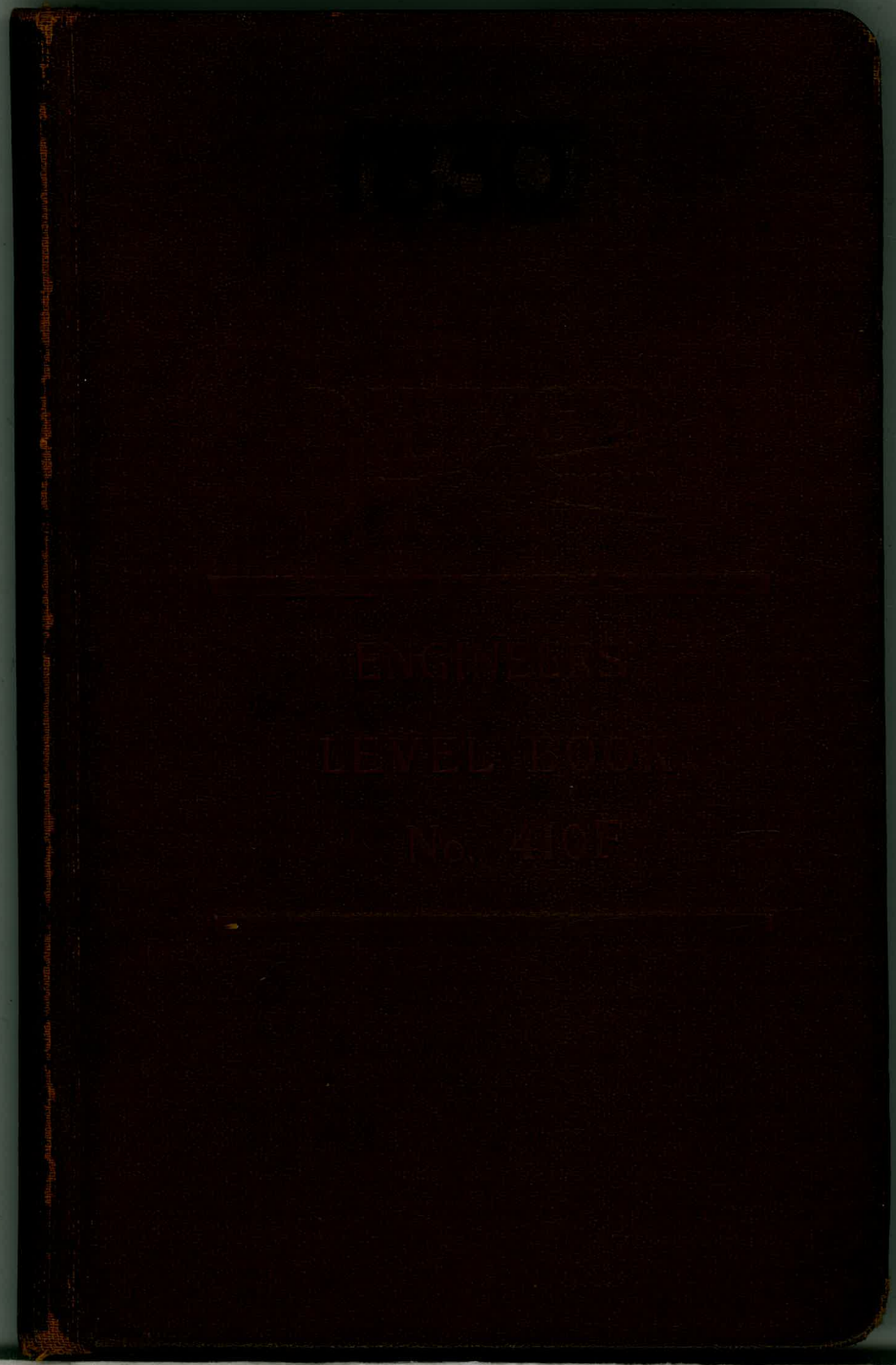


EUGENE DIETZGEN CO.

DRAWING MATERIALS, MATHEMATICAL and SURVEYING INSTRUMENTS

Chicago New York San Francisco New Orleans Pittsburg Toronto

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

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

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

1830

CITY ENGINEERS OFFICE

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.

Cross. Sec. Sterne	Willow to Plum	2 to 8
" " Russell	Willow - west	9 to 25
" " Alley	Portion Blk 5 Pt. Loma Hgts	26 - 29
" " Plum	- Russel to Sterne	30 - 35

Indexed

Ties. Monroe -	Menlo to Euclid	36
Cross Sec Monroe	(additions Notes - New Line) Menlo to Euclid)	38 - 53
" " Aldine	Monroe No	54 - 58
" " Monroe	to Menlo	59 - 66

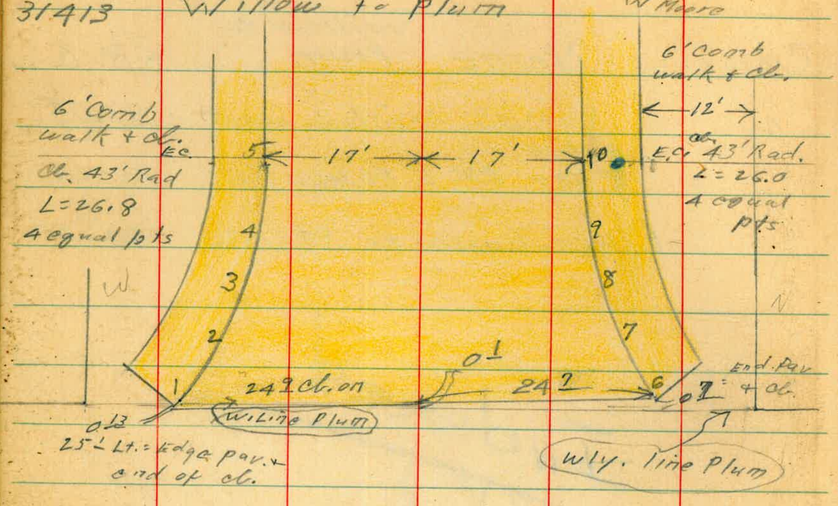
Russell St. from willow to SE line of Pt Loma Hts 70

Sterne from Willow to Plum 72 to end book

1-19-48
W.O.
31413

STERNE St.
Cross Sec.
Willow to Plum

Sommermeyer
W. McCoy
W. Moore

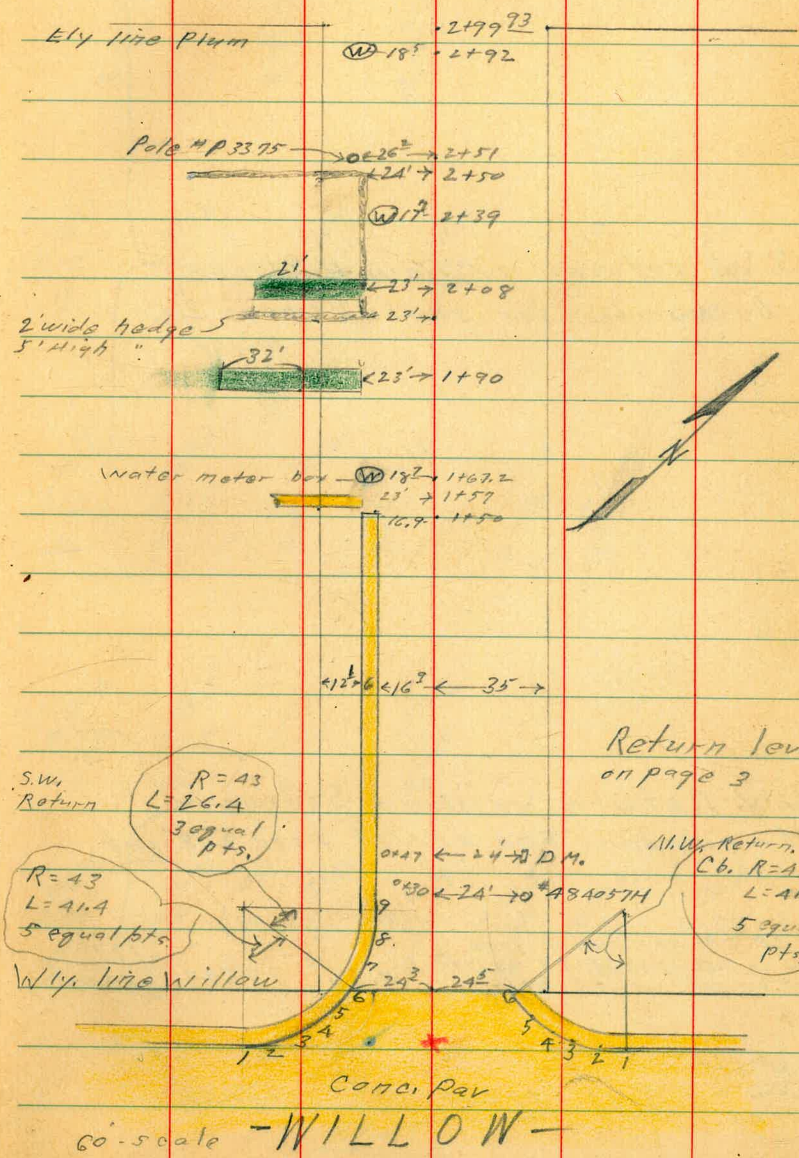


→ Notes reduced by W.K. Lear - 1-30-48

Ely line plum.

20' scale

Continued opposite



Return levels on page 3

60' scale -WILLOW-

Sterne + Willow

N.W. & S.W. Returns

S.W. return Willow + Sterne
by number see sketch page 2 Right

N.W. Return Willow + Sterne
by number. See sketch page 2 Right

N.E.B.P Sterne + Willow gone Show in F.B. 1346-P 37 as 179.12 Shot on ob. at old hole =	0.36	177.07	179.12	See Note
S.W. 15' L+T Willow + Sterne	5.81	177.43	171.62	

171.70	171.67	171.41				
5.73	5.76	6.02				
7	8	9				
ob	ob	ob E.C.				
170.51	171.72	170.69	171.44	171.00	171.61	
6.92	6.21	6.74	5.99	6.43	5.82	
4	4	5	5	6	6	
G	ob	G	ob	G	ob	
169.55	170.32	170.02	170.78	170.28	171.05	
7.88	7.11	7.41	6.65	7.15	6.38	
1	1	2	2	3	3	
G.	ob B.C.	G	ob	G	ob	
172.65	173.28	173.08	172.86			
4.78	4.15	5.35	4.57			
5	5	6	6			
G.	ob.	G	ob			
174.93	175.75	174.05	174.92	173.39	174.15	172.92	173.68
2.50	1.68	3.30	2.51	4.04	3.28	4.51	3.75
1	1	2	2	3	3	4	4
G.	ob. B.C.	G.	ob.	G	ob.	G	ob

177.43

Sterne
Willow to Plum.

0+00 = Wly. line Willow = End. Paving

0-07.

T.P.	2.55	174.17	11.48	171.62

0-18 Cont.

0-18c = Wly. Cb. line Willow

0-35 = ℄ Willow

T.P. Lyt.	11.48	183.10	5.81	171.62
		177.43		

℄

172.07	170.99	171.21	171.68	171.95	172.09	172.86	173.5
2.58	3.18	2.96	2.49	2.22	2.10	1.31	0.7
24.3	24.3	17		17	24.5	24.5	35
Cb.	C.				C	End Cb.	Dirt

171.44	170.65	171.24	171.72	172.19	172.62	173.34
2.73	3.52	2.93	2.45	1.98	1.55	0.83
30.9	30.9	17		17	31.2	31.2
Cb.	C.				C	Cb

174.17

	169.74	167.01	175.74	176.04	178.86	179.08
	15.36	16.09	7.36	5.06	4.24	4.02
	100	100	60	90	90	100
	Cb Boot on pick handle	C.	Ct, Bc.	C	Cb	C. at. drive

170.31	169.56	171.07	171.88	172.34	172.74	173.33	174.32
12.79	13.55	12.03	11.22	10.76	10.36	9.79	8.18
60	60	35	17		17	35	60
Cb, Bc.	C Boot on pick handle						C.

169.90	170.59	171.69	172.21	172.70	173.09	173.88	175.96	180.05
15.20	12.59	11.41	10.89	10.40	10.01	9.22	7.14	3.05
100	60	35	17		17	35	60	100
Boot on pick handle								

183.10

Sterne

1+67.2	18.3 Lt. = Ctr. Water meter box
1+57	23' Lt. = ℄ 2' wide conc. walk
1+50	16.9 Lt. = End 6' comb. walk + ob.
1+10	16.9 Lt. = Top curb.
1+00	
0+50	16.9 Lt. = Face of curb.
0+47	23.6 Rt. = Ctr. deadman
0+30	24' Rt. = Ctr. Pole # 4840574
0+25	17' Lt. = Curb E.C.

174.17

℄

35

167.3 V
6.85
23

167.9	167.46	167.1	167.4	167.8	167.9	168.5	168.00	169.0
6.3	6.71	9.1	6.8	6.4	6.5	5.7	6.2	5.2
35	19.1	16.9	12		9	14	35	75
	ob. End							

168.87 V
5.35
16.9
Top ob.

169.08	168.4	168.7	169.2	169.1	169.7	170.3	169.3
5.09	5.8	5.5	5.0	5.1	4.5	3.9	4.9
16.9	16.9	12		10	15	35	75
ob							

170.47 V	169.9	170.7	170.6	171.7	173.1	174.1
3.75	4.3	3.5	3.6	2.5	1.1	0.1
16.9	16.9		8	17	33	50.
ob						

171.40	170.67	171.5	171.5	171.3	171.4	174.9	175.0
2.77	3.5	2.7	2.7	1.9	1.8	+0.7	+0.8
17	17		11	14	23	35	50
ob. E.C.							

174.17

Storms

2+92 18⁵ Lt. = ctr. water meter box

2+90

T.P. 3.96 169.58 8.55 165.62

2+51 26² Lt. = Pole # P3375

= ℄ N. + S. 2' wide 5' high hedge

2+50 24' Lt. = End 2' wide 5' high hedge

2+39 17³ Lt. = ctr. water meter box

2+08 23' Lt. = ℄ 8' wide oiled drive

2+00 = Start E. + W. hedge 2' wide - 5' High
23' Lt. = ℄ N. + S. hedge also

1+90 23 Lt. = ℄ 8' wide oiled drive

174.17

℄

166.0 / 3.6 / 35 — 165.7 / 3.9 / 27 — 165.1 / 4.5 / 22 — 165.6 / 4.10 / 6 — 165.7 / 3.9 — 165.3 / 4.3 / 10 — 165.8 / 3.8 / 12 — 165.4 / 4.2 / 35

169.58

166.7 / 7.5 / 50 — 166.5 / 7.7 / 35 — 165.8 / 8.4 / 20 — 166.7 / 8.0 / 6 — 166.0 / 8.2 — 165.7 / 8.5 / 10 — 166.0 / 8.2 / 12 — 165.6 / 8.6 / 33 — 166.1 / 8.1 / 80

56 at Gar.

166.8 / 7.4 / 35 — 166.6 / 7.6 / 23

166.8 / 7.4 / 50 — 166.7 / 7.5 / 35 — 166.7 / 7.5 / 24 — 166.5 / 7.7 / 17 — 166.6 / 7.6 — 166.5 / 7.7 / 9 — 167.0 / 7.2 / 14 — 166.7 / 7.5 / 35 — 165.9 / 8.3 / 55 — 167.1 / 7.1 / 80

166.9 / 7.3 / 67 on drive at garage — 166.9 / 7.3 / 35 — 166.9 / 7.3 / 23 ℄ drive

174.17

Sterne

$+69\frac{93}{}$ Cont

$3+69\frac{93}{}$ = w'ly. line Plum (See sketch p. 2).

$3+69\frac{8}{}$ = 25' Lt. = start conc. paving

$3+66\frac{2}{}$ $29\frac{8}{}$ Lt. = Ctr. Pole # P3401

$3+51\frac{93}{}$ Wly Curb Line

$3+34\frac{93}{}$ = ℄ Plum

$3+17\frac{93}{}$ = Ely. Cb. line Plum

$2+99\frac{93}{}$ = Ely. line Plum.

169.58

℄ 7

166.1	163.4	162.8						
3.5	6.2	6.8						
45	35	32						
162.49	162.07	162.2	162.5	162.4	162.4	162.5	162.3	163.7
7.11	7.51	7.4	7.1	7.2	7.2	7.1	7.3	5.9
24.9	24.9	22	10		25	35	70	100
OB	℄							

162.07
7.51
25.1
Paving

164.0	162.6	162.8	162.9	162.7	162.9	162.6	163.4
5.6	7.0	6.8	6.7	6.9	6.9	7.0	7.2
50	35	25	8		17	35	50
168.9	163.5	163.7	163.4	163.3	163.7	163.00	167.9	166.1
0.7	6.1	6.4	6.2	6.3	6.4	6.6	6.7	4.5
125	35	24	8		17	35	65	125
164.7	164.0	163.5	164.1	163.9	164.2	164.1		
5.4	5.6	6.1	5.5	5.7	5.4	5.5		
35	20	17		12	16	35		
165.9	165.5	164.8	165.7	165.7	164.8	165.5	165.1	163.4	165.4
3.7	4.1	4.8	4.4	4.4	4.8	4.1	4.5	6.2	4.2
35	25	22	6		10	13	35	80	125

169.58

Sterne St.

25 Lft tie back N.W. sterne + plum

7.26 162.32 B.M. #1

℄

161.84 7.74 10 C

162.76 7.33 10 ch. EC.

by number. See page 2 Left.

N.W. Return Sterne + Plum.

161.95 7.63 6 C

162.40 7.18 6 ch. BC

161.95 7.63 7 C

162.41 7.17 7 ch

161.89 7.69 8 C

162.35 7.23 8 ch

161.85 7.73 9 C

162.30 7.28 9 ch

by number. See page 2 Left.

S.W. Curb. Ret. Sterne + Plum

162.07 7.51 1 C

162.47 7.11 1 ch. BC.

162.07 7.56 2 C

162.39 7.19 2 ch

161.97 7.61 3 C

162.36 7.22 3 ch

161.90 7.68 4 C

162.30 7.28 4 ch.

161.86 7.72 5 C

162.29 7.29 5 ch EC

4+44 93

161.88 7.70 17 ch

161.47 8.16 17 C

161.75 7.83 8.5

161.97 7.66

161.87 7.76 8.5

161.67 7.96 17 C

162.07 7.56 17 ch

3+94 93 17' Lt + Rt. = Curb. E.C.

162.29 7.27 17 ch. E.C.

161.86 7.72 17 C

163.09 7.49 8.5

162.73 7.35

162.10 7.48 8.5

161.84 7.74 17 C

162.25 7.33 17 ch. E.C.

See sketch - page 2 along edge of paving.

3+70 03 = start conc. Pav. taken

162.47 7.11 25 ch End.

162.07 7.51 24.9 C

162.26 7.32 17

162.39 7.19 8.5

162.44 7.14

162.37 7.21 8.5

162.19 7.39 17

161.95 7.63 24.7 C

162.40 7.18 24.8 ch End

169.58

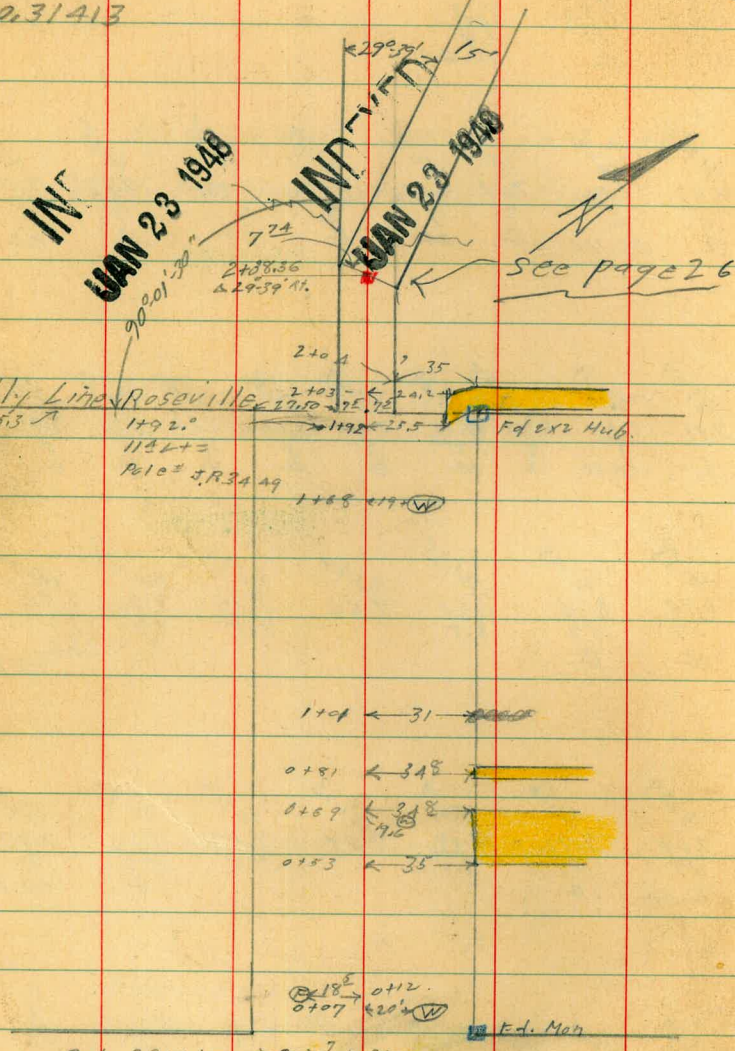
169.58

Russell St.

Cross Sec. Willow to Wly. end.

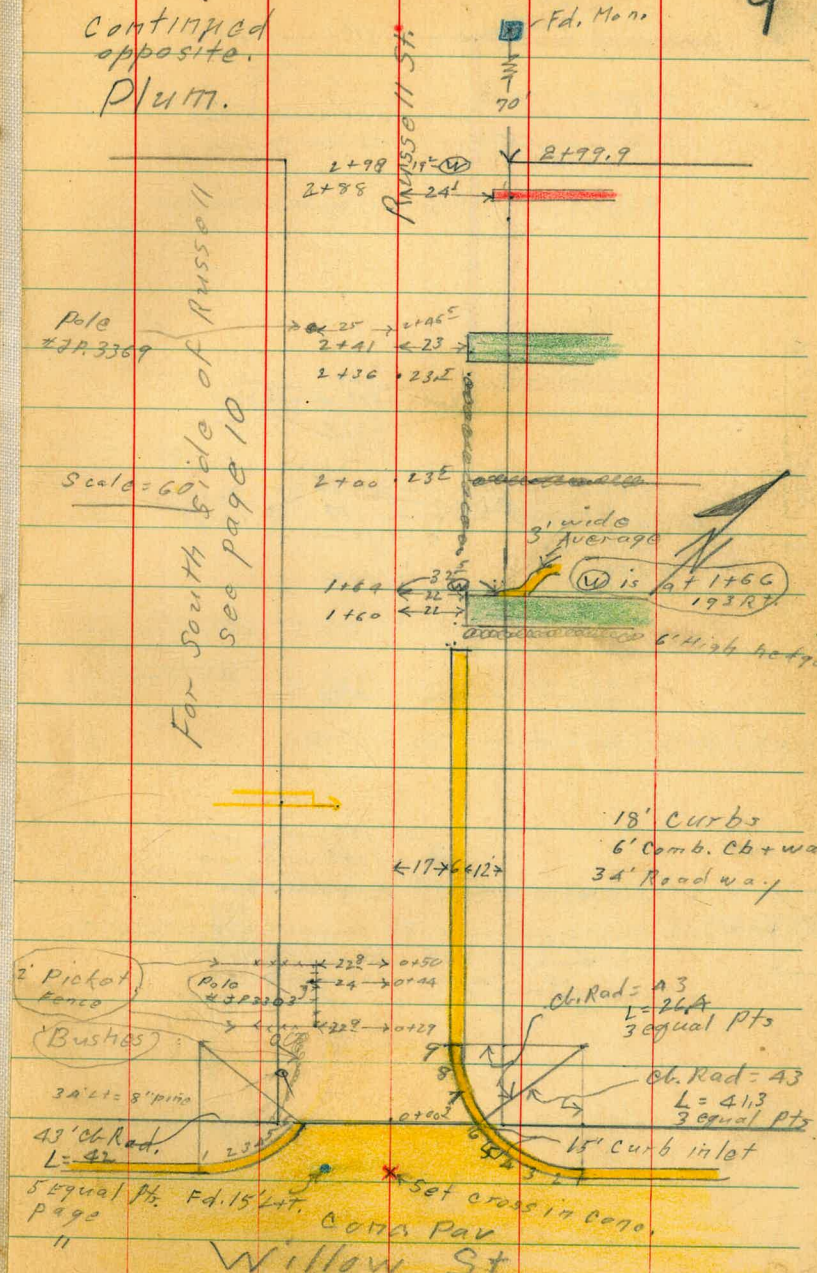
1-21-48

W.O. 31413

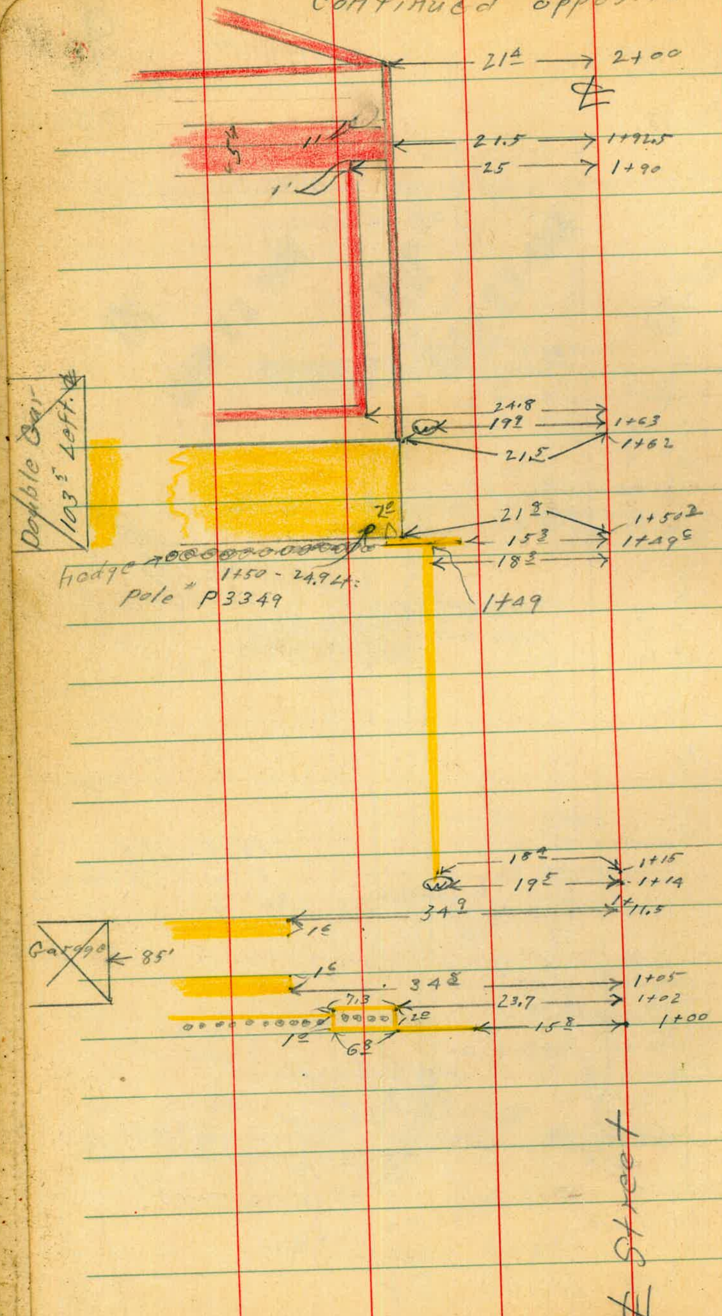


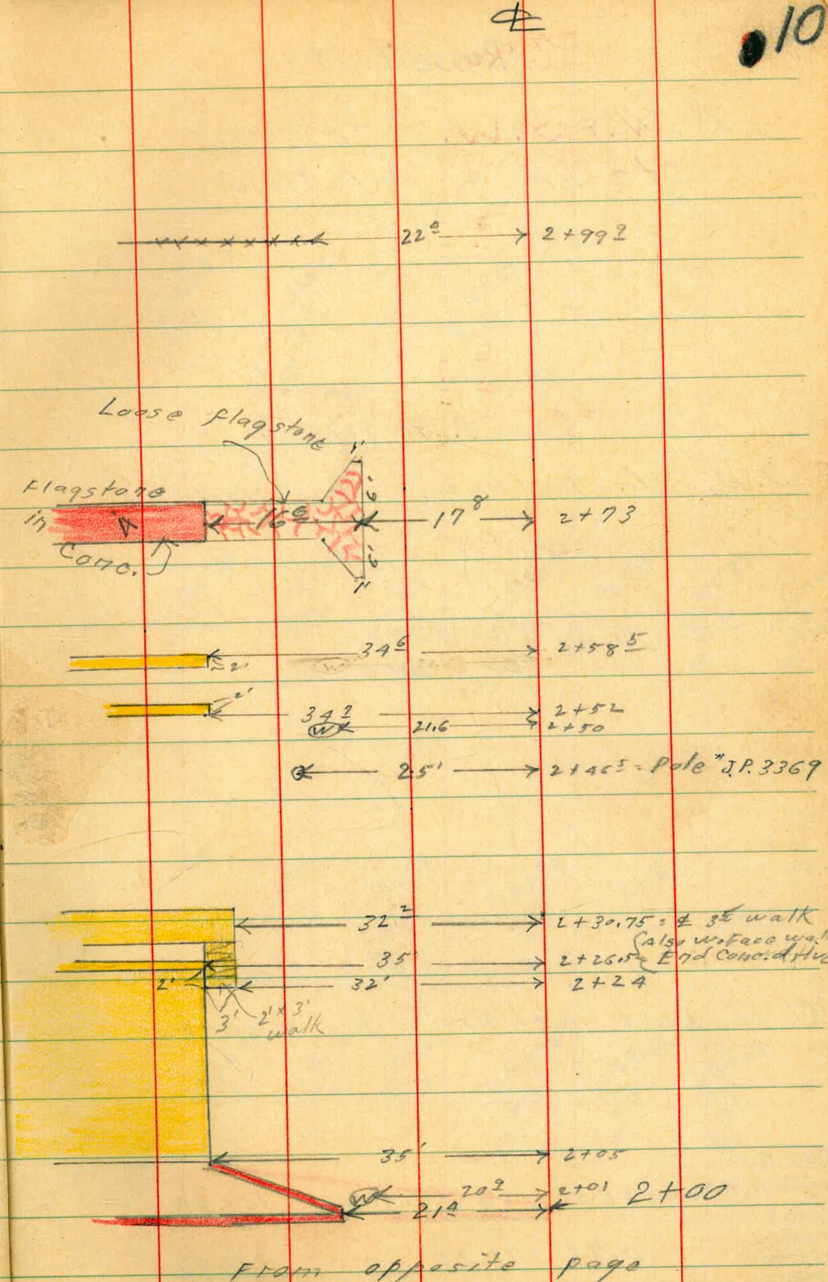
Continued opposite.

Plum.



Continued opposite





From opposite page

Russell St.

N.W. & S.W. returns
sterne & willow

(see P. 9 - right)

S.W. cb. Return. by number.

Note. { G = gutter
cb = curb

see page 9 - Right.

N.W. Curb Return. by number.

S.W. B.P. Willow + Russell	6.25	167.58	11.02	161.33
S.W. 15 Ltt Sterne + Willow (page 3)	0.73	172.35	—	171.62

160.69 — 6.89 / 5 — G

161.32 — 6.26 / 5 — cb

160.66 — 6.92 / 6 — G — End pav.

161.27 — 6.31 / 6 — End cb.

161.84 — 5.74 / 1 — G.

162.53 — 5.05 / 1 — cb.B.C.

161.44 — 6.14 / 2 — G

162.13 — 5.45 / 2 — cb

161.09 — 6.49 / 3 — G

161.77 — 5.81 / 3 — cb

160.82 — 6.76 / 4 — G

161.49 — 6.09 / 4 — cb

159.35 — 8.23 / 5 — G on grate

160.38 — 7.20 / 5 — cb

159.34 — 8.24 / 6 — G — End pav

160.29 — 7.29 / 6 — cb

160.50 — 7.08 / 7 — cb

160.65 — 6.93 / 8 — cb

160.82 — 6.76 / 9 — cb E.C.

160.74 — 6.84 / 1 — G.

161.49 — 6.11 / 1 — cb B.C.

160.34 — 7.24 / 2 — G

161.12 — 6.46 / 2 — cb

160.01 — 7.57 / 3 — G

160.74 — 6.84 / 3 — cb

159.56 — 8.02 / 4 — G

160.53 — 7.05 / 4 — cb

169.58

Russell St.

Sketch on page 9

℄

D = dirt, Pav = pavement.

Elev.	162.2	161.27	160.66	161.2	159.6	159.34	160.29
Rod	5.4	6.31	6.92	6.4	8.0	8.24	7.29
Dist.	35	24^{5}	24^{5}	24^{5}	25	25	25
	D	cb	pav	D	D	pav	cb.

$0+00^{3}$ = End existing paving

Elev.	160.58	160.6	160.51	160.5	160.38	160.2	160.11	159.8	159.72
Rod	7.00	7.0	7.07	7.1	7.20	7.4	7.47	7.8	7.86
Dist.	17	17	8^{5}	8^{5}		8^{5}	8^{5}	17	17
	pav.	D	pav	D	D. + Pav.	D	pav	D	pav

0-18 Cont.

Elev.	165.23	164.45	161.46	163.34	164.05
Rod	2.35	3.13	6.12	4.24	3.53
Dist.	110	110	60	110	110
	Cb	G	Cb. BC	G	Cb

0-18 = Wly. Cb. line Willow

Elev.	162.53	161.84	161.03	160.52	160.26	159.90	160.02	160.74
Rod	5.05	5.74	6.55	7.06	7.32	7.68	7.56	6.84
Dist.	60	60	35	17		17	35	60
	Cb. BC	G						G

0-35 = ℄ Willow St.

Elev.	164.68	162.21	161.08	160.54	160.28	160.07	160.29	161.38	163.91
Rod	2.90	5.37	6.50	7.04	7.30	7.51	7.29	6.20	3.67
Dist.	110	60	35	17		17	35	60	110

167.58

167.58

Russell St.

1+00	31.5 Lt. = End N.+S. wall 15.8 Lt. = Start N.+S. 5" wide conc. wall			
0+95				
0+75				
T.P.	8.22	170.98	4.82	162.76
0+50	= ℄ N.+S. picket fence. 22.8 Lt. = End picket fence. Also			
0+44	24' Lt. = Pole # J.P. 3303 + Start E.+W. picket fence			
0+29	22.8 Lt. = ℄ N.+S. 2' high picket fence			
0+26	24' Lt. = Ctr. dead end			
0+25	= 17.9 Lt. = cb. E.C.			
0+18	34.5 Lt. = 8" pine 25' tall			
0+08				
		167.58		

℄

165.76	165.4	165.14	164.1
5.22	5.6	5.84	6.9
31.5	31.5	15.8	15.8
Top of wall	Base of wall	Top of wall	Base wall

165.4	164.9	163.7	162.7	162.6	162.3	162.64
5.16	6.1	7.8	8.3	8.4	8.7	8.34
35	17	13		9	17	17
						cb

163.9	163.9	162.4	162.0	161.5	161.94
7.1	7.1	8.6	9.0	9.5	9.04
35	16	13	170.98	17	17
					cb

163.7	162.7	161.4	161.2	160.9	161.27
4.4	5.4	6.2	6.4	6.7	6.31
35	19	14		17	17
					cb

163.6	162.0	161.0	160.7	160.4	160.87
4.0	5.6	6.6	6.9	7.2	6.76
35	20	13		17	17
					cb E.C.

163.1	161.6	160.8	160.6	160.4	159.8	160.50
4.5	6.0	6.8	7.0	7.2	7.8	7.08
35	20	15		5	20.5	20.5
						cb

167.58

Russell

1+15	Cont.
1+15	18^{9} Lt. = Start 8' wide conc. wall.
1+14	19^{5} Lt. = Water meter box.
1+11	
1+10^{7}	32^{9} Lt. = ℄ 1^{6} wide Conc. ribbon
1+05^{8}	34^{8} Lt. = Conc. ribbon - ℄ 1^{6} Ribbon
1+02	31' Lt. = End same 23.7 Lt. = ℄ 5' wide N. + S. conc. wall
1+01	30^{5} Lt. = ℄ 5" wide N. + S. wall
1+00^{5}	25' Lt. = ℄ N. + S. hedge 2' wide 4' high
	170.98

℄

	166.6 4.4 35	165.9 5.1 19					
165.88 5.10 18^{2} Top wall	165.4 5.6 18.4 Base wall	165.4 5.6 18	163.8 7.2 13	163.5 7.5	163.1 7.9 9	162.8 8.2 17	163.34 7.64 17 cc
166.9 4.1 50	166.2 4.8 35	164.9 6.1 20	163.8 7.2 13	163.3 7.7	163.0 8.0 9	162.7 8.3 17	163.22 7.76 17 cc
168.7 2.3 85 At. garage	166.81 4.17 50	166.21 4.77 34.9					
	166.75 4.23 50	166.08 4.90 34.8					
165.91 5.07 31 Top at wall	165.4 5.6 31 Base wall	165.52 5.46 23.7 Top at wall	164.9 6.1 23.7 Base of wall				
166.78 4.20 50 Top wall	166.44 4.84 35 Top wall	165.9 5.1 35 Base wall	165.87 5.11 30.5 Top wall	165.3 5.7 30.5 Base wall			

170.98

Russell

℄

1+50 Cont.

1+50 17' Rt. = End Comb. Cb.+ walk.

24' Lt. = ℄ 2' wide 5' high N.+S. Hedge
1+49.6 23.8 Lt. = End same
15.2 Lt. = ℄ 1'-wide N.+S. conc. wall

1+49 Cont

1+49 Cont.

1+49 { 23.8 = ~~Start~~ ℄ 5" wide N.+S. Conc. wall.
18.2 Lt. = End 8" wide Conc. wall.
170.98

167.0 / 4.0 / 35

166.3 / 4.7 / 24

165.0 / 6.0 / 35

166.52 / 4.46 / 23.8 on wall

166.34 / 4.64 / 15.3 on wall

165.9 / 5.1 / 15.3 D

165.2 / 5.8 / 13

164.9 / 6.1

164.6 / 6.4 / 9

164.2 / 6.8 / 17

164.75 / 6.23 / Curb 17

164.91 / 6.07 / 23 Back of walk

166.52 / 4.46 / 23.8 Top wall

166.0 / 5.0 / 23.8 Base wall

166.34 / 4.64 / 15.3 top wall

165.8 / 5.2 / 15.3 Base wall

167.3 / 3.7 / 50 Top wall

166.88 / 4.10 / 35 Top wall

166.4 / 4.6 / 35 Base wall

166.53 / 4.45 / 23.8 top wall

166.0 / 5.0 / 23.8 Base wall

166.5 / 4.5 / 23

166.4 / 4.6 / 19

166.41 / 4.57 / 18.3 top of wall

166.0 / 5.0 / 18.3 Base wall

166.2 / 4.8 / 18

165.2 / 5.8 / 13

164.8 / 6.2 / 170.98

164.6 / 6.4 / 9

164.3 / 6.7 / 17

164.43 / 6.55 / 17 on Drive

Russell St

℄

1+63 19² Lt. = Ctr. Water Meter Box

1+62¹ 21⁵ Lt. = Start 9" Wide Comb. Brick + Conc. Ftw wall.

1+62 21⁵ Lt. = End Conc. drive

1+60 22' Rt. = ℄ 8' wide oil drive

1+50⁵ 22' Rt. = ℄ 3' wide - 6' high Hedge

+50² Cont.

1+50² 21⁸ Lt. = Start Conc. Drive

170.98

166.61 / 4.9 / 21.5 Base wall

166.68 / 4.30 / 21.5 Top of wall

166.33 / 4.65 / 21.5

167.00 / 3.98 / 35 on drive

165.0 / 6.0 / 22

165.23 / 5.75 / 60 At. Pan

171.5 / +0.5 / 103 At. garage

167.84 / 3.14 / 50

166.93 / 4.05 / 35

166.27 / 4.71 / 21.8 Start drive

166.1 / 4.8 / 16

165.2 / 5.8 / 13

164.9 / 6.1

164.6 / 6.4 / 9

164.2 / 6.8 / 16

165.8 / 6.2 / 17

165.0 / 6.0 / 35

170.98

Russell

℄

1+66 — 23^5 Rt. = Start 4' high - 2' wide hedge
19^3 Rt. = Ctr. Water Meter Box

+65 Cont.

168.0 / 3.0 / 35	167.5 / 3.5 / 26

1+65

167.40 / 3.58 / 24.8 wall	166.8 / 4.2 / 24	166.5 / 4.5 / 14	165.8 / 5.2 / 11	165.4 / 5.6	165.3 / 5.7 / 9	165.0 / 6.0 / 15	165.4 / 5.6 / 20	165.3 / 5.7 / 35

+64 Cont

167.2 / 3.8 / 35 Grd. East of wall	167.97 / 3.01 / 35 Top of wall

+64 Cont.

166.8 / 4.2 / 35 Base of wall	167.38 / 3.60 / 24.8 top wall	166.1 / 4.9 / 24.8 Base wall	165.23 / 5.75 / 32.5 walk	165.20 / 5.78 / 35 walk	165.23 / 5.75 / 39.8 walk

1+64 — Conc. base (page 11)
24^8 Lt. = start E + W. 8" wide brick wall
24^8 Lt. = ℄ 8" wide brick wall N. + S.
39^8 Rt. = Back edge of same
32^5 Rt. = Start Conc. walk (page 9)

166.7 / 4.3 / 24	166.4 / 4.6 / 14	165.7 / 5.3 / 11	165.4 / 5.6	165.2 / 5.8 / 9	164.8 / 6.2 / 15	165.3 / 5.7 / 20

170.98

170.98

Russell

	35' Lt = start conc. drive				
2+05	34½ Lt = End wall (Page 10- right)				
T.P. = N.E. Cor. Top. of Bottom step. 32' Lt at 2+26	7.31	177.24	1.05	169.93	
2+01	21' Lt = Ctr. water meter box.				
2+00	24' Rt. = ℄ 2' wide 4' high N. + S. Hedge				
	23' Rt. = ℄ 2' wide 4' high hedge				
	Brick + Conc. walls (see page 11)				
2+00	21½ Lt. = Junction 3, 4" wide				
	25' Lt. = ℄ 5' wide walk - Page 11				
1+92.5	21.5 Lt. = ℄ 3' wide walk				
1+90	25' Lt. = End 8" Wide brick & Conc. wall.				
		170.98			

℄

169.07	168.50	168.52	168.1					
8.17	8.74	8.72	9.1					
53	35	34.9	34.9					
Gar. floor	drive	Top wall	Base wall					
			177.24					
168.2	168.54	168.10						
2.18	2.44	2.88						
35	35	21.4						
Base of wall	top wall & dirt	top wall						
167.6	167.9	167.6	167.1	166.8	166.3	166.5	166.4	
3.4	3.1	3.4	3.9	4.2	4.7	4.5	4.6	
21.4	21	16	12		15	22	35	
Base of wall								
168.47	168.29	168.20	167.80					
2.51	2.69	2.78	3.18					
45	35	25	21.5					
168.28		167.3						
2.70		3.7						
25		25						
top of wall		Base of wall						
			170.98					

Russell.

walk.

2+32.5 32 Lt. = west edge 3.5 wide Conc

N.+S. 3.5 wide Conc. walk

2+29 32' Lt. = top of steps, + East edge

+26.5 Cont.

(Page to Rt.)

face of N.+S. wall. at N. End of wall

2+26.5 35' Lt. = End Conc. drive + east

of bottom step.

2+26 32 Lt. = N.E. Cor. walk at bottom

walk at bottom of steps

2+24 32' Lt. = Start 3' wide 2' long E.+W.

177.24

&

173.06 4.18 / 45 walk

171.75 5.49 / 35 walk

171.72 5.52 / 32 walk

170.8 2.4 / 32 Bottom of Footing

173.08 4.16 / 45 on walk

171.76 5.48 / 35 on walk

171.72 5.52 / 32 walk

170.0 7.2 / 32 Bottom Footing

169.07 8.17 / 53 Drive at Cor.

173.14 4.10 / 45 top of wall

172.39 4.85 / 35 top of wall

169.16 8.08 / 35 End Drive at wall

168.9 8.3 / 32 Bottom of Footing

169.20 8.04 / 32 walk

169.12 8.12 / 35 walk at drive

169.12 8.12 / 32 Edge walk

169.3 7.9 / 31 Dri

168.3 8.9 / 13

168.0 9.2

167.6 9.6 / 9

167.5 9.7 / 20

167.1 10.1 / 35

167.0 10.2 / 45

177.24

Russell

2+58 E	34 E Rt. = N.W. Cor. ribbon drive	176.1	172.66	172.36						
		1.1	4.58	4.88						
		114'	38 E	34.6						
		Gar. Floor	Drive	Drive						
2+52	34 E Lt. = N.E. Cor ribbon drive (P-10 Rt.)	176.1	172.70	172.27						
		1.1	4.54	4.97						
		114'	38.7	34.7						
		Gar. Floor	Drive	Drive						
2+50 (2?)	21 E Lt = water meter box	173.4	172.5	171.7	170.4	169.4	168.9	168.8	168.7	168.6
		4.0	4.7	5.5	7.0	7.8	8.3	8.4	8.5	8.6
		50	35	25	12		11	24	35	50
2+49 (2)		173.4	172.5	171.7	170.1	169.3	168.8	168.7	167.9	167.6	167.5
		4.0	4.7	5.5	7.1	7.9	8.4	8.5	9.3	9.6	9.7
		50	35	25	12		11	22	24	35	50
2+46 E	25' Lt. = Pole # J.P. 3369										
	49 E Rt. = ℄ Sing Gar. Conc. Floor										
2+41	23' Rt. = ℄ 8' wide oil drive							167.9	167.7	167.57
								9.3	9.5	9.67
								2.3	35	49.8
								oil	oil	conc
2+36	23 E Rt. = End 2' wide, 4' high, hedge	172.8	171.0	169.8	168.9	168.4	168.0	167.7		
		4.4	5.2	7.4	8.3	8.8	9.2	9.5		
		45	35	22	12		9	35		
2+35										
	177.24				177.24					

Russell St. ℄

Sta.	Notes									
3+10		174.0 3.2 / 50	174.0 3.2 / 35	173.5 3.7 / 25	171.9 5.3 / 15	171.8 5.4	171.5 5.7 / 20	172.0 5.2 / 28	172.2 5.0 / 35	172.3 4.9 / 50
2+99^9	22^4 = ℄ N.+S. picket fence. = Ely line Plum	173.7 3.5 / 50	173.6 3.6 / 35	173.0 4.2 / 22	172.0 5.2 / 17	171.7 5.5	171.2 6.0 / 18	171.7 5.5 / 22	171.7 5.5 / 35	171.9 5.3 / 50
2+98	19^2 Rt. = water Meter box									
2+88	24^1 Rt. = ℄ 3' wide Brick walk with Conc. edge.						171.19 6.05 / 24.1		171.38 5.86 / 35	171.59 5.65 / 45
→2+65	see note below.	172.8 4.4 / 35	172.6 4.6 / 23	172.3 4.9 / 22	171.2 6.0 / 12	170.5 6.7	169.6 7.6 / 16	169.7 7.5 / 25	169.6 7.6 / 35	169.5 7.7 / 45
	17 Conc. (Page 10 right)									
	34^4 Lt. = ℄ Walk - Flagstone set									
2+73	17^8 Lt. = ℄ loose Flag stone walk	173.89 3.35 / 45 ℄ walk	173.01 4.23 / 34.4 ℄ walk	172.2 5.0 / 17.8 ℄ walk						

2+65 This section out of place. should come before walk

177.24

177.24

Russell

19[6] Rt. = Water Meter Box,

0+69 34[8] Rt. = End same

(Page 9)

0+53 35' Rt. = Start. Conc. drive

0+50

0+25

0+12 18[5] Lt. = Fire plug

0+07 20' Rt. = Water meter box

3+69[2] = 0+00 = Wly line plumm.

3+70 24[7] Lt. = Pole # P3401

3+34[9] = ℄ Plumm.

171.96
5.28
34.8
Drive

172.19
5.05
53.3
Gar. Floor

172.04
5.20
35
Drive

172.22
5.02
53.3
Gar. Floor

169.9	170.6	171.9	172.7	172.1	172.4	172.4	172.7
7.3	6.6	5.3	5.0	5.1	4.8	4.8	4.5
60	35	12		17	20	35	50

171.5	172.5	173.1	173.4	172.9	172.8	172.4	172.7	172.7	173.3
5.7	4.7	4.1	3.8	4.3	4.4	4.8	4.5	4.5	3.9
50	35	24	17	12		18	24	35	50

173.7	174.1	173.6	173.0	172.7	172.5	173.0	173.7	
4.0	3.1	3.6	4.2	4.5	4.7	4.2	3.5	
70	35	17	14		15	35	50	

174.4	175.7	173.8	173.0	172.7	172.1	172.0	172.9	173.1	169.0
2.8	2.0	3.4	4.2	5.0	5.1	5.2	4.3	4.1	8.2
100	75	35	19	15		8	35	75	140

177.24

Russell St.

T.P.	3.64	168.32	7.54	164.68	End of wall.
1+85					
1+68	19' Rt. = Water Meter Box				
1+50					
1+05					
T.P.	3.21	172.22	8.23	169.01	
1+01	31' Rt. = ℄ 5' wide - 8' high N. & S. hedge				
1+00					
0+81	Cont.				
0+81	34.8' Rt. = ℄ 3.5' wide conc. walk				

177.24

℄

143.4	152.8	159.7	162.0	163.2	167.0	167.3	168.0	
28.8	19.4	12.5	10.2	9.0	5.2	4.9	4.2	
75	35	7		22	30	35	50	

152.4	159.7	163.7	164.7	165.0	165.9	168.6	169.3
19.8	12.5	8.5	7.5	7.2	6.3	3.6	2.9
75	35	11	7		18	35	50

160.6	166.3	167.3	168.3	168.8	169.3	170.4	170.7	170.4
11.6	5.9	4.9	3.9	3.4	2.9	1.8	1.5	1.8
75	35	18	14		18	25	35	75

172.22

161.0	167.1	167.6	168.6	169.2	169.6	172.3	172.2	
16.2	10.1	9.6	8.6	8.0	7.6	4.9	5.0	
75	35	18	15		17	35	50	

163.4	172.14
13.8	5.10
75	50
	walk

168.2	168.9	169.3	169.9	170.6	170.8	171.4	172.0	172.00
9.0	8.3	7.9	7.3	6.6	6.4	5.8	5.2	5.24
50	35	18	15		16	21	34	34.8
								walk

177.24

Russell, St.

1+95.2 Cont. (on east edge of main drive to garage)

1+95.8 35' Rt. (Page 9) (Shots on drive) = East edge of main driveway

1+95.3 Cont. 27' Rt. = break in driveway grade

1+95.3 = Wty. line Roseville = Δ 0°-01'-30" Rt.

1+92 Cont.

Also 33.5 Lt. = dead man

11.4 Lt. = Pole J.P. 3449 See page 9. Left.

1+92 25.5 Rt. = Start Conc. driveway

168.32

&

						165.80	169.3	
						2.52	+1.0	
						50	106' Gar. Floor	
						167.7	163.3	164.74
						5.60	5.00	3.58
						2.5 and drive end.	26.9 Brk. in Grd.	35.1 start main drive
						163.35	164.52	164.8
						4.97	3.80	3.5
						27.0 Break in Grade	33.8 Edge of drive	35.1 Dirt
143.0	151.7	157.7	161.1	161.3	161.2	161.9	163.0	162.75
25.3	16.6	10.6	7.2	7.0	7.1	6.4	5.3	5.59
75	35	10	4		10	18	25 Dirt	25.1 Edge drive
						164.3	165.0	165.7
						4.0	3.3	2.6
						28	35	50
143.8	152.2	160.8	161.5		161.4	163.0	163.01	
24.5	16.1	2.5	6.8		6.9	5.3	5.31	
75	35	10			9	25	25.5 S.E. Cor Drive	

168.32

RUSSELL St.

BRems &

Check BM #1 Page 8			1291	162.33	(162.32)
T.P.	7.79	175.24	0.87	167.45	

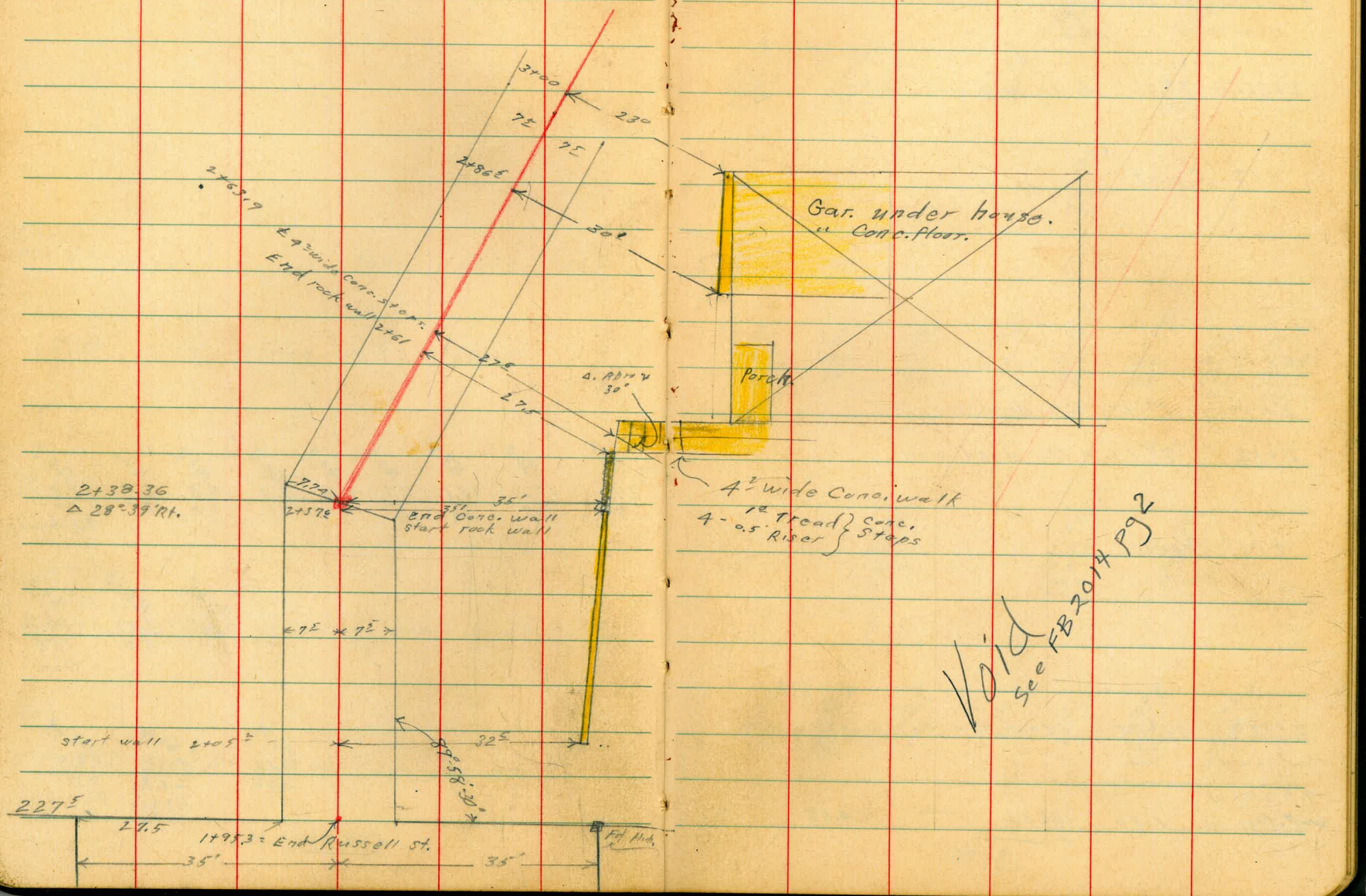
2+05					141.2	150.0	155.2	160.6	160.7	160.4	161.9	164.6	165.5
					27.1	18.3	13.1	7.7	7.6	7.9	6.4	3.7	2.8
					75	35	14	4.		13	24	35	50
													by house
2+04	35' Rt. = W. edge Main drive to Gar										164.65	165.83	169.3
											3.67	2.49	+1.0
											35	50	106
													Gar.
2+03	24½ Rt. = S.W. Cor. drive									162.19	162.90	164.64	
										6.13	5.42	3.68	
										24½	26.3	35	
											Brk in grade	Brk. in Grade	
		168.32						168.32					

Portion Alley Blk 5 Pt. Loma Hgts

Indexed

W.O. # 31163
2-16-48

Semmer Meyer
McCoy
Moore
Sherman



Void
See FB 2014 Pg 2

Por. Alley Blk. 5 Pt. Loma Hgts.

also: Start Rock & Conc. wall.

2+37.6 35' Rt. = End 8" wide Conc. wall.

2+35.39 7± Rt. = Δ in Nly. line Alley.

+18 Cont.

2+18

2+17 9± Lt. = Ctr. deadman

2+12 9± Lt. = Ctr. dead man

+05± Cont.

2+05± 32± Rt. = Start 8" wide Conc. wall

T.P. End of wall. Page 23. 1.56 166.24 — 164.68

158.4 / 8.0 / 35 Base of walls

159.34 / 6.90 / 35 Top of walls

142.8 / 23.4 / 35

150.0 / 16.2 / 7.5

153.6 / 12.6

157.0 / 9.2 / 7.5

163.1 / 3.1 / 35 Dirt

147.5 / 18.7 / 35

154.1 / 12.1 / 10

154.9 / 11.3 / 7±

159.5 / 6.7

159.5 / 6.7 / 7±

159.8 / 6.4 / 23

162.1 / 4.1 / 33.5 dirt

162.86 / 3.38 / 33.5 Top wall

148.1 / 18.1 / 40

164.6 / 1.59 / 32.6 Top of wall.

164.6 / 1.6 / 35 Dirt

154.8 / 11.4 / 15

156.7 / 7.5 / 7.5

160.5 / 5.7 / 3

160.7 / 5.5

161.1 / 5.1 / 22

163.8 / 2.4 / 32.6 Dirt

163.3 / 2.9 / 32.6 Base of wall

166.24

T.P. 3.94 157.15 13.03 153.21

2+63.9 Cont.

of alley line. (P. 26)

Walk runs at about 60° Rt

2+63.9 27.6 Rt. = ℄ 4' wide Conc. steps

2+61 Cont.

2+61 27.5 Rt. = End rock + Conc. wall.

2+41 ~~34~~ 7.5 Rt. = Δ in Nly line alley

2+38.36 = Δ 28° 39' Rt.

166.24

℄

158.04
8.20
35
on ℄ walk

155.4 156.70 157.75
10.8 10.04 8.49
27.6 27.6 31.7
Base of conc. top at Bottom step top at top step

158.9 160.7 161.0
7.3 5.5 5.2
27.5 35 40
top of wall

132.8 140.8 148.1 151.6 154.3 154.6 155.7 155.9
33.4 25.4 18.1 14.7 11.9 11.6 10.5 10.5
50 35 7.5 5 7.5 27.5 27.5
Dirt Base wall

141.6 148.6 152.6 157.0
24.7 17.6 13.6 9.2
35 7.5 7.5

142.1 149.1 152.6 157.0
24.1 17.0 13.4 9.2
35 7.74 7.74

166.24

Orig T.P. P.27			1.15	164.68	(164.68)
T.P.	9.77	165.83	1.09	156.06	
3+60					
3+25					
3+10					
3+00	23' Rt. = End Conc. Apron to double garage Conc. Floor.				
2+86.5	30' Rt. = start Conc. apron to double Gar. Conc. floor				
		157.15			

4

	126.9 30.3 / 35	133.7 23.5 / 75	136.0 21.2	138.4 18.8 / 75	146.9 10.3 / 35		
	131.5 25.7 / 35	140.2 17.0 / 75	141.6 15.6	144.2 13.0 / 75	151.9 5.3 / 28	152.2 5.0 / 35	
	134.1 23.1 / 35	137.8 19.4 / 18	144.0 13.2 / 75	146.3 8.9	153.2 5.0 / 75	153.4 4.8 / 25	
	134.4 22.8 / 35	137.7 19.5 / 23	147.8 9.4 / 75	153.5 4.7	153.6 4.6 / 72	157.9 4.3 / 23	153.92 4.23 / 23 End Apron	153.18 3.97 / 25 Gar Floor
	136.0 21.2 / 35	141.2 16.0 / 18	148.4 8.8 / 75	153.4 3.8	153.3 3.9 / 75	153.3 3.9 / 30	153.25 3.90 / 30.1 Edge Apron	153.37 3.78 / 32.2 Floor of Gar.
			157.15					

PLUM St.

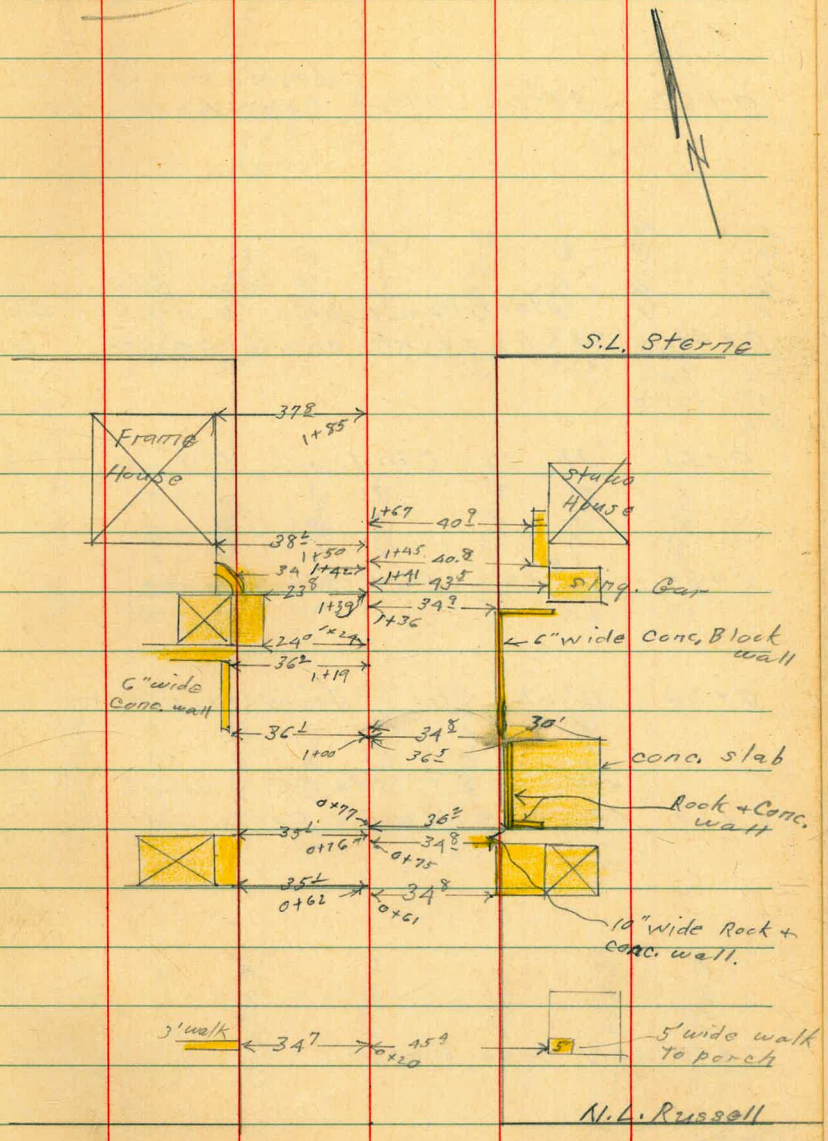
Cross Sec. Russell to Sterne

6-24-48

W.O. 31413

Sommermeyer
W. Moore
L Melton
W Duncan

Indexed ℄ Plum



X-Sec. Plum

Russell to Sterne

Station	Notes	Readings (elev. / rod / offset), left to right (℄ at rod 2.1, 1.5, 1.6, 2.0 readings)
0+62	35^{1} Lt. = start Conc. Apron to double Gar. Conc. floor	173.29 / 1.68 / 39 Gar. Floor; 173.16 / 1.81 / 35^{1} Apron
0+61	34^{8} Rt. = End board fence. Also = start Conc. apron to double Gar. Conc. floor.	173.3 / 1.7 / 35; 173.5 / 1.5 / 25; 173.3 / 1.7 / 15; 172.9 / 2.1; 172.6 / 2.4 / 10; 171.6 / 3.4 / 34^{8}; 171.54 / 3.43 / 34^{8} Apron; 171.61 / 3.36 / 44^{8} Gar Floor
0+53	32′ Lt. = Ctr. trunk 6″ diam tree	
0+39	34^{8} Rt. = start board fence	173.9 / 1.1 / 35; 173.9 / 1.1 / 30; 173.3 / 1.7 / 26; 173.5 / 1.5 / 15; 173.5 / 1.5; 173.2 / 1.8 / 15; 172.3 / 2.7 / 24; 172.1 / 2.9 / 35
0+26	32′ Lt. = Ctr. 6″ Diam. (trunk) tree	
0+20	45^{4} Rt. = ℄ 5′ wide conc. walk; 34^{7} Lt. = ℄ 3′ wide Conc. walk	173.52 / 1.45 / 40 walk; 173.55 / 1.42 / 34^{7} walk; 173.5 / 1.5 / 30; 173.3 / 1.7 / 23; 173.5 / 1.5 / 15; 173.4 / 1.6; 172.1 / 2.9 / 35; 171.81 / 3.16 / 45^{4} walk
0+00	N. Line Russell	173.0 / 20 / 35; 173.1 / 1.9 / 29; 172.8 / 2.2 / 25; 172.9 / 2.1 / 15; 173.0 / 2.0; 172.1 / 2.9 / 15; 172.2 / 2.8 / 27; 171.7 / 3.3 / 35
BM#1 Page 8	12.65 174.97 — 162.32	174.97

Plum

deep East & west.

37' Rt. = start Conc. slab, 30' conc. wall

0+77.5 — 36.2 Rt. = start 6" wide rock & conc. wall

0+77 — 36.2 Rt. = ℄ 6" wide Rock + Conc. wall

0+76 — Cont.

35.2 Lt. = Start board fence. double Gar.

0+76 — 35.1 Lt. = End Conc. Apron to Gar.

0+75 — Cont

34.8 Rt. = start board fence

34.8 Rt. = End Conc. Apron to Doub. Gar.

0+75 — 28' Rt. = ℄ 10" wide E. & W. Rock & conc. wall

174.97

℄

173.27	172.041	172.9	172.0	171.9	171.3	171.1	170.5	170.5		
1,70 / 39 Gar. Floor.	2.13 / 35.1 Apron + Ord.	2,1 / 25	3,0 / 10	3,1	3.7 / 15	3,9 / 27	4,5 / 30	4,5 / 35		
					171.61					
					3,36 / 44.8 Gar. Floor					
172.9	173.0	172.1	171.9	170.4	171.2	171.37				
2.1 / 35	2,0 / 24	2,9 / 15	3,1	4.6 Base wall	3.8 / 28 Top wall + Ord.	3,60 / 34.8 Apron top of wall and Ord.				

174.97

170.6	167.9	168.22	168.2							
4.4 / 36.2 Top wall	7,1 Base wall 36.2	6.75 / 37 Conc Slab	6.8 / 67 Conc Slab							
170.6	168.2	170.7								
4.4 / 36.2 Top wall	6,8 / 36.2 Bottom wall	4.3 / 44.8 Top, End of wall								
170.7										
4.3 / 44										

Plum

1+24 double car. 24 Lt. = start conc. Apron to .

1+22 (36± Lt.) garage (loose laid brick) & opening between wall &

1+20 25 Lt. = End 1' wide Hedge

1+19 36± End Conc block wall.

1+14 34⅝ Lt. = 6" diam tree.

1+09 28 Lt. = 6" diam. trunk tree

1+07 24' Lt. = start 1' wide hedge

1+06 35'-Lt. = 3' High bush

1+00 Cont.

35± Lt. = Start 6" wide conc. block wall
34½ Lt. = End board fence
25' Lt. = ± 2' wide E-W. Hedge/wall
34⅜ Rt. = Start 6" wide conc. Block
34⅝ Rt. = End board fence
37± Rt. = End Conc. Slab.

1+00 36± Rt. = End Rock + conc. wall

0+92 32' Lt. = 4' High bush

174.97

℄

164.88	160.34	167.7	167.3	166.0		
6.09	6.63	7.3	7.7	8.2		
36 Car.	24 Apron		15	34⅝		
	169.5					
	5.5					
	36±					
174.2	168.7	168.4				
0.8	6.3	5.6				
36±	36±	36				
top of wall	Base wall	Ord.				
	174.3	168.8	172.5			
	0.7	6.2	2.5			
	36±	36±	34⅝			
	top wall	Base wall	top of wall			
170.5	170.4	170.4	166.6	166.6	166.2	166.0	167.4
4.5	4.6	4.6	5.2	5.4	5.8	7.0	7.6
36 Ord.	35	25	20		15	34⅝ Ord	34⅝ Base of wall

174.97

Plum

	40[8] Rt. = start 2[5] wide N. + S. walk conc.				
	Now heading west				
1+45	38' Lt. = ℄ gate over walk. walk				
	Aprox mid-curve.				
1+42	34' Lt. = E. edge conc. walk at				
	level conc. floor.				
1+41	43[5] Rt. = ℄ Sing. Gar. No apron.				
1+39[1]	33[3] Lt. = start conc. walk.				
T.P.	9.11	171.43	12.65	162.32	
1+39	23[8] Lt. = End Conc. Apron				
1+36	34[8] Rt. = End Conc. block wall				
		174.97			

℄

	167.98	167.97	168.1	166.18	166.14
	3.45 / 38 on walk at gate	3.46 / 35[5] E. Edge walk	3.3 / 35 Grd	5.25 / 40[8] S.W. cor walk	5.29 / 43[5] S.E. Cor
	168.07	168.11		166.13	
	3.36 / 36[2] W. Edge	3.32 / 34 E. edge		5.30 / 43[5] Floor	
	168.59	168.49			
	2.84 / 35[8] N.E. Cor.	2.94 / 33[2] S.E. Cor.			
			171.43		
	168.85	168.19	167.1	166.6	166.2
	6.12 / 35[2]	6.78 / 23[2] Conc. + Grd	7.9 / 14	8.4 / 15	8.8 / 35
			166.8 8.2	166.3	165.9
				8.7 / 34[8] Grd.	9.1 / 34[8] Base wall
					170.0
					4.2 / 34[8] Top wall
		174.97			

Plum. St.

Orig. B.M. Page 31 9,11 162.32 ✓

1+99 86 = Sly. line Sterne

1+93

1+80

1+71 43 4 = ℄ doorway to house.
40 9 Rt. = ℄ Conc. porch

1+67 start Conc. steps.
40 9 Rt. = End 2' wide conc. walk

1+57

1+54

171.43

		162.9	162.4	163.4	163.4	163.4	165.3	165.8	165.9	
		8.5 / 35	9.0 / 24	8.0		8.0 / 10	6.1 / 34	5.6 / 35	5.5 / 40	
	165.8	165.7	162.9	163.6		163.6	165.1	165.9	166.0	
	5.6 / 35	5.7 / 33	8.5 / 15	7.8		7.8 / 10	6.0 / 34	5.5 / 35	5.4 / 40	
166.4	166.4	166.1	164.1	164.1		164.4	165.4	165.8	166.2	166.2
5.0 / 38 At House	5.0 / 35	5.3 / 27	7.3 / 15	7.3		7.0 / 12	6.0 / 20	5.6 / 33	5.2 / 35	5.2 / 40
						166.3	167.70	168.13		
						5.1 / 40 8 Ord.	3.73 / 40 9 Porch	3.30 / 43 1 House Floor		
						166.36		166.40		
						5.07 / 40.9 E.w. Cor walk		5.03 / 43.4 N.E. Cor. walk		
166.8	166.6	165.8		165.6		165.6	166.2			
4.6 / 35	4.8 / 25	5.6 / 10		5.8		5.8 / 15	5.2 / 25			
167.9	167.9	167.9	166.0	165.8		165.7	166.1			
3.5 / 38 At house	3.5 / 35	3.5 / 25	5.4 / 9	5.6		5.7 / 15	5.3 / 35			

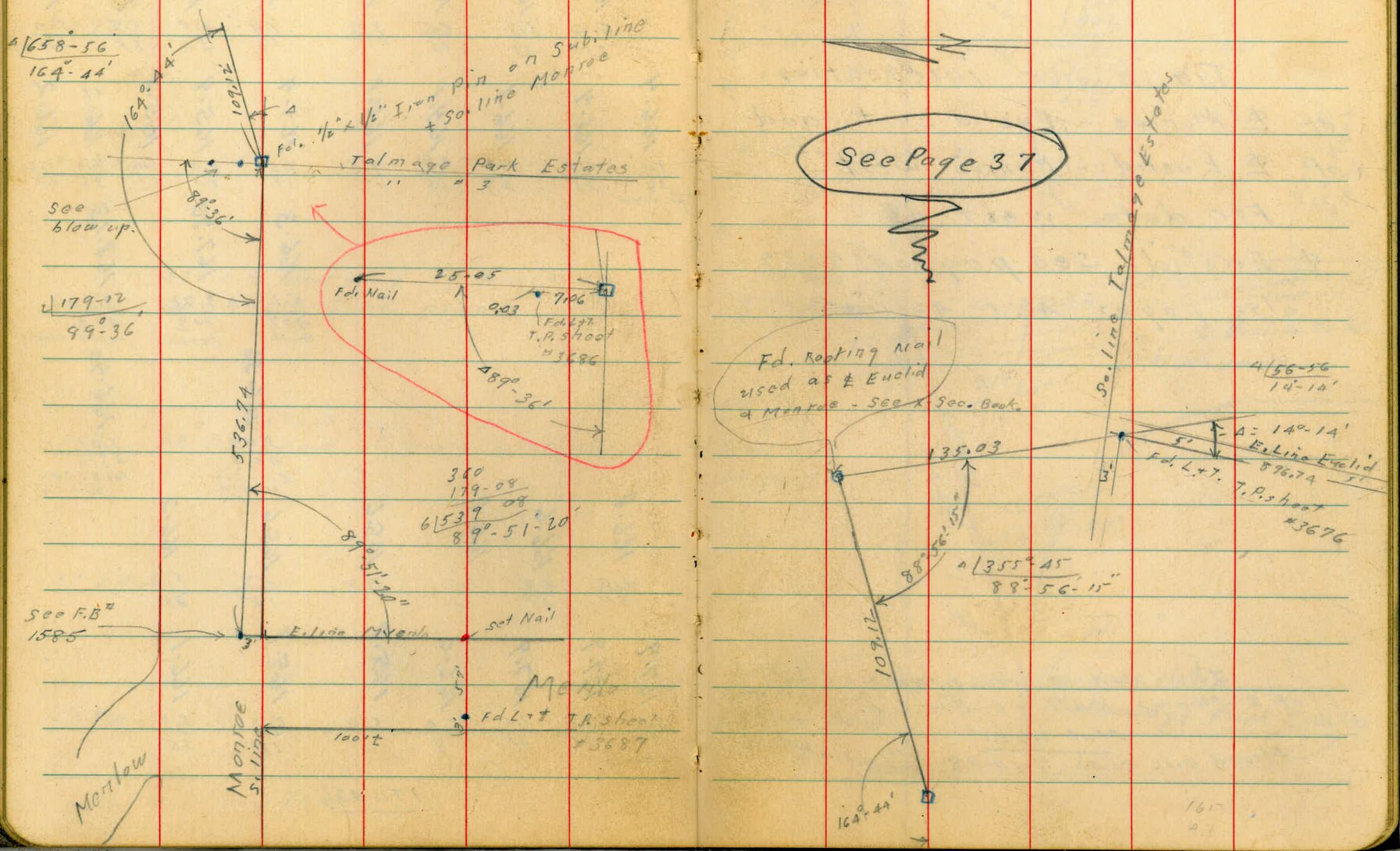
171.43

Ties Talmage Park #3 + Talmage Estates

8-26-48

W.O.# 60264

Sommermeyer
McCoy
W Moore



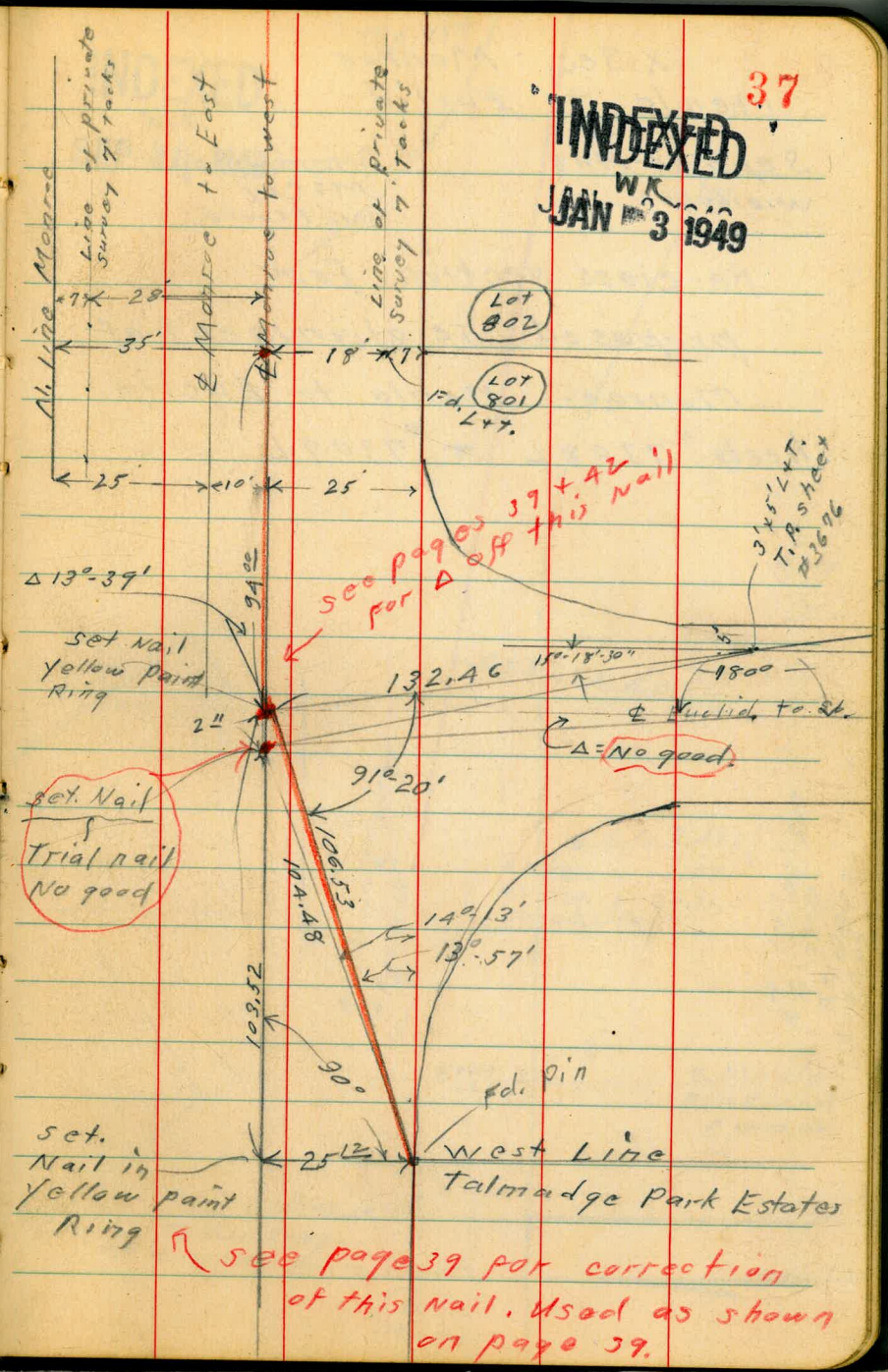
Ties - Euclid + Monroe

9-13-48

Sommermeyer
McCoy
W. Moore

Tie in for intesection
of ℄ Monroe - Euclid east and
of ℄ Euclid - Monroe west
For data west of
℄ Euclid - see pages 38+39.
also pages 40 to 42 incl.

This nail is on production
of ℄ Monroe East of Euclid.
Not used
Moved 0.12 South 9-14-48



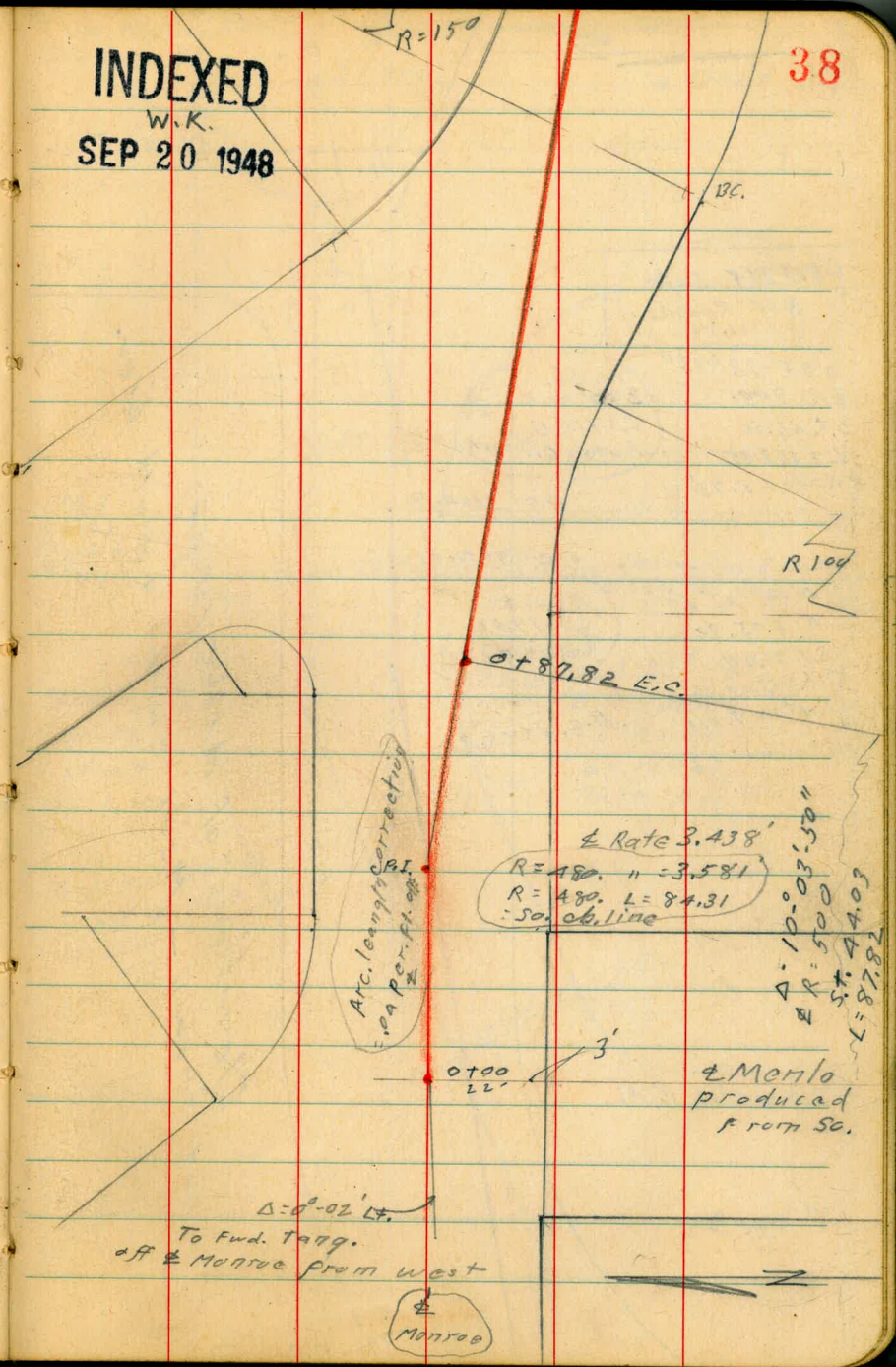
X-Sec. - Monroe
Menlo to Euclid

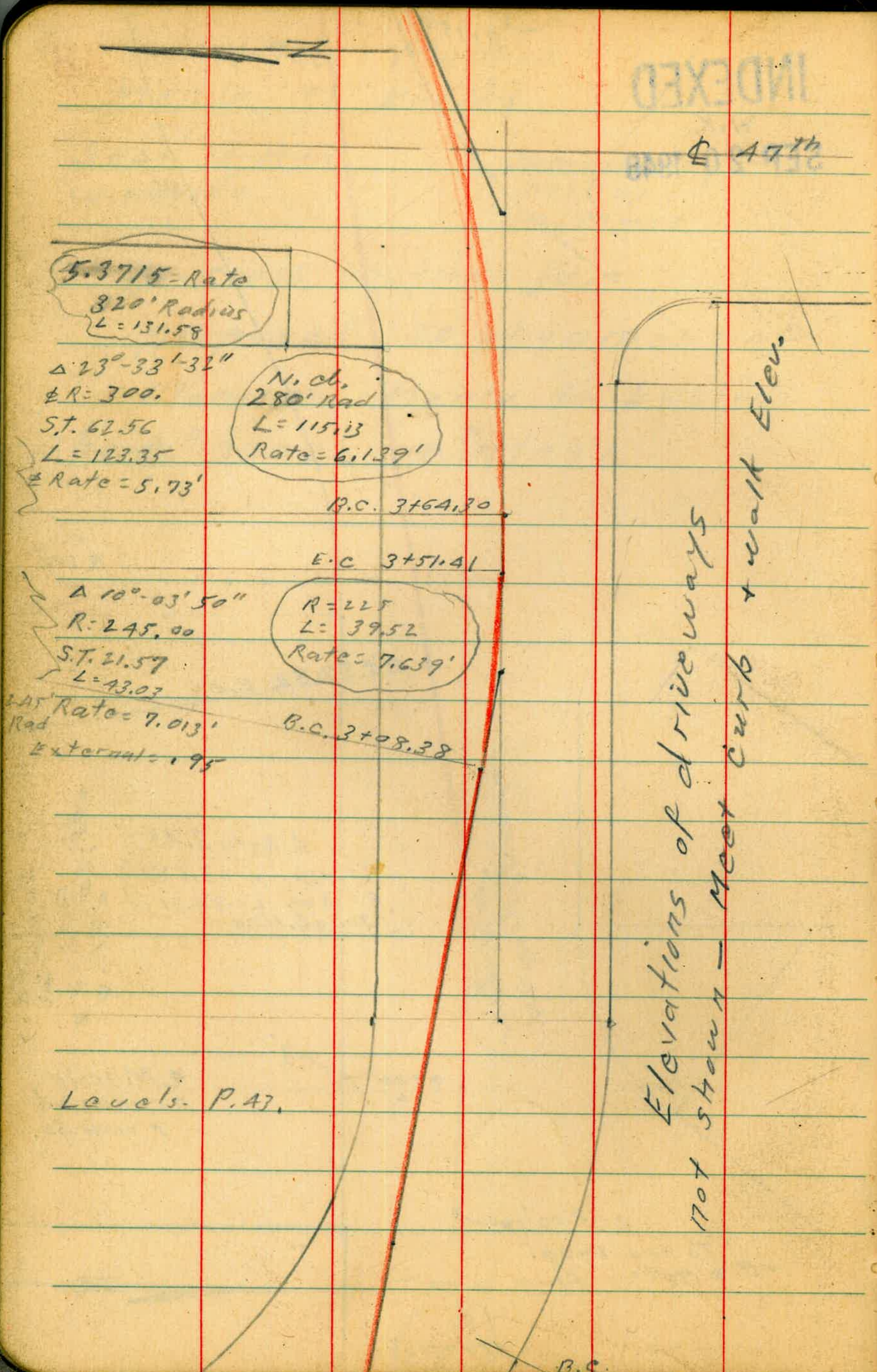
Sept. 10-1948
W.O. 160264

Sommermeyer
M & Co/
Wm. Moore

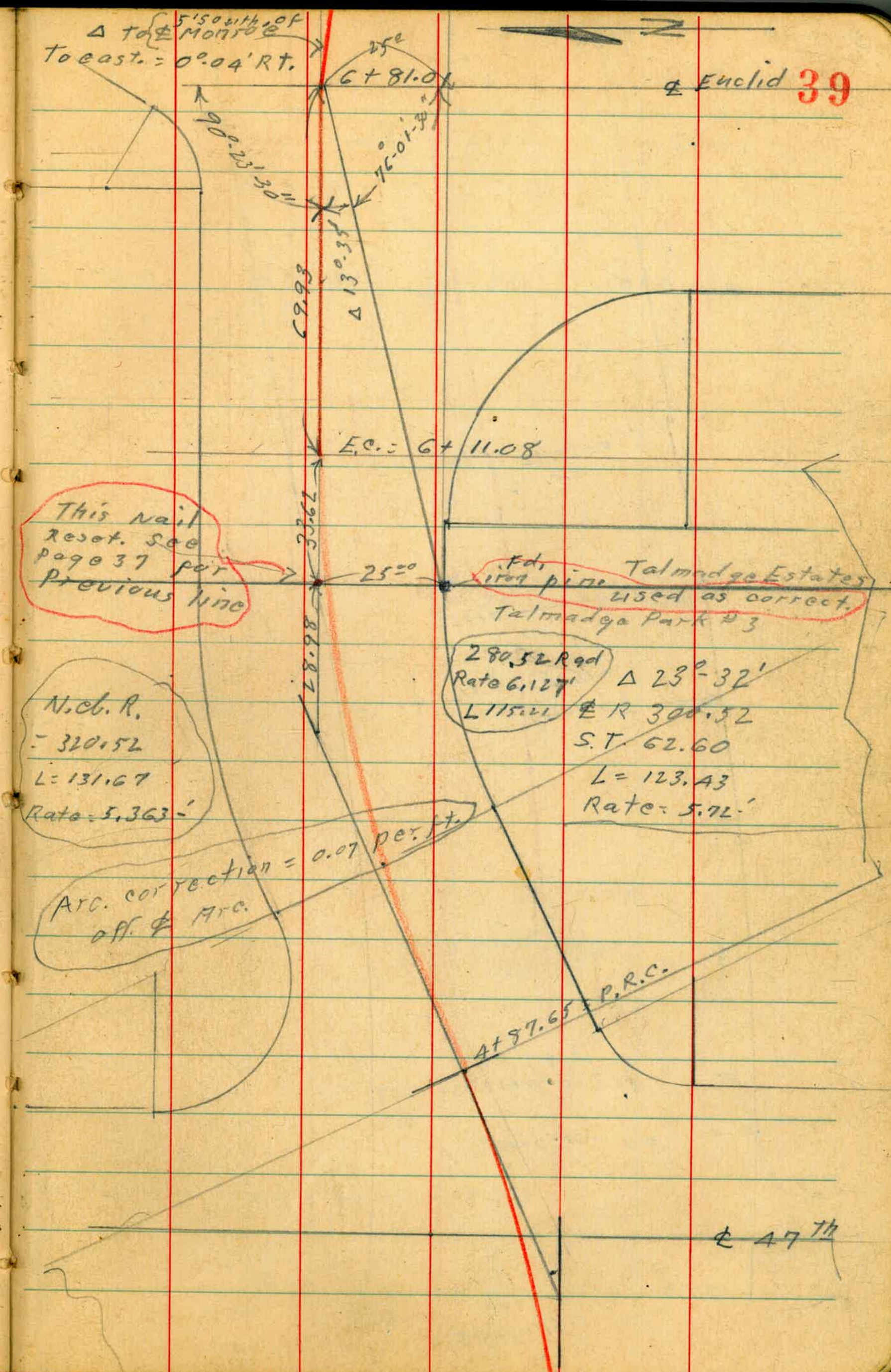
Re-cross section for
proposed re-alignment of
Monroe- Menlo to Euclid
Sheets #7308L + #7309L

INDEXED
W.K.
SEP 20 1948



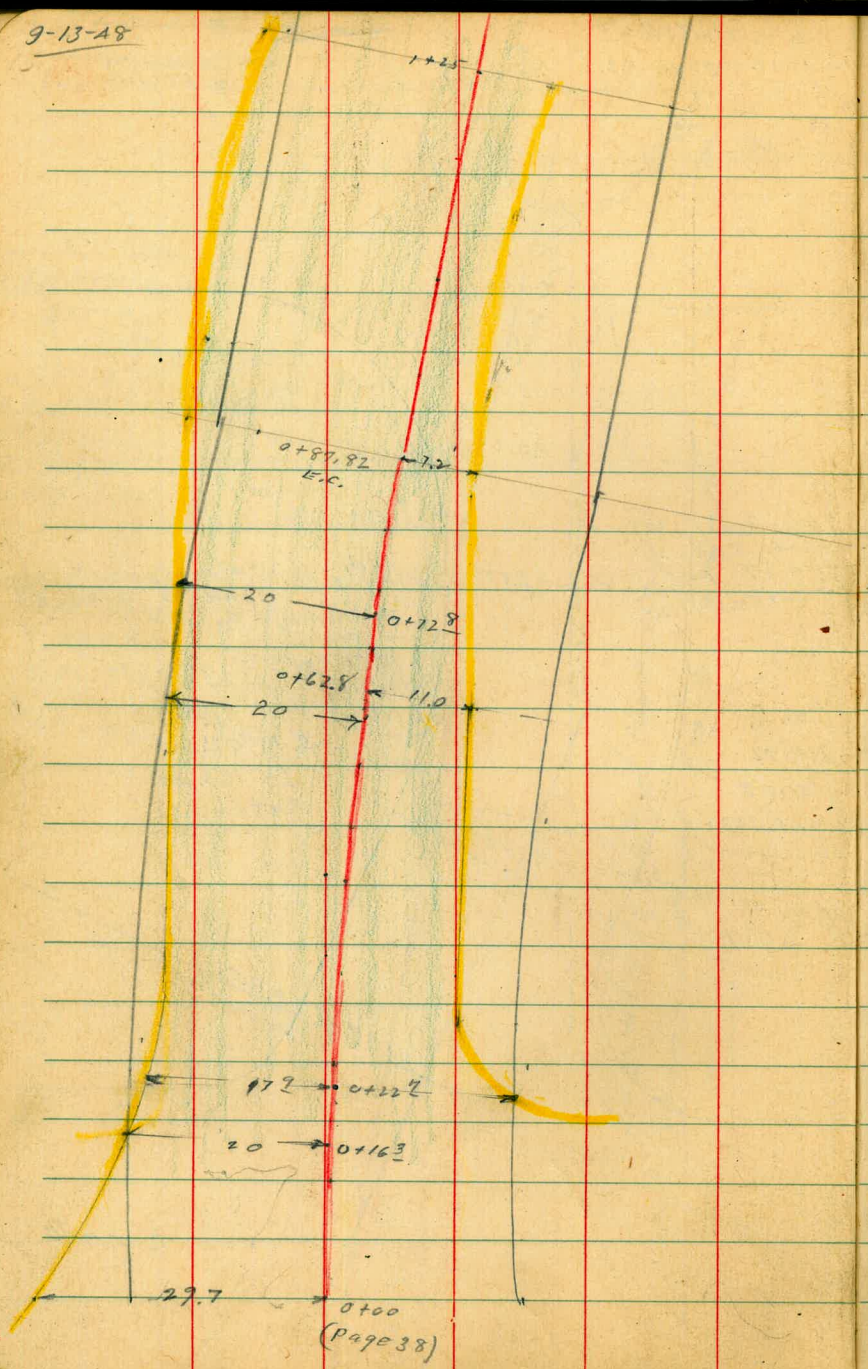


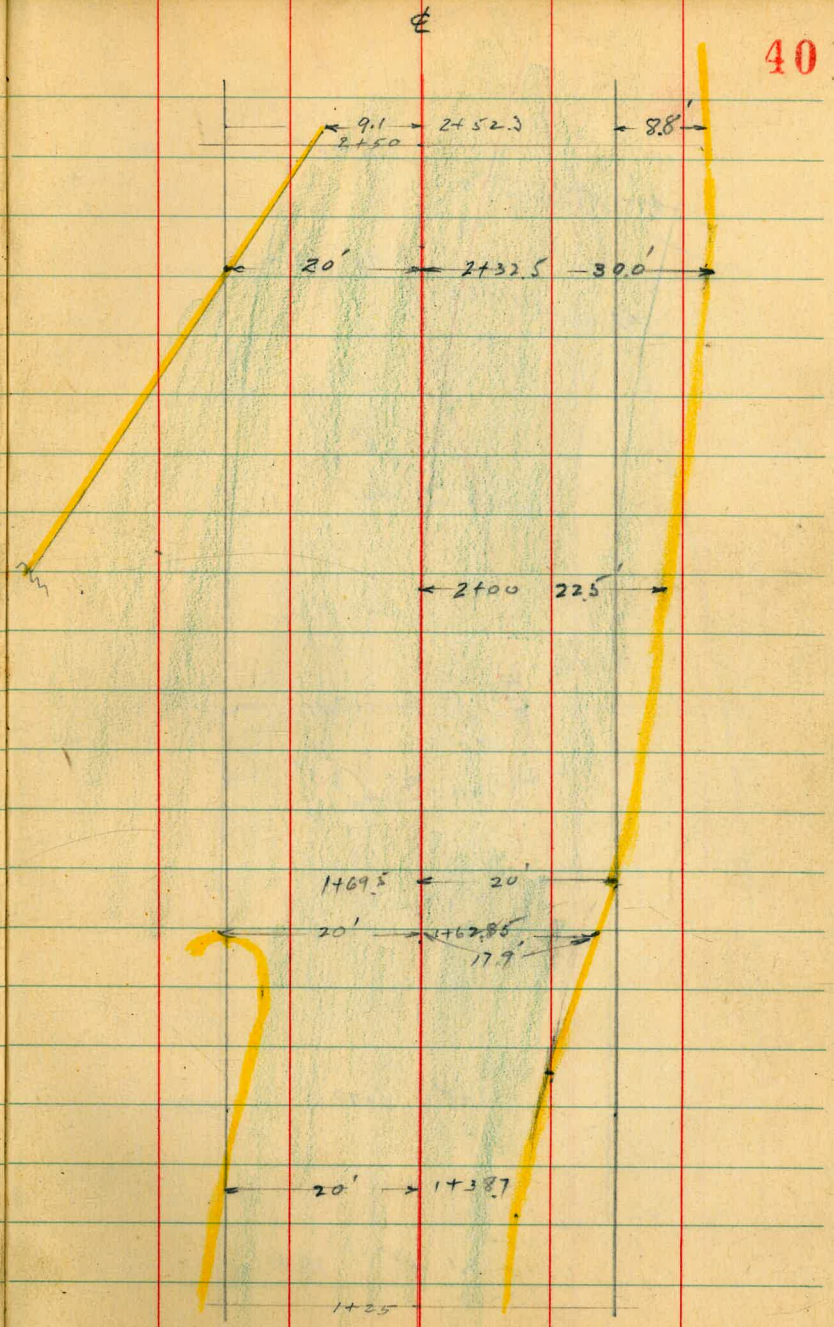
℄ 47th
5.3715 = Rate
320' Radius
L = 131.58
Δ 23°-33'-32"
℄ R = 300.
S.T. 62.56
L = 123.35
℄ Rate = 5.73'
N. cb.
280' Rad
L = 115.13
Rate = 6.139'
B.C. 3+64.30
E.C 3+51.41
Δ 10°-03' 50"
R: 245.00
S.T. 21.57
L = 43.03
245' Rad
Rate = 7.013'
External = .95
R = 225
L = 39.52
Rate = 7.639'
B.C. 3+08.38
Levels. P. 47.
Elevations of driveways
not shown – Meet curb + walk Elev.
B.C.

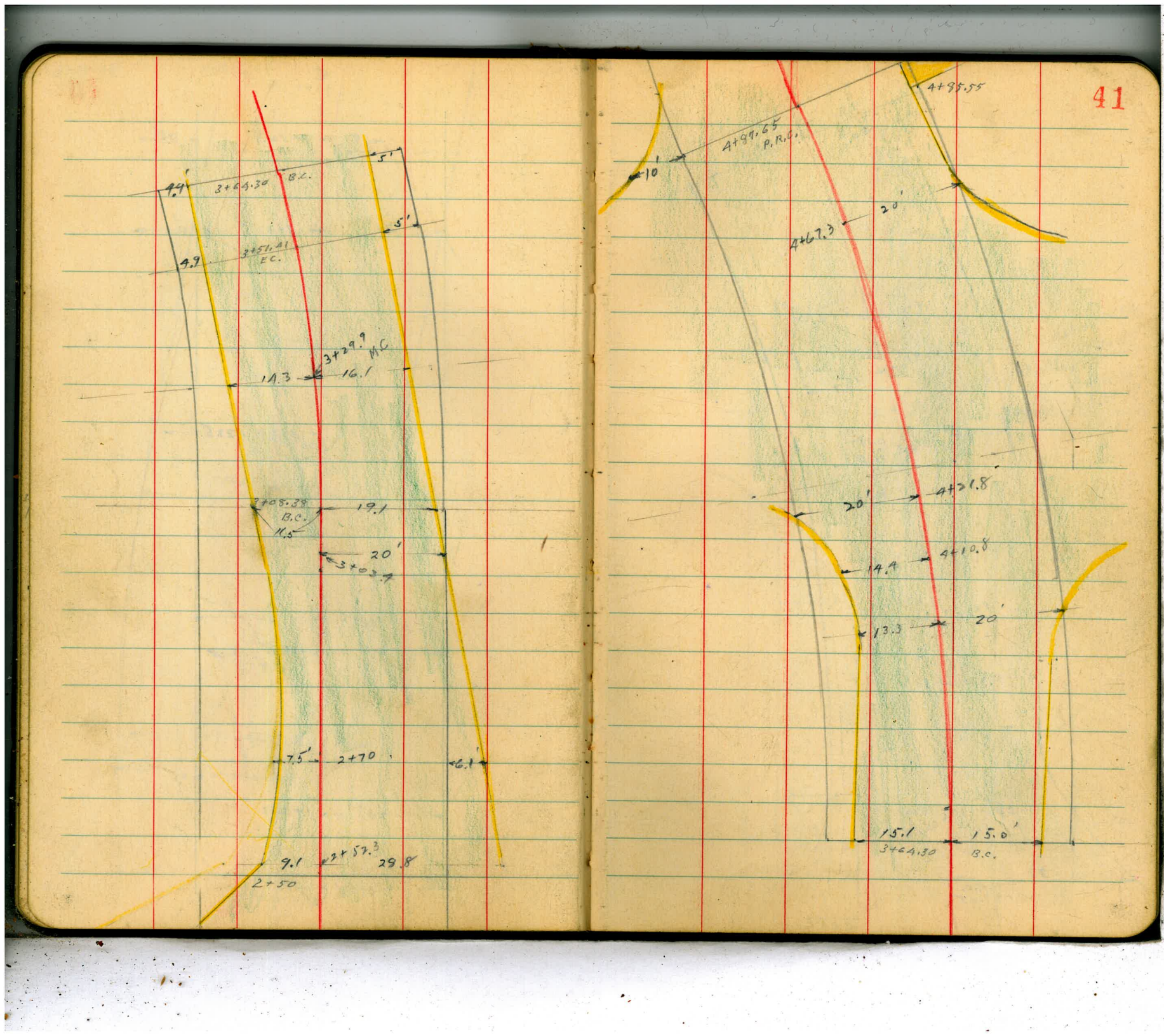


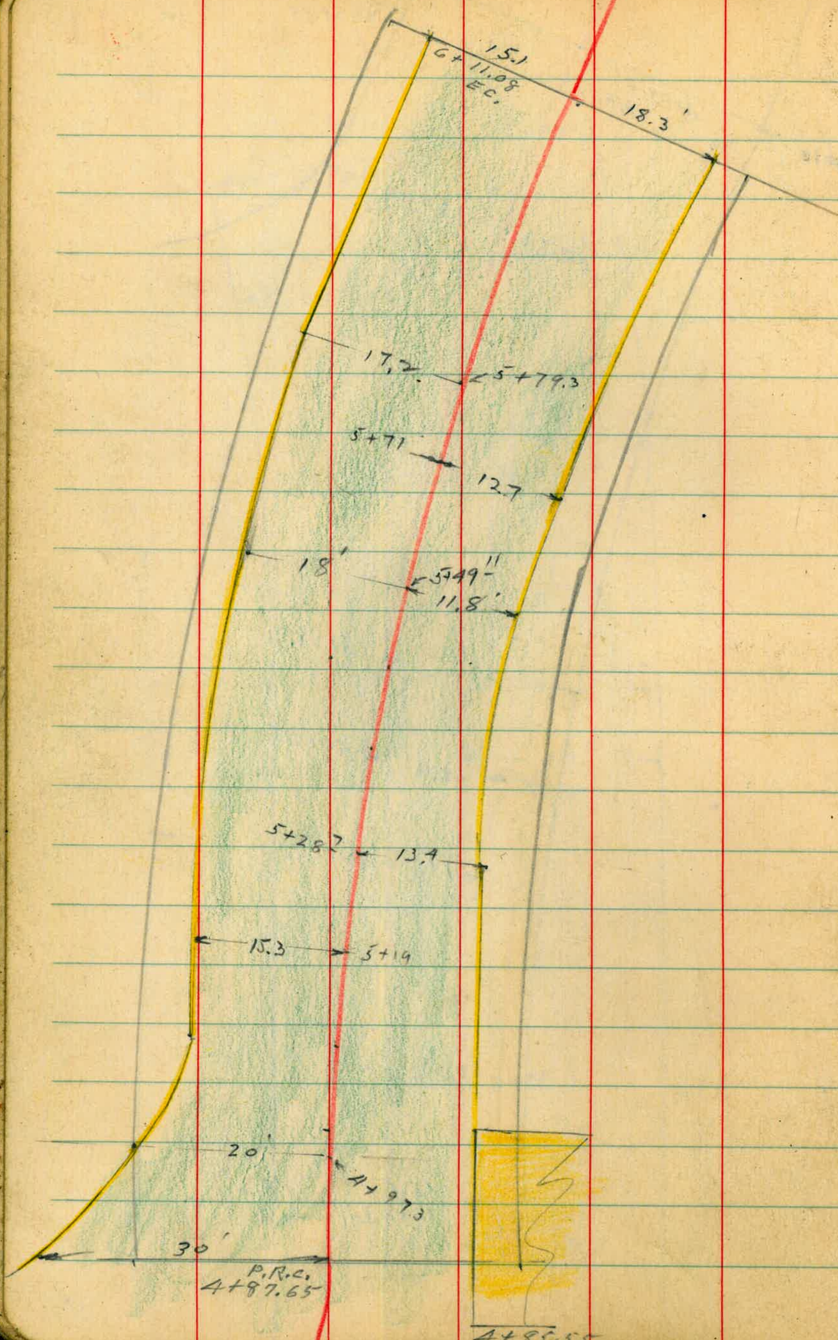
Δ to ℄ Monroe (5' South of) To east. = 0°.04' Rt.
25°
6+81.01
℄ Euclid
90°-23'-30"
76°-01'-30"
69.93
Δ 13°-35'
E.C. = 6+11.08
This nail Reset. See page 37 for Previous line
33.62
25.00
Fd. iron pipe used as correct.
Talmadge Estates
Talmadge Park #3
87.98
280.52 Rad
Rate 6.127'
L 115.21
Δ 23°-32'
℄ R 300.52
S.T. 62.60
L = 123.43
Rate = 5.72'
N. cb. R.
= 320.52
L = 131.67
Rate = 5.363'
Arc. correction = 0.07 per ft. off. ℄ Arc.
4+87.65 = P.R.C.
℄ 47th

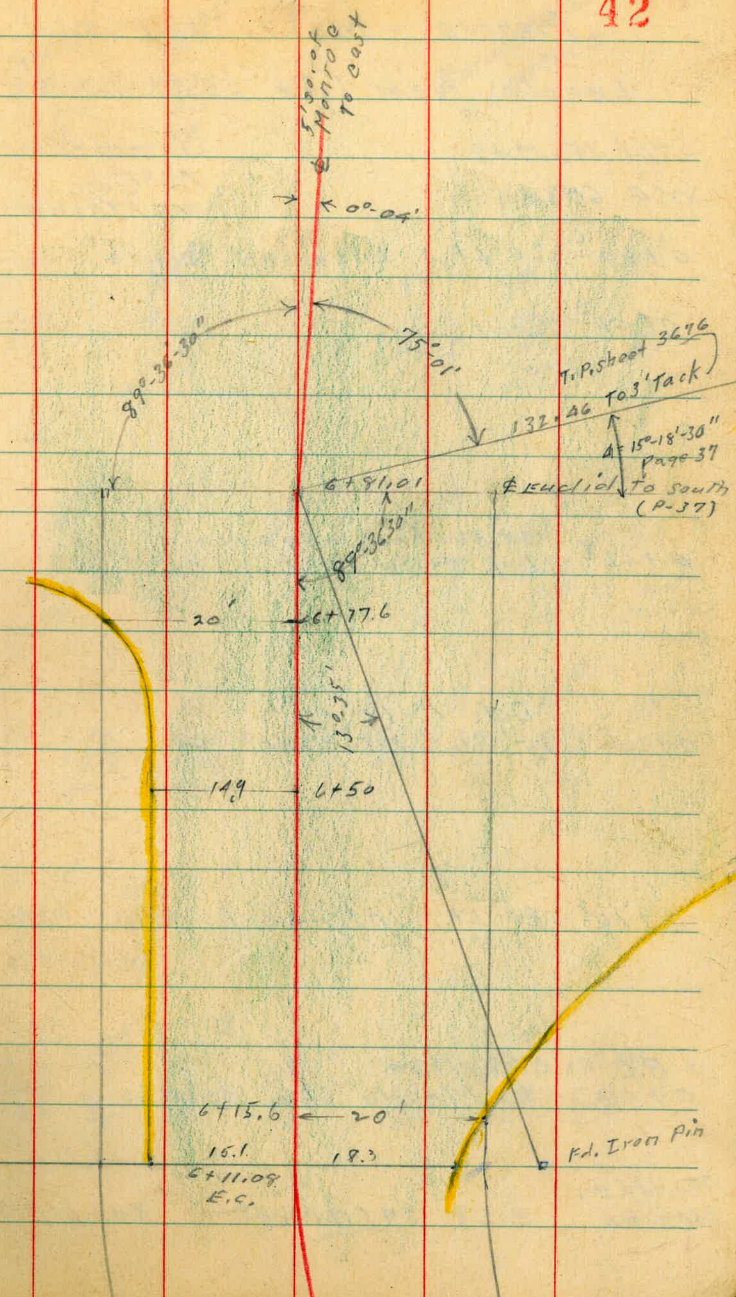
9-13-48


1+25
0+89.82
E.C.
7.2'
20
0+72.8
0+62.8
11.0
20
17.2
0+22.2
20
0+16.3
29.7
0+00
(Page 38)


℄
9.1
2+50
2+52.3
8.8'
20'
2+32.5
30.0'
2+00
22.5'
1+69.5
20'
20'
2+62.85
17.9'
20'
1+38.7
1+25


4+85.55
4+99.65
P.R.C.
10'
4+67.3
20'
4+31.8
20'
4+10.8
14.4
13.3
20'
15.1
15.0'
3+64.30
B.C.
5'
4.9'
3+64.30
B.C.
5'
4.9
3+51.41
E.C.
3+29.9
M.C.
14.3
16.1
3+08.38
B.C.
19.1
11.5
20'
3+03.7
7.5'
2+70
6.1'
9.1
2+57.3
29.8
2+50


15.1
6+11.08
E.C.
18.3'
17.2
5+79.3
5+71
12.7
18'
5+49"
11.8'
5+28.7
13.4
15.3
5+19
20'
4+97.3
30'
P.R.C.
4+87.65
4+85.55


5°30' of Monroe to east
0°-04'
89°-36'-30"
75°-01'
T.P. shoot 3676
132.46 To 3' Tack
15°-18'-30"
Page 37
6+81.01
Euclid
To South
(P-37)
89°-36'30"
20'
6+77.6
13°-35'
14.9
6+50
6+15.6
20'
15.1
18.3
6+11.09
E.C.
Fd. Iron Pin

Monroe - Menlo to Euclid

Levels New line - Sketch 38 Pages 38 to 42

Sept. 15, 1948 — Sammermeyer

W.O. 60264 — McCoy, W. Moore

0+60 — 20' Lt. = Intersect curb

0+62.8 — Cont.

0+62.8 — 20' Rt. = back edge walk. Def. 3°-36' Rt.

0+22 — Def. = 1°-18' Rt. 20' Rt. = Intersect cb.

0+10.3 — 20' Lt. Intersect. cb.

= B.C. Rt. Δ 10°-03'-50" 0+00 = ℄ Menlo to South

Menlo & Monroe — 2.28 — 345.90 — 343.62 — S.E. B.R.

341.50 — 4.10 — 20 — cc

340.94 — 4.96 — 20 — C

℄

Reduced 11-22-48 C. Lawrence

341.9 — 4.0 — 25

341.86 — 4.04 — 24 — Back edge walk

342.7 — 3.2 — 20 — 9

343.5 — 2.40 — 21 — Top wall

344.4 — 1.5 — 25

341.85 — 4.05 — 20

341.83 — 4.07 — 19 — 1 — cc

341.34 — 4.56 — 19.1 — C

342.13 — 3.77

341.99 — 3.91 — 11.0 — C

342.58 — 3.32 — 11.0 — cc

342.71 — 3.19 — 20 — Back of walk

343.50 — 2.4 — 25

343.4 — 2.50 — 20

343.35 — 2.55 — 17.9 — cc

342.76 — 3.14 — 17.9 — C

343.61 — 2.29

343.27 — 2.63 — 15

343.47 — 2.43 — 20 — C

343.94 — 1.96 — 20 — cc

344.2 — 1.7 — 25

343.60 — 2.40 — 20 — cc

342.60 — 3.00 — 20 — C

343.98 — 1.92 — 29.7 — To p. cc.

343.43 — 2.47 — 29.7 — C

343.54 — 2.36 — 20

343.58 — 2.32 — 15

344.10 — 1.80

343.69 — 2.21 — 15

343.81 — 2.09 — 20

344.04 — 1.86 — 25

345.90

Monroe

4

0+95 8 20' Rt = cross east edge wall.

0+94 6 also = face N.+S. wall (cobble + conc)
20' Rt. = East edge, conc. Drive.

0+87 82 Cont.

0+87 82 = E.C.

0+86 4 Def. = 4°-57' Rt.
20' Rt. = intersect w. edge Drive

0+72 8 = End wall on left.

0+71 2 20' Rt. = cross face conc. + cobble wall
Def. = 4°-05' Rt.

342.4'
3.5
20
Top wall

342.18'
3.72
20
Drive

342.3'
3.6
20
Top wall

340.6'
5.3
25

342.03'
3.87
20
in Drive

343.68'
2.22
264
w. edge Drive

340.14'
5.76
225
Cb

339.57'
6.33
225
C

339.73'
6.17
20

340.24'
5.66
12

340.52'
5.38

340.48'
5.42
72
C

340.95'
4.95
112
N.E. walk

341.06'
4.84
164
So. Edge walk

342.03'
3.87
2
Edge drive

341.35'
4.55
204
Cb.

340.85'
5.05
201
C

340.85'
5.05
20

342.2'
3.7
20
Ord.

343.1'
2.76
20
Top wall

343.2'
2.7
21
Ord

345.90

Monroe

Station	Description	Readings (elevation, rod / distance, note)
	Conc. curb wall. Runs. N.+S.	
$1+33^4$	20' Rt. = ℄ 4" wide 8" high	340.3' — 5.6 / 19^5 — ~~End of wall~~ End of wall; 340.3' — 5.6 / 20 — on wall
	20 Rt. = East line walk	
$1+30^6$	19^5 Rt. = N.E. Cor. conc. walk	340.12' — 5.78 / 19^5 — N.E. Cor walk; 340.18' — 5.72 / 20 — E. Edge walk
$1+27^5$	20' Rt. = Cross west line conc. step (intersecon was)	339.70' — 6.20 / 20 — Step; 340.31' — 5.59 / 20^2 — N.W. cor Conc. walk
$1+26^3$	Cont.	336.2' — 9.7 / 25; 336.24' — 9.66 / 22^2 — Cb; 337.92' — 7.98 / 14^5 — Base wall Conc.; 340.0' — 5.9 / 15 — Top wall; 340.3' — 5.6 / 20 — west Face wall; 341.4' — 4.5 / 25
$1+26^3$	15' Lt. = N.E. Cor. conc. wall. Δ in Rock + N.+S. wall 20' Rt. = W. edge Rock + Conc.	335.83' — 10.07 / 22^2 — G; 336.01' — 9.89 / 20; 336.96' — 8.94 / 10; 337.36' — 8.54; 337.40' — 8.50 / 8^3 — G; 337.82' — 8.08 / 8^3 — Cb; 337.82' — 8.08 / 13^2 — Back edge walk

345.90

Monroe

+62.85	Cont.			
+62.85	Cont.			
	at 20' Lt. of ℄ = 5°0' arc = end curb.			
	L of return North of intersection			
	Aldine & Monroe			
1+62.85	20' Lt. = Face curb return N. W.			
T.P.	1.86	336.75	11.01	334.89
1+52.5	20' Rt. = Back edge walk			
1+38.2	Cont.			
1+38.2	20' Lt. = Face curb (intersect)			

345.90

℄

330.58
6.17
25

332.88
3.87
Ob. end
5°N'ly. on
curb arc. from
20' Lt.

330.59
6.16
Pave

333.41
3.34
20
Top
Nose of
Ob. Ret.

334.93
1.82
20

334.95
1.80
231
S. Edge
walk

336.75
0.0
25

331.59
5.16
20
G

332.85
3.90
15

332.78
3.97
13

333.17
3.28
7

334.0
2.75

336.75

334.39
2.36
10

334.41
2.39
179
G

334.92
1.83
179
ob

335.7
10.20
20
walk

335.2
10.7
25

339.5
6.4
20

340.5
5.4
25

335.16
10.74
20
ob

334.75
11.15
20
G

335.68
10.22
10

336.28
9.62

336.39
9.51
108
G

336.86
9.04
108
ob

336.89
9.03
16
Back edge
walk

345.90

Monroe

℄

2+70 Rt. = Ctr. catch basin grate

2+52[3] 9[1] Lt. = Δ in existing cb.

2+42[5] 20 Lt. = Back edge walk

2+32[5] 20 Lt. = Intersect curb.

2+00

1+69[5] 20 Rt. = line exist curb.

336.75

330.25 / 6.5 / 25

329.02 / 7.73 / 12[5] Back of walk

328.94 / 7.81 / 7[5] cb.

328.42 / 8.33 / 7[5] pav

328.63 / 8.12

328.90 / 7.85 / 10

328.45 / 8.30 / 20

328.03 / 8.72 / 24[1] grate

328.88 / 7.87 / 26[1] cb

Back of walk

329.75 / 7.0 / 25

328.72 / 8.03 / 14[5] Back of walk

328.64 / 8.11 / 9[1] cb.

327.80 / 8.95 / 9[1] G

328.48 / 8.27

328.93 / 7.82 / 10

328.89 / 7.86 / 20

328.71 / 8.04 / 28[8] G

329.18 / 7.57 / 28[8] cb

329.01 / 7.74 / 20 walk

329.30 / 7.45 / 25[6] Back of walk

329.19 / 7.56 / 20 cb

328.62 / 8.13 / 20 G

328.73 / 8.02 / 10

329.20 / 7.55

329.60 / 7.15 / 10

329.64 / 7.11 / 20

329.58 / 7.17 / 25

329.48 / 7.27 / 30 G

329.92 / 6.83 / 30 cb

329.88 / 6.87 / 25

330.10 / 6.65 / 20

330.61 / 6.14 / 10

331.13 / 5.62

331.50 / 5.25 / 10

331.55 / 5.20 / 20

331.43 / 5.32 / 25

331.37 / 5.38 / 27[5] G

331.86 / 4.89 / 27[5] cb

333.85 / 2.90 / 20 G

334.39 / 2.36 / 20 cb

336.75

Monroe

3+29² Cont.

From 12⁵ Lt to 14² Lt. Pavement is ramped up to curb top.

3+29² = Mid Curve

T.P.	8.88	340.89	4.74	332.01

3+08³⁸ Cont.

3+08³⁸ B.C. From 10' Lt. to 11⁵ Lt. Pav. is ramped to curb top.

3+03⁴ 20' Rt. = intersect exist. cl.

2+86⁵ 20' Lt. = West line of Conc. Dr.

336.75

℄

331.89' 9.0 / 20 oil Dr.

331.86' 333.86' 7.03 / 19² Back of walk (see pge. 55)

331.16' 9.23 / 21¹ Back of walk

332.69' 8.2 / 25

331.80' 9.09 / 14² cl.

331.38' 9.51 / 12⁵ Pav

331.51' 9.38 / 7

331.41' 9.48

330.99' 9.90 / 10

330.58' 10.31 / 16¹ G

331.03' 9.86 / 16¹ cl.

331.13' 9.76 / 20

340.89

330.85' 5.90 / 20 oil Dr.

330.82' 5.93 / 16⁵ Back of walk

330.71' 6.04 / 11⁵ cl.

330.34' 6.41 / 10

330.42' 6.33

330.08' 6.67 / 10

329.43' 7.32 / 19¹ G

329.88' 6.87 / 19¹ cl.

329.90' 6.85 / 20

330.03' 6.72 / 24² Back of walk

329.19' 7.56 / 20 G

329.69' 7.06 / 20 cl.

329.95 6.80 / 20 Drive

336.75

Monroe

	Oof. 4°.21			walk	
4+10⁸	14⁴ Lt. = curb.		20' Lt. = back edge		
S.E.B.P. 47¹⁵+Monroe	9.44	347.37	2.96	337.93	(337.94)
4+00⁶	20' Rt. = intersect exist. cb.				
$3+64^{30}$ = B.C. left.	Δ 23°-33'-32"				
	25' Lt. = N. Edge oil drive and So. Edge conc. drive				
3+51⁴¹ C.ent.	20' Lt. = So. edge oil drive.				
E.C. $3+51^{41}$ = 0+00 for Aldine line					
		340.89			

℄

336.83 / 10.54 / 20 walk	336.49 / 10.88 / 14⁴	336.00 / 11.37 / 14⁴							
			347.37						
336.59 / 4.3 / 25	335.79 / 5.10 / 18¹ Back walk	335.64 / 5.25 / 13² cb	335.24 / 5.65 / 13² G.	335.38 / 5.51	335.05 / 5.84 / 10	334.85 / 6.04 / 20 G	335.35 / 5.54 / 20 cb	335.68 / 5.21 / 26.2 Back of walk	
333.89 / 7.0 / 25	333.28 / 7.61 / 20' Back walk	333.33 / 7.56 / 15' cb	332.95 / 7.94 / 15' G	333.21 / 7.68 / 8	333.23 / 7.66	332.88 / 8.01 / 8	332.39 / 8.50 / 15 G	332.75 / 8.14 / 15 cb	332.88 / 8.01 / 20 Back walk	333.39 / 7.5 / 25
	332.79 / 8.10 / 25' Edge Conc. Dr.	332.70 / 8.19 / 20' Back of walk		332.34 / 8.55 / 20 Back of walk		333.09 / 7.8 / 25			
332.70 / 8.19 / 15' cb.	332.29 / 8.60 / 15' G	332.53 / 8.36 / 8	332.53 / 8.36	332.22 / 8.67 / 8	331.78 / 9.11 / 15 G	332.25 / 8.64 / 15 cb			
			340.89						

Monroe

Station	Notes								
4+97[3]	Def. 0°-55' X Exist. Ch. to Lt.	341.88 5.49 / 20 Cl	341.39 5.98 / 20 G	℄					
	P.R.C. Cont.	341.21 6.16 / 30 Cl	340.78 6.59 / 30 G		340.36 7.01 / 21.9 walk	340.41 6.96 / 26.9 Back of walk			
4+87[65]	= P.R.C.	340.68 6.69 / 25	340.66 6.71 / 20	340.56 6.81 / 10	340.45 6.92	340.23 7.14 / 10	339.96 7.41 / 17.9 G	340.16 7.21 / 17.9 drive	340.27 7.10 / 20
4+85[55]	parking lot ℄ Def. = 11°-35' 20' Rt. cross w. line drive to				340.20 7.17 / 20	340.20 7.17 / 27 Back of walk			
4+67[3]	20' Rt. = Curb. Def. 9°-50'				337.89 9.48 / 20 G	338.25 9.12 Cl / 20			
4+55	8°-39'	339.04 8.33 / 25	338.96 8.41 / 20	338.73 8.64 / 10	338.43 8.94	338.08 9.29 / 10	337.55 9.82 / 20	337.40 9.97 / 25	
4+21[8]	Def. 5°-29' 20' Lt. = curb.	337.75 9.62 / 27 Edge walk	337.29 10.08 / Cl	336.80 10.57 / 20 G	336.67 10.70 / 10	336.61 10.76	336.30 11.07 / 10	335.65 11.72 / 20	336.12 11.25 / 25

347.37

347.37

Monroe

5+19.12 Cont.

Def. 3'-03'

So. edge walk

5+19.12 23.9 Rt. = W. edge ramp +

5+11.95 20' Rt. = intersect N. edge walk

5+06.5 E. edge drive

5+05.1 Cont.

5+05.1 Def. 1.2 40' in drive

34737

343.73 — 3.64 — 241 — W. edge walk

343.61 — 3.76 — 20

343.59 — 3.78 — 193 — S. walk

343.49 — 3.88 — 182 — N. walk

343.49 — 3.88 — 20

343.51 — 3.86 — 239 — So. E walk

345.02 — 2.35 — 30 — Off Ramp

343.59 — 3.78 — 153 — Ø

343.07 — 4.30 — 152 — G

343.15 — 4.22 — 10

343.20 — 4.17

343.07 — 4.30 — 10

342.98 — 4.39 — 148 — Ø

343.05 — 4.32 — 148 — Drive

342.75 — 4.62 — 20 — walk

342.16 — 5.21 — 20 — Edge Dr.

342.05 — 5.32 — 202 — Edge walk

342.05 — 5.32 — 254 — Back walk

341.54 — 5.83 — 16.5 — Ø

341.58 — 5.79 — 16.6 — Drive

341.96 — 5.41 — 20

347.37

Monroe

5+71.05	Cont.			
5+71.05	Def. 8°-00			
	10.05	357.10	0.32	347.05
5+49.11	Cont.			
5+49.11	33' Rt. = W. End door to store			
	Cont.			
	IN ramp. Def. = 3°-58			
5+28.74	22.6 Rt. = S. Edge walk. = step up			
	347.37			

4

348.58	348.04	347.89	347.26	350.36	347.07	
8.72	9.06	9.21	9.84	6.74	10.03	
26	21	20	23	35	35	
N. edge walk.	S. edge walk		of west of radial on store ramp	W. face wall	at door to store	
				28 west of radial		
347.60	347.52	347.78	347.87	347.60	348.24	348.40
9.50	9.58	9.32	9.23	9.50	8.86	8.70
17	17	10		12	12	20
Drive	C				CC	

348.46	349.15					
8.64	7.85					
22	23					
S. Edge walk	Top wall					

357.10

346.43	346.34	346.40	347.06	
0.93	1.03	0.97	0.31	
27	22	20	33	
N. Edge walk	S. E walk	S. E walk N. Edge ramp	Ramp at store door.	

346.27	346.23	345.61	345.82	345.94	345.78	346.30	346.39
1.1	1.14	1.70	1.55	1.43	1.59	1.07	0.98
20	18	18	10		11	11	20
	Cl.	C			C	CC	

344.46	345.18	345.94		
2.91	2.19	1.43		
22	28	29		
walk + ramps	West Ramp	East ramp		
		18 west of radial		
343.95	344.12	344.46		
3.42	3.25	2.91		
13	13	17		
C	Drive	N. Edge walk		

347.37

S.E.B.P. Monroe & Euclid

Monroe

1.60 355.50 (355.48)

22' Lt. = curb.

6+81⁰¹ = ℄ Euclid to south

6+77⁶ 20' Lt. = curb.

6+50

6+15⁶ 20' Rt. = curb.

6+11⁰⁸ = E.C. Def. = 11°-46'

+79² Cont.

5+79² Def. 8°-44'

357.10

℄

354.35 / 2.75 / 22' cb.
353.94 / 3.16 / 22' G
353.78 / 3.32 / 10
353.65 / 3.45
353.44 / 3.66 / 10
353.31 / 3.79 / 25

354.13 / 2.97 / 20 cb.
353.67 / 3.43 / 20 G

353.13 / 3.97 / 24.9 N. Edge walk
353.00 / 4.10 / 15 cb.
352.56 / 4.54 / 15 G
352.65 / 4.45 / 10
352.62 / 4.48
352.39 / 4.71 / 10
352.28 / 4.82 / 20
352.18 / 4.92 / 25

5.48 / 20 cb. — 6.10 / G / 20 → Rt.

351.00 Gutter
351.62 cb

351.34 / 5.76 / 25 N. Edge walk
351.32 / 5.78 / 20
351.29 / 5.81 / 15' cb
350.76 / 6.34 / 15' G
350.90 / 6.20 / 10
351.00 / 6.10
350.84 / 6.26 / 10
350.82 / 6.28 / 18' G
351.35 / 5.75 / 18' cb
351.38 / 5.72 / 29
351.61 / 5.49 / 29 S. Edge walk

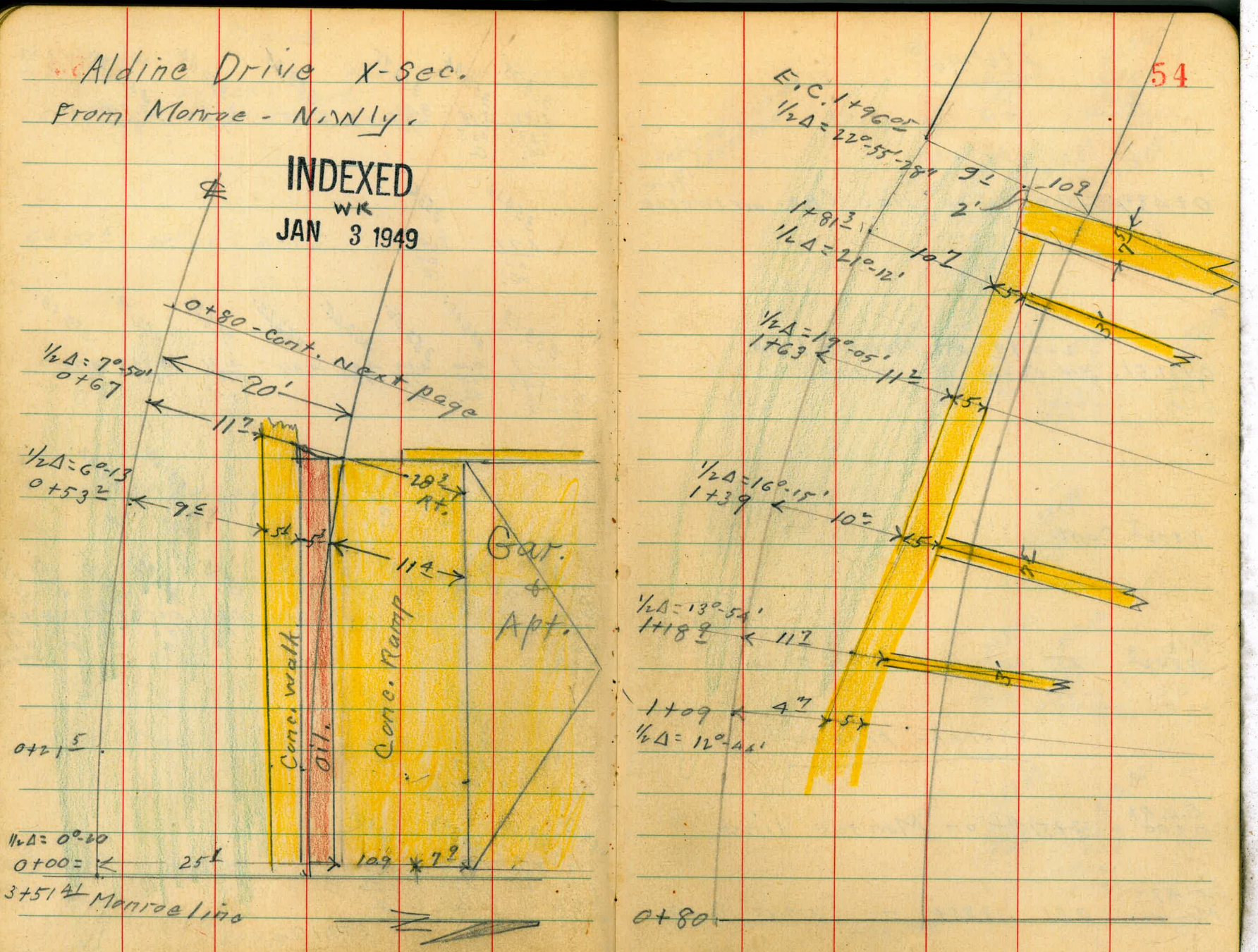
348.45 / 8.65 / 32' at Garage.
348.50 / 8.60 / 30

349.13 / 7.97 / 26' N. Edge walk
349.00 / 8.10 / 20
348.93 / 8.17 / 17' cb
348.29 / 8.81 / 17' G

357.10

Aldine Drive X-Sec.

From Monroe - N.W'ly.



Aldine

0+43^03 = B.C. Monroe line = B.C. on Monroe line

0+21.51 = 2+29^9 on Monroe line
Mid. curve Monroe line

0+02^8 Cont.

0+02^8 25^L Rt. = Start Conc. Drive.

Sketch - page 54

B.C. Rt. = 0+00 = 3+51^41 on Monroe line

S.E. 47 & Monroe 0.61 338.54 — 337.93 P. 49

Reduced 11-22-48
C. Lawrence

℄

331.62 / 6.92 / 33 / Conc.

331.78 / 6.76 / 40^7 / Gas. Floor

330.42 / 330.34 / 10 ramp

330.83 / 7.71 / 16^5 / Edge walk / 11^5 330.71

330.85 / 7.67 / 20 / oil.

330.87 / 7.67 / 21^8 / End oil start Conc.

331.41

331.87 / 6.67 / 19^L / oil

331.87 / 6.67 / 20

331.89 / 6.65 / 24^3 / End oil Start Conc.

331.59 / 6.95 / 35^5 / Conc

331.79 / 6.75 / 43^9 / Gar. floor

332.60 / 5.94 / 20 / walk.

332.62 / 5.92 / 25^L / End oil start Conc.

331.62 / 6.92 / 36 / Conc.

332.53

332.69 / 5.85 / 20

332.80 / 5.74 / 25^L / Conc step

338.54

Aldine Dr.

drive about radial.

1+39 — 20' Rt. = ℄ 7½ wide Conc. Dr.

1+18½ — 20' Rt. = ℄ 3' wide Conc. walk

1+09

0+67 — Of. oil. 20' Rt. = End Conc. Apron
11½ Rt. = Back of walk also = End

0+53½ — 20' Rt. = Edge Conc. Apron

℄

329.83	329.47	329.13	329.78	329.78	330.29
8.71 / 16	9.07	9.41 / 10 / ℄ Drive	8.82 / 15½ / ℄ Dr.	8.76 / 20 / ℄ Dr.	8.25 / 30 / ℄ Dr.
	328.47	329.04	329.18	329.52	330.38
	10.07 / 6½ / ℄	9.50 / 6½ / ℄	9.36 / 11½ / walk	9.02 / 20 / walk ℄	8.16 / 30 / walk
328.25	328.16	328.83	328.94	329.64	329.74
10.29	10.38 / 4½ / ℄	9.71 / 4½ / ℄	9.60 / 9½ / Back walk	8.9 / 20	8.8 / 30
	329.57	330.13	331.52		331.79
	8.97 / 11½ / walk + oil	8.41 / 20 / Conc	7.02 / 28½	6.75 / 36½ / Gar. Floor.	
	330.34	330.39	331.55		331.77
	8.20 / 14½ / Edge walk	8.15 / 20 / Conc.	6.99 / 31½ / Conc.	6.77 / 39½ / Gar. Floor	
338.54					

Aldine Dr.

T.P.	0.86	322.23	12.90	321.37
2+70				
2+40		E.P. = edge paving		
1+96 05	= E.C.	20' Rt. = N. edge 7' conc. drive		
1+94	10' Rt. = N.W. cor. conc. drive			
1+81 3	± 3' wide walk on Rt.			
T.P. Back edge end of walk	4.30	334.27	8.57	329.97
1+63				

&

325.87
8.4 / 35

322.90
11.37 / 318 E.P.

323.63
10.64 / 16

323.63
10.64 / 10

323.09
11.18

322.80
11.47 / 5 E.A

325.17
9.1 / 15

325.57
8.7 / 20

325.87
8.4 / 30

329.67
4.6 / 35

326.04
8.23 / 29 E.P.

326.60
7.67 / 16

326.23
8.04

326.01
8.26 / 4 E.P.

327.07
7.2 / 8

327.47
6.8 / 20

327.67
6.6 / 30

334.27
0.0 / 28

329.84
4.43 / 21 Edge pave

329.90
4.37 / 16

329.96
4.31 / 7

329.80
4.47

329.56
4.71 / 9 Edge Pave

329.67
4.6 / 10

330.14
4.13 / 20 Drive

330.39
3.88 / 30 Drive

329.65
4.62 / 10

334.29
1.98 / 25

330.02
3.53 / 16

330.61
3.66 / 6

330.33
3.94

329.67
4.60 / 10 ± G

329.84
4.43 / 10 ± ab

329.93
4.34 / 15 ±

330.05
4.22 / 30

330.32
3.95 / 30

334.27

332.03
6.51 / 25

331.17
7.37 / 16

330.13
8.41

329.43
9.11 / 11 ± Q

329.78
8.76 / 11 ± ab

329.78
8.76 / 16 ± walk

330.54
8.0 / 30

338.54

Aldine Dr.

N.W. Cor. Aldine + Monroe
has very bad turn as built.

Check - Top of Curb and. 20' Lt 1+62.85 page 46			1.26	332.88 (332.87)
T.P.	12.77	334.14	0.86	321.37
4+00				
3+50				
+34	422' Sta. Prop. ℄ - Holly 24" Conc. Culvert			
3+00				

322.23

℄

332.63	310.76	310.88	311.22	311.62	312.23	312.16	313.03	313.03	299.23
+10.4	11.47	11.40	11.01	10.61	10.00	10.07	9.2	9.2	23.0
27	18	16	8		14	17	20	26	48
top of cut.	E.P.					E.P.			Bottom of wash

320.63	314.98	315.38	315.80	316.00	316.00	315.83	316.63	316.63	300.53
1.6	7.25	6.85	6.43	6.23	6.23	6.40	5.6	5.6	21.7
30	25	16	8		9	115	14	20	40
	E.P.					EP			Bottom of wash

322.53	319.97	320.36	320.49	320.23	319.71	323.23	324.23	
+0.3	2.26	1.87	1.74	2.00	2.52	+1.0	+2.0	
35	34	16	7		6	20	30	
	E.P.				E.P.			

322.23

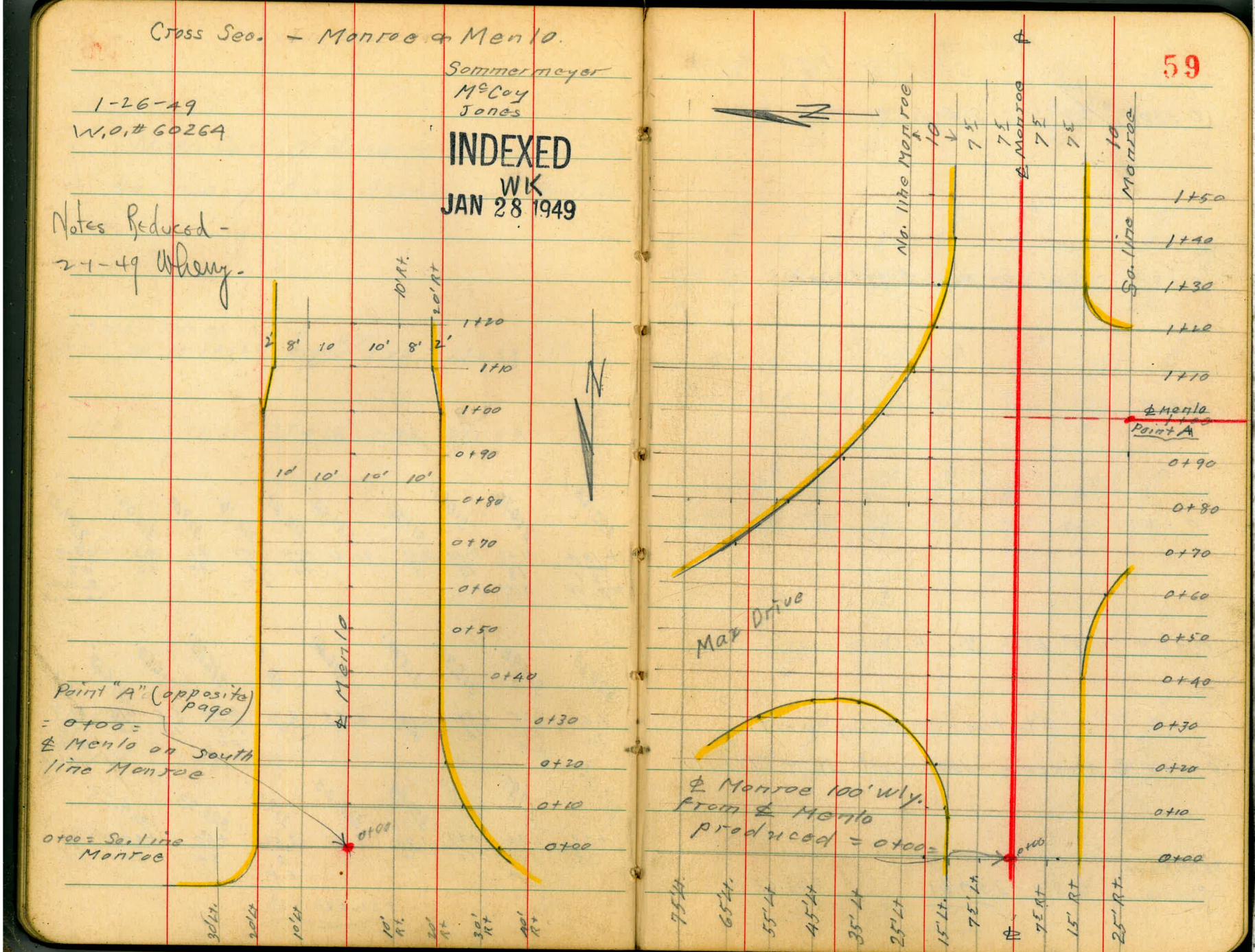
Cross Sec. – Monroe & Menlo.

Sommermeyer
McCoy
Jones

1-26-49
W.O.# 60264

INDEXED
WK
JAN 28 1949

Notes Reduced –
2-1-49 Wheary.



Monroe

Sketch - P.59 - Right

0+30 Cont'd 59' Lt. = S. Wly. Cl. Max Drive

0+30 26' Lt. = Nly Cl. Monroe

0+20

0+10

0+08 15' Lt. = Cl. B.C.

Stations running east.

0+00 = ℄ Monroe - 100' west of ℄ Menlo

S.E. B.P. Menlo & Monroe 6.39 350.01 343.62

345.32 345.25 345.79 ℄
4.69 4.76 4.22
65 59 59
G Cl

345.77 345.15 345.16 345.14 345.36 345.45 345.24 345.88 345.50
4.24 4.86 4.85 4.87 4.65 4.56 4.73 5.13 4.51
26 26 25 15 75 75 15 15
Cl G G G Cl

345.91 345.31 345.34 345.59 345.67 345.50 345.08 345.64
4.10 4.70 4.67 4.42 4.34 4.51 4.93 4.37
17 18 15 75 75 15 15
Cl. G G Cl

346.11 345.58 345.58 345.83 345.88 345.71 345.34 345.91
3.90 4.43 4.43 4.18 4.13 4.30 4.67 4.10
15 15 15 75 75 15 15
Cl G G Cl

346.13 345.63
3.88 4.38
15 15
Cl G

346.34 345.84 346.07 346.10 345.95 345.56 346.14
3.67 4.17 3.94 3.91 4.06 4.45 3.89
15 15 75 75 15 15
Cl G Cl

350.01

Monroe

0+50 Coont.

0+50

0+40 Comt.

0+40 15' Rt. = Cb. B.C. Rt.

0+35.4 45' Lt. = Face N.Wly. Return.

0+34.6 35' Lt. = Face N.W.ly. return

350.01

&

345.17 / 4.84 / 65

345.06 / 4.95 / 55

344.87 / 5.14 / 45

344.73 / 5.28 / 35

344.75 / 5.26 / 25

344.80 / 5.21 / 15

344.97 / 5.04 / 7E

345.01 / 5.00

344.84 / 5.17 / 7E

344.52 / 5.49 / 15

344.49 / 5.52 / 15 G

345.23 / 4.78 / 16 Cb

345.33 / 4.68 / 65

345.05 / 4.96 / 55

344.91 / 5.10 / 45

344.84 / 5.17 / 35

344.91 / 5.07 / 25

344.95 / 5.06 / 15

345.15 / 4.86 / 7E

345.23 / 4.78

345.05 / 4.96 / 7E

344.69 / 5.32 / 15 G

345.31 / 4.70 / 15 Cb

345.73 / 4.28 / 45 Cb

345.09 / 4.92 / 45 G

345.68 / 4.33 / 35 Cb

345.04 / 4.97 / 35 G

350.01

Monroe

0+80 Cont. 53± Lt. = face N. Ely Return

0+80

0+70 Cont.

0+70

0+60 Cont.

0+60

350.01

&

344.64 — 5.37 — 53± Q

344.09 — 5.92 — 53± Q

344.18 — 5.83 — 45

344.26 — 5.75 — 35

344.29 — 5.72 — 25

344.15 — 5.86 — 15

344.47 — 5.59 — 75

344.46 — 5.55

344.27 — 5.74 — 75

343.95 — 6.06 — 15

Drive — 64± Q

344.31 — 5.70 — 64± C

344.50 — 5.51 — 55

344.60 — 5.41 — 45

344.61 — 5.40 — 35

344.48 — 5.53 — 25

344.44 — 5.57 — 15

344.64 — 5.39 — 75

344.62 — 5.37

344.44 — 5.57 — 75

344.10 — 5.91 — 15

344.81 — 5.20 — 65

344.97 — 5.09 — 55

344.87 — 5.14 — 45

344.69 — 5.32 — 35

344.50 — 5.51 — 25

344.65 — 5.36 — 15

344.79 — 5.22 — 75

344.82 — 5.17

344.63 — 5.38 — 75

344.34 — 5.67 — 15

344.35 — 5.66 — 20 C

345.17 — 4.89 — 20 Cl

350.01

Monroe

1+30 15' Rt. = cl. E.C.
~~15' Rt. = "~~ 15⁸ Lt. = cl. face

1+20 18⁴ Lt. = cl. face.

1+10 23⁼ Lt. = cl. face

29⁵ Lt. = face cl.
1+00 = ℄ Monroe + ℄ Menlo

0+90 Cont.

0+90 39⁵ Lt. = face cl.

350.01

℄

63

343.15	342.58	342.61	343.14	343.46	343.30	343.12	343.73
6.86	7.43	7.40	6.87	6.55	6.65	6.87	6.28
15⁸	15⁸	15	7⁵	Mat Hole	7⁵	15	15
cl	C					C	cl

343.45	342.88	342.99	343.45	343.69	343.59	343.34
6.56	7.13	7.02	6.56	6.32	6.42	6.67
18⁴	18⁴	15	7⁵		7⁵	15
cl	C					

343.69	343.19	343.29	343.73	343.91	343.79	343.59
6.32	6.82	6.72	6.28	6.10	6.22	6.42
23⁼	23⁼	15	7⁵		7⁵	15
cl	C					

343.97	343.43	343.47	343.58	343.98	344.10	343.95	343.69
6.04	6.58	6.54	6.43	6.03	5.91	6.06	6.32
29⁵	29⁵	25	15	7⁵		7⁵	15
cl	C						

344.30	343.71
5.71	6.30
39⁵	39⁵
cl	C

343.80	343.90	343.95	344.20	344.28	344.11	343.81
6.21	6.11	6.16	5.81	5.73	5.90	6.20
35	25	15	7⁵		7⁵	15

350.01

Monroe - Also Menlo

sketch - P. 59 - left.

0+10 25' Rt = face Cl.

0+10

20' Lt. = Cl. E.C.
33' Rt. = face Cl.

0+00 on Menlo line = ℄ Menlo and 50. line Monroe.

End of Monroe Base line

T.P. 7.60 351.22 6.39 343.62

1+50

1+40 15' Lt. = Cl. E.C.

350.01

℄

344.57 343.94 344.31 344.50 344.60 344.65 344.66 345.27

6.71/20 Cl | 7.28/20 G | 6.91/10 | 6.72 | 6.62/10 | 6.57/20 | 6.56/25 C° | 5.95/25 Cl

344.13 343.61 343.89 344.05 344.14 344.38 344.40 344.40 345.14

7.09/20 Cl | 7.61/20 G | 7.33/10 | 7.17 | 7.08/10 | 6.94/20 | 6.82/30 | 6.92/33 G | 6.08/33 Cl

351.22

342.03 342.40 342.69 342.64 342.47 343.06

Drive/15 Cl | 7.98/15 G | 7.61/7.5 | 7.32 | 7.37/7.5 | 7.54/15 G | 6.95/15 Cl

342.79 342.33 342.81 343.09 343.03 342.81 343.40

7.22/15 Cl | 7.68/15 G | 7.20/7.5 | 6.92 | 6.98/7.5 | 7.20/15 G | 6.61/15 Cl

350.01

Menlo

		347.21	346.63	346.92	347.00	347.01	346.74	347.26
		4.01 / 20 / CL	4.59 / 20	4.30 / 10	4.14	4.21 / 10	4.48 / 20 / C	3.96 / 20 / CL
0+70								
		346.76	346.14	346.56	346.69	346.61	346.31	346.89
		4.46 / 20 / CL	5.08 / 20 / C	4.66 / 10	4.53	4.61 / 10	4.91 / 20 / C	4.33 / 20 / CL
0+60								
		346.30	345.70	346.08	346.25	346.18	345.91	346.53
		4.92 / 20 / CL	5.52 / 20 / C	5.14 / 10	4.97	5.04 / 10	5.31 / 20 / C	4.69 / 20 / CL
0+50								
		345.85	345.30	345.60	345.86	345.78	345.57	346.15
		5.37 / 20 / CL	5.92 / 20 / C	5.62 / 10	5.36	5.44 / 10	5.65 / 20 / C	5.07 / 20 / CL
0+40								
		345.40	344.86	345.10	345.47	345.40	345.27	345.81
		5.82 / 20 / CL	6.36 / 20 / C	6.02 / 10	5.80	5.82 / 10	6.00 / 20 / C	5.41 / 20 / CL
0+30	20' Rt. = CL. E.C.							
		344.93	344.38	344.76	344.96	345.01	344.93	344.92	345.51
		6.29 / 20 / CL	6.84 / 20 / C	6.46 / 10	6.26	6.21 / 10	6.29 / 20	6.30 / 21 / C	5.71 / 21 / CL
0+20	21' Rt. = face CL.							

351.22

351.22

Menlo

S.E.B.A.
Menlo + Monroe — 7,60 343.62 — orig B.M.

1+20

1+10 — 18' Rt. / 18' Lt. } = Δ in ob. lines
change in roadway width, following sections to show

1+00 — 20' Lt. / 20' Rt. } Δ in ob. lines

0+90

0+80

351.22

℄

348.53	347.84	348.07	348.11	348.01	347.79	348.36
2.69 / 18 / ob	3.38 / 18 / C	3.15 / 9	3.11	3.21 / 9	3.43 / 18 / ob.	2.86 / 18 / ob
348.48	347.84	348.05	348.05	347.97	347.77	
2.74 / 18 / ob.	3.38 / 18 / C	3.17 / 9	3.17	3.25 / 9	3.45 / 18 / C.	Drive / 18 / ob
349.03	347.75	347.93	348.09	347.98	347.71	348.29
2.19 / 20 / ob	3.47 / 20 / C	3.29 / 10	3.13	3.24 / 10	3.51 / 20 / C	2.93 / 20 / ob
	347.41	347.70	347.85	347.76	347.46	
Drive / 20 / ob	3.81 / 20 / C	3.52 / 10	3.37	3.46 / 10	3.76 / 20 / C	Drive / 20 / ob
347.63	347.06	347.37	347.47	347.39	347.12	347.64
3.59 / 20 / ob	4.16 / 20 / C	3.85 / 10	3.75	3.87 / 10	4.10 / 20 / C	3.58 / 20 / ob

351.22

Additional Notes
(orig. P. 59 to 66)

0-10 Cont.

0-10

0-20 Cont

0-20

0+30 Cont.

T.P. = Top of Cl.

(See P. 59 for stationing)

0-30

7.19 350.81 ~~T.C.~~ 343.62

346.61
4.20
112
T.C

346.02
4.79
112
C

346.12
4.69
110

346.39
4.42
100

346.27
4.54
90

346.00
4.81
808
C

346.59
4.22
808
T.C.

Nail
Drive
115

346.26
4.55
115
C

346.38
4.43
110

346.54
4.27
100

346.38
4.43
90

346.19
4.62
836
C

346.79
4.02
836
T.C.

347.01
3.80
1172
T.C.

346.97
4.44
1172
C

346.59
4.22
110

346.64
4.17
100

346.45
4.36
90

346.39
4.42
862
C

346.96
3.85
862
top Cl.

350.81

0+10 Cont

0+10

0+00 Cont.

0+00

0-5$\frac{3}{}$ 110$\frac{6}{}$ Lt. = Aprox Cl. B.C. on No

on So.

0-07$\frac{7}{}$ 80' Lt. = top. Cb. = Aprox Cl. B.C.

346.24' 345.69' 346.43'
4.57 5.12 4.38
105$\frac{2}{}$ 105$\frac{2}{}$ 100
T.C G

346.07' 345.88' 345.66' 346.22'
4.74 4.98 5.15 4.59
90 80 73 73
G T.C.

346.43' 345.88' 346.11'
4.38 4.93 4.70
109$\frac{2}{}$ 109$\frac{2}{}$ 100
T.C. G

346.16' 345.91' 345.89 346.41'
4.65 4.90 4.98 4.40
90 80 77$\frac{2}{}$ 77$\frac{2}{}$
G T.C.

346.53' 345.98'
4.28 4.83
110$\frac{2}{}$ 110$\frac{2}{}$
T.C G

346.96' 346.54'
4.85 4.27
80 80
G. T.C.

350.81

0+60		345.16 5.65 74± T.O.	344.61 6.20 74± G	344.95 5.86 70
0+50		345.46 5.35 83± Cc	344.80 6.01 83± G	344.92 5.89 80
				345.19 5.62 70
0+40		345.03 5.18 90 T.C.	345.03 5.78 90 G	345.28 5.53 80
				345.38 5.43 70
0+30		345.27 5.54 96 in drive	345.42 5.39 90	345.57 5.24 80
				345.45 5.36 70
0+20	Cont	346.01 4.80 101± T.C	345.46 5.35 101± G	345.52 5.29 100
				345.79 5.02 70
0+20		345.78 5.03 80	345.54 5.27 70	345.46 5.35 67± G
				346.01 4.80 67± T.C

350.81

Russell Street from Willow Street to S.E'ly Line of Point Loma Heights

Johnson
Pope
Crawford
3-29-49

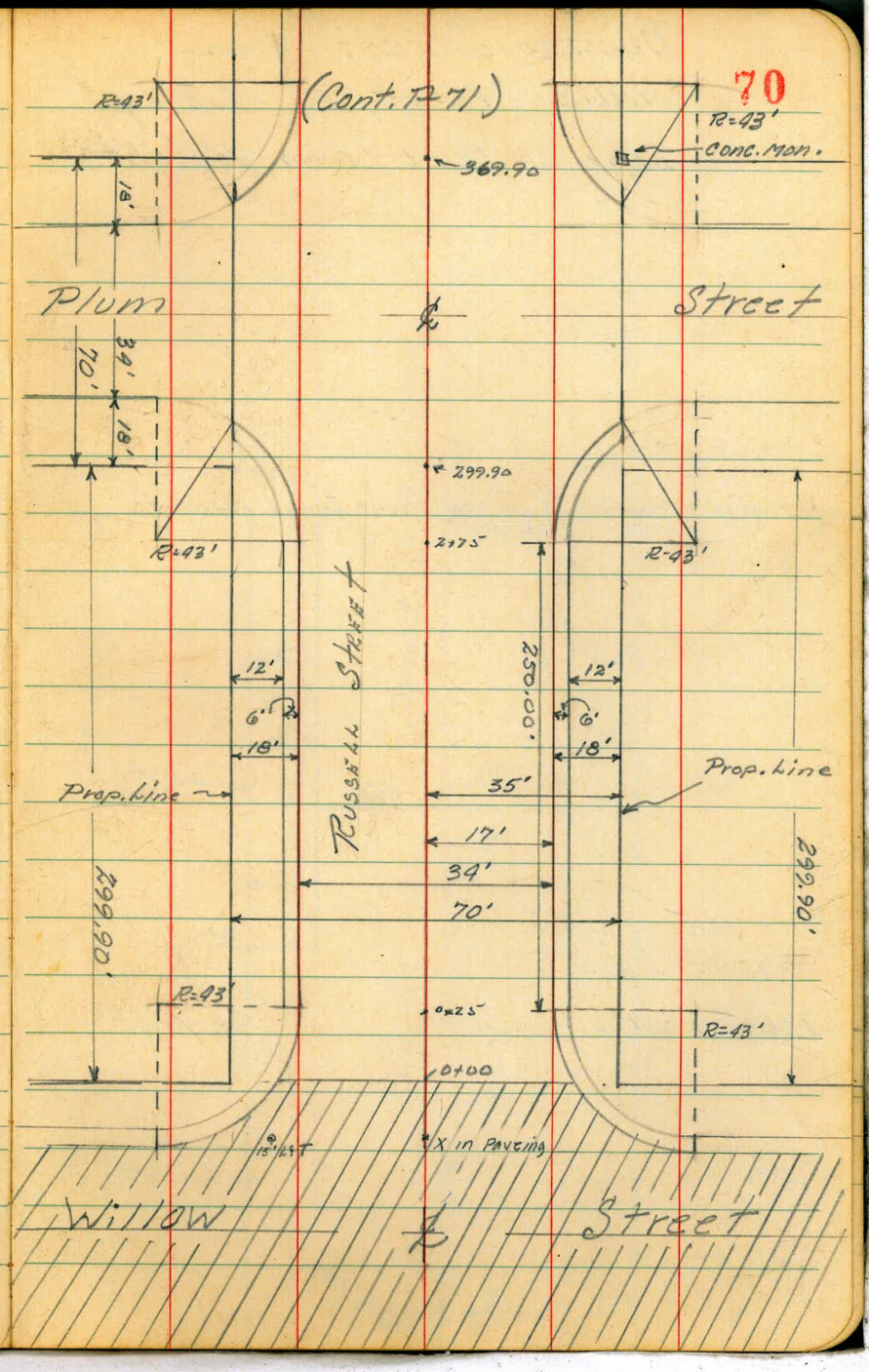
3+34.90 = ℄ Plum Street.

2+99.90 = P.L.

2+75 = B.C.

0+25 = E.C.

0+00 = Edge existing pavement & P.L.

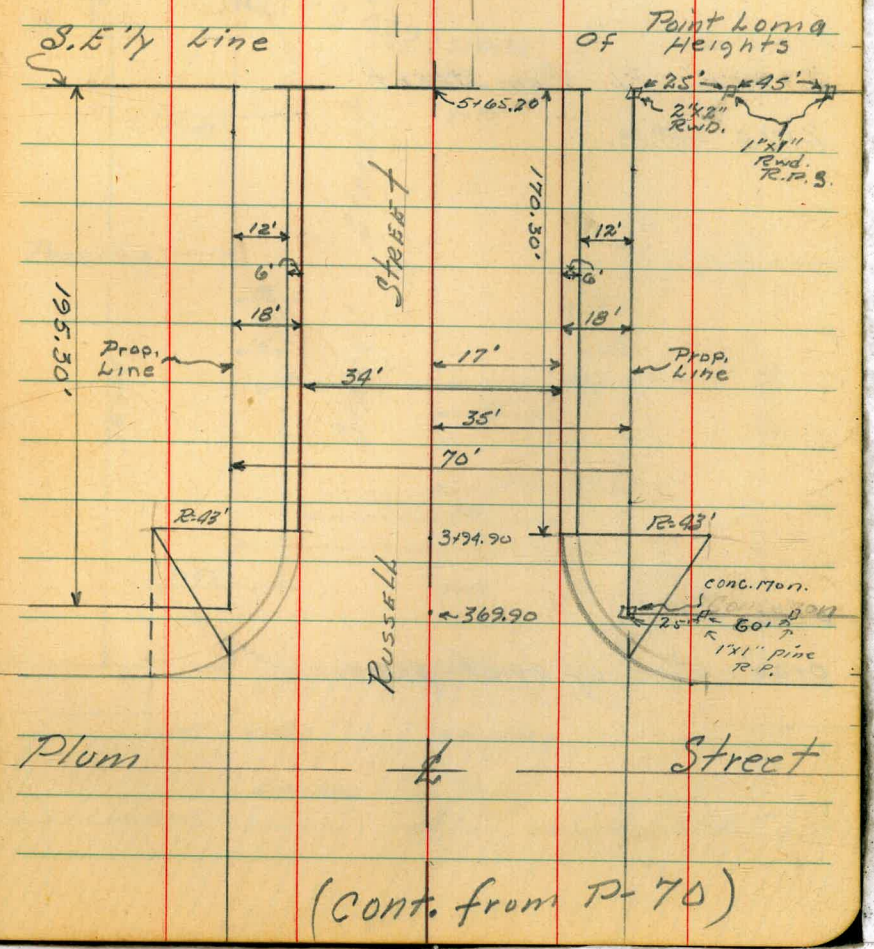


Russell Street from Willow Street to S.E'ly Line of Point Loma Heights

5+65.20 = S.E'ly Line of Point Loma Heights

3+94.90 = E.C.

3+69.90 = P.L.



(cont. from P- 70)

Sterne Street from Willow St.
to W'ly Line of Plum Street.

3+69.93' = Edge of Existing Pavement.

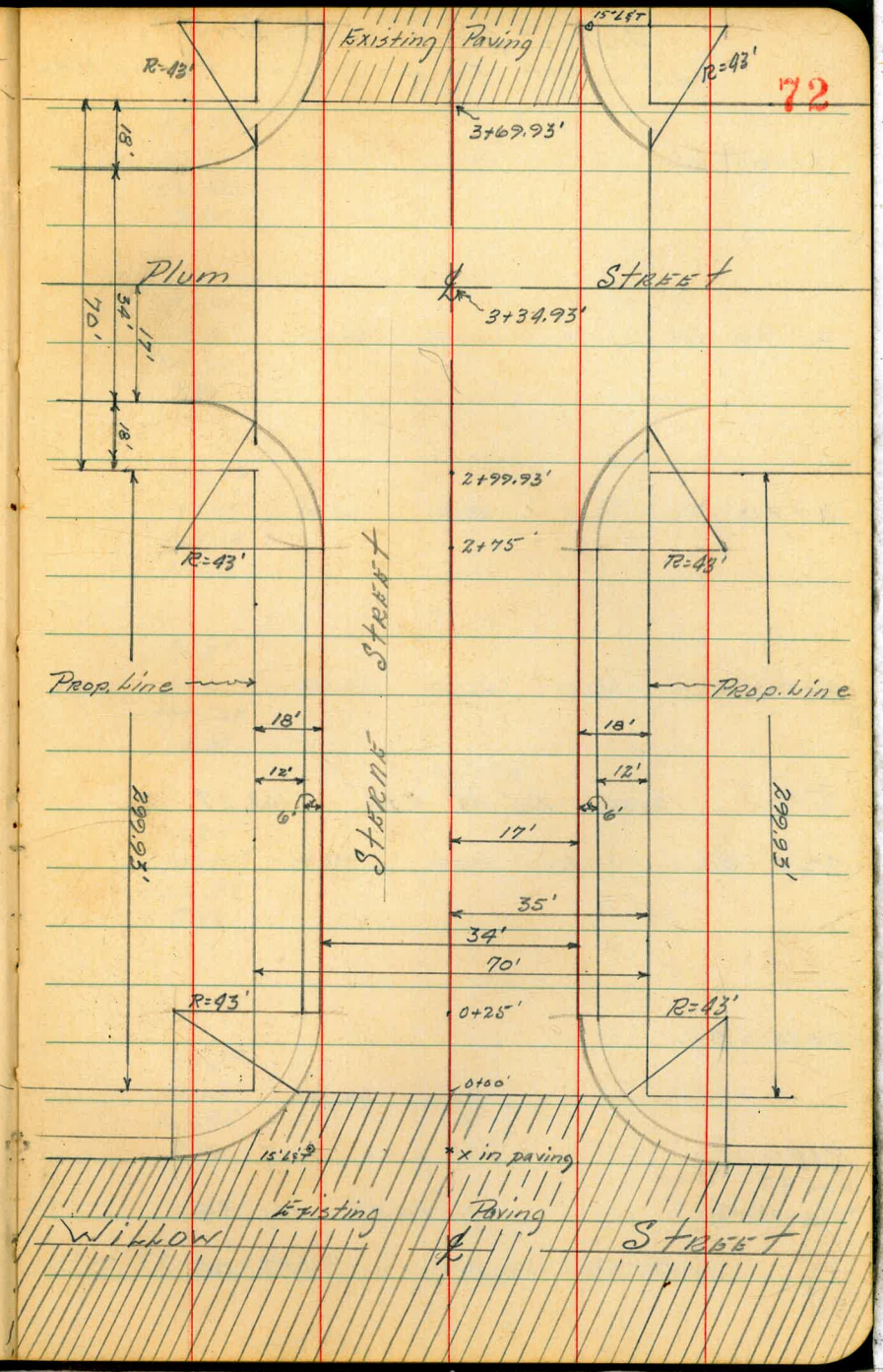
3+34.93' = ℄ int. of Plum & Sterne Sts.

2+99.93' = P.L. Plum Street

2+75' = B.C.

0+25' = E.C.

0+00' = Edge of exist pave.



Grades for Russell Street.

Willow St. to S. Cty Line Paloma Hts.

1+10 = BRK				
0+90 = BRK				
0+70 = BRK				
0+50 = BRK				
T.P.	12.56	175.83	8.94	163.27
0+30 = BRK				
0+25 = B.C.				
0+00				
S.W. B.P. Willow & Russell			10.87	161.34
	0.59	172.21		171.62

	Curb Lt	Gutter Lt	℄	Gutter Rt	Curb Rt
C2.88					
163.57		163.09	163.18	162.63	163.13
166.42					
2.91					
C3.01					
162.93		162.93	162.52	161.93	162.43
165.94					
2.89					
C2.26					
162.92		161.92	161.96	161.32	161.82
164.68					
1.15					
C1.68					
162.01		161.51	161.50	160.81	161.31
163.69					
1.19					
			175.83		
C2.10					
161.69		161.19	161.13	160.39	160.89
163.79					
8.42					
C1.57					
161.28		160.66	160.38	159.34	160.34
162.85					
2.36					

P-3.

B.M. 15' Headstock S.W. Cor. Willow & Sterne

	Lt Curb	Lt Gutter	℄	Rt Gutter	Rt Curb
2+50	C3.59				F0.77
	169.30				169.28
	172.89				168.51
	2.94				7.32
2+30	C3.98				F0.90
	168.45				168.39
	172.43				167.49
	3.40				8.34
2+10	C1.31				F0.79
	167.60				167.50
	168.91				166.71
	6.92				9.12
1+90	C1.79				F0.57
	166.75				166.61
	168.54				166.04
	7.29				9.79
1+70	C2.36				F0.22
	165.90				165.72
	168.26				165.50
	7.57				10.33
1+50 = BRK.	C2.30				
	165.05	164.55	164.78	164.33	164.83
	167.35				
	8.48				
1+30 = BRK	C2.24				
	164.25	163.75	163.94	163.94	163.94
	167.19				
	8.64				

175.83

	Lt Curb	Lt Gutter	℄	Rt Gutter	Rt Curb
4+29.90 = BRK	FO.59				CO.90
	170.65	170.15	170.74	170.65	171.15
	170.06				172.05
	5.77				3.78
4+09.90 = BRK	CO.21				C1.24
	171.20	170.70	171.29	171.20	171.70
	171.41				172.94
	4.42				2.89
3+94.90 = BRK E.C.	CO.86				C1.03
	171.50	171.00	171.59	171.50	172.00
	172.36				173.03
	3.47				2.80
3+82.40 = BRK	C1.89				C1.91
	171.70	171.20	171.79	171.70	172.20
	173.59				173.21
	2.24				2.62
3+69.90 = P.L.	CZ.58				C1.24
	171.65	171.15	171.76	171.68	172.18
	174.23				173.42
	1.60				2.41
2+99.90 = P.L.	CZ.50				CO.46
	171.40	170.90	171.19	170.80	171.30
	173.95				171.96
	1.88				4.07
2+87.5 = BRK	CZ.94				CO.59
	170.87	170.37	170.70	170.35	170.85
	173.81				171.44
	2.02				4.39
2+75 : BC. : BRK	C3.19				CO.27
	170.37	169.87	170.21	169.87	170.37
	173.56				170.64
	2.27				5.19

175.83

				0.02	
				161.33	S.W.I. B.P. - Willow & Russell
			7.11	161.35	
T.P.	1.20	168.46	7.12	167.26	
T.P.	13.06	174.38	12.00	161.32	

5+65.20

5+29.90 = BRK

5+09.90 = BRK

4+89.90 = BRK

4+69.90 = BRK

T.P.	4.36	173.32	6.87	168.96

4+49.90 = BRK.

P-11

	Curb	Gutter	Lt =	℄	Gutter	Rt =	Curb
F8.26							C5.06
	159.54	159.04		159.61	159.50		160.00
	151.28						165.06
	22.04						8.26
F5.79							C4.64
	163.48	162.98		163.57	163.48		163.98
	157.69						168.62
	15.63						4.70
F5.31							C3.42
	165.51	165.01		165.60	165.51		166.01
	160.20						169.43
	13.12						3.89
F4.17							C2.48
	167.24	166.79		167.23	167.24		167.74
	163.07						170.22
	10.25						3.10
F2.06							C2.90
	168.68	168.18		168.77	168.68		169.18
	166.62						172.08
	6.70						1.29
F0.85							C1.72
	169.81	169.31		169.90	169.81		170.31
	168.96						172.03
	6.87						3.80

175.83

Rough Grades for Storms Street from Willow Street to W'ly Plum St.

					Lt Curb	Lt Gutter	℄	Rt Gutter	Rt Curb
1+25									CO.76
					168.30		168.31		168.60
									169.36
									6.82
1+00									C1.12
					169.10		169.13		169.45
									170.57
									5.61
0+75									C1.63
					169.90		169.96		170.30
									171.93
									4.25
0+50 =	BRK								C1.32
					170.70	170.20	170.77	170.65	171.15
									172.47
									3.71
0+25 =	BRK. E.C.								C4.16
					171.50	170.75	171.47	171.50	172.00
									176.16
									0.02
0+00									
					171.88	170.99	171.68	172.07	173.00
	4.56	176.18		171.62					

Left 3.4% Curb

Right 3.4% Curb

Rough Grades

Cont- P. 79

BRK
2+99.93 = P.I. E'ly Plum Street

BRK
2+75 = B.C.

2+50 = BRK

2+25

2+00

1+75

1+50

	Lt Curb	Lt Gutter	℄	Rt Gutter	Rt Curb
	C2 29 ✓				C1 55 ✓
	163.48	163.03	163.28	162.94	163.39
	165.77				164.94
	10.41				11.29
	C2 52 ✓				C1 72 ✓
	163.80	163.40	163.65	163.40	163.80
	166.32				165.52
	9.76				10.66
	C2 21 ✓				C1 50 ✓
	164.30	163.80	164.17	163.85	164.35
	166.51				165.85
	9.67				10.33
	C1 65 ✓				C1 09 ✓
	165.10		165.00		165.20
	166.75				166.24
	9.43				9.94
3.00 Curb	C0 63 ✓				C0 59 ✓
	165.90		165.83		166.05
	166.53				166.64
	9.65				9.54
Left	C0 73 ✓				C0 81 ✓
	166.70		166.66		166.90
	167.43				167.71
	8.75				8.47
					C2 39 ✓
	167.50		167.48		167.75
					170.14
					6.04
			176.18		

Right 3.00 Curb

Rough Grades Cont from P 78

				$\frac{0.02}{162.45}$	ck. Cb Rt					
		13.75		162.43	BL. on	Sterne				
3+34.93										

40' Lt. ℄

C 0 $\frac{69}{}$
162.93
163.62
12.56

40' Rt ℄

C 0 $\frac{13}{}$
162.86
162.99
13.19

176.18

Table I.—Minutes in Decimals of a Degree.

1′	.0167	11′	.1833	21′	.3500	31′	.5167	41′	.6833	51′	.8500
2	.0333	12	.2000	22	.3667	32	.5333	42	.7000	52	.8667
3	.0500	13	.2167	23	.3833	33	.5500	43	.7167	53	.8833
4	.0667	14	.2333	24	.4000	34	.5667	44	.7333	54	.9000
5	.0833	15	.2500	25	.4167	35	.5833	45	.7500	55	.9167
6	.1000	16	.2667	26	.4333	36	.6000	46	.7667	56	.9333
7	.1167	17	.2833	27	.4500	37	.6167	47	.7833	57	.9500
8	.1333	18	.3000	28	.4667	38	.6333	48	.8000	58	.9667
9	.1500	19	.3167	29	.4833	39	.6500	49	.8167	59	.9833
10	.1667	20	.3333	30	.5000	40	.6667	50	.8333	60	1.0000

Table II.—Inches in Decimals of a Foot.

1–16	3–32	⅛	3–16	¼	5–16	⅜	½	⅝	¾	⅞
.0052	.0078	.0104	.0156	.0208	.0260	.0313	.0417	.0521	.0625	.0729

1	2	3	4	5	6	7	8	9	10	11
.0833	.1667	.2500	.3333	.4167	.5000	.5833	.6667	.7500	.8333	.9167

Table III.—Radii, Ordinates and Deflections.

Deg.	Radius	Mid. Ord.	Tan. Offset	Def. for 1 Foot	Deg.	Radius	Mid. Ord.	Tan Offset	Def. for 1 Foot
0° 10′	34377.5	.036	.145	0.05′	7°	819.02	1.528	6.105	2.10′
20	17188.8	.073	.291	0.10	20′	781.84	1.600	6.395	2.20
30	11459.2	.109	.436	0.15	30	764.49	1.637	6.540	2.25
40	8594.42	.145	.582	0.20	40	747.89	1.673	6.685	2.30
50	6875.55	.182	.727	0.25					
					8	716.78	1.746	6.976	2.40
1	5729.65	.218	.873	0.30	20	688.16	1.819	7.266	2.50
10	4911.15	.255	1.018	0.35	30	674.69	1.855	7.411	2.55
20	4297.28	.291	1.164	0.40	40	661.74	1.892	7.556	2.60
30	3819.83	.327	1.309	0.45					
40	3437.87	.364	1.454	0.50	9	637.28	1.965	7.846	2.70
50	3125.36	.400	1.600	0.55	20	614.56	2.037	8 136	2.80
					30	603 80	2.074	8.281	2.85
2	2864.93	.436	1.745	0.60	40	593.42	2.110	8.426	2.90
10	2644.58	.473	1.891	0.65					
20	2455.70	.509	2.036	0.70	10	573.69	2.183	8.716	3.00
30	2292.01	.545	2.181	0.75	30	546 44	2.292	9.150	3.15
40	2148.79	.582	2.327	0.80	11	521.67	2.402	9.585	3.30
50	2022.41	.618	2.472	0.85	30	499.06	2.511	10.02	3.45
					12	478.34	2.620	10.45	3.60
3	1910.08	.655	2.618	0.90	30	459.28	2.730	10.89	3.75
10	1809.57	.691	2.763	0.95	13	441.68	2.839	11.32	3.90
20	1719.12	.727	2.908	1.00	30	425.40	2.949	11.75	4.05
30	1637.28	.764	3.054	1.05	14	410.28	3.058	12.18	4.20
40	1562.88	.800	3.199	1.10	30	396.20	3.168	12.62	4.35
50	1494.95	.836	3.345	1.15					
					15	383.07	3.277	13.05	4.50
4	1432.69	.873	3.490	1.20	30	370.78	3.387	13.49	4.65
10	1375.40	.909	3.635	1.25	16	359.27	3.496	13.92	4.80
20	1322.53	.945	3.718	1.30	30	348.45	3.606	14.35	4.95
30	1273.57	.982	3.926	1.35	17	338.27	3.716	14.78	5.10
40	1228.11	1.018	4.071	1.40	18	319.62	3.935	15.64	5.40
50	1185.78	1.055	4.217	1.45	19	302.94	4.155	16.51	5.70
5	1146.28	1.091	4.362	1.50	20	287.94	4.374	17.37	6.00
10	1109.33	1 127	4.507	1.55	21	274.37	4.594	18.22	6.30
20	1074.68	1.164	4.653	1.60	22	262.04	4.814	19 08	6.60
30	1042.14	1.200	4.798	1.65	23	250.79	5.035	19.94	6.90
40	1011.51	1.237	4.943	1.70	24	240.49	5.255	20.79	7.20
50	982.64	1.273	5.088	1.75					
					25	231.01	5.476	21.64	7.50
6	955.37	1.309	5.234	1.80	26	222.27	5.697	22.50	7.80
10	929.57	1.346	5.379	1.85	27	214.18	5.918	23.35	8.10
20	905.13	1.382	5.524	1.90	28	206.68	6.139	24.19	8.40
30	881.95	1.418	5.669	1.95	29	199.70	6.360	25.04	8.70
40	859.92	1.455	5.814	2.00	30	193.18	6.583	25.88	9.00

Note. Chord Deflection=2 times tangent deflection.

Table IV.—Tangents and Externals to a 1° Curve.

Central Angle	Tangent	External	Central Angle	Tangent	External	Central Angle	Tangent	External
1°	50.00	.22	11°	551.70	26.50	21°	1061.9	97.57
10′	58.34	.30	10′	560.11	27.31	10′	1070.6	99.16
20	66.67	.39	20	568.53	28.14	20	1079.2	100.75
30	75.01	.49	30	576.95	28.97	30	1087.8	102.35
40	83.34	.61	40	585.36	29.82	40	1096.4	103.97
50	91.68	.73	50	593.79	30.68	50	1105.1	105.60
2	100.01	.87	12	602.21	31.56	22	1113.7	107.24
10	108.35	1.02	10	610.64	32.45	10	1122.4	108.90
20	116.68	1.19	20	619.07	33.35	20	1131.0	110.57
30	125.02	1.36	30	627.50	34.26	30	1139.7	112.25
40	133.36	1.55	40	635.93	35.18	40	1148.4	113.95
50	141.70	1.75	50	644.37	36.12	50	1157.0	115.66
3	150.04	1.96	13	652.81	37.07	23	1165.7	117.38
10	158.38	2.19	10	661.25	38.03	10	1174.4	119.12
20	166.72	2.43	20	669.70	39.01	20	1183.1	120.87
30	175.06	2.67	30	678.15	39.99	30	1191.8	122.63
40	183.40	2.93	40	686.60	40.99	40	1200.5	124.41
50	191.74	3.21	50	695.06	42.00	50	1209.2	126.20
4	200.08	3.49	14	703.51	43.03	24	1217.9	128.00
10	208.43	3.79	10	711.97	44.07	10	1226.6	129.82
20	216.77	4.10	20	720.44	45.12	20	1235.3	131.65
30	225.12	4.42	30	728.90	46.18	30	1244.0	133.50
40	233.47	4.76	40	737.37	47.25	40	1252.8	135.35
50	241.81	5.10	50	745.85	48.34	50	1261.5	137.23
5	250.16	5.46	15	754.32	49.44	25	1270.2	139.11
10	258.51	5.83	10	762.80	50.55	10	1279.0	141.01
20	266.86	6.21	20	771.29	51.68	20	1287.7	142.93
30	275.21	6.61	30	779.77	52.89	30	1296.5	144.85
40	283.57	7.01	40	788.26	53.97	40	1305.3	146.79
50	291.92	7.43	50	796.75	55.13	50	1314.0	148.75
6	300.28	7.86	16	805.25	56.31	26	1322.8	150.71
10	308.64	8.31	10	813.75	57.50	10	1331.6	152.69
20	316.99	8.76	20	822.25	58.70	20	1340.4	154.69
30	325.35	9.23	30	830.76	59.91	30	1349.2	156.70
40	333.71	9.71	40	839.27	61.14	40	1358.0	158.72
50	342.08	10.20	50	847.78	62.38	50	1366.8	160.76
7	350.44	10.71	17	856.30	63.63	27	1375.6	162.81
10	358.81	11.22	10	864.82	64.90	10	1384.4	164.86
20	367.17	11.75	20	873.35	66.18	20	1393.2	166.95
30	375.54	12.29	30	881.88	67.47	30	1402.0	169.04
40	383.91	12.85	40	890.41	68.77	40	1410.9	171.15
50	392.28	13.41	50	898.95	70.09	50	1419.7	173.27
8	400.66	13.99	18	907.49	71.42	28	1428.6	175.41
10	409.03	14.58	10	916.03	72.76	10	1437.4	177.55
20	417.41	15.18	20	924.58	74.12	20	1446.3	179.72
30	425.79	15.80	30	933.13	75.49	30	1455.1	181.89
40	434.17	16.43	40	941.69	76.86	40	1464.0	184.08
50	442.55	17.07	50	950.25	78.26	50	1472.9	186.29
9	450.93	17.72	19	958.81	79.67	29	1481.8	188.51
10	459.32	18.38	10	967.38	81.09	10	1490.7	190.74
20	467.71	19.06	20	975.96	82.53	20	1499.6	192.99
30	476.10	19.75	30	984.53	83.97	30	1508.5	195.25
40	484.49	20.45	40	993.12	85.43	40	1517.4	197.53
50	492.88	21.16	50	1001.7	86.90	50	1526.3	199.82
10	501.28	21.89	20	1010.3	88.39	30	1535.3	202.12
10	509.68	22.62	10	1018.9	89.89	10	1544.2	204.44
20	518.08	23.38	20	1027.5	91.40	20	1553.1	206.77
30	526.48	24.14	30	1036.1	92.92	30	1562.1	209.12
40	534.89	24.91	40	1044.7	94.46	40	1571.0	211.48
50	543.29	25.70	50	1053.3	96.01	50	1580.0	213.86

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.