DR. NO S BIGRK HAWK

BOOK 5.

1084

Cross Levels

Construction Book

EUGENE DIETZGEN CO.

DRAWING MATERIALS, MATHEMATICAL and
SURVEYING INSTRUMENTS

Chicago New York San Francisco New Orleans Pittsburg Toronto

Distances from Center of Roadway for Cross-Sectioning
Roadway 16 feet wide. Side Slopes 1 on 1.
For Single Track Embankment.

H	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	H
0	8.0	8.1	8.2	8.3	8.4	8.5	8.6	8.7	8.8	8.9	0
1	9.0	9.1	9.2	9.3	9.4	9.5	9.6	9.7	9.8	9.9	1
2	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.9	2
3	11.0	11.1	11.2	11.3	11.4	11.5	11.6	11.7	11.8	11.9	3
4	12.0	12.1	12.2	12.3	12.4	12.5	12.6	12.7	12.8	12.9	4
5	13.0	13.1	13.2	13.3	13.4	13.5	13.6	13.7	13.8	13.9	5
6	14.0	14.1	14.2	14.3	14.4	14.5	14.6	14.7	14.8	14.9	6
7	15.0	15.1	15.2	15.3	15.4	15.5	15.6	15.7	15.8	15.9	7
8	16.0	16.1	16.2	16.3	16.4	16.5	16.6	16.7	16.8	16.9	8
9	17.0	17.1	17.2	17.3	17.4	17.5	17.6	17.7	17.8	17.9	9
10	18.0	18.1	18.2	18.3	18.4	18.5	18.6	18.7	18.8	18.9	10
11	19.0	19.1	19.2	19.3	19.4	19.5	19.6	19.7	19.8	19.9	11
12	20.0	20.1	20.2	20.3	20.4	20.5	20.6	20.7	20.8	20.9	12
13	21.0	21.1	21.2	21.3	21.4	21.5	21.6	21.7	21.8	21.9	13
14	22.0	22.1	22.2	22.3	22.4	22.5	22.6	22.7	22.8	22.9	14
15	23.0	23.1	23.2	23.3	23.4	23.5	23.6	23.7	23.8	23.9	15
16	24.0	24.1	24.2	24.3	24.4	24.5	24.6	24.7	24.8	24.9	16
17	25.0	25.1	25.2	25.3	25.4	25.5	25.6	25.7	25.8	25.9	17
18	26.0	26.1	26.2	26.3	26.4	26.5	26.6	26.7	26.8	26.9	18
19	27.0	27.1	27.2	27.3	27.4	27.5	27.6	27.7	27.8	27.9	19
20	28.0	28.1	28.2	28.3	28.4	28.5	28.6	28.7	28.8	28.9	20
21	29.0	29.1	29.2	29.3	29.4	29.5	29.6	29.7	29.8	29.9	21
22	30.0	30.1	30.2	30.3	30.4	30.5	30.6	30.7	30.8	30.9	22
23	31.0	31.1	31.2	31.3	31.4	31.5	31.6	31.7	31.8	31.9	23
24	32.0	32.1	32.2	32.3	32.4	32.5	32.6	32.7	32.8	32.9	24
25	33.0	33.1	33.2	33.3	33.4	33.5	33.6	33.7	33.8	33.9	25
26	34.0	34.1	34.2	34.3	34.4	34.5	34.6	34.7	34.8	34.9	26
27	35.0	35.1	35.2	35.3	35.4	35.5	35.6	35.7	35.8	35.9	27
28	36.0	36.1	36.2	36.3	36.4	36.5	36.6	36.7	36.8	36.9	28
29	37.0	37.1	37.2	37.3	37.4	37.5	37.6	37.7	37.8	37.9	29
30	38.0	38.1	38.2	38.3	38.4	38.5	38.6	38.7	38.8	38.9	30
31	39.0	39.1	39.2	39.3	39.4	39.5	39.6	39.7	39.8	39.9	31
32	40.0	40.1	40.2	40.3	40.4	40.5	40.6	40.7	40.8	40.9	32
33	41.0	41.1	41.2	41.3	41.4	41.5	41.6	41.7	41.8	41.9	33
34	42.0	42.1	42.2	42.3	42.4	42.5	42.6	42.7	42.8	42.9	34
35	43.0	43.1	43.2	43.3	43.4	43.5	43.6	43.7	43.8	43.9	35
36	44.0	44.1	44.2	44.3	44.4	44.5	44.6	44.7	44.8	44.9	36
37	45.0	45.1	45.2	45.3	45.4	45.5	45.6	45.7	45.8	45.9	37
38	46.0	46.1	46.2	46.3	46.4	46.5	46.6	46.7	46.8	46.9	38
39	47.0	47.1	47.2	47.3	47.4	47.5	47.6	47.7	47.8	47.9	39
40	48.0	48.1	48.2	48.3	48.4	48.5	48.6	48.7	48.8	48.9	40

Example—If point is 22.6 ft. above grade, how far should it be from center line to be a slope stake point? Ans. from Table 30.6. For same slopes but other widths of roadbed, correct above figures by one-half difference in width of roadbed; thus in example above, for 20 ft. roadbed distance will be 30.6+(20—16)÷2 or 2 ft. added to 30.6 =32.6. For slopes of 1 on 1½ see inside of back cover.

44.90

County Engineer Office
Waterloo, Iowa

60-40
40 = 43.20
1.63

20.40
08
16320

S.

— 85 —

Index

Index

Construction Levels Cont. Page

Line Construction Levels Page

Main

Sta.	Elev.	Gr.	Cut.
to ditch			
0	38.00	40.00	2.00
1	41.85	40.08	1.80 L
2	42.35	40.16	2.20 L
3	42.65	40.24	2.40 L
L 3+45			
4	44.15	40.32	3.80 L
5	44.45	40.40	4.10 L
B.M.#1	50.00		
℄ Bridge	49.53		
N.E. 5+86			
S.E. 6+45			
to Creek			
6	40.43	40.48	.00
7	42.53	40.56	2.00 L
8	44.93	40.64	3.30 L
9	45.03	40.72	4.30 L
L 9+22			
10	44.93	40.80	4.10 L
11	44.93	40.88	4.00 L
12	46.13	40.96	5.20 L

Main

Sta.	Elev	Gr.	Cut
13	46.83	41.04	5.80 L
14	47.13	41.12	6.00 L
15	46.24	41.20	5.00 L
16	47.34	41.28	6.10 L
17	46.54	41.36	5.20 L
18	47.14	41.44	5.70 L
19	47.64	41.52	6.10 L
20	49.14	41.60	7.50 L
L 20+15			
21	48.74	41.68	7.10 L
22	49.44	41.76	7.70 L
E.E.			
23	50.04	41.84	8.20 L
E. Ditch.			
23+07	49.24		
℄ Hwy.			
23+27	50.74		
W.D.Ditch.			
23+49	47.04		
W.E.			
23+56			
24	49.54	41.92	7.60 L
B.M.#2	51.74		
E.&W.R.			
24+85			

Sta	Elev	Main Gr.	Cut		
25	48.20	42.00	6.20		
26	48.30	42.08	6.20		
27	48.70	42.16	6.50		
28	48.40	42.24	6.20		
29	49.10	42.32	6.80		
30	48.70	42.40	6.30		
31	49.40	42.48	6.90		
32	49.80	42.56	7.20		
33	50.00	42.69	7.40		
34	50.10	42.72	7.40		
L. 34+31					
35	49.60	42.80	6.80		
36	49.80	42.88	6.97		
37	50.25	42.91	7.39		
37+35	48.56	42.99	5.60	=514.30	original Main.
30=37+35	48.56				
31 N.&S. Tk. 31+75	51.00	43.07	7.90		

Sta	Elev.	Main Gr	Cut
32	51.18	43.15	8.13
33	51.06	43.23	7.80
34	51.06	43.31	7.80
In creek 34+50	47.63		
35	50.43	43.39	7.00
36	51.30	43.47	7.90
37	50.83	43.55	7.30
38 E&W Tk. 38+90	51.23	43.63	7.60
39	50.88	43.71	7.20
40	51.74	43.79	8.00
41	51.42	43.87	7.60
42	52.27	43.95	8.30
43	51.06	44.03	7.01
44	51.37	44.11	7.30
45	52.69	44.19	8.10
46	53.69	44.27	9.40
L. 47	52.69	44.35	8.30
48	53.01	44.43	8.60

Sta	Elev.	Main Gr.	Cut	AV Cut	Max Cut	Min Cut
49	53.63	44.51	9.10			
50	53.90	44.59	9.30			
51	54.08	44.67	9.40			
52	53.55	44.75	8.80			
53	53.38	44.83	8.60			
N.B.S.Rt. 53+96		44.90	9.70			
54	54.59	47.10	7.50	6.65	9.7	1.8
N.Rt. 54+80						
55	55.28	47.30	8.00			
L Hwy 55+10	56.48					
S.Rt. 55+39						
56	55.19	47.50	7.70			
BM #3	57.60					
57	55.36	47.70	7.70			
58	54.32	47.90	6.40			
59	55.41	48.10	7.30			
60	56.19	48.30	7.90			
61	57.24	48.50	8.70			
62	57.69	48.70	9.00			

Sta	Elev.	Main Gr.	Cut
63	54.40	48.90	4.50
L 64	54.47	49.10	5.40
65	55.97	49.30	6.70
66	56.48	49.50	7.00
67	56.01	49.70	6.30
In Creek 67+85	53.73		
L 68	55.21	49.90	5.30
69	56.84	50.10	6.70
70	56.87	50.30	6.60
71	57.57	50.50	7.10
72	57.56	50.70	6.90
BM #C	63.25		
73	57.00	50.90	6.10
L 74	56.99	51.10	5.90
75	57.79	51.30	6.50
76	57.79	51.50	6.30
Out Creek 77	55.63	51.70	3.90
78	57.96	51.90	6.10
79	58.59	52.10	6.50

5 1/2
3.6
8.0

Sta.	Elev.	Main Gr	Cut	Av. Cut.	Max. Cut.	Min. Cut.
80	59.17	52.30	6.80			
81	59.70	52.50	7.20			
82	59.61	53.70	6.90			
83	58.60	52.90	5.50			
℄ 84	59.11	53.10	6.00			
85	59.98	53.30	6.70			
86	60.23	53.50	6.70			
87	60.65	53.70	6.90			
88	60.97	53.90	7.10			
89	60.80	54.10	6.70			
℄ 90	60.63	54.30	6.30	7.90	9.0	3.9
91	60.56	54.50	6.10			
92	61.65	54.70	7.00			
93	61.99	54.90	7.10			
94	61.91	55.10	6.80			
95	62.26	55.30	7.00			
96	67.36	55.50	6.80			
N. ℄ 96+4						
℄ Hwy 96+37	64.88					

Sta. S. ℄ 96+70	Elev	Main Gr	Cut	Av Cut	Max Cut	Min Cut
97	67.13	55.70	6.90			
B.M. #5	65.30					
98	62.76	55.90	6.90			
99	62.90	56.10	6.80			
℄ 100	63.23	56.30	6.90	6.7	7.1	6.1
101	63.60	56.55	7.10			
102	63.53	56.80	6.70			
103	63.35	57.05	6.30			
104	63.97	57.30	6.70			
E.F.L. 104+35						
℄ Hwy 104+66	65.40					
W.F.L. 104+98		B.M. #6	66.45			
B.M. #6	66.45					
105	63.64	57.55	6.10			
106	64.07	57.80	6.30			
107	64.27	58.05	6.20			
108	64.53	58.30	6.20			
109	65.03	58.55	6.50			

Sta.	Elev.	Main Gr	Cut	Av. Cut	Max Cut	Min Cut
110	65.32	58.80	6.50			
111	65.48	59.05	6.40			
112	65.70	59.30	6.40			
113	65.97	59.55	6.40			
L 114	65.86	59.80	6.10			
115	66.43	60.05	6.40	6.5	7.1	6.1
116	66.67	60.30	6.40			
117	66.70	60.55	6.20			
B.M. D. E&W Pt. 117+43	71.09					
118	67.11	60.80	6.30			
119	67.37	61.05	6.30			
120	67.76	61.30	6.50			
121	68.08	61.55	6.50			
Ld ditch 121+50	65.34					
L 122	68.18	61.80	6.40	6.4	6.5	6.2
123	68.79	62.05	6.70			
124	69.27	62.30	7.00			
125	69.10	62.55	6.60			

Sta	Elev	Main Gr	Cut	Av. Cut	Max Cut	Min Cut
126	69.22	62.80	6.40			
127	69.42	63.05	6.40			
128	69.55	63.30	6.30			
129	69.97	63.55	6.40			
130	69.81	63.80	6.00			
L 131	69.97	64.05	5.90			
B.M. E.	70.37					
132	70.33	64.30	6.00	6.7	7.0	59
133	70.77	64.55	6.20			
134	71.04	64.80	6.20			
135	71.35	65.05	6.30			
136	71.57	65.30	6.30			
137	71.80	65.55	6.30			
138	72.44	65.80	6.60			
139	72.56	66.05	6.58			
140	72.26	66.30	6.00			
141	73.02	66.55	6.50			
142	72.36	66.80	5.60	6.2	6.6	56
ditch 142+50	70.40					

Sta	Elev	Main Gr	Cut	Av Cut	Max Cut	Min Cut
143	73.57	67.05	6.50			
144	73.91	67.30	6.60			
145	73.80	67.55	6.30			
146	73.98	67.80	6.20			
N.E. 146+48						
℄ Hwy. 146+89	77.00					
147	76.95	68.05	8.90	6.7	8.9	5.6
B.M. "F" 147+16 S.E.	77.66					
to ditch.						
℄ 148	72.65	68.30	4.40			
149	74.72	68.55	6.20			
150	74.85	68.80	6.10			
151	75.10	69.05	6.10	6.3	8.3	4.4
152	75.42	69.30	6.10			
153	75.41	69.55	5.90			
154	75.97	69.80	6.20			
155	76.34	70.05	6.30			
℄ 155+50						
156	76.69	70.30	6.40			

Sta	Elev	Main Gr	Cut	Av Cut	Max Cut	Min Cut
157	76.11	70.55	5.60			
158	77.37	70.80	6.60			
159	77.42	71.05	6.40			
160	77.63	71.30	6.30	6.2	6.6	5.6
161	77.44	71.75	5.70			
162	78.25	72.20	6.10			
N.Y.S.P.L. 162+76 E.℄ W. R.						
163	78.00	72.65	5.40			
164	79.21	73.10	6.10	5.9	6.3	5.4
165	79.65	73.55	6.10			
166	80.03	74.00	6.00			
167	80.68	74.45	6.20			
168	81.12	74.90	6.20	6.1	6.2	6.0
169	81.90	75.35	6.60			
170	82.12	75.80	6.30			
171	82.43	76.25	6.20			
172	83.15	76.70	6.50			
173	83.36	77.15	6.20			
174	83.82	77.60	6.20			

Main

Sta	Elev	Gr	Cut	Av Cut	Max Cut	Min Cut
175 Ditch.	84.41	78.05	6.40			
176	83.27	78.50	4.80			
℄ 177 N&S Rd. 177+47	84.37	78.95	5.40			
Pond	83.86	218' N. Sta. 177				
178	84.50	79.40	5.10 ℄	6.0	6.6	4.8
179	84.84	79.85	5.00 ℄			
180	85.35	80.30	5.00 ℄			
181	85.49	80.75	4.70 ℄			
182	85.82	81.20	4.60 ℄			
183	86.54	81.65	4.50 ℄			
℄ 184	86.78	82.10	4.70 ℄			
185	87.23	82.55	4.70 ℄			
186	87.82	83.00	4.80 ℄			
187	87.94	83.45	4.50 ℄			
188	88.66	83.90	4.80 ℄			
189	88.23	83.35	4.90 ℄			
190	89.93	84.80	5.10 ℄			

Main

Sta	Elev	Gr.	Cut	Av cut	Max cut	Min cut
E. ℄ 190+50				4.0	5.6	1.5
℄ Hwy. 190+80	91.87					
191	90.03	85.25	4.80 ℄			
W.℄ 191+10	90.95	85.295	5.60 ℄	4.8	5.6	4.5
B.M.H.# 8	92.65					End of Main.

Br. 1 Left.

Sta	Elev	Gr	Cut	Av Cut	Max Cut	Min Cut
0	43.01	41.00	2.00	= Sta 7. Main		
1	44.22	41.40	2.80			
1+50	45.05	41.60	3.50			
2	48.05	42.80	5.25			
3	50.57	45.20	5.40			
N.&S.Tk. 4	52.44	47.60	4.80	4.1	5.4	2.0

Br. 2 Left.

Sta	Elev	Gr	Cut	Av Cut	Max Cut	Min Cut
0	46.87	42.45	4.40	= Sta 18+10 Main		
1	47.11	42.65	4.50			
2	47.02	42.85	4.20	4.3	4.5	4.2
3	49.30	43.65	5.70			
L 3+40						
4	49.83	44.45	5.40			
5	50.77	45.25	5.50			
6	51.41	46.05	5.40			
7	52.28	46.85	5.40			
E.&W.Tk. 7+18						
L 7+25						
8	51.54	47.65	3.90			

Sta	Elev	Gr	Cut	Av Cut	Max Cut	Min Cut
9	53.86	48.45	5.40			
10	54.95	49.25	5.70	5.20	5.7	3.9
11	55.21	50.05	5.20			
12	56.09	50.85	5.24			
13	57.66	51.65	6.00			
14	58.13	52.45	5.70			
15	58.64	53.25	5.40			
16	59.20	54.05	5.20			
17	59.99	54.85	5.10			
17+50						
18	60.91	55.65	5.30	5.1	6.0	3.1
19	61.22	55.95	5.30			
20	61.32	56.25	5.10			
21	61.32	56.55	4.80			
22	61.39	56.85	4.50			
23	61.76	57.15	4.60			
24	62.65	57.45	5.20			
25	62.57	57.75	4.80			
L 26	62.65	58.15	4.50			

Br. 2 Left

Sta	Elev	Gr	Cut			
27	63.30	58.55	4.70			
28	63.72	58.95	4.80			
29	64.30	59.35	4.90			
E&W Ft. 29+26						
B.M. 1	65.85					
30	64.77	59.75	5.00			
31	65.68	60.15	5.50	4.9	5.5	4.7
L 32	66.66	60.95	5.70			
33	67.73	61.75	6.00			
34	68.34	62.55	5.80			
35	68.88	63.35	5.50			
36	69.15	64.15	5.00			
37	69.89	64.95	4.90			
38	70.43	65.75	4.70			
L 39	71.35	66.55	4.80			
40	72.37	67.35	5.00			
41	73.01	68.15	4.90			
42	73.33	68.95	4.40			
43	74.04	69.75	4.30			

Br. 2 Left.

Sta	Elev.	Gr	Cut	AV Cut	MAX Cut	MIN Cut
44	74.96	70.55	4.40			
WFL 44+31						
44+71	76.79					
45	75.63	71.35	4.30			
E Ft. 45+11	75.98	71.49	4.50	4.9	6.0	4.3
B.M. 2	75.17					

Br. A. Left.

0	64.30	59.35	4.90	= Sta 29. Br 2 Left.		
N.E.S.Th 0+98	65.98	61.31	4.70	4.8	4.9	4.7

Br. B. Left.

0	62.65	58.35	4.30	= Sta 26 Br 2 Left.		
1	63.52	58.85	4.70			
L 1+15						
2	64.87	59.35	5.50			
3	64.95	59.85	5.10			
4	64.69	60.35	4.30			
L 5	65.31	60.85	4.50			

Br. B. Left.

Sta	Elev	Gr	Cut
6	66.29	61.85	4.40
7	67.24	62.85	4.40
8	68.43	63.85	4.60
9	69.31	64.85	4.50
10	70.49	65.85	4.60
11	71.59	66.85	4.70
12	73.00	67.85	5.10
13	73.80	68.85	5.00
14	74.01	69.35	4.70
15	74.30	69.85	4.50
L 15+50			
16	75.26	70.35	4.90
17	76.33	71.55	4.80
18	77.59	72.75	4.80
19	78.34	73.95	4.40
20	79.90	75.15	4.70
21	81.12	76.35	4.80
N.F.L. 21+2			
℄ Hwy 21+23	82.83		

Br. B. Left.

Sta	Elev.	Gr	Cut	AV Cut	Max Cut	Min Cut
S.F.L. 21+55	82.80	77.01	5.80	4.8	5.8	4.3
B.M. #1	84.11					

Br. C. Left.

0	65.31	60.90	4.40	= Sta 5 Br B Left
1	66.24	61.90	4.30	
2	67.52	62.90	4.60	
3	68.67	63.90	4.80	
4	70.57	64.90	5.70	
5	72.24	65.90	6.30	
6	73.01	66.90	6.30	
7	72.77	67.90	4.90	
8	73.59	68.90	4.70	
9	75.00	69.90	5.10	
N.F.L. 9+64				
℄ Hwy 9+89	77.13			
10	77.21	70.90	6.30	
S.F.L. 10+16				
B.M. #1	78.40			

Br. C. Left.

Sta	Elev	Gr	Cut	AV Cut	Max Cut	Min Cut
11	76.94	71.90	5.00			
12	77.80	72.90	4.40			
13	79.66	73.90	5.80			
N.P.S.#						
13+20	80.87	74.10	6.80	5.3	6.8	4.2

Br. 3. Left.

Continue on Pp 118 New 0 to 5 = old 0

Old 0	55.41	49.65	5.70	= Sta 59 Main.		
1	55.88	49.98	5.90			
2	55.70	50.31	5.40			
3	55.90	50.64	5.40			
4	57.68	50.97	6.70			
5	58.64	51.30	7.30			
6	58.65	51.63	7.00			
7	58.60	51.94	6.40			
L 7+50						
8	58.89	52.29	6.60	6.2	7.3	5.0
9	59.54	52.62	6.90			
10	59.93	53.00	6.90			

Br. 3. Left.

Sta	Elev	Gr.	Cut	AV Cut	Max Cut	Min Cut
Ditch 11	59.14	53.50	5.60			
12	60.72	54.00	6.70			
N.F.L. 12+48						
12+63	61.61					
S.F.L. 12+83						
L 13	60.98	54.50	6.50	6.6	6.9	5.6
14	61.45	55.00	6.50			
15	61.59	55.50	6.00			
16	62.39	56.00	6.40			
17	62.98	56.50	6.50			
18	63.83	57.00	6.80			
Ditch 18+85	62.06					
19	63.75	57.50	6.30			
20	64.23	58.00	6.30			
21	64.82	58.30	6.50			
22	64.99	58.60	6.40			
L 23	65.04	58.90	6.10	6.4	6.8	6.0
24	65.14	59.20	5.90			
25	65.58	59.50	6.10			

0.5-90

Br. 3 Left.

Sta	Elev	Gr.	Cut	Av	Max Cut	Min Cut
26 E. & W. P. 26+43	65.93	59.80	6.10			
27	66.39	60.10	6.30			
28	66.55	60.40	6.20			
29	66.81	60.70	6.10			
30	67.21	61.00	6.20			
31	68.03	61.30	6.70			
32	68.78	61.60	7.20			
33	69.65	61.90	7.80			
34	69.83	62.20	7.60			
L. 35	68.82	62.50	6.30	6.5	7.8	5.9
36	68.95	62.80	6.20			
37	69.33	63.10	6.20			
38	70.03	63.40	6.60			
39	70.44	63.70	6.60			
Pond	69.45					
40	70.53	64.00	6.50			
L. 40+50						
41	70.61	64.30	6.30			

Br. 3 Left.

Sta	Elev	Gr.	Cut	Av	Max Cut	Min Cut
E. & W. F. L. 41+07						
42	71.24	64.60	6.60			
43	71.57	64.90	6.70			
44	72.21	65.20	7.00			
45	72.31	65.50	6.80			
Ind. Ch. 46	71.20	65.90	5.30			
47	73.04	66.30	6.70	6.4	7.0	5.3
48	73.47	66.70	6.80			
49	74.36	67.10	7.30			
50	75.03	67.50	7.50			
51	75.70	67.90	7.80			
52	76.15	68.30	7.90			
53	76.13	68.70	7.40			
54	76.23	69.10	7.10			
N. F. L. 54+35						
C. Hwy. 54+56	77.64					
S. F. L. 54+83						
B. M. #1	77.67					
54+95						

0.30%

0.40%

Br. 3 Left.

Sta	Elev	Gr.	Cut	Av	Max Cut	Min Cut
55	76.74	69.50	7.20			
56	76.77	69.90	6.90			
57	77.24	70.30	6.90			
58	77.59	70.70	6.90			
59	77.87	71.10	6.80			
L. 59+23						
60	77.76	71.50	6.30			
61	77.97	71.90	6.10			
62	78.33	72.30	6.00			
63	78.82	72.70	6.10			
N.B.S. Pk 63+10						
64	79.23	73.10	6.10			
65	79.77	73.50	6.30			
66	80.14	73.90	6.20			
67	80.27	74.30	6.00	6.8	7.9	6.0
68	80.45	74.70	5.80			
L. 68+50						
69	80.72	75.10	5.60			
70	80.80	75.50	5.30			

Br. 3 Left.

Sta	Elev	Gr.	Cut	Av	Max Cut	Min Cut
71	80.99	76.15	4.80			
72	82.53	76.80	5.70			
E&W Pk 72+18						
73	83.27	77.45	5.80			
L. 74	83.12	78.10	5.00			
75	83.76	78.75	5.00			
76	84.44	79.40	5.00	5.7	6.0	4.8
L. 76+60						
77	85.20	80.05	5.20			
78	86.76	80.70	6.10			
79	88.62	81.35	7.30			
80	88.08	82.00	6.10			
81	88.24	82.65	5.60			
82	88.77	83.30	5.50			
83	89.19	83.95	5.20			
84	89.66	84.60	5.10			
85	90.22	85.25	5.00	5.6	7.3	5.0
86	90.56	85.90	4.70			
E&W Pk 86+67	92.06	86.33	5.70	5.1	5.7	4.7

Br. D. Left.

Sta	Elev Gr	Cut	AV Cut	MX Cut	MIN Cut
0	61.45 55.60	5.90	=14 Br 3 Left		
1	61.39 56.60	4.80			
2 N.E.S. PL	62.51 57.60	4.90			
2+46	63.12 58.06	5.10	5.2	5.9	1.8

Br. E. Left.

Sta	Elev Gr	Cut	
0	65.04 59.40	5.60	=Sta 23 Br 3 Left
1	66.00 60.80	5.20	
2 N.E.S. PL	66.67 62.20	4.50	
2+61	67.83 63.05	4.80	5.0 5.6 4.5

Br. F. Left.

Sta	Elev Gr	Cut	
0	70.55 64.50	6.10	=Sta 40+50 Br. 3 Left
1	70.73 66.00	4.70	
2	72.43 67.30	4.90	
3 N.E.S. PL	73.64 69.00	4.60	
3+67	75.09 70.00	5.10	5.1 6.1 4.0

Br. G Left.

Sta	Elev Gr	Cut	
0	68.82 62.90	5.90	=Sta 35 Br 3 Left
1	69.62 64.00	5.60	
2	70.98 65.10	5.90	
3	71.78 66.20	6.60	
4	72.78 67.30	5.50	
5	73.27 68.40	4.90	
6 E.W. PL 6+93	73.91 68.80	5.10	
7	74.03 69.20	4.83	
8	74.73 69.60	5.10	
9	75.38 70.00	5.40	
10	75.65 70.40	5.30	
W.F.L. 10+3			
℄ Hwy 10+42	78 01		
E.F.L. 10+82			
11	76.47 70.80	5.70	
12	76.16 71.20	5.00	
13	76.69 71.60	5.10	
14	77.33 72.00	5.30	

Br. G Left.

Sta	Elev	Gr	Cut	Av Cut	Max Cut	Min Cut
15	77.99	72.40	5.60			
16	78.79	72.80	6.00	5.4	6.0	4.9
17	80.22	74.00	6.20			
℄ 17+40						
18	81.27	75.20	6.10			
19	81.98	76.40	5.60			
20	82.71	77.60	5.10			
21	83.48	78.80	4.70			
22	84.43	80.00	4.40			
N.FL. 22+43						
℄ Hwy 22+59	86.78					
S.FL. 22+86	86.79	81.03	5.70	5.5	6.2	4.4

37.93 ℄ Br 3

Br. H. Left.

Sta	Elev	Gr	Cut	Av Cut	Max Cut	Min Cut
0	58.44	52.35	6.10	=Sta 9+50 Br 3 Left.		
1	59.38	53.05	6.30			
2	60.16	53.75	6.40			
3	60.19	54.45	5.70			
4	60.90	55.15	5.80			
5	61.60	55.85	5.80			
in ditch						
6	61.11	56.55	4.60			
in ditch						
7	62.12	57.25	4.90			
℄ 8	63.35	57.95	5.40			
9	64.11	58.75	5.40			
10	64.92	59.55	5.40	5.6	6.4	4.6
11	65.81	60.35	5.50			
W.FL. 11+05						
℄ Hwy. 11+31	68.20					
E.FL. 11+56						
12	66.76	61.15	5.60			
12+50						
13	67.42	61.90	5.50			
14	67.93	62.75	5.20			

Br. H. Left.

Sta	Elev. Gr.	Cut	Av. Cut	Max. Cut	Min. Cut
15	68.98 63.55	4.90			
16	69.89 64.35	5.50			
17	70.64 65.15	5.50			
18	71.43 65.95	5.50			
19	72.68 66.75	5.90			
20	72.61 67.55	5.10			
21	73.67 68.35	5.30			
22	74.61 69.15	5.50			
23	75.22 69.95	5.30			
E. & W. F.L. 23+83	77.16 70.61	6.60	5.4	6.6	4.9

Br. I. Left.

Sta	Elev. Gr.	Cut	Av. Cut	Max. Cut	Min. Cut
0	63.35 58.00	5.40	=Sta. 8. Br. H. left		
1	64.72 59.20	5.50			
2	65.83 60.40	5.40			
N.F.L. 2+48					
℄ Hwy 2+76	67.95				
3	66.70 61.60	5.10			
S.F.L. 3+03					
4	67.31 62.80	4.50			
W.F.L. 4+06					
℄ Hwy 4+44	68.56				
4+83	67.70 63.80	3.90	5.10	5.50	3.90

Br J Left

				Av	Max Cut	Min Cut
0	80.27	74.55	5.70	=Sta 67 Br 3 Left		
1	80.52	76.20	5.30			
2	81.25	75.85	5.40			
3	81.83	76.50	5.30			
4	82.38	77.15	5.20			
5	82.64	77.80	4.80			
6	83.49	78.45	5.00			
7	84.20	79.10	5.10			
8	84.97	79.75	5.20			
9	85.99	80.40	5.10			
10	86.04	81.05	5.00			
11	85.96	81.35	4.60			
12	86.23	81.65	4.70			
13	87.19	81.95	5.20			
S.F.L. 13+55						
℄ Hwy 13+62	88.04					
14	87.49	82.25	5.20			
N.F.L. 14+14	88.36	82.29	6.10	5.20	6.10	4.60

Br K Left.

				Av	Max Cut	Min Cut
0	82.64	77.80	4.80	=Sta 5 Br J Left		
1	83.12	78.50	4.60			
2	83.99	79.20	4.80			
3	84.20	79.90	4.30			
4	85.04	80.60	4.40			
N&S.F. 5	86.65	81.30	5.40	4.70	5.40	4.30

Br L Left.

0	84.44	79.60	4.80	=Sta 96 Br 3 Left		
1	84.55	80.00	4.60			
2	84.91	80.40	4.50			
3	85.33	80.80	4.50			
4	86.49	81.60	4.90			
5	87.46	82.40	5.10			
N&S.F. 5+64	88.39	82.91	5.60	4.9	5.6	4.5

Br M. Left

Sta	Elev	Gr	Cut.	Ay	MAX Cut	MIN Cut
0	83.12	78.10	5.00	=Sta 74 Br 3 Left		
1	83.57	78.75	4.80			
2	84.38	79.40	5.00			
3	85.22	80.05	5.20			
4	85.87	80.70	5.20			
L. 4+46						
L. 4+50						
5	86.23	81.35	4.90			
6	87.27	82.00	5.30			
7	88.13	82.65	5.50			
8	89.41	83.30	6.10			
9	89.30	83.95	5.30			
10	89.65	84.60	5.10			
11	90.42	85.25	5.20			
12	91.57	85.90	5.60	5.2	6.1	4.8
12+93						
13	92.26	86.55	5.70			
14	92.77	87.20	5.60			
E&W Rt. 14+38	93.58	87.45	6.13	5.7	6.1	5.6

Br. N. Left.

Sta	Elev	Gr	Cut	Ay	MAX Cut	MIN Cut
0	91.54	85.90	5.60	=Sta. 12. Br. M. L.		
1	92.28	88.20	4.10			
E&W Rt. 1+95	94.09	89.27	4.90	4.5	5.6	3.7

Br. O Left.

0	90.22	85.40	4.80	=Sta 85 Br. 3 Left.		
1	90.95	86.30	4.70			
2	91.54	87.20	4.30			
3	93.13	88.10	5.00			
nOHGb. 4	92.99	89.10	3.90			
5	94.30	89.90	4.40			
N. &S. FL 5+23						
6	95.30	90.80	4.50			
7	96.67	91.70	5.00			
8	97.75	92.60	5.20			
9	97.70	93.50	4.20			
10	98.65	94.40	4.20			
11	100.53	95.30	5.20			
12	101.73	96.20	5.50			
E&W Rt. 12+13	102.89	96.32	6.60	4.7	6.6	4.2

Br. P. Left.

Sta	Elev Gr	Cut	Av	MAX Cut	MIN Cut
0	95.01 90.20	4.80	=Sta 5+33 Br. O. Left		
E.&W.R. 0+86	96.16 91.49	4.67	4.7	3.7	4.8

Br. 4. Left.

0	56.48 50.70	5.80	=Sta 66 Main			
1	56.78 52.50	4.30				
2	58.72 54.30	4.40				
3	61.41 56.10	5.30				
4	63.90 58.60	5.30				
N.F.L. 4+44						
L. Hwy 4+67	66.66 60.28	6.40				
S.F.L. 4+91	66.76 60.87	5.90	5.2	5.9	4.4	

Br. 5. Left.

0	56.99 52.30	4.70	=Sta 74 Main			
1	58.23 54.10	4.10				
2	62.00 55.90	6.10				
3	63.25 57.70	5.60				
4	64.06 59.50	4.60				
L. Hwy 4+58	66.18					
S.F.L. 4+84	65.31 61.01	4.30	4.9	6.1	4.	

Sta 4+33 = N.F.L.

Br. 6. Left.

Sta	Elev Gr	Cut	Av	MAX Cut	MIN Cut
0	63.23 57.30	5.90	=Sta 100 Main.		
1	63.16 58.10	5.10			
2	64.32 58.90	5.40			
3	65.27 59.70	5.60			
4	66.38 60.50	5.90			
E.&W.R. 4+26					
4+50					
5	67.43 61.30	6.10			
6	68.05 62.10	5.90			
7	68.59 62.90	5.70			
8	68.58 63.70	4.90			
9	70.20 64.50	5.70			
10	71.35 65.30	5.10	5.7	6.1	4.9
11	71.91 66.10	5.80			
12	72.45 66.90	5.60			
N.&S.R.R. 12+97					
L 13	72.90 67.70	5.20			
14	73.64 68.50	5.10			
15	74.05 69.30	4.80			

Br. 6. Left.

Sta	Elev Gr	Cut	Av	Max Cut	Min Cut
16	74.81 70.10	4.70			
17	75.35 70.90	4.50			
18	76.45 71.70	4.80			
19	77.34 72.50	4.80			
20	78.10 73.30	4.80			
℄ 21	78.71 74.00	4.70	5.1	6.1	4.
22	79.46 74.70	4.80			
23	80.54 75.40	5.10			
24	81.24 76.10	5.10			
25	81.95 76.80	5.20			
26	8249 77.50	5.00			
27	82.70 78.20	4.50			
28	83.30 78.90	4.40			
29	84.23 79.60	4.60			
E.&W.R. 29+57	85.83 80.00	5.80	4.8	5.8	3.

Br. 7. Left.

0	63.35	58.00	5.40	=Sta 103 Main		
1	63.80	58.50	5.30			
2	64.30	59.00	5.30			
E.&W.R. 2+18	64.69	59.10	5.60	5.3	5.6	3

Br. 8 Left.

Sta	Elev Gr	Cut	Av	Max Cut	Min Cut
0	69.97 64.90	5.10	=Sta 131 Main		
Ditch. 0+50	67.36				
1	70.54 65.40	5.10			
2	70.96 65.90	5.10			
3	71.42 66.40	5.00			
4	71.63 66.90	4.70			
5	72.40 67.40	5.00			
6	73.04 67.90	5.10			
7	73.44 68.40	5.00			
8	73.90 68.90	5.00			
9	74.49 69.40	5.10			
10	75.22 69.90	5.30			
W.F.L. 0+26					
℄ Hwy 10+57	77.29				
E.F.L. 10+89					
11	76.11 70.40	5.70			
11+25					
12	76.98 70.90	6.10	5.7	6.1	4.7
13	77.55 71.40	6.10			

Br. 8 Left

Sta	L			Av	Max Cut	Min Cut
14	78.15	71.90	6.25			
15	78.31	72.40	5.90			
16	78.37	72.90	5.60			
17	79.03	73.40	5.60			
18	79.60	73.90	5.70			
19	78.98	74.40	4.60			
N.F.L. 19+46						
℄ Hwy. 19+80	82.10					
20	79.55	74.90	4.70			
S.F.L. 20+15						
21	81.08	75.40	5.70			
22	81.48	75.90	5.60			
23	82.05	76.40	5.70			
24	82.43	76.90	5.50	5.6	6.1	4.6
25	83.23	77.70	5.50			
26	83.72	78.50	5.20			
27	84.59	79.30	5.30			
28	85.66	80.10	5.60			
29	86.54	80.90	5.60			

Br 8 Left.

				Av	Max Cut	Min Cut
30	87.32	81.70	5.60			
31	88.24	82.50	5.70			
32	88.72	83.30	5.40			
N.F.L. 32+66	89.24	83.80	5.40	5.5	5.7	5.2

Br. Q. Left

0	76.14	70.60	5.50	= Sta 11+25 Br 8 Left
1	76.68	71.10	5.60	
2	77.10	71.60	5.50	
3	77.52	72.10	5.40	
4	77.79	72.60	5.20	
5	78.43	73.10	5.30	
6	79.08	73.60	5.50	
7	79.57	74.10	5.50	
8	79.98	74.60	5.40	
9	80.23	75.10	5.10	
10	80.97	75.60	5.40	
11	81.52	76.10	5.40	
12	82.08	76.60	5.50	

Br. Q Left.

				Av	Max Cut	Min Cut
13	82.27	77.10	5.20			
14	83.26	77.60	5.70			
N.&S.R.R. 14+64						
L: 14+75						
15	84.55	79.20	5.40			
N.F.L. 15+44						
℄ Hwy 15+77	85.52	80.50	5.00			
16	85.37	80.80	4.50			
S.F.L. 16+10	85.67	80.96	4.70	5.4	6.5	4.5

Br. 9 Left.

0	72.65	69.00	3.70			
1	75.77	69.60	6.20			
2	75.70	70.20	5.50			
3	76.27	70.80	5.50			
L: 3+79.						
4	76.58	71.40	5.20			
5	77.10	72.00	5.10			
6	77.68	72.50	5.20			

Br. 9 Left.

				Av	Max Cut	Min Cut
7	78.05	73.00	5.00			
8	78.77	73.50	5.30			
N.&S.R.R. 8+05						
9	79.13	74.00	5.10			
10	79.69	74.50	5.20	5.2	6.2	3.7
11	80.21	75.00	5.20			
12	80.49	75.50	5.00			
13	80.37	76.00	4.40			
14	81.67	76.50	5.20			
15	82.21	77.00	5.20			
16	82.97	77.63	5.30			
17	83.62	78.26	5.40			
18	84.06	78.89	5.20			
19	84.72	79.42	5.30			
20	85.18	80.05	5.10	5.0	5.3	4.4
E.&W.R.R. 20+50						
21	85.91	80.68	5.20			
22	86.54	81.31	5.20			
23	86.82	81.94	4.90			

Br. 9 Left.

			Av Cut	Max	Min
W.F.L. 23+73					
29	88.79	82.57	6.20		
L. Hwy 24+12	89.41				
E.F.L. 24+51					
25	88.28	83.20	5.10		
26	89.73	83.83	5.90		
27	89.68	84.46	5.20		
28	90.33	85.09	5.20		
29	91.33	85.72	5.60		
30	92.05	86.35	5.70		
31	92.75	86.98	5.30		
32	92.95	87.61	5.30		
33	93.64	88.24	5.40		
34	94.51	88.97	5.50		
35	95.90	90.27	5.60		
36	95.97	91.57	4.40		
E. & W.R.R. 36+91	97.78	92.75	5.00	5.3	6.2 4.9

Br. 10 Left.

			Av Cut	Max	Min
0	78.25	72.50	5.70	= Sta 162 Main	
E. & W.R.R. 0+71	79.13	74.20	4.90	5.2	4.9

Br. 11 Left

0	78.00	72.85	5.10	= Sta. 163 Main	
1	78.86	73.35	5.50		
2	79.40	73.85	5.50		
3	79.93	74.33	5.60		
4	80.00	74.85	5.20		
4+50					
5	80.55	75.35	5.20		
6	81.27	75.85	5.40		
7	82.03	76.33	5.70		
8	82.17	76.85	5.30		
N.G.S.R.R. 8+09					
9	82.57	77.35	5.20		
9+93					
10	82.68	77.85	4.80	5.3	5.7 4.8
11	83.06	78.35	4.70		

Br 11 Left.

				Av	Max Cut	Min Cut
10 Ditch						
12	83.16	78.85	5.30			
13	83.72	79.35	4.40			
14	84.50	79.85	4.70			
15	85.29	80.35	4.90			
16	85.90	80.85	5.00			
17	87.15	81.35	5.80			
E. & W. TE 17+84	87.29	81.78	5.50	4.9	5.5	4.4

Br 12 Left

0	84.37	79.15	5.20	= Sta 177 Main		
1	84.89	79.75	5.10			
2	85.45	80.35	5.10			
3	86.18	80.95	5.20			
4	87.21	81.55	5.70			
5	88.56	82.15	6.40			
in pond						
6	87.58	81.75	5.80			
Pond	87.11					
in Pond 7	88.41	83.35	6.10			
E. & W. TE 7+67	88.64	83.75	4.90	5.3	6.4	3.7

Br 1 Right.

				Av	Max Cut	Min Cut
0	43.01	41.00	2.00	= Sta 7 Main		
L 1	48.89	42.20	6.70			
2	49.37	43.40	6.00			
3	49.88	44.60	5.30			
4	50.78	45.80	5.00			
5	51.91	47.00	4.90			
6	53.34	48.20	5.10			
7	54.52	49.40	5.10			
8	55.08	50.60	4.50			
9	56.28	51.80	4.50			
EFL 9+42						
L Hwy 9+68	58.77	52.62	6.20			
WFL 9+94						
10	57.56	53.00	4.56			
11	59.95	54.80	5.10			
S.F.L. 11+87						
12	62.01	56.60	5.40			
L Hwy 12+35	63.27	57.23				
N.F.L. 12+88	62.50	58.18	4.30	5.7	6.7	4.3

Br. A. Right.

			Av	Max Cut	Min Cut
0	50.78	45.80	5.00		=5+9.4 B.R.
1	52.65	47.60	5.10		
S.F.L. 1+42 & Hwy 1+80	57.38				
2 N.F.L. 2+19 & 2+50	53.00	49.40	3.60		
3	56.58	51.20	5.40		
4	58.05	53.00	5.00		
5	59.67	54.80	4.80		
6 N.&S.Ft. 6+16	60.55	56.60	3.90	4.7	5.4 3.6
	61.75	56.89	4.90		

Br. 2. Right.

			Av	Max Cut	Min Cut
0	50.32	45.10	5.20		=5+9.28 Main
1	49.84	45.70	4.10		
2 N.&S.Ft.	50.04	46.30	3.70		
3	51.97	46.90	5.00	4.5	3.7 3.7
4	53.45	48.00	5.50		
5	55.57	49.10	6.50		
6	56.81	50.20	6.60		
7	57.97	51.30	6.60		
8	58.59	52.40	6.19		
9	59.49	53.50	5.90		
10	60.47	54.60	5.90		
11	61.63	55.70	5.90		
12 E.&W.Ft. 12+09	62.42	56.80	5.60		
13	63.45	57.90	5.60		
14	64.47	59.00	5.50		
15	65.31	60.10	5.20		
16	66.21	61.20	5.00		
17	67.68	62.30	5.40		

Br. 2. Right.

				Av	Max Cut	Min Cut	Av	Max Cut	Min Cut
18	68.76	63.40	5.40						
19	70.10	64.50	5.60						
20	71.32	65.60	5.70						
21	72.18	66.70	5.40						
22	73.27	67.80	5.40						
23	74.45	68.90	5.60	5.7	6.6	5.0			
24	75.60	70.00	5.70						
25	76.70	71.10	5.60						
26	77.91	72.20	5.70						
27	78.16	73.30	4.90						
S.F.L. 27+59									
E.Hwy. 27+95	80.98								
28	80.92	74.40	6.50						
N.F.L. 28+31	80.42	74.74	5.70	5.7	6.5	4.9			

Br. B. Right.

				Av	Max Cut	Min Cut
0	50.04	46.30	3.50	=Sta 2 Br-2 Right.		
1	51.92	47.30	4.40			
2	53.71	48.30	5.20			
N.F.S.T.B. 2+62						
3	54.47	49.50	5.10			
4	57.14	50.50	6.60			
E&W.T.B. 4+52						
5	58.00	51.50	6.50			
5+50						
6	59.35	52.50	6.80			
7	60.28	53.50	6.80			
8	60.91	54.50	6.40			
9	61.55	55.50	6.00			
10	62.15	56.50	5.60	5.7	6.8	3.5
11	62.90	57.50	5.40			
12	63.59	58.50	5.10			
13	64.37	59.60	4.90			
14	65.42	60.50	4.90			
15	67.14	61.50	5.60			

Br. B. Right.

				Av	Max Cut	Min Cut
	16	68.28	62.50	5.80		
	17	69.78	63.50	6.30		
	18	71.06	64.50	6.60		
L	18+50					
	S.F.L.					
	18+59					
	& Hwy.					
	18+96	72.83				
	19	71.73	65.50	6.20		
	N.F.L.					
	19+34					
	20	72.14	66.50	5.60	5.6	6.3 4.9
	21	72.39	67.50	4.90		
	22	73.54	68.50	5.00		
L	22+26					
	23	74.21	69.50	4.70		
	24	74.63	70.50	4.10		
	25	75.78	71.50	4.20		
	26	77.29	72.50	4.80		
	27	78.04	73.50	4.50		
	28	78.88	74.50	4.40		
	N.&S.R.					
	28+89	80.19	75.40	4.80	4.7	5.6 4.

Br. 3. Right

			Av	Max Cut	Min Cut
0	51.30	45.80	5.30	=5+936 Main	
1	51.92	46.60	5.30		
2	53.02	47.40	5.60		
3	52.00	48.20	3.80		
3+89					
4	53.09	49.00	4.00		
5	55.21	49.80	5.40	4.9	5.6 3.8
6	55.66	50.60	5.10		
7	56.42	51.40	5.00		
8	57.09	52.20	4.90		
9	58.09	53.10	5.10		
10	58.86	53.80	5.10		
11	59.82	54.60	5.20		
N&S R					
11+65					
12	60.94	55.40	5.50		
13	61.85	56.30	5.70		
14	62.52	57.00	5.50		
15	63.56	57.80	5.80		
16	63.97	58.60	5.40		

Br 3 Right

				Av	Max Cut	Min Cut
	5860					
17	64.68	59.40	5.30			
18	65.61	60.20	5.40			
19	67.09	61.00	6.10			
20	68.29	~~61.80~~	~~6.50~~			
21	69.63	63.80	5.80			
22	70.64	65.80	4.80			
23	71.91	67.80	4.10			
E.&W.Fl. 23+19	72.48	68.19	4.30	5.3	6.5	4.1

Br. 4. Right.

0	53.90	48.00	4.90	=Sta 50 Main
1	53.52	48.60	4.90	
2	53.77	49.30	4.60	
N.&S.Fl. 2+21	53.91	49.33	4.60	4.7 4.9 4.6

Br. 6. Right.

				Av	Max Cut	Min Cut
0	55.21	49.80	5.40	=Sta. 5 Br 3 Right.		
1	55.14	50.40	4.70			
2	55.98	51.00	5.00			
3	57.70	52.60	5.10			
4	59.78	54.20	5.60			
5	60.33	55.80	4.50			
E.&W.Fl. 5+86						
6	62.09	57.40	4.70			
N.&S.Fl. 6+59	63.53	58.34	5.20	4.9	5.6	4.5

Br. 5. Right.

Sta New 0 - New 24+75 = old 9+80

~~54~~

= Sta ~~77~~ Main

~~0 58.59~~

10 creek

~~1 56.58~~

~~2 59.08~~

℄ 24+75

~~3 59.87~~

~~4 60.55~~

~~5 59.74~~

~~6 60.19~~

10 Ditch.

~~6+65 57.88~~

~~7 60.09~~

~~8 60.43~~

S.F.L. ~~8+30~~

℄ Hwy ~~8+56~~ 61.39

H.F.L. ~~8+87~~

Elevs New 0 to New 24+75 on Page 119

8 20

24+75

9+80

.95

32.4

BM #1 Elev. 63.13

old 9+80	60.43	54.44	6.00	= New 24+75
10	60.39	54.50	5.90	
11	60.67	54.76	5.90	
12	60.79	55.02	5.80	
13	61.11	55.28	5.80	

Br. 5 Right.

				Av. Cut	Max Cut	Min Cut
14	61.46	55.54	5.90			
15	61.64	55.80	5.80			
16	61.92	56.06	5.90			
17	62.16	56.32	5.80			
18	62.47	56.58	5.90	~~68~~	~~83~~	5.6
19	62.64	56.84	5.80			
20	62.97	57.10	5.90			
21	63.05	57.36	5.70			
22	63.38	57.62	5.80			
23	63.58	57.88	5.70			
24	63.79	58.14	5.70			
25	64.12	58.40	5.70			
26	64.41	58.66	5.80			
27	64.55	58.92	5.60			
7+50						
28	65.12	59.18	5.90	~~58~~	~~59~~	5.6
0 Ditch.						
28+95	63.58					
29	65.06	59.44	5.60			
30	65.77	59.70	6.10			

Br. 5 Right.

31	66.07	59.96	6.10
32	66.39	60.22	6.20
33	66.79	60.48	6.30
34	65.91	60.71	5.20
Ditch			
35	65.70	61.00	4.70
36	67.04	61.35	5.70
E. & W. PL			
36+94			
B.M. #2	67.69		
37	67.83	61.73	6.10
N. & S. PL.			
37+95			
38	68.42	62.05	6.40
39	68.62	62.40	6.20
40	68.82	62.75	6.10
41	69.39	63.10	6.30
42	68.98	63.45	5.50
43	70.57	63.80	6.80
44	71.02	64.15	6.90
L 45	71.23	64.50	6.70
46	70.94	64.85	6.10

Br. 5. Right.

				Av Cut	Max Cut	Min Cut
47	70.82	65.20	5.60			
48	71.14	65.55	5.60			
49	72.06	65.90	6.20	6.0	6.9	5.2
N. & S. PL.						
49+06						
50	72.22	66.25	6.00			
S. PL.						
50+25						
℄ Hwy.						
50+48	74.08					
N. F. L.						
50+83	B.M. #3 Elev. 73.69					
51	72.18	66.60	5.60			
52	72.61	66.95	5.70			
53	72.64	67.30	5.30			
54	73.38	67.65	5.70			
55	73.99	68.00	6.00			
56	74.72	68.35	6.40			
57	75.23	68.70	6.50			
58	75.77	69.05	6.70			
59	75.98	69.40	6.60			
Ditch						
60	74.81	69.75	5.10	6.0	6.7	5.3
61	76.57	70.10	6.50			

Br. 5. Right

62	76.78	70.45	5.80
63	76.38	70.80	5.60
64	76.75	71.15	5.60
E&WPL 64+04			
65	77.80	71.50	6.30
66	77.26	71.85	5.40
67	76.91	72.20	4.70
68	77.06	72.55	4.50
69	77.74	72.90	4.80
70	78.21	73.25	5.00
71	78.77	73.60	5.10
72	78.97	73.95	5.00
73	79.19	74.30	4.90
74	79.45	74.65	5.80
75	80.00	75.00	5.00
76	80.36	75.35	5.00
77	80.80	75.70	5.10
78	81.31	76.05	5.30
79	81.89	76.40	5.50

Br. 5. Right.

				Av. Cut	Max. Cut	Diff
80	82.49	76.75	5.70			
81	82.39	77.10	5.20			
82	84.67	77.45	7.20			
83	83.52	77.80	5.70			
83+67	83.52	77.80	5.70	5.4	7.2	4.5
W.F.L. 83+89	BM #4 Elev 88.48					
84	83.82	78.15	5.70			
℄ Hwy 84+27	85.53					
E.F.L. 84+58						
85	83.51	78.50	5.00	5.5	5.70	5.0
86	84.53	79.80	4.70			
87	86.31	81.10	5.20			
88	88.16	82.40	5.80			
89	89.51	83.70	5.80			
90	90.63	85.00	5.60			
91	90.92	85.60	5.30			
92	91.75	86.20	5.50			
93	92.66	86.80	5.90			
94	93.36	87.40	6.00			

Br. 5 Right.

				Av	Max Cut	Min Cut
95	93.49	88.00	5.50			
96	93.68	88.60	5.10			
97	94.39	89.20	5.20			
98	95.14	89.80	5.30			
E. & W. Rd. 98+81						
99	95.73	90.40	5.30			
N. & S. Rd. 99+20	95.87	90.50	5.40	5.4	6.0	4.7

Br D Right

0	71.23	65.00	6.20	=5+45 Br. 5		
1	71.14	66.00	5.10			
2	72.84	67.00	5.80			
3	73.30	68.00	5.30			
4	74.06	69.00	5.10			
5	74.86	70.00	4.90			
6	75.71	70.80	4.90			
7	76.99	71.60	5.40			
8	78.00	72.40	5.60			
9	78.91	73.20	5.70			

Br. D. Right.

				Av	Max Cut	Min Cut
9+50						
10	79.56	74.00	5.60			
11	80.11	74.80	5.30			
12	80.24	75.60	4.60			
12+50 N. & S. Rd. 12+85						
13	81.32	76.40	4.90			
14	81.86	77.20	4.70			
S. Fl. 15	82.56	78.00	4.60			
℄ Hwy 15+33	84.00	78.26	5.70			
N. Fl. 15+67	83.26	78.54	4.70	5.2	6.2	4.6
B.M. #1	84.04					

Br. E. Right.

0	72.06	66.25	5.81	=5+49 Br 5 Right.		
1	71.94	67.45	4.50			
S Fl. 1+18						
℄ Hwy 1+48	73.51	68.02	5.50			
N. Fl. 1+70	72.79	68.29	4.50	4.9	5.8	4.5

Br. F Right.

			Av	MAX Cut	MIN Cut	
0	74.81	70.20	4.60			=Sta 60 Br. F Right
1	76.35	71.20	5.10			
WFL. 1+09						
℄ HWY 1+41	77.94	71.61	6.30			
EFL. 1+74	76.56	71.94	5.60	5.0	5.6	4.6

Br. G Right.

			Av	MAX Cut	MIN Cut	
0	83.53	78.34	5.20			=Sta 83+67 Br. G. R.
E&W. FL. 0+95						
1	83.71	78.79	4.90			
2	84.25	79.24	5.00	5.0	5.2	4.9
3	84.58	79.69	4.90			
4	85.08	80.14	4.90			
5	85.62	80.59	5.00			
6	86.07	81.04	5.00			
7	86.51	81.49	5.00			
8	86.78	81.94	4.80			
9	87.67	82.39	5.30			
E&W. FL. 9+11						

Br G Right

			Av	MAX Cut	MIN Cut	
L. 10 Pond	89.29	82.84	6.40			
11	88.10	83.29	4.80	5.1	6.4	4.8
12	88.60	83.74	4.90			
13	89.92	84.44	5.50			
14	90.41	85.14	5.30			
15	90.87	85.84	5.00			
16	91.52	86.54	5.00			
17	92.80	87.24	5.60			
L. 18	92.81	87.94	4.90			
19	93.44	88.64	4.80			
20	94.07	89.34	4.70			
W. E. S. FL. 20+49	94.98	89.68	5.30	5.1	5.6	4.7

Br H Right

			Av	MAX Cut	MIN Cut	
0	84.25	79.44	4.80			=Sta 2 Br. G. Right.
1	84.49	79.94	4.60			
2	85.17	80.49	4.70			
3	85.89	80.94	5.00			
4	86.35	81.44	4.90			
5	86.67	81.94	4.70			
E&W. FL. 5+77	87.11	82.32	4.80	5.1	6.7	4.6

Br. I. Right.

				Av Cut	Max Cut	Min Cut
0	88.10	83.40	4.70	=Sta 11.Br 6 Right		
1	89.53	83.70	5.80			
2	90.08	84.00	6.10			
3	89.92	84.30	5.40			
4	90.00	84.60	5.40			
5	89.99	84.90	5.10			
6	90.00	85.30	4.70			
N.85. TE. 6+55						
7	90.82	85.50	5.30			
8	91.41	85.80	5.60			
9	91.69	86.10	5.60			
10	92.38	86.40	6.00	5.9	6.1	1.7
11	92.96	87.30	5.50			
12	94.11	88.60	5.50			
13	94.82	89.70	5.10			
14	95.92	90.80	5.10			
15	97.48	91.90	5.60			
16	98.87	93.00	5.90			
17	99.31	94.10	5.20	5.5	5.9	5.1

Br. I Right

				Av Cut	Max Cut	Min Cut
18	100.24	95.20	5.00			
19	100.81	96.30	4.50			
20	101.99	97.40	4.60			
N.85. TE. 20+71	102.93	98.18	4.80	4.8	5.0	4.5

Br. J Right.

0	64.81	59.40	5.40	=Sta 27+50 Br 5 Right
1	64.82	59.70	5.10	
2	65.20	60.00	5.20	
3	65.44	60.30	5.10	
4	65.93	60.60	5.33	
5	66.07	60.90	5.20	
6	65.97	61.20	4.80	
7	66.12	61.50	4.60	
8	66.61	61.80	4.80	
9	66.97	62.10	4.90	
9+50				
10	67.53	62.40	5.10	
11	67.85	62.70	5.20	

Br. J. Right.

				Av Cut	Max Cut	Min Cut
12	68.01	63.00	5.00			
13	68.57	63.30	5.30	5.1	5.40	4.6
E.&W. Ft. 13+87						
14	69.25	63.80	5.40			
15	69.83	64.30	5.50			
E.F.L. 15+93						
16	70.52	64.80	5.70			
E. Hwy 16+34	71.66	64.97	6.70			
W.F.L. 16+74						
17	70.36	65.30	5.10			
18	70.91	65.80	5.10			
19	71.25	66.30	5.00			
20	71.88	66.80	5.10			
21	72.78	67.30	5.50			
22	73.26	67.80	5.50			
23	74.24	68.30	5.90			
24	74.63	68.80	5.80			
25	74.88	69.30	5.60			
26	75.06	69.80	5.30			

				Av Cut	Max Cut	Min Cut
27	75.67	70.30	5.40			
28	76.10	70.80	5.30			
29	76.63	71.30	5.30	5.4	5.90	5.00
30	77.24	71.80	5.40			
31	77.47	72.30	5.20			
32	77.97	72.80	5.20			
33	78.47	73.30	5.20			
SFL 33+57						
E Hwy 33+97	80.29	73.78	6.50			
34	80.34	73.80	6.50			
N. FL 34+33						
N&S. Ft. 34+82						
35	79.71	74.30	5.40			
36	79.84	74.70	5.10			
37	80.36	75.10	5.30			
38	80.97	75.50	5.50			
39	81.39	75.90	5.50			
40	81.30	76.30	5.00	5.4	6.5	5.0
41	82.42	77.00	5.40			

Br. J. Right.

				Av Cut	Max Cut	Min Cut
42	82.96	77.70	5.30			
43	84.18	78.40	5.80			
44	85.01	79.10	5.90			
45	84.91	79.80	5.10			
46	85.17	80.50	4.70			
47	85.68	81.20	4.50			
48	86.75	81.90	4.90			
49	87.55	82.60	4.90			
50	88.27	83.30	5.00	5.1	5.3	4.9
51	89.25	84.20	5.10			
52	90.46	85.40	5.20			
53	91.20	86.00	5.20			
E.8.W.Fe 53+85	92.27	86.76	5.50	5.2	5.5	5.0

Br. K. Right.

				Av Cut	Max Cut	Min Cut	
0	71.88	66.90	4.98				=Sta 20 Br. J Right.
1	71.58	67.53	4.00				
2	72.36	68.16	4.20				
3	73.07	68.79	4.30				
4	74.13	69.72	4.70				
5	74.85	70.05	4.80				
6	75.81	70.68	4.60				
7	76.50	71.31	5.20				
8	77.20	71.94	5.30				
9	77.98	72.57	5.40				
S.F.L. 9+17 E.Hwy							
9+47 N.F.L.	79.39						
9+68							
L 10	78.31	73.20	5.10	4.8	5.4	4.0	
11	79.16	73.83	5.30				
12	79.72	74.46	5.30				
13	80.57	75.09	5.50				
14	81.21	75.72	5.50				
15	81.99	76.35	5.60				

Br. K. Right.

				Av	Max Cut	Min Cut
16	82.66	76.98	5.70			
17	82.86	77.61	5.30			
18	83.23	78.24	5.00			
L 19	83.97	78.87	5.10			
20	84.76	79.50	5.30	5.3	5.7	5.1
21	85.02	80.13	4.90			
22	85.42	80.76	4.70			
23	86.22	81 39	4.80			
E&W Tr. 23+89	87.18	81.95	5.20	5.0	5.3	4.7

Br. L. Right.

0	84.76	79.70	5.10	=Sta 30 Br. K. Right
1	85.50	80.10	5.40	
2	85.51	80.50	5.00	
3	85.59	80.90	4.70	
4	86.52	81.30	5.20	
5	87.54	82.70	4.80	
6	88.50	84.10	4.40	
7	90.01	85.50	4.50	
N.&S. Tr. 74 38	90.69	86.03	4.70	4.9 5.4 4.

Br. M. Right.

				Av	Max Cut	Min Cut
0	76.63	71.50	5.10	=Sta 29. Br. J. Right.		
1	77.00	72.10	4.90			
2	77.82	72.70	5.10			
3	78.54	73.30	5.20			
3+50						
4	79.19	73 90	5.30			
5	79.68	74.50	5.20			
6	80.21	75.10	5.10			
7	80.92	75.70	5.20			
L 8	81.12	76.30	4.80			
9	82.23	77.15	5.10			
10	83.16	78.00	5.20			
11	83.95	78.85	5.10			
12	84.61	79.70	4.90			
13	85.50	80.55	5.00			
14	86.30	81.40	4.90			
15	86.97	82 25	4.70			
16	87.71	83.10	4.60			
17	89.29	83.95	5.30			
N.&S. Tr. 17+12	88.85	84.06	4.80	5.0	5.3	4.6

Br. 6. Right.

0	60.63	55.10	5.50 = Sta 90 Main
1	61.56	55.40	6.20
2	61.65	55.70	5.90
3	61.75	56.00	5.70
4	62.45	56.30	6.20
5	62.38	56.60	5.80
6	62.41	56.90	6.50
7	62.75	57.20	5.50
L 7+44			
8	63.27	57.50	5.80
9	63.81	57.80	6.00
E.F.L. 10	64.57	58.10	6.50
℄ Hwy 10+37	66.08		
W.F.L. 10+75			
11	64.57	58.40	6.20
12	64.85	58.70	6.20
13	64.94	59.00	5.90
14	65.36	59.30	6.10
15	65.63	59.60	6.00

				Av. Cut	Max Cut	Min Cut
16	66.26	59.90	6.40			
17	66.56	60.20	6.40			
18	67.07	60.50	6.60	5.6	6.6	5.5
S.F.L. 18+79						
19	69.99	60.80	9.70			
℄ Hwy 19+20	69.39					
N.F.L. 19+62						
20	67.55	61.10	6.50			
21	68.33	61.40	6.90			
22	68.37	61.70	6.70			
23	68.69	62.00	6.70			
24	69.34	63.10	6.20	6.9	8.7	6.2
25	70.32	64.20	6.00			
26	71.33	65.30	6.00			
27	72.35	66.40	5.90			
28	73.53	67.50	6.00			
29	73.99	68.60	5.40			
30	74.82	69.70	5.10			
31	75.79	70.80	4.90			

Br 6. Right

			Av Cut	Max Cut	M Cu
32	76.95	71.90	4.90		
33	77.72	73.00	4.70		
34	78.68	74.10	4.60		
E. & W. Tk. 34+20	79.18	74.30	4.90	5.4	6.2

Br N. Right

0	72.35	66.50	5.90	=Sta 27 Br 6 Right
1	73.02	67.90	5.10	
2	74.32	69.30	4.90	
3	75.59	70.70	4.90	
N. & S. Tk. 3+69	76.35	71.67	4.74	5.1

Br O. Right

0	69.34	63.30	6.00	=Sta 24 Br 6 Right
1	69.95	63.90	6.10	
2	70.19	64.30	5.70	
N. & S. Tk. 2+95				
3	70.87	65.10	5.80	
4	70.81	65.70	5.10	
5	71.54	66.30	5.20	
6	72.14	66.80	5.20	
7	72.45	67.50	5.00	
8	73.69	68.10	5.60	
9	74.37	68.70	5.70	
10	74.97	69.30	5.70	
11	75.50	69.90	5.60	
12	76.07	70.50	5.60	
12+39				
13	76.80	71.10	5.70	
14	77.56	71.20	5.90	
15	78.06	72.30	5.80	
16	77.69	72.55	5.10	

Br. O R 1964

				Av Cut	Max Cut	Min Cut
17	77.78	72.80	5.00			
NBS. Pt. 17+65						
18	78.39	73.05	5.30			
19	78.93	73.30	5.60			
20	79.18	73.55	6.60	5.6	6.6	5
Pond 21	78.82	73.80	4.98			
22	79.00	74.05	5.00			
L 23	79.35	74.30	5.10			
24	79.98	74.55	5.40			
25	80.09	74.80	5.20	5.0	6.6	5
26	80.49	75.30	5.20			
27	81.32	75.80	5.40	5.3	5.4	5.
28	81.85	76.30	5.50			
29	82.41	76.80	5.60			
30	82.51	77.30	5.20			
31	82.75	77.80	5.00			
32	83.36	78.30	5.10			
33	83.97	78.80	5.20			
34	84.73	79.30	5.40			

Br O R 1964

				Av Cut	Max Cut	Min Cut
35	85.17	79.80	5.40			
36	85.24	80.30	4.90			
37	85.49	80.80	4.70			
38	85.91	81.30	4.60			
39	86.47	81.80	4.70			
40	87.30	82.30	5.00			
41	87.83	82.80	5.00			
42	87.99	83.30	4.70			
43	88.28	83.80	4.50			
Sta. Pt. 43+51	88.72					
L 44	88.87	84.30	4.50	5.2	5.6	4.5
45	89.61	84.80	4.80			
46	90.31	85.30	4.80			
47	90.90	86.20	4.70			
48	91.61	86.90	5.70			
49	92.39	87.60	4.70			
50	93.45	88.30	5.20			
51	93.95	89.00	5.00			
52	94.80	89.70	5.10			

Br. O. Right

			Av Cut	Max Cut	M
53	95.42	90.40	5.00		
54	96.01	91.10	4.90		
55	96.33	91.80	4.40		
56	97.72	92.50	5.20		
E.F.L.					
56+37					
Ct. Hwy					
56+71	99.42				
57	98.36	93.20	5.20		
W.F.L.					
57+06	98.92	93.24	5.70	4.9	5.7

Br. O. Right

		Av	MAX Cut	MIN Cut	
0	81.22	75.90	5.30	= 5/9 27	Br. O Right
1	82.21	76.50	5.70		
2	82.66	77.10	5.60		
3	83.43	77.70	5.70		
4	83.47	78.30	5.20		
5	83.84	78.90	4.90		
6	84.98	79.30	5.20		
7	84.95	79.70	5.30		
8	85.59	80.10	5.50		
9	86.10	80.50	5.60		
10	85.68	80.90	4.80		
11	86.20	81.30	4.90		
12	86.79	81.70	5.10		
13	86.95	82.10	4.90		
14	87.56	82.50	5.10		
15	87.80	82.90	4.90	5.2	5.7 4.8
16	89.31	83.65	5.70		
17	90.05	84.40	5.70		
18	90.67	85.15	5.60		

Br. T. Right

			Av	Max Cut	Min Cut
19	91.40	85.90	5.50		
20	92.07	86.65	5.40		
21	92.64	87.40	5.20		
E.F.L. 21+81					
22	93.61	88.15	5.10		
C. Hwy. 22+13	94.63				
W.F.L. 22+95					
L. 22+70					
23	93.96	88.90	5.10		
24	94.50	89.65	4.90		
25	95.10	90.40	4.70		
26	95.81	91.15	4.70		
27	96.84	91.90	4.90		
28	97.31	92.65	4.70		
29	98.04	93.40	4.60		
E. & W.T.L. 29+05	98.21	93.45	4.80	9.6	5.7 4.6

Br. W. Right

			Av	Max Cut	Min Cut
0	82.41	77.00	5.40	=54.29 Br. O Right	
1	82.09	77.70	4.40		
2	83.23	78.40	4.80		
3	84.38	79.10	5.30		
4	84.84	79.80	5.00		
L. 5	85.27	80.50	4.80		
6	85.92	81.20	4.70		
7	86.36	81.90	4.50		
8	86.96	82.60	4.40		
9	87.82	83.30	4.50		
10	88.65	84.00	4.30		
11	89.58	84.70	4.90		
E. & W.T.L. 11+79	90.57	85.25	5.30	4.9	5.4 4.3

Br-Q Right

0	67.07	60.80	6.20	=54.18 Br-6 Rig.
1	67.47	62.55	4.92	
2	69.16	64.25	4.90	
3	70.87	65.90	4.90	
4	71.99	66.50	5.50	
8	72.95	67.05	5.40	
6	72.59	67.60	5.00	
7	73.17	68.15	5.00	
8	73.69	68.70	4.90	
9	74.05	69.25	4.80	
10	74.52	69.80	4.70	
11	75.17	70.35	4.80	
12	75.87	70.90	5.00	
13	76.83	71.45	5.40	
14	77.52	72.00	5.50	
15	78.06	72.55	5.50	
16	78.63	73.35	5.30	
17	79.18	74.15	5.00	
18	88.48	74.95	5.60	

				Ar	Max Cut	Min Cut
19	82.73	75.75	7.00			
20	84.39	76.65	7.80			
21	85.59	77.35	8.20			
22	87.41	78.15	4.30			
22+10	84.76	78.23	6.00	5.5	8.7	4.3

Br. 7. Right

			Av Cut	Max Cut	Min Cut
0	65.86	60.22	5.60	=Sta. 114 Main	
1	66.17	60.47	5.70		
10 Ditch 1+60	63.37	60.62	2.80		
2	66.10	60.72	5.40		
3	66.49	60.97	5.50		
4	66.52	61.22	5.30		
M&S.T.E. L 4+34					
5	66.79	61.47	5.30		
6	66.70	61.72	5.00		
7	67.59	61.97	5.60		
8	68.09	62.21	5.80		
9	68.10	62.47	5.63		
10 Ditch 10	66.57	62.72	3.90		
11	69.10	62.79	6.30		
12	69.62	63.22	6.40		
13	70.22	63.47	6.80		
14	70.84	63.72	7.10		
15	71.00	~~63.97~~ 64.00	~~7.00~~ 6.90	x58	7.1 39
16	70.69	64.27	5.40		

Br. 7. Right

			Av Cut	Max Cut	Min Cut
17	71.08	64.57	6.50		
18	71.52	64.87	6.70		
M.&S.T.E. 18+77					
19	71.51	65.17	5.30		
20	71.29	65.47	5.80		
21	72.13	65.77	6.40		
22	72.14	66.07	6.10		
23	72.42	66.37	6.00		
24	72.73	66.67	6.06		
25	72.48	66.97	5.50		
26	72.88	67.27	5.60		
L 27	72.98	67.57	5.40	6.0	7.0 5.3
28	73.39	67.87	5.50		
29	74.08	68.17	5.90		
30	73.80	68.47	5.30		
31	74.03	68.77	5.30		
32	74.57	69.07	5.50		
33	75.17	69.37	5.80		
L 34	75.32	69.67	5.70		

Br. 7 Right

				Av Cut	Max Cut	Min Cut
35	75.72	69.97	5.80			
36	75.88	70.27	5.60			
37	75.78	70.57	5.20			
38	75.96	70.87	5.10			
39	76.46	71.17	5.30			
40	76.53	71.47	5.10			
41	77.02	71.77	5.30			
42	77.37	72.07	5.30	5.4	5.9	5.1
L: 42+50		100				
43	77.83	72.37	5.50			
44	78.01	72.67	5.30			
45	78.41	72.97	5.40			
46	78.44	73.27	5.20			
47	79.09	73.57	5.50			
E.F.L. 47+78						
48	79.55	73.87	5.70			
℄ Hwy 48+12	81.20	73.91	7.30			
W.F.L. 48+46						
L: 49	79.98	74.17	5.80	5.0	5.8	5.2

Br 7 Right

				Av Cut	Max Cut	Min Cut
50	79.32	74.47	4.80			
51	79.66	74.77	4.90			
52	79.72	75.07	4.60			
L: 52+50		300				
53	80.44	75.37	5.10			
54	80.81	75.67	5.10			
55	81.15	75.97	5.20	5.1	5.8	4.6
56	82.11	76.77	5.30			
57	82.63	77.57	5.10			
58	83.32	78.37	5.00			
59	84.17	79.17	5.00			
L: 60	84.79	79.97	4.80	5.0	5.3	4.8
61	85.31	80.77	4.50			
62	86.15	81.57	4.60			
63	87.39	82.37	5.00			
64	88.48	83.17	5.30			
65	88.49	83.97	4.50			
66	89.09	84.77	4.30			
E.S.W.T.E. 66+22	89.41	84.91	4.50	4.7	5.3	4.3

Br. R. Right

			Av Cut	Max Cut	Min Cut	
0	68.10	62.90	5.20			=5+99 Br. R. Right
1	68.89	63.80	5.10			
2	69.56	64.80	5.90			
E. & W. R. 2+41	70.13	65.07	5.10	5.7	5.9	5.1

Br. S. Right.

0	72.98	68.00	5.00			=5+27 Br. S. Right
1	73.68	68.80	4.90			
2	74.69	69.60	5.10			
E. & W. R. 2+15	74.67	69.72				
3	75.41	70.40	5.00			
4	76.08	71.20	4.90			
5	77.04	72.00	5.00			
6	77.80	72.80	5.00			
7	78.87	73.60	5.30			
N. & S. R. 7+18	79.35	73.75	5.60	5.1	5.6	4.9

Br. T. Right

			Av Cut	Max Cut	Min Cut	
0	79.98	74.40	5.60			=5+49 Br. T. Right
1	79.73	74.60	5.10			
2	81.08	74.80	6.30			
E. & W. R. 2+14						
3	81.77	75.00	6.80			
4	81.02	75.20	5.80			
5	80.61	75.40	5.20			
6	80.86	75.60	5.30			
7	81.00	75.80	5.20			
8	81.16	76.00	5.80			
E. & W. R. 8+79						
9	81.66	76.85	4.80			
10	82.56	77.70	4.90	5.5	6.8	5.1
W. FL. 10+62						
11	84.41	78.55	5.90			
4 Hwy. 11+02	84.47	79.0				
E. FL. 11+42						
12	84.18	79.40	4.80			
13	85.11	80.25	4.90			

Br. T. Right.

		Av	Max Cut	Min Cut
14	86.01	81.10	7.90	
15	87.15	81.95	5.20	
16	88.02	82.80	5.20	
5 F 4				
16+99				
17	88.73	83.65	5.10	
℄ Hwy				
17+37	89.87			
N.F.4.				
17+73	89.28	84.27	5.00	5.1 5.9 4.8

Br. U. Right.

		Av	Max Cut	Min Cut
0	79.66	75.00	4.70	Sta 51. Br. T Right.
1	80.77	75.80	5.00	
2	81.36	76.60	4.80	
3	81.99	77.40	4.60	
4	82.67	78.20	4.50	
5	83.76	79.00	4.80	
6	84.46	79.80	4.70	
7	85.22	80.60	4.60	
8	86.96	81.40	5.60	
℄ 8+50				
9	87.16	82.20	5.00	
10	87.76	83.00	4.80	
11	88.15	83.80	4.40	
E.B.W. Rt.				
11+56	88.77	84.25	4.50	4.8 5.6 4.4

Br. 8 Right

		Av	MAX Cut	MIN Cut
0	74.56	68.35	6.20	=Sta. 146+48 Mai.
1	72.91	68.95	4.00	
2	74.23	69.55	4.70	
3	74.40	70.15	4.30	
4	75.82	70.75	5.10	
5	76.51	71.35	5.20	
6	77.31	71.95	5.40	
7	77.64	72.55	5.10	
8	77.88	72.75	5.10	
9	78.16	72.95	5.20	
10	78.78	73.15	5.60	
11	79.32	73.35	6.00	
12	80.89	73.55	7.30	
13	79.10	73.75	5.40	
14	79.00	73.95	5.00	
15	79.36	74.16	5.20	5.4 7.3 1.6
16	79.86	74.35	5.50	
17	79.72	74.55	5.20	
18	79.89	74.75	5.10	

		Av	MAX Cut	MIN Cut
19	80.30	74.95	5.40	
20	80.45	75.15	5.30	
	30+50 N. Hwy Ft. 20+79			
21	82.57	75.65	6.90	
	N.B.S. Ft. 21+75			
22	82.22	76.15	6.10	
23	82.58	76.65	5.90	
24	83.12	77.15	6.00	
25	83.30	77.65	5.70	5.7 6.9 5.1
26	83.95	78.15	5.80	
27	84.25	78.65	5.60	
28	84.30	79.15	5.20	
29	84.95	79.65	5.30	
30	85.11	80.15	5.00	
31	85.23	80.65	4.60	
32	85.99	81.15	4.80	
33	86.13	81.65	4.50	
34	86.89	82.15	4.74	

Br. 8. Right.

		Av	Max Cut	Min Cut			
35	87.50	82.65	4.90				
36	88.07	83.15	4.90				
E.F.L. 36+82							
37	89.74	83.65	6.10				
℄ Hwy 37+13	89.97	83.71	6.30				
W.F.L. 37+45							
℄ 37+75							
38	89.68	84.15	5.50				
E.W.F.L. 38+79	90.34	84.54	4.80	5.2	6.1	4.5	

Br V. Right

0	79.86	74.60	5.30	=Sta 16 Br 8 Rt			
N. Hwy E. 0+21	80.58	75.02	5.60	5.4	5.6	5.3	

Br 9 Right.

		Av	Max Cut	Min Cut			
0	74.85	69.20	5.70	=Sta 150 Main			
1	75.21	69.55	5.70				
2	75.51	69.90	5.60				
℄ 3	76.09	70.25	5.80				
4	76.97	70.60	6.40				
5	78.28	70.95	8.30				
6	77.27	71.30	6.00				
7	77.41	71.65	5.80				
11.85 Rt 7+14							
8	77.55	72.00	5.50				
9	78.14	72.35	5.80				
10	78.06	72.70	5.40	6.0	8.3	5.4	
11	78.53	73.05	5.50				
12	78.90	73.40	5.50				
13	79.33	73.75	6.60				
14	79.77	74.10	5.70				
15	80.07	74.45	5.60				
16	80.14	74.80	5.30				
17	80.37	75.15	5.20				

Br. 9 Right

				Av	Max Cut	Min Cut
18	80.70	75.50	5.30			
19	81.07	75.85	5.20			
L 19+34						
20	81.43	76.20 +45	5.20	5.5	6.6	5.
21	82.09	76.65 +45	5.40			
22	84.63	77.10 +45	7.50			
23	83.17	77.55 +45	5.60			
24	83.38	78.00	5.40			
25	82.48	78.45	4.00			
26	84.02	78.90 +45	5.10			
27	84.42	79.35 +45	5.10			
28	85.36	79.80 +45	6.60			
29	86.62	80.25 +45	6.40			
30	86.29	80.70 +45	5.60			
31	86.67	81.15 +45	5.50			
32	87.03	81.60	5.40			
33	87.32	82.05 +45	5.30			
E.F.L. 33+31						
L. Hwy. 33+63	89.32					

Br. 9 Right

				Av	Max Cut	Min Cut
W.F.L. 33+97						
L 34	87.78	82.55	5.28			
34+35 S.F.L. 34+95						
35	87.64	82.95	4.70			
L Hwy 35+38	89.59					
N.F.L. 35+52	89.02	83.18	5.80	6.5	7.5	4.0

Levels - Proposed Outlets in Hwy Tile Change Br. 8-R + 9-R

Sta	B.S.	H.I.	- S	Elev
BM F	6.11	83.78		77.67
T.P. ①	5.70	85.96	3.52	80.26
T.P. ②	5.63	87.27	4.32	81.64
Tile Top			7.70	79.57
℄			8.70	78.57
Hwy D			7.26	80.01
Gr			5.40	81.87
T.P. ③	6.18	89.69	3.76	83.51
T.P. ④	7.79	94.66	2.82	86.87
Tile top			8.97	85.69
℄			9.57	85.09
Hwy D			7.57	87.09
Gr			5.80	88.86
Tile Top			8.77	85.89
℄			9.37	85.29
D			7.80	86.86
Gr			6.15	88.51

10/17/21

Spike in top E end N. wall Conc Culv. Xing Hawkeye Hwy + Main Dr #9

Hub by mail box S side Hwy

At proposed Junct Br 8 R + + N. Hwy Tile 10" Tile

3.30' outlet Depth

N. Hwy Tile - 50' W of ℄ Hwy ℄

Gibsons outlet - 6" Tile

3.77' Outlet Depth

S Hwy Tile 50' W of ℄ Hwy ℄

~~℄~~ outlet for prop W. of N + S Hwy

+ S. of Hawkeye Hwy. 6" Tile

3.22' Outlet Depth

B.M.s Main

B.M. #1	50.00	Top of W. end of S. end of Concrete bridge 88' E. of Center of N.W.¼ Sec 13 Barclay Twp. Black Hawk Co.
B.M. # 2	51.73	Spike in root of Cotton-wood tree near N.E. cor. NW¼ SW¼ Sec 13.
B.M # 3	57.60	Spikes in S. end of E. cap of bridge between Secs. 14 & 23 = Sta. 55
B.M # 4	—	— — Top of boulder 84' S. of Sta. 72.
B.M. # 5	65.30	Top of S. end of E cap. of bridge thru W½ Sec 23. = Sta 96+50
B.M # 6	66.45	Spikes in W. end of S. cap of bridge on W. line Sec 23 = Sta 104+50
B.M # 7	— —	— — — Bridge on Hawkeye Hwy — Destroyed.
B.M # 8	— —	— — — Top W. end culvert at end of Main — N. G.
B.M. A.	51.26	Spike in E end of N. cap of bridge on N&S. Hwy — N. of Sta 23+50
B.M. B.	57.90	Spike in root of W. of row willows on E E of Sta 37
B.M. C.	63.25	Top of black boulder at pasture Fence cor. S. of Sta 70 Approx.
B.M. D.	71.09	Spike in cor. post. 200' E of Main - on E & W ¼ E.
B.M. E.	70.37	Lath at N&S E Approx 50' N. of Sta 1. Br 8 Left.
B.M. F.	77.67	Spike in top of E. end of N. wall of Concrete bridge on Hawkeye Hwy.
B.M. G	79.57	Spike in cor. post at SW cor. N.W. ¼ N.E. ¼ Sec. 27. (Not accurate)
B.M. H.	92.34	N.E. cor. of E. end of Concrete culvert at end of Main.

B.M.s Brs 1.R.-2.R.-3.R & 4.R

B

B.M.# 1 - Br 2.R. 73.83 Spike in S of row Cotton woods N. of Hwy. approx Sta 19 Br. B.R.

B.M.# 1 Br 3.R 73.09 Highest point on large rock in field approx 100' N.E. of Br. 3.R. Sta 20

B.M.s Brs. 5 R. & 6 R.

B.M. # 1	Br. 5 R.	63.13	Extreme N.E. cor. of plank of floor of bridge 1880' E. of N.W. Cor Sec 23, Br 5 R.
B.M. # 2	Br 5 R.	67.69	Spike in root of lone willow at Center N.W. 1/4 Sec 14. = Sta 37+50 Br 5 R.
B.M. # 3	Br 5 R.	73.69	Spike in N. end of E. cap of bridge N.E. Cor SW 1/4 NW 1/4 Sec 14 = Sta 50 +
B.M. # 4	Br. 5 R.	88.48	N.E. Cor. of E wall of Conc. Culvert bet. secs 10 & 11. Sta. 85 Br 5 R.
B.M. # 5	Br 5 R.	81.61	N.E. Cor. of N. wall of Conc. culvert N of Sec 15 = Sta 10 Br 6 R.
B.M. # 6	Br 5 R.	81.46	N.E. Cor. of N. wall of Conc. Culvert. N. of sec 15 = Sta 34 Br. 6 R.
B.M. # 7	Br 5 R.	84.04	Spike in E. of 2 cotton woods N. of Hwy - Sta 16 Br 6 R.

B.M. # 1	Br. 6 R.	70.13	Spike in N. end of E. cap of bridge N. of Sec 22 = Sta 14+50 Br. 6 R.
B.M. # 2	Br. 6 R.	79.41	NE. Cor. of E end of Conc Culvert. S. side of Hwy N of Sec 22 Between Brs 6 R & 6 R.
B.M. # 3	Br. 6 R.	86.10	Spike in root of W. of row willows running N.W. approx Sta 9 Br. 6 R.

B.M.'s Br's 7.R. - 8R. & 9R.

B.M.#1	Br 7R	76.52	Large boulder approx 200' N. of Sta 21 Br 7R @ 200' W of N&S. Tk.
B.M.#2	Br 7R	76.00	

Br. 3 Left. Continued from Pg 24.

Sta	Elev	Gr.	Cut.	
New 0 N.E 0+80	57.59	48.00	6.60	= Sta 57 Main
1	55.28	48.33	6.90	
1+10	56.48			
2	55.19	48.66	6.50	
3	55.38	48.99	6.40	
4	57.32	49.32	5.00	
5	55.41	49.65	5.80	

Br 5 R - Cont from Pg 60.

Sta	Elev.	Gr.	Cut.	
0	57.59	48.00	6.60	= Sta 54 Main
1	55.28	48.26	7.00	
2	55.07	48.52	6.60	
3	57.72	48.78	5.90	
4	57.62	49.04	5.60	
5	55.72	49.30	6.40	
6	57.07	49.56	7.50	
7	57.92	49.82	8.10	
8+50	58.48	50.21	8.30	
9+50	58.58	50.47	8.10	
10+50	58.68	50.73	7.90	
11+50	58.38	50.99	7.30	
12+50	59.08	51.25	7.90	
13+50	59.78	51.51	8.30	
14+50	59.83	51.77	8.10	
15+50	59.64	52.03	7.60	
16+50	59.13	52.29	6.80	
17+50	59.53	52.55	7.00	
18+50	59.78	52.81	7.00	

19+50	59.83	53.07	6.80	
20+50	60.03	53.33	6.70	
21+50	60.58	53.59	7.00	
S Hwy F				
22+36				
22+50				
℄ Hwy				
22+79	61.23	53.92	7.30	
N.F.L.				
23+22				
23+50	60.38	54.11	6.30	
24+50	60.43	54.37	6.10	
24+75	60.43	54.45	6.00	= Old Sta 9+51

124 - 141

Test Borings

Line	Sta	Cut.	
Main	37+35=0	6.00	1½' Black loam
			1½ Blue Clay
			3' Sand
			2½' Black loam.
"	5-7	7.70	1½' Sandy Blk loa
			3' Coarse Gravel Sand.
			2½' Blk loam
"	90	6.30	2½' Yellow Clay.
			1½ Sandy Clay.
			2½' Blk loam
"	117	6.20	4' Yellow Clay.
	149	6.20	3' Blk Soil
			3' Medium Sand
"	180	5.00	2' Blk Soil
			3' Yellow Clay

Silty Clay.
Comparatively Coarse. Mixed with

			2½'	Blk loam	
Br 6 R.	24	6.20	3½	Mixed Clay	Mostly yellow.
	9+80=				
Br 5. R	24+75	6.00	3'	Blk Soil	
			1½	Mixed Clay	
			1½	Med Sand	
			1½	Blk Soil	
Br 3-L	15	6.00	1½	yel Clay	
			1½	Sandy Clay	
			1½	Sand	

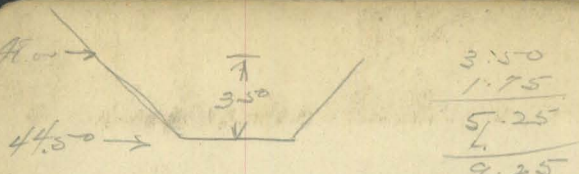

TABLE IX.—CALCULATION OF EARTHWORK.

Width	HEIGHT														
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	.02	.04	.06	.07	.09	.11	.13	.15	.17	.18	.20	.22	.24	.26	.28
2	.04	.07	.11	.15	.18	.22	.26	.30	.33	.37	.41	.44	.48	.52	.56
3	.06	.11	.17	.22	.28	.33	.39	.44	.50	.56	.61	.67	.72	.78	.83
4	.07	.15	.22	.30	.37	.44	.52	.59	.67	.74	.81	.89	.96	1.04	1.11
5	.09	.19	.28	.37	.46	.56	.65	.74	.83	.93	1.02	1.11	1.20	1.30	1.39
6	.11	.22	.33	.44	.56	.67	.78	.89	1.00	1.11	1.22	1.33	1.44	1.55	1.67
7	.13	.26	.39	.52	.65	.78	.91	1.04	1.16	1.30	1.42	1.55	1.68	1.81	1.94
8	.15	.30	.44	.59	.74	.89	1.04	1.19	1.33	1.48	1.63	1.78	1.92	2.08	2.22
9	.17	.33	.50	.67	.83	1.00	1.17	1.33	1.50	1.67	1.83	2.00	2.17	2.33	2.50
10	.18	.37	.56	.74	.93	1.11	1.30	1.48	1.67	1.85	2.04	2.22	2.41	2.59	2.78
11	.20	.41	.61	.82	1.02	1.22	1.43	1.63	1.83	2.04	2.24	2.44	2.65	2.85	3.06
12	.22	.44	.67	.89	1.11	1.33	1.56	1.78	2.00	2.22	2.44	2.67	2.89	3.11	3.33
13	.24	.48	.72	.96	1.20	1.44	1.68	1.92	2.16	2.41	2.65	2.89	3.13	3.37	3.61
14	.26	.52	.78	1.04	1.30	1.55	1.81	2.08	2.33	2.59	2.85	3.11	3.37	3.63	3.89
15	.28	.56	.83	1.11	1.39	1.67	1.94	2.22	2.50	2.78	3.06	3.33	3.61	3.89	4.17
16	.30	.59	.89	1.18	1.48	1.78	2.07	2.37	2.67	2.96	3.26	3.56	3.85	4.15	4.44
17	.31	.63	.94	1.26	1.57	1.89	2.20	2.52	2.83	3.15	3.46	3.78	4.09	4.41	4.72
18	.33	.67	1.00	1.33	1.67	2.00	2.33	2.67	3.00	3.33	3.67	4.00	4.33	4.67	5.00
19	.35	.70	1.06	1.41	1.76	2.11	2.46	2.82	3.17	3.52	3.87	4.22	4.57	4.92	5.28
20	.37	.74	1.11	1.48	1.85	2.22	2.59	2.96	3.33	3.70	4.07	4.44	4.81	5.18	5.56
21	.39	.78	1.17	1.55	1.94	2.33	2.72	3.11	3.50	3.89	4.28	4.67	5.06	5.44	5.33
22	.41	.81	1.22	1.63	2.04	2.44	2.85	3.26	3.67	4.07	4.48	4.89	5.30	5.70	6.11
23	.43	.85	1.28	1.70	2.13	2.56	2.98	3.41	3.83	4.26	4.68	5.11	5.54	5.96	6.39
24	.44	.89	1.33	1.78	2.22	2.67	3.11	3.56	4.00	4.44	4.89	5.33	5.78	6.22	6.67
25	.46	.92	1.39	1.85	2.31	2.78	3.24	3.70	4.17	4.63	5.09	5.56	6.02	6.48	6.94
26	.48	.96	1.44	1.92	2.41	2.89	3.37	3.85	4.33	4.82	5.30	5.78	6.26	6.74	7.24
27	.50	1.00	1.50	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50
28	.52	1.04	1.55	2.07	2.59	3.11	3.63	4.15	4.67	5.18	5.70	6.22	6.74	7.26	7.78
29	.54	1.07	1.61	2.15	2.68	3.22	3.76	4.30	4.83	5.37	5.91	6.44	6.98	7.52	8.06
30	.56	1.11	1.67	2.22	2.78	3.33	3.89	4.44	5.00	5.55	6.11	6.67	7.22	7.78	8.33
31	.57	1.15	1.72	2.30	2.87	3.44	4.02	4.59	5.17	5.74	6.32	6.89	7.46	8.04	8.61
32	.59	1.18	1.78	2.37	2.96	3.56	4.15	4.74	5.33	5.92	6.52	7.11	7.70	8.30	8.89
33	.61	1.22	1.83	2.44	3.05	3.67	4.28	4.89	5.50	6.11	6.72	7.33	7.94	8.55	9.17
34	.63	1.26	1.89	2.52	3.15	3.78	4.40	5.04	5.67	6.29	6.93	7.56	8.18	8.81	9.44
35	.65	1.30	1.94	2.59	3.24	3.89	4.53	5.18	5.83	6.48	7.13	7.78	8.42	9.08	9.72
36	.67	1.33	2.00	2.67	3.33	4.00	4.66	5.33	6.00	6.67	7.33	8.00	8.67	9.33	10.00
37	.68	1.37	2.06	2.74	3.42	4.11	4.79	5.48	6.17	6.85	7.54	8.22	8.91	9.59	10.28
38	.70	1.41	2.11	2.82	3.52	4.22	4.92	5.63	6.33	7.03	7.74	8.44	9.15	9.85	10.56
39	.72	1.44	2.17	2.89	3.61	4.33	5.05	5.78	6.50	7.22	7.95	8.67	9.39	10.11	10.83
40	.74	1.48	2.22	2.96	3.70	4.44	5.18	5.92	6.67	7.41	8.15	8.89	9.63	10.37	11.11

Table gives cu. yds. in 1 ft. of a triangle of given width and height. Corrections for tenths of width are one tenth the values found under each height considering the widths from 1 to 9 as tenths and similarly the corrections for tenths of height are one tenth the figures opposite width considering the heights from 1 to 9 as tenths. Thus if w =16.2 and h =5.3, cu. yds. =1.48+.028+.089 =1.597 cu. yds. or practically 160 cu. yds. per 100 ft. If w exceeds 40 ft., use one half and multiply result by 2, if both w and h are large use one half of each and multiply result by 4. Any cross-section may be divided into triangles by the following rule. To the triangle of the sum of the outside cuts (or fills) =h, and ½ the roadbed =w, add the triangles formed by taking the distance out to each break in turn (=w's) by the difference between the cuts (or fills) on each side of it (=h's) always subtracting the outer from the inner.

DISTANCES FROM CENTER OF ROADWAY FOR CROSS-SECTIONING.

Roadway 16 feet wide. Side Slopes 1 on 1½.

For Single Track Embankment.

H	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	H
0	8.0	8.2	8.3	8.5	8.6	8.8	8.9	9.1	9.2	9.4	0
1	9.5	9.7	9.8	10.0	10.1	10.3	10.4	10.6	10.7	10.9	1
2	11.0	11.2	11.3	11.5	11.6	11.8	11.9	12.1	12.2	12.4	2
3	12.5	12.7	12.8	13.0	13.1	13.3	13.4	13.6	13.7	13.9	3
4	14.0	14.2	14.3	14.5	14.6	14.8	14.9	15.1	15.2	15.4	4
5	15.5	15.7	15.8	16.0	16.1	16.3	16.4	16.6	16.7	16.9	5
6	17.0	17.2	17.3	17.5	17.6	17.8	17.9	18.1	18.2	18.4	6
7	18.5	18.7	18.8	19.0	19.1	19.3	19.4	19.6	19.7	19.9	7
8	20.0	20.2	20.3	20.5	20.6	20.8	20.9	21.1	21.2	21.4	8
9	21.5	21.7	21.8	22.0	22.1	22.3	22.4	22.6	22.7	22.9	9
10	23.0	23.2	23.3	23.5	23.6	23.8	23.9	24.1	24.2	24.4	10
11	24.5	24.7	24.8	25.0	25.1	25.3	25.4	25.6	25.7	25.9	11
12	26.0	25.2	26.3	26.5	26.6	26.8	26.9	27.1	27.2	27.4	12
13	27.5	27.7	27.8	28.0	28.1	28.3	28.4	28.6	28.7	28.9	13
14	29.0	29.2	29.3	29.5	29.6	29.8	29.9	30.1	30.2	30.4	14
15	30.5	30.7	30.8	31.0	31.1	31.3	31.4	31.6	31.7	31.9	15
16	32.0	32.2	32.3	32.5	32.6	32.8	32.9	33.1	33.2	33.4	16
17	33.5	33.7	33.8	34.0	34.1	34.3	34.4	34.6	34.7	34.9	17
18	35.0	35.2	35.3	35.5	35.6	35.8	35.9	36.1	36.2	36.4	18
19	36.5	36.7	36.8	37.0	37.1	37.3	37.4	37.6	37.7	37.9	19
20	38.0	38.2	38.3	38.5	38.6	38.8	38.9	39.1	39.2	39.4	20
21	39.5	39.7	39.8	40.0	40.1	40.3	40.4	40.6	40.7	40.9	21
22	41.0	41.2	41.3	41.5	41.6	41.8	41.9	42.1	42.2	42.4	22
23	42.5	42.7	42.8	43.0	43.1	43.3	43.4	43.6	43.7	43.9	23
24	44.0	44.2	44.3	44.5	44.6	44.8	44.9	45.1	45.2	45.4	24
25	45.5	45.7	45.8	46.0	46.1	46.3	46.4	46.6	46.7	46.9	25
26	47.0	47.2	47.3	47.5	47.6	47.8	47.9	48.1	48.2	48.4	26
27	48.5	48.7	48.8	49.0	49.1	49.3	49.4	49.6	49.7	49.9	27
28	50.0	50.2	50.3	50.5	50.6	50.8	50.9	51.1	51.2	51.4	28
29	51.5	51.7	51.8	52.0	52.1	52.3	52.4	52.6	52.7	52.9	29
30	53.0	53.2	53.3	53.5	53.6	53.8	53.9	54.1	54.2	54.4	30
31	54.5	54.7	54.8	55.0	55.1	55.3	55.4	55.6	55.7	55.9	31
32	56.0	56.2	56.3	56.5	56.6	56.8	56.9	57.1	57.2	57.4	32
33	57.5	57.7	57.8	58.0	58.1	58.3	58.4	58.6	58.7	58.9	33
34	59.0	59.2	59.3	59.5	59.6	59.8	59.9	60.1	60.2	60.4	34
35	60.5	60.7	60.8	61.0	61.1	61.3	61.4	61.6	61.7	61.9	35
36	62.0	62.2	62.3	62.5	62.6	62.8	62.9	63.1	63.2	63.4	36
37	63.5	63.7	63.8	64.0	64.1	64.3	64.4	64.6	64.7	64.9	37
38	65.0	65.2	65.3	65.5	65.6	65.8	65.9	66.1	66.2	66.4	38
39	66.5	66.7	66.8	67.0	67.1	67.3	67.4	67.6	67.7	67.9	39
40	68.0	68.2	68.3	68.5	68.6	68.8	68.9	69.1	69.2	69.4	40

Example—If point is 22.6 ft. above grade, how far should it be from center line to be a slope stake point? Ans. from Table 41.9. For same slopes but other widths of roadbed correct above figures by one-half difference in width of roadbed; thus in example above for 20 ft. roadbed distance will be 41.9+(20—16)÷2 or 2 ft. added to 41.9 =43.9. For slopes of 1 on 1 see inside of front cover.