

=====

PYWALL Version 2025.8.7

License ID : 500128014
License Type : (Network License)

A Program for the Analysis of
Flexible Retaining Walls
© 1985-2024 by Ensoft, Inc.
All Rights Reserved

This software is licensed for exclusive use by:
Burgess & Niple, Ltd.
Cincinnati, OH, USA

=====

This model was prepared by:
Burgess and Niple

Path to file locations : P:\PR61865\120103\400-Engineering\Structures\Bridge\Stage 2\Temporary
Sheeting\Forward Abutment\PYWall\
Name of input data file : Forward Abut Max Height - B-006-0-23.py8d
Name of output file : Forward Abut Max Height - B-006-0-23.py8o
Name of plot output file : Forward Abut Max Height - B-006-0-23.py8p

Time and Date of Analysis

Date: July 29, 2026 Time: 12:37:28

Hiiliard Cemetery Forward Abutment, Boring B-006-0-23

* PROGRAM CONTROL PARAMETERS *

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

TOTAL WALL LENGTH = 27.000 FT
NUMBER OF INCREMENTS = 100
INCREMENT LENGTH = 3.240 IN
MAXIMUM ALLOWABLE DEFLECTION = 100.000 IN
DEFLECTION CLOSURE TOLERANCE = 1.000E-05 IN
MAXIMUM NUMBER OF ITERATIONS = 100

* SECTION PROPERTIES *

* WALL SECTIONS *

SECT	TOP FT	BOTTOM FT	SECTION
1	0.00000	27.0000	1

* CROSS SECTIONS *

CROSS SECTION : 1
 SECTION NAME : PZ
 TYPE : ELASTIC
 CROSS SECTION TYPE : SHEET PILING
 SOURCE : USS
 SECTION NAME : 1
 WIDTH : 22.0000 IN
 DEPTH : 9.00000 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	22.0000	154.700

 * 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		4.486E+09	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
100	0		4.486E+09	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

* WALL INFORMATION *

FREE HEIGHT OF WALL = 1.200E+01 FT
WIDTH FOR EARTH PRESSURE, WA = 2.200E+01 IN
WIDTH FOR SOIL RESISTANCE, WP = 2.200E+01 IN
DEPTH TO THE WATER TABLE AT BACKFILL = 1.200E+01 FT
DEPTH TO THE WATER TABLE AT EXCAVATION = 1.200E+01 FT
UNIT WEIGHT OF WATER = 3.600E-02 LBS/IN**3
SLOPE OF THE BACKFILL (deg.) = 1.900E+01
SLOPE OF THE EXCAVATION GROUND (deg.) = 0.000E+00
MODIFICATION FOR ACTIVE EARTH PRESSURE = 1.000E+00

CONTINUOUS WALL MODEL, WA/WP = 1.00

* SURCHARGE INFORMATION *

UNIFORM SURFACE PRESSURE = 0.000E+00 LBS/IN**2
EQUIVALENT SURFACE PRESSURE = 2.624E+00 LBS/IN**2

DUE TO SLOPE OF BACKFILL
STARTS AT EXCAVATION LINE

* SOIL INFORMATION *

LAYER NO.	TOTAL THICKNESS FT	COHESION/ STRENGTH PSI	PHI DEG	TOTAL UNIT WEIGHT PCI	DRAINED T OR F	ZTOP FT
1	12.0	0.0	30.0	0.069	T	0.00
2	15.0	34.7	0.0	0.034	F	12.00

* EFFECTIVE OVERBURDEN STRESS *

DEPTH FT	STRESS LBS/IN**2
0.000E+00	0.000E+00
1.200E+01	1.262E+01

* ACTIVE AND PASSIVE EARTH PRESSURE COEFFICIENT *

LAYER NO.	ACTIVE EARTH COEFFICIENT	PASSIVE EARTH(*) COEFFICIENT	OPTIONAL EARTH(**) COEFFICIENT
1	4.039E-01	3.000E+00	0.000E+00
2	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	PA1	Z1	PA2	Z2	PA3	Z3	PA4
NO	LBS/IN	FT	LBS/IN	FT	LBS/IN	FT	LBS/IN
1	0.00	6.00	290.83	8.00	0.00	-0.00	0.00

* GENERATED ACTIVE EARTH PRESSURE *

* GENERATED TRIANGULAR-DISTRIBUTION EARTH PRESSURE

* WARNING *

This model uses a reduction of active loads for the cohesive strength of clay. Please check carefully these results. Please evaluate if other alternatives are more applicable to your model (e.g., other/reduced cohesive strength, equivalent fluid pressure, and/or other type of retained soil to simulate drained and/or long-term conditions).

DEPTH	ACTIVE EARTH PRESSURE
FT	LBS/IN
0.00000E+00	0.00000E+00
5.00000E-01	3.70260E+00
1.00000E+00	7.40520E+00

1.50000E+00	1.11080E+01
2.00000E+00	1.48106E+01
2.50000E+00	1.85132E+01
3.00000E+00	2.22156E+01
3.50000E+00	2.59182E+01
4.00000E+00	2.96208E+01
4.50000E+00	3.33234E+01
5.00000E+00	3.70260E+01
5.50000E+00	4.07286E+01
6.00000E+00	4.44312E+01
6.50000E+00	4.81338E+01
7.00000E+00	5.18364E+01
7.50000E+00	5.55390E+01
8.00000E+00	5.92416E+01
8.50000E+00	6.29442E+01
9.00000E+00	6.66468E+01
9.50000E+00	7.03494E+01
1.00000E+01	7.40520E+01
1.05000E+01	7.77546E+01
1.10000E+01	8.14572E+01
1.15000E+01	8.51598E+01
1.20000E+01	8.88624E+01
1.25000E+01	3.32200E-09
1.30000E+01	3.45400E-09
1.35000E+01	3.58600E-09
1.40000E+01	3.71800E-09
1.45000E+01	3.85000E-09
1.50000E+01	3.98200E-09
1.55000E+01	4.11400E-09
1.60000E+01	4.24600E-09
1.65000E+01	4.37800E-09
1.70000E+01	4.51000E-09
1.75000E+01	4.64200E-09
1.80000E+01	4.77400E-09
1.85000E+01	4.90600E-09
1.90000E+01	5.03800E-09

1.95000E+01	5.17000E-09
2.00000E+01	5.30200E-09
2.05000E+01	5.43400E-09
2.10000E+01	5.56600E-09
2.15000E+01	5.69800E-09
2.20000E+01	5.83000E-09
2.25000E+01	5.96200E-09
2.30000E+01	6.09400E-09
2.35000E+01	6.22600E-09
2.40000E+01	6.35800E-09
2.45000E+01	6.49000E-09
2.50000E+01	6.62200E-09
2.55000E+01	6.75400E-09
2.60000E+01	6.88600E-09
2.65000E+01	7.01800E-09
2.70000E+01	7.15000E-09

 * SOIL LAYERS AND STRENGTH DATA *

X AT THE SURFACE OF EXCAVATION SIDE = 12.00 FT

1 LAYER(S) OF SOIL

LAYER 1
 THE SOIL IS A STIFF CLAY WITHOUT FREE WATER

DISTRIBUTION OF EFFECTIVE UNIT WEIGHT WITH DEPTH
 2 POINTS

X, FT	WEIGHT, LBS/IN**3
12.0000	-1.5093E-03

27.0000 -1.5093E-03

DISTRIBUTION OF STRENGTH PARAMETERS WITH DEPTH
2 POINTS

X, FT	C, LBS/IN**2	PHI, DEGREE	E50	KPY, LBS/IN**3
12.00	3.4722E+01	0.000	0.0000E+00	0.0000E+00
27.00	3.4722E+01	0.000	0.0000E+00	0.0000E+00

P-Y CURVES DATA

AT THE EXCAVATION SIDE

CONTINUOUS WALL MODEL, WA/WP = 1.00

DEPTH BELOW GS FT	DIAM IN	RDIAM IN	C LBS/IN**2	CAVG LBS/IN**2	GAMMA AVG LBS/IN**3	E50
0.01	22.000	12.00	3.47E+01	3.47E+01	-1.51E-03	4.0000E-03

Y IN	P LBS/IN
0.00000	0.00000
0.00002	85.91307
0.00010	128.47000
0.00019	152.77744
0.00096	228.45557
0.00192	271.68099
0.00960	406.25783
0.01920	483.12470
0.04800	607.49715
0.09600	722.43993
0.14400	799.51122

0.19200	859.13071
0.48000	1080.29967
0.96000	1284.70006
1.92000	1527.77445
2.16000	1527.77445
2.40000	1527.77445

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

AT THE BACKFILL SIDE

CONTINUOUS WALL MODEL, WA/WP = 1.00

DEPTH BELOW GS FT	DIAM IN	RDIAM IN	C LBS/IN**2	CAVG LBS/IN**2	GAMMA AVG LBS/IN**3	E50
12.01	22.000	12.00	3.47E+01	3.47E+01	6.94E-02	4.0000E-03

Y IN	P LBS/IN
0.00000	0.00000
0.00002	98.28458
0.00010	146.96973
0.00019	174.77744
0.00096	261.35324
0.00192	310.80313
0.00960	464.75908
0.01920	552.69481
0.04800	694.97693
0.09600	826.47151
0.14400	914.64108
0.19200	982.84580
0.48000	1235.86316
0.96000	1469.69727
1.92000	1747.77445
2.16000	1747.77445

2.40000 1747.77445

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

AT THE EXCAVATION SIDE

CONTINUOUS WALL MODEL, WA/WP = 1.00

DEPTH BELOW GS FT	DIAM IN	RDIAM IN	C LBS/IN**2	CAVG LBS/IN**2	GAMMA AVG LBS/IN**3	E50
3.75	22.000	12.00	3.47E+01	3.47E+01	-1.51E-03	4.0000E-03

Y IN	P LBS/IN
0.00000	0.00000
0.00002	85.82923
0.00010	128.34464
0.00019	152.62836
0.00096	228.23264
0.00192	271.41587
0.00960	405.86139
0.01920	482.65325
0.04800	606.90434
0.09600	721.73496
0.14400	798.73103
0.19200	858.29235
0.48000	1079.24549
0.96000	1283.44641
1.92000	1526.28360
2.16000	1526.28360
2.40000	1526.28360

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

AT THE BACKFILL SIDE

CONTINUOUS WALL MODEL, WA/WP = 1.00

DEPTH BELOW GS FT	DIAM IN	RDIAM IN	C LBS/IN**2	CAVG LBS/IN**2	GAMMA AVG LBS/IN**3	E50
15.75	22.000	12.00	3.47E+01	3.47E+01	5.26E-02	4.0000E-03

Y IN	P LBS/IN
0.00000	0.00000
0.00002	98.20074
0.00010	146.84436
0.00019	174.62836
0.00096	261.13031
0.00192	310.53802
0.00960	464.36264
0.01920	552.22336
0.04800	694.38412
0.09600	825.76653
0.14400	913.86090
0.19200	982.00744
0.48000	1234.80898
0.96000	1468.44362
1.92000	1746.28360
2.16000	1746.28360
2.40000	1746.28360

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

AT THE EXCAVATION SIDE

CONTINUOUS WALL MODEL, WA/WP = 1.00

DEPTH BELOW GS	DIAM	RDIAM	C	CAVG	GAMMA AVG	E50
----------------	------	-------	---	------	-----------	-----

FT	IN	IN	LBS/IN**2	LBS/IN**2	LBS/IN**3	
7.50	22.000	12.00	3.47E+01	3.47E+01	-1.51E-03	4.0000E-03

Y	P
IN	LBS/IN
0.00000	0.00000
0.00002	85.74521
0.00010	128.21900
0.00019	152.47894
0.00096	228.00921
0.00192	271.15017
0.00960	405.46407
0.01920	482.18076
0.04800	606.31021
0.09600	721.02841
0.14400	797.94911
0.19200	857.45212
0.48000	1078.18895
0.96000	1282.18997
1.92000	1524.78944
2.16000	1524.78944
2.40000	1524.78944

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

AT THE BACKFILL SIDE

CONTINUOUS WALL MODEL, WA/WP = 1.00

DEPTH BELOW GS	DIAM	RDIAM	C	CAVG	GAMMA AVG	E50
FT	IN	IN	LBS/IN**2	LBS/IN**2	LBS/IN**3	
19.50	22.000	12.00	3.47E+01	3.47E+01	4.22E-02	4.0000E-03

Y	P
IN	LBS/IN

0.00000	0.00000
0.00002	98.11672
0.00010	146.71872
0.00019	174.47894
0.00096	260.90688
0.00192	310.27232
0.00960	463.96532
0.01920	551.75086
0.04800	693.78999
0.09600	825.05999
0.14400	913.07898
0.19200	981.16721
0.48000	1233.75244
0.96000	1467.18718
1.92000	1744.78944
2.16000	1744.78944
2.40000	1744.78944

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

AT THE EXCAVATION SIDE

CONTINUOUS WALL MODEL, WA/WP = 1.00

DEPTH BELOW GS	DIAM	RDIAM	C	CAVG	GAMMA AVG	E50
FT	IN	IN	LBS/IN**2	LBS/IN**2	LBS/IN**3	
11.25	22.000	12.00	3.47E+01	3.47E+01	-1.51E-03	4.0000E-03

	Y	P
	IN	LBS/IN
0.00000	0.00000	
0.00002	85.66119	
0.00010	128.09335	
0.00019	152.32953	
0.00096	227.78578	

0.00192	270.88447
0.00960	405.06675
0.01920	481.70826
0.04800	605.71607
0.09600	720.32186
0.14400	797.16719
0.19200	856.61189
0.48000	1077.13242
0.96000	1280.93353
1.92000	1523.29527
2.16000	1523.29527
2.40000	1523.29527

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

AT THE BACKFILL SIDE

CONTINUOUS WALL MODEL, WA/WP = 1.00

DEPTH BELOW GS FT	DIAM IN	RDIAM IN	C LBS/IN**2	CAVG LBS/IN**2	GAMMA AVG LBS/IN**3	E50
23.25	22.000	12.00	3.47E+01	3.47E+01	3.51E-02	4.0000E-03
	Y IN			P LBS/IN		
	0.00000			0.00000		
	0.00002			98.03270		
	0.00010			146.59307		
	0.00019			174.32953		
	0.00096			260.68345		
	0.00192			310.00661		
	0.00960			463.56800		
	0.01920			551.27837		
	0.04800			693.19585		
	0.09600			824.35344		

0.14400	912.29705
0.19200	980.32698
0.48000	1232.69591
0.96000	1465.93074
1.92000	1743.29527
2.16000	1743.29527
2.40000	1743.29527

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

AT THE EXCAVATION SIDE

CONTINUOUS WALL MODEL, WA/WP = 1.00

DEPTH BELOW GS FT	DIAM IN	RDIAM IN	C LBS/IN**2	CAVG LBS/IN**2	GAMMA AVG LBS/IN**3	E50
14.99	22.000	12.00	3.47E+01	3.47E+01	-1.51E-03	4.0000E-03

Y IN	P LBS/IN
0.00000	0.00000
0.00002	85.57735
0.00010	127.96799
0.00019	152.18044
0.00096	227.56284
0.00192	270.61935
0.00960	404.67031
0.01920	481.23681
0.04800	605.12326
0.09600	719.61689
0.14400	796.38700
0.19200	855.77352
0.48000	1076.07823
0.96000	1279.67989
1.92000	1521.80443

2.16000	1521.80443
2.40000	1521.80443

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

AT THE BACKFILL SIDE

CONTINUOUS WALL MODEL, WA/WP = 1.00

DEPTH BELOW GS	DIAM	RDIAM	C	CAVG	GAMMA AVG	E50
FT	IN	IN	LBS/IN**2	LBS/IN**2	LBS/IN**3	
26.99	22.000	12.00	3.47E+01	3.47E+01	3.00E-02	4.0000E-03

Y	P
IN	LBS/IN
0.00000	0.00000
0.00002	97.94886
0.00010	146.46771
0.00019	174.18044
0.00096	260.46052
0.00192	309.74150
0.00960	463.17156
0.01920	550.80692
0.04800	692.60304
0.09600	823.64846
0.14400	911.51687
0.19200	979.48861
0.48000	1231.64172
0.96000	1464.67710
1.92000	1741.80443
2.16000	1741.80443
2.40000	1741.80443

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

Hiiliard Cemetery Forward Abutment, Boring B-006-0-23

RESULTS

NUMBER OF ITERATIONS : 9

***** ANALYSIS COMPLETED *****

Max deflection = 0.72"
Allowable = (0.01)(12')(12) = 1.44"
OK

STA I	X FT	DEFL. IN	SLOPE RAD	MOMENT LBS-IN	SHEAR LBS	SOIL_REACT LBS/IN	NET_FORCE/STA LBS	EI LBS-IN**2
-----	-----	-----	-----	-----	-----	-----	-----	-----
0	0.000E+00	7.226E-01	-5.149E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	4.486E+09
1	2.700E-01	7.059E-01	-5.149E-03	0.000E+00	3.239E+00	0.000E+00	6.478E+00	4.486E+09
2	5.400E-01	6.892E-01	-5.149E-03	2.099E+01	1.296E+01	0.000E+00	1.296E+01	4.486E+09
3	8.100E-01	6.725E-01	-5.149E-03	8.396E+01	2.915E+01	0.000E+00	1.943E+01	4.486E+09
4	1.080E+00	6.558E-01	-5.149E-03	2.099E+02	5.182E+01	0.000E+00	2.591E+01	4.486E+09
5	1.350E+00	6.391E-01	-5.149E-03	4.198E+02	8.098E+01	0.000E+00	3.239E+01	4.486E+09
6	1.620E+00	6.225E-01	-5.149E-03	7.346E+02	1.166E+02	0.000E+00	3.887E+01	4.486E+09
7	1.890E+00	6.058E-01	-5.148E-03	1.175E+03	1.587E+02	0.000E+00	4.535E+01	4.486E+09
8	2.160E+00	5.891E-01	-5.147E-03	1.763E+03	2.073E+02	0.000E+00	5.183E+01	4.486E+09
9	2.430E+00	5.724E-01	-5.145E-03	2.519E+03	2.624E+02	0.000E+00	5.830E+01	4.486E+09
10	2.700E+00	5.558E-01	-5.143E-03	3.463E+03	3.239E+02	0.000E+00	6.478E+01	4.486E+09
11	2.970E+00	5.391E-01	-5.140E-03	4.618E+03	3.919E+02	0.000E+00	7.126E+01	4.486E+09
12	3.240E+00	5.225E-01	-5.136E-03	6.003E+03	4.664E+02	0.000E+00	7.774E+01	4.486E+09
13	3.510E+00	5.058E-01	-5.131E-03	7.640E+03	5.474E+02	0.000E+00	8.422E+01	4.486E+09
14	3.780E+00	4.892E-01	-5.125E-03	9.550E+03	6.349E+02	0.000E+00	9.070E+01	4.486E+09
15	4.050E+00	4.726E-01	-5.117E-03	1.175E+04	7.288E+02	0.000E+00	9.717E+01	4.486E+09
16	4.320E+00	4.560E-01	-5.108E-03	1.427E+04	8.292E+02	0.000E+00	1.036E+02	4.486E+09
17	4.590E+00	4.395E-01	-5.097E-03	1.713E+04	9.361E+02	0.000E+00	1.101E+02	4.486E+09
18	4.860E+00	4.230E-01	-5.083E-03	2.034E+04	1.049E+03	0.000E+00	1.166E+02	4.486E+09
19	5.130E+00	4.066E-01	-5.067E-03	2.393E+04	1.169E+03	0.000E+00	1.231E+02	4.486E+09
20	5.400E+00	3.902E-01	-5.048E-03	2.792E+04	1.296E+03	0.000E+00	1.296E+02	4.486E+09
21	5.670E+00	3.739E-01	-5.027E-03	3.232E+04	1.428E+03	0.000E+00	1.360E+02	4.486E+09
22	5.940E+00	3.576E-01	-5.002E-03	3.717E+04	1.568E+03	0.000E+00	1.425E+02	4.486E+09
23	6.210E+00	3.414E-01	-4.973E-03	4.248E+04	1.713E+03	0.000E+00	1.490E+02	4.486E+09

24	6.480E+00	3.254E-01	-4.940E-03	4.828E+04	1.866E+03	0.000E+00	1.555E+02	4.486E+09
25	6.750E+00	3.094E-01	-4.903E-03	5.457E+04	2.024E+03	0.000E+00	1.620E+02	4.486E+09
26	7.020E+00	2.936E-01	-4.861E-03	6.139E+04	2.190E+03	0.000E+00	1.684E+02	4.486E+09
27	7.290E+00	2.779E-01	-4.814E-03	6.876E+04	2.361E+03	0.000E+00	1.749E+02	4.486E+09
28	7.560E+00	2.624E-01	-4.762E-03	7.669E+04	2.539E+03	0.000E+00	1.814E+02	4.486E+09
29	7.830E+00	2.471E-01	-4.703E-03	8.522E+04	2.724E+03	0.000E+00	1.879E+02	4.486E+09
30	8.100E+00	2.319E-01	-4.638E-03	9.435E+04	2.915E+03	0.000E+00	1.943E+02	4.486E+09
31	8.370E+00	2.170E-01	-4.567E-03	1.041E+05	3.113E+03	0.000E+00	2.008E+02	4.486E+09
32	8.640E+00	2.023E-01	-4.488E-03	1.145E+05	3.317E+03	0.000E+00	2.073E+02	4.486E+09
33	8.910E+00	1.879E-01	-4.401E-03	1.256E+05	3.527E+03	0.000E+00	2.138E+02	4.486E+09
34	9.180E+00	1.738E-01	-4.306E-03	1.374E+05	3.744E+03	0.000E+00	2.203E+02	4.486E+09
35	9.450E+00	1.600E-01	-4.202E-03	1.499E+05	3.968E+03	0.000E+00	2.267E+02	4.486E+09
36	9.720E+00	1.466E-01	-4.089E-03	1.631E+05	4.198E+03	0.000E+00	2.332E+02	4.486E+09
37	9.990E+00	1.335E-01	-3.966E-03	1.771E+05	4.434E+03	0.000E+00	2.397E+02	4.486E+09
38	1.026E+01	1.209E-01	-3.833E-03	1.918E+05	4.677E+03	0.000E+00	2.462E+02	4.486E+09
39	1.053E+01	1.087E-01	-3.689E-03	2.074E+05	4.927E+03	0.000E+00	2.526E+02	4.486E+09
40	1.080E+01	9.699E-02	-3.533E-03	2.237E+05	5.183E+03	0.000E+00	2.591E+02	4.486E+09
41	1.107E+01	8.580E-02	-3.366E-03	2.410E+05	5.445E+03	0.000E+00	2.656E+02	4.486E+09
42	1.134E+01	7.518E-02	-3.185E-03	2.590E+05	5.714E+03	0.000E+00	2.721E+02	4.486E+09
43	1.161E+01	6.516E-02	-2.991E-03	2.780E+05	5.989E+03	0.000E+00	2.786E+02	4.486E+09
44	1.188E+01	5.580E-02	-2.783E-03	2.978E+05	5.764E+03	-6.262E+02	-7.293E+02	4.486E+09
45	1.215E+01	4.713E-02	-2.562E-03	3.153E+05	4.421E+03	-6.037E+02	-1.956E+03	4.486E+09
46	1.242E+01	3.919E-02	-2.330E-03	3.265E+05	2.521E+03	-5.694E+02	-1.845E+03	4.486E+09
47	1.269E+01	3.203E-02	-2.092E-03	3.317E+05	7.260E+02	-5.384E+02	-1.744E+03	4.486E+09
48	1.296E+01	2.564E-02	-1.853E-03	3.312E+05	-9.736E+02	-5.108E+02	-1.655E+03	4.486E+09
49	1.323E+01	2.002E-02	-1.616E-03	3.254E+05	-2.589E+03	-4.865E+02	-1.576E+03	4.486E+09
50	1.350E+01	1.516E-02	-1.385E-03	3.144E+05	-4.107E+03	-4.506E+02	-1.460E+03	4.486E+09
51	1.377E+01	1.105E-02	-1.164E-03	2.987E+05	-5.514E+03	-4.177E+02	-1.353E+03	4.486E+09
52	1.404E+01	7.625E-03	-9.550E-04	2.787E+05	-6.792E+03	-3.715E+02	-1.204E+03	4.486E+09
53	1.431E+01	4.857E-03	-7.624E-04	2.547E+05	-7.917E+03	-3.229E+02	-1.046E+03	4.486E+09
54	1.458E+01	2.684E-03	-5.883E-04	2.274E+05	-8.902E+03	-2.849E+02	-9.230E+02	4.486E+09
55	1.485E+01	1.044E-03	-4.351E-04	1.970E+05	-9.739E+03	-2.321E+02	-7.518E+02	4.486E+09
56	1.512E+01	-1.350E-04	-3.046E-04	1.643E+05	-9.859E+03	1.581E+02	5.123E+02	4.486E+09
57	1.539E+01	-9.298E-04	-1.972E-04	1.331E+05	-9.186E+03	2.577E+02	8.350E+02	4.486E+09
58	1.566E+01	-1.413E-03	-1.113E-04	1.047E+05	-8.307E+03	2.844E+02	9.215E+02	4.486E+09
59	1.593E+01	-1.651E-03	-4.485E-05	7.932E+04	-7.366E+03	2.966E+02	9.611E+02	4.486E+09

60	1.620E+01	-1.704E-03	4.379E-06	5.701E+04	-6.401E+03	2.993E+02	9.698E+02	4.486E+09
61	1.647E+01	-1.623E-03	3.863E-05	3.784E+04	-5.437E+03	2.951E+02	9.563E+02	4.486E+09
62	1.674E+01	-1.453E-03	6.016E-05	2.178E+04	-4.495E+03	2.864E+02	9.280E+02	4.486E+09
63	1.701E+01	-1.233E-03	7.117E-05	8.714E+03	-3.586E+03	2.750E+02	8.912E+02	4.486E+09
64	1.728E+01	-9.921E-04	7.379E-05	-1.460E+03	-2.715E+03	2.626E+02	8.510E+02	4.486E+09
65	1.755E+01	-7.547E-04	7.005E-05	-8.876E+03	-1.904E+03	2.378E+02	7.708E+02	4.486E+09
66	1.782E+01	-5.381E-04	6.187E-05	-1.380E+04	-1.172E+03	2.134E+02	6.918E+02	4.486E+09
67	1.809E+01	-3.538E-04	5.094E-05	-1.647E+04	-5.142E+02	1.927E+02	6.245E+02	4.486E+09
68	1.836E+01	-2.081E-04	3.881E-05	-1.713E+04	8.372E+01	1.763E+02	5.713E+02	4.486E+09
69	1.863E+01	-1.024E-04	2.687E-05	-1.593E+04	6.101E+02	1.484E+02	4.814E+02	4.486E+09
70	1.890E+01	-3.396E-05	1.636E-05	-1.317E+04	1.025E+03	1.073E+02	3.482E+02	4.486E+09
71	1.917E+01	3.627E-06	8.247E-06	-9.289E+03	1.173E+03	-1.687E+01	-5.249E+01	4.486E+09
72	1.944E+01	1.948E-05	2.880E-06	-5.575E+03	1.007E+03	-8.591E+01	-2.783E+02	4.486E+09
73	1.971E+01	2.229E-05	-1.310E-07	-2.762E+03	7.265E+02	-8.740E+01	-2.833E+02	4.486E+09
74	1.998E+01	1.863E-05	-1.442E-06	-8.676E+02	4.500E+02	-8.256E+01	-2.696E+02	4.486E+09
75	2.025E+01	1.294E-05	-1.699E-06	1.538E+02	2.216E+02	-5.719E+01	-1.873E+02	4.486E+09
76	2.052E+01	7.619E-06	-1.439E-06	5.683E+02	7.284E+01	-3.356E+01	-1.102E+02	4.486E+09
77	2.079E+01	3.622E-06	-1.007E-06	6.258E+02	-8.460E+00	-1.588E+01	-5.240E+01	4.486E+09
78	2.106E+01	1.090E-06	-5.961E-07	5.135E+02	-4.254E+01	-4.710E+00	-1.577E+01	4.486E+09
79	2.133E+01	-2.401E-07	-2.842E-07	3.501E+02	-4.844E+01	1.298E+00	3.974E+00	4.486E+09
80	2.160E+01	-7.513E-07	-8.568E-08	1.996E+02	-4.024E+01	3.846E+00	1.243E+01	4.486E+09
81	2.187E+01	-7.953E-07	1.868E-08	8.939E+01	-2.744E+01	4.042E+00	1.316E+01	4.486E+09
82	2.214E+01	-6.303E-07	5.882E-08	2.180E+01	-1.565E+01	3.191E+00	1.043E+01	4.486E+09
83	2.241E+01	-4.142E-07	6.236E-08	-1.200E+01	-7.006E+00	2.090E+00	6.853E+00	4.486E+09
84	2.268E+01	-2.262E-07	4.950E-08	-2.360E+01	-1.708E+00	1.137E+00	3.742E+00	4.486E+09
85	2.295E+01	-9.338E-08	3.265E-08	-2.307E+01	9.350E-01	4.663E-01	1.545E+00	4.486E+09
86	2.322E+01	-1.459E-08	1.798E-08	-1.754E+01	1.828E+00	6.944E-02	2.414E-01	4.486E+09
87	2.349E+01	2.316E-08	7.596E-09	-1.123E+01	1.781E+00	-1.047E-01	-3.347E-01	4.486E+09
88	2.376E+01	3.463E-08	1.376E-09	-5.998E+00	1.364E+00	-1.542E-01	-5.005E-01	4.486E+09
89	2.403E+01	3.207E-08	-1.653E-09	-2.390E+00	8.818E-01	-1.421E-01	-4.635E-01	4.486E+09
90	2.430E+01	2.392E-08	-2.618E-09	-2.835E-01	4.772E-01	-1.057E-01	-3.457E-01	4.486E+09
91	2.457E+01	1.511E-08	-2.467E-09	7.026E-01	1.952E-01	-6.654E-02	-2.183E-01	4.486E+09
92	2.484E+01	7.938E-09	-1.858E-09	9.815E-01	2.871E-02	-3.482E-02	-1.147E-01	4.486E+09
93	2.511E+01	3.065E-09	-1.183E-09	8.887E-01	-5.077E-02	-1.331E-02	-4.428E-02	4.486E+09
94	2.538E+01	2.710E-10	-6.266E-10	6.525E-01	-7.487E-02	-1.028E-03	-3.915E-03	4.486E+09
95	2.565E+01	-9.959E-10	-2.453E-10	4.035E-01	-6.860E-02	5.158E-03	1.647E-02	4.486E+09

96	2.592E+01	-1.319E-09	-2.450E-11	2.079E-01	-4.946E-02	6.730E-03	2.180E-02	4.486E+09
97	2.619E+01	-1.155E-09	8.056E-11	8.300E-02	-2.902E-02	5.860E-03	1.909E-02	4.486E+09
98	2.646E+01	-7.965E-10	1.177E-10	1.990E-02	-1.289E-02	4.024E-03	1.317E-02	4.486E+09
99	2.673E+01	-3.918E-10	1.247E-10	-5.431E-04	-3.071E-03	1.962E-03	6.477E-03	4.486E+09
100	2.700E+01	1.161E-11	1.245E-10	2.209E-17	8.382E-05	-7.851E-05	-1.676E-04	4.486E+09

END OF ANALYSIS