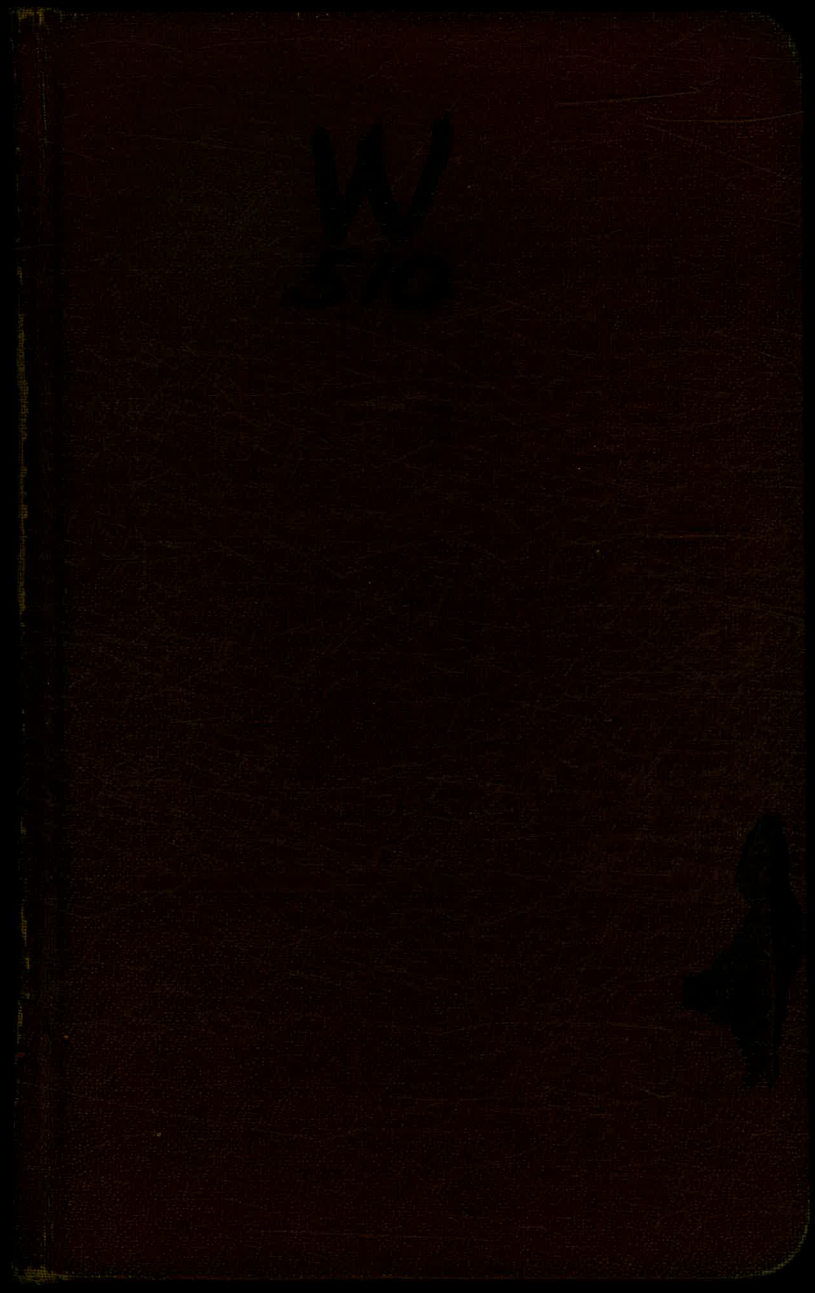

DISTANCES FROM CENTER OF ROADWAY FOR CROSS-SECTIONING.

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.

Made in U. S. A.

510

5

Slope Stakes

El Monte Park – El Capitan road. County Survey #606

X secs. & slope stakes Co. road from Head prop. to dam.

Sta.	℄ El.	Grade	+5.4	G. Rod.
303+25	12.8	15.07	18.2	-3.1
+75	11.7	14.37	17.1	-2.8
302+25	12.6	14.01	18.0	-4.0
+75	11.1	13.76	16.6	-2.8
+50	10.1	13.68	14.9	-1.2
301	509.8	13.52	15.2	+1.7

stake

℄ Louden 8/21/52
Soper
Remmen Stake

10.5
F 7.4
28.1

-3.0 / 16 -2.3 / 0 -1.3 / 13

3.1
Gr.
17.0

9.6
F 6.8
27.2

-6.9 / 20 -3.0 / 4 -2.7 / 0

2.5
Co. 3
18.1

11.2
F 7.2
27.8

-7.0 / 22 -1.4 / 0

5.5
F 1.5
19.2

18.1
F 5.3
24.9

-5.0 / 15 -2.7 / 0

4.7
F 1.9
19.8

7.0
F 5.8
25.7

-3.6 / 0

F 3.4
22
20.3

8.1
F 6.1
26.6

-5.2 / 23 -3.7 / 0

3.7
F 2.0
20

	℄ El.	Grade		Grad
			+7.3	
306	16.5	19.15	23.8	-4.7
			5.4	
+50	16.1	18.79	21.5	-3.2
			5.4	
305	14.9	17.57	20.3	-2.7
			5.4	
+50	15.5	16.85	20.9	-4.1
			+5.4	
+25	14.5	16.4	19.9	+3.5
			+5.4	
304	11.2	16.14	16.6	-0.5
			+5.4	
+80	13.4	15.8	18.8	-3.0
			+5.4	
303+50	12.5	15.43	17.9	-2.4

Stake ℄ Stake

13.0 F 8.3 29.4 | -6.2 23 | -5.3 15 | -2.6 | -1.9 6 | +2.8 17 | 2.0 C 2.7 19.3

9.1 F 5.9 25.8 | -5.4 15 | -2.2 0 | +0.4 9 | 1.6 C 1.6 18.8

7.7 F 5.0 24.5 | -2.7 0 | +1.5 8 | +0.8 C 3.5 19.7

9.1 F 5.0 24.5 | -3.1 3 | -1.3 0 | 1.8 C 2.3 19.1

-7.1 30 | -4.6 17 | -3.1 5 | +1.9 0 | +0.5 25 | +1.5 30

4.3 F 3.8 22.7 | -5.8 11 | -4.9 0 | 2.4 F 1.9 19.8

-8.1 33 | -4.2 25 | -2.4 0 | +1.2 5 | +2.5 25

10.1 F 7.7 28.6 | -3.6 17 | -2.9 0 | +0.2 12 | 1.7 C 0.7 18.3

	℄ El.	Grade		G. rod.	Super		Stake	℄	Stake
+29 30	24.5	25.00	+5.4 29.9	4.9	4.4 +0.5	30.5 - 0.5	5 F 0.8 18.2	-0.6 3	.80 F 22.5 29.2
308	23.7	24.23	+8.0 33.8 29.1	57.5 5.5	5.1 33.3 +0.4	33.7 - 0.4	5.5 F 0.4 17.6	-0.5 0.0 +15.5 0 4 15.0	54 C 28.3 32.1
+50	22.5	22.92	+5.4 +13.2 27.9	35.7 -5.0	4.9 -12.8 +0.1	-12.8 - 0.1	4.9 Gr. 18.0	-0.4 0	+2.5 C 15.4 25.7
307	21.8	21.62	+8.3 +2.0 30.1	-2.2 L -8.5 R			22 Grade 17.0	+0.6 +0.2 +0.2 16 0 10	1.1 C 7.4 21.7
3:7		1.52							
306+50	21.8	20.31	+5.4 27.2	-6.9			16.3 F 9.4 31.1	-1.6 +0.7 +1.5 21 6 0	6.1 C 0.8 18.4

Note- On superelevated sections intermediate elevs. are referred to center-line grade.

	℄ El.	Grade			G. rod		Super		Stake			℄			Stake
		2.6	+5.4			+37.0	7.3	40.3	5.2			+2.6	+2.6	+25.4	5.5
+50	33.4	30.77	38.8		8.0	39.6	+0.7	-0.7	C 2.1			0	4	19.0	C 33.8
									19.0						34.9
		1.7	+5.4	+29.6			6.4	32.0	5.6			+0.9	+1.7	+1.5	+8.0	+20.5	2.0
310	31.2	29.46	36.6	60.8	7.1	31.3	+0.7	-0.7	C 0.8			16	0	4	13	16	C 30.0
									18.4								33.0
			+5.4	+32.5			5.2	33.7	5.5			+0.5	+0.5	+0.7	+4.7	+18.1	5.7
+50	28.6	28.15	34.0	61.1	5.9	33.0	+0.7	-0.7	F 0.3			14	0	4	12	16	C 28.0
									17.4								32.0
			+5.4	+28.0			4.7	28.7	22.5					7			9.4
309	26.8	26.85	32.2	54.8	5.4	28.0	+0.7	-0.7	F 17.8	-14.6	-1.3	-0.3	0	0		+7.1	C 19.3
									43.7	25	18	16	0	7		12	27.6
			5.4	+28.0			4.6	-28.4	9.6								8.3
308+50	25.3	25.54	30.7	53.3	5.2	27.8	+0.6	-0.6	F 2.0	-0.4		-0.4	-0.2			+10.5	C 20.1
									20.0	18		5	0			13	28.1

	℄ El	Grade		Grad	Super		Stake
+50	40.3 (6.5)	33.76	+5.4 45.7	+42.8 83.1 12.0	49.3 14.0 −2.0	47.3 +2.0	6.2 C-7.8 21.9
+13.41 B.C.	40.9	33.5	5.4 46.3	12.8	49.3 14.4 −1.6	47.7 +1.6	6.4 C-8.0 22
312	40.9	33.43			−1.47	+1.4	
311+50	39.9	3283	−5.4 45.3	+45.2 85.1 12.5	52.3 12.8 −.33	52.0 +0.33	5.1 C-7.7 21.8
+91.10 E.C.	35.9 ~~36.3~~	31.73	+5.4 41.3	9.6	9.1 +0.5	50.3 −0.5	5.3 C-3.8 19.9

	℄	Stake
	+6.6 +6.6 +7.8 +34.1 0 6 13 23	4.9 C-42.4 39.2
	+7.9 +7.4 +14.5 +34.9 0 −4 13 21	4.8 C-42.9 39.5
	+7.1 +11.6 +33.6 0 7 12	2.6 C-49.4 42.7
	+3.9 +4.2 +8.0 +28.4 1 6 7 12	6.3 C-44.0 40.0

+86 2.2 BC	30.4	31.7	+11.9 72.3	6.7 40.6	6.5 +0.2	40.8 -0.2
+50	32.4	32.29			-0.4	+0.4
+40 3.9 E.C.	32.4	32.5		5.5 45.1	6.1 -0.6	45.1 +0.6
314	34.4	33.07	.116 46.0	12.9	14.4 -1.5	10.1 +1.5
314+30	33.0	32.6				
+50	36.9	33.59	+5.0 42.3 +5.3 82.1	8.7 48.5	10.7 -2.0	46.5 +2.0
313	38.8	33.82	+5.4 44.2	10.4	12.4 -2.0	8.4 +2.0

C 0.9 / 5.4 / 18.5 / C-1.1 / 18.6

℄

-1.3 / 0 | +1.5 / 4 | +6.7 / 13

C 27.8 / 31.9 / 12.8 / C-28.6 / 32.0

Note: Use ℄ grade on inside of curve.

5.7 / C 0.4 / 18.2

r -0.1 / 0 | 0.0 / 2 | +4.5 / 9 | +9.5 / 15

11.3 / C-33.8 / 34.9

11.8 / C-2.6 / 19.3

+1.6 / 18 | +1.3 / 0 | +2.2 / 17

8.5 / C-1.6 / 18.8

+0.6 / 21 | -0.2 / 17 | +0.4 / 0 | +6.4 / 15 | +130 / 26 | +31 / 34

C 2 / C-4.5 / 20.2

+3.3 / 0 | +3.7 / 7.0 | +8.1 / 20 | +37.3 / 29

7.8 / C-38.7 / 37.3

6.2 / C-6.2 / 21.1

+5.0 / 0

5.3 / C 3.1 / 19.5

8

+50 ? Balance Pt. OK							
+50	26.9	28.58	5.4 / 32.3	+50.8 / 77.7	3.7	49.1	3.1 +0.6	49.7 -0.6
316	31.0	29.51	1.4 / 32.4	+49.0 / 80.0	2.9	50.5	2.2 +0.7	51.2 -0.7
+50	30.9	30.44	5.4 / 36.3	+48.1 / 79.0	5.9	48.6	5.2 +0.7	49.2 -0.7
+30	32.0	30.8					
315	30.4	31.36					+0.4	-0.4

℄

Stake							Stake
F 3.5 / 22.3, F 2.9 / 21.4		$\frac{-0.5}{3}$	$\frac{-1.7}{0}$	$\frac{+7.5}{13}$			C 45.7 / 40.9, 3.4 C- 46.3 / 41.1
F 3.8 / 22.7, 5.3 F 3.1 / 21.6		$\frac{-2.4}{6}$	$\frac{+1.5}{0}$		$\frac{+40.0}{30}$		C 47.1 / 41.6, 2.8 C- 48.4 / 42.2
F 3.1 / 21.7, 4.6 F 3.4 / 20.6		$\frac{-1.8}{5}$	$\frac{+0.5}{0}$		$\frac{+32.4}{21}$		C 44.3 / 40.2, 4.6 C- 45.1 / 40.5
	$\frac{-2.0}{26}$	$\frac{-2.0}{4}$	$\frac{+1.2}{0}$	$\frac{+13.7}{16}$	$\frac{+26.7}{21}$	$\frac{+39}{40}$	
$\frac{-1.5}{25}$	$\frac{-1.5}{20}$	$\frac{-1.5}{2}$	$\frac{-1.0}{0}$	$\frac{+7.0}{19}$	$\frac{+25}{34}$		

(Use ℄ grade on inside of curve)

	℄ El.	Grade						
			54	467				
318	25.4	26.40	31.8	72.1	4.4	45.7		
			54	+48.5			4.4	-47.7
+50	26.0	26.87	31.4	74.5	4.5	47.6	+0.1	-0.1
			54	+53.6			3.7	52.5
317	26.2	27.45	31.6	79.8	4.6	52.2	+0.3	-0.3
			54				2.8	42.6
+71[88] E.C.	26.1	28.2	31.5		3.3	42.1	+0.5	-0.5

Station
54
F-1.0
18.5

F 1.1
18.7
54
F 1.0
18.5

F 2.2
20.3
54
F-1.9
18.8

F 3.1
21.7
54
F-1.6
20.9

℄			Station
			10.2
-1.0	+0.8	+35.0	C-35.5
0	1.3	33	35.7
			C 41.9
			39.0
-0.9	+1.5	+40.1	54
0	12	36	C-40.0
			89
			C 51.4
			43.7
-1.4			4.8
0			C-51.7
			43.8
			C 46.8
			41.4
-2.1	+7.4	+31.5	+4.7
0	11	25	C-47.3
			41.6

(Use ℄ grade on inside of curve)

	℄ El	Grade			G.rod	Subgrade
			1.4	32.6		
+50	29.7	26.64	31.1	62.3	4.5	35.7
			5.4	39.9		
319	25.7	26.36	31.1	65.6	4.7	39.2
			5.4	36.4		
318+50	24.7	26.23	30.1	61.1	3.7	35.9

℄

Stake				Stake
7.4 F-2.9 21.4	-3.2 7	+3.1 0	+15.8 8	4.2 C-31.5 33.7
6.8 F-2.1 20.1	-2.5 3	-0.7 0	+8.0 16	+21.8 23 / 11.3 C-27.9 31.9
5.3 F-1.4 19.1		-1.5 0.	+0.7 9	26.2 24 / 4.3 C-31.6 33.8

	℄ El	Grade		Grod		Super		Stake
L			5.4	26.3			1.3	21.2
+27 41 BC	23.1	27.7	28.5	49.4	0.8	21.7	-0.5	+0.5
321	22.9	27.48	5.4	26.4			1.1	21.5
			28.3	49.3	0.8	21.8	-0.3	+0.3
+50	26.4	27.20	2.2	27.5			1.5	24.6
			28.6	53.9	1.4	26.7	-0.1	+0.1
320	27.2	26.92	1.4	41.5				
			28.4	68.7	1.5	41.8		

Stake						
6.3						
F 5.0	-4.6	-4.6	+4.8		13.0	
24.5	0	4	10		C -8.2	
					22.1	
5.5						
F 4.4	-4.6	-4.5	-0.1	+11.5	6.0	
23.6	0	3	12	12	C -15.5	
					25.7	
5.3						
F 3.9	-3.9	-0.8		+15.6	8.8	
22.9	7	0		22	C -17.8	
					26.9	
5.1						
F 3.6	-3.9	+0.3		+19.4	1.6	
22.4	7	0		14	C -40.2	
					38.1	

&

+50	24.2	28.32	5d 29.6	1.3	2.0 -0.7	0.6 +0.7	6d F 4.4 23.6		-4.1 0			1.6 F 1.0 18.5	
322	23.6	28.04	5d 29.0	1.0	1.7 -0.7	0.3 +0.7	11.0 F 9.3 31.0	-6.0 21	-4.4 0	-4.0 9	-2.1 12	2d F 2.1 20.1	
+70	23.5	27.9	7.5 31.0	3.1	3.7 -0.6	2.5 +0.6	14.8 F -13.1 36.6	-12.1 28	-5.5 20	-4.4 0	-4.6 8	4d F 1.9 19.8	
321+50	23.3	27.76			-0.6	+0.6							

E

324	31.1	29.16	36.5 +5.4		7.3	8.0 −0.7	66 +0.7	G.C 1.4 / 18.7		+1.9 / 0			3.5 C 3.1 / 19.6
+50	28.5	28.88	5.0 7.5 / 33.5 36.0	4.5	7.1	5.3 −0.7	6.4 +0.7	5.7 F 0.4 / 17.6	−2.9 / 22	−1.0 / 18	−0.4 / 0		2.0 C 4.4 / 20.2
323	27.6	28.60	8.0 / 35.6		7.0	7.6 −0.6	6.3 +0.7	11.0 F 3.4 / 22.1	−4.1 / 12	−3.0 / 2	−1.0 / 0		2.8 C 3.5 / 19.8

+53	10 EC.	32.9	30.0	54 38.3	8.3	8.8 -0.5	7.8 +0.5	7.6 C-1.2 18.6	+1.3 7	+2.9 0	08 C-7.0 21.5
+50		33.1	30.00			-0.5	+0.5				
325		34.5	29.72	5.4 39.9	10.2	10.9 -0.7	9.5 +0.7	9.9 C1.0 18.5		+5.2 0	2.6 C-6.9 21.5
+50		31.0	29.44	5.4 7.6 36.4 38.6	7.0	9.2 7.7 -0.7	8.5 +0.7	6.7 C1.0 18.5		+0.6 +3.2 0 1.5	3.7 C-4.8 20.4

327	29.0	30.38	+5.4 34.4	4.0			6.1 F-2.1 20.1	-1.8 11	-1.4 0	-1.5 11	0.0 12	3.5 C-0.5 18.2	
+50	30.2	30.25	5.4 35.6	5.4			5.4 Gr. 18.	-0.6 13	0.0 0	+0.2 9	+2.4 14	2.7 C-2.7 19.4	
326	30.8	30.13	5.4 36.2	6.1	6.4 -0.3	5.8 +0.3	6.4 Gr. 18.0	+0.7 0	+0.1 5	+1.7 7		4.2 C-1.6 18.8	

L							
+60 84 BC	27.0	30.8	+5.4	1.6	-0.9	+0.9	
+50	26.9	30.75			-0.8	+0.8	
328	26.5	30.63	31.9	1.3	-0.4	+0.4	
+50	27.5	30.50	32.9	2.4			

F 4.6
23.9

F 3.7
23.5

-4.0
15

-3.8
0

F 5.4
25.1

F 4.6
23.9

F 4.1
23.1

-4.1
0

-4.3
13

-3.8
14

F 4.5
23.8

F 4.1
23.1

Note: Use ℄ grade on inside of curve

F 3.8
22.7

-3.2
11

-3.0
0

-3.0
12

-2.6
13

F -2.0
20

+50 Balance Pt.

330	32.1	31.66	+3.8 ~~+3.8~~ 37.5	8.3 ~~8.7~~	9.6 -1.4	6.9 +1.4
+50	29.7	31.38	5.4	3.7	5.0 -1.4	2.3 +1.4
+20 Balance Pt.						
329	28.0	30.97	+5.4	2.5	3.7 -1.3	1.1 +1.3

F 0.4 / 17.6
8.7
F-1.1 (?)
18.6

+2.5 / 0 +0.5 / 12 +4.6 / 15

C 3.4 / 19.7
C-4.9
C-5.0
20.5

F 2.5 / 20.8
C
F 1.7
18.8

-1.8 / 14 -1.7 / 0 -1.8 / 9

F 1.2 / 18.8
2.3
C 0.
18

F 3.7 / 22.6
2
F-3.5 (?)
20.7

-3.0 / 15 -2.9 / 0 -2.5 / 12

F 5.5 / 25.3
C
F-1.5
23.8

(Use E grade on inside of curve)

							C 3.8 / 19.9				C 5.8 / 20.9
+50	40.2	34.56	54 45.6	11.0	11.4 -0.4	10.6 +0.4	C-4.2 / 20.5		+5.6 / 0	+6.6 / 17	4.4 C-6.2 / 21.1
+0.1.78 331	37.6	33.67			-0.8	+0.8					
							C 2.4 / 19.2				C 2.8 / 19.4
+87.15 E.C.	36.9	33.5	54	8.8	9.7 -0.9	7.9 +0.9	C-3.3 / 19.7		+3.4 / 0		4.2 C-3.7 / 19.8
							C 1.1 / 18.6				C 0.2 / 18.1
E.V.C. +50	34.7	32.78	5.4	7.3	8.6 -1.3	6.0 +1.3	C-2.4 / 19.2	+2.6 / 2	+1.9 / 0	+2.3 / 2	4.5 C-1.5 / 18.7

(Use ℄ grade on inside of curve)

4

333	40.2	37.24	5.4	8.4	6.7 C-1.7 18.8	+3.9 0		3.8 C-4.2 20.1
+50	42.2	36.34	5.2	11.3	7.3 C-4.0 20.0	+5.9 0		3.8 C-8.0 22
332	41.6	35.45	5.4	11.6	7.1 C-4.5 20.2	+6.7 0 +6.2 0	+7.6 19	3.0 C-8.6 22.3

+66	43.0	39.6		2.0
+50	40.7 ~~38.9~~	39.50	5.4	6.6
+30	36.6	39.3		9.9 2.7
334	38.8	38.92	5.4	5.3
+80	35.1	38.6	5.4	1.9
B.V.C. +50	36.3	38.13	5.4	3.4

&

-14.0 35	-11.0 26	-6.0 12	+3.4 0	+3.6 24	
14.0 F-7.4 28.1		+1.2 0	+ 4.1 7		1.8 C-4.8 20.4
-8.0 30	-	-2.7 0	-1.3 7	+ 4.7 14	+ 4.9 25
11.3 F6.0 26.0	-5.6 -20	-0.1 0	+19 15		1.4 C-3.9 19.9
-5.1 25		-3.5 0	-16 19		0.0 2.3
5.7 F-2.3 20.4		-2.0 0	-1.2 18		4.3 F0.9 18.3

+30	39.2	39.9		7.5 / ~~8.9~~	
336	42.9	40.02	11.1 +2.9 / ~~5.4~~	5.4	14.0
+50	44.4	40.05	2.8 11.8	7.2	16.2
335	43.0	39.88	11.6	14.7 / ~~8.5~~	

K

-19 / 20	-15 / 3	-0.7 / 0	+3.7 / 8	+4.7 / 25
59 F 0.5 / 17.7		-0.2 / 3	+2.9 / 0	+9.0 / 5
54 C -1.8 / 18.9		+1.9 / 5	+4.4 / 0	+11.2 / 3
11.3 C -3.4 / 19.7		+~~9.4~~ / ~~15~~	+3.1 / 0	+2.9 / 6

34 C -10.6 / 23.3
41 C -12.1 / 24.0
37 C -11.0 / 23.5

℄

+70	34.9	38.9		17.9 1.4			
+50	34.6	39.09	+54 +20	0.9 15.5 ~~24.5~~	+1.0 +2.0	17.5 ~~20.5~~ -2.0	
R +14 ~~14~~ B.S.	35.1 ~~35.2~~	39.3	+5.4	1.2	0.3 ~~+1.0~~ +1.4	2.1 ~~-1.0~~ -1.4	
337	35.3	39.43	+54	1.3	0.2 +1.2	2.4 -1.2	
EVC. +50	37.5	39.77	+5.4	3.1	2.5 +0.6	3.7 -0.6	

-.00086

	+15.4 / 35	+7.8 / 4	-4.8 / 0	-4.6 / 1	-4.0 / 23	-6.3 / 27	-7.6 / 35
F 10.5 / 32.8 ~~7.5 F 8.5 / 29.7~~		-4.1 / 22	-4.5 / 0	-4.5 / 2	+5.2 / 7		C 9.2 / 22.6 ~~5.9 4.6 C- 11.6 / 23.8~~
F 9.0 / 30.5 ~~7.3 F 7.0 / 27.5~~		-4.7 / 22	-4.2 / 0				F 3.1 / 21.7 ~~4.3 F 2.2 / 20.3~~
F 8.7 / 30.1 ~~7.3 F- 7.1 / 27.6~~	-4.0 / 22		-4.1 / 0				F 3.1 / 21.7 ~~4.5 F- 7.1 / 20~~
F 3.9 / 22.9 ~~5.5 F- 3.3 / 21.9~~		-2.7 / 2	-2.3 / 0	-3.1 / 10			F. 2.6 / 20.9 ~~5.7 F. 2.9 / 20.1~~

Note: Use ℄ grade on inside of curve

℄

339	32.8	38.06	5.4	23.8 (~~13.2~~)	.01	18.5	+2.2 (+2.2)	−2.2 (20.7)	F 15.6/40.4; F ~~13.6~~ (10.8) / ~~36.5~~	−9.5/28	−4.8/19	−5.3/0	−5.1/5	+3.7/7	+11.5/19
															C 12.3/24.2; C ~~14.7~~ (6.2) / ~~25.3~~
+50	32.9	38.40	23.4	5.4	17.9	+0.1	+2.2 (+2.2)	−2.2 (20.1)	F 12.6/35.9; F ~~10.4~~ (8.2) / ~~32.6~~	−8.1/28	−4.4/21	−5.5/0	−5.0/3	−1.1/6	+8.4/8
														+13.3/19	C 14.1/25.1; C ~~16.6~~ (3.5) / ~~26.3~~
338	40.3	38.74	3.4	13.2	5.0	14.8	+2.2 (2.9)	−2.7 (17.0)	F 12.1/35.2; F ~~9.3~~ (12.2) / ~~30.9~~	−4.1/24	−5.2/2	+1.6/0	+9.4/6	+12.2/13	C 14.6/25.3; C ~~17.0~~ / ~~26.5~~

1.00686

(Use ℄ grade on inside of curve)

+80	31.5	36.8			0.1			-15.2	-14.9	-10.6	-5.1	-5.3	-5.5	-3.9	
								50	42	29	13	0	11	36	
+50	31.9	37.03	0.6 5.4	9.7	+4.5 0.3	4.6	+6.6 +.8 +2.2	6.8 -2.2	F 19.7 46.6 19.0 F 16.6 41.9	-12.9 28	-8.7 26	-5.2 14	-5.1 0	-1.2 15	-5.3 11	F 0.8 18.2 C 1.7 18.8
340	32.5	37.37	2.0 5.4	13.2	+2.9 0.5	8.3	+5.0 +1.6 +2.2	10.5 -2.2	F 16.7 42.1 F 14.0 30.0 C 5.1 20.5		-11.6 28	-5.1 17	-4.9 0	-5.0 9	0.0 11	C 2.8 19.4 C 5.1 20.5
+50	32.6	37.71	5.4	2.0	0.3	14.9	+1.8 +2.2	17.1 -2.2	F 15.9 40.9 F 18.9 37.7		-11.0 27	-5.0 18	-5.1 0	-5.0 7	+2.9 8	4.2 17	C 8.9 22.5 C 11.3 23.6

(Use 8 grade on inside of curve)

℄

+30	31.3	36.1	5.4	0.6				−8.0/31 −5.1/25 −4.8/0 −3.0/14 −1.8/25
342	30.9	36.13	6.0	0.8	0.5 / +0.3	1.1 / −0.3	F 7.8/28.7 (8.0 F 7.5/28.2 crossed out)	−5.8/24 −5.2/0 −4.9/9 −3.6/20 F 2.6/20.9 (3.6 F 2.5/20.7 crossed out)
B.V.C. +50	31.0	36.34	5.4	0.1	+0.8 / +1.0	−1.0 / −1.0	F 12.2/35.3 (10.1 F 10.9/33.4 crossed out)	−9.9/28 −4.1/19 −5.0/16 −5.3/0 −5.3/8 −3.3/10 F 2.4/20.6 (2.5 F 1.5/19.2 crossed out)
+25	Balance Pt.							
E.C. +22[12]	31.1	36.5	5.4	0.0	+1.4 / +1.5	1.4 / −1.5	F 14.2/38.3 (10.0 F 11.8/34.7 crossed out)	−9.5/28 −5.1/18 −5.4/0 −5.6/10 −2.8/14 F 3.6/22.4 (3.5 F 2.1/20.1 crossed out)
341	31.3	36.69		0.0	+1.7 / +1.8	1.8 / −1.8	F 17.0/42.5 (12.8 F 14.5/38.7 crossed out)	−10.9/30 −5.5/17 −5.4/0 −5.7/11 F 2.5/20.8 (2.9 F 1.1/18.6 crossed out)

1.00686

(Use ℄ grade on inside of curve)

+50	42.3	36.51	2.3	8.0	8.1	13.8	5.2 C-2.7 19.3	+5.8 0			3.3 C-10.5 23.2
343	39.1	36.34	3.3	9.4	6.1	12.2	10.7 F4.6 23.9	-4.9 16	+0.2 12	+2.8 0	4.0 C-8.2 22.1
EY.C. +50	34.6	36.17	2.1	9.2	0.6	7.7	5.2 F4.8 24.2	-4.7 4	-4.7 0	-1.5 11	+1.4 4.9 C-2.8 19.4

+25	48.2	37.1	7.3	18.4		
345	50.7	37.03	4.7	8.5	13.4 18.4	22.2
+50	48.6	36.86	4.0	9.0	15.7	20.7
+15.	Balance Pt.					
344	46.0	36.69	3.9	8.4	13.2	17.7

x.00343

-5.6 / 40	-5.6 / 25	+6.6 / 15	+11.1 / 0	= 15.4 / 30
69 C-6.5 / 21.2		+9.4 / 20	+13.1 / 0	3.2 C-19.0 / 27.5
7.4 C-8.3 / 22.2		+9.9 / 16	+11.7 / 0	4.5 C-16.2 / 26.1
7.2 C-6.0 / 21.0			+9.3 / 0	4.7 C-13.0 / 24.5

℄

									-5.1 / 35	-4.9 / 27	-0.3 / 21	+2.4 / 10	+1.9 / 0	+6.3 / 30
+60	39.4	37.5	5.4		7.3									
+50	38.7	37.54				-1.0	+1.0							
L						6.0	13.7	F 4.0 / 23.0					C 11.3 / 23.7	
+41.65 BC	39.0	37.4	3.5	13.0	5.1	14.6 - 0.9	+0.9	8.8 F 3.8 / 21.2			-2.6 / 20	+1.6 / 0	+9.2 / 13	C - 12.2 / 24.1
1.00343						8.4	18.7	F 6.2 / 27.3					C 13.9 / 25.0	
346	43.7	37.37	1.5	13.0	7.8	19.3 - 0.6	+0.6	19.0 F 5.6 / 25.4			-5.8 / 22	+2.9 / 18	+6.3 / 0	+13.8 / 18	C - 4.2 / 25.7

↑ Note: Use ℄ Grade on inside of curve

									-6.7 / 35	-6.7 / 23	-3.6 / 20	+10.3 / 0	+15.5 / 17	+15.7 / 30
+50		37.20				-0.1	+0.1							
			10.5		10.2	5.2	10.1	11.2					4.0	
+44	36.9	37.2	5.4		5.1	-0.1	+0.1	F 6.1 / 26.1			-5.9 / 21	-0.3 / 0	+4.2 / 13	C - 6.1 / 21.0

℄

348	33.8	38.06	5.4	10.1	1.1	5.8	2.4 / -1.4	4.4 / +1.4	F 4.5 / 23.8 ; ~~5.6 / F-3.2 / 21.8~~		-4.3 / 0	-4.1 / 8	F.2.4 / 20.6 ; ~~6.3 / C-1.9 / 18.9~~
+.00343 +50	35.9	37.89	3.0	9.3	1.0	7.3	2.4 / -1.4	5.9 / +1.4	F 4.0 / 23.0 ; ~~5.4 / F 3.6 / 21.5~~	-4.2 / 12	-2.0 / 0	-2.6 / 8	Grade / 18.0 ; ~~4.7 / C-1.2 / 18.6~~
347	36.7	37.71		5.4		4.4	5.7 / -1.4	3.0 / +1.4	F, 3.4 / 22.1 ; ~~6.2 / F-0.6 / 17.7~~	-1.8 / 18	-1.0 / 0	+1.9 / 11	Grade / 18.0 ; ~~.6 / C-1.6 / 18.8~~

(Use grade on inside of curve)

L

+63 49 P.C.C

+50	36.9	38.57	8.9		7.2	8.6 -1.4	5.8 +1.4
349	35.6	38.40	5.4	11.5	2.6	8.7	4.0 -1.4	7.3 +1.4
+50	34.4	38.23	5.4		1.6	3.0 -1.4	0.2 +1.4

X 00343

℄

F 2.2 / 20.3
F 1.9 / 18.5

-20 / 1 -17 / 0 +31 / 7

C 1.2 / 18.6
C 2.6 / 19.3

F 3.6 / 22.4
F 2.4 / 20.6

-28 / 0 -26 / 8

C 0.8 / 18.4
C 2.8 / 19.2

F 5.0 / 24.5
F 3.8 / 21.5

-38 / 0 -37 / 11

F 2.9 / 21.4
F 2.1 / 19.8

(Use ℄ grade on inside of curve)

℄

351	35.9	39.09	5.4	11.0	2.2	7.8	2.6 -0.4	7.4 +0.4	F 3.3 / 22.0 5.7 F 3.8 21.6		-3.2 / 0	-2.8 / 8	C 0.8 / 18.4 6.2 C-1.2 18.6
+50	35.9	38.91	5.0	11.8	2.0	8.8	2.8 -0.8	8.0 +0.8	F 3.4 / 22.1 5.4 F 2.6 20.9		-3.0 / 0		C 4.3 / 20.2 3.9 C-5.1 20.5
350	37.8	38.74	4.5	11.3	3.6	10.4	4.8 -1.2	9.2 +1.2	F 2.0 / 20.0 5.6 F 0.8 18.2	-1.8 / 3	-0.9 / 0	+2.9 / 6	C 4.6 / 20.3 3.4 C-5.8 20.9
+80	38.3	38.6			5.1				-2.2 / 22	-1.7 / 3	-0.3 / 0	+1.2 / 4	+1.2 / 25

(Use ℄ grade on inside of curve)

℄

+50	36.6	39.68	5.4	2.3	2.4 −0.1	2.2 +0.1	
+17 16 EC	36.3	39.5	5.4	2.2	2.4 −0.2	2.0 +0.2	
E.V.C 352	36.3	39.43			−0.2	+0.2	
+50	36.0	39.26	5.4	2.1	2.4 −0.3	1.9 +0.3	

5.5 / F 3.1 / 21.6

−3.5 / 17 — −3.1 / 0 — −3.6 / 12

6.1 / F 3.9 / 22.8

F 4.7 / 24.1 — 6.9 / F 4.8 / 25.7

−3.2 / 0

F 3.7 / 22.5 — 5.5 / F 3.5 / 21.2

F 4.5 / 23.8 — 6.6 / F 4.2 / 23.3

−3.3 / 0 — −4.1 / 13

F 3.6 / 22.4 — 5.2 / F 3.0 / 21.1 / 9.1

(Use ℄ grade on inside of curve)

354	44.1	41.06	5.8	8.8	10.8 F2.0 20.0	-22 14	+3.0 0	+1.6 3	5.5 C-3.3 19.6
+50	38.7	40.57	5.4	3.5	5.9 F2.4 20.6	-2.7 8	-1.9 0	-0.5 7	2.8 C-0.7 18.3
+25	Balance Pt.								
E.V.C. 353	37.8	40.09	4.9	2.6	5.4 F2.8 21.2	-3.9 1	-2.3 0	-3.0 12	4.7 F2.1 20.1

Loop

L												
+74 26 B.C.	44.7	42.7	4.3	12.6	6.3	14.6	7.6 −1.3	13.3 +1.3	C 1.1 / 18.6 / C-3.2 / 19.1	+0.7 / 3	+2.0 / 0	+7.5 / 4	C 10.8 / 23.4 / C-12.2 / 24.1
+ 50 B.V.C.	Balance Pt.												
+50	42.9	42.51		12.4		12.8	13.8 −1.0	11.8 +1.0	C.0.6 / 18.3 / 12.3 / C-4.6 / 18.7	0.0 / 3	+0.4 / 0	+2.6 / 6	C 3.3 / 19.7 / C-4.2 / 20.1
+00	355	40.6	42.03		10.1		8.4	8.8 −0.4	8.0 +0.4	F 1.0 / 18.5 / 8.6 / F-0.8 / 18.7	−1.2 / 3	−1.7 / 0	+0.7 / 5	C 4.0 / 20.0 / 5 / C-9.6 / 14.3
+50	42.0	41.54		8.0		8.6			10.0 / F 1.5 / 19.2	−1.2 / 12	+0.5 / 0		4.7 / C-3.8 / 19.9

Note: Change ℄ Grade to inside of curve for superelevation.

+26 28	EC.	42.8	43.5	5.9	13.0	4.7	12.3	6.2 -1.5	10.8 +1.5	F 7.3 28.0 F 26.7	-7.5 23	-1.3 12	-0.7 0	-0.2 15	+7.8 18	C 4.0 20.0 C 16.4
357		42.7	43.40	5.4	13.3	4.7	12.6	6.4 -1.7	10.9 +1.7	F 8.4 29.6 F 21.9	-0.9 12	-0.7 0	-0.6 11	+4.9 17		Grade 17.2
EVC. +50		43.9	43.20	5.4	13.0	6.1	13.7	8.1 -2.0	11.7 +2.0	C 0.6 18.3 C 17.7	+0.4 19	+0.7 0	+1.0 8	+6.7 15		C 7.0 21.5 C 22.6
356		45.7	42.92	3.7	11.4	6.5	14.2	8.2 -1.7	12.5 +1.7	C 1.3 18.6 C 17.3	+1.5 2	+2.8 0	+8.0 3			C 6.4 21.2 C 22.1

(Use ℄ grade on inside of curve)

BYC.

+50 43.4 44.0 5.4 20.4 4.8 23.8

4.8
Gr
18

-0.6
0

+11.3
3.2
C-20.6
28.3

+0.04

358 43.4 43.80 5.4 +22.8 5.0 22.4 5.3 -0.3 22.1 +0.3

F 6.8
27.2
11.8
F 6.5
26.7

-0.7 -0.4 -0.5 +9.6
17 0 9 13

C 15.8
25.9
C-16.1
26.1

+50 42.8 43.60 5.4 +20.2 4.6 19.4 5.6 -1.0 18.4 +1.0

F 7.3
28.0
10.0
F 6.4
26.6

-7.0 -1.4 -0.8 -0.4 +9.3
21 12 0 12 17.0

C 10.7
23.4
C-2.1
24.0

(Use ℄ grade on inside of curve)

R							1.3	5.5	10.1 F 8.8 30.2	-3.7 20	-3.3 0	+3.5 13	5.5 Gr. 18
+05 11 BC	42.9	46.2	5.4	8.0	2.1	47	+0.8	-0.8					
BVC 360	43.0	46.07		2			+0.7	-0.7					
EVC +50	43.6	45.13	5.4	27.7	3.1	26.2			4.9 F 1.0 18.5	-1.5 0	-14 10	+4.9 21	9.7 C-16.5 26.2
359	44.1	44.38	5.5	20.1	5.2	23.8			4.9 C-0.3 18.1		-0.3 0	+5.7 14	+15.8 17	5.1 C-18.7 27.4

+50 42.8 47.57 0.5 5.4 28.6 +4.3 0.6 23.8 +6.5 +1.6 +2.2 26.0 -2.2

11.0 F 17.5 / 43.2 -14.5 / 38 -5.1 / 24 -4.8 / 0 -0.1 / 5 +1.4 / 14 +11.8 / 19 7.2 C -18.8 / 27.4

+35 Balance Pt.

361 42.6 47.29 5.4 26.1 0.7 21.4 +1.4 +2.2 23.6 -2.2

15.2 F 16.6 / 41.9 -13.3 / 33 -4.9 / 20 -4.7 / 0 -4.9 / 9 +0.7 / 20 +12.1 / 22 7.9 C -15.7 / 25.8

+50 42.7 46.84 5.4 23.2 1.3 19.1 +0.1 +1.4 20.5 -1.4

11.0 F 11.1 / 33.7 -8.7 / 24 -4.1 / 16 -4.1 / 0 -4.7 / 11 +0.1 / 18 9.0 C -11.5 / 23.7

+85. Balance Pt.

+50	44.7	48.05	0.1	70.0	+3.2	66.7	+3.6 +0.4	67.1 -0.4	12.4 F 16.0 41.0	-14.9 32	-3.5 20	-3.3 0	-3.3 6	+30.0 20	+52.7 32	0.2 C -66.9 51.4
+25	44.2	48.0	0.5	56.1	+3.3	52.3	+0.7	53.0 -0.7	-16.6 45	-14.6 35	-4.3 18	-3.8 0	-3.0 9	+37.5 29		5.4 C -47.6 41.8
363	43.7	48.00	0.2	39.9	+4.1	35.6	+5.2 +1.1	36.7 -1.1	11.5 F 16.7 42.0	-15.3 35	-5.1 20	-4.3 0		-4.3 8		10.9 C -25.8 30.9
+76 07	EC. 43.3	48.00	1.3		+3.1	32.3	+4.6 +1.5	33.8 -1.5	13.0 F 17.6 43.4	-14.8 35	-5.2 21	-4.4 0		-4.0 1	+4.6 3	+2.0 C -35.8 35.9
+50	43.1	47.96	5.4	37.2	0.5	32.3	+1.4 +1.9	34.2 -1.9	18.2 F 19.6 46.4	-15.5 36	-5.0 21	-4.9 0	-4.9 2	+1.1 3		6.4 C -27.8 31.9
+25	43.2	47.9	5.4	34.5	0.7	29.8	+2.0	31.8 -2.0	-15.9 46	-15.6 38	-5.3 22	-4.7 0	-4.0 3	+13.8 8		3.0 C -28.8 32.4
362	42.9	47.82	1.9	29.3	+3.0	24.4	+5.1 +2.2	26.8 -2.2	12.0 F 17.5 43.2	-14.5 38	-5.2 23	-4.9 0		+6.4 8		4.2 C -22.6 29.3

365	48.0	48.93	3.2	50.7	2.3	49.8	4.2 / -2.0	47.8 / +2.0	7.8 F3.6 / 22.4		-1.7 / 17	-0.9 / 0	-0.9 / 7		18.5 C-29.3 / 32.7
L +766 46 B.C.	47.2	48.8	0.3	13.0	+1.3	11.4	0.4 / -1.7	9.7 / +1.7	2.5 F2.1 / 20.1		-2.3 / 17	-1.6 / 0	-1.5 / 12		+3.3 C-13.0 / 24.5
+50	46.9	48.56	0.0	13.3	+1.7	11.6	-1.3	10.8 / +1.3		-17.6 / 41	-2.4 / 17	-1.7 / 0	-1.7 / 10	+	+1.5 C-11.8 / 23.9
+25	46.4	48.4	0.6	72.9	+1.4	70.9	-0.9	70.0 / +0.9	-17.8 / 45	-16.6 / 36	-2.4 / 17	-2.0 / 0	-2.0 / 8	+54.8 / 33	9.2 C-60.8 / 48.4
364	45.7	48.24	0.8	68.5	+1.7	66.0	+1.2 / -0.5	65.5 / +0.5	15.6 F16.7 / 42.1	-16.3 / 36	-2.5 / 18	-2.5 / 0	-2.5 / 5	+54.6 / 38	0.8 C64.7 / 50.3
+75	45.3	48.1	0.0	72.3	+2.8	69.5			-17.6 / 50	-17.2 / 41	-3.4 / 19	-2.8 / 0	-2.8 / 4	+61.5 / 42	4.0 C-55.3 / 50.7

+50	48.7	50.04			-0.9	+0.9	F 14.0 / 38	-13.0 / 32	-1.9 / 13	-1.3 / 0	-1.0 / 11	C 1.0 / 20		
+25	48.9	49.9	37.9	36.9	-1.4	+1.4	35.5 -14.4 / 45	-13.6 / 33	-1.6 / 15	-1.0 / 0		-0.9 / 8	7.7 C -27.8 / 31.9	
+07 48 E.C.	48.9	49.8		28.2	-1.6	+1.6	26.6 F 14.2 / 38.3	-12.2 / 31	-1.5 / 16	-0.9 / 0		-0.9 / 8	+10.0 / 15	10.5 C -16.1 / 26.6
366	49.0	49.67			-1.6	+1.6								
+50	48.9	49.30	3.0	38.8	2.6	38.4	4.8 -2.3	36.1 +2.3	3.4 F 14.4 / 19.1		-0.4 / 0	-0.4 / 6		4.9 C -31.2 / 33.6

+100

+.0074

368	49.4	51.15	-0.7	+0.7	
+50	50.8	50.78	-0.5	+0.5	
L +35.84 BC					
367	48.5	50.41	-0.3	+0.3	

F 1.5 / 19.3 — C 8.9 / 22.5

~~F 1.2 / 18.8~~ -1.8 -1.5 / 5 +7.8 / 12 ~~C 11.0 / 13.0~~

F 1.5 / 19.3 — C 11.1 / 23.6

2. ~~F 1.9 / 20.0~~ -2.0 / 3 0.0 / 6 +6.1 / 5 ~~C 11.9 / 20.8~~

Note: Use ℄ Grade on inside of curve for superelevation. Sta 367+35.84 to 369+43.10

F 10.3 / 32.5 — C 10.1 / 23.1

~~F 10.5 / 32.5~~ -2.5 / 15 -1.9 / 0 -1.5 / 10 +1.7 / 15 ~~C 9.9 / 21.2~~

+65. Balance Pt.				
+50	51.5	52.26	-0.4	+0.4
+43 10 E.C.				
4+00				
+369	51.4	51.89	-0.7	+0.7
+50	49.9	51.52	-0.7	+0.7

F 8.3 / 29.5 — F 29 — -7.2 / 21 — -1.2 / 11 — -0.8 / 0 — C 0.9 / 8 — F 1.1 / 18.7

F 8.0 / 29.0 — F 27.5 — -6.0 / 13 — -0.5 / 0 — -1.5 / 3 — C 0.1 / 18 — F 1.8 / 19.7

F 8.0 / 29.0 — F 7.6 / 28.4 — -7.3 / 21 — -1.7 / 9 — -1.6 — -0.4 / 16 — C 0 / 12.2 — F 1.0 / 18.5

(Use & grade on inside of curve)

371 53.8 53.95 +0.1 −0.1

+50 52.7 53.21

370 52.0 52.65 −0.2 +0.2

BYC
+75

0.0/17 −0.2 −0.2/12 +1.6/14 C 3.3/19.6

F. 4.0/23 −3.6/16 −0.7/10 −0.5 −0.5/14 +1.2/15 C. 2.2/19.1

F. 8.1/29.2 ~~F. 7.8/28.7~~ −0.6/9 −0.6/0 F. 0.7/18.1 ~~C. 0.9/2.7~~

	+5-0	57.6	58.56	+0.22-0.22	-3.2 / 21.8 -1.0 C. 0.3 / 18.1
	373	60.5	57.63	+0.2-0.2	0.0 / 17.8 +2.1 / 14 + 2.9 / 0 C 3.1 / 19.7
5810	+5-0	60.7	56.71	+02-0.2	0.0 / 20.4 +3.3 / 15 +4.0 / 0 +4.2 / 13 +6.2 / 16 C. 7.1 / 21.7
	+25.	Balance Pt			
	372	58.0	55.78	+0.2 -0.2	F. 0.0 / 17 +1.5 / 14 +2.2 / 0 +2.4 / 16 +4.1 / 17 C. 5.0 / 20.5
	R. +53 89 B.S.				
	+50	55.5	54.85	+0.1 -0.1	F. 4.7 / 24? -0.2 / 12 +0.1 +0.2 / 11 +1.6 / 12 C. 4.9 / 20.6

37C	66.3	66.33	-0.9 +1.0	F 8.4 / 29.6	-7.7 / 25 +0.5 / 14 0.0 / 0 +0.7 / 10 +4.9 / 12 C. 7.7 / 21.8
+5°	63.4	64.01	-1.9 +2.0	F 4.4 / 23.6	-3.7 / 20 -0.8 / 13 -0.6 -0.6 / 10 +2.3 / 12 C. 3.1 / 19.6
375	61.1	61.78	-1.9 +2.0	C 0.7 / 18.1	-0.7 -0.3 / 13 F 0.4 / 17.6
+5°	60.0	60.71	-1.2 +1.3	C 1.0 / 18.5	-0.4 / 0 -1.7 / 10 C. 0.2 / 18.1
374	58.6	59.18	-0.5 +0.6	F. 8.0 / 29.0	-1.5 / 12 -0.9 F. 0.9 / 18.4

Sta.	Elev. Grade	L	℄	R
296	571.92			
+50	571.76			
295	571.60			
+50	571.44			
294	571.28			
+75	571.20			
+50	571.12			
+25	571.04			
293	570.96			

Slope stakes. Co. road

Hill
Soper
Remmen

9/8/35

Sta.	Elev. Grade	Super. El.	℄		
177	470.6	470.70	+0.7 -0.7	C 7.2 / 21.6	+20.0	C 29.5 / 32.5
+50	477.4	489.65	+07 -0.7	C 8.1 / 22.2	+7.8	C 20.6 / 28.3
176	477.3	488.18	+0.7 -07	C 2.8 / 19.1	+9.1	C 8.6 / 22.3
+50	487.3	486.31	+0.7 -0.7	F 4.1 / 23.6	+1.0	C 10.0 / 23.0
175	476.7	484.04	+05 -.05	F 12.8 / 36.2	-7.3	F 3.2 / 21.8

Sta.	Elev.	Grade	Super El.		℄	
180	512.5	488.45 V	+0.7 -0.7	C 10.2 / 23.1	+24.0	C 36.2 / 36.1
+50	514.6	489.81	+0.7 -0.7	C 9.7 / 22.9	+24.3	C 12.6 / 39.3
179	514.1	490.83 V	+0.7 -0.7	C 9.1 / 22.5	+23.3	C 11.0 / 40.0
+50	510.3	491.41 V	+0.7 -0.7	C 8.0 / 22.0	+18.9	C 28.1 / 37.7
178	507.0	491.58	+0.7 -0.7	C 7.1 / 21.5	+15.5	C 31.6 / 32.8
177+50	509.0	491.34 V	+0.7 -0.7	C 7.6 / 21.8	+17.7	C 30.0 / 33

Sta.	Elev. Grade	Super. El.			
+50	465.8	480.03	F 14.4 / 38.6	-14.2	F 5.6 / 25.4
182	473.8	481.43	+0.2 -0.2	F. 16.4 / 41.6	-7.6	F. 4.9 / 24.4
181+85	Balance Pt.					
181+50	479.8	483.10	+0.4 -0.4	F. 6.6 / 26.9	-3.3	F. 0.6 / 17.9
180+96	491.1	484.90	+0.7 -0.7	C. 1.0 / 20.0	+9.2	C. 8.0 / 22
181+65.00	Balance Pt					
180+50	496.3	486.70	+0.7 -0.7	C. 10.4 / 23.7	+9.6	C. 23.4 / 29.7

Sta	Elev.	Grade				
185 +50	490.9	477.22	+2.2 - 2.2	C. 7.6 / 21.8	+13.7	C. 22.6 / 29.3
184+96	480.0	477.03	+2.1 - 2.2	F. 1.7 / 19.6	+3.0	C. 8.8 / 22.4
+50	476.8	477.09	+1.4 - 1.5	F. 3.1 / 21.6	-0.3	C. 0.7 / 18.4
184	474.3	477.13	+0.8 - 0.8	F 11.4 / 34.1	-3.1	F. 0.3 / 17.5
+50	466.4	478.03		F. 11.8 / 34.7	-11.6	F 3.6 / 22.4
183	466.0	478.90		F 12.8 / 36.2	-12.9	F. 10.2 / 32.3

Sta.	Elev. Grade	Super El.			
+50	479.1 479.20	−1.5 +1.5	C 1.2 / 18.6	−0.1	C 2.5 / 19.3
188	479.6 478.67				
			C 0.4 / 18.2	+0.7	C 7.6 / 21.8
+75	Balance Pt				
+50	480.2 478.59	+1.3 − 1.3	C 0.3 / 18.2	+1.7	C 16.6 / 23.3
187	480.3 478.21	+2.2 −2.2	C 0.6 / 18.3	+2.1	C 21.6 / 28.6
+50	496.0 477.88	+2.2 −2.2	C 0.3 / 18.2	+18.1	C 30.3 / 33.2
186	497.2 477.55	+2.2 −2.2	C 10.3 / 23.2	+19.6	C 31.2 / 33.6

Soper 3-24-36
Isbell
Hemmen

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Sta.	Elev Grade		Super El.	℄	℄	RT
+50	479.6	480.79	+2.0, -1.9	F 0.7 / 18.1	-1.2	F 2.4 / 20.6
191	478.0	480.59	+2.0, -1.9	F 1.0 / 18.5	-2.6	F 2.5 / 20.8
+50	477.9	480.10	+2.0, -1.9	F 1.1 / 18.7	-2.5	F 2.8 / 21.2
190	478.1	480.20	+2.0, -1.9	F 1.2 / 18.8	-1.8	F 2.2 / 20.3
189+50	Balance Ft.					
+50	479.0	479.87	+2.0, -1.9	F 1.3 / 19.0	-0.9	F 2.6 / 20.9
189	479.1	479.54	-2.0	C 0.6 / 18.3 C 1.1 / 18.6	-0.4	C 1.1 / 18.6 C 0.9

Sta.	Elev. Grade		Super El. +					
					H	℄	RH	
+50	482.5	481.57	0.2					
193.	482.2	481.37	0.8					
+50	481.7	481.18	-1.5	1.6	C 0.6 / 18.3	+0.5	Gr. / 17.0	
192	480.8	480.98	+2.0, -1.9		Gr. / 18.0	-0.2	F 1.2 / 18.8	

Slope stakes Co. road

Sta	Elev	Grade			
15-5	15-2.3	458.02	F 5.6 / 25.1	-5.7	F 5.6 / 25.4
+50	452.1	458.18	F 6.1 / 26.2	-6.1	F 6.1 / 26.2
5-1	151.6	458.35	F 6.8 / 27.2	-6.8	F 6.8 / 27.2
+50	151.5	458.51	F 7.0 / 27.5	-7.0	F 6.8 / 27.2
15-3	15-1.0	458.67	F 7.4 / 28.1	-7.7	F 7.4 / 28.1

Sta.	Elev.	Grade		
157+50	453.4	457.40	F 3.8 / 22.7	-4.0	F 4.0 / 23.0
157	453.0	457.38	F 4.4 / 23.6	-4.4	F 4.3 / 23.5
+50	Balance Pt				
156+50	452.8	457.53	F 4.6 / 23.9	-4.7	F 4.6 / 23.9
156	452.6	457.69	F 5.2 / 24.8	-5.1	F 5.0 / 24.5
155+50	452.5	457.85	F 5.4 / 25.1	-5.4	F 5.3 / 25.0

Sta.	Elev. Grade			
160	454.8	459.06	F 1.2 / 23.3	-4.3 F 4.2 / 23.3
+50	454.4	458.69	F 3.8 / 22.7	-4.3 F 1.2 / 23.3
159	454.3	458.32	F 3.8 / 22.7	-4.0 F 1.0 / 23.0
+50	454.0	457.94	F 4.0 / 23.0	-3.9 F 1.0 / 23.0
158	453.8	457.60	F 3.9 / 22.8	-3.8 F 4.1 / 23.1

Sta.	Elev. Grade			
45+00	455.7	460.92	-5.2	
162	455.8	460.55	-4.9	
45+50	455.6	460.18	-4.6	
161	455.3	459.81	F. 4.0 / 23.0 -4.5	F. 4.7 / 24.1
160+45+00	455.0	459.43	F. 4.0 / 23.0 -4.4	F. 4.4 / 23.6

Oct. 15 1935
Soper
Remmen

Sta.	℄ Elev	Grade	Grade rod	Super Elev. C.	Super Elev. F	L	℄	R.
296	506.7	511.92	-5.2			F 4.4 / 23.6		F. 4.1 / 23.1
+50	506.2	511.76	-5.6			F 4.8 / 24.2		F 4.4 / 23.6
295	506.3	511.60	-5.3	0.7	0.6	F 8.2 / 29.3		F 4.4 / 23.6
+50	505.4	511.44	-6.0	1.3	1.3	F 9.7 / 31.6		F 4.0 / 23.0
+25	505.9	511.36	-5.5	1.7	1.6	F 10.6 / 32.9		F 2.2 / 20.3
294	509.6	511.28	-1.7	2.0	1.9	F 10.9 / 33.4		F 2.1 / 20.3
+75	508.9	511.20	-2.3	2.0	1.9	F 4.8 / 24.2		C 15.6 / 18.0 vert cut
+50		511.12						
+35	533.8	511.07	+22.7	2.0	1.9			C 30.8 / 18.0 vert cut
+25		511.04						
293	509.2	510.96	-1.8	2.0	1.9	F 5.2 / 24.8		C 3.5 / 18.0 Vert cut

Note: use ℄ grade on inside of curve for superelevating. Vertical cut around Cape Horn - 18' out

Sta.	℄ El.	Grade	Grade red	L	℄	R.
+30	509.3	513.36	-4.1	F 6.8 / 27.2		F 2.3 / 20.5
300	509.0	513.20	-4.2	F 6.1 / 26.1		F 3.7 / 21.0
+50	508.7	513.04	-4.3	F 5.5 / 25.3		F 2.3 / 20.5
299	508.3	512.88	-4.6	F 5.0 / 24.5		F 3.4 / 22.1
+50	507.9	512.72	-4.8	F 4.8 / 24.2		F 3.4 / 22.1
298	507.4	512.56	-5.2	F 4.6 / 23.9		F 3.0 / 21.5
+50	507.6	512.40	-4.8	F 4.6 / 23.9		F 4.0 / 23.0
297	507.0	512.24	-5.2	F 4.8 / 24.2		F 3.7 / 22.5
296+50	506.9	512.08	-5.2	F 5.1 / 24.6		F 3.8 / 21.7

Oct. 17 1935
Soper
Rennmeo

Sta.	℄ Elev.	Grade	Grade rod	Super cut	Super elev. Fill	L.	℄	R
245		503.90						
+90	519.2	503.87	+15.3			F 2.1 / 20.1		C 30.0 / 33.0
+50	518.3	503.73	+14.6	0.36	0.33	F 2.7 / 20.8		C 27.2 / 31.6
244	516.9	503.56	+13.3	0.85	0.80	F 2.1 / 20.1		C 23.8 / 29.9
+50	513.6	503.38	+10.2	1.33	1.25	F 0.9 / 18.4		C 19.6 / 29.8
243	500.7	503.21	-2.5	1.44	1.36	F 1.2 / 18.8		C 6.2 / 21.1
+50	499.5	503.03	-3.5	1.44	1.36	F 2.8 / 21.2		F 3.0 / 21.5
242	499.2	502.86	-3.7	1.44	1.36	F 3.0 / 21.5		F 3.4 / 22.1
+50	499.5	502.69	-3.2	1.44	1.36			
241	499.6	502.51	-2.9	1.44	1.36			

Sta.	℄ Elev.	Grade	Grade Rod
+50	524.9	505.47	+19.4
219	525.4	505.30	+20.1
+50	514.5	505.12	+9.4
218	504.2	501.95	-0.8
+50	503.7	501.77	-1.1
217	503.6	501.60	-1.0
+50	503.3	501.13	-1.1
216	503.0	501.26	-1.3
215+50	507.6	504.08	+3.5

Note - Advisable to daylight these sections.

L.	℄	R.
Grade / 21.9	20.0 / +12.2	C 28.5 / 32.3
Grade / 18.5	11.0 / +16.0	C 29.2 / 32.6
F 0.2 / 17.3		C 21.1 / 28.6
F 1.6 / 19.4		C 3.9 / 19.9
F 8.2 / 29.3		F 0.7 / 18.0
F 8.3 / 29.5		F 0.4 / 17.6
F 7.4 / 28.1		C 2.3 / 19.2
F 1.6 / 19.4		C 17.0 / 26.5
F 1.4 / 19.1		C 24.6 / 30.3

Sta.	℄ Elev	Grade	Grade Rod.	Super Cut	Elev. Fill	L.	℄	R
254	505.2	505.42	−0.2	1.4	1.3	C 0.3 / 18.2		C 6.4 / 21.2
						~~C 1.7 / 18.9~~		~~C 8.0 / 22.0~~
						F 0.5 / 17.8		C 10.7 / 23.4
+50	516.1	505.51	+10.6	1.4	1.3	~~C 0.7 / 18.3~~		~~C 12.3 / 24.2~~
						Grade 20.7		C 9.7 / 22.9
253	514.7	505.60	+9.1	1.4	1.3	~~Grade 22.1~~		~~C 11.3 / 23.7~~
						C 1.3 / 18.7		C 7.4 / 21.7
+50	510.5	505.70	+4.8	1.0	0.9	C 2.2 / 19.1		~~C 8.4 / 22.2~~
						F 5.1 / 24.7		C 1.0 / 18.5
252	503.8	505.80	−2.0	0.5	0.4	~~F 4.8 / 24.2~~		~~C 1.5 / 18.8~~
				(Use ℄ grade on inside of curve)				
+50	511.8	505.90	+5.9			F 0.6 / 17.9		C 11.7 / 23.8
251	511.9	506.00	+5.9			F 4.2 / 23.3		C 14.7 / 25.4
+50	519.1	505.82	+13.3			C 4.8 / 20.4		C 22.3 / 29.1
250	523.3	505.64	+17.7			C 9.9 / 22.9		C 25.6 / 30.8

Sta.	℄ Elev.	Grade	Grade Rod	Super Cut	Super Fill	L	℄	R
						F 3.9 / 22.9		F 3.5 / 22.3
+50	500.6	504.61	-4.0			F 4.0 / 23.0		F 3.8 / 22.7
258	500.7	504.70	-4.0			F 4.0 / 23.0		F 4.0 / 23.0
						F 4.3 / 23.5		F 4.0 / 23.0
+50	500.7	504.79	-4.1			F 4.1 / 23.2		F 3.9 / 22.9
						F 4.1 / 23.2	staked on 100ft stations Moved on new alignment	F 3.9 / 22.9
257	500.9	504.88	-4.0					
						F 3.6 / 22.4		F 4.2 / 23.3
+50	501.0	504.97	-4.0	0.5	0.4	F 3.6 / 22.4		F 5.3 / 25.0
						F 2.7 / 21.0		F 4.4 / 23.6
256	501.4	505.06	-3.7	1.0	0.9	F 4.7 / 24.1		F 5.4 / 25.1
						F 3.4 / 22.1		F 4.2 / 23.3
+50	501.8	505.15	-3.4	1.4	1.3	F 5.2 / 24.8		F 4.0 / 23.0
						F 3.6 / 22.4		F 2.5 / 20.8
255	500.3	505.24	-4.9	1.4	1.3	F 5.5 / 25.3		F 2.9 / 21.4
						F 2.5 / 20.8		F 1.7 / 19.5
254+50	504.9	505.33	-0.4	1.4	1.3			

(Use ℄ grade on inside of curve)

Sta.	℄ Elev.	Grade	Grade Rod.
263	501.8	503.81	-2.0
+50	501.5	503.89	-2.4
262	501.6	503.98	-2.4
+50	501.5	504.07	-2.6
261	501.3	504.16	-2.9
+50	501.1	504.25	-3.2
260	501.1	504.34	-3.2
+50	500.8	504.43	-3.6
259	500.8	504.52	-3.7

L.	℄	R
F 2.2 / 20.3		F 2.0 / 20.0
F 2.0 / 20.0		F 2.0 / 20.0
F 2.3 / 20.5		F 2.0 / 20.0
F 2.4 / 20.6		F 2.3 / 20.5
F 2.4 / 20.6		F 2.3 / 20.5
F 2.9 / 20.8		F 2.8 / 21.2
F 3.0 / 21.5		F 2.8 / 21.2
F 2.8 / 21.2		F 2.7 / 21.1
F 3.2 / 21.8		F 3.0 / 21.5
F 3.4 / 22.1		F 3.1 / 21.7
F 3.4 / 22.1		F 3.1 / 21.7
F 3.5 / 22.3		F 3.4 / 22.1
F 3.6 / 22.4		F 3.5 / 22.3
F 3.6 / 22.4		F 3.5 / 22.3

Sta.	℄ Elev.	Grade	Grade Rod.		
+39.79 ℄	501.1	503.20	-2.1	0.1	0.1
266	501.1	503.27	-2.2	0.1	0.1
+50	501.9	503.36	~~-1.5~~	0.2	0.2
265	~~501.1~~	503.45	~~-2.4~~	0.1	0.1
+50	502.8	503.51	-0.7	0.1	0.1
264	501.7	503.63	-1.9		
263+50	501.6	503.72	-2.1		

	L.	℄	R.
F 1.8 / 19.7			F 2.2 / 20.3
F 2.1 / 20.2			F 3.3 / 22.0
F 2.1 / 20.2			F 1.9 / 19.9
~~F 2.1 / 20.2~~			~~F 2.8 / 20.8~~
F 4.9 / 24.4			F 0.6 / 17.9
~~F 4.9 / 24.4~~			C 0.6 / 18.3
F 1.0 / 18.5			~~F 0.4 / 18.3~~
F 1.4 / 19.1			F 1.7 / 19.5
~~F 1.8 / 19.3~~			~~F 2.2 / 20.3~~
F 2.1 / 20.2			~~F 1.8 / 19.7~~

Oct. 21 1935
Soper - Remmen

Sta.	℄ Elev.	Grade	Grade Rod	Super Cut	Super Elev. Fill	L.	℄	R
228	494.0	492.48	+1.5	1.0	0.9	F 6.3 / 24.5		C 1.7 / 18.9
						F 5.4 / 25.1		C 2.7 / 19.4
E.V.C.						F 5.8 / 25.7		C 1.1 / 18.6
+50	493.2	491.89	+1.3	0.5	0.45	F 5.1 / 24.7 (Note: Use ℄ grade on inside of curve)		C 1.6 / 19.8
227	491.7	491.38	+0.3			F 4.0 / 23.0		Grade 18.0
+50	490.5	491.06	-0.6			F 3.8 / 22.7		F 0.3 / 17.5
226	490.2	490.91	-0.7			F 3.8 / 22.7		F 0.5 / 17.8
B.V.C.								
+50	489.7	490.95	-1.2			F 3.2 / 21.8		F 1.0 / 18.5
225	489.1	491.07	-2.0			F 3.9 / 22.9		F 1.8 / 19.7
+50	488.8	491.20	-2.4			F 3.8 / 22.7		F 1.7 / 19.5
224	488.8	491.32	-2.5			F 5.2 / 24.8		F 2.2 / 20.2

Sta.	℄ Elev.	Grade	Grade Rod	Super Cut
2 +50	503.7	497.84	+5.9	1.4
232	503.6	497.25	+6.4	1.4
2 +50	503.4	496.65	+6.8	1.4
231	500.2	496.05	+4.1	1.4
2 +50	495.9	495.46	+0.4	1.4
230	493.2	494.86	−1.7	1.4
2 +50	491.5	494.27	−2.8	1.4
229	491.3	493.67	−2.4	1.4
228+50	494.6	493.08	+1.5	1.4

Elev. Fill	L.	℄	R
1.3	C 0.4 C ~~1.8~~ 18.7 ~~18.9~~		C ~~21.8~~ 28.9 C ~~3.5~~ ~~29.8~~
1.3	F 9.0 30.5 F ~~6.8~~ ~~27.2~~		C 19.6 27.8 C ~~21.3~~ ~~28.7~~
1.3	F 10.1 32.2 F ~~8.6~~ ~~29.9~~		C 6.5 21.3 C ~~7.9~~ ~~27.0~~
1.3	F 9.6 31.4 F ~~8.1~~ ~~29.2~~		C 6.7 21.4 C ~~8.1~~ ~~27.1~~
1.3	F 9.3 31.0 F ~~7.8~~ ~~28.7~~		C 6.2 21.1 C ~~7.6~~ ~~27.8~~
1.3	F 9.6 31.4 F ~~8.0~~ ~~29.0~~		C 5.0 20.5 C ~~6.4~~ ~~27.2~~
1.3	F 9.0 30.5 F ~~7.6~~ ~~28.4~~		C 3.7 19.9 C ~~5.1~~ ~~20.5~~
1.3	F 8.0 29.0 F ~~6.4~~ ~~26.6~~		C 3.0 19.5 C ~~4.4~~ ~~20.2~~
1.3	F 6.9 27.4 F ~~5.6~~ ~~25.4~~		C 2.4 19.2 C ~~3.9~~ ~~20.0~~

(Use ℄ grade on inside of curve)

Oct. 22 1935
Soper - Remmen

Sta.	℄ Elev.	Grade	Grade Rod	Super Cut
237	493.6	501.62	-8.0	
+50	493.2	501.55	-8.3	
236	493.4	501.41	-8.0	
+50	492.8	501.14	-8.3	0.3
235	504.2	500.76	+3.4	0.9
+50	504.8	500.22	+4.6	1.3
234	504.4	499.63	+4.8	1.4
+50	503.6	499.03	+4.6	1.4
233	503.4	498.44	+5.0	1.4

Elev. Fill	℄ L	℄	℄ R
	F 8.2 / 29.3		F 7.3 / 28.0
	F 8.9 / 30.4		F 6.9 / 27.4
	F 8.8 / 30.2		F 6.6 / 26.9
0.3	F 9.5 / 31.3 ~~F 9.7 / 31.8~~		F 3.0 / 21.5 ~~F 2.7 / 21.1~~
0.8	F 10.7 / 33.1 ~~F 9.9 / 31.9~~		C 3.3 / 19.7 ~~C 4.2 / 20.1~~ C 22.9 / 29.5
1.2	C 3.6 / 19.8 ~~C 4.9 / 20.5~~		~~C 24.8 / 30.4~~ C 23.5 / 31.8
1.3	C 3.2 / 19.6 ~~C 4.6 / 20.3~~		~~C 29.4 / 32.9~~ C 27.7 / 31.9
1.3	C 2.8 / 19.4 ~~C 4.2 / 20.1~~		~~C 29.2 / 32.6~~ C 23.5 / 29.8
1.3	C 2.8 / 19.4 ~~C 4.2 / 20.1~~		~~C 25.8 / 30.9~~

(Use ℄ grade on inside of curve)

Sta.	℄ Elev.	Grade	Grade Rod	Super Cut	Elev. F.11	L	℄	R
+50	499.5	502.69	-3.2	1.44	1.36	F 2.6 / 20.9		F 3.0 / 21.5
241	499.6	502.51	-2.9	1.44	1.36	F 4.1 / 23.2		F 3.3 / 22.0
+50	499.7	502.35	-2.6	1.44	1.36	F 5.4 / 25.1		F 3.0 / 21.5
240	500.4	502.17	-1.8	1.3	1.2	F 5.3 / 25.0		F 2.4 / 20.6
+50	502.2	502.00	+0.2	0.8	0.7	F 5.8 / 25.7		F 0.2 / 17.3
239	502.2	501.92	+0.3	0.3	0.3	F 6.9 / 27.4		C 0.9 / 18.5
+50	494.0	501.85	-7.8			F 7.9 / 28.9		F 1.3 / 19.0
238	493.6	501.77	-8.2			F 8.4 / 29.6		F 7.3 / 28.0
237+50	493.5	501.70	-8.2			F 8.4 / 29.6		F 7.4 / 28.1

Oct. 24 1935
Soper-Remmen

Sta	℄ Elev.	Grade	Grade Rod.	Super Cut	Elev. Fill	L	℄	R
+50	488.3	491.45	-3.2			F 5.9 / 25.9		F 2.0 / 20.0
223	488.3	491.57	-3.3	0.1	0.1	F 5.6 / 25.4		F 2.1 / 20.2
+50	488.7	491.70	-3.0	0.2	0.2	F 4.7 / 24.1		F 2.2 / 20.3
222	489.3	491.56	-2.3	0.2	0.2	F 2.9 / 21.4		F 1.6 / 19.4
+50	489.6	491.42	-1.8	0.2	0.2	F 2.8 / 21.2		F 2.6 / 20.9
221	489.9	491.28	-1.4	0.1	0.1	F 2.6 / 20.9		F 1.9 / 19.9
+50	490.2	491.14	-0.9			F 2.1 / 20.3		F 1.3 / 19.0
220	490.2	491.00	-0.8			F 2.3 / 20.5		F 0.8 / 18.2
+50	490.1	490.85	-0.8			F 1.6 / 19.4		F 0.8 / 18.2
219	490.4	490.70	-0.3			F 2.7 / 21.1		F 0.5 / 17.8

Oct. 25 1935
Soper - Remmen

Sta.	℄ Elev.	Grade	G. Rod	L	℄	R
				F 4.8 / 24.2		F 4.8 / 24.2
1+50	458.4	463.17	-4.8			
				F 4.2 / 23.3		F 4.7 / 24.1
165	457.8	462.80	-5.0			
				F 4.1 / 23.2		F 4.5 / 23.8
1+50	457.8	462.42	-4.6			
				F 3.7 / 22.6		F 4.3 / 23.5
164	458.4	462.05	-3.6			
				F 5.3 / 25.0		F 3.1 / 21.7
1+50	457.6	461.68	-4.1			
				F 5.5 / 25.3		F 6.0 / 26.0
163	455.8	461.30	-5.5			
				F 4.9 / 24.4		F 5.1 / 24.7
1+50	455.7	460.93	-5.2			
				F 4.4 / 23.6		F 4.8 / 24.2
162	455.8	460.56	-4.8			
				F 4.4 / 23.6		F 4.7 / 24.1
161+50	455.6	460.18	-4.6			

Sta	℄ Elev.	Grade	G. Rod.	L	℄	R
170	466.1	466.53	-0.4	Grade 17.0		Grade 17.0
+50	465.9	466.15	-0.3	Grade 17.0		F 0.2 17.3
169	465.6	465.78	-0.2	Grade 17.0		F 0.2 17.3
+50	465.2	465.41	-0.2	F 0.9 18.4		Grade 17.0
168	461.8	465.03	-3.2	F 3.7 22.6		F 2.9 21.4
+50	460.9	464.66	-3.8	F 3.7 22.5		F 3.5 22.3
167	460.3	464.29	-4.0	F 4.1 23.2		F 3.0 21.5
+50	459.2	463.91	-4.7	F 4.7 24.1		F 2.5 20.8
166	458.8	463.54	-4.7	F 4.5 23.8		F 4.8 24.2

Oct. 26 1935
Super- Remmen

Sta.	℄ Elev.	Grade	G. Rod	Super Elev. Cut	Super Elev. Fill	L	℄	R
+50	470.5	481.50	- 11.0	0.3	0.3	F 12.0 / 35.0		F 7.8 / 28.7
174	469.4	478.80	- 9.4			F 10.5 / 32.8		F 8.1 / 29.2
E.V.C. +50	468.4	476.10	- 7.7			F 8.0 / 29.0		F 7.0 / 27.5
173	467.8	473.59	- 5.8			F 5.9 / 25.9		F 4.9 / 24.4
+50	467.5	471.48	- 4.0			F 4.1 / 23.2		F 3.7 / 22.6
172	467.1	469.75	- 2.7			F 2.7 / 21.1		F 2.4 / 20.6
+50	466.9	468.41	- 1.5			F 1.3 / 19.0		F 1.2 / 18.8
171	466.6	467.46	- 0.9			F 0.8 / 18.2		F 1.0 / 18.5
B.V.C. 170+50	466.4	466.90	- 0.5			F 0.3 / 17.5		F 0.6 / 17.9

Sta.	℄ Elev.	Grade	G. Rod	Super Cut	Elev. Fill	L	℄	R
+50	451.4	453.16	-1.8					
136	457.8	453.04	+4.8					
+50	460.6	452.92	+7.7	0.3	0.3			
135	461.2	452.80	+8.4	0.9	0.9			
+50	453.2	452.68	+0.5	1.6	1.4			
134	453.3	452.56	+0.7	1.9	1.8			
+50	453.1	452.44	+0.7	1.9	1.8			
133	459.2	452.32	+6.9	1.9	1.8			
132+50	462.7	452.20	+10.5	1.2	1.2			

Sta.	℄ Elev	Grade	G. Rod.	Super Elev. Cut	Super Elev. Fill	L	℄	R
141	453.6	454.24	-0.6	0.5	0.5	F 0.5 / 17.8		
+50	453.5	454.12	-0.6					
140	453.0	454.00	-1.0					
+50	451.5	453.88	-2.4					
139	451.0	453.76	-2.8					
+50	449.1	453.64	-4.5					
138	448.0	453.52	-5.5					
+50		453.40						
137	452.2	453.28	-1.1					

Cold - Raining

Sta.	℄ Elev.	Grade	G. Rod.	Super Cut	Super Fill	L	℄	R
+50	457.6	455.99	+1.6			Grade 17.0		C 25.1 / 30.6
145	457.5	455.76	+1.7			C 2.0 / 19.0		C 30.2 / 33.1
+50	457.5	455.53	+2.0					
144	457.4	455.29	+2.1					
+50	456.8	455.06	+1.7	0.5	0.5	C 1.0 / 18.5		
143	456.0	454.83	+1.2	1.0	0.9	C 0.3 / 18.2		
+50	454.9	454.60	+0.3	1.4	1.3	F 0.2 / 17.3		
142	454.1	454.48	-0.4	1.4	1.3	F 0.8 / 18.2		
141+50	453.6	454.36	-0.8	1.0	0.9	F 0.7 / 18.1		

Oct. 28 1935
Soper-Remmen

Sta	℄ Elev.	Grade	G. Rod.	L	℄	R
150	460.5	458.07	+2.4	C 2.8 / 19.4		C 19.0 / 27.5
+50	460.7	457.84	+2.9	C 1.6 / 18.8		C 13.6 / 24.8
149	459.8	457.61	+2.2	F 8.1 / 29.2		C 10.8 / 23.4
+50	459.0	457.38	+1.6	F 7.8 / 28.7		C 14.1 / 25.1
148	458.6	457.15	+1.4	F 8.0 / 29.0		C 13.5 / 24.8
+50	458.1	456.92	+1.2	F 7.8 / 28.7		C 1.0 / 18.5
147	457.8	456.68	+1.1	F 7.9 / 28.9		C 1.9 / 19.0
+50	457.9	456.45	+1.4	F 7.8 / 28.7		C 2.0 / 19.0
146	458.0	456.22	+1.8	F 7.8 / 28.7		C 14.2 / 25.1

cont'd on page 59

Sta.	℄ Elev.	Grade	G. Rod	Superelev. C	Superelev. F
292+50	509.9	510.80	-0.9	2.0	1.9
292	510.2	510.64	-0.4	1.6	1.6
+50	510.1	510.48	-0.4	0.9	0.9
291	510.0	510.32	-0.3	0.2	0.2
+50	463.1	458.84	+4.3		
152	460.8	459.00	+1.8		
+50	460.2	458.77	+1.4		
151	459.9	458.54	+1.4		
150+50	459.7	458.30	+1.4		

L	℄	R
F 5.0 / 24.5		F 0.8 / 18.2
F 3.5 / 22.3		F 0.3 / 17.5
F 1.9 / 19.9		F 0.3 / 17.5
F 0.2 / 17.3		F 0.2 / 17.3
F 8.0 / 29.0		C 2.5 / 19.3
C 3.7 / 19.9		C 25.1 / 30.6
C 2.2 / 19.1		C 29.3 / 32.7
C 2.1 / 19.0		C 29.3 / 32.7
C 1.8 / 18.9		C 23.4 / 29.7

Nov. 20, 1935

Road stations of curves where ℄ elevations to be carried on inside of curve for superelevating

77+83.50 to 81+69.80

199+71.25 to 204+67.27

227+94.14 to 234+84.24 x

251+54.75 to 255+96.85 x

272+27.74 to 279+32.19 = 279+08.09

291+85.27 to 294+41.92 x Cape Horn

314+86.22 to 316+71.88 x

328+60.84 to 330+87.15 x

337+14.44 to 341+22.12 x

346+41.65 to 352+17.16 x

355+74.26 to 357+26.28 x

367+35.84 to 369+43.10 x

x=changed