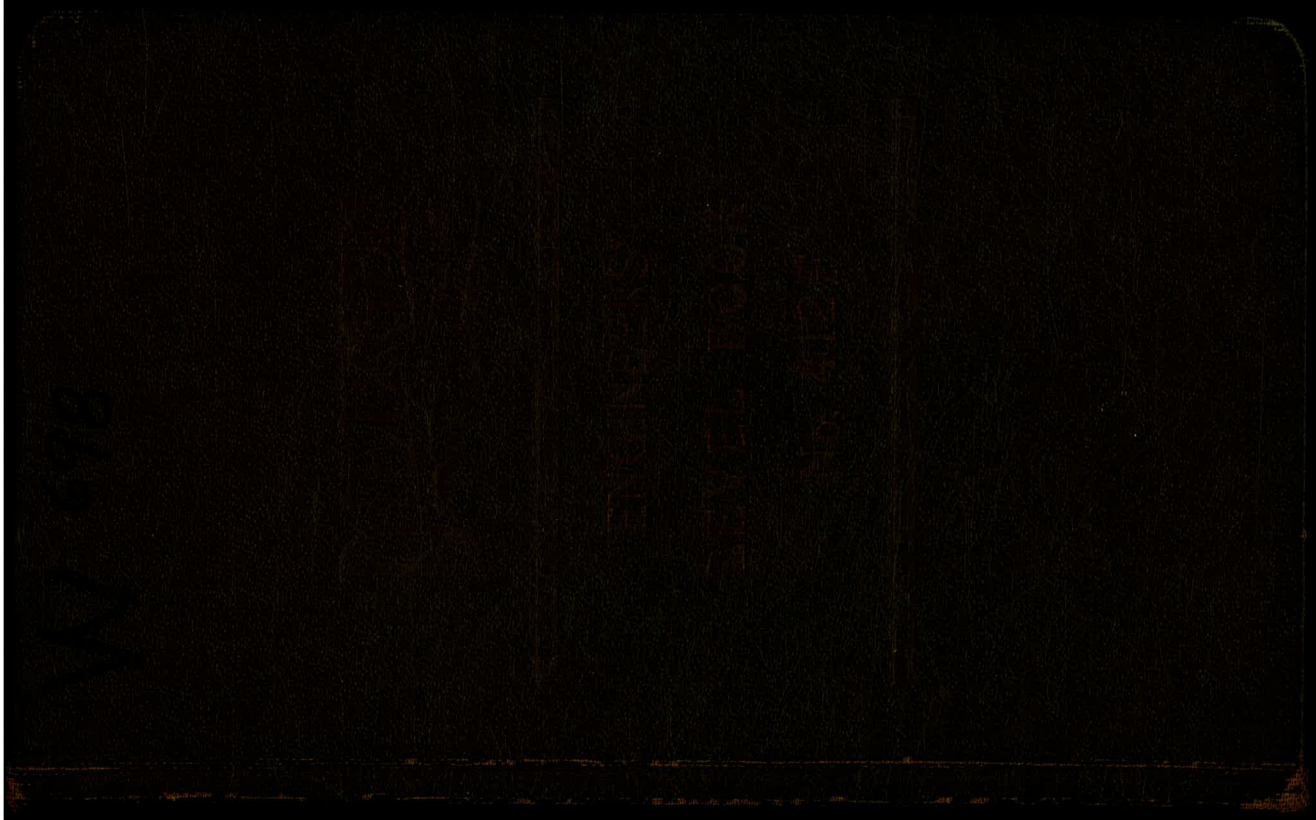


#698

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.

Indexed to p. 58 - 8/19/46 mb

Index 1

Profile levels. Euclid Ave. Via Catalina Dr. Pipe Line from 1180 Rasonia to Polk P. 3-58

2 Highland Aves.

Prof. & Levels Euclid Ave pipe Line & from Murray Lake to Polk & Highland Ave's

Bliss Notes
King ✓
Phillips Rod
8/9/46

	+	✓	−	Elev	
	1.77	538.16 ✓		536.39	City Datum Chisel Cross South End Murray Dam
	5.68	536.42 ✓	7.42	530.74 ✓	
	0.81	524.99 ✓	12.24	524.18 ✓	
1+80			11.82	513.2	on Hub
2+0			12.9	512.1	
+50			15.0	510.0	
+85			15.7	509.3	
+90			17.4	507.6	
3+0			15.7	509.3	
+50			14.8	510.2	
4			13.3	511.7 ✓	
T.P.	0.78	513.58 ✓	12.19	512.80 ✓	
+50			2.9	510.7 ✓	
5+0			4.9	508.7 ✓	

→ See F.B. 691 pgs. 117-18

		A 513.58		
5+50			7.6	506.0
Check BM			5.70	507.88
Set BM			6.50	513.08
6+0			9.4	504.2
+50	P.O.C. on Hub		11.23	502.35
T.P.	1.25	501.87	12.96	500.62
7+00 E.C.	on Hub		5.00	496.9
7+11 54	B.C. Rt on Hub		6.08	495.8
+50			10.3	491.6
TP	0.62	489.74	12.75	489.12
8			5.6	484.1
T.P.	0.47	477.50	12.7	477.03
+50			1.8	475.7
9			10.7	466.8

Spike in Power Pole 507.88 Record

Outside Corner Second Step at Residence SE Corner of Below Grade

11.72
1.87
9.85
503.27
513.12

		47750		
T.P.	0.37	465.03	12.84	464.66
9+42	Top ex. Murray Wood Stake		2.00	462.03
Set BM	0.93	464.90	1.06	463.97 Top Large Boulder 60+- Lt 9+42
+45			5.1	459.8
+50			7.2	457.7
New +72.90 Back	EC = 9786.35	original line ahead	11.39	453.51
T.P.	0.55	454.07	11.38	453.52
10+0			3.0	451.1
			2.3	451.8
+15			5.2	448.9
+50			9.6	444.5
+70			11.3	442.8
11+0			13.3	440.8
T.P.	0.95	442.14	12.88	441.19
+10			2.0	440.1
+50			7.8	434.3
+64			9.6	432.5
+74			12.2	429.9
T.P.	1.52	430.95	12.71	429.43

		* 430.25		
12+00			4.0	427.0
+50			10.8	420.2
T.P.	0.21	418.34	12.82	418.13
+80			3.5	414.8
+85			6.5	411.8
13+00			9.3	409.0
T.P	1.84	407.13	13.05	405.29
+50			2.7	404.4
14+00			7.1	400.0
+50			12.5	394.6
T.P	3.30	400.17	10.26	396.87
Sct BM	0.72	398.97	1.92	398.25
15			8.0	391.0
~~+50~~				
+50			1 1/2	387.8
16			13.3	385.7
T.P.	0.65	387.01	12.61	386.36

Top Large Boulder 65+ - 4 1500

↑
387.01

16+50			5.1	381.9 ✓
~~+65~~				
+65			6.2	380.8 ✓
~~+75~~				
+75			7.7	379.3 ✓
17+00			8.2	378.8 ✓
+50			10.5	376.5 ✓
+90			12.6	374.4 ✓
18			12.5	374.5 ✓
TP	1.23	376.07 ✓	12.17	374.84 ✓
+40			5.5	370.6 ✓
+50			5.7	370.4 ✓
+85			8.8	367.3 ✓

↑ 376.07

19			8.0	368.1	
+20			9.0	367.1	
+35			10.8	365.3	
+50			11.6	364.5	
20			13.0	363.1	
TP.	1.11	364.32	12.86	363.21	
+50			3.2	361.1	
21			4.4	359.9	
Set BM	3.31	362.43	5.20	359.12	60' Rt 21+40 on county PI. Hub
+50			3.3	359.1	
22			4.4	358.0	
+50			5.6	356.8	
+57			7.5	354.9	
+85			8.2	354.2	
23			7.8	354.6	

36243

+30			9.8	352.6
+50			10.8	3516
24			11.6	350.8
+50			12.4	350.0
T.P.	3.25	352.71	12.97	349.46
25			5.1	347.6
+20	Bottom	creek	6.4	346.3
+50	"	"	6.8	345.9
+85	in	creek	5.7	347.0
26	in	creek	7.1	345.6
T.P.	4.95	353.57	4.09	348.62
+10			7.3	346.3
26+50	on N Bank	Main Creek	8.7	344.9
+52	in	Creek	9.4	344.2
+75	"	" low point	9.8	343.8

T
353.57.

TP.	748	351.81	9.24	344.33
27+0		in Creek	7.4	344.4
+15		" "	6.5	345.3
+40		" "	6.5	345.3
+50		" "	5.9	345.9
+70		S. Bank Creek	5.0	346.8
28			4.6	347.2
+50			5.0	346.8
29			5.8	346.0
+50			6.4	345.4

	+	π	−	Elev
		351.81		
30+00			7.5	344.3
+50			8.7	343.1
~~T.P.~~				
+65	u/s Bottom Creek in Flood		7.5	344.3
~~T.P.~~			~~4.80~~	~~34~~
T.P.	11.77	356.20	7.38	344.93
+85	S. Bank in Flood		9.0	347.2
31			7.5	348.7
+50			4.7	351.5
32			2.5	353.7
T.P.	11.74	365.74	2.20	354.00
+50			10.7	355.0
+70			9.0	356.7
33			9.4	356.3

See revision P. 59

		↑ 365.74		
+40			7.2	358.5
+50			5.4	360.3
+65			3.4	362.3
34			0.9	364.8
T.P.	506	369.23	1.57	364.17
+20			1.8	367.4
+50			1.4	367.8
+80			3.0	366.2
35			5.5	363.7
+40			13.3	355.9

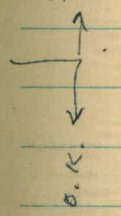
		36923			
+50			16.1	353.1	
+65			20.0	349.2	
36			20.9	348.3	
+20	Bank creek		21.0	348.2	
+25	Bottom creek rock 12" wide		23.0	346.2	
+35	Bank creek		21.0	348.2	
+40			21.8	347.4	
+50			21.5	347.7	
37+0			3.7	365.5	
Set BM	11.88	379.91	12.0	368.03	80' Rt +- 37+20 Small Boulder

		T 379.91		
+25			9.5	370.4
+37			4.3	375.6
+50			1.6	378.3
+58			0.9	379.0
T.P.	12.46	391.61	0.76	379.15
38			1.5	390.1
T.P.	12.36	403.50	0.47	391.14
+20			8.0	395.5
T.P.	11.93	415.10	0.33	403.17
+50			9.4	405.7
T.P.	12.44	427.36	0.18	414.92
39			9.5	417.9
+12			5.9	421.5

		↑ 427.36		
+35			2.7	424.7
T.P.	11.60	438.59	0.37	426.99
+50			10.8	427.8
+77 15			7.7	430.9
set BM.	11.77	444.17	6.19	432.40
40+0			10.9	433.3
+50			7.5	436.7
41			4.0	440.2
+50			1.1	443.1
T.P.	11.15	455.24	0.08	444.09
42			9.7	445.5
+50			6.8	448.4

2×2" 4-6 5' R+ 2937.15

		↑ 455.24			
+90			5.6	449.6	
93			4.4	450.8	
+25			2.4	452.8	
+50			2.8	452.4	
Set BM	410	457.19	2.15	453.09	Mon & Colorado Drive N. Lane Ex Base Colony. 25 Rt
+58	N side old dirt Reservoir wall		4.6	452.6	
+60			2.6	454.6	
+66			2.6	454.6	
+74	Inside Edge		5.2	452.0	
99			4.5	452.7	
+10	Inside Edge old Dirt Reservoir wall		4.9	452.3	
+19	Top		1.8	455.4	
+23	Bottom outside Edge		4.1	453.1	
+50			5.0	452.2	
95			5.9	451.3	
+50			6.4	450.8	



		↑ 457.19		
46			7.0	450.2
+50			7.4	449.8
47			7.6	449.6
T.P.	7.27	457.37	7.09	450.10
+50			7.4	450.0
48			6.5	450.9
+50			6.1	451.3
49			5.4	452.0
+50			4.8	452.6
50 +00			4.6	452.8
+50			4.5	452.9
51			4.1	453.3
+50			4.1	453.3
52			3.7	453.7
+50			3.3	454.1
T.P.	5.31	458.76	3 ft. 9.2	453.45
+75	L. pt. 95° 00' 10"		4.6	454.2
53			4.7	454.1

		↑ 458.76			
53+45 11	L. Lt. 45°	00.00	4.7	454.1	Common 20 ft. - Norm. of 53+45 11
Set B.M.	5.15	458.59	5.32	453.44	
54+0			4.5	454.0	
+20 09	85 Rt.		4.7	453.9	
+50			5.1	453.5	
55+0			4.9	453.7	
+03 5	Sidewalk		4.76	453.83	
+50			5.6	453.0	
56			6.1	452.5	
+50			6.2	452.4	
57			7.1	451.5	
+17 7	Con. Driveway		7.20	451.4	
+50			7.6	451.0	
58			7.4	451.2	
+29	18" Walk		7.40	451.2	
+50			7.7	450.9	
T.P.	5.52	456.66	7.45	451.14	
59			6.0	450.7	

		456.6			
+50			6.1	450.6	
60+00			5.7	451.0	
+17.19	E.C.		5.5	451.2	
Set BM	3.38	457.16	2.88	453.78	Top F Hy 90' Lt E.C.
+50			5.8	451.4	
+61	center of Driveway		5.3	451.9	
+80	center 3' walk		5.19	451.97	
61.			5.3	451.9	
+50			4.9	452.3	
62			5.1	452.1	
+50			5.2	452.0	
+97.50	Top 1 1/2"	Lava Water pipe exposed	5.27	451.89	
63			5.5	451.7	
+50			5.5	451.7	
64			5.5	451.7	
" "	Top 1 1/4"	Lava Water pipe	5.25	451.91	

↑ 457.16

64+00	Top 2" Live water Pipe	5.81	451.35	
+50		4.4	452.8	
65		3.4	453.8	
+50		2.8	454.4	
+53	Top 2" water Service Line	2.90	454.26	
66		2.2	455.0	
T.P.	8.35	463.30	2.21	454.95
+50			7.8	455.5
67			6.7	456.6
+50			6.7	456.6
68			6.2	457.1
+50			5.8	457.5
69			4.9	458.4
+50			4.8	458.5
70			4.7	458.6
+03.60			4.7	458.6
+50			4.7	458.6
Set 8M	5.01	463.66	4.65	458.65

Spike in PP# 76849
50 ~~+~~
70+03.60

		463.66			
71+00			5.0	458.7	
71+14 49	L Lt 9°		5.0	458.7	
+50			5.0	458.7	
72			5.1	458.6	
+15 03	L Lt		4.9	458.8	
+50			4.8	458.9	
73			4.7	459.0	
+07 33	L Rt		4.6	459.1	
+50			4.2	459.5	
74+01 05	Rt BC		3.5	460.2	
+50			3.1	460.6	
Set BM	4.59	467.92	0.33	463.33	Top E H SE 4+1 [illegible]
74+06 11			6.7	461.2	
75			6.7	461.2	
+50			6.6	461.3	
76			6.2	461.7	
+50			5.8	462.1	
77			5.4	462.5	

		↑ 467.92		
+38	08	BC	5.2	462.7
+50			5.4	462.5
78			5.1	462.8
+10	04	EC	5.2	462.7
+50			5.4	462.5
79			4.7	463.2
+50			5.0	462.9
+79	83	BC	4.7	463.2
86			4.2	463.7
+50			3.8	464.1
+68	5	Con Walk	3.65	464.27
+88	27	EC	3.7	464.2
81		in driveway	3.8	464.1
TP		5.79	469.53	4.18	463.74
+48	60	BC on Hub	5.27	464.26
82			4.9	464.6
+18	51	EC	4.8	464.7
+50			4.7	464.8
+82	8	2 Walk To Fwd pond	4.73	464.8

		469.53		
83+06	EI BC		4.8	464.7
+50			5.1	464.4
+66 89	EC on H.H.		4.91	464.62
84			4.9	464.6
+50			5.0	464.5
+63 70	L. Lt		4.9	464.6
85+10	Edge coldlay Calocetin		4.52	465.01
85 +45	N Line El Cajon Macadam paving		4.49	465.04
+55	N Gutter Line El Cajon		4.82	464.71
+ ?	& E/ Cajon approx		4.12	465.41
86			4.37	465.16
86+11 20	S. Gutter Line		4.92	464.61
" "	Top curb		4.30	465.23
+13 60	L. Rt		4.7	464.8 use 465.38 EE
Check BM	4.44	469.82 EE 47010	4.15	465.38 NW BP Calocetin & El Cajon
				465.66 ← Record
				0.28 Diff Corrected to city BM
86+50			4.8	465.0
87			5.0	464.8

Revised sta's. with Eqns. in line

N. curb line
& El Cajon Ave 465.4

85+74 = 465.2
86+01 = 465.2
86+16 3 = 465.2
86+28 = 464.6 Curb line Gutter
86+29 92 = 465.2 Top curb
+16.32 Eq. 464.8
86+13 60
86+50

T
~~470.10~~
469.82 EE

87+50			4.7	465.1
88			4.7	465.1
+50			4.0	465.8
89			4.2	465.6
+50			4.3	465.5
90			4.4	465.4
T.P.	484	470.36 EE. ~~470.64~~	4.30	465.52 EE ~~465.80~~
+50			5.2	465.2
91			5.1	465.3
+50			5.3	465.1
92			5.1	465.3
+41			4.9	465.5
+50			3.9	466.5
+60			2.8	467.6
+79			4.8	465.6
+90			4.9	465.5
93			3.4	467.0
+10			2.6	467.8

T
~~470.64~~
470.36 EE

93+32			5.4	465.0
+50			5.6	464.8
+67			5.5	464.9
+89			3.8	466.6
94			4.8	465.6
+10			5.7	464.7
+50			5.6	464.8
+66 70	L.Rt		4.9	465.5
+72			4.0	466.4
+90			5.5	464.9
95			5.5	464.9
+50			4.3	466.1
96			4.5	465.9
	541	471.54 EE ~~471.82~~	4.23	466.13 EE ~~466.41~~
+50			5.0	466.5
97			5.1	466.4
+19			5.1	466.4
+20	N Edge Graded Road		5.7	465.8

T

~~471.82~~
471.54 EE.

9+36 $\frac{08}{}$	L Rt on Hub		5.37	466.17
+50			5.3	466.2
98			4.8	466.7
+50			4.9	466.6
99			5.2	466.3
+50			5.1	466.4
100			5.4	466.1
+50			5.8	465.7
101			6.4	465.1
+18	Top 2" Water Main		7.18	464.36
+50			6.8	464.7
+87 $\frac{89}{}$	Int Curve BC		7.0	464.5
102			7.2	464.3
+50			7.2	464.3
103			7.6	463.9
+29 $\frac{95}{}$	EC		7.84	463.70
Set BM	2.50	~~466.59~~ 466.31 EE	7.73	~~464.09~~ 463.81 EE IV Prop EC. on 2x2 Hub. 3.5 IV
+50			2.4	463.9

		~~466.59~~ 466.31 EE		
104			2.8	463.5
+64	45 L L+		3.8	462.5
105			3.8	462.5
+50			4.8	461.5
106			5.6	460.7
+50			6.4	459.9
107			7.9	458.4
+50			9.1	457.2
108			11.0	455.3
T.P.	1.71	456.54 EE ~~456.82~~	11 48	454.83 EE ~~455.11~~
+50			3.8	452.7
109			6.8	449.7
+51	4 L L+		10 64	445.90
110			10.8	445.7
+50			12.5	444.0
T.P.	3.19	446.91 EE ~~447.19~~	12 82	443.72 EE. ~~444.00~~
111			4.6	442.3
+50			7.4	439.5

		~~447.19~~ 446.91 EE.		
112			11.9	435.0
+6.	Bottom Ravine		12.2	434.7
+16			11.7	435.2
+50			9.5	437.4
113			5.5	441.4
+29 9/10	L Rt.		4.41	442.50
+57			2.2	444.7
114			2.6	444.3
+09 9/10	L. Lt.		2.2	444.7
		452.43 EE.		440.63 EE. 2"x2" Hub By Gilbert Rockland Gilbert Tract
Set BM	11.80	~~452.71~~	6.28	~~440.91~~
+20			6.4	446.0
+50			5.3	447.1
+78			2.0	450.4
+88			1.6	450.8
115			1.8	450.6
		463.79 EE.		451.82 EE.
T.P.	11.97	~~464.07~~	0.61	~~452.10~~
+50			9.8	454.0
116			7.1	456.7

		~~964.07~~ 463.79 EE.		
+50			4.3	459.5
+78			3.9	459.9
117+00			1.8	462.0
+25			2.4	461.4
T.P.	3.89	467.58 EE. ~~467.86~~	0.10	463.69 EE ~~463.97~~
+50			3.7	463.9
+69			3.2	464.4
+86			5.3	462.3
118			5.3	462.3
+25			5.8	461.8
+50			7.0	460.6

		~~467.86~~ 467.58 EE		
+71			8—	459.6
119			9.0	458.6
+24			10.0	457.6
+50			12.6	455.0
Set BM	0.78	457.09 EE ~~457.37~~	11.27	456.31 EE ~~456.59~~ 2½"x2" Hub 20' N 12+00
+72			3.9	453.2
1:20			5.0	452.1
+50			7.5	449.6
+70			9.8	447.3
121			11.8	445.3
T.P.	0.20	446.20 EE ~~446.48~~	11.09	446.00 EE ~~446.28~~
+50			5.7	440.5

		~~446.49~~ 446.20 EE		
122			11.5	434.7
+50			12.4	433.8
123			9.9	436.3
+50			7.0	439.2
124			5.6	440.6
T.P.	9.13	448.08 EE ~~448.36~~	7.25	438.95 EE ~~439.23~~
+50			5.9	442.2
+87			5.9	442.2
125			5.6	442.5
+50			4.1	444.0

		~~448.36~~ 448.08 EE		
126			5.7	442.4
136			6.5	441.6
150	8.01 on spike		8.15	439.93
127			12.7	435.4
TP.	5.95	441.49 EE. ~~441.77~~	12.04	436.04 EE ~~436.32~~
127+15 27 Lft			7.41	434.08
Set BM	1.65	438.91 EE. ~~439.19~~	4.20	437.25 EE ½" pipe ~~437.53~~ 20' Rt 126+80
137			4.5	434.4
150			4.9	434.0
128			10.7	428.2
TP	0.68	426.66 EE. ~~426.94~~	12.93	425.98 EE. ~~426.26~~
150			3.9	422.8
129			11.1	415.6

		~~426.84~~ 426.66 EE		
T.P.	1.09	415.21 EE ~~415.49~~	12.54	414.12 EE ~~414.40~~
128			5.0	410.2
150			13.3	401.9
T.P.	38 ~~0.88~~	403.18 EE ~~403.46~~	12.41	402.80 EE ~~403.08~~
129+80			10.5	392.7
T.P.	0.86	392.02 EE ~~392.30~~	12.02	391.16 EE ~~391.44~~
129+95			7.8	384.2
130			7.8	384.2
103			8.0	384.0
113			13.0	379.0
133	Bottom Drain		20.4	371.6
150	"	"	21.0	371.0
170			15.8	376.2
131			3.0	389.0
T.P.	12.84	404.43 EE ~~404.71~~	0.43	391.59 EE ~~391.87~~
125			5.3	399.1

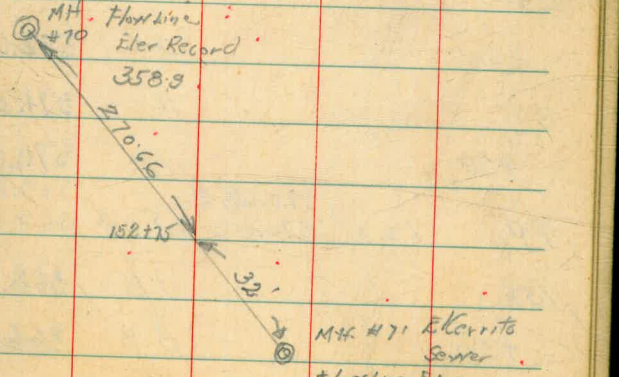
		404.43 EE. ~~404.71~~		
		417.19 EE		404.25 EE
TP.	12.94	~~417.47~~	0.18	~~404.53~~
131+50			5.9	411.3
		429.63 EE. 91		416.89 EE
TP.	12.74	~~429.88~~	0.30	~~417.17~~
132			3.5	420.1
		437.55 EE		425.27 EE
T.P.	12.28	~~437.83~~	4.36	~~425.55~~
+50			7.4	430.2
+66			6.0	431.6
		449.62 EE.		437.55 EE
TP.	12.07	~~449.90~~	0.00	~~437.83~~
133			10.1	439.5
+50			4.4	445.2
+65			1.2	448.4
		461.35 EE.		448.99 EE
TP.	12.36	~~461.63~~	0.63	~~449.27~~
134			8.5	452.9
+50			2.9	458.5
		472.93 EE		460.65 EE.
T.P.	12.28	~~473.21~~	0.70	~~460.93~~

		~~473.27~~ 472.93 E.		
135			9.6	463.3
T.P.	8.27	481.02 E. ~~481.30~~	0.18	472.75 E. ~~473.03~~
+50			10.3	470.7
136			7.6	473.4
+50			6.2	474.8
137			5.9	475.6
+50			5.0	476.0
138			5.3	475.7
+50			6.1	474.9
139			7.0	474.0
+50			7.3	473.7
+85			6.2	474.8
140			7.2	473.8
+90			6.9	474.1
+55 & 2			7.6	473.4
Set BM	0.88	474.68 E. ~~474.96~~	7.22	473.80 E. ~~474.08~~ 3/4" Pipe 60 ± N 140+60
145			2.1	472.6

		~~474.96~~ 474.68 E.		
+50			3.0	471.7
142			4.8	469.9
+50			7.0	467.7
+69			7.4	467.3
143	P.O.T. on Sub		10.68	464.0
		462.54 E.		461.60 E.
T.P.	0.94	~~462.82~~	13.08	~~461.88~~
+50			3.7	458.8
144			11.5	451.0
		451.10 E.		450.06 E.
T.P.	1.04	~~451.38~~	12.48	~~450.34~~
+43			5.4	445.7
+50			6.5	444.6
+61			7.3	443.8
145			11.4	439.7
		440.07 E.		438.83 E.
T.P.	1.24	~~440.35~~	12.27	~~439.11~~
+35			2.7	437.4
+50			4.7	435.4
+65			4.7	435.4
146			7.8	432.3

			440.07 E	
+15			8.1	432.0
+50			11.0	429.1
+70			12.5	427.6
T.P.	2.44	429.44 E. ~~429.72~~	13.07	427.00 E. ~~427.28~~
+80			9.5	424.9
147			6.5	422.8
+04 59 L.			6.9	422.5
Set BM	1.50	421.71 E. ~~421.99~~	9.23	420.21 E. ~~420.49~~ ½" Pipe SW Corner Ocean View Gardens
+25			1.7	420.0
+50			3.7	418.0
148			7.4	414.3
+50			10.6	411.1
T.P.	0.71	410.20 E. ~~410.48~~	12.22	409.49 E. ~~409.77~~
~~149~~			2.9	407.3
+50			6.1	404.1
+70			6.5	403.7
150			10.3	399.9
+10				

		~~410.48~~ 410.20 E.		
+30			11.6	399.6
+50			13.2	397.0
T.P.	1.86	398.99 E. ~~399.27~~	13.07	397.13 E. ~~397.41~~
+75			3.8	395.2
151			5.8	393.2
+25			7.5	391.5
T.P.	0.19	386.24 E. ~~386.52~~	12.94	386.05 E. ~~386.33~~
+50			1.2	385.0
+75			5.7	380.5
+30			8.8	377.4
152			11.2	375.0
+20			13.5	372.7
+37			13.6	372.6
+50			14.0	372.2
+75	int E/Cerrito Sewer		14.8	371.4
Set BM	8.13	382.43 E. ~~382.71~~	11.94	374.30 E. ~~374.58~~ Rim Sewer M.H. - chiseled cross 32' Rt.
Flow M.H #71			16.47	365.96
" " " To West #70			23.66	358.77



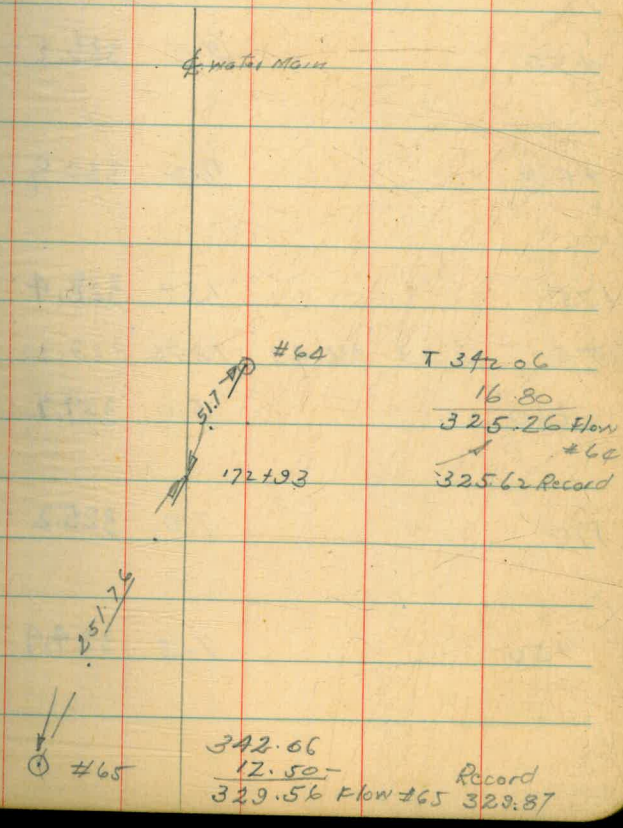
1		382.43 E.		
153			12.8	369.6
+19				
+30			8.7	373.7
+60 65	L.H.		7.18	375.25
154			6.2	376.2
+9	Top Bank		6.2	376.2
+14	Bottom wash		8.9	373.5
+21	W. Top Bank		5.9	376.5
+50			4.8	377.6
155	P.O.T.		4.2	378.2
+50			5.1	377.3
156			7.2	375.2
+50			9.8	372.6
157			11.2	371.2
+50			11.8	370.6
T.P.	129	370.68 E. 370.96	13.04	369.39 E. 369.67
158			1.8	368.9
+50			3.8	366.9

		π		
		~~370.96~~ 370.68 E.		
159			4.6	366.1
+27			4.9	365.8
+50			4.3	366.4
+70			4.2	366.5
160			5.3	365.4
+15			6.5	364.2
+50			8.9	361.8
+80			10.3	360.4
161			12.3	358.4
		359.35 E.		358.79 E.
T.P.	0.56	~~359.63~~	11.89	~~359.07~~
+50	in town water course		5.3	354.1
162	" " " "		6.0	353.4
+50			6.2	353.2
163			5.1	354.3
+50			4.5	354.9
164			3.9	355.5
		364.05 E.		355.57 E.
T.P.	8.48	~~364.33~~	3.78	~~355.85~~
+50			6.8	357.3

~~364.33~~
364.05 EE

165 L.	Lt		43	359.8
+50			4.1	360.0
+70	Top Cut Bank 56'		5.2	358.9
+79	Bottom " "		13.1	351.0 VE 351.67 EE.
				351.70 EE.
Check BM	2.72	~~354.39~~	12.35	~~351.98~~ * CP Tack U.M.d. Trojan record
				351.67
				0.03 EE → 0.31 High corrected to above BM.
165+85 20	E Edge 56' 3st pavmt		3.47	350.92
166+06	W " " "		3.22	351.17
equation +17				
165+20 37 Back = 167+20 37 Ahead			3.5	350.9
			2.8	351.6
+50			2.8	351.6
168			2.8	351.6
+50			3.5	350.9
169			5.4	349.0
+50			7.8	346.6
170			9.8	~~344.6~~
+50			11.6	342.8

		T 354.39		
171			12.9	341.5
T.P.	0.89	342.06	12.72	341.67
+50			2.0	340.1
+91.11	L.F.		3.1	339.0
172			3.5	338.6
+50			6.2	335.9
+58			5.1	337.0
+75			9.7	332.4
+93.19	f El Cerrito Sewer		10.4	331.7
Flow Line MH. 51.7			16.80	325.26
173			11.0	331.1
+50			11.2	330.9



		T 342.06		
+90			11.6	330.5
174			9.1	333.0
+15			11.1	331.0
+50			9.0	333.1
+68			11.2	330.9
175			13.7	328.4
T.P.	2.93	332.23	12.76	329.30
+50			5.0	327.2
176			7.0	325.2
+50			7.3	324.9

T.
33223

177			7.2	325.0
+50			6.9	325.3
178			7.4	324.8
+36			8.7	323.5
+44			6.5	325.7
+50			6.7	325.5
179			9.0	323.2
+50			9.3	322.9
+90	Flow culvert 2'Rt		10.03	322.2
180			9.9	322.3
+50			10.1	322.1
181+00			9.0	323.2
Set BM	8.82	332.73	8.33	323.90
	Flowline	Above M.H.	19.85	312.88
		M.H 29.7 N.	17.76	314.97
181+02 5'	L. & Orange		9.32	323.41
+09			8.6	324.1

Chisel X

On Rim M.H.
100' + - Lt 181+02 5'

Rod. 9.85

96'

24.7

Rod. 17.76

MH

MH

T
332.73

(See Revd. Profile F.B. 735, Pg. 49)

181+23			10.4	322.3
+27			11.6	321.1
+50			12.2	320.5
182			10.6	322.1
182			10.3	322.4
+13			9.8	322.9
+50			3.2	329.5
T.P.	12.79	345.46	0.06	332.67
183			7.6	337.9
+50			2.5	343.0
T.P.	11.88	356.95	0.39	345.07

π
356.95

+58	12.7	344.3
+72	9.2	347.8
184	8.7	348.3
+06 45 L	8.55	348.4
+25	8.2	348.7
+30	10.8	346.2
+50	11.2	345.8
+53	11.5	345.5
+59	8.1	348.9
185	7.0	350.0
+10	7.7	349.3
+35	12.3	344.7

		T 356.95		
185+50			11.3	345.7
+77			7.7	349.3
+87			4.8	352.2
186			5.0	352.0
+10			3.5	353.5
+50			2.5	354.5
T.P.	11.82	368.36	0.41	356.54
187			9.8	358.6
/				
+36 50	E 7 Line	At Hedena	6.4	362.0
+42			5.7	362.7
+50			6.0	362.4
+79			5.3	363.1

See Revd Profile F.B. 735, Pg. 52

O.K.

		↑ 36836		
+83			49	363.5
+91			1.2	367.2
TP	10.38	378.07	0.67	367.69
188			9.8	368.3
+16			8.8	369.3
+50			8.4	369.7
189			8.9	369.2
+19 50			8.45	369.62 EE. Use 376.17
Check City BM	1.41	377.58	1.95	376.12
				376.17 Record
				0.05 Diff corrected to Record
+93	Lin 2" water main		10.0	367.6
11	9.5 ft exposed 2" main		10.8	366.8
+50			11.8	365.8
TP	0.61	365.33	12.86	364.72
190			9.0	356.3
TP	0.24	352.72	12.85	352.48

NW
Hydrant 50 ft + Trojan

		352.72		
+50			3.2	349.5
+75			6.2	346.5
191			9.7	343.0
T.P.	0.33	340.34	12.71	340.01
+50			3.2	337.1
192			9.1	331.2
T.P.	0.26	329.69	10.91	329.43
+50			2.6	327.1
+65			4.7	325.0
+93			7.0	322.7
193			8.2	321.5
+09			9.9	319.8

		329.69			
+50			11.2	318.5	
194			12.2	317.5	
+50			12.2	317.5	
TP	4.56	321.16	13.09	316.60	
195			6.4	314.8	
+24			4.5	316.7	
+37.6	N Side Con Gutter		5.00	316.16	
+90.6	cb bmic		5.25	315.91	
+94.6	S Side Gutter		5.01	316.15	
	& Orange		5.1	316.1	
+83 19	L. Rt		5.86	315.36	
" "	3'3Lt Top Con Gutter		5.88	315.28	
196			5.2	316.0	
+50			3.5	317.7	
197			1.6	319.6	
Check BM	8.79	329.65	0.30	320.86	SEBP 50' Orange

T
32965.

197+23	End Concrete Gutter 3.32+ &		9.51	320.14
+30 20	L Lt 5 1/2 Lines 50 ft		9.3	320.4
+50			8.7	321.0
198			7.9	321.8
+30 20	L Rt		7.3	322.4
+50			6.8	322.9
199			5.8	323.9
+50			4.9	324.8
200			4.0	325.7
+50			3.1	326.6
+32	45' Lt Top 48" Culvert		15.0	314.7
201			2.2	327.5
+50			1.8	327.9
TP	6.20	335.25	0.60	329.05
202			7.0	328.3
+50			6.2	329.1
203			5.4	329.9
+50			4.5	330.8

		T 335.25			
+ 83 12	E Line 49th ± approach		3.55	331.70	
Check BM	11.65	394.60	2.30	332.95	SW BP 49th ± Orange
204	on con		12.65	331.95	
+ 13	℄ 49th		12.49	332.11	
+ 42 2	W Edge Paving A 49th		11.89	332.71	
+ 50			11.7	332.9	
205			8.0	336.6	
+ 50			4.2	340.4	
+ 91	Edge of		1.3	343.3	
T.P.	+ 7.01	350.53	1.08	343.52	
206			6.8	343.7	
+ 50			5.5	345.0	
207			5.0	345.5	
Check City BM	1.67	350.09	2.11	348.42	SE Church Step Estrella & Fraser
+ 50			4.3	345.8	Orange EE
+ 73 4	End Cold Lay Paving approx. W Line Estrella		4.6	345.5	
208			5.0	345.1	
+ 50			5.4	344.7	

		350.09		
209			6.0	344.1
+09.5	1st Sanitary Server	Rodon F.L. M.H. 61' North	11.03	339.06
+50			6.6	343.5
210			7.1	343.0
+43.5	E. Line 48th on conc paving		7.12	342.97
+50			7.1	343.0
+55.5	E. Gutter Line 48th		7.3	342.8
T.P.	8.91	352.00	7.00	343.09
+73.5	℄ 48th		8.9	343.1
+91.5	W. Gutter		9.2	342.8
211			9.1	342.9
+03.5	W. Line 48th		9.1	342.9
+50			8.8	343.2
212			8.3	343.7
+38.7	1st Sanitary Server	Haw Line M.H. 20' N →	16.15	335.85
+50			7.5	344.5
213			6.3	345.7
+50			4.3	347.7
+74±	E. Line Euclid		2.81	349.19
214+04	℄ Euclid		1.4	350.6

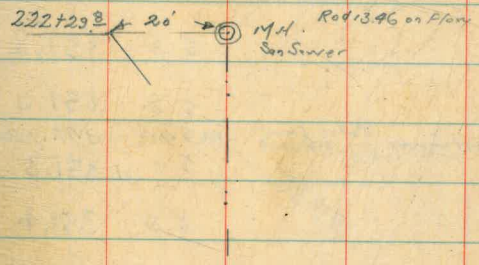
		352.00		
+33	End Edge of Paving Oppx. Rt Line Euclid		1.71	350.29
Check BM	888	359.63	1.25	350.75 NW Cor Edge Euclid
214+50			9.0	350.6
215			7.6	352.0
+50			6.0	353.6
216			5.4	354.2
+50			5.1	354.5
217			5.1	354.5
+03	approx ± Line 47' on Paving		5.00	354.59
+33	"		5.4	354.2
+31	W. Gutter Line 47'		5.9	353.7
+64	W. Line 47' ± approx End Paving		5.86	353.77
218			7.0	352.6
+50			7.7	351.9
+99	Int Sanitary	Sewer Flowline TO South	16.55	343.08
219			8.6	351.0
+50			9.5	350.1
220			10.3	349.3
+34	E Edge paving Manho		10.95	348.68
T.P.	3.64	354.39	8.88	350.75

Lt ℄ Rt 54

Prop Pipe

359.39

+50			5.8	348.6	
+ 64	℄ Menlo		5.6	348.8	
+ 82	W Gutter		5.9	348.5	
+94	W Line Menlo (approx) on paving		5.78	348.61	
221			5.7	348.7	
Check BM	8.60	357.95	5.04	349.35	NW ℄ Manhole Cover
+50			8.5	349.5	
222			7.8	350.2	
+29.8	in + Sanitary Sewer Flow Line MH 20'N.		13.46	344.49	
+50			6.6	351.4	
223			5.5	352.5	
+50			4.7	353.3	
+64	E Line on Paving		4.39	353.56	
+94	℄		4.3	353.7	
224			4.4	353.6	
+24	W Line 46" on Paving		4.71	353.24	
+50			4.3	353.7	
225			4.6	353.4	
+50			4.8	353.2	

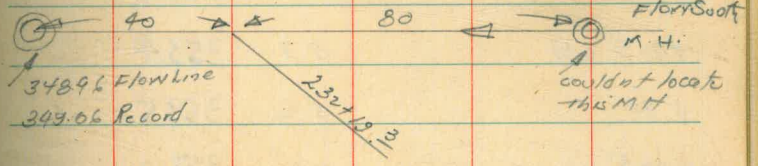


		π 357.95			
226			60	352.0	
+50			65	351.5	
+99	E Line Chamoune	approx	660	351.35	
227			67	351.3	
Check B.M	614	357.32	677	351.18	NW BP Chamoune (Trojan)
+24	℄		62	351.1	Orange
+92	Gutter W Line Chamoune		65	350.8	
+54	W Line Chamoune		671	350.61	
228			63	351.0	
+50			63	351.0	
+89	Int Sewer Pod on Flow Line to South		9.40	347.92	
229			60	351.3	
+50			59	351.4	
230			58	351.5	
+24	5' E Line	45° on paving	571	351.61	
+54	℄	"	56	351.7	
+84.5	W Line	45°	536	351.96	
231			53	352.0	
+50			51	352.2	

Lt ℄ Pipe Line

			357.32		
232			4.8	352.5	
193	Mt Sewer	Flow N.M.H. 90°So.	8.36	348.96	
+50			4.4	352.9	
233			4.0	353.3	
+50			3.7	353.6	
+84 53	E. Line Highland.		3.57	353.75	
+72 53	L.It 30°-01'-00"		3.4	353.9	
Check BM	453	358.66	3.19	354.13	N.W.B.M. Highland (Top of Hydrant)
234			4.5	354.2	Orange Co.
+50			4.6	354.1	
235			4.6	354.1	
+50			4.8	353.9	
236			4.9	353.8	
+50			5.0	353.7	
237			5.0	353.7	
+50			5.1	353.6	
238			5.2	353.5	
+40 95 L.			5.2	353.5	
+50			5.2	353.5	

Proposed Water Main



		358.66			
239			53	353.4	
+90 25 L.H			53	353.4	
+79			52	353.5	
+99 85 not old line			55	353.2	
Check BM	189	357.60	2.95	355.71	NE Top Pole FH x Highland
Check BM			5.39	352.21	NW BP Union + Highland
				352.18	Record
				0.03	

Record
355.71

Reprofile Trojan Ave Pipeline for realignment see P55 FB 735

B.M.	5.50	354.20 ✓ (See Pg. 11)		348.70
30+00			9.9	344.3 ✓
+16.32			10.4	343.8 ✓
+49			10.4	343.8 ✓
+63			6.9	347.3 ✓
31+00			4.1	350.1 ✓
+50			0.3	353.9 ✓
T.P.	10.15	363.05 ✓	1.24	352.94 ✓
32+00			4.5	358.6 ✓
T.P.	11.52	373.76 ✓	0.85	362.24 ✓
32+50			10.1	363.7 ✓
+86			3.1	370.7 ✓
+96			0.2	373.6 ✓
T.P.	12.17	384.82 ✓	1.06	372.20 ✓
33+00			9.9	374.9 ✓
+12			8.0	376.8 ✓
+20			4.2	380.6 ✓
+40			2.3	382.5 ✓

July 22, 1998 Rainey West Baker King Shipman

59

Sta. 31+00 old line

Bottom creek

		384.82		
33+50			1.6	383.2
T.P.	11.93	396.43	0.32	384.50
+86			9.2	385.2
34+00			6.9	389.5
T.P.	6.10	400.61	1.92	394.51
34+30			5.2	395.4
34+50			2.9	397.5
34+75			3.4	397.2
35+00			7.0	393.6
35+18			12.7	387.9
T.P.	0.17	387.87	12.91	387.70
35+50			12.7	375.2
T.P.	0.41	375.33	12.95	374.92
35+75			8.6	366.7
T.P.	0.27	363.07	12.45	362.90
36+00			6.1	357.1
36+30			11.0	352.2
36+50			11.7	351.5

		363.17		
36+70			12.6	350.6
37+00			11.0	352.2
37+12			12.0	351.2
37+16			13.0	350.2
37+21			10.1	353.1
37+40			9.0	354.2
37+50			5.1	358.1
T.P.	12.47	375.08	0.56	362.61
T.P.	12.22	387.14	0.14	374.92
38+00			5.1	382.0
T.P	12.70	399.06	0.78	386.36
38+50			2.5	396.6
T.P.	12.97	411.44	0.59	398.47
39+00			0.5	410.9
T.P	12.86	423.75	0.55	410.89
39+50			3.4	420.4
T.P	11.45	434.89	0.31	423.44
40+00			7.4	427.5

Bottom Ditch
Top "
Bottom of hill

		434.89			
T.P.	11.35	446.62	0.22	434.67	
40+50			11.2	435.4	
41+00			3.2	443.4	
T.P.	10.31	456.74	0.19	446.43	
41+50			8.7	448.0	
41+73	53 BK = 42+90.00 Ah		6.8	449.9	
42+00			5.9	450.8	
ck. to B.M. & Obstacle			3.61	453.13	453.09

GPS
7/23/48

(Cont'd. pg. 16)

2 = 43+00 ?

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	26.2	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.