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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\_RA Service with water.py7d  
Name of output file : Temp Shoring\_RA Service with water.py7o  
Name of plot output file : Temp Shoring\_RA Service with water.py7p

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Time and Date of Analysis  
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Date: December 19, 2025 Time: 10:54:57

New Wall

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\* 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	=	40.100 FT
NUMBER OF INCREMENTS	=	100
INCREMENT LENGTH	=	4.812 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	40.1000	1

\* CROSS SECTIONS \*

CROSS SECTION : 1  
 SECTION NAME : PZ  
 TYPE : ELASTIC  
 CROSS SECTION TYPE : SHEET PILING  
 SOURCE : USS  
 SECTION NAME : PZ  
 WIDTH : 19.6900 IN  
 DEPTH : 16.1000 IN  
 WEB THICKNESS : 0.50000 IN  
 YOUNG MODULUS : 2.90000E+07 LBS/IN\*\*2

\* CROSS SECTIONS PROPERTIES \*

ELASTIC SECTIONS

SECT	DIAM, IN	I, IN**4
1	19.6900	805.400

\*\*\*\*\*  
 \* STIFFNESS AND LOAD DATA \*  
 \*\*\*\*\*

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		2.336E+10	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
100	0		2.336E+10	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

\*\*\*\*\*  
 \* WALL INFORMATION \*  
 \*\*\*\*\*

FREE HEIGHT OF WALL = 1.220E+01 FT  
 WIDTH FOR EARTH PRESSURE, WA = 1.969E+01 IN  
 WIDTH FOR SOIL RESISTANCE, WP = 1.969E+01 IN  
 DEPTH TO THE WATER TABLE AT BACKFILL = 8.270E+00 FT  
 DEPTH TO THE WATER TABLE AT EXCAVATION = 1.220E+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 \*  
 \*\*\*\*\*

LAYER NO.	TOTAL	COHESION/	TOTAL UNIT			
	THICKNESS	STRENGTH	PHI	WEIGHT	DRAINED	ZTOP
	FT	PSI	DEG	PCI	T OR F	FT
1	8.3	5.2	0.0	0.072	T	0.00
2	3.0	1.7	0.0	0.084	T	8.27
3	0.9	0.0	28.0	0.075	T	11.28
4	6.4	0.0	28.0	0.075	T	12.20
5	4.5	5.2	0.0	0.084	F	18.58
6	10.0	10.4	0.0	0.084	F	23.08
7	16.5	31.2	0.0	0.087	F	33.08

\*\*\*\*\*  
 \* EFFECTIVE OVERBURDEN STRESS \*  
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DEPTH FT	STRESS LBS/IN**2
0.000E+00	1.736E+00
8.270E+00	8.857E+00
1.128E+01	1.059E+01
1.220E+01	1.102E+01
1.858E+01	1.402E+01
2.308E+01	1.661E+01
3.308E+01	2.236E+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	1.000E+00	1.000E+00	4.217E-01
3	3.610E-01	2.770E+00	4.217E-01
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
7	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	72.66	4.13	149.02	5.51	0.00	-0.00	0.00
2	134.92	9.78	13.18	10.28	0.00	-0.00	0.00
3	49.30	11.74	1.01	11.89	0.00	-0.00	0.00

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 \* ACTIVE WATER PRESSURE OF EACH LAYER \*  
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LAYER NO	PW1 LBS/IN	Z1 FT	PW2 LBS/IN	Z2 FT
2	0.00	9.78	23.48	10.28
3	14.36	11.74	2.19	11.89

\* GENERATED TRIANGULAR-DISTRIBUTION EARTH PRESSURE

DEPTH FT	ACTIVE EARTH PRESSURE LBS/IN
-----	-----
0.00000E+00	1.44164E+01
5.01208E-01	1.80004E+01
1.00242E+00	2.15842E+01
1.50367E+00	2.51678E+01
2.00483E+00	2.87513E+01
2.50608E+00	3.23369E+01
3.00725E+00	3.59205E+01
3.50850E+00	3.95040E+01
4.00967E+00	4.30876E+01
4.51092E+00	4.66712E+01
5.01208E+00	5.02568E+01
5.51333E+00	5.38403E+01
6.01458E+00	5.74239E+01
6.51575E+00	6.10075E+01
7.01700E+00	6.45911E+01
7.51817E+00	6.81747E+01
8.01942E+00	7.17602E+01
8.52083E+00	7.68776E+01
9.02250E+00	8.35388E+01
9.52417E+00	9.02019E+01
1.00258E+01	9.68630E+01
1.05275E+01	1.03526E+02
1.10292E+01	1.10187E+02
1.15308E+01	1.16640E+02
1.20325E+01	1.22872E+02
1.25317E+01	1.11776E+02
1.30283E+01	1.11776E+02
1.35258E+01	1.11776E+02
1.40225E+01	1.11776E+02
1.45200E+01	1.11776E+02
1.50175E+01	1.11776E+02
1.55142E+01	1.11776E+02
1.60117E+01	1.11776E+02
1.65083E+01	1.11776E+02
1.70058E+01	1.11776E+02
1.75025E+01	1.11776E+02
1.80000E+01	1.11776E+02

1.84975E+01	1.11776E+02
1.89967E+01	4.53323E+01
1.94967E+01	4.53323E+01
1.99967E+01	4.53323E+01
2.04967E+01	4.53323E+01
2.09967E+01	4.53323E+01
2.14967E+01	4.53323E+01
2.19967E+01	4.53323E+01
2.24967E+01	4.53323E+01
2.29967E+01	4.53323E+01
2.34967E+01	1.11445E-08
2.39967E+01	1.13808E-08
2.44967E+01	1.16171E-08
2.49967E+01	1.18534E-08
2.54967E+01	1.20897E-08
2.59967E+01	1.23259E-08
2.64967E+01	1.25622E-08
2.69967E+01	1.27985E-08
2.74967E+01	1.30348E-08
2.79967E+01	1.32711E-08
2.84967E+01	1.35073E-08
2.89967E+01	1.37436E-08
2.94967E+01	1.39799E-08
2.99967E+01	1.42162E-08
3.04967E+01	1.44525E-08
3.09967E+01	1.46887E-08
3.14967E+01	1.49250E-08
3.19967E+01	1.51613E-08
3.24967E+01	1.53976E-08
3.29967E+01	1.56339E-08
3.34967E+01	1.58701E-08
3.39967E+01	1.61064E-08
3.44967E+01	1.63427E-08
3.49967E+01	1.65790E-08
3.54967E+01	1.68153E-08
3.59967E+01	1.70515E-08
3.64967E+01	1.72878E-08
3.69967E+01	1.75241E-08
3.74967E+01	1.77604E-08
3.79967E+01	1.79967E-08
3.84967E+01	1.82329E-08
3.89967E+01	1.84692E-08
3.94967E+01	1.87055E-08
3.99967E+01	1.89418E-08
4.00800E+01	1.89812E-08

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 \* SOIL LAYERS AND STRENGTH DATA \*  
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X AT THE SURFACE OF EXCAVATION SIDE = 12.20 FT

4 LAYER(S) OF SOIL

LAYER 1

THE SOIL IS A SAND

LAYER 2

THE SOIL IS A STIFF CLAY WITHOUT FREE WATER

LAYER 3

THE SOIL IS A STIFF CLAY WITHOUT FREE WATER

LAYER 4

THE SOIL IS A STIFF CLAY WITHOUT FREE WATER

DISTRIBUTION OF EFFECTIVE UNIT WEIGHT WITH DEPTH  
8 POINTS

X, FT	WEIGHT, LBS/IN**3
12.2000	3.9231E-02
18.5800	3.9231E-02
18.5800	4.7912E-02
23.0800	4.7912E-02
23.0800	4.7912E-02
33.0800	4.7912E-02
33.0800	5.0806E-02
49.5800	5.0806E-02

DISTRIBUTION OF STRENGTH PARAMETERS WITH DEPTH  
8 POINTS

X, FT	C, LBS/IN**2	PHI, DEGREE	E50	KPY, LBS/IN**3
12.20	0.0000E+00	28.000	0.0000E+00	2.0000E+01
18.58	0.0000E+00	28.000	0.0000E+00	2.0000E+01
18.58	5.2083E+00	0.000	1.5000E-02	0.0000E+00
23.08	5.2083E+00	0.000	1.5000E-02	0.0000E+00
23.08	1.0417E+01	0.000	1.0000E-02	0.0000E+00
33.08	1.0417E+01	0.000	1.0000E-02	0.0000E+00
33.08	3.1250E+01	0.000	4.0000E-03	0.0000E+00
40.90	3.1250E+01	0.000	4.0000E-03	0.0000E+00

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	19.69	28.00	3.92E-02	2.00E+01	2.82	2.13	3.34E-01

Y IN	P LBS/IN
0.000	0.000
0.010	0.020
0.020	0.040
0.038	0.076
0.056	0.112
0.074	0.148
0.092	0.184
0.110	0.220
0.128	0.256
0.146	0.292
0.164	0.328
0.182	0.364
0.200	0.400
0.283	0.567
0.367	0.733
0.450	0.900
0.540	0.944

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
12.21	19.69	28.00	6.34E-02	2.00E+01	0.88	0.50	9.39E+02

Y IN	P LBS/IN
0.000	0.000
0.010	29.300
0.020	58.600
0.038	111.340
0.056	164.080
0.074	216.820
0.092	269.560
0.110	322.300
0.128	357.897
0.146	387.705



0.164	416.102
0.182	443.300
0.200	469.463
0.283	588.393
0.367	707.324
0.450	826.254
0.540	826.254

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
1.59	19.69	28.00	3.92E-02	2.00E+01	1.71	1.23	6.39E+01

Y IN	P LBS/IN
0.000	0.000
0.010	3.828
0.020	7.656
0.038	14.546
0.056	21.437
0.074	28.327
0.092	35.218
0.110	42.108
0.128	48.998
0.146	55.889
0.164	62.779
0.182	69.670
0.200	76.560
0.283	88.742
0.367	98.944
0.450	109.146
0.540	109.146

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
13.80	19.69	28.00	6.06E-02	2.00E+01	0.88	0.50	1.00E+03

Y IN	P LBS/IN
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0.000	0.000
0.010	33.108
0.020	66.216
0.038	125.810
0.056	185.405
0.074	244.999
0.092	304.594
0.110	348.507
0.128	382.145
0.146	413.972
0.164	444.294
0.182	473.335
0.200	501.269
0.283	628.258
0.367	755.246
0.450	882.234
0.540	882.234

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
3.19	19.69	28.00	3.92E-02	2.00E+01	1.03	0.68	1.28E+02

Y	P
IN	LBS/IN
0.000	0.000
0.010	7.656
0.020	15.312
0.038	29.093
0.056	42.874
0.074	56.654
0.092	62.435
0.110	67.287
0.128	71.696
0.146	75.758
0.164	79.538
0.182	83.084
0.200	86.432
0.283	101.515
0.367	116.598
0.450	131.681
0.540	131.681

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
15.39	19.69	28.00	5.84E-02	2.00E+01	0.88	0.50	1.07E+03

Y	P
IN	LBS/IN
0.000	0.000
0.010	36.936
0.020	73.872
0.038	140.357
0.056	206.842
0.074	273.326
0.092	332.569
0.110	370.737
0.128	406.521
0.146	440.378
0.164	472.633
0.182	503.527
0.200	533.243
0.283	668.331
0.367	803.420
0.450	938.508
0.540	938.508

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
4.79	19.69	28.00	3.92E-02	2.00E+01	0.88	0.51	1.92E+02

Y	P
IN	LBS/IN
0.000	0.000
0.012	13.591
0.024	27.183
0.041	37.897
0.059	46.855
0.077	54.778
0.094	61.991
0.112	68.676
0.129	74.947
0.147	80.882

0.165	86.536
0.182	91.951
0.200	97.159
0.283	121.321
0.367	145.484
0.450	169.647
0.540	169.647

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
16.98	19.69	28.00	5.66E-02	2.00E+01	0.88	0.50	1.13E+03

Y	P
IN	LBS/IN
0.000	0.000
0.010	40.764
0.020	81.528
0.038	154.903
0.056	228.278
0.074	301.654
0.092	352.510
0.110	392.967
0.128	430.896
0.146	466.784
0.164	500.973
0.182	533.719
0.200	565.217
0.283	708.405
0.367	851.594
0.450	994.782
0.540	994.782

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
6.37	19.69	28.00	3.92E-02	2.00E+01	0.88	0.50	2.55E+02

Y	P
IN	LBS/IN

0.000	0.000
0.011	16.485
0.022	32.971
0.039	47.572
0.057	59.701
0.075	70.408
0.093	80.153
0.111	89.185
0.129	97.663
0.146	105.690
0.164	113.341
0.182	120.673
0.200	127.728
0.283	160.086
0.367	192.444
0.450	224.802
0.540	224.802

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
18.57	19.69	28.00	5.51E-02	2.00E+01	0.88	0.50	1.19E+03

Y IN	P LBS/IN
0.000	0.000
0.010	44.572
0.020	89.144
0.038	169.374
0.056	249.603
0.074	326.181
0.092	372.347
0.110	415.080
0.128	455.144
0.146	493.051
0.164	529.164
0.182	563.753
0.200	597.024
0.283	748.270
0.367	899.516
0.450	1050.762
0.540	1050.762

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

AT THE EXCAVATION SIDE

DEPTH BELOW GS	DIAM	C	CAVG	GAMMA AVG	E50
FT	IN	LBS/IN**2	LBS/IN**2	LBS/IN**3	
6.39	19.690	5.21E+00	5.21E+00	3.92E-02	1.5000E-02

Y	P
IN	LBS/IN
0.00000	0.00000
0.00007	14.86485
0.00036	22.22814
0.00072	26.43386
0.00360	39.52785
0.00720	47.00680
0.03600	70.29156
0.07200	83.59122
0.18000	105.11039
0.36000	124.99803
0.54000	138.33306
0.72000	148.64855
1.80000	186.91565
3.60000	222.28142
7.20000	264.33865
8.10000	264.33865
9.00000	264.33865

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

AT THE BACKFILL SIDE

DEPTH BELOW GS	DIAM	C	CAVG	GAMMA AVG	E50
FT	IN	LBS/IN**2	LBS/IN**2	LBS/IN**3	
18.59	19.690	5.21E+00	5.21E+00	5.51E-02	1.5000E-02

Y	P
IN	LBS/IN
0.00000	0.00000
0.00007	27.06808
0.00036	40.47622
0.00072	48.13460
0.00360	71.97802
0.00720	85.59678
0.03600	127.99703
0.07200	152.21498
0.18000	191.40021
0.36000	227.61449

0.54000	251.89684
0.72000	270.68077
1.80000	340.36305
3.60000	404.76216
7.20000	481.34604
8.10000	481.34604
9.00000	481.34604

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

#### AT THE EXCAVATION SIDE

DEPTH BELOW GS FT	DIAM IN	C LBS/IN**2	CAVG LBS/IN**2	GAMMA AVG LBS/IN**3	E50
7.50	19.690	5.21E+00	5.21E+00	4.05E-02	1.5000E-02

Y IN	P LBS/IN
0.00000	0.00000
0.00007	15.57573
0.00036	23.29115
0.00072	27.69800
0.00360	41.41818
0.00720	49.25479
0.03600	73.65309
0.07200	87.58878
0.18000	110.13706
0.36000	130.97578
0.54000	144.94853
0.72000	155.75733
1.80000	195.85447
3.60000	232.91153
7.20000	276.98005
8.10000	276.98005
9.00000	276.98005

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

#### AT THE BACKFILL SIDE

DEPTH BELOW GS FT	DIAM IN	C LBS/IN**2	CAVG LBS/IN**2	GAMMA AVG LBS/IN**3	E50
19.71	19.690	5.21E+00	5.21E+00	5.47E-02	1.5000E-02

Y IN	P LBS/IN
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0.00000	0.00000
0.00007	27.77896
0.00036	41.53923
0.00072	49.39874
0.00360	73.86835
0.00720	87.84477
0.03600	131.35857
0.07200	156.21254
0.18000	196.42688
0.36000	233.59224
0.54000	258.51231
0.72000	277.78955
1.80000	349.30187
3.60000	415.39227
7.20000	493.98744
8.10000	493.98744
9.00000	493.98744

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

AT THE EXCAVATION SIDE

DEPTH BELOW GS	DIAM	C	CAVG	GAMMA AVG	E50
FT	IN	LBS/IN**2	LBS/IN**2	LBS/IN**3	
8.63	19.690	5.21E+00	5.21E+00	4.15E-02	1.5000E-02

Y	P
IN	LBS/IN
0.00000	0.00000
0.00007	16.29192
0.00036	24.36210
0.00072	28.97158
0.00360	43.32261
0.00720	51.51956
0.03600	77.03971
0.07200	91.61617
0.18000	115.20124
0.36000	136.99814
0.54000	151.61336
0.72000	162.91916
1.80000	204.86000
3.60000	243.62096
7.20000	289.71578
8.10000	289.71578
9.00000	289.71578

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



AT THE BACKFILL SIDE

DEPTH BELOW GS	DIAM	C	CAVG	GAMMA AVG	E50
FT	IN	LBS/IN**2	LBS/IN**2	LBS/IN**3	
20.83	19.690	5.21E+00	5.21E+00	5.43E-02	1.5000E-02

Y	P
IN	LBS/IN
0.00000	0.00000
0.00007	28.49514
0.00036	42.61017
0.00072	50.67232
0.00360	75.77279
0.00720	90.10954
0.03600	134.74519
0.07200	160.23994
0.18000	201.49106
0.36000	239.61460
0.54000	265.17715
0.72000	284.95139
1.80000	358.30740
3.60000	426.10171
7.20000	506.72318
8.10000	506.72318
9.00000	506.72318

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

AT THE EXCAVATION SIDE

DEPTH BELOW GS	DIAM	C	CAVG	GAMMA AVG	E50
FT	IN	LBS/IN**2	LBS/IN**2	LBS/IN**3	
9.75	19.690	5.21E+00	5.21E+00	4.22E-02	1.5000E-02

Y	P
IN	LBS/IN
0.00000	0.00000
0.00007	17.00810
0.00036	25.43304
0.00072	30.24515
0.00360	45.22705
0.00720	53.78433
0.03600	80.42633
0.07200	95.64357
0.18000	120.26542
0.36000	143.02050

0.54000	158.27820
0.72000	170.08099
1.80000	213.86552
3.60000	254.33040
7.20000	302.45152
8.10000	302.45152
9.00000	302.45152

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

AT THE BACKFILL SIDE

DEPTH BELOW GS FT	DIAM IN	C LBS/IN**2	CAVG LBS/IN**2	GAMMA AVG LBS/IN**3	E50
21.96	19.690	5.21E+00	5.21E+00	5.40E-02	1.5000E-02

Y IN	P LBS/IN
0.00000	0.00000
0.00007	29.21132
0.00036	43.68111
0.00072	51.94589
0.00360	77.67723
0.00720	92.37431
0.03600	138.13181
0.07200	164.26733
0.18000	206.55524
0.36000	245.63696
0.54000	271.84198
0.72000	292.11322
1.80000	367.31292
3.60000	436.81114
7.20000	519.45892
8.10000	519.45892
9.00000	519.45892

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

AT THE EXCAVATION SIDE

DEPTH BELOW GS FT	DIAM IN	C LBS/IN**2	CAVG LBS/IN**2	GAMMA AVG LBS/IN**3	E50
10.87	19.690	5.21E+00	5.21E+00	4.28E-02	1.5000E-02

Y IN	P LBS/IN
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0.00000	0.00000
0.00007	17.71898
0.00036	26.49605
0.00072	31.50929
0.00360	47.11738
0.00720	56.03233
0.03600	83.78787
0.07200	99.64113
0.18000	125.29209
0.36000	148.99824
0.54000	164.89366
0.72000	177.18977
1.80000	222.80434
3.60000	264.96051
7.20000	315.09292
8.10000	315.09292
9.00000	315.09292

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

AT THE BACKFILL SIDE

DEPTH BELOW GS FT	DIAM IN	C LBS/IN**2	CAVG LBS/IN**2	GAMMA AVG LBS/IN**3	E50
23.07	19.690	5.21E+00	5.21E+00	5.37E-02	1.5000E-02

Y IN	P LBS/IN
0.00000	0.00000
0.00007	29.92220
0.00036	44.74412
0.00072	53.21003
0.00360	79.56756
0.00720	94.62231
0.03600	141.49335
0.07200	168.26489
0.18000	211.58190
0.36000	251.61471
0.54000	278.45745
0.72000	299.22200
1.80000	376.25174
3.60000	447.44125
7.20000	532.10032
8.10000	532.10032
9.00000	532.10032

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

AT THE EXCAVATION SIDE

DEPTH BELOW GS FT	DIAM IN	C LBS/IN**2	CAVG LBS/IN**2	GAMMA AVG LBS/IN**3	E50
10.89	19.690	1.04E+01	1.04E+01	4.28E-02	1.0000E-02
	Y IN		P LBS/IN		
	0.00000		0.00000		
	0.00005		29.26344		
	0.00024		43.75905		
	0.00048		52.03858		
	0.00240		77.81583		
	0.00480		92.53913		
	0.02400		138.37828		
	0.04800		164.56043		
	0.12000		206.92379		
	0.24000		246.07524		
	0.36000		272.32702		
	0.48000		292.63443		
	1.20000		367.96831		
	2.40000		437.59054		
	4.80000		520.38578		
	5.40000		520.38578		
	6.00000		520.38578		

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

AT THE BACKFILL SIDE

DEPTH BELOW GS FT	DIAM IN	C LBS/IN**2	CAVG LBS/IN**2	GAMMA AVG LBS/IN**3	E50
23.09	19.690	1.04E+01	1.04E+01	5.37E-02	1.0000E-02
	Y IN		P LBS/IN		
	0.00000		0.00000		
	0.00005		41.46667		
	0.00024		62.00713		
	0.00048		73.73932		
	0.00240		110.26600		
	0.00480		131.12911		
	0.02400		196.08375		
	0.04800		233.18420		
	0.12000		293.21361		
	0.24000		348.69171		

0.36000	385.89081
0.48000	414.66666
1.20000	521.41572
2.40000	620.07128
4.80000	737.39318
5.40000	737.39318
6.00000	737.39318

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

AT THE EXCAVATION SIDE

DEPTH BELOW GS FT	DIAM IN	C LBS/IN**2	CAVG LBS/IN**2	GAMMA AVG LBS/IN**3	E50
13.38	19.690	1.04E+01	1.04E+01	4.38E-02	1.0000E-02

Y IN	P LBS/IN
0.00000	0.00000
0.00005	30.84966
0.00024	46.13100
0.00048	54.85931
0.00240	82.03380
0.00480	97.55518
0.02400	145.87902
0.04800	173.48036
0.12000	218.14001
0.24000	259.41365
0.36000	287.08840
0.48000	308.49656
1.20000	387.91389
2.40000	461.30996
4.80000	548.59308
5.40000	548.59308
6.00000	548.59308

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

AT THE BACKFILL SIDE

DEPTH BELOW GS FT	DIAM IN	C LBS/IN**2	CAVG LBS/IN**2	GAMMA AVG LBS/IN**3	E50
25.58	19.690	1.04E+01	1.04E+01	5.31E-02	1.0000E-02

Y IN	P LBS/IN
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0.00000	0.00000
0.00005	43.05288
0.00024	64.37907
0.00048	76.56005
0.00240	114.48398
0.00480	136.14516
0.02400	203.58449
0.04800	242.10413
0.12000	304.42983
0.24000	362.03012
0.36000	400.65219
0.48000	430.52879
1.20000	541.36129
2.40000	643.79070
4.80000	765.60048
5.40000	765.60048
6.00000	765.60048

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

AT THE EXCAVATION SIDE

DEPTH BELOW GS	DIAM	C	CAVG	GAMMA AVG	E50
FT	IN	LBS/IN**2	LBS/IN**2	LBS/IN**3	
15.88	19.690	1.04E+01	1.04E+01	4.44E-02	1.0000E-02

Y		P	
IN		LBS/IN	
0.00000		0.00000	
0.00005		32.44117	
0.00024		48.51087	
0.00048		57.68947	
0.00240		86.26588	
0.00480		102.58800	
0.02400		153.40484	
0.04800		182.43013	
0.12000		229.39374	
0.24000		272.79667	
0.36000		301.89915	
0.48000		324.41175	
1.20000		407.92617	
2.40000		485.10871	
4.80000		576.89472	
5.40000		576.89472	
6.00000		576.89472	

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

AT THE BACKFILL SIDE

DEPTH BELOW GS	DIAM	C	CAVG	GAMMA AVG	E50
FT	IN	LBS/IN**2	LBS/IN**2	LBS/IN**3	
28.08	19.690	1.04E+01	1.04E+01	5.27E-02	1.0000E-02

Y	P
IN	LBS/IN
0.00000	0.00000
0.00005	44.64440
0.00024	66.75894
0.00048	79.39021
0.00240	118.71606
0.00480	141.17798
0.02400	211.11032
0.04800	251.05389
0.12000	315.68356
0.24000	375.41314
0.36000	415.46293
0.48000	446.44397
1.20000	561.37357
2.40000	667.58945
4.80000	793.90212
5.40000	793.90212
6.00000	793.90212

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

AT THE EXCAVATION SIDE

DEPTH BELOW GS	DIAM	C	CAVG	GAMMA AVG	E50
FT	IN	LBS/IN**2	LBS/IN**2	LBS/IN**3	
18.38	19.690	1.04E+01	1.04E+01	4.49E-02	1.0000E-02

Y	P
IN	LBS/IN
0.00000	0.00000
0.00005	34.03269
0.00024	50.89075
0.00048	60.51964
0.00240	90.49797
0.00480	107.62082
0.02400	160.93067
0.04800	191.37989
0.12000	240.64748
0.24000	286.17969

0.36000	316.70989
0.48000	340.32693
1.20000	427.93845
2.40000	508.90745
4.80000	605.19637
5.40000	605.19637
6.00000	605.19637

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

AT THE BACKFILL SIDE

DEPTH BELOW GS FT	DIAM IN	C LBS/IN**2	CAVG LBS/IN**2	GAMMA AVG LBS/IN**3	E50
30.58	19.690	1.04E+01	1.04E+01	5.23E-02	1.0000E-02

Y IN	P LBS/IN
0.00000	0.00000
0.00005	46.23591
0.00024	69.13882
0.00048	82.22038
0.00240	122.94814
0.00480	146.21080
0.02400	218.63614
0.04800	260.00366
0.12000	326.93729
0.24000	388.79616
0.36000	430.27368
0.48000	462.35915
1.20000	581.38586
2.40000	691.38820
4.80000	822.20376
5.40000	822.20376
6.00000	822.20376

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

AT THE EXCAVATION SIDE

DEPTH BELOW GS FT	DIAM IN	C LBS/IN**2	CAVG LBS/IN**2	GAMMA AVG LBS/IN**3	E50
20.87	19.690	1.04E+01	1.04E+01	4.53E-02	1.0000E-02

Y IN	P LBS/IN
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0.00000	0.00000
0.00005	35.61891
0.00024	53.26269
0.00048	63.34037
0.00240	94.71594
0.00480	112.63687
0.02400	168.43141
0.04800	200.29983
0.12000	251.86370
0.24000	299.51810
0.36000	331.47127
0.48000	356.18906
1.20000	447.88403
2.40000	532.62687
4.80000	633.40367
5.40000	633.40367
6.00000	633.40367

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

AT THE BACKFILL SIDE

DEPTH BELOW GS	DIAM	C	CAVG	GAMMA AVG	E50
FT	IN	LBS/IN**2	LBS/IN**2	LBS/IN**3	
33.07	19.690	1.04E+01	1.04E+01	5.20E-02	1.0000E-02

Y		P	
IN		LBS/IN	
0.00000	0.00000	0.00000	0.00000
0.00005	47.82213	47.82213	47.82213
0.00024	71.51076	71.51076	71.51076
0.00048	85.04111	85.04111	85.04111
0.00240	127.16612	127.16612	127.16612
0.00480	151.22685	151.22685	151.22685
0.02400	226.13688	226.13688	226.13688
0.04800	268.92359	268.92359	268.92359
0.12000	338.15351	338.15351	338.15351
0.24000	402.13457	402.13457	402.13457
0.36000	445.03506	445.03506	445.03506
0.48000	478.22129	478.22129	478.22129
1.20000	601.33143	601.33143	601.33143
2.40000	715.10762	715.10762	715.10762
4.80000	850.41106	850.41106	850.41106
5.40000	850.41106	850.41106	850.41106
6.00000	850.41106	850.41106	850.41106

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

AT THE EXCAVATION SIDE

DEPTH BELOW GS	DIAM	C	CAVG	GAMMA AVG	E50
FT	IN	LBS/IN**2	LBS/IN**2	LBS/IN**3	
20.89	19.690	3.12E+01	3.12E+01	4.53E-02	4.0000E-03

Y	P
IN	LBS/IN
0.00000	0.00000
0.00002	81.76525
0.00010	122.26757
0.00019	145.40147
0.00096	217.42591
0.00192	258.56444
0.00960	386.64402
0.01920	459.79982
0.04800	578.16767
0.09600	687.56110
0.14400	760.91144
0.19200	817.65255
0.48000	1028.14365
0.96000	1222.67575
1.92000	1454.01470
2.16000	1454.01470
2.40000	1454.01470

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

AT THE BACKFILL SIDE

DEPTH BELOW GS	DIAM	C	CAVG	GAMMA AVG	E50
FT	IN	LBS/IN**2	LBS/IN**2	LBS/IN**3	
33.09	19.690	3.12E+01	3.12E+01	5.20E-02	4.0000E-03

Y	P
IN	LBS/IN
0.00000	0.00000
0.00002	93.96848
0.00010	140.51565
0.00019	167.10221
0.00096	249.87609
0.00192	297.15442
0.00960	444.34949
0.01920	528.42358
0.04800	664.45748
0.09600	790.17756

0.14400	874.47523
0.19200	939.68478
0.48000	1181.59105
0.96000	1405.15649
1.92000	1671.02209
2.16000	1671.02209
2.40000	1671.02209

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

AT THE EXCAVATION SIDE

DEPTH BELOW GS FT	DIAM IN	C LBS/IN**2	CAVG LBS/IN**2	GAMMA AVG LBS/IN**3	E50
22.84	19.690	3.12E+01	3.12E+01	4.57E-02	4.0000E-03

Y IN	P LBS/IN
0.00000	0.00000
0.00002	83.07970
0.00010	124.23312
0.00019	147.73891
0.00096	220.92121
0.00192	262.72107
0.00960	392.85963
0.01920	467.19147
0.04800	587.46217
0.09600	698.61419
0.14400	773.14370
0.19200	830.79697
0.48000	1044.67188
0.96000	1242.33123
1.92000	1477.38914
2.16000	1477.38914
2.40000	1477.38914

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

AT THE BACKFILL SIDE

DEPTH BELOW GS FT	DIAM IN	C LBS/IN**2	CAVG LBS/IN**2	GAMMA AVG LBS/IN**3	E50
35.04	19.690	3.12E+01	3.12E+01	5.19E-02	4.0000E-03

Y IN	P LBS/IN
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0.00000	0.00000
0.00002	95.28292
0.00010	142.48120
0.00019	169.43965
0.00096	253.37138
0.00192	301.31105
0.00960	450.56511
0.01920	535.81523
0.04800	673.75199
0.09600	801.23066
0.14400	886.70749
0.19200	952.82920
0.48000	1198.11928
0.96000	1424.81197
1.92000	1694.39654
2.16000	1694.39654
2.40000	1694.39654

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

AT THE EXCAVATION SIDE

DEPTH BELOW GS	DIAM	C	CAVG	GAMMA AVG	E50
FT	IN	LBS/IN**2	LBS/IN**2	LBS/IN**3	
24.79	19.690	3.12E+01	3.12E+01	4.61E-02	4.0000E-03

Y	P
IN	LBS/IN
0.00000	0.00000
0.00002	84.39976
0.00010	126.20708
0.00019	150.08636
0.00096	224.43146
0.00192	266.89549
0.00960	399.10184
0.01920	474.61475
0.04800	596.79646
0.09600	709.71459
0.14400	785.42831
0.19200	843.99764
0.48000	1061.27085
0.96000	1262.07084
1.92000	1500.86362
2.16000	1500.86362
2.40000	1500.86362

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

AT THE BACKFILL SIDE

DEPTH BELOW GS FT	DIAM IN	C LBS/IN**2	CAVG LBS/IN**2	GAMMA AVG LBS/IN**3	E50
36.99	19.690	3.12E+01	3.12E+01	5.18E-02	4.0000E-03

Y IN	P LBS/IN
0.00000	0.00000
0.00002	96.60299
0.00010	144.45516
0.00019	171.78710
0.00096	256.88164
0.00192	305.48547
0.00960	456.80732
0.01920	543.23851
0.04800	683.08627
0.09600	812.33105
0.14400	898.99210
0.19200	966.02987
0.48000	1214.71825
0.96000	1444.55158
1.92000	1717.87102
2.16000	1717.87102
2.40000	1717.87102

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

AT THE EXCAVATION SIDE

DEPTH BELOW GS FT	DIAM IN	C LBS/IN**2	CAVG LBS/IN**2	GAMMA AVG LBS/IN**3	E50
26.75	19.690	3.12E+01	3.12E+01	4.65E-02	4.0000E-03

Y IN	P LBS/IN
0.00000	0.00000
0.00002	85.71983
0.00010	128.18104
0.00019	152.43381
0.00096	227.94172
0.00192	271.06991
0.00960	405.34405
0.01920	482.03803
0.04800	606.13074
0.09600	720.81499

0.14400	797.71292
0.19200	857.19831
0.48000	1077.86981
0.96000	1281.81045
1.92000	1524.33810
2.16000	1524.33810
2.40000	1524.33810

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

AT THE BACKFILL SIDE

DEPTH BELOW GS FT	DIAM IN	C LBS/IN**2	CAVG LBS/IN**2	GAMMA AVG LBS/IN**3	E50
38.95	19.690	3.12E+01	3.12E+01	5.18E-02	4.0000E-03

Y IN	P LBS/IN
0.00000	0.00000
0.00002	97.92305
0.00010	146.42912
0.00019	174.13455
0.00096	260.39189
0.00192	309.65989
0.00960	463.04953
0.01920	550.66179
0.04800	692.42056
0.09600	823.43145
0.14400	911.27670
0.19200	979.23054
0.48000	1231.31721
0.96000	1464.29119
1.92000	1741.34550
2.16000	1741.34550
2.40000	1741.34550

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

AT THE EXCAVATION SIDE

DEPTH BELOW GS FT	DIAM IN	C LBS/IN**2	CAVG LBS/IN**2	GAMMA AVG LBS/IN**3	E50
28.69	19.690	3.12E+01	3.12E+01	4.68E-02	4.0000E-03

Y IN	P LBS/IN
---------	-------------

0.00000	0.00000
0.00002	87.03427
0.00010	130.14659
0.00019	154.77125
0.00096	231.43701
0.00192	275.22654
0.00960	411.55966
0.01920	489.42968
0.04800	615.42525
0.09600	731.86808
0.14400	809.94518
0.19200	870.34273
0.48000	1094.39804
0.96000	1301.46593
1.92000	1547.71255
2.16000	1547.71255
2.40000	1547.71255

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

AT THE BACKFILL SIDE

DEPTH BELOW GS FT	DIAM IN	C LBS/IN**2	CAVG LBS/IN**2	GAMMA AVG LBS/IN**3	E50
40.89	19.690	3.12E+01	3.12E+01	5.17E-02	4.0000E-03

Y IN	P LBS/IN
0.00000	0.00000
0.00002	99.23749
0.00010	148.39467
0.00019	176.47199
0.00096	263.88719
0.00192	313.81652
0.00960	469.26514
0.01920	558.05344
0.04800	701.71506
0.09600	834.48454
0.14400	923.50896
0.19200	992.37496
0.48000	1247.84544
0.96000	1483.94668
1.92000	1764.71995
2.16000	1764.71995
2.40000	1764.71995

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

New Wall

RESULTS

NUMBER OF ITERATIONS : 11

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

STA I	X	DEFL.	SLOPE	MOMENT	SHEAR	SOIL_REACT
NET_FORCE/STA	EI					
LBS	FT	IN	RAD	LBS-IN	LBS	LBS/IN
LBS	LBS-IN**2					
-----	-----	----	-----	-----	-----	-----
0	0.000E+00	3.170E+00	-1.207E-02	0.000E+00	0.000E+00	0.000E+00
0.000E+00	2.336E+10					
1	4.010E-01	3.112E+00	-1.207E-02	0.000E+00	4.158E+01	0.000E+00
8.317E+01	2.336E+10					
2	8.020E-01	3.054E+00	-1.207E-02	4.002E+02	1.317E+02	0.000E+00
9.697E+01	2.336E+10					
3	1.203E+00	2.996E+00	-1.207E-02	1.267E+03	2.355E+02	0.000E+00
1.108E+02	2.336E+10					
4	1.604E+00	2.938E+00	-1.207E-02	2.667E+03	3.532E+02	0.000E+00
1.246E+02	2.336E+10					
5	2.005E+00	2.880E+00	-1.207E-02	4.666E+03	4.846E+02	0.000E+00
1.384E+02	2.336E+10					
6	2.406E+00	2.822E+00	-1.206E-02	7.331E+03	6.299E+02	0.000E+00
1.522E+02	2.336E+10					
7	2.807E+00	2.764E+00	-1.206E-02	1.073E+04	7.890E+02	0.000E+00
1.660E+02	2.336E+10					
8	3.208E+00	2.706E+00	-1.206E-02	1.492E+04	9.618E+02	0.000E+00
1.798E+02	2.336E+10					
9	3.609E+00	2.648E+00	-1.206E-02	1.998E+04	1.148E+03	0.000E+00
1.936E+02	2.336E+10					
10	4.010E+00	2.590E+00	-1.205E-02	2.598E+04	1.349E+03	0.000E+00
2.073E+02	2.336E+10					
11	4.411E+00	2.532E+00	-1.205E-02	3.297E+04	1.563E+03	0.000E+00
2.211E+02	2.336E+10					
12	4.812E+00	2.474E+00	-1.204E-02	4.102E+04	1.791E+03	0.000E+00
2.349E+02	2.336E+10					
13	5.213E+00	2.416E+00	-1.203E-02	5.021E+04	2.033E+03	0.000E+00
2.487E+02	2.336E+10					
14	5.614E+00	2.358E+00	-1.202E-02	6.059E+04	2.289E+03	0.000E+00
2.625E+02	2.336E+10					
15	6.015E+00	2.300E+00	-1.200E-02	7.223E+04	2.558E+03	0.000E+00
2.763E+02	2.336E+10					
16	6.416E+00	2.243E+00	-1.199E-02	8.521E+04	2.841E+03	0.000E+00
2.901E+02	2.336E+10					
17	6.817E+00	2.185E+00	-1.197E-02	9.958E+04	3.138E+03	0.000E+00



3.039E+02	2.336E+10					
18	7.218E+00	2.127E+00	-1.195E-02	1.154E+05	3.449E+03	0.000E+00
3.177E+02	2.336E+10					
19	7.619E+00	2.070E+00	-1.192E-02	1.328E+05	3.774E+03	0.000E+00
3.315E+02	2.336E+10					
20	8.020E+00	2.013E+00	-1.189E-02	1.517E+05	4.112E+03	0.000E+00
3.453E+02	2.336E+10					
21	8.421E+00	1.955E+00	-1.186E-02	1.723E+05	4.467E+03	0.000E+00
3.635E+02	2.336E+10					
22	8.822E+00	1.899E+00	-1.182E-02	1.947E+05	4.843E+03	0.000E+00
3.892E+02	2.336E+10					
23	9.223E+00	1.842E+00	-1.178E-02	2.190E+05	5.245E+03	0.000E+00
4.148E+02	2.336E+10					
24	9.624E+00	1.785E+00	-1.173E-02	2.452E+05	5.673E+03	0.000E+00
4.404E+02	2.336E+10					
25	1.003E+01	1.729E+00	-1.168E-02	2.736E+05	6.126E+03	0.000E+00
4.661E+02	2.336E+10					
26	1.043E+01	1.673E+00	-1.162E-02	3.042E+05	6.605E+03	0.000E+00
4.917E+02	2.336E+10					
27	1.083E+01	1.617E+00	-1.155E-02	3.371E+05	7.109E+03	0.000E+00
5.173E+02	2.336E+10					
28	1.123E+01	1.562E+00	-1.148E-02	3.726E+05	7.639E+03	0.000E+00
5.429E+02	2.336E+10					
29	1.163E+01	1.507E+00	-1.140E-02	4.106E+05	8.194E+03	0.000E+00
5.672E+02	2.336E+10					
30	1.203E+01	1.452E+00	-1.131E-02	4.514E+05	8.772E+03	-6.927E-01
5.878E+02	2.336E+10					
31	1.243E+01	1.398E+00	-1.121E-02	4.951E+05	9.267E+03	-2.829E+01
4.017E+02	2.336E+10					
32	1.283E+01	1.344E+00	-1.110E-02	5.406E+05	9.604E+03	-5.522E+01
2.722E+02	2.336E+10					
33	1.323E+01	1.291E+00	-1.099E-02	5.875E+05	9.811E+03	-8.215E+01
1.426E+02	2.336E+10					
34	1.363E+01	1.238E+00	-1.086E-02	6.350E+05	9.889E+03	-1.091E+02
1.288E+01	2.336E+10					
35	1.404E+01	1.186E+00	-1.073E-02	6.827E+05	9.888E+03	-1.148E+02
-1.431E+01	2.336E+10					
36	1.444E+01	1.135E+00	-1.058E-02	7.302E+05	9.860E+03	-1.204E+02
-4.150E+01	2.336E+10					
37	1.484E+01	1.085E+00	-1.043E-02	7.776E+05	9.805E+03	-1.260E+02
-6.869E+01	2.336E+10					
38	1.524E+01	1.035E+00	-1.026E-02	8.246E+05	9.723E+03	-1.317E+02
-9.587E+01	2.336E+10					
39	1.564E+01	9.858E-01	-1.009E-02	8.711E+05	9.604E+03	-1.412E+02
-1.415E+02	2.336E+10					
40	1.604E+01	9.377E-01	-9.902E-03	9.170E+05	9.440E+03	-1.507E+02
-1.871E+02	2.336E+10					
41	1.644E+01	8.905E-01	-9.708E-03	9.620E+05	9.230E+03	-1.601E+02
-2.327E+02	2.336E+10					
42	1.684E+01	8.442E-01	-9.505E-03	1.006E+06	8.974E+03	-1.696E+02

-2.782E+02	2.336E+10					
43	1.724E+01	7.990E-01	-9.294E-03	1.048E+06	8.663E+03	-1.834E+02
-3.447E+02	2.336E+10					
44	1.764E+01	7.548E-01	-9.073E-03	1.089E+06	8.285E+03	-1.972E+02
-4.111E+02	2.336E+10					
45	1.805E+01	7.117E-01	-8.845E-03	1.128E+06	7.841E+03	-2.110E+02
-4.775E+02	2.336E+10					
46	1.845E+01	6.697E-01	-8.609E-03	1.165E+06	7.330E+03	-2.248E+02
-5.439E+02	2.336E+10					
47	1.885E+01	6.288E-01	-8.365E-03	1.199E+06	6.686E+03	-2.000E+02
-7.441E+02	2.336E+10					
48	1.925E+01	5.892E-01	-8.115E-03	1.229E+06	6.006E+03	-1.735E+02
-6.168E+02	2.336E+10					
49	1.965E+01	5.507E-01	-7.859E-03	1.256E+06	5.456E+03	-1.455E+02
-4.822E+02	2.336E+10					
50	2.005E+01	5.135E-01	-7.598E-03	1.282E+06	4.975E+03	-1.451E+02
-4.799E+02	2.336E+10					
51	2.045E+01	4.776E-01	-7.332E-03	1.304E+06	4.497E+03	-1.444E+02
-4.766E+02	2.336E+10					
52	2.085E+01	4.430E-01	-7.061E-03	1.325E+06	4.022E+03	-1.437E+02
-4.735E+02	2.336E+10					
53	2.125E+01	4.096E-01	-6.786E-03	1.343E+06	3.550E+03	-1.431E+02
-4.704E+02	2.336E+10					
54	2.165E+01	3.777E-01	-6.508E-03	1.359E+06	3.081E+03	-1.425E+02
-4.675E+02	2.336E+10					
55	2.206E+01	3.470E-01	-6.226E-03	1.373E+06	2.616E+03	-1.414E+02
-4.621E+02	2.336E+10					
56	2.246E+01	3.177E-01	-5.942E-03	1.384E+06	2.158E+03	-1.396E+02
-4.536E+02	2.336E+10					
57	2.286E+01	2.898E-01	-5.656E-03	1.393E+06	1.709E+03	-1.379E+02
-4.454E+02	2.336E+10					
58	2.326E+01	2.633E-01	-5.368E-03	1.401E+06	1.158E+03	-1.363E+02
-6.557E+02	2.336E+10					
59	2.366E+01	2.382E-01	-5.079E-03	1.405E+06	4.601E+02	-1.539E+02
-7.407E+02	2.336E+10					
60	2.406E+01	2.144E-01	-4.790E-03	1.405E+06	-3.194E+02	-1.701E+02
-8.185E+02	2.336E+10					
61	2.446E+01	1.921E-01	-4.501E-03	1.402E+06	-1.174E+03	-1.849E+02
-8.897E+02	2.336E+10					
62	2.486E+01	1.711E-01	-4.213E-03	1.394E+06	-2.095E+03	-1.982E+02
-9.537E+02	2.336E+10					
63	2.526E+01	1.515E-01	-3.927E-03	1.381E+06	-3.079E+03	-2.105E+02
-1.013E+03	2.336E+10					
64	2.566E+01	1.333E-01	-3.644E-03	1.364E+06	-4.121E+03	-2.227E+02
-1.072E+03	2.336E+10					
65	2.607E+01	1.165E-01	-3.365E-03	1.342E+06	-5.181E+03	-2.178E+02
-1.048E+03	2.336E+10					
66	2.647E+01	1.009E-01	-3.092E-03	1.314E+06	-6.210E+03	-2.098E+02
-1.010E+03	2.336E+10					
67	2.687E+01	8.670E-02	-2.824E-03	1.282E+06	-7.202E+03	-2.026E+02

-9.747E+02	2.336E+10					
68	2.727E+01	7.374E-02	-2.564E-03	1.245E+06	-8.161E+03	-1.960E+02
-9.429E+02	2.336E+10					
69	2.767E+01	6.202E-02	-2.312E-03	1.203E+06	-9.089E+03	-1.900E+02
-9.142E+02	2.336E+10					
70	2.807E+01	5.149E-02	-2.069E-03	1.157E+06	-9.991E+03	-1.847E+02
-8.887E+02	2.336E+10					
71	2.847E+01	4.211E-02	-1.835E-03	1.107E+06	-1.086E+04	-1.767E+02
-8.504E+02	2.336E+10					
72	2.887E+01	3.383E-02	-1.613E-03	1.053E+06	-1.169E+04	-1.680E+02
-8.083E+02	2.336E+10					
73	2.927E+01	2.659E-02	-1.402E-03	9.947E+05	-1.248E+04	-1.604E+02
-7.717E+02	2.336E+10					
74	2.967E+01	2.034E-02	-1.203E-03	9.328E+05	-1.322E+04	-1.484E+02
-7.141E+02	2.336E+10					
75	3.008E+01	1.501E-02	-1.018E-03	8.675E+05	-1.390E+04	-1.349E+02
-6.491E+02	2.336E+10					
76	3.048E+01	1.054E-02	-8.463E-04	7.990E+05	-1.453E+04	-1.235E+02
-5.945E+02	2.336E+10					
77	3.088E+01	6.864E-03	-6.890E-04	7.277E+05	-1.510E+04	-1.142E+02
-5.496E+02	2.336E+10					
78	3.128E+01	3.909E-03	-5.467E-04	6.537E+05	-1.562E+04	-1.028E+02
-4.948E+02	2.336E+10					
79	3.168E+01	1.603E-03	-4.199E-04	5.774E+05	-1.606E+04	-7.987E+01
-3.843E+02	2.336E+10					
80	3.208E+01	-1.316E-04	-3.090E-04	4.992E+05	-1.611E+04	5.749E+01
2.767E+02	2.336E+10					
81	3.248E+01	-1.371E-03	-2.141E-04	4.223E+05	-1.572E+04	1.040E+02
5.005E+02	2.336E+10					
82	3.288E+01	-2.192E-03	-1.347E-04	3.478E+05	-1.518E+04	1.226E+02
5.901E+02	2.336E+10					
83	3.328E+01	-2.668E-03	-7.046E-05	2.762E+05	-1.413E+04	3.115E+02
1.499E+03	2.336E+10					
84	3.368E+01	-2.870E-03	-2.019E-05	2.118E+05	-1.262E+04	3.165E+02
1.523E+03	2.336E+10					
85	3.409E+01	-2.862E-03	1.756E-05	1.547E+05	-1.110E+04	3.174E+02
1.527E+03	2.336E+10					
86	3.449E+01	-2.701E-03	4.431E-05	1.050E+05	-9.576E+03	3.154E+02
1.518E+03	2.336E+10					
87	3.489E+01	-2.436E-03	6.157E-05	6.255E+04	-8.068E+03	3.113E+02
1.498E+03	2.336E+10					
88	3.529E+01	-2.108E-03	7.083E-05	2.733E+04	-6.583E+03	3.058E+02
1.472E+03	2.336E+10					
89	3.569E+01	-1.754E-03	7.356E-05	-8.104E+02	-5.139E+03	2.946E+02
1.418E+03	2.336E+10					
90	3.609E+01	-1.400E-03	7.120E-05	-2.213E+04	-3.762E+03	2.777E+02
1.336E+03	2.336E+10					
91	3.649E+01	-1.069E-03	6.511E-05	-3.701E+04	-2.464E+03	2.617E+02
1.259E+03	2.336E+10					
92	3.689E+01	-7.737E-04	5.657E-05	-4.584E+04	-1.266E+03	2.363E+02

1.137E+03	2.336E+10					
93	3.729E+01	-5.242E-04	4.678E-05	-4.920E+04	-1.942E+02	2.092E+02
1.007E+03	2.336E+10					
94	3.769E+01	-3.235E-04	3.680E-05	-4.771E+04	7.599E+02	1.874E+02
9.016E+02	2.336E+10					
95	3.810E+01	-1.701E-04	2.757E-05	-4.188E+04	1.612E+03	1.669E+02
8.031E+02	2.336E+10					
96	3.850E+01	-5.818E-05	1.994E-05	-3.219E+04	2.308E+03	1.222E+02
5.880E+02	2.336E+10					
97	3.890E+01	2.181E-05	1.460E-05	-1.967E+04	2.287E+03	-1.307E+02
-6.292E+02	2.336E+10					
98	3.930E+01	8.230E-05	1.152E-05	-1.018E+04	1.682E+03	-1.210E+02
-5.822E+02	2.336E+10					
99	3.970E+01	1.327E-04	1.011E-05	-3.489E+03	1.058E+03	-1.383E+02
-6.654E+02	2.336E+10					
100	4.010E+01	1.796E-04	9.754E-06	5.468E-11	3.625E+02	-1.507E+02
-7.251E+02	2.336E+10					

END OF ANALYSIS