

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
1	1.00	1.10	1.20	1.30	1.40	1.50	1.60	1.70	1.80	1.90
2	2.00	2.10	2.20	2.30	2.40	2.50	2.60	2.70	2.80	2.90
3	3.00	3.10	3.20	3.30	3.40	3.50	3.60	3.70	3.80	3.90
4	4.00	4.10	4.20	4.30	4.40	4.50	4.60	4.70	4.80	4.90
5	5.00	5.10	5.20	5.30	5.40	5.50	5.60	5.70	5.80	5.90
6	6.00	6.10	6.20	6.30	6.40	6.50	6.60	6.70	6.80	6.90
7	7.00	7.10	7.20	7.30	7.40	7.50	7.60	7.70	7.80	7.90
8	8.00	8.10	8.20	8.30	8.40	8.50	8.60	8.70	8.80	8.90
9	9.00	9.10	9.20	9.30	9.40	9.50	9.60	9.70	9.80	9.90
10	10.00	10.10	10.20	10.30	10.40	10.50	10.60	10.70	10.80	10.90
11	11.00	11.10	11.20	11.30	11.40	11.50	11.60	11.70	11.80	11.90
12	12.00	12.10	12.20	12.30	12.40	12.50	12.60	12.70	12.80	12.90
13	13.00	13.10	13.20	13.30	13.40	13.50	13.60	13.70	13.80	13.90
14	14.00	14.10	14.20	14.30	14.40	14.50	14.60	14.70	14.80	14.90
15	15.00	15.10	15.20	15.30	15.40	15.50	15.60	15.70	15.80	15.90
16	16.00	16.10	16.20	16.30	16.40	16.50	16.60	16.70	16.80	16.90
17	17.00	17.10	17.20	17.30	17.40	17.50	17.60	17.70	17.80	17.90
18	18.00	18.10	18.20	18.30	18.40	18.50	18.60	18.70	18.80	18.90
19	19.00	19.10	19.20	19.30	19.40	19.50	19.60	19.70	19.80	19.90
20	20.00	20.10	20.20	20.30	20.40	20.50	20.60	20.70	20.80	20.90
21	21.00	21.10	21.20	21.30	21.40	21.50	21.60	21.70	21.80	21.90
22	22.00	22.10	22.20	22.30	22.40	22.50	22.60	22.70	22.80	22.90
23	23.00	23.10	23.20	23.30	23.40	23.50	23.60	23.70	23.80	23.90
24	24.00	24.10	24.20	24.30	24.40	24.50	24.60	24.70	24.80	24.90
25	25.00	25.10	25.20	25.30	25.40	25.50	25.60	25.70	25.80	25.90
26	26.00	26.10	26.20	26.30	26.40	26.50	26.60	26.70	26.80	26.90
27	27.00	27.10	27.20	27.30	27.40	27.50	27.60	27.70	27.80	27.90
28	28.00	28.10	28.20	28.30	28.40	28.50	28.60	28.70	28.80	28.90
29	29.00	29.10	29.20	29.30	29.40	29.50	29.60	29.70	29.80	29.90
30	30.00	30.10	30.20	30.30	30.40	30.50	30.60	30.70	30.80	30.90
31	31.00	31.10	31.20	31.30	31.40	31.50	31.60	31.70	31.80	31.90
32	32.00	32.10	32.20	32.30	32.40	32.50	32.60	32.70	32.80	32.90
33	33.00	33.10	33.20	33.30	33.40	33.50	33.60	33.70	33.80	33.90
34	34.00	34.10	34.20	34.30	34.40	34.50	34.60	34.70	34.80	34.90
35	35.00	35.10	35.20	35.30	35.40	35.50	35.60	35.70	35.80	35.90
36	36.00	36.10	36.20	36.30	36.40	36.50	36.60	36.70	36.80	36.90
37	37.00	37.10	37.20	37.30	37.40	37.50	37.60	37.70	37.80	37.90
38	38.00	38.10	38.20	38.30	38.40	38.50	38.60	38.70	38.80	38.90
39	39.00	39.10	39.20	39.30	39.40	39.50	39.60	39.70	39.80	39.90
40	40.00	40.10	40.20	40.30	40.40	40.50	40.60	40.70	40.80	40.90
41	41.00	41.10	41.20	41.30	41.40	41.50	41.60	41.70	41.80	41.90
42	42.00	42.10	42.20	42.30	42.40	42.50	42.60	42.70	42.80	42.90
43	43.00	43.10	43.20	43.30	43.40	43.50	43.60	43.70	43.80	43.90
44	44.00	44.10	44.20	44.30	44.40	44.50	44.60	44.70	44.80	44.90
45	45.00	45.10	45.20	45.30	45.40	45.50	45.60	45.70	45.80	45.90
46	46.00	46.10	46.20	46.30	46.40	46.50	46.60	46.70	46.80	46.90
47	47.00	47.10	47.20	47.30	47.40	47.50	47.60	47.70	47.80	47.90
48	48.00	48.10	48.20	48.30	48.40	48.50	48.60	48.70	48.80	48.90
49	49.00	49.10	49.20	49.30	49.40	49.50	49.60	49.70	49.80	49.90
50	50.00	50.10	50.20	50.30	50.40	50.50	50.60	50.70	50.80	50.90

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.

INDEXED  
*Completely.*

MICROFILMED

APR 13 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	4.02	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	.771	.845	.922	1.01
70°	.080	.159	.240	.321	.403	.485	.568	.652	.735	.819	.906	.994	1.08	1.17
75°	.095	.182	.286	.383	.480	.578	.678	.777	.877	.977	1.07	1.18	1.29	1.39
80°	.110	.220	.332	.445	.558	.671	.787	.903	1.02	1.13	1.25	1.38	1.50	1.62
85°	.128	.259	.391	.524	.657	.790	.926	1.06	1.20	1.34	1.47	1.62	1.76	1.91
90°	.149	.299	.450	.603	.756	.910	1.07	1.22	1.38	1.54	1.70	1.87	2.03	2.20
95°	.174	.350	.522	.706	.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

Sewer Ext. Blk 127 Cheates 7  
 Pav. grades " H Terabita Hrs 3  
 " " " 38 Ocean Beach 7-13  
 CUTS 73d S of EL Canyon 14  
 " Alley 18 La Mesa Colony 17-18  
 Udal - Pav. GRADES 19-28  
 Stake Cbs. Santa Barbara - between <sup>Noragansett</sup> & Del Monte 29  
 Udal St. at Clove - Curb Grades 30  
 " " - Clove - westerly 31-32  
 GRADES - Alley - Blk. 14 - Macaulley to Oliphant 33-34  
 Mendota st. - sewer laterals 35  
 Cb Ret. - Macaulley & Capistrano & Seper Lats.  
 on Capistrano - Macaulley to Wabaska 36  
 105' Cb. on Capistrano - Oliphant to Winona 37-38  
 Thomas St. - Water Main - <sup>Dendall to</sup> Lowmont 39  
 Capistrano st. cbs Poe to Quimby 40  
 15" Con. Pipe - Capistranos <sup>Winona to</sup> Wabaska 41  
 Capistrano st. cbs Quimby to Tennyson 42  
 " " Sewer Lats. <sup>Tennyson to</sup> Voltaire 43

Ch Rets Capistrano of Winona	44
Ch-East Side " - Winona to Wabaska	45
Chs. Marcey St. 29 <sup>th</sup> to 30 <sup>th</sup>	46
Stake Alley Blk 109 - Univ. rights	47
" Culvert - Lots 5 & 6 - Blk 10 - <sup>Valencia</sup> Park #1	48
" Promontory St. Fortuna to Pac. Bch. Dr.	49
Stake So. Side Chs. - fir St. - Union to front	50
Rough Grades "G" st. 25 <sup>th</sup> to 26 <sup>th</sup>	51-52
Stake Culvert Ext. End of Franciscan Way	53
" Storm Drain Hazard Tract #1	54-55
Santa Barbara - Newport to Niagara	56-72
Crows feet: Del Monte, Venice to Catalina	73
Stake curbs Del Monte, " " "	74
Venice, Del Mar to Orchard	75
Stake curbs G St., 25 <sup>th</sup> to 26 <sup>th</sup>	76
Crows feet, Niagara, Santa Barbara	78
to Venice	
Stake curbs: Santa Barbara,	79
Newport to Niagara	

1

Stake curb: Santa Barbara, 80  
Niagara to Narragansett

Moore Sewer Extension.  
 Sherman  
 Sisson BLK 127 Choates Add.  
 8-16-49. W.C. 20009

84.40

2

T.P. 863 88.17 490 79.54  
 T.P. 812 94.77 1.52 86.65  
 Check Orig B.M. 0.59 94.18 94.16

2 + 75  
 INDEXED  
 W.K.  
 AUG 17 1949

73.40  
 11.04  
 6.76  
 C 4.28

2 + 50

73.22  
 11.22  
 6.20  
 C 4.96

2 + 25

73.05  
 11.39  
 6.06  
 C 5.33

2 + 00

72.87  
 11.57  
 5.98  
 C 5.59

1 + 75 End  
 8-16-49

72.70  
 11.74  
 5.56  
 C 6.18

T.P. 517 (84.44) 775 79.27

T.P. 369 870 1129 83.33

SW Mon 046 946 9416

B17 32nd F St.

7607 L

3

10-18-49.

Moore Pav. Grades, 15' Alley

Hardin

Steeleman Blk H Terolita Hts.

Sisson

Ref. F.B. 1777-1. No. 31393

LT

E

Pt = EAST

0+30

$$\begin{array}{r} 8047 \\ \underline{4.20} \\ 3.30 \\ \hline C 1.00 \end{array}$$

8017

$$\begin{array}{r} 8047 \\ \underline{4.50} \\ 3.46 \\ \hline C 0.84 \end{array}$$

INDEXED

W.K.

OCT 19 1949

0+20

$$\begin{array}{r} 8032 \\ \underline{4.45} \\ 3.70 \\ \hline C 0.75 \end{array}$$

8002

$$\begin{array}{r} 8032 \\ \underline{4.45} \\ 3.42 \\ \hline C 1.03 \end{array}$$

0+10

$$\begin{array}{r} 8008 \\ \underline{4.69} \\ 4.02 \\ \hline C 0.67 \end{array}$$

7978

$$\begin{array}{r} 8008 \\ \underline{4.69} \\ 3.78 \\ \hline C 0.91 \end{array}$$

0+00 N.L. Monroe Ave

379.80

379.53

5.24 ✓

79.57

TP

4.63

384.77

7.23

380.14

384.77

B.M.

SEBP

0.89

387.57

386.68

Monroe

Cherokee

L

F

R

4

1+70

1+65

NOT SET 79.60  
 → 79.64  
 5.13  
 5.04  
 C 0.09

79.60  
 5.17  
 5.45  
 F 0.28

1+30

79.90  
 4.87  
 4.93  
 F 0.06

79.90  
 4.87  
 4.93  
 F 0.06

1+15 Sew. Lat #2

375.01  
 9.76  
 4.63  
 C 5.13

on lat.

0+90

Sew. Lat. #1

375.20  
 9.57  
 3.85  
 C 5.72

on lat.

80.20  
 4.57  
 4.03  
 C 0.54

80.20  
 4.57  
 3.85  
 C 0.72

0+50 = EVC

80.50  
 4.27  
 3.54  
 C 0.73

80.20

80.50  
 4.27  
 3.69  
 C 0.58

x 1.6k

0+40

384.77

80.53  
 4.24  
 3.11  
 C 1.13

80.23

80.53  
 4.24  
 3.34  
 C 0.90

384.77

2+80

$$\begin{array}{r} 77.97 \\ 6.46 \\ 4.84 \\ \hline C 1.62 \end{array}$$

77.67

$$\begin{array}{r} 77.97 \\ 6.46 \\ 5.19 \\ \hline C 1.27 \end{array}$$

2+70

$$\begin{array}{r} 78.49 \\ 5.94 \\ 4.61 \\ \hline C 1.33 \end{array}$$

78.19

$$\begin{array}{r} 78.49 \\ 5.94 \\ 2.95 \\ \hline C 2.99 \end{array}$$

2+60

$$\begin{array}{r} 78.83 \\ 5.60 \\ 4.79 \\ \hline C 0.81 \end{array}$$

78.53

$$\begin{array}{r} 78.83 \\ 5.60 \\ 4.79 \\ \hline C 0.83 \end{array} \quad \begin{array}{l} + \\ \text{out} \end{array}$$

2+50 = PVC

$$\begin{array}{r} 79.00 \\ 5.43 \\ 4.81 \\ \hline C 0.62 \end{array}$$

78.70

$$\begin{array}{r} 79.00 \\ 5.43 \\ 4.78 \\ \hline C 0.71 \end{array} \quad \begin{array}{l} + \\ \text{out} \end{array}$$

T.P

472

384.43

5.06

379.71

384.43

2+10

$$\begin{array}{r} 79.30 \\ 5.47 \\ 5.03 \\ \hline C 0.44 \end{array}$$

$$\begin{array}{r} 79.30 \\ 5.47 \\ 5.29 \\ \hline C 0.18 \end{array}$$

384.77384.77



67

2

存

6

219678 = 56 Madison Ave.

377.11

76.80

76.87

7.63

7.62 check

0.01 out

2190

77.28

76.98

77.28

7.15

6.34

C 0.81

7.15

5.90

C 1.25

384.43

Stake Alley Pav.  
20' wide

2-1-50

Moore Blk. 3-8 Ocean Beach  
13c99  
Stoneman Wp. 31c99  
Coanford

R-L FB. 1130

INDEXED

N.K.  
FEB 6 1950

0+60

T.P. 1238 58.56 145 46.18

0+40

0+20

0+00 E4 Sunset Cliffs Blvd.

BM BP 11.44 47.63 30.19

NW Cor.  
Sunset Cliffs Blvd.  
Delman

LT-North

R+

7

4532

13.24  
12.10  
C 1.14

4483

58.56

4495

13.61  
13.84  
F 0.28

4461

3.02  
2.31  
C 0.71

4405

4414

3.49  
3.95  
F 0.46

4398

3.65  
2.98  
C 0.67

4344

4350

4.13  
4.30  
F 0.17

4349

4.14  
4.13  
C 0.01

4292

4294

4.69  
4.69  
0.00

Pav.

4763

Pav.

LT

8

R+

8

1782

$$\begin{array}{r} 5307 \\ \underline{5.54} \\ 2.74 \\ \hline C 2.80 \end{array}$$

$$\begin{array}{r} 5272 \\ \underline{5.84} \\ 6.50 \\ \hline F 0.66 \end{array}$$

1751

$$\begin{array}{r} 5086 \\ \underline{7.76} \\ 4.68 \\ \hline C 3.02 \end{array}$$

$$\begin{array}{r} 5056 \\ \underline{8.00} \\ 8.35 \\ \hline F 0.35 \end{array}$$

1720 EVC

$$\begin{array}{r} 4869 \\ \underline{9.87} \\ 7.25 \\ \hline C 2.62 \end{array}$$

4824

$$\begin{array}{r} 4839 \\ \underline{10.17} \\ 10.66 \\ \hline F 0.49 \end{array}$$

1700

$$\begin{array}{r} 4738 \\ \underline{11.18} \\ 9.71 \\ \hline C 1.47 \end{array}$$

4693

$$\begin{array}{r} 4708 \\ \underline{11.48} \\ 11.98 \\ \hline F 0.50 \end{array}$$

0780

$$\begin{array}{r} 4626 \\ \underline{12.30} \\ 10.99 \\ \hline C 1.31 \end{array}$$

4579

$$\begin{array}{r} 4593 \\ \underline{12.63} \\ 12.60 \\ \hline C 0.03 \end{array}$$
58.565856

LT

8

PT 9

3.437

63.86  
5.63  
4.34  
C 1.29

63.56  
5.93  
7.15  
F 1.22

3.706

61.69  
7.80  
4.32  
C 3.48

61.39  
8.10  
8.15  
F 0.05

2.475

59.53  
9.96  
6.52  
C 3.44

59.23  
10.26  
11.37  
F 1.11

2.460 Sew. lat #3

N.L. S. lat  
53.63 ← IN 2.452

T.P.

1138

69.49

0.45 5.811

69.49

2.444

57.36  
1.20  
0.20  
C 1.00 con.

57.06  
1.50  
2.18  
F 0.68

2.413

55.19  
3.37  
0.15  
C 3.22

54.89  
3.67  
3.96  
F 0.29

58.56

58.56

4750 End (grades)

T.P. 10.47 84.59 0.90 74.12
$$\begin{array}{r} 73.79 \\ 10.80 \\ 8.67 \\ \hline C 2.13 \end{array}$$

73.34

84.59

$$\begin{array}{r} 73.49 \\ 11.10 \\ 12.42 \\ \hline F 1.32 \end{array}$$

4730

$$\begin{array}{r} 71.50 \\ 3.52 \\ 1.81 \\ \hline C 1.71 \end{array}$$

71.05

$$\begin{array}{r} 71.20 \\ 3.82 \\ 4.68 \\ \hline F 0.86 \end{array}$$

4710

$$\begin{array}{r} 69.47 \\ 5.55 \\ 4.38 \\ \hline C 1.17 \end{array}$$

69.02

$$\begin{array}{r} 69.17 \\ 5.85 \\ 6.03 \\ \hline F 0.18 \end{array}$$

2 3790

T.P.  $\nearrow$  5.82 75.02  
2nd setup 7.41 76.61 0.29 69.20
$$\begin{array}{r} 67.70 \\ 7.32 \\ 5.52 \\ \hline C 1.80 \end{array}$$

67.25

75.02

76.61

$$\begin{array}{r} 67.40 \\ 7.62 \\ 7.41 \\ \hline C 0.21 \end{array}$$

3770 Pvc

$$\begin{array}{r} 66.17 \\ 3.32 \\ 2.62 \\ \hline C 0.70 \end{array}$$

65.72

$$\begin{array}{r} 65.87 \\ 3.62 \\ 4.05 \\ \hline F 0.43 \end{array}$$
69.4969.49

5+59.37

5+40 F.V.C.

T.P. 7.30 91.76 0.13 84.46

5+20 = Sewer Lat #1

5+02 Sew. Lat. #2

5+00 P.V.C.

1+70 E.V.C.

84.59

S.L. 77.80  
6.79  
2.20  
C 4.59

N.L. 75.61  
8.98  
2.25  
C 6.73

LT

89.12  
2.64  
2.00  
C 0.64

86.06  
5.70  
4.47  
C 1.23

83.10  
1.49  
0.75  
C 0.74

80.33  
4.26  
2.23  
C 2.03

76.33  
8.26  
3.82  
C 4.44

88.66

85.61

91.76

82.65

79.88

75.88

84.59

R7 11

88.82  
2.94  
3.46  
F 0.52

85.76  
6.00  
7.18  
F 1.18

82.80  
1.79  
2.20  
F 0.41

80.03  
4.56  
5.56  
F 1.00

76.03  
8.56  
9.69  
F 1.04

5+9875 W.L. Ebens St.

$$\begin{array}{r} 9428 \\ \underline{6.07} \\ \checkmark \end{array}$$

$$\begin{array}{r} 9349 \\ \underline{6.86} \\ \checkmark \end{array}$$

$$\begin{array}{r} 93.44 \\ \underline{6.91} \\ 6.90 \\ \underline{C 1.01} \end{array}$$

5+8875

$$\begin{array}{r} 9341 \\ \underline{6.94} \\ 4.59 \\ \underline{C 2.35} \end{array}$$

9285

$$\begin{array}{r} 93.05 \\ \underline{7.31} \\ 7.82 \\ \underline{F 0.51} \end{array}$$

5+7875 PVC

$$\begin{array}{r} 92.17 \\ \underline{8.18} \\ 7.50 \\ \underline{C 0.68} \end{array}$$

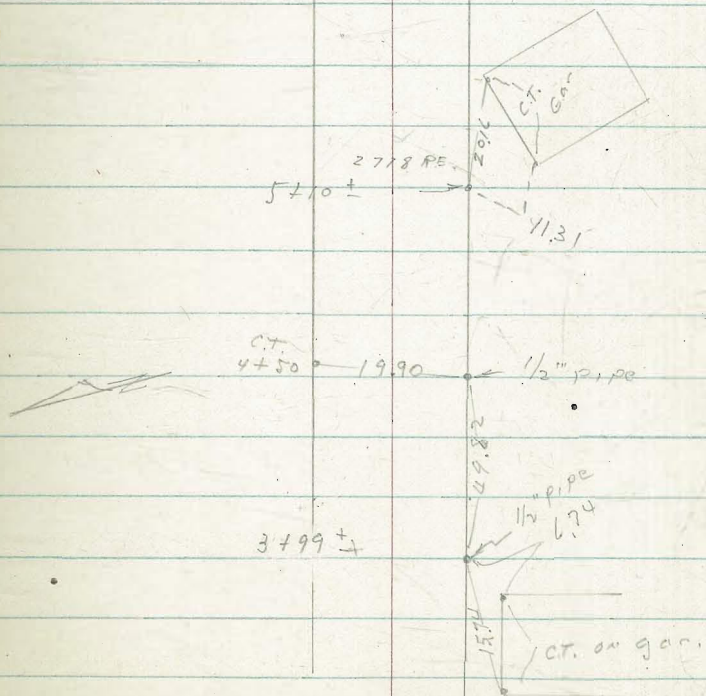
9174

$$\begin{array}{r} 91.87 \\ \underline{8.48} \\ 9.48 \\ \underline{1.00} \end{array}$$

T.P. 1059 100.35 200 8976  
9176

100.35

R.P. row survey  
 Pipes on alley  
 Blk 38 O.B.





2-3-50. CUT stakes ON  
73d ST.

Moore EL cagon to  
Begg

Sheeman Amhurst  
Crawford

W10 20008

LT  
c6

£

Rt.  
c6

14

1+30

INDEXED

W.K.  
FEB 6 1950

T.P

673

479.99

757

473.26

pp. for  
alby

0+90

474.35  
5.64  
3.60  
C 2.0

473.9  
6.69  
7.39  
F 1.3

479.99

475.5  
5.33  
3.63  
C 1.7

475.0  
5.63  
4.63  
C 1.0

0+50 P.C

477.25  
3.58  
2.58  
C 1.0

477.0  
3.63  
2.39  
C 1.24

0+00 S L EL Cagon Ave

480.94

480.10

- 0.10 ✓

0.73 ✓

SWBP

048

48.83

480.35

480.83

73d + EL Cagon

LT

d

Rt

15

2+566

473.64

473.10

$$\begin{array}{r} 8.11 \\ 3.03 \\ \hline \end{array}$$

C 5.08

$$\begin{array}{r} 8.65 \\ 8.45 \\ \hline \end{array}$$

C 0.2

2+133

473.77

473.25

$$\begin{array}{r} 8.0 \\ 5.8 \\ \hline \end{array}$$

C 2.2

$$\begin{array}{r} 8.50 \\ 9.35 \\ \hline \end{array}$$

F 0.85

T.P. 584 481.75 408 475.91481.75

1+70 Enc

473.9

473.4

$$\begin{array}{r} 6.09 \\ 0.59 \\ \hline \end{array}$$

C 5.5

Nail  
High  
Fence
$$\begin{array}{r} 6.59 \\ 7.79 \\ \hline \end{array}$$

F 1.2

1+60 SL Alley

See alley CUTS

1+40 ~L ALley

479.99479.99

PLOT on Tie Sheet!

INDEXED

W.K.  
FEB 6 1950

3+70 SL Amhurst

473.8  
7.95  
2.25  
C 5.5

472.60  
9.15  
4.65  
C 4.5

3+40 E Amhurst

473.4  
8.35  
2.05  
C 6.3

3+10 N Amhurst

473.47  
8.28  
1.78  
C 6.5

472.9  
8.85  
5.00  
C 3.85

481.75

Lt

E

Rt

16

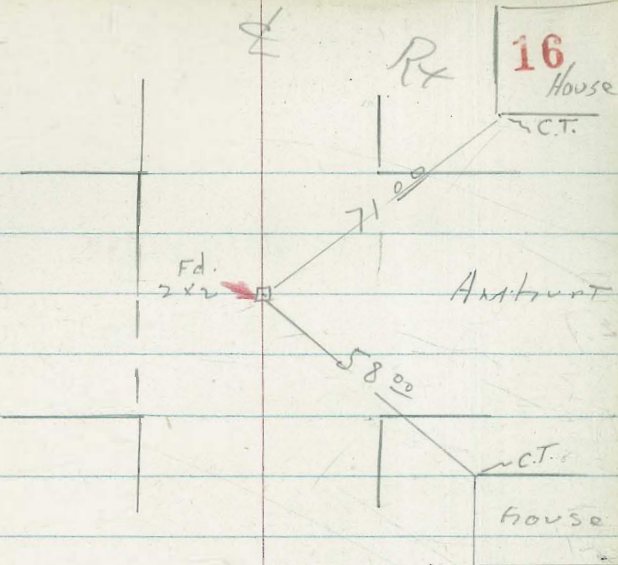
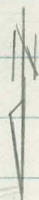
House

C.T.

Fd.  
242

Amhurst

C.T.  
House



CUT STAKES IN  
ALLEY BLK 18  
La Mesa Colony

INDEXED  
W.K.  
FEB 6 1950

1420 EVC

$$\begin{array}{r} 4694 \\ 7.82 \\ 6.68 \\ \hline C 1.14 \end{array}$$
$$\begin{array}{r} 469.6 \\ 7.62 \\ 3.82 \\ \hline C 3.8 \end{array}$$

480

$$\begin{array}{r} 470.10 \\ 7.12 \\ 6.72 \\ \hline C 0.4 \end{array}$$
$$\begin{array}{r} 470.30 \\ 6.92 \\ 4.12 \\ \hline C 2.8 \end{array}$$

440

$$\begin{array}{r} 4714 \\ 5.82 \\ 5.52 \\ \hline C 0.3 \end{array}$$
$$\begin{array}{r} 471.6 \\ 5.62 \\ 5.02 \\ \hline C 0.6 \end{array}$$

0400 W 1 734 ST

$$\begin{array}{r} 4734 \\ 3.82 \\ 3.96 \\ \hline F 0.14 \end{array}$$
$$\begin{array}{r} 473.60 \\ 3.62 \\ 4.32 \\ \hline F 0.7 \end{array}$$

T.P. 39C 477.22  
P.W.

4732C  
T.P. 14

477.22

2435 EL Harrison Ave

$$\begin{array}{r} \times 684 \\ 8.82 \\ \underline{9.32} \\ F 0.50 \end{array}$$

$$\begin{array}{r} \times 686 \\ 8.62 \\ \underline{7.56} \\ C 1.06 \end{array}$$

149647

$$\begin{array}{r} \times 6824 \\ 8.48 \\ \underline{9.98} \\ F 1.5 \end{array}$$

$$\begin{array}{r} \times 6894 \\ 8.28 \\ \underline{5.48} \\ C 2.8 \end{array}$$

145833

$$\begin{array}{r} \times 6907 \\ 8.15 \\ \underline{8.10} \\ C 0.05 \end{array}$$

$$\begin{array}{r} \times 6927 \\ 7.95 \\ \underline{5.25} \\ C 2.7 \end{array}$$

Udal Parving Grades

Moore

WO 31080

Begg

Sherman

RP's 1800/20

Crowford

INDEXED  
W.N.  
APR 20 1950

1+50

1+00

T.P. 0.48 181.94 11.53 181.46

0+50

0+00 end of Paring 100 N of Plum

3+00

BM 1:30 192.99

191.69

Lt

170.68  
11.26  
11.7  
F 0.5

175.05  
6.89  
10.1  
F 3.2

179.42  
13.57  
14.5  
F 0.9

183.79 183.30  
9.20  
F 9.90  
F 0.70

SW Udal & Plum

Rt 20

170.61  
11.33  
7.3  
C 4.0

174.84  
7.10  
1.2  
C 5.9

179.07  
13.92  
6.1  
C 7.8

183.30  
9.69  
3.5  
C 6.2

192.99

L

R

21

644 165.54 ✓

Set BM of disc  
Clover & Udal

R + 00

(166.64) Doyle  
 166.60  
 5.38  
 4.8  
 C 0.6

166.60 167.30  
 44.68  
 2.9  
 C 1.8

T.P. 3 23 171.98 13.19 168.75171.98

1 + 85 R + only

167.70  
 14.24  
 9.4  
 C 4.8

1 + 75 curb BC R = 40.8

168.50  
 13.44  
 12.8  
 C 0.6

168.34 168.50  
 13.44  
 8.9  
 C 4.5



4. + 00

$$\begin{array}{r}
 160.38 \\
 11.60 \\
 10.0 \\
 \hline
 C 1.6
 \end{array}$$

0 + 50

$$\begin{array}{r}
 162.44 \\
 9.54 \\
 6.9 \\
 \hline
 C 2.6
 \end{array}$$

16 35

0 + 33.35

0 + 29.12

0

0

Rt Cut 6 B.C. R 57.36  
Lt

162.66

$$\begin{array}{r}
 163.11 \\
 8.87 \\
 6.0 \\
 \hline
 C 2.9
 \end{array}$$

0 + 00 W. Line of Clove

164.14

$$\begin{array}{r}
 164.48 \\
 7.5 \\
 16.3 \\
 \hline
 C 1.2
 \end{array}$$

171.98

2+10.5

156.47  
15.5113.0  
C 7.5

1+90

156.96

15.02

10.4

C 2.6

1+70.5

159.56

14.42

11.7

C 2.7

1+50.5 PVC

158.32

13.66

11.0

C 2.7

2 + 31.57 beg exit ob

↓

↓

↓

2 + 30

156.10  
 15.88  
 13.0  
 ———  
 127.22

156.14

NOT  
 SET

Udal

K

P

25

Sewer Lat bet Clove & Plum

1+90

#10	164.53
	8.84
C	<u>5.16</u>
	3.68

#5	164.53
	8.84
C	<u>1.16</u>
	7.68

T.P. 4.02 173.37 13.07 169.35

173.37

1+40

#9	168.08
	14.34
	<u>11.63</u>
C	2.71

#6	168.08
	14.34
	<u>5.53</u>
C	8.81

0+90

#8	171.68
	10.74
	<u>9.30</u>
C	1.44

#7	171.68
	10.74
	<u>5.50</u>
C	16.74

0+00 = 100 W of Plum

T.P. 182.42 0.96 181 #6

182.42

Udal Sewers

088 15905

check #2 15131  
 $\frac{772}{15903}$

318 15993 1266 15675

2+23  $\frac{25}{25}$

387 169 41  
 BM clove & Udal

16554

1+40  
 $\frac{8325}{8325}$

0+90

0+00 = W Line Clove

B

159 93  
 #12 148 38  
 11.55  
 6.12  
 $\frac{177.70}{159.43}$

111 driveway  
 #11 151.32

B

26

#1 149.62  
 1031  
 444  
 $\frac{149.62}{1031}$

#2 151.31  
 $\frac{2206}{1810}$   
 1038  
 $\frac{151.31}{7.72}$

169 41

#3 153.73  
 19.64  
 11.89  
 $\frac{153.73}{7.75}$

#4 155.78  
 17.59  
 10.95  
 $\frac{155.78}{6.64}$

Udal Water Lats.  
& Water Main

L

27

1+69.8

Fire Hdo 168.94 165.40  
    ca 3.12 6.66  
    at 1.50 1.00  
    C 1.62 C 5.66  
073 17206 12.72 171.34

1+50

167.16  
16.90  
9.8  
C 7.1

1700

171.44  
12.62  
4.5  
C 8.1

0+50

175.72  
8.34  
1.7  
C 6.6

0+00 100 N of Plum

180  
4.06  
C 3.3

260 184.06

181.46

184.06

0 + 20

$$\begin{array}{r}
 159.9 \\
 12.06 \\
 100 \\
 \hline
 C 2.2
 \end{array}$$

0 + 0 N Line Clove

$$\begin{array}{r}
 160.7 \\
 11.36 \\
 8.2 \\
 \hline
 C 3.2
 \end{array}$$

199.8 S Line Clove.

$$\begin{array}{r}
 163.50 \\
 8.56 \\
 5.00 \\
 \hline
 C 3.6
 \end{array}$$

1 + 74.8

Curb BC

$$\begin{array}{r}
 165.00 \\
 7.06 \\
 1.7 \\
 \hline
 C 5.36
 \end{array}$$
172.06

State Cbs West Side  
Santa Barbara between **29**  
Maragansett & Del Monte

2+30

152.2  
10.93  
7.5  
C 3.4

229.64  
228.61  
228.58

Elev. State      Ch. Elev.  
3100      227.39 E+Cb

2+72      235.74      235.63 CO<sup>1</sup>

2+46      234.04      234.01 CO<sup>2</sup>

1+90

153.0  
10.13  
6.8  
C 3.3

2+88      232.42      232.26 CO<sup>1</sup>

1+88      230.22      230.39 FO<sup>17</sup>

1+62 EC AIRY      228.12      228.77 FO<sup>29</sup>

1+62 at PL      228.87      228.86 CO<sup>21</sup>

1+50

154.4  
8.73  
5.9  
C 2.8

1+38 "      227.50      227.58 FO<sup>08</sup>

1+38 BC AIRY      227.53      227.35 CO<sup>1</sup>

1+38 BC      227.41      227.54 FO<sup>23</sup>

TP      287      163.13      11.80      160.26

1+38 PL      227.56      227.71 FO<sup>15</sup>

1+00

156.52  
15.54  
13.1  
C 2.4

1+62 PL      229.34      229.03 CO<sup>31</sup>

1+62 EC      229.87      228.90 FO<sup>07</sup>

0700 So Line Maragansett.

0+50

158.63  
13.43  
11.0  
C 2.4

B17      237.44

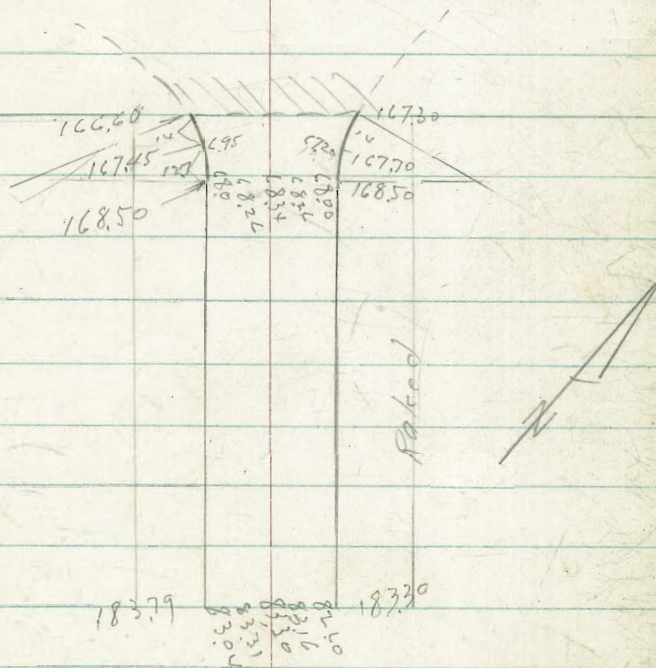
NEBP Del Monte  
& Santa Barbara



Udal St.  
 At Clove  
 Comb grades

BM	8.37	173.41	165.54
disk			
Udal			
Clove			

Clove



2-19-50 Udal. Cont grades  
 Moore Clove Wily  
 Beag  
 Crawford W.O. 31080

BM. P. 21 064 166.18 165.54  
 2 disk  
 Udal  
 and  
 Clove

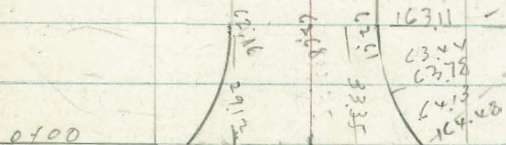
Ex. c6

150.10  
 156.14 2450  
 156.47 2 + 10  
 157.96 ✓ 1190  
 157.56 ✓ 1170  
 158.32 ✓ 1150

160.38 ✓ 1100

162.43 ✓ 0150

R 5736  
 55°33'

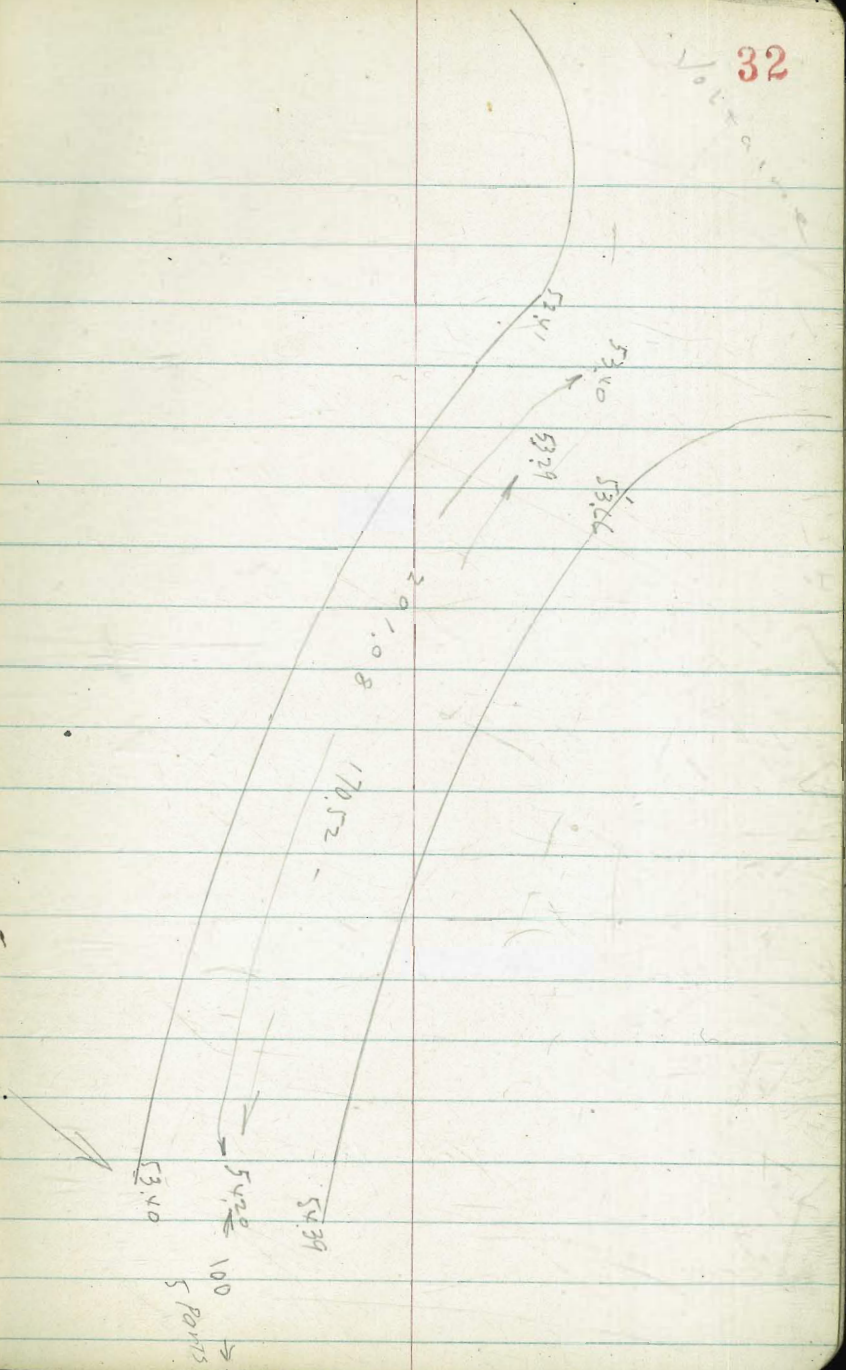
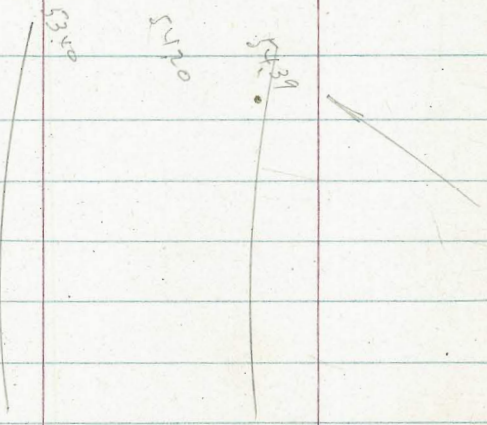


P. 21  
 disk BM. 165.54  
 Clove

uda L S.

32

Puebla  
LINE  
BC



Grades - Alley BIK 14-

Johnson  
Greer  
Cravford  
6-2-50  
W.O. 31450

Macaulay to Oliphant  
Point Loma Hts. Left

Right

		Stake Elev.	Grade Elev.	Cut or Fill	Offset		Stake Elev.	Grade Elev.	Cut or Fill	Offset	
3+00		7.33	108.21	108.18	CO <sup>63</sup>	4° BK	7.84	108.30	108.18	CO <sup>12</sup>	2° BK
2+80		6.39	109.25	108.90	CO <sup>25</sup>	0° BK	7.00	109.14	108.90	CO <sup>24</sup>	2° BK
2+60	INDEXED MK NOV 15 1950	6.07	110.07	109.61	CO <sup>46</sup>	2° BK	5.39	110.75	109.61	C1 <sup>14</sup>	0° BK
2+40		5.75	110.39	110.33	CO <sup>06</sup>	1° BK	5.75	110.39	110.33	CO <sup>06</sup>	2° BK
2+20		4.77	111.37	111.04	CO <sup>52</sup>	1° BK	5.16	110.98	111.04	FO <sup>06</sup>	1° BK
2+00		4.22	111.92	111.76	CO <sup>16</sup>	2° BK	4.50	111.64	111.76	FO <sup>12</sup>	2° BK
1+80		3.28	112.86	112.47	CO <sup>39</sup>	1° BK	3.19	112.95	112.47	CO <sup>48</sup>	0.45° BK
1+60		2.60	113.54	113.24	CO <sup>30</sup>	0.3° BK	3.08	113.06	113.24	FO <sup>18</sup>	2° BK
1+40		2.07	114.07	114.16	FO <sup>09</sup>	2° BK	1.24	114.90	114.16	CO <sup>34</sup>	0.3° BK
T.P.	2.30	116.14	10.68	113.84							
1+20		2.36	115.16	115.22	FO <sup>06</sup>	0.4° BK	8.67	115.85	115.22	CO <sup>63</sup>	2° BK
1+00		8.43	116.09	116.40	FO <sup>21</sup>	2° BK	8.00	116.52	116.40	CO <sup>12</sup>	2° BK
0+80		6.25	118.27	117.74	CO <sup>23</sup>	0.57° BK	6.36	118.16	117.74	CO <sup>42</sup>	2° BK
0+60		5.10	119.42	119.20	CO <sup>22</sup>	4.2° BK	5.42	119.10	119.20	FO <sup>10</sup>	2° BK
0+40		3.22	121.30	120.73	CO <sup>57</sup>	0.58° BK	3.82	120.70	120.73	FO <sup>23</sup>	0.25° BK
0+20		2.22	122.30	122.27	CO <sup>03</sup>	0.54° BK	2.33	122.19	122.27	FO <sup>08</sup>	0.40° BK
0+10		1.21	123.31	122.83	CO <sup>48</sup>	0.5° BK	0.56	123.96	122.83	C1 <sup>13</sup>	0.60° BK
0+00		1.44	123.08	123.05	CO <sup>03</sup>	0.0° BK	1.07	123.45	123.05	CO <sup>40</sup>	0.30° BK
	1.44	124.52	10.41	123.08							
	0.37	123.49		123.10							

N.W.B.P. Chataworth & Narragansett

	Stake Elev.	Grade Elev.	Cut or Fill	Offset		Stake Elev.	Grade Elev.	Cut or Fill	Offset
--	----------------	----------------	----------------	--------	--	----------------	----------------	----------------	--------

7.14 86.79 86<sup>33</sup> F.B. 1822-P13

T.P. 3.99 93.43 12.65 89.44

T.P. 3.89 102.09 11.31 98.20

4+48.1 11.52 97.99 97.80 C0<sup>19</sup> 0<sup>50</sup>BK 11.52 97.99 97.80 C0<sup>19</sup> 0<sup>50</sup>BK

4+40 6.65 102.8<sup>6</sup> 98.94 C3<sup>92</sup> 0<sup>50</sup>BK 9.48 100.0<sup>3</sup> 98.94 C1<sup>09</sup> 10BK

4+20 6.48 103.0<sup>3</sup> 102.00 C1<sup>03</sup> 1<sup>0</sup>BK 6.99 103.5<sup>2</sup> 102.00 C0<sup>52</sup> 0<sup>80</sup>BK

4+00 5.40 104.1<sup>1</sup> 104.13 F0<sup>02</sup> 3<sup>0</sup>BK 5.45 104.0<sup>6</sup> 104.13 F0<sup>07</sup> 2<sup>0</sup>BK

3+80 4.90 104.9<sup>1</sup> 105.32 F0<sup>21</sup> 1<sup>0</sup>BK 5.14 104.37 105.32 F0<sup>95</sup> 0<sup>50</sup>BK

3+60 3.72 105.79 106.04 F0<sup>25</sup> 0<sup>30</sup>BK 4.01 105.50 106.04 F0<sup>54</sup> 0<sup>30</sup>BK

3+40 2.97 106.54 106.75 F0<sup>21</sup> 1<sup>0</sup>BK 2.22 106.59 106.75 F0<sup>16</sup> 0<sup>30</sup>BK

3+20 1.57 107.94 107.47 C0<sup>47</sup> 0<sup>89</sup>BK 1.61 107.90 107.47 C0<sup>43</sup> 1.39 BK

T.P. 1.57 109.51 8.20 107.94

X 116.14

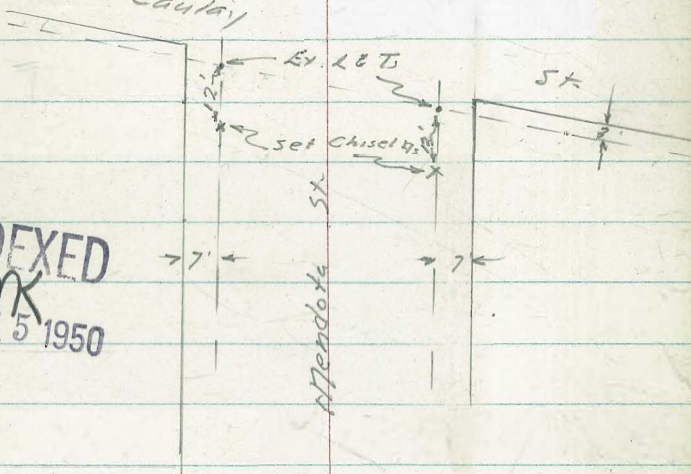
Johnson  
Greer  
Crawford  
6-5-50  
W.O. 31450

Sewer laterals  
on Mendota St.

INDEXED  
MK  
NOV 15 1950

INDEXED  
MK  
NOV 15 1950

Tie Outs  
Mendota & McCaulay  
McCaulay



#2 Sewer Lateral

116.45	117.19
9.84	10.10
111.96	Grade = 112.61
0	35' Lt.
<u>C.H. 49</u>	<u>C.H. 58</u>

#1 Sewer Lateral

116.45	119.86
9.84	7.73
111.96	Grade = 112.61
0	35' Rt.
<u>C.H. 49</u>	<u>C.H. 95</u>
127.29	

4.21 127.29 10.41 123.08

039 133.49

133.10

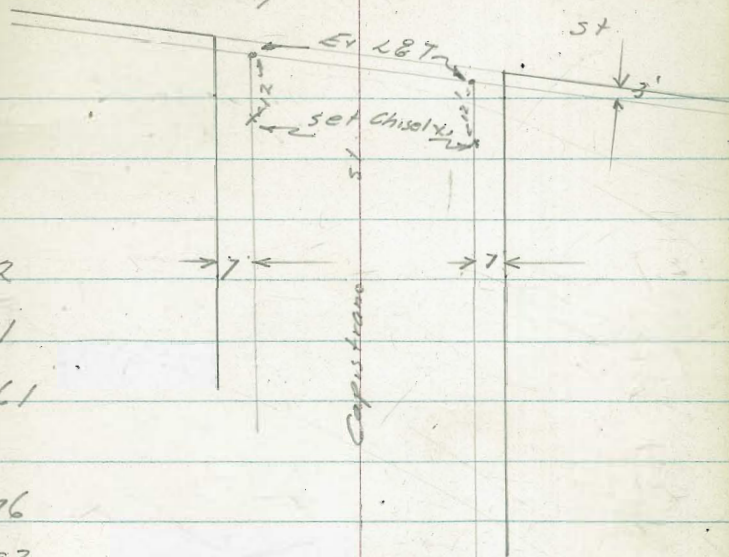
N.W. B.P. Chatsworth & Narragansett

6-13-50 Stake Cb Ret. McCaulay  
 Hendricks & Capistrano & Sewer  
 Johnson  
 Greer  
 Crawford  
 McCaulay (to Mabasta Dr.  
 (Ding 71024))

WON 31450			17.21	78.72	72.05	C6.67
#14			12.96	95.89		
T.P.	0.34	95.93	13.23	108.22		
#6	0.33	108.55	11.53	109.92	104.69	C5.23
T.P.	2.68	121.45	13.30	118.77		
#13			8.86	123.21	112.09	C 11.12
#12			8.59	123.48	112.37	C 11.11
#11			9.82	123.25	112.64	C9.61
#5					111.90	
#10			10.56	121.51	112.78	C8.76
#9			5.28	126.79	118.87	C7.92
#8			4.40	127.67	120.73	C6.93
#7			2.14	129.93	122.35	C7.58
#4			6.24	125.83	121.50	C4.33
#3			4.86	127.21	123.13	C4.08
BC on Capistrano					131.22	
SEly Ret. at Pl.					131.94	
BC on Capistrano					129.20	
NEly Ret. at Pl.					129.40	
BT	0.29	132.07			131.78	NEPP Macaulay & Capistrano

INDEXED  
 MK  
 NOV 15 1950

Tie outs McCaulay  
 & Capistrano 36



INDEXED  
 MK  
 NOV 15 1950

6-13-50  
Hendricks

Stake 105.4 of Cb  
on Capistrano between  
Oliphant & Wawona.  
Dwg. 7102-L

37

INDEXED

MK

NOV 15 1950

1405.4	7.19	95.77	95.70	
0175.4	2.56	100.40	100.4	CO 25
TP 1.05	102.96	1303	101.91	
0145.4	10.24	104.50	104.58	FO 08
0125.4	7.76	107.18	107.30	FO 12
0105.4	5.15	109.79	109.45	CO 34
0100	4.65	110.29	110.29	Et Cb
0-14.6	3.49	111.45	111.46	Et Cb

B17. 0.12 114.24

114.82

Sw. L&T Capistrano to Oliphant



6-13-50

State Cb Ret.

Hendricks

SE Cor. Capistrano &  
Wawona

Drug 7102-L

INDEXED  
MK  
NOV 15 1950

EC PL Wawona 0.38 90.64 88.90 C4 24 ✓

#1 3.73 87.29 86.85 C O 44

BC on Capistrano 2.62 88.40 88.44 Ex Cb

BM 5.17 91.02  
/

85.85

SW 7' L&T. Wawona & Capistrano  
FB 1822 P-31

6. mi. 50 State Water Main (6" C.I.)  
 Hendricks  
 Johnson  
 Greer  
 Crawford  
 W.O.# 31096

Thomas (St) Ave.  
 Kendall to Lamont

Staked 4' Below 2' Grade  
 (Btm of Ditch)

(Orig. 7795-4)

Sta		FB 1819-66 H. 1	Elev. Stake	Elev. Grade	Plan Ditch Elev. Grade	Cor F	offset
5+00	W line Lamont	8.27	42.60	42.59	37.94	C 3.3	(TOP. CB AT 5+00.07 FB 1819-P. 71)
4+80		9.72	41.65	39.06		C 2.5	
4+40		7.61	43.76	41.03		C 2.7	
4+00	New service Rt.	5.85	45.52	42.72		C 2.8	
3+60		4.52	46.85	43.87		C 3.0	
3+20	New service Rt.	3.67	47.70	44.46		C 3.2	
2+87.5	7 P 3.16 51.37	9.44	48.21	44.72		C 3.5	
2+55		9.07	48.58	44.98		C 3.6	
2+22.5		8.70	48.95	45.24		C 3.7	
1+90		8.28	49.37	45.50		C 3.9	
1+80		7.86	49.79	45.93		C 3.9	
1+00		7.43	50.22	46.61		C 3.6	
0+70		6.98	50.67	47.50		C 3.2	
0+20	New service Rt.	5.40	52.25	48.77		C 3.5	
0+00	E line Kendall	5.00	52.65	49.15		C 3.5	
B.M.	C. 14	57.65					Hwy B.P. Grand & Kendall

INDEXED  
 MK  
 NOV 15 1950

6.15-50 Stake Cbs Capistrano St.  
 Hendricks Pce to Quimby  
 Johnson East side  
 Greer Dwg 7103-L  
 Crawford  
 WOA # 31450

40

INDEXED

MK

NOV 15 1950

Rt. 1

						Elev. Stake	Elev. Grade	Cont.		
0+43.05	Reg Ex Ch.	2.04	(Ex Ch) 78.51	78.41						
0+21.52		3.00	77.55	77.56	CO <sup>01</sup>					
EC Alley Ret. = 0.00		3.71	76.84	76.71	CO <sup>12</sup>					
BC Alley Ret.		3.62	76.93	76.56 76.55	CO <sup>37</sup> CO <sup>38</sup>					
No Line Alley at P.L.		3.61	76.94	76.60 76.77 75.88	CO <sup>34</sup> CO <sup>32</sup> CO <sup>10</sup>	3.25 Ex Ch	0+79.90 Reg Ex Ch	77.30 77.24		
So. Line Alley at P.L.		4.57	75.98	75.60 75.75	CO <sup>38</sup> FO <sup>10</sup>	0+61.05	3.84	76.71 76.65	CO <sup>00</sup>	
EC Alley Ret.		4.90	75.65	75.65	Grade	(St. 0+42.2 St. 4.37)	76.18	76.06	CO <sup>12</sup>	
0+74.98	BC Alley Ret.	4.98	75.57	75.46	CO <sup>11</sup>	(Alley 0+42.2 EC 4.37)	76.19	75.98	CO <sup>20</sup>	
0+50		6.01	74.54	74.46	CO <sup>08</sup>	N. Line Alley at P.L.	3.60	76.95	76.08	CO <sup>87</sup>
0+35		7.05	73.50	73.46	CO <sup>07</sup>	S. Line Alley at P.L.	4.34	76.21	75.62	CO <sup>59</sup>
0+00	End Ex Ch	8.26	72.29	72.46	Affect.	Alley 0+23.2		75.62	75.54	CO <sup>09</sup>
						# 0+23.20	4.93	75.62	75.46	CO <sup>16</sup>
							6.03	74.52		
						0+00	End Ex Ch	74.74		Meet
BM	893	80.55		71.62						

6-16-50  
 Hendricks Stake 15" Conc. Pipe on  
 Johnson Capistrano St.  
 Greer Wawona to Wabaska  
 Crawford  
 W.O.M. 31450 Dwg. 7102-L

INDEXED  
 MK  
 NOV 15 1950

41

1+04	Clearout	7.94	68.77	67.10	C1-6.7
0+78	2.95 TP. 77.75	11.81	74.80	69.90	C4-9.0
0+52		7.86	78.75	72.70	C6-0.5
0+26		4.23	82.38	75.50	C6-8.8
0+00	at Ch. inlet	0.60	86.01	78.30	C7-7.1

B17 0.76 86.61 85-85

SM 7' L&T Wawona & Capistrano

6-16-50  
 Hendricks  
 Johnson  
 Greer  
 Crawford  
 WOK 31450

State Cbs on  
 Capistrano between  
 Quimby & Tennyson  
 Div 9. 7103L & 7104L

1+19.7 Sly Line Tennyson	103.86	103.82	meet.
0+94.7	101.69	101.51	<del>CO<sup>18</sup></del> CO <sup>18</sup>
0+69.7	99.28	99.17	<del>CO<sup>17</sup></del> CO <sup>17</sup>
0+41.7	96.98	96.83	FO <sup>15</sup> CO <sup>17</sup>
0+19.7	94.63	94.49	CO <sup>14</sup> CO <sup>14</sup>
0+04.7	93.42	93.36	<del>CO<sup>13</sup></del> CO <sup>13</sup>
EC Alley = OK00	93.05	93.01	CO <sup>11</sup> CO <sup>11</sup>
BC Alley	93.01	92.74	CO <sup>19</sup> CO <sup>27</sup>
PL Hwy Line Alley	93.18	92.51	CO <sup>17</sup> CO <sup>17</sup>
PL Sly Line Alley	91.11	91.34	CO <sup>20</sup> FO <sup>23</sup>
EC Alley	91.37	91.22	CO <sup>33</sup> CO <sup>15</sup>
BC Alley (BKS)	91.11	90.82	CO <sup>11</sup> CO <sup>29</sup>
Hwy Line Alley at PL	91.66	91.08	CO <sup>28</sup>
Sly Line Alley at PL	90.35	90.07	CO <sup>28</sup>
0+42.3	88.09	88.11	meet.
0+21.15	86.83	86.66	CO <sup>17</sup>
0+00 L	85.13	85.21	FO <sup>15</sup>

INDEXED  
 MK  
 NOV 15 1950

B17. (out)

8099

SEBP Quimby & Capistrano

Stake Sewer Laterals & Ch.  
 Capistrano St  
 Tennyson to Voltaire

43

INDEXED  
 MK  
 NOV 15 1950

0+92.90	End bench	6.28	120.71	120.59 119.05	19 feet
0+69.66		8.88	118.11	118.08 116.62	CO <sup>03</sup>
0+46.44	TP	11.59	116.59	115.36 114.20	CO <sup>04</sup>
0+23.22		7.98	112.28	112.64 111.77	FO <sup>36</sup>
0+00	Reg bench	2.42	109.84	109.92 109.35	Ex Ch.

B.M. 13.29 116.26 10297 SW 7' L&T Capistrano & Tennyson (FB 1822 P. 53)

CL. 11.39 123.22 (123.19) Top Ch. Lt. 7+55<sup>3</sup> (FB 1822 P. 58)

#16 3.72 130.49 120.63 C10<sup>26</sup>

#15 9.42 125.19 118.94 C6<sup>25</sup>

B.M. 9.79 134.61 124.82 Top Ch. Rt. 180<sup>95</sup> (FB 1822 P. 58)

State Ch. Ret.  
Capistrano & Wawong

44

INDEXED  
MK  
NOV 15 1950

Elev. State El. Gau.

0+21.07 EC	7.28	82.38	82.46	FO <sup>08</sup>
0+16 End Box	6.44	83.22	82.79	CO <sup>43</sup>
0+10.54 Brk	6.11	83.55	83.10	CO <sup>45</sup>
0+08 & Box	6.53	83.13	83.32	FO <sup>19</sup>
0+04.5 Brk	6.41	83.25	83.60	FO <sup>35</sup>
0+00 BC at P.L. Beg. Ch. Intel	6.47	83.19	83.87	FO <sup>68</sup>
	3.82	4.44	85.22	01 <sup>35</sup>
BM		8966	85.85	

6-26-50 state Cb East side  
 Hendricks Capistrano St.  
 Johnson  
 Crawford Wawona to Wabaskie  
 Bunch  
 W0# 3,450  
 Dring 7101 L

45

INDEXED  
 MS  
 NOV 15 1950

EC. Wabaskie	39.07'		71.47	69.21	C2 <sup>25</sup>
#3	29.11'		71.10	69.75	C1 <sup>35</sup>
#2	18.85		71.43	70.83	C0 <sup>60</sup>
#1	9.42		72.15	72.18	F0 <sup>3</sup>
0+68.37 BC	Capistrano & Wabaskie	12.81	73.29	73.53	F0 <sup>27</sup>
0+45.58		9.70	76.40	76.51	F0 <sup>11</sup>
0+22.79		6.99	79.11	79.49	F0 <sup>38</sup>
0+00 BC	Capistrano & Wawona	3.71	82.39	82.46	F0 <sup>02</sup>
BM	0.25	86.10	85.85		SW 7' L&T Wawona & Capistrano



7-17-80 State Cbs Boys Club  
 Hendricks Marcey St 30th to 29th  
 Johnson -  
 Greer  
 Crawford  
 WOP 2006

Elev. Stake Elev. Grade C. or F.

	Elev. Stake	Elev. Grade	C. or F.
4+00	70.97	70.95	C0.02
3+80	70.96	71.02	F0.06
3+60	70.85	71.10	F0.25
3+40	70.96	71.17	F0.21
3+20	70.94	71.25	F0.31
3+00	71.15	71.32	F0.17
2+80	71.00	71.40	F0.40
2+60	71.06	71.47	F0.41
2+40	71.04	71.55	F0.51
2+20 B.C.	71.30	71.62	F0.32
2+00	71.68	71.75	F0.07
1+80 B.C.	71.79	71.88	F0.09
1+60	71.95	72.11	F0.16
		72.06	F0.11
0+106 B.C. Ev. Cb. Rd	73.86	73.86 Ex	
		73.45	
0+00 W. Line 30			

INDEXED  
 MK  
 NOV 15 1950

BM

64.91

W.B.P. 30th & Nat'l.

7-17-50  
Hendricks  
Johnson  
Greer  
Grantford  
NO # 31748

Stake 10' Alley E & W  
Block 109 Univ. Hts.  
(DW 19. 7807-L)

47

INDEXED

NOV 15 1950

	Elev. Stake	Elev. Grade	Coef.		Elev. Stake	Elev. Grade	Coef.
3+10					367.60	367.69	
3+00	vx line Kansas	368.02	368.02		368.06	368.06	
2+65		368.98	368.24	CO <sup>24</sup> 2' BK	368.88	368.27	CO <sup>21</sup> 2' BK
2+30		369.28	368.46	CO <sup>82</sup> "	369.28	368.48	CO <sup>80</sup> 5'
1+95		368.97	368.68	CO <sup>29</sup> "	369.46	368.69	CO <sup>77</sup> "
1+60		368.89	368.89	Ev. Pav.	369.37	368.89	CO <sup>48</sup> "
1+40		369.09	369.07	Ev. Pav.	369.50	369.07	CO <sup>43</sup> 1'
1+10		369.34	369.35	FO <sup>01</sup> 2' BK	369.41	369.35	CO <sup>06</sup> 0.37
0+80		369.56	369.63	FO <sup>07</sup> "	369.43	369.63	FO <sup>26</sup> 0.50
0+50		369.59	369.91	FO <sup>32</sup> "	369.85	369.91	FO <sup>05</sup> 0.15
0+20		370.28	370.19	CO <sup>09</sup> "	370.31	370.19	CO <sup>17</sup> 0.80
0+00	E Line 11/40	370.33	370.38	Meet.	370.23	370.38	Meet.
B.M.			366.78				SEBP Kansas & Meade

Johnson Staked Contact  
 Cota lots 15  
 Crawford BIK 10  
 Greer Valencia Park #1  
 7-2-50  
 W. E. 20683

48

San Jacinto Drive  
 Check F.L. Drain at 0+00 12.54 170.29 170.29

Check E. Dist. Drain 6.05

INDEXED

mk

NOV 15 1950

	Rod	Stake Grade	Flow Line Grade	Cuts	offset 10' RT
1+25.65 = End slab.	3.77	179.06	176.00	C3 <sup>26</sup>	"
1+04.48	4.66	178.17	175.03	C3 <sup>24</sup>	"
0+83.31	5.40	177.43	174.07	C3 <sup>36</sup>	"
0+62.14	6.02	176.81	173.11	C3 <sup>20</sup>	"
0+40.97	7.38	175.45	172.15	C3 <sup>30</sup>	"
0+19.8 = E.C.	9.26	173.57	171.19	C2 <sup>38</sup>	"
0+08 = B.C. +	10.09	172.72	170.65	C2 <sup>07</sup>	"
0+00 = E. Dist. C.I.P. San Jacinto Dr.	12.54	170.29	170.29	Meet	
T.P.	5.69	182.83	9.94	172.14	
T.P.	12.54	187.08	0.18	174.54	
T.P.	12.83	174.72	0.19	164.89	
B.M.	10.31	162.08	151.77	B.P. & J.W. Return - Trinidad & Santa Maria	

Johnson  
Cota  
Greer  
Crawford  
8-14-50  
W.O. 31396

Staked Promontory St  
Fortuna to Pacific Beach Dr.  
Lt.  
Grade Cutso  
Elev. #11

	Rod	Stake Elev	Grade Elev.	Cutso #11	offset
5+25.21	3 <sup>42</sup>	48 <sup>43</sup>	47.00	C1 <sup>43</sup>	5'
4+85.21	4 <sup>17</sup>	47 <sup>69</sup>	46.38	C1 <sup>31</sup>	"
4+45.21	6 <sup>04</sup>	45 <sup>82</sup>	45.76	C0 <sup>06</sup>	"
4+05.21	6 <sup>50</sup>	45 <sup>36</sup>	45.15	C0 <sup>21</sup>	"
3+85.21	7 <sup>01</sup>	44 <sup>85</sup>	44.86	F0 <sup>21</sup>	"
3+65.21	7 <sup>21</sup>	44 <sup>65</sup>	44.57	C0 <sup>08</sup>	"
3+45.21	7 <sup>35</sup>	44 <sup>51</sup>	44.38	C0 <sup>13</sup>	"
3+25.21	7 <sup>60</sup>	44 <sup>26</sup>	44.20	C0 <sup>06</sup>	5'
3+05.21	7 <sup>75</sup>	44 <sup>11</sup>	44.06	C0 <sup>05</sup>	"
2+85.21	7 <sup>84</sup>	44 <sup>02</sup>	43.93	C0 <sup>09</sup>	"
T.P.	8 <sup>30</sup>	51 <sup>86</sup>	6.67	43 <sup>52</sup>	
2+37.67	7 <sup>01</sup>	43 <sup>22</sup>	43.70	F0 <sup>48</sup>	"
1+90.13	6 <sup>27</sup>	43 <sup>26</sup>	43.46	F0 <sup>20</sup>	"
1+42.60	7 <sup>67</sup>	42 <sup>56</sup>	43.22	F0 <sup>66</sup>	"
0+95.06	7 <sup>35</sup>	42 <sup>88</sup>	42.98	F0 <sup>10</sup>	"
0+47.53	7 <sup>16</sup>	43 <sup>07</sup>	42.74	C0 <sup>33</sup>	"
0+00	6 <sup>69</sup>	43 <sup>54</sup>	42.50	C1 <sup>04</sup>	5'

Check. 592 459.4 4592 CK P. 39 FB 1869 49 offset

Rt.

Sub grade	Rod	Stake Elev	Grade Elev.	Cutso fill	offset
45.92	5 <sup>52</sup>	46 <sup>34</sup>	46.00	C0 <sup>34</sup>	5'
45.41	6 <sup>18</sup>	45 <sup>28</sup>	45.60	C0 <sup>08</sup>	✓
44.90	6 <sup>83</sup>	45 <sup>23</sup>	45.20	F0 <sup>17</sup>	✓
44.38	7 <sup>10</sup>	44 <sup>26</sup>	44.81	F0 <sup>05</sup>	✓
44.14	7 <sup>39</sup>	44 <sup>47</sup>	44.62	F0 <sup>15</sup>	✓
43.91	7 <sup>57</sup>	44 <sup>29</sup>	44.45	F0 <sup>16</sup>	✓
43.74	7 <sup>62</sup>	44 <sup>24</sup>	44.30	F0 <sup>06</sup>	✓
43.58	7 <sup>82</sup>	44 <sup>04</sup>	44.16	F0 <sup>12</sup>	5'
43.45	8 <sup>03</sup>	43 <sup>83</sup>	44.03	F0 <sup>20</sup>	✓
43.33	7 <sup>25</sup>	43 <sup>21</sup>	43.93	F0 <sup>02</sup>	✓
43.10	6 <sup>24</sup>	51 <sup>86</sup> 43 <sup>29</sup>	43.69	F0 <sup>40</sup>	✓
42.86	6 <sup>82</sup>	43 <sup>41</sup>	43.45	F0 <sup>04</sup>	✓
42.62	7 <sup>04</sup>	43 <sup>19</sup>	43.21	F0 <sup>02</sup>	✓
42.38	6 <sup>47</sup>	43 <sup>26</sup>	42.97	C0 <sup>29</sup>	✓
42.14	4 <sup>74</sup>	43 <sup>49</sup>	42.73	C2 <sup>26</sup>	✓
41.90	3 <sup>34</sup>	46 <sup>89</sup>	42.50	C4 <sup>39</sup>	5'

INDEXED  
mk  
DEC 5 1950

B.M. 536 50<sup>23</sup> 442 442  
6.72 442

Checked 7' conc. man Fortuna & Promontory  
L.C.T. & Fortuna & Ingraham.

8-16-50 Stake Cbs South side fir St.  
 Hendricks Union to Front Sts.  
 Cota  
 Greer  
 Crawford  
 NO# 20633

Dwg. 3969 B

50

INDEXED

M.K.

DEC 5 1950

F	H.I.	Elev Stake	Ch. Elev	Cor F.
1+50	2.35	97.70	97.70	Ex. C6
1+35	3.10	96.95	97.40	FO 45
1+06.66	4.18	95.87	96.26	FO 39
0+78.33	5.70	94.35	95.13	FO 78
0+50	6.86	93.19	94.00	FO 81
0+25	7.46	92.59	93.00	FO 44
0+00	7.70 E Line Union	92.35	92.35	Ex. C6
BM -	6.05	100.05	94.00	NWBP Albatross & Fir



(G St Contd)

B17		2.50	172.01	171.99	SW BP 26th & G						
5+61	3.4 36	172.01	172.01	173.29	COLL				171.90		1
5+50	-	0.52	173.99	172.00	C1 29	5'	5.38	169.13	171.00	F0 97	3
5+17	86 TP 11.00	174.51	0.02	163.11	F0 41	5	2.07	174.51 161.07	164.20	F3 12	4'
4+85	36	5.66	157.48	158.40	F0 93	5	7.76	155.38	157.40	F2 02	5'
4+52	86 TP 12.49	163.14	0.24	150.65	CO 15	5'	3.31	163.14 147.55	150.60	F3 05	5
4+20	36	8.25	142.61	144.80	F2 19	5'	10.68	140.18	143.80	F3 62	5
3+90	36 TP 12.58	150.86	0.64	138.35	F1 56	5	4.25	150.86 134.77	137.54	F2 97	5
3+70	36 TP 7.01	131.83	2.04	130.99	F3 05	5	6.99	132.03	133.98	F1 95	5
		2.04	136.78	134.98	<del>CO 15</del>	5	4.25	134.77		G0 25	5

139.02  
X

139.02  
X

8-28-50

Hendricks

Cota

Greer

Crawford

No #20693

State Extension of Culvert

End of Franciscan Way

Dwg. 4031-B

FB2099-R2

53

INDEXED

MK

DEC 5 1950

0+78.31 End 15" 19.33 291.74 290.75 C0<sup>99</sup> 4' R4

0+58.31 9.90 301.17 296.25 C4<sup>82</sup>

0+38.31 Beg 15" 6.37 304.70 301.75 C2<sup>95</sup>

0+38.31 End Existing 12" R.P. 304.70 301.75 C2<sup>95</sup>

B.M. 4.46 311.07 306.61 & DISC 0-30.84 (FB2099 R3)



9-1-50  
Hendricks  
Cota  
Greer  
Crawford  
WO# 20652

Slake Storm Drain  
Hazard Tract #1  
DWG. 8187-L

54

INDEXED  
MK  
DEC 5 1950

2+09.20 EC

16.20 13.87

C.2<sup>33</sup> /

2+00.49

16.16 13.89

C2<sup>27</sup> /

1+91.79 BC

16.09 13.92

C2<sup>17</sup> /

1+77.51 EC

15.88 13.96

C1<sup>92</sup> /

1+69.65

16.37 13.99

C2<sup>38</sup> /

1+61.80

16.40 14.01

C2<sup>39</sup> /

1+53.95 BC

16.43 14.04

C2<sup>39</sup> /

1+26.98

16.68 14.11

C2<sup>57</sup> /

1+00 Brc

16.60 14.19

C2<sup>41</sup> /

0+75

16.88 14.73

C2<sup>15</sup> /

0+50

17.11 15.27

C1<sup>84</sup> /

0+25 Brc

17.71 15.82

C1<sup>89</sup> /

0+00 End. Ex 18" Conc. Pipe

17.12 17.12

B17

1884

SWBP Littlefield's Derry

Storm Drain Contd

(CC stub)	1585	1589	on stub 5+80 FB 2057 P29
5+91.63 End.	11.31	11.00	C0 <sup>31</sup> ✓
5+61.08	16.40	11.66	C4 <sup>74</sup> ✓
5+30.54	16.41	12.33	C4 <sup>08</sup> ✓
5+00 Brk	15.73	13.00	C2 <sup>73</sup> ✓
4+60	16.25	13.12	C3 <sup>13</sup> ✓
4+20	16.06	13.24	C2 <sup>82</sup> ✓
3+80	15.65	13.36	C2 <sup>29</sup> ✓
3+40	15.40	13.48	C1 <sup>92</sup> ✓
3+00	15.37	13.60	C1 <sup>77</sup> ✓
2+73.81	16.02	13.68	C2 <sup>34</sup> ✓
2+47.63			
2+45.66 = EC	16.59	13.76	C2 <sup>83</sup> ✓
2+37.80	16.00	13.78	C2 <sup>22</sup> ✓
2+29.95	16.20	13.81	C2 <sup>39</sup> ✓
2+22.10 BC	16.24	13.83	C2 <sup>41</sup> ✓

96.50 Crows feet  
 Hendrick Santa Barbara St  
 HO# 31629 Newport to Niagara  
 Dwg. 7665-L

56

TP		Gutter Grade	SW 1/8 Disc RE 4847 Niagara & Santa Barbara	Gutter Grade
		198.54		
3+00	N line Niagara	196.47		196.52 ✓
2+80		196.02 ✓		196.06 ✓ ✓
2+65		195.68 ✓		195.71 ✓
2+40		195.11 ✓		195.12 ✓ ✓
2+20		194.65 ✓		194.65 ✓ ✓
1+90		193.97 ✓		193.95 ✓ ✓
1+62	Alley EC	193.32 ✓		193.29 ✓ ✓
1+38	Alley BC	193.05 ✓ 192.88 ✓		192.77 ✓ ✓
1+07.67		192.39 ✓		192.11 ✓
0+77.33		191.90		191.44 ✓ ✓
0+42	C.B. BC Rt.	191.41		190.78 ✓ ✓
0+20		190.97	#2	190.28 ✓
0+00	S line Newport	190.64	#1L	189.20 ✓
		189.97	BC appl.	189.14 ✓
		<del>187.73</del>	-25	188.37 ✓
B.M.		190.02	NWBP Newport & Santa Barbara	

INDEXED

MK

DEC 5 1950

96.50

Hendricks

W6#31629

Crows Pt.

Santa Barbara St.

Niagara to Harragansett

57

INDEXED

DEC 5 1950

MK.

Gutter  
GradeGutter  
Grade

G.W.

3+00 N Line Harragansett		217.09 ✓	216.77 ✓
2+52		215.58 ✓	214.97 ✓
2+44		213.47 ✓	213.16 ✓
2+16		211.66 ✓	211.35 ✓
1+88		209.85 ✓	209.54 ✓
1+62 EC Alley		208.17 ✓	207.86 ✓
TP	207.52		
1+38 BC Alley		206.58 ✓	206.28 ✓
1+12		205.13 ✓	204.75 ✓
0+84		203.56 ✓	203.10 ✓
0+56		201.99 ✓	201.45 ✓
0+28		200.42 ✓	199.80 ✓
0+00 S. Line Niagara		198.85 ✓	198.15 ✓

BM

198.84

SW 1/4 Oils RE 4847  
Niagara

Crows feet

Santa Barbara St.

Narragansett to Del Monte

58

INDEXED  
M.K.  
DEC. 5 1950

Gutter  
Grade

Gutter  
Grade

23749  
23744

N.E. BP Del Monte & Santa Barbara

3+00

23661 ✓

23672 ✓

2+72  
T.P.

236.01

23491 ✓

23497 ✓

2+44

23322 ✓

23322 ✓

2+16

C-C

23153 ✓

23147 ✓

1+88

22984 ✓

22972 ✓

P.L.

22853 ✓

22836 ✓

BC

22823 ✓

22806 ✓

1+62 EC

22827 ✓

22810 ✓

T.P. 110

228.01

22770 ✓

22754 ✓

EC

22712 ✓

22696 ✓

1+38 BC

22686 ✓

22668 ✓

1+10

D-D

22532 ✓

22502 ✓

0+80

22367 ✓

22323 ✓

0+50

22202 ✓

22145 ✓

0+35

B-B

22065 ✓

21996 ✓

0+00 20. Loc Narragansett

21928

21848 ✓

21870

SWBP Narragansett & Santa Barbara

Crows feet  
 Santa Barbara St.  
 Del Monte to Santa Cruz  
 Dwg 7666-L

59

INDEXED  
 MK  
 DEC 5 1950

	Gutter
3400 H. line Santa Cruz.	254.45
2472	253.02
2444	251.59
2416	250.16
1488	248.73
1462 PL BC EC	247.68 ✓ 247.31 ✓ 247.41 ✓
1438 PL EC BC	247.09 ✓ 246.47 ✓ 246.21 ✓
TP	245.79
1412	244.87
0484	243.41
0456	241.95
0428	240.49
0406 EC	239.03 ✓
0400 So. line Del Monte	
#2	
41 BC	49
B.17	237.44

Gutter	Cb
255.35	
253.80 ✓	
252.26 ✓	
250.72 ✓	
249.18 ✓	
248.11 ✓	
247.73 ✓	
247.75 ✓	
247.55 ✓	
246.83 ✓	
246.52 ✓	
245.02 ✓	
TP 244.23	
243.40 ✓	
241.78 ✓	
240.16 ✓	
239.07 ✓	
238.54 ✓	
238.66 ✓	
238.23 ✓	
237.82 ✓	
NE BP Del Monte &	Santa Barbara

Santa Barbara  
 Santa Cruz to Coronado  
 Dwg. 7667-L

60

INDEXED

MS  
 DEC 5 1950

Gutter

Gutter

240.08

240.10

- SWBP Santa Barbara  
 & Coronado

3+00 S Line Coronado

239.13

239.65

2+72

240.27

240.80

2+44

241.42

241.95

2+16

242.57

243.09

1+88

243.72

244.23

1+62

244.78

245.29

1+38

245.97

245.903

(247.31 ch)

1+12

246.20

246.63

0+84

247.60

248.08

0+56

249.10

249.64

0+28

250.60

251.20

0+00

252.10

252.76

H. Line Santa Cruz

253.60

254.32

R17

254.10

SEBP Santa Cruz & Santa Barbara

9-11-50

Hendricks  
Greer  
Cota

Cross feet

Santa Barbara

Coronado to Del Mar

Dwg 76674

INDEXED

MK  
DEC 5 1950

3+00 N. Line Del Mar

2+72

2+44

2+16

1+88

1+62

1+38

1+17

0+97

0+77

0+57

0+20

0+00 S. Line Coronado

BM.

Gutter  
Grade

246.59

245.78 ✓

244.98 ✓

244.17 ✓

243.37 ✓

242.62 ✓

241.87 ✓

241.23 ✓

240.61 ✓

240.00 ✓

239.39 ✓

239.01 ✓

238.81 ✓

240.10

Gutter  
Grade

247.63

246.82 ✓

246.00 ✓

245.18 ✓

244.36 ✓

243.60 ✓

242.95 ✓

242.39 ✓

241.66 ✓

241.03 ✓

240.40 ✓

239.89 ✓

239.62 ✓

SVLRP Santa Barbara Coronado

61



Crows feet  
 Santa Barbara  
 Del Mar to Orchard  
 Orig. 7668-L

62

INDEXED

mk  
 DEC 5 1950

Gutter Grade

Gutter Grade

B.M.		250.08	250.08	SEBP Orchard & Santa Barbara
3+00	N. line Orchard		250.43	251.26
2+80			250.73	251.56
2+55			251.10	251.94 ✓
2+30			251.47	252.32 ✓
2+05			251.84	252.70 ✓
1+80			252.22	253.08 ✓
1+62			252.48	253.36 ✓
1+38			252.45 ✓	253.35 ✓
1+20			252.13 ✓	253.03 ✓
0+90			251.39 ✓	252.19 ✓
0+60			250.64 ✓	251.35 ✓
0+30			249.89 ✓	250.51 ✓
0+00	S. line Del Mar		249.14 <sup>17</sup>	249.67 ✓
B.M.			250.36	SWBP Del Mar & Santa Barbara

Stake Cbs.  
Santa Barbara & Orchard  
 N.E. Corner.

63.

INDEXED  
 MK  
 DEC 5 1950

	Flr. Stake	Cb. No.	
0+75.34 Ex Cb	248.51	248.75 248.43	Ex Cb
0+50	249.52	249.77 247.25	FO 21 CO 25 ✓
0+20	250.66	251.27 250.33	FO 41 CO 33 ✓
0+10 EC Ret (Orchard)	250.76	251.68 250.24	11 CO 26 ✓
0+00		252.10	FO 10
3+00 BC Cb Ret (Santa Barbara)	252.00	251.10	CO 20 ✓
2+80	252.31	252.30 251.40	CO 21 out.
2+55	252.53	252.55 251.77	FO 02 CO 76 ✓
2+30	252.05	252.80 252.14	CO 27 CO 21 ✓ out.
2+05	252.95	253.11 252.21	CO 22 CO 21 ✓ FO 16
1+80	253.16	253.30 252.88	CO 24 CO 28 ✓ FO 14 ✓
1+62 EC Alley Ret.	253.35	253.48 253.17	CO 10 CO 24 ✓ FO 13
1+62 at P.L.	253.07	253.58 253.34	CO 19 CO 24 ✓ FO 51
1+38 at P.L.	253.92	253.50	CO 42 ✓
1+38 BC Alley Ret (Ex Cb)	253.31	253.30	Ex Cb

250.08

Cb Rets Orchard &  
Santa Barbara 25.41

64

	Swly Ret.	Elev. Stake	Elev. Ck	
+20			249.04	
EC Santa Barbara 1/1 Ret.		249.69	249.72	FO <sup>03</sup>
#1		249.47	250.09	FO <sup>62</sup> ✓
BC Orchard Pl.			249.88	EX CB
-11.4			249.07	"
-29.4			247.45	"
	Hwy Ret.			
+20				FO <sup>82</sup>
0+10 - EC Orchard		250.76	251.68	CO <sup>21</sup>   FO <sup>92</sup>
#2		251.06	251.89	FO <sup>83</sup>
#1		250.78	250.70	CO <sup>22</sup> ✓
		250.78	251.99	F121 ✓
		251.60	250.87	CO <sup>23</sup> ✓
3+00 - BC Santa Barbara		252.00	252.10	FO <sup>10</sup>
.20			251.70	CO <sup>22</sup>
	Hwy Ret.		251.40	
-30.5			249.45	
-10.5			251.07	
Prop line on Orchard		251.49	251.49	EX CB
#1		251.70	251.77	FO <sup>07</sup> ✓
3+00 - BC Santa Barbara		251.53	251.93	FO <sup>20</sup> ✓
-21.5		252.25	250.08	EX CB

SEBP Orchard & Santa Barbara

Orchard St  
 Santa Barbara to Venice

65

6+01.04 13C. Lt.  
 5+91.57 C6. BC. Rt

Gutter  
 Grade  
 217.90 ✓  
 218.41 ✓  
 219.82 ✓

Gutter  
 Grade Rt.

218.68 ✓  
 219.87 ✓

5+29.26

221.83 ✓

221.88 ✓

4+93.55

INDEXED  
 MK

223.84 ✓

223.89 ✓

4+57.84

DEC 5 1950

225.86 ✓

225.90 ✓

4+22.13

227.87 ✓

227.91 ✓

3+86.42

229.88 ✓

229.92 ✓

3+50.71

231.90 ✓

231.93 ✓

3+12

233.91 ✓

233.94 ✓

2+75

236.36 ✓

236.41

2+35

236.28 ✓

236.32 ✓

1+95

238.76 ✓

238.83 ✓

TP

238.65 ✓

238.70 ✓

1+55

241.13 ✓

241.36 ✓

1+15

241.03 ✓

241.08 ✓

0+75

243.56 ✓

243.69 ✓

0+50

243.41 ✓

243.46 ✓

0+20

245.98 ✓

246.12 ✓

0+00

245.78 ✓

245.84 ✓

247.92 ✓

247.92 ✓

247.78 ✓

247.76 ✓

248.90

249.63 ✓

248.83

248.83 ✓

249.73

249.26 ✓

249.66

249.08 ✓

250.10

249.59 ✓

249.95

249.85 ✓

0+00 E. Line Santa Barbara

250.08 SEAP Orchard & Santa Barbara

Crowsfoot  
Orchard St  
Venice to Catalina

66

B77

196.50

11 W Brass Plug Catalina  
& Orchard

5+53.84 ac. A.

5+20.92

4+88.01

4+55.10

4+40.10

4+13.21

3+86.30

3+57.39

3+32.48

3+05.57

2+72.57

2+46.09

2+19.58

1+91.07

1+66.56

1+40.05

1+13.54

0+87.03

0+60.52

0+34.01

or 10

0+07.5 EC Cabot. Ret.

0+00 E Line Venice

196.13

196.79 ✓

197.45 ✓

197.75 ✓

198.39 ✓

198.83 ✓

199.37 ✓

199.92 ✓

200.43 ✓

201.59 -

202.93 -

204.28 ✓

205.62 ✓

206.97 ✓

208.31 ✓

209.66 ✓

211.00 ✓

212.35 ✓

213.69 ✓

214.94 ✓

215.46

196.36 -

196.94 -

197.52 ✓

198.10 ✓

198.40 ✓

198.81 ✓

199.22 ✓

199.63 ✓

200.03 ✓

200.43 ✓

201.47 -

202.83 -

204.20 -

205.56 ✓

206.93 ✓

208.29 -

209.66 ✓

211.02 -

212.39 ✓

213.75 ✓

214.97 ✓

T.P. 205.10

INDEVED  
MK

State Co. West Side  
 Santa Barbara  
 Orchard to Pescadero

67

		Elev. Sta	Elev. Grad.	Top Hydt.
TBM #1		225.09	226.55	SE Santa Barbara & Pescadero
2198 BC		225.41	225.89	FO 48
		226.12	226.70	FO 58
2465		228.17	229.08	FO 91
2430		231.73	231.54	CO 19
1495		233.68	234.01	FO 32
1462 EC		237.12	236.32	CO 80
1462 PK		236.49	236.56	FO 07
1439 P.L.		237.93	238.10	FO 17
1438 BC		238.57	238.16	CO 41
1405		240.50	240.93	FO 43
0470		243.63	243.86	FO 23
0435		245.94	246.79	FO 85
0400 BC	Saline Orchard	249.69	249.72	FO 03
1317			250.08	SEBP Orchard & Santa Barbara

INDEXED

DEC 5 1950

MK

Stake Cb West side  
 Santa Barbara  
 Pescadero to Bermuda

		Elev. Stake	Elev. Grad	
BM			200.82	SWBP Santa Barbara & Bermuda
	EC	200.90	200.92	E+Cb. Aect
	#1	201.72	202.20	FO 7
2494 AC Ret.	#1	202.72	203.20	FO 8
		203.13	204.00	FO
2475		204.20	205.29	F109
2450		206.01	207.00	FO 99
2425		207.69	208.71	F102
2400	TP	209.32	210.42	F115
1462 EC	} Alley	212.03	213.04	F101
1462 PL		211.21	213.28	F207
1439 PL		212.17	214.85	F269
1439 AC		212.97	214.88	F191
1400	TP 21784	216.60	217.25	FO 65
0+66.67		218.43	219.50	F107
0+33.33		220.73	221.75	F102
0+00	BC 50 line Pescadero	223.30	224.00	FO 70
#1		224.12	224.02	CO 10
		223.72	223.76	Exc.
		226.54	226.53	SE Top Hydt. Santa Barbara & Pescadero
BM			200.82	SWBP Bermuda & Santa Barbara

INDEXED  
 MK  
 DEC 5 1950

State Obs  
Santa Barbara  
Bermuda to Point Loma Ave

Dring 7669-L (18229) 18226

Elev. Stage Elev. Gr

EL PL	190.51	189.47
2+73.52 AL 25' CLR	190.19	189.10
2+43.56	191.31	189.50
2+13.61	192.34	191.12
1+83.65	193.51	192.74
1+53.70	194.98 <del>194.97</del>	194.36
1+53.70 PL TP	193.27	194.57
1+29.70 PL	195.91	194.57
1+29.70	198.68	195.66
1+29.70	195.71 <del>195.75</del>	195.68
1+01.21	196.90	197.23
0+72.71	199.06	198.78
0+44.21	201.27	200.34
0+15.71 (Brk) Beg Newcl H	201.79	201.89
0+06 BC Rt		
0+00		
		200.83

INDEXED  
MK

DEC

5 1950

69

SWBP Point Loma  
& Santa Barbara

Elev. Grade

CI <sup>01</sup>			
CI <sup>09</sup>			
CI <sup>11</sup>			
CI <sup>22</sup>			
CO <sup>77</sup>			
CO <sup>62</sup>			
CO <sup>61</sup>	(193.18)	(193.29)	Ex Cb
CI <sup>34</sup>	192.11	193.49	FI <sup>38</sup>
CI <sup>32</sup>	193.34	194.63	FI <sup>29</sup>
CO <sup>03</sup>	193.71	194.65	FO <sup>94</sup>
CO <sup>27</sup> ✓	196.09	196.28	FO <sup>19</sup>
FO <sup>33</sup> ✓	197.39	197.90	FO <sup>51</sup>
CO <sup>29</sup> ✓	199.34	199.52	FO <sup>18</sup>
CO <sup>93</sup> ✓	200.95	201.14	FO <sup>19</sup>
	201.53	201.42	CO <sup>11</sup>
#2	201.59	201.40	CO <sup>19</sup>
#1	201.20	200.93	CO <sup>27</sup>
BC	200.00	200.06	Ex Cb
SWBP. Bermuda & Santa Barbara			
= 15.		198.31	



Crows feet.

Del Monte Ave

Santa Barbara to Guizot

21806 21803

SNBP Guizot & Del Monte

70

Elev. Gutter

Elev. Gutter

6+60.10 W Line on No. Dring 17672-6 216.31

6+30.10 215.85

6+00.10 E Line Guizot North 215.92

5+60 W Line Guizot South 217.44 ✓

(5+30 Rt)

5+00 E Line Guizot South 218.75 ✓

4+90 219.00 ✓

4+50 220.42 ✓

4+40 220.82 ✓

3+98 222.48 ✓

3+56 224.14 ✓

3+14 225.80 ✓

2+72 227.46 ✓

2+30 229.12 ✓

1+88 230.78 ✓

1+46 232.44 ✓

1+04 234.10 ✓

0+62 235.76 ✓

0+20 237.42 ✓

0+00 238.21 ✓

B17

237.49

TP 22095

TP 23026

NEBP Santa Barbara & Del Monte

INDEXED

MK

DEC 5 1950

Stake Cbs Del Monte  
& Guizot St.

INDEXED  
MK  
DEC 5 1950

71

11 VI Ret. Guizot & Del Monte

EC Del Monte 215.05 215.25

FO<sup>20</sup>

H1 214.55 214.72

FO<sup>17</sup>

BC Guizot Ex. Cb. = 214.20 214.27

~~FO<sup>07</sup>~~ Ex Cb.

6+60.10  
1+00.49 217.00 217.06

FO<sup>05</sup>

6+30.10  
0+70.70 216.29 216.36

FO<sup>07</sup>

0+40.10 Beg New Cb. (216.54) <sup>216.54</sup> 216.59

Ex. Cb.

0+00 W line Guizot St.  
on south.

B.17 218.03

SWP Guizot & Del Monte

Cross feet

Del Monte Ave

Santa Barbara to Venice

72

6+00		211.92	✓	211.73
5+70	T.P. 213.75	213.54	✓	213.44 ✓
5+40		215.16	✓	215.15 ✓
5+10		216.78	✓	216.86 ✓
4+80		218.40	✓	218.58 ✓
4 50.00		220.03	✓	220.30
4+18.75	T.P. 222.80	221.93	✓	222.24 ✓
3+ 87.50		222.83	✓	224.78 ✓
3+ 56.25		225.73	✓	226.12 ✓
3+ 25.00		227.63	✓	228.06 ✓
2+ 93.75		229.53	✓	230.00
2+62.50	T.P. 230.91	231.43	✓	231.94 ✓
2+31.25		233.33	✓	233.68 ✓
2+00 E.V.C		235.24	✓	235.81 ✓
1+80		236.30	✓	236.95 ✓
1+60		237.15	✓	237.98 ✓
1+40		237.79	✓	238.75 ✓
1+20		238.20	✓	239.25 ✓
1+00		238.35	✓	239.62 ✓
0+80		238.31	✓	239.85 ✓
0+60		238.20	✓	239.75 ✓
0+40		237.90	✓	239.45 ✓
0+20		237.86	✓	239.06 ✓
0+00 E. Line Santa Barbara		237.19	✓	238.67 ✓
B.M		237.49		

INDEXED  
MK  
DEC 5 1950

N.E.B.P. Santa Barbara & Del Monte

9.14-80  
Hendricks

Crows feet  
Del Monte

Venice to Catalina  
(Dwg 7621-L)

191.42

73

4194.47 BCLT

4170.65 BCLT

4142.82

4+15

4+00

3+70

3+60

3+40

3+20

3+00

2+80

2+60

2+35

2+10

1+90

1+70

1+50

1+30

1+10

0+90

0+70

0+50

0+30

0+00 E Line Venice

BM

TP 164.35

TP 173.09

INDEXED  
MK

DEC 5 1950

(159.45 Ev Pa)

160.79 ✓

163.66 ✓

166.54 ✓

168.13 ✓

171.24 ✓

172.30 ✓

174.50 ✓

177.00

179.44

182.50

185.54

189.20 ✓

192.75 ✓

195.46 ✓

198.03 ✓

198.20 ✓

199.95

201.70 ✓

203.10 ✓

204.45 ✓

205.65 ✓

206.80 ✓

207.90 ✓

209.19

157.52

A+17

3+98

TP 191.42

200.85

(160.22) (Ev Pa)

160.60 ✓

162.23 ✓

165.48 ✓

168.49 ✓

170.08 ✓

172.96 ✓

173.95 ✓

176.20 ✓

178.51 ✓

180.94 ✓

183.85 ✓

187.04 ✓

190.68 ✓

194.30 ✓

197.00 ✓

199.70 ✓

199.77 ✓

201.65 ✓

203.15 ✓

204.54 ✓

205.70 ✓

206.70 ✓

207.55 ✓

208.35 ✓

209.29 ✓

NEBP Narragansett & Catalina

State Cbs North side  
 Del Monte  
 Venice to Catalina

74

INDEXED  
 MK  
 DEC 5 1950

Ch Gr.

175.00

Ex Cb

3+33	End New Cb	175.70	175.88	1.18
3+20		177.60	177.50	CO <sup>10</sup>
3+00		180.21	179.97	CO <sup>27</sup>
2+80		183.05	183.00	CO <sup>05</sup>
2+60		185.98	186.04	FD <sup>06</sup>
2+35	Beg New Cb	189.70	189.70	Ex Cb

187.52

NEBP Harragansett & Catalina

Venice  
Del Mar to Orchard

221.48  
221.45

75

		Gutter			
3+00	N. Line Orchard	216.03	✓		217.78 / Gutter
2+72		216.55	✓		218.28 ✓ "
2+44		217.08	✓		218.79 ✓ "
2+16		217.60	✓		219.30 ✓ "
1+88		218.13	✓		219.81 ✓ "
1+62		218.62	✓		220.28 ✓ "
1+62 PL		219.10	✓		220.75 "
1+38 PL		219.35	✓	CO <sup>23</sup> 221.98	221.55 CB.
1+38		218.99	✓	FO <sup>34</sup> 221.05	221.39 "
1+12		219.45	✓	FO <sup>21</sup> 221.63	221.84 "
0+84		219.94	✓	FO <sup>08</sup> 222.24	222.32 "
0+56		220.44	✓	CO <sup>14</sup> 222.54	222.80 "
0+28		220.93	✓	CO <sup>18</sup> 223.46	223.28 "
0+00	So Line Del Mar	(221.41) 221.42	(L.P. Par)	(223.81 E)	223.76 CB.
		218.73			SWBP Orchard & Venice

INDEXED  
5 1950  
DFC

WYO# 31220  
Hendricks  
Co 49  
Crawford  
9-16-58  
2770

State Cbs G 51  
25th to 26th

Dwg. 7783-L Cb Grade

Cb Grade 76

INDEVED

MK  
F 1050

DFC

2+43		136.12	136.01	CO <sup>11</sup> ✓	135.04	135.01	CO <sup>03</sup>
2+16		140.50	140.51	FO <sup>01</sup> ✓	(TP 139.49) 139.72	139.51	CO <sup>21</sup>
1+89		144.81	145.02	FO <sup>21</sup> ✓	144.34	144.02	CO <sup>32</sup>
1+62	EC Alley Ret.	149.55	149.52	CO <sup>03</sup> ✓	TP 146.34 148.57	148.52	CO <sup>05</sup>
1+62	PK	153.83	154.03	FO <sup>29</sup> ✓	152.62	153.03	FO <sup>41</sup>
1+38	PK	154.60	154.56	CO <sup>04</sup> ✓	152.90	153.56	FO <sup>66</sup>
1+38	BC Alley Ret.	156.29	157.52	FI <sup>23</sup> ✓	156.03	156.52	FO <sup>49</sup> ✓
1+16		156.85	157.61	FO <sup>76</sup> ✓	156.40	156.61	FO <sup>31</sup>
0+94		160.46	160.88	FO <sup>42</sup> ✓	159.73	159.88	FO <sup>15</sup>
0+74		163.76	164.14	FO <sup>38</sup> ✓	162.21	163.14	FO <sup>93</sup>
0+74		166.05	166.68	FO <sup>63</sup> ✓	T.P. 162.95 164.53	165.68	FI <sup>15</sup>
0+54		168.44	168.37	CO <sup>07</sup> ✓	167.47	167.37	CO <sup>10</sup>
0+30		170.11	169.90	CO <sup>21</sup> ✓	169.12	168.90	CO <sup>22</sup>
0+20		170.31	170.49	FO <sup>18</sup> ✓	168.85	169.43	FO <sup>58</sup>
0+10		171.15	170.97	CO <sup>18</sup> ✓	169.01	169.72	FO <sup>71</sup>
0+00	EC Cb Ret.	171.55	171.40	CO <sup>15</sup> ✓	169.81	169.90	FO <sup>09</sup>
#1		171.80				170.00	
# BC 25th		172.21		EX Cb		169.92	
B17		172.10		NWB P 25th & G			

B.M.	(172.01)	171.99	SWBP 26th. 8 G			
E.C. 36th.	174.02	174.03	E.C.	172.03	172.01	E.C.
# 2	178.93	173.90	CO <sup>03</sup>	171.78 172.05	172.20	FO <sup>42</sup> FO <sup>12</sup>
# 1	173.50	173.24	CO <sup>26</sup>	171.88	171.90	FO <sup>02</sup>
5+50 BC Ret.	172.69	172.00	CO <sup>68</sup>	170.90	171.00	FO <sup>10</sup>
5+18	168.94	165.30	CO <sup>64</sup> - T.P.	164.42	164.30	CO <sup>12</sup>
4+86	159.18	158.61	CO <sup>57</sup>	158.12	157.61	CO <sup>51</sup>
4+54	TP 155.22 151.91	151.92	FO <sup>01</sup>	151.11	150.92	CO <sup>9</sup>
4+22	TP 145.66 145.02	145.23	FO <sup>21</sup>	143.83	144.23	FO <sup>40</sup>
3+90	138.20	138.84	FO <sup>34</sup>	137.26	137.54	FO <sup>28</sup>
3+70	134.75	134.98	FO <sup>23</sup>	133.69	133.98	FO <sup>29</sup>
3+50	132.55	132.68	FO <sup>13</sup>	131.48	131.68	FO <sup>29</sup>
3+30	131.64	131.64	CO <sup>00</sup>	130.31	130.64	FO <sup>33</sup>
3+10	131.91	131.84	CO <sup>07</sup>	130.43	130.84	FO <sup>41</sup>
2+90	133.28	133.30	FO <sup>02</sup>	131.96	132.30	FO <sup>34</sup>



9-18-50

Crows feet

Hendricks

Niagara St

Cota

Crawford Santa Barbara to Venice

Greer

Dwg. 7670K

VVO # 31629

6+00 rv line Venice

218.87

217.16 ✓

5+70

219.53 ✓

217.78 ✓

5+35

220.26 ✓

218.80 ✓

5+00

220.99 ✓

219.22 ✓

4+65

221.83 ✓

219.75 ✓

4+50

221.45 ✓

219.67 ✓

4+20

220.61 ✓

218.87 ✓

4+00

TR 220.13

219.32 ✓

217.76 ✓

3+60

216.37 ✓

215.09 ✓

3+20

213.45 ✓

212.43 ✓

2+80

TR 211.22

210.52 ✓

209.76 ✓

2+40

207.59 ✓

207.10 ✓

2+00

204.66 ✓

204.43 ✓

1+75

203.11 ✓

203.07 ✓

1+50

TR 202.67

201.93 ✓

202.17 ✓

1+25

200.95 ✓

201.48 ✓

1+00

200.09 ✓

200.90 ✓

0+75

199.36 ✓

200.33 ✓

0+50

198.64 ✓

199.76 ✓

0+25

197.91 ✓

199.27 ✓

0+00 E Line Santa Barbara

197.19 ✓

198.78 ✓

B77

198.54

(SW L &amp; Oiss. Niagara &amp; Santa Barbara)

25670

78

INDEXED

MK  
DEC 5 1950

Stake Curbs  
Santa Barbara  
Newport to Niagara

79

		cb		cb		
3+00	N. of Niagara	197.14		197.19		
<del>2+80</del>		196.67		196.73		
2+65		196.32		196.30	196.37	FO <sup>07</sup>
2+40		195.73		195.62	195.79	FO <sup>17</sup>
2+20		195.36		195.22	195.32	FO <sup>10</sup>
1+92		194.60		194.60	194.67	FO <sup>07</sup>
1+62 EC Alley		193.89		194.04	193.97	CO <sup>07</sup>
1+62 at PL		193.82	cb gutter	193.98	193.96	CO <sup>02</sup>
1+38 at PL		193.79	Grade	194.18	194.12	CO <sup>06</sup>
1+38 BC Alley		193.67	FO <sup>12</sup>	194.36	193.70	CO <sup>66</sup> ✓
1+07.67		193.56	CO <sup>98</sup> Alley	193.55	193.55	FO <sup>14</sup>
0+77.33		193.54	CO <sup>103</sup>	193.41	193.44	FO <sup>03</sup>
0+47	cb BC Rt.	193.20	CO <sup>13</sup> ✓	193.02	192.78	CO <sup>24</sup> ✓
0+20		192.68	CO <sup>15</sup> ✓	191.92	192.11	FO <sup>17</sup> ✓
0+00	J Line Newport	192.17	CO <sup>16</sup> ✓	(SW) 191.51	191.45	FO <sup>03</sup>
B.M.		192.01	BC	(SW) 191.42		
		191.71	CO <sup>15</sup> ✓	(SW) 191.10		
		191.56	-13.5	191.09	191.05	CO <sup>04</sup>
		(191.16)	EX cb	(SW 190.69)	190.64	CO <sup>04</sup>
		191.22	-27	190.68		
			(SW 190.18)		190.13	CO <sup>02</sup>
			-54		189.61	EX cb
		189.97	N.W. BP Newport & Santa Barbara			

INDEXED  
MK  
DEC 5 1950

State Ob.  
 Santa Barbara  
 Niagara to Narragansett

C.B.

INDEXED

DEC 5 1950

3200		217.35	
2172		215.63	215.55 CO <sup>08</sup>
2144		213.97	213.76 CO <sup>21</sup>
2118		212.16	212.10 CO <sup>06</sup>
1488		210.22	210.19 CO <sup>03</sup>
1462	EL Alley	208.72	208.48 CO <sup>24</sup> 208.52 CO <sup>20</sup>
1462	at PK	209.11	208.61 CO <sup>50</sup>
1438	11	207.08	207.25 FO <sup>17</sup>
1439	13C	206.84 <del>206.80</del>	207.08 FO <sup>24</sup> <del>FO<sup>22</sup></del>
1412		205.18	205.39 FO <sup>21</sup>
0186		203.79	203.86 FO <sup>08</sup>
0156		202.23	202.10 CO <sup>13</sup> <del>FO<sup>22</sup></del>
0128		200.34	200.46 FO <sup>12</sup>
0100		198.82	meed

B17

198.54

Elev Stone Lt. Ch.

(11107 4' back)

209.07 208.77 CO<sup>30</sup>

209.11 208.92 CO<sup>19</sup>

207.97 207.57 CO<sup>30</sup>

207.14 207.42 FO<sup>18</sup>

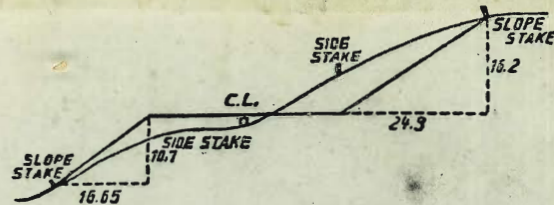
FO<sup>03</sup>

566

LB Disc. RE 4847 Niagara & Santa Barbara

171.99 SW 36/88 2' 3.78  
 305  
 175  
 329 1  
 329 1  
 65.12 27  
 19578  
 74  
 58

504.74  
 18224  
 16375  
 2570  
 1370  
 77.75  
 124  
 6635  
 6710  
 177.50  
 92  
 162  
 17588  
 77.75  
 6710  
 1062  
 945  
 1.20  
 17524  
 366  
 17178  
 19939  
 103  
 1943



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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