1775

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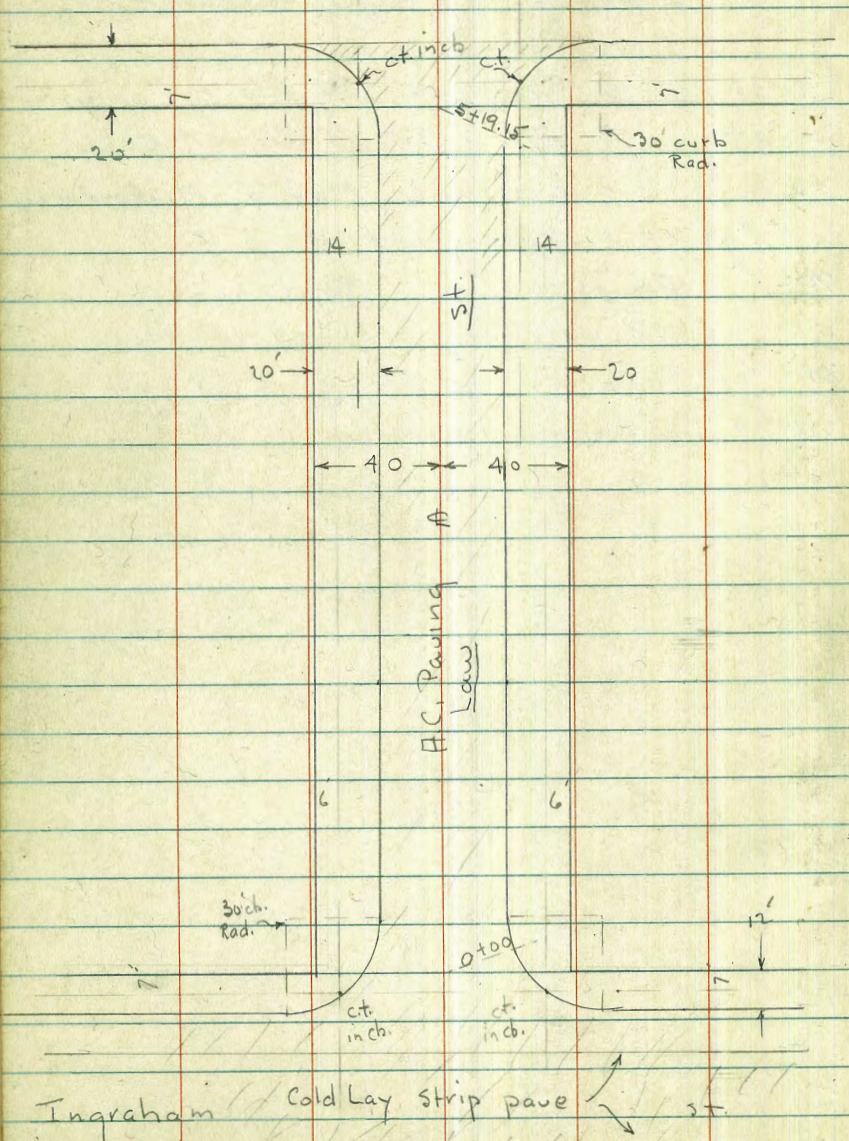
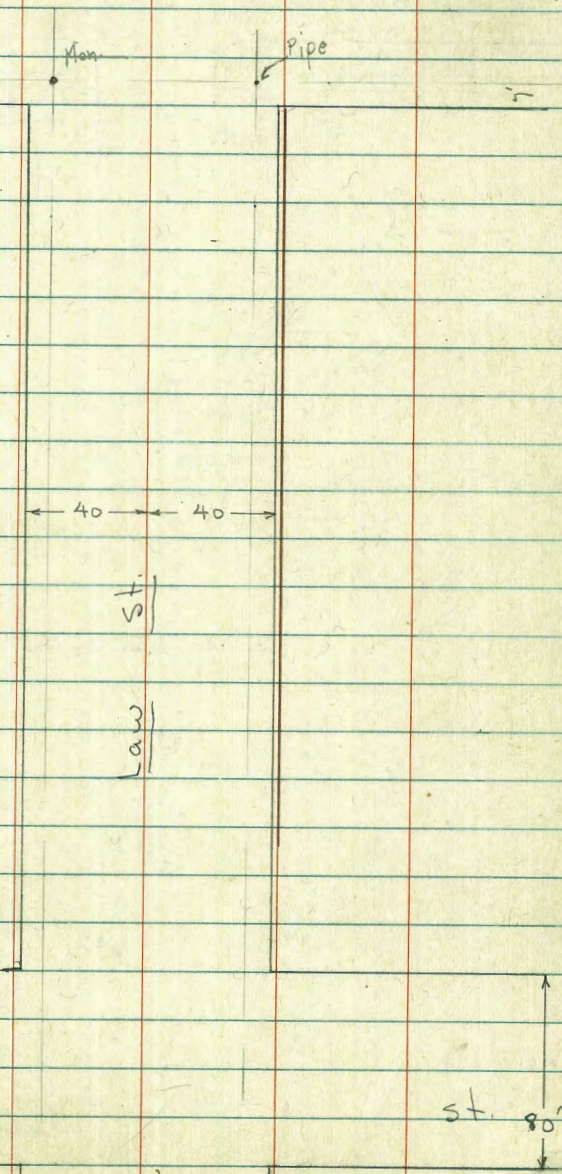
Indexed
C.S.K.

X-Sect. - Law - from Ingraham to Lamont

1





Indexed

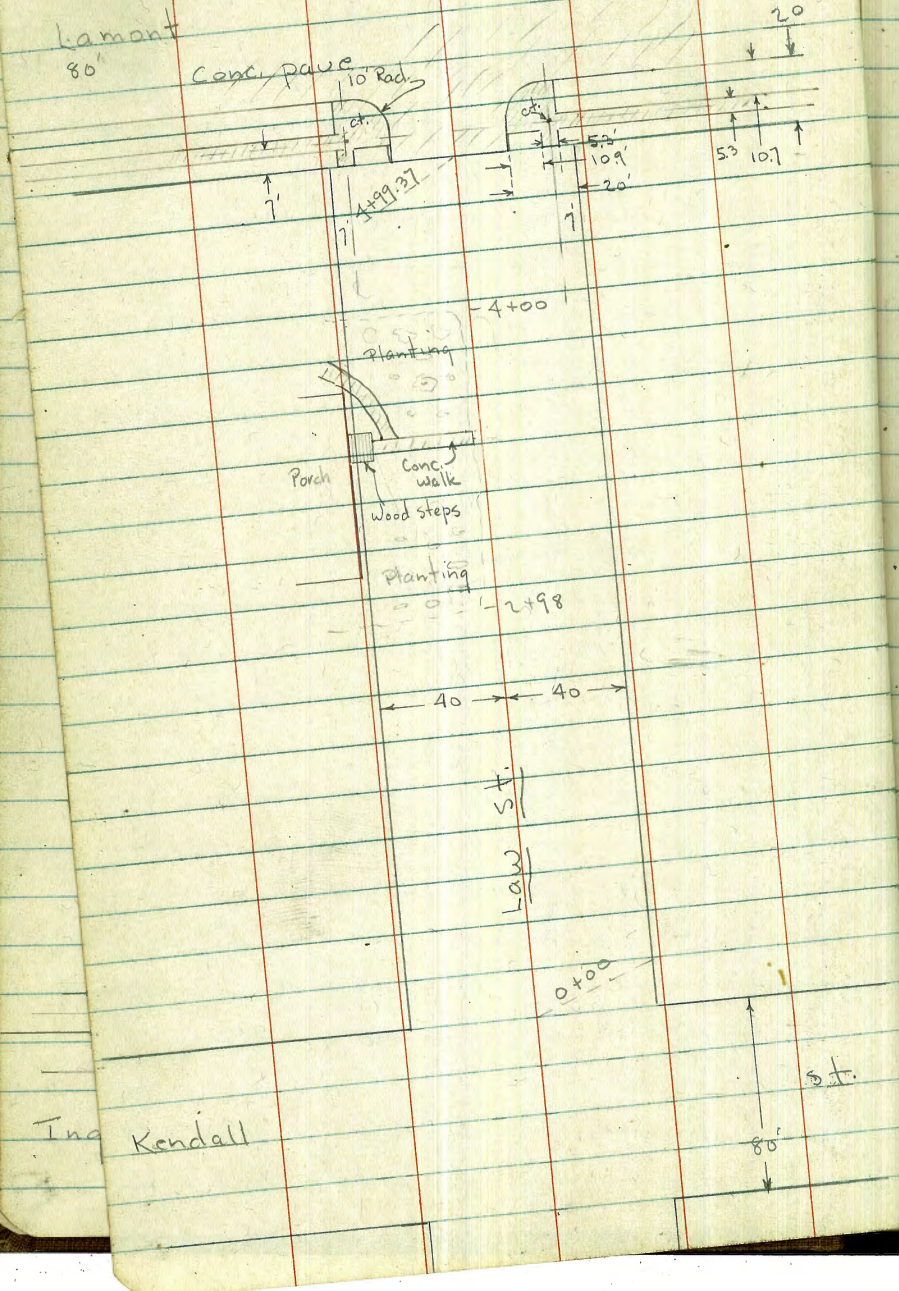
2

1165

W.O. 31371

6-2+3-47

Osborne
Hardin
Smith
Worrell



X-Sect Law St. from Ingraham to Lamont. 80' St. 20' cbs.
Curbs + paving in from Ingraham to W. cb. of Jewell.

					℄							
					Lt = N.				Rt = S.			
T.P.	7.35	126.06	0.83	118.71	126.06							
0+18 = opp. P.C. 30' Rad. Curb Ret.	110.86 / 8.68 / 20 / Top	110.25 / 9.29 / 20 / gut.	110.32 / 9.22	109.79 / 9.75 / 20 / gut	110.36 / 9.18 / 20 / Top							
0+00 = E.L. Ingraham	110.38 / 9.16 / 25.8 / Top	109.70 / 9.84 / 25.8 / gut.	109.40 / 10.14	108.52 / 11.02 / 25.8 / gut.	109.23 / 10.31 / 25.8 / Top							
0-12 = E. cb. (X revised →)	107.36 / 12.18 / 60 / gut.	108.24 / 11.30 / 50 / Top-P.C.	107.54 / 12.00 / 50 / gut.	107.76 / 11.78 / 40	108.39 / 11.15 / 20	109.00 / 10.54 / cross gut.	109.54 / 10.00 / 20	110.26 / 9.28 / 40	110.82 / 8.72 / 50 / gut	111.56 / 7.98 / 50 / Top. P.C. 30' Rad.	111.39 / 8.15 / 60
0-24 = W. edge of New pave for Law	111.15 / 8.39 / 60	110.24 / 9.30 / 40	109.46 / 10.08 / 20	108.74 / 10.80	108.19 / 11.35 / 20	107.67 / 11.87 / 40	107.28 / 12.26 / 60					
0-40 = ℄ Ingraham – on Cold lay pave	111.14 / 8.40 / 60	110.21 / 9.33 / 40	109.45 / 10.09 / 20	108.79 / 10.75 / on M.H.	108.14 / 11.40 / 20	107.56 / 11.98 / 40	107.07 / 12.47 / 60					
	4.68	119.54	13.19	114.86	119.54							
B.M.	2.97	128.05		125.08	S.W. Cor. Ingraham + B[illegible]							

T.P.	11.58	137.36	0.28	125.78						
3+50										
3+00										
2+60										
2+20										
1+80										
1+40										
1+00										
0+59										

	Lt.				Rt	
	0.66	0.76	0.64	1.24	0.63	
	20	20		20	20	
	Edge Dr.	gut.		gut	Top	
	1.83	1.90	1.88	2.38	1.76	
	20	20		20	20	
	edge Dr.	gut.		gut	Top	
	2.36	3.04	2.88	3.50	2.86	
	20	20	on MH.	20	20	
	Top	gut		gut	Top	
	3.80	4.41	4.35	4.86	4.17	
	20	20		20	20	
	Top	gut		gut	Top	
	6.06	6.64	6.10	6.13	5.91	
	20	20		20	20	
	Top	gut		gut.	Top	
	7.52	8.10	8.11	8.76	8.63	
	20	20		20	20	
	Top	gut.		gut	edge Dr.	
	9.94	10.57	10.48	11.07	11.02	
	20	20		20	20	
	Top	gut		gut	edge	
	13.10	13.23	13.13	13.69	13.07	
	20	20		20	20	
	edge Dr.	gut.		gut	Top	

126.06

40' E. = ℄

20' E. = W. cb. = end of R.C. pave

5+19.15 = W.h. Jewell

5+09.15 = P.C. 30° Rad. Ret.

4+80

4+40

4+00

℄

Lt.

Rt.

	Lt.			℄	Rt.		
	135.32						
	2.0+	2.5 / 134.8	5.1 / 132.4	5.4 / 132.0	6.3 / 131.1	7.0 / 130.4	7.6 / 129.8
	100	100	50	40	20		20
	Top cb.	Top P.C.	5.30 / 132.06	5.92 / 131.44	6.28 / 131.08	6.86 / 130.50	7.33 / 130.03
			50	50	40	20	20
				gut.			7.7 / 129.61
							gut.
5+19.15 = W.h. Jewell				7.39 / 129.97	8.07 / 129.29	7.93	8.56 / 128.80
				21.7			21.8
				Top	gut.		gut.
5+09.15 = P.C. 30° Rad. Ret.				7.68 / 129.68	8.36 / 129.00	8.18 / 129.18	8.77 / 128.59
				20	20		20
				Top P.C.	gut.		gut.
4+80				8.41 / 128.95	9.04 / 128.32	8.86 / 128.50	9.50 / 127.86
				20	20		20
				Top	gut.		gut.
4+40				9.82 / 127.54	9.92 / 127.44	9.81 / 127.55	10.42 / 126.94
				20	20		20
				edge Dr.	gut.		gut.
4+00				10.78 / 126.58	10.83 / 126.53	10.72 / 126.64	11.34 / 126.02
				20	20		20
				edge Dr.	gut.		gut.

	℄	Rt.				
	7.0 / 130.4	7.6 / 129.8	8.3 / 129.1	8.6 / 128.8	10.3 / 127.1	
		20	40	50	100	
	7.03	7.7 / 129.61		8.26 / 129.10	8.49 / 128.87	7.89 / 129.47	9.88 / 127.51
				40	50	50	100
					gut.	Top P.C.	Top cb.
	7.93	8.56 / 128.80			7.95 / 129.41		
		21.8			21.8		
		gut.			Top		
	8.18 / 129.18	8.77 / 128.59			8.19 / 129.17		
		20			20		
		gut.			Top - P.C.		
	8.86 / 128.50	9.50 / 127.86			8.86 / 128.50		
		20			20		
		gut.			Top		
	9.81 / 127.55	10.42 / 126.94			9.80 / 127.56		
		20			20		
		gut.			Top		
	10.72 / 126.64	11.34 / 126.02			11.29 / 126.07		
		20			20		
		gut.			edge Dr.		

137.36

0+97 - 22' Rt. = ℄ of NLy 2' Hedge - 3' High along lot Line

0+81 - 40' Rt. = ℄ 3' Conc. walk

0+70

0+59 - 40' Rt. = ℄ 9' Conc. Dr. - to Sing. Gar. Conc. floor

0+52 - 23.1 Rt. = ℄ NLy 18" Hedge along lot line

0+45 - 25.7 Rt = ℄ 4" Euc. Tree

0+40

T.P. 4.84 141.54 0.66 136.70

0+26 - 33.8 Lt. = ℄ 3' Conc. walk

0+20

80' E. = E.L. Jewell = 0+00 ahead

60' E. = E. cb.

	Lt.							Rt.			
0+97	7.56 / 139.80										
	40										
0+81	walk										
		2.2 / 139.3	3.8 / 137.7	5.0 / 136.5	5.6 / 135.9	5.5 / 136.0	5.9 / 135.6	6.4 / 135.1	6.2 / 135.3	7.5 / 134.0	7.8 / 133.7	8.0 / 133.5
		50	40	20	12		10	17	20	23	40	50
0+70												
0+59									7.85	8.20		
									40	59 = floor		
									Dr.	Gar.		
0+52	3.80 / 137.80	4.0 / 137.6	4.8 / 136.7	5.0 / 136.5	6.4 / 135.1	6.3 / 135.2	6.6 / 134.9	7.1 / 134.4	7.1 / 134.4	7.9 / 133.6	8.2 / 133.3	
	50	40	20	17	12		10	17	20	40	50	
0+45												
0+40												
T.P.				141.54								
0+26	+ 0.19 / 137.17		0.03 / 137.33									
	40											
	on walk		33.8 = edge walk									
0+20	+ 0.1 / 137.5	0.3 / 137.1	1.2 / 136.2	1.6 / 135.8	3.0 / 134.4	3.0 / 134.4	3.4 / 134.0	4.0 / 133.4	3.4 / 134.0	4.1 / 133.3	4.9 / 132.9	
	50	40	20	15	12		10	17	20	40	50	
80' E.	1.8 / 135.6	1.9 / 135.5	2.9 / 134.5	3.3 / 134.1	4.6 / 132.8	4.6 / 132.8	4.8 / 132.6	5.2 / 132.2	4.4 / 133.0	4.9 / 132.5	5.1 / 132.3	
	50	40	20	14	12		10	17	20	40	50	
60' E.	5.0 / 132.4	5.3 / 132.1	5.9 / 131.5		6.2 / 131.2	6.9 / 130.5	7.4 / 130.0	8.1 / 129.3				
	50	40	20			20	40	50				
			137.36									

2+50

2+48 ~~17.2 Lt.~~ = end fence

2+08 - 40.3 Rt. = ℄ 8' Conc. Dr. to Sing. Gar. - Conc. floor

~~Fence out~~ Planting.

2+01 ~~19.6 Lt.~~ = Beg. Wire fence around flower

2+00

1+81 - 40.1 Rt. = ℄ 3' Conc. walk

1+59 - 40.1 Rt. = ℄ 8' Conc. Dr. to Sing. Gar. - Conc floor

1+50

1+31 - 40' Rt. = ℄ 3' Conc walk

1+29 - 27.8 - ~~Rt. = ℄ 2" Acacia~~

1+16 - 27.8 Rt. = ~~℄ 2" Acacia~~ out

1+07 - 40.1 Rt. = ℄ 8.5' Conc. Dr. to Sing. Gar. - Conc. floor

1+00

Ft.	℄	Rt.
137.5		134.5
137.2		134.6
135.3		134.1
135.1		133.3
135.2		132.5
134.9		131.9
4.0 / 50	4.3 / 40	6.2 / 20	6.4 / 12	6.3	6.6 / 10	7.0 / 16	6.9 / 18	7.4 / 20	8.2 / 24	9.0 / 40	9.6 / 50

8.9 / 132.59 / 40.3 = Dr.

9.63 / 131.91 / 57 = floor Gar.

138.9	138.4	137.3	136.3	136.0	135.5	135.0	135.1	133.9	132.8	132.4	
2.6 / 50	3.1 / 40	4.2 / 20	5.2 / 13	5.8	6.0 / 10	6.5 / 17	6.4 / 20	7.6 / 24	8.7 / 40	9.1 / 50	

6.96 / 134.58 / 40.1 Dr.

7.87 / 133.67 / 58.4 = floor Gar.

7.5 / 132.96 / 40.1 walk

138.9	138.3	137.3	136.5	136.6	136.2	135.7	135.9	135.2	134.7	134.0	
2.6 / 50	3.2 / 40	4.2 / 20	5.0 / 12	4.9	5.3 / 10	5.8 / 17	5.6 / 20	6.3 / 24	6.8 / 40	7.5 / 50	

6.63 / 134.91 / 40 walk

7.15 / 134.39 / 40.1

8.38 / 133.16 / 68.5 floor Gar.

138.1	137.5	136.7	136.1	136.3	135.9	135.5	134.7	134.1	133.9		
3.4 / 50	4.0 / 40	4.8 / 20	5.4 / 12	5.2	5.6 / 10	6.0 / 20	6.8 / 25	7.4 / 40	7.6 / 50		

141.54

4+08 - 39.7 Rt. = ℄ 8.5' Conc. Dr. to Sing. Gar. Conc. floor

4+02 - 39.7 Rt. = Beg. 4" Conc. Base for picket fence

4+00

3+79 - 40' Rt. = ℄ 3' Conc. walk

3+59 - 40' Rt. = ℄ 8' Conc. Dr. - to Sing. Gar. - Conc. floor

3+50

3+30 - 39.7 Rt. = ℄ 3' Conc. walk

3+07 - 39.7 Rt. = ℄ 8' Conc. Dr. to Sing. Gar - Conc. floor

3+00

2+58 - 39.6 Rt. = ℄ 8' Conc. Dr. to Sing. Gar. - Conc. floor.

141.54

60' E. = E. cb.

40' E. = ℄

20' E. = W cb.

5+00.20 = W.L. Kendall

T.P. 12.15 147.44 6.25 135.29

4+84 - 39.9 Rt. = ℄ 3' Conc. walk

4+76 - 39.4 Lt. = ℄ 3' Conc. walk

4+50

4+49 - 39.7 Rt. = end - Conc. base + fence

4+31 - 39.8 Rt. = ℄ 3' Conc. walk

℄ Lt. Rt.

8.3 50 139.1
9.0 40 138.4
10.0 20 137.4
11.0 136.4
11.5 14 135.9
12.0 20 135.5
12.4 40 135.0
12.5 50 134.9

4.1 100 143.3
8.8 50 138.6
9.5 40 137.9
10.2 20 136.9
10.9 11 136.5
11.2 136.2
11.6 10 135.8
11.9 20 135.5
12.9 40 134.5
13.2 0 134.2
14.6 100 132.8

9.1 50 138.3
9.9 40 137.5
11.6 20 135.8
11.6 12 135.8
11.8 135.6
12.1 10 135.3
12.8 20 134.6
13.1 30 134.3
13.3 40 134.1
13.4 50 134.0

9.2 50 138.2
10.2 40 137.2
11.8 20 135.6
12.1 12 135.3
12.2 135.2
12.4 8 135.0
13.2 16 134.2
12.4 20 135.0
14.1 30 133.3
14.4 40 133.0
14.7 50 132.7

147.44

4.55
39.4 = walk

5.4 50 136.1
6.0 40 135.5
6.7 20 134.8
6.8 12 134.7
6 134.9
6.6 134.9
7.5 14 134.0
7.1 18 134.4
7.8 20 133.7
8.8 25 132.7
9.5 40 132.0
9.7 50 131.8

8.83
39.9
walk
132.71

9.27
39.7
Top Conc.
132.21

9.57
39.8
walk
131.97

141.54

Station				
1+40				
1+31 - 40' Lt. = ℄ 3' Conc. walk				
1+09 - 40' Lt. = ℄ of 2-1.9' Conc. strip Drive				
1+00				
0+86 - 40' Lt. = ℄ 2.5' Conc. walk				
0+75 - 39' Lt. = end fence				
0+65				
0+58 - 39.8 Lt. = ℄ 2.5' Conc. walk				
T.P.	9.58	150.70	6.32	141.12
0+30				
0+12 - 39.7 Lt. = ℄ 3' Conc. walk				
0+05 - 40' Lt. = Beg. Picket fence				
80' E. = E.L. Kendall = 0+00 ahead.				

Station	50 Lt.	40	20	10	5	℄	16	20 Rt.	40	50
1+40	145.9 4.8/50	145.2 5.5/40	143.5 7.2/20 Lt.	143.5 7.2/10	141.9 8.8/5	141.7 9.0	141.7 9.0/16	142.0 8.7/20 Rt.	141.9 8.8/40	141.5 9.2/50
1+31	144.98 5.72 40 = walk									
1+09	143.98 6.72 40 Dr.									
1+00	144.7 6.0/50	143.1 7.6/40	141.7 9.0/20	140.9 9.8/10	139.8 10.9/5	139.7 11.0	139.4 11.3/16	139.5 11.2/20	139.0 11.7/40	139.1 11.6/50
0+86	142.84 7.86 40 = walk									
0+65	142.1 8.6/50	141.3 9.4/40	140.2 10.5/20	139.8 10.9/10	138.6 12.1/5	138.4 12.3	137.9 12.8/15	138.2 12.5/20	138.0 12.7/40	137.7 13.0/50
0+58	9.14 39.8 walk									
0+30	141.7 5.7/50	141.1 6.3/40	140.1 7.3/20	139.7 7.7/12	137.4 10.0/6	137.3 10.1	136.9 10.5/14	137.3 10.1/20	136.8 10.6/40	136.1 11.3/50
0+12	141.01 6.43 39.7 walk									
0+00	141.1 6.3/50	140.3 7.1/40	138.9 8.5/20	138.6 8.8/15	136.8 10.6/8	136.6 10.8	136.2 11.2/14	136.7 10.7/20	136.3 11.1/40	136.2 11.2/50

150.70

147.44

2+91 - 40.3 Lt. = ℄ 2-2' Conc. Strip Dr.
2+71 - 40.2 Lt. = ℄ 3' Conc. walk

2+60

T.P. 4.75 | 153.47 | 1.98 | 148.72

2+30 - 40.1 Lt. = ℄ 3' Conc. walk

Gar. - Conc. floor
2+09 - 40' Lt. = ℄ - 2-2' Conc. Strip Dr. to Sing.
2+07 - 40' Rt. = ℄ 3' Conc. walk

2+00

1+90 - 40' Lt. = ℄ 9.5 Conc. Dr. to Sing. Gar. - Conc. floor

1+80

1+77 - 83.1 Rt. = ℄ Doub. Gar. - Conc. floor - Dirt Dr.
1+72 - 40' Lt. = ℄ 3' Conc. walk

Lt. ℄ Rt.

151.43 — 2.02 / 40 = walk
152.18 — 1.29 / 40.3 = Dr.

2+60: 151.3 2.2/50 | 151.2 2.3/40 | 150.1 3.4/20 | 149.9 3.6/10 | 149.4 4.1 | 149.1 4.4/10 | 148.5 5.0/20 | 146.9 6.6/40 | 146.4 7.1/50

153.47

2+30: 150.40 0.30/50 on walk | 150.10 0.60/40.1 walk | 150.0 0.7/40 | 149.3 1.4/20 | 149.0 1.7/10 | 148.2 2.5 | 148.1 2.6/10 | 148.1 2.6/20 | 147.1 3.6/40 | 146.4 4.3/50

149.08 — 1.62 / 60.5 floor
148.59 — 2.11 / 40 = Dr.
146.65 — 4.05 / 40 walk

2+00: 147.8 2.9/50 | 147.6 3.1/40 | 146.0 3.7/20 | 145.9 3.8/10 | 146.2 4.5 | 146.1 4.6/10 | 146.4 4.3/20 | 146.4 4.3/40 | 146.1 4.6/50

148.28 — 2.42 / 65.5 floor Gar.
147.2 — 3.50 / 40 = Dr.

1+80: 147.3 3.4/50 | 146.9 3.8/40 | 145.2 5.3/20 | 144.7 6.0/5 | 144.6 6.1 | 144.4 6.3/10 | 144.4 6.3/20 | 143.7 7.0/40 | 143.5 7.2/50

146.13 — 4.57 / 40 = walk
143.70 — 7.0 / 40 on Dirt Dr.
143.30 — 7.40 / 83.1 = Conc. floor

150.70

4+18 - 40' Rt. = ℄ 3' Conc. & Rock walk

4+17 - 30.5 Lt. = ℄ 8" Tree

4+15 - 58.8 Rt. = ℄ House

4+00 - 3' Lt. = End. Cor. planting

3+94 - 40' Rt. = ℄ 2-2' Conc. strip Dr.

3+87 - 12.8 Lt. = ℄ 12" China Berry tree

3+78 - 39.9 Rt. = ℄ 3' Conc. walk to House

3+70

3+64 - 25.7 Lt. = ℄ 3.5' Palm.

3+58 - 40.1 Rt. = ℄ 2-2' Conc. Strip Dr.

3+40 - 40.2 Rt. = ℄ 3' Conc. walk to House

on Lt.

3+38 - ℄ 4' Conc. walk + 8' Wood steps to old House

3+00

+ Shrubs

2+98 - 3' Lt. = Beg. Cor. of Section planted in flowers

2+92 - 54.6 Rt. = ℄ New House

8.21
40
walk

	Lt.			℄			Rt.			
150.6	149.9	148.8	148.7	147.8	147.2	147.2	146.6	145.5	144.8	145.42
2.9	3.6	4.6	4.8	5.7	6.3	6.3	6.9	8.0	8.7	7.95
50	40	20	5		10	20	40	50	58.8 ground	58.8 floor

146.52
6.85
40
Dr.

6.37
39.9
walk

6.55
55 = floor House

152.4	152.3	150.9	150.6	148.9	148.2	148.0	147.3	146.6
1.1	1.2	2.6	2.9	4.6	5.3	5.5	6.2	6.9
50	40	20	10		10	20	40	50

147.29
6.18
40.1
Dr.

152.4	152.01	151.0	150.6	149.3	148.8	148.3	147.4	147.31	147.19
1.1	1.46	2.5	2.9	4.2	4.7	5.2	6.1	6.16	6.28
40	30.5 = ℄	20	5		10	20	40	40.2	55 = floor House

2.5 Conc. walk to E.

155.99	152.4	151.31	150.28
+ 2.52	1.33	2.16	3.19
41.6	34.2	20	2.5 = end walk - 4' Conc.
Top of steps at wood porch	Bottom of 8' wood steps on Conc.	on walk	

152.8	152.2	150.9	150.7	149.2	148.9	148.3	147.1	146.6
0.7	1.3	2.6	2.8	4.3	4.6	5.2	6.4	6.9
50	40	20	10		10	20	40	50

146.1	147.62
7.4	5.85
54.6 ground	54.6 floor

153.47

5+19.37 = W. cb.

5+09.37 = opp. P.C. of 10' Rad. Ret.

Cbs + Walks

4+99.37 = W.L. Lamont + Edge of Conc. pave +

T.P. 5.51 148.08 10.90 142.57 — sw. 9'ct. Lamont + Law 142.55' 1807-41

4+95

4+93 - 39.5 = ℄ end. Hedge

4+70

4+40

4+26 - 37.4 Lt. = Beg. ℄ Newly planted Hedge

Lt. ℄ Rt.

5+19.37

Rod	Dist.	Elev.	Note
1.76	90	146.32	Top
2.40	90	145.68	gut.
4.98	40	143.10	Top
5.47	40	142.41	gut.
4.96	30	143.12	Top
5.69	30	142.39	gut.
5.89	20	142.19	
5.91	℄	142.17	
6.19	20	141.89	
6.30	30	141.78	gut.
5.66	30	142.42	Top
6.40	40	141.68	gut.
5.70	40	142.38	Top
9.20	90	138.88	gut.
8.50	90	140.58	Top

5+09.37

Rod	Dist.	Elev.	Note
5.02	20	143.06	Top
5.67	20	142.41	gut.
5.67	10	142.41	
5.70	℄	142.38	
5.83	10	143.25	
6.11	20	141.97	gut.
5.62	20	142.46	Top

4+99.37

Rod	Dist.	Elev.	Note
4.1	40	144.0	
4.69	36.2	143.39	edge walk
5.00	20	143.08	Top
5.61	20	142.47	gut.
5.54	10	142.54	
5.55	℄	142.53	
5.72	10	142.36	
6.06	20	142.02	gut.
5.52	20	142.56	Top end cb.
5.42	36.3	142.66	edge walk
5.2	40	142.9	

148.08

4+95

Rod	Dist.	Elev.
5.7	50	147.8
5.9	40	147.6
6.8	20	146.7
8.6	10	144.9
10.0	℄	143.5
10.4	10	143.1
10.3	20	143.2
9.3	30	144.2
10.0	40	143.5
10.8	50	142.7

4+70

Rod	Dist.	Elev.
5.2	50	148.3
5.6	40	147.9
6.6	20	146.9
7.1	5	146.4
8.0	℄	145.5
8.8	13.	144.7
8.5	20	145.0
8.7	30	144.8
9.8	40	143.6
10.5	50	143.0

4+40

Rod	Dist.	Elev.
4.6	50	148.9
5.1	40	148.4
6.0	20	147.5
6.5	5	147.0
7.1	℄	146.4
7.3	10	146.2
7.5	20	146.0
8.4	40	145.1
9.0	50	144.5

153.47

Law - St.

	Lamont.				
check B.M.	SW. Diamond +		8.69	105.89	106.03
	1.50	114.58	9.59	113.08	
	0.07	122.67	13.02	122.60	
T.P.	0.06	135.62	12.52	135.56	

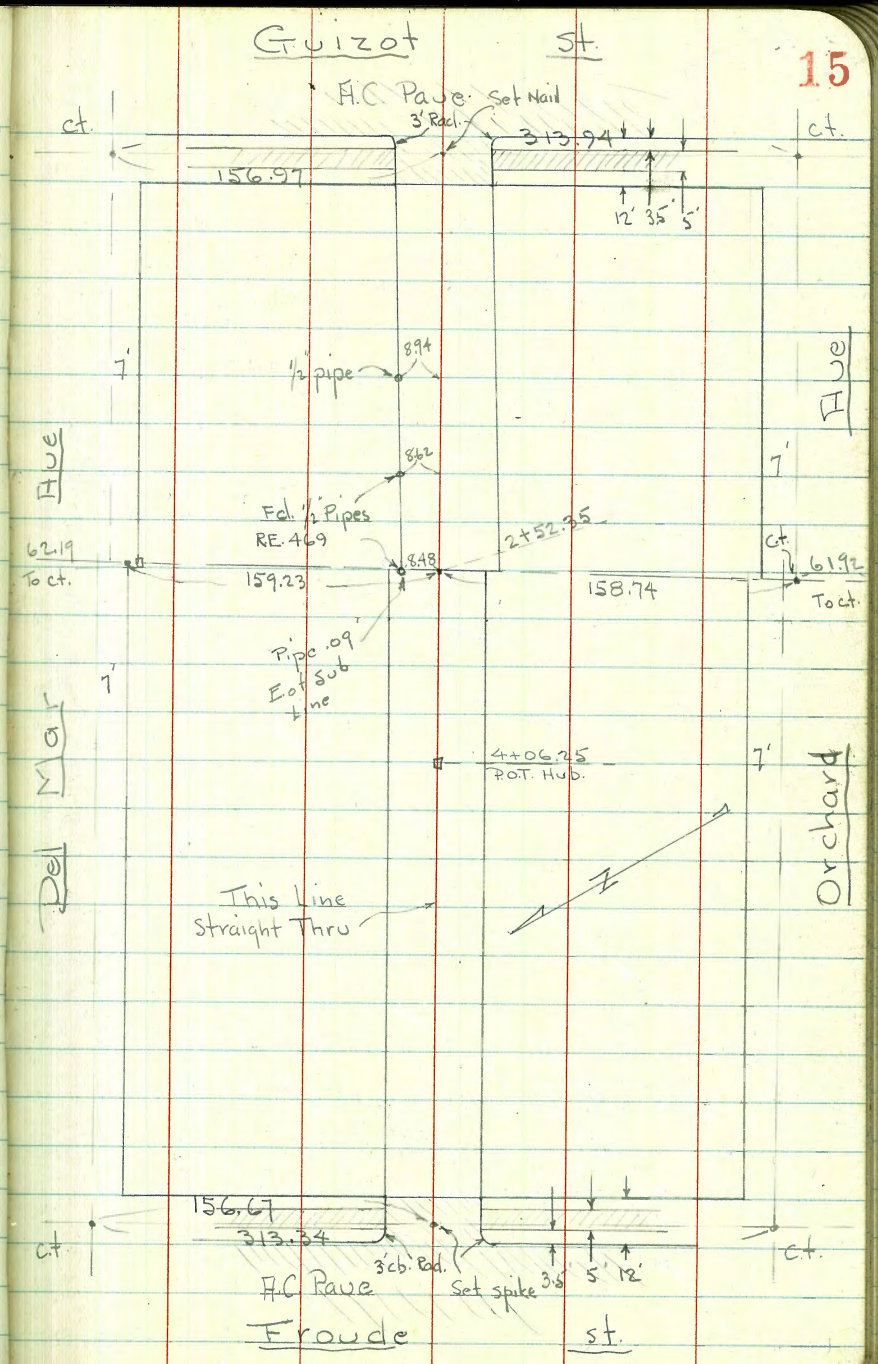
4+39.37 = ℄ Lamont = end.

	Lt.	℄	Rt.
	145.87		
	142.98		
	142.53		
		142.17	
	141.74		
			141.48
			138.83
	2.21 90		
	5.10 40		
	5.55 20		
		5.91	
	6.34 20		
			6.60 40
			9.25 90
		148.08	

X-Sect 20' Alley in Block 95 - Pt. Loma Hts. Map 1106 & Block 11 Ocean Beach

Lot lines seem to be laid out with a jog at the Sub. line - The improvements on Orchard & Del Mar are straight Thru.

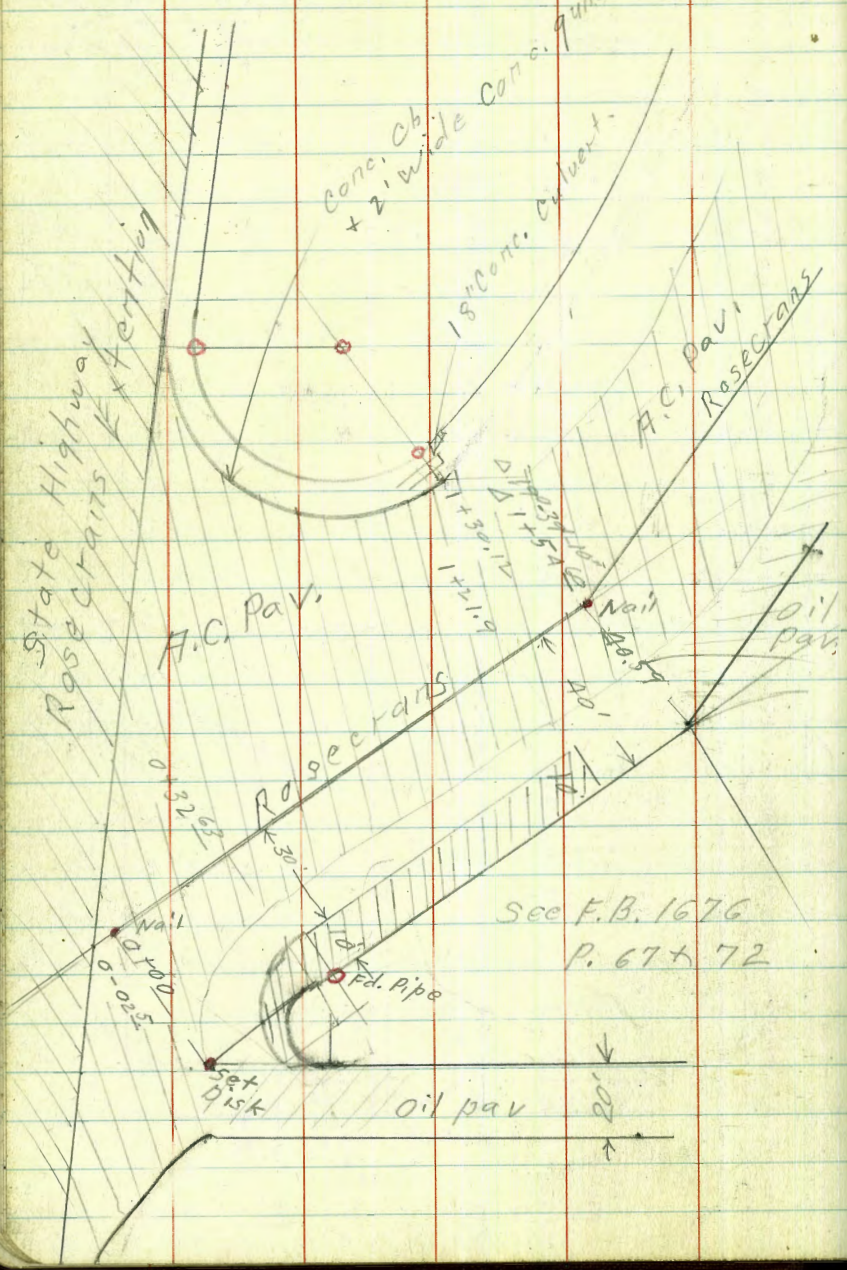
Ran ℄ straight Thru from Guizot to Froude

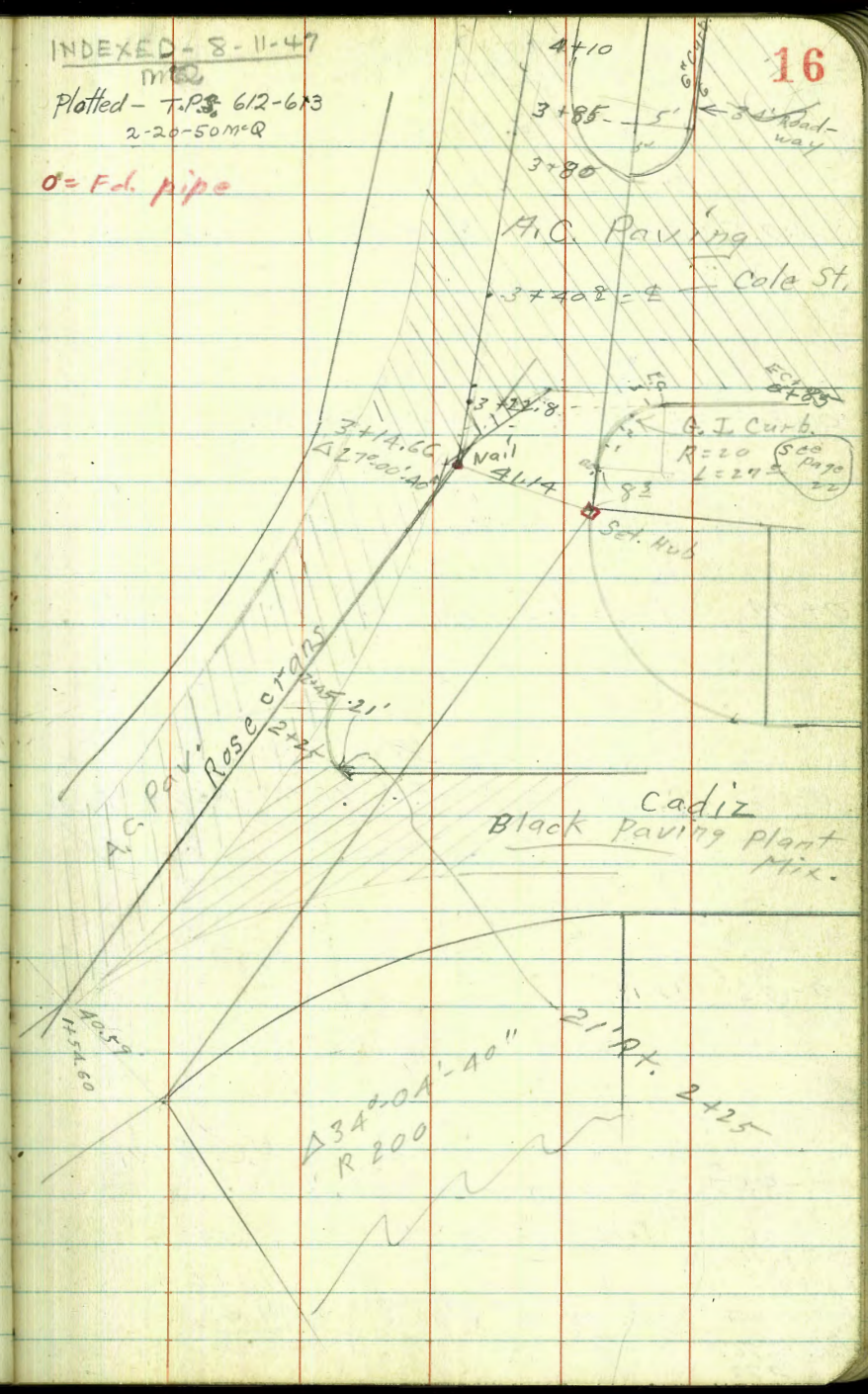


X-Sec. Rosecrans
Seville to Evergreen

INDEXED - 8-11-49
MR
Plotted - T.P.'s 612-613
2-20-50 McQ

O = Fd. pipe





Cross Section Rosecrans
Seville to Evergreen.

Sommermeyer
Sherman
W Moore

W.O. 25001 8-4-47

0+20.2 = 52° Rt. = End Curb Ret.

0+00 = Prop. P.I. on Rt. 90° to B.L.

0-02.5 Cont. (Also see F.B. 1676 - P62 & 72)

0-02.5 Cont

0-02.5 = Take on edge of M.C. Pav.
= Ely. Edge state pav.

5.32 42.45 6.34 37.13

S.W. Bolt. incl. Lytton & Rosecrans F.B. 1676 P73 2.01 43.47 — 41.46

Raise all Elev's. 0.17'

41.63 Rechecked Elev. of B.M.

Base line = ℄ Rosecrans + 40' W'ly from Ely. line as shown on sketch P.16

B.L.

38.16 | 36.57 | 35.96 | 36.81 | 35.9 | 36.79
4.29 / 29 State Ely. Pav | 5.88 | 6.49 / 14 | 6.64 / 26.5 Edge Pav | 6.5 / dif 32 | 5.166 / 52 End Cl

37.74 | 37.09 | 36.83 | 36.51 | 36.41
4.71 / 3 Edge State Hy. pav. | 4.56 | 5.42 / 20 | 5.94 / 40 P.I | 6.04 / 64.2 Sly. line alley

38.40 | 37.72 | 38.93 | 38.21
4.07 / 200 Curb | 4.73 / 200 Gutt | 3.52 / 175 Ct. | 4.14 / 175 gutt

39.08 | 38.43 | 39.14 | 38.48 | 38.21
3.37 / 150 Top Ct. | 4.02 / 150 gutt | 3.31 / Top Ct 137 | 3.97 / 137 Curb. Ret B.C. gutt. | 4.14 / 90 Top Ct.

38.46 | 38.48 | 38.30 | 38.11 | 37.88 | 37.56 | 37.52 | 37.87
3.99 / 100 | 3.97 / 75 | 4.15 / 50 | 4.34 / 25 | 4.57 | 4.90 / 25 | 4.93 / 52 | 4.58 / 90 gutter

42.45

Rosecrans

Lt BL Rt.

1+00
- 10.52 / 36.5 top cl.
- 31.33 — 11.12 / 36.5 Gutt
- 31.35 — 11.10 / 34.4 Edge 2' gutter
- 31.41 — 11.04 / 24
- 31.76 — 10.69 / 15
- 31.78 — 10.67
- 32.03 — 10.42 / 11 Edge Pav
- 31.7 — 10.7 / 30
- 32.25 — 10.20 / 30 top cl.

0+75 Cont
- 36.39 — 6.06 / 65.3 top cl.
- 35.74 — 6.71 / 65.3 gutt
- 35.21 — 7.24 / 59.5 Edge 2' Conc gutter

0+75
- 34.80 — 7.65 / 50
- 34.53 — 7.92 / 42
- 34.30 — 8.15 / 27
- 33.39 — 9.06 / 8
- 33.32 — 9.13
- 33.42 — 9.03 / 14 Edge Pav
- 33.2 — 9.2 / 30 dirt
- 33.81 — 8.64 / 30 cl. top

0+40[E] 30' Rt. = Curb. Ret. E.C.
- 38.48 — 3.97 / 55.5 Edge Hy pav.
- 38.26 — 4.19 / 50
- 36.77 — 5.68 / 25
- 35.40 — 7.05
- 35.02 — 7.43 / 18 Edge pav
- 35.1 — 7.3 / 30 dirt
- 35.91 — 6.54 / 30 top cl.

0+32[63] Prop. E.C. 40' Rt.
- 38.38 — 4.07 / 45.6 Edge Hy. pav
- 36.98 — 5.47 / 20
- 35.88 — 6.57
- 35.26 — 7.19 / 20.5 Edge pav
- 35.6 — 6.8 / 31.6 top cl.
- 36.26 — 6.19 top cl.

0+23[1] 40' Rt. = Int. Curb Ret. + S. Tang.
- 36.2 — 6.2 dirt 40
- 36.66 — 5.79 Curb 40

42.45

Rosecrans

Lt. B.L Rt.

1+30 12 Cont.

32.1 0.0 70 — 32.6 +0.5 54

1+30 12 Cont. 45° = ℄ outlet 18" conc. Culvert

30.8 1.3 50 — 26.77 5.30 45.3 Invert 18" Pipe — 24.57 7.5 45 Ord — 29.2 29 3.8

1+30 12 = Cross End curb. on left.

T.P. 2.16 32.07 12.54 29.91

28.97 3.10 31.3 End Cl. — 28.37 3.70 31.3 Cut. — 28.45 3.62 29.3 End conc. gutt. — 32.07 — 30.27 L.80 — 30.47 1.60 6 Edge pav. — 30.0 2.1 25 — 29.4 2.7 40 — 29.1 3.0 50

1+21 9 Cont.

~~T.P.~~ ~~12.54 29.91~~

33.4 9.0 60 — 33.0 9.1 57 — 30.5 11.9 48

1+21 9 Cont.

29.58 12.87 31.3 top. Cl. — 28.97 13.48 31.3 Cut. — 31.14 11.31 40 Backedge walk — 30.4 12.0 40 Ord. — 29.7 12.7 50

1+21 9 = End Walk + Cl. on Rt.

42.45

29.03 13.42 29.4 Edge 2' Conc. Cut — 29.99 12.46 10 — 30.67 11.78 — 30.97 11.48 8 Edge pav. — 30.4 12.0 30 — 31.03 11.42 30 Top Cl.

42.45

Rosecrans

N l/y Lt. | B.L | S l/y Rt.

1+75 Cont.

1+75 E.P. Signifies Edge of paving

1+54 Cont.

1+54 Cont.

(L 19°-39'-10" Lt (split of L)
1+54 = B.C. on Cadiz St. = Lt. on B. Line

T.P. End walk 0.17 31.31 0.93 31.14
40' Rt 1+21.2

1+40 23' Lt. = Jog in pav.
32.07

30.2 / 1.1 / 40
29.6 / 1.7 / 54
23.0 / 8.3 / 46

23.2 / 8.1 / 41
25.4 / 5.9 / 40
25.95 / 5.36 / 22 E.P.
26.93 / 4.38 / 13
27.82 / 3.49
27.83 / 3.48 / 1
27.66 / 3.65 / 13 E.P.
27.2 / 4.1 / 25
26.3 / 5.0 / 40
25.4 / 5.9 / 50

31.5 / +0.2 / 75
31.5 / +0.2 / 62

24.8 / 7.3 / 53
24.3 / 7.0 / 43
26.7 / 4.6 / 42
27.1 / 4.2 / 25

27.20 / 4.11 / 23.3 Edge Pav.
28.14 / 3.17 / 13
28.98 / 2.33 / 3
29.02 / 2.24
28.99 / 2.32 / 1 Edge pav.
28.1 / 3.2 / 25
27.2 / 4.1 / 40.6
26.5 / 4.8 / 30

31.31

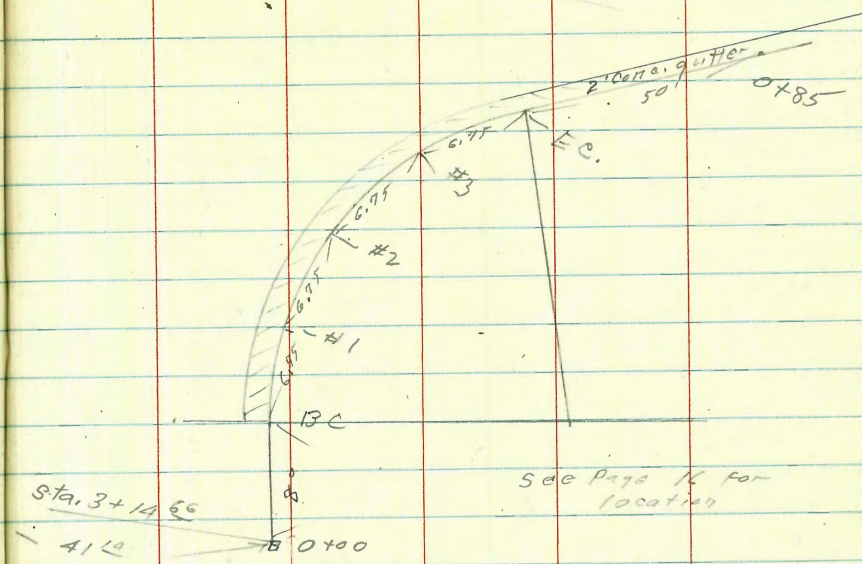
27.91 / 4.16 / 23 Edge Pav.
29.81 / 2.26

32.07

Rosecrans

		Lt.	B.L.	Rt.
2+75		20.2 11.1 65	19.3 · 19.7 12.0 · 11.6 42 · 33	20.7 · 20.10 · 21.53 · 22.39 · 22.36 · 21.9 · 21.2 · 21.1 10.6 · 11.21 · 9.78 · 8.92 · 8.95 · 9.4 · 10.1 · 10.2 29 · 28 · 13 · · 1 · 20 · 40 · 50 Burm · E.P. · · · E.P.
2+45		22.2 9.1 60	20.7 · 21.9 · 21.3 · 21.68 · 24.88 · 23.92 · 23.84 · 24.0 · 23.5 · 23.15 · 22.82 10.6 · 7.4 · 9.0 · 9.63 · 8.43 · 7.59 · 7.47 · 7.3 · 7.8 · 8.16 · 8.49 45 · 30 · 28 · 25 · 13 · · 3 · 20 · 40 · 50 · 60 Burm · E.P. · · · · E.P. · Dirt · · E.P. · Pav.
2+25 Cont			24.8 · 23.5 · 21.1 · 21.0 · 22.7 6.5 · 7.8 · 10.2 · 10.3 · 8.6 60 · 47 · 42 · 40 · 39	
2+25	26' Lt.: start 3' wide tailed burm		23.2 · 23.1 · 22.58 · 23.90 · 24.81 · 24.94 · 25.16 · 24.63 · 24.19 8.1 · 8.2 · 8.73 · 7.41 · 6.50 · 6.37 · 6.15 · 6.68 · 7.12 28 · 26 · 24 · 13 · · 3.2 · 21 · 20 · 50 · · E.P. · · · · · · ·
2+00 Cont.			27.5 · 26.2 · 22.0 · 22.3 · · 25.1 3.8 · 5.1 · 9.3 · 9.0 · · 6.2 70 · 53 · 47 · 42 · · 50	
2+00	(E.P.: Edge Paving.)		23.8 · 24.5 · 24.10 · 25.28 · 26.25 · 26.34 · 26.53 · 25.99 · 25.6 7.5 · 6.8 · 7.21 · 6.03 · 5.06 · 4.97 · 4.78 · 5.32 · 5.7 41 · 25 · 23 · 19 · · 3 · 15 · 21 · 40 · · E.P. · · · · · E.P. ·
		31,31	31,31	

Rosecrans



T.P. End of curb	4.37	22.41	13.27	18.04										
3+14.66	Cont.					18.7 / 12.6 / 60	18.4 / 12.9 / 40	19.4 / 11.9 / 37 Burm						
3+14.66	40' Rt.= start O.I. curb. see sketch p.22 ∠ 27° 00'-40" Lt. Section on split of ∠. 2' Lt = ∠ in paving edge				18.52 / 12.79 / 34 E.P.	20.13 / 11.18 / 16	20.76 / 10.57 / 5	20.61 / 10.70 / 2 E.P.	20.3 / 11.0	18.9 / 12.4 / 20	18.04 / 13.27 / 41.14 Grd + top curb			
3+00				18.9 / 12.4 / 3.8	19.6 / 11.7 / 34 Burm	18.90 / 12.41 / 32 E.P	20.51 / 10.80 / 15	21.25 / 10.06 / 2 E.P.	21.2 / 10.1	19.9 / 11.9 / 20	18.9 / 12.4 / 35	18.9 / 12.4 / 50		
		31.31							31.31					

Rosecrans & Cole

Levels S.W. Return

Station	Remarks	Top Cb.	Gutter	Edge 2' conc gutter
0+85		17.25 5.16	16.66 5.75	16.79 5.62
0+35 =	E.C	17.82 4.59	17.56 4.85	17.63 4.78
0+28^{25}	= #3	17.88 4.53	17.57 4.84	17.67 4.74
0+21^{50}	= #2	17.94 4.47	17.64 4.77	17.76 4.65
0+14^{75} =	#1	17.98 4.43	17.68 4.73	17.79 4.62
0+08 =	BC start 2' wide conc. gutter	18.02 4.39	17.73 4.68	17.86 4.55
0+00	stations on curb. sketch P. 22	18.04 4.37		

22.41

22.41

Rosecrans - Continued | Lt. | B.L. | Rt.

5+65.15
W.L. Rosecrans
T.P. Pipe 4.33 18.66 8.08 14.33

4+10
6½ Rt. = ℄ E+W. Roadway
13' Rt. = ∠ in paving edge

17.3 5.1/60 · 16.9 5.5/40 · 16.3 6.1/23 · 16.5 5.9/20 Burm · 15.82 6.59/17 P.E. · 17.07 5.34 · 17.60 4.81/13 P.E · 17.2 5.12/40 · 17.38 5.03/45.6 top Cl. · 16.73 5.68/45.6 Gutt · 17.04 5.37/62.6

3+85
45' Rt. = E.C. Curb Ret.
25' Rt. = ∠ in Pav. edge

17.72 4.69/25 · 17.50 4.91/45.6 Top. Cl. · 17.01 5.40/45.6 Gutt.

3+80
39 Rt = B.C. 5' Rad. Ret. of N.Ely + S.Wly. Curb.

17.6 4.8/60 · 16.7 5.7/26 · 17.2 5.2/23 Burm · 16.45 5.96/21 · 17.37 5.04/10 · 18.09 4.32 · 18.40 4.01/10 · 17.90 4.51/25 · 17.22 5.19/39.7 Gutt · 17.57 4.84/39.7 Top Cl. · 17.39 5.02/62.6

3+58.8

25 E.P. · 13 · 18.91 3.50 · 19.06 3.35/6 · 18.27 4.14/22 · 17.72 4.69/40 · 17.55 4.86/62.6

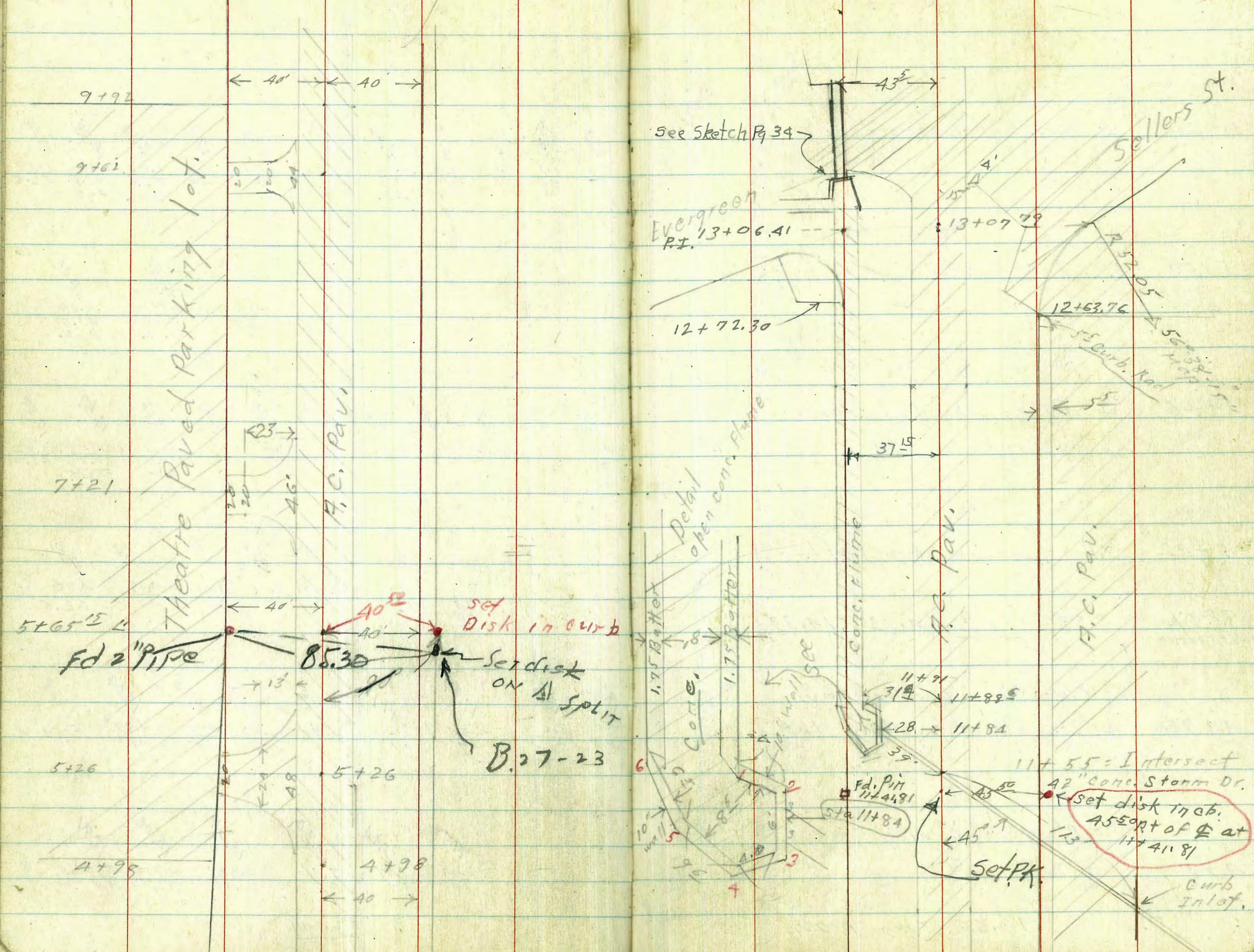
3+40.8
℄ Cole to So.

18.6 3.8/60 · 17.9 4.5/35 · 18.8 3.6/32 Burm · 17.97 4.44/29 E.P. · 19.11 3.30/13 · 19.81 2.60 · 18.99 3.42/15 · 18.25 4.16/30 · 18.04 4.37/40 · 17.27 5.14/90

3+24.8
21.5 Rt. = ∠ in paving edge

19.97 2.44/15 · 20.44 1.97/4 · 20.30 2.11 · 18.59 3.82/21.5 · 18.06 4.35/34 · 17.91 4.50/40

22.41 · 22.41



9+92
9+61
7+21
5+65.15
5+26
4+98
Theatre Paved parking lot.
P.C. Pav.
40'
40
23
46'
40
40.52
Set Disk in curb
Fd 2" Pipe
85.30
Set disk on Δ spot
B. 27-23
See Sketch Pg 34
43.5
Sellers St.
Evergreen
P.I. 13+06.41
13+07.79
12+72.30
R 52.05
12+63.76
5.5 Curb. Rad.
5.5
37.15
Detail open conc. flume
1.75 Batter
18
Conc.
Conc. flume
P.C. Pav.
11+91
31.9
11+88.5
28
11+84
39
11+55 = Intersect 42" Conc. Storm Dr.
Fd. Pin 11+41.81
Sta 11+84
45.50
Set disk in cb. 45.50 rt of ℄ at 11+41.81
45
Set PK
Curb Inlet.

Rosecrans

		Lt.	℄	Rt.
5+65.15	= L. Wly. line Rosecrans	14.97 / 2.74 / 60 / on oil	14.53 / 3.18 / 40 / E.P.	13.6 / 4.1 / 25
		13.22 / 4.49 / 15 / E.P.	13.53 / 4.18	13.60 / 4.11 / 15
				13.7 / 4.0 / 40
5+50	E.C. Park lot drive	13.64 / 4.07 / 15 / E.P.	13.86 / 3.85	
5+26	℄ Drive on left.	15.26 / 2.45 / 60 / on park lot oil pav.	14.75 / 2.96 / 40	14.10 / 3.61 / 15 / E.P.
		14.34 / 3.37	14.46 / 3.25 / 15 / E.P.	14.5 / 3.2 / 40
5+02	start drive on left. =	14.38 / 3.33 / 13 / B.C. drive	14.90 / 2.81	
T.P. Pipe 40'Lt 5+65.15	3.38	17.71	4.33	14.33
			17.71	
	Black plant mix pav.			
4+98	44' Lt. = start parking lot.	15.51 / 3.15 / 60	15.09 / 3.57 / 44 / Cor. Park lot.	14.39 / 4.27 / 15 / E.P.
		14.98 / 3.68	15.29 / 3.37 / 15 / E.P.	15.6 / 3.1 / 40
		15.55 / 3.11 / 45.6 / Curb	15.06 / 3.60 / 45.6 / Gutt	15.59 / 3.07 / 62.6
	E.P. = Edge paving			
4+50		16.8 / 1.9 / 60	15.8 / 2.9 / 40	15.3 / 3.4 / 17 / End Burm.
		15.10 / 3.56 / 16 / E.P.	16.03 / 2.63	16.48 / 2.18 / 14 / E.P.
		16.7 / 20 / 40	45.5 / Curb	47.5 / Gutt
	18.66 From P. 24	18.66		

Rosecrans

	Lt.	℄	Rt.
7+21 ℄ Drive on Left.	13.43 4.28 40	10.24 7.47 15	10.32 7.39 12
		10.43 7.28	
6+98 Cont.	13.93 3.78 60 Par.		10.99 6.72 45.6 Cent
			10.51 7.20 45.6 Out
			10.92 6.79 62.6
6+98 = B.C. Drive on left.	13.63 4.08 40 E.P.	13.4 4.3 40 Crd.	12.1 5.16 25
	10.70 2.01 15 E.P.	10.89 6.82	10.55 7.16 15
			14.0 6.7 21
			14.0 6.7 40
6+50	13.86 3.85 40 E.P.	13.5 4.2 40	12.8 4.9 25
	11.76 5.95 15 E.P.	11.76 5.95	11.58 6.13 15
			12.1 5.6 21
			12.1 5.6 40
6+00 Cont.	14.66 3.05 60	14.36 3.25 40 E.P.	13.07 4.64 45.6 top ch.
			12.68 5.03 45.6 Out.
			13.09 4.62 62.6 ℄ Rd. way
6+00	14.1 3.6 40	13.8 3.9 25	12.6 5.2 18
	12.6 5.90 EP 15	12.85 4.86	12.78 4.93 9
			12.77 4.94 15
			13.1 4.6 40

17.71

17.71

Rosecrans

			Lt.	℄	Rt.
T.P.	2.33	10.18	9.86	7.85	
8+50			10.70 / 7.01 / 40 E.P.	9.9 / 7.8 / 30	7.0 / 9.7 / 15	7.63 / 10.08 / 14 E.P.	7.83 / 9.88	7.74 / 9.97 / 15 E.P.	7.9 / 9.8 / 20	8.0 / 9.7 / 40
8+00	Cont.							9.44 / 7.27 / 45.6 Cut.		8.80 / 8.91 / 62.6
8+00			13.85 / 3.86 / 72	12.80 / 4.91 / 40 Grdi + Pav	12.0 / 5.7 / 30	8.76 / 8.96 / 15	8.80 / 8.91	8.66 / 9.05 / 15	9.1 / 8.6 / 23	9.2 / 8.5 / 40	8.89 / 8.82 / 45.6 Cb.
7+71	Cont.							9.03 / 8.68 / 45.6 Cut.		9.37 / 8.34 / 67.6
7+71	72' Lt. = S/y Cor Loma Theatre		14.22 / 3.49 / 72	13.51 / 4.20 / 40 Grd. + Pav.	12.4 / 5.3 / 30	9.09 / 8.62 / 15 E.P.	9.35 / 8.36	9.24 / 8.47 / 15 E.P.	9.8 / 7.9 / 23	9.7 / 8.10 / 40	9.48 / 8.23 / 45.6 Cb.
7+44	E.C. Drive on left.				9.77 / 7.94 / 15 E.P.	9.97 / 7.74					
		17.71				17.71					

Rosecrans

		Lt.			℄			Rt.	
	Break in parking lot grade	6.92	6.39	6.0	5.11	5.23	4.77	5.3	5.7
		3.26	3.79	4.2	5.07	4.95	5.41	4.9	4.5
		72	40 Pav't Grad	25	13 EP.		15 EP.	22	40
9+84	E.C. Drive on left.								
		7.21	6.52		5.51	5.59			
		2.97	3.66		4.61	4.59			
		72	40 ℄ Drive		13 E.P.				
9+62	℄ Drive on Left.								
			8.22		7.77				
			1.96		2.41				
			92		72				
9+40	Cont.								
	92' Lt. = Ely. Cor. Loma Theatre	7.02	6.9	5.94		6.06	5.66	5.8	6.2
	= B.C. Drive on Left.	3.16	3.3	4.19		4.12	4.52	4.4	4.0
		40 E.P	40 Grd	E.P. 13			14 E.P	20	40
9+40									
			9.52				7.10	6.58	6.41
			3.66				3.08	2.60	3.27
			72 Pav.				45.5 ℄	45.5 Out	62.5 ℄ Roadway
9+00	Cont.								
		8.49	8.3	7.8	6.81	6.84	6.65	6.58	6.8
		1.69	1.9	2.4	3.37	3.34	3.53	3.59	3.4
		40 E.P.	40 Grd	30	13 EP		10	15 E.P	20
9+00									
8+98	72' Lt. = ℄ in Theatre Bldg.								
	10.18					10.18			

Rosecrans

	Lt.		℄		Rt.		
10+60	0.3 9.9 40	0.4 9.8 24	3.6 6.6 70	3.58 6.60 15 E.A	3.74 6.44	3.42 6.76 15 E.P.	3.7 6.5 10	4.8 5.4 40
10+20	1.3 8.9 80	1.4 8.8 40	2.4 7.8 24	4.3 5.9 70	4.27 5.91 15 E.A	4.47 5.71	4.13 6.05 15	4.5 5.7 18	5.2 5.0 40
10+05 Cont.				6.8 3.4 75		5.10 5.08 45.5 Gut.		5.49 4.69 62.5	
10+05	6.6 3.6 55	5.4 4.8 40	4.9 5.3 25	4.48 5.70 15 E.A	4.64 5.54 13	4.79 5.39	4.33 5.85 15 E.A	4.9 5.3 20	5.4 4.8 20	5.68 4.50 45.5 Curb
9+92 Cont.				7.13 3.05 72						
9+92 40'Lt. = End parking lot.		6.58 3.60 40 pav. + Grd.	5.3 4.9 25	4.80 5.38 14 E.P	5.04 5.14					
10,18					10,18					

Station	Lt.			℄	Rt.		
Bottom of Flume →	-1.77 / 9.01 / #1	-1.66 / 8.90 / #2	-1.73 / 8.97 / #3		-1.82 / 9.06 / #4	-1.79 / 9.03 / #5	-1.79 / 9.03 / #6
Top of wall →	0.39 / 6.85 / #1	2.73 / 4.51 / #2	2.68 / 4.56 / #3	0.0 / 7.24	0.38 / 6.86 / #4	+0.07 / 7.17 / #5	-0.23 / 7.47 / #6

Rods as per stations shown by Red numbers in detail sketch on page 25.

#1 & #6 are opposite sta. 11+88.6

T.P. Chisel □ ctr. Hd wall Lt 4.54 7.24 7.48 2.70

∠ 45° - Rods. Along drain line

11+55 = Intersect 42" Conc. Drain

intake	-1.79 / 11.97 / 39 Invert	+2.69 / 7.49 / 39 Top Hd. wall	2.57 / 7.61 Paving	4.30 / 5.88 / 113 Gutter Cb. Inlet	-2.02 / 12.20 / 113 Invert

Station									
11+50	-0.9 / 11.1 / 40	-0.6 / 10.8 / 34	+2.4 / 7.8 / 25	2.61 / 7.57 / 15 E.P.	2.58 / 7.60	2.22 / 7.96 / 15 E.P.	3.6 / 6.6 / 25	3.7 / 6.5 / 40	
11+00 Cont.		0.1 / 10.1 / 80				4.24 / 5.94 / 45.5 Out.	4.71 / 5.47 / 62.5		
11+00	0.0 / 10.2 / 40	0.1 / 10.1 / 27	3.0 / 7.2 / 20	3.16 / 7.02 / 15 E.P.	3.17 / 7.01	2.91 / 7.27 / 15	3.0 / 7.2 / 16	4.7 / 5.5 / 40	4.87 / 5.31 / 45.5 Cb.

					Lt.	℄	Rt.			
12+63.74	40 Rt.	Prop. B.C. also curb E.C.			-1.68	-0.02	+1.2	1.28	1.67	1.60	1.8	2.2	2.8
					7.91	6.25	5.0	4.95	4.56	4.63	4.4	4.0	3.4
					33.65	31.9 Top	21	15 E.P.		15	16	25	34
12+58.3	45.2 Rt.	Curb B.C.								3.90		3.51	
										2.33		2.66	
T.P.	3.53	6.23	4.54	2.70					6.23	45.5 Sl.		45.5 Cut	
12+30	Cont.				-0.6	-0.09	-1.70						
					7.8	7.33	8.94						
					60	43.2 Top Flume	41.45 Bottom						
12+30					-1.71	-0.08	+1.2	1.39	1.81	1.71	2.0	3.0	3.2
					8.75	7.22	6.0	5.85	5.43	5.53	5.2	4.2	4.0
					33.45 Bottom	31.7 Top Flume	20	15 E.P.		15. E.P.	16	30	40
11+91	Cont.				-0.2	-0.17	-1.79			4.24	3.82		4.09
					7.4	7.41	8.03			3.00	3.42		3.15
					60	43.0 top	41.45 Bottom			45.5 Curb	45.5 Cut		61.5
11+91	Start Reg. shape Flume on left.				-1.80	-0.15	+2.0	+2.01	2.14	2.00	3.1	3.5	3.6
					9.04	7.39	5.2	5.23	5.10	5.24	4.1	3.7	3.6
					33.45 Bottom	31.9 top	27	15 E.P.		15 E.P.	23	40	44
					Flume								
		7.24							7.24				

see page 25

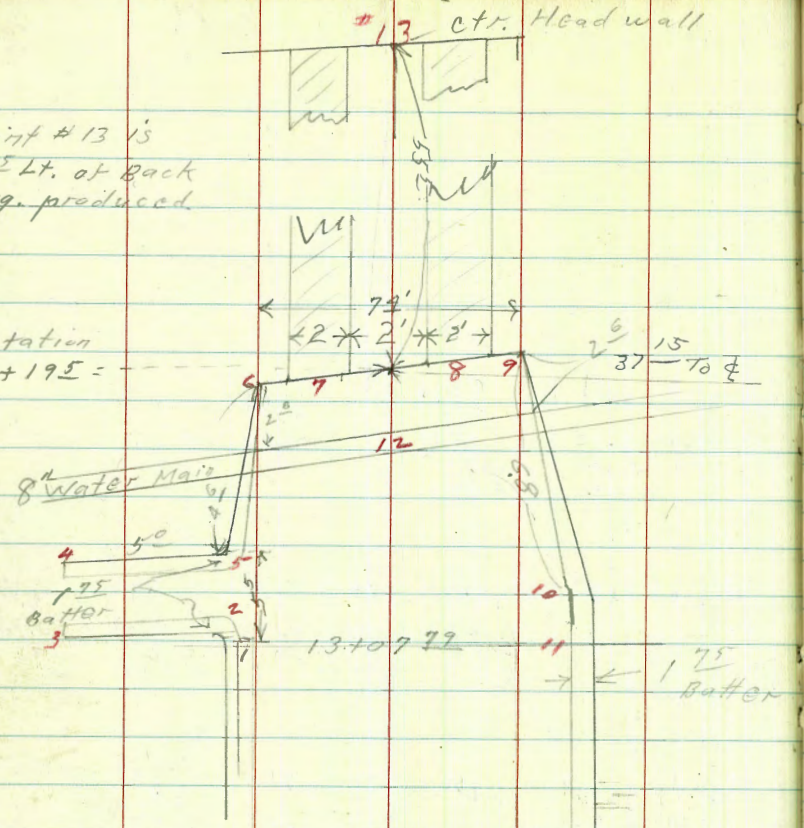
Rosecrans

Lt. ℄ Rt.

Each reading is written as a value over a rod reading, with the distance and any note underneath. It is given here as value, rod reading / distance and note.

Station	Remarks	Readings (left to right)
13+07 79	Cont.	-0.4, 6.6 / 75; +0.4, 5.8 / 50; -0.09, 6.32 / 43.50 Top.; -1.66, 7.89 / 41.75 Bottom; +3.39, 2.84 / 58
13+07 79	15'Rt + 19'Rt. = Δs in Pav. edge = E.C. on Rt.	-1.62, 7.85 / 33.75 Bottom Flume; -0.01, 6.24 / 32.9 top; +0.7, 5.5 / 23; 1.16, 5.07 / 13 E.P.; 1.54, 4.69; 1.75, 4.48 / 15 E.P. Δ in pav; 1.95, 4.28 / 19 Δ in Pav.; 3.13, 3.10 / 45
12+72 30	Cont. / 42' Rt. = Aprox. Prop. line	-0.3, 6.5 / 60; 0.0, 6.2 / 45; -0.11, 6.34 / 43.4 top Flume; -1.69, 7.92 / 41.15 Bottom; -1.68, 7.91 / 33.15 Bottom; 3.61, 2.62 / 42.4; 3.65, 2.58 / 62.5
12+72.30	B.C. on Lt.	-0.03, 6.26 / 31.9 Top Flume; +1.0, 5.2 / 23; 1.22, 5.01 / 15 E.P.; 1.65, 4.58; 1.41, 4.82 / 15 E.P.; 1.7, 4.5 / 16 Grd.; 2.54, 3.69 / 27.7 E.P.; 3.53, 2.70 / 40
12+63.76	Cont.	-0.1, 6.3 / 60; +0.1, 6.1 / 45; -0.10, 6.33 / 42.90 top Flume; -1.68, 7.91 / 41.65 Bottom; 3.7, 2.5 / 40 Grd; 3.65, 2.58 / 40 Pav; 3.93, 2.30 / 40 Top Cb.; 3.71, 2.52 / 62.5

6.23 6.23



6.23

Rods by number as shown opposite.

-1.66					
7.89					
#13 Invert 24" pipes					
-0.16	-1.69	-0.01	-1.62		-0.16
6.37	7.92	6.24	7.85		6.39
Top	bottom	top	bottom		top 8" C.I. pipe
#10		#11			#12
+1.06	-1.71	+1.06	-1.69	+1.06	-1.64
5.17	7.94	5.17	7.92	5.17	7.87
top	bottom	top	bottom	top	bottom
Hd wall #1 pipe		Hd wall #8 pipe		#9	
-0.09	+1.71	-0.04	-1.69	+1.05	-1.72
6.32	7.94	6.27	7.92	5.18	7.95
top	bottom	top	bottom	top	bottom
#4		#5		#6	
-0.09	-1.66	-0.13	-1.69	-0.09	-1.72
6.32	7.89	6.36	7.92	6.32	7.95
#1 top	#1 Bottom	top	bottom	top	bottom
		#2		#3	

6.23

Orig. B.M. Page 17	41.46 ~~(21.46)~~		1.92	41.41 ~~21.41~~	41.46 ~~21.46~~
T.P.	8.60	43.33	0.34	34.73	
T.P.	12.72	35.07	0.30	22.35	
T.P.	10.95	22.65	1.54	11.70	
T.P.	9.31	13.24	2.30	3.93	
		6.23			

Indexed
C.S.K.

Cross section Alley
Blk. 55 Normal Heigths

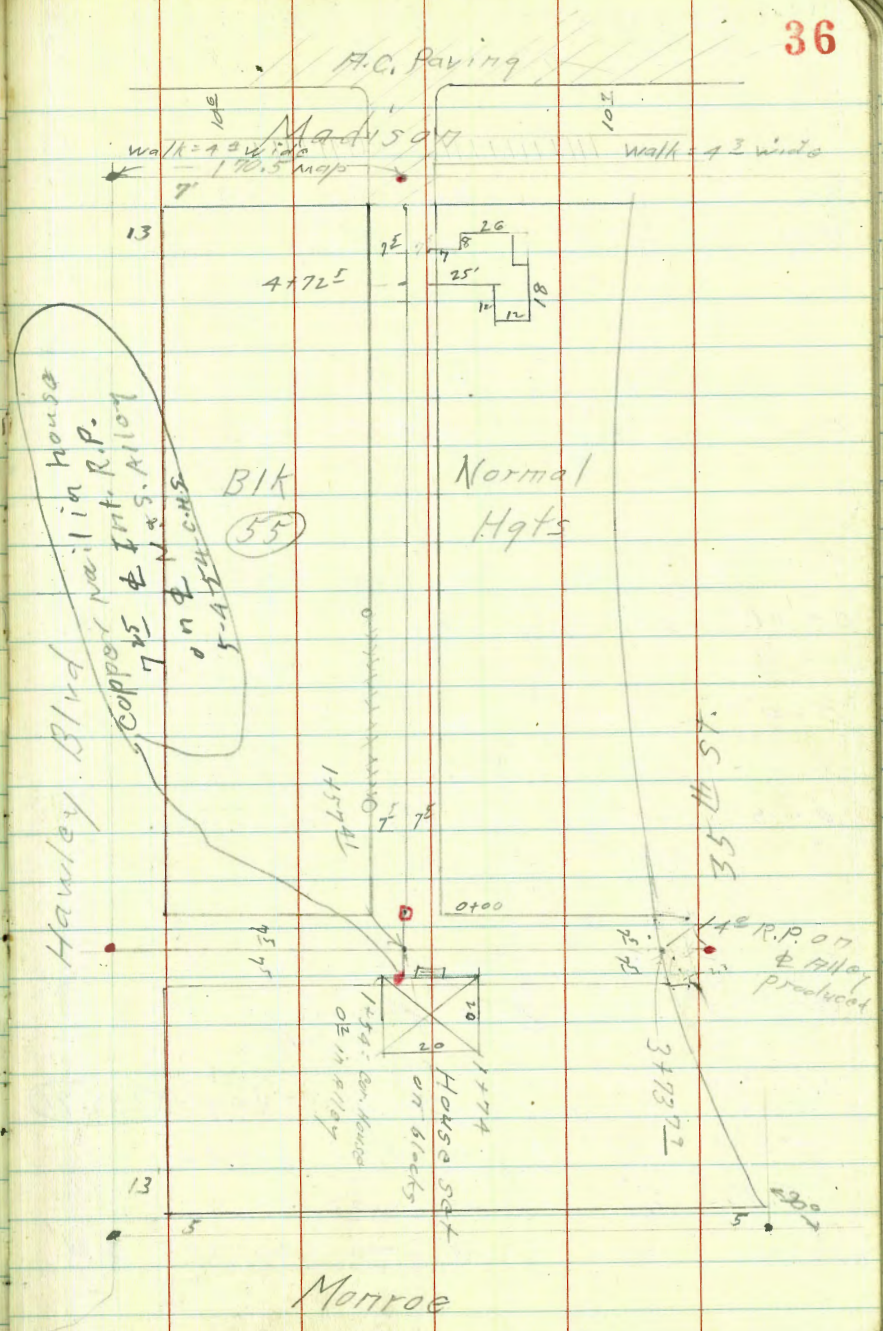
Summermeyer
W. Moore
Sherman
Lamore

8/22/97

W.O. # 31199

• = Fd. L + T.
• = Set nail in paving
□ = " Hub + Disk

Reduced by Wm. K. Lear



East + West Alley Blk. 55 Normal Hgts.

Lt. = No. ℄ Rt. = So.

Sta.	Remarks					Right page readings (elev. / rod / dist. / desc.)
0 + 00						390.25 5.1/10; 390.15 5.2/7.5; 389.95 5.4; 390.05 5.3/7.5; 390.35 5.0/8; 390.35 5.0/20
0 - 05						389.74 5.61/7.5 pav; 389.59 5.76 pav; 389.74 5.61/7.5 pav
0 - 01.	End of paving					390.2 5.2/7.5 Grd.; 389.80 5.55/7.5 Pav.; 389.42 5.93 Pav; 389.72 5.63/7.5 Pav.; 389.9 5.5/7.5 Grd.
0 - 05	See →					
0 - 10	Inside of walk + End curb.					389.82 5.53 walk; 389.76 5.59/7.5 pav; 389.60 5.75; 389.73 5.62/7.5 Pav + walk
0 - 25	E. Curb line Hawley					390.04 5.31/100 top. cl.; 389.39 5.96/100 gutt; 389.68 5.67/7.5 Top cl.; 389.02 6.33/7.5 gutt.; 389.03 6.32; 389.13 6.22/7.5 Gutt.; 389.70 5.65 top cl.; 389.10 6.25/100 Gutt; 389.53 5.82/100 top cl.
S.E.B.P. 34th + Monroe.	Does Not look to be in good shape		6.45	388.90	(388.71)	395.35
T.P	5.75	395.35	5.53	389.60		
T.P.	3.48 ~~3.43~~	395.13 ~~395.08~~	5.03	391.65		
S.E.B.P. Wilson & Monroe	4.46	396.68	—	392.22	B.M.	

2x2 Hub. 0+00 N+S Alley T.P.	5.74	397.15	3.94	391.41	Lt.	℄	Rt.
1+19	4^8 Rt. = pole P.A. 3474						
1+32^5	7^1 Rt. = End board fence				391.6 3.8/7.5	391.6 3.8	391.6 3.8/7.5
1+00	7^2 Rt. = End picket fence. start board fence.			391.1 4.3/20	391.4 4.0/7.5	391.6 3.8	391.6 3.8/7.5
							391.8 3.6/20
0+91	13' Rt. = ℄ Sing. Gar. dirt floor						392.6 2.8/13
0+83	16^4 Lt. = ℄ Sing Gar. conc. floor; 8^5 Lt. = ℄ Level Edge Conc. Apron		391.57 3.78/16.3 Gar floor	391.37 4.03/8.5 Edge Apron	391.15 4.2/7.5	391.5 3.9	391.4 4.0/7.5
+51	6^1 Rt. = Pole # A 3456						
0+50					391.4 4.0/7.5	391.1 4.3	391.3 4.1/7.5
0+49^7	7^5 Rt. = Start picket fence						
0+28	6^1 Rt. = Ctr. Dead man						
0+25					391.0 4.4/7.5	390.8 4.6	390.9 4.5/7.5
		395.35					

395.35

		Lt.	℄	Rt.	
2+00	7.5 Rt. = start post + wire fence	391.9 5.2 7.5	391.8 5.4	391.8 5.4 7.5	
1+99	8° Rt. = End shed				
1+87	8.1 Rt. = End board fence start shed				
1+74	7.5 Rt. = Start board fence 7.5 Rt. = N.E. Cor. 20x20 House				
1+64.91	= E. Line N. + S. Alley	391.7 5.5 7.5	391.7 5.5	392.0 5.2 7.4 At House	
1+61	7.3 Rt. = ℄ door way to house 6.5 Rt. = ℄ 3.5 wide step.			391.9 5.3 C.4 Grd	392.91 4.24 top step 6.7	393.50 3.65 door sill 7.3
1+54	7.3 Rt. = N.W. Cor. frame house.					
1+52	7.3 Rt. = ℄ 1' wide conc. walk			391.68 5.47 7.3 ℄ walk	391.68 5.47 7.5	
1+49.2	5.6 Rt. = End N. + S. board fence. W. line N + S Alley	391.7 5.5 7.5	391.7 5.5	391.7 5.5 7.5		
	397.15		397.15			

Station	Remarks	Lt.				℄		Rt.		
3+65		392.1 5.1/15	392.1 5.1/10	391.9 5.3/7.5	391.7 5.5/6	391.6 5.6	391.9 5.3/5	392.5 4.7/6.5	392.5 4.7/7.5	392.6 4.6/20
3+50		392.7 4.5/30	392.4 4.8/10	392.2 5.0/7.5		392.1 5.1	392.4 4.8/7.5	392.8 4.4/30		
3+35				392.3 4.9/7.5		392.4 4.8	392.5 4.7/7.5			
3+30	6.9 Rt. = Dead Man									
3+00			392.8 4.4/35	392.3 4.9/7.5		392.3 4.9	392.6 4.6/7.5	392.7 4.5/35		
2+99	9.3 Rt. = End slat fence.									
2+98	8.3 Rt. = Pole # P.A. 3490									
2+50	8.1 Rt. = Start slat fence			392.2 5.0/7.5		392.2 5.0	392.4 4.8/7.5			
2+49	8' Rt. = End post + wire fence									
2+30				392.2 5.0/7.5		392.3 4.9	392.4 4.8/7.5			

397.15

397.15

Lt. = No. ℄ Rt. = So.

T.R.	5.95	397.36	5.74	391.41
3+86 ±	Wl. Curb line 35 ft			
3+84				
3+78	End of broken out pav.			
3+75	= Backedge walk s			
	of 35 ft 5 ft			
3+74	= Edge paving taken along line			
3+73	= W. Line 35 ft			
		397.15		

391.38 — 5.77 pvc pav

391.05 — 6.10 top gut

391.53 — 5.62 top ob 8.03 pav

391.07 — 6.08 8.03 pav

391.09 — 6.06

390.89 — 6.28 8.03 pav

391.17 — 5.98 top cl.

390.87 — 6.28 low gutt

391.09 — 6.06 top curb

391.53 — 5.62 8.03 pav

391.29 — 5.86 8.03 pav

391.27 — 5.93

390.94 — 6.21 8.03 pav

391.27 — 5.98 8.03 curb

391.44 — 5.71 8 walk

391.37 — 5.78 8 pav

391.26 — 5.89 pav

391.10 — 6.05 9.5 Δ in pav

391.16 — 6.00 8 pav

391.34 — 5.81 8 walk

391.37 — 5.79 8.03 walk walk sunken

391.41 — 5.74 8.07 pav

391.30 — 5.85 pav.

391.09 — 6.06 4 edge pav

391.16 — 6.0 8 Grd

391.35 — 5.90 8.03 walk

391.53 — 5.62 8.03 pav + Grd

391.37 — 5.78 pav + dirt

391.25 — 5.90 2.2 Edge pav

391.15 — 6.0 8.1 Grd

397.15

North & South Alley
Blk. 55 Normal Hgts

0+89 7.7 Lt. = Ctr. Conc. for post

also 8⁵ Lt. = start conc. yard slab

0+79 7² Lt = Conc for post 1' Diam

0+69 7² Lt. = Conc. for post 2' Diam

0

0+60 { 7² Lt. = Ctr. Conc. support for posts 18" Diam
6⁵ Lt. = pole # P.M 4529 set in conc.

0+51 7² Lt. = Start. picket fence. posts

0+50

0+39 6² Lt = Dead man

0+00 = N. Line of E. & W. Alley
397.36

397.00
5.36
7.7
Conc

397.47 391.80 397.1 397.1 397.1
4.89 5.56 5.2 5.3 5.3
8.5 7.7 7.5 7.5
Slab Conc

391.6 V
5.74
7.7

391.8 V
5.54
7.7

391.86
5.50
7.7
Ctr. Conc.
~~Post~~ Support
for post

391.9 391.9 391.8
5.5 5.5 5.6
7.5 7.5

391.8 391.6 391.7
5.6 5.8 5.7
7.5 7.5

397.36

1+15 12½ Rt. = start Car. doors

397.67
4.74
7.8
Apron

397.95
4.41
12.1
Car Floor

1+13 7½ Lt. = Ctr. Conc. for post. 18" Diam

397.11
5.125
7.7

for. 3 Car. Gar.

1+11 7½ Rt. = start Conc. walk + Apron

392.5
4.7
7.7
Grd

397.56
4.80
7.8

1+03 7½ Lt. = Conc for post 18" Diam

397.04
5.32
7.7

1+00

397.7
5.2
7.5

397.7
5.2

397.7
5.2
7.5

0+99 7½ Lt. = Ctr. Conc. for post 1' Diam.

397.15
5.21
7.7

397.36

		Lt.	℄	Rt.
1+50		392.5 4.9 7.5	392.6 4.8	392.7 4.7 7.5
1+49	11.9 Rt. = ℄ 2' wide Conc. walk.			392.63 4.73 11.9 walk
1+45	7.9 Rt. = End Conc. Apron 11.9 Rt. = end Gar.	392.36 5.0 7.5	392.5 4.9	392.46 4.8 7.5
	this is last post set in Conc.			
1+43.2	7.7 Lt. = ctr. 18" Diam Conc. for post	392.05 5.31 7.7		
1+33.5	7.7 Lt. = ctr. 18" Diam Conc. for posts	391.99 5.37 7.7		
1+23.7	8.5 Lt. = End Conc. yard slab 7.8 Lt. ctr. Conc. for post.	392.46 4.90 8.5 End slab	392.23 5.13 7.8	

397.36

15^{4} Rt. 4 Car. Gar

1+87 8 Rt. = End Conc. Apron &

1+85 6^{8} Lt = pole #P.T. 4551
board fence
also end picket fence start

1+83^{5} 7^{2} Lt. = End. 4" thick conc. slab

4" thick

1+74^{5} Lt. = start Conc. yard slab

under picket fence.

1+74 Lt. = End 4" top conc. wall

1+54 7^{9} Rt. start apron for 4 Car. Gar

picket fence

1+51 7^{1} Lt. = Start Conc. wall 4" wide under

397.36

393.19
4.17
7^{2}
slab

392.8
4.6
7.2
Ord

393.04
1 4.32
7.2
top step

392.7
4.7
7.2
Ord

392.8
4.6
7.5
Ord

392.82
4.54
7.1
top wall

392.1
5.3
6.8
Bottom of wall Footing

397.41
4.95
7.7
top wall

391.9
5.5
7.1
Bottom of wall Footing

392.90
4.46
8
Apron

393.23
4.13
15.6
Car. floor

392.77
4.59
7.9
Apron

393.77
4.09
15.8
Car. floor

3+50

3+48 7½ Rt. = start board fence

3+25

5.70 398.30 4.76 392.60

3+00 7½ Lt. = Pole # R.R. 4567

2+65

2+30

2+10 8' Lt. = End board fence

2+00

397.36

393.3 / 5.0 / 7.5 — 392.9 / 5.4 — 393.0 / 5.3 / 7.5

393.3 / 5.0 / 7.5 — 392.7 / 5.6 — 392.8 / 5.5 / 7.5

398.30

393.0 / 4.9 / 7.5 — 392.8 / 4.6 — 392.8 / 4.6 / 7.5

397.8 / 4.6 / 7.5 — 392.7 / 4.7 — 393.0 / 4.9 / 7.5 — 392.6 / 4.8 / 30

397.7 / 4.7 / 30 — 392.5 / 4.9 / 7.5 — 392.4 / 5.0 — 392.6 / 4.8 / 7.5 — 392.7 / 4.7 / 30

392.9 / 4.5 / 7.5 — 392.9 / 4.7 — 392.9 / 4.5 / 7.5

Lt. = West ℄ Rt. = East

End fence
under chicken wire fence.

4+38 7' Rt. = End rough grout wall

393.4 / 5.1 / 7.5
393.4 / 5.1
393.3 / 5.0 / 4
393.7 / 4.6 / 7 / Grd
394.4 / 3.9 / 7 / top grout
394.4 / 3.9 / 7.5 / Grd

Start fence
chicken wire fence.

4+25 7' Rt. = Start Rough grout under

393.3 / 5.0 / 7.5
393.4 / 4.9
393.5 / 4.8 / 4
394.00 / 4.3 / 7 / Grd.
394.4 / 3.9 / 7 / top of grout
394.4 / 3.9 / 7.5 / Grd

4+01
- 7½ Lt. = Start board fence
- 6.8 Lt. to pole # P.P. 4585
- 7' Rt. = End board fence

4+00

393.30 / 5.0
393.3 / 5.0 / 7.5

garage - Conc. floor

3+97 = 18² Lt. = End apron for 5 car.

393.87 / 4.43 / Gar. Floor.
393.84 / 4.48 / 18.9 Apron

3+80

393.4 / 4.9 / 2.5
393.4 / 5.1
393.4 / 5.1 / 7.5

5 car Gar. Conc. floor

3+53 18⁵ Lt. = Start cone apron for

393.84 / 4.46 / 2.1 / Gar Floor
393.67 / 4.63 / 18.5 / Apron

398.30

			Lt.	℄	Rt.
4+95			392.7 4.4 / 7.5	392.3 4.3 / 6	392.0 4.6 / 4
4+92.5	7.8 Lt. = End Frame house			391.9 4.7	392.0 4.6 / 4
4+83.5	= 7.4 Rt. = End Frame house				392.8 3.8 / 7.5
	also start Frame house on piers				
4+72.5	7.2 Rt. = End lath + board Fence				
4+66.5	7.7 Lt. = start Frame house				
4+52	7.1 Rt. = start lath + board Fence				
4+50	7.8 Lt. = End board Fence				
T.P. on curb end.	4.78	396.57	6.51	391.79	
		Gar. Conc. floor			
4+44	17.2 Rt. = ℄ 8' wide Apron to Sing.				
		398.30			

Lt.	℄	Rt.
392.8 3.8 / 7.5	393.0 3.6 / 6	392.5 4.1 / 4
392.4 4.1	393.6 4.0 / 5	392.9 3.7 / 7.4 at house
393.0 3.6 / 7.5	393.9 3.7	393.0 3.6 / 4
393.3 3.3 / 7	394.0 2.6 / 7.5	394.0 2.6 / 10
393.7 3.4 / 7.5	393.1 3.5	393.7 3.4 / 4
394.1 2.5 / 7.5	396.57	
394.51 3.79 / 17.4 Apron	394.87 3.48 / 21.0 Gar. floor	

orig O.M. P. 37	392.22		3.44	0.01 392.23
T.P.	4.84	397.67	5.35	392.83
T.P.	4.93	398.18	5.30	393.25
T.P.	5.54	398.55	3.56	393.01
5+12.75	S. Ct. Madison			
5+06.5				
5+00.75	S.L. Madison			
		396.57		

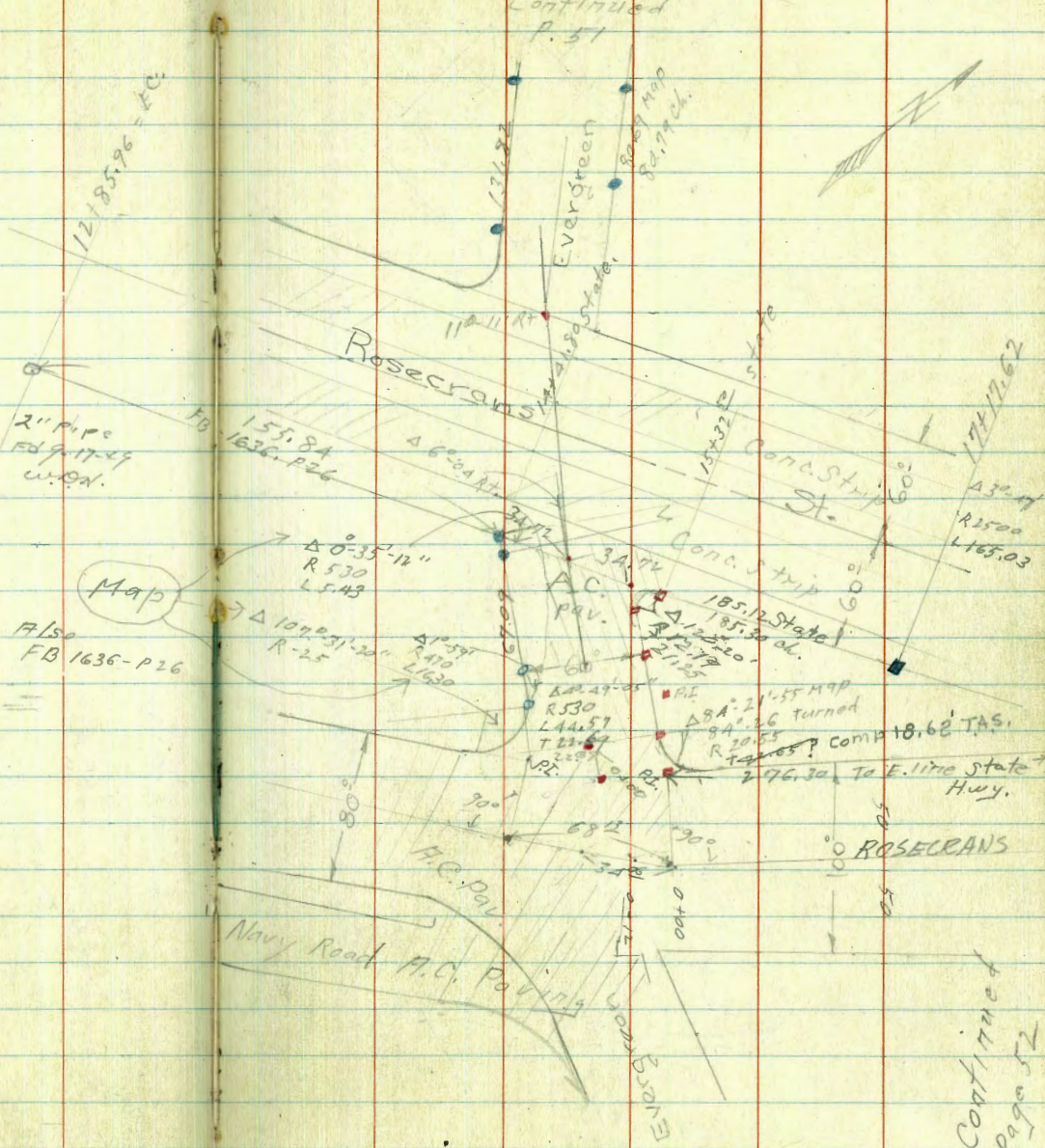
℄ Rh

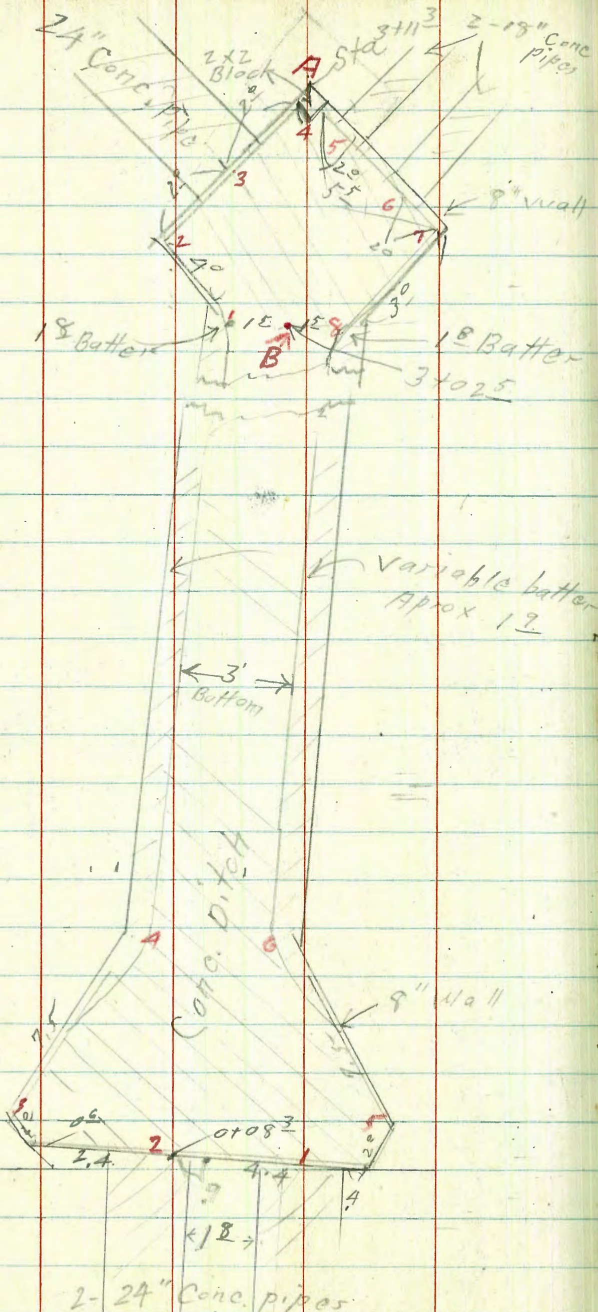
390.68 5.89 100 top Ct.
390.54 6.05 100 pav
391.03 5.54 Top Ct. Rot.
390.94 5.63 7.5 pav
392.93 5.64
391.07 5.50 7.5 pav
391.50 5.07 top Ct. Rot
391.77 4.80 100 pav
392.21 4.36 100 curb

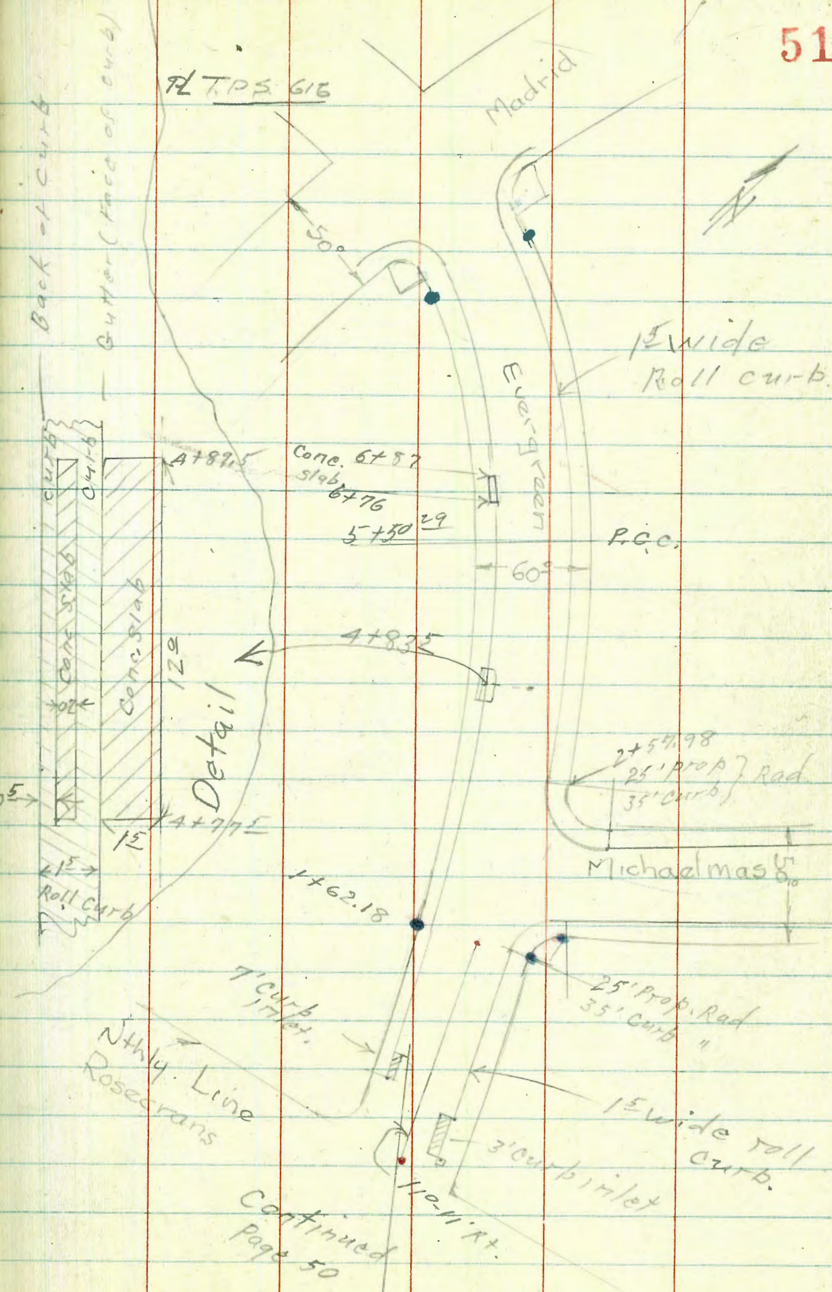
391.48 5.09 7.3 top Ct.
391.35 5.22 7.3 pav
391.17 5.40 pav
391.48 5.09 7.5 pav
391.73 4.84 7.5 curb

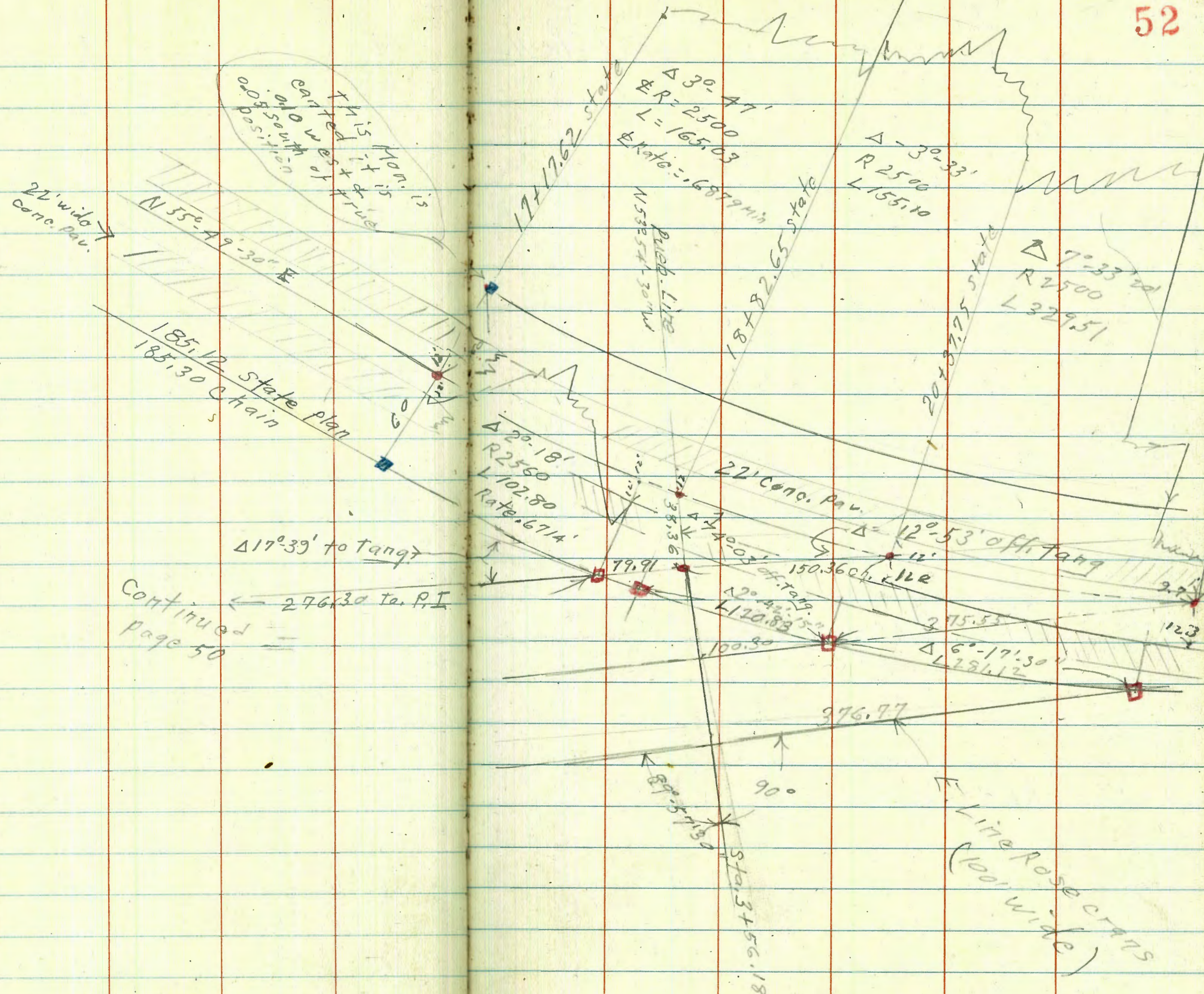
391.38 5.19 7.6 pav
391.47 5.10 7.6 top Ct.
391.8 4.8 7.5 Grd
391.39 5.18 pav + Grd
391.6 5.10 4 Grd
392.3 4.3 7.5 Grd
391.53 5.04 7.6 top Ct.
391.53 5.04 7.6 pav.

Plotted TRS-611, MCQ
Continued
P. 51




24" Conc. Pipe
2x2 Block
A
Sta 3+11 3
2-18" Conc Pipes
8" wall
1 8 Batter
1 8 Batter
B
3+02 5
Variable batter Aprox 1 9
3' Bottom
Conc. Ditch
8" Wall
0+08 3
1 8
2-24" Conc. pipes


TPS 616
Madrid
50
1 5 wide Roll curb
Back of Curb
Gutter (Face of curb)
Cone. Slab
A+89 5
Conc. Slab 6+87
6+76
5+50 29
P.C.C.
60
4+83 5
Detail
12
2+54.98
25' prop } Rad
35' Curb
Michaelmas
4+77 5
1 5 Roll Curb
1+62.18
7' Curb inlet
25' Prop. Rad
35' Curb "
Nthly Line Rosecrans
1 5 wide roll curb.
3' Curb inlet
Continued Page 50


This Mon. is carried it is 0.10 west & 0.05 south of true position
22' wide conc. pav.
N 55°-49'-30" E
185.12 State plan
185.30 Chain
60
17+17.62 state
Δ 3°-47'
℄ R = 2500
L = 165.03
℄ Rate = .6879 min
N 53°-54'-30" W
Rieb. Line
18+82.65 state
Δ -3°-33'
R 2500
L 155.10
20+37.75 state
Δ 7°-33'-20"
R 2500
L 329.51
Δ 2°-18'
R 2500
L 102.80
Rate .6714'
22' Conc. Pav.
Δ 17°-39' to Tang
276.30 to P.I.
Continued page 50
79.91
138.36
Δ 4°-03' off Tang
2°-42'-15"
L 120.83
150.36 ch.
Δ = 12°-53' off Tang
12'
275.53
Δ 6°-17'-30"
L 281.12
9.7
12.3
100.30
376.77
89°-57'-30"
90°
Sta. 3+56.18
℄ Line Rosecrans (100' wide)

Cross Section Rosecrans
Evergreen North to State Hwy

Lt. B.L. Rt.

0+08 Sont.

shots by number

Sketch page 51- left.

0+08 = Start conc. side ditch
49' Lt. = ℄ Head Wall

0+00 = 90° to P.I. see page 50

0-12 Aprox. L in paving

0-34.05 = See page 50

Chisel □ in head wall page 31 — 4.21 — 6.91 — 2.70

#1: −1.64 / 8.55 Invert; +1.04 / 5.87 Headwall

#2: −1.69 / 8.60 Invert; +1.04 / 5.87 Headwall

#3: +0.96 / 3.95 Top; −1.61 / 8.52 Bottom

#4: +0.31 / 6.60 Top; −1.63 / 8.54 bottom

#5: +1.06 / 5.85 Top; −1.60 / 8.51 bottom

#6: +0.29 / 6.62 Top; −1.64 / 8.55 bottom

#7: Top / Bottom

1.0 / 5.7 / 54 P.I. Hub
0.85 / 6.06 / 30 E.P.
0.98 / 5.96 / 22
1.82 / 5.09
1.73 / 3.18 / 5 Edge pav.
2.3 / 4.6 / 25
2.7 / 4.2 / 50

0.76 / 6.15 / 40
0.77 / 6.14 / 27
0.92 / 5.99 / 11
1.82 / 5.09
2.17 / 4.74 / 20
2.91 / 4.00 / 40

0.78 / 6.13 / 40
0.85 / 6.06 / 22
1.64 / 5.27
2.09 / 4.82 / 20
2.79 / 4.12 / 40
3.42 / 3.49 / 53?

6.91

Station	Remarks			Lt.		℄		Rt.	
1+50	Cont.		0.4 6.5 / 50	0.54 6.37 / 47.5 top	-1.55 8.46 / 45.7 Bottom				
1+50		-1.57 8.48 / Bottom 42.7	+0.45 6.46 / 40.8 Top ditch	+1.0 5.9 / 27	1.85 5.06 / 16.3 E.P.	2.12 4.79	1.95 4.96 / 13.4 E.P.	2.3 4.6 / 25	2.9 4.0 / 50
1+00	Cont.	0.4 6.5 / 60	0.4 6.5 / 50	0.44 6.47 / 49.3 top	-1.56 8.47 / 47.5 Bottom				
1+00		-1.57 8.48 / Bottom 44.5	+0.40 6.51 / 42.7 Top ditch	0.7 6.2 / 28	1.56 5.35 / 16.5 E.P.	2.07 4.84	1.99 4.92 / 11.5 E.P.	2.3 4.6 / 25	2.7 4.2 / 50
0+50	Cont.	0.3 6.6 / 60	0.36 6.55 / 51.3 top	-1.62 8.53 / 49.4 Bottom	-1.62 8.53 / 46.4 Bottom				
0+50	E.P. = Edge pav		0.28 6.63 / 44.8 top ditch	0.6 6.3 / 30	1.36 5.55 / 19.5 E.P.	2.02 4.89	2.01 4.90 / 10.5 E.P.	2.4 4.5 / 25	2.8 4.1 / 50
	6.91					6.91			

	† W. Line Rosecrans Intersect			
2+76.30 Cont.	50' Lt. = E. Line State Hwy			
2+76.30	90° to Let. Cor. on west			
T.P. ½ 50' Lt. 2+76.30	6.92	7.38	6.25	0.66
2+50	Cont.			
2+50				
2+00	Cont.			
2+00				
		6.91		

Lt.			Rt.				
0.7	0.51	-1.52					
6.7	6.87	8.90					
50	43.0	41.1					
	top	Bottom					
-1.55	0.46	1.4	2.08	2.40	2.10	2.3	2.8
8.97	6.92	6.0	5.30	4.98	5.28	5.1	4.6
38.1	36.3	25	17		13	25	50
Bottom	Edge ditch top		EP		EP		
				-7.38			
0.1	0.56	-1.49					
6.8	6.35	8.40					
50	43.7	41.8					
	top	Bottom					
-1.50	+0.50	1.3	2.17	2.35	2.11	2.4	2.8
8.41	6.41	5.6	4.74	4.56	4.80	4.5	4.1
38.8	37.0	25	16		13.0	25	50
Bottom	Top ditch		EP		EP		
0.2	0.49	-1.44					
6.7	6.42	8.35					
50	45.8	43.9					
	top	Bottom					
-1.49	+0.50	1.2	1.86	2.24	2.01	2.4	3.1
8.40	6.41	5.7	5.05	4.67	4.92	4.5	3.8
Bottom	39.0	26	16.5		13	25	50
40.9	Top ditch		EP		EP		
			6.91				

3+33 Cont.

59° Lt. = Edge Conc. Pav.

Paving from here on is N.G.

18" culvert outlet shown P. 51 Left.

3+33 Aprox. Intersection twin barrel

44 Lt. = E. Edge black stuff walk

3+02.5 to 3+11.2 Cont.

37.2 Lt. = Point "A"

39.6 Lt. = Point "B"

Shots by number

open box. See Page 54 left.

3+02.5 = End regular Flume start

7.38

Lt.	℄	Rt.
3.87 / 3.51 / 59	4.2 / 3.2 / 47 cold lay	5.2 / 2.2 / 40.2
5.2 / 2.2 / 34? E. Edge Stone walk	2.1 / 5.3 / 37	2.4 / 5.0 / 15
2.4 / 5.0	3.5 / 4.9 / 12	2.8 / 4.6 / 27
3.0 / 4.5 / 50		
-1.48 / 8.86 / Bottom #7	+1.47 / 5.91 / Top	
-1.51 / 8.89 / Bottom #8	+0.43 / 6.95 / Top	
-1.50 / 8.88 / Bottom #4	+1.47 / 5.91 / Top	
-1.50 / 8.88 / Invert #5	+1.44 / 5.94 / Hd wall	
-1.48 / 8.86 / Invert #6	+1.44 / 5.94 / Top Hd wall	
-1.51 / 8.89 / Bottom #1	+0.58 / 6.80 / Top	
-1.44 / 8.82 / Bottom #2	+1.47 / 5.91 / Top	
-1.52 / 8.90 / Bottom #3 Invert	+1.48 / 5.90 / Top Hd wall	

7.38

5+09 = Intersect ~~it~~ cold lay walk

4+75

4+00 Cont

4+00 on back Tang produced.

Also see Page 68

3+56.21 Cont

3+56.21 = 90° to Pueblo Corner

3.70 / 3.68 / 19.5 Edge conc.

4.0 / 3.4 / 4 — Cold lay

4.8 / 2.5 / 5

5.0 / 2.1

2.8 / 4.6 / 8

2.6 / 4.3 / 25

2.8 / 4.6 / 50

3.68 / 3.70 / 22 Edge conc. pav

3.4 / 3.5 / 140

4.4 / 2.5 / 81.3 Cold lay

5.0 / 2.9 / 7.3

2.9 / 4.5

2.3 / 5.1 / 25

1.8 / 5.6 / 50

3.81 / 3.57 / 40 Edge Conc pav.

4.0 / 3.4 / 37

5.0 / 2.4 / 31.3 — cold lay

5.1 / 2.3 / 26

2.1 / 4.7 / 16

2.4 / 5.0

2.2 / 5.2 / 25

2.1 / 5.3 / 50

3.88 / 3.50 / 53 Edge Conc pav

4.2 / 3.2 / 45 Cold lay

5.0 / 4.4 / 4.7 Cold lay

5.1 / 2.3 / 38 Cold lay

2.4 / 5.0

2.5 / 4.9

2.6 / 4.8 / 25

2.6 / 4.8 / 50

7.38

2x2 Hub set at 2+76.30
T.P. 6.72 0.66

7+00 taken on edge paving

5+79.3 Cont.

5+79.3 Intersect Edge Conc. Pav.

3.20 2.8
4.18 4.6
Edge Conc. 50

2.6
4.8
50

3.60 3.8 5.0 4.8 2.8
3.88 3.6 2.4 4.6 4.6
7 9 14 22

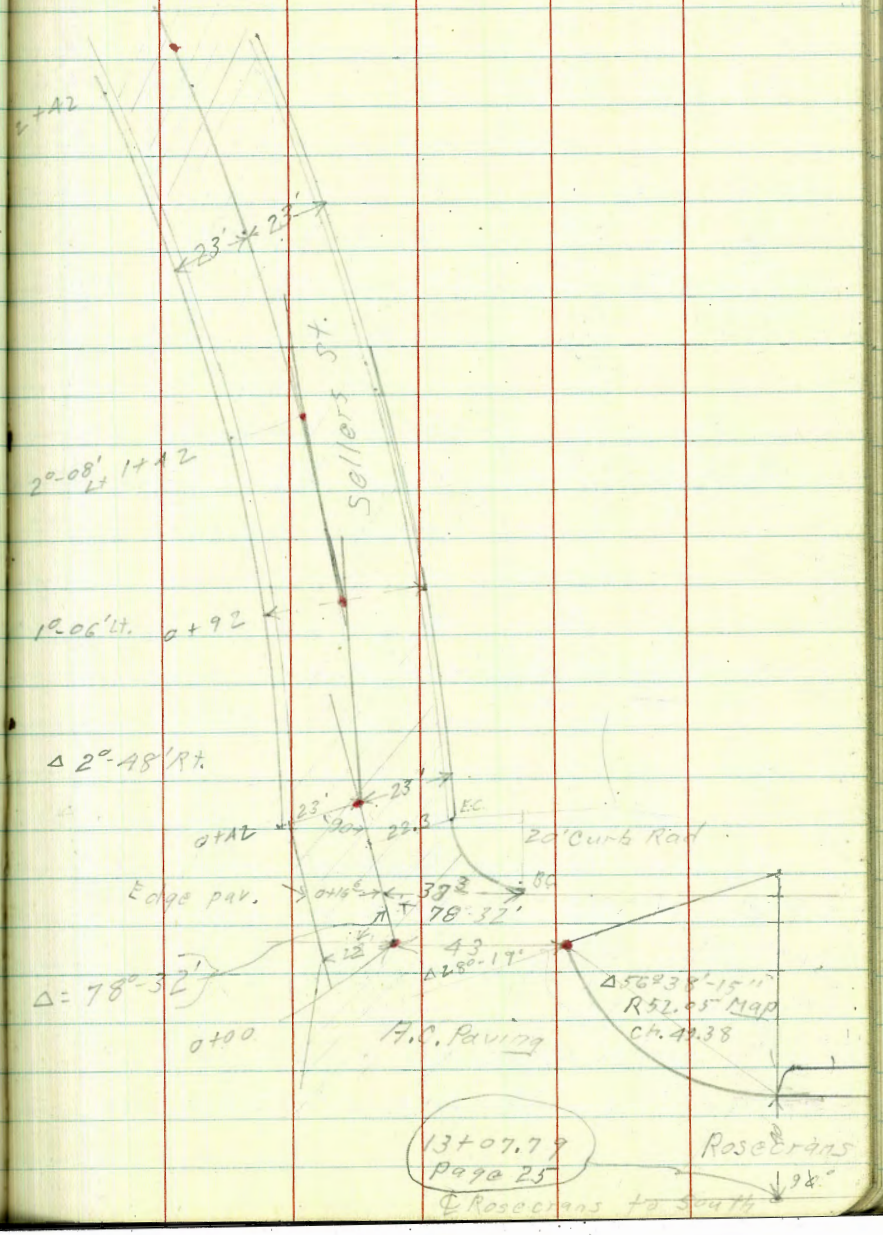
Cold lay

7.38

Cross Section 8-4-47

Sellers St. - 200' East of Rosecrans

Sommermeyer
W Moore
Sherman



Chisel Δ Headwall	5.19	7.89	—	2.70

Page 31

Sellers.

Rose crans - East.

B.L.

L+42	Δ 2°-09' Lt.	3.01 4.88 23 curb	2.57 5.32 23 gutt	2.92 4.97 11.5	3.05 4.84	2.95 4.94 11.5	2.55 5.34 23 gutt	2.91 4.98 23 curb
0+92	Δ 1°-06' Lt.	Driveway 23 Curb	2.67 5.22 23 gutt	3.10 4.79 11.5	3.15 4.74	3.05 4.84 11.5	2.63 5.26 23 gutt	3.08 4.81 23 top dc.
0+42	23 Lt. = Start curb Δ 2°-48' Rt.	3.26 4.63 23 Curb	2.81 5.08 23 gutt	3.25 4.64 11.5	3.31 4.58	3.25 4.64 11.5	2.91 4.98 23 gutt	3.54 4.35 23 curb.
0+30±	-22³ Rt. Curb Ref. E.C.				3.96 4.53	2.89 5.00 22.3 par	3.32 4.57 22.3 top dc.	
	38³ Rt. = Curb E.C. on Gov. project road.							
0+16⁶	Δ 101°-28' Rt. to curb line				3.39 4.50	3.17 4.72 38.3 par.	3.53 4.36 38.3 top dc	
	(going East)							
0+00 =	opposite E.C. (Page 59)	3.8 5.1 46	3.27 4.62 12 edge par	3.41 4.48	3.34 4.55 23		3.41 4.48 50	

7.89

7.89

Evergreen. Rosecrans - West

1+49.6 = West edge East Paving strip

1+25.6 = E. Edge East paving strip

T. P. 6.17 8.90 5.16 2.73

Taken along Hwy line.

97+04 = Ely line State Hwy.

0+58.29 B.C. on North

0+42.05 E.C. on North

"E.P." = Edge paving (Oil Pav.)

Page 50 (Going West)

0+00 = 90° to E.C. Nly side Evergreen

7.89

B.L.

4.16 3.91 3.77 3.64 3.54

4.74 4.99 5.18 5.36 5.36

100 50 50 100

3.77 3.64 3.52 3.44 3.33

5.13 5.26 5.38 5.46 5.57

100 50 8.90 50 100

1.2 2.1 3.3 2.8 2.7 2.8 2.5 3.1 2.6 2.4

6.7 5.8 4.6 5.1 5.2 5.1 5.4 7.8 5.3 5.5

35 20 10 8 15 39 41 44 70

Burm EP EP Burm

0.5 0.6 2.7 2.3 2.2 2.2 2.9 2.1 0.9

7.4 7.3 5.2 5.6 5.7 5.7 5.0 5.8 7.0

~~7.8~~ ~~8.0~~ ~~5.7~~ ~~5.9~~ ~~5.7~~ 6.0

30 16 8 7 25 29 30 10

Burm EP EP Burm

5.1 0.1 2.6 2.0 1.0 1.9 2.6 0.9

7.8 8.0 5.2 5.9 5.9 6.0 5.3 7.5

30 20 10 8 23 35 30

Burm EP EP Burm

0.2 0.0 2.0 1.3 1.20 1.2 1.7 0.8 0.8

7.7 7.9 5.9 6.6 6.59 6.7 6.2 7.1 7.1

30 25 13 11 2.1 2.15 26 30

Burm EP EP Burm Ord

7.89

Evergreen

B.L.

0+21'	21° Rt. = End Reg. Curb start curb roll 21° Lt = start curb	4.26 / 4.64 / 21.2 top cl.	3.63 / 5.27 / 21.2 gutt	3.88 / 5.02 / 17.2 Edge Apron				
0+19	17° Rt. = End conc. Apron.				3.51 / 5.39 / 17.2 Apron		3.22 / 5.68 / 21.2 Gutt	3.90 / 5.00 / 21.2 cl.
0+10°	21° Rt = Ctr. Curb inlet 3' opening					2.83 / 6.07 / 21.2 gutt	3.81 / 5.09 / 21.2 cl.	
0+07	21° Rt. = start curb					3.31 / 5.59 / 17.2 Conc. Apron	3.12 / 5.78 / 21.2 Gutt	3.82 / 5.08 / 21.2 top cl.
0+00	Along Hwy line = West line State Hwy	4.0 / 4.9 / 30	4.3 / 4.6 / 24 Burm	3.5 / 5.4 / E. oil 22	3.5 / 5.4 / oil	3.3 / 5.6 / 21	3.9 / 5.0 / 22 Burm	3.6 / 5.3 / 30
2+00	= West edge West paving strip	4.70 / 4.20 / 100	3.91 / 4.99 / 50	3.66 / 5.24	3.43 / 5.47 / 50	3.36 / 5.54 / 100		
1+76°	= East edge West paving strip	4.36 / 4.54 / 100	3.89 / 5.01 / 50	3.80 / 5.10	3.61 / 5.29 / 50	3.55 / 5.35 / 100		

8.90

8.90

~~30' Rt. 1+62 18~~											
T.P. on pipe	12.74	19.66	5.30	6.92							
	B.C. Left.										
1+62 18	20' Rt. = Start Curb Ret. also				7.37 / 4.85 / 21 / top Cl.	7.07 / 5.15 / 20 / gutt	8.4 / 4.8 / 10	7.6 / 4.6	7.5 / 4.7 / 10	7.79 / ~~7.62~~ / 4.60 / 20 / gutt	8.14 / ~~7.97~~ / 4.25 / 21 / top Cl.
1+00					5.46 / 6.76 / 21 / top Cl.	5.18 / 7.04 / 20 / gutt	5.3 / 6.9 / 10	5.3 / 6.9	5.3 / 6.9 / 10	5.10 / 7.12 / 20 / Gutt	5.43 / 6.79 / 21 / Top Cl.
0+55.92					4.60 / 7.62 / 21 / Top Cl.	4.29 / 7.93 / 20 / Gutt		4.3 / 7.9 / 12.22		4.05 / 8.17 / 20 / Gutt	4.35 / 7.87 / 21 / Top Cl.
T.P	8.09	12.22	4.77	4.13							
0+39	21 Lt. = End Reg. Start roll curb										
0+37 6	17 Lt. = End Apron. & End. oil Paving				4.37 / 4.53 / 21 / Cl.	3.73 / 5.17 / 21 / gutt	3.91 / 4.99 / Apron 17'	4.3 / 4.6	3.84 / 5.06 / 20 / gutt	4.15 / 4.15 / 21 / Cl.	
0+28 5	21' Lt = Ctr. 7' opening Inlet. Curb				4.29 / 4.61 / Cl.	3.31 / 5.59 / Gutt					
		8.90									

Evergreen.

4+50				
4+00	10.93	30.45	0.14	19.52

20 Lt + 20 Rt = Gutter

21.5 Lt. + 21.5 Rt. = Top Roll Curb

3+50				
3+00				
2+57.98	= Wly. line Michaelmas			
2+10.08	= ℄ Michaelmas to North.			

19.66

	Lt.	℄	Rt.
4+50	22.67 / 1.78 / 21.5	22.32 / 8.13 / 20	22.4 / 8.0 / 10	22.6 / 7.8	22.6 / 7.8 / 10	22.77 / 7.68 / 20	23.07 / 7.38 / 21.5
4+00	19.86 / 10.59 / 21.5	19.54 / 10.91 / 20	19.7 / 10.7 / 10	19.9 / 10.5 / 30.45	19.9 / 10.5 / 10	19.93 / 10.52 / 20	20.27 / 10.18 / 21.5
3+50	17.06 / 2.60 / 21.5	16.77 / 2.89 / 20	16.9 / 2.8 / 10	17.2 / 2.5	17.2 / 2.5 / 10	17.15 / 2.51 / 20	17.47 / 2.19 / 21.5
3+00	14.23 / 5.43 / 21.5	13.94 / 5.72 / 20	14.1 / 5.6 / 10	14.4 / 5.3	14.5 / 5.2 / 10	14.38 / 5.28 / 20	14.66 / 5.00 / 21.5
2+57.98	11.91 / 9.75 / 21.5	11.62 / 8.04 / 20	12.0 / 7.7 / 10	12.1 / 7.6	12.2 / 7.5 / 10	12.14 / 7.52 / 20	12.43 / 7.23 / 21.5
2+10.08	9.65 / 10.01 / 21.5 top Bk.	9.36 / 10.30 / 20 Gutter	9.5 / 10.2 / 10	9.8 / 9.9	9.9 / 9.8 / 10	9.8 / 9.9 / 20	9.7 / 10.0 / 30

19.66

Evergreen

T.R.	11.25	41.60	0.10	30.35
5+50.22	P.C.C.			
5+00				
4+89.5	Cont.			
4+89.5	End slabs.			
4+77.5	Cont.			
4+77.5	Start Conc. slab Ramps see P. 51A.			

(21.5 Lt + Rt. = top roll curb
20 Lt + Rt. = Gutter)

30.45

28.19 | 27.88 | 27.7 | 27.9 | 28.1 | 28.3 | 28.2 | 28.35 | 28.66
2.26 | 2.57 | 2.7 | 2.5 | 2.3 | 2.1 | 2.2 | 2.10 | 1.79
21.5 | 20 | 19.9 | 10 | | 10 | 19.9 | 20 | 21.5

25.39 | 25.49 | 24.9 | 25.1 | 25.3 | 25.5 | 25.58 | 25.88
5.06 | 5.36 | 5.5 | 5.3 | 5.1 | 4.9 | 4.87 | 4.57
21.5 | 20 | 19.9 | 10 | | 10 | 20 | 21.5

24.86 | 24.75 | 24.71
5.59 | 5.70 | 5.74
21.5 | 21 | 20.3
curb | Cor. slab | Cor. slab

24.55 | 24.69 | 24.49
5.90 | 5.76 | 5.96
20 | 20 | 18.5
gutter | cor. slab | Cor. slab

24.20 | 24.11 | 24.03
6.25 | 6.34 | 6.42
21.5 | 21. | 20.3
curb | cor. slab | Cor. slab

23.88 | 24.03 | 23.90
6.57 | 6.42 | 6.55
20 | 20 | 18.5
~~curb~~ gutter | cor slab. | Cor. slab

30.45

Evergreen

9.15 50.39 0.36 41.24

7+50

39.10 38.83 38.7 38.8 39.1 39.3 39.3 39.40 39.70
2.50 2.77 2.9 2.8 2.5 2.3 2.3 2.20 1.90
21.5 20 19.9 10 10 19.9 20 21.5

7+00

36.47 36.14 36.0 36.2 36.4 36.7 36.6 36.70 36.98
5.13 5.46 5.6 5.4 5.2 4.9 5.0 4.90 4.62
21.5 20 19.9 10 10 19.9 20 21.5

6+87 End Conc. ramp.

35.69 34.49
5.91 6.11
21.5 19
top curb & Ramp

6+76 19' L+= Conc. ramp built on top of curb

35.06 34.78
6.54 6.52
21.5 19
top cb. & Ramp

6+50

33.72 33.44 33.2 33.5 33.8 33.9 33.8 33.89 34.17
7.88 8.16 8.4 8.1 7.8 7.7 7.8 7.71 7.43
21.5 20 19.9 10 10 19.9 20 21.5

6+00.

30.98 30.67 30.6 30.7 31.0 31.0 30.9 31.04 31.34
10.62 10.93 11.0 10.9 10.6 10.6 10.7 10.56 10.26
21.5 20 19.9 10 10 19.9 20 21.5

41.60

41.60

T.P. Top. S.E'ly. Madrid + Evergreen. 2.06 48.33

8+57 93 = E. Line Madrid

44.51	44.21	44.1	44.1	44.2	44.4	44.51	44.80
5.88	6.18	6.3	6.3	6.2	6.0	5.88	5.57
21.5	20	19.9	10		10	20	21.5

8+37 27 E. C.

43.54	43.25	43.1	43.2	43.2	43.4	43.73	44.02
6.85	7.14	7.3	7.2	7.2	7.0	6.66	6.37
21.5	20	19.9	10		10	20	21.5

8+00

41.70	41.40	41.3	41.4	41.6	41.7	41.87	42.17
8.69	8.99	9.1	9.0	8.8	8.7	8.52	8.22
21.5	20	19.9	10		10	20	21.5

50.39

50.39

℄ Rosecrans (produced)

= E. Line State Hy

7+32.95 50' Rt. = Int. E. line Rosecrans & ℄

T.P. Hub 50' Rt. 7+32.95 — 3.94 — 6.33 — 5.27 — 2.39

7+20.8 = W'ly Edge East paving strip

6+45 = ℄ Strip paving (Intersection)

Edge strip paving on State Hy.

5+81.2 = ℄ Rosecrans produced & Ely

4+56.48 = Int. ℄ Rosecrans & Ely line State Hy

2+72 Hub, 50' Rt. 2+76.30 Page 55. — 7.00 — 7.66 — — — 0.66

2.2 — 4.1

2.21 — 4.12 — 7.5 w. Edge strip pav. — 6.33

3.13 — 3.20 — 23.5 E. Edge pav. strip

2.4 — 3.9 — 50 Ely line Hy.

2.21 — 3.45

3.14 — 4.52 — 22.6 E. Edge paving

4.78

3.48 — 4.18

2.17D — 4.96 on Hub

7.66

2x2. Hub. p 68.			7.07	0.65	0.66
T.P.	5.42	7.72	4.03	2.30	

10+46^{1} = State Hy. E.C. = 9.62 Rt of ℄ old Rosecrans

8+32^{03} = Int. ℄ State Hy & ℄ Rosecrans

6.33

℄ old Rosecrans

2.3 — 4.0 / 54.1 oiled gutter; 3.1 — 3.2 / 55.6 Cold lay walk; 3.2 — 3.1 / 60.4 Edge cold lay walk; 3.1 — 3.2 / 69.62 prop.

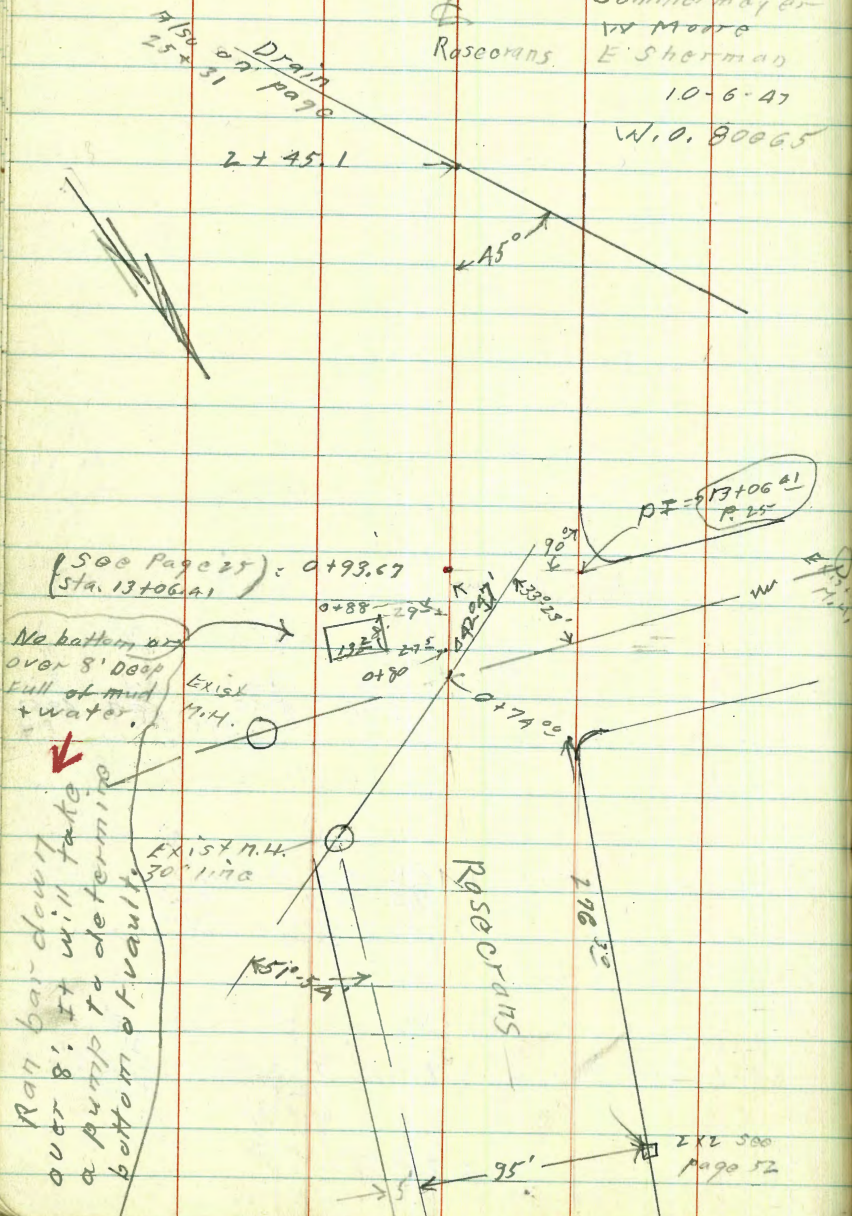
E.C. / 9.62; 1.67 — 4.66 / 24.3 W. Edge pav. strip; 2.21 — 4.12 / 46.3 E. Edge pav. strip

1.6 — 4.7; 2.04 — 4.29 / 12.3 W. Edge paving strip; 3.01 — 3.32 / 34.3 E. Edge paving strip

6.33

Rosecrans (Evergreen South)
Sewer Prelim.

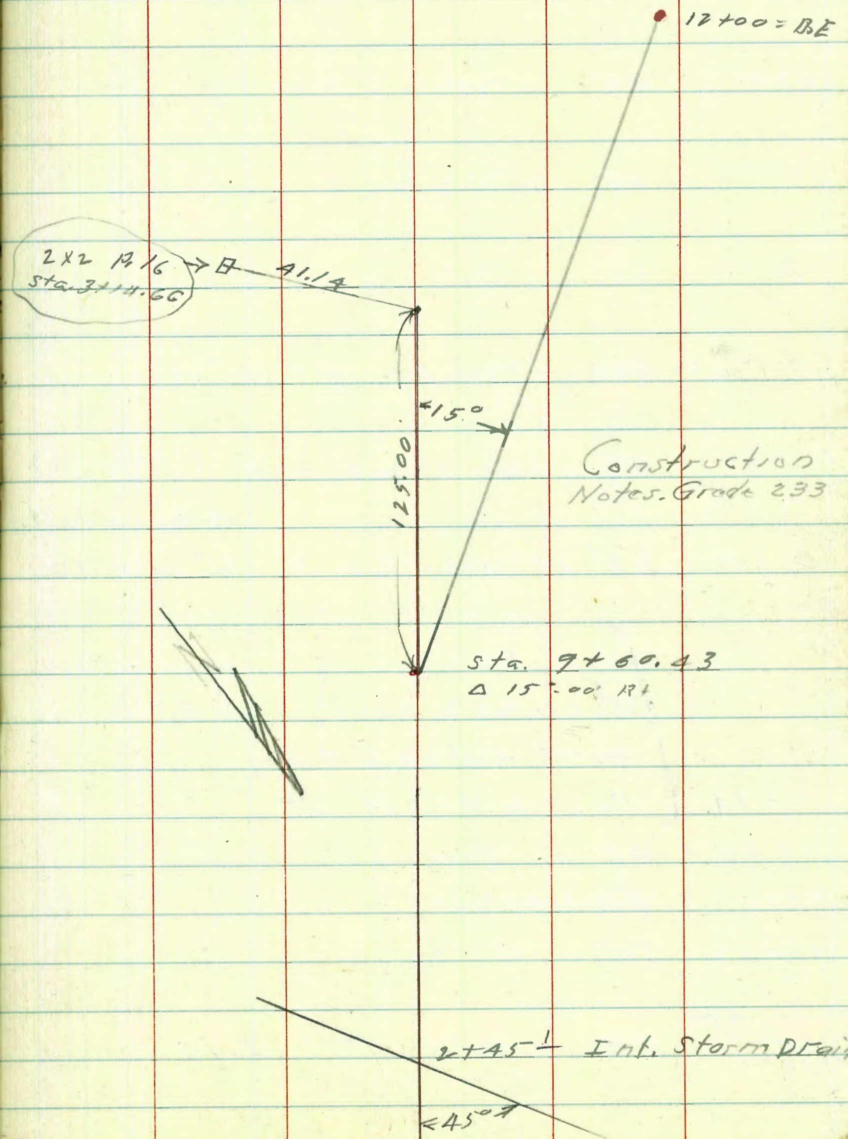
Sommermeyer
W Moore
E Sherman
10-6-47
W.O. 80665



Indexed
C.S.K.

℄ Rosecrans

SEE 7024 L.



Rosecrans Sewer Prelim.

3+00							5.3	3.2
2+45	= Int. Culvert (Page 70)						5.9	2.6
2+00							6.15	2.0
1+00							6.9	1.6
0+93.67	= 40° Rt. = Prop. P.I. (Page 25)						6.9	1.6
+88	= Other cor. same box (Page 70)						6.05	2.4
0+80	27.5 Lt. = Near Cor 8' X 13' water Meter vault						6.05	2.4
	71.1 Lt. on 8" Line = Inv. M.H.						10.18	-1.67
	= M.H. Rim.						5.18	3.33
	~~Invert~~ Top 8" C.I. Pipe						8.92	-.41
0+74	Pav Δ 76°-10' Lt						7.0	1.5
0+25	Start Pav						5.9	2.6
0+00	Invert 30"						22.82	-14.31
0+00	Rim						5.92	2.59
Chisel □ Top Head wall Page 31	5.81	8.51	—	2.70	5.81	8.51	—	2.70

Rosecrans

Sewer Prelim.

11+00							8.0	19.5
10+50							10.0	17.5
10+00							11.0	16.5
T.R.		27.51			11.26	27.51	1.95	16.25
9+60 43	Δ 15°-00' Lt. (Page 70)						1.95	16.25
9+00							3.3	14.9
8+00							5.4	12.8
7+00							7.4	10.8
6+00							9.5	8.7
T.R. 5+00 Nail	11.36	18.20	1.67	6.84	11.36	18.20	1.67	6.84
5+00							1.7	6.8
4+00							3.6	4.9
		8.51				8.51	~~8.51~~	

Rosecrans
Sewer Prelim.

check curb End T.P. Page 22 EL 18.04

			9.49	18.02 (1804)
12+00 = D.E.			1.2	24.3
11+50			5.0	22.5
		27.51		

Morley field refreshment stand sewer profile Sommermeyer 2-2-48

Filed

1+20.5	Edge rock gutter			270.2 7.3
T.P.	7.48	277.54	4.99	270.06 277.54
1+18.62	Δ 68° 42' Rt.			267.8 5.0
1+00				267.8 5.0
0+65				267.4 5.4
0+30	Edge oil			267.0 5.8
0+00	N.W. cor. club house porch Ctr. M.H. 32° 16' Rt. off. See hard copy for sketch.			267.21 5.60
M.E. cor. Tennis court on cone.	2.24	275.05	272.81	

Changed 3/4/48 see page 77 C.H.S.

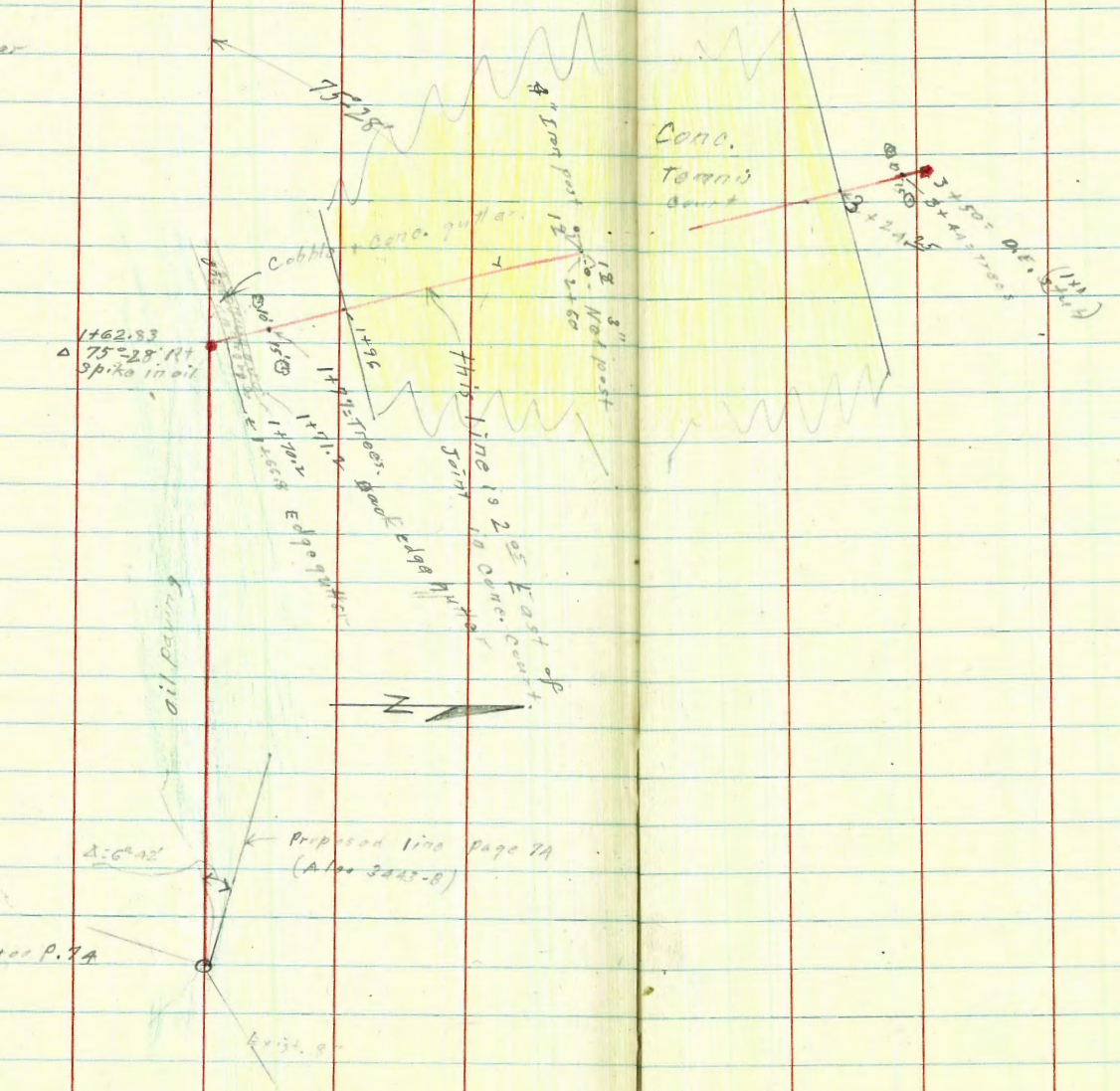
2+78 E			272.7 4.8
2+78	End Conc. tennis court.		272.84 4.70
2+00			272.21 5.33
1+49 6	start Conc. tennis court.		271.76 5.78
1+49 E			271.5 6.0
1+38			271.6 5.9
1+30	7' Lt. = 8" tree		
1+25	Top of gutter		270.9 6.6
1+23 E	In gutter		270.0 7.5
		277.54	

Orig B.M.		4.73	272.81	
	as per hard copy.			
3+32	36[T] Lt. = N.E. Cor. Prop. Bldg			274.6 2.7
3+00				275.9 2.6
2+98	6[E] Lt. = 8" tree			
2+85				275.9 2.6
		277.54		

R. Grun. Morley Field
Refreshment stand. Prop. sewer.
Orig on P. 7A.

W.O. 92064
3-A-48

Semmermeyer
McCoy
W. Moore
E Sherman



℄

1+77	15' Rt. = ctr. 10" diam tree. 10' Lt. = ctr. 1' diam tree				
1+71½	End cobble gutter				270.3 6.8
1+70½	LN gutter				269.5 7.6
1+66.8	Edge cobble gutter				269.7 7.4
1+66	End oil				269.7 7.6
T.P.		7.40	277.30	5.23	269.90	277.30
1+62.83	Δ 75° 28' Rt.				269.7 5.4
1+30					269.7 5.4
1+00					269.6 5.5
0+50	start oil pav.				269.2 5.9
0+25	on dirt				269.5 5.6
0+01	Edge oil pav.				
0+00	ctr. M.H.				269.43 5.70
N.E. Cor Court. (Page 74)		2.32	275.13		272.81	275.13

Check B.M. N.E. Cor. Court.			4+50	272.80 (0.01 ✓)	(272.81)
3+50	on stub				
3+44	15' Rt. = 10" diam. tree 10' Lt. = 10" diam tree				
3+33					
3+28					
3+25					
3+24.25	End conc. court.				
3+00					
2+60	1.8 Lt. = 4" Iron pipe post + 1.8 Rt. = 3" Iron pipe post.				
2+50					
1+96	= start conc. Court.				
1+95.9					
2+80					
		277.30			

℄

274.26
3.04

274.3
3.0

273.1
4.2

272.80
4.5

272.80
4.50

272.63
4.67

272.31
4.99

271.28
5.07

271.6
5.50

271.6
5.5

271.3
6.0

277.30

DIRECTIONS FOR USE OF TABLES

TABLE No. 1.

Distance of slope stake from side or shoulder stake for any width roadway, slope 1½ to 1. If ground is nearly level, the cut or fill at side stake is located by the double entry method in left column and top row. The number in body of table in same row and column gives distance from side stake to slope stake. If ground is not level estimate the difference in elevation between the side stake and slope stake, lower target by this amount if cut, elevate if fill. Add this amount to cut or fill and find distance in table. Set up rod at this point, and line of sight should cut target. If it does not make the slight adjustment necessary.

TABLE No. 9.

To find Tangent and External for curve of any other degree, divide by degree of curve and add correction found in column of corrections.

Degree of curve with a given I may be found by dividing tangent, (or external), opposite I by given tangent, (or external).

The distance from a point on the tangent to the curve is very nearly the square of the tangent lenth divided by twice the radius.

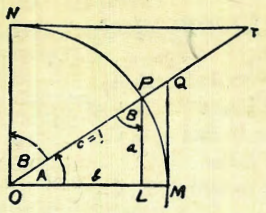


TABLE II

TRIGONOMETRIC FORMULÆ.

$\angle A = \angle MOP \qquad \angle B = \angle PON = \angle OPL$

$R = OB = c = 1$

$$\sin A = \frac{a}{c} = \frac{a}{1} = a = \cos B = LP$$

$$\cos A = \frac{b}{c} = \frac{b}{1} = b = \sin B = OL$$

$$\tan A = \frac{a}{b} = \frac{MQ}{OM} = \frac{MQ}{1} = MQ = \cot B = MQ$$

$$\cot A = \frac{NT}{ON} = \frac{NT}{1} = NT = \tan B = NT$$

$$\sec A = \frac{OQ}{OM} = \frac{OQ}{1} = OQ = \csc B = OQ$$

$$\csc A = \frac{OT}{ON} = \frac{OT}{1} = OT = \sec B = OT$$

$$\text{vers } A = \frac{LM}{OP} = LM = \text{covers } B \#$$

$$\text{covers } A = \frac{OP - LP}{OP} = OP - LP = \text{vers } B$$

$$\text{exsec } A = PQ = \text{coexsec } B$$

$$\text{coexsec } A = PT = \text{exsec } B$$

$$\sin \tfrac{1}{2} A = \sqrt{\frac{1 - \cos A}{2}} \qquad \cos \tfrac{1}{2} A = \sqrt{\frac{1 + \cos A}{2}}$$

$$\sin 2A = 2 \sin A \cos A \qquad \cos 2A = \cos^2 A - \sin^2 A$$

$$\text{Law of Lines} \quad \frac{\sin A}{a} = \frac{\sin B}{B} = \frac{\sin C}{C}$$

$$\text{Law of Cosines} \quad c^2 = a^2 + b^2 - 2ab \cos C$$

$$\text{Law of Tangents} \quad \frac{a+b}{a-b} = \frac{\tan \tfrac{1}{2}(A+B)}{\tan \tfrac{1}{2}(A-B)}$$

Table II—Continued
TRIGONOMETRIC FORMULAE (continued)

In any triangle:

Given a, b, C; to find c, B, A.

Use Law of Lines.

Given A, B, c; to find a, b, C.

Use Law of Lines.

Given a, b, c; to find A, B, C.

$$\text{Let } \frac{a+b+c}{2} = s, \sqrt{\frac{(s-a)\ (s-b)\ (s-c)}{s}} = r$$

$$\cos \tfrac{1}{2} A = \sqrt{\frac{s(s-a)}{bc}}$$

$$\tan \tfrac{1}{2} A = \frac{r}{s-a}$$

$$\tan \tfrac{1}{2} B = \frac{r}{s-b}$$

$$\tan \tfrac{1}{2} C = \frac{r}{s-c}$$

Area of a triangle:

$$\text{Area} = \tfrac{1}{2} ab \sin C$$

$$\text{Area} = \sqrt{s\,(s-a)\,(s-b)\,(s-c)}$$

PRISMOIDAL FORMULA.

$$\text{Vol.} = \frac{h}{6}(B+b+4M)$$

h = altitude; b, B = bases; M = midsection

Table III
INCHES AND FRACTIONS OF AN INCH IN DECIMALS OF A FOOT

	0	1	2	3	4	5	6	7	8	9	10	11	
1/16	.0052	.0885	.1719	.2552	.3385	.4219	.5052	.5885	.6719	.7552	.8385	.9219	1/16
1/8	.0104	.0938	.1771	.2604	.3438	.4271	.5104	.5938	.6771	.7604	.8438	.9271	1/8
3/16	.0156	.0990	.1823	.2656	.3490	.4323	.5156	.5990	.6823	.7656	.8490	.9323	3/16
1/4	.0208	.1042	.1875	.2708	.3542	.4375	.5208	.6042	.6875	.7708	.8542	.9375	1/4
5/16	.0260	.1094	.1927	.2760	.3594	.4427	.5260	.6094	.6927	.7760	.8594	.9427	5/16
3/8	.0313	.1146	.1979	.2813	.3646	.4479	.5313	.6146	.6979	.7813	.8646	.9479	3/8
7/16	.0365	.1198	.2031	.2865	.3698	.4531	.5365	.6198	.7031	.7865	.8698	.9531	7/16
1/2	.0417	.1250	.2083	.2917	.3750	.4583	.5417	.6250	.7083	.7917	.8750	.9583	1/2
9/16	.0469	.1302	.2135	.2969	.3803	.4635	.5469	.6302	.7135	.7969	.8802	.9635	9/16
5/8	.0521	.1354	.2188	.3021	.3854	.4688	.5521	.6354	.7188	.8021	.8854	.9688	5/8
11/16	.0573	.1406	.2240	.3073	.3906	.4740	.5573	.6406	.7240	.8073	.8906	.9740	11/16
3/4	.0625	.1458	.2292	.3125	.3958	.4792	.5625	.6458	.7292	.8125	.8958	.9792	3/4
13/16	.0677	.1510	.2344	.3177	.4010	.4844	.5677	.6510	.7344	.8177	.9010	.9844	13/16
7/8	.0729	.1563	.2396	.3229	.4063	.4896	.5729	.6563	.7396	.8229	.9063	.9896	7/8
15/16	.0781	.1615	.2448	.3281	.4115	.4948	.5781	.6615	.7448	.8281	.9115	.9948	15/16
1	.0833	.1667	.2500	.3333	.4167	.5000	.5833	.6667	.7500	.8333	.9167	1.000	1
	0	1	2	3	4	5	6	7	8	9	10	11	

Table IV
USEFUL RELATIONS.

Lineal feet	×.00019	= miles
Lineal yards	×.0006	= miles
Square inches	×.007	= square feet
Square feet	×.111	= square yards
Square yards	×.0002067	= acres
Acres	×4840	= square yards
Cubic inches	×.00058	= cubic feet
Cubic feet	×.03704	= cubic yards
Links	×.22	= yards
Links	×.66	= feet
Feet	×1.5	= links

360° = 21600′ = 1296000″

Radius = arc of 57.2957790°

Arc of 1° (radius = 1) = .017453292

Arc of 1′ (radius = 1) = .000290888

Arc of 1″ (radius = 1) = .000004848

$\pi = 3.141592654$ $\qquad \sqrt{\frac{1}{\pi}} = 0.564190$

$\frac{\pi}{4} = 0.785398163$ $\qquad \sqrt[3]{\frac{6}{\pi}} = 1.240700982$

$\frac{\pi}{6} = 0.523598776$ $\qquad \pi^2 = 9.869604401$

$\sqrt{\frac{4}{\pi}} = 1.128379167$ $\qquad \frac{1}{\pi^2} = 0.101321184$

$\frac{\pi}{6} = 0.523598776$ $\qquad \sqrt{\pi} = 1.772453851$

$\frac{4.\pi}{3} = 4.188790205$ $\qquad \frac{1}{\pi} = 0.3183099$

Curvature of Earth's surface = about 0.7 feet in 1 mile

Curvature in feet = 0.667 (Dist. in miles)²

Difference between arc and chord length, 0.05 feet in 11½ miles

$$\text{Probable error of a single observation} = 0.6754\sqrt{\frac{M v^2}{n-1}}$$

Error in chaining of 0.01 feet in 100 feet:

Due to—

1. Length of tape error of 0.01 feet
2. Alignment. One end 1.4 feet out of line
3. Sag of tape at centre of 0.61 feet.
4. Temperature difference of 15°
5. Difference of pull of 15 lbs.

STADIA REDUCTION FORMULÆ.

Horizontal Distance = $R - R \sin^2 a + C \cos a$

Vertical Distance = $R \tfrac{1}{2} \sin 2a + C \sin a$

$$R = \text{Reading} \times \frac{\text{distance from Object glass to cross hairs}}{\text{distance between cross hairs}}$$

C = distance from Object glass to cross hairs + distance from Object glass to center of instrument.

a = angle of elevation for mid Reading

Sommermeyer Pd. 3.00

6.87
43

276.30
79.91
356.21

17 07 79
16 90 12 72 30
5 92 35 4 9
22 8 2

960 43
93 67
866 76
91
2v 2v

.0875
16
5250
8 7 6
1.4.0 1

891
186
1077

35
12
22 8

9+30
+60
10
135
10+77

Pav. 1+11.2

4. " 1+87

" 2+50.1

265
2037
228
388.71

66.8
70.2
71.2

12 72 30
34
06

1477 15 ft.
10 ft.

42.47
37.27
76 10