

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.

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DIRECTIONS FOR USE OF TABLES

TABLE No. XIV

Distance of slope stake from side of shoulder
stake for any width roadway, slope 1 1/2 to 3
If ground is nearly level, the cut or fill stake

IMPROVED TABLES
AND
INFORMATION

TABLE No. VIII

To find Tangent and External for any of
any other degree, divide by degree of curve and
add correction found in column of correction
Degree of curve with a given L may be found
by dividing tangent for external, opposite L by
given tangent (or external).
The distance from a point on the tangent to
the curve is very nearly the square of the tangent
length, divided by twice the radius.

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	4.02	4.40	4.98	5.38	5.83
100°	.43	.86	1.30	1.74	2.18	2.62	3.06	3.50	3.95	4.40	4.88	5.37	5.85	6.34
110°	.51	1.03	1.56	2.08	2.61	3.14	3.67	4.21	4.76	5.31	5.86	6.43	7.01	7.60
120°	.62	1.25	1.93	2.52	3.16	3.81	4.45	5.11	5.77	6.44	7.12	7.80	8.50	9.22

FOR EXTERNALS ADD

Central Angle	DEGREE OF CURVE													
	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°
10°	.001	.003	.004	.006	.007	.008	.009	.011	.012	.014	.015	.017	.018	.020
15°	.003	.007	.010	.014	.018	.023	.027	.029	.032	.035	.039	.043	.047	.051
20°	.006	.011	.017	.022	.028	.034	.038	.045	.051	.057	.063	.070	.076	.083
25°	.009	.018	.027	.036	.046	.056	.065	.074	.083	.093	.106	.120	.127	.135
30°	.013	.025	.038	.051	.065	.078	.090	.103	.116	.129	.149	.170	.179	.188
35°	.018	.035	.054	.072	.086	.109	.131	.153	.175	.197	.213	.230	.247	.264
40°	.023	.046	.070	.093	.117	.141	.172	.203	.234	.265	.277	.290	.315	.341
45°	.030	.060	.093	.119	.153	.184	.216	.254	.289	.325	.351	.378	.411	.445
50°	.037	.075	.116	.151	.189	.227	.266	.305	.345	.384	.425	.467	.508	.550
55°	.046	.093	.142	.188	.236	.283	.332	.381	.420	.479	.530	.582	.641	.700
60°	.056	.112	.168	.225	.283	.340	.398	.457	.516	.575	.636	.697	.774	.851
65°	.067	.135	.204	.273	.343	.412	.483	.554	.625	.697	.711	.845	.922	1.01
70°	.080	.159	.240	.321	.403	.485	.568	.652	.735	.819	.906	.994	1.08	1.17
75°	.095	.182	.266	.353	.440	.528	.617	.707	.797	.877	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

1-13 Ties & Grades for Turquoise and La Jolla Blvd from Mission to Colima

14-15 Grades for west side La Jolla Blvd Colima to Midway.

16-17 Stake Storm Drain W. Point Loma Castelar to Seaside

18-20 Stake Thomas St Kendall to Lamont.

21- Stake 132' of Sewer Chalcedony & Academy

24 Sewer Stakes - upgrade - 28th & Main

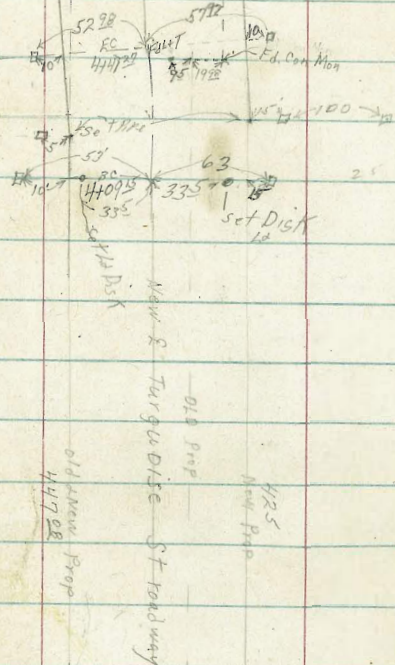
27- 38th - univ. to Wrightman Storm drain

D. Smith
E. Gregory
F. Sherman
G. Cota

6-12-50

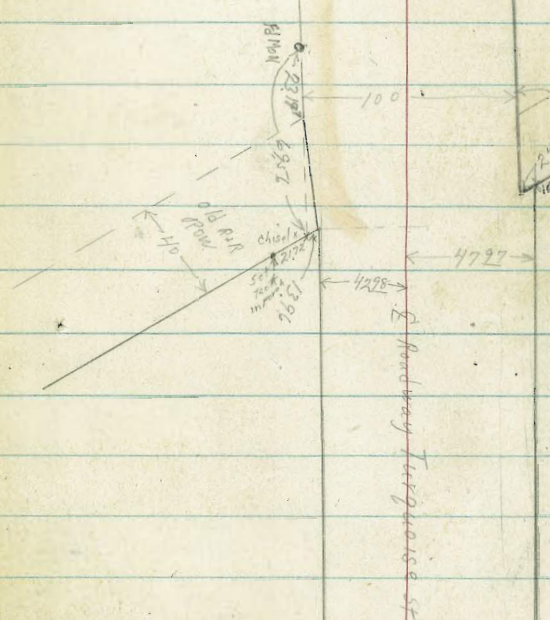
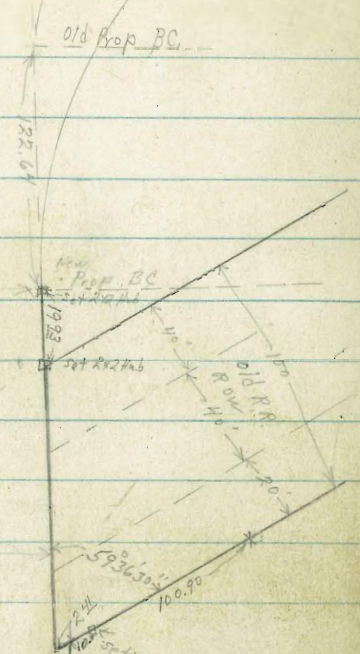
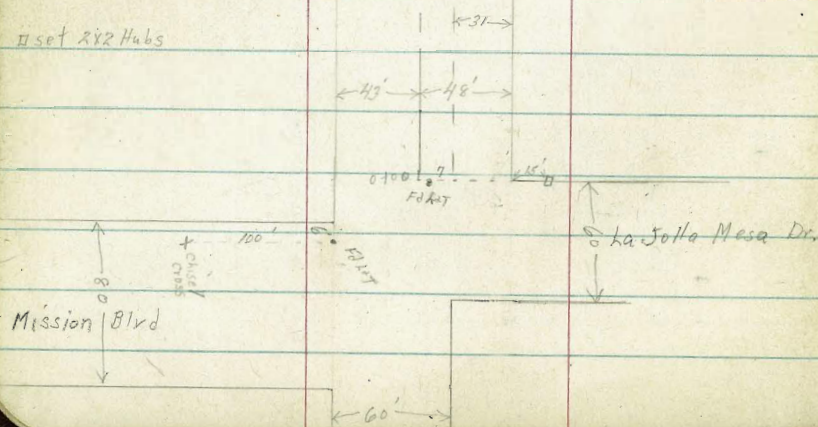
Roadway & Prop. Ties for
Turquoise & La Jolla Blvd

$\Delta 15026$
SP = 1000
L = 3212
T = 1606



Ref: FB 1837-37

II set 2x2 Hubs



BM 5' Prop. La Jolla Blvd.
LAT Colima + Jolla Blvd.

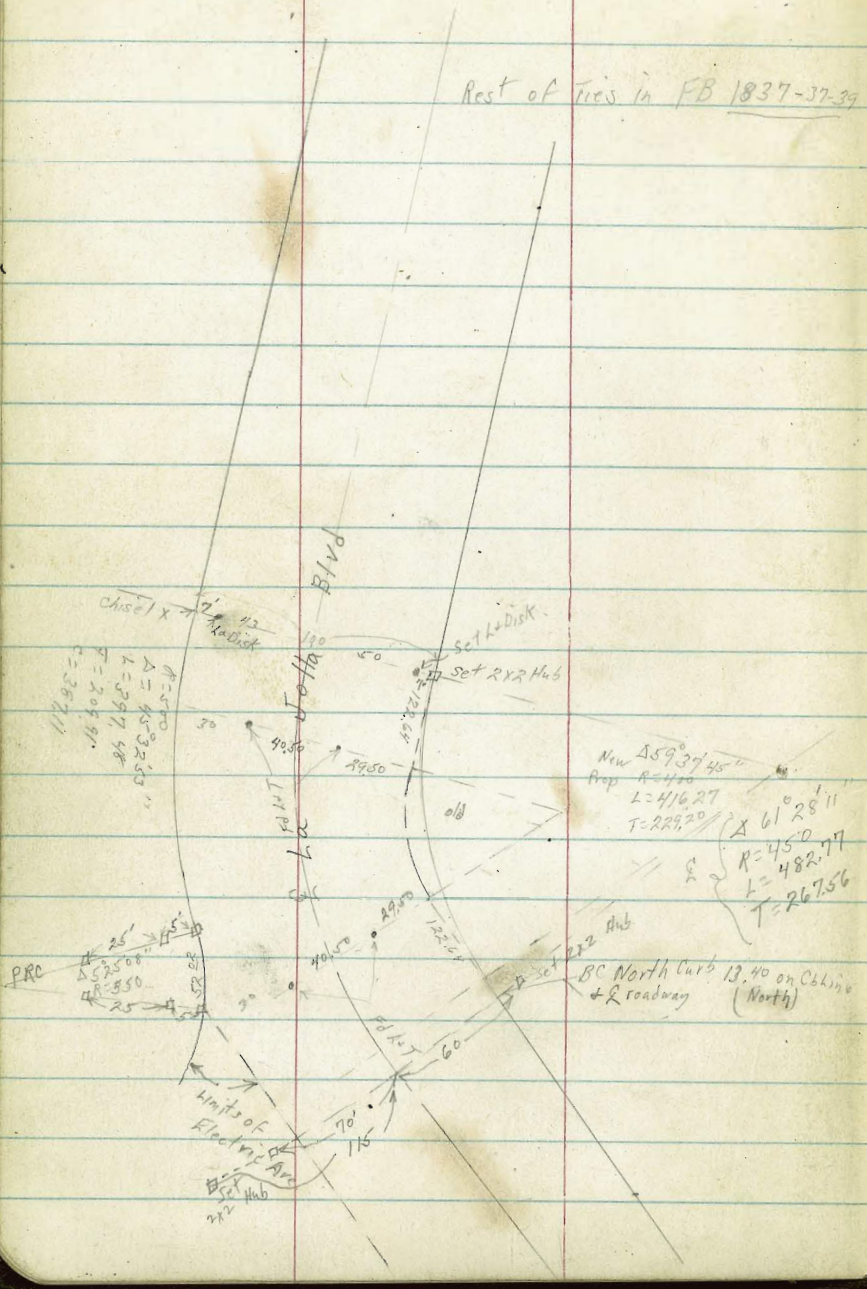
7823

0.85 79.08

3.12 75⁹⁶

SETSEBP
La Jolla +
Colima

Rest of Ties in FB 1837-37-39



sta	South					North				
	gutter	curb	$\frac{1}{4}$	E	R	$\frac{1}{4}$	curb	gutter	rough S	rough N
3+25 ²⁶ 8044	95.83	96.50		96.47			96.46	95.79	$\frac{3.84}{37}$ 0.01	$\frac{4.6}{12}$ 0.34
TP rough		119 10034								
3+00 ²⁶				97.12		97 ⁰⁰	97.12	96.45		$\frac{10.7}{8}$ 0.76
2+75 ²⁶ 8044	97.10			97.73		97 ⁶¹	97.70	97.03		$\frac{10.1}{21}$ 0.30
2+24 ²⁴	98.18			98.81		98 ⁶⁹	98.77	98.11		$\frac{9.0}{59}$ 0.31
1+73 ¹⁸	99.25			99.88		99 ⁷⁶	99.85	99.18		$\frac{7.9}{63}$ 0.6
1+22 ¹⁸	100.33			100.96		100 ⁸⁴	100.92	100.26		$\frac{6.9}{56}$ 0.3
0+71 ⁰⁶	101.40			102.03		101 ⁹¹	102.00	101.33		$\frac{5.8}{34}$ 0.34
0+20	102.48			103.11		102 ⁹⁹	103.08	102.41		$\frac{4.7}{30}$ 0.17
W Prof 0+00 to Jolla Mesa Dr				103.52						
BM	091	rough 10777		SE Fire Hyd 10688 Turquoise Mission			HI 10744			

west					East					
gutter	curb	Y	1/4	£	£	1/4	curb	gutter	rough	
10-55 ⁵⁶	74.36	75.03	3.95 4.10 F0.15	73.86 74.52	6.51		74.03	2.53 2.51 C0.02	73.34	6.5 7.6 F1.1
10-135 ⁵⁶	74.79	75.46	3.52 3.67 F0.15	74.29 74.95	6.08		74.46	2.10 2.13 F0.03	73.79	6.1 7.3 F1.2
10-155 ⁵⁶	75.26	75.93	3.05 3.25 F0.20	74.76 75.42	5.61		74.93	1.63 1.64 F0.01	74.26	5.6 7.3 F1.7
9-195 ⁵⁶	75.78	76.45	2.53 2.62 F0.09	75.28 75.94	5.09		75.45	11.37 11.39 F0.02	74.78	5.1 6.6 F1.5
				Sub HI 80 37						
9-175 ⁵⁶	76.33	77.00	1.98 2.00 F0.02	75.83 76.49	12.17		76.00	10.82 10.95 F0.13	75.33	4.5 4.7 F0.2
9-155 ⁵⁶	76.93	77.60	1.38 1.48 F0.10	76.43 77.09	11.57		76.60	10.22 10.26 F0.04	75.93	3.9 3.8 C0.1
TP	352	8152		12 1/4	78 00					81.52
9-147 ⁸³ PAC 1/2	77.17	77.84	1.14 1.28 F0.14							12.5 12.1 C0.4
		HI	78 28							
9-116 ¹²				77.65 78.31	10.35		77.82	9.00 9.07 F0.07	77.15	
8-176 ⁶⁹	79.37	8.63		78.87 79.53	9.13		79.04	7.78 7.98 F0.20	78.37	
				Sub HI	88 00		HI 86 88			

	west				West			
	gutter	curb	1/4	1/2	1/4	curb	gutter	rough
								w E
+30 End c/nt.						71.50		
						$\frac{5.06}{5.06}$ C.	71.00	
13+24 ⁸⁴ PC/CA	71.05	3.92 71.72		71.09 71.46		71.25	5.31 5.77 F012.	70.50
13+05 ⁵⁷ EC	71.22	3.55 71.89	7.69 7.79 existing	71.12 71.60		71.25	5.31 5.17 COL.	70.58
								9.63
12+55 ⁵⁷	71.76		6.55 6.81 F026	71.50 72.07		71.67	4.89 4.82 C027.	71.00
								91 91 C
12+05 ⁵⁷	72.30		6.01 6.26 F025	71.92 72.53		72.09	4.47 4.50 F023.	71.42
								8.5 8.6 F01
11+55 ⁵⁷	72.84		5.47 5.70 F023	72.34 73.00	8.03	72.51	4.05 3.88 C017.	71.84
								80 81 F01
11+35 ⁵⁷	73.06		5.25 5.56 F031	72.56 73.22	7.81	72.73	3.83 3.73 C019.	72.06
								78 82 F02
11+15 ⁵⁶	73.32		4.99 5.07 F022	72.82 73.48	7.55	72.99	3.57 3.48 C027.	72.32
								75 80 F05
10+95 ⁵⁶	73.63		4.68 4.78 F019	73.13 73.79	7.24	73.30	3.26 3.15 COL.	72.63
								72 78 F06
10+75 ⁵⁶	73.97		4.34 4.40 F026	73.47 74.13	6.90	73.64	2.92 2.88 C027.	72.97
								69 76 F07
		HI 78.28		Sub HI 80	37		HI 76.56	

west				East			
	gutter	curb			curb	gutter	rough
	6.41		1/4	1/2		6.42	W E
16788 ³⁴	68.36					68.15	
16778 ³⁴	68.57	69.24					
		6.18					6.17
16763 ³⁴	68.59			69.94	69.27	68.60	
16713 ³⁹	68.83	69.50		70.06	69.51	68.84	5.93
		5.94					
15764 ⁵⁴	69.08	69.75		70.18	69.75	69.08	5.69
		5.69					
15715 ²⁹	69.33	70.00		70.30	70.00	69.33	5.44
		5.44					
14787 ⁶¹	69.58	70.25		70.40	70.25	69.58	5.19
		5.19					
							H7 74.22
14746 ⁹¹	69.95	70.62		70.67			
		4.82					
14706 ²²	70.31	70.98		70.93			
		4.76					
13765 ⁵³	70.68	71.35		71.02			
		4.09		71.20			

West				East			
gutter	curb	1/4	1/2	1/4	curb	gutter	rough W E
20432 ¹⁴	68.93	4.85	69.60	69.67	69.59	69.09	4.69
19482 ¹⁴	69.08	4.70	69.75	69.83	69.75	69.25	4.53
19132 ¹⁴	68.93	4.85	69.60	69.79	69.60	69.02	4.76
18482 ¹⁴ PC _H	68.78	5.00	69.45	69.75	69.45	68.78	5.00
	HL 732 ⁸						
18481 ⁰⁶ RC _H					69.45	68.78	5.00
						HL 732 ⁸	
18426 ²⁰				69.77			
17472 ⁶⁵				69.78			
17418 ²⁹ RC _H	68.30	6.47	68.97	69.80	68.96	68.29	6.48
17404 ³⁴	68.39	6.38					
16494 ³⁴	68.28	6.49		69.86	69.11	68.15	6.62
	HL 747 ²²						
						HL 747 ²²	

west

East

11

	gutter	curb	1/4	2	2	1/4	curb	gutter	rough w E
23+55 ²⁹	69.95	3.83 70.62		70.76		70.87	8.35 8.11 60.24 -	70.26	9.8 8.1 63.7
23+10 ²⁹	69.43	4.35 70.10		70.24		70.35	8.87 8.32 60.53 -	69.68	10.3 9.0 61.3
22+65 ²⁹	68.91	4.87 69.58		69.72		69.83	9.39 8.60 60.79 -	69.16	10.9 9.1 61.8
22+33 ²⁹ BRK	68.54	5.24 69.21		69.43		69.46	9.76 9.03 60.73 -	68.79	11.3 9.4 61.7
22+15 ²⁹ BRK	68.17	5.52 5.61 5.72 5.11 4/4 69.00		69.33		69.27	9.95 8.90 61.05 -	68.58	11.5
21+97 ²⁹ BRK	68.38	5.40 69.05		69.27		69.13	10.09 9.75 60.14 -	68.63	11.6 9.8 61.8
21+65 ²⁹	68.50	5.28 69.17		69.28		69.20	10.02 9.88 60.12 -	68.70	11.5 9.4 62.1
21+31 ⁰⁶ BRK	68.63	5.15 69.30		69.36		69.27	9.95 9.99 60.77	68.77	11.44 11.44
BM									
20+82 ¹⁴	68.78	5.00 69.45		69.51		69.49		68.93	4.85
		HI 73.28							HI 73.78

78²³ N. S. cor lot
by Jolla & Colina

HI 79.23

west			East				
gutter	HI	carb	£	£	carb	gutter	12
25770 ²²	72.52	7319	$\frac{6.03}{6.05}$ FO ⁰²				$\frac{75}{88}$ 71.3
25765 ³¹					73.47	$\frac{5.75}{5.66}$ CO ⁰⁹ 72.80	$\frac{7.2}{6.0}$ 072
25751 ⁰⁴	prop				73.17		$\frac{75}{59}$ 076
25745 ²⁹	72.15	72.82	$\frac{6.40}{6.56}$ FO ¹⁶				$\frac{79}{97}$ F1.8
25735 ²⁵	prop				72.97		$\frac{78}{61}$ 072
25701 ⁵⁹	71.64	72.31	$\frac{6.91}{7.42}$ FO ⁵⁵	72.53			$\frac{84}{10}$ F1.6
	prop	71.78	$\frac{6.94}{8.53}$ F1.59				
24787 ⁵					72.41	$\frac{6.81}{6.87}$ FO ⁰⁶ 71.74	$\frac{83}{6.6}$ 07.7
	prop	71.56	$\frac{7.16}{8.49}$ F1.33				
24747 ²⁹	71.02	71.69	$\frac{7.53}{8.12}$ FO ⁵⁹				$\frac{9.02}{9.07}$ 07
		↓ 2.79					
24745 ²⁹	70.99	71.66		71.80	71.91	$\frac{7.31}{7.25}$ CO ⁰⁶ 71.24	$\frac{8.8}{6.5}$ 023
24700 ²⁹	70.47	71.14		71.28	71.39	$\frac{7.83}{7.92}$ FO ⁰⁹ 70.72	$\frac{9.3}{6.6}$ 02.7
	HI	73 ²⁸			HI 79 ²²		

west East

gutter curb $\frac{1}{2}$ $\frac{1}{2}$ curb gutter rough 13

BM 248 80.71 78 ^{ht} _{NE cor} Colman La Jolla Blvd 80.71

HI 77.22

27+63³⁰ _{RC₁} 77.33 78.00 $\frac{1.22}{1.17}$
 $\frac{00.05}{00.05}$

$\frac{2.7}{2.2}$
 $\frac{00.5}{00.5}$

27+41⁴¹ 76.86 77.53 $\frac{1.69}{1.65}$
 $\frac{00.04}{00.04}$

$\frac{3.2}{2.9}$
 $\frac{00.3}{00.3}$

27+11³⁵ 75.96 76.63 $\frac{2.59}{2.47}$ 77.15
 $\frac{00.12}{00.12}$

$\frac{4.1}{4.0}$
 $\frac{00.1}{00.1}$

26+76⁹⁶ _{prop} 76.35

26+60⁶⁶ _{RC₁} 74.74 75.41 $\frac{3.81}{3.90}$ 75.93
 $\frac{F002}{F002}$

$\frac{3.28}{3.89}$ 75.30 $\frac{5.3}{5.8}$ $\frac{4.7}{5.3}$
 $\frac{F064}{F064}$ $\frac{01.4}{01.4}$

26+29 _{ht}

$\frac{4.64}{4.76}$
 $\frac{F002}{F002}$

26+13⁰²

74.72 $\frac{4.50}{4.73}$ 74.05 $\frac{6.0}{5.5}$
 $\frac{F023}{F023}$ $\frac{00.5}{00.5}$

25+97²⁸ 73.08 73.75 $\frac{5.47}{5.49}$ 74.15
 $\frac{F002}{F002}$

$\frac{4.0}{8.2}$
 $\frac{F12}{F12}$

Grades for La Jolla Blvd.
Colma to Midway

14

curb

gutter

rough

2+93.75			72.68	8.32			9.8
			72.36	8.77			10.6
				FO 45			FOE
2+51.78			73.22	7.78			9.2
			72.95	8.22			9.3
				FO 44			FOE
2+09.81			73.76	7.24			8.7
			73.53	7.40			8.4
				FO 6			COE
1+67.85			74.30	6.70			8.1
			74.11	6.90			7.2
				FO 20			COE
1+25.89			74.84	6.16			7.5
			74.70	6.38			6.4
				FO 22			CLT
0+83.92			75.38	5.62			6.9
			75.28	6.06			6.1
				FO 24			COE
0+41.96			75.92	5.08			6.3
			75.84	5.66			5.5
				FO 58			COE
0+00 BC VWG/line			76.45	4.55			5.7
				5.09			4.7
				FO 54			COE

BM 277 81.00

BM 325 82.18

NE COR 247
78.23 Colma to La Jolla Blvd.

End. Ret

69.48

6.45
6.91
10.86

Mid pt.

69.99

5.94
6.77
10.83

4+64⁶¹ BC obret.

70.49

5.44
6.49
11.05

4+49⁶¹

70.68

5.25
6.32
11.07

4+13⁶¹

70.64

5.29
5.42
10.13

FP 5³⁸ 75²³ 10.45 70⁵⁵

Prop
End Return 17²¹

at Colima

76.75

4.25
4.05
0.20

1/2 Return 17'

76.62

4.38
4.71
10.33

HI = 81⁰⁰

3+77⁶⁸ End

60
~~71.70~~
50

9.40
10.45
11.05

11.0
10.6
0.02

3+35.72

72.14
~~71.78~~

8.86
9.37
10.51

10.4
11.9
1.5

HI = 81⁰⁰

D. Smith
E. Gregory
F. Sherman
G. Co. 9.

Stake Storm Drain WO# 20613
West Point Home Blvd 7-1450
Seaside St to Castelar

FB 2013-41
Drawing # 8025 "L"

(all are 5'5" Lt of 2 pipes)

16

				5+90	14.55	9.47 5.92 C-3.55
2+52.82 FC	4°33'30"	18.18	15.63 4.12 C-11.51			
				5+50 Brk	15.80	8.22 3.76 C-4.26
2+13.58	3°38'50"	18.49	15.32 4.35 C-10.97			
				5+38. Alt 5°00'	15.90	8.12 3.23 C-4.89
1+74.33	2°44'06"	18.81	15.00 4.58 C-10.42	TP 0.07 24.02 π↑	9.86 23.95	
				4+99.33	16.21	17.60 9.86 C-7.74
1+35.08	1°49'24"	19.12	14.69 5.06 C-9.63			
				4+60.66	16.52	17.29 7.86 C-9.43
95+83	0°54'42"	19.44	14.37 5.64 C-8.73			
				4+22 Alt 5°00'	16.83	16.98 6.34 C-10.64
0+56.58 FCC	0°00' 5°04'30"	19.75	14.06 6.22 C-7.80			
				3+79.70	17.17	16.64 5.22 C-11.42
0+28.29	2°32'15"	19.98	13.83 7.21 C-6.62			
				3+37.41	17.51	16.30 4.41 C-11.89
0+00		FL 20.20	13.61 7.03 C-6.58			
		grate 25.88	7.93 9.03 C-0.20	2+95.11	17.84	15.97 4.17 C-11.80
		Top cb 26.87 existing	6.94 7.03 C-0.09			
690	3381	560	26.21			
BM 219	3251	30.32	SE BP W Point Home & Ebers	3381		

cont

17

	at inlet Topch	13.55	✓ 1042 vol. 1360 Flv
	at inlet gut	12.52	
	existing 12" cov pipe	Top 10.60 Fl 9.60	
Stub 5' East	Top	14.20	9.83 9.65 K012
7+35.14 E cleamout	Fl.	10.01	14.01 9.65 C-4.34
7+10		10.80	13.22 16.18 C-3.04
6+70		12.05	11.97 9.15 C-2.82
6+30	0.313	13.30	10.72 7.44 C-3.28

D. Smith
E. Sherman
G. Cota
Sta

North (ht)
Stake Thomas
gutter

Ties F.B. 1819 P.S. 66

St. Kendall to Lamont
curb

South (ht)
curb

W0#31376 (18)
6-22-50
gutter rough

1+70	$\frac{7.4}{6.3}$ C14	4944	5044	$\frac{6.57}{6.35}$ C0.22	4969	4961	$\frac{7.07}{7.12}$ F006	4894	$\frac{7.9}{7.7}$ C03
1+56	$\frac{7.1}{6.3}$ C08	4968	5035	$\frac{6.33}{6.05}$ C028	4993	4988	$\frac{6.83}{6.73}$ C019	4918	$\frac{7.6}{7.6}$ C
1+30	$\frac{6.8}{6.1}$ C02	4999	5066	$\frac{6.02}{5.90}$ C012	5024	5016	$\frac{6.52}{6.33}$ C019	4949	$\frac{7.3}{7.0}$ C03
1+10	$\frac{6.5}{6.0}$ C05	5036	5103	$\frac{5.65}{5.80}$ F015	5061	5053	$\frac{6.15}{6.17}$ F022	4986	$\frac{7.0}{6.9}$ C01
0+90	$\frac{6.1}{5.6}$ C05	5077	5144	$\frac{5.24}{5.35}$ F011	5102	5094	$\frac{5.74}{6.09}$ F026	5027	$\frac{6.6}{6.6}$ C
0+70 Bk	$\frac{5.6}{5.4}$ C02	5125	5192	$\frac{4.76}{4.75}$ C001	5150	5142	$\frac{5.26}{5.36}$ F010	5025	$\frac{6.1}{5.5}$ C06
0+20				$\frac{4.00}{3.96}$ C004	5277		$\frac{4.49}{4.61}$ F012		
0+10 BC	$\frac{4.0}{4.0}$ C	5278	5345	$\frac{3.28}{3.66}$ F043		5295	$\frac{3.73}{4.04}$ F031	5228	$\frac{4.6}{3.9}$ C02
X. 19° 29'									
E.P.P.P 0+00 Kendall		5310	5320	$\frac{2.98}{3.33}$ F035	5315	5320	$\frac{3.98}{3.64}$ F016	5260	
BM	$\frac{5.11}{5.22}$ 5668 5742				5751				5742

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Law
MAR 31 1952

NWB10 Kendall -
Brand.

North (A)

South (RT)

19

Sta	rough	gutter	carb	£	£	carb	gutter	rough
4440 Brk	$\begin{array}{r} 6.3 \\ 5.2 \\ \hline C12 \end{array}$	4478	$\begin{array}{r} 5.86 \\ 5.66 \\ \hline C020 \end{array}$	4503		$\begin{array}{r} 6.36 \\ 6.11 \\ \hline C025 \end{array}$	4488	$\begin{array}{r} 6.8 \\ 6.1 \\ \hline C02 \end{array}$
4420	$\begin{array}{r} 5.4 \\ 4.8 \\ \hline C06 \end{array}$	4562	$\begin{array}{r} 4.95 \\ 4.75 \\ \hline C020 \end{array}$	4594		$\begin{array}{r} 5.45 \\ 5.50 \\ \hline F005 \end{array}$	4519	$\begin{array}{r} 5.9 \\ 5.3 \\ \hline C06 \end{array}$
4400	$\begin{array}{r} 4.6 \\ 4.1 \\ \hline C05 \end{array}$	4627	$\begin{array}{r} 4.17 \\ 4.33 \\ \hline F015 \end{array}$	4622		$\begin{array}{r} 4.67 \\ 5.27 \\ \hline F060 \end{array}$	4597	$\begin{array}{r} 5.1 \\ 5.3 \\ \hline F02 \end{array}$
3480	$\begin{array}{r} 4.0 \\ 3.3 \\ \hline C02 \end{array}$	4711	$\begin{array}{r} 3.53 \\ 3.24 \\ \hline C029 \end{array}$	4736		$\begin{array}{r} 4.63 \\ 4.49 \\ \hline F046 \end{array}$	4661	$\begin{array}{r} 4.5 \\ 4.6 \\ \hline F01 \end{array}$
3460	$\begin{array}{r} 3.5 \\ 3.1 \\ \hline C04 \end{array}$	4762	$\begin{array}{r} 3.02 \\ 3.33 \\ \hline F031 \end{array}$	4787		$\begin{array}{r} 3.52 \\ 3.75 \\ \hline F023 \end{array}$	4712	$\begin{array}{r} 4.0 \\ 4.3 \\ \hline F03 \end{array}$
TP 328	5128 [↑]		949	4800				5128 [↑]
3440	$\begin{array}{r} 8.9 \\ 7.7 \\ \hline C13 \end{array}$	4728	$\begin{array}{r} 2.66 \\ 2.60 \\ \hline C006 \end{array}$	4823		$\begin{array}{r} 3.16 \\ 3.20 \\ \hline F004 \end{array}$	4748	$\begin{array}{r} 9.4 \\ 9.7 \\ \hline F03 \end{array}$
TP.06	238	5131	725	4893		5131		
3420 Brk	$\begin{array}{r} 8.6 \\ 7.5 \\ \hline C14 \end{array}$	4821	$\begin{array}{r} 7.80 \\ 6.34 \\ \hline C146 \end{array}$	4846		$\begin{array}{r} 8.30 \\ 8.31 \\ \hline F001 \end{array}$	4721	$\begin{array}{r} 9.1 \\ 9.1 \\ \hline G \end{array}$
2+76.66	$\begin{array}{r} 8.3 \\ 7.1 \\ \hline C12 \end{array}$	4856	$\begin{array}{r} 7.45 \\ 7.75 \\ \hline F030 \end{array}$	4881		$\begin{array}{r} 7.95 \\ 8.00 \\ \hline F005 \end{array}$	4806	$\begin{array}{r} 8.8 \\ 8.4 \\ \hline C04 \end{array}$
2+33.33	$\begin{array}{r} 7.9 \\ 6.6 \\ \hline C13 \end{array}$	4820	$\begin{array}{r} 7.11 \\ 6.96 \\ \hline C015 \end{array}$	4915		$\begin{array}{r} 7.61 \\ 7.26 \\ \hline C035 \end{array}$	4840	$\begin{array}{r} 8.4 \\ 8.3 \\ \hline C01 \end{array}$
1490 Brk	$\begin{array}{r} 7.6 \\ 6.4 \\ \hline C12 \end{array}$	4925	$\begin{array}{r} 6.76 \\ 6.54 \\ \hline C022 \end{array}$	4950		$\begin{array}{r} 7.26 \\ 7.23 \\ \hline C003 \end{array}$	4825	$\begin{array}{r} 8.1 \\ 7.8 \\ \hline C02 \end{array}$
	5742 [↑]		5668			5668		5742 [↑]

Sta.	rough	North (ht)			South (ht)			rough
		gutter	curb	£	£	curb	gutter	
TP			10 14	41 64	✓	SWC6 End Thomas + Lamont 4163 ✓ FB/19-7		
3 EC. Lamont.		42 18	42 27	8.52 8.52 ✓		41 38	9.93 9.92 ✓	40 87
Prop Thomas 1. 64 29'		41 87	42 54	8.77 8.68 C 0.09		41 50	9.81 9.55 C 0.26	40 88
5420					41 31			
£ Return 46° 00'		41 71	42 38	8.92 8.66 C 0.27		41 65	9.66 9.84 F 0.18	40 78
W. Prop 5700 Lamont (19 29')		41 88	42 50	8.81 6.35 C 2.46	41 94	42 00	9.31 7.68 C -1.63	41 33
4490 BC.	88 69 C 19	42 32	42 99	8.32 7.91 C 0.41		42 47	8.82 8.22 C 0.60	41 82
4780			43 48	7.83 7.22 C 0.61	43 06	42 98	8.33 7.80 C 0.53	9.3 7.9 C 1.4
4460	51 28		44 47	6.84 6.85 F 0.01		43 97	7.34 6.94 F 0.40	51 28
			51 31			51 31	C 0.38	

D. Smith
E. Sherman
G. Cota

Stake 132' Sewer

Chalcedony & Academy

6-28-50

21

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MAR 31 1952

5' RT chise (X) S
(South)

1+32 connection to existing 4" cast iron

105⁹³

9.90
2.30
C-7.60

tip of 2' west of
connection

1+00

105⁷⁴

10.09
3.67
C-6.42

0+75

108⁴⁰ Elev. Bottom inside Storm Drain

105⁶²

10.21
4.51
C-5.70

100.5 note

0+50

105⁴⁹

10.34
4.73
C-5.61

0+25

105³⁷

10.46
4.24
C-6.22

0+00 = Existing M.H. 67' west of West Line Academy

104²⁴

105²⁴

F.L.

allow 1' drop

10.59
3.86
C-6.73 on M.H. rim

TP 386 115⁸³ 8²² 111⁹⁷

TP 057 120¹⁹ 10⁰⁵ 119⁶²

BM 364 129⁶⁷ 126⁰³ SE 1/4 Lamon & Chalcedony

D. Smith
W. Fay
F. Bunch

Stake Sewer Niagara

+ Easement

WO # 62184 22
8-17-50

2140
167.80 ^{15.36} 168.89

TP₂ 12¹² 183¹⁶ 0³⁰ 171.04 ^{C-4.47}

2110
164.20 ^{7.14} 171.34
^{2.32}
C-4.82

1780
160.60 ^{10.74} 171.34
^{5.32}
C-5.42

1750
157.00 ^{14.34} 171.34
^{8.96}
C-5.38

TP₁ 12.30 171.34 0.25 159.04

1720
153.40 ^{5.89} 159.29
^{0.97}
C-4.92

6790
149.80 ^{9.49} 159.29
^{4.66}
C-4.83

6760
146.20 ^{13.09} 159.29
^{8.70}
C-4.39

6730
142.60 ^{9.16} 151.76
^{5.12}
C-3.97

6700 & MH Catalina 139.00

157²⁶ →

B.M. 172 159²⁹

stakes 45 Rt.
or North
Catalina
157⁵² Narragansett

3780⁸⁷ DE

TP₄ 11²² 206²²

3760

3730

TP₃ 12²⁴ 194⁹⁶

2799⁸⁷ MH #1

2770

1326
255
192.96 C-5.71

666 194³⁰

186.97 ^{7.99}
^{1.83}
C-6.11

180.97 ^{13.97}
^{8.16}
C-5.81

644 182⁷²

174.98 ^{8.18}
^{1.93}
C-6.25

171.40 ^{11.76}
^{6.91}
C-4.85

1490 DE

12.02
194.20 - 6.40
C-5.62

1470

HI 206²²

14.02
192.20 - 9.88
C-4.17

1456

4.76
190.20 - 1.43
C-3.33

1420

7.76
187.20 - 5.08
C-2.68

0490

10.76
184.20 - 8.24
C-2.52

0460

HI 194⁹⁶

13.76
181.20 - 11.19
C-2.57

TP

0430

4.96
178.20 - 3.64
C-1.32

0400 = MH #1

7.96
175.20 - 1.93
C-6.03

HI 183¹⁶

stake 15' RT
or East

Stake Sewer 2.8th & Main
stakes 5' RT upgrade

wo # 62103 24

2+10 9²² $\frac{9.47}{3.31}$
C-6.16

5+18³²

10⁶⁴ $\frac{18.06}{7.19}$
C-10.87

1+80 9¹⁰ $\frac{9.59}{5.98}$
C-3.61

4+88³²

10⁵³ $\frac{18.18}{9.65}$
C-8.53

1+56 8⁹⁸ $\frac{9.71}{7.73}$
C-1.98

10²² = 22 North
4+58³² MH # 3 = 1 L.H. 89° 52'
TP 11¹⁵ 28²⁰ 14

South 18.48 West 18.30
10²² $\frac{9.80}{8.68}$ 10⁴⁰ $\frac{9.80}{8.50}$

1+20 8⁸⁶ $\frac{9.83}{7.62}$
C-2.21

4+25⁶³

17⁵⁵ $\frac{8.61}{2.28}$
10⁰⁸ C-6.33

0+90 8⁷⁴ $\frac{9.95}{7.48}$
C-2.47

3+93⁶³

9⁹⁵ $\frac{8.74}{4.06}$
C-4.68

0+60 8⁶² $\frac{10.07}{6.62}$
C-3.45

(3+10) west
3+61⁶³ MH # 2 L. RT 63° 58'

9⁸² $\frac{8.87}{5.14}$
C-3.73

0+30 8⁵⁰ $\frac{10.19}{7.01}$
C-3.18

3+30

9⁷⁰ $\frac{8.99}{6.35}$
2.64

5+10 North Const MH # 1
0+00 Existing 8" sewer L 8³⁸ $\frac{10.31}{7.01}$
C-3.30

3+00

INDEXED
Law.
MAY 31 1952

9⁵⁸ $\frac{9.11}{6.59}$
C-2.52

TP, 1+14 18⁶⁹ 10⁵⁰ 17⁵⁵

2+70

9⁴⁶ $\frac{9.23}{6.92}$
C-2.26

BM 0+20 28⁰⁵ 27³⁵ NW 1/4 Disk
28th & Main
FB 1795-32

2+40

9³⁴ $\frac{9.35}{4.18}$
C-5.17

BM starting

061 27³⁵

TR₃ 10⁴¹

27⁹⁶

11¹⁵

17⁵⁵

6408³² DE

5210 RP

11⁰⁰

17.70
3.94
C-13.76

5793³²

10²⁴

17.76
6.11
C-11.65

5773³² Begin Heavy Pipe

10⁸⁶

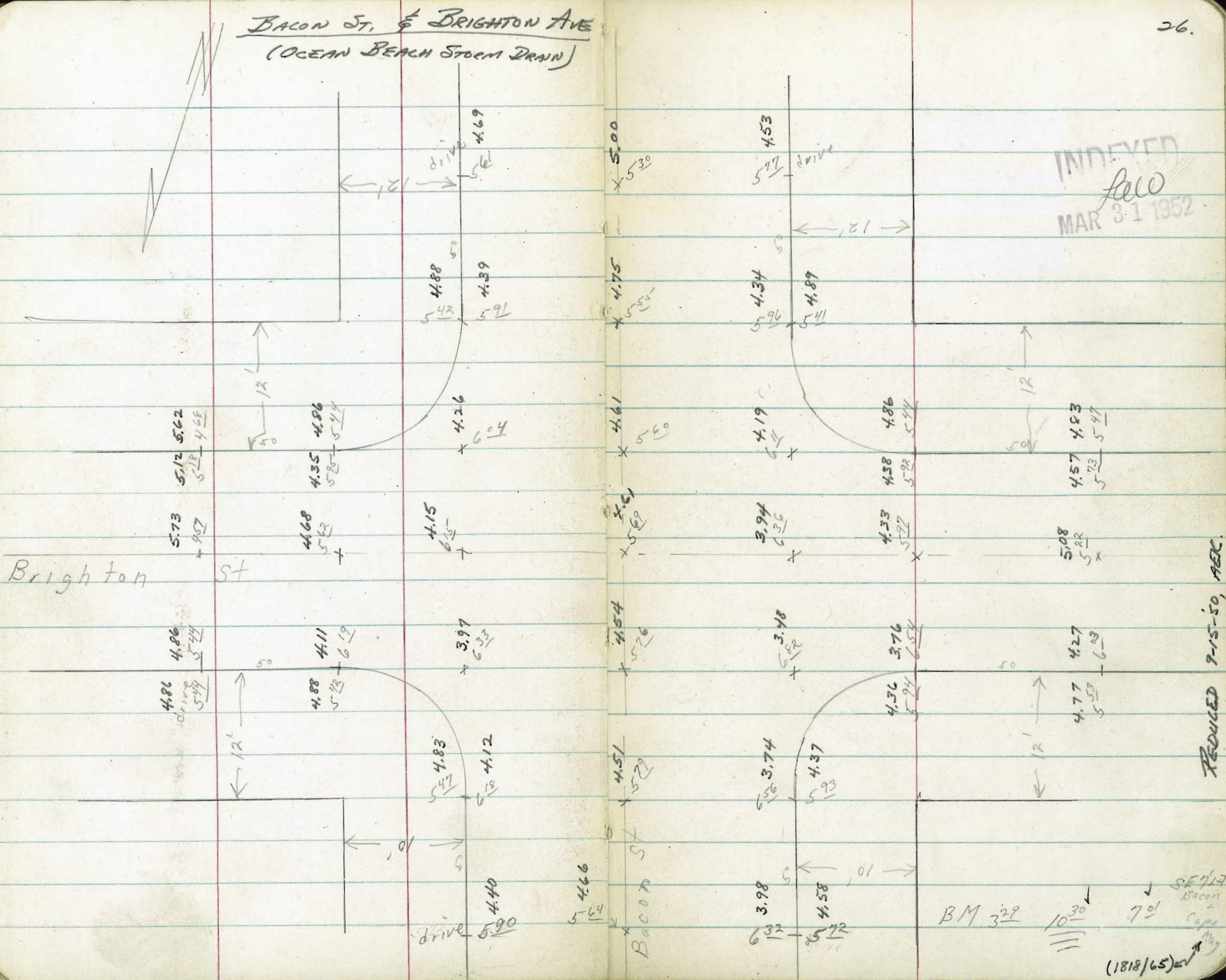
17.84
9.48
C-8.36

5748³²

10²⁶

17.94
6.62
C-11.32

BACON ST. & BRIGHTON AVE
(OCEAN BEACH STORM DRAIN)



D. Smith
Wm Fay
E. Sherman

Stake Storm Drain
University to

38th st.
Wightman
85 ft

W[#] 20659 27
9-20-50

2705⁶

333⁹⁵

14.06

6.07

C-7.99

13.33

5.37

C-7.96

12.78

4.66

C-8.12

12.23

3.85

C-8.38

11.68

3.10

C-8.58

0490

336³³

11.12

2.84

C-8.28

10.68

1.60

C-9.08

0436⁰⁶ EC.

337³³

46.13

37.66

C-8.47

415.96

37.99

C-7.97 FL

0400

337²⁹

346.31

3.73

C-8.06

BM

170

3

NW Rad Pt
38th
Univ.

4136 Brk

327³⁶

13.63

6.29

C-7.34

4110⁴

328¹⁰

12.89

5.01

C-7.88

3484⁸

328⁸³

12.16

4.08

C-8.08

3459²

329⁵⁶

11.43

3.17

C-8.26

3433⁶

330²⁹

10.70

2.39

C-8.31

TP 867 348⁰¹

331⁰²

16.99

8.78

C-8.21

2482⁴

331⁷⁶

16.25

8.09

C-8.16

2486⁸

332⁴⁹

15.32

7.44

C-8.08

2431²

333²²

14.77

6.73

C-8.06

INDEXED
MAR 31 1952

NWBP
38M + Wightman
FB2066-10

B.M. 0⁵³ 320²⁰
↓

319⁶⁷

6+85⁹² cleanout

311²⁴

1268
1129
C-7.39

6+61

312⁸⁶

1706
937
C-7.69

8+25 Headwall

297⁷²

2248
1824
C-4.24

6+36

314⁴⁷

1545
743
C-8.02

8+09 EC

299⁵²

2068
1460
C-6.08

6+11

316⁰⁹

1384
549
C-8.35

7+97⁴⁸ BC

300⁸³

1937
938
C-9.99

5+84

317⁶⁹

12.23
352
C-8.71

7+77⁴⁴

329⁹²

2650
940
C-17.10

5+61

319³⁰

1062
166
896

7+74⁴⁸

303⁴²

5+36

320⁹²

900
044
C-8.56

7+51⁴⁸

306⁰¹

2391
1156
C-12.35

TP

11.85 346⁹⁹ 0.78 329¹⁴

5+11

322⁵³

18.46
960
C-8.86

7+49⁹⁸ EC

307⁰¹

2291
1156
C-11.35

4+86

324¹⁴

16.85
831
C-8.54

7+32²⁰

308¹²

2173
1196
C-9.79

4+61

325⁷⁵

15.24
742
C-7.82

7+15⁴² BC

309³⁴

2058
1172
C-8.86

BM

458

324²⁵

Wightman

0+00 E inlet SECOR 38th

313⁰⁰

FL

31967 NWBP 38th
Wightman $11 \frac{25}{16}$
C-6 09318⁷²
state $5 \frac{53}{16}$
C-3 77319⁵⁵
Tob4 $\frac{70}{16}$
FO 460+31⁸⁶312⁵⁰ $11 \frac{25}{16}$
4 77
C-6 76312
FL $12 \frac{25}{88}$ C-6 370+63⁷² E inlet SWCOR

Wightman

38th

318¹⁰
state $6 \frac{15}{88}$ C-0 27318²²
Tob $5 \frac{32}{88}$ FO 560-63⁷²341⁵⁰46 23
41 50
C-4 730-31⁸⁶341⁰⁰

0+00

340⁵⁰45.96
40.50
C-5 46 FL 18"

29

Dwight St

wo # 31506
32

	North					Dwight St			South			
	rough	Cb Elev	Cb	gut Elev	Gut	Elev	E	Gut Elev	gut	Cb	Cb Elev	Rough
1450	580 480 C10	332 ³⁶	332 ³² F0 ²³	331.86				331.65		331 ⁷² F0 ⁴³	332 ¹⁵	601 600 F08
1420	571 484 C02	332 ⁴⁰	332 ⁰⁸ F0 ³⁷	331.95				331.76		332 ⁰² F0 ²⁴	332 ²⁶	590 652 F06
0490	563 434 C12	332 ³⁸	332 ²⁶ F0 ¹⁷	332.03				331.88		332 ³⁴ F0 ⁰⁴	332 ³⁸	578 629 F05
0460	554 437 C12	332 ⁶²	332 ⁵² F0 ⁰	332.12				331.99		332 ⁴⁰ F0 ⁰⁸	332 ⁴⁹	567 613 F05
0430	546 449 C10	332 ⁷⁰	332 ²⁴ F0 ³⁶	332.20				332.11		332 ⁵⁹ F0 ⁰²	332 ⁶¹	558 603 F05
0405	BC South Prop lot			332.28				332.20		332 ²⁴ F0 ⁴⁶	332 ²⁰	544 552 F01
			332 ⁸³ end existing cb	332 ²⁸								
0400	East Prop Euclid - L Dwight -		332 ⁸¹ BC F0 ³⁵					332 ⁵⁴		332 ²⁴ F0 ⁴²	332 ²³ Mid Pt.	
0-05	North Prop lot		332 ⁶² F0 ¹⁸							332 ⁶⁷	332 ⁷² End existing cb	
				539				332 ⁷⁷				
	011		338 ¹⁶	1020				337 ²²				
BM	773		348 ¹²					340 ⁴⁶				

NWBP
Dwight
Euclid

NEBP
Lantana
Euclid

North

South

33

	Range	C ₆ EV	C ₆	Out _{EV}	Out	E EV	E	Out _{EV}	Out	C ₆ EV	Range
										329 ⁴⁵	974
								328.54		CO ₄₁ 329 ⁰⁴	691
4+71 ⁰⁷	9 ²⁰ 5 ⁸³ C 34	329 ⁵²	329 ⁴² FO ₃₉	329.03		329 ¹					C 28
								329.66		330 ²⁰ CO ₂₄	862 651
4+51 ⁰⁷	8 ¹¹ 5 ⁷⁴ C 24	330 ⁶⁷	330 ¹⁸ FO ₄₂	330.07		330 ²¹				330 ¹⁶	C 21
								330.37	✓	330 ⁵⁸ FO ₂₈	791 651
4+31 ⁰⁷	7 ⁴³ 5 ⁰⁰ C 28	331 ³⁵	330 ²² FO ₂₈	330.70		330 ²⁴				330 ⁸⁷	C 14
								330.65		331 ²⁶ CO ₄	763 637
4+11 ⁰⁷ Brk.	7 ¹⁶ 5 ²³ C 12	331 ⁶²	330 ²⁹ FO ₆₂	330.92		331 ¹⁸					C 13
								330.84		331 ⁴⁸ CO ₁₄	744 616
3+61 ⁰⁷	7 ⁰² 4 ⁴⁹ C 26	331 ⁷⁶	331 ⁶⁶ FO ₀	331.09						331 ³⁴	C 13
								331.03		331 ⁵⁶ CO ₀₃	725 650
3+11 ⁰⁷	6 ⁸⁷ 4 ²² C 23	331 ²⁴	331 ⁵⁴ FO ₃₇	331.29						331 ⁵³	CO ₇
								331.22		331 ⁹⁵ CO ₂₃	706 716
2+61 ⁰⁷	6 ⁷³ 4 ²⁷ C 25	332 ⁴⁵	331 ⁰⁶ FO ₁₉	331.47						331 ²⁸	FO _{4 A} 338 ²⁵
TP	7 ¹²	338 ²⁸			6 ⁵⁰	331 ⁶⁴					
2+11 ⁰⁷	5 ⁹⁷ 4 ³³ C 16	332 ¹²	332 ²⁰ CO ₁	331.65				331.41		331 ²⁰ FO ₁	625 697
											FO ₇
1+79 ⁸⁶ Brk L Pop	5 ⁸⁸ 4 ⁶⁷ C 12	332 ²⁸	332 ⁰⁰ FO ₂₂	331.78		331 ⁷⁶		331.53		331 ⁷² FO ₂₄	613 684
										332 ⁰³	FO ₇
											A
HJ	1	338 ¹⁴									H.I. 338 ¹⁶

	rough	cb	cb	North	Dist	ght.	cb	cb	South	rough
				LEV	E	LEV				

5750 ²⁰ BC North	14 02		324 ⁵³							
	975	324 ⁷⁶	F0 ²³	324.20						
	C-4 ³									

5739 ⁸⁷	14 04		324 ⁷²							
	860	324 ⁷⁴	F0 ⁰²	324.20					323 ⁹²	
	C-5 ⁴									

5719 ⁸² BC South	13 18		326 ⁰⁸							
	701	325 ⁶⁰	C0 ⁴⁸	325.10					325 ¹⁰	
	? C6 ²								324.50	
										325 ⁴⁴
										C0 ⁴⁴
										325 ⁰⁰
										13 78
										11 54
										C-2 ²⁴

4791 ⁰⁷ FVC	10 71		330 ⁴⁷							
	656	328 ⁰⁷	C2 ⁴²	327.57					327 ⁵⁹	
	C4 ²								327.07	
										328 ⁰⁷
										C0 ⁵⁸
										327 ⁵¹
										11 27
										8 77
										C-2 ⁵

11. 338⁷⁸

HE 338⁰⁸

Lantaing St.

	West			Lantaing St.			East			
	rough	at 210	at 205	at 210	at 210	at 210	at 210	at 210	at 210	
1+27 ¹² BC East						323 ⁶⁹			324 ⁴⁴	307
TP 2 ²⁷		326 ⁷⁹							323 ⁷²	973
1+07 ¹²		324 ⁹⁸	324 ⁴⁵	324 ⁴¹	1169	324 ⁵²				326 ⁷⁹
		Mid PT	FO50	FO57					325 ¹⁵	
0+94 BC West	1027		324 ⁸⁵						CO32	324 ⁷⁶
	708	325 ⁴⁴	FO59 ⁹			325 ²⁴			325 ⁶⁰	1077
	C-37								CO16	1330
										F-251
0+59	878		327 ²⁰						328 ¹⁴	826
	429	327 ⁴³	FO23						CO89	1209
	C-45									F-31
0+24	679		329 ³⁰	329 ¹⁸					329 ⁶⁴	714
	163	329 ⁴²	FO12	FO24					CO57	644
	C-52									CO? ?
0+10 ⁵⁴ BC East		330 ¹¹	331 ⁰⁶	330 ⁷¹					331 ⁷⁹	533
		FC	CO29	G					CO21	419
										C12
0+10 ²⁰ Subline	481									
	344	331 ⁴⁰								
	C14									
0+00 ² Subline						331 ⁵³				
0+01 ⁵⁰ FC East									332 ⁰⁴	331 ⁵²
									CO52	FC
0-10 ²⁰ East Subline										421
										395
										C-D3 ?
TP off page back	718	336 ²¹								
				925	329 ²³					

note: 5/26/20

West

East

36

rough	cb Elev	cb	3rd cut	cut	Elev	E	cut Elev	cut	cb	cb Elev	rough
-------	------------	----	------------	-----	------	---	----------	-----	----	---------	-------

BM starting

542 340 48 ✓
340 48

staked on cb ent
318x229 South & 84y
Wly inlet cb 322¹³ 321⁸¹
F0³²

gut 321⁸¹ 321⁸¹
C0³⁰ 321⁸¹
FL 314⁶⁰ C7²¹

TP

6²⁵ 345⁹⁰ 382 339⁶⁵

Ely inlet cb 321⁶⁶ 322¹⁰
gut 321⁰³ C1⁰²

TP

6¹⁷ 343⁴⁷ 076 337³⁰

FL 312⁶⁰ 322¹⁰
C9⁵⁰ 322¹⁰

TP lack

9⁰³ 338⁰⁶ 329⁰³

south
0+32 302⁵⁵ 307⁶⁸
s'n's'n FL 291¹¹
0+64 Headwall 292⁵⁰ F1³⁸

1+75¹³⁶ End

4²⁵ 322⁰⁴ 321⁸¹
2⁶¹ F0²³ 321⁵⁹
C-21

322¹⁰ 5²⁵
C0⁵⁶ 321⁵⁴ 12⁴⁷
F-7²

1+5'8⁶⁰ PREC west

4¹⁰ 322⁰² 322²¹
2¹⁹ F0⁶⁷ F0⁴¹ 5'6" 322²¹
C-12

322³⁷
C0¹⁸ 322¹⁹

324⁰⁶ 323⁹⁴ 323⁶⁷
w 1/2 Net F0¹² F0³⁹

323²¹ 322²¹
s 1/2 Ret F0⁵⁶

1+47¹²

322⁶⁵

322⁵⁸
F0⁰⁵ 322⁶³

AI 326⁷⁹

HI 326⁷⁹

D. Smith C. Allen Nick H. Brunner		Grades		For Gresham St			Pacific Beach Dr to Graham			W 31640 37	
5' x 8' Prox rough		cg grade elv	cb	Gutter	1/4	E elv	1/4	Gutter	cb	west cb grade elv	dist rough
2120	80 <u>5.0</u> C30	19.80	19.46 FO34						18.27 FO33	19.10	8.6 9.1 FO5
1780	7.8 <u>4.5</u> C33	20.00	19.71 FO29						19.07 FO23	19.30	8.5 9.1 FO6
1740 BxK	7.6 <u>4.6</u> C30	20.20	19.95 FO25	19.50		19.75		19.00	19.07 FO43	19.50	8.3 8.5 FO2
1720	7.5 <u>4.7</u> C28	20.31	20.02 FO29	19.61		19.86		19.10	19.21 FO32	19.60	8.2 8.4 FO2
1700	7.3 <u>4.7</u> C26	20.45	20.4 FO34	19.75		19.98		19.20	19.41 FO29	19.70	8.1 8.1 C
0780	7.2 <u>5.0</u> C28	20.61	20.35 FO26	19.91		20.11		19.30	19.58 FO22	19.80	8.0 7.4 COE
0760 BxK	7.0 <u>4.8</u> C22	20.80	20.56 FO24	20.10		20.25		19.40	19.81 FO09	19.90	7.9 6.8 C11
End Ref. 0710	6.5 <u>4.7</u> C18	21.30	20.92 FO38	20.60		20.63		19.65	21.39 C124	20.15	7.6 6.8 C1.8
Sho Pacific Beach Dr 0700		21.40	21.45	20.79		20.54		19.66	20.26	20.20	
HI 2778											
BM						21.19	NW 3 P Pacific Ocean				HI 2778

518R App rough	East Cb grade	cb	Gutter	Y4	Gutter	cb	West Cb grade	518R App rough
4725 4709	1320 COE 1298	1237 FO36 1306 FO23	1193	1203	1132	1154 FO28 1227 FF024	1358 C18 1228 1251	1358 C18 1228 1359 C17
4700 BVC 2773	1394 CO2 1402	1435 FO34	1399	1413	1345	1369 FO26	1395 1434	1521 C13 63 52 C12
3750 3735	56 58 CO5 1541 CO7 56 50 CO6	1587 FO22	1539	1564	1489	1503 FO36	1539	52 43 CO2
EVC 3700	45 41 CO4	1640 FO22	1539	1617		1562 FO30	1592	47 ⁰²⁰ 31 ⁰¹ C16
2780	40 361 CO4	1682 FO25		1662		1601 FO36	1637	42 ⁰²⁰ 27 ⁰¹ C15
2760	35 30 CO5	1726 FO19		1700		1627 FO48	1675	32 ⁰²⁰ 21 ⁰¹ C18 H12061
2740	32 25 CO2	1760 FO14		1729		1674 FO30	1704	67 ⁰²⁰ 52 C15
HI 2061	60 52 CO8	1765 FO32		1752		1708 FO19	1727	65 53 C12
2700	59 47 C12	23.76T 1762 FO48		1765		1710 FO30	1740	64 44 C22
1780 BVC	57 45 C12							

S. Bk rough	East		Gutter	1/4	2	1/4	Gutter	West		S. Bk rough
	Cb grade elv.	Cb Plans						Cb grade elv.	Cb grade elv.	
								574 CO ⁰⁴	590	C15 744
								609 CO ⁰¹	537	C21
S. Graham 6780								574 FO ⁵²	#, 6.26	C3E
	707 CO ⁰²									744 C10
BC net 6765 Brk	71 C14	690 570	670 FO ²⁰	620 600		640	525	691 FO ⁴⁴	645 500	C25
6745 Brk							557			
									604	
6728	83 C16	674								82 C21
6750	750 CO ⁰³	725 744	708 FO ¹⁷	655		691	627	664 FO ¹³	604 677	829 C13
5792	900 C12	84 778							708	98 C17
5700	884 CO ⁰⁴	841 907	794 FO ⁴⁷	771		790	728	765 FO ¹³	728	903 C13
5755	102 C14	882							812	102 C12
5750	elv. rod 1032 C08	957 1071	912 FO ⁴⁵	887		904	841	859 FO ³²	891	1002 C12
5719	108 C14	786							916	115 C13
5700	1129 EVC C13	1071 1132	1041 FO ³⁰	1021		1016	750	961 FO ³⁹	1000	1134 C13
4702	97 C13	1090							1020	104 C13
4775	124 CO ⁰³	1133	1109 FO ²⁴	1063		1074	1026	1021 FO ³⁵	1056	1190 C13
4746	86 CO ⁰⁴	1194							1124	84 C14
4750	1241 CO ⁰⁵	1196	1166 FO ²⁹	1125		1139	1066	1077 FO ³⁹	1116	1268 C13

TP ELV 1069 50

	5' BHP rough	cb grade elv.	South cb	Grades for Graham cut elv	1/4
Riviera 30 Met W Prop 0700		9.46		9.00	
	9.66 FOL	8.81			
0740	8.7 7.60 FOL	8.65		8.15	
	7.70 FOL	8.08			
0785	7.75 6.22 F.1	7.75			
	6.2 FOL	7.36			
1730	6.85 6.29 FOL	6.85			
	6.7 FOL	6.63			
1775	6.95 5.93 Grade	6.95			
	5.9 C-2	5.90			
2720 E Prop Graham to Act.	5.94	5.94		4.54	
		4.67		4.17	
2740	6.57 C-1	5.26			
	6.2 C-2	4.34		3.84	
2760					
		4.07		3.57	
2780	3.49				
	3.5 F23	4.62			
3700	3.84	3.84		3.34	
BM.					10.08

Gresham to Riviera Pt.			cb	North cb grade elv.	5' BHP rough
£	1/4	Gutter elv.			
9.35		9.37		9.95	10.50
				9.23	C-13
8.80		8.65		7.75	7.75 C-4
				8.42	8.68 C-03
				8.25	8.25 C-05
				7.61	7.51 FOL
				7.35	7.35 C-4
					6.98 C-02
				6.81	6.90 C-05
				6.44	6.44 C-1
				6.00	7.1 C-15
5.19		5.04		5.54	
					Storm Drain
					4.09
					725 N 8 pipe cb 2.49
					3.26
					grate 4.54
					725 S 2 pipe Fh 6.58
					0.85
					6.33 R
					0745 SN end pipe = 1.50
					Fh = 0.44
					C-104

F236
 elv cb 590
 elv grate 507 354
 F153

7' West Riviera
 Prop North Graham

Grades. Fox

Graham - Graham To Rivera Dr

	5' back Prop Rough Gr.	Curb Grade elev.	South Curb.	GUTTER elevation	1/4	1/4	GUTTER elevation	Curb elevation	North Curb Grade	5' back Prop Rough Gr.
Rivera 130. Meet W. prop		9.45	948	898			935			
0+00		9.45							9.95	
0+40	866 FO3	8.96	876 FO20	846			906	887	9.37 CO29	1050 C/L
0+85	760 FO8	8.41	824 FO17	791			846	822	8.72 FO16	868 Grade
1+30	622 FO6	7.86	764 FO22	736			786	756	8.06 FO22	757 FO5
1+75	629 FO5	7.31	712 FO19	681			726	691	7.41 CO01	698 FO9
2+20 - E. prop Graham Eg. Return	593 FO8	6.75	678 CO03	625			665	625	6.75 CO14	707 CO2
2+40										
2+60	637 CO1	6.28	635 CO07					NE Ret. #3 6.79	6.79 CO09	
2+80								#2 6.73	6.70 FO03	
								#1 6.80	6.77 FO37	
3+00	349 FO23	5.81	412 FO48							
BM.										
			7' West Rivera No. Prop Graham				2+T. 10.08			

West
S' BK unless
Noted

£

East
S' BK unless
Noted

6400⁶² South Prop handis

348¹⁰

347²⁰

5780

C-1³¹

349²²

351.10

349⁴²

350²¹

C-0⁷²

5760

C-0²⁹

350⁸⁶

351¹³

350⁵⁶

350⁵⁷

C-0⁰¹

D. Smith
C. Allen
R. Shepard
Mick
1+55

Stake Alley B/K

175 City Hts
lt-west E

wo# 31852 45
Rt East 7-18-51

278⁸³
C-033 278⁴⁸

278⁷⁸ 280²⁷
C-152

1+225

277⁸⁸
F022 278¹⁰

(X) 0.20 in
278⁴⁰ 280²⁸
C-188

0+90 EVC

277⁵⁶
F016 277²²

280⁶²
278⁰² C265

0+70

135 BK nail
278⁴⁷
C-130 277³⁷

280⁶²
277⁶⁷ C30R

0+50

277⁵⁷
C080 276⁷⁹

145 BK
277⁰⁹ 281¹² nail
C-405

0+30

276⁴⁴
C047 275²⁷

132 (X) BK
276²⁷ 279²⁰
C-343

0+10

275⁵⁶
C-083 275⁰⁴

146 BK
275²⁴ 278⁰⁸ nail
C-295

0+0.0 N. Prop Lincoln

318X 274⁸⁵
C024 274⁴⁴

215 (X) BK
275⁰⁷ 276⁹⁴
C-187

0-05 end existing ob 2 AC

273²¹

275⁰²

used tape
elv rod.

TP.

8¹⁷

276⁷⁹

BM

0³⁵

284⁹⁶

284⁴¹

NW 1/4
Lincoln
Alabama

4+60

278⁸⁷
F0²³ 279¹²

46
mail
122⁸⁷
283⁰⁵
279⁴² C3⁶⁶

4+20

031 BK mail
280⁸⁷
C-1⁶³ 279²⁴

005 BK
mail
281²⁴
C1²⁰
279⁵⁴

3+80

051 BK mail
279³⁵
C0⁵⁹ 279³⁶

280⁵⁹
C0⁹³
279⁶⁶

3+40

084 BK
279⁸⁷
C-0³⁹ 279⁴⁸

280⁴¹
C0⁶³
279²⁸

3+00 EVC

279¹⁹
F0⁴¹ 279⁶⁰

281⁰⁵
C1¹⁵
279²⁰

2+80

279⁵⁴
F0⁰⁶ 279⁶³

280⁷⁸
C0⁸⁶
279⁹²

2+60

081 BK mail
280²⁷
C0²⁰ 279⁵⁷

280²⁸
C1¹⁴
279⁸⁷

2+40

080 BK mail
279²³
C0²⁸ 279⁴⁵

280⁴²
C0⁶⁷
279²⁵

2+20 BVC

087 mail
279⁹²
C0⁶⁷ 279²⁵

079 BK
280⁵⁴
C0⁹⁹
279⁵⁵

1+875

278⁶⁷
F0¹⁹ 278⁸⁶

282¹⁵
C-2⁹⁹
279⁶⁶

6000^{2k} South Prop Polk

5780

5740

5700

✓
27842

026 BK
279⁵³
C079 278⁷⁶

1BK
278⁰⁵
F0⁸³ 278⁸⁸

021 BK
279²²
C0⁹² 279⁰⁰

✓
279³⁰

279⁰⁶ 280⁸⁷
C1⁸¹

279¹⁸ 280⁵⁸
C1⁴⁰

279³⁰ 1BK
280³⁰
C1⁰⁰

D. Smith
R. Shepherd
Vick
W. D. H. man

Rough

West
C6 Grade

Stake 51st St

C6

Polk to Orange

E

East No # 31503 48

C6 C6 Grade Rough

INDEXED

Law
MAR 25 1952

2+00

23²⁵
FO¹

323⁸⁹

24¹²
C6²³

24²³
FO¹³

324³⁶

26²¹
C1²

1+60

23⁵³
CO²

322⁸⁶

23¹²
CO²⁴

23²⁷
FO⁰⁶

323³³

25³⁰
C-2⁰

1+20

2¹⁰
22¹⁸
CO⁴

321⁸³

21⁹⁷
CO⁴

22²⁷
FO⁰¹

322³⁰

23⁴
C1³

E.V.C. 14
0+80

22⁶⁴
C1⁸

320⁸⁰

20⁹³
CO¹³

321⁰²
20⁶⁹

21³⁷
CO⁴

321²⁶

21³⁰
CO⁵

0+60

22⁵⁹
C2⁵

320³⁵

20⁶²
CO²⁷

320⁵³
20³⁰

20²⁵
G

320⁷⁵

21¹⁸
CO⁴

0+40

23²⁵
C3²

320⁰³

21¹¹
G1⁰⁸

320¹¹
19⁷⁸

20¹⁸
FO⁰⁵

320²³

20⁵⁴
CO³

0+20

319⁵⁷

19⁸¹
CO²⁷

319⁷²
19³⁹

19⁵⁹
CO³¹

319³⁸

0+05⁸⁰
Rel.
29° 58'

22⁵⁰
C3²

319⁵⁰

19⁹⁴
CO⁴⁴

318⁹⁰
18⁵⁷

19⁴²
CO²²

319²⁰

19⁸⁹
CO⁷

BM

319⁶² 1/4 cor Mon
52nd Polk

		West		£	East 49		
	Rough	C6 Grade	C6		C6	C6 Grade	Rough
5700	3074 C-03	330 ⁵⁵	3062 C-027	330 ⁸³ 30 ⁵⁰	3105 F-015	331 ²⁰	4394 C-122
4780	3035 F-02	330 ⁵⁰	3050 G	330 ⁷⁵ 30 ⁴²	3077 F-031	331 ⁰⁸	4393 C-128
4760	3069 C-04	330 ²¹	3031 G	330 ⁵⁴ 30 ²¹	3082 F-003	330 ⁸⁵	4228 C-114
4740	3040 C-04	330 ⁰⁰	3014 C-017	330 ³¹ 29 ⁸⁸	3070 C-019	330 ⁵⁷	4093 C-104
4720 ^{B.V.}	2914 F-04	329 ⁵⁵	2984 C-029	32976 2943	3023 C-018	330 ⁰⁵	3876 C-87
4700	2818 F-02	329 ⁰⁴	2941 C-037		3002 C-049	329 ⁵³	3597 C-64
3760	2805 G	328 ⁰¹	2830 C-029		2843 F-007	328 ⁵⁰	3253 C-40
3720	2705 C-01	326 ⁹⁸	2725 C-027		2756 C-010	327 ⁴⁶	3101 C-36
2780	2517 F-08	325 ⁹⁵	2608 C-013		2685 C-042	326 ⁴³	2899 C-24
2740	2497 F-04	324 ⁹²	2497 C-025		2521 F-019	325 ⁴⁰	2735 C-20

Rough

West
C6Grade C6

£

East 50-

C6 C6Grade Rough

S. Prop. Orange
5777

30⁰⁴

330⁰⁴

330³⁰
29⁹⁷

331⁰⁴

31⁰⁴

5757

30⁰⁵
FOL

330¹⁹

30¹⁹
G

330⁶¹
30²⁸

30⁷³
F0²⁷

331¹⁰

41⁰⁵
C-10⁰

5720 E.V.C.

30⁵⁶
C-0¹

330⁴¹

30⁶⁰
C0¹³

330²⁹
30⁴⁶

30⁶²
F0⁵⁸

331²⁰

43⁶⁴
C-12⁴

Stake Reed				Gresham to Ingraham		Watt 31601 5'		
Rough	North C6 grade	C6 stake		£	6" CI water Main	South C6 stake	C6 grade	Rough
2+15'	3562 C14	3420	3400 FO20	3378	3381 29.98 C383	3348 FO22	3370	3383 FO2
1+95'	3446 C02	33.82	3350 FO32	33.40	3353 29.60 C383	3368 C036	33.32	3303 FO3
1+75 ^{BVC}	3431 C08	33.57	3323 FO34	33.15	3315 29.35 C380	3348 C041	33.07	3235 FO1
1+33 ²⁵	3383 C06	33.21	3283 FO38	32.78	3245 28.98 C347	3350 C079	32.71	318 F15
0+92 ⁵⁰	3321 C04	32.84	3223 FO41	32.41	3218 28.61 C357	3299 C065	32.94	3100 F13
0+57 ²⁵	3331 C02	32.47	3205 FO42	32.04	3198 28.24 C374	3249 C058 <u>37</u>	2.12 31.77	3135 FO6
0+30				31.86	3154 28.06 C348			
0+10 ^{RC}	3324 C12	32.10	3222 C012	31.55		3206 C044 <u>16</u>	90 31.60	310 FO4
0+00 ^{Fly Gresham}		32.00	3246 C046	31.38	3146 27.58 C388 make.com	3171 C021 <u>FO09</u>	80 31.50	
							3175 inlet end Tab	

BM

3315

NE Prop Pipe
Gresham
Reed
FB 1246, 54

	Rough	Grade	North C6 Stake	2	South C6 Stake	Grade	53 Rough	
3730	4946 C32	45.58	4593 C035		41.34	46.37 C-503	4520 C012	4835 C-33
2790	4884 C32	45.82	4569 F013		41.59	46.70 C-511	4521 F021	4792 C22
2750	4838 C23	46.06	4587 F019		41.83	46.28 C-445	4544 F012	4763 C21
2710	4806 C-18	46.30	4618 F012		42.07	46.64 C-457	4569 F011	4737 C-15
1770	4737 C-02	46.54	4620 F034		42.31	46.65 C-434	4588 F016	4702 C12
1730	4758 C08	46.78	4654 F024		42.56	46.73 C-417	4607 F024	4691 C06
0790	4783 C08	47.02	4679 F023		42.80	4680 C-400	4629 F032	4744 C02
0750	4815 C02	47.26	4718 F028	46.84	43.04	46.39 C-335	4636 F040	4741 C02
0710		47.5 ⁵⁹	4723 F036	47.08			4644 F056	47.00
0700 Ely Haines	4767 06	47.56	4747 06	47.10	43.30	4665 C-335	4702 C6	4709 C6

Rough

North
C6 grade
C6
stroke

2

South
C6
stroke
C6 grade
Rough

54

BM

4415 2 L + T Reed
Ingraham

4416

F069

Ret end North

44.85

~~4462~~
F023

13.3°

Ret end South

44.45

4444
F001

13.2°

4400

44.00

4499 ⁵⁰ w/ Ingraham

4625
C-23

44.50

4421
F029

43.83

40.03

43.51
C-352

4321
F029

44.00

4565
C-17

4490 BC

44.60

4429
F031

44.18

40.62
4465
C403

4327
F033

44.10

4450

4782
C-30

44.85

4452
F033

40.86
4566
C-480

4441
C006

44.35

4683
C25

4410

4907
C40

45.10

4527
C017

41.10
4641
C-531

4476
C016

44.60

4754
C22

3490

4944
C-42

45.34

4533
C021

4507
C023

44.84

4829
C35

North Stake Oliver Haines to Ingraham W[#] 31601

South 55

	Rough	Cb grade	Cb	Σ	Cb	Cb grade	Rough
1780	45.83 FOL	45.94	45.75 FOL	46.10	46.14 FOL	46.40	47.80 C14
1760	45.37 FOL	45.47	45.28 FOL	45.61	45.67 FOL	45.90	47.16 C13
1740	45.24 C02	45.04	44.96 FOL	45.17	45.09 FOL	45.44	46.74 C13
1720	44.95 C03	44.67	44.62 FOL	44.78	44.84 FOL	45.03	46.46 C14
1700	44.65 C03	44.34	44.19 FOL	44.36	44.48 FOL	44.68	46.07 C14
0780	BVC 44.36 C03	44.05	44.04 FOL	44.12	44.14 FOL	44.34	45.74 C16
0745	44.10 C05	43.59	43.80 C021	43.59	43.70 FOL	43.75	45.47 C18
0710	FC	43.13	43.19 C006	43.07	43.07 FOL	43.16	
0700	ELY Haines Cb end 43.03	43.00		42.71		43.00	43.12 Cb end

BM

47.36

Con Men
Σ Oliver
W 7' Ingraham

	Rough	North C6 grade	C6	£	South C6	C6 grade	South 56 Rough
4400	50.88 C04	50.79	50.68 F04	50.80	51.22 C006	51.16	53.4 C22
3480	50.71 C04	50.83	50.60 F023	50.96	51.24 G	51.24	53.42 C22
3460	50.46 F03	50.71	50.47 F024	50.86	51.02 F044	51.16	53.40 C22
3440	50.18 F03	50.45	50.40 F005	50.62	50.64 F029	50.93	53.24 C22
3420	49.74 F03	50.04	49.83 F021	50.22	50.33 F021	50.54	52.90 C24
B.V.C. 3400	49.08 F04	49.49	49.40 F009	49.67	49.28 F021	49.99	52.11 C22
2470	48.41 F04	48.55	48.28 F027	48.73	49.04 F001	49.05	51.31 C22
E.V.C. 2440	46.91 F02	47.61	47.63 C002	47.79	48.01 F010	48.11	50.11 C20
2420	46.68 F03	47.00	46.63 F037	47.18	47.39 F04	47.50	49.16 C12
2400	46.16 F03	46.44	46.17 F022	46.61	46.22 F021	46.93	48.36 C15

North

South

57

Rough

Cb grade

Cb

E

Cb

Cb grade

Rough

Retend

48.05

47.39
FO64

47.36

47.35
FO52 FO60

47.95

13³⁶Ret
13³⁶

48.29

47.29
FO5047.86
47.80
FO40 FO46

48.26

W/4 Ings. 48.72
4799¹⁶
G

48.70

48.02
FO68

48.46

48.08
48.18
FO62 FO52

48.70

51.45

C2E

BC
4789¹⁶

48.98

48.66
FO32

48.93

48.27

48.55
FO47

49.02

EVC.
476048.87
FO2

49.80

49.59
FO21

49.81

FO75
49.43
49.88
FO29
FO54

49.97

52.37

C2H

4740

51.08
COE

50.28

50.48
CO20

50.33

50.54
CO02

50.52

52.55

C2D

4720

51.42
COE

50.61

50.73
CO14

50.69

51.17
CO26

50.91

53.25

C2E

Smith Stake 385' Sewer - 5472 + Laurel
 Allen W.O. # 62227 - Aug 15, 1951
 Korer
 Othman

58

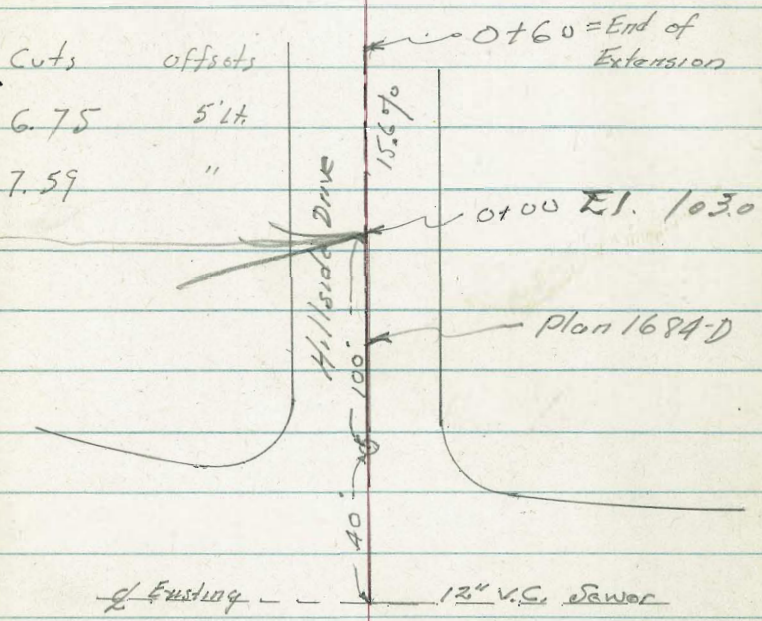
	INV. EL.	Stake	COT	INV. EL.	Stake	COT.
2+30	267.50	275.06	C-7.56			
				Check - diff - 22.33 west Pt. @ 0+22.90		
2+05	266.68	274.15	C-7.47	on skyline Laurel extended. FB-2035, PPS2		
				FL - 267.20 .04 high		
1+80	265.85	273.23	C-7.38			
				Direct elevation Red.		
1+55	265.03	272.03	C-7.00			Elev = 277.89
				BM = Brass plug in pvt. S.E. Cor. Blackton #54		
1+30	264.20	271.43	C-7.23			
1+05	263.38	270.78	C-7.40	3+85 (DE) 270.54	278.56	C-8.02
0+80	262.55	269.61	C-7.06	3+45 - 270.26	277.59	C-7.33
0+55 = MH#1	261.73	268.82	C-7.09	3+05 (MH#2) 269.98	276.85	C-6.87
0+27.5	261.35	267.58	C-6.23	2+80 - 269.15	276.09	C-6.94
0+00: 220'	EX MH. 260.96	266.88	C-5.92	2+55 (R) 268.33	275.64	C-7.31

GRADES For Sewer Extension

177 Hillside Drive
 Walker 2-27-52
 Pope
 Huffman
 Bishop

NO 20009

			Invert	Cuts	offsets
0+60	2.56	119.11	112.36	6.75	5'lt.
0+30	6.40	121.67	107.68	7.59	"
0+00			103.00		

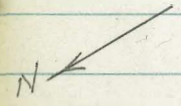


TORREY PINES ROAD

INDEXED
Law
 MAR 25 1952

13.67 116.67 103.00

B.M.
 Elev. Invert Pkg end



	20 94t 72 ⁰⁴ 641	185 edge 1/4 70 ¹⁸ 72 ²⁷	105 RT, West 31 edge 94t 71 ¹⁵ 700 ³⁹	33 94t 71 ⁴⁵ 70 ⁰⁶	3700	LT 20 edge 94t 74 ⁰⁶	16 1/4 74 ²²	105 1/4 74 ⁶⁵	37 edge 94t 73 ⁸⁹	33 94t 73 ²⁰	65 74 ²³		
1725		627	528	627	683	700 ³⁹	439	423	380	422	456	465	422
							73 ²¹	73 ⁹³	74 ³⁵	73 ⁹¹	72 ⁵⁸	73 ⁴⁵	72 ⁹³
1400	71 ²⁴ 671	721	72 ³⁴ 654	71 ⁸² 663	71 ³¹ 714	71 ¹⁵ 730 ¹²	2175 469	452	410	454	487	426	452
							73 ⁴²	73 ⁵¹	74 ⁰⁴	73 ⁶¹	73 ²⁹	73 ¹⁴	73 ⁵⁷
0475	71 ⁴⁵ 700	71 ⁶³ 682	72 ⁰² 673	71 ⁵¹ 624	70 ⁹⁸ 742	70 ⁸⁶ 759 ⁰¹	2150 503	484	441	484	516	531	486
							73 ¹¹	73 ³²	73 ¹¹	73 ³⁰	72 ⁹⁴	72 ⁹¹	73 ²⁷
0450	71 ²³ 722	71 ³⁵ 710	71 ¹⁷ 628	71 ²¹ 724	70 ⁶⁸ 722	70 ⁵³ 722 ¹³⁸	2125 534	513	474	545	551	564	518
							72 ⁸³	72 ³²	73 ¹¹	73 ³⁰	72 ⁹⁴	72 ⁹¹	73 ²⁷
0425	71 ¹⁹ 724	71 ¹⁷ 728	71 ²⁵ 730	70 ⁹⁰ 755	70 ³⁴ 802	70 ²⁰ 825 ¹⁶⁶	2100 562	547	502	543	522	528	546
							72 ⁸³	72 ⁹⁸	73 ⁴³	73 ⁰²	72 ⁶⁶	72 ⁴¹	72 ²²
0400 BC Midway	70 ⁶⁸ 777	70 ⁶² 785	70 ⁶¹ 785	70 ⁴⁹ 796	69 ⁹⁸ 842	69 ⁹⁰ 855 ⁸⁰¹	1475 590	527	530	526	615	632	584
							72 ⁵⁵	72 ⁶⁸	72 ¹⁵	72 ⁴⁹	72 ³⁰	72 ¹³	72 ⁶¹
TP	3 ⁸²	78 ⁴⁵	753	74 ⁶³			1450	528	552	600	650	668	611
BM.	293	82 ¹⁶	78 ²³					72 ²⁶	72 ⁹³	72 ⁴⁵	71 ⁹⁵	71 ²⁷	72 ³⁴

NEXT
Column
La Jolla Blvd

78⁴⁵

edge
cont
13
406

	20 Sut	LT	165 2/4	165 1/4	31 edge Sut	33 9ut		77.51	77.54	77.76	77.80	77.12	76.27	66 77.32
TP	3.29	80.26	148	76.97	76.19		6100	3.45	3.42	3.21	3.56	3.84	3.22	3.64
4743 BC NW Colima	75.20 2.67	75.27 2.48	76.00 2.00	76.04 2.41	75.04 2.51		West South 80 Colima	77.41 3.55	77.49 3.47	77.96 3.00	77.57 3.39	77.25 3.51	77.32 3.64	77.27 3.43
4725	75.53 2.92	75.25 2.20	76.21 2.34	75.82 2.63	75.69 2.24		End of Sut Colima	76.21 4.05	77.12 3.84	77.62 3.34	77.49 3.38	77.26 3.20	77.07 3.29	77.47 3.42
4700	75.21 3.24	75.25 3.00	75.92 2.53	75.51 2.24	75.33 3.12		South 4 Colima	76.71 4.20	76.26 4.00	77.41 3.55	77.83 3.53	77.26 3.20	77.03 3.13	
3795	74.89 3.56	75.11 3.34	75.60 2.85	75.16 3.20	74.95 3.50			76.55 4.41	76.80 4.16	77.22 3.74	77.21 3.20	77.57 3.39	77.57 3.17	
3750	74.42 3.83	74.82 3.58	75.28 3.12	74.81 3.64	74.59 3.86		1/2 North Colima	76.27 4.59	76.58 4.38	77.00 3.97	77.00 3.96	77.28 3.60	77.53 3.43	
3725	74.21 4.13	74.41 3.94	74.97 3.48	74.58 3.87	74.28 4.12		End of Colima	76.14 4.82	76.83 4.63	77.74 4.20	77.18 4.33	76.53 4.43	76.54 4.28	76.29 4.67
			78.45							80.96				

7775	812 72.84 73.72 72.85	811 72.85	802 72.84	803 72.93	781 72.15	823 72.23	830 72.55	825 72.51	10+20	517 59.85	504 59.82	505 59.81	476 70.10	517 59.69	542 59.84	513 59.23
7+50	724 73.72 73.57	737 73	726 73	721 73	685 74.01	745 73.50	726 73.20	721 73.05	775	460 446	448 70.26	450 70.36	422 70.64	451 70.35	487 59.89	457 70.29
7+25	660 74.36	7414 74.14	7428 74.28	7432 74.32	74.61	747 74.7	7384 73.84	7357 73.57	9+30	383 410	70.26	70.20	70.89	71.15	70.11	70.88
	684	668	664	635	684	72	729	729	410	396	392	321	415	438		430
7+00	606 74.20	7486 74.86	7496 74.96	7486 74.86	7535	7481 74.81	7485 74.85	7422 74.22	70	7136 311	311	7486	921	7175		7175
	610	600	610	561	602	650	663	663	8185	960 972	958	961	926	967	996	987
	7533 75.33	7535 75.35	7542 75.42	7536 75.36	75.88	7554 75.54	7488 74.88	7480 74.80	7209	7192	7199	7202	7254	7201	7183	7100
6+83	561	549	560	508	542	608	614	614	8435	904	887	894	862	890	914	928
	33	31	165	165	31	33	33	33	8124	7204	7209	7202	7254	7201	7183	7100
6+50	422 33	428	410	467	521	542	542	542	8125	890	826	825	852	888	904	918
	7708	7713	7725	7624	7616	7602	7682	7682	8224	7204	7209	7201	7244	7208	7192	7178
6+25	388	383	371	421	450	494	499	499	8224	826	825	852	888	904	918	928
	20	165	165	31	31	33	33	33	8224	890	826	825	852	888	904	918
				8026					8100	in alley	833	812	852	866	880	845
									33	31	165	80	966	21	33	135

67

0680
SEGA
Columbia
Cement
base
134/40

North 1/2
Cov
Road

33
1/2
Cement
base
135

Cement
base
135

12+46

TP

11494

11463

11413

10+95

10+65

210 East 8
 592 592 560 594 606
 561 7486
 600 557 603 621
 628 64 598 581 611
 625 605 576 641
 605 594 583 569 623
 570 556 562 527 571 593
 33 31 165 165 23

7486

47-East 8
 572 68 69 70 76 77 78 79 80
 14196 612 587 579 525 622
 14771 588 557 527 522 624
 14146 608 558 574 522 605
 13196 588 524 522 522 552
 13146 560 572 545 526 522
 12194 525 583 548 600
 33 165 165

7486

68

17+15	6926	6925	6924	6923	6922
16+65	6910	6909	6908	6907	6906
16+43 ^{inlet}	6912	6911	6910	6909	6908
16+10 ^{oc}	6911	6910	6909	6908	6907
15+80	6907	6906	6905	6904	6903
15+46	6907	6906	6905	6904	6903
15+21	6907	6906	6905	6904	6903

20+03	7120	7119	7118	7117	7116
19+63	7080	7079	7078	7077	7076
19+23	7006	7005	7004	7003	7002
18+83	7089	7088	7087	7086	7085
18+43 ^{oc 14}	7025	7024	7023	7022	7021
18+15	7050	7049	7048	7047	7046
17+65	7015	7014	7013	7012	7011

17+80

71/86

TP

354
71 32

70 28

70 86

70 27

300

71 51

71 26

71 29

T.P 06

014 End

71 31

71 25

20122 EC

408

400

389

334

360

355-3

33

31

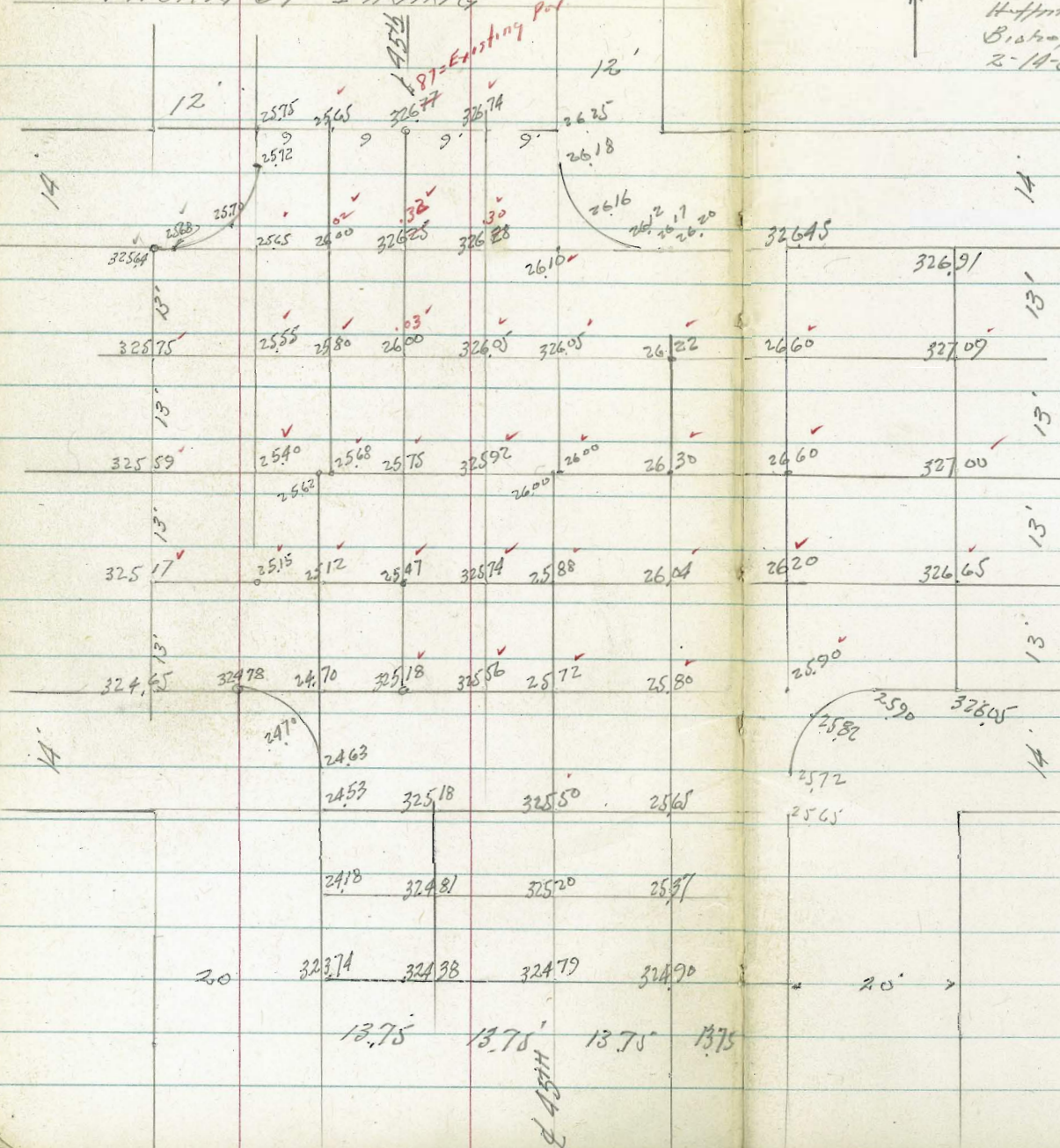
7486

45TH Street
And THORN ST PAVING



Walker
Pope
Huffman
Bishop
2-14-52

NO 31751 21
PLAN 8721
8722 L



THORN ST
Cont. P-72

45TH

Get 1/4 2 Get

1+43	^{.18} 3021	^{.29} 3026	^{.02} 3026	^{1/4} ^{.70} 29.65	^{.13} 29.03
------	---------------------	---------------------	---------------------	-------------------------------------	----------------------

1+73

Left out this row

1+24	2985	2986	2965	2923	2860
------	------	------	------	------	------

1+12	^{.60} 2985	2960	2939	2896	2833
------	---------------------	------	------	------	------

Alley

0+88	^{.91} 32886	^{.03} 2900	2887	2896	2780
------	----------------------	---------------------	------	------	------

0+63

2726

0+57	^{.23} 32847	^{.35} 2832	2820	2780	32711
------	----------------------	---------------------	------	------	-------

THORN

0+265	^{.91} 32746	32765	32754	32712	32641
-------	----------------------	-------	-------	-------	-------

0100	32691	2709	2700	2665	32605
------	-------	------	------	------	-------

L. Hunt

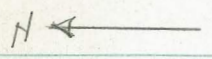
21516 \times Int. Cont P- 74

2135 23196[✓] 3213[✓] 3204[✓] 3169[✓] 3108[✓] 2135

TP 3112

2105 3139[✓] 3153[✓] 3140[✓] 3103[✓] 3091[✓]

1474 3088⁷⁷ 3089[✓] 3079⁷⁶ 3034⁴⁰ 2972⁸⁰



0700

25.7

9'

9'

9'

9'

26.5

CHAMOUNE

CHAMOUNE

RT 35
D-73

14'

13

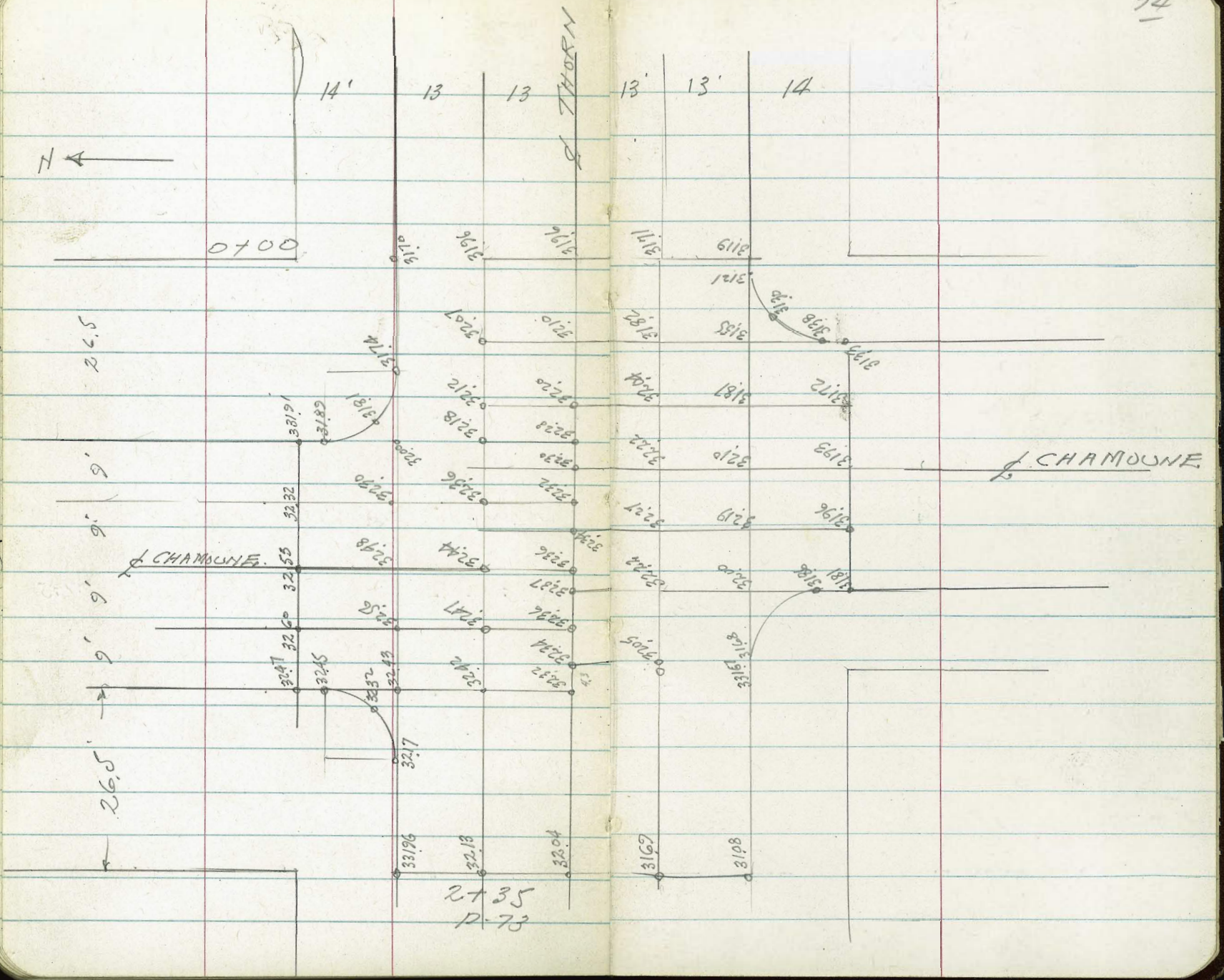
13

13'

13'

14

WATER



THORN St. Pass.

from Charnock to Alley 125'E

PLAN 8721-L

Walker
Hoffman
Bishop
2-15-52

140 31751

THORN

cut 1/4 1/4 cut

14.2 Alley
End Project 1425

cut	1/4	1/4	cut
329.44	329.83	329.96	329.83 329.44
330.37	330.39	330.48	330.32
	330.91	330.97	330.78
	331.43	331.46	331.24
331.70	331.96	331.96	331.70 331.19

0+922

0+615

0+307

0+100

1798⁸ tie in SMH
32' 12.66%

existing 213⁴ Elev.
213⁶ 218⁷ 5/4
C-5¹⁸

1760⁸ BRK
26² 52.63%

218⁴ 223⁹ 5/4
C-4⁶⁷

1734² SMH #2

232⁴ 239⁸ 5/4
C-7⁴

1706³ garage door

232² 240⁸ 5/4
C-8¹⁸

0776³

233⁰ 242⁰ 5/4
C9⁰⁸

0746³ L.H. SMH #1

233³⁰ 241⁴⁶ 4/4
C-8¹⁶

0723¹

233⁶⁵ 240⁵³ 3/4
C-6⁸⁸

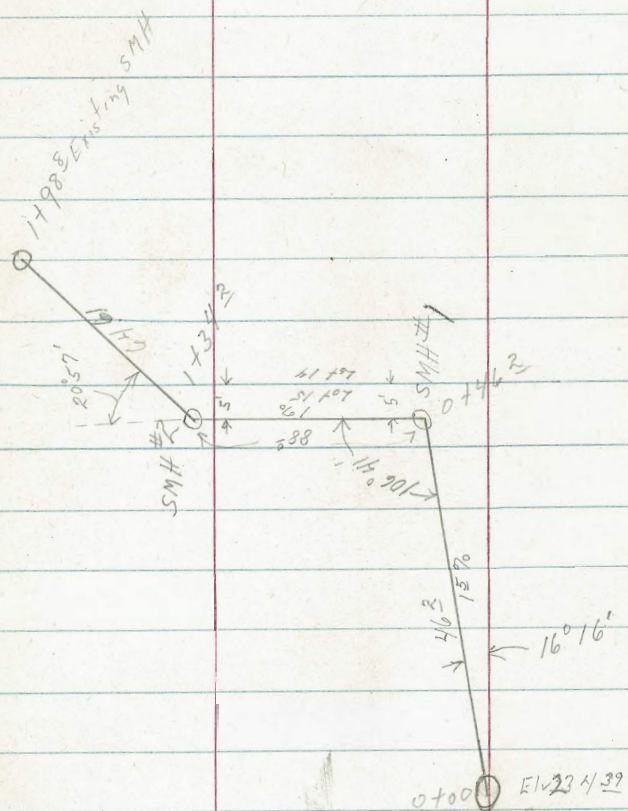
existing 234³² Elev. 240³²
234⁰⁰ C-6³² 3/4

0700

0700 Elev 234³² existing
334

248²⁸ NE DP
Hortensia +
Hickory

BM



Station	E	1/4	2	3/4	W
	Cont				Cont
2+00	315.15	315.32	315.20	314.82	314.16
1+75	316.48	316.64	316.53	316.16	315.49
1+50	317.81	317.98	317.86	317.48	316.82
1+25	319.14	319.30	319.19	318.81	318.15
1+00	320.48	320.64	320.52	320.14	319.48
0+75	321.81	321.97	321.85	321.46	320.81
0+50	323.14	323.30	323.18	322.80	322.14
0+20-8 1/2	324.74	324.90	324.79	324.40	323.74
0+10 8 1/2	325.25	325.34	325.20	324.82	324.18
Shine Thrift 0+00	325.65	325.68	325.50	325.11	324.53

E	1/4	2	3/4	W
Cont				Cont
3+00	309.84	309.34		308.68
2+90	310.37			309.37
2+80	310.90	311.07	310.95	310.56
				309.90
2+60	311.96	312.12	312.01	311.62
			310.75	310.26
2+40			312.01	
			312.01	
2+36	313.23	313.40	313.29	312.90
				312.24
2+25	313.82	313.99	313.87	313.49
				312.83

12' elv 466.47
read 4.55
36' Advy.

CO 03 2.58

CO 30 2.58

CO 17 2.58

rated

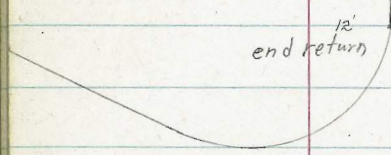
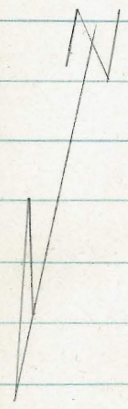
60 to 54

12' end return elv 466.05
read 6.05

El Cajon

BM 465.27

NWBP
College
El Cajon



water.

4407⁵ 32974

37²² C748

4432⁵ 330²⁰

40²¹ C10⁰⁷

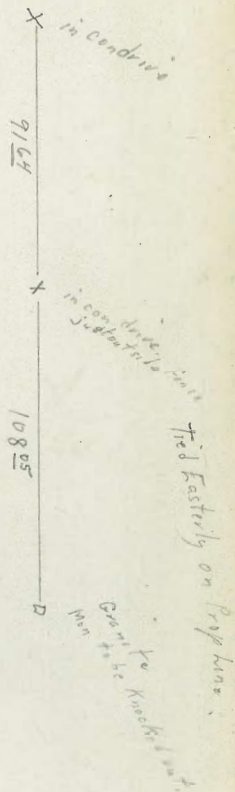
4457⁵ 330⁸⁰

42¹⁸ C11³⁸

4482⁵ 331¹⁰

44⁰⁵ C12⁹⁵

Southernly Reacts



440 0+00 BC Midway $\frac{1}{4}$ $\frac{1}{4}$ $\frac{1}{4}$
 7056 70.74

44 0+50 $\frac{1}{4}$ $\frac{1}{4}$
 71.35 71.79

47 1. Rate

400 75.71 75.97

443 76.30 76.50

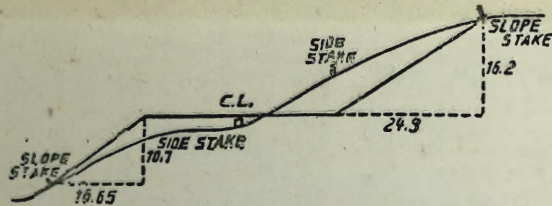
500 77.30 77.39

+50 77.77 77.94

leveling

69.50
 23.15

 46.37



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