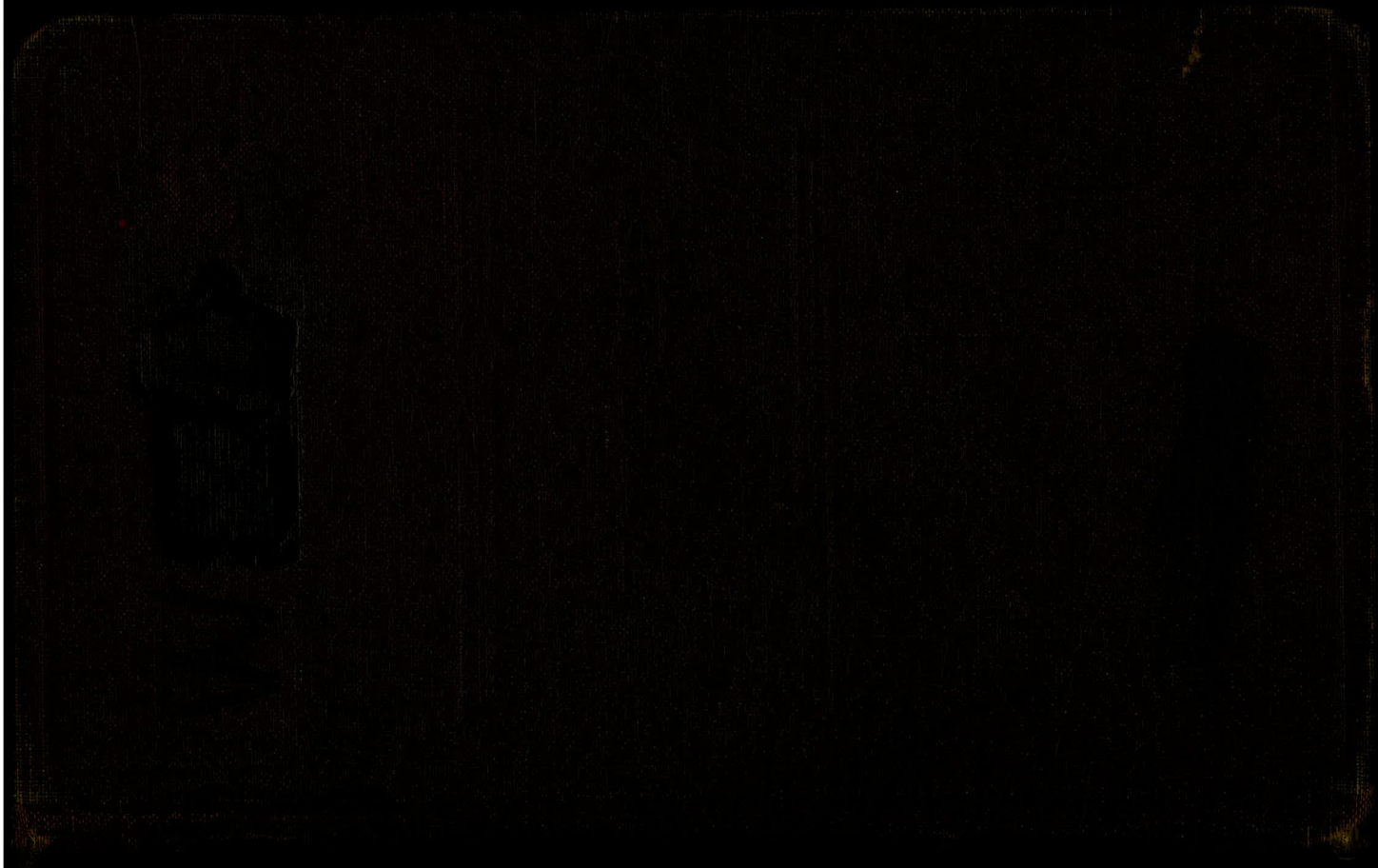

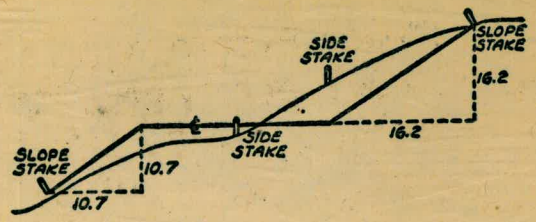

Distances from Side Stakes for Cross-Sectioning

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.

APPROVED
JAN 1965

88

Please Return to
City of San Diego Water Dept.
Room 903 Civic Center

C (15)

719
266
453

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

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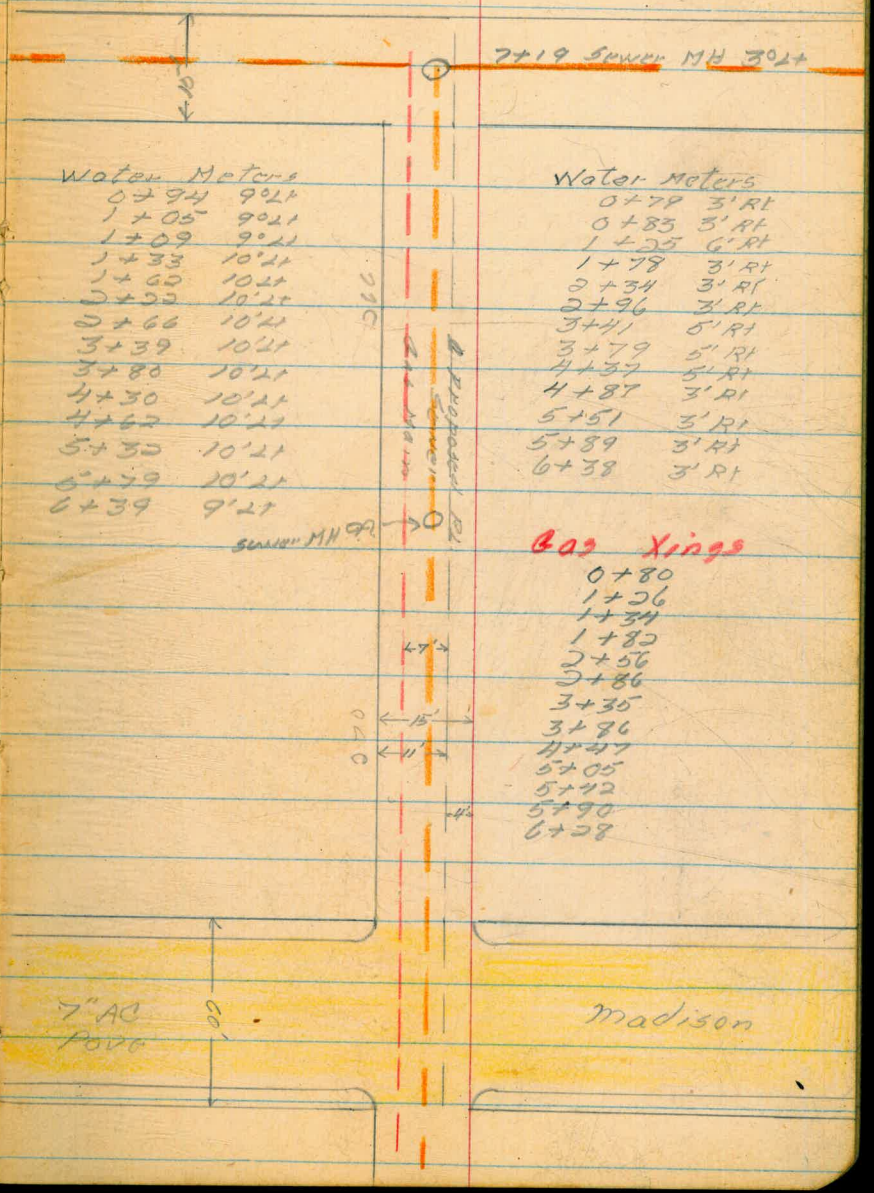
Alley Blk 61
N of Madison E of 33rd
℄ Proposed P℄

11-2-53

7+26.06 ± North prop. Line - Alley

0+00 South prop line Madison



10-30-53

Wiest
Williams
Varonfakis
Kemp

	641	387.42		381.01
0	7.36	391.33	3.45	383.97
0+00			7.74	383.59
+13			7.96	383.37
+47			7.65	383.68
0+50			7.64	383.69
+60			7.25	384.08
1+00			6.8	384.53
+50			6.4	384.93
2+00			6.3	385.03
+50			5.8	385.53
3+00			5.7	385.63
+50			5.0	386.33
4+00			4.7	386.63
+50			4.4	386.93
5+00			3.6	387.73
+50			4.1	387.23
6+00			4.0	387.33
+50			3.9	387.43

5-E BP Madison & Bancroft

South prop line Madison

Gutter Line

Gutter Line

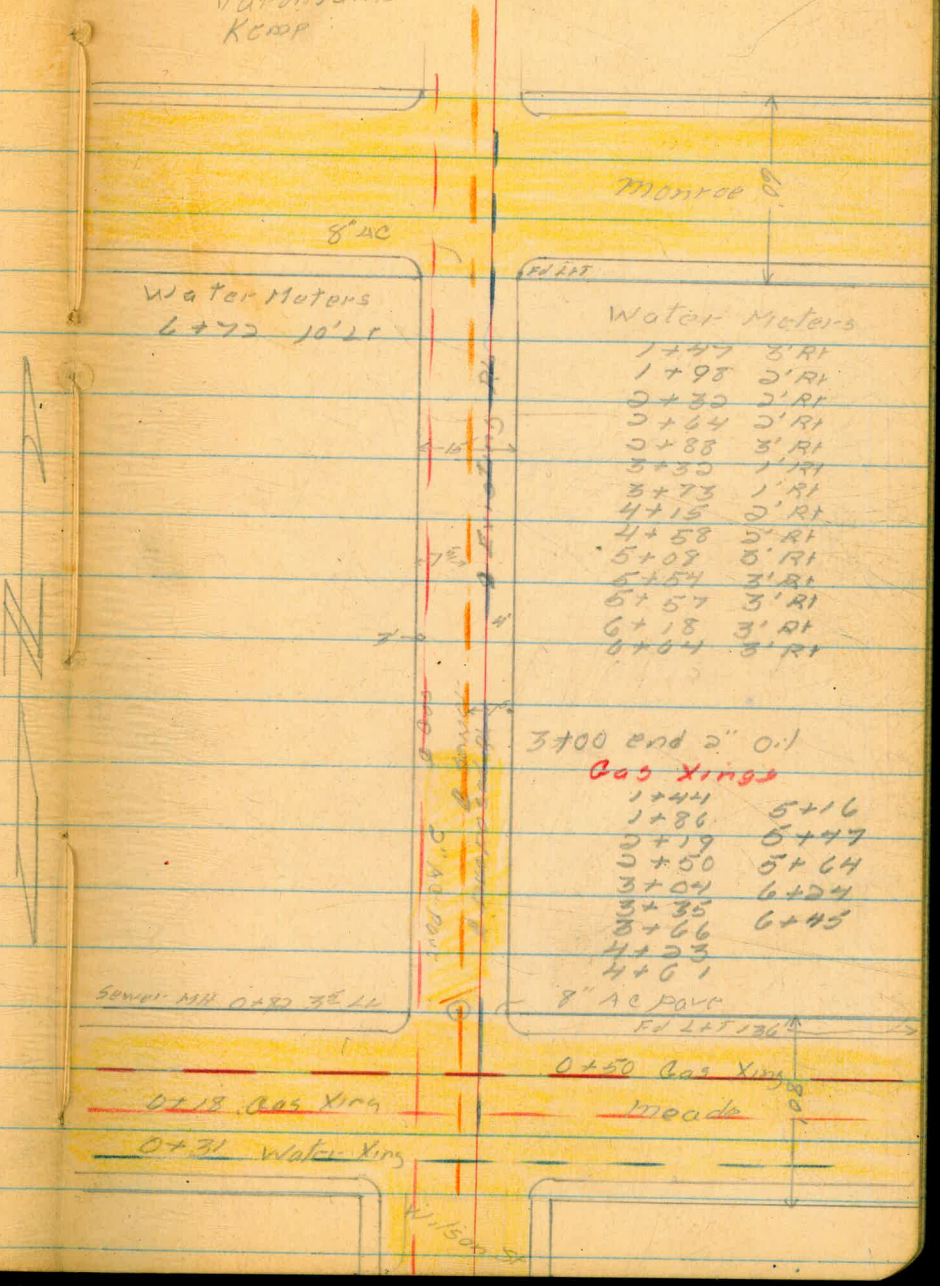
edge Rd

		391.33		
7+00			3.2	388.13
7+19 ok			3.7	387.63 + 4.5 to Flow 383.13 TOP SEWER MH 3 OLD
+26			3.1	388.23
	2.26	390.41	3.18	388.15
	3.34	387.49	6.26	384.15
			6.46	381.03 = 381.01

Alley Blk A E of 35' ± N of Meade

West Williams Vavrontakis Kemp

7+42 ± North prop line Monroe



0+00 South prop line Meade

Profile Alley Blk A

West
Williams
Varon Fokis
Kerr

11-3-53

	5.56	392.37	386.81	BM NW BP 35th + Meade
0+00		4.82	387.9	
+50		4.64	387.7	
+67		5.1	387.3	Center Line north side
+81		4.53	+4.5 To Flow	Top Foot Rail Service NH 3rd Lt
1+00		3.58	388.8	
+50		2.35	390.0	
2+00		1.82	390.5	
+50		1.68	390.7	edge AC pave
3+00		1.26	391.1	
+50		0.7	391.7	
	5.17	397.02	0.53 391.85	
4+00		5.2	391.8	
+50		5.4	391.6	
5+00		5.2	391.8	
+50		4.8	392.2	
6+00		4.2	392.8	
+50		4.5	392.5	
		5.40		

392.02

7+42 5.49 391.5

142 392.53 5.91 391.11

5.65 386.88 = 386.8

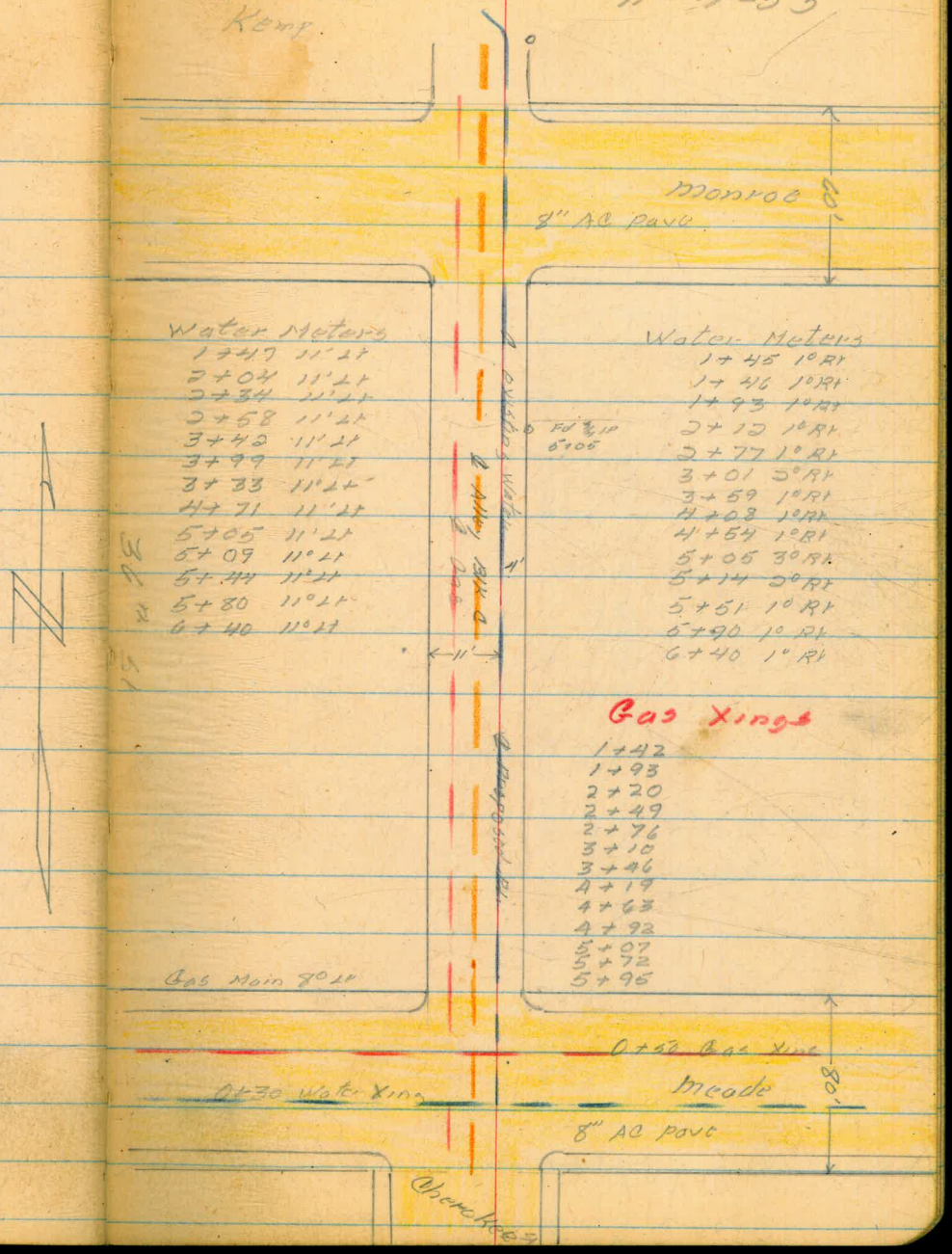
Alley Blk C N of Meade
Alley Blk E E of 36th

0+00 South prop Line Meade

West
Williams
Voronfoks
Kemp

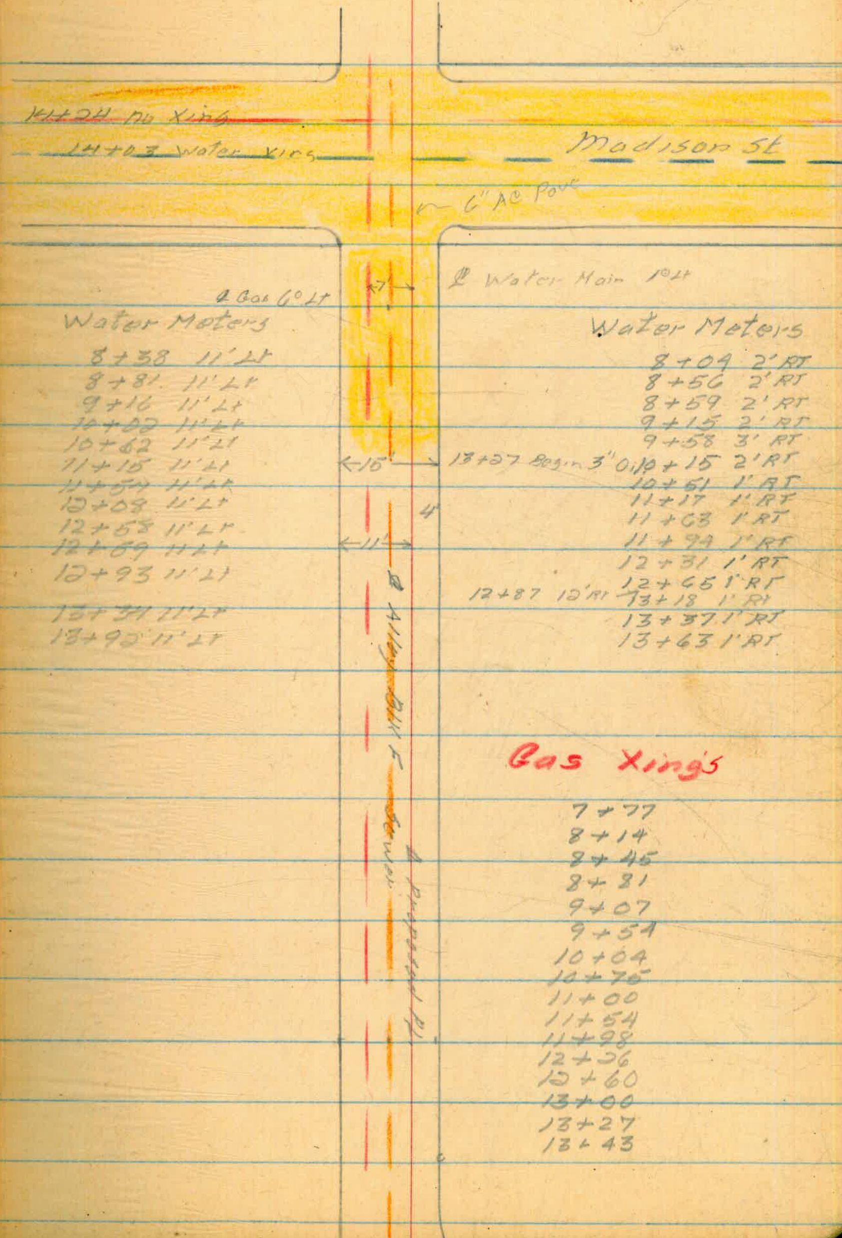
11-4-53

7



Alley Blk C + F Cont'd

14 + 43 N prop Line Madison



Water Meters

8+38 11'Lt
8+81 11'Lt
9+16 11'Lt
10+02 11'Lt
10+62 11'Lt
11+15 11'Lt
11+59 11'Lt
12+08 11'Lt
12+58 11'Lt
12+89 11'Lt
12+93 11'Lt
13+31 11'Lt
13+92 11'Lt

Water Meters

8+04 2'RT
8+56 2'RT
8+59 2'RT
9+15 2'RT
9+58 3'RT
13+27 Begin 3" O 10+15 2'RT
10+61 1'RT
11+17 1'RT
11+63 1'RT
11+94 1'RT
12+31 1'RT
12+65 1'RT
12+87 12'RT 13+18 1'RT
13+37 1'RT
13+63 1'RT

Gas Xing's

7+77
8+14
8+45
8+81
9+07
9+54
10+04
10+75
11+00
11+54
11+98
12+36
12+60
13+00
13+27
13+43

11-4-53

	6.23	392.91		386.68	
	4.28	391.84	5.35	387.56	
0+00			7.17		384.7
+50			6.97		384.9
+67			7.46		
0+80			7.2		384.6
1+00			5.7		386.1
+50			5.3		386.5
2+00			5.2		386.6
+50			5.2		386.6
3+00			5.1		386.7
+50			4.6		387.2
3+83			5.28		
3+87			3.62		
4+00			4.2		387.6
4+04			3.64		
	5.64	393.47	4.01	387.83	
4+50			5.6		387.9
+58			5.08		

BM SE BP Monroe + Cherokee

South prop Line Meade

℄

Gutter Line north side

6.9/11 Lt 384.9 — 6.5/4 Rt 385.3 edge AC pave

5.8/11 Lt 386.0 — 5.4/4 Rt 386.4

5.5/11 Lt 386.3 — 4.9/4 Rt 386.9

5.3/11 Lt 386.5 — 5.2/4 Rt 386.6

5.3/11 Lt 386.5 — 5.2/4 Rt 386.6

5.0/11 Lt 386.8 — 5.1/4 Rt 386.7

4.5/11 Lt 386.3 — 4.5/4 Rt 387.3

Top Sewer MH 3.5 Lt

388.2 — 4.0 13.5 Rt Begin Conc Drive

3.6/11 Lt — 4.0/4 Rt 387.8

13.5 Rt End Conc Driveway

5.5/11 Lt 388.0 — 5.6/4 Rt 387.9

14.5 Lt Begin Conc Garage Floor

		393.47		
4+77		5.02		
4+81		5.11		
4+93		5.09		
4+93		4.74		
5+02		4.72		
5+00		5.2	388.3	
5+21		5.32		
5+30		5.06		
+50		4.9	388.6	
6+00		4.3	389.2	
+30		4.1	389.4	
+62		5.41		
6+82		5.68	387.19	
+93		5.89	387.58	
7+00	5.10	392.99	5.58	387.4 387.89
+32		5.34	387.65	
+50		4.3	388.7	
8+00		3.3	389.7	
+50		3.4	389.6	

End cone Garage Slab

9° Rt Begin cone Single Garage

9° Rt End cone " "

16 Lt Begin cone Single Garage Slab

" " 388.5 end " 388.3 " "

5.0 / 11 Lt — 5.2 / 4 Rt

7.5 Rt Begin Cone Slab Garage Floor

8.5 Rt end " "

389.3
4.2 / 11 Lt — 5.3 / 4 Rt 388.2
389.4
4.1 / 11 Lt — 4.5 / 4 Rt 389.0
389.4
4.1 / 11 Lt — 4.4 / 4 Rt 389.1

Top Sewer MH 3.5 Lt

388.05
5.41 / 11 Lt 388.06 — 5.42 / 4 Rt South prop line monument edge out

Gutter Line South Side Monroe

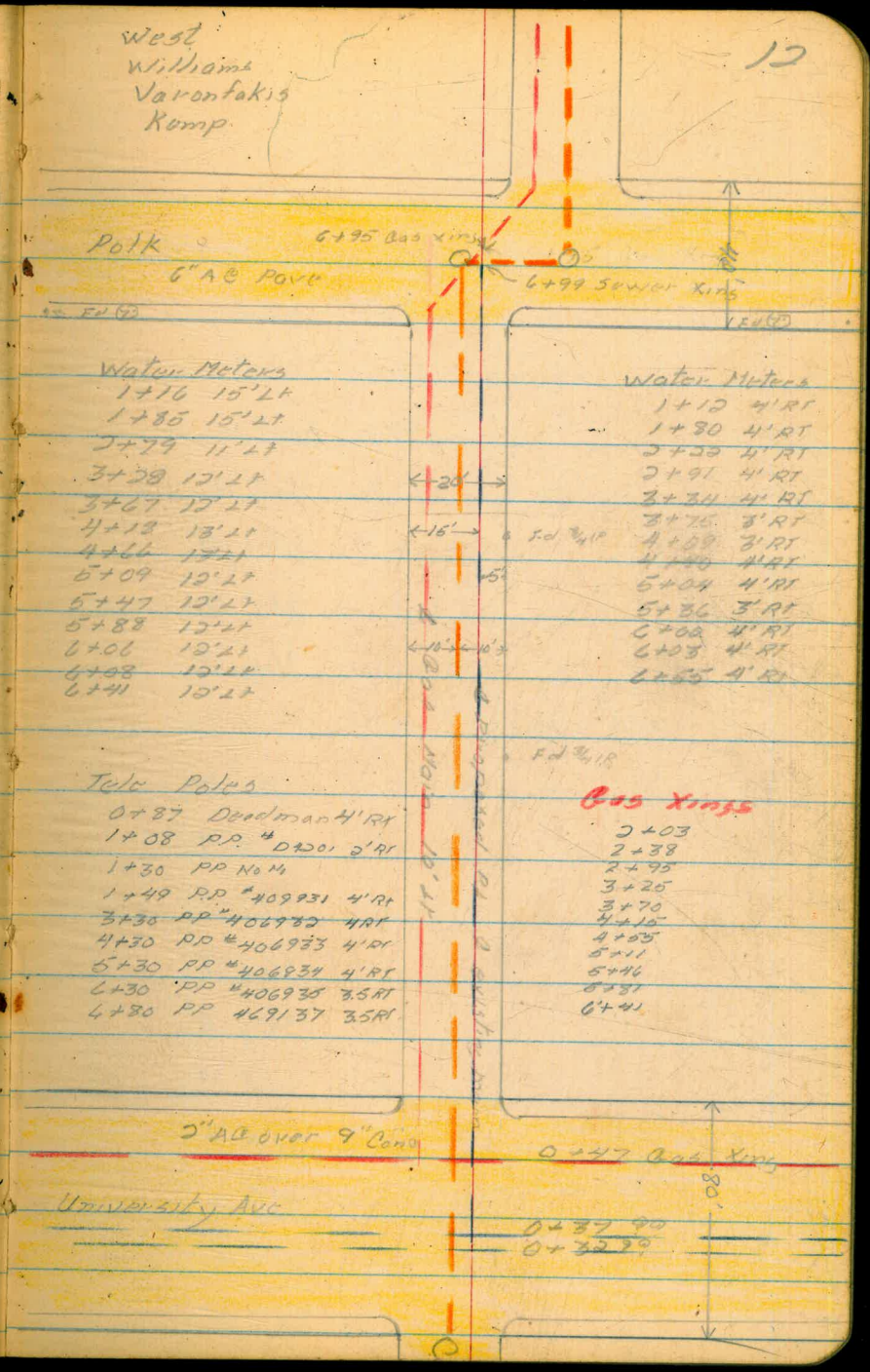
Gutter Line North Side

		392.99		
9+00			3.3	389.7
+50			3.8	389.2
10+00			4.2	388.8
+50			3.7	389.3
				389.4
11+00	6.27	395.65	3.61	389.38
+50			5.9	389.8
12+00			5.5	390.2
+50			5.1	390.6
13+00			5.0	390.7
+50			5.5	390.2
14+00			8.91	386.7
+43			8.7	387.0
	3.66	392.94	6.37	389.28
			6.24	386.70 = 386.68

Alley Blk 197 N of University E of Swift

7+19.42 North prop line Polk

0+00 South prop line University



Profile Alley Blk 197

11-5-53 Rain

	6.58	365.40	358.82	BM BP NW Cor. South & University
0+00		5.28	360.1	South Line University
+12		5.61	359.8	South Gutter-Line
+50		4.78	360.6	N
+67		5.36	360.0	North Gutter
1+00		3.9	361.5	
+50		2.0	363.4	
2+00		1.0	364.4	
	7.59	372.04	0.95	364.45
+50		7.0	365.0	
3+00		6.3	365.7	
+50		5.7	366.3	
4+00		5.2	366.8	
+50		4.4	367.6	
5+00		3.6	368.4	
+50		3.2	368.8	
6+00		2.7	369.3	
+50		2.0	370.0	
+86		2.70	369.3	Gutter South Side

372.04

6+99.5		2.29	+7.3 To Flowline	1	Top E rim Sewer MH 5011
7+00		2.30	369.7		
7+12	6	2.45	369.6		Bottom Ob
+12	E	1.82	370.2		Top Ob
7+19	52	1.3	370.7		
	0.95	365.40	7.59	364.45	
			6.57	358.83 = 358.8	

Mission St Madison
to Texas St

5+20 39 ℄ End AC pave

15°59'30" Rt 84°48'30" Rt 1+08 to Texas St Main
4+27.07 ℄ on 2" Main to Texas St

Parallel to Cb
4+10.46 EC 35°55' Rt Δ = 45°31'
4+09.02 Long Chord dist L = 340.65'
Δ = 40° Def Per 4.0085647
R = 100'
L = 69.81

Cb R = 428.80

3+40.65 PCC

Δ = 45°31'
R = 428.80
L = 340.65

0+00 BC 12' off South Cb Madison [illegible]

11-6-53

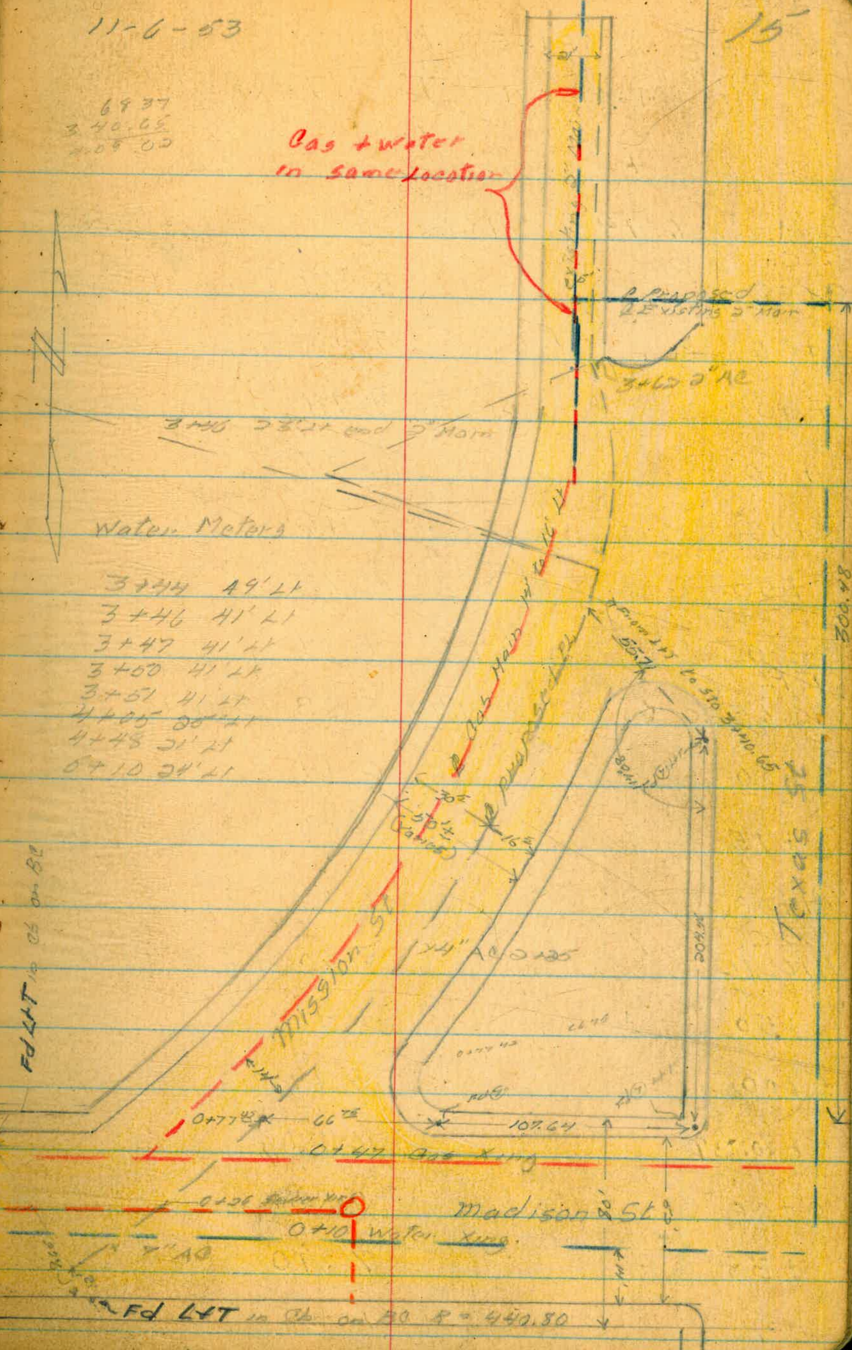
15

68.37
340.65
409.02

3+46 23' Lt end 2" Main

Water Meters

3+44 49' Lt
3+46 41' Lt
3+47 41' Lt
3+00 41' Lt
3+61 41' Lt
4+05 30' Lt
4+48 31' Lt
0+10 24' Lt



℄ PROFILE MISSION
MADISON TO TEXAS

	+	HI	−	EL.	
B.M	6.44	348.72			342.28
B.C.					343.23 AR
0+00			5.49		~~342.72~~
+26			4.80	+ 6.1	to Flow Line 337.82 343.92
+50			5.08		343.64
1+00			4.74		343.98
+50			4.37		344.35
2+00			4.46		344.26
+50			4.73		343.99
3+00			4.94		343.78
T.P. 340.65 E.C.	6.00	349.49	5.23	343.49	
3+50			6.14		343.35
+75			6.59		342.90
4+00			5.63		343.86
E.C. 410.46			5.30		344.19
+50			5.47		344.02
5+00			5.99		343.50
5+20.39			6.21		343.28
0+00			5.25		344.24
+38			7.40		342.09
+50			10.25		339.24

WEST
WILLIAMS
VARONFAKIS ⊼
KEMP ℄

11/6/53

348.72
345.92
4.80

MADISON + LOUISIANA S.E.B.P.

Top Sewer MH 55' Rt

END A.C. PAVE

MAIN TO TEXAS ST
EAST FROM STA. 4+27.07

7.4 / 10 LT.	7.7 / 10' RT.
9.4 / 10 LT.	10.1 / 10' RT.

℄ PROFILE MISSION
MADISON TO TEXAS

	+	349.49	−	EL
				336.99
0+68			12.5	~~337.24~~
1+00			12.20	337.29 ✓
1+08			12.36	337.13 ✓
T.P.	4.93	348.97 ✓	5.45	344.04 ✓
CK. TO B.M.			6.62	342.35 = 342.28

WEST
WILLIAMS
VARONFAKIS ET
KEMP ET

11/6/53

A.R.	13.7	11.5
	10 LT	10 RT

TEXAS ST

TEXAS ST MAIN

Alley Blk 2 N of Polk
E of Menlo

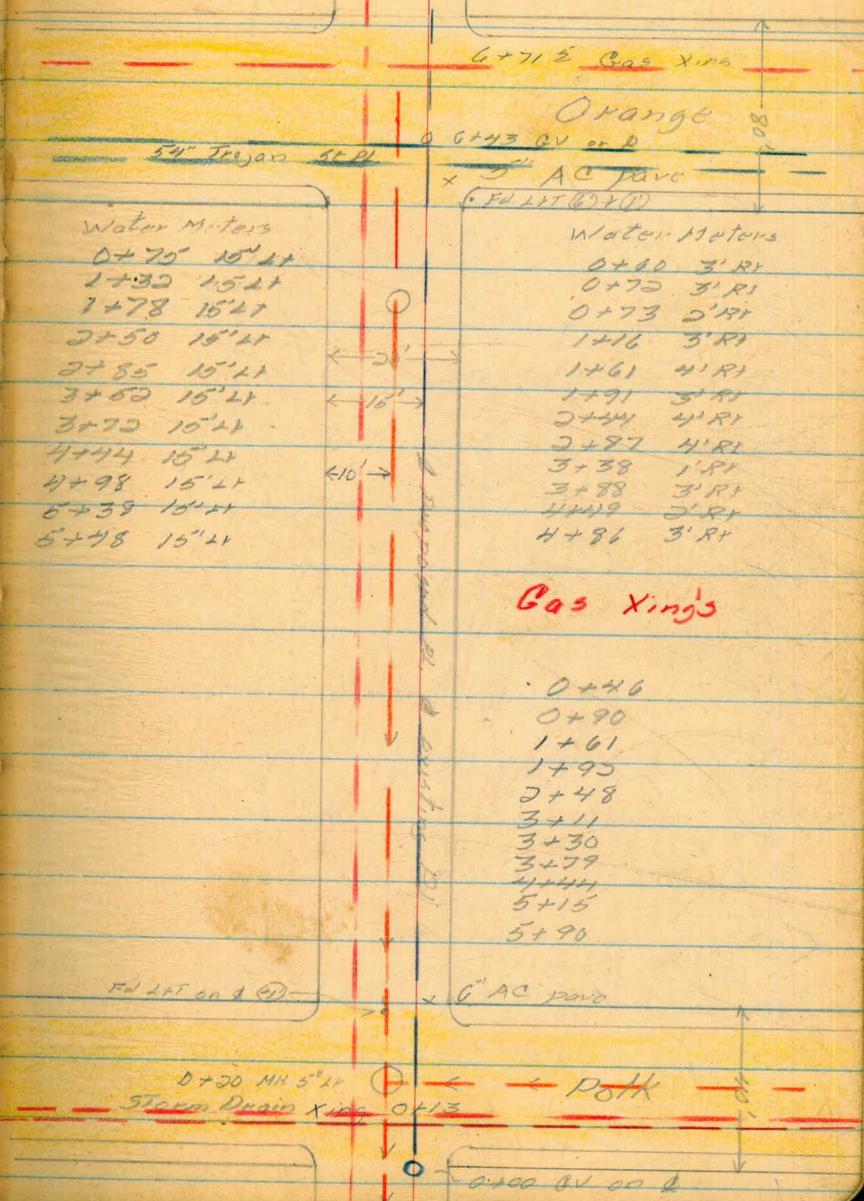
6+97.45 North prop Line Orange
71
23
71'

465-A

0+00 South prop Line Polk

West
William
Varontakis
Kemp

(Began)
11-12-53



6+71± Gas Xing
Orange
0 6+43 GV on ℄
54" Trojan St Rt
3" AC pave
Fd L&T (6) & (1)
Water Meters
0+75 15' Lt
1+32 15' Lt
1+78 15' Lt
2+50 15' Lt
2+85 15' Lt
3+62 15' Lt
3+72 15' Lt
4+44 15' Lt
4+98 15' Lt
5+38 15' Lt
5+48 15' Lt
30'
15'
10'
80'
Water Meters
0+60 3' Rt
0+72 3' Rt
0+73 2' Rt
1+16 3' Rt
1+61 4' Rt
1+91 3' Rt
2+44 4' Rt
2+87 4' Rt
3+38 1' Rt
3+88 3' Rt
4+49 2' Rt
4+86 3' Rt
Gas Xing's
0+46
0+90
1+61
1+95
2+48
3+11
3+30
3+79
4+44
5+15
5+90
Fd L&T on ℄ (4)
6" AC pave
0+20 MH 5' Lt
Storm Drain Xing 0+13
Polk
0+00 GV on ℄

Alley Blk 2
@ Profile

West
Williams
Varonfakis
Kemp

Warm
11-15-53

	6.30	349.39		343.09	BM NW BP University + Menlo
	0.07	349.39	0.57	348.82	Turn Top FH NE cor. Menlo + Polk
0+00			6.12		
+07			6.62		Gutter South Side
+20			6.09	+ 5.3 To Flow	Top east side Sewer MH
+40			6.02		North edge AC pave
	6.37	349.68	6.08	343.31	
+50			6.0		
1+00			5.3		
+50			5.0		
2+00			4.6		
+50			4.2		
3+00			3.1		
+50			2.1		
4+00			1.0		
+27	6.23	355.58	0.33	349.35	+6.5 To Flow Top E edge Sewer MH
+50			5.9		
5+00			5.3		
+50			4.5		

	355.58		
6+00		4.3	
+17.5		4.47	
+32.5		4.58	
+50		4.04	
+97.45		3.82	
242	349.08	8.92	346.66
0.66	349.48	0.26	348.82
		6.38	343.10 = 342.09

edge AC pave

Gutter South side

edge conc pave North line prop

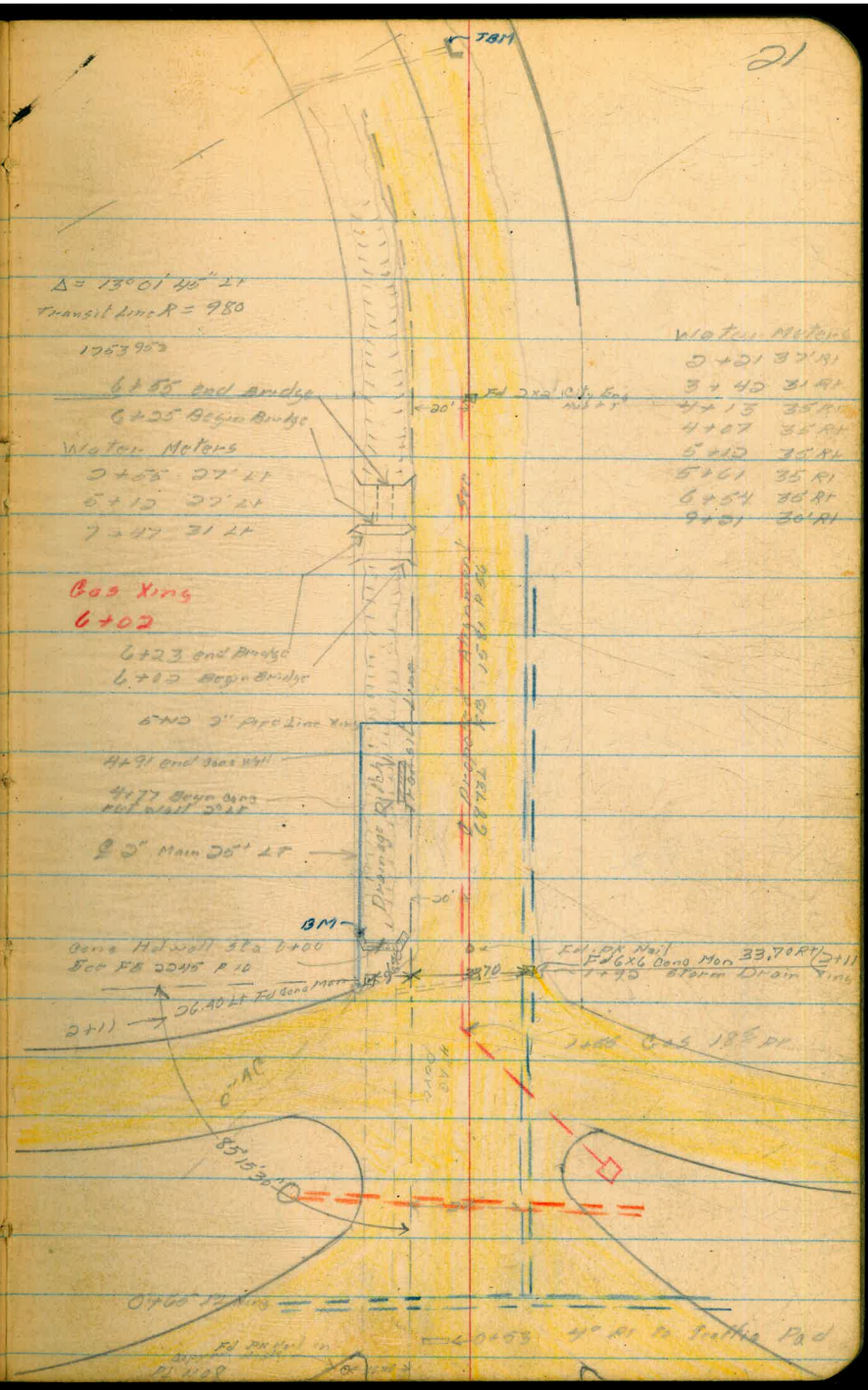
TBM

Sand Rock Grade
(Texas St)

7+68.34 BC

2+30 PI = 0+00 Drain Line Survey See FB 2246 P10

0+00.40 16.35 Lt to PI on 1108



Profile Transit Line
Sand Rock Grade (Texas)

12-1-53

West
Williams
Voronfakis
Kemp

Sta.					Lt	Rt
	0.13	56.97 ✓		56.84	BM on Conc Headwall	2+30 17' Lt
0+00			12.64	44.3 ✓	10.85/20 Lt Top Ac Berm; 11.90/20 Lt; 12.65/10 Lt	12.69/30 Rt; 11.87/31 Top Berm
0+50			9.84	47.1 ✓	8.43/20; 9.16/30 Lt; 9.89/50 Lt	9.75/10; 11.37/48; 10.56/49
1+00			7.05	49.9 ✓	8.62/31 Lt	6.97/10 Rt; 7.59/34 Rt; 6.83/35 Rt
1+00			7.66	± 20' To Flow	93' Lt Top West edge Sewer MH	
+50			4.20	52.8 ✓	5.3/20 Lt	4.22/10 R; 4.45/30 Rt
2+00			1.23	55.7 ✓	1.20/16 Lt; 1.85/15 Lt	1.14/10 Rt; 1.44/35' Rt; 0.77/36
	11.95	68.79 ✓	0.13	56.84 ✓		
+50			9.70	59.1 ✓	11.8/5' Lt	9.20/10 Rt; 9.02/31 Rt edge oil
3+00			5.0	63.8 ✓	6.7/5	5.02/4 Rt edge oil →; 4.95/10 Rt; 4.7/32 Rt
	12.10	80.40 ✓	0.49	68.30 ✓		
+50			12.15	68.3 ✓	14.6/3' Lt	12.27/5 Rt; 12.02/10 R; 11.91/29 Rt (edge oil)

12-5-53.

	80.410							
4+00		7.05	73.4	11.8 / 9 Lt	8.0 / 6 Lt	7.74 / 5 Rt	7.30 / 10 Rt	7.14 / 32 Rt
						edge oil →		
+50		2.55	77.9	8.0 / 8 Lt	2.7 / 4 Lt	3.02 / 3 Rt	2.60 / 10 Rt	2.63 / 28 Rt
						edge oil →		
	11 62	90.36	1.66	78.74	Turn on rock cobble wall			
5+00		10.02	80.3	13.3 / 4 Lt		8.2 / 2 Rt	8.30 / 5 Rt	7.87 / 10 Rt	7.79 / 29 Rt
							edge oil →		
+50		2.8	87.6	4.8 / 3 Lt		3.25 / 3 Rt	3.21 / 10 Rt	3.71 / 24 Rt
						edge oil →		
	12.86	10 3.00	0.22	90.14				
6+00		11.2	91.8	13.3 / 7 Lt	10.8 / 4 Lt	14.67 / 3 Rt	11.29 / 10 Rt	11.54 / 24 Rt
						edge oil →		
+50		6.93	96.1	on Bridge	6.60 / 13 Lt	6.99 / 1 Rt	6.63 / 10 Rt	7.37 / 24 Rt
						edge oil →		
7+00		2.56	100.4	3.96 / 9 Lt	1.49 / 6 Lt		2.25 / 10 Rt	3.04 / 24 Rt
								edge oil
	12.36	11 5.26	0.10	102.90				
+50		10.32	104.8	13.00 / 10 Lt	10.15 / 10 Lt	10.46 / 2 Lt	9.91 / 10 Rt	10.14 / 19 Rt
						edge oil →		

	115.26			
7+69.34 BC		8.56		106.7
8+00		5.83		109.4 ✓
+50		1.56		113.7 ✓
13.10	128.31 ✓	0.05	115.21 ✓	
9+00		10.34		118.0 ✓
+50		6.18		122.1 ✓
1.22	128.53 ✓	1.00	127.31 ✓	
0.21	116.04 ✓	12.70	115.83 ✓	
0.10	103.63 ✓	12.51	103.53 ✓	
		9.57	94.06 ✓	=
			48.9	

℄

9.86 / 12 Lt	8.09 / 9 Lt	8.65 / 3 Lt	8.37 / 10 Rt	8.52 / 17 Rt
		← edge oil	→	
10.25 / 13 Lt	5.46 / 8 Lt	6.06 / 4 Lt	5.50 / 10 Rt	5.53 / 15 Rt
		← edge oil	→	
5.08 / 13	0.34 / 12 Lt	1.70 / 7 Lt	1.45 / 10 Rt	1.35 / 16 Rt
		← edge oil	→	
1.38 / 22 Lt	9.38 / 20' LT.	10.69 / 7 Lt	10.22 / 10 Rt	10.39 / 16 Rt
		← edge oil	→	
8.82 / 26 Lt	5.79 / 23 Lt	6.57 / 8 Lt	6.13 / 10 Rt	6.32 / 15 Rt
		edge oil	→	

□ in conc. 'hw south end

Turn on Conc Hdwall on west side of Road

94.10 . Nail in Power Pole 275310

Flow Line
2.5 storm drain
1+98

56.84
.15
56.99
2.40
59.39
2.65
61.94
3.05
48.9

Amherst St 67th to 68th

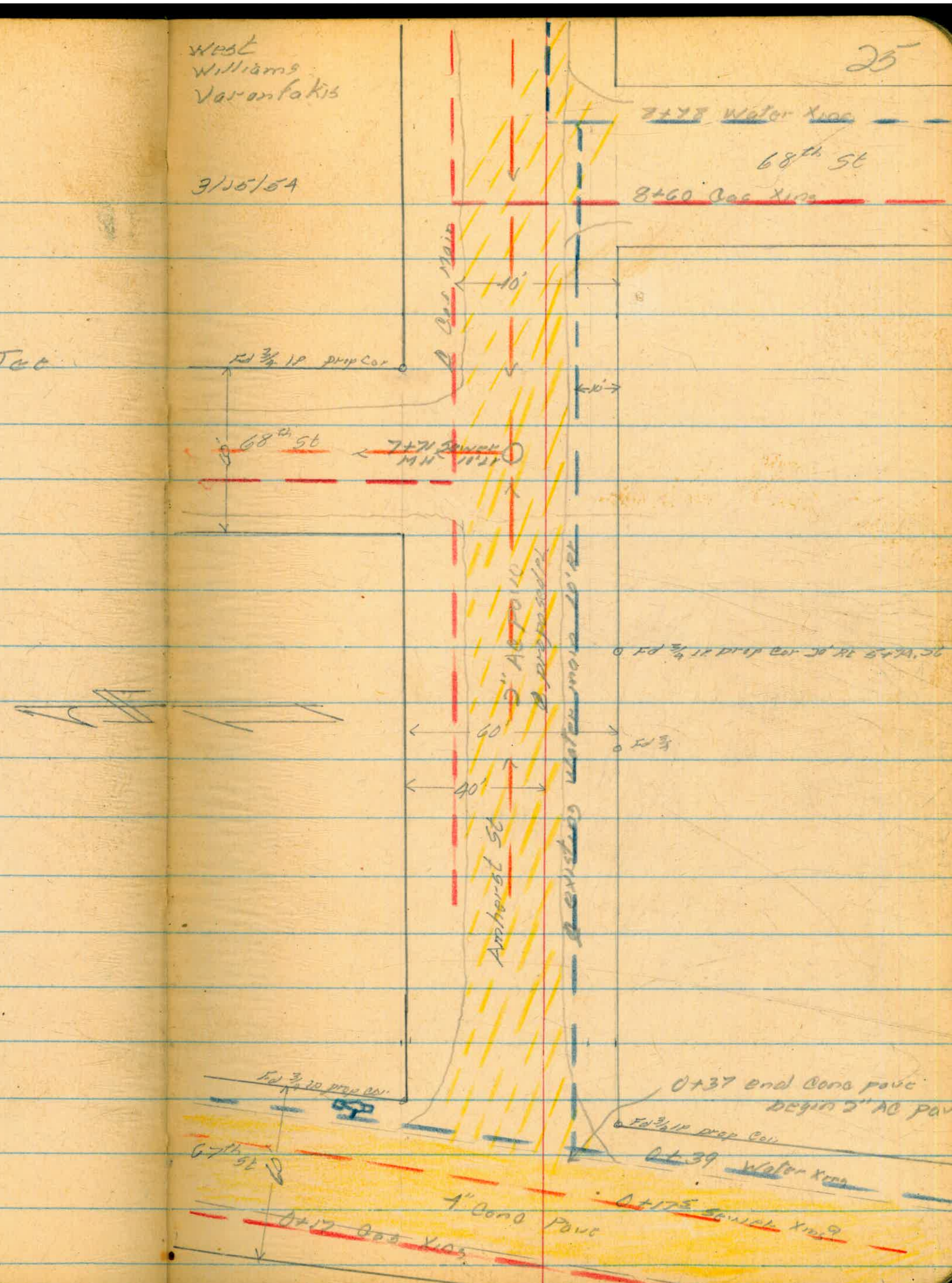
7+60 ⊈ Amherst = 2+11 ⊈ 68th Jct

5+74.26 POT

0+60 POT east line of 67th

West
Williams
Varontakis

3/16/54



℄ Profile Amherst St

	2.05	459.45		
	4.11	455.09	8.47	450.98
0+00			7.37	
+15			10.57	
+20			10.67	
+37			10.62	
+50			10.25	
1+00			8.11	
+50			6.97	
2+00			6.57	
+50			5.95	
3+00			5.46	
+50			5.17	
4+00			5.00	
+50			4.80	
5+00			4.40	
+50			4.25	
6+00			4.20	
+50			4.14	

457.40 BM SW BP 68th + El Cajon

West prop line 67th

10.40/10 Lt 11.08/10 Rt

10.38/10 Lt West edge conc pave 11.00/10 Rt

10.27/10 Lt east " " " 11.16/10' Rt

16' Lt edge AC pave 6' Rt edge AC pave

14' " " " 8 Rt " " "

14' " " " 8 Rt " " "

14' " " " 8.5 Rt edge AC pave

8

14' Lt edge AC pave 8' Rt edge AC pave

13' Lt edge AC pave 7 Rt edge AC pave

15 Lt edge AC pave 7 Rt edge AC pave

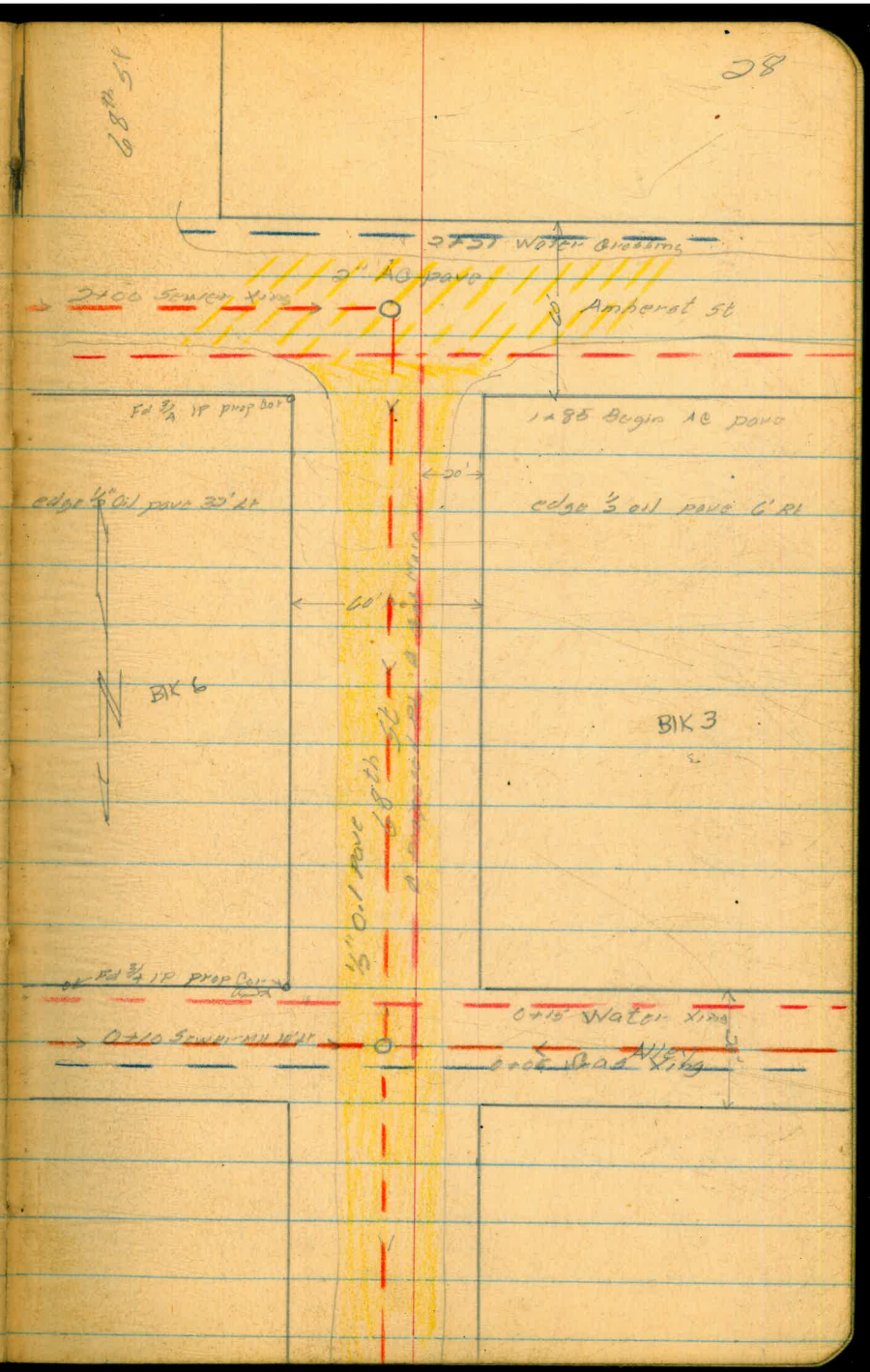
		455.09			
7+00			4.04		16 Lt edge AC pave · 6 Rt edge AC pave
+50			4.16		
+71			4.10	+9.1 To Flow	Top south edge sewer MH 10' Lt
+60.06 Tee			4.22		
8+00			4.49		18' Lt edge AC pave · 4 Rt edge AC pave
+50			4.40		
9+00			4.06		17' Lt edge AC pave · 5 Rt edge AC pave
	8.51	459.49	4.11	450.98	
			2.10	457.39 =	457.40

68th St Alley South of El Cajon to Amherst St

2+31.05 South prop line Amherst

2+11.05 68th = 2+60.06 Amherst (TCE)

0+00 North Line Alley



68th St
Alley South of El Dorado
to Amherst

West
Williams
Varonfakis
3/10/54

210	459.50	457.40
0+00	5.12	454.4 +3.5
0+10	4.88	454.6
+50	5.96	453.54
1+00	6.90	452.6
+50	7.94	451.6
2+00	8.46	451.0
+11.05 Tan	8.60	451.0
2+31.05	8.64	450.9
	210	457.40 = 457.40

BM NW BF 68th + El Dorado

To Floral Line

Top West edge sewer MH 10'21

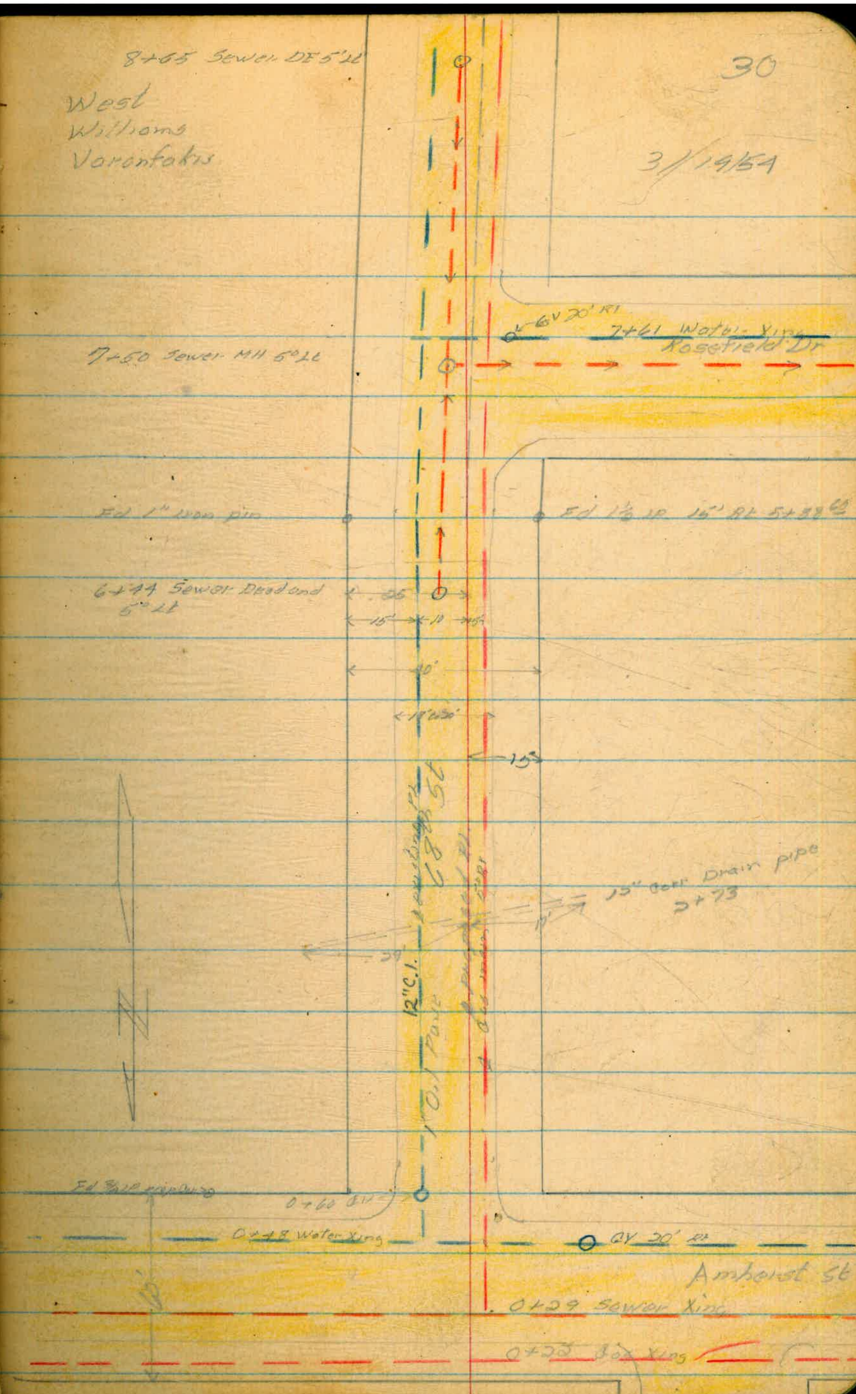
South prop line Amherst St

68th St Amherst
to Tower

5+88.69 ✗	2° 06' 30" Rt	
0+40 = 8+65.03 Amherst St		
0+00	North prop Line Amherst	

West
Williams
Vorontakis

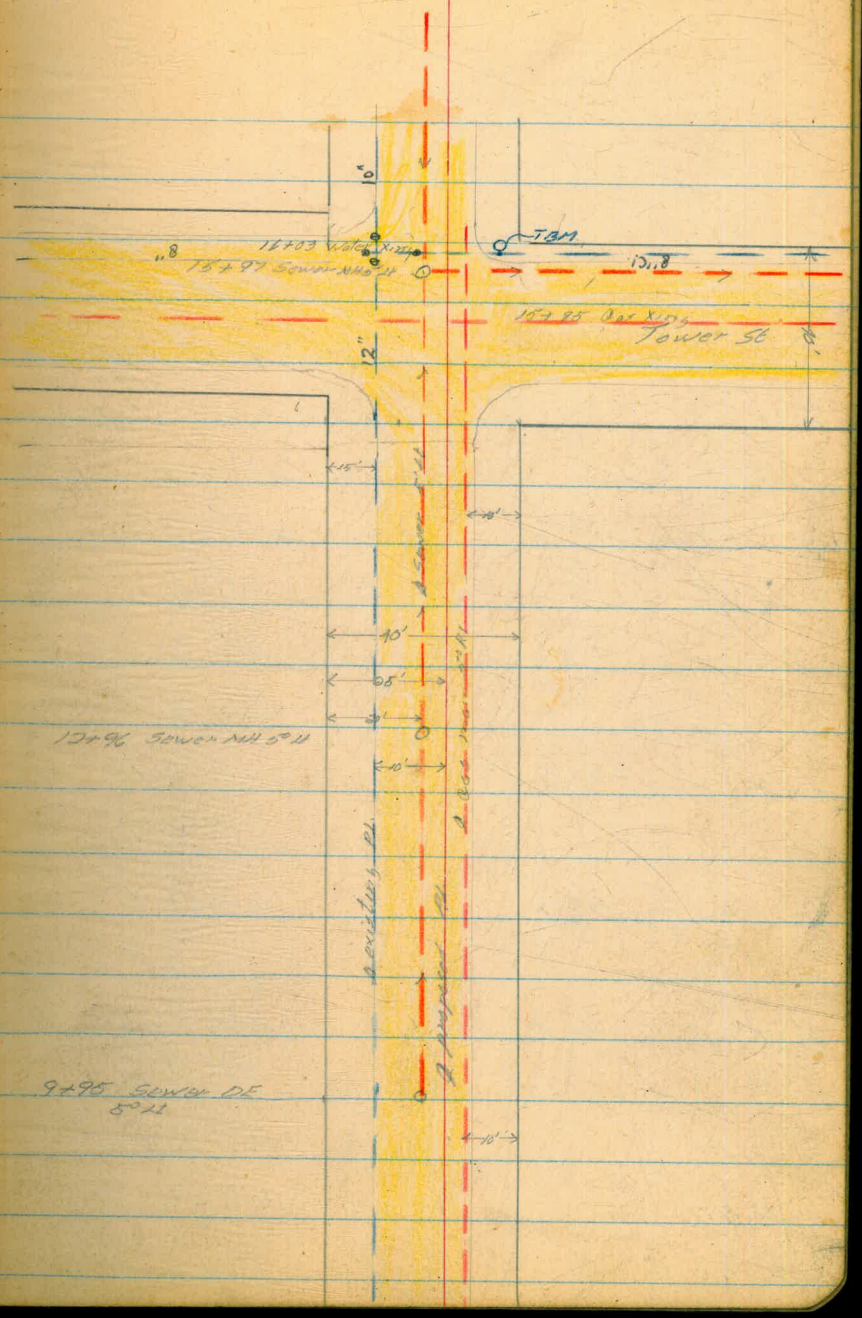
3/1/1964



16+06 $\frac{05}{}$ South prop line Tower

15+81 $\frac{05}{25}$ Tec

16+06 05



℄ Profile 68th St
Amherst to Tower

West
Williams
Varontakis

3/19/54

	1.26	458.66 ✓		457.40	BM SWBP 68th & El Cajon	
	1.36	452.41 ✓	2.61	451.05 ✓		
0+00			0.9	451.5 ✓	North prop Line Amherst	
+21			1.43	451.0 ✓	Begin oil pave	
+40 Tee			1.27	451.1 ✓		
+50			1.40	451.0 ✓		
1+00			3.17	449.3 ✓	14 Lt edge oil	6' Rt edge oil
+50			4.88	447.5 ✓		
2+00			6.55	445.9 ✓	16 Lt edge oil	4 Rt edge oil
+50			7.15	445.~~8~~3 crw ✓		
+73.9					−8.3 Top 12" Drain 2.9 Lt	−9.7 Top 12" Drain 17' Rt
3+00			7.35	445.1 ✓	16.5 Lt edge oil	5 Rt edge oil
+50			6.92	445.5 ✓		
4+00			5.73	446.7 ✓	13' Lt edge oil	5 Rt edge oil
+50			3.36	449.0 ✓		
5+00			1.26	451.3 ✓	14' Lt edge oil	6' Rt edge oil
T.P.	11.01	463.15 ✓	0.27	452.14 ✓		
+50			9.91	453.24 ✓		
5+88.60 ℄			8.47	454.68 ✓		
6+00			8.12	455.0 ✓	14 Lt edge oil	8' Rt edge oil

		463.15 W			
6+50		7.36	455.8 ✓		
7+00		6.78	456.4 ✓	11 Lt edge oil	11 Rt edge oil
+50		5.96	457.2 ✓		
			+7? to Flow		
+50		5.83	457.32 ✓	Top West edge Sewer MH	
8+00		5.38	457.8 ✓	11 Lt edge oil	7 Rt edge oil
+50		4.98	458.7 ✓		
9+00		3.16	460.0 ✓	12 Lt edge oil	6 Rt edge oil
+50		2.59	460.6 ✓		
10+00		2.74	460.4 ✓	13 Lt edge oil	6' Rt edge oil
+50		3.23	459.4 ✓		
11+00		4.98	458.~~3~~ 2 C.F.W. ✓	13 Lt edge oil	6' Rt edge oil
+50	0.75	457.56 W	6.34 456.81 ✓		
12+00		2.01	455.5 ✓	12 Lt edge oil	6' Rt edge oil
+50		3.06	454.5 ✓		
			+6.5 to Flow		
+96		3.05	454.5 C.F.W. 453.97 C.F.W.	Top West edge Sewer MH 5' Lt	
13+00		3.71	453 8 ✓	12' Lt edge oil	5' Rt edge oil
+50		3.98	453.6 ✓		
14+00		4.58	453.0 ✓	12' Lt edge oil	6' Rt edge oil
+50		6.33	452.2 ✓		

Profile 68th St.
Cont

		457.56 ✓			
15+00			5.96	451.6	✓
+50			6.99	450.6	✓
+81^05 Tee			7.38	450.2 +13^c to Flow	✓
+97			7.76	449.8	✓
16+00			7.73	449.8	✓
+06^05			7.92	449.6	✓
	6.61	457.78 ✓	6.39	451.17	✓
	6.20	463.02 ✓	0.96	456.82	✓
	2.83	464.13 ✓	11.72	451.30	✓
	6.94	460.83 ✓	0.24	453.89	✓
			3.37	457.46	✓

3/19/54

13' Lt edge oil   6' Rt edge oil

Top west edge Sewer MH 5° Lt

South prop line Tower
68th Tower
TBM Nail in PP P17M52 SW cor

457.40

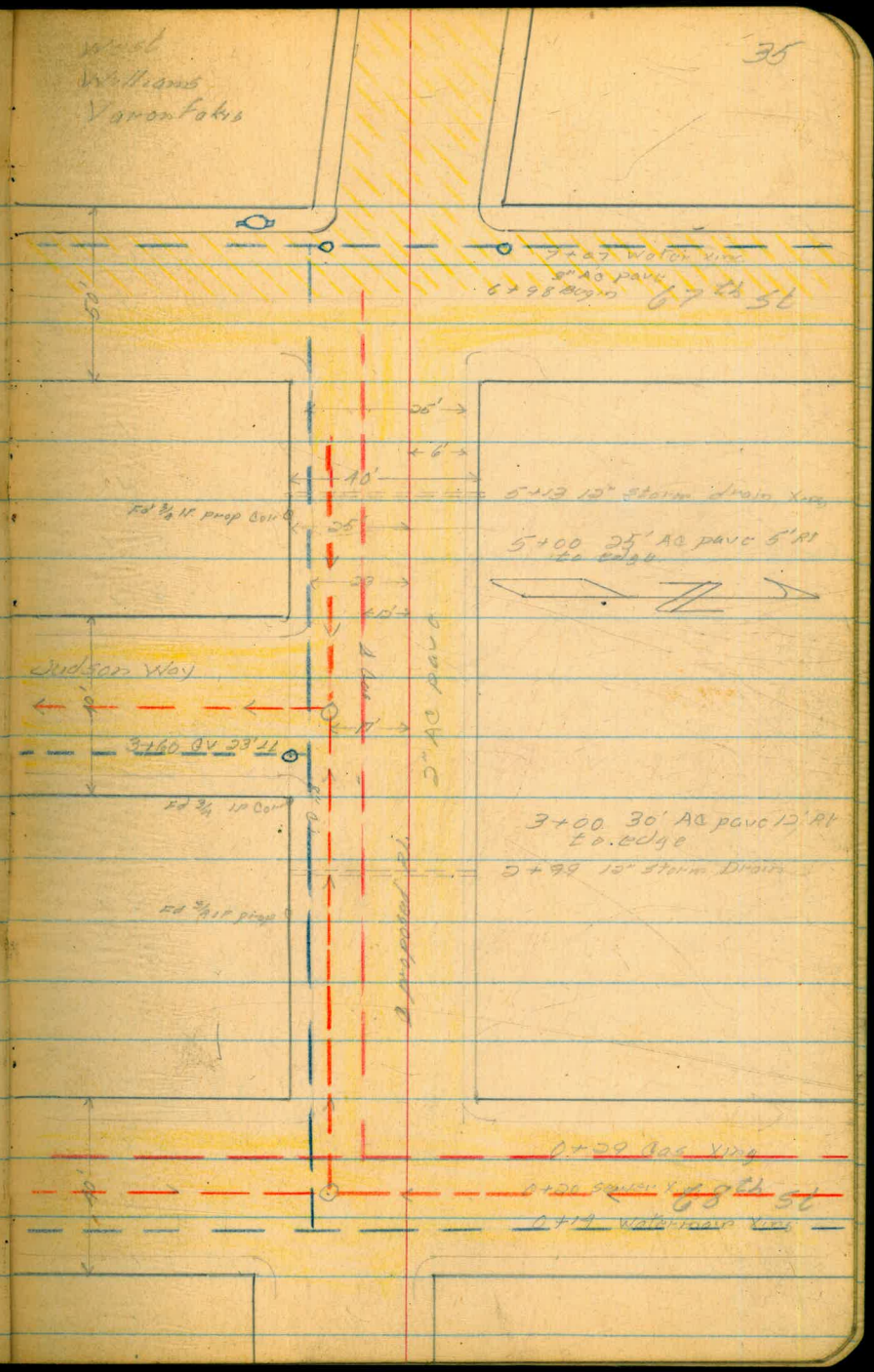
REDUCED BY C.F.W. 15 DEC '54

Tower St 68th to 67th

7+24± West prop line 67th

0+24 Q.V.

0+00 East line 68th



℄ Profile Tower St
68th to 67th

West
Williams
Varonfakis
Kellhofer

3/23/54

	5.29	456.46 ✓		451.17	TBM nail in power pole east prop line 68th
0+00			6.93	449.6 ✓	
+50			6.28	450.2 ✓	
1+00			6.26	450.2 ✓	
+50			6.51	450.0 ✓	
2+00			7.02	449.44 ✓	
+50			7.67	448.8 ✓	
2+49			10.2	446.3 ✓	9° Rt Flow line 12" Culvert
3+00			8.29	448.2 ✓	
+50			7.57	448.9 ✓	+13.5 To Flow Line
+69			6.99	449.5 ✓	Top North ton sewer MH 17' Lt
4+00			6.58	449.9 ✓	
+50			5.92	450.75 C.F.W.	
	7.29	458.13 ✓	5.62	450.84 ✓	
5+00			7.04	451.1 ✓	27' Lt 12" storm drain
			9.19	~~449.02~~	Flow line 12' Rt 12" storm drain
+13			8.51	449.6 ✓	
+50			6.60	451.5 ✓	
6+00			5.82	452.3 ✓	
+50			4.85	453.3 ✓	

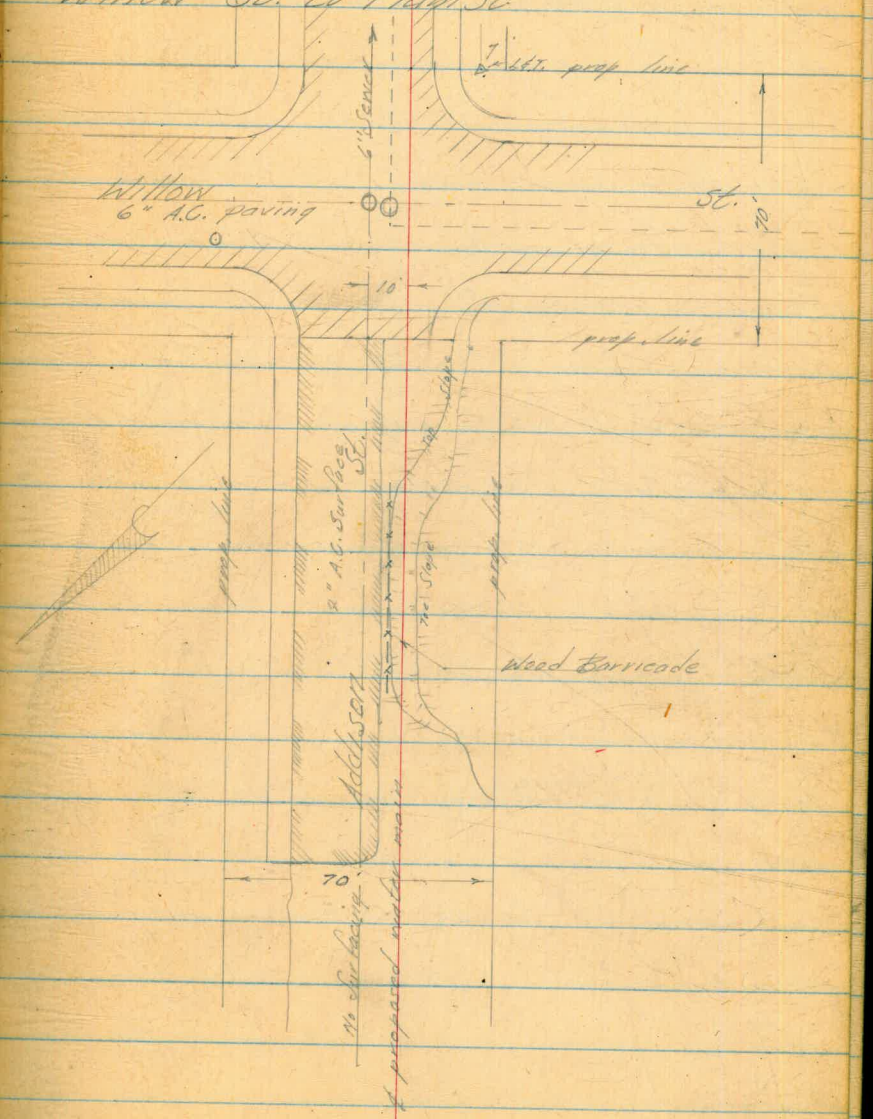
		458.13 √			
7+00			4.44	453.7 √	
+29[4]			4.24	453.9 √	West prop Line 67th
	1.57	457.95 √√	1.75	456.38 √	Top FH SW Cor 67th & Tower
	8.22	456.47 √	9.70	448.25 √	
			5.28	451.19 √√	= 451.17

REDUCED 17 DEC '54
C.M.W.

Wert
Kemp
Holaham

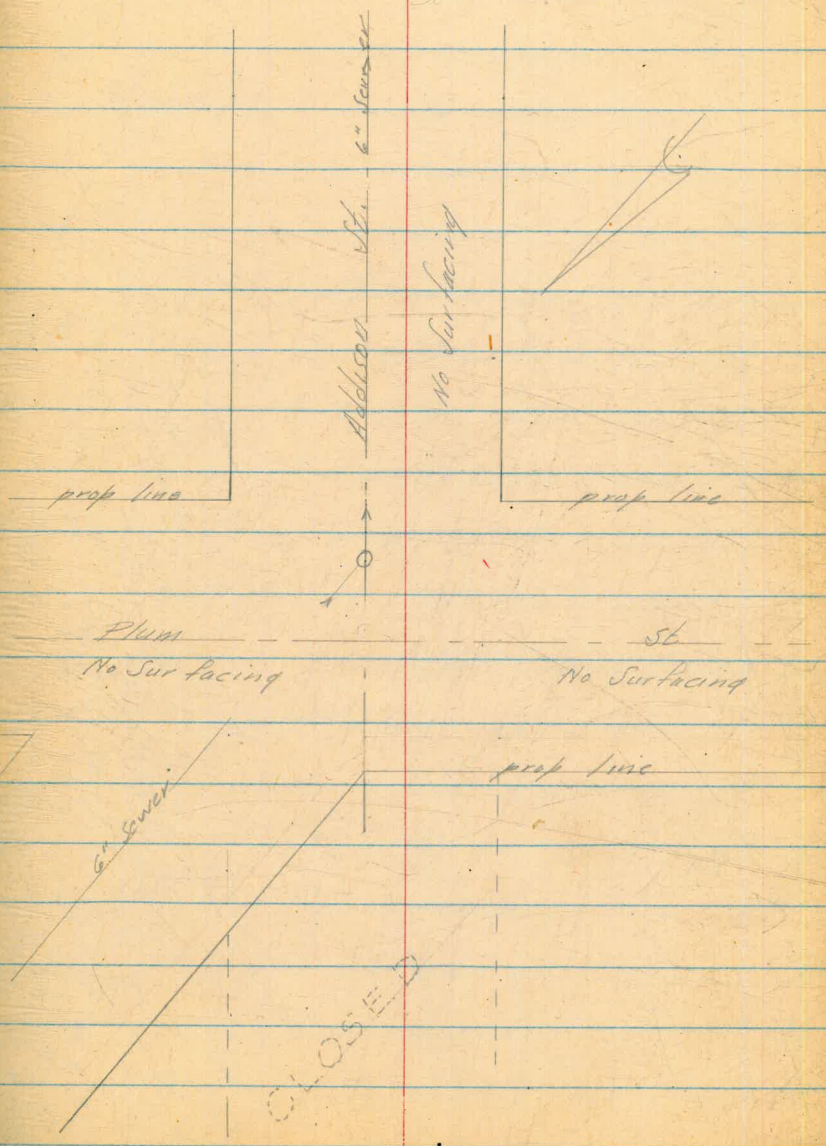
Profile & Pro. Water on Addison St. or Willow St. to Plum St.

0+00	E. prop. line of Willow St.
+18	E. curb line
+35	Sewer MH. 10' Rt.
+36	Water 5' Rt.
+40	angle point 16" Water line
+45	Gas MH. 39' Rt.
+52	W. curb line
+70	Edge 6" A.C. paving



Profile of Addison Cont.

3+82	Sewer M.H.
4+90	W prop. line Plum St.



Profile & Proposed Water on Addison St. — Willow St. to Plum St.

64.20

N.W. B.P. Cañon & Willow St.

11.06 72.26

0+00		2.2	70.06
+18		1.4	70.86
+35		0.42	71.84
+36		0.59	71.67
+50		0.3	71.96
+52		0.2	72.06
T.P.		0.94	71.32

E. curb line willow

Sewer - M.H. 6.0 rod to F.L.

Water M.H. A.A.V.

9.56 80.88

+70		6.3	72.58
1+00		6.0	74.88
+50		3.4	77.48
2+00		6.7	74.18

W. Curb line Willow.

NW B.P. Addison Willow.

West edge 6" A.C. paving

LC 6.7/10 — 5.6/5 — ℄ 2.6 — 0.4/5.0 — EC 0.8/10 — 1.4/15

+10		9.3	76.58

Profile Addison Cont.

		80.88	
T.P.		0.40	80.48
	11.81	92.29	
2+50		16.3	75.99
3+00		7.9	84.39
T.P.		0.27	92.02
	12.49	104.51	
+50		12.0	92.51
+82		4.50	100.01
4+00		3.0	101.51
T.P.		0.94	103.57
	8.57	112.14	
+40		3.6	108.54
T.P.		13.08	99.06
	1.02	100.08	
T.P.		14.78	87.30
	0.30	87.60	

Lt. ℄ Rt

16.3 / 10	16.0 / 5	14.4 / 0	12.4 / 5	10.9 / 10	11.0 / 15
	7.7 / 5	7.5 / 0	7.0 / 5		

Sewer M.H.

West prop. line Plum St.

Profile Addison Comb.

	87.60		
T.P.		8.50	79.10
0.71	79.81		
		8.48	71.33
0.58	71.91		
		10.71	61.20
			61.20

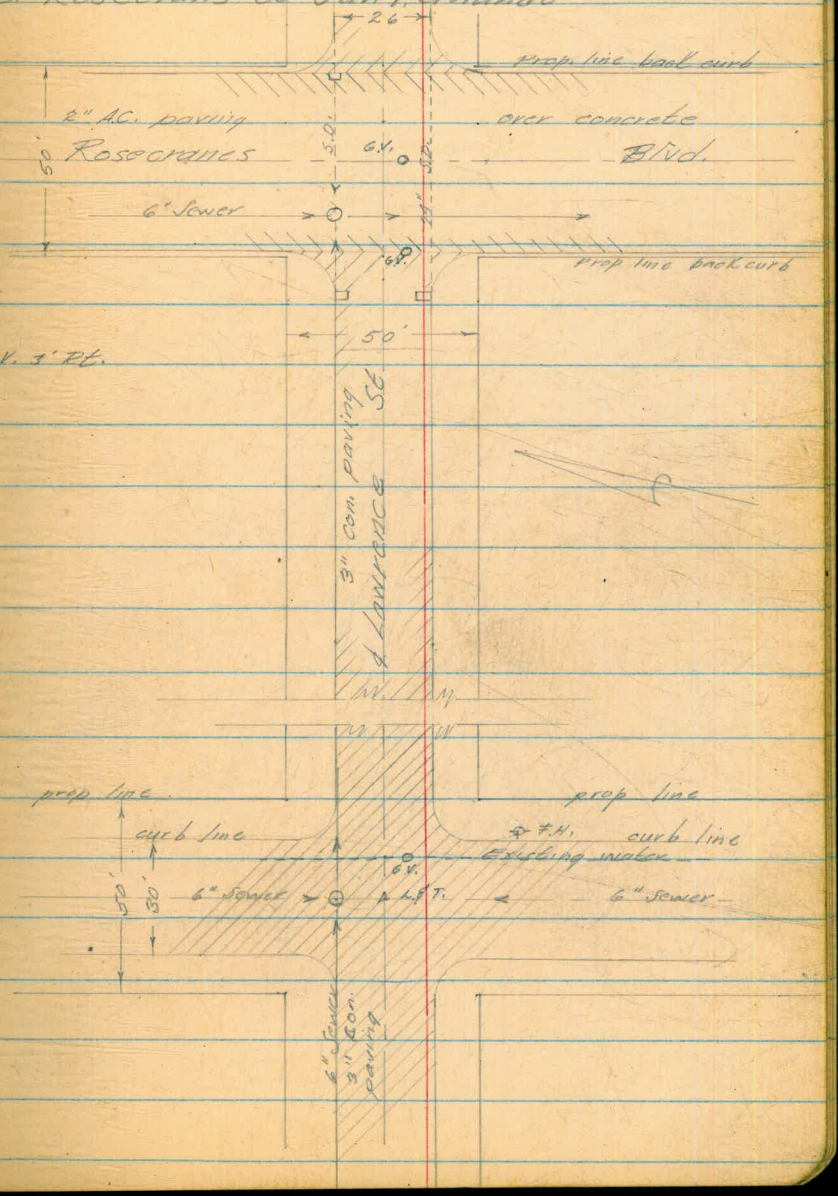
BP. Cañon & Willow

Wert
Kemp
Holahan

5-20-54

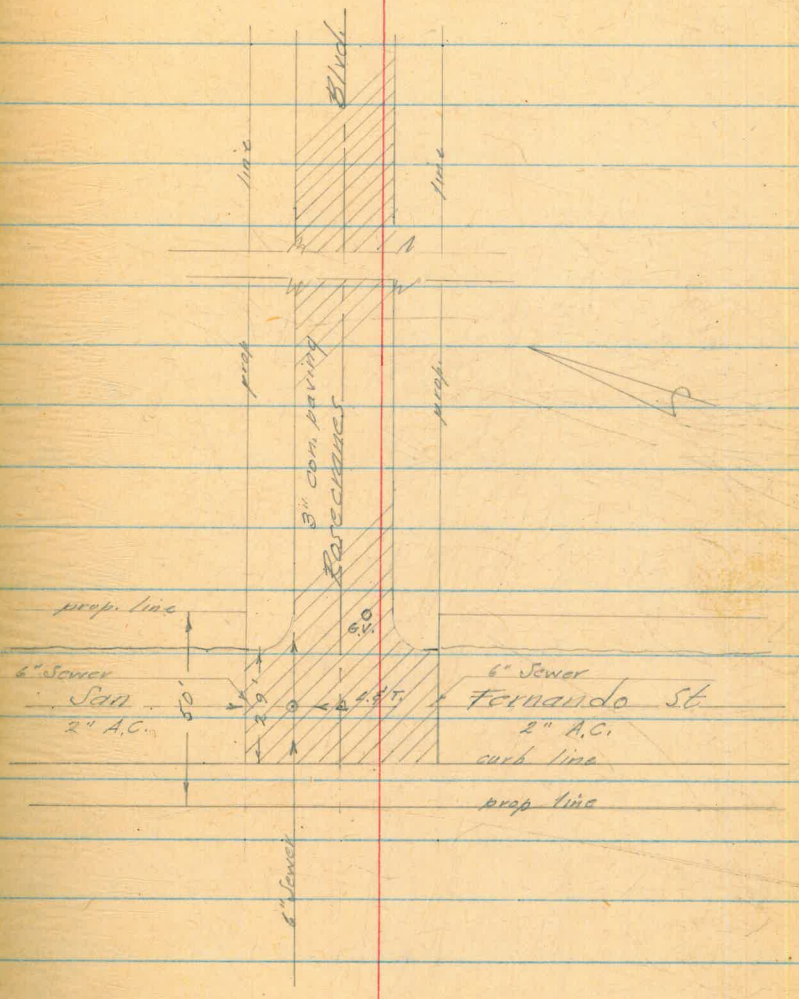
Profile & Proposed Water on Lawrence St. Rosecrans to San Fernando

0+00	East prop. Rosecrans, back curb
+01	Clean out for 2'x2'x2' con. Storm Drain
+25	℄ Rosecrans G.V. 3' Rt.
+37	Sewer M.H. 27' Rt.
+50	West prop. Rosecrans, back curb, G.V. 3' Rt.
+60	E. edge 3'x3' catch basin. Pro. line runs into storm drain 6" from N. edge
3+49.81	E. prop line of San Elijo
+53	F.H. 15' Lt
+69	G.V. 6' Rt
3+74.81	℄ San Elijo
+89.5	West curb line



Lawrence St Cont.

6+99.86	E. prop. line San Fernando
7+00	G.V. 2.5' Rt.
7+24.86	℄ San Fernando
+25	Sewer M.H. 25' Rt.
+39	W. curb line
7+99.86	W. prop. line



Profile & Water on Lawrence, Rosecranes to San Fernando

		33.60	NE B.P. Rosecranes & Kellogg	
	6.26 39.86			
		5.15 34.71		
	13.25 47.96			
0+00	13.2	34.76	13.1	E. prop Rosecranes
+25	12.1	35.86	12.2	& Rosecranes
+37	11.95	36.01		Sewer M.H. 17.75 rim to F.L.
+50	11.9	36.06	11.9	
+60	11.0	36.96	11.0	
1+00	8.3	39.66	8.0	
+50	4.2	43.76	3.9	
TP.	1.19	46.77		
	12.76 52.53			
2+00	11.7	47.83	11.4	
+05	11.0	48.53	10.9	E. edge con. drive way
+15	10.4	49.13	10.3	W " " " "
+50	7.5	52.03	7.3	E. edge con. " "

Profile Lawrence St. Cont.

		59.53					
2+60			6.7		52.83	6.4	W. edge con. drive way.
3+00			3.5		56.03	3.2	
T.P.			0.49	59.04			
	12.19	71.23					
3+50			11.2		60.03	10.9	
+59			11.0		60.23	10.6	E. curb line San Elijo
+74			10.33		60.90		Sewer M.H. 15.03 rod to C.L.
+89			10.3		60.93	10.0	We. curb line San Elijo
4+00			10.0		61.23	9.6	
+50			5.6		65.63	5.3	
T.P.			2.38	68.85			
	13.00	81.85					
5+00			11.9		69.95	11.6	
+50			7.5		74.35	7.2	
6+00			3.1		78.75	2.8	
T.P.			0.45	81.40			
	11.60	93.00					

Profile of Lawrence St

93.00

6+50	9.8	83.20	
7+00	5.4	87.6	
+25	4.1	88.9	
+25	4.45	88.55	
7+39	4.0	89.0	
+50	2.8	90.2	
T.P.	4.04	88.96	
0.86	89.82		
T.P.	8.90	80.92	
1.23	82.15		
	11.62	70.53	
0.35	70.88		
	10.27	60.61	
3.95	69.06		
	9.42	59.64	
	59.65		

Cont.

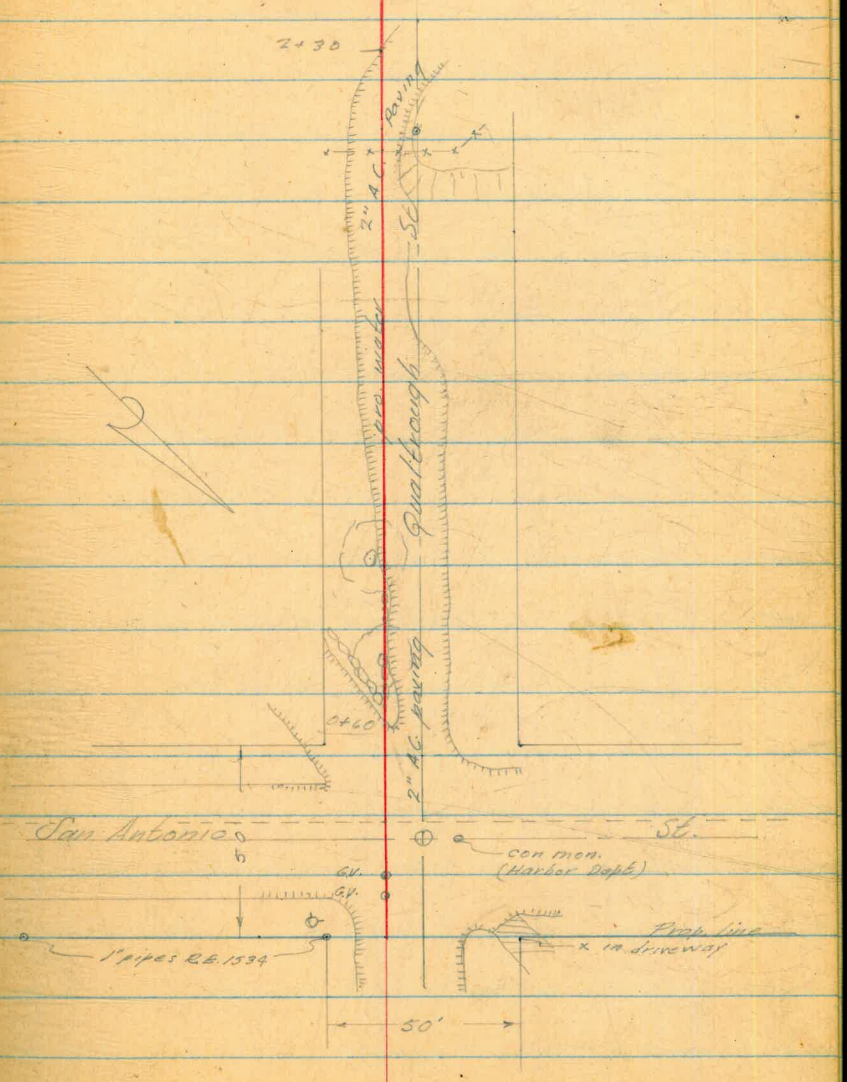
9.4	
5.1	
9.1	℄ San Fernando
	Sewer MH. 8.95 rod to ℄
3.7	W. curb line
2.7	W. prop. San Fernando
	℄ & ℄ Lawrence & San Fern.

BP. cor Kellogg & San Elijo.

Werb
Kemp
Holahan 5-21-54

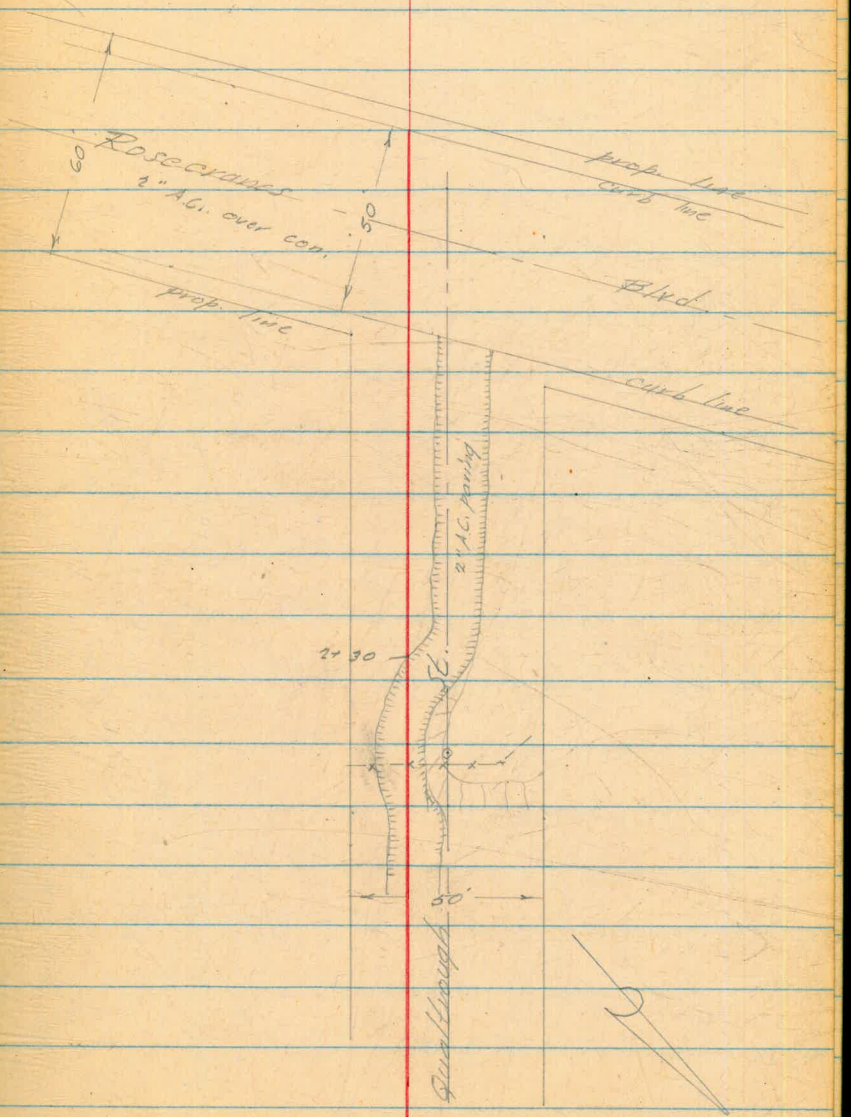
Profile of Qualtrough, Rosecrans to San Antonio

2+30	2" AC. paving crosses & water
2+08	Wood barricade
1+00	12" tree 2' Lt.
+70	10" tree on line
+60	rock flower bed on line
+40	W. curb line
+29	℄ 24" trench, 3" con. covering
+25	Sewer M.H.
+16	G.V. Existing line on San Antonio
+10	E. curb line & G.V.
0+08	F.H. 30' Lt.
0+00	East prop. line of San Antonio



Profile at Qualbrough Court

3+63	W. prop. line
3+53	W. curb face
3+03	E. curb face
2+30	A.C. paving crosses water line
2+11	P.O.T. & Qualbrough



Profile & Proposed Water Main

		14.17	
	2.86	14.03	
T.P.		11.00	3.03
	3.51	6.54	
T.P.		5.72	0.82
	13.34	19.16	
0+00		13.7	.46
+10		14.3	-.14
+23		13.3	.86
+25		13.26	.90
+29		13.3	.86
+40		12.9	1.26
+50		12.0	2.16
+60		11.2	2.96
1+00		0.9	13.26
T.P.		0.50	13.66
	13.18	26.84	

Quantrough, Rosecrans to San Antonio

S.W. B.P. San Antonio & Owens St.

Harbor Dept. Brass Mon. 3' No. & & at San Antonio

E. prop. line San Antonio

E. curb line " "

℄ San Antonio

Sewer M.H.

℄ 3" con. filled 24" ditch, assumed H.P. Navy fuel line

W. curb line

Profile of Quantrough — Cont.

	26.84		
1+92		5.4	21.44
+50		4.3	22.54
T.P.		0.11	26.73
	12.93	39.66	
1+75		9.9	29.76
2+00		1.9	37.76
T.P.		0.23	39.43
	13.14	52.57	
2+17		10.3	42.27
+50		4.2	48.37
T.P.		0.29	52.28
	13.27	65.55	
2+75		10.4	55.15
3+00		4.1	61.45
+03		4.1	61.45
+30		3.2	62.35

E. curb Roscoe Blvd.

High point in crown, Roscoe

Profile of Quantrough

65.55

T.P.		2.36	63.19
	5.44	68.63	
T.P.		4.64	63.99
	0.62	64.61	
T.P.		12.28	52.33
	2.30	54.63	
T.P.		6.64	47.99

Cont.

S.W. I.S. tag 2201. Top of curb

S.E. B.P. Rosecranes & Owens El 48.07

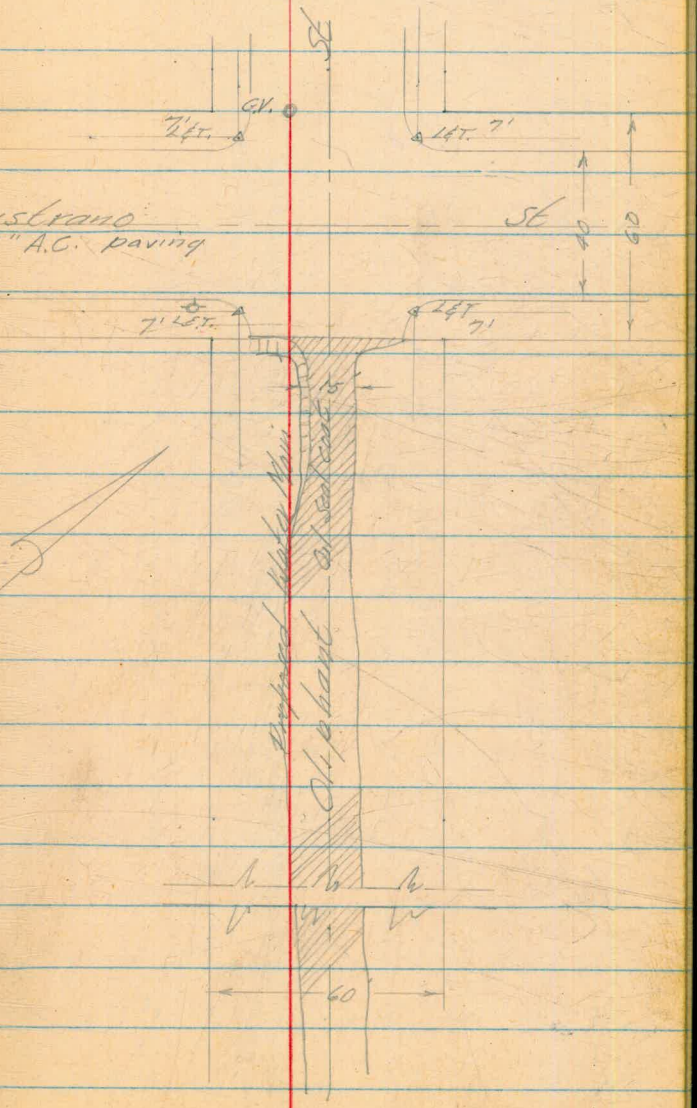
Werk
Kemp
Holaham

5-24-54

Profile & Water Olphant St.

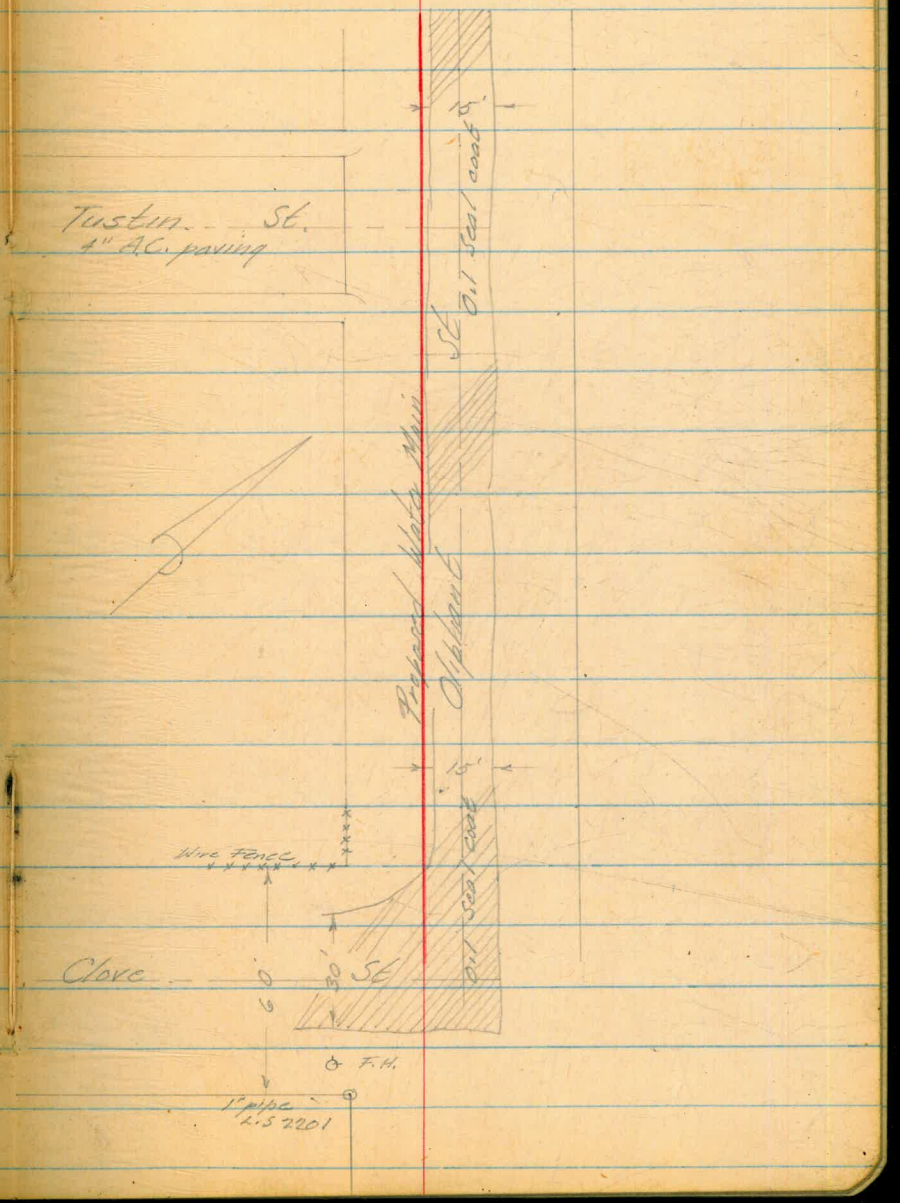
0+00	W. prop. line of Capistrano
+10	W. curb line
+50	E. " "
+60	E. edge 4" A.C. paving
+66	Toe of 4' bank (flower bed)
+77	Top of " " "

Capistrano to Clove



Profile of Oliphant Cont

3+27	W. curb line Tustin St.
3+45	℄ Tustin
3+63	E. curb line
6+27	Wire fence line W. prop. Clove
6+80	F.H. 12' So. of Sa. prop Oliphant
6+87	E. prop. line Clove



Profile of Proposed Water on Alipharta, Capistrano to Clove

		129.21	
	0.16	129.37	
		12.10	117.27
	3.42	120.69	
0+00		6.7	113.99
+10		6.4	114.29
+50		4.9	115.79
+60		4.6	116.09
+66			
+70			
T.P.		0.84	119.85
	2.87	122.72	
1+00		0.5	122.22
+50		+ 0.3	123.02
2+00		1.7	121.02
+50		6.7	116.02

N.W. B.M. Capistrano & Macaulay

W. prop. Capistrano

W. curb line Capistrano

E. " " "

E. edge 6" A.C. paving

$\frac{4.3}{10}$ LC. $\frac{4.3}{5}$ $\frac{5}{3.8}$ $\frac{0.4}{5}$ RC

$\frac{3.9}{5}$ $\frac{3.9}{2}$ $\frac{0.5}{0}$ $\frac{0.0}{6}$

Hand level

Profile of Oliphant Cont.

	122.72		
T.P.		12.36	110.36
	0.67	111.03	
3+00		2.2	108.83
+50		9.0	102.03
T.P.		12.89	98.14
	0.40	98.54	
4+00		0.3	98.24
+50		6.0	92.54
5+00		8.8	89.74
+50		9.3	89.24
6+00		8.3	90.24
T.P.		10.94	87.60
	7.82	95.42	
6+50		8.2	87.22
+80		6.8	88.62
+87		7.8	87.62

E. prop. line of Clove

Olphant, Capistrano to Clove Cont.

	95.42		
T.P.		2.17	93.25
	12.91	106.16	
T.P.		0.11	106.05
	12.81	118.86	
T.P.		0.21	118.65
	13.22	131.87	
T.P.		0.13	131.74
	12.38	144.12	
T.P.		0.13	143.99
	4.35	148.34	
T.P.		11.94	136.40
	0.12	136.52	
		7.35	129.17
			129.21

Top S.W. F.H. Olphant & Clove

N.W. BP. Capistrano & Macauly

Wark
Kemp
Holahan

5-20-54

Profile & Proposed Water, Evergreen — Lowell to Newell

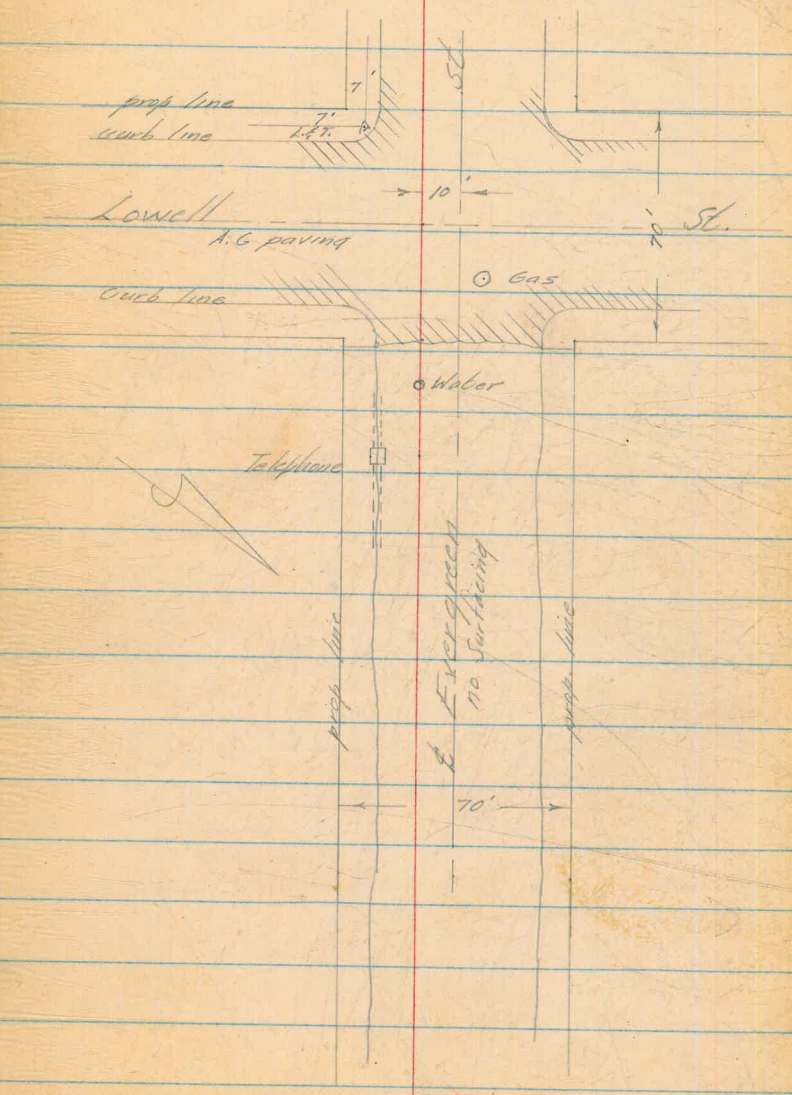
		25.30	S.W. B.P. Lowell & Evergreen
	6.19	31.49	
0+00	5.3	26.19	So. prop Lowell
+18	5.3	26.19	So. curb line Lowell
+30	4.9	26.59	℄ Lowell
+50	5.3	26.19	
+51	5.3	26.19	No. curb line Lowell
+91	5.03	26.46	Telephone M.H.
1+00	5.1	26.39	
+50	5.0	26.49	
2+00	4.8	26.69	
+50	4.2	27.29	
+84	3.7	27.79	So. edge paving Macauly
+95	3.5	27.99	℄ Macauly
3+00	3.6	27.89	
+06	3.8	27.69	No edge paving Macauly
T.P.	3.26	28.23	
	5.15	33.38	

Profile of Evergreen Cont.

		33.38		
3+15		4.99	28.39	Gas M.H.
+21		5.8	27.58	No. curb line Macauly
+25		5.8	27.58	℄ 4' Storm Drain & Prop. Water
+25		8.52	24.86	Top R.C. 8' Storm Drain.
+50		5.5	27.88	
4+00		4.4	28.98	
+40		2.6	30.78	End pavement 2" A.C. Evergreen St.
+50		1.9	31.58	
T.P.		0.11	33.27	
	11.97	45.24		
5+00		10.2	35.04	
+50		3.3	41.94	
+57		2.6	42.64	So curb line Newell St.
+91		0.9	44.34	No. " " " "
6+00		0.5	44.74	
+10		0.2	45.04	No. prop. Newell
		4.65	40.59	
			40.67	SE. L&T Newell & Evergreen

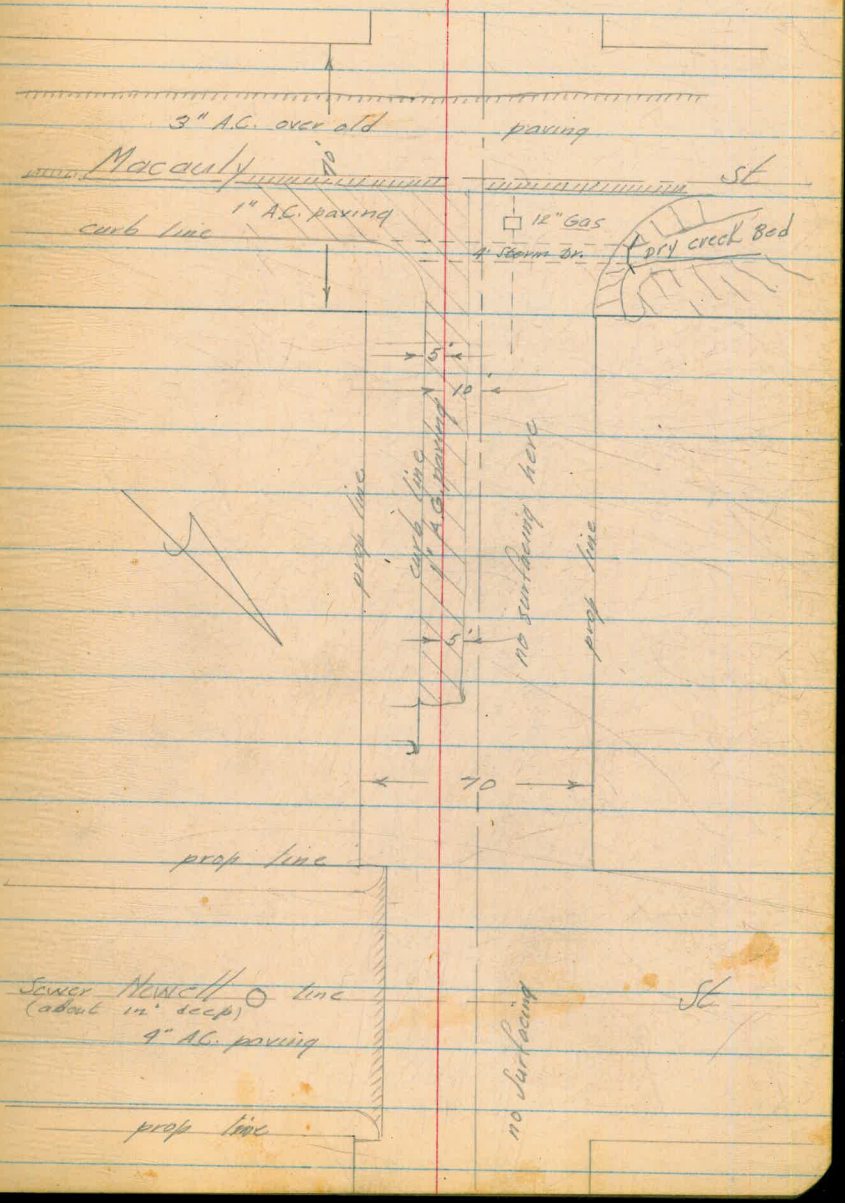
Profile of Evergreen Lowell to Newell

0+00	W. prop line of Lowell St.
+18	W. curb line " "
+35	℄ Lowell St.
+45	Gas M.H. 15' Lt.
+51	E. curb line Lowell St.
+72	G.V., existing 2" line
+91	Telephone M.H. 13.5 Rt. No cables cross street at M.H.
	No curbs or surfacing from Sta 0+55 on Evergreen to Sta 2+84 Macauly



Profile of Evergreen Court

2+84	W. edge of paving, 3" new over old
3+05	℄ of Macaulay
3+06	E. edge of paving
3+15	Gas M.H. 17' Lt, line parell to St.
3+22	E. curb line, no curb on W. side
3+25	℄ 4' Storm Drain
4+90	End of old 1" paving
5+90	W. prop Newell St.
+57	W. curb line
+59	G.V. 22. Lt.
91	E. curb line
6+10	E. prop. line

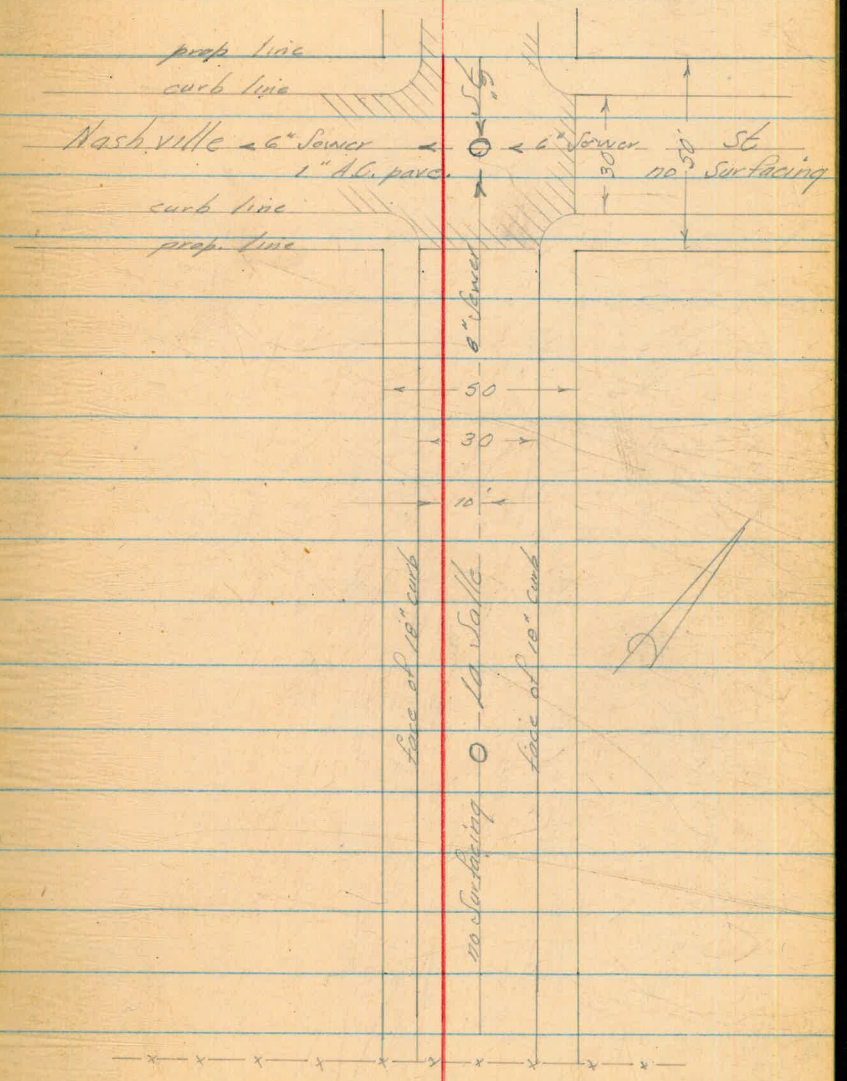


Profile of La Salle St. Nashville

0+00	W. prop. line of Nashville
+10	W. curb line "
+25	8" Sewer M.H. 10 Lt.
+40	E. curb line
3+25	8" Sewer M.H. 10' Lt.
4+53	Fence line, private prop.

Wert
Kemp
Holahan 5-24-54

62



Profile Proposed Water La Salle St. Nashville So. 450'

1.77

N.W. F.H. Nashville & La Salle

	2.52	4.29			Lt side Top curb	Lt side curb	℄ Street	℄ Water	Rt side curbline	Rt side Top curb
0+00			3.8	+ .49		4.3/25	3.9/10	3.8/0	4.1/5	3.6/5
+10			3.7	+ .59		4.6/25	4.0/10	3.7/0	4.0/5	
+25			3.88	+ .41	8" Sewer M.H. 7.9 to flow					
+40			4.4	− .11		4.8/25	4.6/10	4.4/0	4.8/5	
+50			4.7	− .41	4.5/25	5.0/25	4.9/10	4.7/0	5.3/5	4.5/5
1+00			4.6	− .31	4.5/25	5.1/25	4.7/10	4.6/0	4.9/5	4.4/5
+50			4.7	− .41	4.4/25	5.0/25	4.9/10	4.7/0	5.0/5	4.3/5
2+00			4.6	− .31	4.4/25	4.5/25	4.8/10	4.6/0	4.2/5	4.3/5

	4.29			top curb	curb &	Stock	water &	curb	top curb
2+50	4.4	−.11		4.3/25	4.8/25	4.5/10	4.4/5	4.5/5	4.7/5
3+00	4.2	+.09		4.0/25	4.6/25	4.3/10	4.2/5	4.2/5	4.0/5
+25	3.88			3" Sewer M.H. 6.5 to flow					
+50	4.1	+.19		3.9/25	4.4/25	4.1/10	4.1/5	4.5/5	4.0/5
4+00	4.2	+.09		3.8/25	4.3/25	4.3/10	4.2/5	4.7/5	3.9/5
+53	3.5	+.79			3.7/25	3.7/10	3.5/5	3.6/5	/5
T.P.	2.52	1.77		B.M. on F.H.					

Blk 2
Alley E of Menlo
Nrt Polk
5 stks for 6" AC Main + Meters

West
Williams
Varontakis
Kellhofer

7/2/03

	0.55	349.37		348.82	TBM Top FH	NE cor. Menlo + Polk
	8.20	354.76	2.81	346.56		
0+80		3.2	351.6	347.6	C4 0	Begin Work
1+00		3.3	351.5	347.2	C4 3	
+50		3.7	351.1	346.5	C4 6	
+49		3.9	350.9	350.4	CO 5	WM W
+59		3.9	350.9	350.3	CO 6	WM W
2+00		4.3	350.5	346.0	C4 5	
2+00		4.7	350.1	349.8	CO 3	WMW
+11		4.5	350.3	349.9	CO 4	WME
+48		4.9	349.9	349.2	CO 7	WME
2+50		4.9	349.9	345.4	C4 5	
+50		5.2	349.6	349.0	CO 6	WM W
3+00		6.0	348.8	344.6	C4 2	
+09		6.2	348.6	348.2	CO 4	WME
+21		6.8	348.0	347.6	CO 4	WM W
+41		7.0	347.8	347.3	CO 5	WM W
+00		6.3	348.5	343.7	C4 8	

BLK 2

E. OF MENLO
N. OF POLK

351.76

WEST
WILLIAMS
VARONFAKIS
KELLHOFER

7/7/54

3+58			6.4	348.4	347.0	C1 4 WME
4+00			8.0	346.8	342.8	C4 0
+04			8.1	346.7	346.2	CO 5 WME
+08			8.1	346.7	346.0	CO 1 WMW
+17			9.5	345.3	345.3	CO 0 WMW
	421	34 9.76	9.21	345.55		
4+50			3.9	345.9	342.0	C3 9
+52			4.0	345.8	345.3	CO 5 WME
5+00			4.4	345.4	341.0	C4 4
+05			4.5	345.3	344.8	CO 5 WME
+19			4.4	345.4	344.7	CO 1 WMW
+36			4.7	345.1	344.7	CO 4 WME
+50			4.6	345.2	340.6	→ 4 6
+64			5.2	344.6	344.6	CO 0 WMW
+87			5.3	344.5	344.4	CO 1 WME
6+00			5.2	344.6	340.4	C4 2
+21			5.1	344.7	344.3	CO 4 WMW
+37			5.4	344.4	344.0	CO 4 WME
+50			5.6	344.2	340.0	C4 2
+55			6.0	443.8	340.0	C3 8 End of work
	652	349.90	6.38	343.38		
			1.04	348.86	~348.80	

Mission St
Madison to Texas

WEST
WILLIAMS
VARONFAKIS
KELLHOFER

9/20/54
HOT

	6.87	349.15		342.28	SEBP Madison + Louisiana
0+10			5.8	343.4 339.4	C4 0 Begin Work
+50			5.4	343.8 339.6	C4 2
1+00			5.1	344.1 340.0	C4 1
+50			4.8	344.4 340.4	C4 0
+57 WMW			5.0	344.2	
2+00			5.0	344.2 340.8	C3 4
+08 WMW			4.5	344.7	
+50			5.3	343.9 340.4	C3 5
+50 WMW			4.3	344.9	
+90 WMW			4.2	345.0	
3+00			5.5	343.7 340.2	C3 5
	3.34	347.27	5.22	343.93	
+30			3.8	343.5 340.1	C3 4
+40 45 EC 42			3.9	343.4 340.0	C3 4
+50			3.9	343.4 340.0	C3 4
+75			4.2	343.1 339.4	C3 1
4+00			3.3	344.0 340.6	C3 4
+09 02 X			3.3	344.0 340.5	C3 5

347.27

4+27.07 Tcc		3.3	344.0 340.4	C3 6
+50		3.4	343.9 340.2	C3 1
5+00		3.9	343.4 339.8	C3 6
+23.5 End Work		4.1	343.2 339.6	C3 6
0+05		3.2	344.1 340.2	C3 9
+37.5		5.3	342.0 338.6	C3 4
+62.5		9.1	338.2 333.4	C4 8
1+04		9.5	337.8 333.2	C4 6
	3.48 348.31	2.44	344.83	
		6.01	342.30 =	342.28

PROPOSED DRAIN LINE FROM SAND TRAP AT 49TH & IMPERIAL TO CHOLLA'S CHANNEL

11+80 Edge of Channel
Δ 51°53' RT.

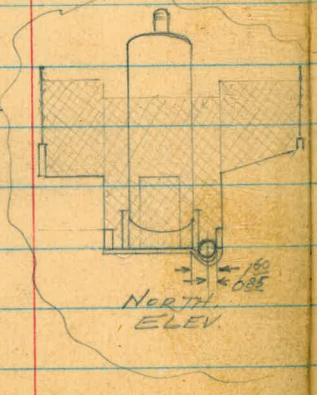
9+81.10 P.I. Nly prop. line Nogal St.

2+30.40 P.I. Δ 52°30'15" LT.

1+08.23 End Conc Apron

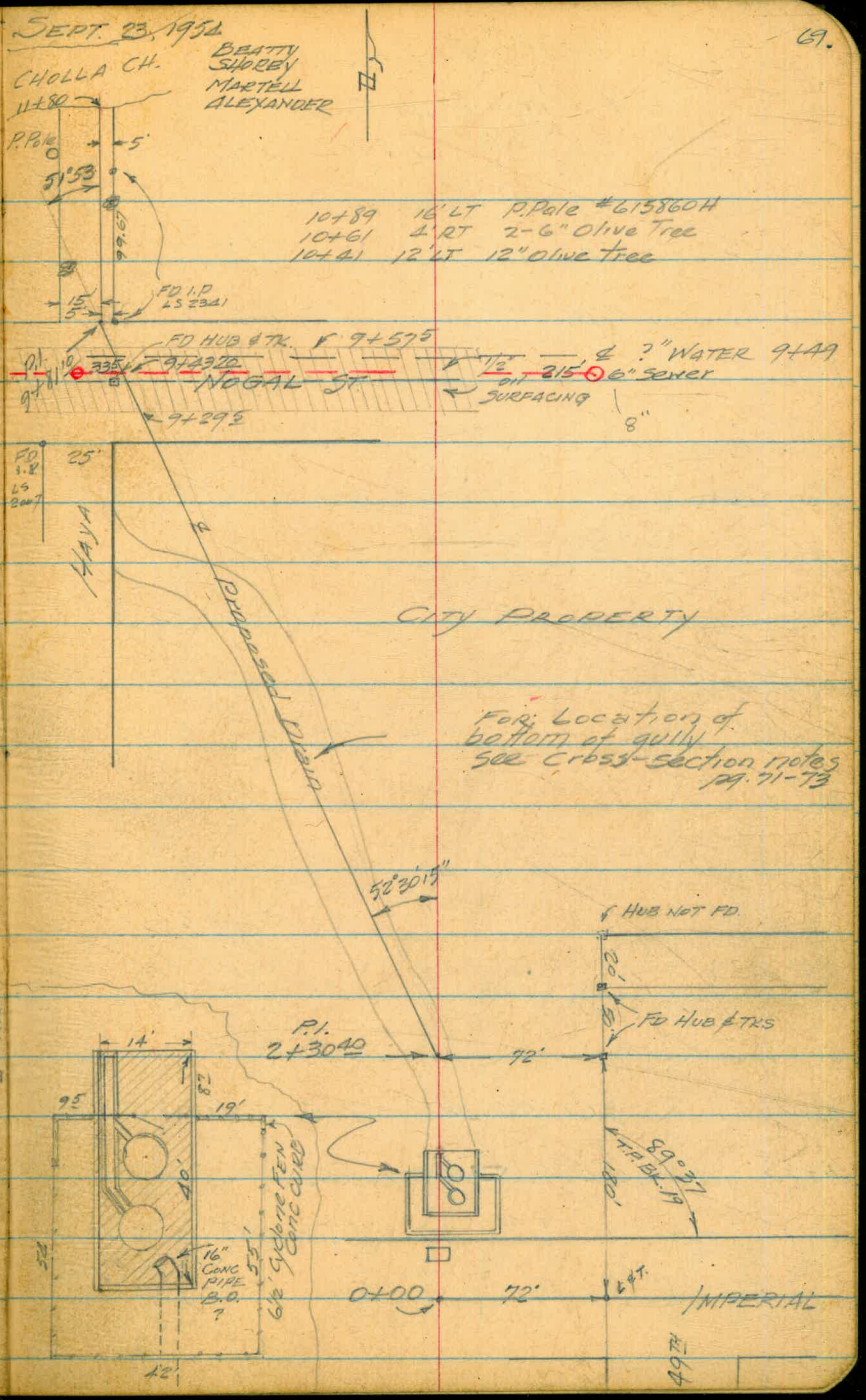
1+06.63 End of 8" Steel drain pipe in Conc. ditch.

0+00 ℄ Imperial



SEPT. 23, 1952

BEATTY
SHOREY
MARTELL
ALEXANDER



For Location of bottom of gully see Crb53-Section notes pg. 71-73

49th & Imperial
& Profile proposed DRAIN From SAND TRAP

BM		0.44	185.30		184.86
"		0.79	172.86	13.23	172.07
"		0.12	159.72	13.26	159.60
"		3.63	150.82	12.53	147.19
SET TBM				4.59	146.23
0+00	& IMPERIAL AVE on A.C. Pavt.			4.58	146.24
0+17	Edge A.C. Pavt			5.08	145.74
0+33	Edge Conc. Val Cham			5.33	145.49
0+385	Edge " " "			5.25	145.54
0+41				4.5	146.3
0+48				4.5	146.3
0+56				8.7	142.1
0+67.5 / 0+68	on Conc Curb			11.91	138.91
0+68	Conc			13.33	137.49
"		3.67	142.34	12.15	138.67
0+83	Edge Conc ⌓ ditch			5.05	145.77?
0+84	Bottom " " "			5.50	145.?
1+08.23	" " " "			5.98	

137.3
136.8
136.4

NW Cor Val. Chamb 0+39

138.3 136.9 136.4 136.9 136.9 138.3 138.3 138.3
4.04 5.47 5.98 5.47 5.47 4.03 4.03 4.03
0.85 0.85 0.8 1.4 1.4 1.2 1.42

49th & Imperial Drain Line (Cont.d.)

9/23/54

	142.34			
1+50		5.8	136.5	
1+82		5.2	137.1	
2+00		8.7	133.6	
2+12		9.1	133.2	
2+30 ±	P.I	5.5	136.8	
2+50		8.2	134.1	
2+54		8.1	134.2	
2+67		10.3	132.0	
2+80		9.6	132.7	
2+90		6.6	135.7	
3+00		8.0	134.3	
P.I	2.36	131.67	13.03	129.31
3+33		4.9	126.8	

Left — Right

	139.0	137.0	136.5	136.2	136.8	134.0
	3.3	5.3	5.8	6.1	5.5	8.3
	10	4	℄	℄	15	20
			gully			
	140.2	137.9	137.1	135.3	135.5	138.7
	2.1	4.4	5.2	7.0	6.8	3.6
	10	7.	℄	5	15	19
				gully		
	135.9	133.6	133.6	134.2	134.8	138.3
	6.4	8.7	8.7	8.1	7.5	4.0
	10	5	℄	10	15	25
		gully				
	6.2	9.6	9.1		6.1	
	15	10	℄		10	
		gully				
Split of ℄	7.6	10.1	10.2	8.4	5.5	3.8
	35	30	20	10	℄	10
		gully				
	7.3	10.6	9.2	8.2		7.3
	25	20	10	℄		10
		gully				
Slope of Solid fill dump		0.0	4.6	9.7	9.7	8.4
		10	℄	6	8	15
				( )		
ditto		0.0	8.0	11.1	11.1	9.3
		12	℄	5	7	15
				( )		

49TH Imperial (Cont.d.)

		131.67		
3+50			6.6	125.1
3+96			8.6	123.1
4+00			7.3	124.4
4+18			7.5	124.2
4+50			10.9	120.8
P	2.64	120.96	13.35	118.32
4+68			2.9	118.1
4+90			3.1	117.9
5+00			4.4	116.6
5+15			5.9	115.1
5+35			5.9	115.1
5+50			7.8	113.2
5+67			7.8	113.2
6+00			11.4	109.6
P	3.92	111.77	13.11	107.85
6+32			3.2	108.6
6+46			5.1	106.7
6+50			4.6	107.2
6+60			3.7	108.1

Slope of Solid Fill Dump

2.2/16 5.8/10 6.6/4 6.6/8 4.0/10

gully

6.7/10 7.9/8 8.3/4 9.2/10 8.4/15 6.0/20

9.0/10 10.9/8 13.9/15 13.4/25 10.0/30

1.5/15 3.1/10 4.4/8 6.1/10 6.0/13 1.9/25

4.6/15 6.3/10 7.8/8 8.6/6 8.4/12 4.1/25

9.9/10 11.4/8 11.4/5 10.9/10 8.1/25

2.7/10 4.6/8 5.1/2 5.0/6 2.4/15

49TH & IMPERIAL
(Cont.d.)

			111.77
6+72		5.5	106.3
6+91		8.0	103.8
6+93		8.4	103.4
6+95		8.4	103.4
7+00		8.0	103.8
7+15		8.5	103.3
7+20		9.8	102.0
7+25		10.4	101.4
7+32		8.5	103.3
7+50		8.0	103.8
7+80		8.3	103.5
8+00		10.4	101.4
8+15	edge of gully	12.6	99.2
8+35	" " "	13.0	98.8
8+43		11.3	100.5
8+50		10.9	100.9
8+72		10.3	101.5
8+85		8.1	103.7
9+00		8.8	103.0

5.7 (15) 8.5 (8) 8.7 (4) 8.0 (2) 4.8 (10)

6.2 (10) 8.0 (2) 8.3 (4) 11.6 (12) 11.4 (15) 7.9 (20)

5.8 (20) 10.1 (10) 10.4 (2) 10.7 (5) 13.1 (10) 12.8 (15) 10.3 (20)

9.0 (20) 10.0 (10) 10.9 (2) 13.0 (12) 12.6 (25) 12.4 (35)

℄ gully 65' Left

49TH ℄ Imperial

		111.77		
9+17			9.9	101.9
9+29^5	S/ly Edge	oiled road	12.15	99.62
9+43	℄	" "	12.91	98.86
TP	3.83	102.55	13.05	98.72
9+50	on	oiled road	4.49	98.06
9+57^5	N/ly Edge	oiled road	5.50	97.05
9+63			5.7	96.9
9+64			5.1	97.5
9+81^{10} P.I.			6.9	95.7
		Rim	6.98	95.57
		Inv.	13.81	88.74
10+00			5.5	97.1
10+50			4.5	98.1
11+00			4.1	98.5
11+50			1.3	101.3
TP	6.96	106.32	3.19	99.36

6.2/10 5.7/℄ 3.9/4 0.0/15

(RT. ∢ FWD Tang.) 8.1/10 6.9/℄ 4.4/10 3.6/13 (5' Lt ℄ to prop line)

Rim of Sew. M.H. { 33^5 LT 9+43^5 ∥ ℄ ST.
{ 20' LT. 9+63 at RT. ∢s to ℄

7.5/10 7.2/7 6.7/6 5.5/℄ 4.1/8 0.0/15

6.5/10 4.5/℄ 2.5/8

6.9/10 4.1/℄ 1.0/10

4.5/10 ℄ +3.5/10

49TH & IMPERIAL (Cont.d.)

		106.32			
11+65			3.3	103.0	
11+70			3.3	103.0	
11+78			4.5	101.8	
11+80			5.4	100.9	
11+85			-9.0 12.4	91.9	33.5 LT 215° RT 2
11+91			-8.0 22.4	83.9	
12+06			29.2	77.1	
12+11			31.7	74.6	
12+45	Sly edge	Chalk's Channel & Flow line	34.3	72.0	
Set TBM.	11.83	106.39	11.76	94.56	Nail in pole 16' LT 10+89
TP	13.06	119.45	0.00	106.39	
		Rim	5.60	113.85	Rim SEW MH. 215' LT along U. E. St. 9+432
		Inv.	11.64	107.81	
TP	12.88	131.38	0.95	118.50	
TP	11.38	142.62	0.12	131.24	
TP	10.25	152.07	0.80	141.82	
CK TBM	7.65	153.89	5.83	146.24 = 146.23	NW Cor. Val Chamber 0+39
TP	3.73	149.99	7.63	146.26	
CK TP (WEST)			5.76	144.23 = 144.35	L+00 Gloria & Franklin

MANZANITA DRIVE

Ely End Poppy Place To Wly Terminus

(5) STK.S & GRD.S For 8" A.C. WATER

SEPT. 24, 1954

BEATTY
SHOREY
MARTELL
ALEXANDER

TBM	6.09	289.61		283.52		Nail in Po Pole	
1+22	8"x6" TEE		5.5	284.1	280.2	C39	5.2 C
1+47	BC		5.4	284.2	279.9	C43	5.3 C
1+50			5.4	284.2	279.9	C43	5.3 C
1+75			5.5	284.1	279.6	C45	5.5 C
2+00			5.2	284.4	279.4	C50	5.0 C
2+05	EC (2150 Rdwy EC)		5.1	284.5	279.3	C52	4.8 C
2+50			4.5	285.1	278.9	C62	4.6 C
2+85	45° BEND (Δ = 41°11' LT)		5.1	284.5	278.5	C60	5.1 C
~~3+00~~					~~278.3~~		
3+07 70 BK ~~3+13~~ 3+10 33 AH	45° BEND (Δ = 41°38' LT)		5.6	284.0	278.2	C58	5.6 C
3+25			5.5	284.1	278.0	C61	6.1 C
3+75			7.0	282.6	277.0	C56	7.5 C
4+25	4+50		9.2	280.4	274.8	C56	9.5 C
4+76			9.8	279.8	273.1	C62	4+50 11.1/2
~~4+78~~	End Work		12.3	277.3	271.4	C59	12.3 C
4+88	11) .0.75	278.39	11.97	277.64	= 277.63		
~~4+80~~	Begin Work		1.3	277.1	271.2	C59	1.9 C
5+00			1.7	276.7	270.4	C63	2.5 C
5+50			4.9	273.5	268.4	C51	4.7 C
5+66	B.C.		6.4	272.0	267.2	C45	5.6 C

9/24/54

MANZANITA DR. (Cont.d)

5+75		278.39	6.8	271.6	267.0	C46	5+75 60/C
6+00			8.2	270.2	265.7	C45	7.3/C
6+25			8.8	269.6	264.3	C53	6+25 8.3/C
6+50			10.1	268.3	263.0	C52	9.4/C
6+75			10.5	267.9	261.7	C62	6+75 10.2
7+00			11.0	267.4	260.4	C70	11.1/C
7+05.82	EC (Also Rdwy BC)		11.0	267.4	266.1	C63	11.4/C
7+50			12.7	265.7	257.5	C82	13.3/C
TP		0.62 265.69	13.32	265.07			
7+75			2.7	263.0	256.0	C71	2.9/C
8+00			5.4	260.3	254.2	C61	5.5/C
8+50			9.7	256.0	250.6	C54	10.2/C
TP		8.28 261.30	12.67	253.02			
9+00			9.8	251.5	247.0	C45	10.0/C
9+12	12"x8" Tee		10.5	250.8	245.6	C52	10.7/C
CR TOM	Nail in A Pole		0.22	261.08	261.07		

WATER METERS

1+47	Nly.	289.6	4.4	285.2	284.6	C06 ✓	4028 Manzanita
2+87.5	Nwly	"	4.5	285.1	282.9	C12	4018
3+70	Nwly		7.7	281.9	281.2	C05	4008
3+79	SEly		7.1	282.5	281.1	C14	4007
4+10	Nwly		9.2	280.4	279.5	C09 ✓	4004
4+25	SEly No Exist Met		9.1	280.5	278.2	C23	? Poppy Drive
4+47			10.7	278.9	277.3	~~C6~~ C16	3978

650 A.O

		WAT					
4+96	NWly	278 39	1.0	277.4	275.3	C2!	3970 Manzanita
5+95	NWly		6.2	272.2	270.4	C18	3948
					265.3	C20	
6+75	SEly		11.1	267.3	263.6	C32	3945
~~7+68~~ 6+95	NWly		10.1	268.3	264.8	C35	3944
~~7+71~~ 7+73	NWly	265 69	2.4	263.3	260.8	C25	3934
8+17	NWly		6.2	259.5	258.0	C15	3928
8+53	NWly		9.9	255.8	255.5	C03	3912
8+76	SEly		12.5	253.2	253.3	Fo!	No Address

Catalina Standpipe
Drain line
Elevs at M.H

4+96	BM	3.78	38694	383.16
5+95				
6+75	℄ Bottom of Manhole 9.60			
~~6+93~~				
~~7+68~~	Lip of Bell of C.I. Drain 9.50			
~~7+73~~				
~~7+71~~	# of			
8+17				
8+53				
8+76				

	269.80		
109+50	4.6	LT 4.9/10 5.6/2	RT 4.0/2 1.7/10
+57	5.9		
+67	7.7		
+75	8.7		
+90	11.2		
110+00	12.9	12.6/10 13.6/1	11.4/4 10.4/10
0.33	256.88 ✓	13.25	256.55 ✓
110+11	1.9		
+18	3.6		
0.57	244.53 ✓	12.92	243.96 ✓
0.28	231.97 ✓	12.84	231.69 ✓
0.18	218.83 ✓	13.32	218.65 ✓
0.03	205.71 ✓	13.15	205.68 ✓
0.08	192.86 ✓	12.93	192.78 ✓
0.36	180.12 ✓	13.10	179.76 ✓
0.31	167.23 ✓	13.20	166.92 ✓
0.71	154.76 ✓	13.18	154.05 ✓
0.14	142.34 ✓	12.56	142.20 ✓
0.52	129.61 ✓	13.25	129.09 ✓
0.85	117.50 ✓	12.96	116.65 ✓
8.64	116.80 ✓	9.34	108.16 ✓
4.92	120.91 ✓	0.81	115.99 ✓
1.82	113.69	9.04	111.87
			112.13
			108.26
		5.43	108.52

420.59
13.40
407.19
7.96
415.15

SEBP

32nd
& Adams

385.80

34th on Swlk
385.35

	319.29		✓
1.04	307.36 ✓	12.97	306.32
105+00	4.2	LT 4.4/10 4.6/3	RT 3.3/10
+20	5.5		
+50	7.3	7.6/10 7.7/5	6.4/10
+75	8.5		
106+00	10.0	10.3/10 10.7/4	9.2/10
+25	11.5		
+50	12.7	13.1/10	11.9/10
1.08	295.21 ✓	13.23	294.13 ✓
107+00	3.1	LT 3.2/10	RT 2.2/10
+18	4.0		
+50	6.0	6.2/10	4.9/10
+83	8.2		
108+00	9.4	9.5/10 9.9/2	8.8/2 8.1/10
+17	10.3		
108+43.21 △ PT.	12.9		
0.35	282.61 ✓	12.95	282.26 ✓
108+50	0.9	LT 2.0/10 2.4/3	RT 0.5/2 0.8/10
+70	2.9		
+90	6.2		
109+00	7.9	9.1/10 9.2/3	7.4/1 5.6/10
+20	12.0		✓
0.24	269.80 ✓	13.05	269.56

(CONT'D OVER)

5.90
3.25
9.15

TBM S.E. COR.
GASCO, M.H.

0.28	440.26 ✓		439.98 ✓
TP 0.00	428.06	12.20	428.06 ✓
S. EDGE M.H. 68+43		→ 3.40	424.66
TP 4.57	420.53	12.04	416.02 ✓
7.91	415.15	13.35	407.24 ✓
CK. TBM ON AVA. M.H		4.20	410.95 = 411.18

381.04

2.06	369.86 ✓		13.24	367.80 ✓
100+40	0.8	LT		RT
+50	2.3	3.7 3.2 (10 3)		0.2 (10)
101+00	10.1	11.8 11.5 (10 5)		7.7 (10)
0.87	357.37 ✓		13.34	356.52 ✓
101+17	0.6	LT		RT
+50	6.4	8.0 7.6 (10 6)		4.1 (10)
+63	8.4			
0.72	345.01 ✓		13.10	344.29 ✓
102+00	2.0	LT 5.4 3.0 (10 4)		RT 0.1 (10)
+10	3.3			
+50	7.7	11.0 10.5 (10 3)		8.3 (10)
+71	12.1			
0.23	332.00 ✓		13.24	331.77 ✓
102+90	2.6	LT		RT
103+00	4.3	5.1 (10)		2.8 (10)
+13	6.5			
+50	11.6	12.4 10.8 10.0 (10 3 10)		
0.57	319.29 ✓		13.28	318.72 ✓
103+75	2.4	LT		RT
+90	4.1			
104+00	5.4	6.3 6.0 (10 3)		4.4 3.4 (3 10)
+15	7.5			
+50	11.3	12.8 11.8 (10 3)		9.6 (10)

Q PROFILE OF PROPOSED MURRAY PIPELINE

2.97	414.15			411.18 ✓
5.59	406.71		13.03	401.12 ✓
Ck. BM	M.H. 96+50		3.24	403.47 ✓
				403.52
2.46	405.93 ✓			403.47
96+77.5	P.O.T	4.7	LT	RT
97+00		4.3		
+50		6.0	6.2 5.7 4.9 (10 7 10)	
+90		8.3		
98+00		9.4	9.4 9.3 8.6 (10 6 10)	
98+19.66	P.O.T	11.0		
98+37		12.2		
0.91	393.86 ✓		12.98	392.95 ✓
98+50		1.6	LT 2.0 (10)	RT 1.4 +0.5 (5 10)
+85		4.8		
99+00		6.8	7.3 (10)	6.3 4.4 (4 10)
+35		11.1		
+50		13.1	13.7 (10)	10.9 (10)
0.53	381.04 ✓		13.35	380.51 ✓
99+60		1.0	LT	RT
100+00		6.5	7.3	5.4 4.5 (4 10)

(CONT'D OVER)

.0038 .0038
51 80
190 3040
190
209.0

725
.0057
5075
3625
41325

74.26
.0057
51982
37130
423282

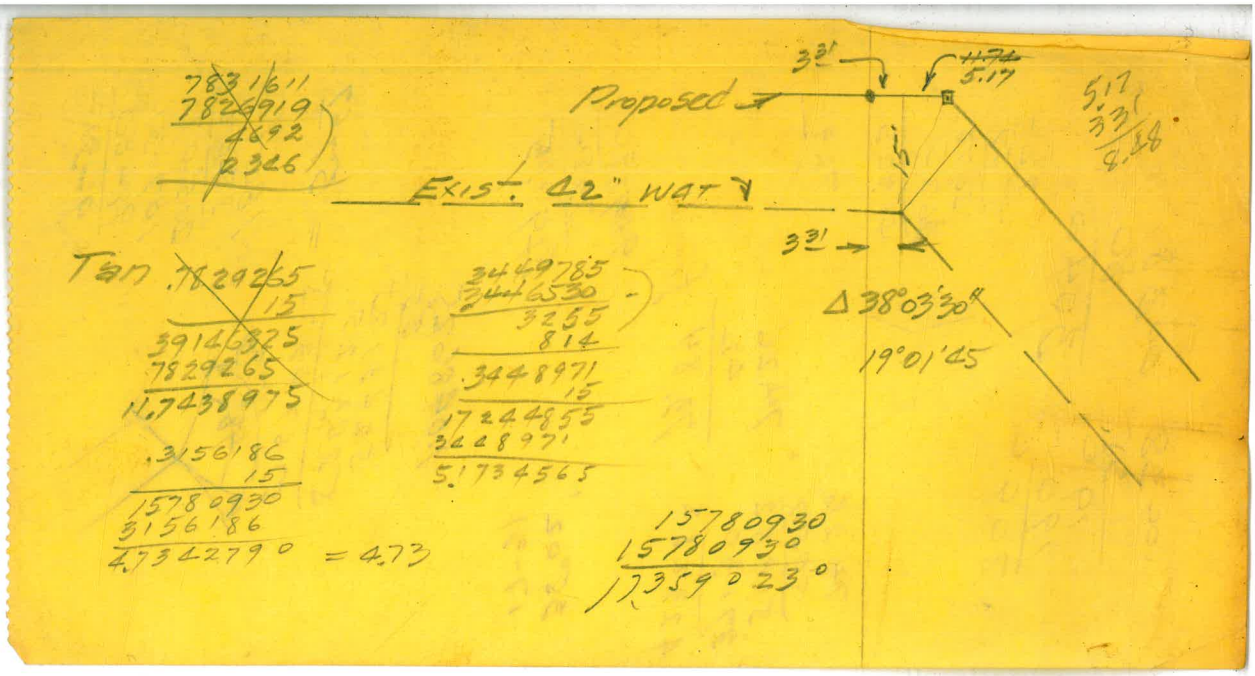
74.26
42
73.84 from

7291
9492.90
73.84
8499.05

35°02'
17-31

1.048625
55
5243125
5243125
57.674375 = 57 67

98°
180-
35-02
215-02
107-31
98-00
9-31-



7831611
7829919
1692
2326

Tan .7829265
15
39146325
7829265
11.7438975

.3156186
15
1578 0930
3156186
4.7342790° = 4.73

3449785
3446530
3255
814

.3448971
15
17244855
3448971
5.1734565

15780930
15780930
17359023°

Please Return to
City of San Diego Water Dept.
Room 903 Civic Center

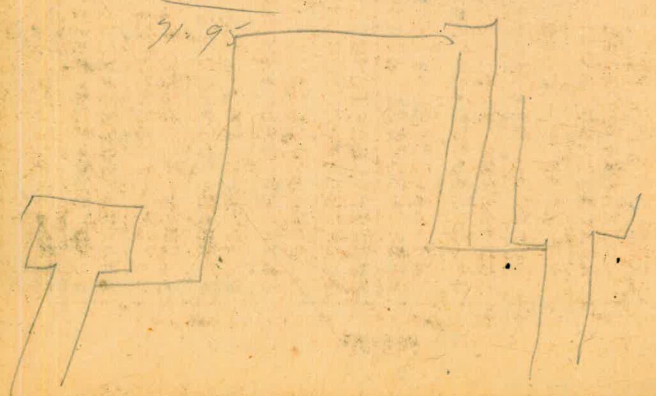
392.99
6.30
386.69

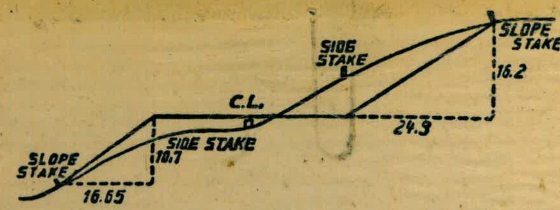
C.30
13.01

Glona & Franklin

4400 ⊢ 144.35

71.20
.75 w of Cap tk
71.95





DISTANCES FROM SIDE STAKES FOR CROSS-SECTIONING.

SLOPE $1\frac{1}{2}$ 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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