

SLOPILE Ver 2.0

JOB TITLE
 JOB: 10-1-04

ANALYSIS METHOD
 Bishop's Simplified Method

THE FACTORS OF SAFETY
 at least 1.00 (min. Factor) = 1.00

CIRCULAR FAILURE CENTER
 (C, R) = (0.0, 0.0)

NON-CIRCULAR FAILURE CENTER
 (C, R) = (0.0, 0.0)

REFLECTION OF FILE
 FILE TOP = 0.00
 FILE BGC = 0.00

SLY COORDINATE
 (X, Y) = (0.0, 0.0)

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: BISHOP SIMPLIFIED METHOD

$$F_s = \frac{1.71}{1.71} = 1.71$$

=	604.93	+	379.23	=	984.16
=	642.76				
=	0.00				
=	0.00				

$$F_s = \frac{\quad + \quad \text{PILE} + \quad \text{ANCHOR} + \quad \text{NAIL} + \quad \text{GEOGRID}}{\quad} = 1.89$$

SLOPE STABILITY ANALYSIS

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 : ()
 :
 : BISHOP SIMPLIFIED METHOD

SOIL PARAMETERS

	(t/m ³)		(t/m ²)	()	(kg/cm ²)	(t/m ²)		HA	HB
1	2.40	2.40	1000.00	45.00	5.00	90.00	150.00	0.0	0.0
2	2.40	2.40	1000.00	45.00	5.00	90.00	150.00	0.0	0.0
3	1.80	1.90	0.00	35.00	5.00	90.00	150.00	0.0	0.0
4	1.80	1.90	0.00	35.00	5.00	90.00	150.00	0.0	0.0
5	1.80	1.90	3.00	30.00	2.00	90.00	150.00	0.0	0.0
6	1.90	2.00	5.00	35.00	5.00	120.00	240.00	0.0	0.0
7	2.00	2.10	7.00	35.00	7.00	240.00	480.00	0.0	0.0
8	2.10	2.20	10.00	40.00	10.00	480.00	900.00	0.0	0.0

BOUNDARY COORDINATES

	X	Y		X	Y
1	0.00	40.00	2	32.00	50.00
3	34.00	50.00	4	28.00	40.00
5	30.00	40.00	6	44.00	50.00
7	44.00	52.00	8	46.00	52.00
9	48.00	60.00	10	50.00	60.00
11	50.00	52.00	12	52.00	52.00
13	52.00	50.00	14	56.00	64.00
15	59.00	64.00	16	78.00	76.00
17	82.00	76.00	18	96.00	86.00
19	100.00	88.00	20	40.00	40.00
21	59.00	50.00	22	0.00	32.00
23	10.00	36.00	24	22.00	40.00
25	0.00	18.00	26	14.00	22.00
27	30.00	28.00	28	52.00	38.00

29	74.00	50.00	30	90.00	62.00
31	100.00	66.00	32	0.00	10.00
33	38.00	20.00	34	72.00	32.00
35	92.00	38.00	36	100.00	40.00

PILE DATA

1	59.10	64.06	25.00	0.35	0.75	2	3
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ANCHOR DATA

	(M)	(M)	(Deg)	(M)	(EA)	(M)	(M)	(ton)	(kg/cm ²)		
1	20.00	8.00	25.94	2.50	4.00	0.1000	0.0127	11.22	15.00	2.50	2.50
2	19.03	8.00	26.57	2.50	4.00	0.1000	0.0127	11.22	15.00	2.50	2.50
3	15.73	7.00	26.20	2.50	4.00	0.1000	0.0127	11.22	15.00	2.50	2.50
4	11.34	7.00	29.60	2.50	4.00	0.1000	0.0127	11.22	15.00	2.50	2.50

NAIL DATA

	(M)	(Deg)	(M)	(M)	(ton)	
1	8.53	23.20	2.50	0.1000	10.00	2.50
2	8.82	23.96	2.50	0.1000	10.00	2.50
3	8.51	26.57	2.50	0.1000	10.00	2.50
4	8.01	26.57	2.50	0.1000	10.00	2.50
5	6.81	27.41	2.50	0.1000	10.00	2.50
6	4.71	25.35	2.50	0.1000	10.00	2.50
7	4.51	26.57	2.50	0.1000	10.00	2.50

GEOGRID DATA

	(M)	(M)	(TON)	(TON)	RFID	RFCR	RFCD	RFBD	
1	11.42	1.00	10.00	10.00	1.20	2.50	1.30	1.10	0.80
2	11.87	1.00	10.00	10.00	1.20	2.50	1.30	1.10	0.80
3	11.42	1.00	10.00	10.00	1.20	2.50	1.30	1.10	0.80
4	11.42	1.00	10.00	10.00	1.20	2.50	1.30	1.10	0.80

WITHOUT REINFORCEMENT					WITH REINFORCEMENT			
	X	Y			X	Y		
1	63.34	68.01	0.00	10000.00000	63.34	68.01	0.00	10000.00000
2	63.34	68.01	0.00	10000.00000	63.34	68.01	0.00	10000.00000
3	63.34	68.01	0.00	10000.00000	63.34	68.01	0.00	10000.00000
4	63.34	68.01	0.00	10000.00000	63.34	68.01	0.00	10000.00000
5	63.34	68.01	0.00	10000.00000	63.34	68.01	0.00	10000.00000
6	63.34	68.01	0.00	10000.00000	63.34	68.01	0.00	10000.00000
7	63.34	68.01	0.00	10000.00000	63.34	68.01	0.00	10000.00000
8	63.34	68.01	0.00	10000.00000	63.34	68.01	0.00	10000.00000
9	63.34	68.01	0.00	10000.00000	63.34	68.01	0.00	10000.00000
10	63.34	68.01	0.00	10000.00000	63.34	68.01	0.00	10000.00000
11	63.34	68.01	0.00	10000.00000	63.34	68.01	0.00	10000.00000
12	63.34	68.01	0.00	10000.00000	63.34	68.01	0.00	10000.00000
13	63.34	68.01	0.00	10000.00000	63.34	68.01	0.00	10000.00000
14	63.34	68.01	0.00	10000.00000	63.34	68.01	0.00	10000.00000
15	63.34	68.01	0.00	10000.00000	63.34	68.01	0.00	10000.00000
16	63.34	68.01	0.00	10000.00000	63.34	68.01	0.00	10000.00000
17	63.34	68.01	0.00	10000.00000	63.34	68.01	0.00	10000.00000
18	63.34	68.01	0.00	10000.00000	63.34	68.01	0.00	10000.00000
19	63.34	68.01	0.00	10000.00000	63.34	68.01	0.00	10000.00000
20	63.34	68.01	0.00	10000.00000	63.34	68.01	0.00	10000.00000
21	63.34	68.01	0.00	10000.00000	63.34	68.01	0.00	10000.00000
22	21.35	105.81	66.78	1.94345	21.35	105.81	66.78	2.31643
23	21.35	103.92	64.92	1.95510	21.35	103.92	64.92	2.34535
24	21.35	102.03	63.06	1.95481	21.35	102.03	63.06	2.35111
25	21.35	100.14	61.20	1.96302	21.35	100.14	61.20	2.36649
26	21.35	98.25	59.35	1.97179	21.35	98.25	59.35	2.34021
27	21.35	96.36	57.49	2.00881	21.35	96.36	57.49	2.37729
28	21.35	94.47	55.64	1.98320	21.35	94.47	55.64	2.34429
29	21.35	92.58	53.79	1.98715	21.35	92.58	53.79	2.36411
30	21.35	90.69	51.95	1.99052	21.35	90.69	51.95	2.36841
31	21.35	88.80	50.10	1.99362	21.35	88.80	50.10	2.32280
32	21.35	86.91	48.77	2.10353	21.35	86.91	48.77	2.38473
33	21.35	85.02	47.56	2.19121	21.35	85.02	47.56	2.45119
34	21.35	83.13	46.49	2.30934	21.35	83.13	46.49	2.54121
35	21.35	81.24	44.74	2.33460	21.35	81.24	44.74	2.55201
36	21.35	79.35	43.85	2.46933	21.35	79.35	43.85	2.65810
37	21.35	77.46	42.16	2.50834	21.35	77.46	42.16	2.67079
38	21.35	75.57	41.49	2.66930	21.35	75.57	41.49	2.81522
39	21.35	73.68	39.88	2.73142	21.35	73.68	39.88	2.78249
40	21.35	71.79	38.29	12.43455	21.35	71.79	38.29	12.43455

WITHOUT REINFORCEMENT					WITH REINFORCEMENT			
	X	Y			X	Y		
41	21.35	69.90	36.74	14.33829	21.35	69.90	36.74	14.33829
42	21.35	68.01	35.22	16.40827	21.35	68.01	35.22	16.40827
43	23.56	105.81	66.24	1.90028	23.56	105.81	66.24	2.26693
44	23.56	103.92	64.37	1.87869	23.56	103.92	64.37	2.25583
45	23.56	102.03	62.49	1.89682	23.56	102.03	62.49	2.27534
46	23.56	100.14	60.61	1.90311	23.56	100.14	60.61	2.29891
47	23.56	98.25	58.74	1.90972	23.56	98.25	58.74	2.31551
48	23.56	96.36	56.86	1.91252	23.56	96.36	56.86	2.32362
49	23.56	94.47	54.99	1.91455	23.56	94.47	54.99	2.28920
50	23.56	92.58	53.12	1.91634	23.56	92.58	53.12	2.29382
51	23.56	90.69	51.25	1.88420	23.56	90.69	51.25	2.25682
52	23.56	88.80	49.38	1.88184	23.56	88.80	49.38	2.27007
53	23.56	86.91	47.52	1.87823	23.56	86.91	47.52	2.27829
54	23.56	85.02	46.02	1.97689	23.56	85.02	46.02	2.32154
55	23.56	83.13	44.65	2.03346	23.56	83.13	44.65	2.29926
56	23.56	81.24	43.41	2.14068	23.56	81.24	43.41	2.38109
57	23.56	79.35	41.62	2.14840	23.56	79.35	41.62	2.36539
58	23.56	77.46	40.56	2.27244	23.56	77.46	40.56	2.46032
59	23.56	75.57	39.67	2.41176	23.56	75.57	39.67	2.57338
60	23.56	73.68	37.98	2.43586	23.56	73.68	37.98	2.50770
61	23.56	71.79	37.33	2.57005	23.56	71.79	37.33	2.62595
62	23.56	69.90	35.73	2.67445	23.56	69.90	35.73	2.67445
63	23.56	68.01	35.35	2.84118	23.56	68.01	35.35	2.84118
64	25.77	105.81	66.06	1.89883	25.77	105.81	66.06	2.24447
65	25.77	103.92	64.18	1.89220	25.77	103.92	64.18	2.24741
66	25.77	102.03	62.30	1.88333	25.77	102.03	62.30	2.24883
67	25.77	100.14	60.42	1.88210	25.77	100.14	60.42	2.25447
68	25.77	98.25	58.54	1.86654	25.77	98.25	58.54	2.25459
69	25.77	96.36	56.65	1.88509	25.77	96.36	56.65	2.27994
70	25.77	94.47	54.77	1.88908	25.77	94.47	54.77	2.28914
71	25.77	92.58	52.90	1.89315	25.77	92.58	52.90	2.29936
72	25.77	90.69	51.02	1.86745	25.77	90.69	51.02	2.27531
73	25.77	88.80	49.14	1.89548	25.77	88.80	49.14	2.24321
74	25.77	86.91	47.26	1.89226	25.77	86.91	47.26	2.24281
75	25.77	85.02	45.39	1.85206	25.77	85.02	45.39	2.20516
76	25.77	83.13	43.51	1.84325	25.77	83.13	43.51	2.19421
77	25.77	81.24	41.64	1.83196	25.77	81.24	41.64	2.12450
78	25.77	79.35	40.11	1.88554	25.77	79.35	40.11	2.13594
79	25.77	77.46	38.71	1.98365	25.77	77.46	38.71	2.20155
80	25.77	75.57	37.47	2.05542	25.77	75.57	37.47	2.24947
81	25.77	73.68	36.39	2.17269	25.77	73.68	36.39	2.32042
82	25.77	71.79	35.49	2.30914	25.77	71.79	35.49	2.41726

WITHOUT REINFORCEMENT					WITH REINFORCEMENT			
	X	Y			X	Y		
83	25.77	69.90	33.80	2.39587	25.77	69.90	33.80	2.39587
84	25.77	68.01	33.17	2.53221	25.77	68.01	33.17	2.53221
85	27.98	105.81	65.93	1.87079	27.98	105.81	65.93	2.20518
86	27.98	103.92	64.04	1.86756	27.98	103.92	64.04	2.21115
87	27.98	102.03	62.16	1.86234	27.98	102.03	62.16	2.21088
88	27.98	100.14	60.27	1.85489	27.98	100.14	60.27	2.21474
89	27.98	98.25	58.39	1.85478	27.98	98.25	58.39	2.22547
90	27.98	96.36	56.50	1.86437	27.98	96.36	56.50	2.23803
91	27.98	94.47	54.62	1.87011	27.98	94.47	54.62	2.24995
92	27.98	92.58	52.73	1.89559	27.98	92.58	52.73	2.28739
93	27.98	90.69	50.85	1.87208	27.98	90.69	50.85	2.26925
94	27.98	88.80	48.96	1.87272	27.98	88.80	48.96	2.27093
95	27.98	86.91	47.08	1.87309	27.98	86.91	47.08	2.26264
96	27.98	85.02	45.20	1.84118	27.98	85.02	45.20	2.18809
97	27.98	83.13	43.31	1.83778	27.98	83.13	43.31	2.17874
98	27.98	81.24	41.43	1.83301	27.98	81.24	41.43	2.16528
99	27.98	79.35	39.55	1.78668	27.98	79.35	39.55	2.10683
100	27.98	77.46	37.67	1.79637	27.98	77.46	37.67	2.04351
101	27.98	75.57	35.79	1.77255	27.98	75.57	35.79	1.99199
102	27.98	73.68	34.61	1.91098	27.98	73.68	34.61	2.10300
103	27.98	71.79	33.32	2.01342	27.98	71.79	33.32	2.09979
104	27.98	69.90	32.21	2.16226	27.98	69.90	32.21	2.18717
105	27.98	68.01	31.30	2.29443	27.98	68.01	31.30	2.29443
106	30.19	105.81	65.85	1.86369	30.19	105.81	65.85	2.18623
107	30.19	103.92	63.96	1.86231	30.19	103.92	63.96	2.19550
108	30.19	102.03	62.07	1.85924	30.19	102.03	62.07	2.19779
109	30.19	100.14	60.18	1.85437	30.19	100.14	60.18	2.19958
110	30.19	98.25	58.29	1.84759	30.19	98.25	58.29	2.19341
111	30.19	96.36	56.40	1.83879	30.19	96.36	56.40	2.19767
112	30.19	94.47	54.51	1.83716	30.19	94.47	54.51	2.20664
113	30.19	92.58	52.63	1.85090	30.19	92.58	52.63	2.22010
114	30.19	90.69	50.74	1.85427	30.19	90.69	50.74	2.23905
115	30.19	88.80	48.85	1.85770	30.19	88.80	48.85	2.25232
116	30.19	86.91	46.96	1.86130	30.19	86.91	46.96	2.25758
117	30.19	85.02	45.07	1.83663	30.19	85.02	45.07	2.23487
118	30.19	83.13	43.19	1.83800	30.19	83.13	43.19	2.23312
119	30.19	81.24	41.30	1.85428	30.19	81.24	41.30	2.22995
120	30.19	79.35	39.41	1.81449	30.19	79.35	39.41	2.13497
121	30.19	77.46	37.52	1.80435	30.19	77.46	37.52	2.12155
122	30.19	75.57	35.64	1.79158	30.19	75.57	35.64	2.07872
123	30.19	73.68	33.75	1.73110	30.19	73.68	33.75	1.95021
124	30.19	71.79	31.87	1.70516	30.19	71.79	31.87	1.89129

WITHOUT REINFORCEMENT					WITH REINFORCEMENT			
	X	Y			X	Y		
125	30.19	69.90	30.53	1.88345	30.19	69.90	30.53	1.95996
126	30.19	68.01	29.18	2.02879	30.19	68.01	29.18	2.02879
127	32.40	105.81	65.96	1.89933	32.40	105.81	65.96	2.21300
128	32.40	103.92	64.07	1.90341	32.40	103.92	64.07	2.22099
129	32.40	102.03	62.19	1.90648	32.40	102.03	62.19	2.23442
130	32.40	100.14	60.30	1.90842	32.40	100.14	60.30	2.24273
131	32.40	98.25	58.42	1.90903	32.40	98.25	58.42	2.25069
132	32.40	96.36	56.53	1.92096	32.40	96.36	56.53	2.26809
133	32.40	94.47	54.65	1.91663	32.40	94.47	54.65	2.26590
134	32.40	92.58	52.76	1.91044	32.40	92.58	52.76	2.26701
135	32.40	90.69	50.88	1.91188	32.40	90.69	50.88	2.27963
136	32.40	88.80	49.00	1.92223	32.40	88.80	49.00	2.29782
137	32.40	86.91	47.12	1.94016	32.40	86.91	47.12	2.32093
138	32.40	85.02	45.23	1.94756	32.40	85.02	45.23	2.33763
139	32.40	83.13	43.35	1.95569	32.40	83.13	43.35	2.34229
140	32.40	81.24	41.47	1.96438	32.40	81.24	41.47	2.35276
141	32.40	79.35	39.60	1.94415	32.40	79.35	39.60	2.32485
142	32.40	77.46	37.72	1.95166	32.40	77.46	37.72	2.32152
143	32.40	75.57	35.84	1.95962	32.40	75.57	35.84	2.31622
144	32.40	73.68	33.97	1.93019	32.40	73.68	33.97	2.22324
145	32.40	71.79	32.09	1.93487	32.40	71.79	32.09	2.19041
146	32.40	69.90	30.22	1.92571	32.40	69.90	30.22	2.14457
147	32.40	68.01	28.35	1.86866	32.40	68.01	28.35	2.00315
148	34.61	105.81	66.14	1.95740	34.61	105.81	66.14	2.25421
149	34.61	103.92	64.26	1.96523	34.61	103.92	64.26	2.27162
150	34.61	102.03	62.38	1.97260	34.61	102.03	62.38	2.28274
151	34.61	100.14	60.50	1.97939	34.61	100.14	60.50	2.30032
152	34.61	98.25	58.62	1.98545	34.61	98.25	64.90	2.28528
153	34.61	96.36	56.75	1.99063	34.61	96.36	62.33	2.28462
154	34.61	94.47	54.87	1.99463	34.61	94.47	60.62	2.30620
155	34.61	92.58	52.99	1.99747	34.61	92.58	58.93	2.32475
156	34.61	90.69	51.12	1.99919	34.61	90.69	57.25	2.34538
157	34.61	88.80	49.25	2.00920	34.61	88.80	49.25	2.36493
158	34.61	86.91	47.37	2.01540	34.61	86.91	47.37	2.38118
159	34.61	85.02	45.50	2.03150	34.61	85.02	45.50	2.40291
160	34.61	83.13	43.63	2.04907	34.61	83.13	43.63	2.43256
161	34.61	81.24	41.77	2.06869	34.61	81.24	42.13	2.45936
162	34.61	79.35	39.90	2.08889	34.61	79.35	39.90	2.46879
163	34.61	77.46	38.04	2.10497	34.61	77.46	38.04	2.48211
164	34.61	75.57	36.18	2.12331	34.61	75.57	36.18	2.49096
165	34.61	73.68	34.32	2.14418	34.61	73.68	34.32	2.49401
166	34.61	71.79	32.47	2.13281	34.61	71.79	32.47	2.47384

WITHOUT REINFORCEMENT					WITH REINFORCEMENT			
	X	Y			X	Y		
167	34.61	69.90	30.62	2.15530	34.61	69.90	30.62	2.46938
168	34.61	68.01	28.78	2.18060	34.61	68.01	28.78	2.40850
169	36.82	105.81	61.19	5.58362	36.82	105.81	61.19	5.95003
170	36.82	103.92	64.53	1.97278	36.82	103.92	64.53	2.26196
171	36.82	102.03	62.65	1.98423	36.82	102.03	62.65	2.28337
172	36.82	100.14	60.78	1.99562	36.82	100.14	60.78	2.29886
173	36.82	98.25	58.91	2.01210	36.82	98.25	63.32	2.23010
174	36.82	96.36	57.05	2.02014	36.82	96.36	61.58	2.25216
175	36.82	94.47	55.18	2.02771	36.82	94.47	59.86	2.27733
176	36.82	92.58	53.31	2.03471	36.82	92.58	58.14	2.29624
177	36.82	90.69	51.45	2.04105	36.82	90.69	56.44	2.32091
178	36.82	88.80	49.59	2.04673	36.82	88.80	54.75	2.34209
179	36.82	86.91	47.73	2.05165	36.82	86.91	53.07	2.36573
180	36.82	85.02	45.88	2.06546	36.82	85.02	51.41	2.39101
181	36.82	83.13	44.02	2.07618	36.82	83.13	49.76	2.41101
182	36.82	81.24	42.17	2.09596	36.82	81.24	48.13	2.44056
183	36.82	79.35	40.33	2.11841	36.82	79.35	46.52	2.48039
184	36.82	77.46	38.48	2.14399	36.82	77.46	44.94	2.52532
185	36.82	75.57	36.65	2.17291	36.82	75.57	43.37	2.54681
186	36.82	73.68	34.82	2.20639	36.82	73.68	35.38	2.56893
187	36.82	71.79	33.58	2.23862	36.82	71.79	33.58	2.58791
188	36.82	69.90	31.80	2.27556	36.82	69.90	31.80	2.61432
189	36.82	68.01	29.37	2.28891	36.82	68.01	29.37	2.60611
190	39.03	105.81	61.48	5.18652	39.03	105.81	61.48	5.52610
191	39.03	103.92	59.61	5.33973	39.03	103.92	59.61	5.69357
192	39.03	102.03	57.74	5.49020	39.03	102.03	57.74	5.85393
193	39.03	100.14	61.14	2.01502	39.03	100.14	61.14	2.29948
194	39.03	98.25	59.29	2.02837	39.03	98.25	59.29	2.32266
195	39.03	96.36	57.43	2.04198	39.03	96.36	60.88	2.23125
196	39.03	94.47	55.58	2.05580	39.03	94.47	59.14	2.25882
197	39.03	92.58	53.72	2.06979	39.03	92.58	57.40	2.27730
198	39.03	90.69	51.88	2.08400	39.03	90.69	55.68	2.29737
199	39.03	88.80	50.03	2.09370	39.03	88.80	53.96	2.31927
200	39.03	86.91	48.19	2.10336	39.03	86.91	52.26	2.35409
201	39.03	85.02	46.35	2.11311	39.03	85.02	50.57	2.37990
202	39.03	83.13	44.52	2.12307	39.03	83.13	48.89	2.40816
203	39.03	81.24	42.69	2.14312	39.03	81.24	47.23	2.42116
204	39.03	79.35	41.45	2.17089	39.03	79.35	45.59	2.45093
205	39.03	77.46	39.05	2.18722	39.03	77.46	43.97	2.48709
206	39.03	75.57	37.24	2.21705	39.03	75.57	42.37	2.54482
207	39.03	73.68	35.44	2.25221	39.03	73.68	40.80	2.61098
208	39.03	71.79	33.65	2.29380	39.03	71.79	39.26	2.61582

WITHOUT REINFORCEMENT					WITH REINFORCEMENT			
	X	Y			X	Y		
209	39.03	69.90	31.87	2.34296	39.03	69.90	37.74	2.69096
210	39.03	68.01	30.10	2.40236	39.03	68.01	30.10	2.75872
211	41.24	105.81	56.57	15.91899	41.24	105.81	56.57	16.31378
212	41.24	103.92	59.98	4.98307	41.24	103.92	59.98	5.30812
213	41.24	102.03	58.13	5.12517	41.24	102.03	58.13	5.46292
214	41.24	100.14	56.27	5.27499	41.24	100.14	56.27	5.62614
215	41.24	98.25	54.42	5.43300	41.24	98.25	54.42	5.79755
216	41.24	96.36	57.89	2.12277	41.24	96.36	58.94	2.38129
217	41.24	94.47	56.06	2.12703	41.24	94.47	58.46	2.24373
218	41.24	92.58	54.22	2.13567	41.24	92.58	56.71	2.27062
219	41.24	90.69	52.39	2.14966	41.24	90.69	54.96	2.30412
220	41.24	88.80	50.56	2.16415	41.24	88.80	53.22	2.32092
221	41.24	86.91	48.74	2.17918	41.24	86.91	51.49	2.34610
222	41.24	85.02	46.93	2.18340	41.24	85.02	49.78	2.37290
223	41.24	83.13	45.12	2.18725	41.24	83.13	48.08	2.40159
224	41.24	81.24	43.31	2.20310	41.24	81.24	46.39	2.43806
225	41.24	79.35	41.52	2.22063	41.24	79.35	44.72	2.47376
226	41.24	77.46	39.73	2.25027	41.24	77.46	43.06	2.47855
227	41.24	75.57	37.95	2.29458	41.24	75.57	41.43	2.51640
228	41.24	73.68	36.97	2.33714	41.24	73.68	39.82	2.57330
229	41.24	71.79	35.25	2.38258	41.24	71.79	38.23	2.65142
230	41.24	69.90	33.56	2.44598	41.24	69.90	37.87	2.73855
231	41.24	68.01	30.98	2.47283	41.24	68.01	35.15	2.74710
232	43.45	105.81	56.60	6.12525	43.45	105.81	56.60	6.52741
233	43.45	103.92	54.74	6.33164	43.45	103.92	54.74	6.75122
234	43.45	102.03	52.88	6.54746	43.45	102.03	52.88	6.98510
235	43.45	100.14	56.76	4.94895	43.45	100.14	56.76	5.27117
236	43.45	98.25	54.92	5.09015	43.45	98.25	54.92	5.42408
237	43.45	96.36	53.09	5.24009	43.45	96.36	53.09	5.58616
238	43.45	94.47	56.62	2.19190	43.45	94.47	56.62	2.41780
239	43.45	92.58	55.40	2.21305	43.45	92.58	56.06	2.27666
240	43.45	90.69	52.99	2.22494	43.45	90.69	55.04	2.30195
241	43.45	88.80	51.19	2.24461	43.45	88.80	53.31	2.33142
242	43.45	86.91	49.39	2.26560	43.45	86.91	50.78	2.35368
243	43.45	85.02	47.60	2.28820	43.45	85.02	49.04	2.38273
244	43.45	83.13	45.81	2.31270	43.45	83.13	47.31	2.42525
245	43.45	81.24	44.04	2.33944	43.45	81.24	45.60	2.46043
246	43.45	79.35	42.27	2.36901	43.45	79.35	44.82	2.49749
247	43.45	77.46	40.52	2.40853	43.45	77.46	42.21	2.53948
248	43.45	75.57	38.78	2.40933	43.45	75.57	40.54	2.59280
249	43.45	73.68	37.05	2.45083	43.45	73.68	38.89	2.58978
250	43.45	71.79	35.35	2.51924	43.45	71.79	37.27	2.64748

WITHOUT REINFORCEMENT					WITH REINFORCEMENT			
	X	Y			X	Y		
251	43.45	69.90	34.62	2.58639	43.45	69.90	34.62	2.67393
252	43.45	68.01	33.00	2.67191	43.45	68.01	33.00	2.76234
253	45.66	105.81	56.33	2.00487	45.66	105.81	56.33	2.38175
254	45.66	103.92	54.46	2.01413	45.66	103.92	54.46	2.40819
255	45.66	102.03	52.59	2.02235	45.66	102.03	52.59	2.43440
256	45.66	100.14	50.72	2.02921	45.66	100.14	50.72	2.46004
257	45.66	98.25	48.85	2.05292	45.66	98.25	48.85	2.49749
258	45.66	96.36	46.99	2.05220	45.66	96.36	46.99	2.51485
259	45.66	94.47	45.12	2.04871	45.66	94.47	45.12	2.52969
260	45.66	92.58	43.26	2.04198	45.66	92.58	43.26	2.54133
261	45.66	90.69	41.40	2.03160	45.66	90.69	53.68	2.31982
262	45.66	88.80	39.55	2.01733	45.66	88.80	52.61	2.33686
263	45.66	86.91	37.70	2.01626	45.66	86.91	52.54	2.37580
264	45.66	85.02	35.85	2.02457	45.66	85.02	48.36	2.41333
265	45.66	83.13	34.00	2.03109	45.66	83.13	46.61	2.44975
266	45.66	81.24	32.17	2.03864	45.66	81.24	44.86	2.48873
267	45.66	79.35	30.33	2.04736	45.66	79.35	43.13	2.53241
268	45.66	77.46	28.51	2.05738	45.66	77.46	41.41	2.59244
269	45.66	75.57	26.69	2.06424	45.66	75.57	40.64	2.62362
270	45.66	73.68	24.89	2.05785	45.66	73.68	24.89	2.65963
271	45.66	71.79	23.10	2.05192	45.66	71.79	23.10	2.66672
272	45.66	69.90	21.32	2.04643	45.66	69.90	21.32	2.66158
273	45.66	68.01	19.57	2.04101	45.66	68.01	19.57	2.61889
274	47.87	105.81	53.84	19.55817	47.87	105.81	53.84	19.93113
275	47.87	103.92	54.24	2.03150	47.87	103.92	54.24	2.40151
276	47.87	102.03	52.36	2.05757	47.87	102.03	53.85	2.43365
277	47.87	100.14	50.48	2.06787	47.87	100.14	52.02	2.46475
278	47.87	98.25	48.61	2.07715	47.87	98.25	50.20	2.49241
279	47.87	96.36	46.73	2.08470	47.87	96.36	48.39	2.52075
280	47.87	94.47	44.86	2.09048	47.87	94.47	44.86	2.54944
281	47.87	92.58	42.98	2.09404	47.87	92.58	42.98	2.57301
282	47.87	90.69	41.11	2.09488	47.87	90.69	41.11	2.59415
283	47.87	88.80	39.24	2.09250	47.87	88.80	39.24	2.61203
284	47.87	86.91	37.37	2.10685	47.87	86.91	50.94	2.40306
285	47.87	85.02	35.51	2.09148	47.87	85.02	49.21	2.45235
286	47.87	83.13	33.65	2.09116	47.87	83.13	48.36	2.47873
287	47.87	81.24	31.79	2.10876	47.87	81.24	46.68	2.52750
288	47.87	79.35	29.93	2.12892	47.87	79.35	45.02	2.58362
289	47.87	77.46	28.08	2.15205	47.87	77.46	44.42	2.62847
290	47.87	75.57	26.24	2.16292	47.87	75.57	40.74	2.69761
291	47.87	73.68	24.40	2.17219	47.87	73.68	40.16	2.73562
292	47.87	71.79	22.57	2.18378	47.87	71.79	38.59	2.81913

WITHOUT REINFORCEMENT					WITH REINFORCEMENT			
	X	Y			X	Y		
293	47.87	69.90	20.75	2.19797	47.87	69.90	20.75	2.84935
294	47.87	68.01	18.94	2.21497	47.87	68.01	18.94	2.85270
295	47.87	68.01	18.94	10000.00000	47.87	68.01	18.94	10000.00000
296	50.08	103.92	52.08	18.35053	50.08	103.92	52.08	18.69635
297	50.08	102.03	50.20	19.33301	50.08	102.03	50.20	19.69813
298	50.08	100.14	50.51	2.10386	50.08	100.14	50.51	2.47782
299	50.08	98.25	48.63	2.12130	50.08	98.25	50.86	2.47465
300	50.08	96.36	46.76	2.13855	50.08	96.36	49.07	2.50198
301	50.08	94.47	44.88	2.15549	50.08	94.47	47.29	2.53452
302	50.08	92.58	45.52	2.18007	50.08	92.58	45.52	2.56945
303	50.08	90.69	41.14	2.19156	50.08	90.69	43.75	2.60703
304	50.08	88.80	39.27	2.19983	50.08	88.80	42.00	2.64482
305	50.08	86.91	37.41	2.20551	50.08	86.91	40.26	2.66962
306	50.08	85.02	35.54	2.20864	50.08	85.02	38.54	2.70713
307	50.08	83.13	33.68	2.20941	50.08	83.13	48.45	2.52811
308	50.08	81.24	31.83	2.22772	50.08	81.24	46.78	2.58948
309	50.08	79.35	30.44	2.25791	50.08	79.35	46.13	2.63127
310	50.08	77.46	28.13	2.27713	50.08	77.46	44.53	2.69576
311	50.08	75.57	26.28	2.31079	50.08	75.57	44.11	2.75706
312	50.08	73.68	24.45	2.35188	50.08	73.68	40.27	2.81967
313	50.08	71.79	22.62	2.40255	50.08	71.79	38.71	2.91147
314	50.08	69.90	20.81	2.46583	50.08	69.90	38.39	2.96939
315	50.08	68.01	19.01	2.54611	50.08	68.01	35.67	3.16131
316	50.08	68.01	19.01	10000.00000	50.08	68.01	35.67	10000.00000
317	50.08	68.01	19.01	10000.00000	50.08	68.01	35.67	10000.00000
318	50.08	68.01	19.01	10000.00000	50.08	68.01	35.67	10000.00000
319	52.29	100.14	48.55	17.94859	52.29	100.14	48.55	18.29986
320	52.29	98.25	46.68	18.90195	52.29	98.25	46.68	19.27253
321	52.29	96.36	47.96	2.17704	52.29	96.36	47.96	2.53738
322	52.29	94.47	47.36	2.18633	52.29	94.47	47.36	2.53505
323	52.29	92.58	46.34	2.21204	52.29	92.58	46.34	2.56450
324	52.29	90.69	43.13	2.23768	52.29	90.69	44.61	2.60202
325	52.29	88.80	42.08	2.26102	52.29	88.80	42.89	2.65396
326	52.29	86.91	40.34	2.28566	52.29	86.91	40.34	2.69611
327	52.29	85.02	38.62	2.31382	52.29	85.02	38.62	2.74182
328	52.29	83.13	36.08	2.33376	52.29	83.13	37.84	2.77883
329	52.29	81.24	34.35	2.35839	52.29	81.24	36.20	2.82606
330	52.29	79.35	31.82	2.37954	52.29	79.35	46.24	2.70593
331	52.29	77.46	30.08	2.39916	52.29	77.46	45.76	2.75555
332	52.29	75.57	28.37	2.44314	52.29	75.57	43.07	2.87614
333	52.29	73.68	25.82	2.50528	52.29	73.68	41.53	2.98454
334	52.29	71.79	26.06	2.56544	52.29	71.79	40.01	2.98071

WITHOUT REINFORCEMENT					WITH REINFORCEMENT			
	X	Y			X	Y		
335	52.29	69.90	25.72	2.65141	52.29	69.90	38.52	3.09141
336	52.29	68.01	21.80	2.72690	52.29	68.01	24.28	3.36586
337	52.29	68.01	21.80	10000.00000	52.29	68.01	24.28	10000.00000
338	52.29	68.01	21.80	10000.00000	52.29	68.01	24.28	10000.00000
339	52.29	68.01	21.80	10000.00000	52.29	68.01	24.28	10000.00000
340	52.29	68.01	21.80	10000.00000	52.29	68.01	24.28	10000.00000
341	52.29	68.01	21.80	10000.00000	52.29	68.01	24.28	10000.00000
342	54.50	96.36	45.17	17.62542	54.50	96.36	45.17	18.01543
343	54.50	94.47	45.69	2.25724	54.50	94.47	45.69	2.62010
344	54.50	92.58	44.98	2.25537	54.50	92.58	45.67	2.61036
345	54.50	90.69	43.91	2.27419	54.50	90.69	44.70	2.62806
346	54.50	88.80	42.16	2.30621	54.50	88.80	42.16	2.68200
347	54.50	86.91	40.43	2.34252	54.50	86.91	40.43	2.73425
348	54.50	85.02	39.61	2.37584	54.50	85.02	39.61	2.76430
349	54.50	83.13	36.16	2.41606	54.50	83.13	37.95	2.82830
350	54.50	81.24	34.44	2.45900	54.50	81.24	36.31	2.89488
351	54.50	79.35	33.67	2.48988	54.50	79.35	33.67	2.94628
352	54.50	77.46	32.04	2.54185	54.50	77.46	32.04	3.01830
353	54.50	75.57	27.64	2.59239	54.50	75.57	31.56	3.07068
354	54.50	73.68	27.77	2.62445	54.50	73.68	27.77	3.15448
355	54.50	71.79	26.17	2.71780	54.50	71.79	28.58	3.27920
356	54.50	69.90	25.85	2.79497	54.50	69.90	25.85	3.34244
357	54.50	68.01	21.92	2.96093	54.50	68.01	25.82	3.48999
358	54.50	68.01	21.92	10000.00000	54.50	68.01	25.82	10000.00000
359	54.50	68.01	21.92	10000.00000	54.50	68.01	25.82	10000.00000
360	54.50	68.01	21.92	10000.00000	54.50	68.01	25.82	10000.00000
361	54.50	68.01	21.92	10000.00000	54.50	68.01	25.82	10000.00000
362	54.50	68.01	21.92	10000.00000	54.50	68.01	25.82	10000.00000
363	54.50	68.01	21.92	10000.00000	54.50	68.01	25.82	10000.00000
364	54.50	68.01	21.92	10000.00000	54.50	68.01	25.82	10000.00000
365	56.71	92.58	41.97	17.41611	56.71	92.58	41.97	17.79848
366	56.71	90.69	43.27	2.35383	56.71	90.69	43.27	2.71449
367	56.71	88.80	41.49	2.37027	56.71	88.80	41.49	2.73616
368	56.71	86.91	39.73	2.41234	56.71	86.91	41.38	2.78853
369	56.71	85.02	37.98	2.46020	56.71	85.02	39.70	2.85542
370	56.71	83.13	36.25	2.51488	56.71	83.13	38.05	2.92580
371	56.71	81.24	35.43	2.53828	56.71	81.24	35.43	2.96133
372	56.71	79.35	33.77	2.60140	56.71	79.35	33.77	3.04253
373	56.71	77.46	32.14	2.67698	56.71	77.46	32.14	3.14856
374	56.71	75.57	29.50	2.73130	56.71	75.57	29.50	3.23474
375	56.71	73.68	27.88	2.81968	56.71	73.68	31.46	3.32015
376	56.71	71.79	27.46	2.87395	56.71	71.79	31.47	3.37560

WITHOUT REINFORCEMENT					WITH REINFORCEMENT			
	X	Y			X	Y		
377	56.71	69.90	25.99	3.00172	56.71	69.90	27.31	3.51774
378	56.71	68.01	25.97	3.18513	56.71	68.01	27.45	3.62164
379	56.71	68.01	25.97	10000.00000	56.71	68.01	27.45	10000.00000
380	56.71	68.01	25.97	10000.00000	56.71	68.01	27.45	10000.00000
381	56.71	68.01	25.97	10000.00000	56.71	68.01	27.45	10000.00000
382	56.71	68.01	25.97	10000.00000	56.71	68.01	27.45	10000.00000
383	56.71	68.01	25.97	10000.00000	56.71	68.01	27.45	10000.00000
384	56.71	68.01	25.97	10000.00000	56.71	68.01	27.45	10000.00000
385	56.71	68.01	25.97	10000.00000	56.71	68.01	27.45	10000.00000
386	56.71	68.01	25.97	10000.00000	56.71	68.01	27.45	10000.00000
387	58.92	90.69	40.79	16.89929	58.92	90.69	40.79	17.27714
388	58.92	88.80	39.00	17.95268	58.92	88.80	39.00	18.35262
389	58.92	86.91	39.81	2.53506	58.92	86.91	39.81	2.89516
390	58.92	85.02	38.07	2.58695	58.92	85.02	39.80	2.93508
391	58.92	83.13	37.20	2.63130	58.92	83.13	39.18	2.96663
392	58.92	81.24	35.53	2.69899	58.92	81.24	39.96	3.01354
393	58.92	79.35	37.24	2.78316	58.92	79.35	37.24	3.08553
394	58.92	77.46	31.25	2.81695	58.92	77.46	37.08	3.11237
395	58.92	75.57	29.60	2.92324	58.92	75.57	35.70	3.23492
396	58.92	73.68	29.10	3.01435	58.92	73.68	34.38	3.40204
397	58.92	71.79	33.10	3.16576	58.92	71.79	33.10	3.17188
398	58.92	69.90	27.46	3.26843	58.92	69.90	31.89	3.34978
399	58.92	68.01	29.15	3.38598	58.92	68.01	29.15	3.41752
400	58.92	68.01	29.15	10000.00000	58.92	68.01	29.15	10000.00000
401	58.92	68.01	29.15	10000.00000	58.92	68.01	29.15	10000.00000
402	58.92	68.01	29.15	10000.00000	58.92	68.01	29.15	10000.00000
403	58.92	68.01	29.15	10000.00000	58.92	68.01	29.15	10000.00000
404	58.92	68.01	29.15	10000.00000	58.92	68.01	29.15	10000.00000
405	58.92	68.01	29.15	10000.00000	58.92	68.01	29.15	10000.00000
406	58.92	68.01	29.15	10000.00000	58.92	68.01	29.15	10000.00000
407	58.92	68.01	29.15	10000.00000	58.92	68.01	29.15	10000.00000
408	58.92	68.01	29.15	10000.00000	58.92	68.01	29.15	10000.00000
409	58.92	68.01	29.15	10000.00000	58.92	68.01	29.15	10000.00000
410	61.13	86.91	38.05	13.69671	61.13	86.91	38.05	14.07479
411	61.13	85.02	36.32	14.56596	61.13	85.02	36.32	14.96857
412	61.13	83.13	37.30	2.75889	61.13	83.13	37.30	3.11117
413	61.13	81.24	37.71	2.81894	61.13	81.24	37.71	3.12120
414	61.13	79.35	37.37	2.88881	61.13	79.35	37.37	3.15669
415	61.13	77.46	37.22	2.98050	61.13	77.46	38.60	3.07923
416	61.13	75.57	33.17	3.07513	61.13	75.57	37.28	3.08263
417	61.13	73.68	33.10	3.16210	61.13	73.68	36.01	3.24512
418	61.13	71.79	33.26	3.29997	61.13	71.79	33.26	3.29997

WITHOUT REINFORCEMENT					WITH REINFORCEMENT			
	X	Y			X	Y		
419	61.13	69.90	29.03	3.43260	61.13	69.90	33.65	3.45213
420	61.13	68.01	30.92	3.52394	61.13	68.01	30.92	3.52394
421	61.13	68.01	30.92	10000.00000	61.13	68.01	30.92	10000.00000
422	61.13	68.01	30.92	10000.00000	61.13	68.01	30.92	10000.00000
423	61.13	68.01	30.92	10000.00000	61.13	68.01	30.92	10000.00000
424	61.13	68.01	30.92	10000.00000	61.13	68.01	30.92	10000.00000
425	61.13	68.01	30.92	10000.00000	61.13	68.01	30.92	10000.00000
426	61.13	68.01	30.92	10000.00000	61.13	68.01	30.92	10000.00000
427	61.13	68.01	30.92	10000.00000	61.13	68.01	30.92	10000.00000
428	61.13	68.01	30.92	10000.00000	61.13	68.01	30.92	10000.00000
429	61.13	68.01	30.92	10000.00000	61.13	68.01	30.92	10000.00000
430	61.13	68.01	30.92	10000.00000	61.13	68.01	30.92	10000.00000
431	61.13	68.01	30.92	10000.00000	61.13	68.01	30.92	10000.00000
432	61.13	68.01	30.92	10000.00000	61.13	68.01	30.92	10000.00000
433	63.34	83.13	35.63	10.46800	63.34	83.13	35.63	10.83259
434	63.34	81.24	33.99	11.13618	63.34	81.24	33.99	11.53392
435	63.34	79.35	35.15	3.03741	63.34	79.35	35.15	3.35586
436	63.34	77.46	34.78	3.09073	63.34	77.46	34.78	3.37222
437	63.34	75.57	33.30	3.24364	63.34	75.57	36.00	3.44743
438	63.34	73.68	34.68	3.24694	63.34	73.68	36.17	3.37887
439	63.34	71.79	34.96	3.38666	63.34	71.79	34.96	3.38666
440	63.34	69.90	35.45	3.54500	63.34	69.90	35.45	3.54500
441	63.34	68.01	32.74	3.62331	63.34	68.01	32.74	3.62331

WITHOUT REINFORCEMENT				WITH REINFORCEMENT					
				PILES	ANCHOR		NAIL	GEOGRID	
1	0.00	0.00	10000.00	0.00	0.00	0.00	0.00	0.00	10000.00
2	0.00	0.00	10000.00	0.00	0.00	0.00	0.00	0.00	10000.00
3	0.00	0.00	10000.00	0.00	0.00	0.00	0.00	0.00	10000.00
4	0.00	0.00	10000.00	0.00	0.00	0.00	0.00	0.00	10000.00
5	0.00	0.00	10000.00	0.00	0.00	0.00	0.00	0.00	10000.00
6	0.00	0.00	10000.00	0.00	0.00	0.00	0.00	0.00	10000.00
7	0.00	0.00	10000.00	0.00	0.00	0.00	0.00	0.00	10000.00
8	0.00	0.00	10000.00	0.00	0.00	0.00	0.00	0.00	10000.00
9	0.00	0.00	10000.00	0.00	0.00	0.00	0.00	0.00	10000.00
10	0.00	0.00	10000.00	0.00	0.00	0.00	0.00	0.00	10000.00
11	0.00	0.00	10000.00	0.00	0.00	0.00	0.00	0.00	10000.00
12	0.00	0.00	10000.00	0.00	0.00	0.00	0.00	0.00	10000.00
13	0.00	0.00	10000.00	0.00	0.00	0.00	0.00	0.00	10000.00
14	0.00	0.00	10000.00	0.00	0.00	0.00	0.00	0.00	10000.00
15	0.00	0.00	10000.00	0.00	0.00	0.00	0.00	0.00	10000.00
16	0.00	0.00	10000.00	0.00	0.00	0.00	0.00	0.00	10000.00
17	0.00	0.00	10000.00	0.00	0.00	0.00	0.00	0.00	10000.00
18	0.00	0.00	10000.00	0.00	0.00	0.00	0.00	0.00	10000.00
19	0.00	0.00	10000.00	0.00	0.00	0.00	0.00	0.00	10000.00
20	0.00	0.00	10000.00	0.00	0.00	0.00	0.00	0.00	10000.00
21	0.00	0.00	10000.00	0.00	0.00	0.00	0.00	0.00	10000.00
22	34453.46	66958.67	1.94	4172.69	3110.71	4930.25	636.66	0.00	2.32
23	31709.25	61994.87	1.96	3888.07	2990.37	4742.59	753.26	0.00	2.35
24	29630.15	57921.17	1.95	3560.30	2826.21	4554.04	801.90	0.00	2.35
25	27234.11	53461.21	1.96	3345.91	2496.83	4364.57	780.66	0.00	2.37
26	24961.80	49219.46	1.97	2998.07	2330.96	3087.24	756.29	23.95	2.34
27	23035.44	46273.71	2.01	2773.50	2033.78	2942.16	630.01	108.79	2.38
28	21094.60	41834.76	1.98	2466.61	1698.72	2796.14	467.09	188.57	2.34
29	19262.43	38277.34	1.99	2273.22	1675.49	2649.11	400.12	263.22	2.36
30	17532.62	34899.01	1.99	1999.94	1407.42	2500.96	384.47	332.67	2.37
31	15905.24	31708.93	1.99	1787.49	1208.09	1503.06	340.20	396.84	2.32
32	15878.82	33401.56	2.10	1657.66	1139.42	1413.97	254.06	0.00	2.38
33	15834.47	34696.65	2.19	1541.56	1061.57	1326.69	186.86	0.00	2.45
34	16304.46	37652.56	2.31	1432.77	970.42	1241.36	135.95	0.00	2.54
35	14892.20	34767.37	2.33	1236.39	838.31	1137.66	25.32	0.00	2.55
36	15576.58	38463.70	2.47	1136.30	745.02	1053.93	5.10	0.00	2.66
37	14255.65	35758.00	2.51	879.51	487.87	948.40	0.00	0.00	2.67
38	15124.35	40371.36	2.67	813.33	527.20	866.47	0.00	0.00	2.82
39	14241.07	38898.40	2.73	279.55	101.07	346.57	0.00	0.00	2.78
40	13078.26	162622.28	12.43	0.00	0.00	0.00	0.00	0.00	12.43

WITHOUT REINFORCEMENT				WITH REINFORCEMENT					
				PILES		ANCHOR	NAIL	GEOGRID	
41	11731.02	168202.75	14.34	0.00	0.00	0.00	0.00	0.00	14.34
42	11018.51	180794.74	16.41	0.00	0.00	0.00	0.00	0.00	16.41
43	36452.27	69269.56	1.90	4540.04	3490.20	4951.27	383.68	0.00	2.27
44	33787.03	63475.32	1.88	4164.23	3285.54	4763.89	528.82	0.00	2.26
45	31603.41	59946.03	1.90	3873.32	2855.57	4575.64	657.96	0.00	2.28
46	29008.34	55206.11	1.90	3615.45	2757.06	4386.44	722.40	0.00	2.30
47	26547.68	50698.63	1.91	3275.46	2585.20	4196.24	715.79	0.00	2.32
48	24494.61	46846.32	1.91	3054.97	2270.96	4004.95	701.84	37.25	2.32
49	22381.23	42850.07	1.91	2710.63	2107.32	2813.01	624.16	130.01	2.29
50	20385.87	39066.25	1.92	2497.14	1839.75	2666.16	474.89	217.26	2.29
51	18507.63	34872.13	1.88	2183.27	1522.00	2518.20	373.91	298.93	2.26
52	16741.01	31503.89	1.88	1953.42	1467.72	2369.02	334.39	374.91	2.27
53	15085.53	28334.17	1.88	1772.37	1289.48	2218.49	309.59	445.10	2.28
54	14678.35	29017.54	1.98	1569.87	1039.86	2080.76	235.97	132.37	2.32
55	14274.23	29026.12	2.03	1427.67	979.31	1228.79	158.30	0.00	2.30
56	14352.51	30724.10	2.14	1314.86	919.96	1138.82	76.86	0.00	2.38
57	13014.30	27959.99	2.15	1117.28	671.41	1033.40	1.79	0.00	2.37
58	13324.61	30279.35	2.27	965.64	593.09	944.67	0.00	0.00	2.46
59	13799.57	33281.28	2.41	852.38	519.67	858.16	0.00	0.00	2.57
60	12660.66	30839.55	2.44	375.90	191.57	342.06	0.00	0.00	2.51
61	13361.57	34339.91	2.57	297.75	150.58	298.50	0.00	0.00	2.63
62	12207.06	32647.20	2.67	0.00	0.00	0.00	0.00	0.00	2.67
63	13104.45	37232.11	2.84	0.00	0.00	0.00	0.00	0.00	2.84
64	39944.61	75847.86	1.90	4978.23	3837.82	4990.67	0.00	0.00	2.24
65	37330.67	70637.20	1.89	4644.34	3659.45	4804.01	152.43	0.00	2.25
66	34887.02	65703.75	1.88	4308.11	3471.15	4616.49	355.65	0.00	2.25
67	32291.24	60775.48	1.88	4053.23	3061.63	4428.05	481.32	0.00	2.25
68	29562.97	55180.48	1.87	3734.36	2904.78	4238.64	594.03	0.00	2.25
69	27497.05	51834.37	1.89	3417.03	2738.71	4048.16	653.25	0.00	2.28
70	25126.67	47466.33	1.89	3168.43	2394.47	3856.54	632.73	0.00	2.29
71	22885.79	43326.31	1.89	2826.24	2221.62	3663.68	584.85	0.00	2.30
72	20774.06	38794.59	1.87	2583.20	1922.36	3469.48	497.82	0.00	2.28
73	19019.52	36051.12	1.90	2263.88	1590.23	2403.96	355.57	0.00	2.24
74	17229.42	32602.55	1.89	2002.93	1503.89	2254.19	278.72	0.00	2.24
75	15550.46	28800.36	1.85	1788.44	1292.27	2102.97	279.64	27.54	2.21
76	13980.96	25770.45	1.84	1525.26	1071.96	1950.14	247.71	111.65	2.19
77	12518.07	22932.54	1.83	1313.71	915.46	1128.25	115.14	189.47	2.12
78	11754.83	22164.18	1.89	1136.53	744.88	1030.37	31.65	0.00	2.14
79	11565.99	22942.91	1.98	990.56	595.55	934.13	0.00	0.00	2.20
80	11243.41	23109.87	2.06	810.18	531.88	839.72	0.00	0.00	2.25
81	11479.17	24940.62	2.17	603.60	344.87	747.34	0.00	0.00	2.32
82	11869.03	27407.27	2.31	431.51	194.55	657.21	0.00	0.00	2.42

WITHOUT REINFORCEMENT				WITH REINFORCEMENT					
				PILES		ANCHOR	NAIL	GEOGRID	
83	10681.72	25592.02	2.40	0.00	0.00	0.00	0.00	0.00	2.40
84	11265.42	28526.40	2.53	0.00	0.00	0.00	0.00	0.00	2.53
85	43791.83	81925.23	1.87	5413.11	4198.95	5031.56	0.00	0.00	2.21
86	40829.66	76251.74	1.87	5130.74	4052.40	4845.66	0.00	0.00	2.21
87	38049.79	70861.63	1.86	4767.09	3835.88	4658.93	0.00	0.00	2.21
88	35445.68	65747.67	1.85	4465.98	3662.71	4471.31	155.23	0.00	2.21
89	32711.58	60672.66	1.85	4242.34	3270.75	4282.74	330.16	0.00	2.23
90	30649.97	57142.86	1.86	3865.96	3057.15	4093.14	436.42	0.00	2.24
91	28014.49	52390.17	1.87	3565.58	2640.33	3902.44	532.59	0.00	2.25
92	25817.15	48938.67	1.90	3295.43	2523.55	3710.54	585.63	0.00	2.29
93	23550.65	44088.66	1.87	2955.86	2343.09	3517.32	537.37	0.00	2.27
94	21404.43	40084.54	1.87	2702.14	2025.19	3322.68	473.44	0.00	2.27
95	19380.96	36302.23	1.87	2367.70	1670.48	3126.48	385.22	0.00	2.26
96	17480.45	32184.74	1.84	2092.86	1566.77	2141.22	263.29	0.00	2.19
97	15700.15	28853.35	1.84	1833.09	1311.88	1989.31	218.97	0.00	2.18
98	14037.24	25730.43	1.83	1543.70	1064.28	1835.67	220.45	0.00	2.17
99	12491.23	22317.86	1.79	1296.30	875.20	1680.06	147.44	0.00	2.11
100	11364.29	20414.52	1.80	1085.47	739.07	943.35	40.62	0.00	2.04
101	10095.55	17894.92	1.77	861.06	520.15	834.10	0.00	0.00	1.99
102	9927.87	18971.92	1.91	705.31	460.83	740.27	0.00	0.00	2.10
103	9831.14	19794.23	2.01	382.03	179.98	287.08	0.00	0.00	2.10
104	9517.41	20579.12	2.16	0.00	0.00	237.06	0.00	0.00	2.19
105	9815.81	22521.71	2.29	0.00	0.00	0.00	0.00	0.00	2.29
106	48113.90	89669.27	1.86	5859.09	4585.67	5073.98	0.00	0.00	2.19
107	44865.65	83553.76	1.86	5607.01	4453.01	4888.89	0.00	0.00	2.20
108	41801.36	77718.57	1.86	5231.05	4217.92	4703.00	0.00	0.00	2.20
109	38918.80	72169.85	1.85	4902.99	4015.82	4516.26	0.00	0.00	2.20
110	36214.55	66909.59	1.85	4631.58	3556.71	4328.60	7.02	0.00	2.19
111	33679.31	61929.27	1.84	4362.80	3421.20	4139.94	162.73	0.00	2.20
112	31026.03	56999.65	1.84	4000.60	3206.13	3950.22	306.62	0.00	2.21
113	28850.84	53400.16	1.85	3710.94	2787.76	3759.35	393.43	0.00	2.22
114	26317.97	48800.64	1.85	3432.06	2654.35	3567.21	472.91	0.00	2.24
115	23918.50	44433.39	1.86	3088.98	2462.23	3373.70	513.79	0.00	2.25
116	21653.66	40303.98	1.86	2842.91	2138.76	3178.69	420.61	0.00	2.26
117	19523.43	35857.38	1.84	2486.10	1947.86	2982.01	358.99	0.00	2.23
118	17525.03	32210.96	1.84	2216.65	1649.46	2783.48	274.91	0.00	2.23
119	16030.78	29725.54	1.85	1905.15	1345.91	2582.91	188.42	0.00	2.23
120	14351.60	26040.83	1.81	1606.19	1082.03	1723.35	187.89	0.00	2.13
121	12781.23	23061.82	1.80	1333.42	986.85	1566.75	167.14	0.00	2.12
122	11321.73	20283.79	1.79	1077.85	692.98	1407.69	72.37	0.00	2.08
123	9976.17	17269.75	1.73	858.11	570.87	755.75	1.13	0.00	1.95
124	8740.80	14904.44	1.71	604.93	379.23	642.76	0.00	0.00	1.89

WITHOUT REINFORCEMENT				WITH REINFORCEMENT					
				PILES	ANCHOR		NAIL	GEOGRID	
125	8586.56	16172.38	1.88	286.88	134.20	235.83	0.00	0.00	1.96
126	8040.54	16312.60	2.03	0.00	0.00	0.00	0.00	0.00	2.03
127	53592.83	101790.49	1.90	6342.37	5342.00	5126.28	0.00	0.00	2.21
128	49925.25	95028.30	1.90	6091.20	4821.59	4942.24	0.00	0.00	2.22
129	46457.11	88569.67	1.91	5817.39	4660.19	4757.44	0.00	0.00	2.23
130	43186.01	82416.86	1.91	5447.34	4418.52	4571.83	0.00	0.00	2.24
131	40107.13	76565.70	1.91	5114.70	4202.92	4385.35	0.00	0.00	2.25
132	37573.03	72176.12	1.92	4825.74	4019.24	4197.94	0.00	0.00	2.27
133	34926.35	66941.04	1.92	4590.73	3596.74	4009.53	1.57	0.00	2.27
134	32434.87	61965.01	1.91	4230.50	3375.97	3820.02	138.76	0.00	2.27
135	29829.23	57029.95	1.91	3900.10	3172.58	3629.33	267.71	0.00	2.28
136	27136.70	52163.07	1.92	3637.68	2780.64	3437.34	336.61	0.00	2.30
137	25096.10	48690.37	1.94	3312.80	2599.43	3243.95	399.68	0.00	2.32
138	22780.41	44366.26	1.95	2992.42	2413.18	3048.99	431.40	0.00	2.34
139	20594.97	40277.47	1.96	2719.39	2072.89	2852.32	317.33	0.00	2.34
140	18532.09	36404.07	1.96	2381.37	1884.80	2653.72	277.65	0.00	2.35
141	16590.68	32254.77	1.94	2090.26	1572.92	2452.98	199.89	0.00	2.32
142	14776.84	28839.33	1.95	1796.43	1284.79	2249.81	134.36	0.00	2.32
143	13085.78	25643.19	1.96	1477.37	1008.90	2043.86	136.22	0.00	2.32
144	11517.09	22230.12	1.93	1183.49	781.71	1306.41	103.54	0.00	2.22
145	10501.58	20319.16	1.93	913.40	599.69	1143.59	26.98	0.00	2.19
146	9220.84	17756.69	1.93	656.51	384.48	977.07	0.00	0.00	2.14
147	8043.77	15031.03	1.87	394.88	232.01	454.98	0.00	0.00	2.00
148	59873.29	117196.00	1.96	6834.83	5754.46	5181.79	0.00	0.00	2.25
149	55866.24	109790.14	1.97	6558.16	5559.46	4998.88	0.00	0.00	2.27
150	52064.55	102702.73	1.97	6305.40	5026.26	4815.26	0.00	0.00	2.28
151	48463.79	95928.69	1.98	6052.48	4869.94	4630.88	0.00	0.00	2.30
152	79675.73	178041.07	2.23	0.00	0.00	4040.54	0.00	0.00	2.29
153	70526.69	156632.98	2.22	0.00	0.00	4493.68	0.00	0.00	2.28
154	66704.45	149448.55	2.24	0.00	0.00	4385.27	0.00	0.00	2.31
155	63007.63	142272.41	2.26	0.00	0.00	4204.79	0.00	0.00	2.32
156	59414.84	135326.68	2.28	0.00	0.00	4023.69	0.00	0.00	2.35
157	31160.66	62608.12	2.01	4140.34	3323.83	3505.15	115.40	0.00	2.36
158	28618.63	57678.04	2.02	3813.08	3112.48	3313.52	228.90	0.00	2.38
159	26001.59	52822.16	2.03	3541.92	2714.81	3120.44	280.26	0.00	2.40
160	23516.24	48186.35	2.05	3231.05	2534.54	2925.77	326.89	0.00	2.43
161	22619.91	47120.74	2.08	3050.15	2373.22	2748.18	338.26	0.00	2.46
162	19494.13	40721.05	2.09	2644.34	2004.31	2530.94	226.30	0.00	2.47
163	17512.48	36863.26	2.10	2283.71	1792.20	2330.31	198.39	0.00	2.48
164	15650.16	33230.18	2.12	2006.88	1491.36	2127.17	128.31	0.00	2.49
165	13904.19	29813.02	2.14	1676.34	1178.03	1921.13	88.70	0.00	2.49
166	12265.13	26159.15	2.13	1360.53	1021.99	1711.73	88.63	0.00	2.47

WITHOUT REINFORCEMENT				WITH REINFORCEMENT					
				PILES	ANCHOR		NAIL	GEOGRID	
167	10744.09	23156.71	2.16	1054.70	769.76	1498.36	51.75	0.00	2.47
168	9338.03	20362.52	2.18	763.31	482.26	880.31	2.27	0.00	2.41
169	37562.25	209733.45	5.58	4977.18	3851.23	4934.73	0.00	0.00	5.95
170	62086.28	122482.64	1.97	6984.71	5910.69	5058.88	0.00	0.00	2.26
171	57834.27	114756.41	1.98	6714.20	5710.00	4876.52	0.00	0.00	2.28
172	53797.89	107359.94	2.00	6457.50	5163.15	4693.46	0.00	0.00	2.30
173	74876.91	162813.17	2.17	0.00	0.00	4169.68	0.00	0.00	2.23
174	70446.99	154474.32	2.19	0.00	0.00	4183.25	0.00	0.00	2.25
175	67073.85	148600.53	2.22	0.00	0.00	4149.04	0.00	0.00	2.28
176	63238.77	141103.23	2.23	0.00	0.00	4107.86	0.00	0.00	2.30
177	59536.84	134151.40	2.25	0.00	0.00	4028.39	0.00	0.00	2.32
178	55946.45	127177.97	2.27	0.00	0.00	3853.39	0.00	0.00	2.34
179	52480.12	120482.55	2.30	0.00	0.00	3671.14	0.00	0.00	2.37
180	50057.30	116199.59	2.32	0.00	0.00	3488.12	0.00	0.00	2.39
181	47123.99	110312.04	2.34	0.00	0.00	3304.27	0.00	0.00	2.41
182	44233.44	104834.74	2.37	0.00	0.00	3119.52	0.00	0.00	2.44
183	41413.29	99787.23	2.41	0.00	0.00	2933.80	0.00	0.00	2.48
184	38445.33	94322.49	2.45	0.00	0.00	2747.01	17.12	0.00	2.53
185	36953.61	91476.99	2.48	0.00	0.00	2559.06	77.73	0.00	2.55
186	17658.73	38987.14	2.21	2362.67	1853.73	2041.55	118.93	0.00	2.57
187	15779.02	35323.29	2.24	2069.08	1520.55	1837.29	84.51	0.00	2.59
188	14008.22	31876.58	2.28	1742.15	1326.96	1629.78	46.42	0.00	2.61
189	11453.11	26215.12	2.29	1294.58	909.55	1384.88	43.98	0.00	2.61
190	43011.86	223082.07	5.19	5411.69	4202.65	4991.26	0.00	0.00	5.53
191	39831.85	212691.28	5.34	5211.36	4069.69	4812.99	0.00	0.00	5.69
192	37172.02	204081.66	5.49	4976.94	3909.64	4634.14	0.00	0.00	5.85
193	60482.19	121872.81	2.02	6729.04	5715.89	4759.62	0.00	0.00	2.30
194	56290.59	114178.23	2.03	6472.21	5515.97	4577.28	0.00	0.00	2.32
195	71218.79	155187.90	2.18	0.00	0.00	3719.16	0.00	0.00	2.23
196	66776.36	147072.66	2.20	0.00	0.00	3763.42	0.00	0.00	2.26
197	63478.37	140764.27	2.22	0.00	0.00	3795.24	0.00	0.00	2.28
198	59639.93	133236.55	2.23	0.00	0.00	3778.28	0.00	0.00	2.30
199	55941.71	126009.58	2.25	0.00	0.00	3734.23	0.00	0.00	2.32
200	52361.53	119621.97	2.28	0.00	0.00	3642.02	0.00	0.00	2.35
201	48914.18	112911.64	2.31	0.00	0.00	3498.98	0.00	0.00	2.38
202	45605.18	106507.25	2.34	0.00	0.00	3317.15	0.00	0.00	2.41
203	43614.30	102464.73	2.35	0.00	0.00	3132.63	0.00	0.00	2.42
204	40766.20	96968.08	2.38	0.00	0.00	2947.11	0.00	0.00	2.45
205	37992.53	91730.35	2.41	0.00	0.00	2760.52	0.00	0.00	2.49
206	35091.28	86708.48	2.47	0.00	0.00	2572.75	19.72	0.00	2.54
207	32074.04	81292.20	2.53	0.00	0.00	2383.67	68.87	0.00	2.61
208	30918.40	78597.37	2.54	0.00	0.00	2193.16	86.38	0.00	2.62

WITHOUT REINFORCEMENT				WITH REINFORCEMENT					
				PILES		ANCHOR	NAIL	GEOGRID	
209	28278.28	73983.97	2.62	0.00	0.00	2001.03	110.59	0.00	2.69
210	13185.79	31676.96	2.40	1841.18	1328.94	1495.31	33.52	0.00	2.76
211	25374.84	403941.81	15.92	3694.73	2811.52	3511.47	0.00	0.00	16.31
212	45961.20	229027.75	4.98	5647.69	4417.40	4874.65	0.00	0.00	5.31
213	42612.20	218394.91	5.13	5433.24	4261.56	4697.30	0.00	0.00	5.46
214	39443.19	208062.62	5.27	5222.36	4108.38	4519.40	0.00	0.00	5.63
215	36447.66	198020.20	5.43	5000.07	3946.07	4340.92	0.00	0.00	5.80
216	64184.81	138132.48	2.15	5760.56	4826.51	4122.98	0.00	0.00	2.38
217	67411.56	148071.14	2.20	0.00	0.00	3181.91	0.00	0.00	2.24
218	62965.00	139660.76	2.22	0.00	0.00	3308.54	0.00	0.00	2.27
219	58708.14	131892.02	2.25	0.00	0.00	3378.48	0.00	0.00	2.30
220	55909.33	126353.12	2.26	0.00	0.00	3408.21	0.00	0.00	2.32
221	52223.47	119101.98	2.28	0.00	0.00	3419.76	0.00	0.00	2.35
222	48661.51	112096.69	2.30	0.00	0.00	3372.02	0.00	0.00	2.37
223	45241.50	105389.92	2.33	0.00	0.00	3261.75	0.00	0.00	2.40
224	41968.41	99204.01	2.36	0.00	0.00	3117.55	0.00	0.00	2.44
225	38840.78	93121.27	2.40	0.00	0.00	2961.36	0.00	0.00	2.47
226	37204.75	89438.65	2.40	0.00	0.00	2775.00	0.00	0.00	2.48
227	34485.42	84191.71	2.44	0.00	0.00	2587.45	0.00	0.00	2.52
228	31656.01	79039.44	2.50	0.00	0.00	2398.57	22.53	0.00	2.57
229	28734.94	73920.49	2.57	0.00	0.00	2208.22	59.69	0.00	2.65
230	29838.02	79566.57	2.67	0.00	0.00	2076.71	69.67	0.00	2.74
231	25046.40	66857.72	2.67	0.00	0.00	1822.38	124.81	0.00	2.75
232	29146.86	178531.90	6.13	3892.55	3072.84	4756.20	0.00	0.00	6.53
233	26830.54	169881.28	6.33	3725.64	2948.97	4582.92	0.00	0.00	6.75
234	24667.83	161511.52	6.55	3560.36	2826.21	4409.24	0.00	0.00	6.99
235	45535.30	225352.16	4.95	5652.03	4432.07	4588.18	0.00	0.00	5.27
236	42195.19	214779.90	5.09	5424.96	4253.77	4411.45	0.00	0.00	5.42
237	39033.04	204536.70	5.24	5198.27	4075.75	4234.17	0.00	0.00	5.59
238	60815.67	133301.99	2.19	5517.40	4574.22	3646.36	0.00	0.00	2.42
239	63457.59	141807.56	2.23	0.00	0.00	2663.79	0.00	0.00	2.28
240	63626.76	144298.79	2.27	0.00	0.00	2166.62	0.00	0.00	2.30
241	59389.44	136153.07	2.29	0.00	0.00	2308.48	0.00	0.00	2.33
242	52051.04	119496.96	2.30	0.00	0.00	3014.31	0.00	0.00	2.35
243	48384.67	112246.43	2.32	0.00	0.00	3041.12	0.00	0.00	2.38
244	44848.27	105711.73	2.36	0.00	0.00	3056.37	0.00	0.00	2.43
245	41464.23	98999.73	2.39	0.00	0.00	3020.17	0.00	0.00	2.46
246	42155.69	102621.22	2.43	0.00	0.00	2662.21	0.00	0.00	2.50
247	35160.50	86548.05	2.46	0.00	0.00	2741.42	0.00	0.00	2.54
248	32202.87	80903.42	2.51	0.00	0.00	2592.16	0.00	0.00	2.59
249	30896.23	77599.73	2.51	0.00	0.00	2414.62	0.00	0.00	2.59
250	28149.96	72277.61	2.57	0.00	0.00	2224.50	24.45	0.00	2.65

WITHOUT REINFORCEMENT				WITH REINFORCEMENT					
				PILES		ANCHOR	NAIL	GEOGRID	
251	23497.79	60774.52	2.59	0.00	0.00	1979.28	77.61	0.00	2.67
252	21024.64	56175.90	2.67	0.00	0.00	1783.22	118.09	0.00	2.76
253	31634.53	63423.05	2.00	4042.06	3112.93	4767.53	0.00	0.00	2.38
254	29043.60	58497.48	2.01	3866.71	2983.52	4594.78	0.00	0.00	2.41
255	26619.32	53833.47	2.02	3692.32	2854.73	4421.63	0.00	0.00	2.43
256	24356.92	49425.19	2.03	3519.00	2726.63	4248.06	0.00	0.00	2.46
257	22539.05	46270.77	2.05	3346.88	2599.32	4074.03	0.00	0.00	2.50
258	20638.66	42354.57	2.05	3176.09	2472.88	3899.49	0.00	0.00	2.51
259	18875.40	38670.15	2.05	3006.82	2347.45	3724.41	0.00	0.00	2.53
260	17244.93	35213.87	2.04	2839.27	2223.17	3548.74	0.00	0.00	2.54
261	59352.09	135521.85	2.28	0.00	0.00	2164.40	0.00	0.00	2.32
262	59267.09	136770.98	2.31	0.00	0.00	1727.78	0.00	0.00	2.34
263	63358.28	149951.54	2.37	0.00	0.00	574.77	0.00	0.00	2.38
264	48064.06	113421.67	2.36	0.00	0.00	2572.92	0.00	0.00	2.41
265	44427.00	106164.71	2.39	0.00	0.00	2670.21	0.00	0.00	2.45
266	40921.94	99150.79	2.42	0.00	0.00	2693.05	0.00	0.00	2.49
267	37580.45	92466.20	2.46	0.00	0.00	2703.01	0.00	0.00	2.53
268	34403.62	86527.34	2.52	0.00	0.00	2662.13	0.00	0.00	2.59
269	34984.88	89443.16	2.56	0.00	0.00	2343.99	0.00	0.00	2.62
270	5476.72	11270.29	2.06	1178.63	782.87	1244.60	89.65	0.00	2.66
271	4684.03	9611.28	2.05	1027.01	692.37	1098.84	61.52	0.00	2.67
272	3961.78	8107.51	2.05	848.12	581.96	950.54	56.48	0.00	2.66
273	3308.89	6753.48	2.04	674.97	406.76	799.05	31.35	0.00	2.62
274	25234.04	493531.78	19.56	3408.11	2559.08	3443.97	0.00	0.00	19.93
275	31411.81	63813.09	2.03	4001.32	3013.79	4607.47	0.00	0.00	2.40
276	34551.33	71758.68	2.08	4319.96	3473.08	4533.97	0.00	0.00	2.43
277	32334.20	67845.76	2.10	4155.58	3330.78	4363.57	0.00	0.00	2.46
278	29829.82	62974.95	2.11	3991.64	3188.77	4192.88	0.00	0.00	2.49
279	27471.45	58351.65	2.12	3828.18	3047.08	4021.88	0.00	0.00	2.52
280	20212.18	42253.08	2.09	3148.61	2387.66	3740.29	0.00	0.00	2.55
281	18362.02	38450.81	2.09	2971.99	2257.55	3565.32	0.00	0.00	2.57
282	16653.19	34886.50	2.09	2796.46	2128.13	3389.73	0.00	0.00	2.59
283	15081.01	31556.97	2.09	2622.18	1999.52	3213.45	0.00	0.00	2.61
284	57897.69	138392.79	2.39	0.00	0.00	738.77	0.00	0.00	2.40
285	53474.85	130253.58	2.44	0.00	0.00	885.51	0.00	0.00	2.45
286	54041.61	133513.36	2.47	0.00	0.00	441.14	0.00	0.00	2.48
287	49959.97	125679.81	2.52	0.00	0.00	594.06	0.00	0.00	2.53
288	46013.11	118125.52	2.57	0.00	0.00	754.68	0.00	0.00	2.58
289	47076.90	123376.08	2.62	0.00	0.00	363.94	0.00	0.00	2.63
290	36261.00	96241.10	2.65	0.00	0.00	1577.02	0.00	0.00	2.70
291	37128.75	100425.15	2.70	0.00	0.00	1144.85	0.00	0.00	2.74
292	33964.33	94510.18	2.78	0.00	0.00	1239.84	0.00	0.00	2.82

WITHOUT REINFORCEMENT				WITH REINFORCEMENT					
				PILES	ANCHOR		NAIL	GEOGRID	
293	4020.44	8836.81	2.20	938.80	666.71	974.20	39.11	0.00	2.85
294	3309.09	7329.52	2.21	772.25	479.46	823.68	34.91	0.00	2.85
295	3309.09	7329.52	2.21	772.25	479.46	823.68	34.91	0.00	10000.00
296	26292.95	482489.64	18.35	3359.79	2393.71	3339.15	0.00	0.00	18.70
297	23890.96	461884.00	19.33	3218.54	2294.46	3210.10	0.00	0.00	19.70
298	29577.62	62227.05	2.10	3765.43	3004.92	4290.69	0.00	0.00	2.48
299	34797.68	73916.71	2.12	4402.77	3526.23	4266.46	0.00	0.00	2.47
300	32682.88	70045.47	2.14	4248.67	3380.19	4097.73	0.00	0.00	2.50
301	30149.46	65151.24	2.16	4098.05	3236.42	3928.79	0.00	0.00	2.53
302	27752.13	60501.71	2.18	3951.27	3095.08	3759.61	0.00	0.00	2.57
303	25488.16	56093.22	2.20	3808.70	2956.31	3590.19	0.00	0.00	2.61
304	23341.13	51885.33	2.22	3634.76	2792.57	3420.49	0.00	0.00	2.64
305	21840.49	48995.03	2.24	3444.33	2615.91	3250.50	0.00	0.00	2.67
306	20077.71	45342.67	2.26	3263.11	2667.07	3080.18	0.00	0.00	2.71
307	56421.53	142639.75	2.53	0.00	0.00	0.00	0.00	0.00	2.53
308	51965.46	134518.98	2.59	0.00	0.00	44.59	0.00	0.00	2.59
309	52993.42	139439.80	2.63	0.00	0.00	0.00	0.00	0.00	2.63
310	48802.02	131558.56	2.70	0.00	0.00	0.00	0.00	0.00	2.70
311	50200.68	138406.43	2.76	0.00	0.00	0.00	0.00	0.00	2.76
312	38297.75	107651.21	2.81	0.00	0.00	335.81	0.00	0.00	2.82
313	34843.96	100987.35	2.90	0.00	0.00	459.69	0.00	0.00	2.91
314	36059.38	106859.11	2.96	0.00	0.00	215.37	0.00	0.00	2.97
315	28314.92	88855.49	3.14	0.00	0.00	656.86	0.00	0.00	3.16
316	28314.92	88855.49	3.14	0.00	0.00	656.86	0.00	0.00	10000.00
317	28314.92	88855.49	3.14	0.00	0.00	656.86	0.00	0.00	10000.00
318	28314.92	88855.49	3.14	0.00	0.00	656.86	0.00	0.00	10000.00
319	25322.35	454500.44	17.95	3299.12	2484.88	3111.17	0.00	0.00	18.30
320	22959.74	433983.87	18.90	3154.02	2371.75	2982.64	0.00	0.00	19.27
321	31118.71	67746.66	2.18	4040.78	3118.38	4054.20	0.00	0.00	2.54
322	32818.00	71751.12	2.19	4241.98	3237.11	3965.14	0.00	0.00	2.54
323	33019.58	73040.79	2.21	4379.96	3412.34	3845.64	0.00	0.00	2.56
324	30439.30	68128.26	2.24	4181.08	3215.46	3678.98	0.00	0.00	2.60
325	27981.36	63457.27	2.27	3999.97	3291.84	3512.20	0.00	0.00	2.65
326	23713.87	54201.80	2.29	3584.59	2855.66	3293.06	0.00	0.00	2.70
327	21672.93	50147.16	2.31	3444.07	2707.55	3124.53	0.00	0.00	2.74
328	22139.03	52132.96	2.35	3569.62	2807.07	3011.05	0.00	0.00	2.78
329	20289.92	48475.07	2.39	3400.82	2620.91	2843.68	0.00	0.00	2.83
330	54852.22	148426.28	2.71	0.00	0.00	0.00	0.00	0.00	2.71
331	56216.75	154908.19	2.76	0.00	0.00	0.00	0.00	0.00	2.76
332	45973.97	132227.47	2.88	0.00	0.00	0.00	0.00	0.00	2.88
333	41777.84	124687.66	2.98	0.00	0.00	0.00	0.00	0.00	2.98
334	40564.66	120911.51	2.98	0.00	0.00	0.00	0.00	0.00	2.98

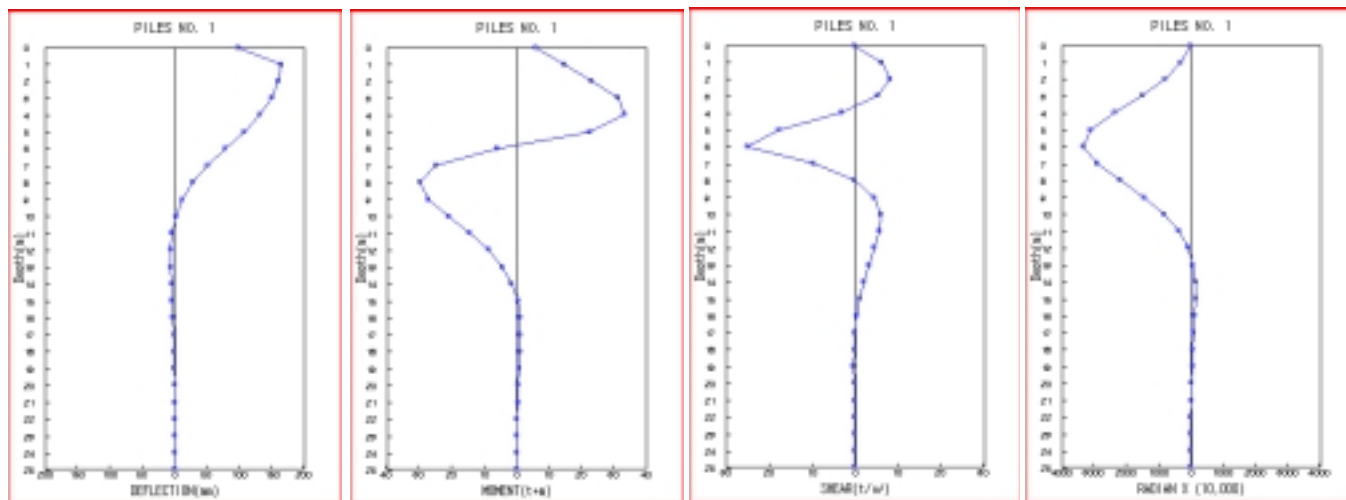
WITHOUT REINFORCEMENT				WITH REINFORCEMENT					
				PILES		ANCHOR	NAIL	GEOGRID	
335	36854.38	113931.98	3.09	0.00	0.00	0.00	0.00	0.00	3.09
336	8983.42	25024.41	2.79	2024.87	1500.62	1592.32	94.68	0.00	3.37
337	8983.42	25024.41	2.79	2024.87	1500.62	1592.32	94.68	0.00	10000.00
338	8983.42	25024.41	2.79	2024.87	1500.62	1592.32	94.68	0.00	10000.00
339	8983.42	25024.41	2.79	2024.87	1500.62	1592.32	94.68	0.00	10000.00
340	8983.42	25024.41	2.79	2024.87	1500.62	1592.32	94.68	0.00	10000.00
341	8983.42	25024.41	2.79	2024.87	1500.62	1592.32	94.68	0.00	10000.00
342	24336.90	428948.13	17.63	3144.40	2466.56	3880.63	0.00	0.00	18.02
343	29240.14	66002.16	2.26	3784.89	2943.79	3881.18	0.00	0.00	2.62
344	32369.98	73109.25	2.26	4191.86	3363.22	3833.01	0.00	0.00	2.61
345	32745.67	74588.18	2.28	4285.94	3484.16	3699.28	0.00	0.00	2.63
346	27919.82	64389.09	2.31	3919.04	3072.66	3500.09	0.00	0.00	2.68
347	25477.63	59681.88	2.34	3748.34	2898.43	3333.47	0.00	0.00	2.73
348	25894.50	61521.29	2.38	3849.37	2987.37	3222.14	0.00	0.00	2.76
349	23677.93	57245.40	2.42	3653.53	3012.51	3056.84	0.00	0.00	2.83
350	21556.76	53193.74	2.47	3492.52	2826.54	2891.48	0.00	0.00	2.89
351	17910.54	44595.03	2.49	3085.28	2423.55	2665.55	0.00	0.00	2.95
352	16187.63	41146.52	2.54	2950.11	2264.30	2498.14	0.00	0.00	3.02
353	16817.63	43771.70	2.60	3019.89	2455.08	2394.97	0.00	0.00	3.07
354	11861.65	31130.28	2.62	2338.66	1847.84	2100.55	0.00	0.00	3.15
355	13583.71	37698.48	2.78	2718.17	2063.56	2063.45	0.00	0.00	3.28
356	10911.35	30496.91	2.79	2284.10	1836.25	1825.97	27.35	0.00	3.34
357	11596.00	34531.14	2.98	2374.99	1791.50	1731.34	41.01	0.00	3.49
358	11596.00	34531.14	2.98	2374.99	1791.50	1731.34	41.01	0.00	10000.00
359	11596.00	34531.14	2.98	2374.99	1791.50	1731.34	41.01	0.00	10000.00
360	11596.00	34531.14	2.98	2374.99	1791.50	1731.34	41.01	0.00	10000.00
361	11596.00	34531.14	2.98	2374.99	1791.50	1731.34	41.01	0.00	10000.00
362	11596.00	34531.14	2.98	2374.99	1791.50	1731.34	41.01	0.00	10000.00
363	11596.00	34531.14	2.98	2374.99	1791.50	1731.34	41.01	0.00	10000.00
364	11596.00	34531.14	2.98	2374.99	1791.50	1731.34	41.01	0.00	10000.00
365	23340.63	406502.96	17.42	3073.64	2251.19	3599.83	0.00	0.00	17.80
366	29651.28	69794.22	2.35	3869.76	3171.12	3652.93	0.00	0.00	2.71
367	27858.18	66031.29	2.37	3702.09	3004.27	3486.68	0.00	0.00	2.74
368	30230.34	73838.39	2.44	4080.65	3156.53	3222.68	0.00	0.00	2.79
369	27609.92	68636.83	2.49	3896.82	3206.04	3098.19	0.00	0.00	2.86
370	25103.27	63701.65	2.54	3746.01	3027.51	2972.00	0.00	0.00	2.93
371	20932.69	53132.98	2.54	3353.80	2625.33	2876.57	0.00	0.00	2.96
372	18868.27	49083.89	2.60	3178.18	2433.74	2711.50	0.00	0.00	3.04
373	16896.25	45230.95	2.68	2990.77	2430.73	2546.38	0.00	0.00	3.15
374	13796.15	37681.45	2.73	2587.98	2038.15	2319.38	0.00	0.00	3.23
375	18466.08	53321.11	2.89	3156.11	2583.55	2249.33	0.00	0.00	3.32
376	19606.87	59541.89	3.04	2796.88	2295.83	1550.33	0.00	0.00	3.38

WITHOUT REINFORCEMENT				WITH REINFORCEMENT					
				PILES		ANCHOR	NAIL	GEOGRID	
377	13454.38	40712.93	3.03	2635.40	2022.31	1958.32	0.00	0.00	3.52
378	14393.68	46224.64	3.21	2375.16	1830.27	1698.74	0.00	0.00	3.62
379	14393.68	46224.64	3.21	2375.16	1830.27	1698.74	0.00	0.00	10000.00
380	14393.68	46224.64	3.21	2375.16	1830.27	1698.74	0.00	0.00	10000.00
381	14393.68	46224.64	3.21	2375.16	1830.27	1698.74	0.00	0.00	10000.00
382	14393.68	46224.64	3.21	2375.16	1830.27	1698.74	0.00	0.00	10000.00
383	14393.68	46224.64	3.21	2375.16	1830.27	1698.74	0.00	0.00	10000.00
384	14393.68	46224.64	3.21	2375.16	1830.27	1698.74	0.00	0.00	10000.00
385	14393.68	46224.64	3.21	2375.16	1830.27	1698.74	0.00	0.00	10000.00
386	14393.68	46224.64	3.21	2375.16	1830.27	1698.74	0.00	0.00	10000.00
387	24065.92	406696.83	16.90	3184.39	2409.82	3499.09	0.00	0.00	17.28
388	21567.46	387193.76	17.95	3026.22	2263.71	3335.58	0.00	0.00	18.35
389	26862.37	68097.74	2.54	3604.13	2861.94	3207.10	0.00	0.00	2.90
390	29234.73	75748.20	2.59	3951.66	3215.49	2890.86	0.00	0.00	2.94
391	30016.62	79152.75	2.64	4129.08	3319.70	2446.66	0.00	0.00	2.97
392	33761.24	93265.00	2.76	4176.17	3478.64	821.16	0.00	0.00	3.01
393	28398.84	79038.55	2.78	3955.37	3236.44	1395.03	0.00	0.00	3.09
394	29783.91	85782.63	2.88	3488.82	2896.12	530.96	0.00	0.00	3.11
395	27123.40	81524.70	3.01	3242.94	2580.15	394.26	0.00	0.00	3.23
396	24447.69	77216.87	3.16	3111.69	2579.69	263.70	0.00	0.00	3.40
397	23918.05	75718.78	3.17	0.00	0.00	146.29	0.00	0.00	3.17
398	21548.98	72081.96	3.35	0.00	0.00	102.33	0.00	0.00	3.35
399	17679.52	59862.48	3.39	0.00	0.00	557.72	0.00	0.00	3.42
400	17679.52	59862.48	3.39	0.00	0.00	557.72	0.00	0.00	10000.00
401	17679.52	59862.48	3.39	0.00	0.00	557.72	0.00	0.00	10000.00
402	17679.52	59862.48	3.39	0.00	0.00	557.72	0.00	0.00	10000.00
403	17679.52	59862.48	3.39	0.00	0.00	557.72	0.00	0.00	10000.00
404	17679.52	59862.48	3.39	0.00	0.00	557.72	0.00	0.00	10000.00
405	17679.52	59862.48	3.39	0.00	0.00	557.72	0.00	0.00	10000.00
406	17679.52	59862.48	3.39	0.00	0.00	557.72	0.00	0.00	10000.00
407	17679.52	59862.48	3.39	0.00	0.00	557.72	0.00	0.00	10000.00
408	17679.52	59862.48	3.39	0.00	0.00	557.72	0.00	0.00	10000.00
409	17679.52	59862.48	3.39	0.00	0.00	557.72	0.00	0.00	10000.00
410	23012.87	315200.67	13.70	3108.84	2375.85	3216.00	0.00	0.00	14.07
411	20511.05	298763.10	14.57	2958.59	2223.31	3075.95	0.00	0.00	14.97
412	25732.10	70992.05	2.76	3577.90	2810.34	2676.53	0.00	0.00	3.11
413	28530.86	80426.76	2.82	3964.57	3096.02	1563.19	0.00	0.00	3.12
414	29650.17	85653.76	2.89	3972.36	3234.57	735.58	0.00	0.00	3.16
415	33350.29	102693.31	3.08	0.00	0.00	0.00	0.00	0.00	3.08
416	32680.01	100740.53	3.08	0.00	0.00	0.00	0.00	0.00	3.08
417	29597.19	96046.39	3.25	0.00	0.00	0.00	0.00	0.00	3.25
418	24669.65	81409.08	3.30	0.00	0.00	0.00	0.00	0.00	3.30

WITHOUT REINFORCEMENT				WITH REINFORCEMENT					
				PILES	ANCHOR			NAIL	GEOGRID
419	26230.66	90551.61	3.45	0.00	0.00	0.00	0.00	0.00	3.45
420	21669.94	76363.63	3.52	0.00	0.00	0.00	0.00	0.00	3.52
421	21669.94	76363.63	3.52	0.00	0.00	0.00	0.00	0.00	10000.00
422	21669.94	76363.63	3.52	0.00	0.00	0.00	0.00	0.00	10000.00
423	21669.94	76363.63	3.52	0.00	0.00	0.00	0.00	0.00	10000.00
424	21669.94	76363.63	3.52	0.00	0.00	0.00	0.00	0.00	10000.00
425	21669.94	76363.63	3.52	0.00	0.00	0.00	0.00	0.00	10000.00
426	21669.94	76363.63	3.52	0.00	0.00	0.00	0.00	0.00	10000.00
427	21669.94	76363.63	3.52	0.00	0.00	0.00	0.00	0.00	10000.00
428	21669.94	76363.63	3.52	0.00	0.00	0.00	0.00	0.00	10000.00
429	21669.94	76363.63	3.52	0.00	0.00	0.00	0.00	0.00	10000.00
430	21669.94	76363.63	3.52	0.00	0.00	0.00	0.00	0.00	10000.00
431	21669.94	76363.63	3.52	0.00	0.00	0.00	0.00	0.00	10000.00
432	21669.94	76363.63	3.52	0.00	0.00	0.00	0.00	0.00	10000.00
433	21996.64	230260.84	10.47	3044.73	2310.28	2664.73	0.00	0.00	10.83
434	19469.73	216818.47	11.14	2875.72	2328.71	2539.30	0.00	0.00	11.53
435	24554.29	74581.36	3.04	3474.94	2868.73	1475.84	0.00	0.00	3.36
436	25484.25	78764.95	3.09	3607.58	2891.59	674.47	0.00	0.00	3.37
437	28843.83	93615.71	3.25	3247.28	2574.13	0.00	0.00	0.00	3.45
438	30311.23	102417.62	3.38	0.00	0.00	0.00	0.00	0.00	3.38
439	29839.80	101057.24	3.39	0.00	0.00	0.00	0.00	0.00	3.39
440	31649.09	112195.92	3.54	0.00	0.00	0.00	0.00	0.00	3.54
441	26419.71	95726.71	3.62	0.00	0.00	0.00	0.00	0.00	3.62

NO. OF PILES ROW = 1

1.



2.

DEPTH (m)	DEFLECTION (cm)	RADIAN	MOMENT (ton * m)	SHEAR (ton/m ²)
0	9.878	0.00000	5.92053	0.00000
1	9.798	-0.00168	7.96942	3.69618
2	9.512	-0.00425	12.47214	4.86646
3	8.909	-0.00798	16.75842	3.20020
4	7.889	-0.01246	17.78000	-1.74676
5	6.434	-0.01642	11.99574	-10.49926
6	4.696	-0.01766	-3.24526	-14.91175
7	3.023	-0.01538	-13.21284	-5.69426
8	1.670	-0.01158	-15.85844	-0.13886
9	0.709	-0.00769	-14.41697	2.63784
10	0.110	-0.00443	-11.20061	3.55583
11	-0.206	-0.00204	-7.66303	3.39356
12	-0.327	-0.00051	-4.58023	2.72424
13	-0.330	0.00034	-2.25771	1.91993
14	-0.274	0.00070	-0.71480	1.18841
15	-0.199	0.00076	0.17430	0.62001
16	-0.127	0.00066	0.58548	0.23114
17	-0.069	0.00049	0.68890	-0.00126
18	-0.029	0.00032	0.62220	-0.11594
19	-0.004	0.00018	0.48290	-0.15273
20	0.009	0.00008	0.33141	-0.14521
21	0.013	0.00001	0.19890	-0.11813
22	0.012	-0.00002	0.09622	-0.08759

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: 2

DEPTH (m)	DEFLECTION (cm)	RADIAN	MOMENT (ton * m)	SHEAR (ton/m ²)
23	0.009	-0.00004	0.03015	-0.04293
24	0.004	-0.00004	0.00458	-0.01160
25	0.000	-0.00004	0.00000	-0.00106

ANCHOR INSTALL CHECK

	(M)	(M)	(Deg)	(M)	(EA)	(M)	(M)	(ton)	(kg/cm ²)			(ton)	(ton)	(ton)	(ton)
1	20.00	8.00	25.94	2.50	4.00	0.1000	0.0127	11.22	15.00	2.50	2.50	44.88	76.60	64.01	44.88
2	19.03	8.00	26.57	2.50	4.00	0.1000	0.0127	11.22	15.00	2.50	2.50	44.88	76.60	70.37	44.88
3	15.73	7.00	26.20	2.50	4.00	0.1000	0.0127	11.22	15.00	2.50	2.50	44.88	67.03	61.58	44.88
4	11.34	7.00	29.60	2.50	4.00	0.1000	0.0127	11.22	15.00	2.50	2.50	44.88	313.75	225.71	44.88

ANCHOR OUTPUT

	(Deg)	(Deg)	(Deg)	(Deg)	COS() (1)	SIN() (2)	TAN() (3)	(2)*(3) (4)	(1)+(4) (5)	(ton)	(ton)	(ton)	(6) (6)	(6)*(5) (7)	(8)	FORCE (7)/(8)	RADIOUS (9)	MOMENT (7)/(8)*(9)
1	74.69	25.94	100.63	35.00	-0.1844	0.9829	0.7002	0.6882	0.5038	44.88	76.60	64.01	44.88	22.61	2.50	9.045	31.865	288.21
2	67.92	26.57	94.49	35.00	-0.0783	0.9969	0.7002	0.6981	0.6198	44.88	76.60	70.37	44.88	27.82	2.50	11.127	31.865	354.56
3	0.00	26.20	26.20	0.00	1.0000	0.0000	0.0000	0.0000	1.0000	44.88	0.00	0.00	0.00	0.00	2.50	0.000	0.000	0.00
4	0.00	29.60	29.60	0.00	1.0000	0.0000	0.0000	0.0000	1.0000	44.88	0.00	0.00	0.00	0.00	2.50	0.000	0.000	0.00

NAIL OUTPUT

	(M)	(Deg)	(Deg)	(Deg)	(Deg)	COS() (1)	SIN() (2)	TAN() (3)	(2)*(3) (4)	(1)+(4) (5)	(ton)	(ton)	(6)	(6)*(5) (7)	(8)	FORCE (7)/(8)	RADIOUS (9)	MOMENT (7)/(8)*(9)
1	8.53	0.00	23.20	23.20	0.00	1.0000	0.0000	0.0000	0.0000	1.0000	10.00	0.00	0.00	0.00	2.50	0.000	0.000	0.00
2	8.82	0.00	23.96	23.96	0.00	1.0000	0.0000	0.0000	0.0000	1.0000	10.00	0.00	0.00	0.00	2.50	0.000	0.000	0.00
3	8.51	0.00	26.57	26.57	0.00	1.0000	0.0000	0.0000	0.0000	1.0000	10.00	0.00	0.00	0.00	2.50	0.000	0.000	0.00
4	8.01	0.00	26.57	26.57	0.00	1.0000	0.0000	0.0000	0.0000	1.0000	10.00	0.00	0.00	0.00	2.50	0.000	0.000	0.00
5	6.81	0.00	27.41	27.41	0.00	1.0000	0.0000	0.0000	0.0000	1.0000	10.00	0.00	0.00	0.00	2.50	0.000	0.000	0.00
6	4.71	0.00	25.35	25.35	0.00	1.0000	0.0000	0.0000	0.0000	1.0000	10.00	0.00	0.00	0.00	2.50	0.000	0.000	0.00
7	4.51	0.00	26.57	26.57	0.00	1.0000	0.0000	0.0000	0.0000	1.0000	10.00	0.00	0.00	0.00	2.50	0.000	0.000	0.00

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: 1

GEOGRID DATA

	(M)	(M)	(TON)	(TON)	RFID	RFCR	RFCD	RFBD		(ton)	(ton)	(6)	FORCE	RADIOUS	MOMENT
1	11.42	1.00	10.00	10.00	1.20	2.50	1.30	1.10	0.80	10.00	0.00	0.00	0.000	0.000	0.00
2	11.87	1.00	10.00	10.00	1.20	2.50	1.30	1.10	0.80	10.00	0.00	0.00	0.000	0.000	0.00
3	11.42	1.00	10.00	10.00	1.20	2.50	1.30	1.10	0.80	10.00	0.00	0.00	0.000	0.000	0.00
4	11.42	1.00	10.00	10.00	1.20	2.50	1.30	1.10	0.80	10.00	0.00	0.00	0.000	0.000	0.00