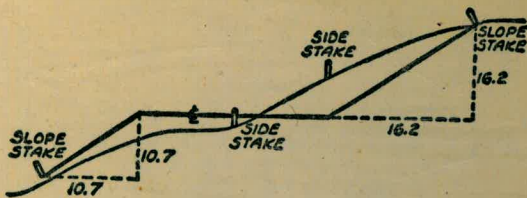


W 922



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.

36° 45'

18 30

36° 45'

18 22

8960
1822
71 38

1.0536

5 2680

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	.89	.99	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	1.58	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	.037	.043	.049	.054	.060	.065
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	.266	.353	.440	.528	.618	.707	.797	.887	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	.885	1.06	1.25	1.43	1.62	1.80	1.99	2.18	2.38	2.58
100°	.200	.401	.604	.809	1.01	1.22	1.43	1.64	1.85	2.06	2.28	2.50	2.73	2.96
110°	.268	.536	.806	1.08	1.35	1.63	1.91	2.20	2.48	2.76	3.05	3.35	3.66	3.96
120°	.360	.721	1.08	1.45	1.82	2.19	2.57	2.95	3.33	3.72	4.11	4.50	4.91	5.32

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VANCOUVER ST.; QUINCE TO TAMARAC—PRELIM. 1-4 ✓
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 Prelim Group 29 135° North
 Martinez St Harbor View Dr to 11-13 ✓
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 existing 1" CI
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VANCOLIVER ST.
 QUINCE TO TAMARAK ST.
 (PRELIMINARY)^A

FOR CROSS SEC'S 10/26/60 See Page 33

0+00 = NORTH LINE QUINCE ST.

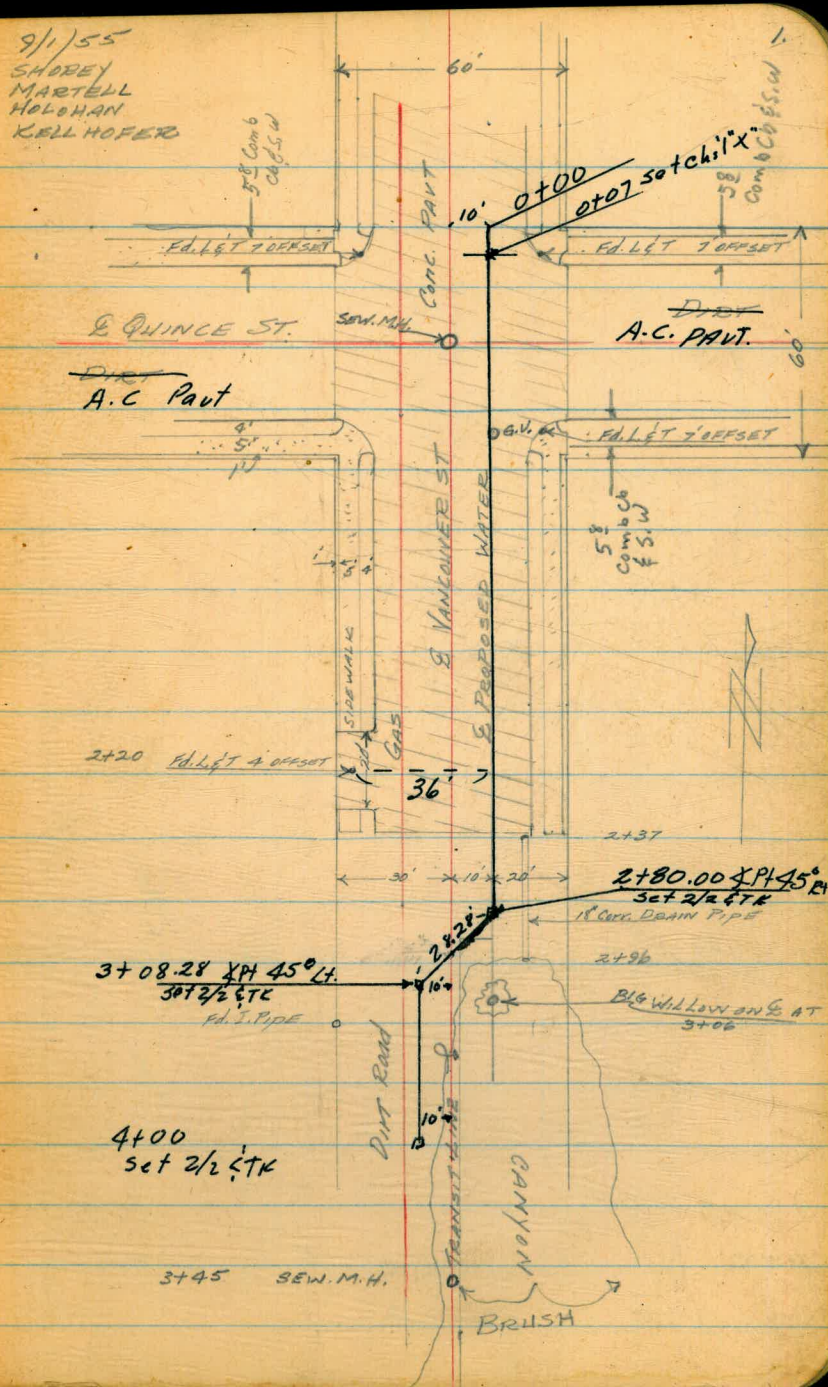
2+20 E ALLEY WEST

2+35²⁵ END CONC. PAVT.

2+86 P.O.T. RAN TRANSIT LINE 2' E. E ST. TO 6+00

3+30¹⁰

9/1/55
 SHORREY
 MARTELL
 HOLOHAN
 KELL HOFER



QUINCE ST.
 DIRT
 A.C. PAVT.

CONC. PAVT.

DIRT
 A.C. PAVT.

VANCOLIVER ST.

PROPOSED WATER

DIRT ROAD

CANYON

BRUSH

2+20 F.A. L&T 4' OFFSET

36'

2+80.00 X P145°
 SET 2 1/2' ETC
 1" CORR. DOWN PIPE

3+08.28 X P145° LT.
 SET 2 1/2' ETC
 F.A. I. PIPE

4+00
 SET 2 1/2' ETC

3+45 SEW. M.H.

60'

10'

60'

60'

30'

10' x 20'

10'

10'



0+00
 0+07 set ch. i' x
 58
 COMB C6
 E S W

58
 COMB C6
 E S W

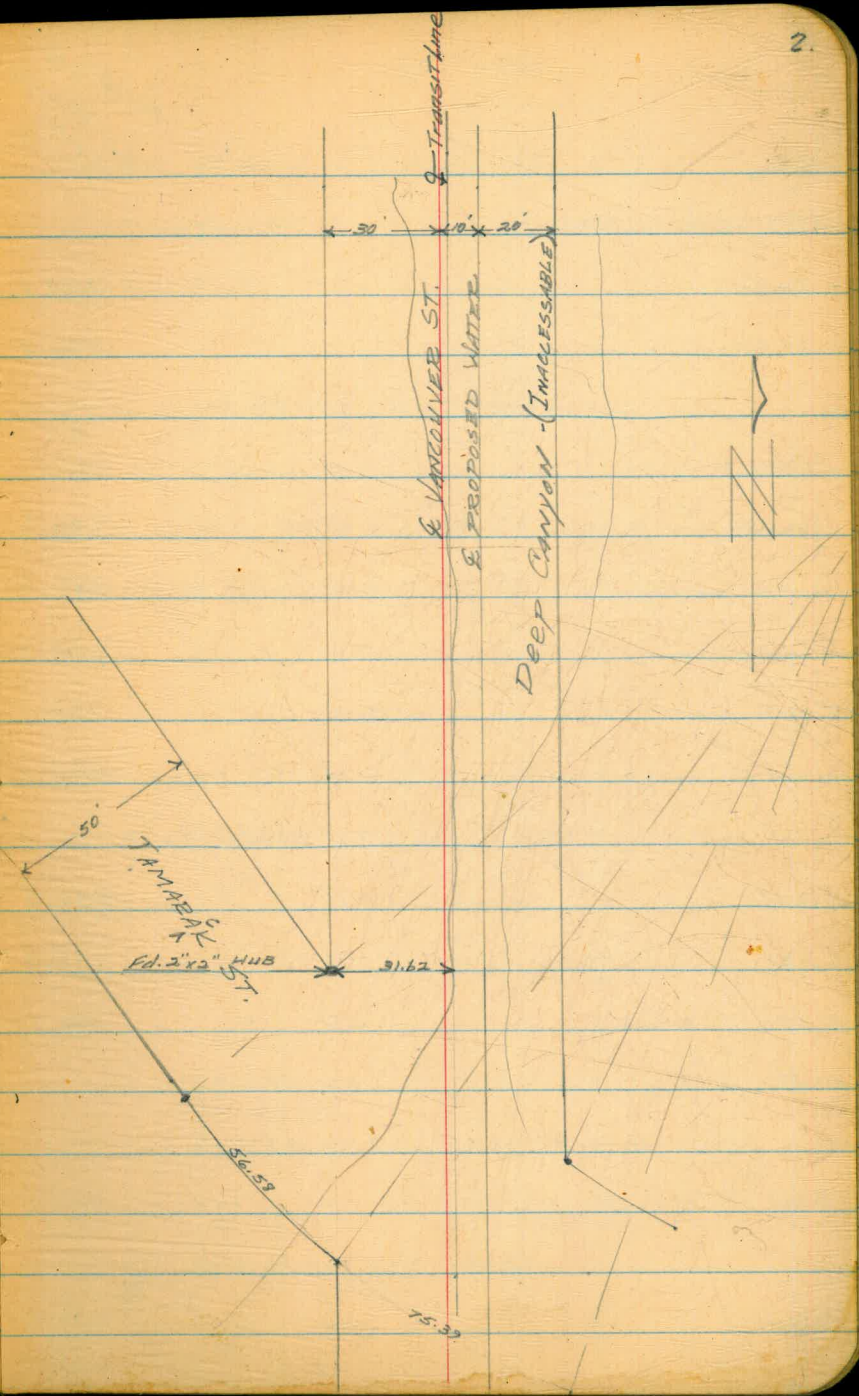
2+96
 BIG WILLOW ON E AT
 3+06

VANCOUVER ST.
(CONT'D)

TRANSIT LINE 2'E. & ST.

5+23⁶⁴ Fd. 2"x2" HUB N.W. COR. VANCOUVER & TAMARAK

6+10



75.33

(CONT'D)

Red'd
by Rocky
Jr

BM	13.30	292.99	279.69
SET TBM	0.24	293.21	0.02 292.97
0+00		0.65	292.6
0+30		1.12	292.1
		1.29 13.2	291.9
0+50		1.49	291.7
0+53		2.91	290.3
1+00		3.04	290.2
1+50		4.77	288.4
2+00		6.48	286.7
2+35 ²⁵		7.70	285.5
		9.0	284.2
2+38		8.0	285.2
2+50		7.2	285.0
2+76		6.5	286.7
2+86		8.0	285.2
TP	0.10	287.62	5.69 287.52
3+00		4.1	283.5
		1.34 5.54	
3+35		6.6	281.0

NOTE: STA. IN ERROR 10'-
P.O.T {2+76 = 2+86}
{6+00 = 6+10}

N.E.B.P. NILE & QUINCE ST.

7' OFFSET L&T N.E. COR. QUINCE & VANCOUVER

ON CONC. PAVT.

0+30 10' LT TOP SEW. M.H

ON CONC. PAVT.

TOP OF G.V. STEM 0³ RT.

ON CONC. PAVT

END CONC. PAVT.

18" CORR. DRAIN 9' LT. 2+37

LT

RT

7.0
10

7.3
10

7.0

6.1
10

13.6
10
CORR. DRAIN

5.3
8 5.7
10

9.4
10

0.1
5 0.1
10

TOP SEW M.H. 10' RT 3+35

E

17.6
14 11.6
8

3.8
5 1.3
10

(CONT'D)

Red'cd
by RockyLTRT

4.

287.62

3+50			9.7	277.9	14.5 10	X	2.7 10	1.9 12	1.6 15
4+00			13.7	273.9	18.0 10	X	7.1 10	3.2 17	3.0 20
TP	3.05	277.95	12.72	274.90					
4+50			14.5	263.5	22.3 10	12.3 5	X	10.7 8	8.7 10
TP	0.08	265.55	12.48	265.47					
4+83			10.0	255.6	17.4 10	X		5.1 10	
5+00			15.4	250.2	21.2 10	X		9.4 10	
TP	2.42	255.25	12.72	252.83					
5+17			9.4	245.9					
5+21			11.9	243.4	9.8 15	13.8 5	13.2 3	X	
5+25			15.7	239.6	BOTTOM CANYON				
5+31			12.0	243.3					
5+50			12.0	243.3	6.7 10	9.7 3	X	16.1 10	
5+58			8.0	247.3					
TP	11.77	265.19	1.83	253.42					
5+76			10.0	255.2	11.4 10	X	9.6 8	20.6 15	
5+89			3.6	261.6	4.6 10		5.3 8	8.8 12	16.1 14
6+00			5.8	259.4	3.6 10	X		10.7 10	
TP	11.38	271.61	4.96	260.23					
SET TBM	13.30	278.38	6.53	265.08	2" x 2" HUB N.W. COR. VANCONVER & TAMARAK				
TP	13.03	289.16	2.25	276.13					
TP	7.23	276.83	0.36	288.80					
TP	1.67	288.50	9.20	286.83					
C.K. B.M.			8.83	279.67 = 279.69					

ALLEY BLK'S 5 & 10
QUINCE TO MAPLE
(Preliminary)

9/2/55
SHOREY
MAETEL
HOLMAN
KELLHOFER

20
E 46

5.

0+00 = N/L QUINCE ST.

206
27
285

Fd. CONC. MAN

E QUINCE ST.

208.00

60'

20'

10' 5"

E ALLEY BLK'S

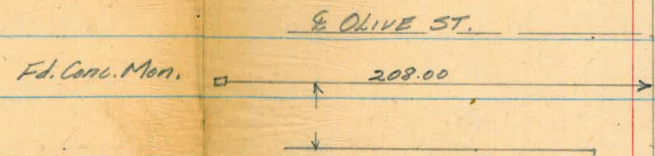
E OLIVE ST.

Fd. CONC. MAN

208.00'

60'





E ALLEY BUK 10

E MAPLE ST.

Fd. 3' x 2' HUB
 MKD E ALLEY 4' 13" OFF
 E MAPLE



B.M.	4.81	305.60	300.79	
0+00			3.9	301.7
0+50			3.6	302.0
1+00			4.6	301.0
1+50			7.0	298.6
2+00			9.4	296.2
2+50			10.8	294.8
3+00			10.8	294.8
3+50			9.8	295.8
4+00			9.0	296.6
4+50			7.8	297.8
TP	1.44	299.77	7.27	298.33
5+00			1.7	298.1
5+50			4.1	295.7
6+00			7.3	292.5
6+50			9.5	290.3
7+00			11.7	288.1
CK. TBM			8.98	290.79 = 290.71
TP	1.20	287.74	13.23	286.54
7+50			2.1	285.6
8+00			3.7	284.0
8+50			5.2	282.5

Reduced by J. Gray 9-19-55

S.W. CONC. MON QUINCE § 46th

NAIL IN P.P. S.W. COR. OLIVE

		287.74			
9+00			8.2		279.5
9+50	TP 1.09	275.83	12.5 13.00	274.74	275.2
9+94			3.7		272.4
10+00			5.9		269.9
10+30			13.5		262.3
10+50	TP 1.14	263.86	14.5 13.11	262.72	261.3
11+00			10.3		253.6
11+50			13.1		250.8
11+70	TP 0.05	251.88	12.3 12.03	251.83	251.6
12+00			8.1 13.30	238.58	243.8
12+50	TP 2.54	230.83	7.8 12.88	228.29	233.4
13+00	TP 0.95	218.90	9.3 12.88	217.95	221.5
13+50			7.4		209.5
13+81 ³⁹			21.6		197.3
SET TBM	11.89	221.20	9.59	209.31	
CK. CONC. MON.			5.35	215.85 = 216.72	

LT	RT
274.8	278.3
12.9 5	13.9 15
271.8	274.8
5	15
260.5	270.4
15.3 5	5.9 15
259.4	268.2
16.2 5	7.6 15
252.0	260.5
11.9 5	3.2 15
249.6	253.9
14.3 5	10.8 15
ON BROKEN CONC. FILL	BASE REMAINING WALL
242.4	248.5
9.5 5	3.4 15
231.9	237.8
8.3 5	3.2 15
229.4	227.4
11.2 5	3.4 15
207.2	212.6
11.3 5	6.3 15
195.6	200.7
23.3 5	18.2 15
2" x 2" HUB & ALLEY	
CONC. MON. 46 th & MAPLE (BENCH BOOK)	

Saratoga Ave Abbott to
 240' West
 Group 29 pole

West
 Williams
 Varonakis

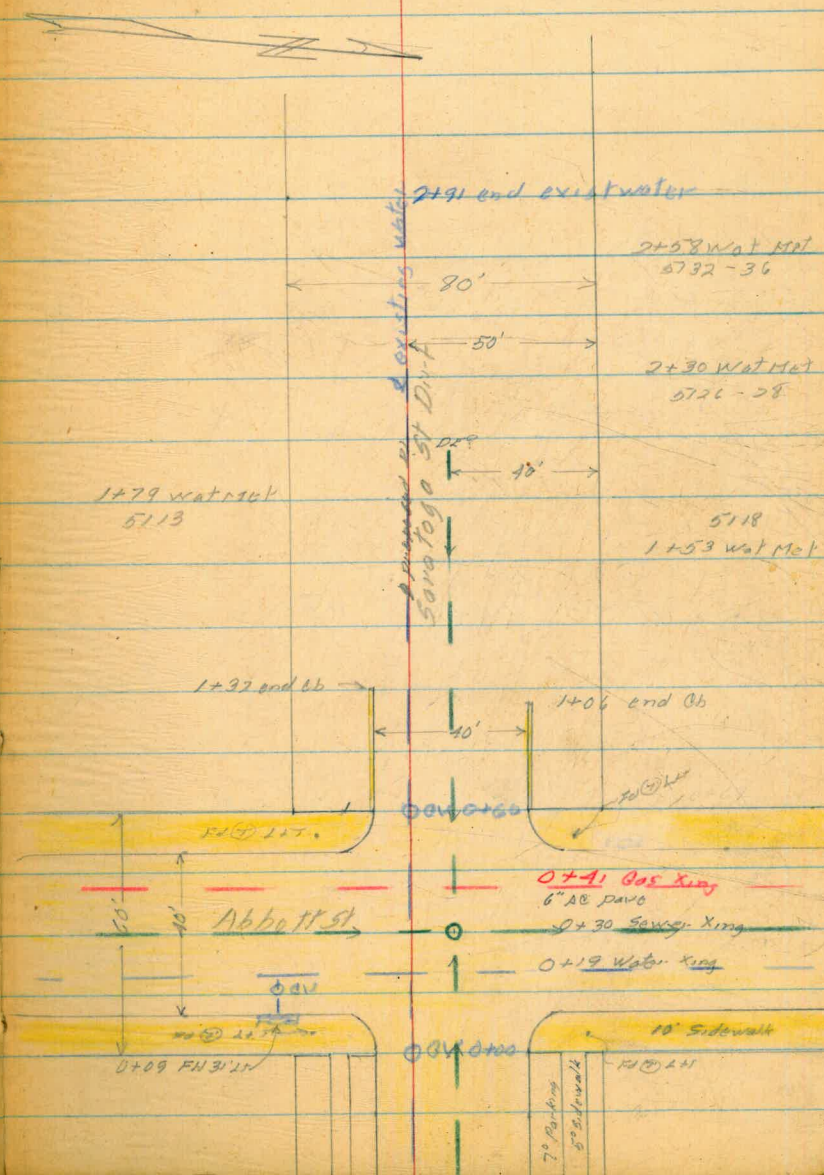
0+60 Begin Work
 2+99 End of Work
 6' 30" 11' 21" 31' 21"

9.

12-9-55

3+00±

End of Work



0+53

POT

0+00

ELY prop line Abbott St

Profile

	4.93	9.97	5.04	
0+00		4.74	5.2	
			+ 8.7 to Flow	
0+30		4.75	5.2	
+50		4.95	5.0	
+60		5.24	4.7	
1+00		6.2	3.8	
+50		6.6	3.4	
2+00		6.8	3.2	
+50		7.0	3.0	
3+00		7.1	2.9	
	5.33	10.47	4.83	5.14
			5.43	5.04 = 5.04
	7.02	12.06		5.04
	6.31	11.80	3.67	8.49
			4.75	10.05 = 10.13

Reduced by A.E. Mathison
 12-21-55
 884

Soreloga + Abbott NW (D) 1st

Ely prop line Abbott CV on Q
 Top Ely rim sewer MH 10' R1

end of paving Q on Q

End of work

NW BP Abbott + Brighton Ave

Martinez Harbor View Dr
to 135 North
pelim Group 29

2+85

End of line.

1+85+

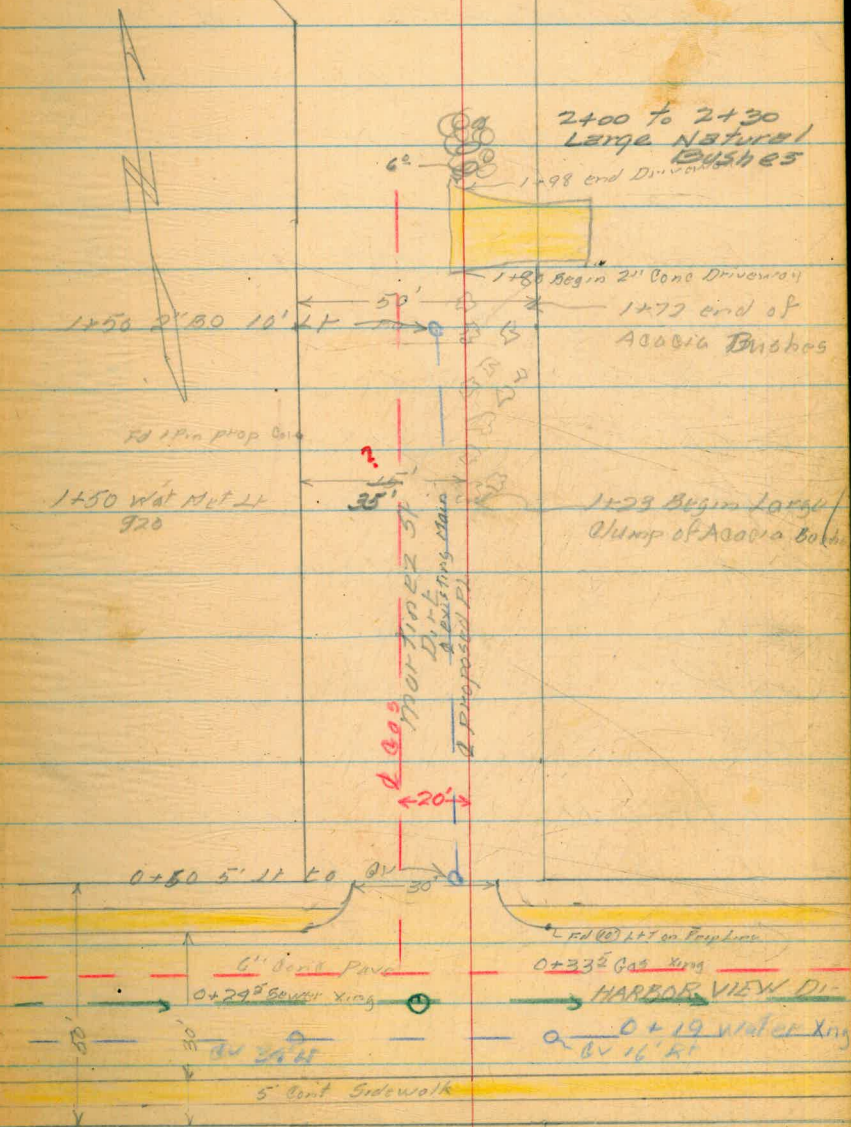
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0+00

5' prep line Harbor View Dr

West
Williams
Varonakis

12/13/55



Martinez Dr.
existing easement
proposed Dr.

Profile

Reduced by A. E. Mathison
2-22-57

0.79	258.19	257.41
0.62	246.47	1234 245.95
0.73	234.02	13.18 233.29
0.63	223.65	11.00 223.02
0.22	210.65	13.22 210.43
0.67	198.84	12.48 198.17
0+00	5.34	193.5
0+10	6.73	192.1
0+24.5	5.54	+4.2 To Flow 193.3
0+40	6.12	192.7
+50	5.56	193.3
1+00	6.3	192.5
+50	4.5	194.3
2.22	198.40	266 196.18
1+80	4.54	193.9
+85	4.65	193.7
+98	5.04	193.4
5.92	199.66	4.66 193.74
12.78	204.31	9.13 191.53

SE Top FH Bangor + Harbor View Dr

Sly prop line Harbor View Dr

Gutter line

1+8.9 189.1

9.5 Lt Top Fly Run Sewer MII

Gutter line

end of 6" cone pave

10	3.3	8.1	9.5
8.0	5.2	5.0	15.0
	3.2	7.5	
	7.2	12.5	

Begin 2" peo driveway

4.20	6.29
end Driveway 6.2	12.49

end 2" cone Driveway

TBM

(10) Lt NE Ch Martinez + Harbor View Dr

Martinez St Cont

204.31

12.89 217.13 0.07 204.24

12.86 229.77 0.22 216.91

12.92 242.54 0.15 229.62

12.24 254.75 - 0.03 242.51

6.60 259.11 2.24 252.51

1.71 257.40 = 257.41

TBM 9.14 200.69 191.55

1+98 7.3 193.4'

2+32 11.1 189.6'

2+50 11.2 189.5'

2+61 10.8 189.9'

2+76 12.2 188.5'

2+85 14.8 185.9'

OK TBM 9.14 191.55'

L&T NE Cor Harbor View Dr
Martinez St.

12/28/55

BETTY
SHOLEY
KEMP
SMITH.

37TH ST. BETA TO ALPHA

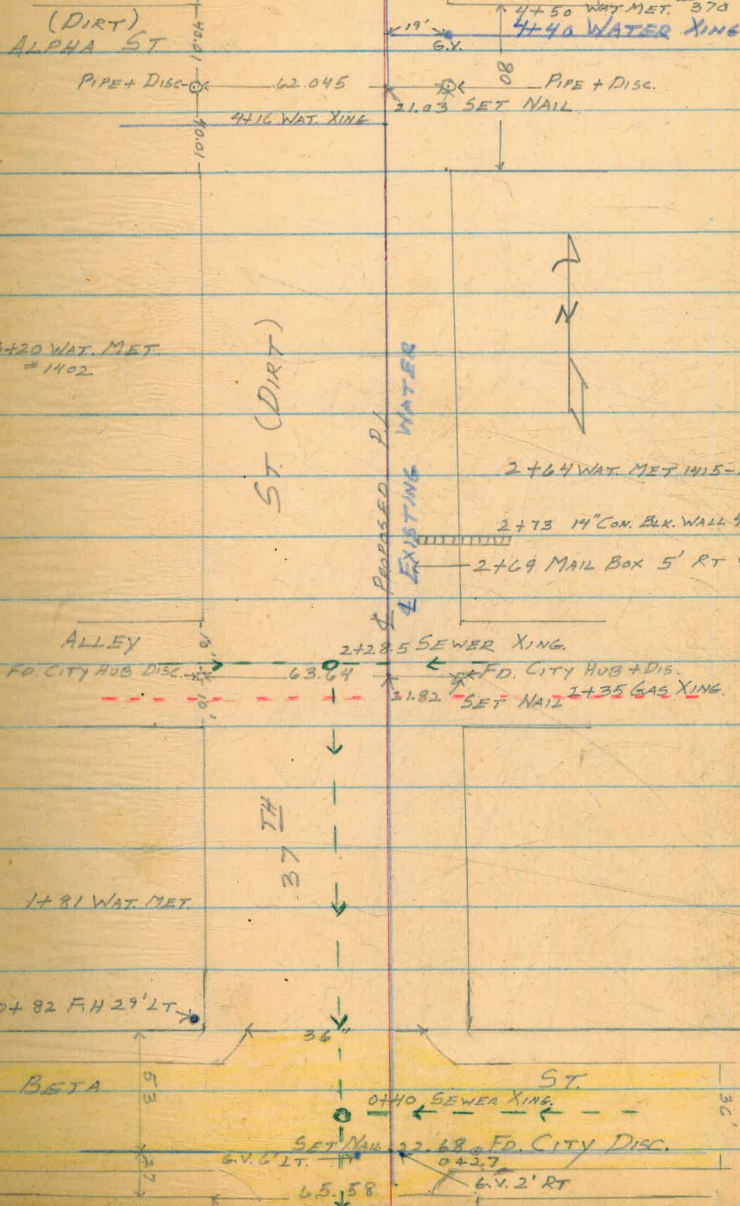
WEST
WILLIAMS
VARONFANIS
KELLHOFER

14

12/23/53

4+60

No. PROP. LINE ALPHA



0+80.

END 3" A.C.

0+63

END 5" CON. APRON

0+53

BEGINNING 5" CON. APRON

0+27

POT. 0+27 END CON. APRON

0+17

BEGINNING 5" CON. APRON

0+00

So. PROP. LINE BETA BEGIN 3" A.C.

37TH ST. BETA TO ALPHA
 & PROFILE GROUP 104

WEST
 WILLIAMS T
 VARONFAKIS &
 KELLHOFER

15.

12/22/55 WARM + SUNNY

B.M. 3.39 14.45 11.06

S.E.B.P. 38TH ALPHA

T.P. 4.42 12.00 6.87 7.58

BEGIN A.C.

0+00 5.00 7.0

So. PROP BETA BEGIN WORK

+22 5.50 6.50

So. GUTTER LINE

+40 5.05 6.95

M.H. 7' LT E. RIM + 8.3 To FLOW

+50 5.25 6.75

+57.5 5.47 6.53

No. GUTTER LINE

+80 5.16 6.84

END A.C.

1+00 5.1 6.90

4.6 4.5

2' RT 10'

+50 5.4 6.60

4.7 4.3

2' RT 10'

2+00 5.5 6.50

5.3 4.2 3.9

2 RT 3' 10'

+28.5 4.98 7.02

M.H. 8' LT. E. RIM + 7.8 To FLOW

+50 5.4 6.60

5.4 3.7 3.5 ON

2.5 RT 7 10 LAWN

3+00 5.5 6.50

5.4 3.8 3.7

2 RT 2 10

+50 6.3 5.70

6.2 3.9 3.3

1.5 RT 5 10

+63 6.6 5.40

2.4

10 RT.

+90 7.3 4.70

BOTTOM CREEK

4+00 6.8 5.20

7.0

10 RT

+15 5.3 6.70

5.2 0.7

6 RT 14

Reduced by J. Gray 1-23-56

37 TH ST. CONT.

12.00

4+50

2.1

9.90

+60

1.2

10.80

T.P.

11.56

23.47

0.09

11.91

T.P.

9.68

33.12

0.03

23.44

T.P.

6.20

39.32

0.00

33.12

CHECK

B.M.

5.61

33.71 = 33.65

16.

12/22/55

2.1

0.0

9RT

12

No. PROP. ALPHA

1.2

+1.2

END WORK

9RT

11

S.W. 7' 11" + T.

37 TH

+ BOSTON

52nd ST; LANDIS ST; & REX ST;
 Elev. 3 Top of existing Wat. Main
 & services @ Wat Met

1-9-56
 BEATTY
 MARTELL

17

BM 5.06 338.30 3.17 333.24
 335.13 = 335.26

NE 80 52nd & Rex
 SE. FH. FB 920-24

9.55
 3.35
 12.90

0+00 = 5 RL Univ.

1+29 Top Main 12.9 325.4
 2+14 WM Wly 8.1 330.2
 2+14 T.M 9.0 329.3
 3+19 WM Wly 8.6 329.7
 3+20 T.M 8.5 329.8

1+65 WM Nly. } 9.6 328.7

1+74 TM } REX ST 8.85 329.45
 0+00 = E 52

2+08 WM Sly. } 10.3 328.0

6.90
 2.70
 9.60

7.6
 2.7
 10.3

3+76 WM W 7.9 330.4

4+27 WM E 8.35 329.95

4+27 WM W 8.35 329.95

4+67 WM W 10.15 328.15

5+01 WM W 9.55 328.75

5+02 WM W 9.05 329.25

5+00 WM E 9.20 329.1

TP 0.04 337.72 0.62 337.68

Top FH 52nd & Wightman

6+40 TM 6.0 331.7

6+47 WM E 5.8 331.9

6+51 WM W 5.9 331.8

6.35
 3.8
 10.15

52nd, LANDIS, REX.
(Cont'd)

1-9-56

18,

337.72

7+30 WM E		6.8	330.9
7+68 WM W		8.15	329.57
7+84 WM E		8.5	329.2
7+85 WM E		8.6	329.1
7+95 TM 8+01 E Spike		8.80	328.92
8+19 WM E		10.6	327.1
TP 2.34 331.04		9.02	328.70
9+09 WM E		7.35	323.69
9+10 WM E		7.35	323.69
9+30 TM (Landis)		8.0	323.06
9+50 WM E		6.6	324.44
9+51 WM E		6.85	324.19
9+52 WM E		7.05	324.0
10+12 WM E		3.6	327.44
TP 6.56 336.65		0.95	330.09
10+28 WM E		5.7	331.0
10+50 WM E T.M		8.4	328.25
10+97 WM S		7.4	329.25
10+97 TM		7.80	328.85
11+14 TM		8.5	328.15

7.2
3.4
10.6

1-9-56

19.

Landis St
Elev Top of Main & Ser.
Cont'd

		336.65		
11+39	WM S		8.15	328.5
IP		3.18	337.05	2.78 333.87
CK BM			3.67	333.38 = 333.20
IP 10+50		7.75	336.00	328.25
		0+00	52nd @ Landis.	
0+70	WM S			
0+70	TM = 10+97		6.70	329.3 = 329.25
1+07	WM S = 11+39		7.5	328.5
ID		1.64	329.12	8.52 327.48
1+58	TM		5.45	323.67
1+60	WM S		5.50	323.62
1+73	WM N		7.85	321.27
1+90	WM S e		6.90	322.22
1+90	F.H -			
2+01	WM N		10.7	319.0
ID		1.33	321.21	9.04 320.08 SEWMH
3+04	WM N		7.31	314.10
3+19	WM S		7.31	314.10
3+57	WM S		7.70	313.71
3+58	TM		8.25	313.16
4+04	WM N		9.50	311.91

	321.41		
4+80 WM S		8.15	313.26
4+87 WM N		9.95	311.46
5+29 WM S		8.65	312.76
5+35 WM N		9.35	312.06
5+50 T.M.		8.96	312.45
6+61 TM			
6+61 WM S			
	5.62	321.53	5.50 315.91
49P on x in driveway			4.16 317.37 = 317.47 (0.10 low)
	6.50	323.87	
same as above			
6+61 TM		8.84	315.03
6+61 WM S		8.52	315.35
3+57 WM W.		9.1	314.8
3+10 WM W.		7.5	316.4
2+34 WM W		7.2	316.7
2+00 WM W.		8.70	315.2
3P 3.01	320.88	6.00	317.87
1+49 WM W.		6.56	314.32
0+89 WM W		7.15	313.73

1-13-56

1-10-56

21

320.88

0+50	WM E.	7.10	313.8
0+45	WM W	7.75	313.13
0+30	WM W	7.90	313.0
0+00	= NY Prop line Sterling Ct. Fly.		
OK BM		3.76	317.12 = 317.23

(0.11 low)
Nail in pole SW Cor Altadena & Sterling Ct. wdy

SOLEDAD Rd end of existing 8" AC MAIN
 to Soledad Way
 SOLEDAD WAY Soledad Rd to existing
 6" CI Main
 Pelton

1+92 FH 7'16"

1+87° 3/4" IP prop cor FC 10' LE

1+25° 82° 10' 30" LL

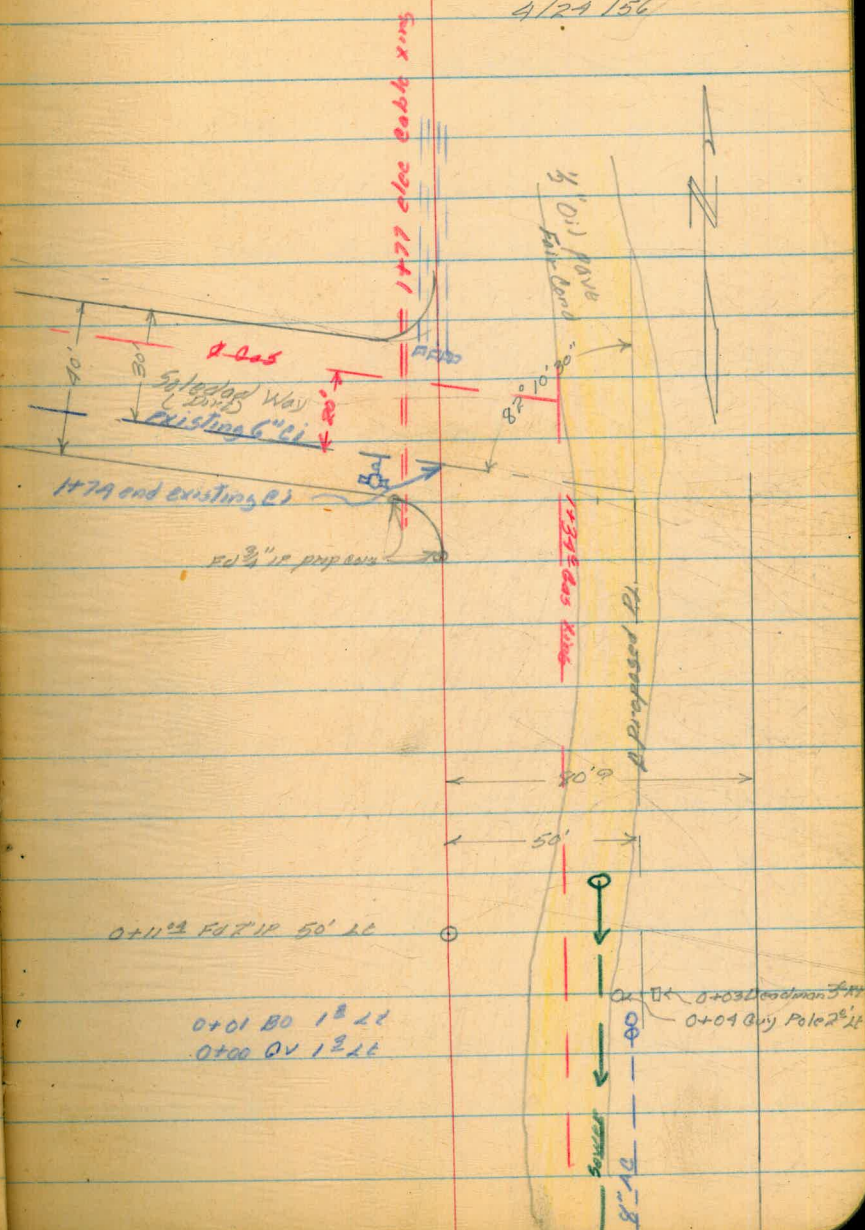
0+11⁰² POT

0+00 QV 8" AD 3° LL

West
 Williams
 Varonakis
 Kellhofer

22

4/24/56



Soledad Rd
Soledad Way & profile

0+	12.34	357.22	344.98
0+00		6.1	351.12
0+00		10.60	346.62 +7.2 To Flow
0+26		4.30	352.92
0+50		2.98	edge of oil pave 354.24
	9.01	366.16	0.07 357.15
1+00		8.35	357.81
1+25 ⁶⁹		6.30	359.82
1+35		6.11	360.05
+50		0.3	360.86
+74		6.58	359.58
+74		4.1	362.06
+92		5.81	360.35
+92		3.2	362.96
	1.40	366.20	1.36 364.80
		3.29	362.91 = 362.87

Reduced by
G.J. Lee

23

Soledad Way

Spike in power pole 477717H 250' South of
6.01
7'11" edge oil

6.1
8' RT edge Fill

Top stem CV existing AC Main

Top east edge sewer MH 95' LF

2.2
12' RT

2.1
9' RT edge of Fill

2.55
10' RT & oil Road

8.36
13' RT edge oil

8.65
8' RT edge oil

4.63
10' RT edge oil

end oil pave

6.2
10' RT

4.74
10' RT

end of existing 6" ci Top of pipe

Top of existing 6" ci at east end FH

TP Top FH 7' LF 1+92
477714H

BM Spike in power pole east Side Soledad

DANA LANDING
8" AC Pipe Line

West
Williams
Paulson

Cool

24

10/1/56

3+33

end of work install

proposed F.H. (6") Lt 3+33

Parking
Area

AC pave

7+1A⁵ Begin AC pave

Small
Trees

1+03 X

36° 45' Lt

0+90⁵ Wly Pk line

90°

0+05³

existing 16" Pl. Begin work

INGRAHAM ST

0+00

Lead + Tack line on F.H. at
Line Ingraham

11.51
90.07
35.08
125.15
F.H. in CB
F.H. in CB

South end of South Bridge

DANA LANDING PIPE LINE
CONT.

20

10/1/56

	4.67	17.21		12.54	
	4.78	16.93	5.06	12.15	
0+05			6.2	10.7	
0+40			6.30	10.63 - 4.00	
0+50			4.9	12.0	6.6
	4.47	16.69	4.71	12.22	6.6
1+03			4.6	12.1	6.8
+50			4.7	12.0	7.0
2+00			4.7	12.0	7.2
+50			4.3	12.4	7.4
3+00			4.4	12.3	7.6
+33			4.0	12.7	7.8
+33			3.9	12.8	7.8
	4.52	17.31	3.90	12.79	
			4.78	12.53 = 12.54	
			4.77	12.54	

Area Dana LANDING
BM Cor Stone Ch Nly End parking

Begin work

6.63

5.1

0.5³

0.5²

0.4⁸

0.5²

0.4³

0.4⁹

0.0⁵ to Flange

0.5² to EL (5) & Fire Hyd

See

Top of Ch by FH

Yanouver 180' North of Maple to Kabria

5K5 for Meters
meters set 16' from Q St 3877 D

1.31 287.77 286.46

0.59 275.03 13.33 274.44

0+20 Met Ely 11.2 263.8 262.1

0+44 " " 8.6 266.2 262.9

0+89 " " 4.4 270.6 266.3

2+46 3.9 271.1 269.8

TP 3.35 276.95 1.43 273.60

2+75 Met Wly 5.2 271.8 269.1

+80 Met Ely 6.5 270.5 268.8

3+24 Met Wly 6.3 270.7 269.4

3+70 " " 7.1 269.9 269.6

4+23 " " 7.6 269.4 269.9

+48 " " 7.9 269.1 270.0

+97 " " 7.1 269.9 269.6

5+66 Met Ely 7.1 269.9 268.7

+74 Met Wly 5.6 271.4 269.1

6+39 Met Ely 6.3 270.7 268.3

+45 Met Wly 5.5 271.5 268.8

+82 " " 5.8 271.8 268.6

West
Williams &
Kellhafer &

273.60

26

2/1/57

line maple
Sta 2+40 sly prep

Bm SW BP Maple & Montclair

C 12 2639

C 32 Replaced Gunney 2/21/56

C 3⁵ 2625

C 4³ 2615

C 13

① B FH existing Hyd 182 from Q

Top FH

C 22 2546

C 12 2545

1.6 on edgework

C 0³ 2538

C 0³ 2530

F 0⁵ 2524

F 0² 2516

C 0³ 2506

C 12 2445

C 2³ 2448

2438 2 Mute

C 2⁴ 2479

C 2² 2432

C 2⁶ 2428

Rad 14

meter set 26' off 25'

2.6

3.9

1.1

4.6

6.7

2638

+ 6.1

2699

- 3.7

2662

VANCOUVER STKS FOR METERS
CONT.

SAME PARTY

27

276.95

7+02 MET WY	6.2	270.8	268.5	C 2 ³	2424	
+25 " "	6.6	270.4	268.3	C 2 ^L	2420	
8+04 MET WY	7.4	269.6	266.8	C 2 ^B	2409	
+50 " "	9.3	267.7	265.9	C 1 ⁸	2393	Meters set 21' from 9 51
	3.35	273.60		Top Fill		

155' from N by prop line Maple to R 25' away

HARBOR Dr Pipe Line Revised
 Alignment At Harbor Dr Bridge
 East Side of Bridge & Profile

	1.57	19.60	18.09	
TP	1.19	13.13	7.66	11.94
= 124+89 old align				
0+00 Revised Align			8.53	4.60
0+00			11.79	1.34
0+10			7.6	
+20			6.2	
+30			3.6	
+40			1.3	
	8.70	21.09	0.79	12.39
+50			7.3	
+60			5.7	
+70			4.38	
+77 2			4.63	
^{13.5} +90.5			4.01	
			3.00	18.09 = 18.09

West
 Williams
 Kelhofer
 Smith

315157

USGS BM 5E Cor. Bridge

on Hub $\Delta 18^{\circ} 16' RL$

Top of 16" CI

Top of AC Berm Guard Rail Xing

$\Delta 20^{\circ} 46' Lt$

Base of Cone Bridge Abutment

28

0+77 20+46.4

8.53
 3.26
 11.79

East Side of Bridge Cross Sections

	0.06 0+00	18.15	18.09	USGS BM
Q Harbor Di- 90° To		3.62		
25' South of Q		3.93		Edge of Pavc
32 ⁵ " " "		4.15		
34 " " "		3.51		Top 18" wide AC berm
37 " " "		4.38		Top of Bank
52 " " "		12.2	5.95	
64 " " "		14.3	3.85	
80 " " "		14.9		
Q Harbor Di-				
30' West of 0+00 on Tangent		2.58		
25' South of Q Harbor		2.91		South edge AC pave
32 " " " "		3.11		Cutter
33 ⁵ " " " "		2.37		Top 18" AC Berro
37 " " " "		3.14	15.01	Top of Bank
61 " " " "		13.7	4.45	
71 " " " "		14.9		
80 " " " "		15.0		

Q Harbor Dr	18.15	
0+60' West of 0+00	1.69	
Q 25' South of Q Harbor	2.01	Sly edge pave
32' " " " "	2.24	
33 ¹ / ₂ ' " " " "	1.69	Top 18" AC Berrm
36 ¹ / ₂ ' " " " "	1.97	
63' " " " "	13.5	
80' " " " "	15.5	
on Q Harbor Dr		
72' West of 0+00	1.23	
25' South of Q Harbor	1.16	Sly Edge pave
32' " " " "	1.72	Butter Line
33 ¹ / ₂ ' " " " "	1.23	Top 18" AC Butter
36 ¹ / ₂ ' " " " "	1.85	
47' " " " "	6.0	
65' " " " "	14.3	
80' " " " "	15.6	

6

7

8

HARBOR DI-PL Relocation Cont

West Side of Bridge

Profile 0+00 = 133+08

6.96 25.05 18.08

1.37 17.11 9.31 15.74

0+00 7.32

0+00 9.38

+05 5.6

+10 4.5

+15 3.1

+20 2.1

+25 1.84

+31 ± 1.83

+61 ± 0.92

Harbor Dr
0+00 2.25

+25 South of Harbor 3.00

+30 " " " " "

+32 " " " " " 3.14

+34 " " " " " 2.57

+36 " " " " " 2.9

+62 " " " " " 14.3

West
Williams
Kellhofer
Smith

3/6/57

31

∠ 22° 30' Rt 45' West of old ∠

Top of Hub

Top of 16" CI

Top of Bank

Sly edge of AC berm

∠ 18° 26' Lt

Bottom of Concrete Abutment ^{10" High}

Sly edge Bone pave

Guard Rail

Top AC berm

Top of Bank

fence Line Navy Training Cent

30' East of ^{17.11} 0+00 Along Q Harbor Dr
0+30 1.76

+25 South of Q Harbor Dr 2.00

+28 " " " "

+33 " " " " 2.07

+34 " " " " 1.52

+36 " " " " 1.7

+39 " " " " 2.3

+66 " " " " 14.0

9.32 25.08 1.35 15.76

6.97 18.11 = 18.09

Sly side of Cone pave

Guard-rail Xing

Top AC pave

Top of Bank

fence line Navy Training Center

Huffman 10/26/60
Newbern
Morales
Frost

33

CROSS SECTIONS FOR WATER MAIN

REPLACEMENT: VANCOUVER ST. AVE.

FROM NLY LINE OF QUINCE ST TO END
OF 2" EXST. MAIN

Note SKETCH on Page 1 This Book

For Additional Notes see 'X' Secs Pg 3 & 4 This Book

0+60 - Sly Line Quince

E

291.57

0+53 0³-Lt = Gate Valve Cap

291.67
on cover

0+50

291.69

0+30 10²-Rt = Sewer M.H.

292.06

92.04	280.1	87.9
10	10	10
B.M.	I.E.	I.E.
	6" Main	4" Lat.

0+19 { Cor of Quince & Vancouver
Cross 4" Sewer Lat Runs From S.M.H. to N.E.

292.26
on Conc

0+07 Cross on 7' Line Quince

292.38
on "X"

0+00 - NLY Line Quince

292.56
conc

B.M. = N.E. 7' Lt Quince & Vancouver
See Pg 3 This Book

E1 = 292.97

Vancouver St Profile (cont)

34

€

2+85 (on Back Tan Proposed) 11⁹ Lt. Water Meter

86.05
11⁹
Top Meter

286.47
on 2/2

88.48
39²
Top Meter

2+80 \times Pt 45° Rt. 39³ Rt = Water Meter

2+65 13⁵ Lt = Water Meter

85.37
13⁵
Top Meter

285.9

2+50

2+40

285.5

2+37 9° Lt. 18" Corrugated Drain

(CKs & Harry's Notes)
Page 3 84.20
9° IE.

285.49

2+35.25 = End. Conc Pavt

2+04⁵ 11⁷ Lt. Water Meter

86.96
11⁷
Top Meter

286.71

2+00

1+80⁵ 31⁶ Rt = Water Meter

87.65
31⁶
Top Meter

1+64⁵ 12⁴ Lt = Water Meter

88.29
12⁴
Top Meter

288.43

1+50

1+22⁵ 12° Lt = Water Meter

89.72
12
Top Meter

89.89
31⁵ Top Meter

1+08 31⁶ Rt = Water Meter

290.14

1+00

0+85 11⁸ Lt = Water Meter

91.17
11⁸
Top Meter

Vancouver St. Profile (Cont)

35

C.R. Starting Bench

292.97-292.97

4+00

85.0 285.26
6 2 1/2 Hts
Rim Canyon

3+53.5 9⁸ Lt = Q. Sewer M. H.

282.2 86.28
9⁸ 9⁸
IE Rim

3+50

86.0 286.9
12
Rim Canyon

3+46 18^E Rt = Water Meter

86.71
18^E
Top Meter

3+45 22^E Lt = Water Meter

80.0
22^E
Top Meter

3+44 { 19^E Rt = Water Meter
22^E Lt = Water Meter

80.6
22^E
Top Meter

86.78
19
Top Meter

3+42 21^E Lt = Water Meter

80.6
21^E
Top Meter

3+40 22^E Lt = Water Meter

80.4
22^E
Top Meter

3+08.28 (Pt Rt 45° Sec 90° to Fud Tan)

286.6 287.29
17 2 1/2
Top Canyon

2+94.14 Cross 6" Sewer Main

286.0 286.8
13 Grd.
Rim Canyon

2+80 90° to Fud Tan

286.5 286.6
10 Grd.
TOP Fill

36

7/9.0

	0
.35	1
.85	2
.35	3
.85	4
.35	5
.85	6
.35	7
.85	8
.35	9
.85	10
.35	11
.85	12
.35	13
.85	14
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.35	41
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.35	43
.85	44
.35	45
.85	46
.35	47
.85	48
.35	49
.85	50

SW Cor Landis
75u

75.55
9.45
80.00

14.72
61.10
74.72
45.55
120.27

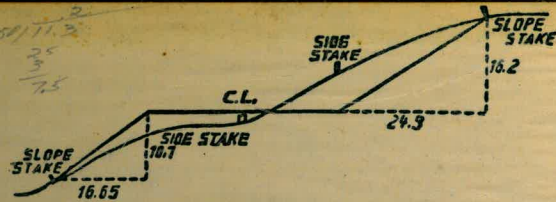
PP

327.10

6.71
6740.27
36
72

6.71
A
2684

523.44
26.89
75.50
6425.98



DISTANCES FROM SIDE STAKES FOR CROSS-SECTIONING.

SLOPE 1 1/4 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	71.25	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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