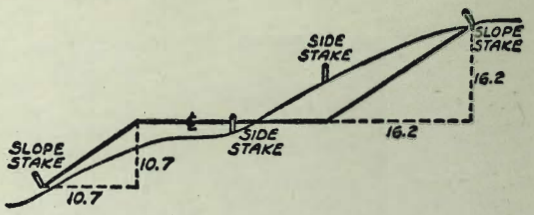
2257

GRADE ORDINANCE

X - SECT.



Distances from Side Stakes for Cross-Sectioning

Slope 1 to 1. Roadway of Any Width

	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	
0	0.00	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0
1	1.00	1.10	1.20	1.30	1.40	1.50	1.60	1.70	1.80	1.90	1
2	2.00	2.10	2.20	2.30	2.40	2.50	2.60	2.70	2.80	2.90	2
3	3.00	3.10	3.20	3.30	3.40	3.50	3.60	3.70	3.80	3.90	3
4	4.00	4.10	4.20	4.30	4.40	4.50	4.60	4.70	4.80	4.90	4
5	5.00	5.10	5.20	5.30	5.40	5.50	5.60	5.70	5.80	5.90	5
6	6.00	6.10	6.20	6.30	6.40	6.50	6.60	6.70	6.80	6.90	6
7	7.00	7.10	7.20	7.30	7.40	7.50	7.60	7.70	7.80	7.90	7
8	8.00	8.10	8.20	8.30	8.40	8.50	8.60	8.70	8.80	8.90	8
9	9.00	9.10	9.20	9.30	9.40	9.50	9.60	9.70	9.80	9.90	9
10	10.00	10.10	10.20	10.30	10.40	10.50	10.60	10.70	10.80	10.90	10
11	11.00	11.10	11.20	11.30	11.40	11.50	11.60	11.70	11.80	11.90	11
12	12.00	12.10	12.20	12.30	12.40	12.50	12.60	12.70	12.80	12.90	12
13	13.00	13.10	13.20	13.30	13.40	13.50	13.60	13.70	13.80	13.90	13
14	14.00	14.10	14.20	14.30	14.40	14.50	14.60	14.70	14.80	14.90	14
15	15.00	15.10	15.20	15.30	15.40	15.50	15.60	15.70	15.80	15.90	15
16	16.00	16.10	16.20	16.30	16.40	16.50	16.60	16.70	16.80	16.90	16
17	17.00	17.10	17.20	17.30	17.40	17.50	17.60	17.70	17.80	17.90	17
18	18.00	18.10	18.20	18.30	18.40	18.50	18.60	18.70	18.80	18.90	18
19	19.00	19.10	19.20	19.30	19.40	19.50	19.60	19.70	19.80	19.90	19
20	20.00	20.10	20.20	20.30	20.40	20.50	20.60	20.70	20.80	20.90	20
21	21.00	21.10	21.20	21.30	21.40	21.50	21.60	21.70	21.80	21.90	21
22	22.00	22.10	22.20	22.30	22.40	22.50	22.60	22.70	22.80	22.90	22
23	23.00	23.10	23.20	23.30	23.40	23.50	23.60	23.70	23.80	23.90	23
24	24.00	24.10	24.20	24.30	24.40	24.50	24.60	24.70	24.80	24.90	24
25	25.00	25.10	25.20	25.30	25.40	25.50	25.60	25.70	25.80	25.90	25
26	26.00	26.10	26.20	26.30	26.40	26.50	26.60	26.70	26.80	26.90	26
27	27.00	27.10	27.20	27.30	27.40	27.50	27.60	27.70	27.80	27.90	27
28	28.00	28.10	28.20	28.30	28.40	28.50	28.60	28.70	28.80	28.90	28
29	29.00	29.10	29.20	29.30	29.40	29.50	29.60	29.70	29.80	29.90	29
30	30.00	30.10	30.20	30.30	30.40	30.50	30.60	30.70	30.80	30.90	30
31	31.00	31.10	31.20	31.30	31.40	31.50	31.60	31.70	31.80	31.90	31
32	32.00	32.10	32.20	32.30	32.40	32.50	32.60	32.70	32.80	32.90	32
33	33.00	33.10	33.20	33.30	33.40	33.50	33.60	33.70	33.80	33.90	33
34	34.00	34.10	34.20	34.30	34.40	34.50	34.60	34.70	34.80	34.90	34
35	35.00	35.10	35.20	35.30	35.40	35.50	35.60	35.70	35.80	35.90	35
36	36.00	36.10	36.20	36.30	36.40	36.50	36.60	36.70	36.80	36.90	36
37	37.00	37.10	37.20	37.30	37.40	37.50	37.60	37.70	37.80	37.90	37
38	38.00	38.10	38.20	38.30	38.40	38.50	38.60	38.70	38.80	38.90	38
39	39.00	39.10	39.20	39.30	39.40	39.50	39.60	39.70	39.80	39.90	39
40	40.00	40.10	40.20	40.30	40.40	40.50	40.60	40.70	40.80	40.90	40
41	41.00	41.10	41.20	41.30	41.40	41.50	41.60	41.70	41.80	41.90	41
42	42.00	42.10	42.20	42.30	42.40	42.50	42.60	42.70	42.80	42.90	42
43	43.00	43.10	43.20	43.30	43.40	43.50	43.60	43.70	43.80	43.90	43
44	44.00	44.10	44.20	44.30	44.40	44.50	44.60	44.70	44.80	44.90	44
45	45.00	45.10	45.20	45.30	45.40	45.50	45.60	45.70	45.80	45.90	45
46	46.00	46.10	46.20	46.30	46.40	46.50	46.60	46.70	46.80	46.90	46
47	47.00	47.10	47.20	47.30	47.40	47.50	47.60	47.70	47.80	47.90	47
48	48.00	48.10	48.20	48.30	48.40	48.50	48.60	48.70	48.80	48.90	48
49	49.00	49.10	49.20	49.30	49.40	49.50	49.60	49.70	49.80	49.90	49
50	50.00	50.10	50.20	50.30	50.40	50.50	50.60	50.70	50.80	50.90	50

Distance of slope stake from side or shoulder stake for any width roadway, slope 1 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 XIII—CORRECTIONS FOR TANGENTS AND EXTERNALS

These corrections are to be added to the approximate values, found by dividing the tangent, or external, for a 1° curve (Table VIII) by the degree of curve, in order to obtain the true tangents, or externals. Intermediate values may be obtained by interpolation.

FOR TANGENTS ADD

Central Angle	Degree of Curve													
	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°
10°	03	.06	09	13	16	19	.22	.25	.28	.31	34	38	42	.46
15°	04	10	14	19	24	.29	.34	.39	45	.51	.53	58	.63	.68
20°	06	.13	19	26	.32	.39	.45	.51	.58	.65	.72	79	.84	.90
25°	.08	16	24	.33	40	49	.58	67	.75	.83	90	.99	1.06	1.14
30°	10	19	.29	39	49	.59	.69	79	.89	.99	1.09	1.20	1.29	1.39
35°	11	22	.34	47	.58	.69	.70	.81	.92	1.04	1.29	1.42	1.54	1.66
40°	13	.26	.40	.53	.67	.80	.93	1.06	1.20	1.34	1.49	1.64	1.79	1.94
45°	15	.30	44	60	76	91	1.06	1.21	1.37	1.52	1.70	1.87	2.04	2.21
50°	17	.34	.51	.68	.85	1.02	1.19	1.36	1.54	1.72	1.91	2.10	2.29	2.48
55°	19	38	.57	76	.95	1.14	1.32	1.52	1.72	1.92	2.14	2.35	2.56	2.77
60°	.21	42	.63	.84	1.05	1.27	1.49	1.71	1.94	2.17	2.38	2.60	2.83	3.07
65°	23	46	.69	.93	1.16	1 40	1.64	1.88	2.13	2.38	2.63	2.88	3.13	3.39
70°	25	.51	76	1.02	1.28	1.54	1.80	2.06	2.33	2.60	2.88	3.16	3.44	3.72
75°	.27	.56	.83	1.12	1.40	1.69	1.98	2.27	2.57	2.87	3.16	3.47	3.78	4.09
80°	30	.61	.91	1.22	1.53	1.84	2.15	2.46	2 78	3.10	3.44	3.78	4.12	4.46
85°	33	66	1.00	1.33	1.68	2.02	2.36	2 70	3.05	3.40	3.77	4.14	4.55	4 89
90°	36	.72	1.09	1.45	1.83	2.20	2.57	2.94	3.32	3.70	4.10	4.50	4.91	5.32
95°	39	79	1.19	1.55	2.00	2.40	2.80	3.20	3.61	4.02	4.40	4.98	5.38	5.83
100°	43	.86	1.30	1.74	2.18	2.62	3.06	3.50	3.95	4.40	4.88	5.37	5.85	6.34
110°	51	1.03	1.56	2.08	2.61	3.14	3.67	4.21	4 76	5.31	5 86	6.43	7 01	7 60
120°	62	1.25	1 93	2.52	3.16	3.81	4 45	5.11	5.77	6 44	7 12	7.80	8.50	9 22

FOR EXTERNALS ADD

Central Angle	Degree of Curve													
	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°
10°	.001	.003	.004	.006	.007	.008	.009	.011	.012	.014	.015	.017	.018	.020
15°	.003	.007	.010	.014	.018	.023	.027	.029	.032	.035	.039	.043	.047	.051
20°	.006	.011	.017	.022	.028	.034	.038	.045	.051	.057	.063	.070	.076	.083
25°	.009	.018	.027	036	.046	.056	.065	.074	.083	.093	.106	120	127	135
30°	.013	.025	.038	.051	.065	.078	.090	.103	.116	.129	.149	.170	.179	.188
35°	.018	.035	.054	.072	.086	.109	.131	.153	.175	.197	.213	.230	.247	.264
40°	.023	.046	.070	.093	.117	.141	.172	.203	.234	.265	.277	.290	.315	.341
45°	.030	.060	.093	.119	.153	.184	.216	.254	.289	.325	.351	.378	.411	.445
50°	.037	.075	.116	.151	.189	.227	.266	.305	.345	.384	.425	.467	.508	.550
55°	.046	.093	.142	.188	.236	.283	.332	.381	.420	.479	.530	.582	.641	.700
60°	.056	.112	.168	.225	.283	.340	.398	.457	.516	.575	.636	.697	.774	.851
65°	.067	.135	.204	.273	.343	.412	.483	.554	.625	.697	.711	.845	.922	1.01
70°	.080	.159	.240	.321	.403	.485	.568	.652	.735	.819	.906	.994	1.08	1.17
75°	.095	.182	.286	.383	.480	.578	.678	.777	.877	.977	1.07	1.18	1.29	1.39
80°	.110	.220	.332	.445	.558	.671	.787	.903	1.02	1.13	1.25	1.38	1.50	1.62
85°	.128	.259	.391	.524	.657	.790	.926	1.06	1.20	1.34	1.47	1.62	1.76	1.91
90°	.149	.299	.450	.603	.756	.910	1.07	1.22	1.38	1.54	1.70	1.87	2.03	2.20
95°	.174	.350	.522	.706	.985	1.06	1.25	1.43	1.62	1.80	1.99	2.18	2.38	2.58
100°	.200	.401	.604	.809	1.01	1.22	1.43	1.64	1.85	2.06	2.28	2.50	2.73	2.96
110°	.268	.536	.806	1.08	1.35	1.63	1.91	2.20	2.48	2.76	3.05	3.35	3.66	3.96
120°	.360	.721	1.08	1.45	1.82	2.19	2.57	2.95	3.33	3.72	4.11	4.50	4.91	5.32

Pg

X-Sec Euclid - Market - Imperial — 1-5

X-Sec Orange Ave. Winona to 51st — 6-15

X-Sec 51st Orange to Trojan — 16-20

X-Sec Altadena Orange to Trojan — 21-25

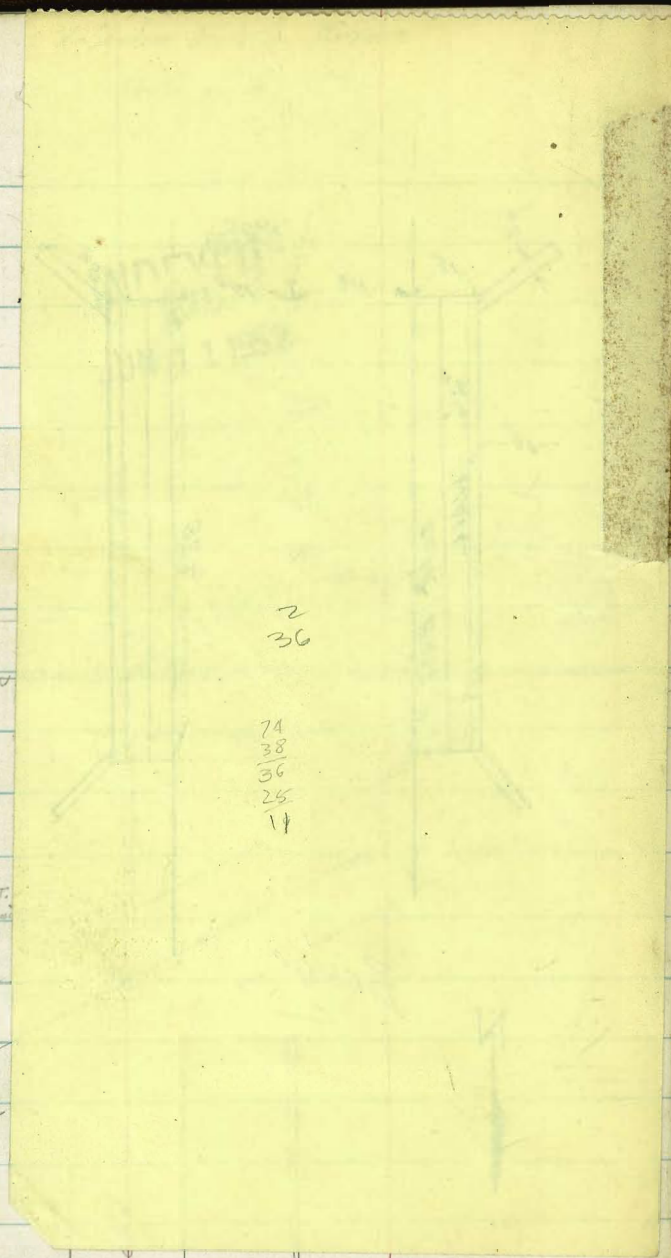
X-sec Trojan Altadena to 51st — 26-28

2 Profile Alley Blk 42, Tract #1368 — 29-40

X-sec upshur + Shafter - Scott to Cañon — 45-

X-sec Scott - Talbot to cañon — 46

Roberts
Cota
Moore
Morales
6-11-53
WO # 25020



2
36

74
38
36
25
11

℄ Chu

Fd Ld & C.T.
Set # PK Cross

℄

℄

℄

S.D. & A.E. RRy.

R.O.W.

0+36.75 = ℄ Track

Fd Ld & Disc

{0+00
So. Edge of Bridge 24 x 32'

294.30'

Euclid Ave.

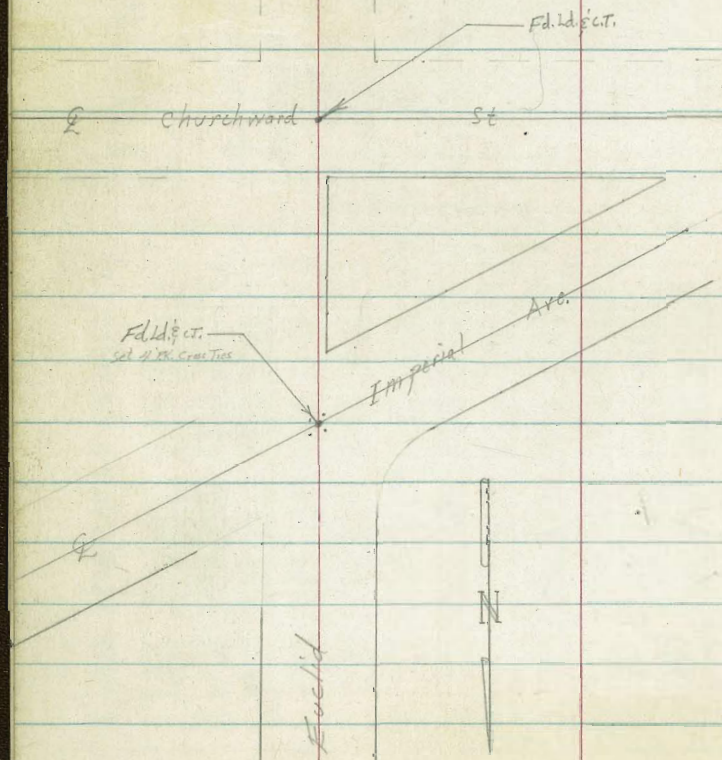
℄ Market Street

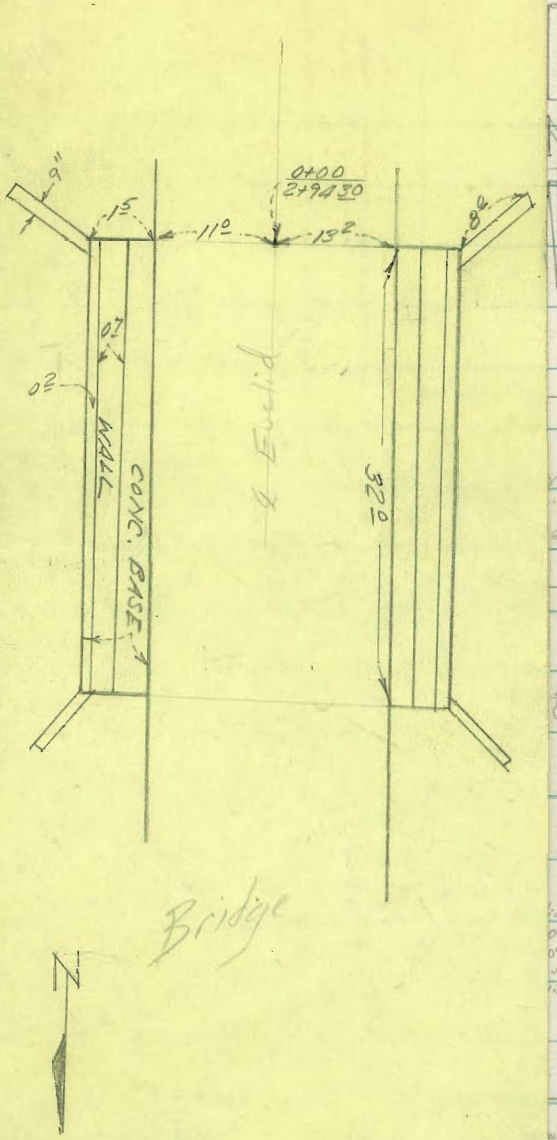
Euclid Ave.:
60' Street - Row - Varies
{20' Strip of Concrete
{Cowcrk with AC and
Width varies.

Fd Ld. & C.T.
Set # PK Cross Tie

Roberts
Cota
Moore
Morales
6-11-53
W.O. # 25020

X-Section Euclid Avenue
South of Market





0+00
So. Edge of Bridge 24'x32'

Fd 2d. & C.T.
Set 4 PC Cross Ties

Contd From Page 1

			Lt	℄	Rt
2+50			101.5 101.6 101.6 102.7 103.14	103.46	103.18 104.5 105.2
			6.6 6.5 6.5 5.4 4.85	4.63	4.91 3.6 2.9
			40 30 26 21 15		15 30 70
1+30			100.0 101.1 103.3 103.34 104.0		103.5 102.7 104.0 102.6
			8.1 7.0 4.8 4.75 4.10		4.61 5.4 4.1 5.5
			37 30 24 15		16 24 30 70
1+00			99.9 100.4 103.5 103.48	104.04	103.66 103.6 100.2 99.0
			8.2 7.7 4.6 4.61	4.05	4.43 4.5 7.9 9.1
			40 30 26 14		15 23 30 40
0+85	22' Rt to center P.P.				
0+50			102.0 102.8 103.3 104.3	104.28	103.93 103.4 100.1 100.2
			6.1 5.3 4.8 3.80	3.81	4.16 4.7 7.4 7.9
			40 30 25 12		15 24 30 40
0+36.75	Center of R.Ry. Track			104.37	104.36 104.14
				3.72	3.73 3.95
				14	14
0+00	South Edge of Bridge - 294.3 South of ℄ Market			103.63	103.96 103.61
				4.46	4.13 4.48
				112	132
BM	3.87	108.09 Δ	B.P. NW Corner of Bridge 104.22 in Euclid 200' South of Market.		108.09 Δ

Contd From Page 2

Lt | ℄ | Rt

5+50

122.5 123 124.8 122.5 122.92 123.62 123.49 124.3 124.0 124.5 110.7 110.7
8.5 8.7 6.2 8.5 8.08 7.38 7.51 6.7 7.0 6.5 20.3 20.3
40 35 30 25 15 15 24 30 44 56 70

T.P. 11.42 131.00℄ 0.35 119.58

131.00℄

54.11 22° Rt to center P. Pole #178803

5+00

117.1 117.3 117.7 118.13 118.49 118.2 118.8 118.7 110.8 110.1
2.8 2.6 2.2 1.80 1.44 1.70 1.1 1.2 9.1 9.8
40 30 24 13 15 30 43 56 70

4+00

107.2 107.3 107.4 108.58 108.1 108.50 108.7 108.4 109.0
12.7 12.6 12.5 11.35 10.80 11.40 11.2 10.5 10.9
40 30 25 14 15 30 52 70

3+50

105.4 105.3 106.15 105.9 105.9 106.5 106.4 107.0 109.2 108.1
14.5 14.6 13.78 14.0 14.0 13.4 13.5 12.9 11.7 11.9
40 30 15 15 21 30 50 56 70

T.P. 12.42 119.93℄ 0.58 107.51

119.93℄

3+34 22' Rt to center P. Pole # 178804

3+00

103.2 103.3 104.0 103.37 103.93 103.59 105.1 106.1 107.8 107.4
4.7 4.8 4.1 4.72 4.16 4.50 3.0 2.0 0.3 0.7
40 30 21 14 14 30 48 53 70

108.09℄

108.09℄

Cont'd From Page 5

9+00

8+43 - 21ERt to Center P.Pole # 177477

8+00

6+89 End Factory Area

6+80 21ERt to Center P.Pole #177476

6+50

T.P. 8.17 138.45 T 0.72 130.28

6+00

131.00 T

Lt ℄ RT 4

137.4 137.4 135.3 135.08 135.33 134.85 134.5 140.5 140.6
1.1 1.1 3.2 3.37 3.12 3.60 4.0 +2.0 +2.1
40 30 20 13 15 24 30 40

135.0 135.1 134.0 133.71 134.11 133.78 133.3 131.5
2.6 3.4 4.5 4.68 4.34 4.67 5.2 7.0
40 30 22 14 15 30 40

134.8 133.9 132.45 132.19 132.8 132.43 130.9 131.2 111.2 111.3
3.7 4.6 6.0 6.26 5.70 6.02 7.6 7.3 28.3 27.2
40 30 25 13 15 30 45 63 70

135.8 135.6 130.6 131.00 131.57 130.18 131.6 130.3 131.7 111.1 111.1
2.7 2.9 7.9 7.45 6.88 7.27 6.9 7.7 6.8 27.4 27.4
40 30 23 15 15 25 30 45 63 70

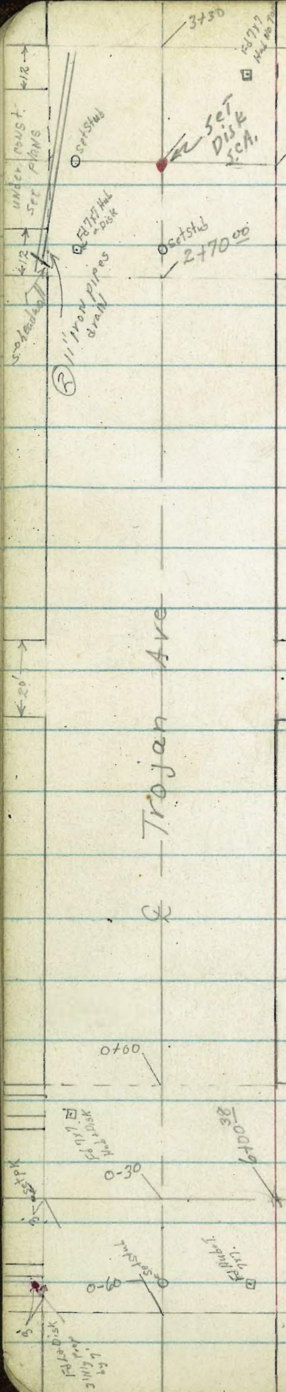
138.45 T

135.2 135.1 127.3 127.97 128.43 127.90 128.4 127.6 128.0 111.0 111.0
+4.2 +4.1 2.7 3.03 2.57 3.10 2.6 3.4 3.0 20.0 20.0
40 30 23 14 16 23 30 44 60 70

137.00 T

Cont'd From Page 4

Check			-8.98	104.25 = 104.22
T.P.	0.63	113.23	13.06	112.60
T.P.	0.16	125.66	12.95	125.50
			138.45 ft.	



51st St.

1+36 15 Rt 30" Corr. Pipe Inlet

0+87 31 Rt outlet 30" Corrugated Pipe

60

Cross Sec: Altadena - Orange to Trojan

51st St - Orange to Trojan

Trojan - Altadena to 51st

Orange - Winona to 51st

WO# 32002
9-21-53

D. Smith
J. Rorer
R. Taylor
B. Fish

▣ = Hub 2x2
⊙ = Stub 1x1
● = L + Disk or tack
• = Nail

Took soil samples

℄ int Orange & Altadena
℄ int Orange & 51st St.
℄ int Trojan & 51st St.
℄ int Winona & Orange
℄ int Trojan & Altadena

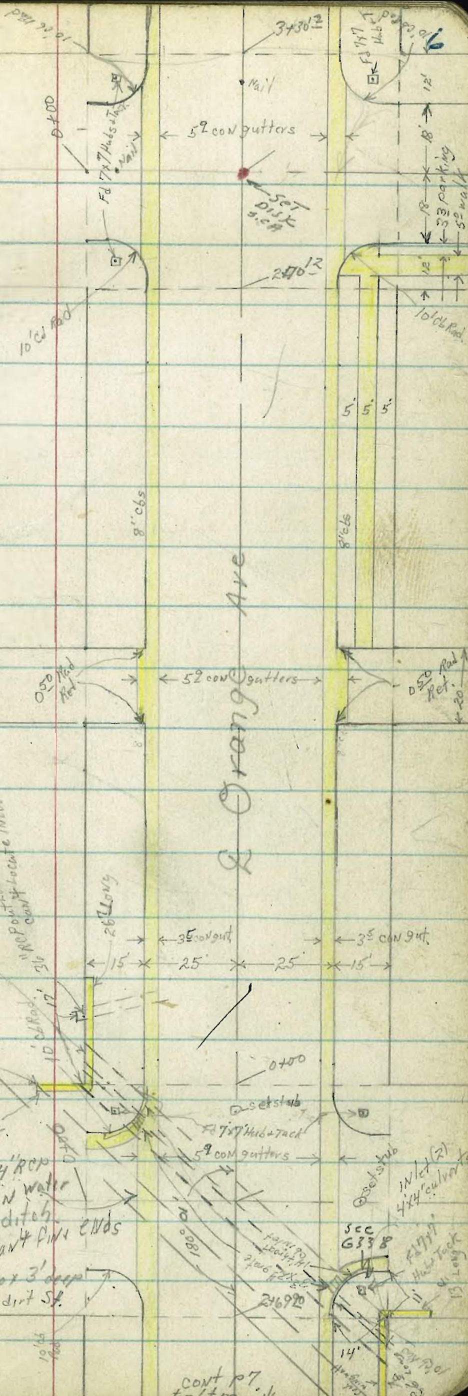
For Staking of improvements
See G 338

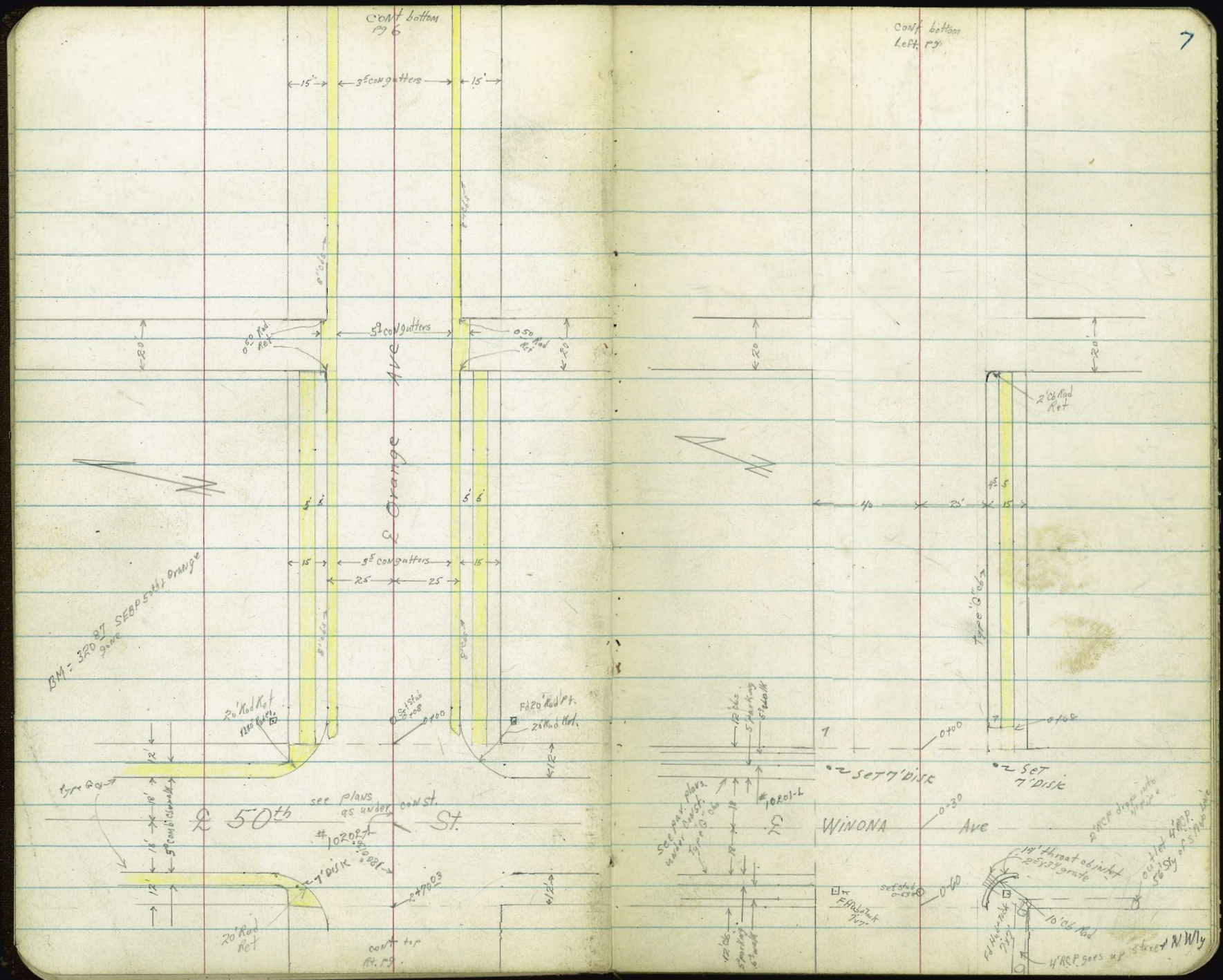
Curb Radius Points Set from Tie Points

℄ Altadena Ave

30'
30'
60'

water Main ℄ 54" RCP see in water main ditch but can't find ends
top approx 3' deep below dirt St.




cont bottom pg 6
15'
3 @ con gutters
15'
cont bottom Left pg
5 @ con gutters
20'
0.50 Rad Ret
Orange Ave
5'
5'
BM - 3RD 87 SEBP 5th & Orange
20' Rad Ret
Set stub 0+08
0+00
Fd 20' Rad Pt.
20' Rad Ret.
12'
Type 'C' curb
18'
18'
5' Combination walk
℄ 50th
see plans as under const.
St.
#10201-1
Set 7' disk
0+70.03
cont top Rt. pg
20' Rad Ret
Type 'C' curb
2' CB Rad Ret
40
25'
5'
15'
0+00
0+08
Set 7' disk
Set 7' disk
12' Dia. Standing Manhole
#10201-1
see plans under const.
Type 'C' curb
WINONA
Ave
0+30
0+60
Fd Hub & tack
12' Dia. Standing Manhole
set stub 0+53.2
Fd Hub & tack
19" Throat ab inlet
2-5'x3' grate
4' RCP drop into MH #2
out let 4' RCP 56 Sty at 5.4%
10' dia Rad
4' RCP goes up
Street N Wly

"X" Sec. Orange Ave
Winona to 5th St

0+00	Ely Winona	40° Lt Begin			conc block wall footing @ Ex Grade
0-12	Ely C6 Line	Winona			
0-30	E Winona				
0-48	Wly C6 Line	Winona			
Mid Pt	Ret	S.W. cor			
0-60	Wly	Winona	see page 44		
TP1	3^{86}	332^{61}	5^{97}	328^{75}	Spike in Pole #4979 SW cor Orange & Winona
BM	177	334^{72}		332^{25}	SE BP Orange & 495 St

Lt = Wly ℄ Rt = Sly

328.6	328.2	327.9	327.7	327.4	326.9	327.3	327.0	
4°	4^{7}	4^{3}	4^{9}	5^{2}	5^{7}	5^{3}	5^{6}	
40	25	13		13	25	29	40	
329.51	329.04	328.2	328.0	327.8	327.4	327.0	327.4	327.0
3^{10}	3^{57}	4^{7}	4^{6}	4^{8}	5^{2}	5^{6}	5^{2}	5^{6}
40 C6 int	40 Sht end	25	13		13	25	30	40
329.1	328.5	328.3	327.9	327.3	327.0	327.5	326.9	
3^{32}	4^{1}	4^{2}	4^{7}	5^{3}	5^{6}	5^{1}	5^{7}	
40	25	13		13	25	28	40	
329.81	329.35	328.5	328.3	327.9	327.3	326.8	326.7	327.46	326.4
2^{80}	3^{26}	4^{1}	4^{3}	4^{7}	5^{3}	5^{8}	5^{9}	5^{15}	6^{2}
40 C6 end	40 Sht end	25	13		13	25	35 Sht	35 C6 end	40
327.75	326.63								
4^{82}	5^{28}								
C6	grade								
330.6	329.5	328.4	328.3	327.9	327.3	326.8	327.60	327.50	326.8
2°	3^{1}	4^{2}	4^{3}	4^{7}	5^{3}	5^{8}	5^{21}	5^{1}	6^{3}
40	31	23	13		13	25 Sht	23 C6 end	36	40

Canyon dump Fill beyond

π 332^{61}

27.2 Lt ℄ 6" P Pole #187

1+45 Ely Alley

1+25 Wly Alley end cbc walk on Rt

1+16 25° Lt ℄ 15' con drive

1+12 25° Rt ℄ 17.5 con drive

1+00

0+71 26° Lt ℄ 2.5 con walk

0+55 25° Rt ℄ 18° con drive

0+28 26.8 Lt ℄ 8" P Pole #186

0+08 25.2 Rt Begin cb & walk see sketch

0+05 26.6 Rt ℄ Fire Hyd.

Lt = Nly ℄ Rt = Sly

328.4 325.8 325.5 324.6 324.8 324.6 324.2 323.9 324.3 324.6

329.8 326.6 325.1 325.4 325.1 324.7 324.45 324.76 325.09 325.13

329.16 327.16

324.76 324.83 325.30

327.0 326.3 325.7 326.0 325.8 325.5 324.95 325.44 325.53 325.2

326.97 326.90

327.4 327.0 326.6 326.9 326.8 326.5 325.90 325.97 326.47 326.50 326.05

328.2 327.7 327.8 327.6 327.3 326.81 327.29 327.33 327.42 327.0

T 332.61

0+00 Ely 50th St.

3+00 03 E 50th

2+70 03 W/y 50th St

2+69 26 Rt E 12" Power Pole #4999

2+62 Chord Lt please check const plans #10202-L

2+53 26 Lt E 12" P Pole #188

2+20

2+08 25 Rt E 2" conc walk

1+80

1+72 25 Lt E deadman

1+55 39 Rt E double garage conc floors gone

Nail in P Pole #4975 1+25 2 Rt

TP2 3.73 329.25 7.09 325.52

Lt = Nly

Rt = Sly

322.6 322.25 321.92 321.1 320.9 320.9 320.6 319.9 320.83 321.05 321.2

322.3 321.9 321.7 321.5 321.4 321.1 321.2

324.7 323.13 322.96 322.2 322.3 321.4 321.0 320.0 321.0 322.1

325.1 325.2 323.18 321.4 322.9 321.8 321.6 320.5 321.6 322.9

326.2 324.3 323.7 323.1 323.2 323.1 322.8 322.0 323.0 323.3

323.13 323.45

325.4 324.3 323.8 323.9 323.8 323.4 322.9 323.6 324.0

324.53 324.85

TI 329.25

Lt = Nly

2430

1490 25° Lt & 14° con driveway

1445 Ely Alley

1425 Wly Alley

TP3 2.89 318.95 12.69 316.56

0490

0450

0408 C6 EC, Lt & Rt

318.95 is²

329.25

Mid Pt Returns

3+17.90 Ely C6 Line Altadena

2+99.90 ℄ Altadena

2+81.90 Wly c6 Line Altadena

Mid Pt Returns

TP4 BM 5^{48} 318^{21} 6^{22} 312^{73} NWBP Orange Altadena

2+69.90 Wly Altadena

2+53 41^{3} NE 36 RCP outlet

2+43 Rt wly end Headwall

Lt = Nly

312.54 311.47 ℄

5^{69} C6 6^{74} gut grate

314.6 312.06 311.8 311.49 311.75 311.7

3^{6} 90 6^{16} 40 C6 6^{4} 40 gut 6^{32} 25 gut 6^{46} 21.0 gut 6^{5} 13 6^{8}

315.3 312.3 312.0 311.7

2^{9} 90 5^{9} 40 6^{3} 27.5 gut broken 6^{5} 25 gut 6^{13} 21.3 gut .13

315.0 312.57 312.21 311.82 311.61 311.85 311.8

3^{32} 90 5^{64} 40 C6 6^{0} 40 gut 6^{32} 27.5 gut 6^{60} 25 gut 6^{36} 21.2 gut 6^{4} 13 6^{8}

312.63 311.84

5^{58} C6 6^{32} gut

Rt = Sly

310.62 311.32

7^{59} gut 6^{87} C6

311.4 311.0 310.69 310.42 310.62 309.9 311.17 308.5 306.5

7^{2} 13 7^{52} 21.5 gut 7^{79} 25 gut 7^{59} 27.2 gut 8^{3} 40 gut 7^{04} 40 C6 end 9^{2} 33 11^{2} 90

311.3 311.0 310.68 310.32 310.60 309.7 306.3

7^{2} 13 7^{53} 21.2 gut 7^{89} 25 gut 7^{61} 27.3 gut 8^{5} 40 11^{2} 90

311.4 311.1 310.66 310.90 310.47 310.39 311.39 310.8 307.7

7^{-} .13 7^{55} 21.8 gut 7^{81} 23 gut 7^{74} 27.2 gut 7^{82} 40 gut end 6^{82} 40 C6 end 7^{4} 47 10^{5} 57 304.8 134 90

310.92 311.48

7^{79} gut grate 6^{73} C6

318^{21}

313.3 312.68 311.75 311.92 312.0 311.8 311.3 310.61 310.47 311.48 311.36 303.50

5^{7} 40 6^{27} 25 C6 7^{20} 25 gut 7^{03} 21.5 gut 7^{0} 13 7^{2} 7^{2} 13 8^{34} 21.5 gut 8^{16} 25 gut 7^{47} 25 C6 7^{39} 39 Face wall 15^{36} 39 1F (2) 4'□ Conc drains

309.02

14^{23} 41^{3} 18

311.26

7^{69} 39 Top

T 318^{85}

Lt = Nly ℄ Rt = Sly

1785 25' Rt ℄ 12' conc driveway

1770

1745 Ely Alley

1725 Wly Alley

0790

0750

0700 Ely Alhadena

	Lt = Nly	℄	Rt = Sly
1785 25' Rt ℄ 12' conc driveway			315.18 315.38 316.16 316.51 3.03 2.83 2.05 1.70 25 gut 25 4in 30 w/k 35 w/k
1770	310.6 315.4 315.42 314.56 314.81 315.7 7.6 2.8 2.79 3.65 3.40 2.5 2 30 40 25 CG 25 gut 21.5 gut 13		316.0 315.4 314.19 313.96 314.80 315.22 2.8 4.02 4.25 3.41 2.99 13 21.3 gut 25 gut 25 CG 35 w/k
1745 Ely Alley	313.99 313.6 313.99 313.05 313.96 312.57 313.29 314.4 314.5 4.22 4.6 4.22 5.16 4.25 5.24 4.92 3.8 3.7 40 CG end 40 gut 27.3 CG 27.5 gut 25 CG 25 gut 21.5 gut 13		314.1 312.53 312.23 313.24 312.32 313.26 312.8 313.19 4.2 5.45 5.28 4.97 5.89 4.25 5.4 5.02 13 21.5 gut 25 gut 25 CG 27.5 gut 27.5 CG 40 gut 40 CG end
1725 Wly Alley	313.36 312.7 313.30 312.60 313.35 312.96 312.70 313.7 4.85 5.2 4.91 5.61 4.86 5.75 5.50 4.5 4.4 40 CG end 40 gut 27.3 CG 27.5 gut 25 CG 25 gut 21.5 gut 13		312.8 314.4 311.64 311.50 312.46 311.60 312.42 312.7 312.61 5.0 6.37 6.21 5.25 6.4 5.29 5.5 5.60 13 21.5 gut 25 gut 25 CG 27.5 gut 27.5 CG 40 gut 40 CG end
0790	308.5 311.3 312.4 313.10 312.49 312.46 312.9 9.7 6.2 5.8 5.11 6.02 5.75 5.3 5.4 50 40 38 25 CG 25 gut 21.5 gut 13		312.8 312.5 311.48 311.23 312.16 312.2 5.7 6.73 6.28 6.05 6.0 13 21.5 gut 25 gut 25 CG 40
0750	308.0 311.4 312.6 312.72 311.84 312.11 312.2 10.2 6.8 5.6 5.43 6.37 6.10 6.0 6.1 50 40 39 25 CG 25 gut 21.5 gut 13		312.1 311.7 311.08 310.83 311.76 311.6 6.5 7.13 7.38 6.45 6.6 13 21.5 gut 25 gut 25 CG 40
0700 Ely Alhadena	305.44 312.33 312.31 311.43 311.65 311.8 311.5 12.77 5.88 5.90 6.76 6.56 6.4 6.7 39 39 25 CG 25 gut 25 gut 13 1e. (2) 4'x4' Corr Box Culverts. for wall		311.2 310.66 310.38 311.35 311.1 310.5 7.0 7.55 7.83 6.86 7.1 7.7 13 21.5 gut 25 gut 25 CG 38 40

318.21

2+82.12 Wly C6 Line 51st St.

Mid Pt Returns →

2+72.13 C6 B.C. also grade Brk in C6's

2+70.12 Wly 51st St

Tp 10.03 337.39 0.15 327.36

#194 Nail in Pole NW cor 51st & Oreana

2+45

2+20

2+13 25' Rt & 13' Con driveway

1+95

Tp 10.22 327.51 0.22 317.29

Lt = Nly

Rt = Sly

329.00 327.3 328.93 327.7 328.02 327.88 328.08 328.5 328.8 329.1 329.01 328.85 329.04 329.3 330.02 329.56 330.04 330.03 330.51

8.39 10 8.46 9.7 9.37 9.51 9.31 8.9 8.6 8.3 8.38 8.57 8.35 8.1 7.37 7.83 7.35 7.36 7.18

40 40 33 35 25 25 25 13 13 25 25 25 35 35 40 40 90 90

C6 end Gut Gut C6 BC Gut Gut Gut Gut Gut Gut Gut dirt Gut dirt EC C6 Gut C6

328.55 327.67 328.89 329.85

8.50 9.28 8.50 7.54

C6 Gut Gut C6

328.1 328.11 327.56 327.83 327.5 327.8 328.1 328.49 328.36 329.30 329.62

9.3 9.28 9.83 9.58 9.9 9.6 9.3 8.90 9.03 8.09 7.77

40 25 25 25 13 13 25 25 25 35

C6 BC Gut Gut Gut Gut Gut Gut C6 Wlk

327.7 327.78 327.13 327.46 327.4 327.5 327.4 328.29 328.04 329.02 329.64 329.6

9.7 9.61 10.26 9.93 10.1 9.9 9.5 9.10 9.35 8.37 7.75 7.8

40 25 25 25 13 13 25 25 25 35 40

C6 Gut Gut Gut Gut Gut C6 Wlk

317.9 323.9 329.27 323.40 323.51 337.39 324.2 324.1 323.88 323.64 324.51 325.03

9.6 3.6 3.24 4.11 4.00 3.5 3.3 3.4 3.6.3 3.87 3.00 2.48

50 40 25 25 25 13 13 25 25 25 35

C6 Gut Gut Gut Gut Gut Gut C6 Wlk

314.0 319.4 320.3 320.51 319.52 319.85 320.6 320.8 320.5 319.97 319.78 320.56 320.95

13.5 8.1 7.2 7.0 7.29 7.66 6.9 6.7 7.0 7.54 7.73 6.85 6.56

50 40 38 25 25 25 13 13 25 25 25 35

C6 Gut Gut Gut Gut Gut C6 Wlk

318.88 318.89 319.78 319.97

8.63 8.52 7.73 7.54

25 25 30 35

Gut Gut Gut Wlk

311.71 316.6 317.5 317.64 316.71 317.02 317.81 318.0 317.4 316.45 316.47 317.31 317.62

15.8 10.9 10.0 9.87 10.80 10.49 9.7 9.5 10.1 10.86 11.10 10.20 9.89

50 40 38 25 25 25 13 13 25 25 25 35

C6 Gut Gut Gut Gut C6 Wlk

327.51

Lt = N'ly & Rt = S'ly

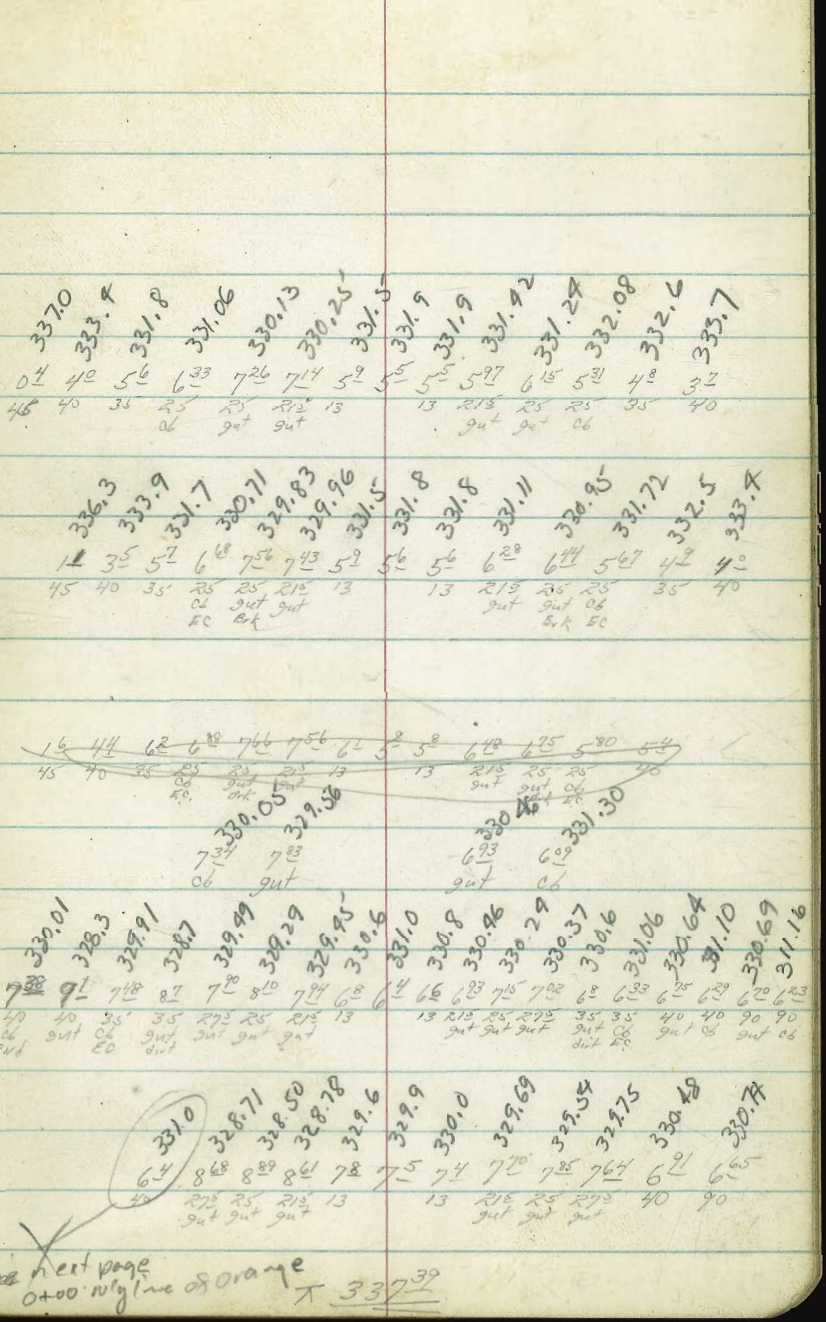
3+30.12 E'ly 51st St

3+28.12 Cb EC's also Cb Brk's in grade

Mid Pt. Returns

3+18.12 E'ly Cb Line 51st St.

3+00.12 ℄ 51st St



"X" Sec 51st St Orange to Trojan

1+25 45° Rt 23° on walk

1+00

0+87 31.9 Lt end outlet 30" corrigated iron Pipe

TP8 3°20 318.64 11.67 315.44

0+75

0+50

TP9 0°0 327.11 11.18 326.21

0+25

0+00 Nly Orange Ave end obs.

Lt = Nly Rt = Ely

314.7 314.4 314.3 314.5 314.1 313.9 314.5 315.1 315.2 317.1 16

3.2/45 4.2/30 4.3/25 4.4/9 4.5 4.2/9 4.4/17 3.5/21 3.4/30 15.0/45 walk

312.5 312.4 312.6 316.1 316.2 316.1 316.2 316.8 316.5

6.1/45 6.2/30 6.0/27 2.5/19 2.4/9 2.5 2.4/9 1.8/18 +2.1/30

307.4

11.12/31.9 1e

TP8 318.64

310.5 313.6 318.0 317.7 318.7 319.0 318.9 319.1 321.7 322.9 324.1

16.6/45 13.5/30 9.1/19 9.2/17 8.4/9 8.1 8.2/9 8.2/15 5.4/18 4.2/25 3.0/30

315.1 317.4 321.6 320.6 321.6 322.1 322.7 322.8 329.1 331.9

12.0/40 9.7/30 5.5/19 6.5/18 5.5/9 5.0 4.6/9 4.5/16 +2.0/19 +4.8/30

TP9 327.11

317.4 319.8 324.2 323.9 324.1 325.2 325.4 325.4 331.7 334.2

20.0/45 17.6/30 13.2/18 14.0/17 13.3/9 12.2 12.0/9 12.0/16 5.7/19 3.2/30

327.7 329.00 327.2 327.6 327.9 328.1 328.3 328.9 330.01 333.4

9.7/30 8.39/18 CL end 10.8/18 9.4/9 9.5 9.3/9 9.1/14 9.0/18 out 7.38/18 CL end 4.0/30

π 337.39

3+25 29° Rt Begin 3' high rail fence

3+00

TP 12.75 331.33 0.06 318.58

2+50

2+29 36' Lt & 4° con walk

2+05 36' Lt & 8° drive con

2+00

1+90 30° Lt & 8° con drive Please Note: Floor of house is same as garage

1+50 30° Lt Begin 6" con wall

1+36 15' Rt & 30" corrigated iron pipe inlet

1+32 43' Rt & 8° con drive

1+27 31' Lt & 3° con walk

Lt = Wly & Rt = Ely

322.4 8.9 40
321.3 10.3 30
319.5 11.8 24
318.3 13.0 23
319.1 12.2 10
318.6 12.7 15
316.7 14.6 30
314.7 16.6 45
314.3 17.0 45

331.33

316.3 2.3 45
315.7 2.9 30
315.7 2.9 15
315.3 3.3 8
314.6 4.0 23
314.0 4.6 30
313.7 4.2 45
313.1 5.5 45

315.12 3.52 41'
315.11 3.53 36' Lt
314.33 4.31 51' Lt drive
314.08 4.56 36' Lt

314.1 4.5 45
314.5 4.1 30
314.5 4.1 19
314.5 4.5 10
314.1 4.9 8
313.5 5.1 19
313.5 5.1 30
313.4 5.2 32
312.8 5.8 45
312.5 6.1 45

315.02 4.52 45 Floor
314.09 4.55 40 drive
314.03 4.61 30 drive

313.5 5.1 45
313.3 5.3 30 Proj. Top wall
314.00 4.64 30
313.7 4.9 30
313.6 5.0 18
313.4 5.2 9
313.4 5.2
313.1 5.5 7
313.3 5.3 12
313.8 4.8 19
311.9 6.7 24
310.4 8.2 28
311.7 6.2 30
314.3 3.3 32
314.8 3.8 45

309.08 9.56 15.4 Ic
316.03 2.61 43' drive
316.23 2.41 Floor 49'

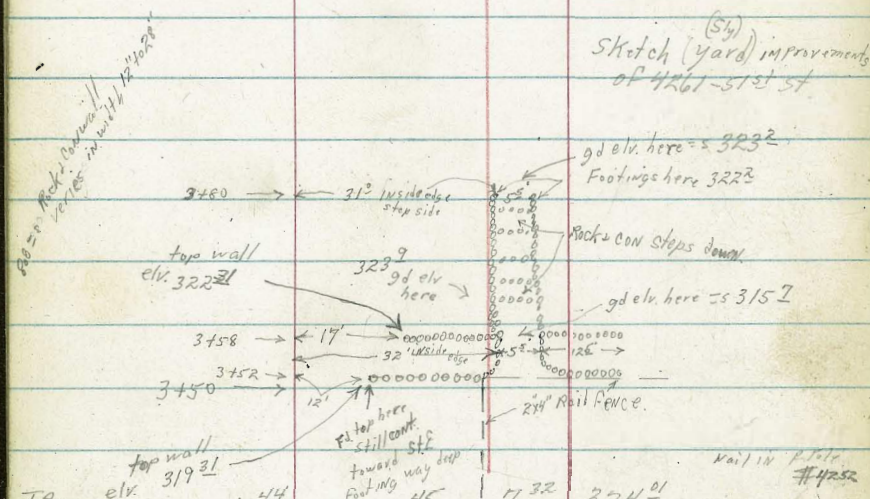
313.94 4.70 41' walk
314.44 4.20 31'

T 318.64

Lt = Wly ℄ Rt = Ely

Ely Row Line

℄ 51st St



3+83 28° Rt ℄ 3° con walk

3+50 29' Rt end 3' high rail fence

3+49 ℄ 22.4 Lt ℄ 10" P Pole # 4252

21.3 Rt ℄ 12" Anchor Pole # gone

334.45

323.95 323.92 323.79

7.38 7.44 7.54

28° 30° 40

Wlk

327.23 325.4 324.53 322.3 322.2 323.0 322.1 316.5 316.0 315.7

4.1 5.9 6.8 9.0 8.1 8.3 9.2 14.8 15.3 15.4

40 30 24 21 11 12 23 30 40

331.33

5+39 36° Lt & 3° con walk

5+30

TP 11 13.27 347 37 0 35 334 L°

5+00

4+65

4+36 37.3 Lt & 3° con walk

4+30

4+21 28° Rt & 2" Apricot tree

4+12 39.3 Rt & double garage conc floor + apron 20' wide

4+00

Lt = Wly ℄ Rt = Ely

340.69 339.85

6.68 7.52

46 36

w14

339.6 339.3 337.8 336.1 335.4 334.7 336.0 334.1 331.0 328.9

7.8 8.1 9.7 11.3 12.0 12.2 11.4 13.3 16.4 18.5

45 30 30 15 7 9 15 30 45

π 347 37

333.1 333.6 333.3 332.2 331.5 332.4 327.0 325.7 323.7

1.4 0.2 1.2 2.3 3.0 2.1 7.5 8.8 10.8

45 30 17 5 8 25 30 45

331.4 331.4 331.0 329.9 329.4 329.9 323.5 323.2 321.6

3.1 3.1 3.5 4.6 5.1 4.6 11.0 11.3 12.9

45 30 15 6 10 25 30 45

331.66 331.32

2.79 3.13

47.3 37.3

w14

331.1 330.2 329.6 229.0 229.1 328.2 327.4 328.0 325.3 322.4

3.4 4.3 4.9 5.5 5.4 6.3 7.1 6.5 9.2 12.1

40 30 25 20 12 7 17 30 40

323.68 323.95

10.77 10.50

39.3 apron 47.0 floor

331.1 329.6 327.2 327.3 326.6 325.3 324.6 323.6

3.4 4.9 7.3 7.2 7.9 9.2 9.9 10.9

40 30 22 10 13 30 45

π 334 45

Lt = W'ly ℄ Rt = E'ly 20

Reduced
E
Boyd
2-24-54

BM starting			1 76	332 94	332 85 SE Cor. Orange & 49th St
TP		10 15	334 70	0 20	324 55
TP & BM #12		12 03	324 75		312 73 NW BP Orange & Altadena
TP 12			7 73	348 82	SE Hub 9x7 Trojan 5 1st 348 73 FD 1967
6+00 15 Sly Trojan					
TP 12		9 49	356 55	0 31	347 06
5+93 21½ Rt ℄ Fire Hyd.					
5+60					

348.1 345.6 345.9 346.5 346.4 346.0 347.1 348.3 347.5 346.6
8 5 11 0 10 7 10 1 10 2 10 6 9 5 8 3 9 1 10 0
30 23 18 10 8 18 21 30 45

T 356 55

342.1 341.2 339.8 339.9 339.4 338.6 337.7 339.6 338.0 337.3 336.1
5 3 6 2 7 6 7 5 8 0 8 8 7 7 7 8 9 1 10 1 11 3
40 30 21 11 8 9 18 22 30 45

T 347 37

"X" Sec Altadena St.
Orange to Trojan

TP1	8 48	330 55	1 03	322 07
1+10 29 Rt @ 8° con drive				
1+04 35 Lt @ 3° con walk				
1+00 30° Rt end con block wall				
0+96 30° Rt @ 2 5 con walk				
0+67 30° Rt begin con block wall				
0+50				
0+37 42 5 Lt @ 8° con drive				
0+13 29° Rt end Headwall				
0+00 N'ly Orange				
BM - pk TP4	10 37	323 10		312 73 NWBP Orange & Altadena

Lt = N'ly @ Rt = E'ly

318.74 318.31
4 36 4 29
29 5 drive 40

323.35 323.13
+0 25 +0 03
45 walk 35

323.3 323.2 321.5 319.7 318.8 319.3 318.5 318.0 318.5 320.25 319.0 317.4 317.8
+0 2 0 1 1 6 3 4 4 3 3 8 4 6 5 1 4 6 2 8 5 5 7 5 3
45 35 30 21 20 12 16 17 30 30 90 Pooling 45
Tot wall

317.87 317.86
5 23 5 24
30 walk 40

316.3 315.2 319.43
6 8 7 9 8 67
30 90 Pooling 30
90 Tot wall

318.7 316.8 315.7 314.8 315.2 314.9 315.2 316.6 315.5
4 4 6 3 7 4 8 3 7 9 8 2 7 9 7 5 7 6
45 30 21 20 8 20 30 45

316.21 316.07
6 89 7 03
32 5 drive 42 5

312.31
10 79
Top wall 89

313.3 312.56 312.2 312.3 312.2 312.1 312.3 305.3
9 8 10 54 10 9 10 8 10 9 11 0 10 8 17 8
30 18 3 Ce end 18 3 sur 10 7 28 30

323 10

2480 30^{3} Lt £ 3° con walk

2470

2435

2410 32° Lt £ 7^{45} con ribbon drive 2° eq

2400

1488 30^{2} Rt £ 8° con drive

1470

1453 30° Rt £ 2^{5} con walk

1435

1432 30^{3} Rt £ 2^{8} con walk

Lt = Wly £ Rt = Ely

329.55 329.40 328.15
1° 1^{15} 2^{40}
43^{6} 38^{6} 30^{3}
brk wlk

329.3 329.1 327.7 327.3 326.6 326.7 325.9 326.0 325.7 325.0
1^{3} 1^{5} 2^{9} 3^{3} 4^{0} 3^{9} 4^{7} 4^{6} 4^{9} 5^{6}
45 38 30 25 21 12 16 30 45

328.1 327.4 326.5 325.3 325.3 324.7 324.6 325.1 324.4 323.2 322.4
2^{5} 3^{2} 4^{1} 5^{3} 5^{3} 5^{9} 6^{0} 5^{5} 6^{2} 7^{4} 8^{2}
45 33 30 22 12 15 17 21 30 45

327.95 327.53 326.13
2^{60} 3^{02} 4^{42}
30^{2} 40^{6} 32
brk drive

327.7 326.3 325.4 324.3 324.0 323.3 323.1 322.8 323.0 321.6 321.0
2^{2} 4^{3} 5^{2} 6^{3} 6^{6} 7^{3} 7^{5} 7^{8} 7^{6} 9^{0} 9^{6}
45 30 26 21 11 13 16 21 30 45

321.60 321.11
8^{95} 9^{44}
30^{2} 40^{2}
drive

325.5 325.3 324.2 323.2 323.0 322.0 321.8 322.4 322.4 321.2 320.6
5^{1} 5^{3} 6^{4} 7^{4} 7^{6} 8^{6} 8^{8} 8^{2} 8^{2} 9^{4} 10^{0}
40 30 24 22 13 16 18 25 30 45

320.32 319.67
10^{23} 10^{88}
30 40
wlk

324.6 323.6 322.5 321.8 321.4 320.2 320.7 320.2 319.6
6^{0} 7^{0} 8^{4} 8^{8} 9^{2} 10^{4} 9^{8} 10^{4} 11^{0}
45 30 21 20 15 17 30 45

319.82 319.73
10^{73} 10^{82}
30^{3} 40^{3}
w lk

T 330 55

4+00

3+95 31° Rt & 3° con walk

3+82 30° Rt end con retaining wall

3+78 36° Lt & 3° con walk

3+70

3+53 30° Rt begin con retaining wall

3+35

3+28 30° Rt & 3° con walk

3+00

TP2 12.81 342.11 12.5 329.30

2+82 3° Rt & 2° con walk

Lt = Wly

338.1 337.4 336.9 336.6 335.2 335.3
4.0 4.7 5.2 5.5 6.2 6.8
45 33 30 23 21

Rt = Ely

335.3 335.2 335.7 335.7 335.9
6.8 6.2 6.4 6.4 6.2
10 18 21 30 45

335.53 335.78
6.58 6.33
31° wlk 41°

334.2 333.6 334.82
7.9 8.3 7.29
30.3 30.3 30.3
30 Paving Typ

335.86 335.48
6.25 6.63
46.1 36.4
wlk

334.9 334.1 333.7 332.5 332.6
7.2 8.0 8.4 9.6 9.5
40 30 24 22

332.6 332.4 333.3 333.5 333.6
9.5 9.2 8.8 8.6 8.5
12 17 20 30 45

331.7 331.2 333.68
10.4 10.0 8.23
30.3 30.3 30.3
Paving Typ

331.6 330.8 330.4 330.1
10.5 11.3 11.7 12.0
45 30 20

329.8 329.9 330.7 329.6 329.4
12.3 12.2 11.4 12.5 12.7
13 17 20 30 45

329.24 328.67
12.07 13.14
30.5 40.5
wlk

321.8 328.9 328.7 328.3 327.9 327.2 327.8 327.2 326.7
12.3 13.2 13.4 13.8 14.2 14.9 14.3 14.9 15.4
45 30 24 23 16 20 30 45

342.11

326.70 326.63
3.85 3.92
31 wlk 41

330.55

Lt = Wly ℄ Rt = Ely 24

5+35

TP4 11.57 362.70 0.97 351.13

5+25 30½ Rt end con wall

5+02 30° Rt & 2° con walk

5+00

4+87 32.5 Lt 3° con walk & one step

4+76 30° Rt Begin con wall

4+70

4+64 32.3 Lt & 2° con walk

4+58 30.3 Rt & 25 con walk

TP3 11.68 352.10 1.05 341.06

4+35

357.2 354.1 352.2 351.3 351.4 351.3 351.2 351.7 349.6 349.2 348.9 348.5
5.5 8.6 10.5 11.4 11.3 11.4 11.5 11.0 13.1 13.5 13.8 14.2
45 30 20 18 13 17 22 26 30 31 45

362.70

349.9 345.1 351.08
4.2 6.0 10.2
30 30 30
98 Footing Top

345.19 344.92
6.21 7.18
30 40
walk

351.5 351.2 349.9 349.7 346.9 346.3 346.5 345.5 345.5 345.7 345.9 345.3 344.8
0.6 0.9 2.2 2.4 5.2 5.8 5.6 6.0 6.6 6.4 6.2 6.8 7.3
45 35 30 25 21 20 12 17 22 30 31 45

349.09 348.83 348.14
3.01 3.27 3.96
44 34 32.5
walk Top Step

342.6 342.1 345.77
9.5 10.0 6.33
30 30 20
98 Footing Top

347.4 347.0 344.9 344.2 343.0 342.7 342.4 342.1 342.3 341.6 341.3
4.2 5.1 7.2 7.2 9.1 9.4 9.7 10.0 9.8 10.5 10.8
45 33 30 22 20 10 19 22 30 45

345.01 344.26
7.09 7.84
42.2 32.2
walk

340.06 339.86
12.04 12.24
30.2 40.3
walk

352.10

342.15 340.9 340.2 339.2 338.9 338.4 338.2 338.3 338.5 338.7
+0.4 1.2 1.9 2.9 3.2 3.7 3.9 3.6 3.4 3.4
40 30 22 20 11 17 20 30 45

342.11

Lt = Wly ℄ Rt = Ely

Reduced Rt Batt. 2.25 - .54

30℄ Lt end con retaining wall

6+00 38 Sly Trojan

5+92 19 Rt ℄ Fire Hyd.

5+79 30℄ Lt begin con retaining wall

TP5 9 72 372 05 0 37 362 33

5+70

367.67 365.4 365.3 363.1 361.9 361.9 361.7 363.2 363.5 363.1

4 38 6 7 6 8 9 0 10 2 10 2 10 4 8 2 8 6 9 0

30℄ Top 30℄ 30 21 18 16 18 20 30

Padding

366.06 361.8 361.8

5 89 10 3 10 3

30℄ 30℄ 30℄

Padding

℄ 372 05

362.2 361.2 360.1 358.4 357.5 356.4 357.0 356.7 357.3 357.3 357.2 357.0

0 5 1 5 2 6 4 3 5 2 6 3 5 7 6 0 5 4 5 4 5 5 5 7

45 35 30 26 20 18 14 16 24 30 45

℄ 362 20

"X" Sec Trojan Ave
Altadena to 51st

Lt = Nly ℄ Rt = Sly

0+40 33° Lt garage under const

0+34 33' Lt end wall same shots under const

0+16 33' Lt Begin con wall

0+00 Ely Altadena

0-06 14³ Rt ℄ 5'x5' con water vault

0-12 Ely C6 Line Altadena

0-30 ℄ Altadena

0-48 Wly C6 Line Altadena

0-60 Wly Altadena

0-61 22° Rt ℄ 8" P Pole #5049

365.04 364.7 362.1 361.3 361.9 361.6 361.8 361.7 361.5
7 01 7 4 10 0 10 8 10 2 10 5 10 3 10 4 10 6
33° 30 23 20 10 15 30 45
Floor To be

369.74 366.7 365.4
2 31 5 4 6
33' 33' 33'
Top 9d Footing

369.6 368.1 365.7 365.0 364.5 364.6 363.1
2 5 4 0 6 4 7 1 7 6 7 5 9 0
30 24 18 10 15 30

364.88
7 17
143 for.

371.04 370.51 369.31 368.71 367.1 365.9 364.7 364.3 363.5
1 01 1 54 2 74 3 34 5 0 6 2 7 4 7 8 8 6
50 50 30 30 15 9 20 30
C6 9at C6 9at
end

371.18 369.61 368.1 366.4 364.2 361.9
0 87 2 44 4 0 5 7 7 2 10 2
50 30 15 15 30
AC
edge

371.89 371.77 370.49 369.75 368.4 367.4 365.8 361.9
0 16 0 88 1 56 2 30 3 7 4 7 6 3 10 2
50 50 30 30 15 12 30
C6 9at C6 9at
end

370.7 370.1 369.4 368.8 368.2 367.9 368.8 367.7 365.3
1 4 2 0 2 7 3 3 3 9 4 2 3 3 4 4 6 8
30 24 22 12 8 12 21 30

T 372 05

2+17 $30^{\underline{2}}$ Lt end con block wall

1+85

1+45 $30^{\underline{2}}$ Lt Begin con block wall

1+35 ℄ SMH

1+26 $20^{\underline{5}}$ Rt ℄ 12" P Pole # 25075

1+25 Wly Alley Note plans (51st ± Alley) to North. see paving plans Alley under const

1+05 23° Rt NEly cor old foundation house moved back
Note footing on this end.

TP 2^{01} $360^{\underline{76}}$ $13^{\underline{30}}$ $358^{\underline{75}}$

0+87 $20^{\underline{5}}$ Rt ℄ $3^{\underline{6}}$ con walk

0+80 29° Rt to porch of house

0+75 24° Rt NWly cor old foundation house was in st. but moved back

Lt = Nly ℄ Rt = Sly

359.24 354.7 355.8
$1^{\underline{52}}$ $6^{\underline{1}}$ $5^{\underline{0}}$
$30^{\underline{2}}$ $30^{\underline{2}}$ $30^{\underline{2}}$
Top Footing 3d

355.9 354.9 354.9 354.4 354.3 355.0 353.7 348.8 346.3
$4^{\underline{2}}$ $5^{\underline{9}}$ $5^{\underline{9}}$ $6^{\underline{4}}$ $6^{\underline{5}}$ $5^{\underline{8}}$ $7^{\underline{2}}$ $12^{\underline{0}}$ $14^{\underline{5}}$
30 22 15 6 10 18 30 45

359.59 355.5 357.0 355.9 355.3 354.8 352.8 351.0 347.2
$1^{\underline{17}}$ $5^{\underline{3}}$ $3^{\underline{8}}$ $4^{\underline{9}}$ $5^{\underline{5}}$ $6^{\underline{0}}$ $8^{\underline{0}}$ $9^{\underline{8}}$ $13^{\underline{6}}$
$30^{\underline{2}}$ $30^{\underline{2}}$ 30 15 7 20 30 70 35
Top wall Footing

355.64
$5^{\underline{02}}$
TM

357.7 356.7 356.6 356.3 355.3 355.3 353.1 352.4 350.4 348.9 347.7
$3^{\underline{2}}$ $4^{\underline{2}}$ $4^{\underline{3}}$ $4^{\underline{6}}$ $5^{\underline{6}}$ $5^{\underline{6}}$ $7^{\underline{2}}$ $8^{\underline{4}}$ $10^{\underline{4}}$ $11^{\underline{2}}$ $13^{\underline{1}}$
30 20 15 7 10 25 30 44 64 70

359.00 358.4
$1^{\underline{76}}$ $7^{\underline{4}}$
23° 23°
Top Footing

T $360^{\underline{76}}$
5^{02}

359.35 359.85
$12^{\underline{20}}$ $12^{\underline{20}}$
$20^{\underline{5}}$ walk $29^{\underline{}}$

365.3 361.8 359.4 358.3 359.2 359.1 357.6 357.35 360.1 361.24
$6^{\underline{8}}$ $10^{\underline{3}}$ $12^{\underline{7}}$ $13^{\underline{8}}$ $12^{\underline{9}}$ $13^{\underline{0}}$ $12^{\underline{0}}$ $12^{\underline{20}}$ $12^{\underline{0}}$ $10^{\underline{8}}$
35 30 24 21 15 20 29 24
$24^{\underline{2}}$ Top

T $392^{\underline{05}}$

Lt = Nly ℄ Rt = Sly Relayed Bag 2-26-37 28

TP7 = TP12 plus 20 11.92 348.84 348.82

3+30 Ely 51st

3+26 18.5 Lt & (2) 11" iron pipes outlet (no headwall)

3+18 Ely ℄ Line 51st

3+00 ℄ 51st

2+82 Wly ℄ Line 51st

2+77.9 (33.5 Lt ℄ (2) 11" iron pipe & drain inlet (31° Lt & 49° con headwall set)

2+70.00 Wly 51st

2+59 28.3 Lt end apron walk ⊥ to Line

2+25 28.4 Lt ℄ double garage con floor & apron

51st St paving plans under const. crosses 51st St (Ely)

353.2	351.7	350.5	351.8	352.0	351.8	352.1	350.0	348.8
7.6	9.1	10.3	9.0	8.8	9.0	8.7	10.8	12.0
30	21	17	15		8	10	25	30

350.02 10.74 18.5 Lt

356.26	355.1	353.2	352.0	351.4	351.3	347.0
4.50	5.7	7.6	8.8	9.4	9.3	13.8
38	30	15		7	9	30

CS Ce end Now

355.6	353.5	351.8	350.6	348.4	346.7
5.2	7.3	9.0	10.2	12.4	14.2
30	15		7	20	30

356.40	354.9	353.2	351.5	350.4	349.2	345.9
4.36	5.9	7.6	9.3	10.4	11.6	14.9
38	30	15		7	12	30

CS BC end Now

355.33 5.43 31° for headwall

353.51 7.25 33.5 Le

355.2	354.2	353.3	351.8	350.8	351.4	350.3	348.2
5.6	6.6	7.5	9.0	10.0	9.4	10.5	12.6
30	23	15		6	10	25	30

355.70 5.06 28.3 Lt

356.54	356.00	355.72	354.5	353.7	353.3	353.9	353.3	349.1	347.4
4.22	4.76	5.04	6.3	7.1	7.5	6.9	7.5	11.7	13.4
33.2 Floor	30	28.4 gar	21		6	9	20	30	45

T 360 26

& Profile Alley	Blk 42, Tract	1368	& Alley
Trojan Ave to Elevation		See G306	
Between 51st & Altadena		& L sheet	
Paved with Portland Cone			
11/25/52, WO #			
C. Allen, Dissman, C. Powell			
1+60			380.44
1+55			380.21
1+50			379.96
1+45			379.72
1+40			379.49
1+35			379.24
1+32			379.11
No question of grade This Section			
Nly Line Trojan			
0+00			
Direct Elev Rod used - All elevations are True elev			

℄ Profile Alley Cont

℄ Alley.

2+10	382.95
2+05	382.72
2+00	382.47
1+95	382.20
1+90	381.93
1+85	381.68
1+80	381.43
1+75	381.21
1+70	380.96
1+65	380.70

℄ Profile alley Cont

	℄ Alley
2+60	385.03
2+55	384.87
2+50	384.65
2+45	384.52
2+40	384.33
2+35	384.11
2+30	383.90
2+25	383.67
2+20	383.44
2+15	383.19

& Profile Alley Cont.

	℄ Alley
3+10	386.40
3+05	386.32
3+00	386.23
2+95	386.10
2+90	385.98
2+85	385.85
2+80	385.68
2+75	385.54
2+70	385.38
2+65	385.21

℄ Profile Alley cont

	℄ Alley
3+60	387.00
3+55	386.95
3+50	386.93
3+45	386.88
3+40	386.83
3+35	386.77
3+30	386.69
3+25	386.66
3+20	386.60
3+15	386.49

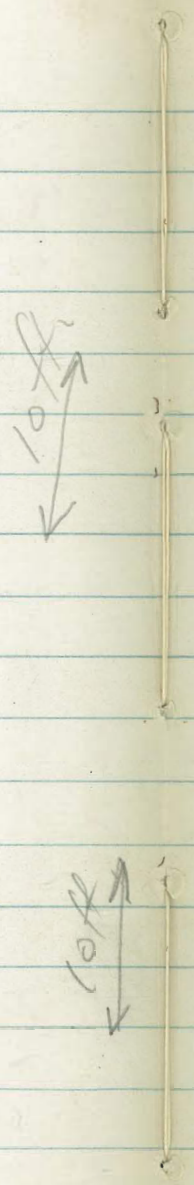
℄ Profile Alley cont

℄
Alley

4+10	387.43	.43
4+05	387.39	
4+00	387.38	
3+95	387.37	
3+90	387.30	
3+85	387.24	
3+80	387.21	
3+75	387.15	
3+70	387.09	
3+65	387.04	

℄ Profile Alley Cont

℄ Alley.



4+60	OK	387.57	7.570
4+55	OK ✓	387.56	7.560
4+50	C 0.040	387.59	7.550
4+45	C 0.040	387.58	7.540
4+40	OK	387.53	7.53
4+35	OK ✓	387.50	7.500
4+30	C 0.020	387.51	7.490
4+25	C 0.020	387.50	7.480
4+20		387.47	7.47
4+15		387.45	7.45

& Profile Alley, Cont

& Alley

	20ft ↓		
5+10	C 0.025	387.84	7.815
5+05	OK	387.81	7.81
5+00	OK	387.78	7.78
4+95	OK	387.73	7.73
4+90	OK	387.70	7.70
4+85	OK	387.67	7.67
4+80	C 0.02	387.68	7.66
4+75	OK	387.65	7.65
4+70	OK	387.61	7.61
4+65	OK	387.59	7.59

℄ Profile Alley Cont

℄ Alley

5+60			
5+55	C 0.010	387.94	7.93
5+50	OK	387.90	7.90
5+45	OK	387.89	7.89
5+40	OK	387.85	7.85
5+35	C 0.015	387.86	7.845
5+30	C 0.030	387.87	7.840
5+25	C 0.055	387.89	7.835
5+20	C 0.050	387.88	7.830
5+15	C 0.035	387.86	7.825
	C 0.040	387.86	7.820

℄ Profile Alley cont

℄ Alley

6+10	OK.	388.02	8.020
6+05	C 0.010	388.02	8.010
6+03.5 = ℄ Sewer Manhole		388.00 = Rim Manhole	
6+00	ok	388.00	8.00
5+95	OK.	387.98	7.980
5+90	~~ok~~	387.96	7.960
5+85	C 0.005	387.96	7.955
5+80	C 0.020	387.97	7.950
5+75	C 0.025	387.97	7.945
5+70	C 0.050	387.99	7.940
5+65	C 0.055	387.99	7.935

℄ Profile Alley Cont

℄ Alley

6+60		387.48
6+55		387.54
6+50		387.64
6+45		387.73
6+40		387.78
6+35		387.82
6+30		387.90
6+25		387.94
6+20	OK	387.99
6+15	OK	388.03

& Profile Alley Cont

℄ Alley.

6+92.2 ± = Sky Line EL Cut on -	386.93
6+90	386.98
6+85	387.04
6+80	387.11
6+75	387.20
6+70	387.29
6+65	387.40

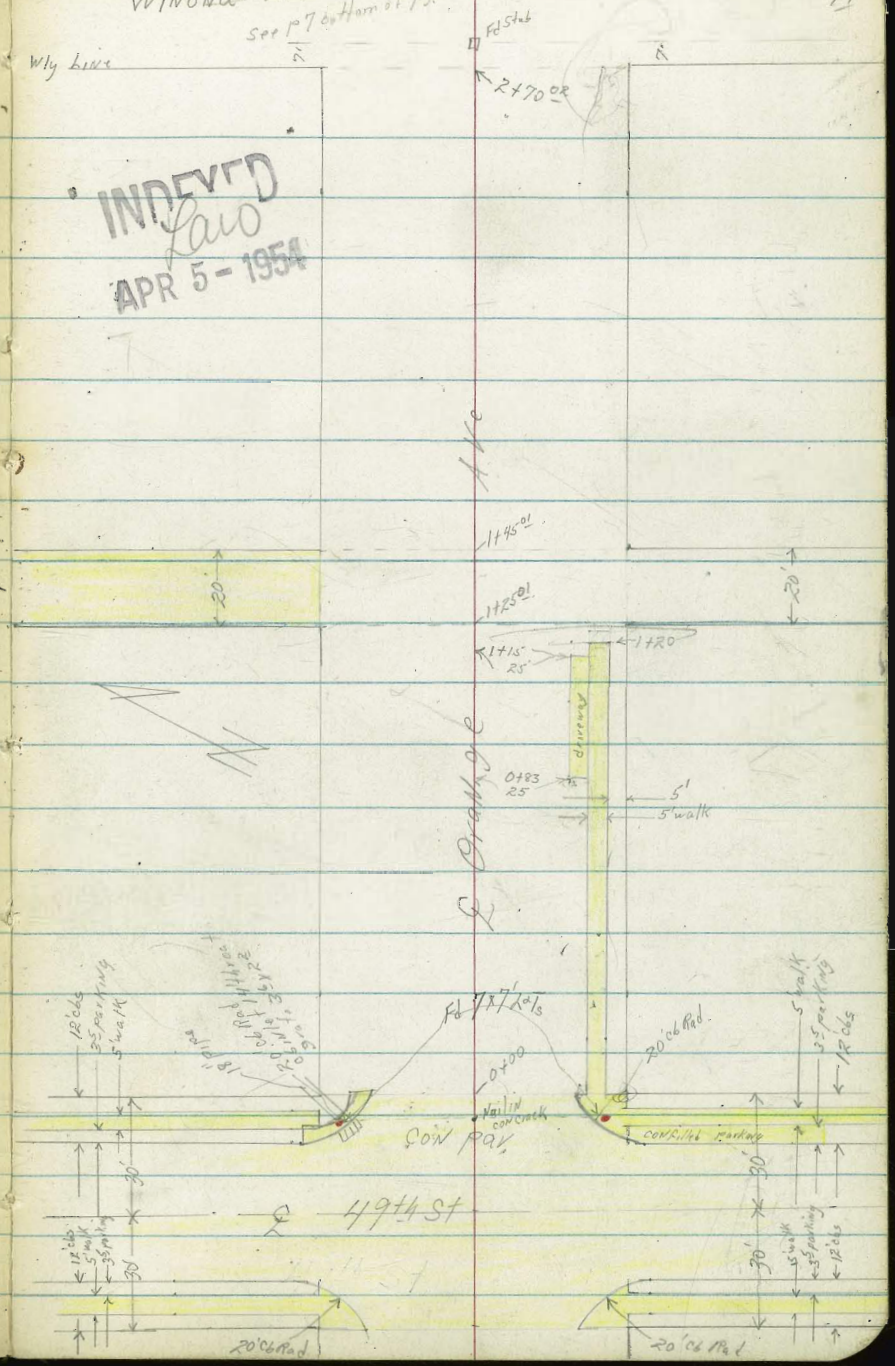
D. Smith
J. Rover
R. Taylor
B. Fish

X Sec Orange Ave

49th St to Winona Ave

W.O.# 32002
4/2/54

Winona Ave



0+45 26.2 Lt. E 14" tel Pole # 183

0+06 26.2 Rt E Fire Hyd

0+00 Ely 49th St edge conc pav end c&g

Mid Pt Returns Ely 49th

0-12 Ely C&G Line 49th St

0-30 E 49th St

0-48 Wly C&G Line 49th

0-60 Wly 49th St edge Concr pav & c&g end.

BM 5.16 338.11 332.25 St. Ct. 49th & Grand Ave

Lt = Wly

331.1 331.0 329.9 330.0 329.5 330.2

7.0 7.1 8.2 8.1 8.6 7.9

60 40 38 27 22 12.5

Rt = Sly

330.5 330.5 330.4 331.1 331.58 331.9

7.6 7.6 7.7 7.0 6.43 6.2

12.5 24 25 30 wlk 40

330.9 331.04 331.00 330.01 331.16 331.57 331.74 331.64 332.28 332.40 332.74

7.2 7.07 7.11 8.10 6.85 6.54 6.37 6.45 5.83 5.71 5.37

40 30 wlk 26.5 C&G end 26.4 out 12.5 12.5 26.6 out 26.2 C&G end 30 wlk 40

331.14 330.15 325.45 331.84 332.45

6.97 7.96 12.65 6.27 5.66

C&G Grate Ie out C&G

331.77 331.48 331.08 330.57 330.47 330.60 331.98 331.26 331.51 331.84 332.16 332.30 332.91 334.84 337.29

6.34 6.67 7.03 7.60 7.64 7.51 6.63 6.35 6.20 6.27 6.16 5.81 5.40 1.27

95 C&G 95 out 45 C&G Sc. 45 out 40 25 12.5 12.5 25 40 45 out 45 C&G Sc. 95 out 95 C&G

332.12 331.18 331.28 331.42 331.84 332.06 332.19 332.14 332.89 333.15 332.36

5.99 6.23 6.63 6.69 6.27 6.05 5.22 5.27 5.22 4.96 0.55

95 45 40 25 12.5 12.5 12.5 25 40 45 95

332.19 331.51 331.74 331.16 331.22 331.62 332.13 332.45 332.93 332.37 332.82 333.07 333.64 332.38 338.02

5.82 6.60 6.37 6.85 6.89 6.49 5.88 5.66 5.68 5.24 5.29 5.04 4.47 0.23 0.29

95 C&G 95 out 45 C&G Sc. 45 out 40 25 12.5 12.5 25 40 45 out 45 C&G Sc. 95 out 95 C&G

331.82 331.98 331.88 331.51 332.41 332.74 332.76 332.68 333.24 333.26 333.94

6.27 6.13 6.23 6.60 5.20 5.37 5.35 5.43 4.87 4.85 4.67

40 30 12.5 C&G end 26.2 out 12.5 12.5 26.3 out 26.3 C&G end 30 40

338.11

1+85

1+46 26ft Lt E 10" tel. Pole # 184

1+45 Ely Alley

1+35 E Alley 6.5 Rt E SMH

1+25 Wly Alley

1+22 26.8 Rt E 12" Pole # P4925

1+20 30° Rt end Con walk

1+15 25° Rt end con driveway

0+85

0+83 25° Rt Begin con driveway

Lt - Nly

330.7 330.3 329.4 328.6 328.1

7.4 7.8 8.7 9.5 9.4

30 40 26 22 12.5

328.6 328.3

9.5 9.8 12.5

Rt - Sly

327.8 328.6 328.6 328.3 328.3

10.3 9.5 9.5 9.8 9.8

22 25 30 40 48

332.40 329.99 329.3 329.1

5.71 8.12 8.8 9.0

90 40 edge Con Alley 25 12.5

325.1 328.5 328.4 328.9 329.3 335.5

9.0 9.2 9.7 9.2 8.8 2.6

12.5 21 30 40 90

332.13 329.66 329.4 329.1

5.98 8.45 8.7 9.0

90 40 edge Con Alley 25 12.5

329.2 329.18 329.0 328.6 329.1 329.6

8.9 8.93 9.1 9.5 9.0 8.5

6.5 rim 12.5 23 30 40

332.39 330.01 329.7 329.3 329.4

5.72 8.10 8.4 8.8 8.7

90 40 edge Alley Con 30 20 12.5

329.3 329.2 328.7 329.8 330.1 336.4

8.8 8.9 9.4 8.3 8.0 1.7

12.5 22 26 40 90

330.27 330.34

7.84 7.77

30 Wlk end 33 Wlk

329.77 330.36

8.34 7.75

25.5 Lip 30.5 Wlk

331.2 330.4 330.3 329.9 329.3 329.7 329.9 329.8 330.09 330.72 330.47

6.9 7.7 7.8 8.2 8.8 8.4 8.2 8.3 8.02 7.39 7.64

60 40 34 28 21 12.5 12.5 25 Lip 30 40

330.10 330.74

8.01 7.37

25 Lip 30 Wlk

338.11

Lt = N'ly ℄ Rt = S'ly

BM TR, p 8 9.36 328.75 Spike in pole # 4949 SW cor Orange & Winona

see pg 8 for rest of Orange Ave sections

2+70.02 w'ly ~~N'ly~~ Winona Ave

329.9	329.4	328.2	328.3	328.0	327.5	326.43	327.59	327.5	326.8	327.2
8.2	8.7	9.2	9.8	10.1	10.6	11.68	10.52	10.6	11.3	10.2
40	31	21	12.5		12.3	25.1 sur	25.2 ob end	36	40	50

2+66 27.2 Rt 218.5 Pole # 4949

2+63 26.3 Lt ℄ 12" tel Pole # 185

2+28 35.5 Lt ℄ 3' con walk

331.40	330.00	329.80
6.71	8.11	8.41
50	40	35.2

2+25

331.4	330.1	329.3	328.8 w/k	328.3	328.4	328.2	327.9	327.2	328.4	328.0	326.1	322.7
6.71	8.0	8.2	9.3	9.8	9.7	9.9	10.2	10.2	9.7	10.4	12.0	15.4
50	40	30	23	21	12.5		12.5	22	26	36	40	45

1+99 40.0 Lt ℄ 7' con drive

330.89	329.72
7.22	8.39
50	40
	drive

T 3384

X-Sec Upshur ST
To Shafter ST - &
Shafter ST Upshur ST
W.O.# 32 392
Aug 27, 1954

SCOTT ST
X-Sec
to Cañon

35' 35'
10' Cbs
5' Walk
4" Pking
Upshur ST

7'X7' Allen Nunnicom Talbot

4"X4" Mon.

Soil Sample

SCOTT ST

See Page 46

25' 25'

C. Allen
D. Sisson
C. Powell
C. Hatch

Ref. TP Sheet # 817
Dwg # 3484-B.

CAÑON ST

Production of Straight Line from Nly.

75' Rad

80 & 120 Curb Radii point

2+44.73 BS.

10'

6'

25 25

2+24

73

Talbot St.

Set Ld & Disc 8-19-55 X7R

Base Line

Variable Width

35'

See Dwg 3484-B

I.E. = -9.02

Stucco Bldg.
office High Seas Tuna Packing Co.
Stairway

10' Rad

7'

Gone

7'X7' Allen

Set Ld & Disc 8-19-55 X3R

SHAFTER

543'

N 51° 20' 15" E

Soil Sample

Set Ld & Disc 8-19-55 X7R

10' Rad

10" Lmtd

I.E. = -8.84

I.E. = -9.86

35 35

Navy line = ?

Notes in red added 10/25/54 MM

N 30° E

209'

ST

Existing 18" Sewer

I.E. = -10.14

Addition

B.M. = Lat S.wly Cañon + Shafter - Page 60 - EL. = 2.52

X-See Scott St - Talbot to Cañon St.

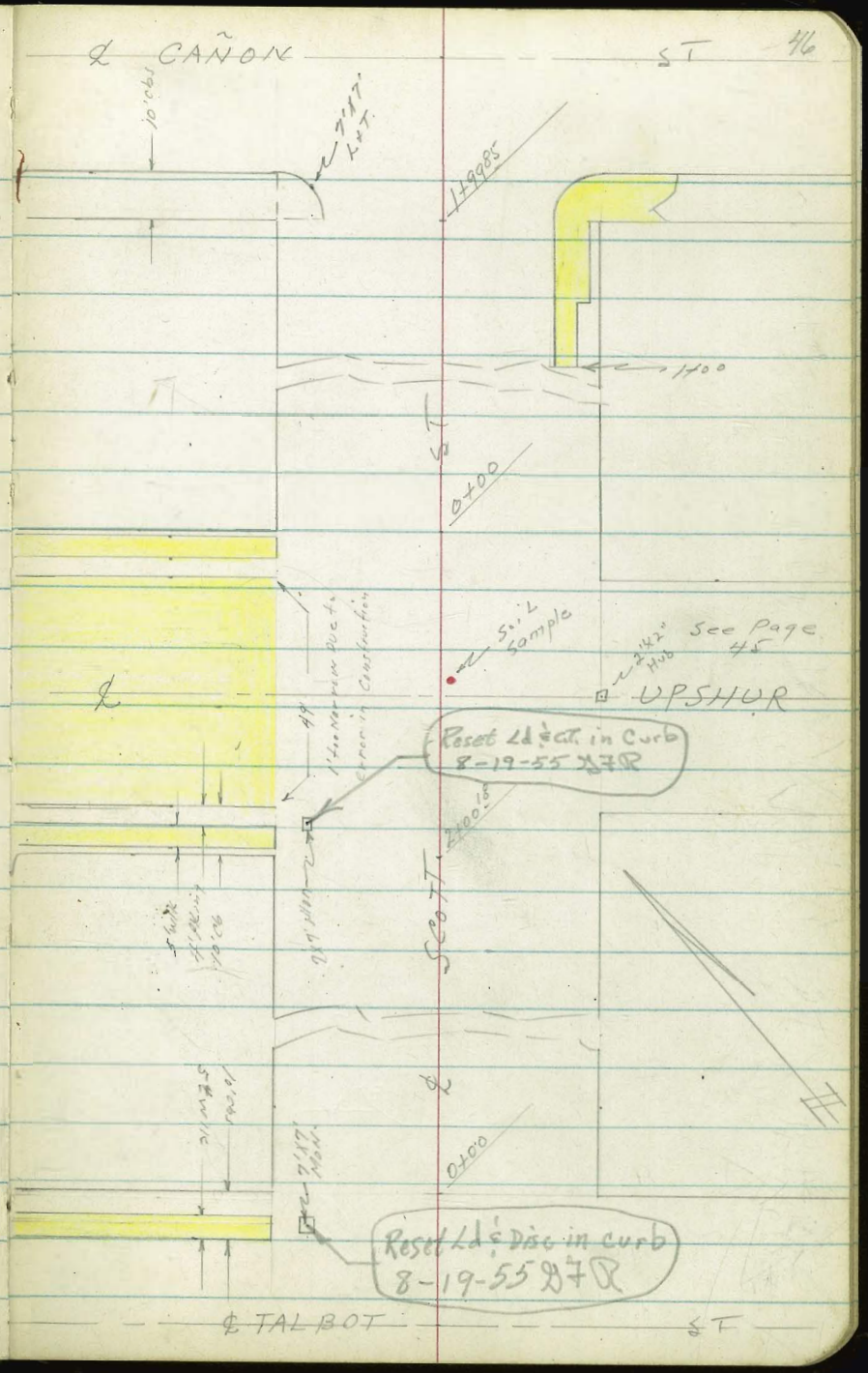
WO # 32392-

C. Allen
D. S. Sisson
C. Hatch
C. Powell

Aug 27, 1954

Ref- TP Sheet 817-

For Levels See page 47-



X-See Scott St - Talbot to Cañon
See sketch page #6

P.P. = Power Pole

0+00 = NELy Line Talbot St.

0-05 - 31° Lt = ℄ 12" P.P. #1070

false end 5.4' Conc walk
35° Lt = Ely end curb Talbot St
Curb to Left only.

0-10 = NELy Curb Line Talbot St.

on Talbot St

0-22 = NELy edge Very rough A.C. pave

Talbot paved with Rough Ac

0-35 = ℄ Talbot St.

TP.	1.12	14.11	8.49	12.99
B.M	1.93	21.48		19.55

Lt ℄ Rt
Scott

INDEXED
AUG 7

12.9 12.5 11.3 10.6 9.2 8.6 8.3 7.9 6.9 8.9 7.9
1 1.6 2.2 2.0 3.5 4.9 5.3 5.8 6.2 7.2 5.2 6.2
88 50 35 25 22 20 25 35 4 3 50 100
pint brain to Ely

12.67 11.9
1.4.4 2.2
100 100
Top Curb 90T

10.6 10.9 11.5 10.7 9.4 8.9 8.3 8.0 7.7 6.1
3.5.0 3.3 2.6 3.4 4.7 5.2 5.8 6.1 6.7 8.0
35° 35° 32 22 20 25 35 50 100
Top Curb 90T

10.5 10.2 9.0 8.1 7.7
3.6 3.9 5.1 6.0 6.4
50 35 35 50

14.1 11.0 10.4 10.3 9.9 9.5 9.2 8.9 8.6 8.2 5.37
0.0 3.1 3.5 3.8 4.2 4.6 4.9 5.2 5.5 5.9 8.74
150 50 35 25 12.5 12.5 25 35 50 150

14.11 π

Nail in pole Surly Cor Upshur & Scott

SW Lt C.T. Rosecrans & Upshur

X-Sec | Scott cont.

LT	℄ Scott ST	RT
1+25	11.3 11.2 10.5 10.5 10.3 11.0 10.6 2 8 2 7 3 6 3 6 3 8 3 1 3 5 35 22 20 18 20 35	
1+03 - 0 4 LT = ℄ Sewer manhole	7.10 10.49 6 93 3 62 0 4 0 4 I.E. Sewer Rim	
1+00 - 35 1 LT = begin picket fence	11.6 11.3 10.7 10.3 10.3 9.6 10.4 10.4 10.4 2 5 2 8 3 4 3 8 3 8 4 5 3 7 3 7 3 7 50 35 25 20 17 20 35 50	
0+75	11.3 10.4 9.8 9.8 9.3 10.1 10.1 2 8 3 7 4 3 4 3 4 8 4 0 4 0 35 20 18 15 17 35	
0+80 - 35 2 LT = end 4' high board fence		
0+50	11.4 10.7 9.5 9.6 8.9 9.9 9.7 9.6 2 7 3 4 4 6 4 5 5 2 4 2 4 4 4 5 35 20 18 15 17 35 50	
0+25 - 35 2 LT = begin 4' high board fence	11.4 10.4 9.4 9.0 8.5 9.7 9.3 2 7 3 7 4 7 5 1 5 6 4 4 4 8 35 20 18 15 17 35	

X-Sec Scott Cont

37° RT = ℄ 10" pole - # 5112734 Upshur ST

2+10 18 } 35° LT = begin curb Swly of Swly Line Upshur to Rt. Upshur paved with portland concrete

2+06 - 35° LT = Nly of conc walk

2+04 - 31° LT = ℄ 12" power pole P.1098

2+01 - 35° LT = Sly of conc walk - Upshur ST

Note - upshur ST to Nwly is 1' too Narrow between curbs due to error in Construction.

~~34° LT = Sly 6" conc block wall~~

2+00 18 = Swly Upshur to Left

LT ℄ Scott ST RT

	12.51	11.91	11.17	10.56	11.4		11.8	11.4	12.1	
1 60	2 20	2 94	3 55	2 7	2	3	2 7	2 0		See X-Sec Upshur ST
85 Top Cb	85 90T Conc	35° Top Cb	35° Conc 90T	15			20	22	35	

11.20

2 83

35° Walk

11.31

2 80

35° Walk

35° Sly of Walk

	12.72	11.4	11.8	12.0	10.8		11.7	11.3	10.8	11.4	10.7
1 39	2 7	2 3	2 1	3 3	2	4	2 8	2 3	2 7	3 4	
34 Top Wall	34° Foot	34° 90T Wall	22	20			20	22	35	50	

	12.1	11.5	10.4		11.2	10.9	11.5	11.1
	2 0	2 6	3 7	2 9	3 2	2 6	3 0	
	35	22	20		20	22	35	

	12.1	11.8	11.4	10.5		10.7	10.6	11.3	10.7	10.5
	2 0	2 3	2 7	3 6	3 4	3 5	2 8	3 4	3 6	
	50	35	22	20		20	22	35	50	

1+75-

1+50

1+45 - 35 - LT = end picket fence

14"

X-Sec Scott St

Nail in pole SW/ly cor upshur Scott

TP2 3.69 16.68 1.12 12.99

} = NELy Line Upshur ST

2+70 18 back = 0+00 ahead

2+69 18 = 35° LT = NLy Conc walk upshur ST

2+64 18 35° LT = SLy Conc walk upshur

} 35° LT = SLy end Curb upshur
} = NELy Line upshur to Right
2+60 18 } = NELy Curb Line upshur to Left

} 35° LT = SLy edge 50' Conc strip Portland
2+35 18 } = ℄ upshur ST

LT ℄ Scott ST 16.68 RT 50

10.3 12.2 12.0 12.1 12.0 12.4 12.1 11.8
1 8 1 9 2 1 2 0 2 1 1 7 2 0 2 3
50 35 19 23 25 35 50

11.81
2 30
35° WIK

11.75
2 36
35° WIK

13.11 12.41 11.68 11.08 11.0 12.1 12.1 12.4 11.7
1 00 1 70 2 43 3 03 2 32 2 0 2 0 1 7 2 4
85° Top Conc 35° Conc 35° 15 22 25 35
No Curb Gut Slv

12.66 11.08 11.8 12.0 11.7 12.1 11.6
1 45 3 03 2 33 2 1 2 4 2 0 2 5
85 Conc 35° Slv Conc 15 20 22 35

14 11 ℄

X-Sec Scott cont

5.6 face curb to back walk

1+00 - 25° RT = begin curb + contiguous walk

0+98 - 34.8 LT = ℄ 3' conc walk

0+85 - 34.8 LT = ℄ 7' Conc Apron to porch

0+75

0+71 - 30° LT = ℄ deadman.

0+50

0+25

LT | 1 ℄ Scott St | RT | 51

13.8 2.9 50 | 13.5 3.2 35 | 12.2 4.5 20 | 11.6 5.1 | 11.3 5.4 25° out Dirt | 11.43 5.25 25° T & G | 11.57 5.11 30° Back walk | 11.8 4.9 35

13.91 2.77 44.8 Wlk | 13.70 2.98 34.8 Wlk

13.53 3.15 37° steps at Porch | 13.50 3.18 34.8 drive

13.4 3.3 35 | 12.3 4.4 20 | 11.8 4.9 | 11.5 5.2 23 | 12.2 4.5 25 | 12.5 4.2 35 | 11.3 5.4 50

14.1 2.6 50 | 13.3 3.4 35 | 12.3 4.4 20 | 11.9 4.8 | 11.6 5.1 23 | 12.7 4.0 25 | 12.2 4.5 35 | 11.2 5.5 50

13.4 3.3 50 | 13.2 3.5 35 | 12.2 4.5 20 | 12.0 4.7 | 11.8 4.9 22 | 12.6 4.1 25 | 12.5 4.2 35 | 11.1 5.6 50

16.68 T.

X-Sec SCOTT ST CONT

25° LT & RT = B.C. Curb Rets.

Swly edge concrete paving Cañon

1+99.85 = Swly Line Cañon ST

No walk on Left

1+75

become 8.3 wide Contigous cb & walk

1+60 - 5.6 wide Contigious walk on RT

1+50

drive - Cubic Corp.

1+40 - 25° RT - ℄ 13' Wide Commercial

1+25

1+01 - 29.5 LT ℄ 12" P.P. # 1116

SCOTT ST

LT						RT			
11.5	11.10	10.59	10.60	10.59	10.42	10.10	10.53		
8.2	5.50	6.09	6.08	6.09	6.26	6.58	6.15		
35 No walk this side	25° Top cb	25° gut Con	12.5 Conc		12.5 Conc	25° gut Conc.	25° Top cb		
12.1	11.2			10.08	10.1	10.76	10.96	11.0	
4.6	5.5	5		5.9	6.6	5.92	5.22	5.7	
35	20				25° Dirt gut	25° Top cb	33.3 Bk Wlk	35	
12.7	12.9	11.7		11.1	10.4	10.99	11.16	11.2	
4°	4.3	5°		5.6	6.3	5.69	5.52	5.5	
50	35	20			25° Dirt gut	25° Top cb	30.6 Bk Walk	35	
					10.45	11.27			
					6.23	5.41			
					25° Lip Drive	35° Brk in Drive			
12.8	12.1			11.4	11.0	11.24	11.36	11.3	
3.9	4.6	5		5.3	5.7	5.44	5.32	5.4	
35	20				25° gut dirt	25° Top cb	30.6 Bk Walk	35	

16 68/72 T

X-Sec Scott Cont

LT — ℄ Scott — RT

53

See page 54 for X-Sec Upshur St

TP4			1.83	19.55
TP3	8.39	21.38	3.69	12.99

Starting BM-
TP, Page 47

Conc Topped with A.C.

2+37 85 = ℄ Cañon St

11.20 10.07 9.84 9.63 9.33 9.16 7.93

5 48 (85) 6 61 (35) 6 84 (25) 7 05 7 35 (25) 7 52 (35) 8 75 (85)

2+09 85 = Swly Curb line Cañon St.

12.47 11.56 11.24 10.30 10.17 9.82 9.72 9.62 10.53 8.41 9.15

4 21 (85 Top Cb) 5 12 (85 Out) 5 44 (35 Top Cb Bc) 6 38 (35 Out Bc) 6 56 (25) 6 86 (Conc) 6 96 (25) 7 06 (35 Out Conc Bc) 6 15 (35 Top Cb Bc) 8 27 (85 Out AC) 7 53 (85 Top Cb)

16 68 ℄

X-sec Upshur ST - Scott to Cañon — LT — ℄ Upshur — RT — 54

See page 45.

				8.6		8.5	8.3		8.4	8.3
1+00				6 9/50		7 0/25	7 2/		7 1/25	7 2/50
					9.1		8.9		8.9	
0+75					6 4/25		6 6/		6 6/25	
				10.0		9.8	9.8		9.4	9.7
0+50				5 5/50		5 7/25	5 7/		6 1/25	5 8/50
					10.9		10.6		10.5	
0+25 - 27' RT = ℄ dead man.					4 6/25		4 9/		5 0/25	
0+01 - 27' RT ℄ 10" p.p. # 511273-H.										
For intersection See X-sec Scott St				12.1		11.8	11.7		11.8	11.1
0+00 = SEly Line Scott St				3 4/50		3 7/25	3 8/		3 7/25	4 4/50
							18 49 T / 2			
BM 2.50	15.49	12.99	TP, page 47 - Spike in pole 3 ely. cor Upshur & Scott							

X-sec Upshur ST Cont

Base Line continues tangent

2+24.68 = Property B.C. on Left - 75' Radius

	LT						RT				
							Upshur ST				
			5.0		5.1			5.5		5.8	
			10.5		10.4			10.0		9.7	
			50		25 P.L. BC.					25 P.L.	
			5.9		6.0			6.2		6.4	6.5
2+00			9.6		9.5			9.3		9.1	9.0
			50		25 P.L.					25 P.L.	50
				6.5				6.6		6.9	
1+75				9.0				8.9		8.6	
				25 P.L.						25 P.L.	
			7.1		7.4			7.2		7.2	7.2
1+50			8.4		8.1			8.3		8.3	8.3
			50		25 P.L.					25 P.L.	50
				7.8				7.8		7.9	
1+25				7.7				7.7		7.6	
				25 P.L.						25 P.L.	

18+49 T

X-Sec upshur 2T

TP1	3.75	6.71	12.53	2.96

3 + 50

det 33° 30.49' · ch = 24.92

3+25

det = 25° 33.03' · ch = 24.92

3+00

det = 17° 35.57' · chord = 24.92

2+75

det = 9° 38.11' - chord = 30.12'

Base R = 90' · det per foot = 19.0986'

B.C. 90' Radius -
See sketch page 45

X-Sec base line from here on is Run ON 90' Radius - concentric with 125' Radius

2+44.73 = Property B.C. on Right - 125' Radius

Sections taken Radially

LT

Base Line
35' inside
125' Prop
Rad.

6.71 T

RT

3.1	3.1	2.7	2.9	2.9
11.8	12.4	12.8	13.1	13.1
50	25		35 P.L.	50
3.8	3.3	2.10	2.7	2.8
11.7	12.2	12.7	12.8	12.7
50	25		35 P.L.	50
3.9	3.6	3.2	3.1	2.9
11.6	11.9	12.3	12.4	12.6
50	25		35 P.L.	50
4.0	4.1	3.8	3.8	3.8
11.5	11.4	11.7	11.7	11.7
50	25		35 P.L.	50
4.4	4.7	4.9	4.10	5.3
11.1	10.8	10.6	10.7	10.2
50	25	10.10 Base Line Ahead		25
				10.2
				35
				10.2
				50

15.49 T

X-Sec upshur ST Cont LT Base Line 90° Rad. upshur ST RT ST

upshur Has Now become shatter ST

2.41 2.44 2.43
4+19 - 34° RT = ℄ 25' wide conc walk 43° 42.7 42.8
34° WIK 35° WIK 45° WIK

3.5 3.3 3.1 2.5 2.2 2.71
4+00 - 37.2 RT = NWly conc block Apt 3.2 3.4 3.6 4.2 4.5 4.00
50 .35 P.L. 35 P.L. 37.2 gr 37.2 Floor count

3+96 - 30.6 LT = ℄ 10' p.p. # 1116 - (Anchor pole)

33° RT = ℄ 3' wide conc walk
E.C. 90° Rad on Base Line
75' Rad on Left. +125' Rad. on RT

3.3 3.7 2.8 2.7 2.58 2.53 2.48
3+86.21 - 35° LT + 35° RT = Property E.C. 3.4 3.5 3.9 4.0 41.3 41.8 42.3
50 35 P.L. EC 25 33° walk 35 PL EC on walk 45

det 45° 02' Chord = 11.20

3.5 3.0 2.7 2.6 2.4
3+75 3.2 3.7 4.0 41 43
50 25 35 P.L. 50

det 41° 27.9' - Ch = 24.92

3+69.5 - 29.5 LT = ℄ Deadman -

6 71

X-sec Upshur & Shafter STS
Scott ST to Capron cont

		LT	℄ Shafter ST	RT
4+57 - 36.6	LT = ℄ single gar in office Bldg Conc Apron & Floor	3.91 / 2.80 / 40.5 gar Floor	3.56 / 3.15 / 36.6 Apron	
4+50		3.56 / 3.15 / 36.6 IN gar apron	3.5 / 3.2 / 35 P.L.	3.6 / 3.1 / 2.7 / 4.0 / 3.5 P.L. / 2.2 / 4.5 / 5.0
4+45.5 40.2 LT	office of High Seas Tuna Co. begin 2 story stucco Bldg	3.91 / 2.80 / 40.5 Floor	3.7 / 3.0 / 40.5 gr	
4+34. 36.6 LT = ℄ single gar. Conc floor & Apron		4.58 / 2.13 / 55.0 garage Floor	3.57 / 3.14 / 36.6 Apron Conc	
4+25.		3.7 / 3.0 / 35 P.L.	3.5 / 3.2 / 2.4 / 4.3 / 3.5 P.L.	
		6.71 T		

X-sec Upshur & Shafter cont

24.9 RT = BC to Rad Curb Ret.

25° LT = B.C. to Radius Cb. Ret.
Topped with AC.

Swly edge Conc pav. Cañon ST

5+20.85 = Swly Lime Cañon ST.

5+19. 36.3 LT = office High Seas Tuna Packing and Stucco Bldg.

office bldg.
36.3 LT = Sly Conc Steps to upper floor

40.6 LT = Sly office bldg.

5+00 33° LT = edge Cold Lay Walk

along office bldg.
walk extends all way.

4+75 - 33° LT = edge Cold Lay Walk

4+53. 25.8 RT = ℄ 10" p.p. # 1121.

3.2 2.7 2.57
3.5 4° 4.4
50 35 32.7
P.L. conc walk

2.2 2.4
4.5 4.3
35 50
P.L.

2.49 1.99 2.01
4.22 4.72 4.70
25° 25° 12.5
Top Cb BC Gut BC

1.95 1.78 1.53 2.03
4.76 4.93 5.18 4.68
12.5 24.2 24.9
Gut BC Top Cb BC

3.3 3.3 2.8 2.7 2.4
3.4 3.3 3.9 4° 4.3
35 33° 35° 50
P.L. Cold Lay P.L.
Cold Lay

3.7 3.7 3.5 2.9
3.0 3.0 3.2 3.8
35° 33° 35
P.L. Cold Lay P.L.

6.71

X-sec Upshur + Shafter cont

				(12.99)
TP3			2.70	13.00
5 TP2	13.18	15.70	4.19	2.52

5

3+55 85 = ℄ Cañon

5

35° RT = Cb E.C.

35° LT = Cb. E.C.

5+30 85 = Swly curb line Cañon

5+28 - 35° RT = ℄ Fire Hyd.

LT | ℄ Shafter ST. | RT | 6°

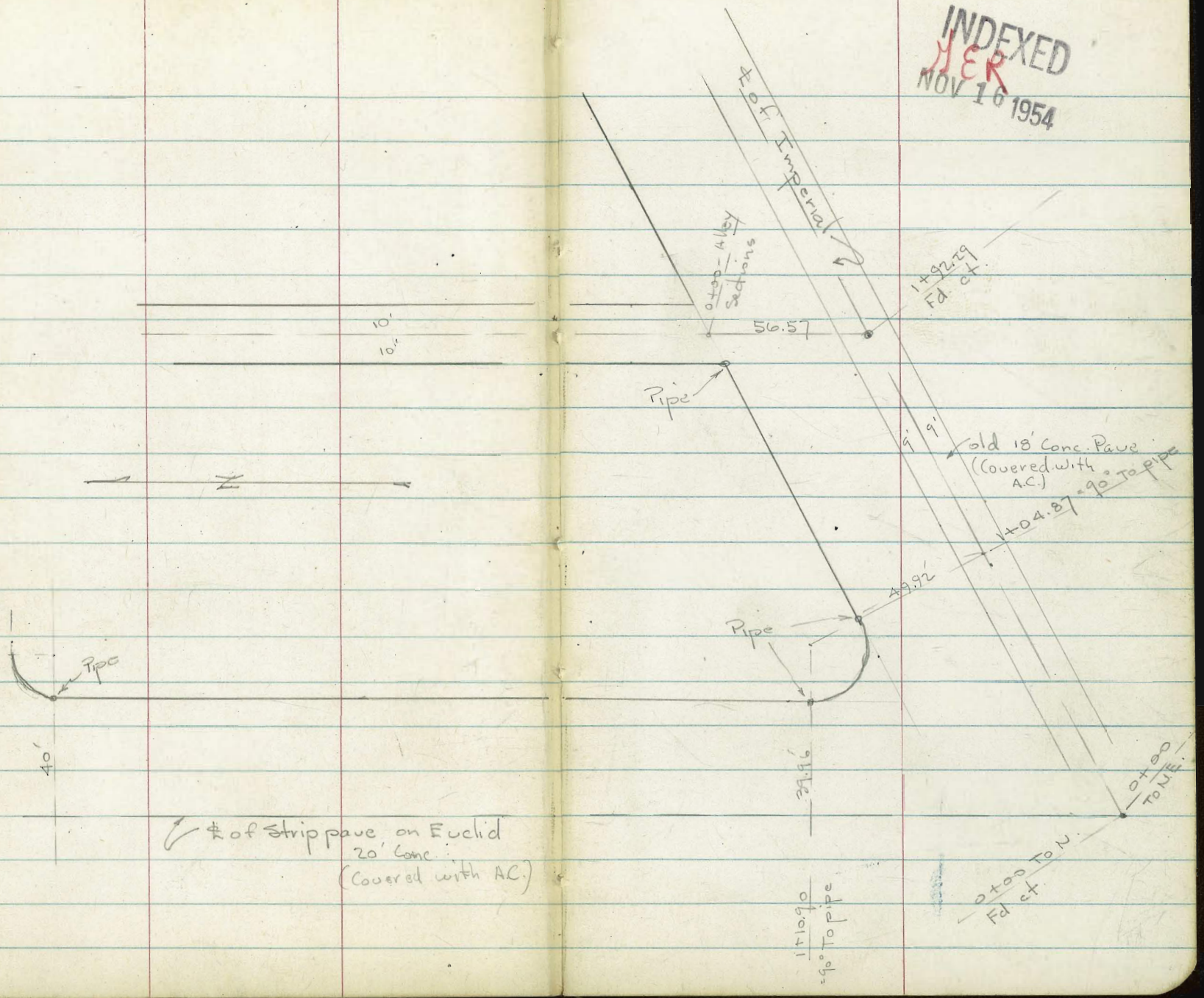
Starting BM - TP1 Page 47.
Painted BM - elevation does not agree.
L+T Swly cor. Shafter + Cañon

3.07	1.38	1.01	0.84	0.04
3 64	5 33	5 70	5 87	6 60
100	25		25	100

4.21	3.36	2.88	2.06	0.93	1.72	0.39	1.25
2 50	3 35	3 83	4 65	5 78	4 99	6 32	5 46
100 Top Cb	100 gut	50 Top Cb	50 gut	50 gut	50 Top Cb	100 gut	100 Top Cb

2.52	1.72	1.45	1.32	1.28	1.16	1.18	1.07	1.93
4 19	4 99	5 26	5 39	5 43	5 55	5 53	5 64	4 78
35° Top Cb EC	35° gut EC	25	125		125	25	35° gut EC	35° Top Cb EC

6 71 ⊼



Elev. around N.E. Cor. of Imperial & Euclid - for Prop. Ser. Sta

W.O. 62398 - 11-15-54 7.0.

		Lt.	℄	Rt.
1+84.87		71.90 14 edge	72.16 9	72.48
1+64.87		71.0 50	72.4 25	72.74 14 edge	72.92 9	73.21
1+44.87		73.40 14 edge	73.70 9	73.98
1+24.87		72.3 50	74.3 22	74.24 14 edge	74.49 9	74.71
1+20 - 20' Lt. = ℄ Tel. pole # 83951-H				
1+04.87 - opp. P.C. Pipe	73.5 50 Prop. P.C.	74.8 25	75.00 13.5 edge	75.23 9	75.44
0+79.87		75.88 13 edge A.C.	76.11 9	76.32
0+54.87		76.92 17.5 edge of A.C.	77.06 9	77.24
0+00 = Ld. + ct. - See Sketch - P. 61			old edge Conc.	79.34

Beg. levels along ℄ of Imperial

+ Euclid

Set B.M. = ⊡ in S.F. Ret. Imperial 178.18

B.M. = B.P. in end of S. cb. - on churchward - at Imperial 184.86

100 fig Not Noted

Actual Elev Shown

			Lt.	℄	Rt.
0+75.77 = opp. pipe = end of Lot.			61.8 10	60.6	61.3 10
0+65.77			63.2 10	62.4	62.7 10
0+45.77			66.0 10	65.0	65.8 10
0+25.77 - 10' Lt. = ℄ Tel. pole # 544812-H			68.5 10	67.9	68.1 10
0+14.7			69.2 10	69.0	69.2 10
San Jacinto check BM. = ct. ℄ Imperial ℄	155.27	155.18 =	for Improvement Plans.		
0+00 N.L Imperial ℄ ℄ of Alley - Sect. along N.L.			70.7 11.28 = Cor.	70.2	70.1 11.28 = Cor.
for Orig. Notes - Using Same Sta. origin.					
Begin Sections along Alley - See B.1696-P.35					
2+59.52			68.4 50	69.3 25	69.48 14 edge 69.80 9 70.10
2+29.52 = opp. Alley Cor			70.0 50	70.4 25	70.47 15 edge 70.81 9 71.05
2+07.52 = opp. Prop. Cor			70.7 50	71.2 25	71.37 14 edge 71.58 9 71.75

		Lt.	℄	Rt.
1+75.75 = Cor. on Lt.		53.4	52.2	51.7
		10		10
1+69.73 = ℄ Sewer M.H.	52.19 = S. Rim			
1+63.71 = Cor. on Rt.		54.2	52.7	52.3
		10		10 = Gr
1+45.77		54.8	53.6	53.3
		10		10
1+25.77		56.0	55.2	55.1
		10		10
1+05.77		57.9	57.0	57.3
		10		10
0+85.77		60.2	59.5	60.0
		10		10

Beg. Levels along Euclid —

	Lt.	℄	Rt.
2+60.9	55.66	55.26 14 edge	54.9 19 — 56.8 40
2+10.9	60.66	60.35 14 edge	59.9 19 gut. — 61.5 40
1+85.9	63.18	62.81 14 edge	
1+60.9	65.70	65.27 15 edge	65.2 25 — 65.6 40
1+35.9	68.19	67.72 15 = edge	
1+10.90 = opp. Prop. P.C.	70.64	70.33 15 edge	70.5 25 — 71.2 40
0+85.90	73.22	72.77 14.5 = edge	
0+60.90	75.80	75.54 16 = edge	
0+50 = opp. aprox P.C. of A.C. edge	76.90	76.52 18 edge A.C.	
0+00 = c.t. on ℄ of Imperial	79.34		

℄ of Pave strip is base Line = ℄ shown.

	Lt.	℄	Rt.
5+07.5 = ℄	40.69	40.68 13 edge	41.9 40 — 42.8 55
4+77.5 = aprox. S.L. of Castana	41.18	41.00 13 edge	42.0 40
4+28 - 40.2' Rt. = ℄ of 8' Conc. Dr.	42.42	42.10 13 edge	43.43 40.2 Dr. — 44.69 61.7= Conc
4+03.4 - 39.7 Rt. = ℄ 3' Conc. walk	43.48	43.13 14 edge	44.14 39.7 walk — 45.40 59. at step
3+56.3 - 40.2' Rt. = ℄ 3' Conc. walk	46.52	46.15 14 edge	46.81 40.2 walk — 46.99 60
3+10.9 = Thru ℄ of 8' Conc. Dr. on Rt.	50.73	50.34 14 edge 49 49	52.09 41.5 Dr. — 52.71 55 Dr.

Roberts
Rorer
Moore
Moralez
6-9-55
W.O. #32530

INDEXED
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JUN 14 1955

X-Section Orange Avenue
Estrella to 49th"

67

Estrella Avenue

Set P.K.
Fd Hub
7'
0+00
7'

Estrella: ℄
60' Street
36' Roadway
20 cb. Rad.
A.C. Paving

Orange: ℄
80 Street
50 Roadway
20' cb Rad.
5' cb. to Walk
5' Walk
20 cb. Rad. at Alley
A.C. Paving

Surface to be 8" cb.

Paving could use some repairs.

Orange Avenue

30

35

49th: ℄
60' Street
36' Roadway
20 cb. Rad.
Conc. Pav.
35' cb to Walk
5' Walk

7'
2+70.05
7'

7'
7'

Set Conc. Nail

Forty-ninth Street

Fd. Ld. & C.T.

Cont'd From Page 67

		Lt No.	℄	Rt So.
0+08	Curb Return comes into EC 0.4' behind straight curb!	346.4 5.0 40	346.1 5.3 26	345.8 5.6 24	345.81 5.55 23 EP	346.1 5.25 15	346.14 5.22	345.76 5.60 15	345.17 6.19 25 Gut	345.81 5.55 23 cb
										St. cb.
0+00	40' Lt begin brick wall East Line of Estrella	347.8 3.6 40 Top	345.9 5.5 40 Foot	346.+ 5.2 40	346.+ 52 28	345.9+ 5.44 24 E.P.	346.76 5.10 15	346.18 5.18	345.88 5.48 15	345.78 6.08 27.3 Gut	346.01 5.35 27.3 cb
		E.P. = Edge of good paving. Some not to hot.									
2/3	Curb Return								345.31 6.05 Gut	346.04 5.32 cb
1/3	Curb Return								345.89 6.08 Gut	346.10 5.26 cb
0-12	East Curb Line Estrella		345.19 6.17 60	346.76 5.10 25			346.7 5.09	346.65 5.71 25	345.16 6.20 45 Gut	345.90 5.46 45 cb	344.89 6.47 60 Gut	345.37 5.99 60 cb
0-30	℄ Estrella		345.78 5.58 60	346.46 4.90 25			346.31 5.05		345.60 5.76 30		344.94 6.42 60	
BM	2.91 351.36 ⊼	SE℄ Church Steps 348.45 Estrella & Orange						351.36 ⊼				

Lt ℄ Rt 69

0+88 40 Lt ℄ 3' conc walk

345.57 345.51
5.84 5.85
50 40
conc conc

0+66.5 39I Lt begin conc. block wall

349.0 345.3 345.8
2.4 6.1 5.6
39I 39I 39I
Top Foot GRD

0+64.5 39I Lt ℄ 35 conc walk

345.13 345.93
6.23 5.43
39I 39I
conc conc

0+62 39I Lt End brick wall

347.8 345.5 345.8
3.6 5.9 5.6
39I 39I 39I
Top Foot GRD

0+51 40 Lt ℄ 12E Conc. Drive

346.40 346.79 345.76 345.06 345.19 345.45 345.69 345.34 344.97 345.56
4.76 5.07 5.6 6.3 6.17 5.91 5.67 6.02 6.44 5.80
54 40 27 23 22 15 15 25 25
conc conc EP Gut CL
Floor

0+35 26E Lt. to Near Edge T. Pole #180¾?

0+24 39I Lt ℄ 3' Conc walk

346.45 346.49
4.91 4.97
49I 39I
conc conc

351.36 T

351.36 T

Contd From Page 69

T.P.	2.41	340.62 ℄	13.15	338.21
1+67	25' Lt to deadman			
1+45	25' Lt to N.E. T. Pole #181			
1+25	West Line Alleys (Rough End of Pave.)			
	↑ Sta. OK			
1+19	40' Lt ℄ to conc drive			
	↑ Sta OK			
1+14	40' Lt End conc block wall			
	↑ Sta. OK			
	↓			
1+22	BC curb Return			
0+90				

351.36 ℄

Lt ℄ ℄ Rt

341.7	342.4	342.0	341.3	341.6	341.9	341.7	341.5	342.2	344.3	346.1
9.7	9.2	9.4	10.1	9.8	9.7	9.7	9.9	9.2	7.1	5.3
50	40	23	20	13		13	22	25	40	50

343.8	343.5	343.0	343.6	343.7	343.0	343.8	343.7	343.8	345.2	344.7
7.6	7.9	8.4	8.10	8.04	7.96	8.08	8.15	7.51	6.2	7.20
40	30	24	9 EP		15	25	28 Cut	28 cb	40 cut	40 cb
									↑ Rad OK	

343.17	342.17
8.19	7.19
50 Conc	40 Conc

347.6	343.8	344.7
38	7.6	7.2
40 Top	40 Foot	40 GRD

343.34	333.97
8.02	7.39
25	25
Cut	cb

345.4	344.9	344.37	344.7	344.7	344.73	344.35	345.07
6.0	6.5	6.99	6.64	6.44	6.73	7.01	6.29
40	28	24 EP	15		15	25 Cut	25 cb

351.36 ℄

Cont'd From Page 70

Lt | Rt

2+82.05 - West Curb Line of 49th St

(Left or North Return in bad shape.)

Mid point of Returns

2+80.05 West Line of 49th Street

2+67 26.6 Rt to N.E. P.P. Pole #4899

2+65 25.8 Lt to N.E. T. Pole #182

T.P. 6.40 340.03 ℄ 6.98 333.64 = 333.63 SW BP 49th & Orange 340.03 ℄

2+35

2+00

340.62 ℄

340.62 ℄

Lt ℄ Rt 72

check 7.08 332.95 = 332.95 SEBP 49th & Orange

3+00.05 ℄ 49th street

340.03 ⊼

331.91 331.17 331.96 331.33 332.05 332.08 332.04 334.35
8.09 7.88 8.74 8.67 7.98 7.92 7.16 5.65
90 46 40 28 24 40 60

340.03 ⊼

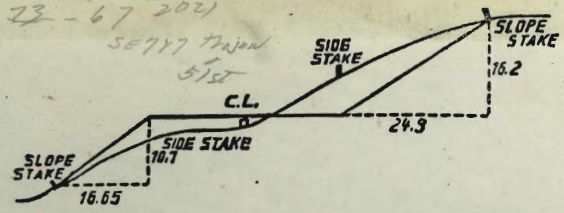
1 18°

535
315
220

49 - Orange
SEBP - 332.95
SWBP - 333.63

63
5/2

348 23 - 67 #FH 3021
SE 7/7 T 19 N R 3 W 5TH



70
27
43

DISTANCES FROM SIDE STAKES FOR CROSS-SECTIONING.

SLOPE 1½ TO 1. ROADWAY OF ANY WIDTH.

	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	
0	0.00	0.15	0.30	0.45	0.60	0.75	0.90	1.05	1.20	1.35	0
1	1.50	1.65	1.80	1.95	2.10	2.25	2.40	2.55	2.70	2.85	1
2	3.00	3.15	3.30	3.45	3.60	3.75	3.90	4.05	4.20	4.35	2
3	4.50	4.65	4.80	4.95	5.10	5.25	5.40	5.55	5.70	5.85	3
4	6.00	6.15	6.30	6.45	6.60	6.75	6.90	7.05	7.20	7.35	4
5	7.50	7.65	7.80	7.95	8.10	8.25	8.40	8.55	8.70	8.85	5
6	9.00	9.15	9.30	9.45	9.60	9.75	9.90	10.05	10.20	10.35	6
7	10.50	10.65	10.80	10.95	11.10	11.25	11.40	11.55	11.70	11.85	7
8	12.00	12.15	12.30	12.45	12.60	12.75	12.90	13.05	13.20	13.35	8
9	13.50	13.65	13.80	13.95	14.10	14.25	14.40	14.55	14.70	14.85	9
10	15.00	15.15	15.30	15.45	15.60	15.75	15.90	16.05	16.20	16.35	10
11	16.50	16.65	16.80	16.95	17.10	17.25	17.40	17.55	17.70	17.85	11
12	18.00	18.15	18.30	18.45	18.60	18.75	18.90	19.05	19.20	19.35	12
13	19.50	19.65	19.80	19.95	20.10	20.25	20.40	20.55	20.70	20.85	13
14	21.00	21.15	21.30	21.45	21.60	21.75	21.90	22.05	22.20	22.35	14
15	22.50	22.65	22.80	22.95	23.10	23.25	23.40	23.55	23.70	23.85	15
16	24.00	24.15	24.30	24.45	24.60	24.75	24.90	25.05	25.20	25.35	16
17	25.50	25.65	25.80	25.95	26.10	26.25	26.40	26.55	26.70	26.85	17
18	27.00	27.15	27.30	27.45	27.60	27.75	27.90	28.05	28.20	28.35	18
19	28.50	28.65	28.80	28.95	29.10	29.25	29.40	29.55	29.70	29.85	19
20	30.00	30.15	30.30	30.45	30.60	30.75	30.90	31.05	31.20	31.35	20
21	31.50	31.65	31.80	31.95	32.10	32.25	32.40	32.55	32.70	32.85	21
22	33.00	33.15	33.30	33.45	33.60	33.75	33.90	34.05	34.20	34.35	22
23	34.50	34.65	34.80	34.95	35.10	35.25	35.40	35.55	35.70	35.85	23
24	36.00	36.15	36.30	36.45	36.60	36.75	36.90	37.05	37.20	37.35	24
25	37.50	37.65	37.80	37.95	38.10	38.25	38.40	38.55	38.70	38.85	25
26	39.00	39.15	39.30	39.45	39.60	39.75	39.90	40.05	40.20	40.35	26
27	40.50	40.65	40.80	40.95	41.10	41.25	41.40	41.55	41.70	41.85	27
28	42.00	42.15	42.30	42.45	42.60	42.75	42.90	43.05	43.20	43.35	28
29	43.50	43.65	43.80	43.95	44.10	44.25	44.40	44.55	44.70	44.85	29
30	45.00	45.15	45.30	45.45	45.60	45.75	45.90	46.05	46.20	46.35	30
31	46.50	46.65	46.80	46.95	47.10	47.25	47.40	47.55	47.70	47.85	31
32	48.00	48.15	48.30	48.45	48.60	48.75	48.90	49.05	49.20	49.35	32
33	49.50	49.65	49.80	49.95	50.10	50.25	50.40	50.55	50.70	50.85	33
34	51.00	51.15	51.30	51.45	51.60	51.75	51.90	52.05	52.20	52.35	34
35	52.50	52.65	52.80	52.95	53.10	53.25	53.40	53.55	53.70	53.85	35
36	54.00	54.15	54.30	54.45	54.60	54.75	54.90	55.05	55.20	55.35	36
37	55.50	55.65	55.80	55.95	56.10	56.25	56.40	56.55	56.70	56.85	37
38	57.00	57.15	57.30	57.45	57.60	57.75	57.90	58.05	58.20	58.35	38
39	58.50	58.65	58.80	58.95	59.10	59.25	59.40	59.55	59.70	59.85	39
40	60.00	60.15	60.30	60.45	60.60	60.75	60.90	61.05	61.20	61.35	40
41	61.50	61.65	61.80	61.95	62.10	62.25	62.40	62.55	62.70	62.85	41
42	63.00	63.15	63.30	63.45	63.60	63.75	63.90	64.05	64.20	64.35	42
43	64.50	64.65	64.80	64.95	65.10	65.25	65.40	65.55	65.70	65.85	43
44	66.00	66.15	66.30	66.45	66.60	66.75	66.90	67.05	67.20	67.35	44
45	67.50	67.65	67.80	67.95	68.10	68.25	68.40	68.55	68.70	68.85	45
46	69.00	69.15	69.30	69.45	69.60	69.75	69.90	70.05	70.20	70.35	46
47	70.50	70.65	70.80	70.95	71.10	71.20	71.40	71.55	71.70	71.85	47
48	72.00	72.15	72.30	72.45	72.60	72.75	72.90	73.05	73.20	73.35	48
49	73.50	73.65	73.80	73.95	74.10	74.25	74.40	74.55	74.70	74.85	49
50	75.00	75.15	75.30	75.45	75.60	75.75	75.90	76.05	76.20	76.35	50

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