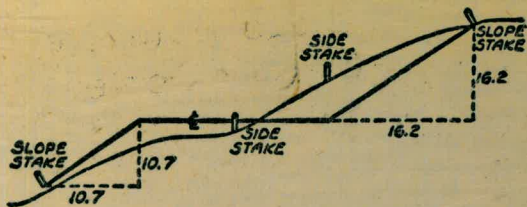


W

847

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



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.

MICROFILMED

JAN 18 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	2.00	2.40	2.80	3.20	3.61	4.04	4.40	4.98	5.38	5.83
100°	.43	.86	1.30	1.74	2.18	2.62	3.06	3.50	3.95	4.40	4.88	5.37	5.85	6.34
110°	.51	1.03	1.56	2.08	2.61	3.14	3.67	4.21	4.76	5.31	5.86	6.43	7.01	7.60
120°	.62	1.25	1.93	2.52	3.16	3.81	4.45	5.11	5.77	6.44	7.12	7.80	8.50	9.22

FOR EXTERNALS ADD

Central Angle	DEGREE OF CURVE													
	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°
10°	.001	.003	.004	.006	.007	.008	.009	.011	.012	.014	.015	.017	.018	.020
15°	.003	.007	.010	.014	.018	.023	.027	.032	.037	.043	.049	.053	.057	.061
20°	.006	.011	.017	.022	.029	.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	.877	.971	1.07	1.18	1.29
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	1.78	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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(over)

alice

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alice

CABRILLO & OLIVET

(2) STKS & GRDS
FOR
WATER METERS

Oct. 20, 1952

Beatty
Powell
Alexander
Wilson.

BM	3.83	193.62	189.79		
5+00	Sta	0.45	193.17	190.6	C26
4+38	SEly	4.77	188.85	186.6	C23
P 3+67	"	0.77	181.80	178.7	C23
3+57	"	2.0	179.8	177.6	C22
2+94	"	9.9	171.9	170.96	C09
P	0.00	168.61	1319	168.61	
2+39		2.9	165.7	165.13	C06
1+88		8.7	159.9	159.7	C02
P	0.02	155.60	13.01	155.60	
1+00		5.0	150.6	150.4	C02
0+99		5.6	150.0	150.3	F03
0+00 = EC Corb	Olivet Cabrillo				
P rec	0.60	143.07	13.13	142.47	
4+51 E		6.6	136.5	136.2	C03
4+26 E		7.2	135.9	135.5	C04
4+03 (5) FA		5.3	137.77	135.0	C28 C63
3+87		7.67	135.4	134.9	C05
4+26 W		8.4	134.7	135.0	F03
3+90 W		8.6	134.5	134.4	C01

357

106

214.2

357.0

578.42

39.8

77.64

4+38 186.6

3+67 178.7

3+44 176.3

2+94 170.96

2+39 165.13

1+88 159.73

1+00 150.2

CABRILLO & OLIVET
(Cont'd.)

10-20-52

2.

	143.07				
3+41W		7.8	135.3	134.8	C0 ⁵
3+16E		6.5	136.6	135.7	C0 ⁹
2+85W		8.0	135.1	135.7	F0 ⁶
2+67E		6.2	136.9	136.6	C0 ³
2+16W		6.9	136.2	136.6	F0 ⁴
2+24E		4.7	138.4	138.1	C0 ³
2+07W		4.8	138.3	138.5	F0 ²
1+67E		0.6	142.5	142.2	C0 ³
Ⓟ	12.64	154.44	1.27	141.80	
1+51W		11.2	143.2	143.2	C0 ⁰
1+08W		6.4	141.0	147.9	C0 ¹
0+91		3.8	150.6	150.1	C0 ⁵
0+60 = N. Prop line Pearl St.					
Ⓟ	7.36	161.16	0.64	153.80	
0+14		1.9	159.3	155.5	C3 ⁸
		5.26	155.90 = 15600		End curb E side Cabrillo & Pearl

ALLEY BLK 136
 Nor of QUINCE ST
 East of CENTRAL AVE
 & PROFILE PROPOSED WATER

OCT. 21, 1952
 BEATTY
 POWELL
 ALEXANDER.

3.

BM.	11.07	312.89		301.82
P	0.61	300.47	13.03	299.86
P	1.29	288.98	12.78	287.69
SET TBM.			9.12	279.86
0-11			11.1	277.8
0+00			7.8	281.1
P	11.92	300.33	0.57	288.41
+50			8.1	292.2
+85			2.8	297.5
1+00			1.9	298.4
+50			0.7	299.6
2+00			2.3	298.0
+50			6.0	294.3
3+00			11.1	289.2
P	0.35	287.40	13.28	287.05
+50			4.4	283.0
+75			7.2	280.2
+88			10.0	277.4
4+00			11.1	276.3
+09			11.6	275.8

BR NW Cor Marlborough & Thorn

Top FH

Private Road
 on S. side

ALLEY BLK 136
(Cont'd)

10-21-52

4

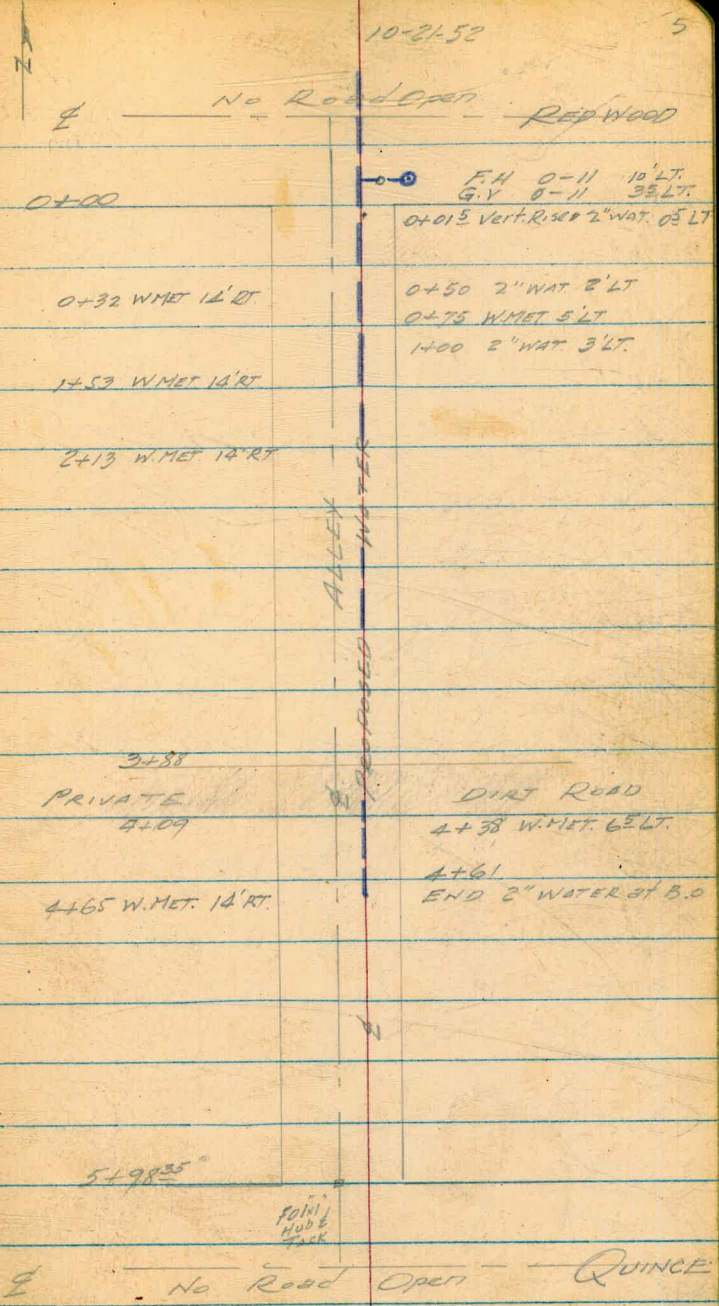
	287.40			
4+10		11.1	276.3	
+13		11.2	276.2	
+25		13.3	274.1	
+38		14.6	272.8	
P	0.08	294.19	13.29	274.11
+42		0.7	273.4	
+50		1.8	272.3	✓
on B.O. END 2 WAT		5.15	269.0	
P	0.61	261.48	13.32	260.87
P	1.02	259.56	11.94	249.54
5+00		3.5	247.0	
+09		7.3	243.2	
+16		10.2	240.3	
+25		9.3	241.2	
+50		9.7	240.8	
P	5.51	245.41	10.66	239.90
5+98 ³⁵		9.2	236.2	
6+12		10.5	234.9	
SET TBM		9.03	236.38	
D	12.47	257.86	0.02	245.39

1x1 & Copper Tr & Alley

ALLEY BLK 136
(Cont'd).

	257.86		
P	11.80	267.66	2.00 255.86
P	12.33	279.90	0.09 267.57
P	12.11	291.94	0.07 279.83
P	13.19	305.01	0.12 291.82
P	9.26	314.34	0.13 304.88

12.55 301.79 = 301.82
 BR NW Cor
 HOLL BORO' WPA
 & There



ALLEY BLK 7.
 NOR OF MYRTLE, EAST OF HIGHLAND
 (4) STKS & GRDS FOR 6" WATER

OCT. 22, 1952
 BEATTY
 POWELL
 ALEXANDER

6

BM.							
1329	335.88		322.59	CITY PARK	B.P. NW COR HIGHLAND & THORN		
9.37	345.15	0.10	335.78				
0+80 (=Nor. Pl. Myrtle St)		6.00	339.2	335.0	C42		
1+00		4.6	340.6	335.7	C42		
+37		3.95	341.2	337.0	C42		
+50		3.85	341.3	337.2	C41		
2+00		2.9	342.3	337.9	C44		
+50		2.23	342.9	338.7	C42		
3+00		1.27	343.9	339.4	C45		
7.16	351.77	0.54	344.61				
+50		7.06	344.7	340.2	C45		
+75		7.20	344.5	340.6	C39		
4+00		6.0	345.8	340.9	C49		
+50		5.85	345.9	341.4	C44		
5+00		5.35	346.4	342.0	C44		
+50		5.14	346.6	342.5	C41		
6+00		4.7	347.1	343.1	C40		
+50		3.85	347.9	343.7	C42		
+75		3.76	348.0	344.0	C40		
7+07		4.22	347.55	344.0	C36		
P	0.22	345.38	6.61	345.16			
7.47	338.36	9.49	335.89				
CK B.M.		6.31	332.05	-332.30	? B.P. NW COR Fairmount & Myrtle	See next pg.	

338.36
 - 2.57
 335.79
 + .11
 335.90
 12.31
 322.59

ALLEY BLK. 7

Cont'd

WATER METERS

10-22-52
11-7-52

7.

		338.26			
RP					
CK DM	0.11	335.90	2.57	335.79	
RP	9.31	349.91	13.31	322.59 = 322.59	RP HIGHLAND # HORN NWDP
0481 W				340.60	338.60
0482 W			10.65	339.26	338.70
1430 E				340.4	
1431 E			8.8	341.1	340.4
1434 E			8.5	341.4	340.5
1440 W			9.2	340.7	340.5
1482 W			8.3	341.6	341.3
2406 E			7.8	342.1	341.8
2426 W			7.7	342.2	342.1
2453 E			6.6	343.3	342.5
3431 E			5.5	344.4	344.9
3440 W			5.7	344.2	343.9
3443 E			5.3	344.6	344.1
3480 W			5.0	344.9	344.4
4415 E			3.9	346.0	345.0
4445 W			4.2	345.7	345.2
4470 E			3.4	346.5	345.5
5400 W			3.6	346.3	345.7
5427 E			3.1	346.8	346.1
5427 W			3.5	346.4	346.0
5459 E			3.0	346.9	346.4
5480 W			2.6	347.3	346.9
5485 E			2.9	347.0	346.7
6406 W			2.4	347.5	347.1
6455 W			1.8	348.1	347.3
CK RP			2.33	347.58	= 347.55

OCT. 23 1952

8

SUNCREST DR.

30TH To KANSAS
② STKS & GRDS FOR 8" WATER

BM.	3.58	392.62 392.96	389.04 389.38	POP. SE 30 TH & ADAMS	
	Top GV. SEN	6.15 9.6			17 TH 8" WAT. 383.8
0+387	= 5' West GV	5.3	387.3 387.7	383.1	045 043
0+80	- W. Prop Line 30 TH ST. A = 19° 50' RT.	5.2	387.4 387.8	383.2	045 042
1+00		5.0	387.6 388.0	383.3	047 043
+50		5.0	387.6 388.0	383.5	045 041
2+00		4.9	387.7 388.1	383.6	045 041
+50		4.7	387.9 388.3	383.7	046 042
3+00		4.6	388.0 388.4	383.9	045 041
+50		4.5	388.1 388.5	384.0	045 041
4+00		4.3	388.3 388.7	384.2	045 041
+03	8" GV	4.2	388.4 388.8	384.2	046 045 ?
+10					
+08	END WORK	4.1	388.5 388.9	384.3	046 045
+15					
P	5.15	393.68 394.02	409 388.53 388.87		
CK BM (on ditch on SW Cor)	6.70		386.98 387.32 = 387.96	BP SW Cor Adams & Kansas (Gone)	

VISTA PLACE

OCT 28, 1952

9.

④ STKS & GRDS for 6" WATER
COPLEY N.Y.

1	BM	2.25	396.32	392.07		Idaho & Copley S. Side Jr Top. REF
	0+30 TEE					
	0+35	4.10	392.2	388.3		C39
6	0+80	Hor PL Copley	5.3	391.0	387.7	C33
6	1+00		5.5	390.8	387.4	C33 ✓
1	+50		5.6	390.7	387.2	C35
	2+00		5.9	390.4	386.9	C35
2	+50		6.2	390.1	386.7	C34
	3+00		6.4	389.9	386.4	C35
3	+40		6.5	389.8	386.2	C36
	+81 ¹ / ₂ FH TEE		6.6	389.7	386.0	C32
4	4+00		6.7	389.6	385.9	C32
	+50		7.0	389.3	385.6	C32
	5+00		7.2	389.1	385.4	C37
7	+50		7.4	388.9	385.2	C37
8	6+00		7.6	388.7	385.0	C32
	+50		7.8	388.5	384.8	C32
	7+00		8.0	388.3	384.7	C36
	+32 ¹ / ₂ FACE of Curb		8.2	388.1	384.7	C34
	+34 END of WORK		7.7	388.6	384.7	C39
	OK BM	2.25				

UVADA PLACE
 @ STKS & GRDS FOR 6" WATER
 COPLEY NLY

10-28-52

10

BM	3.60	395.67	392.07	Idaho & Copley S. side SE Top Riv
0+30				
0+35.		3.4	392.3	388.6 c32
0+70.	Near PL Copley	4.17	391.5	388.4 c32
1+00.		4.17	391.5	388.2 c33
+50.		2.45	391.2	387.8 c34
2+00.		4.8	390.9	387.5 c34
+50.		5.0	390.7	387.1 c36
2+57 BK				
2+65 AN (90° Bend = 2+61)		5.0	390.7	387.0 c37
3+00		4.54	391.1	387.4 c37
+50		4.36	391.3	388.0 c33
3+73	END of Work	4.2	391.5	388.2 c33
CK BM.		4.32	391.33 = 391.39	Near of Copley SE Top of Curb. S line Uvada to E

ADAMS AVE
 EL CERRITO Eastern
 (2) STKS & GRDS for Lowering
 EXISTING 6" WATER

Oct. 30, 1952
 BEATTY
 POWELL
 ALEXANDER

(Bottom pipe 35 below So Curb grade)
 AS PER GRADE 9880-L

BM	2.51	458.97	456.46		PP SE Cor Adams & El Cerrito
0400 - & El Cerrito	3.2				1253 458.99 456.26
0424 Existing 6" G.V.	3.2	455.8	453.2	026	32 455.8 026
+50	2.6	456.4	452.5	032	42 452.7 023
1+00	3.3	455.7	451.4	043	56 452.4 020
1+15	3.8	455.2	450.2	050	61 452.9 023
1+60 6" TEE (To No. 2)	5.8	453.2	446.0	072	95 449.5 035
2+00	8.7	450.3	441.2	094	116 447.81 1234 446.65
+20	11.9	447.1	438.0	094	39 449.9 027
+40	16.7	442.3	435.0	073	69 440.9 029
+62.7 (End of Lowering)	20.9	438.1	433.8	043	95 438.3 033
0435 { End 6" C.I. NEW 2" B.O. (Nor of TEE 1+60)	9.1	449.9	446.5	034	102 437.4 035
CK BM	2.51	456.46			116 447.81 116 446.65
CK 3.4		458.75			88 450.0 040
					95 449.3 030
					229
					069 445.21 1123 447.54
0466 = 10' E of N. PL	4.2	451.6	451.6	002	
2+06 = 35' W of E. PL	4.4	443.8	443.4	004	
2+70 = 30' E of W. PL		438.2	437.0	012	

Regraded
 12-11-52

BETA ST.
36TH To 38TH
④ STKS & GRDS SET FOR
8" WATER

(NOTE: LEVEL NOTES, FROM BOTTOM OF PIPE UP)

BM		3.10	11.05	= 11.06	99 SE COR 38 TH & ALPHA	
4 TH SETTING	5.90 14.15	4.00	08.35		pin in post pole SE COR 36 TH & BETA	
0+27	TEE (16" x 8")	4.80	07.45			
0+35	Begin Work	5.9	06.4	01.0	C54	06.7 - GROUND LINE Elev. E PIPE 61 Rod
+60	F.H. TEE	5.9	06.4	01.0	C54	06.1
	⑤ = 31.5' E ST.	Replaced 6.3	08.8	05.0	C10 55°	6.2
1+00		6.1	06.2	01.2	C50	06.0
+10						6.5
+50		6.1	06.2	01.3	C49	06.0
+90		6.6	05.7	01.5	C42	05.5
2+00						6.8
+50		6.9	05.4	01.7	C37	05.8
3+00		6.6	05.7	01.9	C38	05.9
+50		6.2	06.1	02.0	C41	06.1
4+00		6.3	06.0	02.2	C38	06.4
+50		5.1	07.2	02.3	C49	06.2
5+00		5.6	06.7	02.5	C42	06.3
+50		5.4	06.9	02.6	C42	6.0
6+00		5.1	07.2	02.8	C44	07.0
+50		5.0	07.3	03.0	C43	5.3
+70		4.8	07.5	03.1	C44	07.2
7+05	8" GV	5.6	06.7	03.2	C35	5.1
7+15	8" TEE	4.6	07.7	03.7	C45	07.1

12.25

OCT. 30, 1952
BEATTY
POWELL
ALEXANDER

12

BETA ST
(cont'd)

10-30-52

13.

7+30			5.2	07.1	03.3	C38	06.7	
+50			4.9	07.4	03.4	C40	06.9	
8+00			5.0	07.3	03.5 03.0	C38 C42	07.1	
+50			4.65	07.2 07.6	03.6 02.8	C46 C46	07.0	4" Sew Lat Top at 2 Bot 03.9
9+00			4.50	07.8	03.7 03.0	C48 C48	07.3	4" Sew Lat Top 04.3 Bot 03.9
+50			4.25	08.0	03.8 03.2	C42 C42	07.3	2" Sew Lat 04.6 Bot 04.2
10+00	4.00	12.25	6.19	08.25	03.9 03.3	C43 C52	07.7	
+50			6.3	08.1	04.0 03.4	C47 C47	07.5	
11+00			6.2	08.2	04.1 03.5	C41 C41	07.8	
+50			5.8	08.6	04.2 03.6	C44 C44	08.0	
12+00			5.7	08.7	04.3 03.7	C44 C44	08.2	
+50			5.3	09.1	04.4 03.8	C47 C47	08.7	
13+00			5.5	08.9	04.5 03.9	C42 C42	09.3	
+10	FH TEE ⊙ = 20" EST		Replaced 5.4	08.9 09.0	04.0 04.6	C49 C49	09.2	
+30	W. Prop line 38.74		6.0	10.2	09.2	C47 C47	5.2	
+65	8" GV		4.6	09.8	04.7 02.0	C49 C49		
13+75	8" x 6" TEE End of Work		4.6	09.8	04.7			
BM	3.38	14.41		11.06				

Replaced 11-7-52

REV. GRADE
DUE TO
SEW. LAT. 5
Being about
1' lower than
shown on plans
11-9-52

NOTE: -
DITCH EXCAVATED
STA 0135 to 8+25
WHEN GRADE REVISED

13+33 to 13+36 4" Conc Gutter King
13+36 to 13+41 4" A.C.
13+41 to 13+835 2 1/2" A.C.

DD SE Cor Alpha # 38.74

Beta St

Cont'd

② STKS & GRDS For WAT. METS.

BK MET 205 LT (30) & 205 RT

Face cut - 18' 50ft. Nor from d. St

11/10/52

14.

BM	3.48	14.54		11.06				
13+30 = W prop line		38 TH					DP	38 TH & ALPHA
12+57 N			5.6	08.9	08.5			C04
12+06 S			5.65	08.9	08.2			C07
11+87 N			5.95	08.6	08.1			C05
11+56 S			5.75	08.8	08.0			C08
11+44 N	4.58	13.02	6.10	08.44	08.0			C04
11+07 S			4.6	08.4	08.4			C04
10+81 N			4.8	08.2	07.8			C05
10+55 S			4.8	08.2	07.9			C03
10+21 N			4.9	08.1	07.7			C04
10+02 S			4.8	08.2	07.7			C05
9+74 N			4.9	08.1	07.6			C05
9+48 S0			5.1	07.9	07.6			C03
9+11 N			5.0	08.0	07.5			C05
8+98 S			5.3	07.7	07.5			C02
8+48 S0.			5.5	07.5	07.4			C01
5+18 N			6.7	^{06.8} 06.3	06.2			C01 C06
4+64 S			5.9	07.5	06.1			Not dug
4+21 Nor	2 METS			07.1	06.1			C18 C14
3+98 S	No MET			^{06.5} 06.5	06.1			C06
	204	11.03	6.03	06.99	05.9			C1 C05

moved in 55'

ditch put 2'
moved in 65'

OCT. 31, 1952

16.

41ST & BETA ST.
 FROM GAMMA TO ALPHA
 (4) STKS & GRDS FOR 6" WATER

B.M.	10.73	71.26	4.01	60.53	CITY DATUM		
	5.77	73.02		67.25			7.80 E
0+00	Edge of New A.A.C.	0.0	73.0	68.5	C45		4.70 W
0+85	Begin Work ?	0.3	72.7	68.5	C42		5.0
1+00		1.0	72.0	67.7	C43 ✓		
+50		2.5	70.5	65.7	C48 ✓		6.72 1.5
2+00		3.5	69.5	63.8	C57 ✓		6.87 6.5
+50		4.3	68.7	61.8	C69 ✓		
+75		5.8	67.2	60.8	C64 ✓	5.5	4.80 7.80 12.60
3+00		8.1	64.9	59.2	C43	8.0	EL 60.4 Inv of M.H.
+50		14.0	59.0	55.9	C28	13.8	
		12.3	58.7		C31 replaced		
4+00.9	1-6" TEE						
	90° Bend	E 12.7	60.8	55.3	C55 E		
4+05 ²⁰ BK.		N 12.4	60.6	55.3	C53 N		
4+40 ⁸² B.C.		12.47	60.35	52.3	C40		
		2.4	58.3				
+50		2.8	57.9	54.0	C39		
+75	Δ 67° 15' 30" RT	4.3	56.4	52.6	C38		5.33 10.07
	R 96.04						E 50.65 Inv of M.H.
5+00	L 112.74	5.6	55.1	51.2	C39		
+25		6.9	53.8	49.8	C40		
+50				48.4			
5+53 ⁶⁶ EC.		8.6	52.1	48.2	C39		
5+77 ⁹¹ B.C.		9.8	50.9	46.9	C40	10.4	

(See 6" Sewer Line)
 Top 6" Sewer
 EL 52.47

41ST & BETA ST
Cont'd

10/21/52

17

Station	Notes	Dist	Angle	Lat	Long	Curve	Offset	Remarks
		60.68						
6+00		10.5	50.2		45.8	C24		
IP	0.80	$\Delta 24^{\circ}25'30''$ LT	129.4	27.74			11.2	7+10 ⁰⁶
+50		R-310.00			43.4	C23	12.9	5 77.91
		L=232.15						2.52.15
7+00		2.9	25.6		41.2	C24	3.7	
+10 ⁰⁶	{ EC = 20' from	3.6	22.9		40.6	C23	4.6	
	{ EIV P.L.							
+50	{ x PT. $6^{\circ}13'30''$ RT.	6.7	41.8		38.6	C32	6.7	
7+56 ²⁸	{ x PT. $3^{\circ}00''$ RT.	7.4	41.1		38.3	C28 C32	7.1	
	{ BC = 15' from							
	{ EIV P.L.							
7+75		8.2	40.3		37.6	C27 C30	8.1	
8+00	{ A $46^{\circ}45'20''$ RT							
	{ R 165.00	9.3	39.2		36.6	C26 C30	9.2	
	{ L 134.72							
+25		10.0	38.5		35.6	C29 C30	9.9	
+50		10.6	37.9		34.7	C32	10.5	
+75		11.5	37.0		33.7	C33	11.2	
8+91	End work	11.1	37.4		33.1	C23	11.9	
	{ 5.5N from							
	{ F.H. Tee							
IP	12.18	60.54	0.18	48.36				57.13
CK BM.		0.01	60.53	= 60.53				
2+61 W.		68.7	65.0			C97		8.2
3+20 W.		65.7	63.0			C27		1.2
5+57.2 W		52.4	59.5			F11		7.2
6+86 E		45.9	47.2			F13		5.2
8+19 W		39.7	41.0			F13		1.9

CHESTERTON STANDPIPE
 STKS & GRDS FOR RELOCATION.
 PORTIONS OF 10" C.I. & 18" C.I.

Nov. 6 1952
 BEATTY
 POWELL
 ALEXANDER

18

B.M.	0.11	451.93	451.82					
0+00 =	16" TEE			Grade		7.5 3	9.7 3	9.9 3
0+05	(10"E)	6.18	445.75	442.33	C342	4.7 3	4.7 3	4.5 3
0+30	(10"E)	10.06	441.87	440.75	C112	9.5 3	10.0 3	10.4 3
0+50	(10"E) 1st TO OK TAN	11.30	440.63	440.75	F012			
0+50	(10"E) 1st TO END TAN	10.90	441.03	440.75	C028	9.0 3	9.6 3	10.1 3
0+68 ³⁸	(10"E)	7.22	444.71	442.55	C216	6.7 3	6.3 3	6.3 3
0+68 ³⁸	Top Existing 10" C.I.	8.47	443.46					
0+68 ³⁸	Bot " " " "		442.55					
						} 45° BEND		
						} 45° BEND		
0+00 =	16" CROSS					3.4 3	6.1 3	6.5 3
0+025						7.5 3	3.4 3	4.2 3
0+05	(5"W)	3.53	448.40	442.45	C595	4.2 3	4.1 3	4.1 3
0+145	(54" W Split X)	4.85	447.08	441.73	C535	5.0 3	5.3 3	5.1 3
0+258	(54" W Split X)	6.12	445.81	440.87	C494	6.3 3	6.6 3	7.1 3
0+5330	(54" W Split X)	7.50	441.43	440.57	C356	8.1 3	8.9 3	9.4 3
0+8301	(5"W)	7.21	444.72	438.48	C624		7.3 3	
0+8301	Top Existing 18" C.I.	11.78	440.15					
0+8301	Bot " " " "		438.48					

So Edge
 0+035 = EXCAVATED
 DITCH.

{ 443.25 & F100
 442.45 Bot Elev.

ALLEY BLK 9A
 (4) STKS & GRDS FOR 6" WATER
 DWIGHT TO MYRTLE - W of 40TH

Nov. 10, 1952
 Best,
 Powell
 Alexander

20

BM	0.62	318.80		318.18		
TP	11.12	329.94	0.00	318.80		NN BP. 20TH & Myrtle
0+05	Begin Work		1.8	328.1	320.6	C75
0+50			1.9	328.0	322.1	C61
+75			2.2	327.5	323.0	C45
1+00			2.6	327.3	323.0	C43
+50			3.1	326.8	322.1	C47
2+00			4.2	325.7	321.3	C44
+50			5.4	324.5	320.2	C41
3+00			6.1	323.8	319.6	C42
+50			6.6	323.3	318.7	C46
+63			7.1	322.8	318.6	C42
4+00			8.4	321.5	317.6	C39
+50			9.7	320.2	316.3	C39
5+00			10.8	319.1	315.0	C41
TP	0.02	318.82	11.12	318.80		
+50			1.2	317.6	312.7	C49
6+00			4.0	314.8	310.4	C44
+25			5.3	313.5	309.2	C43
+67.5						
+75	F.H. TEE		5.9	312.9	309.1	C48 & F.H. 9' LT (5) 313.1
+78						5.7
6+85	G.V. End work		5.6	313.2	309.0	C44
CK BM			0.62	318.18 = 318.18		

Curb
 GRD
 312.7
 Cot C39

ALLEY BLK 9A
Cont'd

(2) JKRS & GRDS FOR
WATER METERS

CR TP	1.02	327.34 = 327.30		
0+21E	2.6	329.0	327.0	C20
0+53W	3.9	327.5	327.0	C05
0+70E	3.5	327.9	327.0	C09
1+42E	4.3	327.1	325.8	C13
1+66E	4.5	326.9	325.6	C10
2+21E	6.5	324.9	324.6	C02
2+45W	6.9	324.5	324.3	C03
2+75E	1.43	324.37	323.8	C06
3+09W	2.3	323.5	323.2	C02
3+24E	2.2	323.6	322.9	C07
3+46E	2.4	323.4	322.6	C08
3+75W	3.4	322.4	321.9	C03
4+21E	4.3	321.5	320.6	C02
4+45W	5.3	320.5	320.0	C05
4+46W			320.0	
4+71E	6.1	319.7	319.4	C03
5+23W	8.2	317.6	318.0	F01
5+32E	7.7	318.1	317.8	C03
5+63E	8.6	317.2	316.2	C10
5+65E	8.5	317.3	316.1	C12
5+96W	10.3	315.5	313.8	C12
5+98W	10.75	315.05	313.7	C14
BM	7.62	325.80	318.18	

331.38
4.04

327.34

UNIVERSITY HEIGHTS RES.
DRAIN EXTENSION & LOWERING
OF MISSION VALLEY P.L.

⑤ STKS & GRDS. SET.

Rain 10 pm.

Nov. 12, 1952

22

Beatty
Powell
Alexander

			⑤ Elev	INV. GRD
BM	1.28	377.36	376.08	
IP	0.07	364.40	12.07	364.33
IP	0.16	351.95	13.21	351.19
IP	2.53	340.93	12.95	338.40
IP	1.39	328.97	13.35	327.58
Set IP		6.80		322.17
OK BM		7.30		321.67
10+76	Top Curb	5.75	323.22	319.52
10+74.5	Inside Catch basin	10.45	318.52	
10+68.5	Edge Sidewalk	5.65	323.32	
10+63.5	" " "	5.70	323.27	
10+59	(2-18 bends) West 2 Drains Nor	5.75 5.70	323.22 323.27	320.00
10+50		5.30	323.67	320.4
10+10.5	Edge of AC			
10+10		3.32	325.65	322.5
9+50		1.20	327.77	324.6
9+91.2	Edge Sidewalk	3.16		
9+88.7	" "			
IP		7.72	336.64	0.05 328.92

Chis. H. near Camp Post, & island Oranges & El Cajon

on belt

on SW Cor Texas & El Cajon

⑥ 0370

318.52
10.45

323.32
5.65

323.27
5.70

W ⑤ 0322

N ⑤ 0327

323.22
5.55

② 0327

323.72
5.25

325.27
3.70

⑤ 0315

325.6
3.1

⑤ 0317

327.6
1.4

325.81
3.16

325.90
3.07

10.14

UNIV. HEIGHTS RES

12" DRAIN EXT.

(Contd)

336.64

9+09 Edge A.C. part 6.95 329.69

9+00 6.80 329.84 326.7

+50 4.70 331.94 328.8

8+00 2.60 334.04 ~~330.6~~

7+75 1.52 335.12 ~~332.0~~

+55+ } End of A.C
Begin of Conc SW

+50 0.82 335.82 ~~332.2~~ 331.2

+455 Top curb

+455 Gutter

11 10.61 347.23 0.02 336.62

336.68 AR

7+20 10.55 326.09

7+00 10.45 336.78 ~~332.2~~ 332.2

6+93.6 Gutter

6+93.6 } Top curb

6+89 Edge SW

6+84 Edge SW

6+50 6.68 340.55 337.5

6+05

6+04.5

6+00 20 345.23 342.00

13.27 359.04 1.26 345.77

8.86 338.27

11-17-52

23

329.69
6.95

329.99
6.65

331.99
4.65

334.29
2.35

335.99
0.25

336.12 335.84
0.80

335.81
0.63

335.62 335.32
1.32

GRADE CHANGE

6+50 - 6+12

due to

Constriction

with 6" WAT.

336.9
10.2

336.95
10.25

6+90.7 337.05 337.65

6" C.I. WAT

Pott. EL 333.41

337.65
9.55

337.87
9.36

6+79 8.7

340.55
6.65

2.4 1.7

340.8
2.4

340.0
1.2

345.9
1.3

Begin Flagstone
6+45

5) C314

5) C314

5) C314

5) C314

5) C314

5) C378

5) C305

5) C323

UNIV. HEIGHTS RES.
12" DRAIN EXT.
(Cont'd)

11-17-52

24

359.02

5490

12.9
3 346.2
12.8 12.0

54895

11.9
3 347.0
12.0 12.0

5479 End Conc SW

347.99
11.65

5476²⁵ Begin " "

347.29
11.75

5463

348.4
10.6 10.0

5462⁵

9.7
3 349.4
9.5

5460

9.6
3 349.6
9.4 8.4 8.4

5450

9.15 349.89 346.50 (5) 63³⁹

9.1
3 349.7
8.7

5449 End Conc rubble wall 1' RT

350.3
8.7 8.5 8.3

5447

351.8
7.2

5430

54295 Cobble stone wall

7.0
3 352.4
6.6 5.9

5427 Top Conc curb

6.99
3 352.59
6.45 5.95

5427 End A.C. post

7.03
3 352.34
6.70 6.20

UNIV. HEIGHTS RES.
12" DRAIN EXT.
(Cont'd.)

11-17-52

25

5+00 359.02 438 354.66 350.86

(5) C380

355.24
420 3.80 3.25
3 3

4+82 End RED CONC SW
Begin A.C. part

356.94
256 2.10 1.60
3 3

4+75

357.50
195 1.54 1.10
3 3

4+75 } Top Red Conc. Curb
4+74.5 }

358.09
170 0.95 0.26
3 3

12.39 370.97 0.46 358.58

4+50

11.67 359.30 355.72

(5) C408

359.87
115 11.10 11.0
3 3

4+49

359.97
115 11.0 10.8
3 3

4+49 End conc walk

360.40
112 10.57 9.9
3 3

4+39.2 Begin Conc Walk

360.82
10.5 10.15 9.8
3 3

4+30

361.57
9.6 9.4 9.3
3 3

4+30 End A.C. part

362.12
9.35 8.85 8.35
3 3

4+25

on A.C. part 9.28 361.69

359.40 (5) C429

362.52
8.98 8.45 7.87
3 3

UNIV HEIGHTS RES.
12" DRAIN EXT.
(Cont'd.)

11-17-52

26

4+00	370.97	6.95	364.02	357.48	⑤ C 654	6.85 3	364.42 6.55	6.15 3
3+80	on A.C. part					5.10 3	365.92 5.25	5.00 3
④	7.39	373.32	5.04	365.93				
3+76 ⁴⁶ DR 3+75 ⁵⁰ AH	} *PT 22 1/2 RT	7.28	366.04	357.58	⑤ C 846	7.20 3	366.16 7.16	7.10 3
3+72 ³		End Conc SW					366.07 7.25	
3+66 ³	Begin Conc SW						365.92 7.40	
3+64 ³	End Conc SW						365.77 7.35	
3+62 ⁶	Top Conc Arch						365.89 7.43	
3+62 ⁵	Gutter						365.39 7.23	
3+60	on A.C. part *PT 22 1/2 LT	7.82	365.50	357.62	⑤ C 788		365.52 7.40	
3+50	on A.C. part	7.45	365.87	357.66	⑤ C 821		365.97 7.25	

Note: -
See sketch; 3+72
to 0+0313, as stored,
on pg. 39.

UNIV. HEIGHTS RES.
12" DRAIN EXT
(Cont'd.)

11-18-52

27

34232	Gutter	373.32						366.64		
								668.		
3423	Tap Curb							367.32		
								6.00		
3400	on Conc SW	5.81	367.51	357.89	(5) C 968	5.36 6	5.72 18	367.57 5.75	5.78 32	
2465						4.75 6	4.90 18	368.40 4.92	4.98 32	
2451	End Conc SW (18 LT)									
2450		4.52	368.80	358.01	(5) C 1029			368.77		
2449	Begin Conc SW (18 LT)							4.61 32	4.52 18	4.38 6
24274	End Conc SW (18 LT)							369.27		
								4.05		
24224	Begin Conc SW (18 LT)							369.38		
								3.87 6	3.92	
2401	End Conc SW (18 LT)							369.84		
								2.80 6	3.41 18	3.44
2400		3.45	369.87	358.18	(5) C 1169	2.76 6	3.27 18	369.94 3.40	3.45 32	

UNIV. HEIGHTS RES.
12" DRAIN EXT.
(Cont'd)

11-18-5

28

373.32

1498 Begin Conc SW (18' LT)

2.72 3.32 369.97
6 1.8 3.35 2.29
32

1492 End Conc SW (18' LT)

2.67 3.16 370.14
6 1.5 3.18 3.20
32

1488 Begin Conc SW (18' LT)

2.58 3.10 370.20
6 1.5 3.12 3.15
32

1465^E End Conc SW (18' LT)

2.50
18

1462^E End Conc SW (6' LT)

2.40
6

1457^o Begin Conc SW (6' LT)

2.29
6

1454^E Begin Conc SW (18' LT)

2.23
15

1450 2.25 371.07 358.36

(5) 61281

2.0 2.16 371.12
6 1.8 2.20 2.27
32

1432^E End Conc Flagstone SW

1.57 1.75 371.54
6 1.8 1.78

1428 Begin " " "

1.50 1.65 371.64
6 1.8 1.68

Univ. Heights Res

12" DRAIN EXT

(Cont'd)

11-18-52

29.

1+02	(End AC part)	373.32	
1+01 ^E	(End AC part)		
1+00	(on AC part)	1.02 372.30	358.53
P		6.83 379.86	0.29 373.03
0+50	(on AC part)	6.45 373.41	358.71
0+50			
CK 13M		3.80 376.06	376.08

Note:
see sketch
3+72 to 0+0313
as stated, on
pg 29.

0.8
6

0.17
6

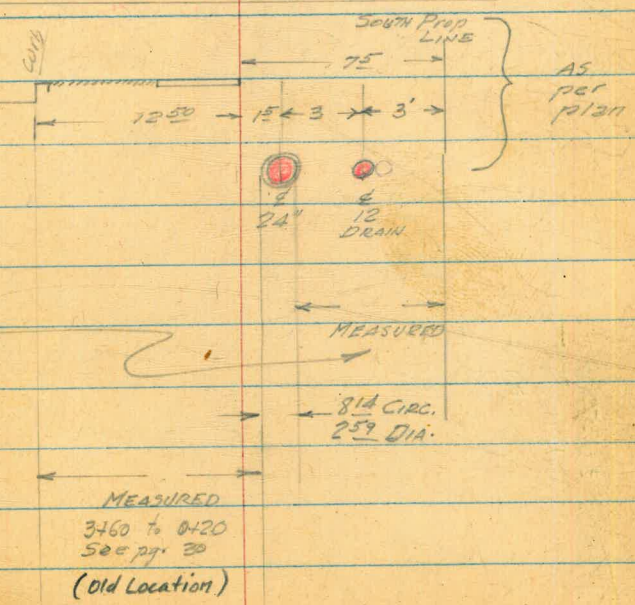
⑤ 1373	0.09	0.95	372.32	1.06
	6	12		32
⑤ 1470			373.58	
	5.68	6.22	6.28	6.36
	6	12		32

Elevation & Location 24" MVPL

Pg 4125	0.65	362.34	361.69
4+00	(Top 24" Conc pipe)	5.55	356.79
5+00	" " " "	9.75	362.59
P	0.00	352.51	9.83 352.51
5+50	(" " " ")	4.74	347.77
6+00	(" " " ")	9.35	343.13
P	2.29	345.15	9.65 342.86
6+50	(" " " ")	6.63	338.52
CK P		9.31	335.84 = 335.81

(Cont'd on Page 30)

DEC 3 1952



MEASURED
3460 to 0+20
See pg. 30
(Old Location)

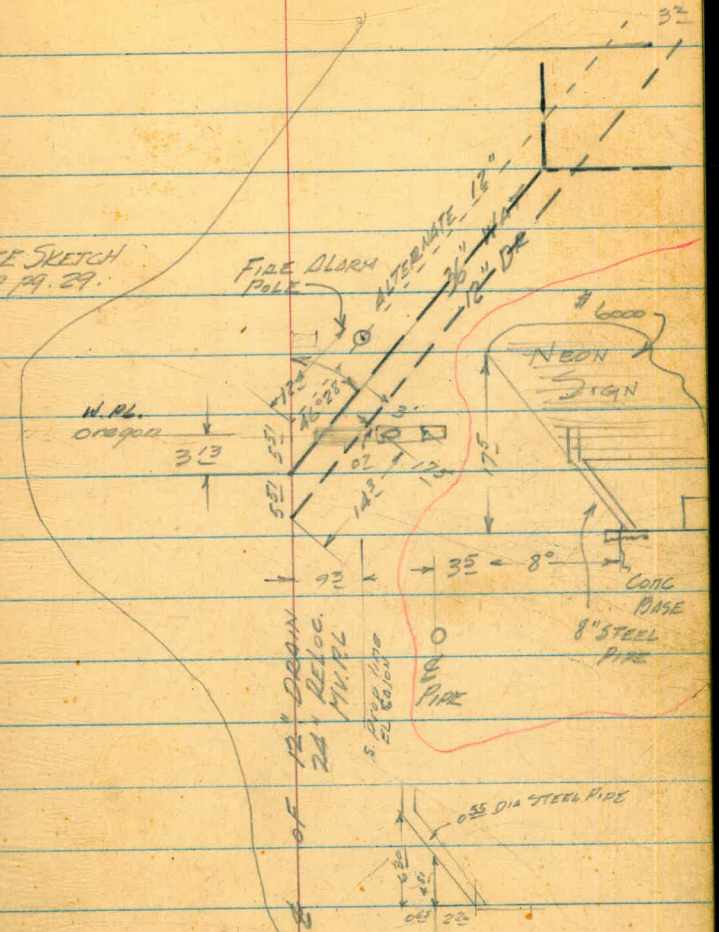
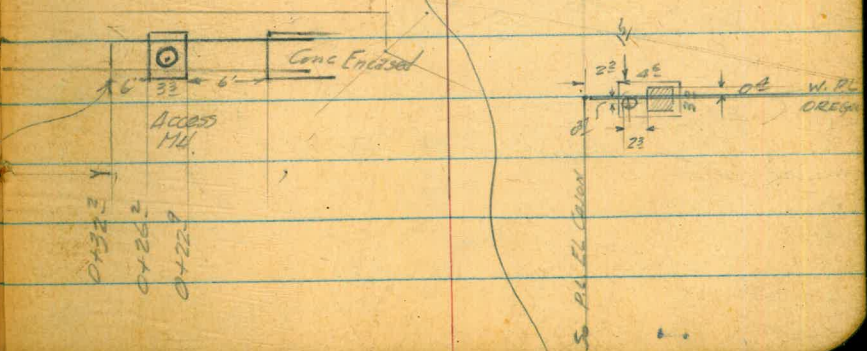
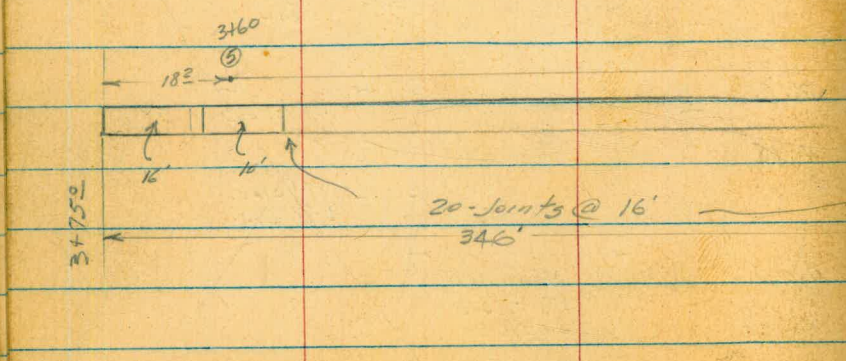
UNIV. HEIGHTS RES.
12" DRAIN EXT.
Cont'd.

12/17/52

30

IP							
	9.01	374.51		365.50	3460	3PT	
3+75 ⁰			RCP.	11.90	362.61	Bot. 24" RCP	360.02
			(Top 24" Conc pipe)				
3+60	↓	"	"	11.40	363.11		360.52
3+31	"	"	"	11.58	362.92		360.33
3+00	"	"	"	9.96	364.55		361.96
2+50	"	"	"	8.31	366.20		363.61
2+00	"	"	"	7.03	367.48		364.89
1+50	"	"	"	5.83	368.68		366.09
1+00	"	"	"	4.84	369.67		367.08
0+50	"	"	"	3.76	370.75		368.16
0+23	"	"	"	3.46	371.05		368.46
SEE IP				0.02	371.07 = 371.55		

SEE SKETCH
ON PG. 29.



46TH ST
 (2) STKS & GRDS FOR
 WATER MET'S

11-18-52

32

BK of MET 33 RT & LT of 46TH ST

BM	11.26	130.29		118.83		NW BR 47 TH & Logan
TP	0.92	119.12	12.11	118.18		
	0.06	106.24	12.74	106.38		
SET P			5.58	100.86		Existing FH T & 46 TH
5+89 W			10.1	96.3	96.8	FO5
4+76 E	3.90	102.14	8.20	98.24	97.2	C10
5+39 E			4.3	97.8	97.1	C07
5+12 W			5.7	96.2	96.6	FO2
4+75 E			4.8	97.3	96.9	C04
4+52 W			6.0	96.1	96.3	FO2
4+33 E			5.0	97.1	96.7	C04
4+07 W			6.5	95.6	96.1	FO5
3+88 E			4.8	97.3	96.4	C02
3+34 W			6.5	95.6	95.8	FO2
3+34 E			5.6	96.5	96.3	C03
2+75 W			6.2	95.9	95.5	C04
2+57 E			5.5	96.6	96.0	C06
2+36 W			6.1	96.0	95.4	C06
2+25 E			5.5	96.6	95.8	C08
1+75 E			5.1	97.0	95.6	C14
1+68 W			5.9	96.2	95.1	C12
1+15 W			5.6	96.5	92.9	C16
1+12 E			4.7	97.4	95.4	C20
0+91 W			5.8	96.3	94.7	C16
0+76 E			5.0	97.1	95.2	C19
0+29 W			6.4	95.7	94.5	C12
0+26 E			6.0	96.1	95.1	C10
			6.0	96.16	94.9	C124 C 174
CE P	7.70	108.56	1.28	100.86 = 100.86		FH T & 46 TH
00+00 =	Sly Prop T ST					
0+10	(5) FH		7.86	100.70	98.4	C23 C 58

46th St. - Wat M.E.S

11-21-52

33.

(Cont'd.)

10856

0+26 E	8.21	100.2	98.6	C18
0+34 W	11.10	97.5	97.3	C02
0+82 E	8.63	99.9	99.1	C08
0+88 W.	10.32	98.3	98.4	F01
1+27 E.	8.73	99.8	99.9	F01
1+76 E.	8.54	100.0	99.5	F05
1+95 W.	8.91	99.65	99.8	F02
2+28 E.	6.99	101.7	01.2	C05
2+67 E.	6.05	102.5	01.6	C09
2+81 W	7.31	101.3	01.1	C02
3+10 W	7.10	101.5	01.5	C01
3+14 E	6.73	101.8	02.7	F04
3+58 E	4.93	103.6	02.8	C08
3+95 W.	5.90	102.7	02.8	F01
4+33 E	4.25	104.3	03.7	C06
4+48 W	4.55	104.0	03.5	C05
4+67 E	3.16	105.2	04.1	C13
4+98 W	2.63	105.9	04.3	C16
5+46 E	2.08	106.5	05.2	C13
5+41 W	1.69	106.9	04.9	C20

TP	1920	118.91	2.85	105.71
----	------	--------	------	--------

			0.02	118.89
--	--	--	------	--------

GAINES ST.

BENICIA To FRESNO

⑥ STRS & GRDS FOR 8" MAIN

BM	1.26	44.75	43.29	5PK in PP. SW Cor Riley & Benicia	
0+35	Begin Work	10.1	34.7	29.6	c51
0+60	F.H. TEE	9.15	35.6	30.1	c55
	F.H. = 24' S & ST				
	⑤ F.H. = 29' S & ST	8.65	36.1	34.3	c18 to # c53 to 19th
1+00		7.8	37.0	30.9	c61
+50		6.95	37.8	31.9	c59
2+00		6.15	38.6	32.9	c57
+50		5.1	39.7	34.0	c57
3+00		4.4	40.4	35.0	c54
+50		3.5	41.3	36.0	c52
4+00		2.9	41.9	37.0	c19
+50		2.43	42.39	38.0	c43
4+935					
5+00	8" GV	2.46	42.3	38.0	c63
4+985					
5+05	8" Cross	2.8	42.0	38.0	c10
5+045					
		2.4	42.4	37.8	c46
RP 5+51	0.82	42.09	3.68	41.27	
5+55	8" TEE				
		W 0.9	41.2	36.4	c18
		S 1.55	20.52		c45
6+00		3.4	38.7	33.8	c19
+50		5.7	36.4	31.2	c52

GAINES ST.

(Cont'd)

11-19-52

35

42.09

7+00			8.0	30.1	28.6	c55	
+21							
-125			10.6	31.5	27.4	c41	
+46							
+50			10.5	31.6	26.8	c48	
+71							
-75			11.1	31.0	26.8	c42	
8+00	8" Cross		9.3	32.8	27.5	c53	
+21							
-25			10.1	32.0	28.0	c40	
+50			8.4	33.7	29.6	c41	
9+00			5.5	36.6	32.4	c42	
+50			1.67	40.42	35.2	c52	
10+00	13.21	55.22	0.08	42.01			
			12.9	42.3	37.9	c44	
+50 ⁵	8" Cross		11.9	43.3	40.2	c31	FH = 24.50 & ST
+75	FH TEE		10.5	44.7	41.3	c34	Grade
11+00			9.5	45.7	42.5	c32	⑤ FH 24.3 45.25 c10 c45
+50			7.0	48.2	44.8	c44	⑥ = 29.50 & ST
12+00			4.1	51.1	47.1	c40	
+21							
-25			3.16	52.1	48.1	c42	
+71							
-75			2.4	52.8	48.8	c40	
13+00	8x6 Cross		2.0	53.2	48.8	c44	
ck TBM			2.20	53.02 = 52.99			ST & NAIL FRESNO & GAINES

GAINES ST.
Contd
WAT. METS.

0400 = Wly PL Benicia

04-88	Nor	+03	1200	37.3	34.5	c28	OK of MET on P.L	25' from E ST.
1+03	So	+02	1400	37.2	35.2	c18		
1+54	Nor	+08	1450	38.6	35.8	c28		
1+54	So.		1450	37.8	36.1	c17		
2+11	So		2400	38.6	37.2	c12		
2+13	Nor	+15	2400	40.1	37.0	c27		
2+71	Nor	+17		41.2	38.6	c28		
2+72	So	-03	2400	40.1	38.7	c14		
3+01	Nor	+13		41.7	39.3	c24		
3+02	So		2400	40.2	39.3	c11		
3+60	Nor	+13	3250	42.6	41.0	c14		6.3
3+63	So	-01	3450	41.2	40.7	c05		
4+18	Nor	+16	4400	43.5	42.3	c12		
4+21	So	+01	4450	42.9	41.9	c05		
7+16	So	-38	7421	27.7	32.3	F46		
9+69	So	+08	9250	41.2	39.2	c20		
10+23	So	+10	10400	49.3	41.8	c15		
11+09	So	+09	11400	46.6	46.0	c06		
11+17	Nor	+45	11400	50.2	46.8	c34		
12+52	So	+14	12400	52.5	52.3	c02		
12+37	Nor	+45	12400	55.6	52.4	c32		

City
installed

COTTON WOOD ST.

UNA TO THOR

④ STKS & GRDS FOR 6" WATER

Nov. 21, 1952

BRATTY
POWELL
ALEXANDER

27

12-16-52
RESTAINED AS
GRADER TOOK
OUT 1ST SET OF
STAKES.

BM	11.55	17.90		06.35		CH12 H on end of curb NE 1/4 side of ST.		
7+20	End of Work	13.3	04.6	0.70	C39		NOTE E DITCH IS THIS SAME Elev 25 ④ STKS	10.4 04.6 C39
6+80	6" Cross	12.6	05.3	01.00	C43			9.9 05.1 C41
6+75	6" GV.	12.5	05.4	01.00	C44			10.0 05.0 C40
6+60		12.4	05.5	01.2	C43			9.8 05.2 C40
6+55	F.H. TEE	12.1	05.8	01.8	C40	(F04 C37 FU)	15.00	9.9 05.7 C39
6+00		9.6	08.3	04.9	C34			6.9 08.1 C32
+50		6.1	11.5	08.0	C35			2.6 11.4 C34
5+00		3.2	14.7	11.1	C36			0.5 14.5 C34
C+50		0.2	17.7	14.3	C34		14 25.70 10.80 10 14.90 12 14 15.04 8.73 6.31	8.0 17.7 C34
4+00	8.89 26.61	0.18	17.72					4.7 21.0 C36
		5.5	21.1	17.4	C37			
+50		2.4	24.2	20.6	C36			1.5 24.2 C36
3+30		1.6	25.0	21.8	C32			0.7 25.0 C32
3+00		1.0	25.6	21.85	C38			0.1 25.6 C38
2+70		1.5	25.1	21.9	C32			0.7 25.0 C31
+50		2.3	24.3	20.7	C36		14 25.70	1.4 24.3 C36
2+00		4.7	21.9	18.0	C39			3.8 21.9 C39
+50		7.3	19.3	15.3	C40			6.5 19.2 C39
1+00		10.2	16.4	12.6	C38			9.2 16.4 C38
+60		11.9	14.7	10.5	C42			11.2 14.5 C40
+25	Begin Work	12.6	12.0	08.4	C56			11.6 12.1 C52
SET UP		10.93	15.68			Top F.H. SW Cor Una & Cottonwood	15.68 10.02	
TP	0.37 18.09	8.89	17.72					25.70 Hi
		11.76	06.33	= 06.35				

LANDIS ST. ALLEY - CROSSOVER

EAST OF NILE

(9610-L)

④ STR & GRDS SET FOR 6" WATER

(FOR WAT DIST)

DEC. 11. 1952

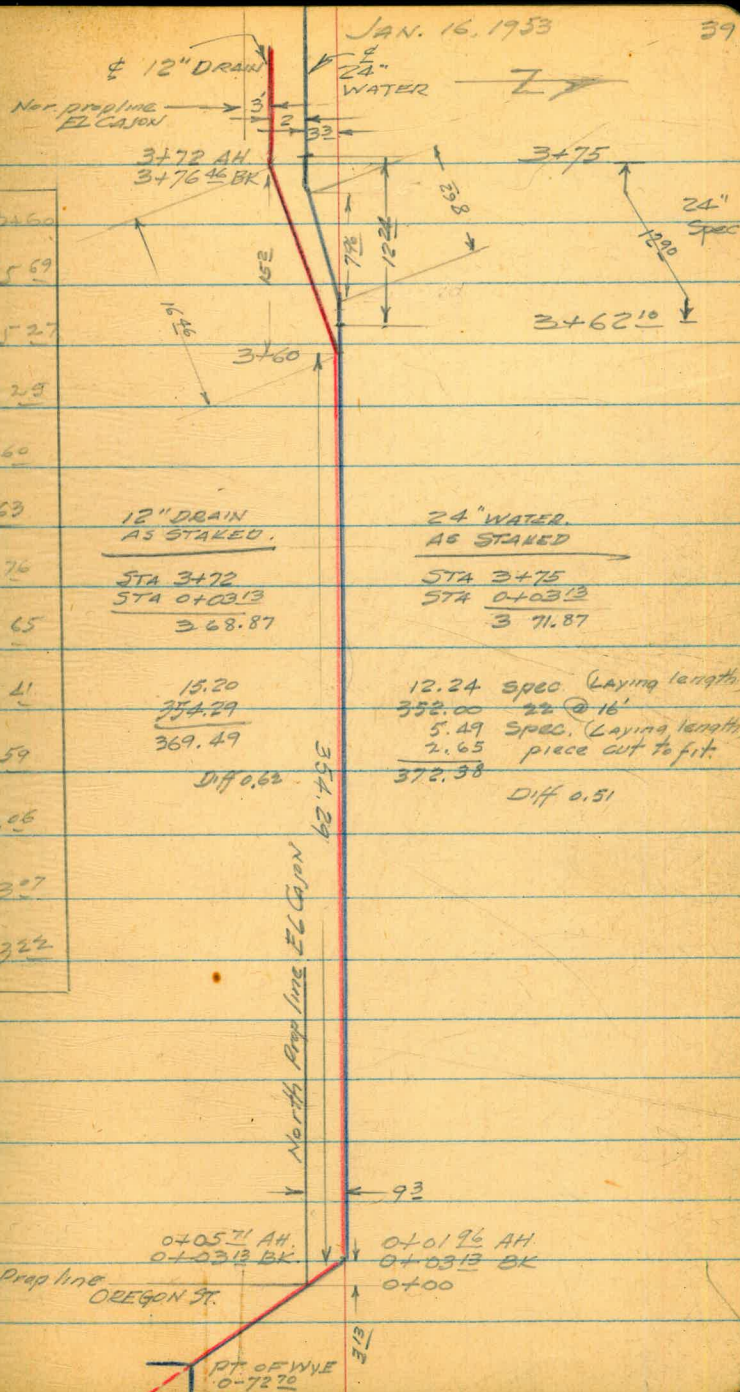
38.

BM	0.97	330.01	329.04	
0+00		13.35	310.66	311.8 C49
0+40		13.12	316.89	311.7 C52
0+80		12.51	317.50	311.6 C59

RELOCATION of 24" RCP WATER
EL CAYON BLVD.

OFF SET GRDS SET - INV. of 24"
AS BUILT ELEV of FLOOR of VAL CHAMBER

B4	9.61	375.11	365.50	B5	366.00
C 3+75		9.20	365.71	365.02	C 5.69
C 3+62.12		9.83	365.28	362.11	C 5.23
C 3+14.10	} 48' = 3 joints pipe @ 16'	8.63	366.48	360.73	C 6.23
2+66.10		7.15	367.96	360.36	C 7.60
2+18.10		5.99	369.12	360.29	C 8.63
1+70.10		2.73	370.38	360.62	C 9.76
1+22.10		3.71	371.60	360.78	C 10.65
0+74.10		2.82	372.39	360.88	C 11.41
0+26.10		1.51	373.60	361.01	C 12.59
0+10.10		1.01	374.10	361.04	C 13.06
0+07.45	} PIECE CUT TO FIT	0.94	374.17	361.10	C 13.07
0+01.96 AH. 0+03.13 BK		0.79	374.32	361.10	C 13.22
P	5.86	380.18	0.79	374.32	
SE PM	2.17	380.25	4.17	376.01	376.08
P	2.84	370.44	12.65	367.60	
NW Cor Fin Floor of Chamber		9.65	360.79		
AS BUILT	SW Cor " " " "	9.63	360.81	} 360.79	
	SE Cor " " " "	9.63	360.81		
	NE Cor " " " "	9.72	360.71		
FIN. TOP OF DECK EAST SIDE		374.70	W. SIDE		375.00



OREGON ST.
MEASUREMENT OF PAVEMENT,
SIDEWALK, CURB & GUTTER, A.C. SIDEWALK
REPLACED BY GOLDEN CONST. CO

May 28 1953
BEATTY
MARTEL
ALEXANDER

40.

$$78.30 \text{ lin. ft} \times 5' = 391.5 \text{ sq'}$$

$$150' \times 5' = 75 \text{ sq'}$$

$$\text{CONC SIDEWALK } 466.5 \text{ sq'}$$

293.30 lin. ft. Conc Curb & Gutter

$$5.10 \times 293.30 = 1495.83$$

$$3.30 \times 345 = 113.85$$

$$\underline{1609.68 \text{ sq'}}$$

PAVEMENT REPLACEMENT

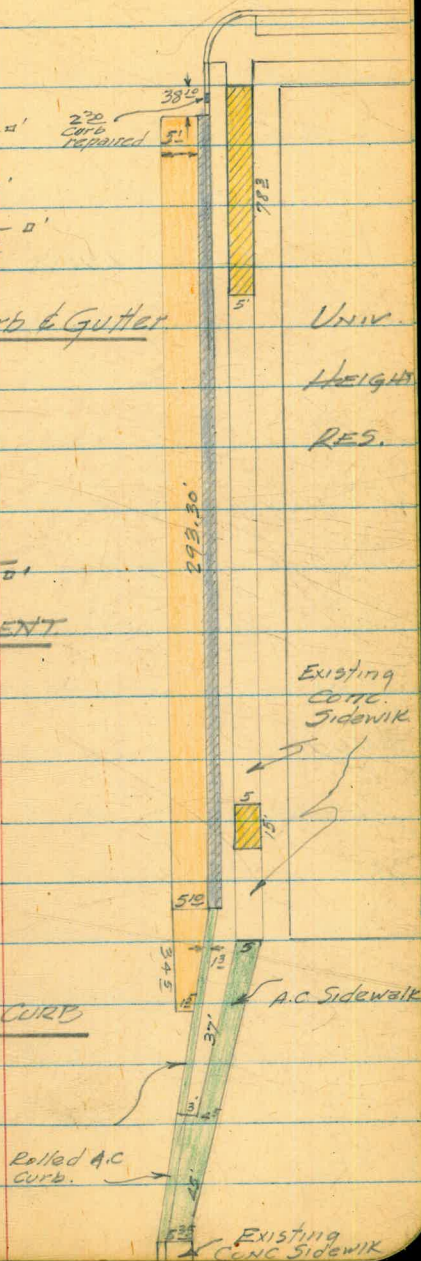
$$4.75 \times 37 = 175.75 \text{ sq'}$$

$$6.43 \times 45 = 289.35 \text{ sq'}$$

$$1.3 \times 37 = 48.10 \text{ sq'}$$

$$\underline{513.20 \text{ sq'}}$$

A.C. SIDEWALK & ROLLED CURB



UNIV.
HEIGHT
RES.

Existing
CONC.
SIDEWALK

A.C. SIDEWALK

ROLLED A.C.
CURB

Existing
CONC SIDEWALK

5/28/53

LARRY: -

CANNOT AGREE WITH THE
Estimated Quantities as
Shown on GOLDEN'S BILL.

(SEE F.B. 847 pg. 40.)

MEAS. Sidewalk	466.5	sq'
EST. " "	652.0	sq'

MEAS. Curb & Gutter	293.30	lin. ft.
EST. " "	328.00	" "

PAVEMENT REPLACEMENT		
MEAS.	1609.68	sq'
EST.	1999.00	sq'

AC. SIDEWALK & ROLLED CURB.		
MEAS.	513.20	sq'

~~AA~~

Beatty

Cloria St
Franklin to Ocean View
Sta's For existing 9meters

West
Williams
Varonfakis
Kemp

1-20-54

41

0-05 South prop line Franklin

BM SW BP 47^m + Oceanview Blvd

	12.02	128.51		116.49
	12.43	140.37	0.57	127.94
	9.57	148.88	1.00	139.37
0-08			3.0	145.5
+19			3.7	145.2
+54			4.0	144.7
+20			3.6	145.3
+45			1.7	147.2
+52			3.5	145.4
+91			2.2	146.7
+244			4.7	144.2
+42			3.5	145.4
+104			6.5	143.4
+03			6.6	142.3
+36			5.9	143.0
+101			7.5	141.4
+111			7.9	141.1
+573			9.1	139.8
	0.47	139.98	9.37	139.51
	0.48	129.70	10.76	129.22
	7.20	126.03	10.97	118.83

144.4 CO² WNE

144.5 CO² WNE

144.7 CO² WNE

145.0 CO³ WNE

145.4 C1⁸ WNW

144.8 CO⁶ WNE

144.9 C1⁸ WNW

143.2 C1⁹ WNE

143.6 C1⁸ WNW

142.3 C1¹ WNW

141.8 CO⁵ WNE

141.6 C1⁴ WNW

140.4 C1⁹ WNW

139.9 C1³ WNW

138.7 C1¹ WNW

-9.55

116.48 - 116.49

Alloy BIK 136 5ths for
N of Quince
E of Central
GAD Main
+ meter's

West
Williams. X
Varantakis +
Kenny

40

L-20-54

12 12.53 292.39 279.86

Top FH 0-11 See page 3

0+00 10.6 281.8 277.0 C4 $\frac{8}{3}$

+31 0.6 291.8 287.5 C4 $\frac{3}{3}$ WMW

+50 0.6 291.8 287.5 C4 $\frac{3}{3}$

12.41 304.63 0.17 292.27

+62 11.1 293.5 290.0 C3 $\frac{5}{1}$

+75 8.3 296.3 294.2 C2 $\frac{1}{2}$ WMF

1+00 6.5 298.1 297.4 C3 $\frac{1}{7}$

+27 4.6 300.0 299.3 C0 $\frac{1}{0}$ WMW

+37 5.1 299.5 295.5 C4 $\frac{0}{3}$

+50 5.0 299.6 295.3 C4 $\frac{3}{7}$

+53 4.4 300.2 299.5 C0 $\frac{1}{8}$ WMW

2+00 6.4 297.2 294.4 C3 $\frac{1}{9}$

+13 4.9 297.7 297.6 C0 $\frac{1}{9}$ WMW

+50 9.7 294.9 291.0 C3 $\frac{9}{8}$

0.02 291.60 1305 291.58

3+00 2.0 289.6 284.8 C4 $\frac{8}{5}$

+50 8.3 283.3 278.8 C4 $\frac{5}{5}$

0.52 279.33 12.79 278.81

NOTE:
Grade changed because
we found 6" C.I. Line at
268.8 @ 0+00

WMW

6" Length Pipe Available so
Put in same 6" Sta.
0+00 281.8 268.8 C13²
0+06 283.0 270.0 C13²
0+12 284.3 271.7 C12²
0+50 291.8 282.6 C9²
0+62 293.5 286.2 C7³
0+87 297.8 291.6 C6²
1+00 298.1 293.3 C4²
1+37 299.5 295.2 C4²

ALLEY

BLK. 136
(CONT.)

279.33

4+00

3.0 276.3

4+11

4.8 274.5

+50

7.4 271.9

+64

11.0 268.3

0.20 269.49 10.09 269.24

+77

9.9 259.5

0.09 256.44 13.09 256.35

5+00

8.2 248.2

+10

13.4 243.0

0.55 246.04 10.95 245.49

5+50

2.5 243.5

+75

5.3 240.7

6+00

11.2 239.8

+04

11.5 234.5

9.56 236.48

6+04 (5) @ FH

231.98

WEST

WILLIAMS X

VARON FAKIS

KEMP †

1-21-54

43

272.6

C3 $\frac{7}{4}$

268.1

C6 $\frac{4}{4}$ WM E

261.5

C10 $\frac{4}{8}$

262.5

C5 $\frac{8}{8}$ WM W

Turn on end of 2" Main

255.6

C3 $\frac{9}{9}$

243.1

C5 $\frac{1}{1}$

237.8

C5 $\frac{2}{22} \frac{1}{2}$ BEND

Turn on North rim sewer MH

235.8

C7 $\frac{7}{7}$

232.6

C8 $\frac{1}{1}$

226.8

C8 $\frac{0}{0}$

226.4

C8 $\frac{1}{1}$

= 236.38

Plug with 2" BD end of work
1" x 1" Hub + Tank

236.38

2.00

238.38

6.4

231.98

Needd stks for
6" Main + Meter

West
Varonfaks
Kemp

370.8 FH

41

410.4

	3.41	405.25	401.84	TBM spike in pole	See page 25 FB 818
0+12		16.8	388.5	381.2	C 73
+25		11.6	393.7	381.8	C 112
+50		9.0	401.3	384.5	C 168
	1284	417.96	013	405.12	
1+00		9.9	408.1	392.5	C 156
+50		5.6	412.4	400.2	C 123
+88		2.7	415.3	410.4	C 42 WM E
2+00		2.6	415.4	404.4	C 114
+50		2.8	415.2	406.2	C 90
3+00		4.25	413.0	406.0	C 70
	283	414.09	6.70	411.26	
+25		2.3	411.8	405.0	C 68
+50		4.4	409.7	403.2	C 65
+75		6.1	408.0	401.3	C 63
4+00		8.3	405.8	398.8	C 70
+50		13.2	400.9	392.7	C 83
	0.14	401.97	1228	401.81	
5+00		9.9	392.1	386.8	C 53

40197

060 389.61 1291 389.01

5+50 2 4.8 384.8

6+00 9.8 379.8

0.72 378.50 1283 376.78

+50 2.8 375.7

+75 4.8 373.7

+76 4.3 374.2

7+00 9.8 369.7

+20 12.2 366.3

0.40 11.81 377.10 2.10 374.40

10.24 376.64

38902
53
3837

38902
0.92
38904 AS

381.0 C 3²

375.0 C 4²

369.1 C 6⁴

366.8 C 6² FN 700

370.8 C 3⁴ (6) C FN

365.0 C 4²

361.0 C 5³

= 376.4 6+00 C 1000

Cottonwood St Woden to Vesta
 Pelim Group 104

6" to 1" Combination AC + Oil Pave
 Broken + Very Poor Condition

7+20 ³¹

Why Prop Line Vesta

7+13 ³¹

POT

Water Meters South

0+80	3793
1+17	3785
1+69	3777
1+92	3773
2+48	3767
2+86	3755
3+56	3749
3+95	3743
4+40	3735
4+94	3727
6+02	3709

Water Meters North

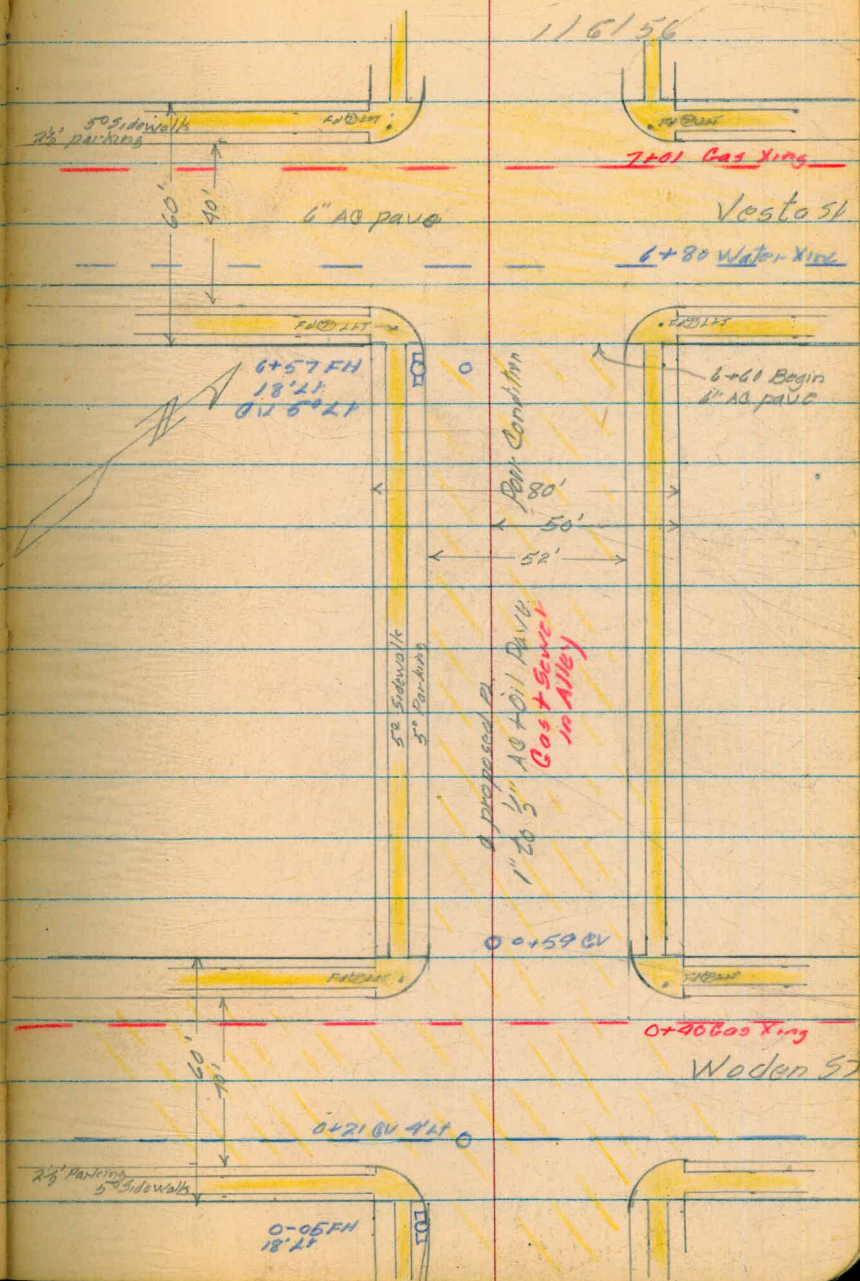
0+94	MN
1+37	3786
1+80	3780
2+36	3774
2+59	3766
3+04	3760
3+61	3748
4+30	3744
4+41	3730
5+13	3720-26-14
6+10	3710
6+80	3704

0+53 POT

0+00 Fly Prop Line Woden St

West
 Williams
 Varon Pakis
 Kellhofer

46



Cottonwood Profile

	4.93	25.58	20.65
0+00			5.38
0+02 ^E			5.38
+50			5.1
1+00			5.1
+50			5.3
2+00			5.4
+50			5.5
3+00			5.6
+50			5.7
4+00			5.9
+50			5.9
5+00			5.5
+50			6.0
6+00			6.0
+50			6.0
+71			6.42
7+00			6.22
+20			6.57
070	22.20		4.08
			5.96

21.50
16.24 = 16.21

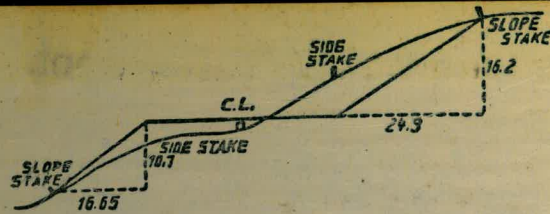
BM SWLY BP Wagon + Cottonwood
Ely Prop Line Wagon St
Beginning of 3' wide Cone Strip

Wly prop line Vesta
10 Top SW 25 Col Cottonwood Vesta
SW 21 Vesta + Delbergia St

~~00-5 FH 18' LT~~ ~~5+13 MN 3728~~ ³⁷²⁰
0+59 ~~GV ♀~~ ~~3716~~ 6+02 MS 3709
0+80 MS 3793 6+10 MN 3710
+94 MN 37 6+50 MN 3709
1+17 MS 3785 6+57 FH 18' LT
1+37 MN 3786 6+58 GV ♀ 5' LT
1+69 MS 3777
1+80 MN 3780 6+71 E. Gutter L
1+92 MS 3773 7+11 W Gutter L
2+30 MN 3774 ~~7+13 81 SIGHT~~
2+48 MS 3767 7+20 END
+59 MN 3766
+86 MS 3755
3+09 MN 3760
+56 MS 3749
+61 MN 3748
+95 MS 3743
4+30 MN 3744
+40 MS 3735
+41 MN 3730
+94 MS 3727

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

Paul Palmer



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	71.25	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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