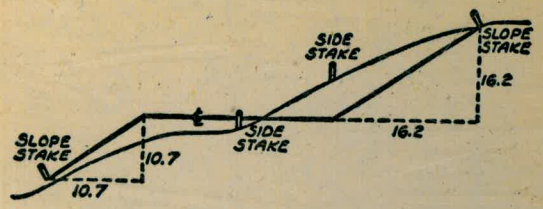


Distances from Side Stakes for Cross-Sectioning

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.

179 60
106 59
73° 01'

IMPROVED TABLES AND INFORMATION

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

INDEX

INDEX

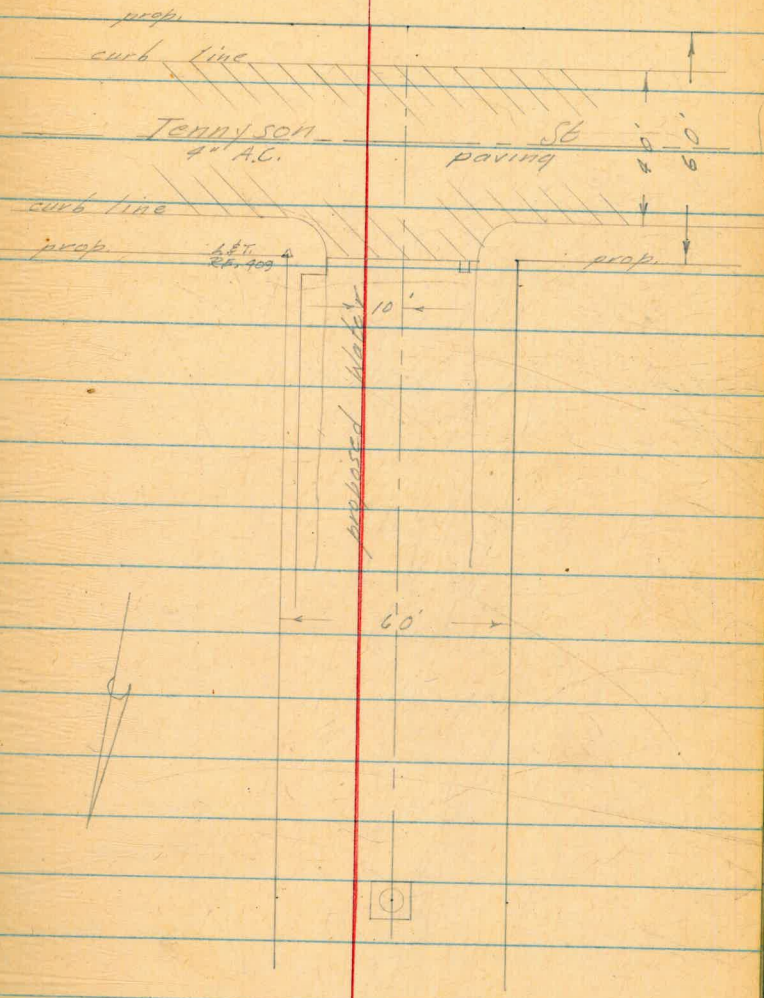
Wert
Kemp
Holahan

1

5-27-54

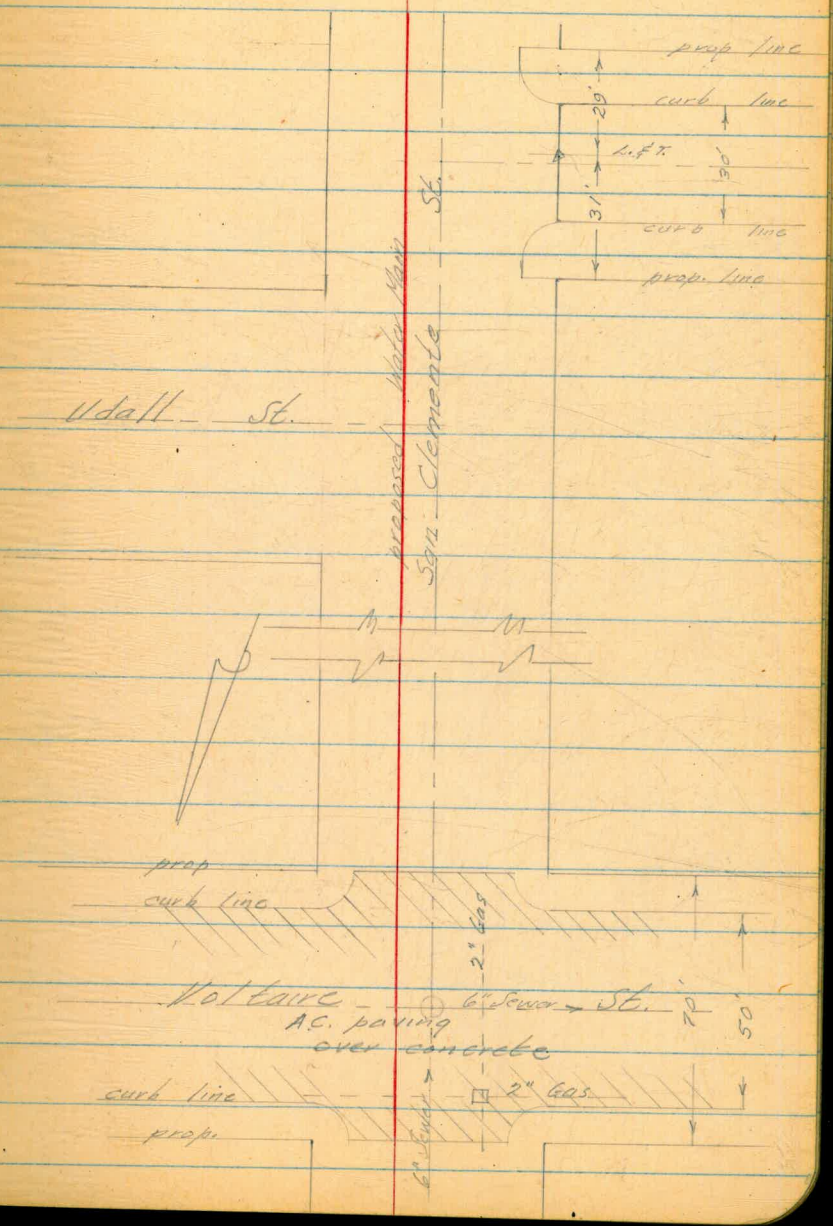
Profile & Proposed Water
San Clemente St, Tennyson to Voltaire

0+00	So. line Tennyson.
+07	F. H. 15' Rt.
+10	So. curb line
+50	No. curb line
+60	Edge 4" A.C. paving
+62	12" service box, (not opened.) assumed to be gas
4+14	Gas & Elec. M.H. 10'x10' Box no visible services



Profile San Clemente Cont.

3+59	℄ Udall St.
4+35	℄ Udall St.
6+71	So. prop. Voltaire
+81	So. curb line
7+06	℄ Voltaire & Sewer M.H. 10' Lt.
+27	4-way 2", Gas M.H., 15' Lt.
+31	curb line
+41	prop. line



Profile of San Clemente

			126.64
	2.46	129.10	
0+00		2.3	126.8
+10		3.0	126.1
+50		3.5	125.6
+60		3.7	125.4
1+00		6.7	122.4
+50		10.2	118.9
T. P.		12.08	117.02
	0.58	117.60	
2+00		3.2	114.4
+50		7.4	110.2
3+00		11.2	106.4
T. P.		13.21	104.39
	2.33	106.72	
3+50			

Cont.

126.64
1.66
128.30
3.4
125.4

W. line, So. 5' line L&D Tennyson

So. prop. Tennyson

So. curb line

No. " "

Nor prop. line Tennyson, edge pavement

$\frac{26}{8}\ \frac{5.4}{}$ $\frac{5.4}{3}$ $\frac{4.2}{0}$ $\frac{3.2}{5}$ 103.5 28

Profile of San Clemente

	106.72		
9+00			
T.P.	11.47	95.25	
	9.36	99.61	
9+07			
9+14	9.24	95.4	Gas & Elect. M.H.
+16			
+50	9.0	90.6	
T.P.	12.31	87.30	
	0.74	88.04	
5+00	7.4	80.6	
+50	7.9	80.1	
6+00	10.9	77.1	
T.P.	13.15	74.89	
	1.51	76.44	

Cont.

					Rt. 98.8
Lt. 10.0 / 9	10.1 / 4	7.4 / 3	7.6 / 0	7.9 / 5	
3.7 / 9	3.7 / 4	1.1 / 3	1.1 / 0	1.9 / 5	97.7
5.1 / 5	4.5 / 0	5.0 / 5			94.6

88.0
2.4
5.6

Profile of San Clemente

76.44

6+50	3.9		72.5
+71	5.0		71.4
+81	5.5		70.9
7+06	4.9		71.5
7+06	5.05	71.4	
+27	5.42		71.0
+31	5.5		70.9
+41	5.6		70.8
	3.06	73.38	

Cont.

So. prop. & edge 4" A.C. paving

So. curb line Voltaire

& Voltaire

Sewer M.H. 12.0 to Pl.

Gas M.H. 2.3 to pipes (4-way, 2")

No. curb line Voltaire

No. prop. line Voltaire

Top T.H. El. 73.62

Circuit closed to original B.M. 0.01 closure

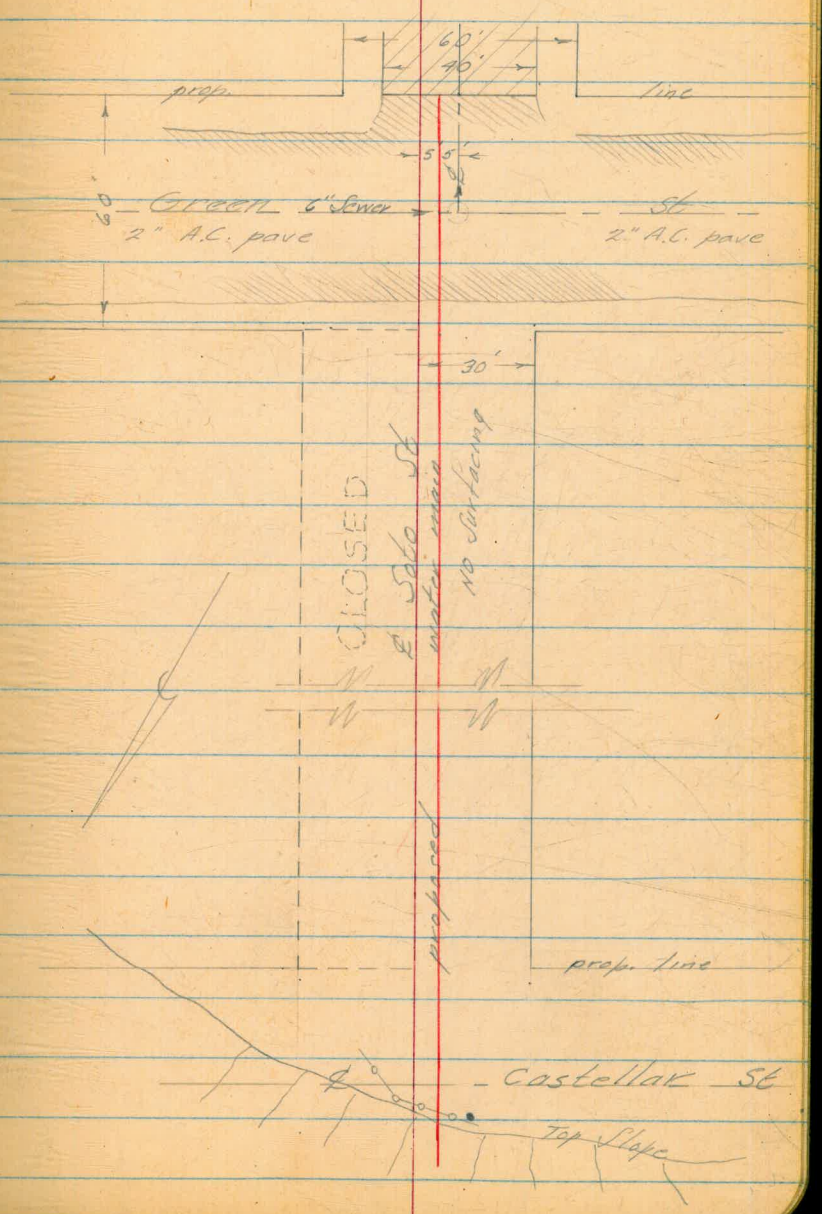
Wert
Kemp
Holaban

6

5-28-53

Profile & Proposed Water on Soto St., Green to Castellar

0+00	So. prop. line of Green St.
+30	℄ Green St. & Sewer M.H.
+56	Edge of 2" A.C. paving.
6+60	So. prop. Castellar
+91	Wooden barricade
7+00	Top of Slope
+10	Random point on slope



Profile Soto St. Green to Castellar St

			33.68
	8.17	41.85	
T.P.		3.49	38.36
	6.14	44.50	
T.P.		0.25	44.25
	12.68	56.93	
T.P.		0.40	56.53
	3.35	59.88	
0+00		1.2	
+30		0.9	
+30		1.18	
+50		1.7	
+56		2.2	
1+00		5.4	
+50		8.0	
2+00		10.7	
T.P.		12.67	47.21
	0.29	47.50	

S.W. B.P. E Tiwanda & Castellar St.

Sa prop. Green St.
& Green St.
Sewer MH rim 5' Ht. 6.5 to flow line

Edge 2" A.C. paving

Profile of Soto St. Cont.

	47.50		
2+50		1.0	
3+00		3.7	
+50		6.1	
4+00		8.1	
+50		10.0	
5+00		11.5	
T.T.		11.53	35.97
	0.54	36.51	
5+50		2.0	
6+00		3.5	
+50		4.9	
+60		4.9	
+91		4.5	
7+00		4.8	
+10		9.4	
T.T.		6.03	30.48
	5.67	36.15	
		2.47	33.67

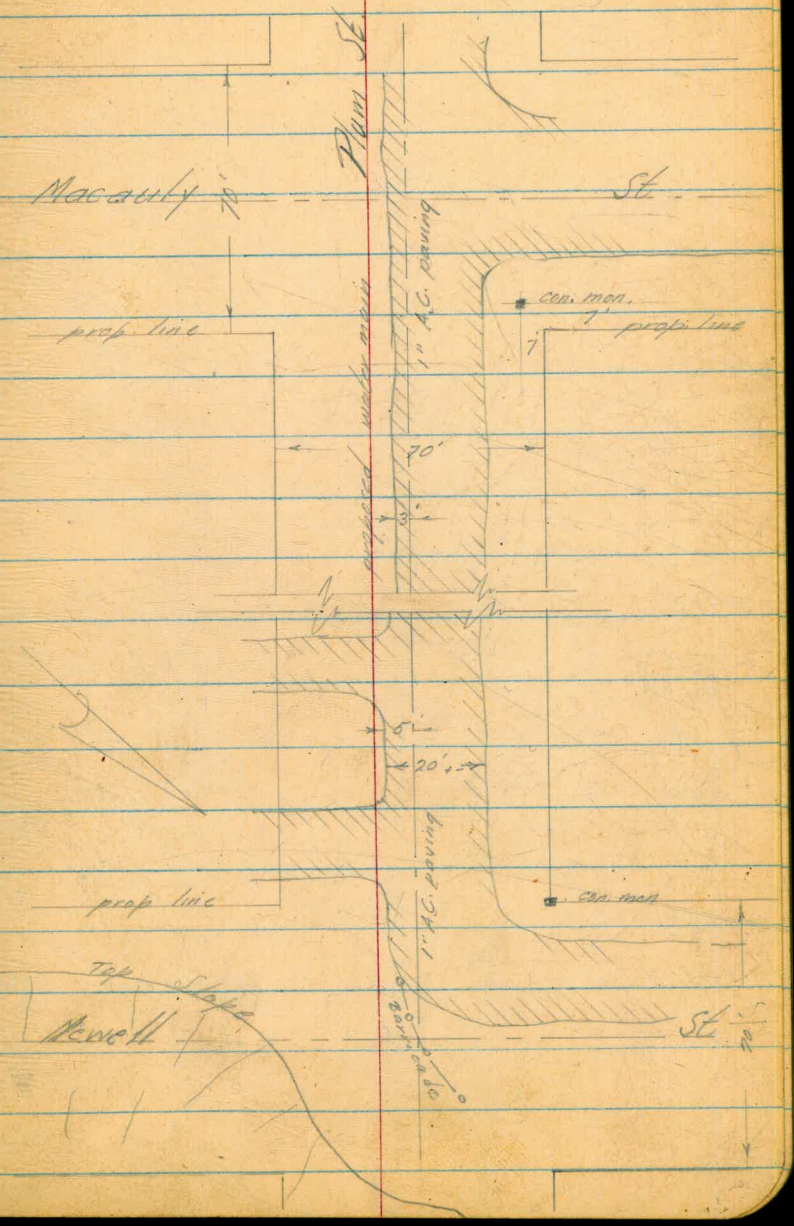
So. prop Castillar

BP. S.W. Elwanda & Castillar = 37.68

Wert
Lemp
Holahan 6-1-54

Profile & Proposed Water on Plum St., Macaulf to Newell

0+00	So. prop. line Macaulf St.
+70	No. " " "
1+96	Edge 1" A.C. drive
2+13	Edge " " "
2+47	Edge 1" A.C. drive
+64	" " " "
2+70	So prop. line Newell



Profile of Plum St. Cont.

			93.25	S.W. T.H. Oliphant & Clove
	11.59	104.84		
T.P.		0.53	104.31	
	10.76	115.07		
T.P.		12.86	102.21	
	0.63	102.84		
T.P.		12.14	90.70	S.W. Con Man Plum & Newell
	10.37	101.07		
0+00		8.0	93.07	So. prop line Macauly St.
+50		2.9	98.17	
1+00		2.3	98.77	
+50		7.1	93.97	
+96		12.3	88.77	So. edge 1" A.C. driveway
2+00		12.7	88.37	
+13		13.1	87.97	No. edge 1" A.C. drive
T.P.		11.23	89.84	
	9.99	99.83		

Profile of Plum St. Cont.

		99.93	
2+97		8.3	86.53
+50		8.5	86.33
+64		9.0	85.83
3+00		11.9	82.93
+25		15.8	79.03
+90		18.8	76.03
T.P.		0.13	94.70
	12.56	107.26	
T.P.		0.12	107.14
	7.86	115.00	
T.P.		6.82	108.18
	2.90	111.08	
T.P.		8.91	102.17
	1.15	103.32	
		10.08	93.24

So. edge 1" A.C. driveway

No. " " " "

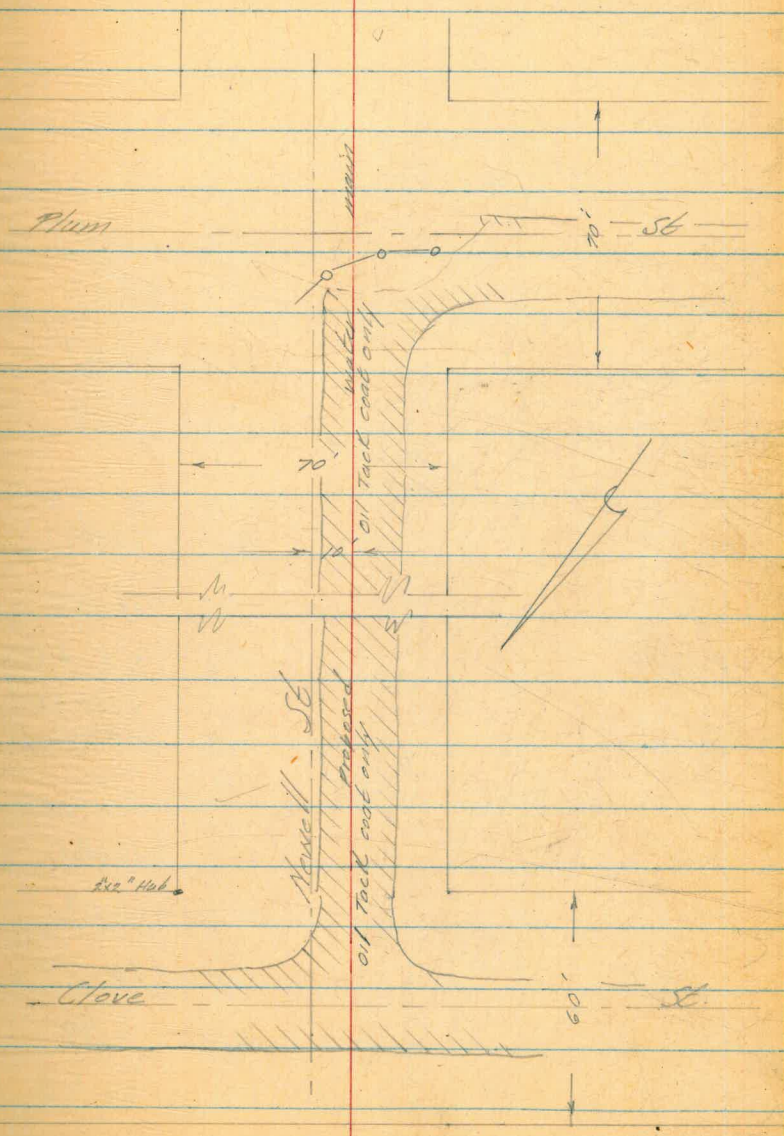
Sob TBM. NE. 2"x2" Hub & tack
Newell & Clove

SW. FH. Oliphant & Clove 93.25

Work
Kemp
Holahan 6-2-54

Profile ℄ Proposed Water on
Newell St, Plum to Clove

0+00	E. prop. line of Plum
+35	℄ Plum
+45	Wooden barricade
+70	W. prop. line of Plum
3+48.40	E/L of Clove
+78.40	℄ of Clove
+93.	W. gutter of Clove
4+08.40	W/L of Clove



Profile of Newell Cont.

		90.70	S.W. common Plum & Newell
	3.47	94.17	
0+00		16.7 77.47	E. prop of Plum St.
+50		5.7 88.47	
1+00		2.5 91.67	
T.P.		0.29 93.88	
	12.43	106.60 ~~106.31~~	
1+50		9.2 97.40	
2+00		5.0 101.60	
+50		0.2 106.40	
T.P.		0.19 106.41 ~~106.12~~	
	9.48	115.89 ~~115.60~~	
3+00		6.2 109.61	
+50		4.7 111.19	
+78.40		5.3 110.59	E. Clove St.
+93.		5.5 110.39	W. gutter of Clove
4+00		4.0 111.89	

Profile of Newell Cont.

115.89

~~115.60~~

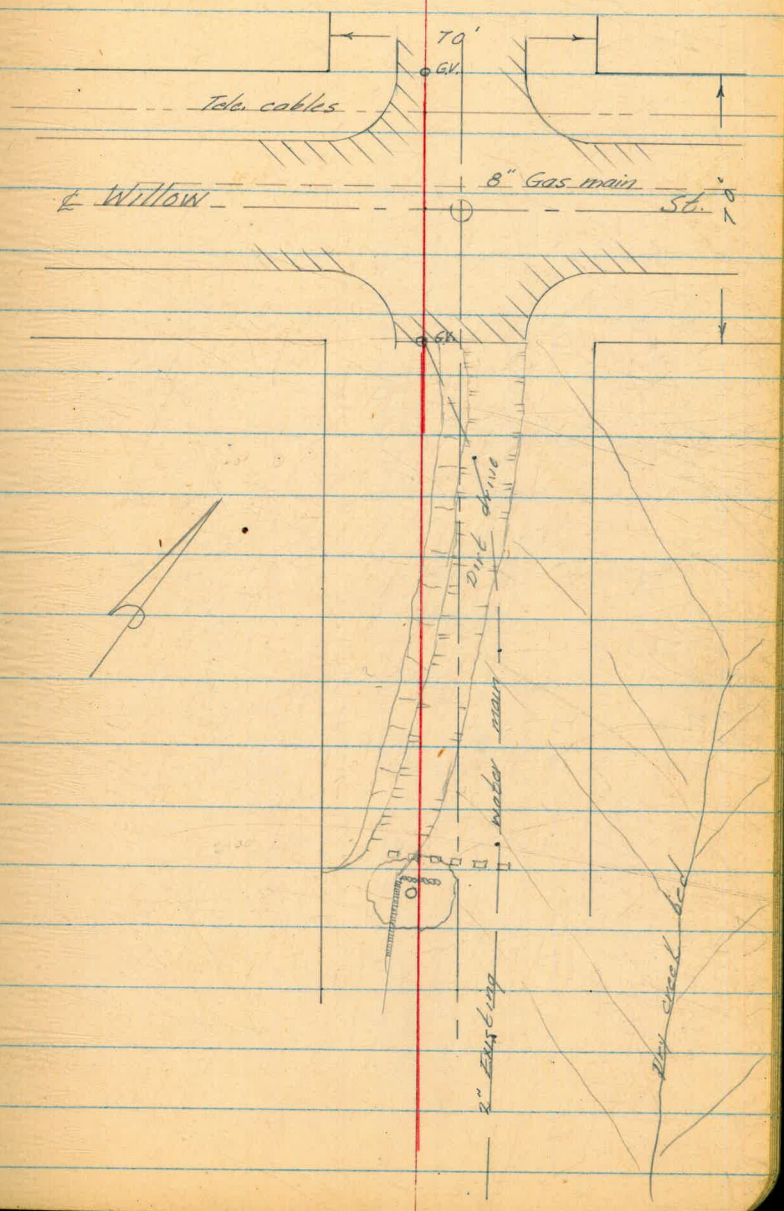
408.40		111.69	W. prop line Clove St
	4.2	108.48	
	7.41	~~108.19~~	2"x2" Hub N.E. cor Clove & Newell

Wort
Kemp
Holahan

6-3-54

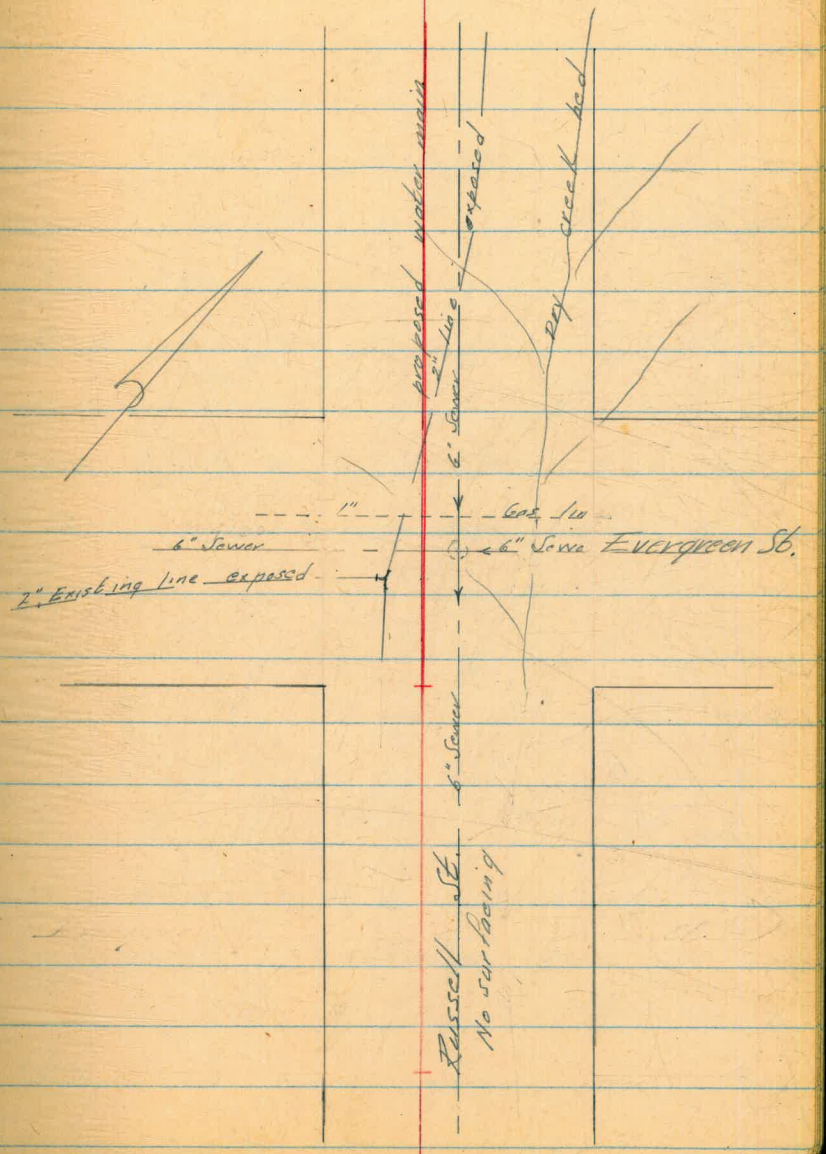
Profile & Proposed Water on Russell St., Willow to Evergreen

0+00	W/L of Willow & C.L. & water
+10	Tele. cable (2-2") cut 10.0 to cable
+18	W curb line
+30	8" Gas main
+35	℄ Willow St. & Sewer M.H.
+52	E curb line
+70	E edge of 16" con. paving
2+10	con. block rip rap stairs
2+20	12" rock wall about 7' high
2+22	14" Gum tree 2' Ø



Profile of Russell St. Cont.

3+70	W/L Evergreen
3+76	Crossing of 2" existing & proposed lines
3+95	1" gas exposed, cut 1.0 over line
4+05	Sewer M.H.
4+12	2" Tee in existing line
4+40	E/L Evergreen



Profile of Russell Cont.

			161.33
	1.95	163.28	
0+00			
+10		2.8	160.5
+30		2.9	160.4
+35			
+35		3.02	160.1
+50		3.0	160.3
+70			
1+00			
+50			
T.P.		12.99	150.29
	2.26	152.55	
2+00			
+10		7.7	144.9

S.W. B.P. Willow & Russell

RL LL

2.5/14 160.8 — 2.7/0 160.6 — 2.8/10 160.5 — 3.2/20 160.1

Tele. conduit

8" gas line

2.4/20 160.9 — 2.7/10 160.6 — 2.9/0 160.4 — 3.0/10 160.3 — 3.2/20 160.1

Sewer M.H. cut 6.5 to flow.

2.9/14 160.4 — 2.9/0 160.4 — 3.1/10 160.0 — 3.3/20 159.

1.3/20 162.0 — 2.9/10 160.4 — 3.0/5 160.3 — 4.6/0 158.7 — 5.5/10 157.8 — 5.2/20 157.1

4.1/20 159.2 — 7.6/8 155.7 — 10.2/5 153.1 — 10.1/0 153.2 — 9.5/15 153.8 — 14.5/25 148.8

+0.9/25 151.7 — 3.3/18 149.3 — 3.5/10 149.1 — 3.1/0 149.5 — 2.9/2 149.7 — 7.6/10 145.0

Profile of Russell Cont

	152.55		
1+20		8.2	144.4
1+20		6.4	146.2
1+25		8.6	144.0
T.P.		12.64	139.91
	1.08	140.99	
2+50			
2+75		10.9	130.1
T.P		10.36	130.63
	0.95	131.58	
3+00			
T.P.		11.99	119.59
	2.46	122.05	
3+50			
3+75		10.1	112.0
T.P.		13.12	108.93
	0.38	109.31	
4+00			

Rt.	Lt.
Ground line at rock wall	
Top rock wall	
1+20 +5.6/19 — 135.4	1+20 +5.6/19 — 135.4
1+40 +1.6/10 — 139.4	1+40 +1.6/10 — 139.4
1+50 5.0/0 — 136.0	1+50 5.0/0 — 136.0
1+60 10.7/10 — 130.3	1+60 10.7/10 — 130.3
1+80 14.7/20 — 126.3	1+80 14.7/20 — 126.3
2+00 +5.3/20 — 126.3	2+00 +5.3/20 — 126.3
2+20 1.0/10 — 130.6	2+20 1.0/10 — 130.6
2+30 7.7/0 — 123.9	2+30 7.7/0 — 123.9
2+40 11.8/10 — 119.8	2+40 11.8/10 — 119.8
2+60 14.6/20 — 117.0	2+60 14.6/20 — 117.0
2+80 +4.9/20 — 117.2	2+80 +4.9/20 — 117.2
3+00 0.4/10 — 121.7	3+00 0.4/10 — 121.7
3+10 5.4/0 — 116.7	3+10 5.4/0 — 116.7
3+20 10.7/10 — 111.4	3+20 10.7/10 — 111.4
3+35 11.7/15 — 110.4	3+35 11.7/15 — 110.4
3+55 18.7/20 — 103.4	3+55 18.7/20 — 103.4
3+80 +5.1/20 — 104.2	3+80 +5.1/20 — 104.2
4+00 0.2/10 — 109.1	4+00 0.2/10 — 109.1
4+10 5.2/0 — 104.1	4+10 5.2/0 — 104.1
4+20 10.5/10 — 98.8	4+20 10.5/10 — 98.8
4+40 16.5/20 — 92.8	4+40 16.5/20 — 92.8

Profile of Russell Court

	109.31		
4+05		12.3	97.0
T.P.		12.85	96.46
	0.89	97.35	
4+40			
T.P.		11.74	85.61
	0.12	85.73	
T.P.		12.36	73.37
	0.57	73.94	
		12.95	60.99
	0.07	61.06	
		12.91	48.15
	0.75	48.90	
		13.07	35.83
	0.36	36.19	
		13.02	23.17
	0.41	23.58	
		10.96	12.62
	0.81	13.43	

RE LE.

Sewer M.H. 15 +- Le Flow line

95.8 94.6 93.7 87.9 83.3

+1.6/20 2.8/10 3.5/0 9.5/10 14.1/16 creek Bottom

Profile of Russell Cont

13.43

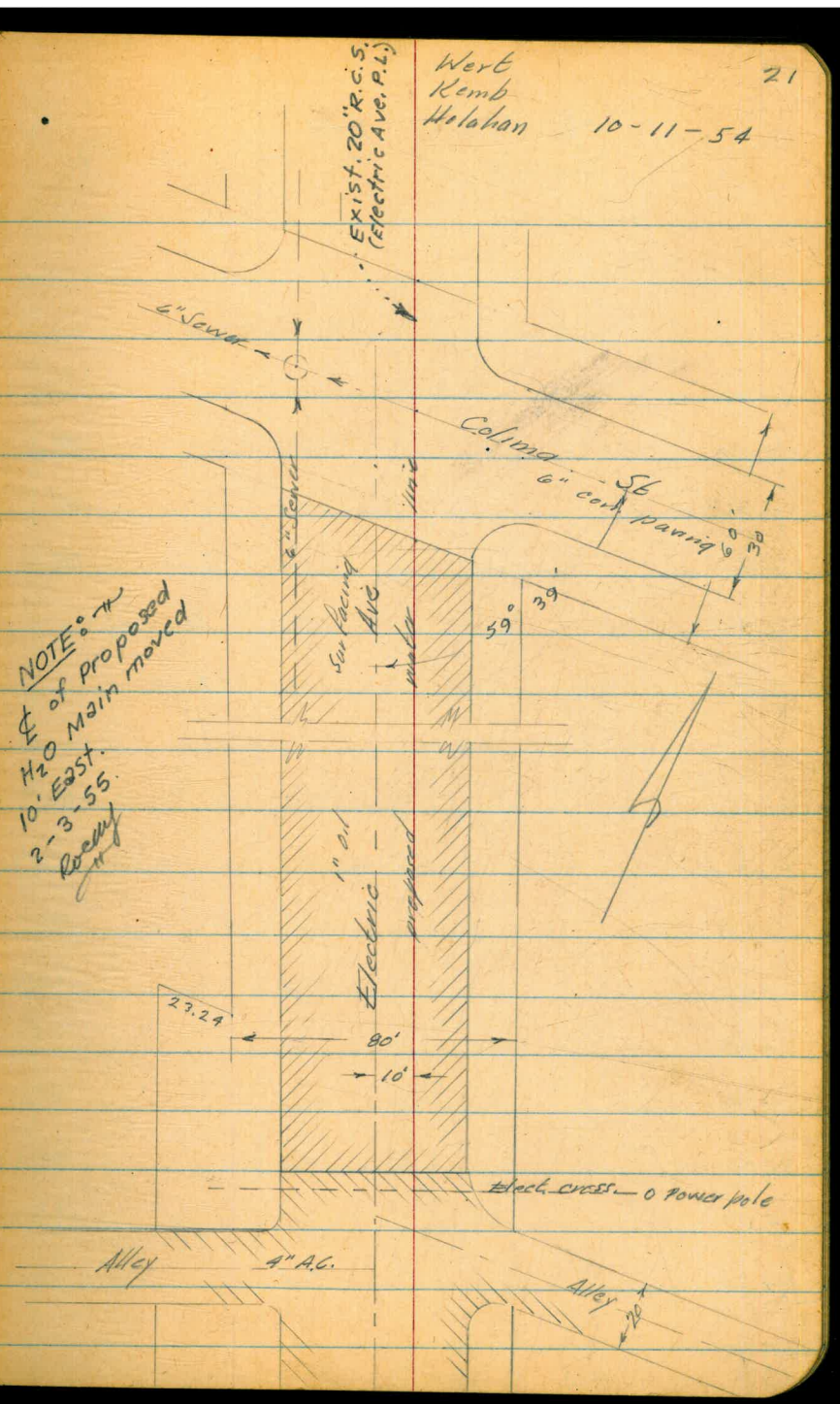
7.88 5.55

S.W. B.P. Rosecrans & Russell 5.54

Wert
Kemb
Holahan 10-11-54

Profile & proposed water on
Electric Ave, Colima Sly 500'

0+00	N/L of Colima St.
0+18.5	No. curb line
0+34	℄ Colima & Sewer Cross.
0+52.5	So. curb line
0+69.5	So. edge con. paving
5+03.4	End oil surfacing, begin AC (4")
+09	Elect
+20.5	No. edge alley
+34	So " "



ELECTRIC AVE.
Colima St. to S'l'y 500'+

			77.98	S.E. B.P. La Jolla Blvd. & Colima St
	7.41	85.39		
0+00		1.3	84.1	N/L of Colima
+16.5		1.4	84.0	No. curb line Colima
+34		1.5	83.9	& Colima & Sewer crossing
+34		1.96		Sewer M.H. 30' Rt
T.P.		1.76	83.63	
	5.03	88.66		
0+52.5		4.8	83.9	So. curb line Colima
+69.5		4.8	83.9	So. edge con. pavement
1+00		5.0	83.7	
+50		4.8	83.9	
2+00		4.6	84.1	
+50		4.4	84.3	
3+00		4.1	84.6	
+50		3.6	85.1	
4+00		3.3	85.4	

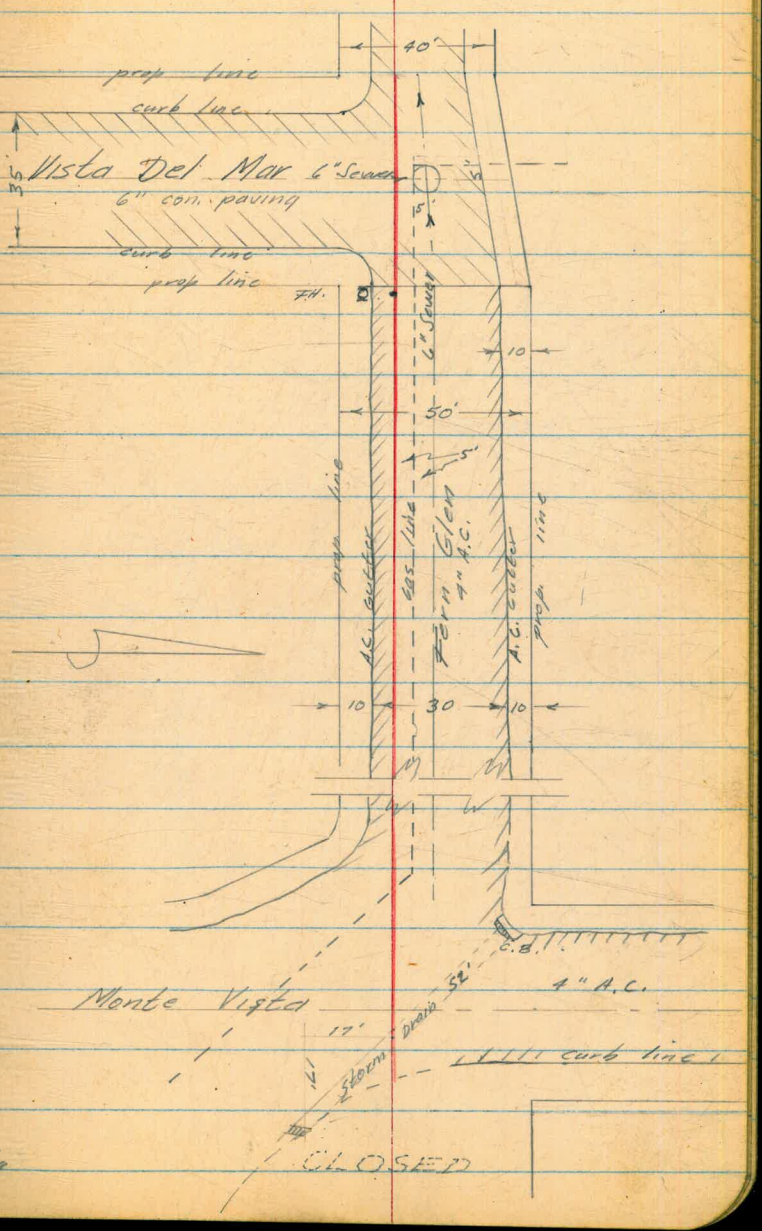
	88.66		
4+50	3.8	84.9	
5+00	5.0	83.7	
+03.4	5.0	83.7	begin 4" A.C. paving
+09	5.1	83.6	Elect. crossing
+10.5	5.1	83.6	No. curb of Alley
+34	5.3	83.4	So " " "
T.P.	10.15	78.51	
3.16	91.67		
	3.69	77.98 =	77.98

WERT
KEMP
Holohan

10-13-54

Profile & Proposed Water on Fern Glen, Monte Vista to Vista Del Mar

0+00	W/L of Vista Del Mar
+10	W curb " " "
+27.5	℄ Sewer ℄ " " "
+45	E curb " " "
+55	E/L " " "
+56	F.H. & G.V.
5+03	Angle point in gas
5+07	Gas crossing
5+40	Sewer Crossing
5+50	Storm Drain Crossing
5+56	Curb line produce, E, Monte Vista



Profile Fern Glen Cont

			59.52	SW. BP. Monte Vista & Belvedeer
	7.49	62.01		
T.P.		11.87	50.14	
	1.96	51.60		
T.P		10.51	41.09	T.B.M. SE. F.H. Fern Glen & Vista Del Mar
	8.34	49.43		
0+00		12.5	36.93	W/L Vista Del Mar
+27.5		11.4	38.03	& Vista Del Mar & Sewer crossing
+27.5		11.38	38.05	Sewer M.H. 10' Lt 4.5 to flow
0+50		10.9	38.53	
+55		10.8	38.63	E/L of Vista Del Mar, edge of con. pave.
1+00		8.5	40.93	
1+50		6.2	43.23	
2+00		4.2	45.23.	
2+50		2.5	46.93	
T.P		2.05	47.38	
	5.25	52.63		
3+00		4.5	48.13	

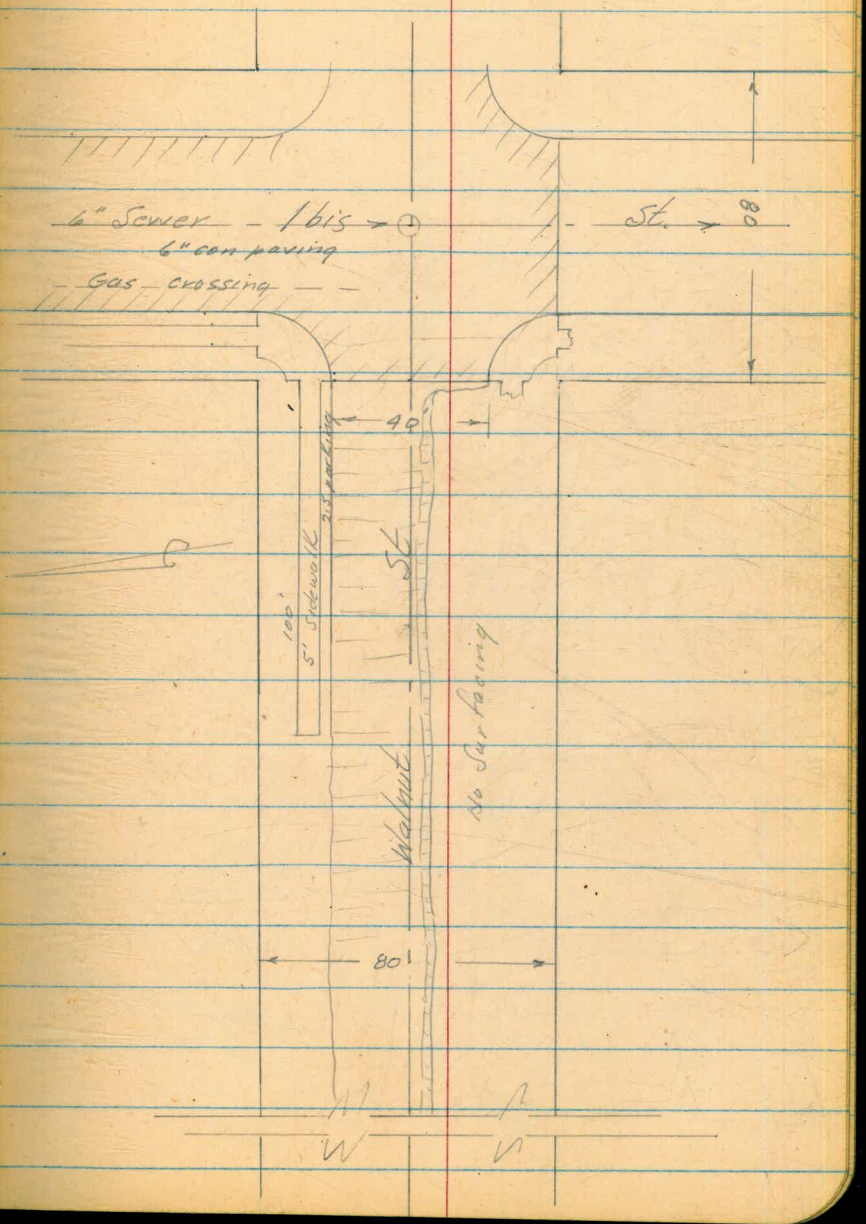
Reduced by J. Gray 6-16-55

	52.63			
3+50		4.7	47.93	
4+00		5.7	46.93	
4+50		6.2	46.43	
5+00		6.2	46.43	
5+03		6.0	46.63	Angle point in Gas line 5' Lt.
5+07		6.0	46.63	Gas crossing
5+40		4.9	47.73	& Monte Vista & Sewer crossing
5+50		4.6	48.03	
5+56		4.5	48.13	& curb line produced on Monte Vista
T.P.		4.17	48.46	
	12.95	60.91		
		1.37	59.54	

Wert
Kemp
Holahan 10-21-54

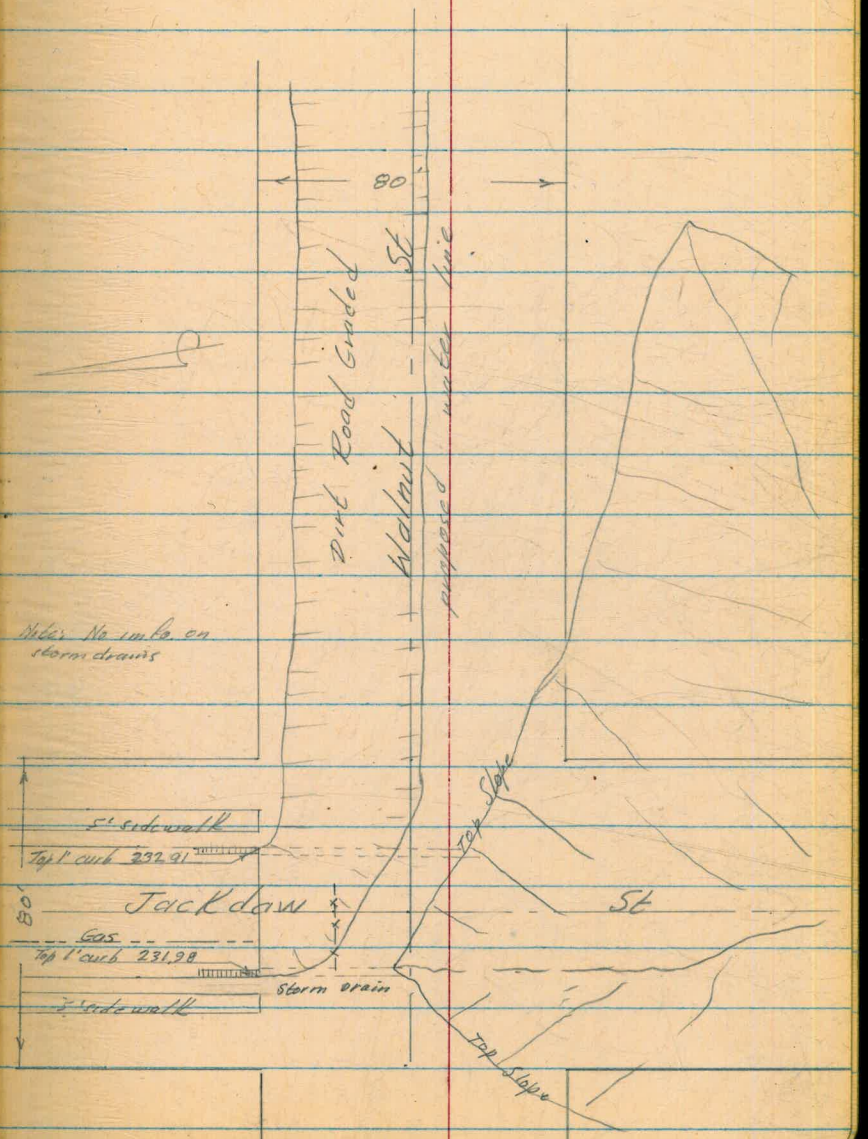
Profile & Proposed Water Line
Walnut St. 16is to Jackson

0+00	E/L of 16is
+14	E curb
+40	L 16is & Sewer crossing
+54	Gas crossing
+80	W/L of 16is
1+80	End 5' sidewalk



2+80 E/L of Jackdown

3+60 W/L of Jackdown



Profile Walnut Cont

		247.48		NW BP. Brookes & Jacksdow
9.43	251.91			
		6.58	245.33	
4.55	249.88			
		5.76	244.12	
5.10	249.22			
		3.41	245.81	
3.79	249.60			
0+00		6.2	243.4	E/L of this St.
+14		6.0	243.6	& curb line this St
+90		5.8	243.8	& this & Sewer crossing
+90		5.69	243.91	Sewer MH. 10. Rt
+50		5.8	243.8	
+54		5.7	243.9	Gas crossing
+60		5.7	243.9	W curb line this
+80		5.6	244.0	W/L of this & edge of 6" com. pave
+83		4.4	245.2	

	249.60		
0+83		4.4	245.2
1+00		9.0	245.6
+50		5.8	243.8
2+00		9.9	239.7
T.P.		12.86	236.74
	1.77	238.51	
2+50		9.0	234.5
+84		6.2	232.3
3+00		10.2	228.3
3+10		12.2	226.3
+36		23.6	214.9

Rt & water Lt

245.2

5.9/10 4.4/0 4.6/10

5.3/10 5.2/7 4.0/5 4.0/0 4.2/10

6.7/10 6.7/7 5.6/7 5.8/0 6.0/10

10.2/15 10.6/10 9.6/6 9.9/0 10.1/10

3.0/10 4.0/0 5.2/10

5.4/10 6.2/0 9.6/6 9.1/10

edge conc. 231.8

232.3

233.3

231.2

230.7

6.7/50 6.3/30 5.2/25 7.3/17 7.8/10

6.1/10 14.2/0 14.5/10

228.6

9.9/6 12.2/0 18.2/10

226.3

16.6/10 23.6/0 29.5/10

	238.51		
3760		23.0	215.5
T.P.		2.84	235.67
	12.40	248.07	
		0.48	247.59
	5.67	253.26	
		5.79	247.47

Rt		Lt.
17.0 To	23.0 To	26.0 To

Set TBM NE. Cor. Jackdaw & Walnut

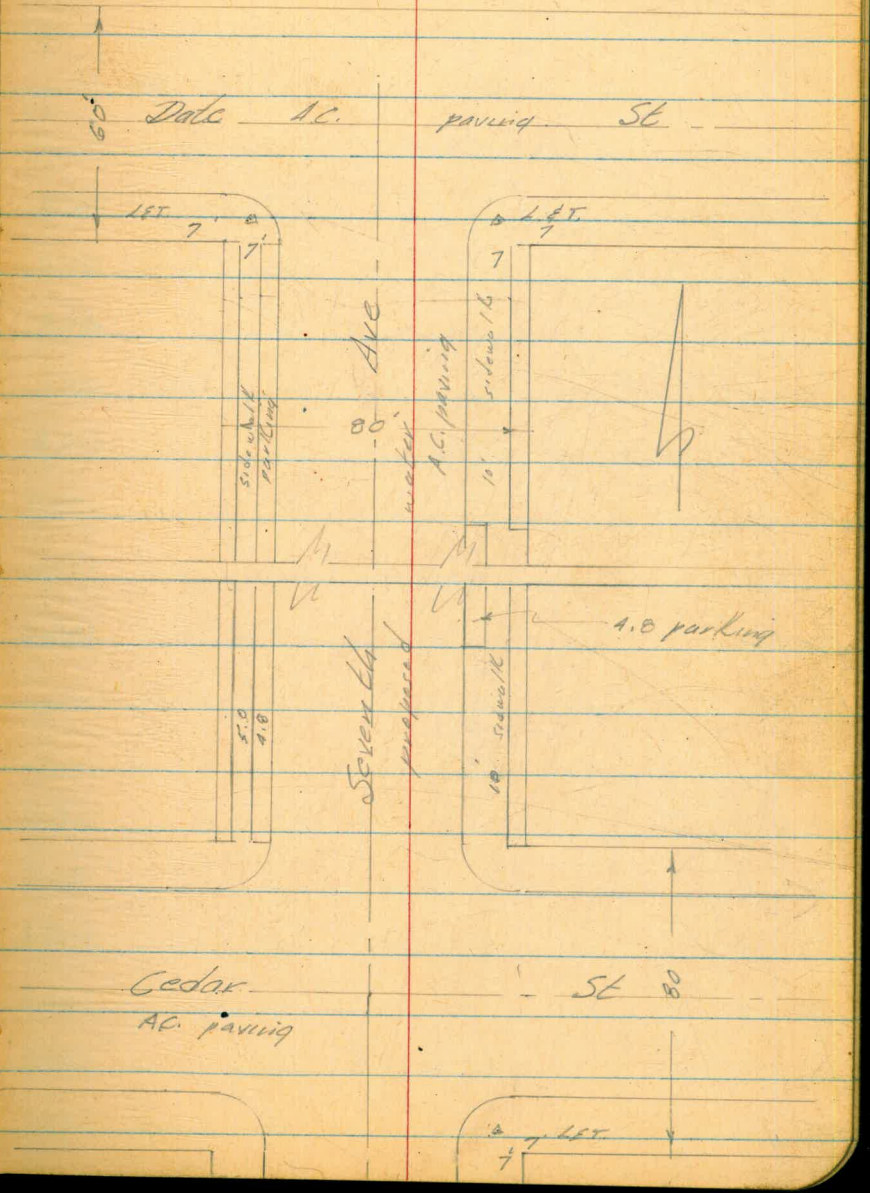
= 247.48 NW BP Brooks & Jackdaw

Wert
Kemp
Hotalian

10-29-54

Profile & Proposed Water Main
7th Ave Cedar St to Date St.

2+90	End 4.8 parking
1+80	Start 4.8 parking
0+66	No. curb
1+4	So. curb
0+00	So. flat Cedar



Seventh Ave Cont.

			161.88	St. BP. Seventh & Cedar
	3.06	164.94		
0+00		4.1	160.8	S/L at Cedar
+14		4.1	160.8	So. curb line
+50		4.5	160.4	
+66		4.7	160.2	No curb line Cedar
+80		5.0	159.9	G.V. on line & N/L at Cedar
1+00		5.1	159.8	
+50		5.7	159.2	
2+00		6.3	158.6	
I.P.		6.42	158.52	
	3.76	162.28		
2+50		4.3	158.0	
3+00		5.4	156.9	
+94		6.5	155.8	So. curb line Dale St.
4+00		6.5	155.8	
+46		7.0	155.3	No. curb line Dale St.
+46		6.6	155.7	Top curb.

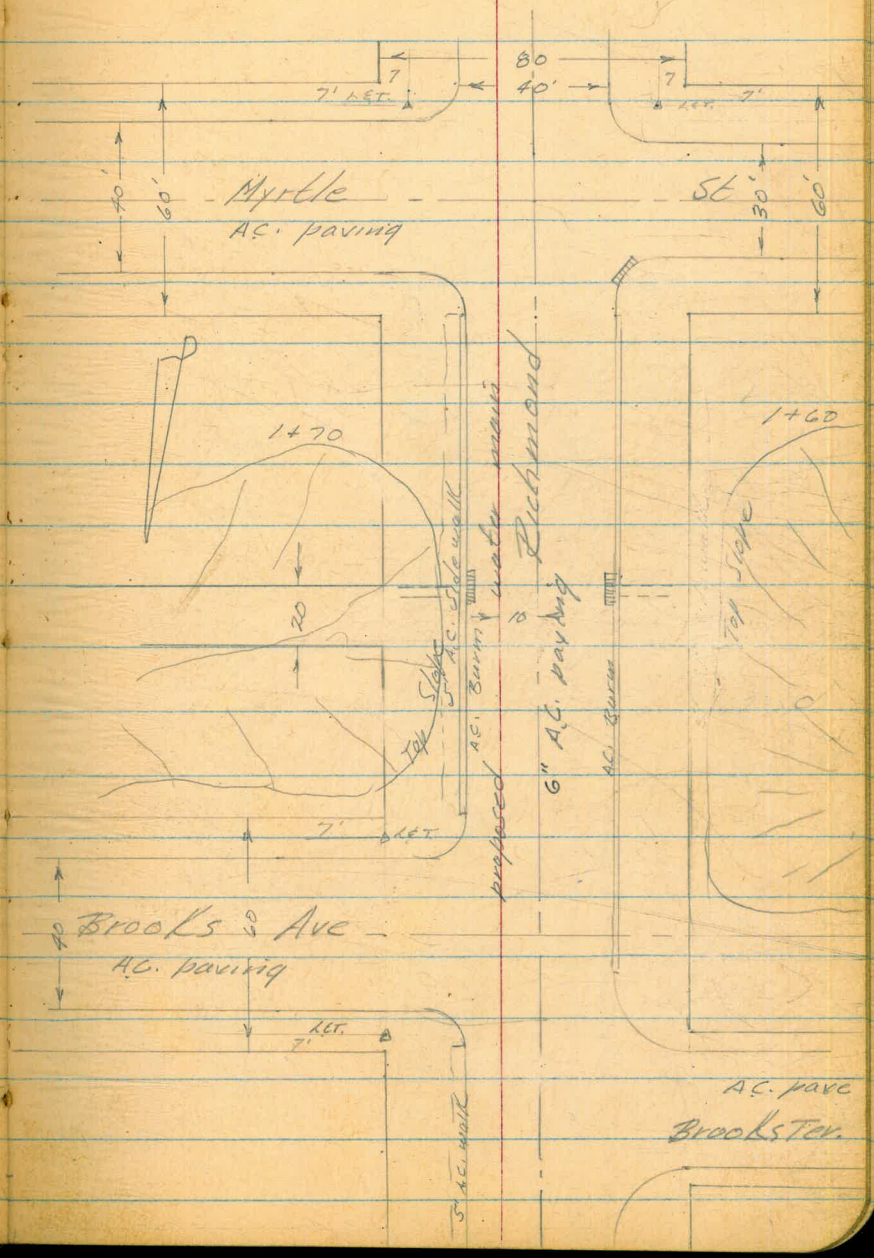
	162.28			
T.P.		4.68	157.60	
	7.33	169.93		
		3.05	166.88	SERR Seventh & Cedar

Wert
Kemp
Holaham

11-1-54

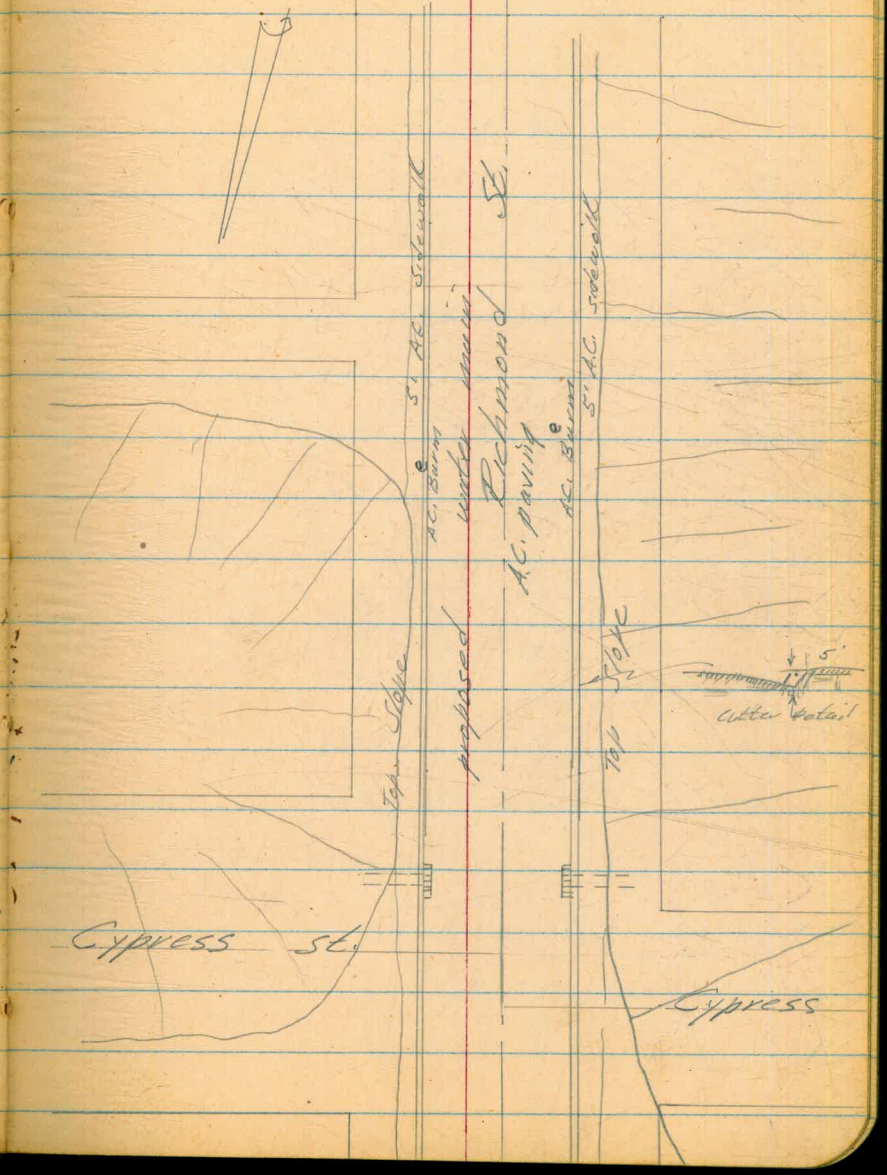
Profile & Proposed Water Main
Richmond St. Myrtle to Cypress

0+00	S/L of Myrtle St
1+10	
1+70	
2+10	S/L of Alley
2+30	N/L of Alley
2+40	3'x6' Storm Drains (no crossings)
3+80	S/L of Brooks Ave
4+40	N/L of Brooks Ave
4+40	So. curb line of Brooklea Terrace
4+43	℄ water G.V. opposite Sewer M.H. Brooks Ter.
4+55	℄ Sewer M.H. Brooks Terrace
4+70	No curb line Brooks Terrace



Richmond St. Cont.

5+90	S/L Alley
6+10	N/L Alley
7+50	S/L of Cypress
7+70	Storm Drains (3'x6' no crossing)
8+30	N/L of Cypress



Profile of Richmond Cont

	280.04	
134	281.38	
0+00	2.1	S/L of Myrtle
+10	2.3	So. curb line
+50	3.2	No. curb line
1+00	4.4	
+50	6.5	
2+00	9.0	
+25	9.58	Sewer M.H. to Lt
+50	10.8	
3+00	9.5	
+50	6.6	
+90	4.5	So curb line Brooks Ave
4+00	4.0	
+30	3.3	No " " "
+50	3.0	
5+00	4.3	

Richmond Cont

—			280.04
	1.34	281.38	
0+00		2.1	279.3
+10		2.3	279.1
+50		3.2	278.2
1+00		4.4	277.0
+50		6.5	274.9
2+00		9.0	272.4
2+25		9.58	271.8
T.P.		9.58	271.80
	10.22	282.02	
2+50		10.8	271.2
3+00		9.5	272.5
+50		6.6	275.4
+90		4.5	277.5
4+00		4.0	278.0
+30		3.3	278.7

So. curb line Brooks Ave

No " " " "

Richmond Cont

	282.02			
4+50		3.0	279.0	
5+00		4.3	277.7	
T.P.		6.92	275.10	
	0.58	275.68		
5+50		1.7	274.0	
6+00		6.5	269.2	
+50		11.2	264.5	
7+00		14.0	261.7	
T.P.		13.29	262.39	
	7.56	269.95		
7+50		9.2	260.8	
8+00		8.5	261.5	
+30		6.7	263.3	N/L of Cypress
T.P.		7.52	262.43	
	12.78	275.21		
T.P.		0.28	274.93	
	12.61	287.54		
		1.33	286.21	

Richmond Cont

10.67 296.88

4.81 292.07

6.43 298.50

4.45 294.05

294.05 S.W. BP. Robinson & Richmond

Wert
Kemp
Holahan

11-9-54

Profile & Proposed Water Main
Franklin Ave Evans St to 25th '56

			94.98	NE. BR Ocean View & Evans
	0.64	95.62		
		12.85	82.77	
	0.86	83.63		
		12.60	71.03	
	6.55	77.58		
		2.50		Set T.B.M. F.H. S.E. cor Franklin & Evans
0+00		7.2	70.4	W/L of Evans
+10		7.9	69.7	W curb line
+50		6.3	71.3	E curb & edge of 4" A.C.
1+00		5.2	72.4	
+50		3.9	73.7	
2+00		2.8	74.8	
+50		1.8	75.8	
3+00		0.7	76.9	
T.P.		0.05	77.53	
	8.22	85.75		

Franklin Ave. Cont.

	85.75			
3+50		7.8	78.0	
4+00		6.8	79.0	
+50		5.9	79.9	
5+00		5.1	80.7	
+50		4.4	81.4	
6+00		3.8	82.0	
+50		3.6	82.2	
6+60.35		3.6	82.2	W/L of Sampson
+70.35		3.8	82.0	W curb line
+90.35		3.4	82.4	℄ Sampson
7+00		3.5	82.3	
7+10.35		3.7	82.1	E curb line
+20.35		3.4	82.4	E/L of Sampson
+50		3.0	82.8	
T.P.		2.85	82.90	
	5.12	88.02		

Franklin Ave Cont

	88.02		
8+00		5.0	83.0
+50		4.8	83.2
9+00		4.8	83.2
+50		4.7	83.3
10+00		4.9	83.1
+07		5.1	82.9
+07		4.4	83.6
T.P.		3.09	84.93
	7.30 92.23		
		3.64	88.59
	4.47 93.06		
		2.02	91.04

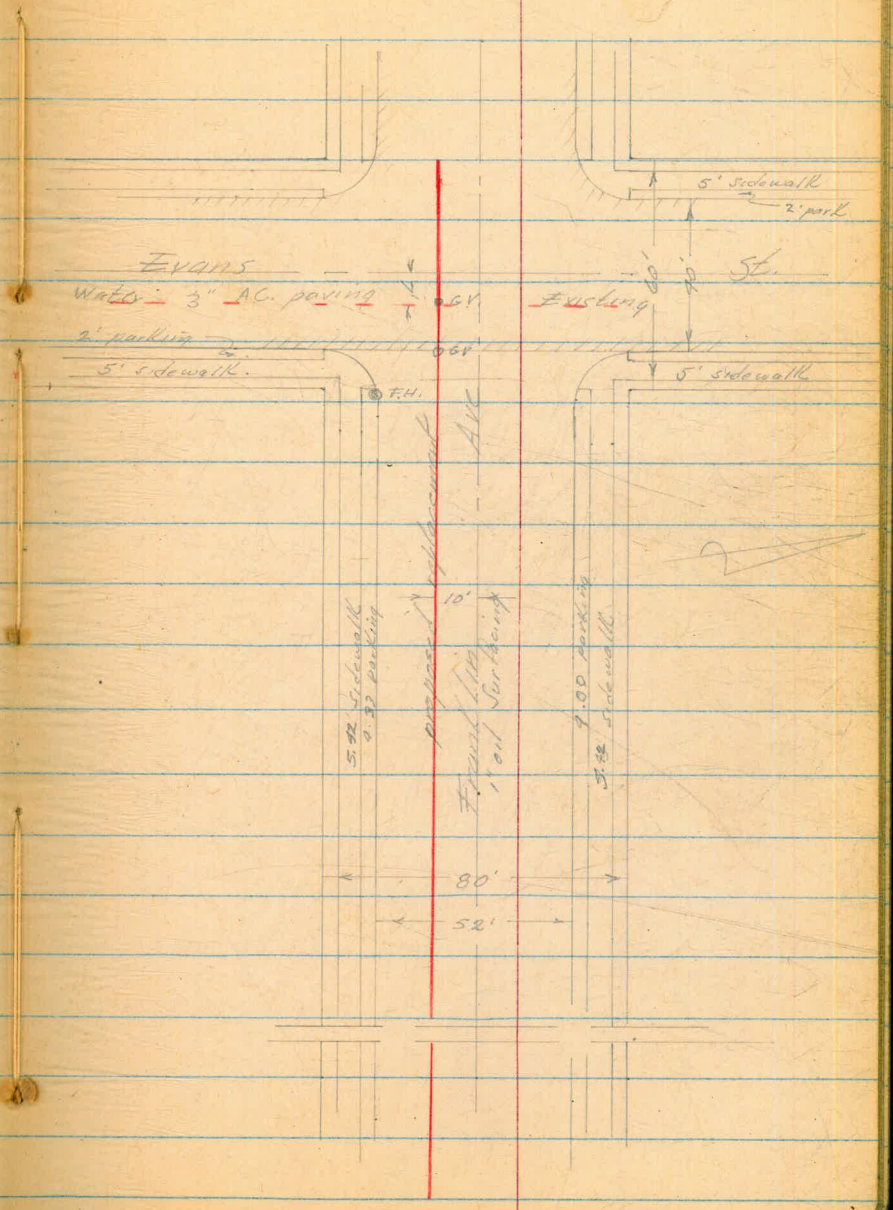
± gutter 28th St. & water produced

Top curb " " " " "

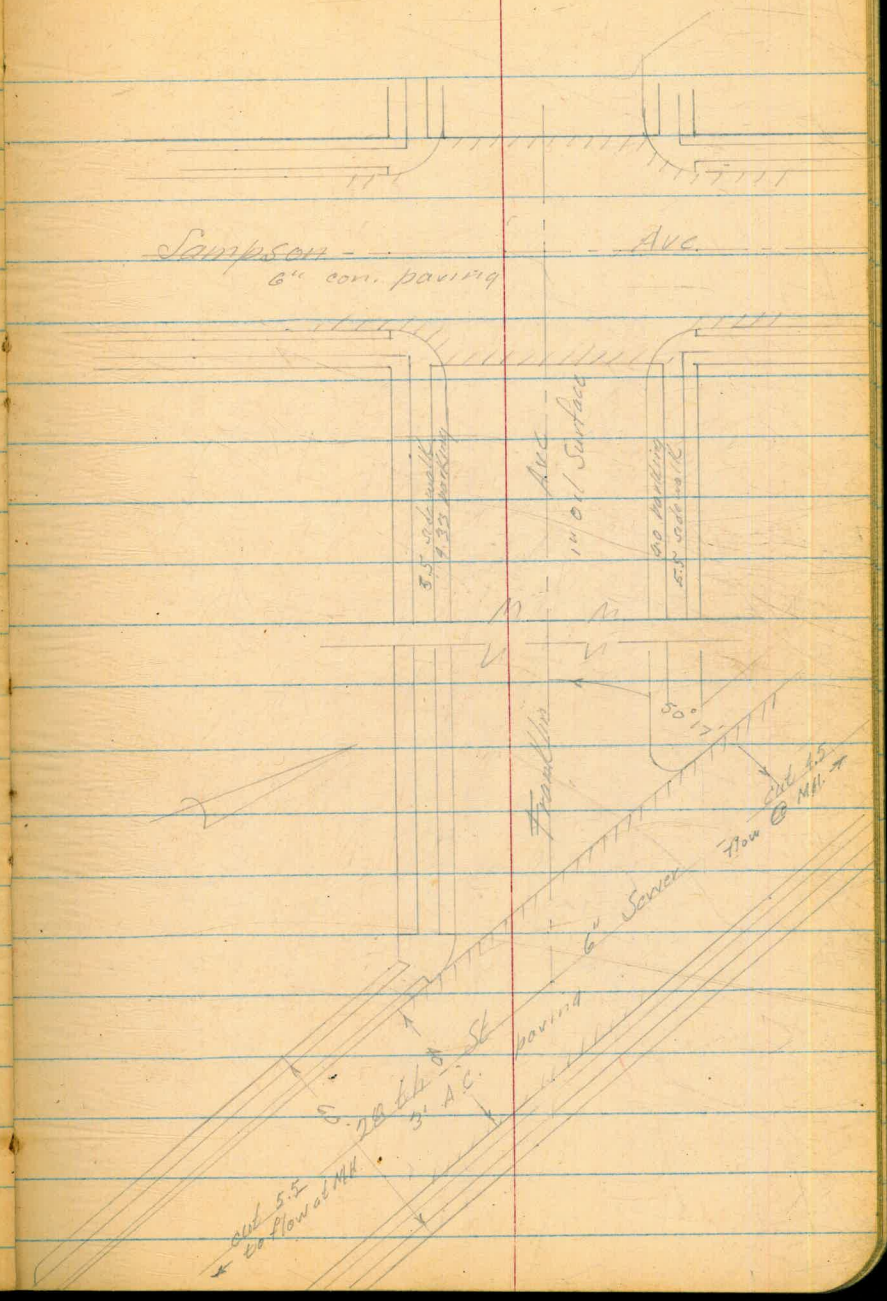
Set T.B.M. Top F.H. 28th & Franklin

91.05 NE. B.P. 28th & Ocean View

Franklin Ave. Cont.



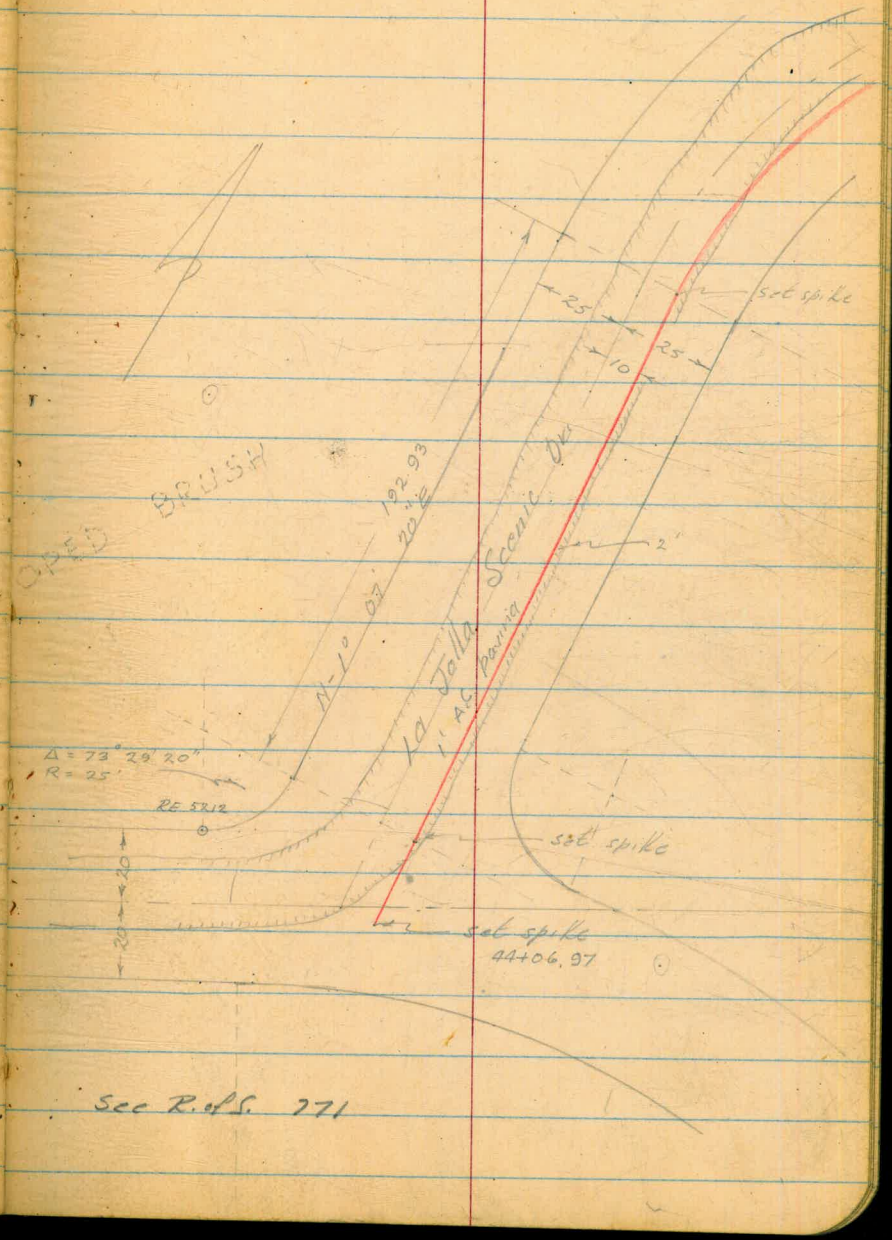
Franklin Ave Cont.



Werk
Kemp
Holahan

12-7-54

Mutlands 12" Feeder Line
La Jolla Scenic Dr. to Bescano Dr.



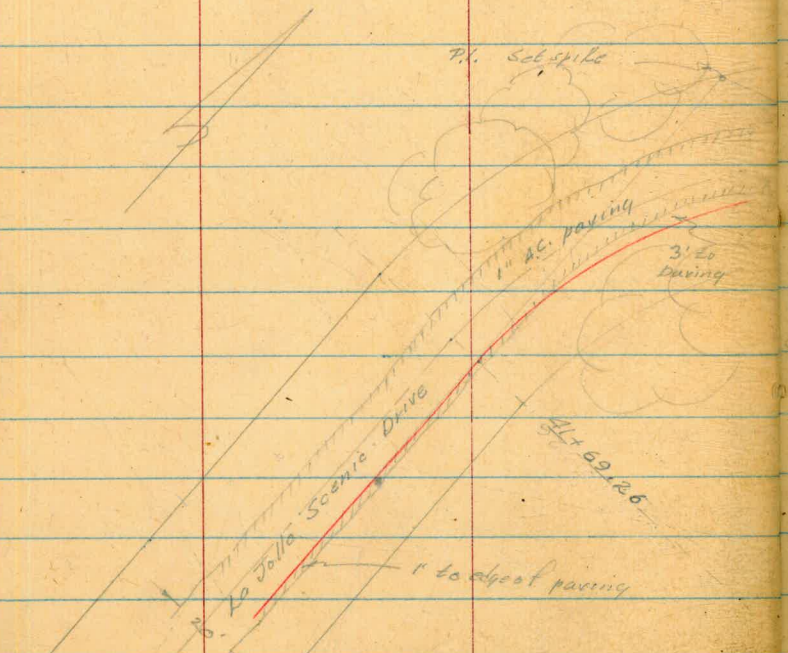
RE 5212
1½" pipe ct.

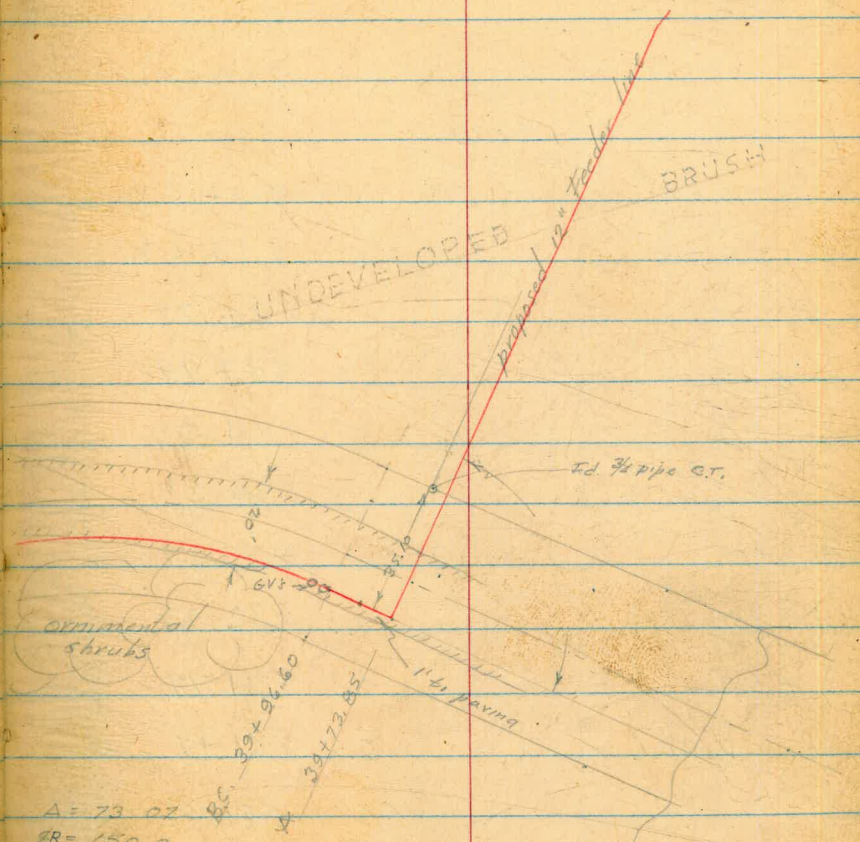
N 74° 36' 40" E

BESCANO Drive

See R. of S. 771

Murklands 12" Feeder Line Cont





See Refs. 721

Muirland 12" Feeder Line Cont.

		535.43	TBM. 3/4" prop pipe 3.75 Rt Sta 39+38.85
	3.96	539.39	
39+73.85		4.7 534.69	A point 90° 03' Rt
+96.60		4.7 534.69	B.C.
40+00		4.6 534.79	
+25		4.6 534.79	
+50		5.0 534.39	
+75		5.1 534.29	
41+00		5.7 533.69	
+25		6.6 532.79	
+50		7.6 531.79	
+69.26		7.9 531.49	E.C.
TP		7.73 531.66	
	5.92	537.58	
42+00		6.9 530.66	
+50		8.4 529.16	
43+00		9.8 527.76	

Elev. Reduced By Palomino 12-15-54

Murlands Feeder Line Cont.

	537.58		
43+50		11.4	526.18
+62.19		12.0	525.58
44+06.97		13.4	524.18
		9.98	527.60
		7.86	529.72
	8.06	527.78	
		5.90	731.88
	8.04	539.92	
		4.51	535.91

B.C.

P.L. water lines

(Marked 528.88)

Old TBM. NE. cor. Scenic Dr. & Bescano Dr.

Set TBM NW prop pipe " "

7/9 "pulic 39+38.85

MUIRLANDS 12" FEEDER LINE

STK'S & GRD'S.

SHOREY
MARTEL
KELLHOFER

3/31/55

50

TBM	3.25	538.68		535.43		3/4" PROT PIPE 3.75' RT STA. 39+38.85 (Pg. 48)
43+84.00 END OF WORK 3" B.O.			13.5	525.2	520.7	$C 4\frac{5}{}$ ± PLANS SHOW B.O. AT 43+62.12 - IN ERROR; B.O. AT 43+89
43+52 CORP. COCK			12.3	526.4	521.8	$C 4\frac{6}{}$
43+50			12.3	526.4	521.8	$C 4\frac{6}{}$
43+00			10.5	528.2	523.3	$C 4\frac{9}{}$
42+50			9.0	529.7	524.9	$C 4\frac{8}{}$
42+00			7.7	531.0	526.5	$C 4\frac{5}{}$
41+69.26 AH, 41+75.26 BK. } E.C. EQ.			6.8	531.9	526.9	$C 5\frac{0}{}$
41+50			6.0	532.7	527.4	$C 5\frac{3}{}$
41+25			5.3	533.4	527.8	$C 5\frac{6}{}$
41+00			4.7	534.0	528.2	$C 5\frac{8}{}$
40+75			4.2	534.5	528.7	$C 5\frac{8}{}$
40+50			3.6	535.1	529.7	$C 6\frac{0}{}$
40+25			3.4	535.3	529.8	$C 5\frac{5}{}$
40+00			3.5	535.2	530.0	$C 5\frac{2}{}$
39+96.60 B.C.			3.5	535.2	530.1	$C 5\frac{1}{}$
39+91.10 AH, 39+85.20 BK. } △ PT.			4.0	534.7	530.2	$C 4\frac{5}{}$
39+50			3.5	535.2	530.3	$C 4\frac{9}{}$
TD	12.73	547.93	3.48	535.20		
39+25			11.5	536.4	530.5	$C 5\frac{9}{}$
39+00			9.9	538.0	532.0	$C 6\frac{0}{}$
38+50			7.3	540.6	535.1	$C 5\frac{5}{}$

MUIR LANDS 12" FEEDER LINE (STK's & GRD's) CONT'D.

⑥

SHOREY 3/31/55
MARTEL
KELLHOFER

552.5

		547.93				
38+00			4.7	543.2	538.6	C_4^E
37+50 PI	10.61	557.07	1.47	546.46	541.8	C_4^7
37+00			7.4	549.7	545.0	C_4^7
36+60			5.4	551.7	547.3	C_4^4
36+58 ^{80}			5.5	551.6	547.3	C_4^3
36+51 ^{80}			5.3	551.8	547.3	C_4^5
36+50			5.2	551.9	547.3	C_4^6
36+36 ^{30} 12"&12" TEE ~~90 BEND~~			5.3	551.8	547.4	C_4^4
36+36 ^{30}				552.5		C_5^1
36+00			5.0	552.1	~~547.5~~	C_4^6
CK.			4.9	552.2 = 552.2		
SET TBM	11.15	564.36	3.86	553.21		
35+92 ^{C4} ⚠ 90° BEND			12.4	552.0	547.5	C_4^5
35+92 ^{C4}			12.4	552.0		C_4^5
35+75			11.8	552.6	547.6	C_5^0
35+50			10.5	553.9	548.8	C_5^1
35+00			8.0	556.4	551.1	C_5^3
34+50			5.9	558.5	553.4	C_5^1
34+00			3.8	560.6	555.8	C_4^8
33+50			1.7	562.7	556.2	C_6^5
33+00 PI	5.73	569.71	0.38	563.98	556.8	C_7^2
32+50			5.1	564.6	557.2	C_7^4

& PROFILE STA. 35+79 ^{54} (F.B. 835-34)

END CONC. BLK. WALL AT DRIVEWAY 25' LT. STA. 35+79 ^{54}

MUIRLANDS 12" FEEDER MAIN

⑥ STK'S & GND'S. (CONT'D)

SHORLEY 4/5/55
MARTEL
KELLHOFER.

	569.71				
32+00		5.1	564.6	557.8	C6 8
31+50		5.3	564.4	558.3	C6 1
31+00		5.7	564.0	558.8	C5 2
30+50		5.7	564.0	559.3	C4 7
30+00		4.6	565.1	559.8	C5 3
29+62 36 A	1 12"x12" TEE	4.2	565.5	560.2	C5 3
29+62 36		4.2	565.5		C5 3
29+57 G.V. 12"		3.6	566.1	560.3	C5 8
M	6.18 571.81	4.08	565.63		
29+50		6.0	565.8	560.4	C5 4
29+00		4.9	566.9	560.8	C6 1
28+50		4.7	567.1	561.3	C5 8
28+00		4.7	567.1	561.8	C5 3
27+50		5.0	566.8	561.8	C5 0
27+00		4.7	567.1	561.9	C5 2
26+62 AH. } EQ.					
26+55 33 BK. }	45° BEND.	4.5	567.3	562.0	C5 3
26+42	45° BEND	4.1	567.7	562.1	C5 6
26+00		2.7	569.1	562.3	C6 8
25+50		2.1	569.7	562.5	C7 2
25+00		2.0	569.8	562.8	C7 0
24+50		1.9	569.9	563.0	C6 9

MUIRLANDS 12" FEEDER MAIN
@ STK's & Grd's (CONT'D)

SHOREY 4/5/55
MARTEL
KELLHOFER

571.81

24+00			2.2	569.6	563.4	C_6^2
23+89.32 P.O.C.			2.1	569.7	563.5	C_6^2
CK.			1.8	570.0 = 569.9		
TBM	5.38	575.44	1.75	570.06		
23+89.32 P.O.C			5.9	569.5	563.5	C_6^0
23+75			5.9	569.5	563.5	C_6^0
23+50			5.8	569.6	563.6	C_6^0
23+31.03 (BC)			6.1	569.3	563.7	C_5^6
23+00			5.7	569.7	563.9	C_5^8
22+50			5.6	569.8	564.1	C_5^7
22+00			4.9	570.5	564.3	C_6^2
21+50			5.3	570.1	564.6	C_5^5
21+48.14 EC			5.3	570.1	564.6	C_5^5
21+25			5.2	570.2	564.7	C_5^5
21+00			4.9	570.5	564.8	C_5^7
20+75			4.5	570.9	564.5	C_6^4
20+50			4.6	570.8	564.3	C_6^5
20+25			4.3	571.1	564.0	C_7^1
20+00			4.6	570.8	563.8	C_7^0
HP	4.76	575.62	4.58	570.86		
19+75			5.4	570.2	563.6	C_6^6
19+50			7.5	568.1	562.8	C_5^3

Made cut cut sheets
23+89.32 TO 23+84.0 4/5/55

℄ STA. AT 23+89.32 P.O.C. (F.B. 895-32)
SET NAIL IN P.P. Nº 6231 12' FRONT 23+89.32

MUIRLANDS 12" FEEDER (Cont'd)

4/19/55
4/20/55

		575.62				
19+38.27 BC.			8.5	567.1	562.6	C4 7
CK.			7.1	568.5 = 568.4		℄ STA 19+38.27 B.C.
TBM	1.97	574.86	2.73	572.89		SET TBM ON IRON PIN 25' RT STA. 19+38.27 B.C.
19+00			9.7	565.2	561.2	C4 2
18+50			10.0	564.9	559.6	C5 3
18+00			10.3	564.6	558.0	C6 6
17+50			11.7	563.2	556.4	C6 8
17+46.46 EC.			11.8	563.1	556.4	C6 7
17+25			12.4	562.5	555.6	C6 3
TP	1.23	563.09	13.00	561.86		
17+00			1.3	561.2	554.8	C6 4
16+75			2.6	560.5	554.0	C6 5
16+50			3.2	559.9	553.6	C6 7
16+25			3.7	559.4	552.8	C6 6
15+99.38 B.C.			3.9	559.2	552.4	C6 8
15+50.			5.1	558.0	551.6	C6 4
15+00			6.6	556.5	550.7	C5 8
14+50.27 EC.			7.9	555.2	549.9	C5 3
CK. TBM			7.69	555.40 = 555.40		ON IRON PIN 25' RT. 14+50.27 E.C.
14+25			8.3	554.8	549.4	C5 4
14+00			7.8	555.3	549.0	C6 3
13+75			7.6	555.5	548.6	C6 8

MUIRLANDS 12" FEEDER (Cont.d)

563.09

13+71.52 BC.			7.6	555.5	548.4	C7 1
13+70 EC			7.7	555.4	548.4	C7 2
13+50			8.2	554.9	546.6	C7 3
TP	1.18	556.86	7.41	555.68		
13+25			3.0	553.9	546.5	C7 4
13+00			4.4	552.5	545.5	C7 5
12+75			5.8	551.1	544.0	C6 7
12+50			7.3	549.6	543.4	C6 2
12+25			8.7	548.2	542.0	C6 2
12+00			10.0	546.9	540.5	C6 4
11+82.05 B.C			10.8	546.1	539.5	C6 6
11+50			12.3	544.6	537.6	C7 0
TP	0.47	544.04	13.29	543.57		
11+00			1.2	542.8	537.7	C8 1
10+50			6.9	537.1	531.8	C5 3
10+30.90 AH } E.C			9.5	534.5	530.7	C3 8
10+31.86 BK }					530.6	C3 0
10+25			10.4	533.6		C4 5
10+00			10.5	533.5	529.0	
9+75			10.4	533.6	527.6	C6 0
9+50			11.3	532.7	526.2	C6 5
9+25 TP	2.58	533.41	13.21	530.83	524.8	C6 0
9+00			4.3	529.1	523.3	C5 8

✓

MURLANDS 12" FEEDER Cont.d

533.41

8+75			6.7	526.7	521.9	$C4^8$
8+65	F.H. TEE		6.4	527.0	521.3	$C5^7$
	⑤ F.H.		2.9	530.5	527.8	$C9^2$ to ell $C2^7$ to flange
8+55.99	(Δ = 84°24' RT.) B.C. 12" TEE		6.6	526.8	520.8	$C6^0$ RT ⑧
			6.4	527.0		$C6^2$ LT ⑥
CK. & STA.			6.2	527.2 = 527.3		& STA. 8+55.99 B.C.
TBM	1.80	528.73	6.48	526.93		TBM SET ON 1½" IRON PIPE N.E. DRIVEWAY
8+50			2.3	526.4	519.8	$C6^6$ ⑥ LT $C7^2$
8+25			9.5	519.2	514.5	$C4^7$ ⑥ LT $C5^7$
TD	0.06	516.16	12.63	516.10		April 26 1955 Beatty Storey Martell Kellhofer
8+00			1.8	514.0	509.9	$C4^5$ ⑥ LT $C4^8$
7+50			10.8	505.4	500.9	$C4^5$ ⑥ LT $C4^8$
TD	0.24	503.53	12.87	503.29		
7+00			8.0	495.5	~~491.7~~ 491.3	~~$C3^6$~~ $C4^3$ 493.4 8.7 C
			8.1	495.4	491.0	~~$C3^7$~~ $C4^4$ ⑧ LT 494.9
6+98.14	AH. EQUA (℄ PT. Δ 3°39'12" LT)		8.8	492.7	~~491.8~~	~~$C2^9$~~ $C3^2$ ⑥ RT. 8.6 C ⑥ LT $C4^2$
6+92.39	BK. CE TBM		11.41	492.12	= 492.93	
6+75			10.4	493.1	488.4	$C4^7$ 493.0 10.3 C
CK TD			8.61	494.92	= 495.01	(¾" I.P 5'5½)
6+66.26	(℄ PT Δ = 22°30' RT)		11.8	491.7	486.4	$C5^3$ 492.8 12.7 C
TD					486.0	
6+62.5	0.98	491.76	12.75	490.78	~~485.6~~	~~$C5^2$~~ $C4^8$ 490.4 13.1 C
6+50			3.7	488.1	483.5 ~~481.7~~	~~$C6^4$~~ $C4^6$ 488.2 8.5 C
6+37.5			5.7	486.1	481.0 ~~479.2~~	~~$C8^9$~~ $C5^4$ 486.2 9.6 C
6+25			8.3	483.5	478.5 ~~477.6~~	~~$C9^7$~~ $C5^0$ 483.7 8.7 C
6+12.5			10.8	481.0	476.0 ~~474.5~~	~~$C9^5$~~ $C5^0$ 480.5 11.3 C
PI 6+00	0.26	479.10	12.92	478.84	474.0 470.2	~~$C8^6$~~ $C4^8$ 479.3 12.5 C
5+87.5			2.8	476.3	472.2 ~~470.5~~	~~$C5^8$~~ $C4^1$ 476.6 2.5 C
5+75			3.9	475.2	470.5 ~~469.5~~	~~$C5^7$~~ $C4^7$ 474.8 4.3 C

NOTE: ℄ pipe moved 1° LT. (NE) Sta. 6+12.5 to 5+87.5
4/26/55 BEATTY
As per instructions from W.C. Brown & B. Huntington

MUIRLANDS 12" FEEDER (Cont'd.)

		479.10			(Rev. Grd)			
5+50			5.3	473.8	469.0	C 4.8	473.8 5.3 C	473.1 5+42 6.0 C
5+37.5			9.1	470.0	461.0	C 9.0	469.5 9.6 C	
TP	0.96	467.41	12.65	466.45				
5+32.89	P.I. Δ = 40°35' RT.	Prop. line	3.6	463.8	458.1	C 5.7	468.0 1.4 C	
5+25			10.2	457.2		C 4.2 (8) LT		
			10.1	457.3	453.0	C 4.3 (6) LT	469.4 7.0 C	
5+00			11.9	455.5	451.0	C 4.5	455.6 7.8 C	
4+75	P.I. Δ = 45° LT		12.9	454.5	448.0	C 6.5	453.5 13.9 C	
	4.61	459.15	12.87	454.54				
4+50			7.5	451.65	447.2	C 4.5	451.9 7.3 C	
4+36.18								
~~4+38.30~~	P.I. Δ = 45° LT		8.0	451.2	447.0	C 4.2	451.31 7.84 C	
CK. BM	0.30	452.37	7.08	452.07	= 452.83	BP End curb return E		
4+25			3.04	450.33	~~445.8~~ 446.4	C 4.5	2.00 C	
4+00			3.81	448.56	~~444.1~~ 445.5	C 4.5	3.78 C	
					Rev. Grd.			
3+50			7.30	445.07	440.6	C 4.5	7.27 C	
3+00			10.80	441.57	437.1	C 4.5	10.76 C	
TP	0.96	440.19	13.14	439.23				
2+50			2.14	438.05	433.6	C 4.5	2.12 C	
CK BM			2.94	437.25	= 438.00	Chis x (City)		
2+00			5.66	434.53	434.00	C 4.5	5.68 C	
1+69.56	P.C.C.		7.88	432.31	427.8	C 4.5	7.84 C	
1+50			9.48	430.71	426.2	C 4.5	9.52 C	

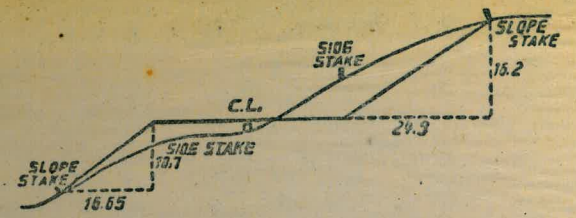
NOTE: E pipe moved 15 LT. from beginning to ℄ PT 4+36.18 4/27/55.

MUIRLANDS 12" FEEDER

		420.19		
1+25		11.41	438.78	
TP	0.36	427.47	13.08	427.11
1+00			0.60	426.87
0+75			2.60	424.87
0+50			4.22	423.25
0+27.7	P.C.C.		5.70	421.77
0+25			5.85	421.62
CK BM			9.30	418.17 = 418.33

C45	11.51 C
C45	
C45	0.74 C
C45	2.75 C
C45	4.41 C
C45	5.92 C
C45	6.07 C

BB. on Lamp Base



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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