

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 $30.6 + (20 - 16) \times 2$ or 2 ft. added to 30.6 = 32.6. For slopes of 1 on $1\frac{1}{2}$ see inside of back cover.

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14, 20, 55

60135

G-230

INDEXED

Completely

MICROFILMED

APR 13 1965

This Field Book is manufactured of a High Grade 50% Rag Paper having a WATER RESISTING SURFACE, and is sewed with Bing Special Enamel Waterproof thread.

Made in U. S. A.

Tie outs S.E. Cor. 5th + Broadway 58
58th + Vale Way. Culvert Cr. 80

Drain Vale Way + 58 th Back. Page	
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0+96⁶⁶ 1° 40.42'

+5.3³² 0°-55.40'

$$\left. \begin{array}{l} \text{Reset} \left\{ \begin{array}{l} 0196^{\circ} \text{LT} \\ 219.10 \text{ Ch} \\ \underline{227.00} \\ 221.57 \text{ E} \rightarrow \\ 801 \\ 229.38 \text{ A} \end{array} \right. \end{array} \right.$$

0+17⁴² 0°-17.89' E.C. N.E. Ch. Ret. East only

0+10 = 0°-10.39' E.C. N.W. Ch. Ret. West only

0+00 = N.L. Kentwood

Δ Rate per foot = 10389 Min
0-45 = S.L. Kentwood

11.69 228.24 — 217.55
 B.C. Hub. Kentwood
 + Merlin
 FS. 1659-14

$$\begin{array}{r} 219.10 \\ 10.14 \\ \underline{7.87} \\ C 2.27 \end{array}$$

$$\begin{array}{r} \cancel{215.80} \\ 13.44 \\ \underline{9.1} \\ C 4.67 \end{array}$$

Reset

$$\begin{array}{r} 229.58 \\ 215.50 \\ \underline{19.58} \\ 10.98 \\ C 2.60 \end{array}$$

$$\begin{array}{r} 219.61 \\ 9.63 \\ \underline{7.55} \\ C 2.08 \end{array}$$

$$\begin{array}{r} 216.31 \\ 17.93 \\ \underline{10.33} \\ C 2.60 \end{array}$$

$$\begin{array}{r} 219.56 \\ 15.68 \\ \underline{12.34} \\ C 3.84 \end{array}$$

$$\begin{array}{r} 212.50 \\ 16.74 \\ \underline{12.18} \\ C 4.56 \end{array}$$

212.56

$$\begin{array}{r} 218.00 \\ 16.24 \\ \underline{11.54} \\ C 4.70 \end{array}$$

$$\begin{array}{r} 216.85 \\ 17.39 \\ \underline{13.86} \\ C 4.53 \end{array}$$

216.00

$$\begin{array}{r} 212.55 \\ 16.89 \\ \underline{11.34} \\ C 5.52 \end{array}$$

$$\begin{array}{r} 209.85 \\ 19.39 \\ \underline{10.11} \\ C \end{array}$$

$$\begin{array}{r} 209.90 \\ 17.34 \\ C \end{array}$$

2+40 4°-09.34'

228.86
12.94
11.56
C 1.38

228.91

229.36
12.44
9.80
C 2.64

2+20 3°-48.56'

229.77
14.03
12.85
C 1.18

229.82

228.27
13.33
11.19
C 2.34

12.74 241.80 0.18 229.06

2+00 3°-27.8'

226.57
2.67
2.00
C 0.67

226.62

227.07
2.17
18 T.P.
C 1.99

1+80 3°-07'

A = 229.38 Adjust
225.18
4.10
3.18
C 0.92

225.33

225.78
3.46
1.96
C 1.50

1+60 2°-46.23'

223.90
5.34
4.59
C 0.75

223.95

221.40
4.84
3.82
C 1.52

1+40 P.V.C. 2°-25.45'

223.42
6.82
6.93
C 0.99

222.47

222.92
6.32
4.73
C 1.59

229.24

T.P. = 13.17 253.41 2.65 240.24
 T.P. = 2x2 = 5' East of E. Line Station A+A

5+00 8°-39.45'

4+50 7°-47.51'

4+00 6°-55.56'

3+50 6°-03.62'

3+00 5°-11.67'

T.P. 9.57 242.89 237.32
 El. Stake at 2+60 or 17 = 233.32

2+60 E.V.C 4°-30.12'

~~3.07~~
~~1.44~~
~~1.89~~

Lt
 West

Rt.
 East

3

241.45
 1.44
 4.70
 F 3.36

241.93
 0.96
 0.64
 C 0.32

237.04
 3.85
 7.79
 F 3.89

237.52
 3.37
 3.00
 C 0.37

236.63
 6.26
 9.09
 F 2.81

237.11
 5.78
 4.29
 C 1.49

234.22
 8.67
 9.77
 F 1.10

234.70
 8.19
 5.94
 C 2.25

231.81
 11.08
 9.33
 C 1.75

232.89
 10.60
 7.56
 C 3.04

229.86
 11.94
 10.04
 C 1.90

229.91

230.36
 11.44
 8.48
 C 2.96 T.P.

770A - E Brooklyn Def. 12°-11.38'

6483^B on East. 11°-50.13'

E. Hub. Merlin + Brooklyn S.S. 7.29 253.61 253.59

T.P. 9.33 260.90 1.84 251.57

6477 = S.L. Brooklyn on E Merlin

6462³⁷ on East. 11°-28.13'

6462² on west S.L. Brooklyn on west 11°-27.87'

6447^U 11°-12.29'

6400 10°-23.34'

5450 9°-31.40'

253.41

Lt.

17. 4

258.41 T

230.80

27.61

0.70

C 1.91

250.00

0.41 250.45

249.73

3.68

20.2

C 1.26

248.58

4.83

1.84

C 2.99

248.52

4.89

2.49

C 2.40

248.57

249.02

4.29

3.26

C 1.13

246.27

7.14

6.37

C 0.77

246.75

6.66

6.04

C 0.62

243.86

9.55

11.55

F 2.00

244.34

9.09

8.42

C 0.65

Ties - Merlin Dr.
Kenwood & Brooklyn

⊕ Brooklyn + Merlin tied out
on production of long
chord. 2 Hubs 100⁰⁰ + 100⁰⁰ Nly.

⊕ Merlin + Old North line
Kenwood tied into tack
(as shown. FB 1636-61) 42⁷²
sly from Hub.

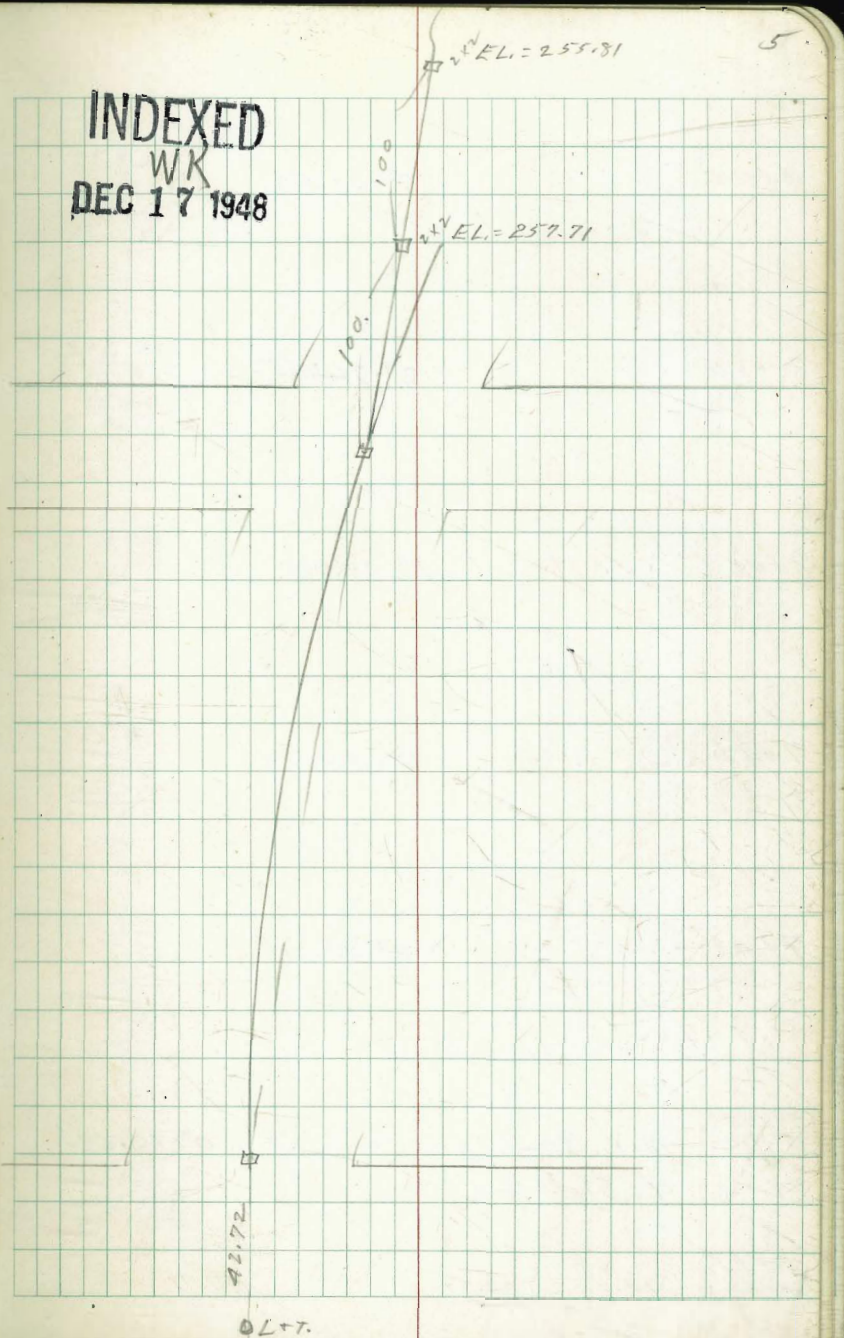
200' RP. 5.07 255.81

100' RP. 3.19 257.71

260.90

X

INDEXED
WK
DEC 17 1948



9+00

3°-23.63

$$\begin{array}{r} 258.67 \\ 9.04 \\ 9.15 \\ \hline C 0.91 \end{array}$$

$$\begin{array}{r} 259.23 \\ 8.48 \\ 3.90 \\ \hline C 4.58 \end{array}$$

8+50

2°-31.70'

$$\begin{array}{r} 256.76 \\ 10.75 \\ 10.24 \\ \hline C 0.71 \end{array}$$

$$\begin{array}{r} 257.33 \\ 10.38 \\ 5.37 \\ \hline C 5.01 \end{array}$$

8+00

West

1°-39.75'

$$\begin{array}{r} 254.84 \\ 12.87 \\ 10.77 \\ \hline C 2.10 \end{array}$$

$$\begin{array}{r} 255.43 \\ 12.28 \\ 8.95 \\ \hline C 3.93 \end{array}$$

7+50

N.L.

0°-47.79'

$$\begin{array}{r} 252.93 \\ 14.78 \\ 13.70 \\ \hline C 1.08 \end{array}$$

$$\begin{array}{r} 253.53 \\ 14.18 \\ 10.98 \\ \hline C 3.30 \end{array}$$
7+43⁵⁵

0°-40.51'

.0373 per d.

$$\begin{array}{r} 253.28 \\ 14.43 \\ 11.21 \\ \hline C 3.22 \end{array}$$

7+1988

0+00 = N.L. Brooklyn to west 0°-16.62'

7+04 = E Brooklyn

$$\begin{array}{r} 256.78 \\ 15.93 \\ 14.43 \\ \hline C 1.50 \end{array}$$

1001 R.P.

page 5

10.00

267.71

— 257.71

T.P. 11.81 286.11 2.65 27A.30
12x25 4°-04.16'

11480 EV.C. 2°-52.35

11460 2°-20.43'

11440 1°-48.51'

11420 1°-16.60

11400 0°-44.68

276.95

272.65
4.30
8.15
F 3.85

270.45
6.50
11.69
F 5.19

269.48
7.47
12.63
F 5.16

268.52
8.43
13.08
F 4.65

267.60
10.35
13.45
F 3.10

266.68
10.27
14.21
F 3.94

8
273.15
3.80
1.80
C 2.00

270.95
6.00
4.40
C 1.60

269.98
6.97
5.65
C 1.32

269.02
7.93
6.36
C 1.57

268.10
8.85
6.95
C 1.90

267.18
7.77
7.26
C 2.51

2x2 R.R. 30' RT - Nail + shiner 40 Mole
or 70' RT. E

13+93.99 E.C. 8°-33.86

280.70
5.91
7.22
F 2.51

281.20
4.91
2.45
C 2.46

13+85 8°-19.50'

280.64
5.87
8.43
F 2.56

280.74
5.37
2.75
C 2.62

13+65 7°-49.58'

279.40
6.71
7.10
F 2.41

279.90
6.21
3.80
C 2.41

13+45 7°-15.67'

278.51
7.60
9.45
F 1.85

279.01
7.10
5.00
C 2.10

13+25 6°-43.75

277.55
8.56
8.58
F 0.02

278.05
8.06
5.89
C 2.18

12+75 50°-23.94

275.10
11.01
11.81
F 0.80

275.60
10.51
8.32
C 2.19

286.11

Field Books 1659-1636

(For Dail-5936 Brooklyn)

13+9

13+

13+9329 BC Hub 4.10
FB 1659-18 = 281.97

13+

14+5953 N. Ely Iona

13+

14+3039 E Iona

13+

12+ 14+01²³ SWly Iona Dr.

282.98
3.13
4.77
F 1.67

283.50
2.61

281.92
4.19
5.61
F 1.42

282.50
2.61

280.86
5.25
7.51
F 2.26

281.50
4.61
1.87
C 3.24

7-3-47 Stake Water Line Woden St.
Cottonwood to Dalbergia

Ely. top Ch. 3+30 10.50 12.04 12.00

Wly. top Ch. 3+30 8.95 13.59 13.50

60' Sly. from Nly. line Dalbergia

3+90 = Intersect. Dalbergia water line.

+60

3+30 = Nly. line Dalbergia

+80

2+30

+80

1+30

+80

0+30 = Sly. line Cottonwood.

0+00 = Cottonwood, 30' Nly. from Sly. line.

Top. Ely. Ch. at Sly.
line Cottonwood. 2.55 19.99 20.00

Top. Wly. Ch. at Sly.
line Cottonwood. 1.99 20.55 20.50

B.R. Wly. Rot.
Cottonwood
+ Woden 189 22.54 ← 20.65

indexed
C.S.R.

11

A' offset from E Water line
Nails set in oil pav. 14' Ely. from
E Woden St. cuts painted on pav.

Pav. Gr. = 11.10

3+30
8.00
14.54
10.53
C 4.01

Pav. Gr. = 12.00

8.45
14.09 3+30
10.50 8.90
C 3.59 13.64

1+80

14.77

9.77

4.03

C 2.74

1+30

14.06

8.48

5.80

C 2.68

Pav. Gr. = 19.75

11 Gr. = 20.81

0+30

15.35

7.19

4.40

C 2.73

0+30

16.65

5.89

3.10

C 2.79

2+80

10.19

12.35

9.62

C 2.73

2+30

11.48

11.06

8.39

C 2.67

C 3.29

22.54

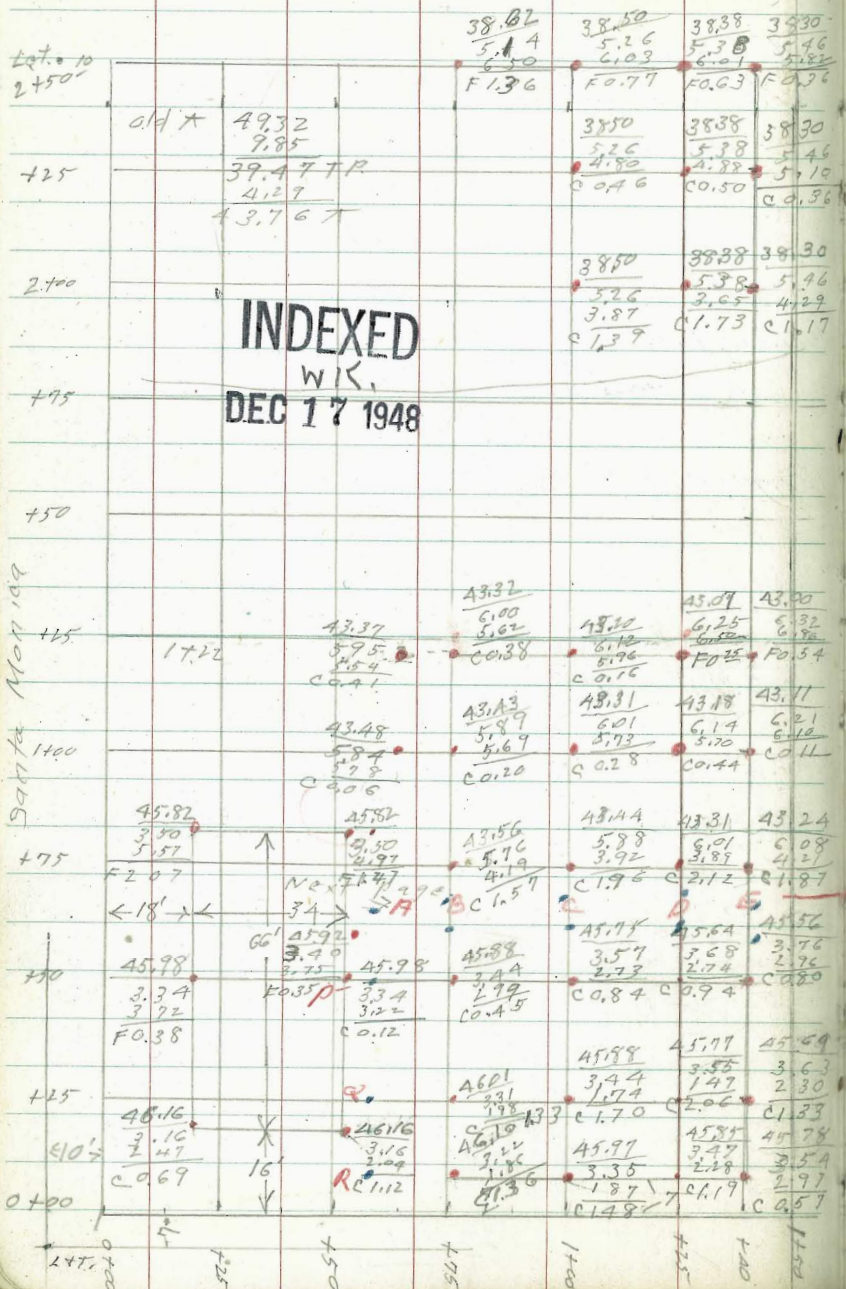
Ocean Beach Play Grounds

Alloy

BIK. 31 - Ocean Beach

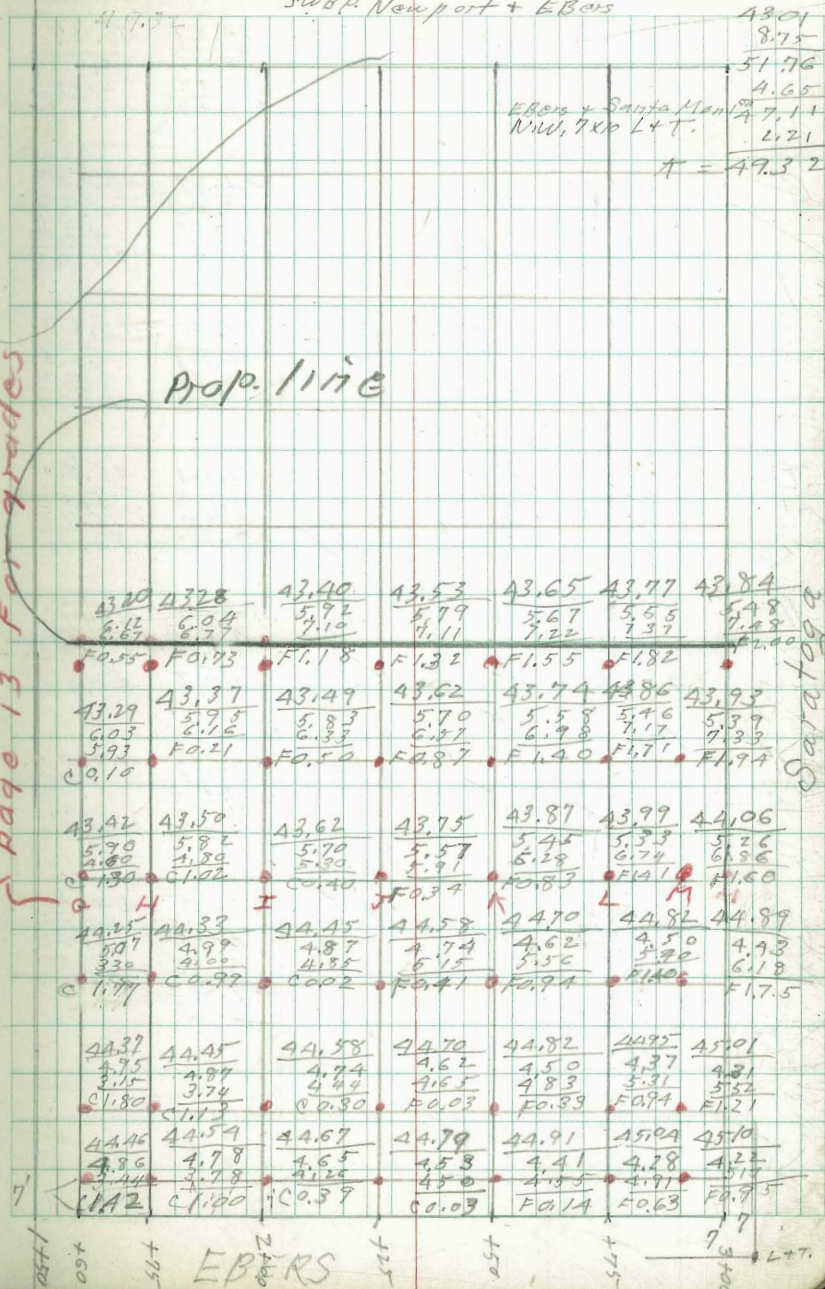
12
10-16-47

SWBR Newport + EBers



INDEXED
WIK.
DEC 17 1948

Page 13 For grades



Prop. line

Santa Monica

EBERS

Santa Monica

147.0

147.0

E+W sta	0+62	0+67	E+W sta	0+58	0+66
	East	West		East	West
	stake	stake		stake	stake
A (Page 12)	43.65	43.65	G	44.21	43.47
	5.67			5.11	5.85
	3.91			3.73	4.17
	C 1.76			C 1.38	C 1.68
B	45.82	43.60	H	44.29	43.55
	3.50	5.92		5.03	5.77
	3.53	3.68		4.10	4.35
	F 0.03	C 2.04		C 0.93	C 1.42
C	45.67	43.48	I	44.41	43.67
	3.63	5.84		4.97	5.65
	3.30	3.60		4.91	5.01
	C 0.33	C 2.24		X	C 0.64
D	45.58	43.35	J	44.54	43.80
	3.74	5.97		4.78	5.50
	3.29	3.50		5.50	5.66
	C 0.45	C 2.47		F 0.72	F 0.16
E	45.50	43.28	K	44.66	43.92
	3.82	6.04		4.66	5.40
	3.53	3.79		5.75	6.03
	C 0.29	C 2.35		F 1.09	F 0.63
P	45.98		L	44.78	44.04
	3.34			4.54	5.28
	3.28			6.12	6.48
	C 0.06			F 1.58	F 1.16
Q	46.11		M	44.85	44.11
	3.21			4.47	5.21
	2.25			6.30	6.50
	C 0.96			F 1.83	F 1.29
R	46.20				
	3.12				
	2.12				
	C 1.00				

Alloy Bk. 31

13

	37.75	2+50	
	6.01		
	3.82		
	C 0.19		
X	43.76	2+25	
	0.54		
	43.22		
	8.21		
	51.43	2+00	
	4.32		
	47.11		
	4.35		
	51.46		
	8.45		
	43.01		
	4.35		
	42.79	1+22	
	6.53		
	6.86		
	F 0.33	1+17	42.99
			6.33
			6.67
			F 0.34
	43.61	1+00	43.61
	5.71		5.71
	6.10		3.93
	F 0.39		F 0.22
	44.20	0+75	44.20
	5.12		5.12
	4.31		4.60
	C 0.91		C 0.52
	44.90	0+67	44.98
	4.42		4.34
	3.79		4.17
	C 0.63		C 0.17
	45.50	0+50	45.50
	3.82		3.82
	2.96		3.80
	C 0.86		C 0.52
	45.80	0+25	45.80
	3.52		3.52
	2.30		3.15
	C 1.22		C 0.37
	45.59	0+07	45.60
	3.73		3.72
	2.97		3.24
	C 0.76		C 0.28

EBERS

Stake out Cb Inlets & Drain
 Across Wabaska Ave So. Side Chatsworth

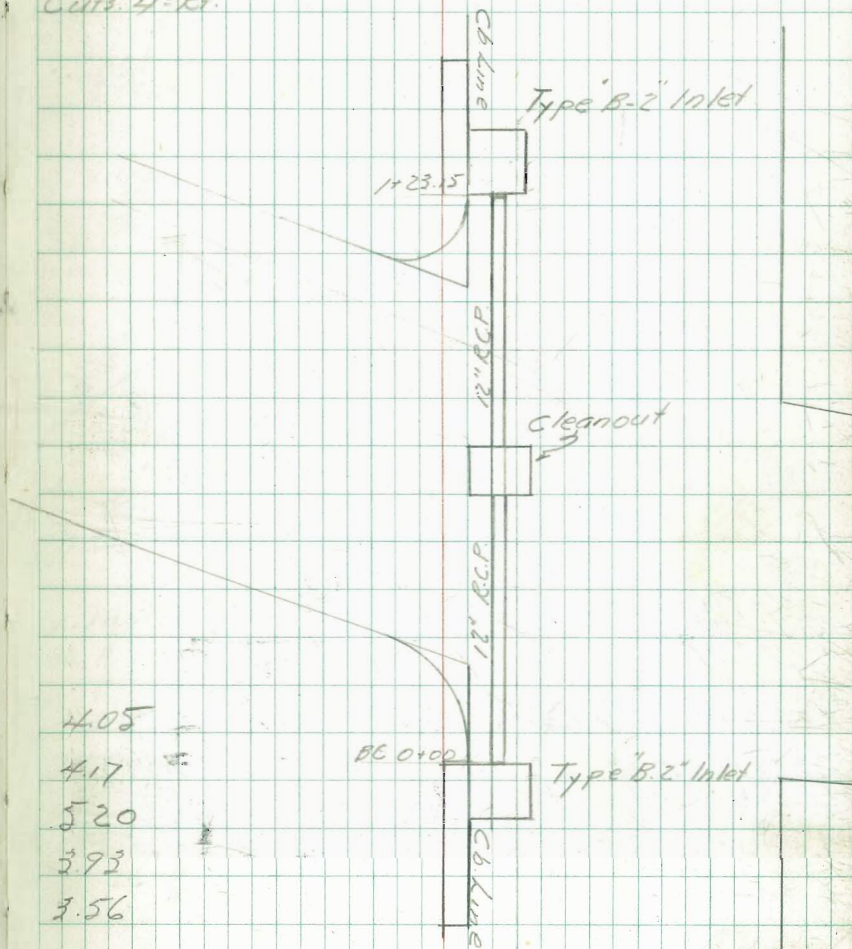
Sta.	+ H1 -	Elev Nails	Elev Grade
------	--------	---------------	---------------

INDEXED
 WIK
DEC 17 1948

1+23.15	End 12" RCP	5.87	76.21	72.16
0+92.52		6.03	76.05	71.88
0+61.90	& Cleanout	6.28	75.80	70.60
0+30.95		6.07	76.01	72.08
0+00	Beg 12" RCP	4.95	77.13	73.57

B.M.	547	82.08	76.61
------	-----	-------	-------

Cuts 4° et.



4.05

4.17

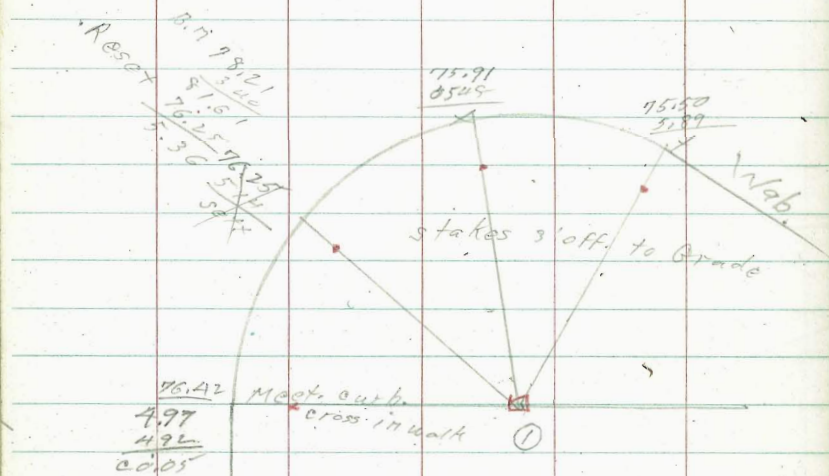
5.20

3.93

3.56

0+00

Wabaska Curb Grades



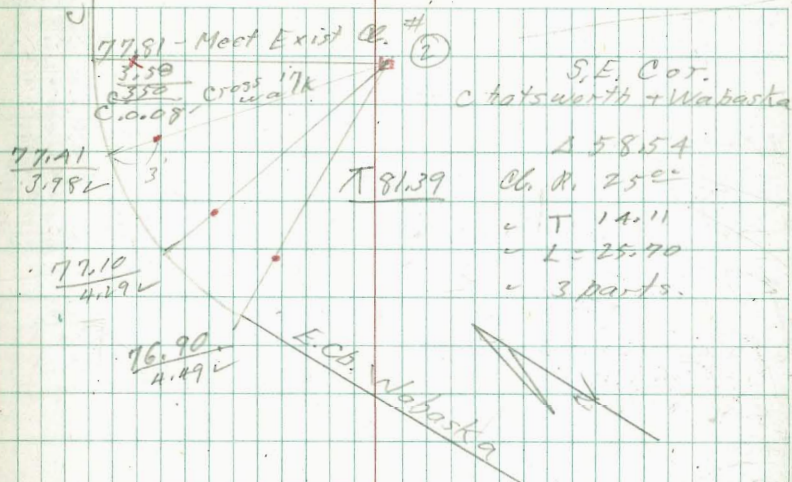
S.E. B.P. 78.11
 3.18
 $81.29 = T$

S.W. Cor. Wabaska +
 Chatworth

Chatworth
 curb line

$\Delta 121^{\circ} 06$
 cb. R = 22
 " T 38.96
 " L 46.50
 3 parts.
 sheet 7005-L.

10-30-97 15

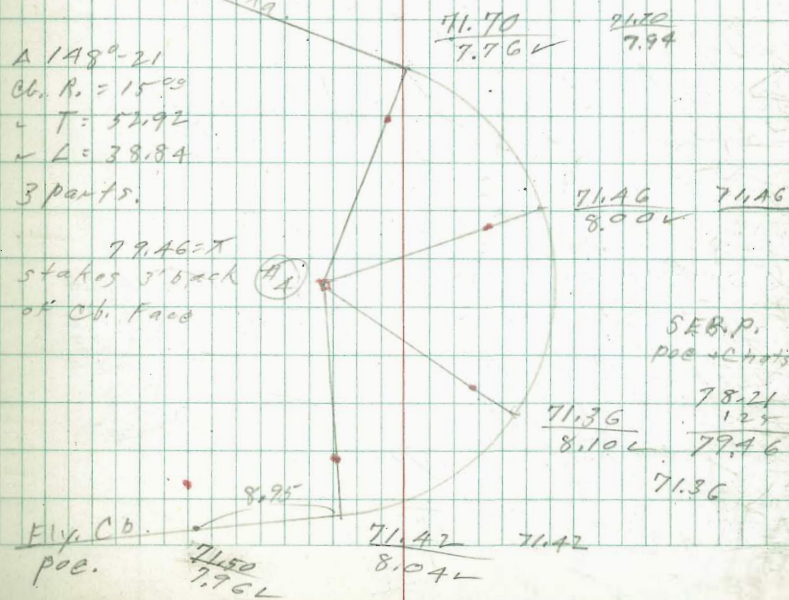


W. Cb. Wabaska

$A 148^{\circ} 21$
 Cb. R. = 15.05
 " T = 52.92
 " L = 38.84
 3 parts.

$79.46 = T$
 stakes 3' back
 of Cb. Face

Fly. Cb.
 p.o.e.



S

N.

INDEXED

WK
DEC 17 1948

1+39	42.09	42.09
	<u>6.57</u>	<u>6.57</u>
	6.77	6.77
	F 0.2	F 0.2

0+99	43.65	43.65
	<u>5.01</u>	<u>5.01</u>
	F 0.4	F 0.2

BIK

0+59	45.22	45.22
	<u>3.44</u>	<u>3.44</u>
	3.0	4.4
	C 0.4	F 1.0

BIK

0+89	45.73	45.73
	<u>2.93</u>	<u>2.93</u>
	2.89	4.13
	C .64	F 1.20

BIK

0+19	45.74	45.75
	<u>2.92</u>	<u>2.91</u>
	2.89	4.09
	.2	F 1.18

BIK V.L. EBERS.

0+00	45.50	45.22
	3.16	3.44

N.W. L.T. Ebers
& Santa Maria

1.55	48.66	47.11
------	-------	-------

BIK

3+79	32.70	32.70
	<u>4.55</u>	<u>4.55</u>
	4.3	4.4
	C 0.2	C 0.1

3+39	34.26	34.26
	<u>2.99</u>	<u>2.99</u>
	2.6	3.2
	C 0.4	C 0.5

7A 118	37.25	12.59	36.07
2+99	35.83	35.83	
	<u>12.83</u>	<u>12.83</u>	
	12.1	11.83	
	C 0.7	C 1.00	Nail

2+59	37.39	37.39
	<u>11.27</u>	<u>11.27</u>
	11.1	10.9
	C 0.2	C 0.4

2+19	38.96	38.96
	<u>9.70</u>	<u>9.70</u>
	working	9.6
	not 50	

1+79	40.52	40.52
	<u>8.14</u>	<u>8.14</u>
	8.2	8.3
	X	F 0.2

Sewer Grades

INDEXED
WK
DEC 17 1948

2+40 = Dead end

Harbor View

EXISTING D.E.

11-24-47

W.O. # 60220

sheet 3397-B

Sommermejer
W Moore
E Sherman(10' tie back)
BM-S.P. 17 Ct. A Bangor + Harbor View

1120 265.91 — 254.71

8.86 274.67 0.10 265.91

N.E. 10' tie back

Lucinda + Bangor

5.21 269.46

269.48

-0.02

M.H. #1

0+00 0+40 0+80 1+20 1+60

245.10 250.52 252.93 255.35 257.77

17.81 15.39 12.98 10.56 8.14

9.71 6.77 4.15 2.07 0.10 = T.P.

C 8.10 C 8.62 C 8.83 C 8.47 C 8.04

* 274.67

2+00 2+40 = D.E.

260.19 262.60

14.48 12.07

7.21 5.99

C 7.27 C 6.08

Restake returns 3/24/48
Wabaska + Capistrano

S.W. L47.
Poc
Capistrano

INDEXED
WK
DEC 17 1948

70.12
6.61
76.73

#3 (page 16)

69.92	68.63	68.48	68.55
7.71	8.10	8.25	8.18
7.71	7.82	6.25	5.18
Meet. curb	00.28	02.00	03.00
	Cross		

N. #5 (page 16)

69.05	69.12	69.46	70.08	70.12
7.68	7.61	7.27	6.65	2.99
4.68	6.01	7.24	Meet. Ch.	
03.00	01.00	00.03		
			93.10	

#7 page 16

73.80	72.46	70.88	70.10	70.12
2.87	4.27	5.85	6.63	6.63
2.27	4.27	4.83	5.13	72.26 =
00.10		01.00	01.50	
				EL. State
				72.69
				69.25
				02.51

#6 - Page 16

69.36	69.30	69.25	69.10	69.15
7.37	7.43	7.48	7.53	7.58
7.67	8.45	8.40	8.57	8.58
0.92	F1.00	F1.00	F1.00	F1.00
69.8 + Elev.				

Clean outs Wabaska + 12-15-47
Capistrano

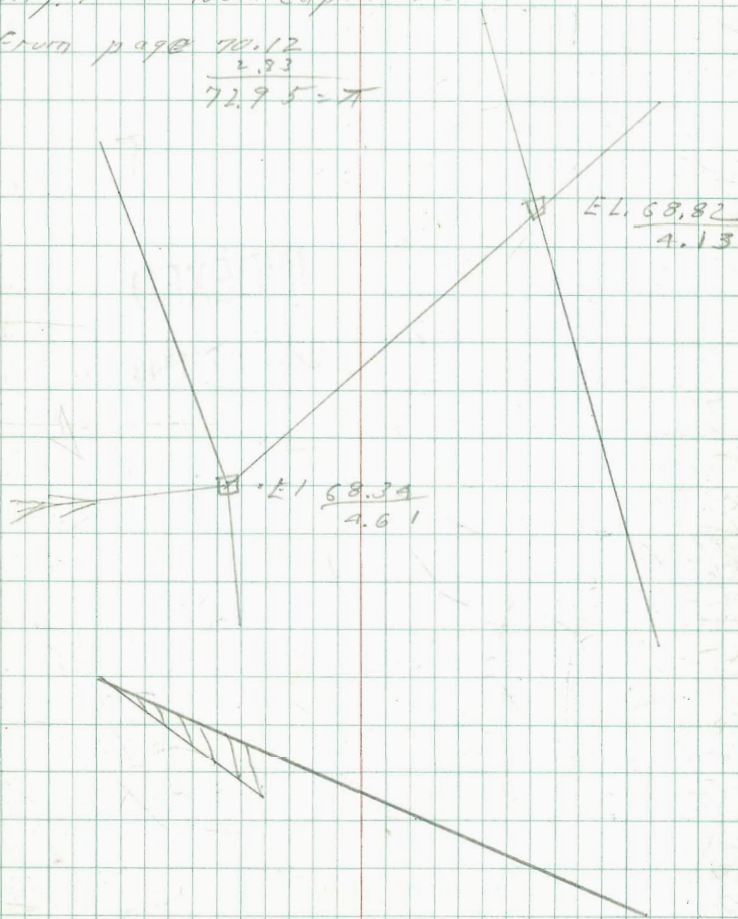
Grades to top of clean out.

Sheet # 7005

Wly. 7' L x 7' Poc + Capistrano.

From page 70.12

2.93
72.95 - 71



Evergreen St. Grades
Water & Sewer Lats.

BM. = spike in S.E. Pole Evergreen & Emerson - Lsheet 669A = 19.94

Sewer

#1	#2	#3	#4	#5	#6	
43.48	43.48	43.48	43.48	43.48	43.48	
36.00	31.60	31.70	26.97	20.87	20.87	
7.48	11.88	11.78	16.61	10.89	10.89	
3.54	8.79	7.73	12.30	6.87	6.87	
C 39.94	C 3.07	C 4.05	C 4.31	C 4.00	C 4.00	
					19.94	
					11.94	
					31.76 X	
					11.07	
					30.67	
					12.79	
					43.48 X	
					3.54	
					39.94	
					11.13	
					51.07 X	
					22.08	
#7	#8	#9	INDEXED WK DEC 17 1948			
22.07	22.09	12.51				
13.97	8.57	2.0				
8.11	13.51	10.31				
2.38	3.78	5.27				
C 5.73	C 4.73	C 5.04				
						30.67
						12.79
						43.48 X
						3.54

for - 900 from Breaks in Grade. Not prop. vis
0.05 Allowed for rise in walk

Water laterals

#1	#2	#3	#4	#5	#6
551.07 X	43.48	43.48	43.48	43.48	43.48
48.62	38.13	38.89	39.22	39.00	30.92
2.43	5.35	4.59	5.26	4.48	12.56
0.05	0.05	0.05	0.05	0.05	0.05
2.40	6.30	4.54	5.21	4.43	12.51
1.00	3.18	5.54	3.21	3.43	11.51
C 1.00	F 1.50	F 1.00	C 2.00	C 1.00	C 1.00
					22.08
					12.51
#6	#7	#8	#9		
31.76 X	-09' 03'	43' 47'	44' 29'		
24.57	18.32	18.42	13.04	13.14	7.46
7.19	3.76	3.66	9.04	8.94	5.05
0.05	0.05	0.05	0.05	0.05	0.05
7.14	3.71	3.61	8.99	8.89	5.00
6.14	5.96				4.7
C 1.00	C 1.00				2.14
					22.08 X

Evergreen & Emerson
S.E. Prop
& 7' Disk

5.68	25.62	7.12	18.50	Set BM
			19.94	S.E. spike Lsheet 6693

Grades 16" Water Main
Evergreen & Emerson

EMERSON

stakes set 4' East of E

25.62

4.36
Paving Grid

19.59 = Pav.

19.65 = Pav

18.36	14.36	14.60	15.65
2.6	11.26	11.02	9.97
15.76 = Top	4.58	5.39	5.06
-1.40	6.68	C 5.63	C 4.97
14.36 = Invert 16"	17.59	19.94	19.65
	2.6	Spike	2.6
	16.00 Top	S.E. Pole	17.05
	1" Pipe		1.40
	14.60 Invert		Invert 5.65

Emerson Grades.

Evergreen

2+75

Rake

2+55 \$ only

Dist. P 23 18.50
~~5.93~~
 X 24.43
 1.52
 22.91
 12.57
 X to P 23 → 35.48

0+25

.022 Sd. Gutt
 .0164 North Gutt
 ← Rake

Locust St. Int. Page

2+75

Rake

.015 South Gutt
 .0162 North Gutt

6.15 B.M. Rosecrans
 Emerson
~~5.67~~
 9.42 14.82 X
~~1.83~~
 5.83 7.99 9.42
 16.25 X 5.89 4.89
 15.88 X 14.71

0+34

0+27

w/ly 91 Emerson
 + Rose cras
 Page 27

8.98 15.13 — 6.15

W. line Rose crans

S Cb.	S Gutter	S 1/4	♀	N 1/4	N Gutter	N22 Cb.
18.00 6.43 0.03	17.50 6.93	17.78 17.45	17.95 17.62	18.03 17.70	18.00 6.43	18.50 5.93
	17.06	17.42 17.09	17.00 17.27	17.63 17.30	17.47	
		Set Brk from raked gutter grade.				
12.50 2.63	12.00 3.88	16.25 12.41 1.78 4.77	16.25 12.06 1.71 4.54	16.25 11.87 11.48 4.77	11.40 2.49	11.90 3.23
10.52 4.61	10.02 5.86	10.19 9.80 9.51	10.06 9.73 4.58	9.83 9.52 4.87	9.42 2.47	9.92 5.21
		π 15.98			π 15.88	
7.12 8.01	6.44	6.47 6.14	6.32 5.99	6.07 5.68	5.52	6.15 8.78
6.95 8.18 3.17	6.34 5.48 5.49			6.15 5.67 5.65	5.41 6.41 6.22	5.96 7.17
cmos	FD.01 X 11.82			ca. 02 X 11.82	FD.01 7.182	

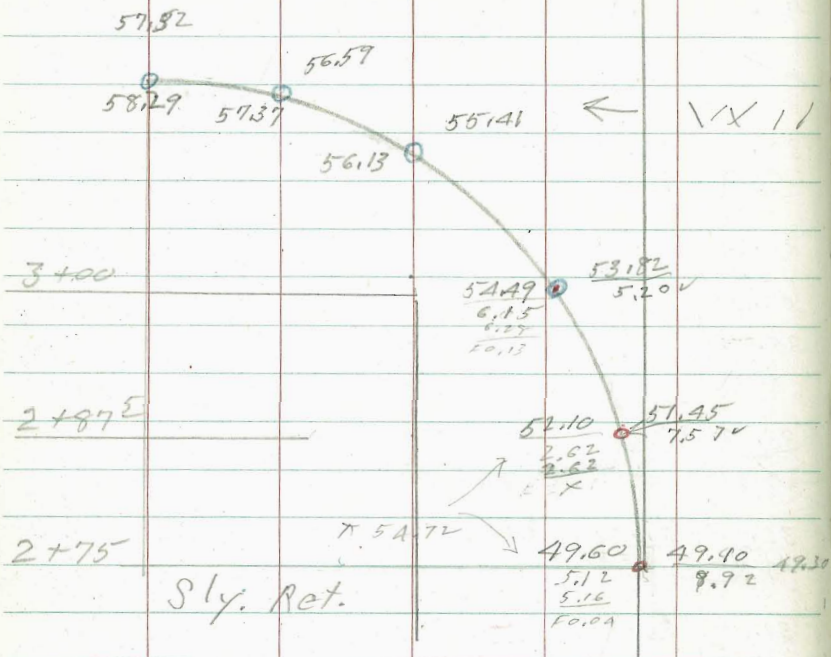
Disk E. 7 Willow
& Emerson

60.64.

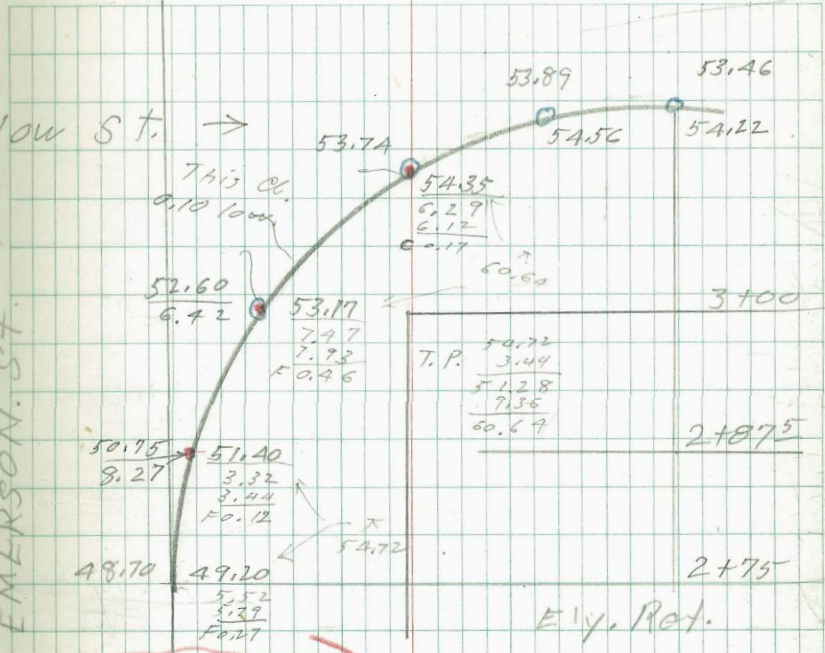
6.61 54.03

EMERSON Street.

24



EMERSON ST



See Page 56
For Curbs Detail

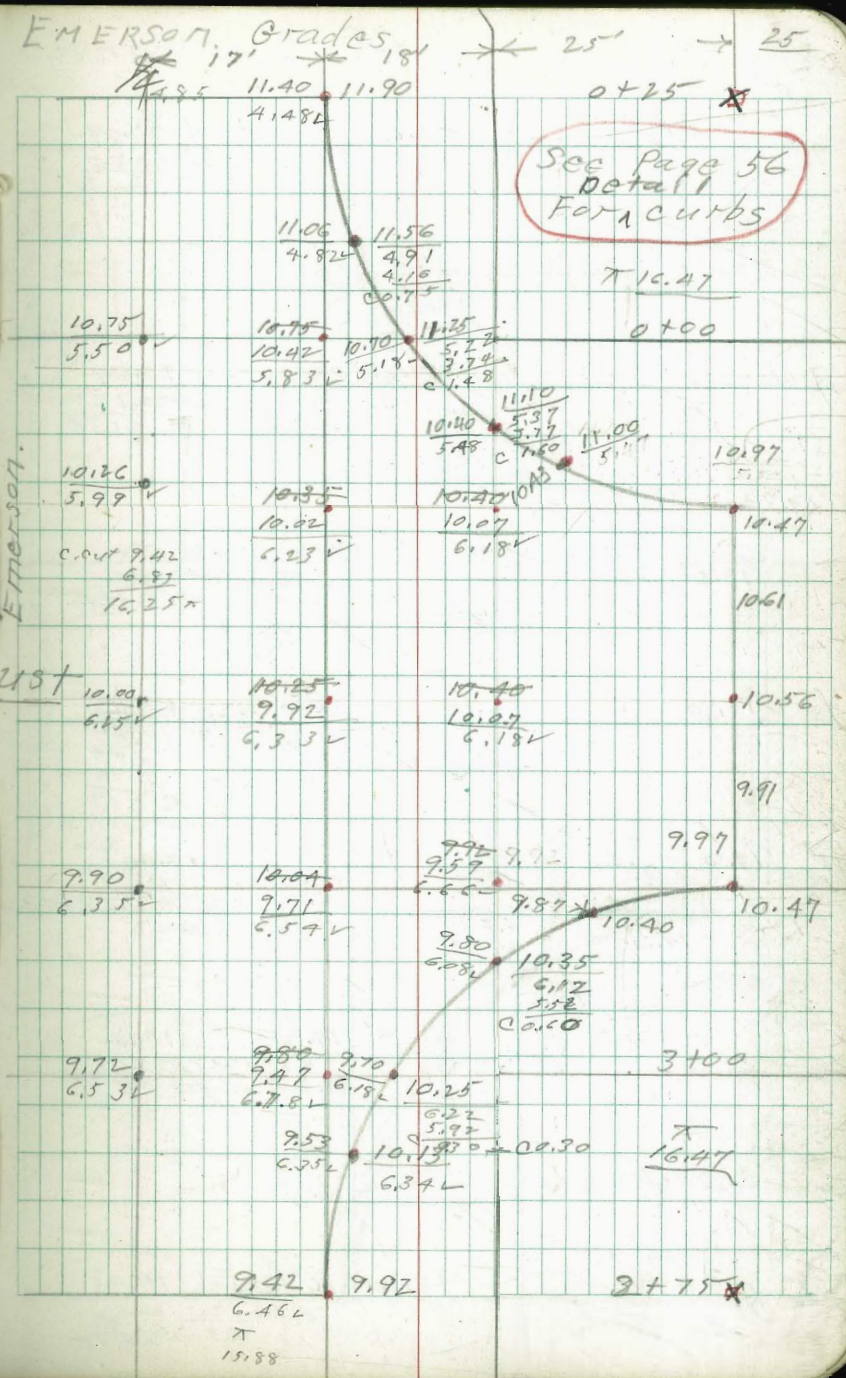
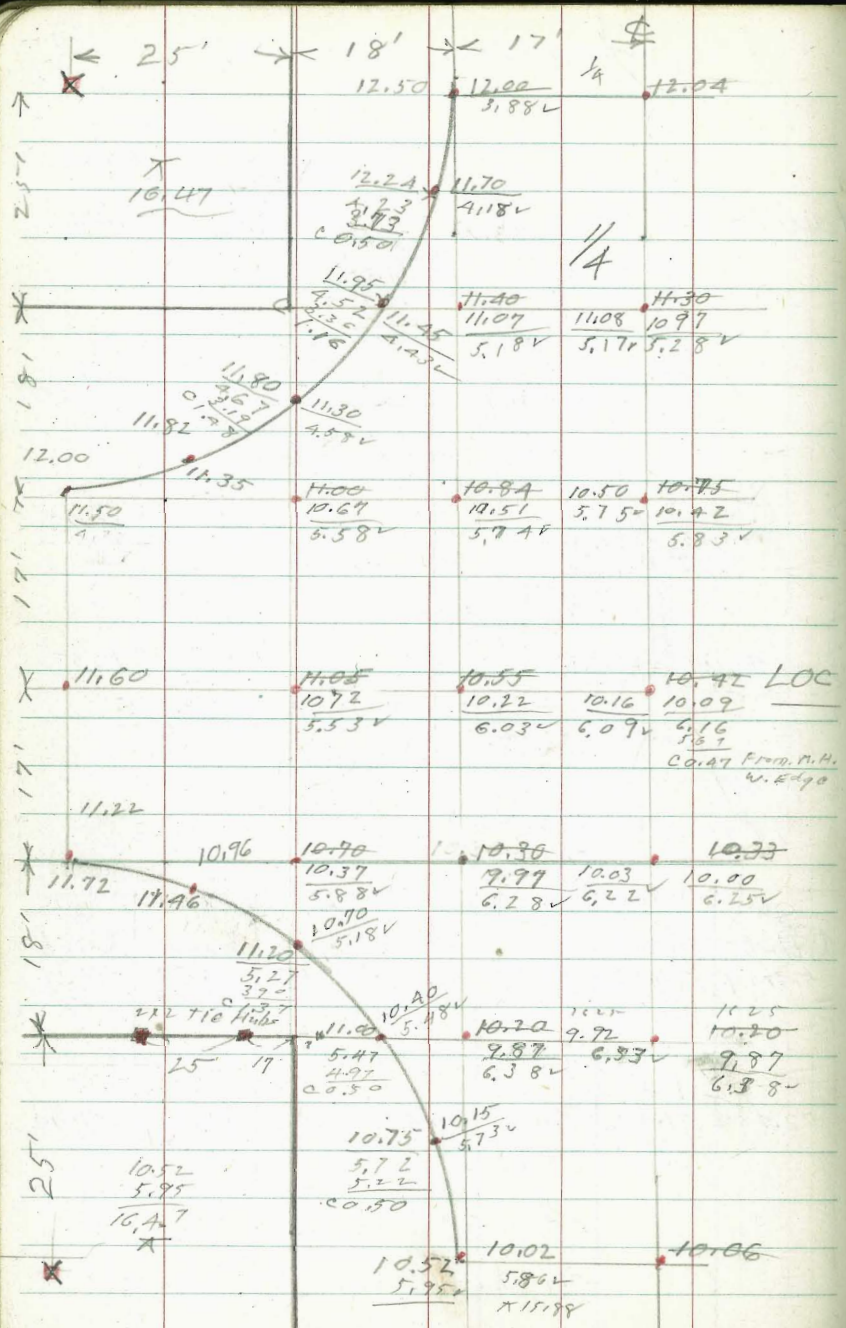
Willow St. (Meet paving & Cl.)

3+00	54.49	53.72	53.58	53.39	53.15	52.86	53.17
		5.30		5.63		6.76	5.85
		5.35					
		-0.05					
2+87.5	52.08	51.00	51.42	51.45	51.32	50.80	51.40
		2.					7.62

S	S		±		N	N
Curb	Gutter				Gutter	Curb
54.49	53.72	53.58	53.39	53.15	52.86	53.17
	5.30		5.63		6.76	5.85
	5.35					
	-0.05					
52.08	51.00	51.42	51.45	51.32	50.80	51.40
	2.					7.62

FROM Evergreen (Cont.)

T
59.02



3-2-48

Emerson St. Rough Grade

	Lt.	Lt. Cl.	Rt.	Rt. Cl.
T.P.	9.57	<u>21.85</u>	0.95	12.28
3+05		11.25		10.40
3+00	Ely. time Locust	11.45 11.00 <u>2.23</u> 0.70 C 1.47	10.45	10.25 2.98 <u>2.37</u> C 0.59
2+90		11.60		
2+80		11.60		10.30
2+75				10.52 <u>2.71</u> 1.03 C 1.68
2+60			10.10	9.92 <u>3.31</u> 2.94 C 0.37
2+20		10.50		
2+10		10.15		
2+00		9.75		
1+90		9.50		
1+60			8.30	
0+34				9.12 <u>6.11</u> 5.85 C 0.26
S-trail of Disk Emerson & Reservoir		7.08	6.15	6.15 <u>6.08</u> 6.44 C 0.64
0+27 Meet. Exist. cl.				B.M. #1
Emerson Evergreen Disk - 71+ E. prop.	2.11	<u>13.23</u>	8.97	11.12
		20.09		18.50

(27)

	Lt.	Lt. Cl.	Rt.	Rt. Cl.
T.P.	11.30	<u>32.35</u>	0.80	21.05
3+05		18.65		19.70
3+00 Ely time Evergreen	18.60	18.40 <u>3.45</u> 2.87 C 0.58	19.75	19.30 <u>2.55</u> 1.31 C 1.24
2+90				19.50
2+75		18.00 <u>3.85</u> 3.00 C 0.85		18.50 <u>3.35</u> 2.25 C 1.10
1+10		15.00		
1+00		14.75		
0+90		14.65		
0+30		13.60		
0+25				12.50 <u>7.35</u> 8.24 C 1.21
0+20		13.30		11.90 <u>9.95</u> 8.23 C 1.72
0+10		12.85		12.10
0+00: why Locust		12.30	11.60	11.25 <u>10.60</u> 9.85 C 1.75
0-05		11.85		11.15
		21.85		

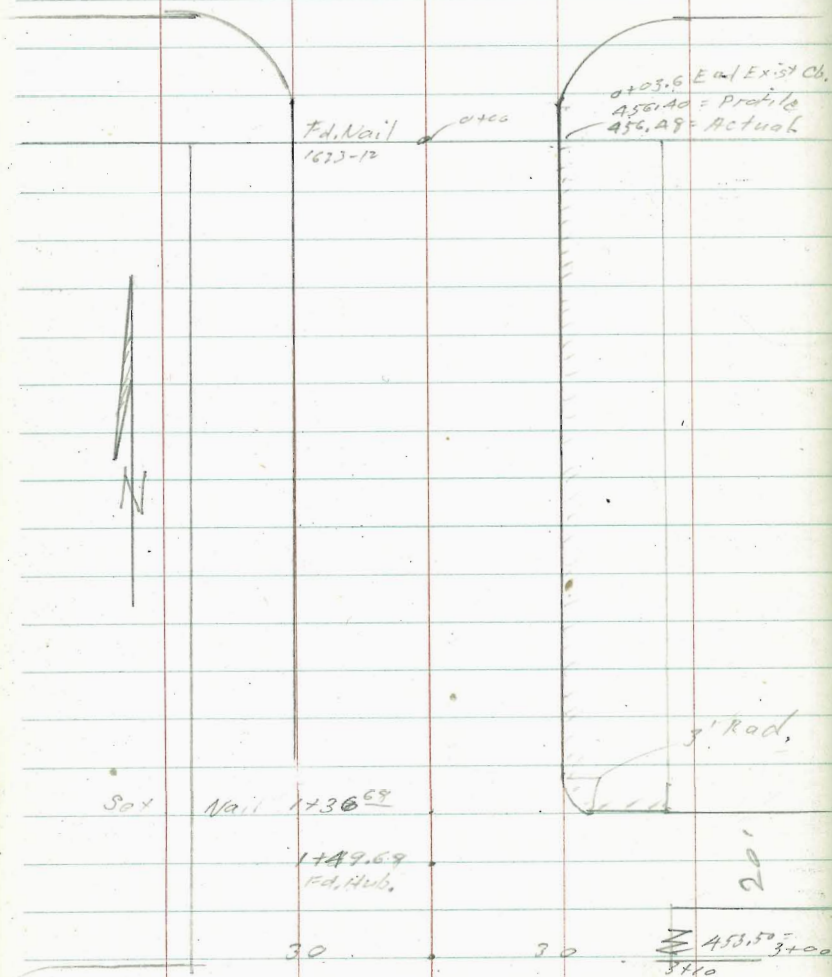
	Emerson St Lt.	Rough Grades Lt. RT	Rt. Ch
2+10	36.90	<u>36.70</u> 2.70 3.72 F 1.02	36.86 <u>35.68</u> 2.72 4.67 C 7.95
2+00	35.20	<u>35.00</u> 4.40 4.20 x	35.18 <u>34.98</u> 4.42 6.36 F 1.94
1+90	33.85	<u>33.50</u> 5.90 5.48 C 0.42	33.92 <u>33.52</u> 5.88 6.40 F 0.52
1+80	32.70	<u>32.20</u> 4.20 6.29 C 7.11	32.45 <u>32.25</u> 7.15 7.48 C 0.67
1+70	31.75	<u>31.10</u> 8.30 9.29 C 1.51	31.36 <u>31.16</u> 8.24 6.95 C 1.28
1+60	31.00	<u>30.18</u> 8.22 8.24 C 1.00	30.60 <u>30.47</u> 9.13 7.42 C 1.70
7+50	30.35	<u>29.47</u> 9.73 8.78 C 1.75	30.00 <u>29.55</u> 9.82 5.88 C 3.94
T.P.	8.78	<u>39.40</u> 1.13	31.22
0+25		<u>22.00</u> 10.35	<u>22.50</u> 9.85
0+20		<u>22.85</u> 7.45 C 2.90	<u>22.70</u> 7.20 C 2.15
0+10		21.70	
0+00		<u>20.50</u> 11.85 10.11 C 1.74	<u>21.30</u> 11.05 9.27 C 1.78
0-05		19.95	21.00
		<u>32.35</u> x	

	Lt.	Lt. Ch	Rt.	Rt. Ch
3+00	54.67	<u>54.49</u> 4.68 4.72 F 0.05	53.35	<u>53.17</u> 6.00 6.25 F 0.25
2+87 ^E	52.80	<u>52.10</u> 7.07 4.02 C 3.00	51.60	<u>51.40</u> 7.67 12.67 F 5.00
T.P.	10.03	59.17	49.14	
2+75	49.80	<u>49.68</u> 0.57 1.01 F 0.16	49.40	<u>49.20</u> 0.99 7.50 F 6.51
		<u>50.19</u> 1		
T.P.				
Pole #3271	13.11	50.19	2.32	37.08
2+20		<u>38.80</u> 1.80 2.75 F 1.98	38.70	<u>38.50</u> 0.90 3.35 F 2.45

Curb. 11 - 69th + El Cajon

Stakes set 3' Back of curb face.

El Cajon



Sox Nail 1736⁶⁹

1749.69
Fd. Hub.

30

30

455.5³⁴⁰⁰
340

3139.33 □ Fd. Hub. 1623-12

129

SW.B.P. El Cajon + 69th 456.75
382
460,27X

INDEXED

WK

DEC 17 1948

0403⁶ 07 4436 6788.72
End Exist Ch. 456.04 455.57
456.48 4.23 ✓ 4.68 ✓
379 ✓

3' Ch. Rad. B.C.
1736.68
455.15
5.12 ✓

Ch. 111043
E.C. on SW. H
0.3 Higher than
1739.68
455.15
5.12 ✓

Ch. 1110410
= End Highy Ch.
0.12 Higher than 1739.68
455.22
5.05 ✓

W.O. 80074

INDEXED
WK
DEC 17 1948

BM. L. 77.
1748-39

62.73
55.51
7.22
8.50
C 1.72

56.70
55.81
0.89
8.44
F 7.55

0+08⁴³

65.05
1.00
66.05
6.50
59.53
3.20

62.73A
11.21

62.73
57.00

56.70
57.30
+0.60
7.90
F 8.50

0+88⁴³

2' Back

51.52
5.18
56.70
12.00
44.66
2.48
47.14
47.77

57.3
4.95
60.88

0+68⁴³

20' Back

46.377
12.28
58.65
2.0
58.73
7.61
60.04
0.77
61.05
OTIP: BM. OK

62.73
58.24
4.49
4.55
F 0.06

56.70
58.54
+1.84
7.62
F 7.46

0+20

Nail 17 6XC
5' Back

2.51

2.73
60.74
1.79
2.58
F 0.26

56.70
61.24
+4.54
6.49
F 11.03

0+10

5' Back

1.17
61.30
1.43
3.07
F 1.64

56.70
61.60
+4.90
3.97
F 10.87

0+00

02.05
60.71 60.0
1.82
3.20
F 1.38

56.70
61.36
+4.66
3.44
F 10.10

2+23⁴³ = Curb. E.C. on Rt.

2+18⁴³ W.L. San Pasqual.

2+18⁴³ W.L. San Pasqual.

2+08⁴³ Curb.

1+68⁴³ = E-Line San Pasqual

1+63⁴³ = Curb
= B.C. on Rt.

1+48⁴³

1+28⁴³

62.77
45.50
17.27
12.98
C 29.65

62.77
49.20
13.57
10.90
C 25.3

62.77
51.81
10.96
8.50
C 2.42

62.77
53.78
8.95
5.95
C 3.00

47.14
44.93
2.81
5.84
F 2.84

44.82 - 50
47.14
46.80 East
1.34
5.61
F 4.31
~~47.14~~
~~45.80~~
~~1.34~~

49.95
56.70
48.80 West
7.90
7.60
F 1.70

56.70
50.48
6.22
9.60
F 3.38

56.70
52.11
4.59
7.60
F 5.07

56.70
54.08
2.62
8.94
F 6.32

3+28⁴³

3+08⁴³

2+88⁴³

2+68⁴³

2+48⁴³

2+28⁴³

South

47.14
37.80
9.34
7.59
C 1.75

47.14
38.41
8.73
6.38
C 2.35

47.14
39.28
7.86
5.08
C 2.78

47.14
40.43
6.71
3.62
C 3.09

47.14
41.85
5.29
1.90
C 3.77

47.14
43.54
3.60
0.29
C 3.31

North

32

47.14
38.10
9.04
8.73
C 0.31

47.14
38.71
8.43
out

47.14
39.58
7.56
9.10
F 0.00

47.14
40.73
6.71
out

47.14
42.15
4.99
7.04
F 3.05

47.14
43.84
3.30
6.14
F 2.84

Turnaround
Curb. Grades

B.C.					
S. Line					
0+00	P.R.C.				
4+03.74	9.69=L	72=L	2.57=L	19.12=L	+18.10
36.04	35.83	35.58	35.52	35.11	

±
Log 44

36.80=L	10+19=L	+18.60	36.80=L	19.12=L	2.57=L
---------	---------	--------	---------	---------	--------

P.R.C.	E.C. N. Line
12 ⁰⁰ =L	9.69=L

Water grades - Evergreen.

35

		stations put on Lath and	BM. P. 21
2+00	S. L. Emerson	0+00	18.34 <u>8.16</u> 26.50 26.50
1+87 ^E	B.K.	+125	18.34 <u>8.16</u> 5.31 22.85
1+75	B.K.	+25	18.37 <u>8.13</u> 6.15 21.95
1+25		0+75	18.60 <u>7.90</u> 6.55 21.35
0+75		1+25	18.83 <u>7.67</u> 6.62 21.05
0+25	B.K.	1+75	19.07 <u>7.97</u> 6.56 20.87
0+125	B.K.	1+87 ^E	19.13 <u>7.37</u> 6.74 20.73
0+00	N. L. Dickens	2+00	19.18 <u>7.32</u> 6.52 20.80

S. L. Fenelon			
2+00	B.K.	0+00	23.70 <u>2.80</u> ✓
1+87 ^E	B.K.	0+125	23.61 <u>2.89</u> 2.86 20.23
1+75	B.K.	+25	23.42 <u>3.08</u> 2.05 20.42
1+25		0+75	22.26 <u>4.24</u> 2.77 21.47
0+75		1+25	21.09 <u>5.41</u> 3.90 21.51
0+25	B.K.	1+75	19.92 <u>6.58</u> 6.58 21.00 19.61 <u>6.89</u> 5.74 21.15
0+125	B.K.	1+87 ^E	19.37 <u>7.13</u> 5.92 21.21
0+00	N. L. Emerson	2+00	

Extend Culvert, Camino de la Costa

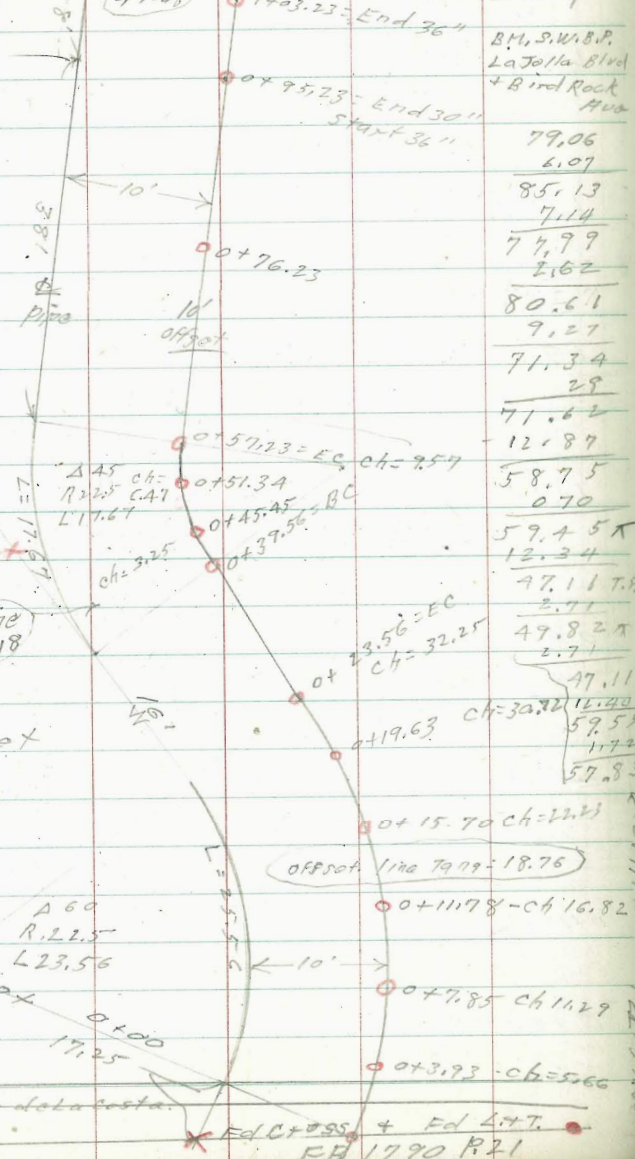
1-12-48

W.O. # 80073

INDEXED
WK
DEC 20 1948

Santhiermeyer
McCoy
w Moore
E Skorman

This point laid
2.5' so of line
179-25'



BM, S.W.B.P.
La Jolla Blvd
+ Bird Rock
Hwy
79.06
2.07
85.13
7.14
77.99
2.62
80.61
9.27
71.34
2.9
71.62
12.87
58.75
0.70
59.45
12.34
47.11
2.71
49.82
2.71
47.11
12.40
59.55
4.72
57.83

Σ 59.45				
0+00	+03.93	0+07.85	0+11.78	0+15.70
45.81	45.48	45.07	44.58	44.10
13.64	13.77	14.38	14.87	15.35
4.20	6.17	6.65	6.09	7.43
C 9.44	C 7.78	C 7.73	C 8.78	C 7.72
Σ 59.45				
E.C.		B.C.		
0+19.63	0+23.56	0+27.56	0+31.45	0+35.34
43.33	42.57	39.32	38.17	37.13
16.12	16.89	20.13	21.28	22.32
7.01	7.17	11.34	10.87	10.92
C 9.11	C 9.75	C 8.77	C 10.37	C 11.40
Σ 59.45				
E.C.		B.C.		
0+57.23	0+76.23	0+95.23	0+114.23	End 1403.23
36.20	33.35	30.50	30.25	29.05
23.25	26.12	19.32	19.57	20.77
11.92	12.30 = T.R.	6.16	6.16	7.16
C 11.31	C 13.78	C 15.16	C 13.41	C 13.61
Σ 59.45				
E.C.		B.C.		
0+15.70	0+19.63	0+23.56	0+27.56	0+31.45
27.87	7.0	30.87	46.87	42.60
Σ 59.45				
check 45.0 + 4.451 = 49.451 OK				

Water line Grades
+ Rough Grade

Knoxville (Morena North)

See 7117-L for revised
water line.

1+50

INDEXED

WK

DEC. 20 1948

1+00

0+50

0+00 = ~~to~~ 1170 Morena.

0-13: Connect to exist 16" water line

T.P. 5.35 14.11 5.24 8.76

BM = B.P. top
Inlet Hd. wall 3.96 14.00 — 10.09
Tecalote Cully.
Morena Blvd.

Stakes 6' LT of \pm
Set to trench grade

Water
Line

38.

6.03
8.08
5.02
C 3.04

6.24
7.87
5.29
C 2.58

6.44
7.67
5.50
C 2.17

6.65
7.46
5.02
C 2.44

6.70
7.41
5.7
C 2.1

14.11

Rate .004116

water
2.10

= 4+50 Ahead
= Δ 5°40' Rt. in water line
4+50th Back

T.P. 6.28 16.88 3.51 10.60

4+00 Brk. in water line Grade
 Δ 5°40' Lt. in water line

3+50

3+00

2+50

2+00

5.00
11.88
4.78
C 9.10

16.88

5.00
9.11
3.51
C 5.60

5.21
8.90
4.15
C 4.75

5.42
8.69
4.40
C 4.23

5.62
8.49
4.68
C 3.81

5.83
8.28
4.91
3.37

14.11

1700

Gutter
T. Levels
Brk. 1. p. 12
12.04
5.10
17.14 X

W
Gutter

11.72
3.42
3.70
F 0.28

10.52 Gr.

8.16
8.72
8.68
C 1.04

E
Gutter

11.72
5.42
4.65
C 0.77

6+50

6+18¹³ Nly. Tanepah Brk. in (W) grade

11.55
5.89
6.12
F 0.53

T 17.14

8.00
8.88
4.87
C 4.01

11.55
5.89
4.63
C 0.96

T 17.14

6+00

7.54
9.34
4.92
C 4.42

5+68¹² Sly. line Tanepah

Waterline

5+50

6.27
10.61
5.95
C 4.76

5+00 Brk. in water line Gr.

5.00
11.88
2.50
C 9.38

16.88

9+50

$$\begin{array}{r}
 17.14 \times \\
 5.42 \\
 \hline
 11.72 \\
 8.42 \\
 \hline
 20.14 \times
 \end{array}$$
T.P.
7
$$\begin{array}{r}
 13.29 \\
 3.86 \\
 \hline
 5.42 \\
 \hline
 F 1.56
 \end{array}$$

$$\begin{array}{r}
 9.72 \\
 8.21 \\
 8.30 \\
 \hline
 C 1.91
 \end{array}$$

$$\begin{array}{r}
 13.28 \\
 3.86 \\
 \hline
 5.14 \\
 \hline
 F 1.30
 \end{array}$$

9+00

$$\begin{array}{r}
 13.02 \\
 4.12 \\
 6.00 \\
 \hline
 F 1.88
 \end{array}$$

$$\begin{array}{r}
 9.46 \\
 8.47 \\
 6.77 \\
 \hline
 C 1.50
 \end{array}$$

$$\begin{array}{r}
 13.02 \\
 4.12 \\
 5.10 \\
 \hline
 F 0.98
 \end{array}$$

T.P.

7.11

17.93

6.06

10.82

17.93

8+50

$$\begin{array}{r}
 12.70 \\
 4.38 \\
 4.96 \\
 \hline
 K 0.58
 \end{array}$$

$$\begin{array}{r}
 9.20 \\
 7.68 \\
 6.06 \\
 \hline
 C 1.62
 \end{array}$$

$$\begin{array}{r}
 12.70 \\
 4.38 \\
 5.40 \\
 \hline
 F 1.02
 \end{array}$$

8+00

$$\begin{array}{r}
 12.50 \\
 4.44 \\
 5.09 \\
 \hline
 F 0.45
 \end{array}$$

.0072

$$\begin{array}{r}
 8.94 \\
 7.94 \\
 5.54 \\
 \hline
 C 2.40
 \end{array}$$

$$\begin{array}{r}
 12.50 \\
 4.64 \\
 5.25 \\
 \hline
 F 0.61
 \end{array}$$

7+50

$$\begin{array}{r}
 12.24 \\
 4.90 \\
 5.16 \\
 \hline
 F 0.26
 \end{array}$$

$$\begin{array}{r}
 8.68 \\
 8.20 \\
 5.28 \\
 \hline
 C 2.82
 \end{array}$$

$$\begin{array}{r}
 12.24 \\
 4.90 \\
 4.88 \\
 \hline
 C 0.02
 \end{array}$$

7+00

$$\begin{array}{r}
 11.98 \\
 5.16 \\
 5.40 \\
 \hline
 F 0.24
 \end{array}$$

$$\begin{array}{r}
 9.42 \\
 8.46 \\
 5.18 \\
 \hline
 C 3.28
 \end{array}$$

$$\begin{array}{r}
 11.98 \\
 5.16 \\
 5.11 \\
 \hline
 C 0.05
 \end{array}$$
K
17.14K
16.88K
17.14

2014

12+50

14.84
5.30
4.49
C 0.82

11.28
6.65
2.70
C 3.75

14.84
5.30
4.72
C 0.58

12+00

14.58
5.56
5.04
C 0.12

11.02
6.91
3.56
C 3.35

14.58
5.56
5.54
C 0.02

11+50

14.32
5.82
5.20
C 0.62

10.76
7.17
4.20
C 2.77

14.32
5.82
6.30
F 0.68

11+00

14.06
6.08
6.29
F 0.21

10.50
7.43
4.57
C 2.90

14.06
6.08
6.06
F 0.38

10+50

13.80
6.39
7.96
F 1.62

10.24
7.69
5.42
C 2.27

13.80
6.39
6.23
C 0.11

Mon. on L4.
20' RT. of Water Line
at 10+34±

5.89 12.04 B.M. #1

10+00

13.54
6.60
8.17
F 1.57

9.98
7.95
3.46
C 2.47

13.54
6.60
7.60
F 1.00

17.93

20.14
X

17.93

20.14
X

Water
2.75

18750

14.76
9.78
5.81
C 4.17

18700

14.45
10.29
5.84
C 4.45

T.P. 6.04 24.74 3.17 18.70

24.74

17750

14.15
7.72
3.17
C 4.55

17700

006115

13.84
8.03
3.48
C 4.55

16750

13.54
8.33
3.57
C 4.74

16700

13.23
8.64
4.21
C 4.43

21.87

21.87

T.P. Mon 8.30 28.00 5.04 19.70
S.E. Gardena
+ Knoxville

20+98⁵⁰ = Sly line Gardena on East

Sly line Gardena on west

20+50

20+00

19+50

19+00

21.74

Set. B.M.

16.30
8.44
3.52
C 4.90

15.99
8.75
3.08
C 3.67

1006115
15.67
9.07
5.63
C 3.44

15.37
9.37
6.00
C 3.37

15.06
9.68
5.76
C 3.92

21.74

Water
Limo

45

check to & comm. drive. (Sta. (E1=18.52)
(17492 F.B.1450 - page 58)

21750

21700

28.00

Water
Life

check .01
19.53
9.47
34.2 ft. of
purple line
14.2 ft. of
water line

16.61
11.39
2.30
29.09

.00615

28.00

2300 + 2400 Blocks - Kettner
Stake curb.

2-27-48
W.O. #21018

INDEXED
WK
DEC 20 1948

Summermeier
McCoy
Moore
Sherman

W. line Kettner

A.C. Pav. 0+80 - 29.69 = Grade set

0+50.5 - 29.90

Brk 0+33 - 30.10 = Br. set

0+16.5 - 30.26

Kalmia St.

Brk 0+00 - 30.02 = Br. (meet. exist.)
0+00 = 37' So. of N. line Kalmia = So. end curb. inlet.

F 0.44

Replace F 0.30

F 0.19

0-96 Meet. Exist. Cl.

SE. R.R. Laurel to Sta.

32.97

2.16

Restake

5/26/48

47

0+11.5	0+00	0+16.5 Brk	0+33	0+56.5	0+80
30.11	30.02	30.06	30.10	29.90	29.69
	5.11	5.07	5.03	5.23	5.24
	5.50	5.40	5.48	5.59	5.66
	F 0.39	F 0.33	F 0.45	F 0.36	F 0.22

0-96 Meet. Cl.

35.03
5.10 ✓

on Rake - going W.

#1	#2	#3
5.11	5.11	5.11
5.27	5.34	5.27
F 0.36	F 0.23	F 0.16

0+80 29.69
5.37
5.02
F 0.25

0+33 30.10
4.96
5.50
F 0.54

0+56.5 - 29.90
5.16
5.58
F 0.42

0+00 30.02
5.04
5.57
F 0.55

0+16.5 30.06
5.00
5.02
F 0.42

0-96 Meet. Cl.

El. = 38.03 ✓

3/9/48

W.O. 21018

78

Everts & Garnet.

Set walk grade 43' so of N. line
Garnet. west side Everts.

Nail set. on west line Everts
45' so. Garnet. Grade for 43' so.

sw. Ret. South end = 38.53 OK

At. N. line Alley (Profile #1139) = 36.32

Rate (Fig) = .0178 per foot.

Ch. grade 43' so = 37.76

Prop. " " " = 37.96

B.M. = N.W. B.P. Garnet & Everts =

3.67 43.20 — 39.53

Q. 37.96

5.24

5.24

←

set nail in form
for foundation.

INDEXED
WK
DEC 20 1948

3/10/48

Water Main + Services
Benton Place - M.O. 31018
Drawing # 6785-L
stakes 5' Left.

3+00

390.25 8.87
5.46
3.41
+2
c-3.6

90° L Left.

INDEXED

W.K.

DEC 20 1948

+50

2+00

+50

1+00

+50

TP 4.55 399.12 6.00 394.57

Raked

0+00

390.9 9.67 9.67
391.28 9.28 9.28
c 4.80

Connection to Exist 6" Water Main
East Mountain View & Benton Pl.

S.W. B.A.
M.V. View
7.35 ft

5.15 400.57

395.42

SW 13P
 Mt. View +
 25th
 TP 5.67 398.25 2.87 395.43
 0.94 392.58

10+77.10

10+21.42

388.26

10.26
 6.81
 3.45
 +3
 C-3.7

Raked

Connects to Exist 4" water Main
 38°47' < Lt.

4+90

Marked location on Curb of Fire Hydrant

TP 2.29 393.52 7.89 391.23

4+00.1

389.50

9.62
 5.89
 3.78
 +2
 C-9.0

90° < Rt.

3+50

389.87

9.25
 5.42
 3.83
 .2
 C 4.0

399.12

Alley Bk 131 Manassas + Shiller Add
(Sheet L6933)

3-12-48
W.O. 31212

Summermeys
M. Coy. T
W. Moore
E Sherman

D = Stake
N = Nail
X = Cross

Left, Right
outs are from Edge of Pav.

INDEXED
WK
DEC 20 1948

D 3' out.	27.04			27.04	2' out. D
1+68	3.87			3.87	
	3.80			4.11	
	C0.07			F0.24	
+ 1 st out.	25.72			25.72	2' out. D
1+24	5.19			5.19	
	4.19			6.07	
	C1.00			F0.90	
D out. 1 st	24.40			24.40	3 rd out D
0+80	6.51			6.51	
	6.59			6.70	
	F0.08			F0.19	
D out. 1 st	23.68			23.68	3 rd out. D
0+60	7.23			7.25	
	4.21			6.90	
	X			C0.85	
D out 1 st	22.72			22.64	3 rd out D
0+40	8.19			8.27	
	7.30			7.22	
	C0.87			C1.04	
T.P.	7.23	30.91	0.85	23.68	
N. out 2 nd	21.52			21.35	3' out. D
0+20	3.01			3.18	
	1.01			1.48	
	C2.00			C1.70	
S.E. 1/4 Sigsbee	20.08			19.77	
0+00	4.45			4.76	
B.P. N.E. National to Sigsbee	0.59	24.53		23.94	

	Left			Right	
D 2' out				32.67	D 2' out
4+15	32.67			4.85	
	4.85			4.88	
	1.47			F0.03	
	C0.36				
D 2' back	32.45			32.45	D 2' out
3+80	5.07			5.07	
	5.21			5.91	
	C0.06			F0.84	
D 0.25 out	32.27			32.27	N, 0.20 out
3+60	5.25			5.25	
	4.86			4.25	
	C0.37			21.00	
D 2' out	31.96			31.96	N, 0.35 out
3+40	5.56			5.56	
	5.44			4.58	
	C0.12			C1.00	
D 3' out	31.54			31.54	X-1' out
3+20	5.98			5.98	
	5.62			3.75	
	C0.36			C0.23	
D 2' out	31.00			31.00	X-1' out
3+00	6.52			6.52	
	5.78			5.37	
	C0.74			C1.15	
2+73 ± =	P.O.T.				
D 4' out.	29.68			29.68	0.65 out = N
2+56	7.84			7.84	
	6.71			6.84	
	C1.13			C1.00	
T.P.	7.47	39.52	0.86	30.05	
N. Line	28.36			28.36	3' out D
2+12	2.55			2.55	
	1.55			2.12	
	C1.00			F0.57	

30.91

	Lt.			Rt.	
N. 0.55 Lt.	6.99	40.63	2.14	33.64	D-1' RT
1+40	<u>33.15</u>			<u>33.15</u>	
	2.63			2.63	
	<u>1.63</u>			<u>2.14</u>	
	C 1.00			C 0.50	
INDEXED					
WK					
DEC 20 1948					
N. 0.53 Lt	32.78			32.78	N. 0.78 RT.
1+20	<u>3.00</u>			<u>3.00</u>	
	<u>2.00</u>			<u>2.00</u>	
	C 1.00			C 1.00	
N. 0.60 Lt.	32.22			32.22	N. 1.33 RT
1+00	<u>3.56</u>			<u>3.56</u>	
	<u>2.23</u>			<u>2.23</u>	
	C 7.33			C 1.00	
D-2' Lt.	31.48			31.48	N. 1.10 RT.
0+80	<u>4.30</u>			<u>4.30</u>	
	<u>3.31</u>			<u>3.31</u>	
	C 0.99			C 0.90	
D-2' Lt.	30.57			30.57	N. 0.40 RT
0+60	<u>5.21</u>			<u>5.21</u>	
	<u>3.70</u>			<u>3.70</u>	
	C 1.51			C 0.80	
D-2' Lt.	29.46			29.46	D-2' RT
0+40	<u>6.32</u>			<u>6.32</u>	
	<u>4.18</u>			<u>4.18</u>	
	C 2.14			C 0.58	
D-2' Lt.	28.18			28.18	D-2' RT.
0+20	<u>7.60</u>			<u>7.60</u>	
	<u>4.27</u>			<u>4.02</u>	
	C 3.33			C 0.58	
0+00 =	26.72			26.72	
SEly. Sigsbee				8.97 V	
T.P.	6.37	35.98	1.84	29.41	
NE, B.P. Sigsbee					
National	7.31	31.25	-	23.94	
D = stub					
N = Nail					
X = Cross					

	Lt.			Rt.	
N. 0.10 in Alley	37.66			37.66	D-2' RT.
4+60	<u>4.09</u>			<u>4.09</u>	
	<u>3.73</u>			<u>4.58</u>	
	C 0.36			C 0.41	
X-1' Lt.	37.09			37.09	N. 2' RT.
4+20	<u>4.65</u>			<u>4.65</u>	
	<u>4.65</u>			<u>4.65</u>	
	C 0.91			C 0.23	
X-1' Lt.	36.53			36.53	N. Line
3+80	<u>5.22</u>			<u>5.22</u>	
	<u>3.30</u>			<u>3.30</u>	
	C 0.02			C 1.75	
T.P.	5.07	4.95	4.35	30.28	
X-0.25 in Alley	35.96			35.96	N. 0.35 RT
3+40	<u>4.67</u>			<u>4.67</u>	
	<u>4.54</u>			<u>4.54</u>	
	C 0.10			C 1.42	
D on line	35.40			35.40	COOK TECH. 0.80 RT.
3+00	<u>5.27</u>			<u>5.27</u>	
	<u>5.30</u>			<u>4.58</u>	
	C 0.07			C 0.67	
N. 0.04 in Alley	34.87			34.87	N. 0.43 RT
2+60	<u>5.80</u>			<u>5.80</u>	
	<u>5.80</u>			<u>5.80</u>	
	C 0.20			C 0.20	
D-0.50 Lt	34.27			34.27	D-2' RT
2+20	<u>6.96</u>			<u>6.96</u>	
	<u>5.17</u>			<u>6.34</u>	
	C 0.19			C 0.02	
N. 0.65 Lt.	33.71			33.71	N. 0.80 RT.
1+80	<u>6.92</u>			<u>6.92</u>	
	<u>6.92</u>			<u>6.92</u>	
	C 0.68			C 1.00	

BIK 139 M+S Add.

54

	Lt.			Rt.
6401 S.W.V. Beardsley	$\frac{38.39}{5.13}$			$\frac{38.40}{5.12}$ $\frac{3.27}{-0.01}$
D-2' Lt. 5+80	$\frac{38.53}{4.99}$ $\frac{3.88}{C 1.11}$			$\frac{38.53}{4.77}$ $\frac{3.57}{C 1.40}$ N 0.25 Rt
D 2' Lt. 5+60	$\frac{38.61}{4.71}$ $\frac{4.18}{C 0.73}$			$\frac{38.61}{4.71}$ $\frac{4.05}{C 0.86}$ N 0.32 Rt
N. 0.50 Lt. 5+40	$\frac{38.59}{4.93}$ $\frac{3.50}{C 1.43}$			$\frac{38.59}{4.73}$ $\frac{3.103}{F 0.10}$ D 2' Rt.
N. 0.24 Lt. 5+20	$\frac{38.47}{5.05}$ $\frac{4.32}{C 0.73}$			$\frac{38.47}{5.05}$ $\frac{4.26}{C 0.59}$ N. 0.45 Rt.
D 2' Lt. 5+00	$\frac{38.23}{5.29}$ $\frac{3.12}{C 0.12}$			$\frac{38.23}{5.29}$ $\frac{4.75}{C 0.53}$ X-2' Rt

T.P. 5.05 43.52 328 38.47

41.75

Grades Wabaska Dr. 4/18/48
Capistrano to Chatsworth.

INDEXED

WK

DEC 20 1948

Sty. Poc.
1798.05

70.32

1763.09

70.04

1729.13

69.77

1709.13

69.58

1778.71

69.29

+49.69

69.00

+29.69

68.82

Wly. Capistrano
0+00

68.67

☺

35

1797.06

74.85

1759.80

73.93

1722.54

73.01

1702.54

72.54

+82.54

72.11

+62.54

71.74

+42.54

71.55

Wly. Poc.
0+00

71.17

INDEXED
WK
DEC. 20 1948

Ely. Chats.
2+82.43

76.43

2+37.0C

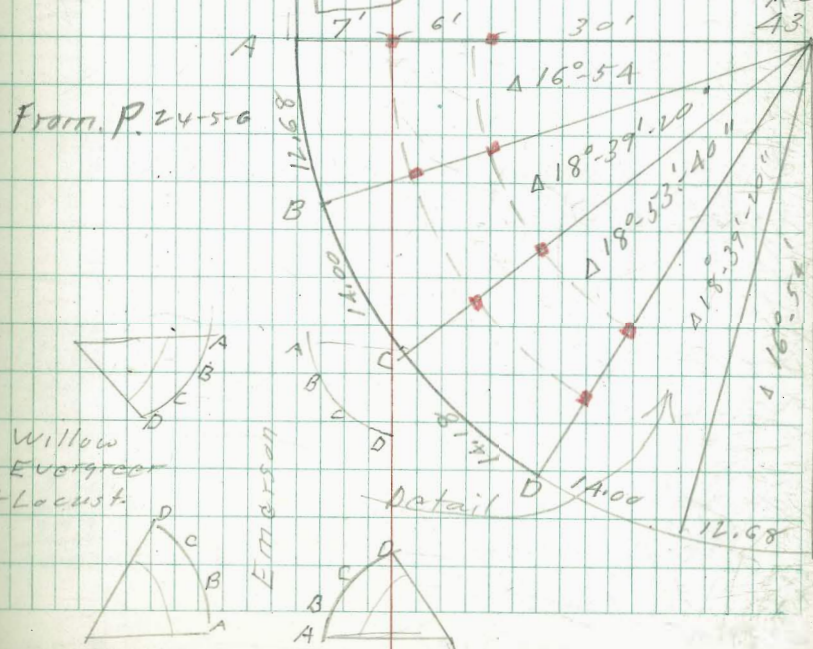
75.75

2+17.0G

75.31

Detail Curb Return stakes
Set. EMERSON ST.

Rate	L	ch.	Def.
43' Rad. = 37.9774'	40.86		
36' Rad. 47.7464'	12.68	10.58	8°-27'-"
"	14.00	21.98	17°-46'-30"
"	14.18	32.74	27°-13'-30"
36' Rad. 47.7464'	12.68	10.58	8°-27'-"
"	14.00	11.67	9°-19'-40"
"	14.18	11.82	9°-26'-50"
30' Rad 57.2957	12.68	8.82	8°-27'-"
"	14.00	9.72	9°-19'-40"
"	14.18	9.85	9°-26'-50"



Emerson
Meter Box grades

INDEXED

WK

DEC 20 1948

1
2+75

8.12 20.55 0.78 121A3

0+25

(0+25-21) 21' Back of E.C. on Rt. d.B. 14.40

0+17 (10' - B.C. on left.)

← Locust St. →

29' on curve to left.

2+80 1/2 (5' on curve on Rt.)

2+75 Take point.

0+34 Take point

Stakes 0.06 above curb grade

W. 1190 Rosecrans = 0100

W. 4' Oak
Emerson
Rosecrans

7.20 13.41

6.15 P. 27

Exit Cl.

18.00
2.55
2.55
x

20.55

18.50
2.05
4.09
x
20.05

12.50
0.91
0.91
x

11.90
1.51
2.51
x

#1
12.32
1.09
1.09
x

#2
12.40
1.01
1.01
x

#1
11.43
1.99
0.98
C 1.00

#2
11.49
1.92
0.92
C 1.00

#1
11.06
2.35

#2
11.14
2.27

#1
10.05
3.36
3.36
L

#2
10.14
3.27
3.27
L

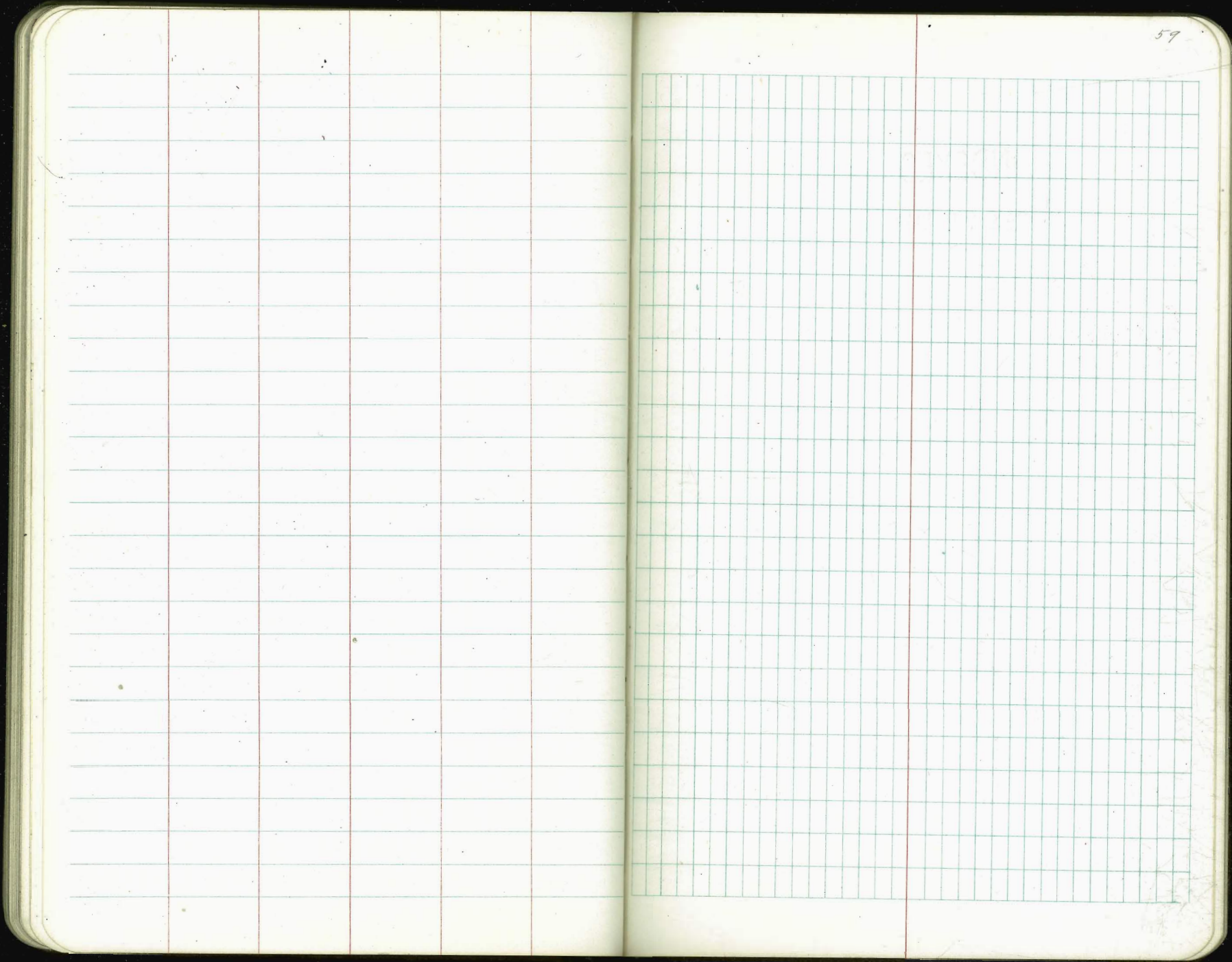
10.58
2.83
2.83
L

9.92
3.49
3.49
L

7.18
6.23
6.29
F0.05

6.21
7.20
6.85
C0.35

13.41



Euclid + Greenland
Sewers

3+24.85

98.73

**INDEXED
WK
DEC 20 1948**

2+72.68

97.99

2+20.51

97.24

1+68.34

96.49

1+16.17

95.75

1-5205
5-5217

0+64

M.H.#1

95.00

0+32

93.14

0+00

91.29

*Mind change by
Al Sater. (See page 64)*

1-48.34
2-48.33

7+12.00: M.H.#3

125.94

6+64.16

122.17

6+16.30

119.39

5+68.44

114.61

5+20.58

110.83

4+72.72

107.05

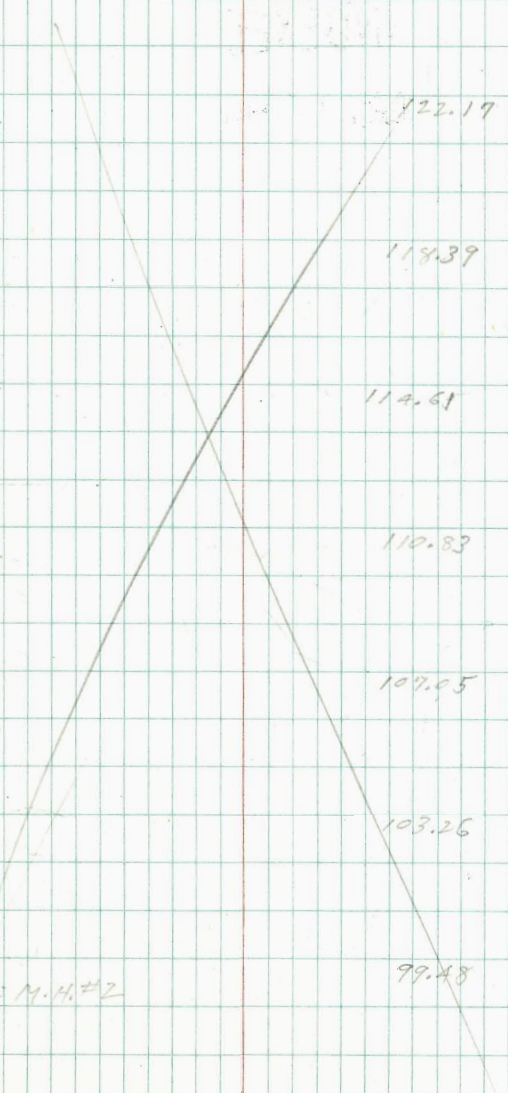
4+24.86

103.26

1-47.84
6-47.86

3+77.00: M.H.#2

99.48



10+62.00

10+21.00

9+80.00

9+39.00

8+98.00

10-11⁰⁰

8+57.00 M.H.#4

8+08.66

7+60.33

13+79⁰⁰

13+42.00

13+04.50

10-37⁵⁰

12+67.00 M.H.#5

12+26.00

11+85.00

11+44.00

11+03.00

16788

5-46⁰⁰

16742

A 74⁰⁰ 10' 27"
M.H. 96~~16701.50~~~~15767⁰⁰~~~~15729⁰⁰~~~~14792⁰⁰~~~~14754⁵⁰~~~~14717⁰⁰~~~~18772 = D. End.~~~~18726~~~~17780~~~~17734~~

San Jacinto Drive

INDEXED
WK
DEC 20 1948

1+75	136.43	12.39 4.56 C 7.83
1+50	136.18	12.64 4.82 C 7.82
1+25	135.93	12.89 5.18 C 7.71
1+00	135.68	13.14 5.69 C 7.45
0+75	135.43	13.39 6.41 C 6.98
0+50	135.18	13.64 7.08 C 6.56
0+25	134.93	13.89 7.89 C 6.00
0+00	134.68	12.14 8.22 C 5.92

From page 68 8.22 148.82 — 140.60

10.15	132.76	✓ (R)
10.04	139.78	
3+00 = D. End.	137.68	11.14 4.45 C 6.69
2+75	137.43	11.39 4.19 C 7.21
2+50	137.18	11.64 4.07 C 7.57
2+25	136.93	11.89 4.26 C 7.63
2+00	136.68	12.14 4.36 C 7.78

L47. P. 65 132.⁷⁶
T.P. 4.13 142.91

149.92

1+79⁴²

96.86
 $\frac{11.07}{4.74}$
 C 6.33

1+68^{3A}

96.49
 $\frac{11.44}{4.62}$
 C 6.82

1+42²⁵

96.12
 $\frac{11.81}{4.62}$
 C 7.19

1+16¹⁷

95.75
 $\frac{12.18}{2.14}$
 C 8.24

0+90⁰⁵

95.37
 $\frac{12.56}{4.08}$
 C 8.78

0+69⁰⁰ M.H.#1 107.93

95.07
 $\frac{12.86}{8.09}$
 C 4.77

0+59

104.22 B.P.
 4.43
 108.65

94.53
 $\frac{14.12}{4.38}$
 C 9.74

0+41

93.54
 $\frac{15.71}{4.45}$
 C 10.66

0+00

91.29

200'Sa. of P. 170' box 3.71 107.93
 Euclid

104.22 B.P. NW.
 Cor. Bridge

4+00

T.P.

12.98 119.22 169 106.24

3+77-N.H.#2

101.29
 $\frac{17.73}{11.40}$
 C 6.33

119.22

99.48
 $\frac{8.45}{1.59}$
 C 6.76

3+50⁹³

99.10
 $\frac{8.89}{2.76}$
 C 5.87

3+24⁸⁵

98.73
 $\frac{9.20}{3.77}$
 C 5.43

2+98⁷⁶

98.36
 $\frac{9.57}{4.36}$
 C 5.21

2+72⁶⁸

97.99
 $\frac{9.94}{4.55}$
 C 5.39

2+46⁵⁷

97.61
 $\frac{10.32}{4.37}$
 C 5.95

2+20⁵¹

97.24
 $\frac{10.67}{4.60}$
 C 6.09

107.93

6+00				117.09	$\begin{array}{r} 13.54 \\ 3.85 \\ \hline 9.69 \end{array}$
------	--	--	--	--------	---

5+75				115.11	$\begin{array}{r} 15.52 \\ 6.42 \\ \hline 9.10 \end{array}$
------	--	--	--	--------	---

5+50				113.14	$\begin{array}{r} 17.49 \\ 8.99 \\ \hline 8.50 \end{array}$
------	--	--	--	--------	---

5+25				111.17	$\begin{array}{r} 19.46 \\ 11.49 \\ \hline 8.02 \end{array}$
------	--	--	--	--------	--

T.P. (Rock)	11.68	130.63	0.27	118.95	
-------------	-------	--------	------	--------	--

5+00				109.19	$\begin{array}{r} 10.03 \\ 2.50 \\ \hline 7.53 \end{array}$
------	--	--	--	--------	---

4+75				107.21	$\begin{array}{r} 12.01 \\ 4.98 \\ \hline 7.03 \end{array}$
------	--	--	--	--------	---

4+50				105.24	$\begin{array}{r} 13.98 \\ 7.45 \\ \hline 6.53 \end{array}$
------	--	--	--	--------	---

4+25				103.26	$\begin{array}{r} 15.96 \\ 9.76 \\ \hline 6.20 \end{array}$
------	--	--	--	--------	---

7+75				129.20	$\begin{array}{r} 15.77 \\ 7.85 \\ \hline 7.92 \end{array}$
------	--	--	--	--------	---

7+50				126.90	$\begin{array}{r} 16.27 \\ 8.72 \\ \hline 7.55 \end{array}$
------	--	--	--	--------	---

7+25				126.20	$\begin{array}{r} 16.77 \\ 9.86 \\ \hline 6.91 \end{array}$
------	--	--	--	--------	---

T.P. (LATE) England Doverland	10.21	142.97	6.58	132.76	
					Restate 6' west
7+12 = 144 #3	89°-20'-30" RT.			125.94	$\begin{array}{r} 17.03 \\ 10.33 \\ \hline 6.70 \end{array}$
	10.21	142.97		132.76	

7+00				124.98	$\begin{array}{r} 14.36 \\ 7.05 \\ \hline 7.31 \end{array}$
------	--	--	--	--------	---

6+75				123.01	$\begin{array}{r} 16.33 \\ 7.70 \\ \hline 8.63 \end{array}$
------	--	--	--	--------	---

6+50				121.03	$\begin{array}{r} 18.31 \\ 8.69 \\ \hline 9.63 \end{array}$
------	--	--	--	--------	---

T.P.	10.32	139.34	1.41	129.02	
6+25				119.06	$\begin{array}{r} 11.59 \\ 1.51 \\ \hline 7.96 \end{array}$

9+75

130.49
12.48
41.78
C 7.70

9+50

130.14
12.83
41.86
C 7.77

9+25

129.79
13.18
51.01
C 8.17

9+00

129.44
13.53
51.07
C 8.46

.035

8+75

129.09
13.88
51.44
C 8.44

8+57 = M.H.H.A

+50
14.27
51.85
C 8.42

128.84
14.13
51.77
C 8.36

8+25

128.20
14.77
63.1
C 8.46

8+00

127.70
15.27
64.1
C 8.36

142.97

1.014 = 1.14%

2% .02

11+75

132.29
7.58
3.20
C 5.78

11+50

132.99
10.03
4.18
C 5.85

11+25

132.59
10.38
4.26
C 6.12

11+00

132.24
10.93
4.35
C 6.38

10+75

131.89
11.08
4.39
C 6.69

10+50

131.54
11.43
4.51
C 6.72

10+25

131.19
10.78
4.64
C 7.14

10+00

130.84
12.13
4.71
C 7.42

141.97

1.014

17+50	138.44	11.60	5.32	C 6.34
-------	--------	-------	------	--------

17+25	138.24	11.86	5.42	C 6.44
-------	--------	-------	------	--------

17+00	138.04	12.06	5.83	C 6.23
-------	--------	-------	------	--------

16+75	137.84	12.26	6.03	C 6.23
-------	--------	-------	------	--------

16+42	137.58	12.52	6.28	C 6.24
-------	--------	-------	------	--------

T.P. 6.40	150.10	2.10	143.70	10.36	4.10	C 6.26
16+25			137.44			

16+00	137.24	10.54	4.22	C 6.34
-------	--------	-------	------	--------

15+75	137.04	10.74	4.29	C 6.49
-------	--------	-------	------	--------

147.80

Continued on Page 63

T.P. 9.50 140.60

18+72 D.E.	139.42	10.68	4.02	C 6.24
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18+50	139.24	10.86	4.67	C 6.19
-------	--------	-------	------	--------

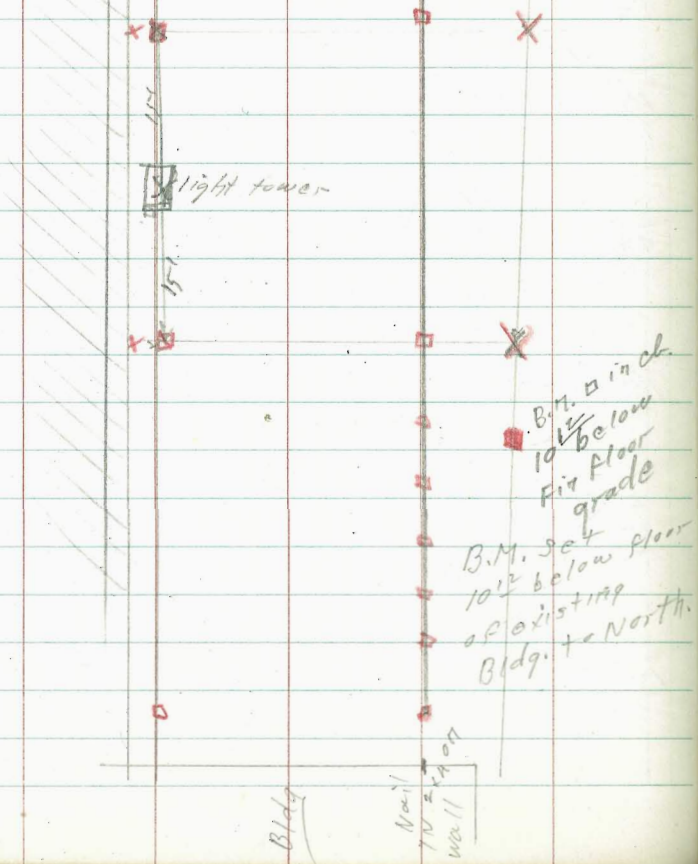
18+25	139.04	11.06	4.85	C 6.18
-------	--------	-------	------	--------

18+00	138.84	11.26	4.82	C 6.44
-------	--------	-------	------	--------

17+75	138.64	11.46	5.15	C 6.31
-------	--------	-------	------	--------

INDEXED
WK
DEC 20 1948

Existing Conc. walk
Existing wall



B.M. 10' below floor grade
B.M. set 10' below floor of existing Bldg. to North.

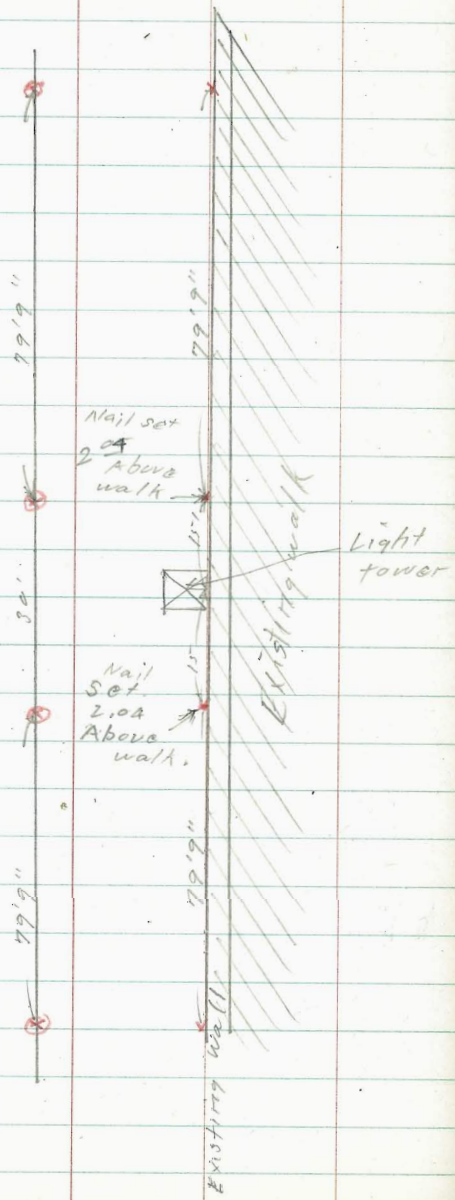
Bldg

Nail in wall

4/29/48

⊗ = Cross in st. →

× = " in wall



Bentoni Place 4-15-48

	Lt.		RT.
0+25	$\frac{393.05}{5.97}$ ✓		$\frac{392.75}{6.27}$ ✓

=0400	$\frac{393.30}{5.72}$ ✓		$\frac{393.00}{6.02}$ ✓
1+00			
W.L. Bentoni			
to South.			

+70			$\frac{393.20}{5.82}$ ✓ = Cl. E.C.
-----	--	--	------------------------------------

0+50			$\frac{393.30}{5.72}$ ✓ = Ob. B.C.
------	--	--	------------------------------------

=0400	$\frac{393.40}{5.62}$ ✓		$\frac{393.50}{5.52}$ ✓
2+78			
S.L. Bentoni			
(East+West)			

Rak & T.P.	1.60	<u>399.02</u>	6.06	394.42
------------	------	---------------	------	--------

0+08E	$\frac{394.52}{5.96}$		$\frac{394.42}{6.06}$ ✓
Endgo pave.			
0+00			
M.V. Dr.			

0-107		$\frac{394.62}{5.86}$	$\frac{394.49}{5.99}$ ✓
B			58+

B.M. SW. C.R.	5.06	400.48	—	395.42
35' N. Non stair				
170 W				

A

Cl. B.C. on Lt.	$\frac{386.50}{7.24}$ ✓	4+15	$\frac{386.50}{7.24}$ ✓	$\frac{387.51}{6.23}$ ✓
5+73E				

4+00	$\frac{388.27}{5.47}$		$\frac{388.27}{5.47}$	$\frac{387.02}{5.72}$
3+75				
Rak & T.P.	2.75	<u>393.74</u>	8.03	390.99

=0400	$\frac{392.35}{6.67}$ ✓		$\frac{392.35}{6.67}$ ✓	Ob. E.C.
1+30				
N. Line Bentoni				
to East				

1+00	$\frac{392.53}{6.47}$ ✓			
Cl. E.C.				

0+80	$\frac{392.62}{6.40}$ ✓			
Cl. B.C.				

0+50	$\frac{392.80}{6.22}$ ✓		$\frac{392.50}{6.52}$ ✓	Ob. B.C.
E.L. Bentoni				
to North				

$$4+50 \quad \frac{387.77}{5.97} \checkmark$$

$$4+25 \quad \frac{388.02}{5.72} \checkmark$$

$$A+00 \quad \frac{388.27}{5.47} \checkmark$$

$$\frac{388.27}{5.47} \checkmark$$

$$3+75 \quad \frac{388.53}{5.24} \checkmark$$

$$\text{End.} \quad \frac{386.41}{7.33} \text{OK}$$

$$\frac{386.18}{7.56} \text{OK}$$

$$5+98.24$$

$$\text{CG, E.C.} \quad \frac{386.47}{7.27}$$

$$1^{\circ} \text{POSTEC.} \quad \frac{7.27}{7.28} \checkmark$$

$$\frac{386.37}{7.37} \checkmark$$

$$5+84.16$$

$$\text{BC. div.}$$

$$\frac{386.42}{7.32} \checkmark$$

$$+50 \quad \frac{386.75}{6.99} \checkmark$$

$$+25 \quad \frac{387.00}{6.74} \checkmark$$

$$5+00 \quad \frac{387.25}{6.49} \checkmark$$

$$A+75 \quad \frac{387.51}{6.23} \checkmark$$

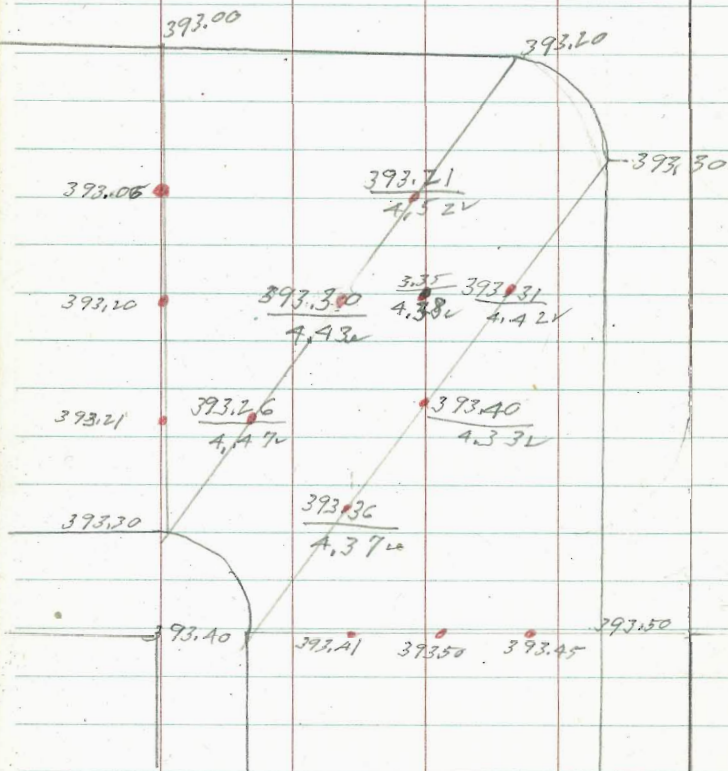
0+25	392.96 4.79V	392.95 4.78V	392.81 4.72V		
Wil. Benton 0+00 To South	393.30 393.46 25 393.21 4.52V	393.45 25 393.20 4.53V	393.38 25 393.08 4.67V	393.00	
Intersection Page 7A					7397.73
S.L. Benton EW. Street LTSZ	93.40 93.66 25 93.41 4.22V	93.75 25 93.50 4.23V	93.70 25 93.45 4.28V	93.50	
0+086 M.V. Drive Pav. on west	394.52 394.72 25 394.47	394.77 25 394.52 4.48	394.68 25 394.43	394.42	
	4.58	99.00	394.42	30	
0+00 M.V. Drive Pav. on E			394.77		
Pav. M.V. Drive on East 0-10 L				349.49	

	1/4	1/2	3/4	73	
Don'tt. Ahead to E.C.	386.47 5.45	386.64 25 386.39 5.53	386.67 25 386.42 5.50	386.59 25 386.34 5.58	386.37 5.55
SPLIT Δ 5+84 16	386.49 0	386.69 25 386.44	386.72 25 386.47	386.64 25 386.39	386.40
5+73 E Δ on Lt. Back	386.50	386.73 25 386.48 5.29	386.80 25 386.55 5.22	386.73 25 386.48 5.29	386.50
3+00	389.29	389.52 25 389.27 4.55	389.59 25 389.34 4.48	389.52 25 389.27 4.55	389.29
0+00=NIL, Benton to East	392.35	392.58 25 392.33 4.19V	392.65 25 392.40 4.12V	392.58 25 392.33 4.19V	392.35
0+50=EL, Benton to No.	392.80	392.96 25 392.71 5.02V	392.95 25 392.70 5.03V	392.81 25 392.56 5.17V	392.50

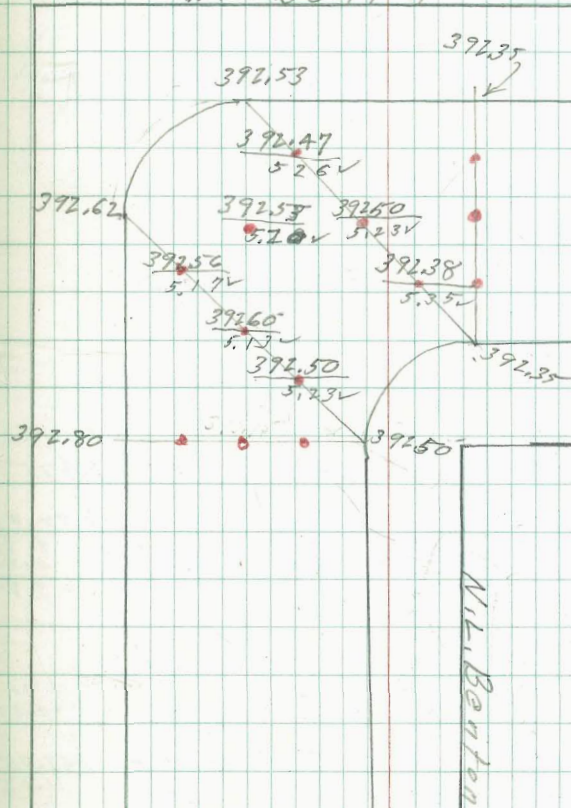
$$\begin{array}{r} 393.50 \\ 4.23 \\ \hline 397.73 \end{array}$$



N. Line Benton (Runs E. + W.)



W. L. Benton



N. L. Benton

Sewer Morley Road Recreation Building

5-6-48
W.O. 90064

INDEXED
WK
DEC 20 1948

Sommermayor
McCoy
vs Moore
Sherman

Orig. B.M. 4.38 272.81

2+80 - DE 107 M.H.

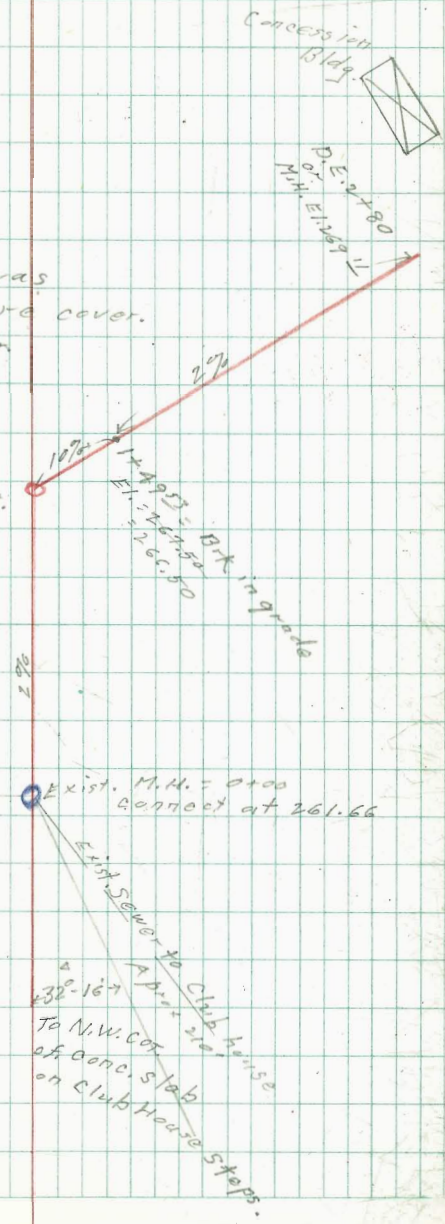
269.11
8.08
3.12
C 4.96

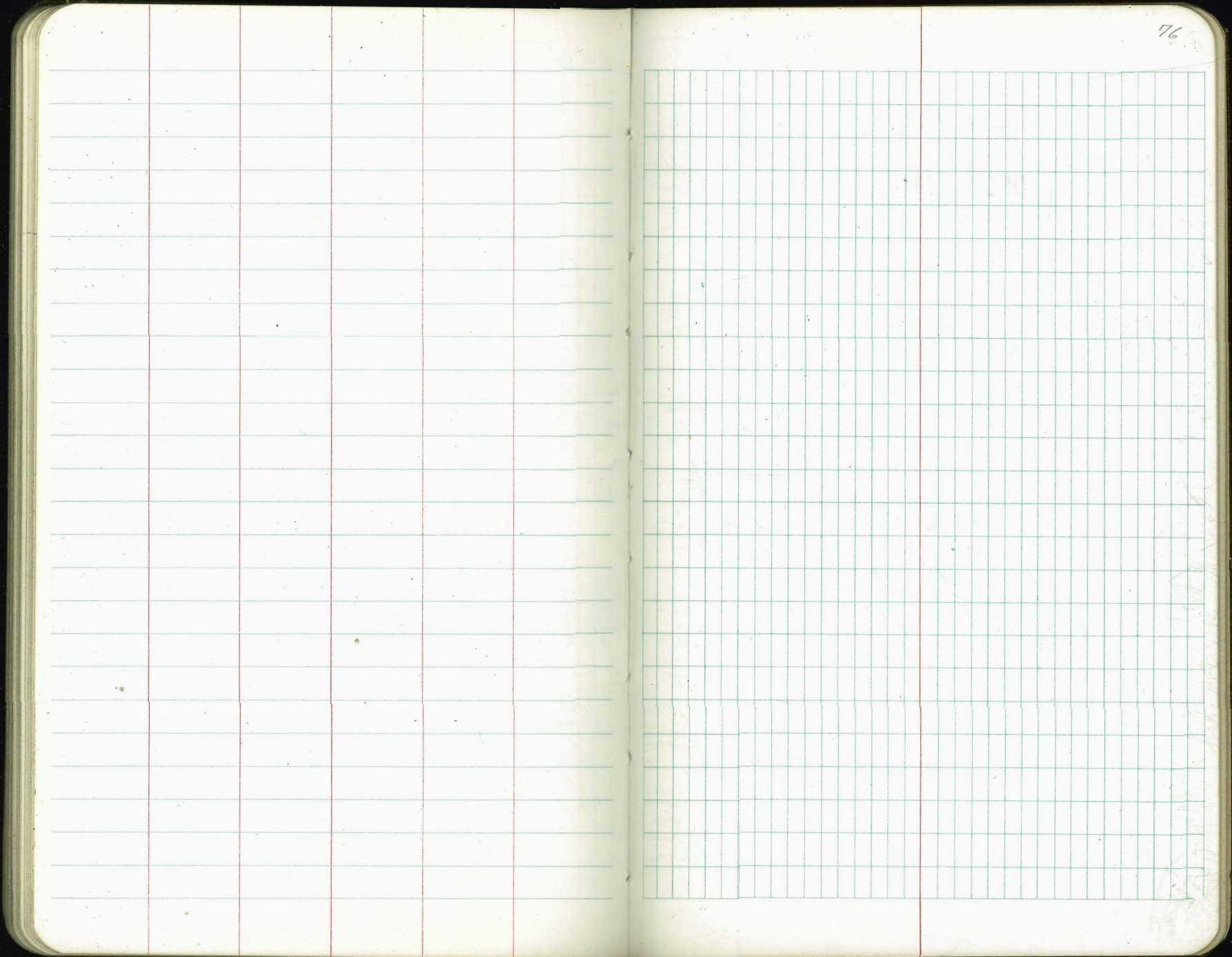
B.M. 1+49.53	1+75	2+00	2+25	2+50	2+75
266.50	267.01	267.51	268.01	268.51	269.01
10.67	10.18	9.68	9.18	8.68	8.18
5.39	5.10	4.95	4.25	4.55	4.34
C 5.30	C 5.04	C 4.73	C 4.43	C 4.13	C 3.84
T.P.	7.15	277.19	4.99	270.04	
0+00	0+25	0+50	0+75	1+00	M.H. 41 1+14.53
261.66	262.16	262.66	263.16	263.66	263.95
13.37	12.87	12.37	11.87	11.37	11.08
5.58	5.62	5.32	5.12	4.96	4.99
C 7.99	C 7.25	C 7.05	C 6.75	C 6.41	C 6.07

T.P. on N.E. Cor. Tennis Court 1775-7A 2.22 275.07 272.81

1+49.53 to 2+80 was lowered 1.00 for more cover. Suggested by A.I. Soter

M.H. 41 Δ 68° 43' RT. 1+14.53





North

Wrightman

W.O. 31023

A-10-18

South

0+00=	5.23	352.91		347.67	
W.L. 36	347.11		31	346.60	
	5.80			6.31	

		351.99			
0+40	347.20	347.14	347.47	346.89	346.70
	5.71	4.85	347.14	5.10	6.21
			4.85		

		352.70	352.70	352.70	
2+80	348.25	348.18	348.52	347.93	347.75
	4.56	4.56	348.19	4.81	5.16
			4.55		

E.L. Wilson	348.37			347.93	
	4.54			4.98	
	352.91				
	3.50				
	349.37				
	6.52				
	355.89				

INDEXED
 WK
 DEC 21 1948

0+00=	349.05			348.67	
W.L. Wilson	6.84			7.22	

		55.61	55.61	55.61	55.61
0+20	349.26	349.52	349.53	349.27	348.76
	6.63	6.07	6.08	6.34	7.13
		33	33	6.07	
		6.72	6.41		

2+80	352.30	352.23	352.57	352.31	351.80
	3.57	3.38	352.24	351.98	4.09
			3.37	3.63	

E.L. 35	352.49		352.82	352.11	
	3.40		par.	3.79	

Set New curb
 To raked grade.

348.25	347.20
4.09	4.79
352.74	351.97

Note:
 Changed grades to set
 sub grade. 4/2/48 e.H.S.

349.26 = 0+2 North	
6.35	6.85
355.61	

36" Culvert 58th + Vale Way

INDEXED
WK
DEC 21 1948

outlet
33+16.7
317 38506

32+85⁰⁰ + Gas line 38544

Stubs set on line of
Gas main (under Const.)

B.M. = Spike in pole 178268 FB $\frac{1825}{31}$

0.13 395.88 395.75 B.M.

32295⁰⁰ 33+05

395.72 385120
3225 PIPE + 3225 PIPE

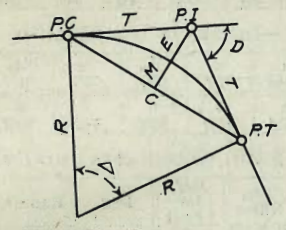
38857 = EL top pipe = 388.45

7.31 7.43
6.93 6.56

C 0.48 C 0.87

DIETZGEN'S RAILROAD CURVE AND REDUCTION TABLES

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CURVE FORMULAS

- Radius= $R = \frac{50}{\sin \frac{D}{2}}$ (1) Degree of Curve= D and $\sin \frac{D}{2} = \frac{50}{R}$ (2)
- Tangent= $T = R \tan \frac{\Delta}{2}$ (3) Length of Curve= $L = 100 \frac{\Delta}{D}$ (4)
- Middle ordinate= $M = R(1 - \cos \frac{\Delta}{2})$ (5) $= R \text{vers} \frac{\Delta}{2}$ (6)
- External= $E = T \tan \frac{\Delta}{4} = R \div \cos \frac{\Delta}{2} - R$ (8) $= R \text{exsec} \frac{\Delta}{2}$ (9)
- Long Chord= $C = 2 R \sin \frac{\Delta}{2}$ (10) Δ = Central Angle

EXPLANATION AND USE OF TABLES

Stations.—Given P. I. = Sta. 161+60.35 to find Sta. of P. C. and P. T. $\Delta = 62^\circ 10'$ $D = 8^\circ 20'$. From Table IV for 1° curve $T = 3454.1$ and $\div 8\frac{1}{2} = 414.49$ ft. From Table V correction = .36 or $T = 414.85$ ft. P. C. = Sta. P. I. - $T = 157 + 45.50$. Also from (4) $L = 746.00$ and P. T. = Sta. P. C. + $L = 164 + 91.50$.

Offsets.—Tangent offsets vary (approximately) directly with D and with square of the distance. Thus tangent offset for Sta. 158 on above curve is 2.16 ft. found as follows. From Table III tangent offset for 100 ft. = 7.27 ft. Distance = $158 - \text{Sta. P. C.} = 54.50$, hence offset = $7.27 \frac{(54.50 + 100)^2}{100^2} = 2.16$ ft. Also square of any distance divided by twice the radius equals (approximately) the distance from tangent to curve. Thus $(54.50)^2 \div (2 \times 688.26) = 2.16$ ft.

Deflections.—Deflection angle = $\frac{1}{2} D$ for 100 ft., $\frac{1}{4} D$ for 50 ft., etc. For c ft. = (in minutes) $.3 \times C \times D^2$ or = defl. for 1 ft. from Table III $\times C$. For Sta. 158 of above curve = $.3 \times 54.5 \times 8\frac{1}{2} = 136.2'$ or $2^\circ 16.2'$, or $= 2.50 \times 54.5 = 136.2'$ from Table III. For Sta. 159 deflection angle = $2^\circ 16.2' + 8^\circ 20' \div 2 = 6^\circ 26.2'$, etc.

Externals.—May be found in similar manner to tangents. Thus E for curve above is 115.37. For from Table IV for 1° curve $E = 960.6$ for $8^\circ 20' = 960.6 \div 8\frac{1}{2} = 115.27$ and from Table V correction = .10 or $E = 115.37$ ft. Or suppose $\Delta = 32^\circ$ and E is measured and found to be 42 ft. What is D ? From Table IV $E = 230.9$ and $\div 42 = 5.5$ or $D = 5^\circ 30'$.

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.

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