

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.

819

1026
231
079
1380

1575165
1330
1576495

5165
72
5238

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

MICROFILMED

JAN 16 1965

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	.79	.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	1.92	2.30	2.67	3.04	3.42	3.80	4.20	4.60	5.01	5.43
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	.032	.035	.039	.043	.047	.051	.055
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	.771	.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	.895	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

ALIGNMENT AND PROFILE 30-31ST ISLAND 1-3 ✓
 " " " GAINES, BENICIA-GOSHEN 2-8 ✓
 " " " FREEDNO, YUMA-RILEY 9-11 ✓
 & Proposed Water, ANNA ST. PAC HWY - Knoxville Alice ✓
 & Profile " " " " " 12-13 ✓
 & Proposed Water, WARNER ST. Catalina - Silvergate Alice ✓
 & Profile " " " " " 14-15 ✓
 " " " " " 20-21 ✓
 OFFICE & FIELD REVISION, ANNA ST. AT PAC HWY BRIDGE ✓
 REVISED Profile " " " " " 22 ✓
 & Proposed Water Hilger, Klumber to Gibson Alice ✓
 " " " " " 23-25 ✓
 " " " " " 26-30 ✓
 COTTONWOOD ST, EARL TO 40TH Proposed Water ✓ 31-33
 BONITA DRIVE & Profile proposed water ✓ 34-35
 COBAN ST & Profile " " " " ✓ 36-37
 BONITA DR & Proposed WATER ✓ 39
 COBAN ST & Proposed WATER Alice ✓
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 & Profile, & X-SECTS, " " " " " ✓ 49-50
 " " " " " Alice ✓
 COBAN ST, BONITA DR, WY, STKS & GRDS 6" WAT ✓ 51-52
 " " " " " Alice ✓
 BONITA DR, SANTA ISABEL SWLY, " " " 8" WAT 53-55 ✓
 HILGER ST, KLUMBER TO GIBSON " " " 6" WAT 56-58 ✓
 " " " " " Alice ✓
 EUCLID AVE, ORANGE TO EL CAJON " " " 8" WAT 59-61 ✓

INDEX

ALTADENA AVE, ORANGE TO TROJAN STS & Grids 6" WAT ✓
 68-69
 RADIO DRIVE, ATTIX TO WINNET " " " 8" WAT ✓
 65-67
 FRANCIS ST, Ocean View to WEBSTER " " " WAT METS 68-69 ✓
 HARDING ST.; 37th to 38th " " " 6" WATER ✓
 70
 LIETA ST & ASHER ST " " " WAT MET 71 ✓
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 Z ST - " " " 6" AC-73 ✓
 PARADISE ST., Springfield to Todley " " " 8" AC ✓
 74-75 ✓
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 also

Alignment for P.H.
10' So. E Island St - 30-31

King West Williams 4-8-52

Williams 7+94

7+23

6+87

6+33

5+93

4+98

curb - 4+69

4+67

3+98

3+55

36

2+88

curb 2+79

1+12

0+85

0+31

Pain CONC. B.V.

Edge CONC. B.V. 7+94

West P.H. 31 ST.

6+49

6+23

5+69

5+36

5+19 - curb

4+40

4+20

4+03

3+70 - curb

3+57

2+55

2+25

2+02 - curb

5' 0+41

16' 0+40

Edge CONC. Pav 36'

16' 0+40

Guard Rail

East P.H. 30 ST

30 ST

0+00

Profile For Proposed P.L.
10' S.O. Island - 30-31st

King
West
Williams

4-8-52

cloudy

2

B.M. 2.65 116.55 113.90

B.P.S.W. Co. 30th Island

0700 2.1 114.45 ✓

0720 3.6 112.95 ✓

0750 11.8 104.75 ✓

T.P. .51 106.99 10.07 106.48

1400 6.4 100.59 ✓

1750 11.7 95.29 ✓

T.P. .74 96.11 11.62 95.37

2400 2.9 93.21 ✓

2750 6.0 90.11 ✓

3400 8.0 88.11 ✓

3750 9.2 86.91 ✓

4400 10.1 86.01 ✓

4750 11.2 84.91 ✓

5400 12.0 84.11 ✓

5750 12.9 83.21 ✓

T.P. 6.70 90.38 12.43 83.68

6400 8.1 82.28 ✓

6750 9.0 81.38

PROFILE FOR PROPOSED P.L.
10' So. to ISLAND 30-31ST

KING
WEST
WILLIAMS

4-8-52

CLOUDY

3.

90.38

80.18

7+00

9.7

80.68

7+50

10.4

79.98

7+94

11.0

79.38

CONC.
PAVE

T.P.

13.13

103.10

.41

89.97

T.P.

12.82

115.91

0.01

103.09

CK. To B.M

2.00

113.91

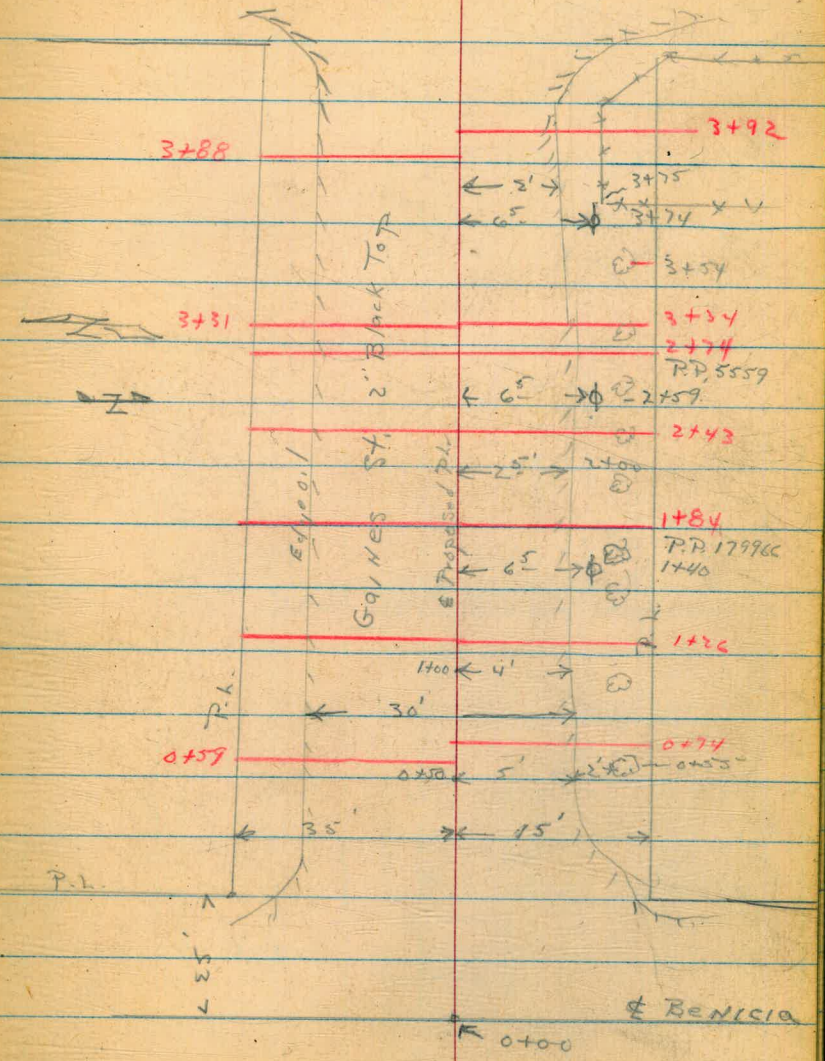
113.90

10' 50' @
Proposed P.L.
GAINES ST.
BENICIA - GOSHEN

King 4-9-52
West
Williams

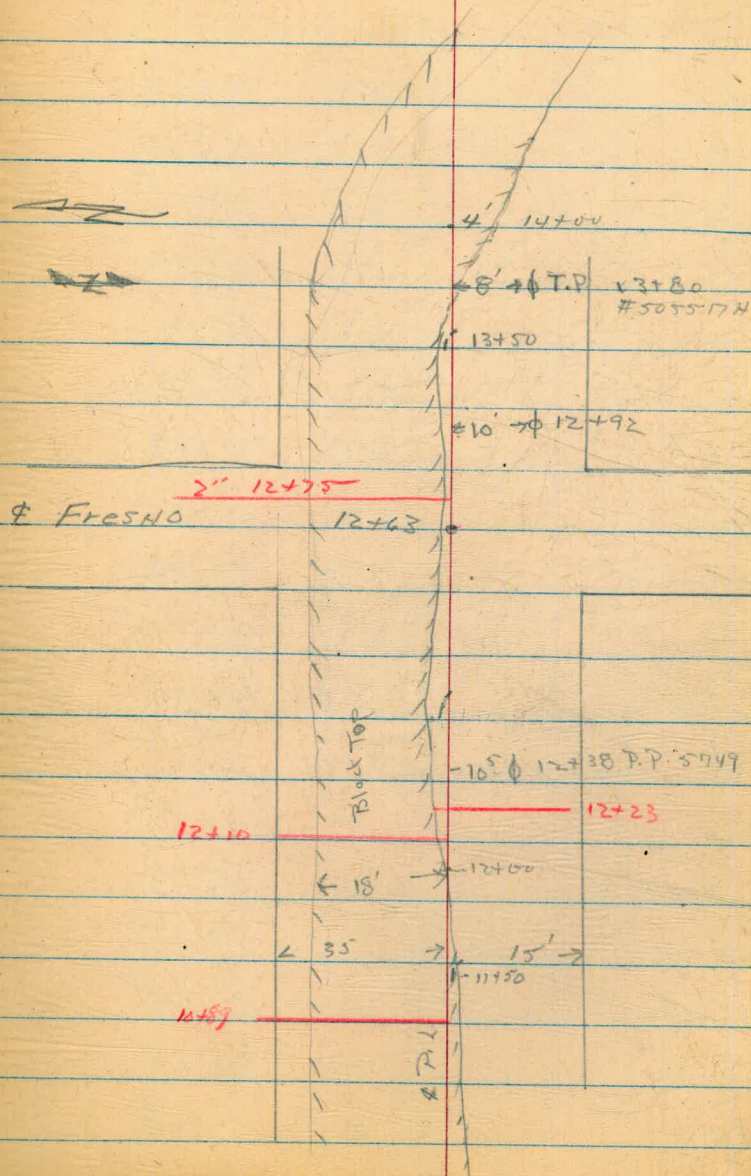
colusa

Note: For ties
See City Eng 1630-P72



Proposed P.L.
Gaines St.
Benicia - Goshen

4-9-52
KING



Profile
 Proposed P.L.
 Gaines St. Benicia - Goshen

King
 West - T
 Williams

4-9-52

7

B.M.	1.20	44.49		43.29	
0 +00			10.4	34.09	✓
+50			8.2	36.29	✓
1 +00			7.4	37.09	✓
+50			6.7	37.79	✓
2 +00			5.7	38.79	✓
+50			5.0	39.49	✓
3 +00			4.1	40.39	✓
+50			3.3	41.19	✓
4 +00			2.5	41.99	✓
+50			2.7	41.79	✓
4+70.92 A			2.6	41.89	✓
T.P.	1.32	43.73	2.08	42.41	✓
5 +00			1.9	41.83	✓
5+23.92 A			2.7	41.03	✓
5+50			3.7	40.03	✓
6 +00			6.5	37.23	✓
6+50			8.9	34.83	✓
7 +00			10.5	33.23	✓

Spike in P.P. SW - Cor Riley - Benicia - City BR 1471 P.C.C

Profile Proposed P.L.
 Gaines-Benicia-Goshen.

King 4-9-52

8

43.73

7+07			21.5	22.23	✓
7+50			9.3	34.43	✓
8+00			8.5	35.23	✓
8+50			7.0	36.73	✓
9+00			5.4	38.33	✓
9+50			3.6	40.01	✓
T.P.	13.11	53.89	2.95	46.78	
10+00			11.4	42.49	✓
+50			9.4	44.49	✓
11+00			6.8	47.09	✓
+50			4.4	49.49	✓
12+00			2.5	51.39	✓
+50			1.3	52.59	✓
13+00			1.4	52.49	✓
+50			1.8	52.09	✓
14+00			2.5	51.39	✓
14+78			3.1	50.70	✓
T.B.M.			0.90	52.99	

Top 24" G.I.P. Culvert

Q. Nail Fresno Gaines - See page 10

Proposed P.L.
Fresno St.
Yuma - Riley

King 4-9-52
West
Williams

9

± Riley St. 7+00

P.L.

P.L.

← 35' 15'



Prop. Line

X
s
P

3+17 } 8m. Below
2+05+07

P.L.

P.L.

2" Blocktop Gaines St.

3+59

3+50 - 8

3+41

3+40

P.L.

P.L.

3+21

3+09

35'

15'

2+47

Prop. L

Div. Fresno St. & Proposed Pk.

P.L.

P.L.

± Yuma

0+00

Profile Fresno St.
10' East E-Yuma-Riley

King 4-9-52
West
William

10

	+		-	
T.B.M.	1.64	54.63 53.63		52.99
	0.17	41.88 39.78	12.92	41.71 39.71
0+00			14.5	27.38
0+25			12.3	29.58
0+50			7.4	34.48
0+70			3.1	38.78
T.P.	12.58	53.65 51.65	0.81	41.07 39.07
1+00			10.2	43.45
1+25			9.7	44.55
1+50			8.1	45.55
2+00			6.0	47.65
+50			3.1	50.55
T.P.	10.67	63.29 62.29	1.03	52.62 50.62
2+00			9.2	54.09
3+30			7.9	55.39
3+35			10.4	52.89
3+41			10.6	52.69
3+59			10.4	52.89
3+65			9.5	53.79

Nail in E 991105 - Fresno St.

Edge 0.1

11 11

Profile - Proposed R.L.
Fresno - Yuma to Riley

63.29
~~62.29~~

3+81			3.4	59.89
4+00			1.5	61.79
T.P.	12.68	75.51 74.51	0.46	62.83 61.82
4+50			8.1	67.41
T.P.	12.75	87.82 86.82	0.44	75.07 74.07
5+00			11.9	75.92
5+50			4.3	83.52
T.P.	12.85	100.28 99.28	0.39	87.43 86.43
6+00			7.8	92.48
T.P.	10.16	109.58 108.58	0.80	99.48 98.48
6+50			8.7	100.88
7+00			1.1	108.48
T.P.	0.76	98.46 97.46	11.88	97.70 96.70
B.M.			10.82	87.64 86.64 87.62.

King

4-9-52

11

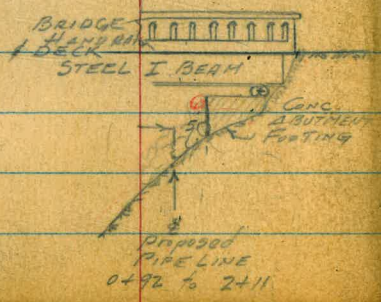
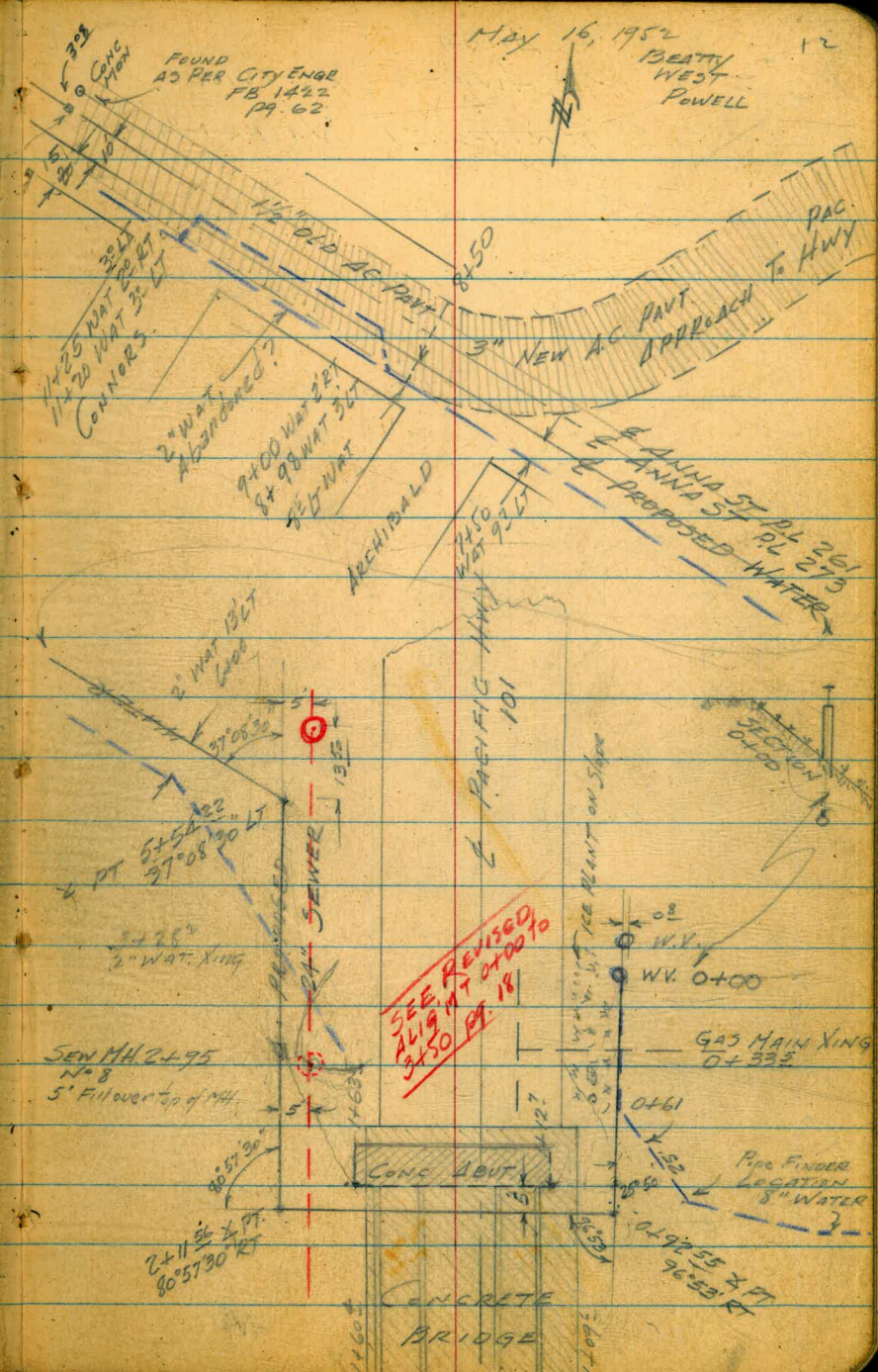
to Riley 54.

Top Pipeline Pipe N.E. Co. Euro Pat Riley

ANNA ST.
PAC HWY TO KNOXVILLE
& PROPOSED WATER MAIN

May 16, 1952
BEATTY
WEST
POWELL

- 12+76° POT
- 5+54²² X PT 37°08'30" LT.
- 2+11⁵⁶ X PT 80°57'30" RT
- 0+92²⁵ X PT 96°53' RT
- 0+00 AT. W.V



SEE REVISED
ALIGN. AT 0+00 TO
2+50 PT 18

SEW. MH. 2+95
No. 8
5' Fill over top of MH.

GAS MAIN XING
0+335

CONC. ABUT.
CONCRETE
BRIDGE

2+11⁵⁶ X PT
80°57'30" RT

Pipe FINDER
LOCATION
8" WATER
3-
2+50
96°53' RT
2+50

ANNA ST
PAV Hwy - to - KNOXVILLE
& PROPOSED WATER MAIN

25+96.67 POT.

17+87.47 POT.

E KNOXVILLE
Not Opened

E FILMORE
Dirt Road
Not Opened

E SOLIET
Not Opened

15+92 Gas Xing
FD 2" I.P.
RE 32

E RALSTON
Dirt Road
Not Opened

14+91 Gas Xing

12+76°

RD CONC Mon
& ST. 25+96.67

13



Not Opened

WAT MET 23+100 3/4 RT

NOTE: - For remainder
of Wat. Met.
Gas Xings
& width of
AC, etc. see
notes with
profile.

Not Opened
Dirt Road

Not Opened

ANNA ST.
 PAC. HWY. TO KNOXVILLE
 & PROFILE OF PROPOSED
 WATER LINE

May 19, 1952

14

BM	568	17.05	11.37						
0+00			3.8	13.3					
0+00			10.70	6.35					
0+50			3.0	14.1					
0+61			2.3	14.8					
0+71			3.0	14.1					
0+92 ⁵⁵ X PT			8.6	8.5					
1+00			8.8	8.3					
4P	5.11	13.50	8.66	08.39					
1+09 ⁵			+7.55	21.05					
			0.80	12.7					
1+16 ⁵			+1.70	15.20					
1+50			5.4	8.1					
1+54			+1.70	15.20					
			0.80	12.70					
1+60 ⁴			+7.52	21.0					
2+00			4.9	8.6					
2+11 ⁵⁶ X PT			5.5	8.0					
2+25			2.0	11.5					

NAIL IN Pole 150' LT 0+00

LEFT

8.2

10

1.8

4

11.2

10

RIGHT

Top of VAL. STAIN
 SEE SKETCH

5.0

4

1.2

3

11.9

10

5.6

10

Bottom of Conc. DECK of Bridge

Top Conc. abutment 5² RT, 1+12⁷⁰

Bottom of Steel I beam girder

Net. GRD.

8.6

10

5.4

5

3.1

5

0.8

5

0.8

10

Bottom of steel I beam girder

{ Top Conc. abut 5² RT 1+63⁵ 6.8 5.1 1.8 0.8 0.8

Bottom of Conc. DECK of Bridge

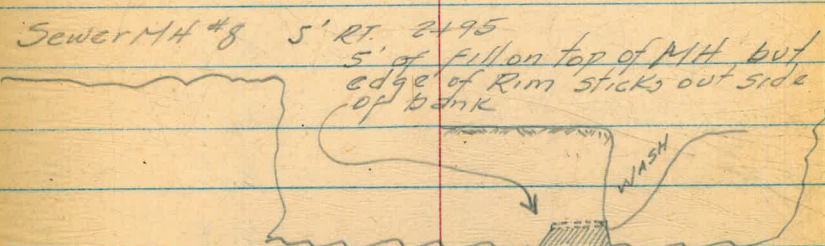
ANNA ST.
(Cont'd)
E Profile

5-19-52

15

	13.50		
2+30		4.0	9.50
+50		4.2	9.3
+75		3.0	10.5
3+00		3.3	10.2
P +50	4.65	14.15	4.00 09.50 ✓
	Rim 8.45	5.70	Unable to get Inv.
4+00		4.3	09.85 ✓
+50		3.8	10.4 ✓
5+00		4.2	10.0 ✓
+54.22 X PT		4.4	9.8 ✓
6+00		4.9	9.3 ✓
+50		6.5	7.7 ✓
7+00		8.2	6.0 ✓
+50		9.1	5.1 ✓
+85 Edge of A.C.		8.7	5.45 ✓
8+00		9.2	4.95 ✓
P +50	4.26	09.60	8.81 05.34 ✓
+50		5.2	4.2 ✓
9+00		5.6	4.00 ✓

3+28 2" WAT. Xing.



El. Rim of Sew MH → 08.8
05.4 } see sketch of location & Alignment 12
El. Top of 24" Sew. - 04.6
18.8
6+00 WAT. 13' LT

Edge of A.C. 23' RT WAT. 9' LT
- Edge of A.C. 28' RT
" " " 5' LT 28' RT

NAIL IN POLE SE COR Archibald & Anna
{ End New A.C., Begin old A.C., Edge of A.C. 5' LT
{ WAT. 8' LT
" " " 5' LT

ANNA ST.
& Profile
(Cont'd)

5/20/52

16.

09.60

9+50	5.6	4.00 ✓	Edge A.C	45°	LT.	
10+00	5.7	3.9 ✓	" "	40°	"	WAT. 6° LT
+50	5.7	3.9 ✓	" "	35°	"	
11+00	6.1	3.5 ✓	" "	45°	"	WAT. 6° LT
+50	6.2	3.4 ✓	" "	30°	"	11+20 WAT. 30° LT 11+25 WAT. 20° RT 16° RT
12+00	6.3	3.3 ✓	" "	30°	"	
+50	6.3	3.3 ✓	" "	30°	"	
13+00	6.5	3.1 ✓	" "	25°	"	WAT. 30° LT
+50	6.4	3.2 ✓	" "	10°	"	
14+00	6.3	3.3 ✓	" "	20°	"	
+50	6.2	3.4 ✓	" "	20°	"	WAT. 20° LT
P	3.90	07.16	6.34	03.26		14+91 Gas Xing
SECTION	4.47	02.69				on 2" I.P SW Cor Ralston & Anna
15+00	3.9	3.3 ✓	A.C	40°	LT	
+50	3.8	3.4 ✓	"	40°	LT	
16+00	4.0	3.2 ✓	"	"	"	15+94 Gas Xing
+50	4.2	3.0 ✓	"	30°	"	16+00 WAT. 10° LT 16+24, 14° LT WAT. MET
17+00	4.3	2.9 ✓	"	50°	"	12' RT
+50	4.6	2.6 ✓	"	80°	"	11' RT

ANNA ST.
& Profile
(Cont'd.)

5/20/52

17

07.16

18+00	4.8	2.4 ✓	1/2 A.C. 9° LT, 9° RT		
+50	4.9	2.3 ✓	" 10° LT, 8° RT.		
19+00	5.1	2.1 ✓	" 12° LT, 8° RT.		
+50	4.9	2.3 ✓	11° LT, 5° RT 19+35, 12° RT WAT. MET.		
20+00	5.0	2.2 ✓	" 5° RT		
+50	5.1	2.1 ✓	" 6° RT		
21+00	5.0	2.2 ✓	" 5° RT		
+50	5.2	2.0 ✓	" 6° RT 15° LT, 21+56, WAT. MET.		
22+00	5.6	1.6 ✓	" 5° RT (9° RT, 21+77 WAT. MET)		
+50	5.4	1.8 ✓	" 9° LT, 9° RT		
P	4.64	06.40	05.40	01.76	
23+00	4.6	1.80 ✓	" 12° LT, 12° RT	WAT. 2° LT	
+50	4.8	1.6 ✓		WAT MET 31° RT.	
24+00	4.9	1.5 ✓	" 11° LT, 10° RT	END OF WATER.	
+50	5.0	1.4 ✓		End of A.C.	
25+00	5.3	1.1 ✓			
+50	5.3	1.1 ✓			
2496.67	5.6	.8 ✓			
26+00	5.7	.7 ✓			

ANNA ST.
E. Profile
(Cont'd)

5/20/52

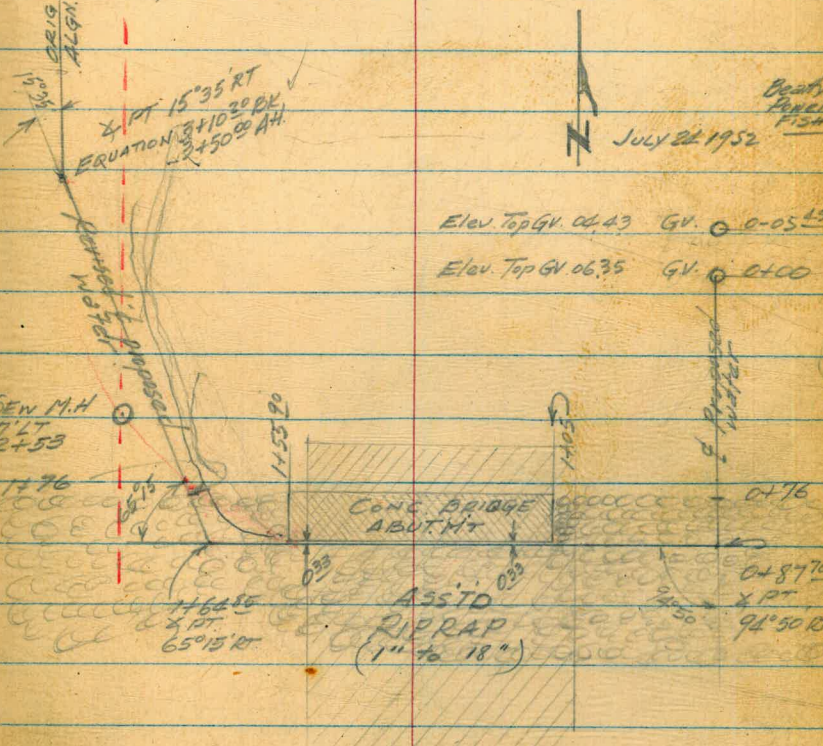
18.

	06.20			
SET TBM	06.55	06.53	06.42	-0.02
CK TBM	4.87	07.57	03.83	02.70
CK TBM	14.68	19.99	02.26	05.31
CK BM	3.80	15.17	8.65	11.34 = 11.37

REVISED E PROFILE STA 0400 to 3450

Top of GV. 0-05 ⁴⁵	10.74	04.43	
0450	11	14.1	
+67	00	15.2	
+76 Begin Riprap	0.6	14.7	
+83	1.2	14.0	
0487 ⁷⁰ X PT (94°50' RT)	2.4	12.8	
(on Conc. Abut)	2.47	12.70	(0 ³³ RT)
1405	2.5	12.7	
(on Conc. Abut)	2.46	12.71	(0 ³³ RT)
1455 ⁹⁰	2.6	12.6	
1464 ⁸⁵ X PT (65°15' RT)	2.8	12.4	
5.07 17.62	2.63	12.54	
1476 END RIPRAP	4.8	12.8	
1485	3.3	14.3	
2400	3.9	13.7	
+50	7.5	10.1	
3400	7.8	09.8	
34102 = BK (2 PT 15°35' RT)	8.1	09.5	
3450 AH.	7.8	09.8	

CONC MEN. 10' RT 254.96
 on 2" I.P. Prop Cor S.W. Cor Ralston & Anna
 Nail in pole SE Cor Anna & Archibald
 Nail in pole 150' LT. 0400



(SEE Page 22.)

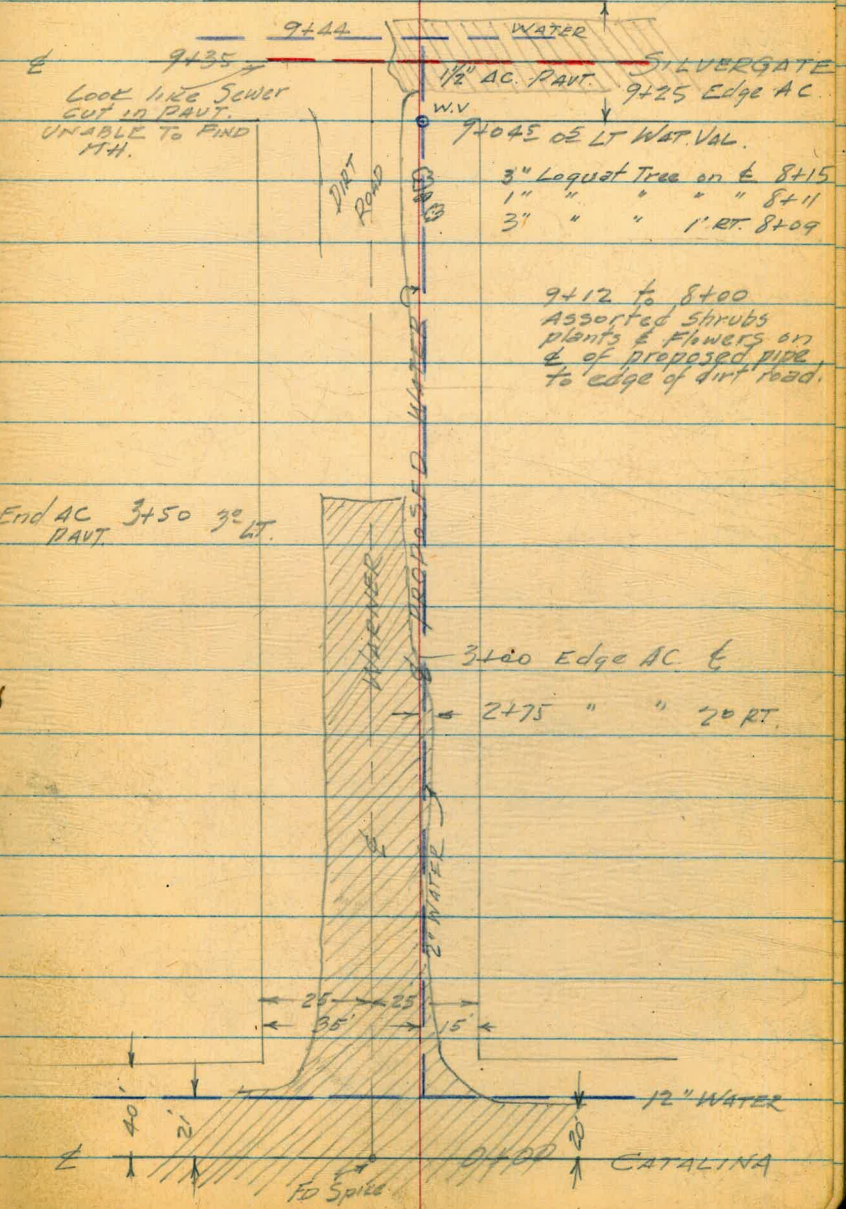
DEWibon

WARNER ST
 CATALINA TO SILVERGATE
 & PROPOSED 6" WATER LINE

May 21, 1952

19

BEATTY
 WEST
 POWELL
 KEND
 VARONFARIS



9+44
 9+135
 Look 1 1/2" Sewer
 CUT IN PAVT.
 UNABLE TO FIND
 M.H.

WATER
 SILVERGATE
 1/2" AC. PAVT. 9+25 Edge AC.
 W.V.
 9+045 OE LT WAT. VAL.
 3" Logquat Tree on E 8+15
 1" " " " 8+11
 3" " " 1' RT. 8+09

9+12 to 8+00
 Assorted shrubs
 plants & flowers on
 E of proposed pipe
 to edge of dirt road.

End AC 3+50 32 LT.
 PAVT.

3+120 Edge AC. E
 2+75 " " 20 RT.

25' 25'
 35' 15'
 40' 2'
 12" WATER
 CATALINA
 TO Splice

WARNER ST.
CATALINA TO SILVERGATE
& PROFILE OF
PROPOSED WATER

BM	0.47	304.07		293.60
IP	9.22	312.64	0.65	303.42
IP	0.16	299.93	12.87	299.77
SET. TBM			13.10	286.83
0+00			13.10	
+20			13.45	
+40			13.5	
1+00			10.1	
+50			6.8	
2+00			3.5	
+50			0.3	
IP	12.95	312.72	0.16	299.77
3+00			9.5	
+50			6.0	
4+00			3.4	
+50			1.8	
5+00			1.5	
+50			2.3	
6+00			4.2	

MAY 21 1952

2

BP. on curb 85' So S. prop line of Dudley on Silvergate

on & Nail 0+00 (& Catalina & of pipe)

& Catalina

Edge of AC. pavt Catalina

1+33 27' LT WAT. MET

1+63 9' RT WAT. MET

2+46 27' LT WAT. MET

2+75 9' RT WAT. MET

3+35 9' RT WAT. MET

3+58 28' LT WAT. MET

3+81 9' RT. WAT. MET

4+64 28' LT. WAT. MET & 9' RT. WAT. MET

5+64 29' LT WAT. MET

5+94 9' RT WAT. MET

6+02 15' RT MAIL BOX

WARNER ST.
(Cont'd)
E Profile

5/21/52

21

	312.72		
6+50		6.3	
7+00		8.9	
P	0.37	303.77	9.32 303.40
+50		2.8	
8+00		5.4	
+50		8.3	
9+00		11.2	
+08		12.0	
+10		12.9	
+50		13.9	
CK B.M.		10.17	293.60

6+92 9' RT. WAT. MET. →

7+52 9' RT WAT MET. →
7+58 28' LT WAT. MET.

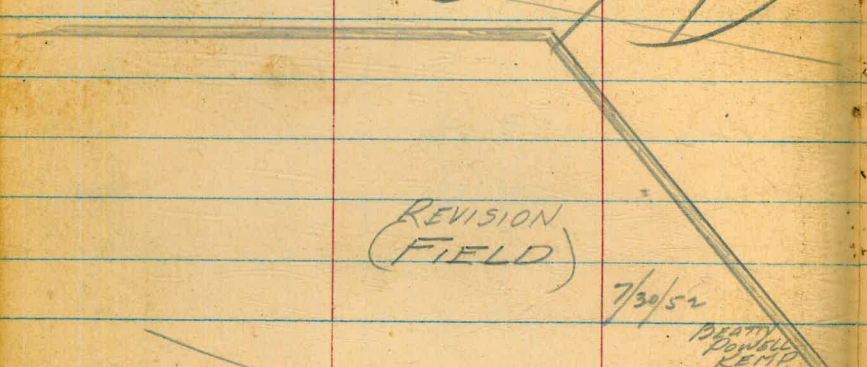
7+05 5' RT 8" Tree

Edge Road 2° LT

Edge Road 4° LT

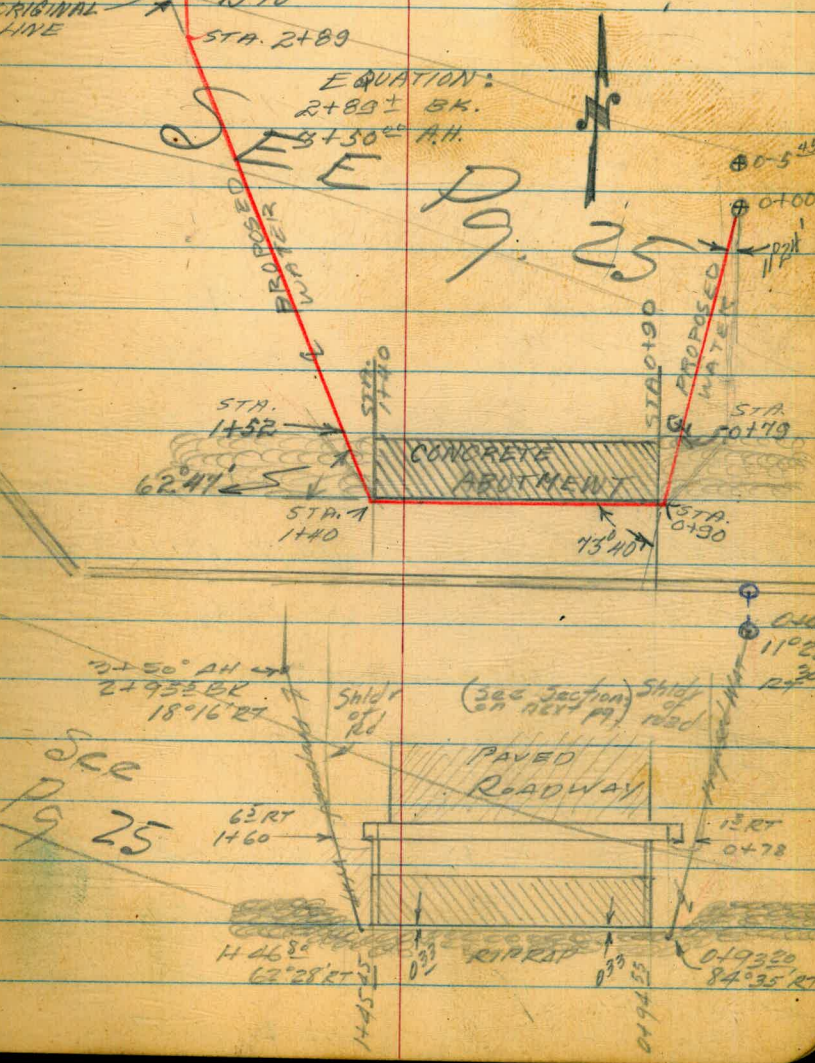
" " 5° LT

STA.	REVISION (OFFICE) ANGLES	FITTINGS
0+00 X RT.	11° 24'	1-11 1/4° BEND
0+90 X PT. RT.	73° 40'	1-90° 1-11 1/4° BENDS
1+40 X PT. RT.	62° 49'	1-11 1/4° BENDS
2+89 X PT. RT.	19° 0'	1-22 1/2° BEND



3+50⁰⁰ AH
 2+955 BK X RT 18° 16' RT
 1+60 62 RT TO FACE of Bridge Abut
 1+4680 X RT 62° 28' RT
 1+45.45 } Edge Conc ABUT.
 0+94.55 }
 0+93.20 X PT 84° 35' RT
 0+78 12 RT TO FACE Bridge Abut.
 0+00 X PT 11° 22' 30" RT ± (No definite BK TANGENT)

Revised Anna St. pipe line
 at the crossing of Pacific Hghy.
 by: D.E. Wilson



See Pg 25
 2+50° AH
 2+955 BK 18° 16' RT
 62 RT 1+60
 1+4680
 62° 28' RT
 1+45.45
 0+93.20 84° 35' RT
 0+78
 12 RT
 0+78
 5+07.9
 11° 22' 30"
 2+89
 19° 0'

REVISED PROFILE
ANNA ST. AT
PAC. Hwy Bridge

7-31-52

25

BM	12.21	23.58	11.37	RT.	LT.
0+00		10.3	13.3	(8.5) 15.1 5	(18.3) 5.3 5
0+50		3.6	20.0	(11.0) 6.6 5	(21.0) (21.0) 2.6 2.6 3 5.5 Edge of Berm
0+65		2.6	21.0	(18.4) 5.2 5	(21.1) 2.5 3 Edge of Berm
0+78		2.4	21.2	(15.4) (20.8) 8.2 2.8 9 2	(21.2) 2.4 1.3
0+93.20		10.9	12.7		
0+94.55		10.9	12.7		
0+94.55 on Conc Abut 0 ²³ RT		10.88	12.70		
1+45.45 " " " " "		10.87	12.71		
1+46.80		11.0	12.6		
+57		5.9	17.7	(13.4) (17.6) 10.2 6.0 15 Edge R/R 1	(20.0) 3.6 5 (21.3)
+65		4.6	19.0	(14.2) (14.2) 9.2 9.2 15 15	2.3 2.3 5 9 Edge of Berm
2+00		9.7	13.9	(11.8) (11.9) (13.2) 11.8 11.7 10.6 15 5 4	(16.3) (21.2) (21.3) 7.3 2.4 2.3 7 15 18 Edge of Berm
2+50		13.7	09.9		
2+95 ⁵⁰ OK		14.1	09.5		
3+50 A.H.					
OK BM		12.21	11.37		

Field &
Office together
West & Wilson
SEA +

Revised Profile
ANNA St At Bridge
45 -

	6.52	16.02		9.50
2+50			6.3	9.7 ✓
2+00			3.4	12.6 ✓
1+69			1.3	14.7 ✓
1+64 ²			2.4	13.6 ✓
1+45 ³			3.6	12.4 ✓
	6.87	14.56	8.53	7.49
0+92 ⁸			1.4	13.0 ✓
	7.76	19.73	2.59	11.77
			8.65	10.9
0+65 ⁸			4.8	14.7
0+50			5.4	14.1
0+00			5.79	13.94 15.3
			13.06	6.47
			8.14	6.67
				11.39
				11.59

Nail 3+35

edge abut

	3.9	2.6	2.0	0.7
	10.2	3°R	5°R	10R
	12.5	3.2	19.6	
	10.2	10.2	6°R	
	6.1	10.2	3.3	Bridge Abt
			12°R	
	4.9			
	10.2			
	5.0	4.5	0.0	
	10.2	2°R	10R	
	12.43	7.1	2.1	17.43
	5.2	5°R		

Top Gate Valve

11.37 BM

Wilson
West

Revised Pipe Line
Anna St.

CR'd by WEST & party.
8/30/55

25

PROPOSED
WATER

3+50 AH.
2+96 BK. $\times 15^{\circ}43'$ RT.

1+64² $\times 20^{\circ}09'$ RT.

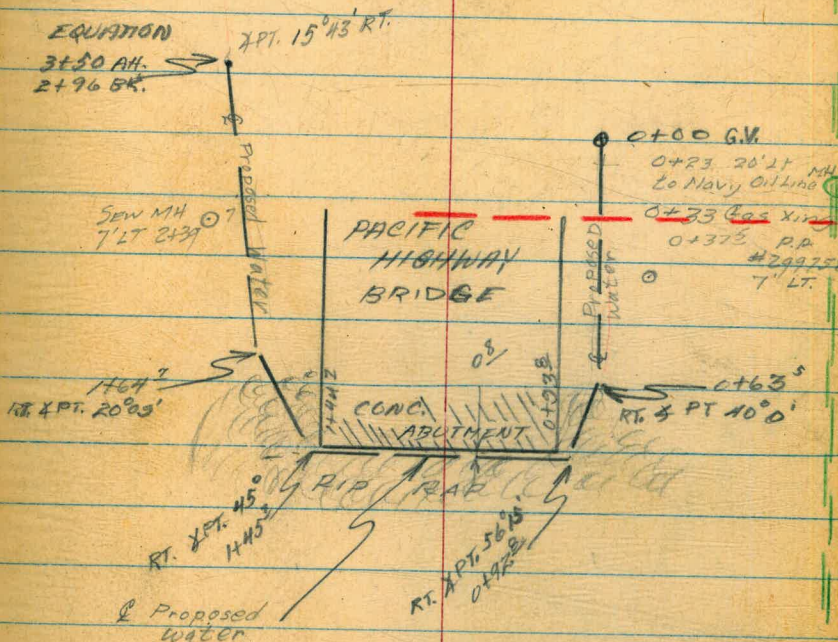
1+45² $\times 45^{\circ}$ RT.

1+44² } Conc. ^{0.5' RT} 6" RT.
0+93² } Abut. for Pipe

0+92² $\times 56^{\circ}15'$ RT.

0+63⁵ $\times 40^{\circ}$ RT.

0+00



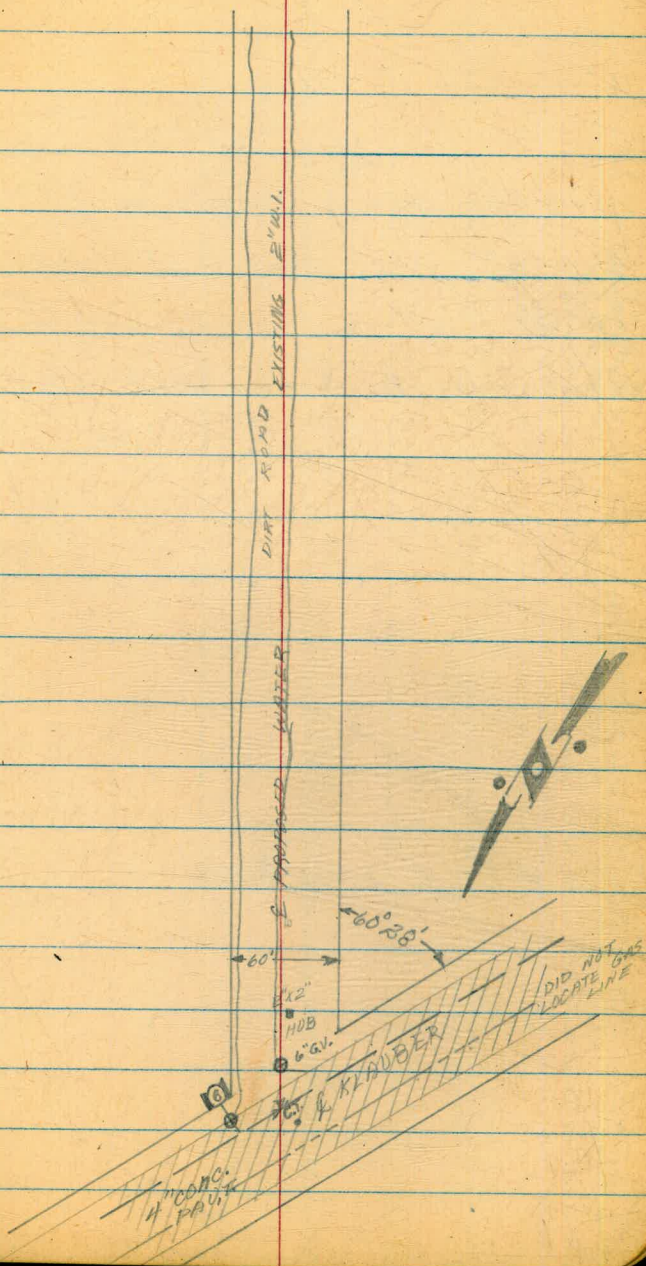
Hilger St.
Klauber to Gibson
Q Proposed Water Main

Wilson
Martell
Varonfakis

Aug. 29, 1952

26.

- 0+90¹⁵ 10' RT 90° to 2"x2" HUB
0+46 South Edge of Pav't. } 4" CONC
0+23 North Edge of Pav't. } PAVT.
0+00 North Prop. Line Klauber

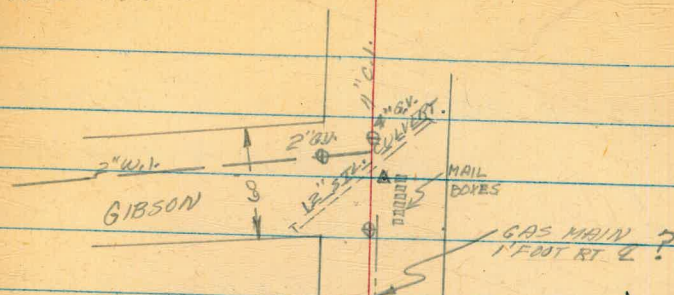


Cont.

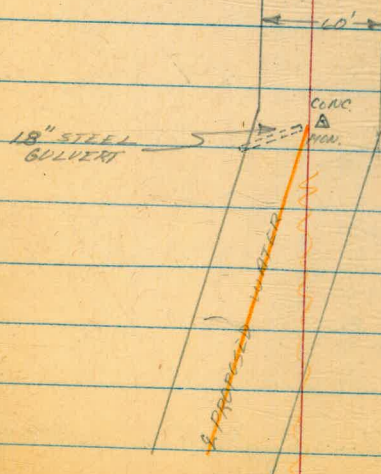
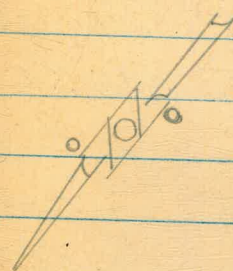
Hilger St.
Klauber to Gibson
Proposed Water

Wilson
Martell
Varonakis

Aug. 29, 52 27.



Gas line 35
per drawing
of S. D. Gas
& Electr. Co.,
Gas Dept.
RPP



- 15+78^{el} South Prop. Line of Gibson
- 15+48^{el} CONC. MAN. L of Hilger & Gibson
- 15+41 12" STL. CULVERT WITH TOP OF PIPE AT GROUND LINE
- 15+30 to 15+48 6 MAIL BOXES 6' RT.

10+14³³ X LT. 28°15'

Hilger St.
 & Profile
 Klauber to Gibson

STA	+	HI	-	
BM	2.60	405.03X		402.427
0+00			+1.0	404.03
0+23			4.13	400.9
0+46			4.47	400.6
0+50			4.7	400.3
1+00			8.4	396.6
1+50			12.5	392.5
TP	1.36	393.87	12.52	392.51
2+00			6.7	387.2
2+50			12.3	381.6
TP	1.62	382.39	13.10	380.77
3+00			4.0	378.4
3+50			5.7	376.7
4+00			6.2	376.2
4+50			7.2	375.2
5+00			8.2	374.2
5+50			10.0	372.4
6+00			12.0	370.4
TP	0.55	371.32	12.62	369.77

Wilson
 West
 Martell
 Varonakis

Aug. 29, 52 28.

LET & ATTIX & KLAUBER

~~N. Edge Pavt on KLAUBER~~

N. Edge Pavt

S. Edge Pavt

Rock in Hilger

Rock in Hilger

Rock in Hilger

8.4 5.3 3.4
 4.0' 7' 10' RT
 12.2 10.9 10.4
 3' 5' 10' RT.

6.5 4.2 3.4
 2' 6' 10' RT
 12.1 9.5 8.8
 2' 4' 10' RT.

3.7 3.3
 1' 10' RT

6.8 8.3
 2' 10' RT

7.6 9.9
 3' 10'
 10.0 9.8 11.7
 2' 3' 10' RT.
 12.4 12.1 15.0
 2' 4' 10'

Hilger
& Profile
Klauber to Gibsons

Wilson
West
Martell
Varontakis

Aug. 29, 1952 29.

Sta.	+	HI				
6+50		370.32	2.9	367.4		SAME AS 6+00 @ 7+00
7+00			5.7	364.6		5.7 5.3 7.8 2' 3' 10' RT.
7+50			8.7	361.6		SAME AS 7+00 @ 8+00
8+00			13.0	357.3		13.0 12.6 4.7 3' 5' 10' RT
TP	0.65	359.18	11.79	358.53		
8+50			3.7	353.5		SAME AS 8+00 @ 9+00
9+00			10.0	349.2		9.9 9.3 11.1 3' 5' 10' RT.
9+50			12.1	347.1		
TP	1.41	347.65	12.94	346.24		Rocks in Hilger
10+00			3.0	344.7		
10+14 ²³			4.1	343.6		2.9 6.8 2' 10' RT.
10+18 ⁺			5.3	342.4		Flow line 18" I.D. CULVERT -3.6 ^{rod} 20' LT.
10+50			4.9	342.8		4.9 7.9 1' 10' RT.
11+00			6.6	341.1		6.9 10.2 2' 10' RT
11+50			8.2	339.5		SAME AS 11+00 @ 12+00
12+00			10.2	337.5		9.7 13.0 2' 10' RT
12+50			13.0	334.7		
TP	0.81	335.76	12.70	334.95		Rock in Hilger.
13+00			3.5	332.3		3.0 6.1 2' 10' RT

Hilger St.
 L Profile Klauber & Gibson

Wilson
 West
 Martell
 Varantakis

Aug. 29, 1952 30.

Sta		HI 333.76		
13+50			5.9	329.9
14+00			9.2	326.6
14+50			12.5	323.3
TP	3.43	326.51	12.68	323.08
15+00			6.4	320.1
15+48 ^{el}			9.2	317.3
15+78 ^{el}			11.9	314.6
IP			3.86	322.65 322.7
2" GV			7.6	318.9
TP	11.88	337.42	0.97	325.54
TP	11.20	347.08	1.54	335.88
TP	12.47	357.95	1.60	345.48
TP	12.55	369.89	.61	357.34
TP	11.15	380.46	0.58	369.31
TP	11.39	391.06	0.79	379.67
TP	12.34	402.85	0.55	390.51
TP	4.60	405.11	2.34	400.51
OK BM			2.71	402.40 =

SAME AS
 13+00 & 14+00
 8.7 11.6
 2' 10' RT

6.4 9.5
 5' 10' RT

Rock in Hilger

2" Iron Pipe on
 SE corner Gibson & Hilger

2" GV. SE corner Gibson Hilger

402.42.7 L&T & Klauber & Atlix

COTTON WOOD ST
 EARL ST. To 40TH
 & Profile proposed WATER

BM.	0.00	53.06	53.06
IP	0.92	40.88	13.10 39.96
IP	0.13	28.00	13.01 27.87
IP	4.25	19.73	12.52 15.48
0+00	= Wly Pappine Earls	8.5	11.2
+50		8.0	11.7
1+00		7.8	11.9
+50		6.1	13.6
1+515		5.95	13.8
+52	} & Ditch.	10.1	9.6
+575		9.9	9.8
+63		9.7	10.0
1+64		5.85	13.9
1+9305		5.9	13.8
2+00		6.0	13.7
		5.95	13.8
		12.15	7.6
+50		4.8	14.9
2+73		5.05	14.7
+74		9.3	10.4

Nov 26, 1952

Baugh
 Powell
 Alexander

31.

BP NW Cor 40TH & Fpsiden.

Edge Bridge

Edge Bridge

N. Rim Sewer M.H. 65 LT 2+01
 100' 8" SEW

5.5 3.9 4.7 5.9 5.8
 5 2 2 2 5

Edge Bridge

COTTON WOOD ST.
(cont'd)

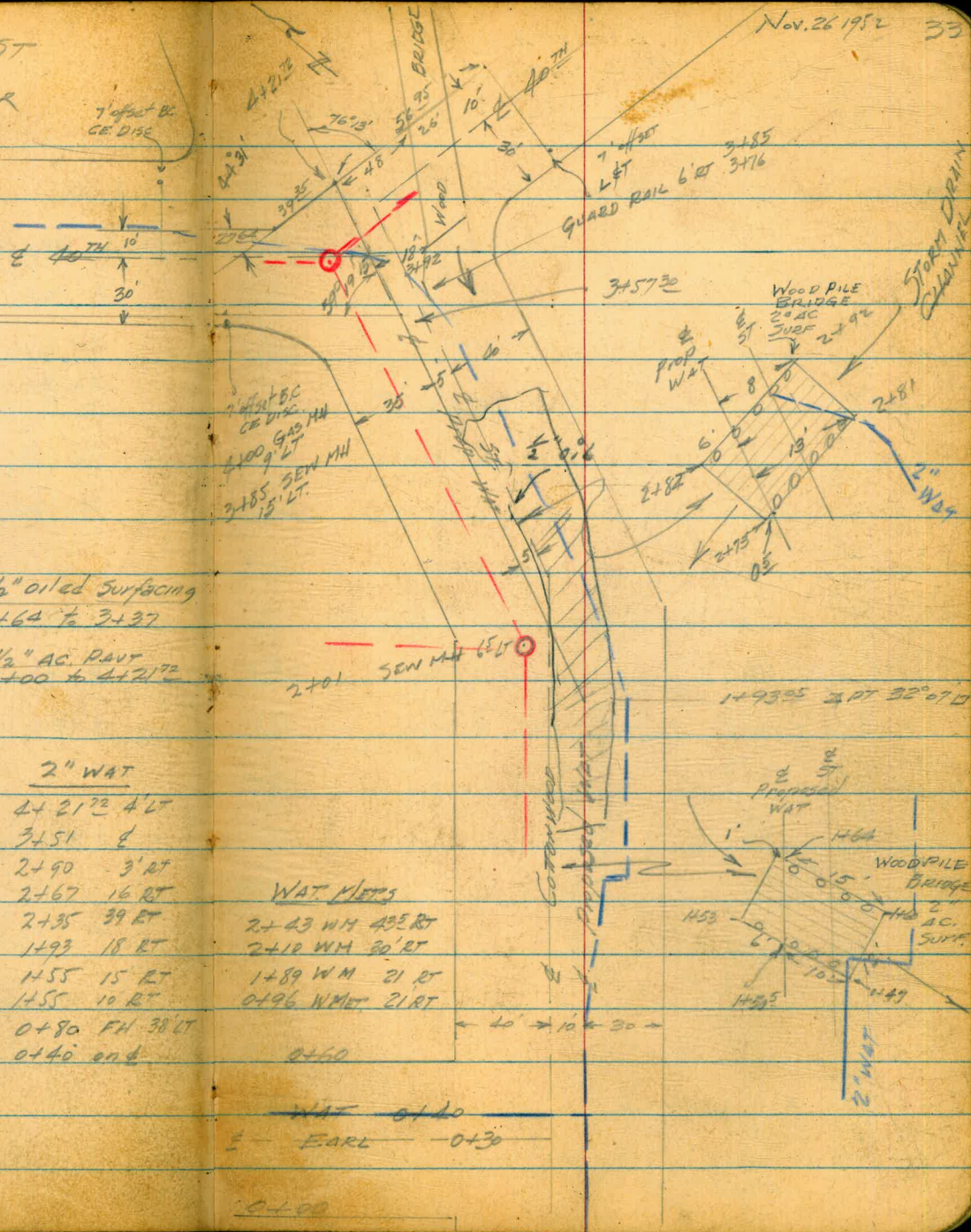
11-26-52

32

	19.73				
2+86 ✓		8.8	10.9		
2+87		4.90	14.8	Edge Bridge	
3+00		4.9	14.8		
+513		5.0	14.7		
		5.31	14.4		
		10.60	9.1	N. Rim Sew. MH 15' LT.	3+85
4+00		5.5	14.2		
+2172		5.45	14.3		
6' Nor	} 4+2172	5.6	14.1		
3935 Nor		4.95	14.8		
6699 Nor		5.1	14.6		
48' So	} 4+2172	4.30	15.4	Edge BRIDGE	
49' So		8.70	11.0	} E DITCH	
73' So		8.60	11.1		
74' So		4.25	15.5	Edge Bridge	
SET TBM	12.77	28.07	4.43	15.30	on City Edge Disc 7' off BC. RET NE Cor Cottonwood #4072
IP	13.35	41.24	0.18	27.89	
II	11.93	53.11	0.06	41.18	
CK BM			0.05	53.06 = 53.06	

COTTONWOOD ST
& Proposed WATER

Nov. 26 1952 33



4+217.2 3 PT 76°13' RT L&T

1/2" oiled Surfacing
1+64 to 3+37

2 1/2" AC. PAVT
4+00 to 4+217.2

1+93.05 5 RT 32°07' LT

2" WAT

- 4+217.2 4' LT
- 3+51 4'
- 2+90 3' RT
- 2+67 16' RT
- 2+35 39' RT
- 1+93 18' RT
- 1+55 15' RT
- 1+55 10' RT
- 0+80 FH 38' LT
- 0+40 end

WAT METS

- 2+43 WM 43' RT
- 2+10 WM 30' RT
- 1+89 WM 21' RT
- 0+96 WM 21' RT

0+60 Ely PL EARL ST

0+30 & EARL

0+00 Wly PL EARL ST

WAT 0+40
EARL 0+30

0+00

BONITA DRIVE
 (ALSO 45. LOMA AVE, MAP 2852)
 & PROFILE OF PROPOSED WATER

DEC 3, 1952

34

BM	0.26	210.66	210.20	Top Ft Santa Isabel & Bonita Dr	MARK'D 210.04
ck P		7.48	203.18 = 203.17	See F.B. 786. pp. 7	
				LEFT	
9+84		2.0	208.7	Edge Conc PAVT	3.15 10
+50		3.8	206.9	" " "	3.92 10
+33.90		4.0	206.7	End Conc PAVT Begin AC PAVT	4.08 10
9+00		6.1	204.6	4" Edge AC PAVT	5.65 10
+50		7.5	201.2	" " "	9.50 10
8+00		13.2	197.5	" " "	13.87 10
P	0.06	197.34	13.38 197.28		
7+53 x PT		3.55	193.8	" " "	4.10 10
+27.5 (End AC PAVT 10' LT)		5.3	192.0	End 2" " Begin 3/2" AC	5.90 10
7+00		7.0	190.3	3/2" AC	7.05 1
+50		10.2	187.1	" " "	12.4 3
8+00 6+00		13.35	183.99	" " "	13.38 2
P	0.26	184.32	13.28 184.06		
+74		2.45	181.9		2.45 on AC PAVT
+50		3.55	180.8		
5+48 ³⁵ = BONITA DRIVE		3.65	180.7		
12+26 ³ COBAN ST					
DET TBM		2.32	182.00	on Comp'ed fdn of Conc Block Wall SE COR BONITA DR & COBAN	

BONITA DRIVE
(Cont'd.)

12-3-52

35

	184.32			
5+40		4.3		180.0
5+00		7.4		176.9
+50		10.9		173.4
HP	126	172.28	13.30	171.02
4+00		2.1		170.2
+50		3.8		168.5
3+00		5.3		166.98
+50		6.7		165.6
2+00		8.0		164.3
+50		9.8		162.5
1+00		11.1		161.2
+50		12.8		159.5
HP	2.86	162.53	12.61	159.67
0+00		4.8		157.7
		6.92		155.6
SET TBM		4.11		158.42
HP	3.64	166.17	0.00	162.53
ID	5.41	167.88	3.70	162.47
SET TBM	12.09	175.70	4.27	163.61

LEFT

4.35
4
Edge AC Pavt.
" " " 7.20
" " " 2.5
" " " 10.95
2
" " " 2.00
15
" " " 4.90
15
" " " 5.49
10
" " " 6.65
20
" " " 8.05
1
" " " 9.48
15
" " " 10.95
15
" " " 12.65
15

END NAIL ON FEN COR

Top 8" C.I. existing pipe
COR, END CONC CURB.

NAIL IN POLE

COBAN ST. (PER MAP 2852)
 (Also as BONITA WAY - (SIGN POST))
 E PROFILE PROPOSED WATER

DEC 4 1952

36

Station	Grade	Profile	Elevation
		175.70	
0+00	13.7		162.0
		17.70	158.0
+50	12.0		163.7
1+00	10.3		165.4
+50	8.6		167.1
2+00	7.3		168.4
+50	6.0		169.7
3+00	4.8		170.9
+50	3.6		172.1
4+00	2.7		173.0
+26 ⁶³	2.9		172.8
		6.90	168.8
4+93	0.14	185.39	175.56
7+23 ³	6.9		178.5
		8.82	176.6
+25	6.3		179.1
+50	6.2		179.2
8+00	5.7		179.7
+50	5.3		180.1

Top 6" A.C. Existing pipe 0+00

Begin 7" A.C. Pipe } 4+26⁶³
 Top of existing pipe

End 7" A.C. Pipe } 7+23³
 Top of existing pipe

Ground line very irregular, pipe line recently water settled

Coban St
(Cont'd.)

	185.39				
9+00		4.9		180.5	
+50		4.6		180.8	
10+00		4.5		180.9	
+50		4.7		180.7	
11+00		5.1		180.3	
+50		5.6		179.8	
12+00		6.5		178.9	
+06		5.95		179.4	Edge A.C. PAVT.
12+26 ³		4.75		180.6	Intersection
CK BM	13.16	195.16	3.39	182.00 = 182.00	□ on Conc fda of Conc Blk Well SE Cor ^{Coban &} Barrita Dr
IP	11.88	206.47	0.57	194.59	
IP	5.38	211.26	0.59	205.88	
CK BM			1.07	210.19 = 210.20	Top FH. NE Cor Barrita Dr & Santa Isabel

BONITA DRIVE
& Proposed WATER

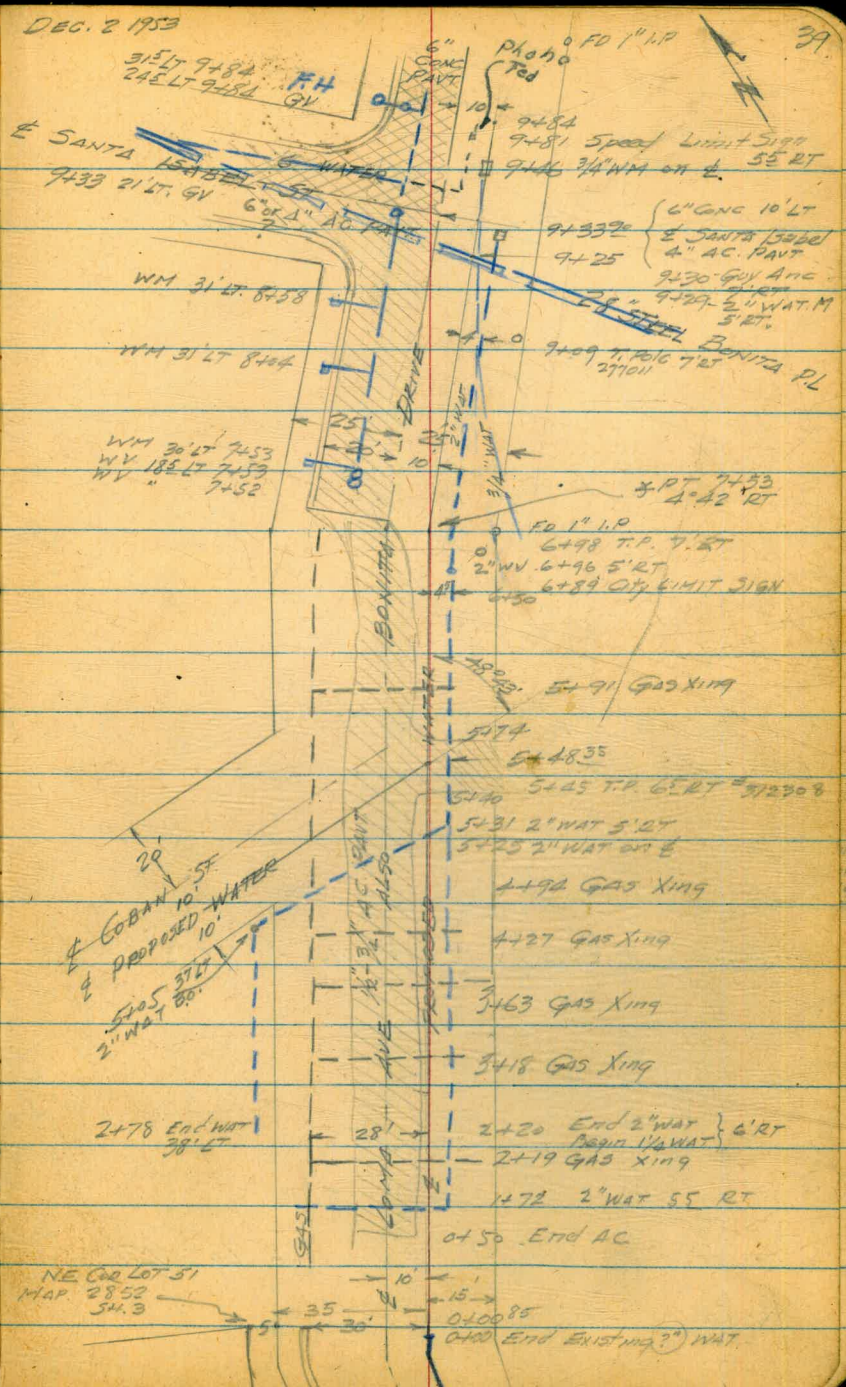
9+84 End of proposed water

9+53 4'42" RT

5+4835 Bonita Dr (= 12+263 Coban St.)

0+00⁸⁵ (90° LT 40.16' to NE Cor Lot 51)

0+00 = End (?) Water 509.62
 $\frac{12.5}{522.12}$ NEW
 from E of ARROYO



COBAN ST
 & PROPOSED WATER

12+263 Intersection with proposed WAT
 Bonita DR

7+233 END EXISTING WAT.

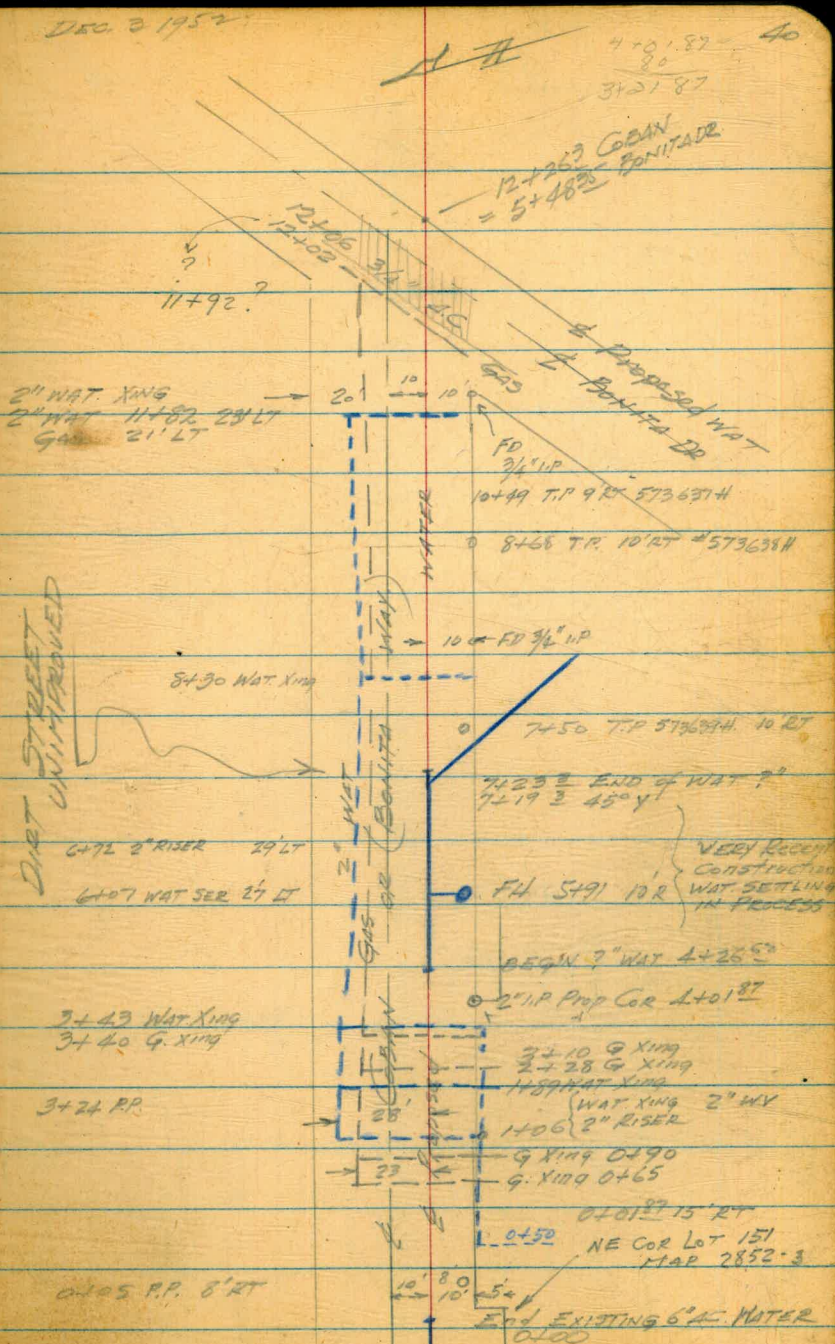
7+193 45° Y

4+2633 BEGIN EXISTING 2" PIPE

0+0187 15' RT NEly Cor Lot 151

0+100 End 6" A.C. pipe

Dec 2 1952



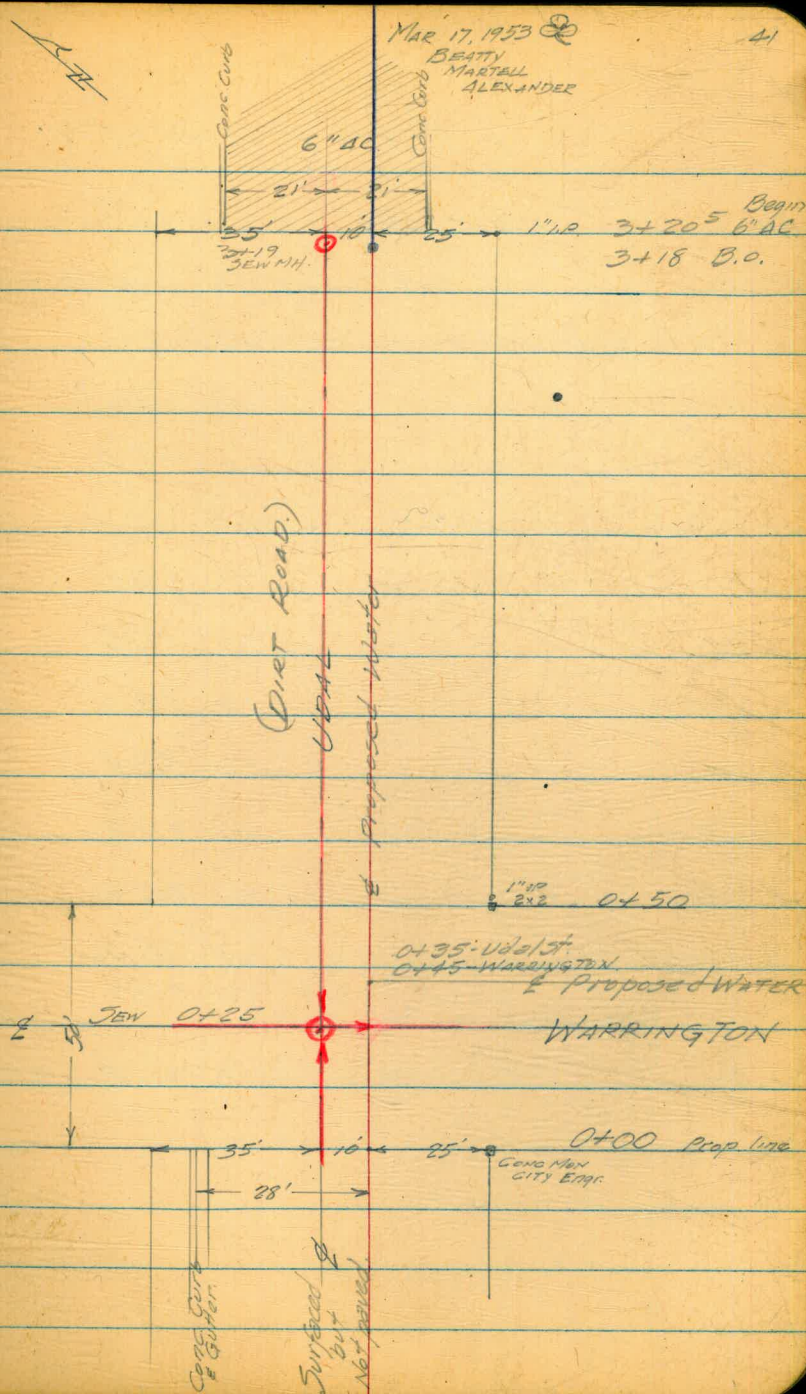
UDAL ST.
WARRINGTON, Ely
& PROPOSED WATER

3+205 Begin curb & gutter & 6" AC

3+180 B.O.

0+35 Udal St. = 0+45 proposed WAT on
Warrington.

0+00 = Newly prop line WARRINGTON



UDAL ST
(Cont'd.)
& Profile proposed water.

BM	0.99	117.32	116.83	
	0.76	105.23	12.85	102.47
CK BM	0.05	96.47	8.81	96.42 = 96.35

SET TBM			8.87	87.60
---------	--	--	------	-------

0+00			10.2	86.3
------	--	--	------	------

+35			8.6	87.9
-----	--	--	-----	------

Sew. Invert at M.H. Rim 9.15
Inv 22.90

+50			7.1	89.4
-----	--	--	-----	------

1+00			5.2	91.3
------	--	--	-----	------

+50			3.9	92.6
-----	--	--	-----	------

2+00			3.7	92.8
------	--	--	-----	------

+50			4.5	92.0
-----	--	--	-----	------

3+00			5.1	91.4
------	--	--	-----	------

3+20.5			5.3	91.2
--------	--	--	-----	------

Sew Invert at M.H. Rim 5.10
Inv 17.00

CK BM			0.05	96.35 = 96.35
-------	--	--	------	---------------

SWLY
CR SWLY Cor Voltaire & Chatsworth

OR SWLY Cor Poinsettia &
Rim of Sew M.H. 3+19.

on City Eng'r Men SWLY Cor Warrington & Udal

M.H. 0+25

M.H. 3+19

OR SWLY Cor Voltaire & Poinsettia

WARRINGTON ST.
UDAL TO TENNYSON
& PROPOSED WATER

4+65E Inters'n with water line ? size
4+50 = 10' sly & TENNYSON

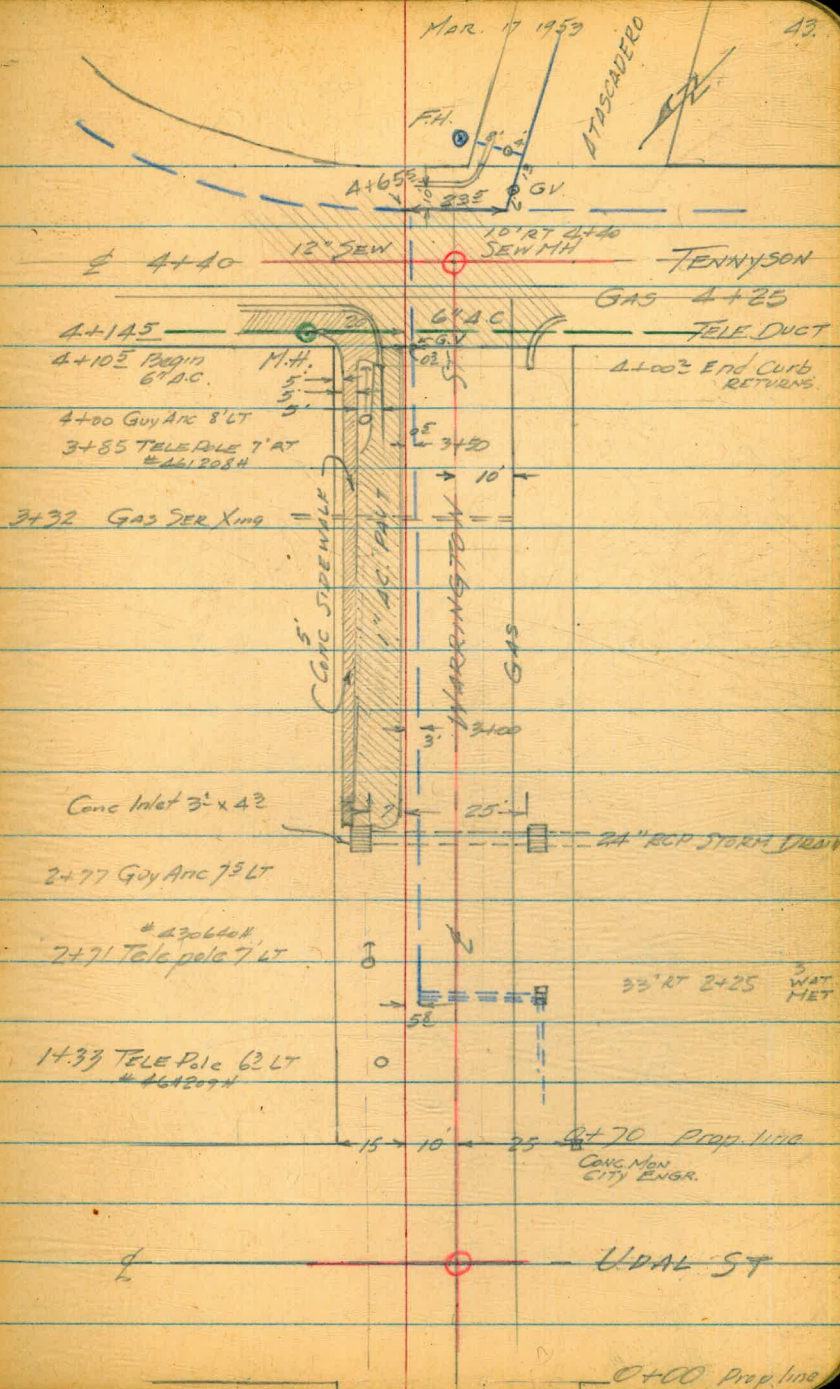
4+145 TELE DUCT

4+00E End curb return

2+78 24" Cross Cdv 7' LT Inlet.
25' RT Outlet.

0+70 = Prop line Udal St.


0+00 = Prop line Udal St.



WARRINGTON ST.
 & Profile
 Proposed WATER

3/17/33

44

Station	Offset	Elevation	Notes
TBM	2.58	90.18	87.60 Conc Man Swly Cor Udal & Warrington
0+00		2.6	87.6
+50		2.4	87.8
1+00		2.8	87.4
+50		4.4	85.7
2+00		5.0	85.2
+50		5.0	85.2
7' LT Inlet 24" R.C. Culv.	7.83	82.4	F.L. } sta 2+76 24" R.C. Cross Dr
25' RT Outlet " " "	8.10	82.1	F.L. }
3+00		5.3	84.9 1" A.C. 05 LT { 2+80 4+105
+50		5.25	84.9
4+00		5.15	85.0
SEW M.H. 12"	Rim 4.04 Top 19.20	86.1 91.0	
4+50		3.95	86.2
4+65.5	Inters'n with water	4.05	86.1
TELE M.H.	Rim 4.59 Top of d.d. 8.75	85.6 81.4	20' LT 4+14.50 TELE M.H.
			
CK B.M.	2.36	89.96	2.58 87.60 = 87.60 Conc Man Swly Cor Udal & Warrington
CK CURB NE Cor.		5.10	84.86 = 85.67 NE plug curb. Gene

WARRINGTON ST.
 WILDWOOD. TO DIXON PLACE
 DIXON PLACE
 WARRINGTON TO CHATSWORTH

3/17/53

45

7+06 = Inter's W. WATER MAIN
 6+90 Edge A.C.

5+80 Edge A.C.

3+34.4 90° bend LT.

2+96.17

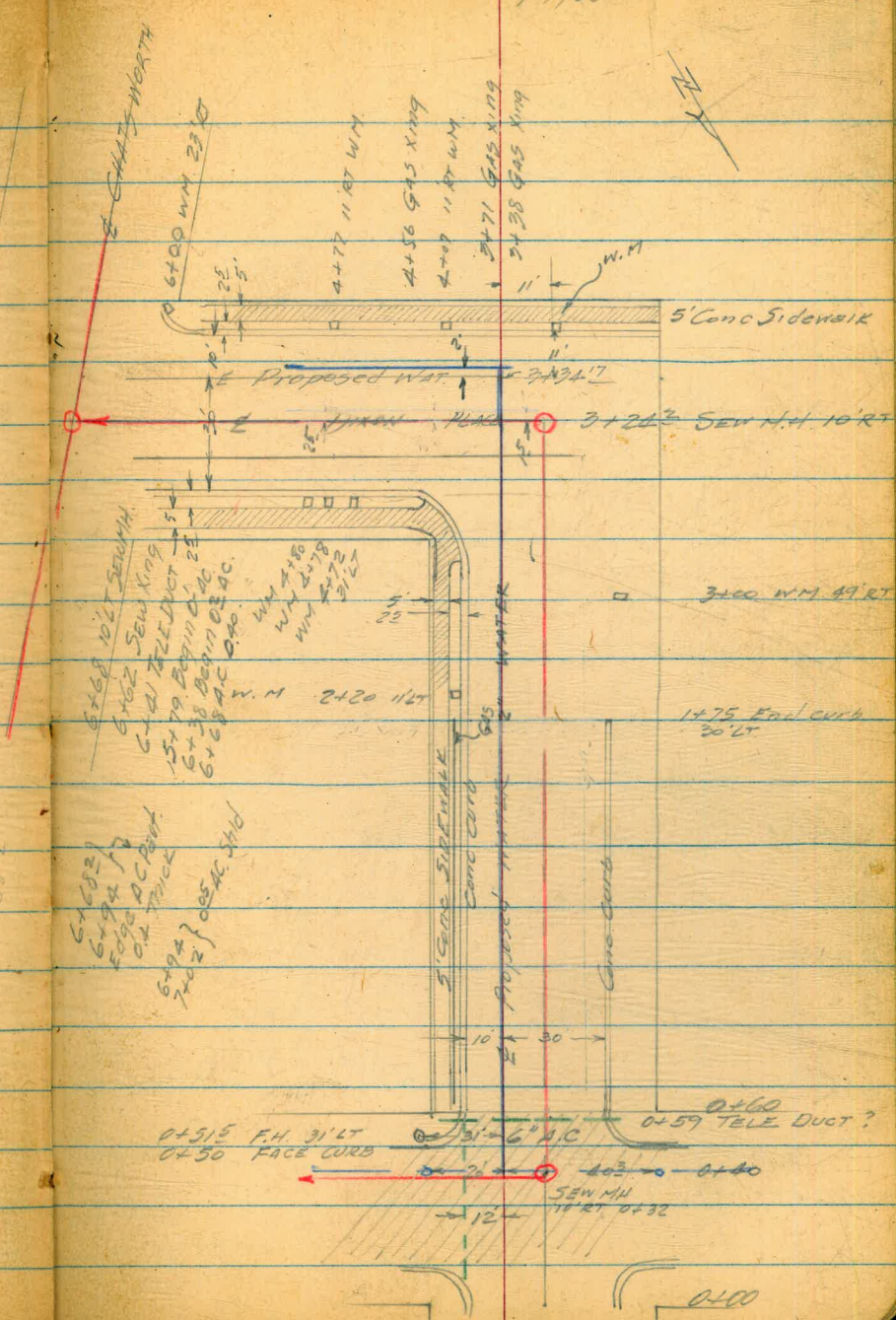
0+60 Edge 6" AC Past
 Prop. line Wildwood

0+60 Inter's 6" wat.

0+00 Nly. prop. line Wildwood

940
 258
 682

6+68 10' LT SEW M.H.
 6+62 Sew King
 6+61 1/2" DUCT
 15+79 20" DIA. AC
 6+38 20" DIA. AC
 6+68 AC 20"
 W.M. 4+80
 W.M. 4+78
 W.M. 4+75
 W.M. 4+72
 W.M. 4+69
 6+94 1/2" AC PAVT.
 ON TRUCK
 6+94 2" AC 5' HD



3/18/53

46

WARRINGTON ST.
 Wildwood to Dixon Place
 Dixon Place
 Warrington to Chatsworth
 & Profile Proposed Water

B.M. 5.81 217.05 = 211.24

n.w. Cor (B.P. gene) Warrington & Wildwood

0+00 2.10 209.9

SEW M.H. Rim 5.92 211.13 211.1
 Inv. 11.70 205.3

6" Sew 0+30 10' RT 0+30

0+20 5.90 211.1

0+60 Edge AC. 5.72 211.3

1+00 5.4 211.6

+50 4.9 212.1

2+00 5.3 211.7

+50 6.5 210.5

3+00 7.5 209.5

SEW M.H. Rim 6.46 210.59 210.6
 Inv. 13.00

+34.7 7.4 209.6

+50 8.1 208.9

4+00 11.4 205.6

P 0.00 204.83 12.27 204.83

+50 2.5 202.3

5+00 5.5 199.3

+50 8.0 196.8

6+00 9.8 195.0

WARRINGTON & Dixon
(Cont'd.)

3/18/53

47

204.83

6+50 11.8 193.0

SEW M/H Rm 12.28 192.4
174 19.88 185.0

6494 12.8 192.0

7+02 13.0 191.8
7+06 13.0

P 0.12 191.75 13.20 191.63

P 0.00 178.39 13.86 178.39

8.76 169.63 = 170.18

Ping NE Cor }
Wildwood & } Gene 5.81
Chatsworth } 5.93

25.32
12.22
47.54
+ 5.93 711.24
41.61 170.18
21.06

SEW M/H 6+68

Edge A.C. Shldr.

OTAY ST.
65TH ST. TO BROOKLYN AVE
PROPOSED WATER MAIN

6+00 = Sky Prop Line Brooklyn Ave

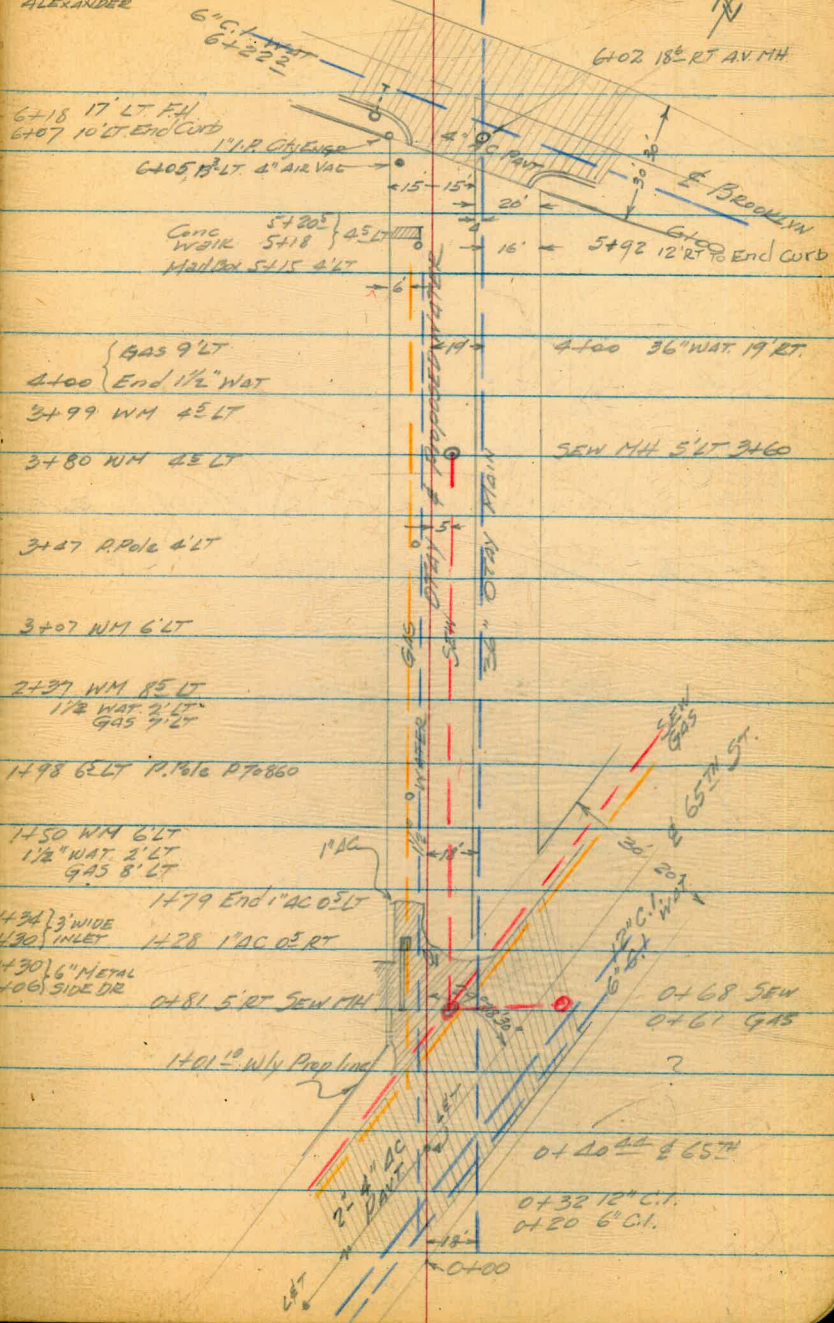
1+01¹⁰ Wly Prop Line 65TH St.

0+40¹¹ E. 65TH St. (29°38'30" RT.)

0+00 = Fly Prop. Line 65TH St.

SEATTY
MARTEL
ALEXANDER

JUNE 1, 1953



65TH OTAY ST
 To BROOKLYN
 E PROFILE PROPOSED WATER
 & X-SECTION OF 30' STREET

JUNE 1 1959.

49

TBM.	12.57	231.29	218.78
0+00 =	Ely. prop. line 65 TH E OTAY ST		4.6
0+14			4.0
0+17 =	AC Shldr Rd		4.1
0+20 ⁴⁴ =	E 65 TH		1.9
0+62	AC Shldr of Rd.		0.93
P	13.26	244.45	0.10 231.19
SRT 0481 SEW. MH	Rmt.	12.10	
		9.00	
	TO SW 17V.	21.70	222.75
	TO NW 17V.	19.60	224.85
1401 ¹⁰	Wly prop. line 65 TH E OTAY ST		10.75
	17V. 6" Side Dr	11.15	
	E 2' LT 1406		
	17V. 6" Side Dr	10.10	
	E 4' LT. 1430		
1450			7.0
2+00			3.3
P	13.35	257.62	0.18 244.27
2+50			12.0
3+00			8.1

NWly Cor. Sidewalk ENCANTO PUMP PLANT.	E ST		RT. NEly Prop Line
LT. Swly Prop Line	4.8 20.33	4.6 C	2.2 30.33
	4.4 30.33	12 C	+0.8 20.33
	14.5 20.33	10.75 C	8.5 30.33
	7.0 15	7.0 C	7.0 15
	3.7 15	3.3 C	3.1 15
	12.1 15	12.0 C	11.9 15
	8.6 15	8.1 C	7.9 15

SECTIONS
 II To E
 65TH ST

OTAY ST.
Cont'd

4/1/53

50

	257.62			
3+50		4.1	253.1	
	SEW MH 5 RT 7+60 Rim	2.94		
	" "	8.2		
	" "	12.14		
4+00		0.1	257.5	
TP	17.31 270.85	0.08	257.54	
+50		9.6	261.3	
5+00		6.0	264.9	
+25		4.3	266.6	
+50		4.0	266.9	
6+00	Edge AC part 50 Prop line Brooklyn	4.20	266.7	
OK TP	0.22 268.33	2.74	268.11	
TP	0.08 255.70	12.71	255.62	
TP	0.62 244.68	11.64	244.06	
OK TP		12.23	232.45 = 232.39	

4.1 4.1 3.9
15 5 15

0.2 4.2
15 15

8.9 9.6 9.6
15 15 15

5.4 6.0 5.8
15 15 15

4.3 4.3 4.3
15 15 15

4.3 3.9
15 15

3.4 4.2 3.5
17.3 15

SECTION II
TO BROOKLYN AVE

Top FH Brooklyn
4 OTAY, SW Cor

(FB 818 pg 61)

Boban St Stakes for
Water main & Meters
BONITA DRIVE Westerly

West
Williams
VaronFokis

7-16-53

51

Sta	+					
	0.48	210.68		210.00		Top FH Santa Fe Blvd + Bonita
	0.85	198.51	13.02	197.66		
	5.90	191.34	13.07	185.44		
	0.86	181.80	10.40	180.94		
	0.94	171.68	11.06	170.74		
0+00			10.12	161.6	157.5	C4 ¹
0+05	Begin work			161.9	157.8	C4 ¹
+25			8.8	162.9	158.9	C3 ⁵ C2 ²
+50			8.1	163.6	160.0	C3 ⁶
+49			7.8	163.9	163.7	C0 ²
1+00			6.2	165.5	161.3	C4 ²
+05			5.9	165.8	164.8	C1 ⁰
1+50			4.7	167.0	162.5	C4 ⁵
+87			2.8	168.9	166.8	C2 ¹
+86			3.4	168.3	166.8	C1 ⁵
2+00			3.4	168.3	163.8	C4 ⁵
+50			2.2	169.5	165.0	C4 ⁵
3+00			0.9	170.8	166.2	C4 ⁶
3+00			0.8	170.9	169.6	C1 ³
	11.62	183.11	0.19	171.49		WM 5203 South WM 5221 South WM 5230 North WM 5231 South WM 5241 South

COBAN ST
(CONT'D)

7/16/53

52

3+46		183.11	11.1	172.0	170.5	C1	⁵			WM 5251 South
+50			11.3	171.8	167.4	C4	⁴			
4+00			10.3	172.8	168.6	C4	²			
+26			10.25	172.8	168.3	C4	⁵			
4+21 ²	END WORK									
4+25			6.4	176.7	176.0	C0	⁷	173.5	C3	²
7+28 ²	BEGIN WORK									
+50			6.3	176.8	176.4	C0	⁴	173.8	C3	⁰
8+00			3.6	179.5	176.9	C2	⁶	174.5	C5	⁰
+30			3.2	179.9	180.7	F0	⁸			WM (No Number) South
+50			3.2	179.9	177.2	C2	⁷	175.4	C4	⁵
9+00			2.8	180.3	177.6	C2	⁷	176.4	C3	⁹
+41			0.9	182.2	181.2	C1	⁰			WM 5206 North
+50			2.5	180.6	177.5	C3	¹	176.4	C4	²
	4.74	186.22	1.63	181.48						
9+91			4.2	182.0	181.2	C0	⁸			WM 5202 North
10+00			5.5	180.7	177.5	C3	²	176.3	C4	⁴
+50			5.6	180.6	177.4	C3	²	176.3	C4	³
11+00			6.1	180.1	176.7	C3	⁴	176.0	C4	¹
+25			5.2	181.0	180.4	C0	⁶			WM 5204 North
+50			6.6	179.6	175.9	C3	²	175.5	C4	¹
12+00			7.4	177.8	175.1	C3	⁷			
+26	45° X PT		6.0	180.2	174.3	C5	⁹			

SBM Page 3-4
-426 = 19196 = 182.06

BONITA DRIVE
 SANTA ISABEL JULY
 (5) STRS & GRDS for 8" A.C. WATER

July 17, 1939
 Beatty,
 Storey,
 Martell,
 Alexander.

53

TP	12.55	172.22	159.67		NAIL IN FENCE COR (pp. 25 this book)	
0+00		14.3	157.9			
0+05	Begin Work	14.3	157.9	155.2	C27	
0+28	NW WAT MET	12.2	160.0	158.8	C12	5320 BONITA
0+50		12.5	159.7	156.2	C35	
0+82	NW WAT MET	10.1	162.1	160.0	C21	5330 5096 "
1+00		11.2	161.0	157.4	C36	
+50		9.9	162.3	158.5	C38	
+72	NW WAT MET	7.2	165.0	162.3	C27	5336 "
2+00		8.1	164.1	159.6	C45	
+15	SE. WAT MET	7.7	164.5	163.2	C13	5337 "
+50		5.9	166.3	160.8	C55	
3+00		4.9	167.3	161.9	C54	
+14	NW WAT MET	5.2	167.0	166.2	C08	5348 "
+48	SE. WAT MET	3.8	168.4	166.9	C15	5347 "
+50		3.7	168.5	163.2	C53	
4+00		1.7	170.5	165.8	C47	
4+00	SE WAT MET	1.6	170.6	169.0	C16	5235 BONITA
TP	12.90	184.82	0.30	171.92		
+27	F.H. TEE	12.5	172.3	167.2	C51	
(5) F.H.		10.9	173.9	170.6	C33 C67	

BONITA DR.
(CONT'D)

7/17/53

54

184.82

4+50		11.5	173.3	168.4	C49		
4+62 SE WAT MET.		11.1	173.7	172.8	C49	5355 BONITA	
5+00		8.1	176.7	171.5	C52		
5+05 SE WAT MET.		8.1	176.7	175.5	C12	5359 "	
5+45 8x6 TREE		4.4	180.4	174.3	C61		
5+47(2) SE 2-WAT METS.		4.5	180.3	176.2	C1	5361	
5+47(1)		4.6	180.2		C2	5363 ? sidewalk to SE	
5+50		4.2	180.6	174.2	C60		
5+74 SE. WAT MET.		3.8	181.0	179.9	C1	5367 ? " " "	
CK TBM.		2.81	182.01 = 182.00			conc Ftg of wall □ SE Cor of LANE	
5+100 SE WAT MET.							
5+100							
6+00	12.86	196.91	0.77	184.05	177.8	C62	
6+10 NW WAT MET			9.3	187.6	182.0	C56	5364 "
6+42 SE WAT MET.			11.2	185.7	184.2	C15	5371 "
6+50			9.7	187.2	181.0	C62	
6+75			8.5	188.4	182.5	C59	
7+00			6.3	190.6	184.3	C63	
7+50			3.1	193.8	188.0	C58	
7+53 X PT.			2.9	194.0	188.2	C58	
7+58 SE WAT MET			2.2	194.7	192.7	C20	5375 BONITA DR
8+00	12.02	208.76	0.18	196.74			
			11.2	197.6	192.0	C56	

BONITA DR.
(CONT'D.)

7/17/53

55

208.76

8+50 73 201.5 196.0 C55

9+00 5.0 203.8 200.0 C38

9+40 8" TEE 2.0 206.8 203.1 C37

9+56 END WORK 2.3 206.7 203.1 C36

9+61 Existing Cross?

IP curb 3.73 211.12 1.37 207.39

CK BM. 0.93 210.19 = 210.20

Top F.H. NEly Cor Santa Isabel & Bonita Dr.

HILGER ST.
KLAUBER TO GIBSON
⑤ STKS & GRDS. FOR 6" WATER

AUG. 18, 1953
BEATTY
MARTELL
ALEXANDER

56

BM	2.61	405.04		402.43						
0+69 =	514	PROP. KLAUBER								L & T. & KLAUBER & ATTIX DR (Pg. 28 This Book)
0+74		5' from 6" GV.								
		- Begin Work	6.45	398.6	395.5					C31
1+00			8.34	396.7	393.2					C35
+50			12.42	392.6	388.6					C40
P	0.07		13.34	391.70						
2+00			4.5	387.3	384.0					C33
+50			10.14	381.6	378.1					C22 C35
P	1.38		12.55	379.22	376.5					C22 C27
3+00			2.8	377.8	374.8					C22 C30
+50			4.0	376.6	373.3					C92 C33
4+00			4.7	375.9	371.7					C49 C42
+50			5.1	375.5	369.6					C69 C59
5+00			5.8	374.8	367.5					C86 C72
+25			6.7	373.9	366.1					
+15		F.H. TER	2.9	377.7	371.0					C89 C78
		⑤ F.H.	7.85	372.75	364.7					C67 C116
+50			10.3	370.3	362.7					C89 C81
6+00					362.0					C87 C83
P	0.24		12.78	367.82	361.6					
+50					359.0					C88
7+00			3.4	364.7	356.0					C83 C87
+50			6.6	361.5	356.4					C83 C87
8+00			10.6	357.5	353.0					C92 C85
P	0.13		13.37	354.69	353.8					
					350.0					
					351.2					C63 C75

NOTE: Grade Change
DUE TO REVISED
Profile &
from STA 10+
to 15+ REVISED
Ground line.

8/18/53

57

HILGER ST
(CONT'D)

	354.82				347.0				
8+50		1.6	353.2		348.6		etc	C62	
9+00		5.6	349.2		342.0		etc	C52	
+50		7.8	347.0		341.2		etc	C58	
10+00		9.5	345.3		338.5		etc	C68	
+16					337.2		etc	C52	
+15	Outlet 12" 15' Conc. Dk 02 LT. & pipe	12.2	342.4		340.0				Elev & PIPE
+35	F.H. TEE	13.13	341.69		335.7		C12	C60	340.5
+50	2.33 304.02	9.5	345.3	341.7	340.0		C36	C96	315
+38	③ F.H.	4.92	339.1		334.5		F09	C46	338.2
+55	20 x 10 22 1/2 BEND	5.6	338.4		332.3			C41	337.4
11+00		6.5	337.5		333.5			C40	336.6
+50		8.4	335.6		330.9			C47	334.9
12+00		10.5	332.5		328.3			C52	332.7
+50		12.5	331.5		325.8			C57	330.6
④ 38	2.43 333.94	12.51	331.51		328.9				13.4
13+00		4.6	329.3		329.2			C61	328.4
+50		7.5	326.4		327.7			C57	327.9
14+00		10.5	323.4		318.1			C53	322.6
④ +50	2.93 323.73	13.10	320.80		315.6			C52	320.2
15+00		5.3	318.4		318.5				13.7
+05					313.0			C54	317.7
+15	F.H. TEE	5.6	318.1		315.9				60
② F.H.		0.2	323.5		315.6			C54	317.5
					316.8			C67	C108

8/18/53

58

HILGER ST
(CONT'D)

15+50	323.73	7.7	316.0	310.4 313.3	C56	315.3 8.4
15+52 ³⁸	Intersection of Gibson					
15+60	End work	8.4	315.3	310.0 312.8	C53	314.9 8.9
15+64 ⁹⁵	6x6 TEE	8.6	315.1	309.7 312.5	C54	314.4 9.3

NOTE: Existing 2" GV
4" CI. 3' LT of correct
position of 6x6 TEE

104 322.69 = 322.65 2" IP. SE Cor. Gibson & Hilger

WATER METERS

3+82 E	+0.3	4+00	376.2	376.1	C01	1617 Hilger
3+89 W	-2.3	4+00	373.6	374.7	F12	1612 "
5+65 E	+2.8	5+50	375.6	368.5	C71	1567 "
9+74 E	+1.6	10+00	346.9	343.4	C35	1505 "
11+38 E	+8.0	11+50	343.6	336.3	C73	1461 "
12+17 E	+7.0	12+00	340.5	331.9	C86	1445 "
13+89 W	-1.5	14+00	321.9	321.9	C02	1420 "

NOTE: BK MET 22' E RT to Road
" " 29' LT of Road
FH's set 29' LT of Road
otherwise would be located
in traveled roadway

Realty 8/19/53

EUCLID AVE
ORANGE AVE TO EL CAJON
⑤ STKS & GRDS. FOR "WATER"

AUG. 27, 1933

BEATTY,
KEMP
ALEXANDRE

59

B.M.					BP. NW Cor. Orange & Euclid	Elev. ± ft.
	3.81	354.55		350.72		
0+35	8° G.V. (City)		3.95	350.60	346.1	C45
0+40	Begin Work		3.95	350.6	346.2	C44
0+50			3.90	350.65	346.1	C46
1+00			4.15	350.4	345.5	C49
+50			4.75	349.8	345.0	C48
2+00			5.40	349.15	344.5	C47
+50			6.03	348.52	344.0	C45
3+00			6.65	347.9	343.5	C44
+50			7.20	347.35	343.0	C44
TP	2.50	349.14	7.91	346.64		
4+00			2.40	346.74	342.5	C42
+50			3.04	346.1	342.0	C41
5+00			3.64	345.5	341.5	C40
+50			4.24	344.9	341.0	C39
6+00			4.84	344.3	340.4	C39
+50			5.50	343.64	340.4	C32
+75	F.H. TEE		5.64	343.50	340.4	C31
7+00			5.75	343.39	340.4	C30
+50			5.40	343.74	340.4	C30

EUCLID AVE
(Cont'd)

8/27/53

60

349.14

8+00	5.20	343.94	340.6	C33	5.38	
+50	4.86	344.28	340.8	C35	5.00	
9+00	4.57	344.57	341.0	C36	4.70	
+50	4.20	344.94	341.2	C37	4.38	
10+00	3.74	345.40	341.4	C40	3.93	
+50	3.26	345.82	341.6	C42	3.44	
+75	3.40	345.74	341.8	C39	3.37	
10+90	End Work	3.14	346.00	341.9	C41	3.08

SP 5.76 351.71 3.19 345.95

OK BM 4.46 347.25 = 347.215
347.094

50 SW Cor 47th & EUCLID

WATER METERS

8/28/53

0+96 E	Exist. Curb used for grade
1+29 E	
1+62 W	
2+27 E	
2+20 W	
E	?
2+56 W	
3+26 W	

4201 EUCLID

4211, 4213, 4213 1/2

4208

4217 - 23

4216

4225 - 31

4222

4228

EUCLID AVE
WATER METER

8/28/53

61

3+11 E

4235

3+57 E

4237

3+66 W

4234

3+80 E

4245

4+00 W

4238

4+00 E

4251

4+31 W

4242-48

4+92

4265-79

5+00

4254

5+43 W

4256

5+68 W

4258

6+05 W

4262

6+20 E

4283-85

6+32 E

4289-4765

6+06 W

4264

6+28 W

4268-74 1/2

7+29 W

4276

7+55 W

4280

7+76 E

4305

EUCLID AVE
Cont'd
WAT. METS

62

8+01 W

4306 Euclid

8+12 W

4310

8+34 W

4326

9+30 W

4328 ?

8+31 E

4313 -17

9+00 E

4321 - 29

9+13 E

4333

4330 MET. LEFT
OUT
per Bell

ALTADENA AVE
ORANGE TO TROJAN
⑤ STR. 5 & GRDS 6" WATER

Aug. 27, 1953

63

BM	13.42	376.31	362.89						
			476.16						
P 6+99	0.04	363.39	12.90	363.35	359.7	C37			End work
6+70	F.H. TEE.		3.33	360.1	356.7	C34	⑤ FILL	2.5	360.9
6+50			6.3	356.9	353.7	C32			GRD 364.2
P 6+00	0.37	350.58	13.18	350.21					F32 C12
			1.6	349.0	345.6	C44	✓		
5+50			8.0	342.6	338.6	C33	C20		
P 5+00	0.22	337.38	13.42	337.16	332.0	C22	C52		
					339.3				
4+50			4.9	332.5	327.7	C25	C48		
					328.0				
4+25			6.9	330.5	325.6	C51	✓		
4+00			8.5	328.9	322.2	C27		8.8	
3+75			9.8	327.6	322.8	C48			
3+50			10.95	326.4	321.4	C50		11.2	
3+25			12.0	325.4	320.0	C54			
P 3+00	0.94	324.90	13.42	323.96					
2+75			1.3	322.6	317.6	C60			
2+50			2.1	322.8	316.4	C62			
2+00			4.6	320.3	313.9	C72			
1+50			8.0	316.9	311.4	C55			
1+25			10.3	314.6	309.2	C54		10.6	
1+00			12.0	312.9	309.0	C73			
					305.6				
0+75			12.8	312.1	302.0	C101			
0+41			13.5	311.4	302.0	C94			
0+38	(Begin work)		13.6	311.3	308.3	C30			
					309.3				
P on curb	11.82	323.48	13.24	311.66					
			2.92	320.56					

ALTADENA AVE
(Cont'd.)

8/31/53

64

WAT. METS.

1+64 E	N	324.9	7.5	317.4	316.3	C1	✓	4211 Altadena
1+94 W.	"	"	5.1	319.8	317.7	C1	✓	4212 "
2+16 E	"	"	4.6	320.3	318.7	C1	✓	4219 "
2+52 W	"	324.9	1.7	323.2	320.5	C2		4230 "
2+59 E	"	324.9	1.94	323.0	320.5	C2	✓	4225, 4227 "
3+00 E.	N	337.38	12.9	320.5	322.4	C1	✓	4239 "
3+15 W.	N	337.38	12.15	325.2	323.5	C1	✓	4238 "
3+77 E	"	"	9.8	327.6	326.0	C1	✓	4245 "
3+59 E	"	"	10.8	326.2	326.0	C1	✓	4245 "
3+69 W	"	"	10.2	327.2	326.2	C1	✓	4244 "
3+96 E	"	337.38	8.6	328.8	326.9	C1		4251 "
4+25 W	"	337.4	7.0	330.4	329.4	C1	?	No Address
4+62 W.	"	337.4	4.1	333.3	332.4	C1		4258 "
5+02 E	"	"	13.2	337.4	335.3	C1		4269, 4271, 4273
5+66 W	"	"	5.9	344.7	344.5	C2		4276
5+70 E	N	352.58	5.7	344.7	344.5	C2		4277 "
6+16 E	"	"	12.5	350.9	353.6	F2		4285 "
6+48 E	"	"	7.2	356.2	359.8	F3		4285 "
6+81 W	N	323.2 +1.0	"	364.46	367.0	F2		4292 "

AUG. 31 1953
 BEATTY
 SHORBY
 KEMP

65

RADIO DRIVE

ATTIX ST TO WINNET
 ⑤ GRDS & STKS FOR 8" A.C.

BM	0.21	344.98	344.77	Top. Pk. SE. Cor. ATTIX ST & RADIO DR. (F.D. 890 pg. 58)	342.5 = Elevation @ pipe	
0+25	G.V. (by City)	2.4	342.6	338.9	C37	2.5
0+65	Begin Work	3.85	341.1	338.0 338.2	C29 C31	3.9
1+00		4.8	340.2	336.6 337.4	C28 C36	4.9
+50		5.8	339.2	335.8 336.2	C29 C34	6.0
2+00		6.7	338.3	334.9 335.1	C32 C34	6.5
+50		7.9	337.1	334.0	C31	8.0
3+00		8.7	336.3	332.8	C35	8.8
+50		9.8	335.2	331.7	C35	9.9
4+00		11.4	333.6	330.5	C31	11.4
① +50	5.00	12.28	332.70	329.4	C33	12.4
5+00		5.5	332.2	328.6	C36	5.6
+50		5.5	332.2	327.7	C45	5.7
+90 +85	F.H. TEE.	5.8	331.9	327.1	C48	6.0
	③ F.H.	1.2	336.5	332.5	C40 C94	
6+00		6.0	331.7	326.9	C48	6.1
+50		7.3	330.4	326.0	C44	7.3
7+00		8.3	329.4	325.2	C42	8.3
+50		9.2	328.5	324.3	C42	9.1
8+00		10.2	327.5	323.4	C41	10.1

NOT ENOUGH COVER

RADIO DRIVE
ATTIX ST. TO WINNET
(Cont'd.)

9/1/59

66

		337.70							
P	8+30.5	2 PT 0.95	327.65	11.00	326.70	322.8	C39		326.6 Elev. & Pipe 101
	+50			1.6	326.1	321.8	C43		1.5
	9+00			3.8	323.9	319.1	C28		3.5
	+50			7.0	320.7	316.4	C42		6.6
	10+00			10.4	317.3	313.7	C36		10.1
P	+50	125	316.87	12.03	315.62				
	+50			2.4	314.5	311.0	C35		2.3
	+75			3.5	313.1	309.6	C38		3.6
	11+00			4.3	312.6	308.8	C38		4.4
	+53	F.H. TEE		4.9	312.0	307.1	C49		5.0
		⊕ F.H.		+05	317.4	313.0	C42, C102	✓	
	12+00			5.4	311.5	305.6	C59	✓	5.6
	+50			6.9	310.0	304.1	C59		7.0
	13+00			9.3	307.6	302.5	C51		9.4
P	+50	284	308.26	11.45	305.42	301.0	C44		11.5
	+87			3.65	304.6	299.8	C48		3.7
	14+00			3.8	304.5	"	C47		3.7
	+50			4.4	303.9	"	C41		4.1
	15+00			4.6	303.7	"	C39		4.6
	+25			4.9	303.4	299.8	C36		5.0
	+50			5.1	303.2	299.3	C39		5.3

RADIO DRIVE
(Cont'd)

9/1/53

67

308.26

16+00		5.4	302.9	296.3	C46	302.7	Elav. & pipe
+50		5.8	302.5	297.3	C52	2.6	
17+00		7.3	301.0	296.2	C48	6.1	
+50		9.0	299.3	295.2	C41	7.7	
+64						9.1	
+70	END WORK	9.3	299.0	295.0	C40	9.3	
OK B.M.		6.18	302.08 = 302.03				(F.B. 890 pg. 60)

WATER METS (SET 20' RT, LT & ST)

3+68 Sly	4.1	337.70	3.3	334.0	336.2	F18	6529	RADIO
3+91 Nly	"	"	0.1	337.6	336.3	C73	?	"
10+60 Nly	+6.0	10+50		322.5	317.1	C34	6432	"
10+96 Sly	-0.8	11+00		311.4	315.0	F3E	No Exist MET	No Address
11+72 Sly	-1.5	11+53		310.5	312.5	F20	6409	"
12+10 Nly	+3.9	12+00		315.4	311.0	C42	6418	"
12+73.5 Nly	+3.8	13+00		312.4	309.2	C32	6348	"
13+70 Sly	-1.1	13+50		304.3	306.6	F23	6389	"
14+05 Nly	+1.1	14+00		305.6	305.4	C02	6392	"
15+43 Nly	+2.3	15+50		307.5	303.4	C41	6372	"
15+83 Sly	-1.0	16+00		301.9	302.7	F08	6367	"
16+56 Nly	+3.5	16+50		306.0	301.7	C43	6306	"

FRANCIS ST
 OCEAN VIEW TO WEBSTER
 (2) STKS & GRDS FOR WAT. MET. 5

Sept 1 1953
 BEATTY
 SHOREY
 KEMP.

68.

BM 11.60 57.68 46.08

L&T NE Cor Oceanview & Francis

0+00 = Nly Prop line Oceanview

0+71 E. 3.0 54.7 54.2

C05 449 Francis

0+78 W. 2.9 54.8 54.3

C05 448 "

P 9.41 66.49 0.60 57.08

1+27 W. 5.3 61.2 58.5

C22 440? "

1+58 E. 4.0 62.5 60.6

C19 435 "

1+75 W. 4.8 61.7 60.6

C1 434 "

2+31.5 W. 5.1 61.1 60.9

C05 424 "

2+38.5 E. 3.6 62.9 61.2

C17 421 "

2+57 W. 5.7 60.8 60.6

C03 414 "

2+76.5 E. 4.6 61.9 60.8

C1 415 "

3+47.5 E. 2.65 63.39 5.75 60.74 60.0

C07 407 "

P 3+55.5 W. 3.5 59.9 59.5

C04 404

3+80 E 2.2 61.2 59.7

C15 3465 Franklin

0+00 = Nly Prop line Franklin

0+30 E 3.1 60.3 58.8

C15 347 "

0+87 E 3.9 59.5 58.1

C14 341 "

1+09 E 4.2 59.2 57.9

C13 335 "

1+45 E 4.9 58.5 57.4

C11 329 "

1+73 W 6.4 57.0 56.4

C06 328 "

P 2.62 61.12 4.89 58.50

FRANCIS ST
(Cont'd.)

9/2/53

59.

61.12

B	4+10 E	3.6	57.5	56.6	C09	233 Francis
C	4+87 E	3.4	57.7	56.2	C15	227 "
O	5+325 W	5.1	56.0	54.9	C11	218 "
O	5+325 E	3.9	57.2	55.7	C15	219 "
P	5+78 W	7.1	54.0	53.1	C09	212 "
1	5+88 F	6.9	54.2	53.0	C12	209 "
1	CK RAD RT	10.32	50.8			48.00 C24 = (C23)
2	CK 2+80	9.74	51.38			49.00 C24 = (C22)

LIETA ST.
ASHER ST.

Sept. 10, 1953
Beatty
KEMP
SHOREY

71.

(2) STKS & GADS FOR WAT. METS

1	BM.	5.07	47.97	42.90		chis x Rad pt SE Cor LIETA & ASHER
2	0+00 = Sly Prop line LITTLEFIELD					
0	1483 Wly.	6.2	41.8	43.2	F/4	To Nursery ? address
0	BM.	11.55	54.45	42.90		
1	0+00 = Ely prop line LIETA					
1	0+35 Ely	11.0	43.5	42.9	C06	1459 LIETA
1	0+97 Sly	9.5	45.0	45.1	F01	4315 ASHER
1	1476 Nly	4.7	49.8	48.9	C07	4328 ASHER
2	2+25 Nly	3.0	51.5	50.0	C15	1502 MORENGI
2	BM	5.07	47.97	42.90		
2	2+00 = Nly prop line Tonapah					
2	3+815 Ely	12.45	43.5	46.8	F01 C32	1405 Lieta
2	3+30 Ely	2.1	43	43.7	C03 C25	1411 "
2	2+71 Ely	36.26	44.4	43.1	C12 ✓	1425 "
2	2+35 Ely	43.21	43.7	43.0	C49 C07	1431 "
2	1+92 Ely	45.42	43.5	42.8	C40 C07	1437 "
0	0+00 = Sly prop line Asher					

MORENCI ST.
ASHER ST. Nly & Sly

9/10/53

72.

(2) STKS to GRD for WAT. METS

BM	11.55	54.45	42.90			
0400 = Sly prop line ASHER						
1405 Wly	8.0	46.5	46.6	F0L	1444 Morenci	
1469 Wly	8.8	45.7	45.4	C03	1436 "	
2484 Wly	8.7	45.8	44.5	C13	1426 "	
3426 Wly	8.0	46.5	44.0	C25	1414 "	
3421 Fly	8.4	46.1	43.9	C22	1413 "	
2468 Fly	8.6	45.9	44.4	C15	1425 "	
0400 = Nly prop line ASHER						
0423 Fly	0.7	53.8	52.1	C17	1507 "	
P0480 Wly 10.38	64.39	0.44	54.01	53.0	C10	1514 "
1433 Wly	9.2	55.2	54.5	C07	1522 "	
1469 Wly	9.7	54.7	53.5	F08	1526 "	
1491 Wly	8.9	55.5	56.1	F06	1532 "	
2405 Fly	6.5	57.9	57.3	C06	1531 "	
2443 Fly	5.3	59.1	58.5	C06	1541 "	
3404.5 Fly	2.8	61.6	60.0	C10	1549 "	
3408 Wly	4.9	59.5	59.0	C05	No Address	
3454 Fly	1.4	63.0	61.1	C19	1559 Morenci	
OK BM	2.64	67.03	0.00	64.39		
			2.23	64.80	64.79	

C16 X RARE PT

SE Cor Littlefield
Morenci

"Z" ST.
37TH To 38TH
⑤ STR. 5 & GRDS FOR 6" AC WAT

SEPT 10 1953
BEATTY
SHOOK
KEMP

73

Time	Start	End	Start	End	Notes	Ground line & pipe	Other
PM.	5.30	16.36	11.06		3E RR 38 TH & ALPHA		(FB-851 pg. 12)
(11)	13.31	26.74	2.93	13.43			
SET TOM	8.91	35.11	0.54	26.20	③ LET NW Cor "Z" & 37 TH		
0400 =	Why R.L. 37 TH ST.						
0+50	Begin Work		9.3	25.8	22.4	C34	25.5 7.6
1+00			8.1	27.0	22.4	C46	8.2
1+37			8.1	27.0	22.4	C46	8.3
1+48.5	WAT MET		8.0	27.1	28.6	F1E	3711 2 ST
1+50			8.2	26.9	22.0	C49	8.4
2+00			11.0	24.1	20.4	C37	10.9
2+10	N WAT MET		10.0	25.1	30.6 21.0	F55	3732 "
2+45			10.5	24.6	26.4	C36	10.7
2+33	N WAT MET		7.9	25.2	31.2 23.0	F60	3722 " REAR
2+75			7.0	26.1	23.4	C31	8.9
3+00			6.5	28.6	25.2 27.7	C34	6.3
3+37	12.11	45.27	1.85	33.26	29.0 29.6	C43	1.7
3+57.5	WAT MET		10.6	34.8	23.5	C13	3743 "
3+87			6.8	38.6	31.3 34.6	C74	6.6
4+25			2.1	43.3	31.6	C17	2.0
4+27.5	WAT MET		3.3	42.1	34.8	C73	3757 "
4+50			2.2	43.2	31.6	C116	1.8
5+00			7.8	37.6	31.6	C60	7.2
5+50			11.8	33.6	31.6	C72	10.9
6+00			10.1	35.3	31.6	C37	7.5
6+50	S WAT MET		7.5	35.9	36.6	F03	1304 38 TH
6+50			8.6	36.8	32.4	C44	8.4
6+56	F4 TEE		8.9	36.5	32.5	C42	8.6
6+90	= End work		8.29	37.08	33.2	C38	
TD	000	26.01	9.30	36.01			
WD	030	23.15	15.76	22.85			
W & BM	445	15.72	14.88	11.27 = 11.06			

Sept. 11 1953
BEATTY
SHOREY
KEMP.

74

PARADISE ST.
SPRINGFIELD TO TOOLEY
⑤ STKS & GRDS FOR 8" A.C.

Sta	BM	12.60	446.77	434.17	Top FH SE Cor Springfield & Paradise (F.D. 852 pp 4)			
	04.65 = EXISTING GN. (4"?)							
	04.70							
	04.60	BEGIN WORK	9.4	437.4	431.3	06.1	NOTE: - 2' of pipe moved 0.2' RT. to meet existing	436.6" Ground line & pipe 10.2
	1+00		7.3	439.5	433.7	05.8	2' of pipe moved 0.4' RT.	7.9
	1+50		4.9	441.9	437.1	04.8		4.9
	2+00		2.0	442.8	440.5	04.3		2.1
	ID	11.40	457.93	0.24	446.53			
	2+50		10.8	447.1	442.8	04.3		10.6
	3+00		7.9	450.0	445.1	04.9		7.5
	3+50		5.0	452.9	447.4	05.5		4.5
	4+00		2.3	455.6	449.8	05.8		1.9
	4+50	8.01	465.76	0.18	457.75	452.1	05.2	457.9 0.6
	4+85.5	F.H. TEE	2.1	458.7	453.7	05.0		7.0
	⑤ F.H.		8.1	457.7	457.3	04.0	04.0	
	5+15.5	6" 8" TEE	6.5	459.3	454.8	04.5		6.4
	5+50		5.9	459.9	455.6	04.3		5.8
	6+00		5.4	460.4	456.2	04.2		5.3
	6+50		4.3	461.5	456.6	04.2		4.3
	7+00		3.3	462.5	456.2	06.2		3.2
	+26.1							
	7+29	6" 8" TEE	2.7	463.1	455.5	07.5		2.6
	ID	4.12	466.99	2.89	462.87			
	OK FF		4.81	462.18	462.23		prop. Cor	

PARADISE ST
CONT'D

WAT. MET. 5.

446.77

9/11/53

75.

0177 Swly	7.9	438.9	4370	019	1910 Paradise
1179 Swly	1.2	445.6	4437	019	1920 "
2139 Swly	8.2	449.7	4466	031	1930 "
2147 NELY	12.6	415.3	4460	F07	1923 "
3170 Swly	1.5	456.4	452.6	038	1942 "
5182 NELY	3.5	460.3	459.2	015	1961-1963
5199 Swly	5.0	460.8	460.2	006	1970
6125 NELY	4.9	460.9	459.8	015	1975
7105 Swly	2.8	463.0	459.0	040	?
7107 Swly	2.2	463.6	459.7	046	?

457.93

465.76

MALLARD ST.
 SPRINGFIELD TO ALCEDO
 ⑤ STRS & GRDS FOR 8" A.C. WAT.

OCT. 13 1953
 BETTY
 MARTELL
 ALEXANDER

76

B.M.	0.84	463.25	462.41	Top. FH SE Cor Springfield & Mallard (FB 818, pg. 23)
0+00	-	20' NLY SE Cor (2x2 CE HUB) SPRINGFIELD & MALLARD		{ 455.0 451.2 } C52 ✓ C90
0+27		BEGIN WORK (90° bend)	31 460.2	
0+75			6.55 458.7	450.7 C80
1+00			5.05 458.2	450.6 C76
1+50			5.25 458.0	450.4 C76
2+00			4.85 458.4	450.2 C82
+37			3.95 459.3	450.0 C92
+50			3.47 459.8	449.7 C101
3+00			2.15 460.1	448.5 C116
+30			6.15 457.1	447.8 C93
+62			9.62 453.6	447.0 C106
4+00	0.26	450.51	13.00 450.25	444.8 C55
+50			3.74 446.8	442.0 C48
5+00			7.23 443.3	439.1 C42
+30			9.03 441.5	437.4 C41
+62			10.43 440.1	435.6 C45
6+00			11.1 439.4	435.8 C36
6+28			11.94 439.6	435.9 C37
	F.H. TEE		11.17 439.34	440.8 F15 C34
	⑤ P.H.			

5+24 215 5/4 & 5+ 85 from PL

MALLARD ST.

10/13/53

77

(CONT'D)

450.51

6+50		10.47	440.0	436.1	039		
7+00		9.03	441.5	436.3	052		
+50		6.6	443.9	438.1	058		
+55 +68	8" WYE = (10' SELV. E Mulberry St.)	6.4	444.1	438.4	057		
8+00		5.34	445.2	440.0	052		
+50		3.96	446.5	441.8	047		
9+00		1.6	448.9	443.7	052		
Peak	13.33	263.72	0.12	450.39			
+50		11.22	452.5	445.5	070		
10+00		6.0	457.7	447.4	0103		
+08		5.2	458.5	447.6	0109		
+50		2.1	461.6	447.1	0145		
+83		3.22	460.5	446.8	0137		
11+25		8.65	455.1	445.1	0100		
11+58	0.74	452.42	12.04	451.68	443.8	079	12.3
12+00		4.6	447.8	440.4	074		4.9
+50		9.0	443.4	436.3	071	10.2	442.1
+68	F.H. TEE	11.95	440.5	434.8	057	GRD	239.7
13+00	0.03	439.27	13.18	439.24	432.2	042	442.07 (S) 10.35 HUB
			2.85	436.4		3.2	C 2.4 C 7.7
+30		6.72	432.55	428.2	024	6.8	
+62		10.84	428.0	424.0	044	14.2	

MALLARD ST

CONT'D

10/12/53

78.

14+00	0.22	439.27 426.88	13.03 2.4	426.24 424.1	421.2	C27	1.8
+50			6.4	420.1	417.5	C26	5.2
+83			8.27	418.21	415.0	C32	6.9
15+00			9.15	417.3	413.3	C10	8.7
+50			11.5	415.0	408.3	C67	11.1
16+00	0.01	413.35	13.14	413.34			
+50			2.8	412.6	403.3	C93	0.6
+50			4.3	409.1	398.3	C108	4.6
17+00			9.13	404.2	393.3	C109	9.5
OK TBM			11.55	401.80 = 401.84			
17+50	0.00	400.48	12.87	400.25	388.3	C90	3.7
+50			3.2	397.3			
+69		F.H. TEE	6.6	393.9	386.4	C75	6.8
		⑤ F.H.	1.03	399.5	390.5	C90 C13!	E Hyd + 6.4
18+00			12.5	388.0	383.3	C47	12.7
+18			-3.3				
1+23		8' x 6' WYE	15.8	384.7	381.0	C37	15.9

17+00 3.62 403.89 0.21 400.27

OK TBM 2.08 401.81 = 401.84

WATER METERS

12+23 5/4	N	452.42	6.20	446.2	443.5	C27	6653 MALLARD
11+42 5/4	N	463.72	10.27	453.45	448.8	C47	6665 "
7+20 5/4	N	450.51	7.60	442.9	441.1 442.0	C09 C08	6703 "
5+12 5/4	N	450.51	7.94	442.6	443.7 444.0	F.H. F.I.	6725 "

Staked 225 & 5' 75 from

MALLARD ST
(CONT'D)

10/15/50

CHECK LEVELS.

14-	IP	BM.	3.08	468.25		465.17
+		TBM.	1.12	464.80	4.57	463.68
+		IP	1.46	459.38	12.88	451.92
15-	IP		1.26	441.60	13.04	440.34
+		IP	1.15	429.57	13.18	428.42
16-	IP		1.61	417.97	13.21	416.36
+		IP	1.41	406.13	13.25	404.72
17-	IP		0.66	393.66	13.13	393.00
+		IP	1.12	381.57	13.21	380.45
+		IP	0.10	371.01	10.46	371.11
18-	IP		1.17	359.17	13.01	358.00
+		IP	2.41	352.12	9.46	349.71
IP		CK BM.	9.28	355.33	6.07	346.05 = 344.77
CK		IP	13.21	368.37	0.17	355.16
12-	IP		12.53	380.50	0.40	367.97
11-	IP		12.11	392.15	0.46	380.02
7-	IP		12.62	404.63	0.14	392.01
5-		CK BM			0.90	403.73 = 402.43

CONC M^{ON}
NE Cr 69TH & Mallard.

To F.H. Springfield
& Mallard.

465.17

+ 3.08

468.25

- 4.57

463.68

= 402.41 = 1.27 diff.

Top F.H. ATTIX & RADIO DR = 1.28 diff.

402.43

LET ATTIX DR & KLAUBER = 1.30 diff.

MALLARD ST
(CONT'D)

10/15/53

CHECK LEVELS.

14+	B.M.	3.08	468.25		465.17
+	T.B.M.	1.12	464.80	4.57	463.68
+	P.	1.46	459.38	12.88	451.92
15+	P.	1.26	441.60	13.04	440.34
+	P.	1.15	429.57	13.18	428.42
16+	P.	1.61	417.97	13.21	416.36
+	P.	1.41	406.13	13.25	402.72
17+	P.	0.66	393.66	13.13	393.00
CK 17+	P.	1.12	381.57	13.21	380.45
+	P.	0.10	371.01	10.46	371.11
18+	P.	1.17	359.17	13.01	358.00
+	P.	2.41	352.12	9.46	349.71
19+	CK B.M.	9.28	355.33	6.07	346.25 = 344.77
CK	P.	13.21	368.37	0.17	355.16
12+	P.	12.53	380.50	0.20	367.97
11+	P.	12.11	392.15	0.46	380.02
7+	P.	12.62	404.63	0.14	392.01
5+	CK B.M.			0.90	403.73 = 402.43

CONC MON
NE Cor 69TH & Mallard.

To F.H. Springfield
& Mallard.

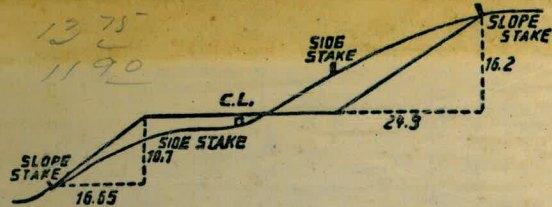
465.17
+ 3.08
468.25
- 4.57
463.68

= 462.41 = 1.27 diff.

Top F.H. ATTIX & RADIO DR = 1.28 diff.

402.43

LET ATTIX DR & KLAUBER = 1.30 diff.



DISTANCES FROM SIDE STAKES FOR CROSS-SECTIONING.

SLOPE 1 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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