

P-Multiplier = 1.000E+00 Y-Multiplier = 1.000E+00

#### AT THE BACKFILL SIDE

KPY	DEPTH BELOW GS FT	DIAM IN	C LBS/IN**2	CAVG LBS/IN**2	GAMMA AVG LBS/IN**3	E50
LBS/IN**3	34.39	18.000	3.12E+01	3.12E+01	5.46E-02	4.0000E-03
1.50000E+03						

Y	P
IN	LBS/IN
0.000	0.000
0.014	427.768
0.029	604.955
0.043	704.795
0.058	769.626
0.072	813.907
0.086	843.485
0.101	861.704
0.115	870.721
0.130	872.035
0.144	866.744
0.158	855.684
0.173	839.510
0.288	605.556
0.403	371.258
0.518	136.960
4.320	136.960

P-Multiplier = 1.000E+00 Y-Multiplier = 1.000E+00

# AT THE EXCAVATION SIDE

KPY	DEPTH BELOW GS	DIAM	C	CAVG	GAMMA AVG	E50
	FT	IN	LBS/IN**2	LBS/IN**2	LBS/IN**3	
LBS/IN**3	22.96	18.000	3.12E+01	3.12E+01	4.76E-02	4.0000E-03
1.50000E+03						

Y	P
IN	LBS/IN
0.000	0.000
0.014	372.690
0.029	527.064
0.043	614.049
0.058	670.533
0.072	709.112
0.086	734.882
0.101	750.755
0.115	758.611
0.130	759.756
0.144	755.146
0.158	745.510
0.173	731.418
0.288	527.588
0.403	323.457

0.518	119.326
4.320	119.326

P-Multiplier = 1.000E+00 Y-Multiplier = 1.000E+00

# AT THE BACKFILL SIDE

KPY	DEPTH BELOW GS	DIAM	C	CAVG	GAMMA AVG	E50
	FT	IN	LBS/IN**2	LBS/IN**2	LBS/IN**3	
LBS/IN**3	34.96	18.000	3.12E+01	3.27E+01	5.45E-02	4.0000E-03
1.50000E+03						

Y	P
IN	LBS/IN
0.000	0.000
0.014	429.402
0.029	607.267
0.043	707.488
0.058	772.567
0.072	817.016
0.086	846.708
0.101	864.997
0.115	874.048
0.130	875.367
0.144	870.056
0.158	858.953
0.173	842.717
0.288	607.870
0.403	372.677
0.518	137.483
4.320	137.483

P-Multiplier = 1.000E+00 Y-Multiplier = 1.000E+00

# AT THE EXCAVATION SIDE

KPY	DEPTH BELOW GS	DIAM	C	CAVG	GAMMA AVG	E50
	FT	IN	LBS/IN**2	LBS/IN**2	LBS/IN**3	
LBS/IN**3	23.55	18.000	3.12E+01	3.70E+02	4.76E-02	4.0000E-03
1.50000E+03						

Y	P
---	---

IN	LBS/IN
0.000	0.000
0.014	374.348
0.029	529.409
0.043	616.781
0.058	673.516
0.072	712.266
0.086	738.151
0.101	754.095
0.115	761.986
0.130	763.136
0.144	758.506
0.158	748.827
0.173	734.672
0.288	529.935
0.403	324.896
0.518	119.857
4.320	119.857

P-Multiplier = 1.000E+00 Y-Multiplier = 1.000E+00

AT THE BACKFILL SIDE

KPY	DEPTH BELOW GS	DIAM	C	CAVG	GAMMA AVG	E50
	FT	IN	LBS/IN**2	LBS/IN**2	LBS/IN**3	
LBS/IN**3	35.55	18.000	3.12E+01	6.25E+01	5.44E-02	4.0000E-03
1.50000E+03						

Y	P
IN	LBS/IN
0.000	0.000
0.014	431.060
0.029	609.611
0.043	710.220
0.058	775.550
0.072	820.171
0.086	849.977
0.101	868.337
0.115	877.423
0.130	878.747
0.144	873.415
0.158	862.270
0.173	845.971
0.288	610.217
0.403	374.116
0.518	138.014

4.320 138.014

P-Multiplier = 1.000E+00 Y-Multiplier = 1.000E+00

AT THE EXCAVATION SIDE

KPY	DEPTH BELOW GS	DIAM	C	CAVG	GAMMA AVG	E50
	FT	IN	LBS/IN**2	LBS/IN**2	LBS/IN**3	
LBS/IN**3	24.14	18.000	3.12E+01	4.81E+02	4.76E-02	4.0000E-03
1.50000E+03						

Y	P
IN	LBS/IN
0.000	0.000
0.014	376.006
0.029	531.753
0.043	619.512
0.058	676.499
0.072	715.421
0.086	741.420
0.101	757.435
0.115	765.361
0.130	766.516
0.144	761.865
0.158	752.143
0.173	737.926
0.288	532.282
0.403	326.335
0.518	120.388
4.320	120.388

P-Multiplier = 1.000E+00 Y-Multiplier = 1.000E+00

AT THE BACKFILL SIDE

KPY	DEPTH BELOW GS	DIAM	C	CAVG	GAMMA AVG	E50
	FT	IN	LBS/IN**2	LBS/IN**2	LBS/IN**3	
LBS/IN**3	36.13	18.000	3.12E+01	8.98E+01	5.43E-02	4.0000E-03
1.50000E+03						

Y	P
IN	LBS/IN

0.000	0.000
0.014	432.718
0.029	611.956
0.043	712.952
0.058	778.533
0.072	823.326
0.086	853.246
0.101	871.677
0.115	880.798
0.130	882.127
0.144	876.775
0.158	865.587
0.173	849.225
0.288	612.564
0.403	375.555
0.518	138.545
4.320	138.545

P-Multiplier = 1.000E+00 Y-Multiplier = 1.000E+00

# AT THE EXCAVATION SIDE

KPY	DEPTH BELOW GS	DIAM	C	CAVG	GAMMA AVG	E50
	FT	IN	LBS/IN**2	LBS/IN**2	LBS/IN**3	
LBS/IN**3	24.71	18.000	3.12E+01	5.39E+02	4.76E-02	4.0000E-03
1.50000E+03						

Y	P
IN	LBS/IN
0.000	0.000
0.014	377.641
0.029	534.065
0.043	622.205
0.058	679.439
0.072	718.531
0.086	744.643
0.101	760.727
0.115	768.688
0.130	769.848
0.144	765.177
0.158	755.412
0.173	741.133
0.288	534.596
0.403	327.753
0.518	120.911
4.320	120.911

P-Multiplier = 1.000E+00 Y-Multiplier = 1.000E+00

AT THE BACKFILL SIDE

DEPTH	BELOW GS	DIAM	C	CAVG	GAMMA	AVG	E50
KPY							
	FT	IN	LBS/IN**2	LBS/IN**2	LBS/IN**3		
LBS/IN**3							
	36.71	18.000	3.12E+01	1.15E+02	5.42E-02	4.0000E-03	
1.5000E+03							

Y	P
IN	LBS/IN
0.000	0.000
0.014	434.353
0.029	614.267
0.043	715.644
0.058	781.474
0.072	826.435
0.086	856.469
0.101	874.969
0.115	884.125
0.130	885.459
0.144	880.086
0.158	868.856
0.173	852.432
0.288	614.878
0.403	376.973
0.518	139.068
4.320	139.068

P-Multiplier = 1.000E+00 Y-Multiplier = 1.000E+00

## New Wall

## RESULTS

\_\_\_\_\_

NUMBER OF ITERATIONS : 7

\*\*\*\*\* ANALYSIS COMPLETED \*\*\*\*\*

STA I	X	DEFL.	SLOPE	MOMENT	SHEAR	SOIL_REACT
NET_FORCE/STA	EI					
	FT	IN	RAD	LBS-IN	LBS	LBS/IN
LBS	LBS-IN**2					



-----	-----					
0	0.000E+00	3.215E+00	-1.508E-02	-1.907E-07	-4.414E-08	0.000E+00
0.000E+00	8.013E+09					
1	3.600E-01	3.150E+00	-1.508E-02	-3.813E-07	3.355E+01	0.000E+00
6.710E+01	8.013E+09					
2	7.200E-01	3.085E+00	-1.508E-02	2.899E+02	1.057E+02	0.000E+00
7.727E+01	8.013E+09					
3	1.080E+00	3.020E+00	-1.507E-02	9.135E+02	1.881E+02	0.000E+00
8.743E+01	8.013E+09					
4	1.440E+00	2.955E+00	-1.507E-02	1.915E+03	2.806E+02	0.000E+00
9.760E+01	8.013E+09					
5	1.800E+00	2.890E+00	-1.507E-02	3.338E+03	3.833E+02	0.000E+00
1.078E+02	8.013E+09					
6	2.160E+00	2.825E+00	-1.507E-02	5.226E+03	4.961E+02	0.000E+00
1.179E+02	8.013E+09					
7	2.520E+00	2.760E+00	-1.507E-02	7.624E+03	6.191E+02	0.000E+00
1.281E+02	8.013E+09					
8	2.880E+00	2.695E+00	-1.506E-02	1.058E+04	7.523E+02	0.000E+00
1.383E+02	8.013E+09					
9	3.240E+00	2.629E+00	-1.506E-02	1.412E+04	8.957E+02	0.000E+00
1.484E+02	8.013E+09					
10	3.600E+00	2.564E+00	-1.505E-02	1.831E+04	1.049E+03	0.000E+00
1.586E+02	8.013E+09					
11	3.960E+00	2.499E+00	-1.504E-02	2.319E+04	1.213E+03	0.000E+00
1.688E+02	8.013E+09					
12	4.320E+00	2.435E+00	-1.502E-02	2.879E+04	1.387E+03	0.000E+00
1.789E+02	8.013E+09					
13	4.680E+00	2.370E+00	-1.500E-02	3.517E+04	1.571E+03	0.000E+00
1.891E+02	8.013E+09					
14	5.040E+00	2.305E+00	-1.498E-02	4.236E+04	1.765E+03	0.000E+00
1.993E+02	8.013E+09					
15	5.400E+00	2.240E+00	-1.496E-02	5.042E+04	1.969E+03	0.000E+00
2.094E+02	8.013E+09					
16	5.760E+00	2.176E+00	-1.493E-02	5.938E+04	2.184E+03	0.000E+00
2.196E+02	8.013E+09					
17	6.120E+00	2.111E+00	-1.489E-02	6.929E+04	2.408E+03	0.000E+00
2.298E+02	8.013E+09					
18	6.480E+00	2.047E+00	-1.485E-02	8.019E+04	2.643E+03	0.000E+00
2.390E+02	8.013E+09					
19	6.840E+00	1.983E+00	-1.481E-02	9.212E+04	2.886E+03	0.000E+00
2.480E+02	8.013E+09					
20	7.200E+00	1.919E+00	-1.475E-02	1.051E+05	3.139E+03	0.000E+00
2.570E+02	8.013E+09					
21	7.560E+00	1.855E+00	-1.469E-02	1.192E+05	3.400E+03	0.000E+00
2.661E+02	8.013E+09					
22	7.920E+00	1.792E+00	-1.463E-02	1.345E+05	3.671E+03	0.000E+00
2.751E+02	8.013E+09					
23	8.280E+00	1.729E+00	-1.455E-02	1.510E+05	3.950E+03	0.000E+00
2.841E+02	8.013E+09					
24	8.640E+00	1.666E+00	-1.446E-02	1.686E+05	4.239E+03	0.000E+00

2.931E+02	8.013E+09						
25	9.000E+00	1.604E+00	-1.437E-02	1.876E+05	4.537E+03	0.000E+00	
3.021E+02	8.013E+09						
26	9.360E+00	1.542E+00	-1.426E-02	2.078E+05	4.843E+03	0.000E+00	
3.111E+02	8.013E+09						
27	9.720E+00	1.481E+00	-1.414E-02	2.294E+05	5.159E+03	0.000E+00	
3.202E+02	8.013E+09						
28	1.008E+01	1.420E+00	-1.401E-02	2.524E+05	5.484E+03	0.000E+00	
3.292E+02	8.013E+09						
29	1.044E+01	1.360E+00	-1.387E-02	2.768E+05	5.817E+03	0.000E+00	
3.382E+02	8.013E+09						
30	1.080E+01	1.300E+00	-1.371E-02	3.027E+05	6.160E+03	0.000E+00	
3.472E+02	8.013E+09						
31	1.116E+01	1.241E+00	-1.354E-02	3.300E+05	6.512E+03	0.000E+00	
3.562E+02	8.013E+09						
32	1.152E+01	1.183E+00	-1.336E-02	3.589E+05	6.873E+03	0.000E+00	
3.653E+02	8.013E+09						
33	1.188E+01	1.126E+00	-1.315E-02	3.894E+05	7.241E+03	-7.000E-01	
3.713E+02	8.013E+09						
34	1.224E+01	1.070E+00	-1.294E-02	4.215E+05	7.495E+03	-4.317E+01	
1.365E+02	8.013E+09						
35	1.260E+01	1.014E+00	-1.270E-02	4.542E+05	7.541E+03	-8.493E+01	
-4.394E+01	8.013E+09						
36	1.296E+01	9.599E-01	-1.245E-02	4.866E+05	7.407E+03	-1.267E+02	
-2.244E+02	8.013E+09						
37	1.332E+01	9.067E-01	-1.218E-02	5.182E+05	7.146E+03	-1.434E+02	
-2.967E+02	8.013E+09						
38	1.368E+01	8.547E-01	-1.189E-02	5.484E+05	6.813E+03	-1.602E+02	
-3.689E+02	8.013E+09						
39	1.404E+01	8.039E-01	-1.158E-02	5.770E+05	6.408E+03	-1.769E+02	
-4.412E+02	8.013E+09						
40	1.440E+01	7.546E-01	-1.127E-02	6.038E+05	5.957E+03	-1.815E+02	
-4.611E+02	8.013E+09						
41	1.476E+01	7.066E-01	-1.093E-02	6.285E+05	5.486E+03	-1.861E+02	
-4.810E+02	8.013E+09						
42	1.512E+01	6.601E-01	-1.059E-02	6.512E+05	4.995E+03	-1.907E+02	
-5.008E+02	8.013E+09						
43	1.548E+01	6.151E-01	-1.023E-02	6.717E+05	4.476E+03	-1.993E+02	
-5.381E+02	8.013E+09						
44	1.584E+01	5.717E-01	-9.866E-03	6.898E+05	3.919E+03	-2.080E+02	
-5.754E+02	8.013E+09						
45	1.620E+01	5.299E-01	-9.490E-03	7.055E+05	3.325E+03	-2.166E+02	
-6.127E+02	8.013E+09						
46	1.656E+01	4.897E-01	-9.106E-03	7.186E+05	2.685E+03	-2.292E+02	
-6.672E+02	8.013E+09						
47	1.692E+01	4.512E-01	-8.716E-03	7.287E+05	1.991E+03	-2.418E+02	
-7.216E+02	8.013E+09						
48	1.728E+01	4.144E-01	-8.321E-03	7.358E+05	1.275E+03	-2.390E+02	
-7.094E+02	8.013E+09						
49	1.764E+01	3.793E-01	-7.923E-03	7.397E+05	5.751E+02	-2.346E+02	

-6.905E+02	8.013E+09					
50	1.800E+01	3.459E-01	-7.524E-03	7.407E+05	-1.039E+02	-2.293E+02
-6.675E+02	8.013E+09					
51	1.836E+01	3.143E-01	-7.125E-03	7.388E+05	-7.570E+02	-2.226E+02
-6.387E+02	8.013E+09					
52	1.872E+01	2.844E-01	-6.728E-03	7.342E+05	-1.381E+03	-2.156E+02
-6.084E+02	8.013E+09					
53	1.908E+01	2.562E-01	-6.334E-03	7.269E+05	-1.973E+03	-2.083E+02
-5.769E+02	8.013E+09					
54	1.944E+01	2.296E-01	-5.945E-03	7.171E+05	-2.534E+03	-2.009E+02
-5.448E+02	8.013E+09					
55	1.980E+01	2.048E-01	-5.562E-03	7.050E+05	-3.063E+03	-1.934E+02
-5.126E+02	8.013E+09					
56	2.016E+01	1.816E-01	-5.185E-03	6.907E+05	-3.559E+03	-1.857E+02
-4.793E+02	8.013E+09					
57	2.052E+01	1.600E-01	-4.817E-03	6.743E+05	-4.020E+03	-1.775E+02
-4.436E+02	8.013E+09					
58	2.088E+01	1.400E-01	-4.459E-03	6.559E+05	-4.445E+03	-1.687E+02
-4.058E+02	8.013E+09					
59	2.124E+01	1.215E-01	-4.111E-03	6.359E+05	-4.831E+03	-1.594E+02
-3.658E+02	8.013E+09					
60	2.160E+01	1.045E-01	-3.774E-03	6.142E+05	-5.175E+03	-1.497E+02
-3.238E+02	8.013E+09					
61	2.196E+01	8.887E-02	-3.449E-03	5.911E+05	-5.477E+03	-1.396E+02
-2.800E+02	8.013E+09					
62	2.232E+01	7.466E-02	-3.136E-03	5.669E+05	-5.735E+03	-1.290E+02
-2.344E+02	8.013E+09					
63	2.268E+01	6.177E-02	-2.838E-03	5.416E+05	-5.945E+03	-1.179E+02
-1.862E+02	8.013E+09					
64	2.304E+01	5.014E-02	-2.553E-03	5.155E+05	-6.106E+03	-1.065E+02
-1.370E+02	8.013E+09					
65	2.340E+01	3.971E-02	-2.282E-03	4.888E+05	-6.218E+03	-9.474E+01
-8.629E+01	8.013E+09					
66	2.376E+01	3.042E-02	-2.026E-03	4.618E+05	-6.277E+03	-8.201E+01
-3.132E+01	8.013E+09					
67	2.412E+01	2.221E-02	-1.784E-03	4.346E+05	-6.280E+03	-6.914E+01
2.430E+01	8.013E+09					
68	2.448E+01	1.501E-02	-1.557E-03	4.075E+05	-6.385E+03	-5.379E+01
-2.324E+02	8.013E+09					
69	2.484E+01	8.758E-03	-1.345E-03	3.794E+05	-6.570E+03	-3.192E+01
-1.379E+02	8.013E+09					
70	2.520E+01	3.390E-03	-1.148E-03	3.508E+05	-6.666E+03	-1.256E+01
-5.427E+01	8.013E+09					
71	2.556E+01	-1.161E-03	-9.667E-04	3.219E+05	-6.677E+03	7.544E+00
3.259E+01	8.013E+09					
72	2.592E+01	-4.962E-03	-8.009E-04	2.931E+05	-6.593E+03	3.112E+01
1.344E+02	8.013E+09					
73	2.628E+01	-8.081E-03	-6.505E-04	2.649E+05	-6.420E+03	4.883E+01
2.109E+02	8.013E+09					
74	2.664E+01	-1.058E-02	-5.151E-04	2.376E+05	-6.182E+03	6.153E+01

2.658E+02	8.013E+09					
75	2.700E+01	-1.253E-02	-3.940E-04	2.115E+05	-5.898E+03	7.000E+01
3.024E+02	8.013E+09					
76	2.736E+01	-1.399E-02	-2.867E-04	1.866E+05	-5.577E+03	7.853E+01
3.392E+02	8.013E+09					
77	2.772E+01	-1.501E-02	-1.923E-04	1.633E+05	-5.225E+03	8.468E+01
3.658E+02	8.013E+09					
78	2.808E+01	-1.565E-02	-1.102E-04	1.415E+05	-4.850E+03	8.874E+01
3.834E+02	8.013E+09					
79	2.844E+01	-1.596E-02	-3.932E-05	1.214E+05	-4.462E+03	9.095E+01
3.929E+02	8.013E+09					
80	2.880E+01	-1.599E-02	2.116E-05	1.030E+05	-4.068E+03	9.157E+01
3.956E+02	8.013E+09					
81	2.916E+01	-1.578E-02	7.216E-05	8.624E+04	-3.674E+03	9.080E+01
3.923E+02	8.013E+09					
82	2.952E+01	-1.536E-02	1.146E-04	7.122E+04	-3.286E+03	8.886E+01
3.839E+02	8.013E+09					
83	2.988E+01	-1.479E-02	1.494E-04	5.785E+04	-2.908E+03	8.593E+01
3.712E+02	8.013E+09					
84	3.024E+01	-1.407E-02	1.774E-04	4.609E+04	-2.545E+03	8.219E+01
3.551E+02	8.013E+09					
85	3.060E+01	-1.325E-02	1.995E-04	3.586E+04	-2.199E+03	7.777E+01
3.360E+02	8.013E+09					
86	3.096E+01	-1.235E-02	2.165E-04	2.709E+04	-1.874E+03	7.282E+01
3.146E+02	8.013E+09					
87	3.132E+01	-1.138E-02	2.291E-04	1.967E+04	-1.571E+03	6.744E+01
2.913E+02	8.013E+09					
88	3.168E+01	-1.037E-02	2.380E-04	1.351E+04	-1.292E+03	6.173E+01
2.667E+02	8.013E+09					
89	3.204E+01	-9.327E-03	2.440E-04	8.508E+03	-1.038E+03	5.578E+01
2.410E+02	8.013E+09					
90	3.240E+01	-8.263E-03	2.475E-04	4.543E+03	-8.105E+02	4.969E+01
2.146E+02	8.013E+09					
91	3.276E+01	-7.189E-03	2.491E-04	1.505E+03	-6.093E+02	4.346E+01
1.877E+02	8.013E+09					
92	3.312E+01	-6.111E-03	2.493E-04	-7.214E+02	-4.352E+02	3.714E+01
1.604E+02	8.013E+09					
93	3.348E+01	-5.034E-03	2.485E-04	-2.255E+03	-2.886E+02	3.076E+01
1.329E+02	8.013E+09					
94	3.384E+01	-3.963E-03	2.471E-04	-3.215E+03	-1.695E+02	2.435E+01
1.052E+02	8.013E+09					
95	3.420E+01	-2.900E-03	2.452E-04	-3.720E+03	-7.828E+01	1.791E+01
7.735E+01	8.013E+09					
96	3.456E+01	-1.845E-03	2.431E-04	-3.891E+03	7.878E+01	5.481E+01
2.368E+02	8.013E+09					
97	3.492E+01	-7.991E-04	2.413E-04	-3.039E+03	2.486E+02	2.383E+01
1.029E+02	8.013E+09					
98	3.528E+01	2.397E-04	2.400E-04	-1.743E+03	2.867E+02	-6.216E+00
-2.686E+01	8.013E+09					
99	3.564E+01	1.274E-03	2.394E-04	-5.623E+02	2.017E+02	-3.312E+01

-1.431E+02	8.013E+09						
100	3.600E+01	2.308E-03	2.392E-04	-1.862E-10	6.508E+01	-3.013E+01	
-1.302E+02	8.013E+09						

END OF ANALYSIS