

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.

USGS VENICE #2  
SW. 1/4 NEWPORT 229.69  
SANTA B. 3 DEL MONTE  
NE 1/4 237.49

MICROFILMED

APR 14 1965

1  
2  
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60  
3

	0
0	0.00
1	1.00
2	2.00
3	3.00
4	4.00
5	5.00
6	6.00
7	7.00
8	8.00
9	9.00
10	10.00
11	11.00
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13	13.00
14	14.00
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19	19.00
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22	22.00
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25	25.00
26	26.00
27	27.00
28	28.00
29	29.00
30	30.00
31	31.00
32	32.00
33	33.00
34	34.00
35	35.00
36	36.00
37	37.00
38	38.00
39	39.00
40	40.00
41	41.00
42	42.00
43	43.00
44	44.00
45	45.00
46	46.00
47	47.00
48	48.00
49	49.00
50	50.00

Distance  
ground is ne  
column and  
side stake to  
side stake at  
cut or fill an  
If it does no

DIRECTIONS FOR USE OF TABLES

TABLE XIV

Distance of slope from side of shoulder  
state for roadway roadway, slope 1 1/2 to 1

IMPROVED TABLES  
AND  
INFORMATION

1  
3  
5  
7  
0  
1  
3  
5  
7  
1  
2  
4  
7  
0  
43  
5  
8  
9  
1  
2  
3  
6  
9  
60  
3

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	.032	.037	.043	.049	.054	.061	.067
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	.677	.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	.985	1.06	1.25	1.43	1.62	1.80	1.99	2.18	2.38	2.58
100°	.200	.401	.604	.809	1.01	1.22	1.43	1.64	1.85	2.06	2.28	2.50	2.73	2.96
110°	.268	.536	.806	1.08	1.35	1.63	1.91	2.20	2.48	2.76	3.05	3.35	3.66	3.96
120°	.360	.721	1.08	1.45	1.82	2.19	2.57	2.95	3.33	3.72	4.11	4.50	4.91	5.32

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198, 199, 200, 201

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Riberts  
Lota  
Moore  
Clark  
1-2-51  
wt. 6020

Stake Water Services  
Alleg BIK 198, 199, 200 & 201  
Mission Beach

7940 L

0+51 Lt.

$$\begin{array}{r} 385 \\ -1.00 \\ \hline 485 \end{array}$$
  
Same as 11

0+50 Lt.

$$\begin{array}{r} 385 \\ -1.01 \\ 486 \\ \hline 395 \\ \hline C 0.91 \end{array}$$

0+34 Rt.

$$\begin{array}{r} 385 \\ -1.08 \\ 493 \\ \hline 484 \\ \hline C 0.09 \end{array}$$

0+19 Rt.

$$\begin{array}{r} 385 \\ -1.13 \\ 498 \\ \hline 481 \\ \hline C 0.77 \end{array}$$
 → X

0+00 E.L. Bagide BK 201

B/M

$$\begin{array}{r} 385 \\ \hline \end{array}$$
 Jimmy 3

7.08 SWBP Sun Jan

INDEXED  
AUG 27 1952

0+84 Rt

$$\begin{array}{r} 385 \\ -0.73 \\ 458 \\ \hline 398 \\ \hline C 0.60 \end{array}$$

0+60 Rt

$$\begin{array}{r} 385 \\ -0.62 \\ 447 \\ \hline 415 \\ \hline C 0.32 \end{array}$$

0+53 Rt

$$\begin{array}{r} 385 \\ -0.59 \\ 444 \\ \hline 436 \\ \hline C 0.08 \end{array}$$

0+17 Rt

$$\begin{array}{r} 385 \\ -0.50 \\ 435 \\ \hline 410 \\ \hline C 0.25 \end{array}$$

0+08 Lt

$$\begin{array}{r} 385 \\ -0.54 \\ 439 \\ \hline 406 \\ \hline C 0.33 \end{array}$$

0+00 E.L. Mission Blvd

Place ~~5~~ Seal Hall

$$\begin{array}{r} 385 \\ \hline \end{array}$$
 Jimmy 3

1460 Rt

$$\begin{array}{r} 385 \\ -1.07 \\ 492 \\ \underline{477} \\ C0.15 \end{array}$$

T.P. 1.34 7.25 370 591

1452 Lt

$$\begin{array}{r} 385 \\ -1.03 \\ 488 \\ \underline{439} \\ C0.99 \end{array}$$

0+53 Lt

$$\begin{array}{r} 961 \\ 5.20 \\ 4.41 \\ \underline{427} \\ C0.14 \end{array}$$

1442 Lt

$$\begin{array}{r} 385 \\ -0.99 \\ 484 \\ \underline{482} \\ C0.02 \end{array}$$

0+42 Rt

$$\begin{array}{r} 961 \\ 5.36 \\ 4.25 \\ 383 \\ \underline{C0.42} \end{array}$$

1436 Rt

$$\begin{array}{r} 385 \\ -0.96 \\ 481 \\ \underline{471} \\ C0.10 \end{array}$$

0+29 Lt

$$\begin{array}{r} 961 \\ 5.57 \\ 4.04 \\ \underline{364} \\ C0.40 \end{array}$$

1418 Rt

$$\begin{array}{r} 385 \\ -0.88 \\ 473 \\ \underline{447} \\ C0.26 \end{array}$$

0+22 Lt

$$\begin{array}{r} 961 \\ 3.69 \\ 3.92 \\ \underline{332} \\ C0.60 \end{array}$$

1411 Lt

$$\begin{array}{r} 385 \\ -0.85 \\ 470 \\ \underline{484} \\ F0.14 \end{array}$$

0+17 Rt

$$\begin{array}{r} 961 \\ 5.73 \\ 3.88 \\ \underline{369} \\ C-0.19 \end{array}$$

0+97 Lt

$$\begin{array}{r} 385 \\ -0.78 \\ 463 \\ \underline{473} \\ F0.10 \end{array}$$

0+06 BIK 196 w.r. Stand

$$\begin{array}{r} 385 \\ \hline \end{array}$$

BM

253 9.61

7.08 on pg 1

0+59 RL

725  
3.04  
421  
404  
C 0.17

0+46 Lt

725  
3.75  
350  
331  
C 0.19

T.P.

3.10

3.85  
A

6.50

0.75

to Page 1

0+38 RL

725  
4.12  
313  
303  
C 0.10

1+47 Lt

725  
0.28  
6.97  
6.79  
C 0.18

0+26 RL

725  
4.69  
2.56  
262  
F 0.06

1+22 RL

725  
0.92  
6.33  
6.42  
F 0.09

0+23 Lt

725  
4.83  
2.42  
150  
C 0.92

0+13 RL

725  
1.57  
5.68  
5.48  
C 0.20

0+00 BK 199 E.L. Strand

0+67 Lt

725  
2.78  
4.47  
4.83  
F 0.36

7.25  
A

7.25  
A



Roberts  
Cota  
Moore  
Clark  
1-4-51  
WA60020

Stake Water Services Alley  
BIR 194, 195, 196 & 197  
Mission Beach

7939L

0+53 Rt

845  
6.00  
245  
219  
          
C 0.26

0+66 Rt

845  
4.11  
434  
          
444  
F 0.10

0+51 Lt

845  
6.04  
241  
234  
          
C 0.07

0+50 Rt

845  
4.64  
381  
358  
          
C 0.23

0+29 Rt

845  
6.47  
1.98  
          
147  
C 0.51

0+48 Lt

845  
6.93  
3.52  
          
544  
C 0.08

0+24 Rt

845  
6.57  
1.88  
          
112  
C 0.76

0+21 Lt

845  
6.25  
2.20  
          
235  
F 0.15

0+09 Lt

8.45  
6.87  
1.58  
120  
          
C 0.38

0+20 Rt

845  
6.26  
2.19  
          
210  
C 0.09

0+00 W.L. Strand BIR 197

0+00 E.L. Strand BIR 196

BM

1.73

8.45  
          
A

6.72

A Disc  
Strandway  
# Alloys

8.45  
          
A

452  
409  
-0.43 = 0.42  
at 6 walk  
0+58.63  
& alley

409  
-0.47  
456 stub  
480  
409

1+73 Lt  
409  
-1.35  
544  
484  
0.60

0+54 Rt

409  
-0.68  
477  
460  
0.17

1+70 Rt  
409  
-1.33  
542  
519  
0.23

0+53 R  
409  
-0.80  
489  
477  
0.12

1+61 Rt  
409  
-1.27  
536  
518  
0.18

0+17 Rt

409  
-0.91  
500  
500  
GRADE

1+20 Lt  
409  
-1.02  
511  
492  
0.19

0+01 Lt

1+11 Rt  
409  
-0.96  
505  
488  
0.17

0+00 EL Baugside BIKIX

409  
↑

409  
↑

Roberts  
Cott  
Moore  
Clark  
1-5-51  
NO 20499

Stako Storm Drain  
Santa Margarita to Imperial

4153B  
168.83  
155.87  
12.96  
884  
C 412

Grade  
1+36 Break  
168.83  
156.92  
11.91  
782  
C 4.09

1+02  
168.83  
158.96  
9.87  
575  
C 4.12

0+68  
168.83  
161.00  
7.83  
490  
C 2.93

0+34  
Stako 10 ft per Road  
168.83  
163.04  
5.79  
179  
C 4.00

0+00 Exist  
Santa Margarita  
168.83  
165.08  
3.75  
3.70

T.P. 1.47 168.83 + 12.62 167.36  
T.P. 1.83 179.98 12.71 178.15

BM 1.41 190.86 189.45 & CT  
Churchward of  
San Jacinto

INDEXED  
AUG 27 1952

7

3+13.58 Level check Exist Drain

168.83  
150.93  
17.90  
17.79  
0.11 ✓

2+86.53 S.L. Imperial END

168.83  
151.65  
17.18  
11.20  
C 5.98

2+56

168.83  
152.72  
16.11  
10.69  
C 5.42

2+26

168.83  
153.77  
15.06  
10.18  
C 4.88

1+96

168.83  
154.82  
14.01  
9.56  
C 4.45

168.83  
⌈

Roberts  
Moore  
Clark  
1-8-51  
W.P. 60020

Stake Water Meters Alleys 187 & 188  
Mission Beach

8068L

BM

INDEXED  
AUG 27 1952

-0.36 SWBP  
San Jose &  
Mission

0+86 Rt

746  
1.57  
5.89  
6.17  
F0.28

0+57 Lt

746  
3.28  
4.18  
4.43  
F0.25

0+44 Rt

746  
3.98  
3.48  
3.64  
F0.16

T.P

4.11

4.74

6.83

0.63

0+88 Rt

746  
5.98  
1.48  
1.49  
F0.01

1+44 Rt

746

0.41

7.05

6.05

C1.00

0+02 Lt

746  
6.94  
0.52  
0.80  
F0.28

1+36 Lt

746  
0.49  
6.97  
6.58  
C0.47

0+00

EL. Strandway  
Alley 188

1+02 Lt ③

746  
1.02  
6.44  
5.91  
C0.53

T.P

0.36

7.46

2.52

7.10

BM

2.54

7.46  
9.62

7.08

SWBP

San Jose & Seawall

7.46

0782 Lt  

$$\begin{array}{r} 474 \\ -0.34 \\ \hline 508 \\ \hline 491 \\ \hline C0.17 \end{array}$$

1758 Rt  

$$\begin{array}{r} 474 \\ -0.54 \\ \hline 528 \\ \hline 536 \\ \hline F0.08 \end{array}$$

0763 Rt  

$$\begin{array}{r} 474 \\ -0.35 \\ \hline 509 \\ \hline 531 \\ \hline F0.22 \end{array}$$

1751 Lt  

$$\begin{array}{r} 474 \\ -0.52 \\ \hline 526 \\ \hline 549 \\ \hline F0.23 \end{array}$$

0755 Rt  

$$\begin{array}{r} 474 \\ -0.37 \\ \hline 511 \\ \hline 513 \\ \hline F0.02 \end{array}$$

1736 Rt  

$$\begin{array}{r} 474 \\ -0.48 \\ \hline 522 \\ \hline 506 \\ \hline C0.16 \end{array}$$

0740 Rt  

$$\begin{array}{r} 474 \\ -0.42 \\ \hline 516 \\ \hline 524 \\ \hline F0.08 \end{array}$$

1732 Lt  

$$\begin{array}{r} 474 \\ -0.47 \\ \hline 521 \\ \hline 547 \\ \hline F0.26 \end{array}$$

0730 Lt  

$$\begin{array}{r} 474 \\ -0.45 \\ \hline 519 \\ \hline 501 \\ \hline C0.18 \end{array}$$

1710 Lt  

$$\begin{array}{r} 474 \\ -0.42 \\ \hline 516 \\ \hline 499 \\ \hline C0.19 \end{array}$$

ELMision  
 0700 Alley 187

0792 Rt

$$\begin{array}{r} 474 \\ -0.37 \\ \hline 511 \\ \hline 519 \\ \hline F0.08 \end{array}$$

474 from page 8

474 T

Cont'd From page 9

check

4.42 0.12 = 0.13 Rim MH 1480.8 FB 1759 pg 27

2703 Lt

974  
- 0.65  
539  
562  
F 0.23

1788 Rt

474  
- 0.61  
535  
522  
C 0.13

4.74 X

Robert  
Cota  
Moore  
Clark  
1-17-51  
w.p. 20755

Stake Storm Drain  
In 6th St. Extension to Wash. St.

8604L

275.21  
255.37  
19.84  
8.78  
C 11.06

1+25

1+00

275.21  
258.21  
17.00  
7.62  
C 9.38

0+75

275.21  
261.05  
14.16  
6.93  
C 7.23

0+50

275.21  
263.89  
11.32  
5.92  
C 5.90

0+25

275.21  
266.73  
8.48  
3.74  
C 4.54

0+00 END EXIST  
18" C. Invert

269.57

BM

5.64

275.21

^

INVERT  
269.57 EXIST 18" C. 0+00

INDEXED

AUG 27 1952

2+79<sup>50</sup> BRK

260.95  
239.34  
21.61  
13.72  
C 7.89

2+50

260.95  
242.29  
18.66  
10.92  
C 7.74

2+25

260.95  
244.79  
16.16  
9.86  
C 6.30

2+00

260.95  
247.29  
13.66  
7.30  
C 6.36

~~1+75~~

~~249.79~~

1+67<sup>50</sup> BRK

260.95  
250.54  
10.41  
3.96  
C 6.45

T.P. 156 260.95 ^ 15.82 259.39 1+50

275.21  
252.53  
22.68  
15.82  
C 6.86

275.21X

3+93<sup>74</sup> Cleanout  
 correct Exist.  
 260.95  
 232.70  
 28.25  
 15.01  
 C 13.24

3+75  
 260.95  
 233.73  
 27.22  
 14.09  
 C 13.13

3+50  
 260.95  
 235.11  
 25.84  
 17.95  
 C 7.89

3+25  
 260.95  
 236.48  
 24.47  
 16.02  
 C 8.45

2+95<sup>50</sup> BRK  
 260.95  
 238.10  
 22.85  
 16.01  
 C 6.84

2+87<sup>50</sup> BRK  
 260.95  
 238.66  
 22.29  
 13.62  
 C 8.67

260.95 X

Check

5.72 269.58 = 269.57

T.P. 14.54 275.30

0.19 260.76

260.95 X



Roberts  
Cota  
Moore  
Clark  
1-22-51  
W.O. 31773

Rough Grade Stakes Thomas

Fannell to Gresham

Gutter Grades

82261

1770  
38.12  
32.28  
5.84  
43  
C 1.5

38.12  
31.83  
6.29  
51  
C 1.2

1730  
38.12  
31.79  
6.33  
49  
C 1.4

38.12  
31.34  
6.78  
59  
C 1.1

0+90  
38.12  
31.30  
6.82  
55  
C 1.3

38.12  
30.86  
7.26  
58  
C 1.5

0+50  
38.12  
30.81  
7.31  
47  
C 2.6

38.12  
30.37  
7.75  
60  
C 1.8

0+10  
30.32  
29.89

0+00 E.L. Fannell  
38.12  
30.24  
7.88

38.12  
29.80  
8.32

BM 5.94 38.12

32.18 SE cor

4+10  
41.57  
35.22  
6.15  
41  
C 2.1

T.P. 4.31 41.57A

3770  
38.12  
34.73  
3.39  
1.06  
C 2.3

3+30  
38.12  
34.24  
3.88  
15  
C 2.4

2+90  
38.12  
33.75  
4.37  
21  
C 2.3

2+50  
38.12  
33.26  
4.86  
30  
C 1.9

2+10  
38.12  
32.77  
5.35  
34  
C 2.0

Fannell & Thomas Top. Fire Hyd.

INDEXED

AUG 27 1952

13

41.57  
34.74  
6.63  
53  
C 1.3

106 37.06

3812  
34.25  
3.87  
2.1  
C 1.8

38.12  
33.77  
4.35  
24  
C 2.0

38.12  
33.28  
4.84  
28  
C 2.0

38.12  
32.80  
5.32  
36  
C 1.9

38.12  
32.31  
5.81  
44  
C 1.4

38.12A

check 9.21 32.16 = 32.18

4799<sup>69</sup> W.P.L.  
Gresham

41.37  
36.35  
5.02  
38  
C 1.2

41.37  
35.88  
5.49  
50  
C 0.5

~~4790 B.C.~~

~~36.20~~

~~35.71~~

4750

41.37  
35.71  
5.66  
3.7  
C 2.0

41.37  
35.22  
6.15  
54  
C 0.8

41.37  
7

INDEXED

15

AUG 27 1952

Roberts

Cota  
Moore  
Clark

1-24-51

no 6294

4+40.54

Stake Cumberland

(Calle Pintoresca  
See GB 271 pg 4)

Calle Aguadulce to Calle

Trojilo  $\approx$  247

Tres Lunas

295.30

295.04

C 0.26

29951

29776

5+98.89

29859

29909

C 0.92

C 0.67

29471

29448

C 0.23

29852

29908

4720.54

5+69.44

29785

29835

C 0.67

C 0.73

29399

29387

C 0.12

29776

29834

4+00.54 PK

5+59.99

29711

29761

C 0.65

C 0.73

293.06

29298

F 0.08

29695

29746

3+73.70

5+70.54 BC

29637

29687

C 0.58

C 0.59

3+36.85

291.93

29192

F 0.01

4+80.54 EVC

29659 TP

29611

C 0.46

29088

29080

C 0.08

3+00 BC, CB Ret  
SE Cor Aguadulce

4+60.54

29585

29559

C 0.26

OK Exist &amp; add cut Stubs

7+59.88

302.68  
302.33  
 F0.35

7+32.46

301.99  
301.60  
 F0.39

7+05.04 BC

Callo Tres Lunas  
 SW Cor. 301.30  
300.75  
 F0.55

4  
 301.80  
300.59  
 F1.21

6+79.47

300.64  
300.10  
 F0.54

301.14  
299.85  
 F1.29

6+53.98

299.99  
299.64  
 F0.35

300.49  
299.99  
 F0.50

8+14.71 B

Callo Tres Lunas  
 NW Cor

2t.  
 304.85 ✓  
304.86  
 C 0.79

6+28.35 EC

299.81  
299.34  
 C0.47

300.03  
299.84  
 C0.19

7+87.30

303.69  
303.37  
 C0.32

Roberts  
Coto  
Clark  
1-25-51  
WD. 6294

Curb Grades Cumberland  
(Calle Pintarosa)

Calle Serena West to Sub. Line

Profile 3247 63271 pg 96

Cb. Grade Calle Serena

17

Cumberland North to Sub. Line

Profile 3188

INDEXED

AUG 27 1952

	275.17		
1+01.97 Sub. Line	273.00	273.32	
	C 2.17	272.22	
		F 1.30	

	268.64	270.21
1+00.25 Sub Line	267.43	267.93
	C 1.21	C 2.28

	276.87		
0+76.47	275.14	274.64	
	C 1.73	273.30	
		F 1.34	

	270.93	272.06
0+75	269.76	270.26
	C 1.17	C 1.80

	278.21		
0+50.98	276.26	275.76	
	C 1.95	273.98	
		F 1.78	

	272.10	273.69
0+30	272.09	272.59
	C 0.01	C 1.10

	278.18		
0+25.49	277.38	276.88	
	C 0.80	275.47	
		F 1.41	

	274.42	275.24
0+25	273.89	274.92
	F 0.53	C 0.52

0+00	cb. BC	278.50	278.00
	W. Side Calle Serena		

0+00	cb. BC	276.75	277.25
	N. Side Cumberland	275.76	
		F 0.99	

INDEXED

18

AUG 27 1952

Roberts Curb Grades Calle Serena  
Winchester to south sub line  
Ceta  
Moore  
Clark  
-24-51  
no 62194  
0+96.2

Profile 3188

269.59

269.09

2+16.2 EVC 267.81

267.31

0+76.2

269.49

268.99

1+96.2

268.39

267.89

0+56.2

269.27

268.77

1+76.2

268.86

268.36

0+36.2

268.94

268.44

268.10

F 0.34

1+56.2

269.22

268.72

0+16.19

268.50

268.00

267.83

F 0.17

1+36.2

269.45

268.95

cb BC  
0+00 S. side Winchester

EVC  
268.10

267.60

1+16.2

269.58

269.08

BM

269.82 chise/21

NW Cor. See GB 271942  
Calle Serena & Winchester

Contd From Page 16

17

Z+76.2

So. Sub. Line

265.90

265.40

Z+46.2

Curb stakes Winchester St.  
 West line Serena = 0+00 West to 1+25  
 on South

INDEXED

AUG 27 1952

0+50  

$$\begin{array}{r} 266.36 \\ 266.30 \\ \hline F.006 \end{array}$$

B.C. Winchester 0+25  

$$\begin{array}{r} 266.75 \\ 266.97 \\ \hline C0.22 \end{array}$$
 ✓

#3  
~~$$\begin{array}{r} 266.98 \\ 266.74 \\ \hline F0.24 \end{array}$$~~ 
$$\begin{array}{r} 266.98 \\ 266.76 \\ \hline F0.22 \end{array}$$

B.M. check 269.82 = 269.82

#2  
~~$$\begin{array}{r} 267.11 \\ 266.82 \\ \hline F0.29 \end{array}$$~~ ✓

1+25  

$$\begin{array}{r} 265.20 \\ 265.19 \\ \hline F0.02 \end{array}$$
 ✓

#1  
~~$$\begin{array}{r} 267.79 \\ 667 \\ \hline F-0.62 \end{array}$$~~ 
$$\begin{array}{r} 267.29 \\ 266.73 \\ \hline F0.56 \end{array}$$

1+00  

$$\begin{array}{r} 265.98 \\ 265.59 \\ \hline F0.39 \end{array}$$
 ✓

E.C. Serena  

$$\begin{array}{r} 267.60 \text{ Grade Elev.} \\ 266.63 \text{ Stake Elev.} \\ \hline F0.97 \end{array}$$
 ✓

0+75  

$$\begin{array}{r} 265.97 \\ 265.85 \\ \hline F0.12 \end{array}$$
 ✓

Dired Elev. Rod.

B.M. 269.82 Chiseled square N.W. Return  
 Winchester & Serena



Roberts  
G to  
Maure  
1-30-51  
W.D. 317B

Curb Stakes Thomas Ave  
Fannell to Gresham

	8226 L	
	3314	3270
	32.69	32.26
1450	C 0.45	C 0.45
	32.60	3233
	32.33	31.89
1420	C 0.27	C 0.44
	3231	3200
	31.96	31.53
0+90	C 0.35	C 0.47
	3203	3172
	31.60	31.17
0+60	C 0.43	C 0.55
	3145	3121
	31.23	30.80
0+30	C 0.22	C 0.41
	Et. Fannell	30.44
0+00 Exist.	30.89	30.44
	30.86	

BM

32.18 Hydrant SE cor.  
Fannell & Thomas

3+20 water Sec.  
Rt

3+00 3506  
3452  
C 0.54

2+80 water Sec.  
Rt.

2+70 3430  
3415  
C 0.21

2+40 3472  
33.79  
C 0.73

2+10 3425  
33.42  
C 0.83

1+80 3371  
33.06  
C 0.65

INDEXED

AUG 27 1952

21  
3504  
34.29  
C 0.75

3479  
3405  
C 0.74

3438  
33.81  
C 0.57

3430  
33.69  
C 0.61

3396  
33.33  
C 0.63

3355  
32.97  
C 0.58

3315  
32.61  
C 0.54

5100 W.L. Graham #1	3718 36.98 C 0.20	3667 36.45 C 0.22
4+90B	3716 36.87 C 0.29	3658 36.38 C 0.20
4+50	3681 36.36 C 0.45	3637 35.88 C 0.49
4+20	3644 35.99 C 0.45	3611 35.51 C 0.60
3+90	3661 35.61 C 1.00	3591 35.14 C 0.77
3+60	3640 35.25 C 1.15	3667 34.77 C 0.90
3+30	3592 34.88 C 1.04	3526 34.41 C 0.84

Roberts  
Cata  
Moore  
2-1-51  
wo 31642

Rough Grades Opal St.  
Mission to Bagard

INDEXED  
AUG 27 1952

1740	8027L 85.1 82.52 C 2.6	84.0 82.02 C 2.0	3780	87.3 87.86 C 1.4	87.7 87.36 C 0.3
------	---------------------------------	------------------------	------	------------------------	------------------------

1700	842 81.63 C 2.6	82.8 81.13 C 1.7	3740	88.6 86.97 C 1.6	87.0 86.47 C 0.5
------	-----------------------	------------------------	------	------------------------	------------------------

0+60 BRK	83.2 80.74 C 2.5	81.9 80.24 C 1.7	3700	87.6 86.08 C 1.5	86.4 85.58 C 0.8
----------	------------------------	------------------------	------	------------------------	------------------------

0+35 BRK	82.9 80.26 C 2.6	81.6 79.68 C 1.9	2760	86.9 85.19 C 1.7	85.4 84.69 C 0.7
----------	------------------------	------------------------	------	------------------------	------------------------

0+10 EC	82.7 79.93 C 2.7	81.4 79.12 C 2.3	2720	86.6 84.30 C 2.3	84.9 83.80 C 1.1
---------	------------------------	------------------------	------	------------------------	------------------------

0+08 EL Mission EXIST Rd	79.91 79.96	78.90 78.95	1780	85.9 83.41 C 2.5	84.4 82.91 C 1.5
-----------------------------	----------------	----------------	------	------------------------	------------------------

TP BM	11.77	78.02	corr. 0.35	77.62 77.67	Mission wly 7' Line	Opal ± Slsy PL.	Wilbur & Mission Blvd
----------	-------	-------	------------	----------------	------------------------	--------------------	-----------------------

66.25 NEBP  
P-DUG GONE!

6+20	94.6 93.20 CIA	93.1 92.70 C0.4
------	----------------------	-----------------------

5+80	93.9 92.31 C1.6	92.2 91.81 C0.4
------	-----------------------	-----------------------

5+40	93.1 91.42 C1.7	91.5 90.92 C0.6
------	-----------------------	-----------------------

5+100	92.6 90.53 C2.1	90.7 90.03 C0.7
-------	-----------------------	-----------------------

4+60	91.3 89.64 C1.7	90.0 89.14 C0.7
------	-----------------------	-----------------------

6+58	50 W.L. Bayard	95.5 94.04 C1.4	93.6 93.55 C0.2
------	-------------------	-----------------------	-----------------------

4+20	90.5 88.75 C1.7	88.7 88.25 C0.4
------	-----------------------	-----------------------

6+43	50 BC	95.4 93.75 C1.6	93.6 93.25 C0.3
------	-------	-----------------------	-----------------------

Roberts  
Cota  
Moore  
2-6-51  
4021119

Grade Stakes Along BRK 5' Area  
Madison to Monroe  
Between Al Hudson & S1E  
7969 L

INDEXED

25

AUG 27 1952  
385.10  
384.75  
C 0.35 3' BK

385.20  
384.55  
C 0.65

3150 nail  
0.21 BK

1740 3' BK

384.17  
383.50  
C 0.67

384.38  
383.70  
C 0.68 1' BK

384.94  
384.40  
C 0.54

385.02  
384.60  
C 0.42

3120 chisel +  
1' BK

1710 3' BK

384.44  
383.35  
C 1.09

384.41  
383.55  
C 0.86 3' BK

384.84  
384.25  
C 0.59

385.17  
384.45  
C 0.72 3' BK

2190 nail  
0.15 BK

0780 3' BK

384.64  
383.20  
C 1.44

385.90  
383.40  
C 2.50 nail  
0.10 BK

384.80  
384.10  
C 0.70

384.30  
384.24  
C 0.06 3' BK

2160 nail  
0.11 BK

0750 3' BK

384.49  
383.05  
C 1.44

384.99  
383.20  
C 1.79 nail  
0.10 BK

384.37  
383.85  
C 0.52

384.46  
384.15  
C 0.31 3' BK

2130 3' BK

0720 BRK 3' BK

383.72  
382.90  
C 0.82

383.98  
383.10  
C 0.88 3' BK

384.36  
383.80  
C 0.56

384.40  
384.00  
C 0.40 3' BK

2100 3' BK

0700 3' BK

EXIST  
NL Monroe

382.80  
382.5965

382.80  
382.5806  
382.6065

384.49  
383.65  
C 0.84

384.66  
383.85  
C 0.81 3' BK

1770 3' BK

79

BM

used Direct Elev. Rod

384.63

386.83 SE 6' Tack  
51' Malison

5+20	3' BK	385.96 385.42 ← C 0.54	385.95 → 385.61 ← 3' BK C 0.34		
5+00 PVC	3' BK	385.72 385.30 C 0.42	385.73 385.30 3' BK C 0.23		
4+85	Sewer Lt. on Lt. 5' BK	385.70 P.L. 382.09 C 3.61	385.70 C.P.L. 381.36 C 1.34	6+50.53	EXIST S.L. Madison 386.84 ✓
4+70	Nail 0.05' BK	386.05 385.15 C 0.90	385.98 385.35 C 0.63 3' BK	6+15.25	3' BK 386.67 386.41 C 0.26
4+40	Nail on line	386.33 385.66 C 1.33	385.50 385.20 C 0.30 3' BK	5+80	3' BK 386.08 385.99 C 0.09
4+10	Nail 0.20' BK	386.54 384.85 C 1.69	385.44 385.05 C 0.39 3' BK	5+60	3' BK 385.93 385.76 C 0.17
TP			385.22		
3+80	Nail 0.15' BK	386.01 384.76 C 1.31	385.54 384.90 C 0.64 1' BK	5+40	3' BK 385.71 385.59 C 0.14
					386.38 385.91 C 0.47 2' BK
					386.34 386.42 3' BK C 0.92
					386.78 ✓
					386.67 386.41 C 0.26
					386.67 386.09 C 0.58 3' BK
					386.38 385.91 C 0.47 2' BK
					386.33 385.75 C 0.58 Nail 0.30' BK

Roberts  
coto  
Woods  
2-13-51  
W.O. 31783

Grade Stakes Lower Laterals  
Along 198 to 201 Mission Beach

7940 L

Lat. #9

3.95x  
-3.54  
7.49  
503  
C 2.46

4.27

3.95x 7.28

-0.32

T.P.

Lat. #7

6.96x  
-1.49  
8.45  
631  
C 2.14

Lat #6

6.96x  
-0.94  
7.90  
585  
C 2.05

T.P.

126

6.96x

1.49

10.19x

Lat. #5

2.21  
7.98  
407  
C 3.91

Lat #4

10.19x  
2.73  
7.46  
439  
C 3.07

Lat. #3

10.19x  
2.62  
7.57  
491  
C 2.66

Lat #10

3.95x  
-4.33  
8.28  
477  
C 3.51

BM

3.11

10.19x

7.08

SWBP

Sax Joss

#Seanall

INDEXED

AUG 27 1952

-146  
575  
5x1

Roberts  
Lata  
Moore  
2-14-51  
MO 31667

Grade Stakes For Senior Lat.

# 1, 2, 3, 4, 5 & 6  
Camino Del Oro, L.J. Shores  
7885L & 7885AL

Lat #6

319  
-221  
C 5.40

Lat #5

311  
-2.33  
C 5.44

Lat #4

286  
-2.53  
C 5.39

Lat #3

264  
-2.74  
C 5.38

Lat #2

248  
-294  
C 5.42

Lat #1

219  
-311  
C 5.29

B/M

Direct Elev. Rod

351 BP

Lat. #17

-1.02  
424  
C 5.26

Lat #16

335  
-1.76  
C 5.11

Lat #15

Lat #14

318  
-1.87  
C 5.05

Lat #13

435  
-0.22  
C 4.63

Lat #12

369  
-1.68  
C 5.37

Lat #11

251  
-2.42  
C 4.93

Lat. #10

252  
-2.52  
C 5.04

Lat #9

303  
-2.00  
C 5.07

Lat #8

312  
-1.93  
C 5.05

Lat #7

330  
-1.65  
C 4.95

End Sea Wall Avenida de la Playa & La Vereda



Roberts  
Cota  
Moore  
2-15-51  
W.O. 3/4/42

Curb Stakes Opal St.  
Mission to Bayard

	80272		3+30 +	$\begin{array}{r} \rightarrow 86.76 \leftarrow \\ 86.67 \\ \hline F0.09 \end{array}$	$\begin{array}{r} \rightarrow 86.26 \leftarrow \\ 86.04 \\ \hline F0.22 \end{array}$
1+20	$\begin{array}{r} \rightarrow 82.08 \leftarrow \\ 82.08 \\ \hline GRADE \end{array}$	$\begin{array}{r} 81.61 \\ 81.58 \\ \hline 00.03 \end{array}$	3+00	$\begin{array}{r} 86.10 \\ 86.04 \\ \hline F0.06 \end{array}$	$\begin{array}{r} 85.60 \\ 85.27 \\ \hline F0.31 \end{array}$
0+90	$\begin{array}{r} 81.41 \\ 81.24 \\ \hline F0.17 \end{array}$	$\begin{array}{r} 80.91 \\ 80.84 \\ \hline F0.07 \end{array}$	T.P. 2+70	$\begin{array}{r} 85.43 \\ 85.28 \\ \hline F0.15 \end{array}$	(8470) $\begin{array}{r} 84.93 \\ 84.70 \\ \hline F0.23 \end{array}$
0+60BRK	$\begin{array}{r} \rightarrow 80.74 \leftarrow \\ 80.44 \\ \hline F0.30 \end{array}$	$\begin{array}{r} 80.24 \\ 80.17 \\ \hline F0.07 \end{array}$	2+40	$\begin{array}{r} \rightarrow 84.76 \leftarrow \\ 84.55 \\ \hline F0.21 \end{array}$	$\begin{array}{r} 84.26 \\ 84.11 \\ \hline F0.15 \end{array}$
0+35BRK	$\begin{array}{r} 80.26 \\ 80.06 \\ \hline F0.20 \end{array}$	$\begin{array}{r} 79.68 \\ 79.60 \\ \hline F0.08 \end{array}$	2+10	$\begin{array}{r} 84.09 \\ 84.08 \\ \hline F0.01 \end{array}$	$\begin{array}{r} 83.59 \\ 83.40 \\ \hline F0.19 \end{array}$
0+10 BC	$\begin{array}{r} \rightarrow 79.95 \leftarrow \\ 79.95 \\ \hline GRADE \end{array}$	$\begin{array}{r} 79.12 \\ 78.98 \\ \hline F0.14 \end{array}$	1+80	$\begin{array}{r} 83.46 \\ 83.42 \\ \hline 00.04 \end{array}$	$\begin{array}{r} 82.92 \\ 82.84 \\ \hline F0.08 \end{array}$
0+00	EL. Mission Exst. 79.91	78.90	1+50	$\begin{array}{r} 82.81 \\ \rightarrow 82.75 \leftarrow \\ \hline 00.06 \end{array}$	$\begin{array}{r} 82.25 \\ 82.16 \\ \hline F0.09 \end{array}$

Direct Elev. Rod

See Pg 23

5740	$\begin{array}{r} 9146 \\ \rightarrow 91.75 \leftarrow \\ \hline 00.01 \end{array}$	$\begin{array}{r} \rightarrow 90.95 \leftarrow \\ 90.95 \\ \hline \text{GRADE} \end{array}$			
5710	$\begin{array}{r} 90.79 \\ 90.78 \\ \hline 00.01 \end{array}$	$\begin{array}{r} 90.28 \\ 90.22 \\ \hline 00.06 \end{array}$			
4780	$\begin{array}{r} 90.11 \\ 90.10 \\ \hline 00.01 \end{array}$	$\begin{array}{r} 89.61 \\ 89.51 \\ \hline 00.10 \end{array}$	6+5850 #1 ML. Bayard	$\begin{array}{r} 94.38 \\ 94.08 \\ \hline 00.30 \end{array}$	$\begin{array}{r} 93.55 \\ 93.35 \\ \hline 00.20 \end{array}$
4750	$\begin{array}{r} 89.74 \\ 89.36 \\ \hline 00.08 \end{array}$	$\begin{array}{r} \rightarrow 88.94 \leftarrow \\ 88.80 \\ \hline 00.14 \end{array}$	6+43.50 BC	$\begin{array}{r} 94.09 \\ \rightarrow 93.75 \leftarrow \\ \hline 00.34 \end{array}$	$\begin{array}{r} 93.28 \\ 93.25 \\ \hline 00.03 \end{array}$ <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">2' BK</span>
4720	$\begin{array}{r} 88.77 \\ 88.72 \\ \hline 00.05 \end{array}$	$\begin{array}{r} 88.27 \\ 88.18 \\ \hline 00.09 \end{array}$	6+30	$\begin{array}{r} 93.63 \\ 93.45 \\ \hline 00.18 \end{array}$	$\begin{array}{r} 92.96 \\ 92.95 \\ \hline 00.01 \end{array}$
3790	$\begin{array}{r} 87.10 \\ 87.77 \\ \hline 00.13 \end{array}$	$\begin{array}{r} 87.66 \\ 87.50 \\ \hline 00.10 \end{array}$	6+00	$\begin{array}{r} 92.81 \\ 92.78 \\ \hline 00.03 \end{array}$	$\begin{array}{r} 92.28 \\ 92.18 \\ \hline 00.10 \end{array}$
3760	$\begin{array}{r} 87.43 \\ 87.31 \\ \hline 00.12 \end{array}$	$\begin{array}{r} \rightarrow 86.93 \leftarrow \\ 86.79 \\ \hline 00.14 \end{array}$	5770	$\begin{array}{r} 92.13 \\ \rightarrow 92.12 \leftarrow \\ \hline 00.01 \end{array}$	$\begin{array}{r} 91.62 \\ 91.47 \\ \hline 00.15 \end{array}$

Roberts  
Pope  
Moore  
Clark  
2-16-51  
W.C. 31647

Rough Grades Evergreen St.

Whittier to Xenophon

8131L

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				145.93X
1+25		141.19		140.19
		4.74		5.74
		0.7		6.3
		<u>C 4.0</u>		<u>F 0.6</u>

T.P.	4.37	145.93X	12.05	141.56
------	------	---------	-------	--------

		153.61X		141.20
1+00		142.20		12.41
		11.41		14.0
		<u>6.1</u>		<u>F 1.6</u>
		<u>C 5.3</u>		

		153.61		142.21
0+75		143.21		11.40
		10.40		11.4
		<u>5.0</u>		<u>GRADE</u>
		<u>C 5.4</u>		

		153.61		143.23
0+50		144.23		10.38
		9.38		10.3
		<u>4.8</u>		<u>F 0.1</u>
		<u>C 4.6</u>		

		145.93X		145.93X
		138.16		137.07
2+00	Exist	7.77		884
		<u>7.77</u>		<u>8.76</u>

		153.61X		153.61X
0+31.24		145.00		144.00
		8.61		9.61
		<u>4.9</u>		<u>9.9</u>
		<u>C 3.7</u>		<u>F 0.3</u>

		139.17		145.93
1475		138.17		138.17
		6.76		7.76
		<u>6.1</u>		<u>8.8</u>
		<u>C 0.7</u>		<u>F 1.0</u>

		153.61		153.61
Ed. Whittier		146.60		144.15
0+00	Exist	7.01		9.46
		<u>7.01</u>		

		140.18		145.93
1+50		139.18		139.18
		5.75		6.75
		<u>2.6</u>		<u>7.8</u>
		<u>C 3.2</u>		<u>F 1.0</u>

T.P.	0.12	153.61X	13.86	153.49
BW	0.18	166.35		166.17 SWBP

Willow & Whittier

Cota  
Moore  
Weir

Rough Grades Emerald St.

Noyes to Olney

W.O. # 31585

North

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North

South

1+40	83.01 79.90 C-3.1	75.64 78.90 F 3.3	3+50	78.60 76.89 C 1.7	76.29 75.89 C 0.4
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1+00	82.49 79.43 C 3.1	74.56 78.43 F 3.9	3+20	79.59 77.57 C 2.0	76.71 76.57 C 0.1
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0+60 P.V.C.	82.33 78.58 C 3.7	75.70 77.58 F 1.9	2+90	80.57 78.25 C 2.3	78.37 77.25 C 1.1
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0+35	80.79 77.92 C 2.9	74.97 76.92 F 1.9	2+60 E.V.C.	81.59 78.93 C 2.7	78.60 77.93 C 0.7
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0+10 30° Rad. pt.	80.75 77.26 C 3.5	73.70 76.26 F 2.6	2+20	83.50 79.65 C 3.8	79.04 78.65 F 0.4
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0+00 East line Noyes	79.50 Stake Elev. 77.00 Grade Elev. C 2.5	74.38 76.00 F 1.6	1+80	84.22 79.97 C 4.3	75.22 78.77 F 2.3
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B.M. Elev. 42.02 NW BR Garnet & Noyes Direct Elev. Rod.

T.P. 81.15

North

South

B.M. Check 62.02 = 62.02 NW.B.P. Garnet & Noyes

	74.53	73.09
A+90 30° Rad. Pt.	<u>73.73</u>	<u>72.73</u>
	C 0.8	C 0.3

	74.89	74.23
A+70	<u>74.17</u>	<u>73.17</u>
	C 0.7	C 1.0

	75.72	75.22
A+40	<u>74.85</u>	<u>73.85</u>
	C 0.8	C 1.3

	76.64	75.11
A+10	<u>75.53</u>	<u>74.53</u>
	C 1.1	C 0.6

	77.71	75.38
3+80	<u>76.21</u>	<u>75.21</u>
	C 1.5	C -0.2

T.P. 77.06

Grade Stakes Alley BIK 1, Monte Mar Vista  
East Line 56th St to West Line 58th.

W.O.# 31828  
COTA  
MOORE  
WEIR.

INDEXED

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34

	North	South		North	South
1410	$\begin{array}{r} 139.83 \\ 139.58 \text{ } 3^{\circ} \text{ BK} \\ \hline C 0.45 \checkmark \end{array}$	$\begin{array}{r} 138.90 \\ 139.08 \text{ } 3^{\circ} \text{ BK} \\ \hline F 0.18 \checkmark \end{array}$	2+45	$\begin{array}{r} 139.21 \\ 148.17 \text{ } 3^{\circ} \text{ BK} \\ \hline C 1.04 \checkmark \end{array}$	$\begin{array}{r} 146.98 \\ 147.87 \text{ } 3^{\circ} \text{ BK} \\ \hline F 0.89 \checkmark \end{array}$
0+95 <sup>58</sup> Sewer Lat. #2	$\begin{array}{r} 139.05 \\ 139.50 \text{ } 3^{\circ} \text{ BK} \\ \hline C 5.55 \checkmark \end{array}$		TP 117.07		
0+80	$\begin{array}{r} 137.87 \text{ TP} \\ 137.70 \text{ } 3^{\circ} \text{ BK} \\ \hline C 0.17 \checkmark \end{array}$	$\begin{array}{r} 138.26 \\ 137.40 \text{ } 0.85 \text{ In} \\ \text{Alley} \text{ } 1^{\circ} \text{ BK} \\ \hline C 0.86 \checkmark \end{array}$	2+20 E.V.C.	$\begin{array}{r} 146.01 \\ 146.30 \text{ } 3^{\circ} \text{ BK} \\ \hline F 0.29 \checkmark \end{array}$	$\begin{array}{r} 144.75 \\ 146.00 \text{ } 3^{\circ} \text{ BK} \\ \hline F 1.25 \checkmark \end{array}$
0+70 <sup>58</sup> Sewer Lateral #1	$\begin{array}{r} 137.28 \\ 132.00 \text{ } 5^{\circ} \text{ BK} \\ \hline C 5.28 \checkmark \end{array}$	$\begin{array}{r} \text{Nait } 0.05 \text{ In Alley} \\ 136.12 \\ 135.72 \\ \hline C 0.20 \checkmark \end{array}$			
0+50 E.V.C.	$\begin{array}{r} 136.13 \\ 136.02 \text{ } 2^{\circ} \text{ BK} \\ \hline C 0.11 \checkmark \end{array}$		2+00	$\begin{array}{r} 145.07 \\ 144.85 \text{ } 3^{\circ} \text{ BK} \\ \hline C 0.22 \checkmark \end{array}$	$\begin{array}{r} 145.31 \\ 144.55 \text{ } 0.75 \text{ In Alley} \\ \hline C 0.76 \checkmark \end{array}$
0+30	$\begin{array}{r} 135.12 \\ 134.63 \text{ } 2^{\circ} \text{ BK} \\ \hline C 0.49 \checkmark \end{array}$	$\begin{array}{r} 3^{\circ} \text{ BK} \\ 133.73 \\ 134.31 \\ \hline F 0.58 \checkmark \end{array}$	1+95 <sup>58</sup> Sewer Lat. #4	$\begin{array}{r} 145.17 \\ 139.50 \text{ } 5^{\circ} \text{ BK} \\ \hline C 5.57 \checkmark \end{array}$	$\begin{array}{r} 142.76 \\ 143.19 \text{ } 1^{\circ} \text{ BK} \\ \hline F 0.43 \checkmark \end{array}$
0+10	$\begin{array}{r} \text{Stake Elev. } 133.19 \\ \text{Grade Elev. } 132.69 \text{ } 1^{\circ} \text{ BK} \\ \hline C 0.50 \checkmark \end{array}$	$\begin{array}{r} 3^{\circ} \text{ BK} \\ 132.50 \\ 132.30 \\ \hline C 0.20 \checkmark \end{array}$	1+80	$\begin{array}{r} 142.95 \\ 142.23 \text{ } 0.72 \text{ BK} \\ \hline C 0.72 \checkmark \end{array}$	$\begin{array}{r} 141.74 \\ 141.73 \text{ } 3^{\circ} \text{ BK} \\ \hline F 0.12 \checkmark \end{array}$
0+00 East Line 56th	131.58 Exist.	131.15 Exist.	1+40 P.V.C.	$\begin{array}{r} 141.17 \\ 141.06 \text{ } 3^{\circ} \text{ BK} \\ \hline C 0.61 \checkmark \end{array}$	$\begin{array}{r} 141.62 \\ 140.76 \text{ } 0.86 \text{ In Alley} \\ \hline C 0.86 \checkmark \end{array}$
B.M. N&B.P. El Cajon @ 56th Elev. = 137.77	Direct Elev. Rod		1+20 <sup>58</sup> Sewer Lat. #3	$\begin{array}{r} 140.76 \\ 135.20 \\ \hline C 5.56 \checkmark \end{array}$	

	North	South		North	South
3480	$\begin{array}{r} 458.91 \\ 457.85 \text{ 3}^\circ\text{BK} \\ \hline C \ 106 \checkmark \end{array}$	$\begin{array}{r} 457.74 \\ 457.55 \text{ 3}^\circ\text{BK} \\ \hline C \ 019 \checkmark \end{array}$	5420	$\begin{array}{r} 465.15 \\ 464.65 \text{ 1}^\circ\text{BK} \\ \hline C \ 050 \checkmark \end{array}$	$\begin{array}{r} 464.52 \\ 464.35 \text{ 3}^\circ\text{BK} \\ \hline C \ 017 \checkmark \end{array}$
3460 ✓ T.P. 456.23 Door Step East	$\begin{array}{r} 457.53 \\ 456.60 \text{ 3}^\circ\text{BK} \\ \hline C \ 093 \end{array}$	$\begin{array}{r} 458.22 \\ 456.30 \text{ 0}^\circ\text{BK} \\ \hline C \ 192 \end{array}$	5400	$\begin{array}{r} 464.58 \\ 464.07 \text{ 1}^\circ\text{BK} \\ \hline C \ 051 \checkmark \end{array}$	$\begin{array}{r} 463.26 \\ 463.77 \text{ 2}^\circ\text{BK} \\ \hline F \ 051 \checkmark \end{array}$
3455 58 Sewer Lat. # 6	$\begin{array}{r} 456.97 \\ 450.50 \text{ 5}^\circ\text{BK} \\ \hline C \ 647 \checkmark \\ 457.61 \\ 455.25 \text{ 3}^\circ\text{BK} \\ \hline C \ 136 \checkmark \end{array}$	$\begin{array}{r} 458.22 \\ 454.95 \text{ 1}^\circ\text{BK} \\ \hline C \ 022 \checkmark \end{array}$	A+80	$\begin{array}{r} 463.78 \\ 463.29 \text{ 3}^\circ\text{BK} \\ \hline C \ 049 \checkmark \end{array}$	$\begin{array}{r} 462.77 \\ 462.99 \text{ 3}^\circ\text{BK} \\ \hline F \ 022 \checkmark \end{array}$
3420 P.V.C.	$\begin{array}{r} 455.08 \\ 453.80 \text{ 3}^\circ\text{BK} \\ \hline C \ 128 \checkmark \end{array}$	$\begin{array}{r} 453.93 \\ 453.50 \text{ 3}^\circ\text{BK} \\ \hline C \ 043 \checkmark \end{array}$	A+60 P.V.C.	$\begin{array}{r} 462.71 \\ 462.30 \text{ 3}^\circ\text{BK} \\ \hline C \ 041 \checkmark \end{array}$	$\begin{array}{r} 463.34 \\ 462.00 \text{ 0}^\circ\text{BK} \\ \hline C \ 134 \checkmark \end{array}$
3402 20 Sewer Lat. # 7	$\begin{array}{r} 452.38 \\ 451.92 \text{ 3}^\circ\text{BK} \\ \hline C \ 046 \checkmark \end{array}$	$\begin{array}{r} 451.98 \\ 451.70 \text{ 5}^\circ\text{BK} \\ \hline C \ 228 \checkmark \\ 451.57 \\ 451.62 \text{ 3}^\circ\text{BK} \\ \hline F \ 005 \checkmark \end{array}$	A+30	$\begin{array}{r} 461.44 \\ 460.65 \text{ 1}^\circ\text{BK} \\ \hline C \ 079 \checkmark \end{array}$	$\begin{array}{r} 460.04 \\ 460.35 \text{ 3}^\circ\text{BK} \\ \hline F \ 031 \checkmark \end{array}$
2470 58 Sewer Lat. # 5	$\begin{array}{r} 450.32 \\ 445.00 \text{ 5}^\circ\text{BK} \\ \hline C \ 532 \\ 450.13 \\ 450.05 \text{ 3}^\circ\text{BK} \\ \hline C \ 088 \checkmark \end{array}$	$\begin{array}{r} 448.92 \\ 449.75 \text{ 5}^\circ\text{BK} \\ \hline F \ 083 \checkmark \end{array}$	A+00 P.V.C.	$\begin{array}{r} 460.13 \\ 459.00 \text{ 3}^\circ\text{BK} \\ \hline C \ 113 \checkmark \end{array}$	$\begin{array}{r} 459.18 \\ 458.70 \text{ 2}^\circ\text{BK} \\ \hline C \ 048 \checkmark \end{array}$

North

South

5485<sup>33</sup> W. Line 58th.

✓  
465.58

✓  
465.00

5460

✓  
466.39  
465.30 0208K  
c 1.09 ✓

✓  
466.39  
465.00 0508K  
c 1.39 ✓

5440

✓  
466.03  
465.01 0388K  
c 1.02 ✓

✓  
465.17  
464.71 048K  
c 0.46 ✓

T.P. 64.48



Grade States Alley BIK 52 University Heights  
 Monroe to Madison Between Arizona & Texas  
 W.D. #31727

INDEXED

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East

West

East

AUG 27 1952 West

1410	$\begin{array}{r} 347.86 \text{ TP} \\ 345.09 \text{ 2nd BK} \\ \hline \text{C } 2.77 \text{ Nail} \end{array}$	$\begin{array}{r} 345.06 \\ 344.79 \text{ 2nd BK} \\ \hline \text{C } 0.27 \text{ Ch cross} \end{array}$	2470	$\begin{array}{r} 346.59 \\ 346.21 \text{ 2nd BK} \\ \hline \text{C } 0.38 \end{array}$	$\begin{array}{r} 345.86 \\ 345.74 \text{ 2nd BK} \\ \hline \text{F } 0.08 \text{ Ch cross} \end{array}$
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0480 F.V.C.	$\begin{array}{r} 345.75 \\ 344.88 \text{ 2nd BK} \\ \hline \text{C } 0.87 \text{ Ch cross} \end{array}$	$\begin{array}{r} 345.21 \\ 344.58 \text{ 1st BK} \\ \hline \text{C } 0.63 \end{array}$	2450 P.V.C.	$\begin{array}{r} 346.44 \\ 346.09 \text{ 2nd BK} \\ \hline \text{C } 0.35 \end{array}$	$\begin{array}{r} 345.67 \\ 345.79 \text{ 2nd BK} \\ \hline \text{F } 0.12 \end{array}$
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1460	$\begin{array}{r} 345.32 \\ 344.65 \text{ 2nd BK} \\ \hline \text{C } 0.67 \text{ Ch cross} \end{array}$	$\begin{array}{r} 344.00 \\ 344.36 \text{ 2nd BK} \\ \hline \text{F } 0.36 \end{array}$	2430	$\begin{array}{r} 346.66 \text{ 2nd BK} \\ 345.94 \\ \hline \text{C } 0.72 \end{array}$	$\begin{array}{r} 345.51 \\ 345.64 \text{ 2nd BK} \\ \hline \text{F } 0.13 \end{array}$
------	--	---	------	---	---

0440	$\begin{array}{r} 345.10 \\ 344.25 \text{ 2nd BK} \\ \hline \text{C } 1.15 \text{ Nail} \end{array}$	$\begin{array}{r} 343.88 \\ 343.98 \text{ 2nd BK} \\ \hline \text{F } 0.10 \end{array}$	2400	$\begin{array}{r} 345.94 \text{ 2nd BK} \\ 345.72 \\ \hline \text{C } 0.22 \end{array}$	$\begin{array}{r} 345.35 \\ 345.42 \text{ 2nd BK} \\ \hline \text{F } 0.07 \end{array}$
------	--	---	------	---	---

0420	$\begin{array}{r} \text{State Elev } 344.78 \text{ Ch cross} \\ \text{Graded Elev } 343.67 \text{ 2nd BK} \\ \hline \text{C } 0.11 \end{array}$	$\begin{array}{r} 343.36 \\ 343.43 \text{ 2nd BK} \\ \hline \text{F } 0.07 \end{array}$	1470	$\begin{array}{r} 345.33 \text{ 2nd BK} \\ 345.51 \\ \hline \text{F } 0.18 \end{array}$	$\begin{array}{r} 346.50 \\ 345.21 \text{ 2nd BK} \\ \hline \text{C } 1.29 \text{ 2nd BK Nail} \end{array}$
------	---	---	------	---	---

0400 No Line Monroe	$\begin{array}{r} 343.20 \\ \hline \text{V} \end{array}$	$\begin{array}{r} 342.72 \\ \hline \text{V} \end{array}$	1450	$\begin{array}{r} 345.50 \text{ 2nd BK} \\ 345.30 \\ \hline \text{C } 0.20 \end{array}$	$\begin{array}{r} 345.42 \\ 345.00 \text{ 2nd BK} \\ \hline \text{C } 0.42 \end{array}$
---------------------	--	--	------	---	---

R.A. S.K.B.P. Monroe & Texas Elev. 338.96 Direct Elev. Rod

East

West

East

West

400

348.40  
347.42 <sup>20 BK</sup>  
C 028

347.76  
347.12 <sup>20 BK</sup>  
C 064

5740

353.90 <sup>old 26 Alley</sup>  
351.80  
C 210

351.50 <sup>20 BK</sup>  
351.50 <sup>Ch. Cr.</sup>  
Grade

3470

348.66 <sup>25 BK</sup>  
347.14  
C 152

346.97  
346.84 <sup>25 BK</sup>  
C 013

5715

357.55 <sup>20 BK</sup>  
350.87  
C 068

351.39 <sup>20 BK</sup>  
350.57 <sup>24 BK</sup>  
F-018

3440

347.89 <sup>20 BK</sup>  
346.86  
C 103

346.89  
346.56 <sup>20 BK</sup>  
C 033

4190

350.34 <sup>20 BK</sup>  
349.95  
C 039

350.27 <sup>20 BK</sup>  
349.65 <sup>Ch. Cr.</sup>  
C 062

3410 F.V.C.

346.86  
346.58 <sup>20 BK</sup>  
C 028

347.72  
346.28 <sup>20 BK</sup>  
C 144

4465

349.32 <sup>20 BK</sup>  
349.02  
C 030

347.55  
348.72  
F 117

2490

346.85  
346.40 <sup>20 BK</sup>  
C 045

347.19  
346.10 <sup>20 BK</sup>  
C 109

4440

348.74 EP  
348.10 <sup>20 BK</sup>  
C 064

348.46  
347.80 <sup>20 BK</sup>  
C 066

2480

346.56  
346.30 <sup>20 BK</sup>  
C 026

345.90  
346.00  
F 019

4420

348.17  
347.60 <sup>20 BK</sup>  
C 057

348.41 <sup>20 BK</sup>  
347.30 <sup>Nail</sup>  
C 111

East

West

B.M. Check 338.94 = 338.96

354.18 East  
354.81

353.76 East  
353.85

5799<sup>50</sup> So. Line Madison

355.12 ~~25K~~  
354.20  
C 122

353.47  
353.77  
F 030

5790

353.45  
353.42  
C 003

5780

351.21 ~~10K~~  
352.76  
C 145

352.79  
352.46  
C 033

5760

Grade stakes Alley BIK 71; University Heights  
 Meade to Monroe between Arizona & Texas  
 W.O. # 21727

INDEXED  
 LAW  
 AUG 27 1952

40

	East	West		East	West
1400 E.V.C.	$\begin{array}{r} 337.85 \text{ 2nd} \\ 336.72 \\ \hline C 113 \end{array}$	$\begin{array}{r} 336.61 \text{ 2nd} \\ 336.52 \\ \hline C 009 \end{array}$	2150	$\begin{array}{r} 339.02 \text{ 2nd} \\ 338.25 \\ \hline C 077 \end{array}$	$\begin{array}{r} 338.11 \text{ 2nd} \\ 338.05 \\ \hline C 039 \end{array}$
0+80	$\begin{array}{r} 337.70 \text{ 2nd} \\ 336.53 \\ \hline C 117 \end{array}$	$\begin{array}{r} 336.43 \text{ 2nd} \\ 336.32 \\ \hline C 011 \end{array}$	2125	$\begin{array}{r} 338.76 \text{ 2nd} \\ 337.79 \\ \hline C 079 \end{array}$	$\begin{array}{r} 338.90 \text{ 2nd} \\ 337.79 \\ \hline C 111 \end{array}$
5 0+60	$\begin{array}{r} 337.70 \text{ 2nd} \\ 336.57 \\ \hline C 133 \end{array}$	$\begin{array}{r} 335.98 \text{ 2nd} \\ 336.14 \\ \hline F 016 \end{array}$	2100	$\begin{array}{r} 339.18 \text{ 2nd} \\ 337.74 \\ \hline C 144 \end{array}$	$\begin{array}{r} 339.64 \text{ 2nd} \\ 337.54 \\ \hline C 010 \end{array}$
5 0+40	$\begin{array}{r} 336.87 \\ 336.23 \\ \hline C 064 \end{array}$	$\begin{array}{r} 336.14 \text{ 2nd} \\ 335.97 \\ \hline C 017 \end{array}$	1475	$\begin{array}{r} 338.73 \text{ 2nd} \\ 337.28 \\ \hline C 085 \end{array}$	$\begin{array}{r} 341.08 \text{ 2nd} \\ 337.28 \\ \hline C 375 \end{array}$
5 0+20	$\begin{array}{r} \text{State Elev. } 336.58 \text{ 2nd} \\ \text{Grade Elev. } 336.12 \\ \hline C 046 \end{array}$	$\begin{array}{r} 336.14 \text{ 2nd} \\ 335.81 \\ \hline C 033 \end{array}$	1450	$\begin{array}{r} 338.96 \text{ 2nd} \\ 337.53 \text{ 1st} \\ \hline C 123 \end{array}$	$\begin{array}{r} 337.10 \text{ 2nd} \\ 337.03 \\ \hline C 001 \end{array}$
5 0+00	$\begin{array}{r} 336.03 \\ \hline \end{array}$	$\begin{array}{r} 335.66 \\ \hline \end{array}$	1425	$\begin{array}{r} 337.51 \text{ 1st} \\ 336.97 \\ \hline C 057 \end{array}$	$\begin{array}{r} 337.11 \text{ 1st} \\ 336.77 \\ \hline C 037 \end{array}$

Direct Elev. Rod.

B.M. S.E.B.P. Meade of Texas Elev. = 3371.41

East

West

East

West

340.16 2<sup>nd</sup> sk  
337.78  
C 048

339.70 2<sup>nd</sup> sk  
339.58  
C 012

342.02 2<sup>nd</sup> sk  
341.67  
C 035

341.71 1<sup>st</sup> sk  
341.47  
C 029

1400

5420

346.03 2<sup>nd</sup> sk  
339.52  
C 051

339.68 2<sup>nd</sup> sk  
339.32  
C 036

342.91 1<sup>st</sup> sk  
341.20  
C 121

341.87 1<sup>st</sup> sk  
341.00  
C 083

3475

5400

339.75 2<sup>nd</sup> sk  
339.27  
C 048

340.02 2<sup>nd</sup> sk  
339.07  
C 095

342.14 1<sup>st</sup> sk  
340.77  
C 137

340.38 2<sup>nd</sup> sk  
340.57  
F 019

3450

4480

339.49 2<sup>nd</sup> sk  
339.01  
C 048

339.75 2<sup>nd</sup> sk  
338.81  
C 094

341.10 2<sup>nd</sup> sk  
340.44  
C 066

340.13 2<sup>nd</sup> sk  
340.24  
F 011

3425

4460

339.27 2<sup>nd</sup> sk  
338.76  
C 051

339.90 1<sup>st</sup> sk  
338.56  
C 134

341.37 2<sup>nd</sup> sk  
340.19  
C 118

340.34 2<sup>nd</sup> sk  
339.99  
C 033

3400

4440 PVC

339.21  
338.50  
C 071

339.08 1<sup>st</sup> sk  
338.30  
C 078

340.99 2<sup>nd</sup> sk  
340.03  
C 096

340.22 2<sup>nd</sup> sk  
339.83  
C 049

3475

4425

East

West

342.38  
✓

341.60  
✓

342.53 2<sup>nd</sup> BK  
342.41  
          
C 0.82

342.99 1<sup>st</sup> BK  
342.02  
          
C 0.97

5490

342.19 2<sup>nd</sup> BK  
342.12  
          
C 0.77

342.84 1<sup>st</sup> BK  
342.55  
          
C 0.72

5480

342.19 2<sup>nd</sup> BK  
342.31  
          
C 1.18

342.82 1<sup>st</sup> BK  
342.11  
          
C 1.21

5460

342.89 2<sup>nd</sup> BK  
342.06  
          
C 0.77

341.51 2<sup>nd</sup> BK  
341.86  
          
F 0.35

5440

Rough Grade Stakes Cumberland  
 Calle Tres Lomas to Rancho de La Nacion  
 Stakes 5<sup>th</sup> BK. Prop Line

W.O. # 62190

Indexed

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	Left	Right		Left	Right
2420	$\begin{array}{r} 311.98 \\ 311.40 \\ \hline C 06 \end{array}$	$\begin{array}{r} 316.23 \\ 311.90 \\ \hline C 13 \end{array}$	4460	$\begin{array}{r} 305.73 \\ 302.76 \\ \hline C 29 \end{array}$	$\begin{array}{r} 304.25 \\ 303.26 \\ \hline C 10 \end{array}$
1480	$\begin{array}{r} 312.98 \\ 311.52 \\ \hline C 15 \end{array}$	$\begin{array}{r} 317.84 \\ 312.02 \\ \hline C 58 \end{array}$	4410	$\begin{array}{r} 307.45 \\ 305.14 \\ \hline C 24 \end{array}$	$\begin{array}{r} 307.08 \\ 305.64 \\ \hline C 15 \end{array}$
1420	$\begin{array}{r} 313.15 \\ 311.20 \\ \hline C 22 \end{array}$	$\begin{array}{r} 317.83 \\ 311.70 \\ \hline C 61 \end{array}$	3460	$\begin{array}{r} 309.24 \\ 307.32 \\ \hline C 17 \end{array}$	$\begin{array}{r} 309.13 \\ 308.02 \\ \hline C 11 \end{array}$
1400	$\begin{array}{r} 312.86 \\ 310.42 \\ \hline C 25 \end{array}$	$\begin{array}{r} 316.89 \\ 310.72 \\ \hline C 60 \end{array}$	3440	$\begin{array}{r} 309.71 \\ 308.41 \\ \hline C 13 \end{array}$	$\begin{array}{r} 311.31 \\ 308.91 \\ \hline C 24 \end{array}$
0450	$\begin{array}{r} 311.75 \\ 309.16 \\ \hline C 26 \end{array}$	$\begin{array}{r} 316.00 \\ 309.66 \\ \hline C 63 \end{array}$	3400	$\begin{array}{r} 310.59 \\ 309.87 \\ \hline C 07 \end{array}$	$\begin{array}{r} 312.20 \\ 310.37 \\ \hline C 18 \end{array}$
0400	$\begin{array}{r} 310.52 \\ 307.91 \\ \hline C 26 \end{array}$	$\begin{array}{r} 312.90 \text{ Stake Elev.} \\ 308.41 \text{ Grade Elev.} \\ \hline C 58 \end{array}$	2460	$\begin{array}{r} 311.52 \\ 310.87 \\ \hline C 06 \end{array}$	$\begin{array}{r} 313.77 \\ 311.37 \\ \hline C 24 \end{array}$

Direct Elev. Rod

TBM Stake 84142 Calle Tres Lomas Elev. 304.85

Cont. from page 43

44

Left

Right

5475 & Calle Tortuosa

301.34  
296.10  

---

C 53

298.35  
296.60  

---

C 18

5448<sup>2</sup> BC

302.44  
298.53  

---

C 39

300.38  
299.03  

---

C 14

5410

302.35  
300.38  

---

C 12

302.00  
300.88  

---

C 11



Roberts  
Cota  
Moore  
2-28-51  
WA 31585

Stake Water Main & Meters  
In Emerald St.  
Noyes to Olney  
8176L

Indexed

1720  
82.95  
24  
79.72  
C 2.63

2725

78.99  
R4  
78.58  
C 0.71

1700  
81.66  
74.92  
C 6.74

2720

80.72  
M  
75.13  
C 5.59

0785  
81.88  
25  
79.16  
C 2.72

1790

R4  
78.16  
76.64  
F 1.52

83.36  
15  
79.92  
C 3.44

0760  
79.78  
M  
74.07  
C 5.71

1780

81.12  
M  
75.96  
C 5.16

0735  
80.20  
24  
77.92  
C 2.28

1740

R4  
76.92  
75.75  
F 1.17

81.62  
M  
75.39  
C 6.23

EL  
0700 Noyes

75.55  
M  
72.49  
C 3.06

1735

R4  
78.80  
77.93  
F 0.87

BM

62.02 NWBP Garnet & Noyes

3740

7723  
~~R~~  
7611  
C 1.12

4710

7626  
~~M~~  
7133  
C 4.73

3720

79.20  
~~24~~  
77.57  
C 1.637814  
~~M~~  
73.18  
C 4.96

4705

76.64  
~~7623~~  
F 0.41

2790

7933  
~~M~~  
73.79  
C 5.54

3795

7605  
~~R~~  
74.87  
C 1.18

2775

7950  
~~R~~  
77.59  
C 1.91

3780

7661  
~~M~~  
71.95  
C 4.66

2760

8016  
~~M~~  
74.42  
C 5.74

3770

77.73  
~~24~~  
76.43  
C 1.30

2752

8142  
~~24~~  
79.13  
C 2.29

3750

77.14  
~~M~~  
72.56  
C 4.58

5700

72.18  
M  
69.49  
C 2.69

4770

73.76  
M  
70.10  
C 3.66

4740

75.44  
M  
70.72  
C 4.72

Roberts  
Cata  
Wisc  
3-7-51  
W02024

Stake Storm Drain in Form  
at Juniper

78932

#1

28302

27973

C 3.29

New B.C.  
1736 cb. Inlet  
S.E. Cor.

282.91	282.91	282.91
Grate	IN	OUT
282.33	279.60	279.10
C 0.58	C 3.31	C 3.81

1702

28287  
276.92  
C 3.95

0768

28275  
278.74  
C 4.01

#3 New cb.  
Inlet  
N.E. cor

28358  
Grate  
282.65  
C 0.93

28358  
FL.  
280.00  
C 3.58

0734

28239  
278.56  
C 3.83

#2

28311  
279.86  
C 3.25

ALL CB'S  
0700 R. Exit Basin

FL  
278.38  
Exit

28256  
Grate  
→ 281.85 ←  
C 0.71

BM

284.01 NWBP

Farm # 174

Indexed

44

Roberts  
Cota  
Moore  
Satterlee  
3-20-51  
NO 3 1585

Curb Stakes Emerald  
(Noyes to Olney)

8176L

1400

79.43  
7898  
F 0.45

78.73  
7825  
F 0.18

2+40

→ 79.35  
7909  
F 0.27

78.35 ←  
7803  
F 0.32

0+80

79.06  
7877  
F 0.29

78.06  
7779  
F 0.27

2+20

79.65  
7932  
F 0.33

78.65  
7838  
F 0.27

0+60 PK

78.58  
7817  
F 0.41

77.58  
7732  
F 0.20

2+00

79.86  
7971  
F 0.15

78.86  
7850  
F 0.36

0+35

77.92  
7740  
F 0.52

76.92  
7666  
F 0.26

1+80

79.97  
7975  
F 0.22

78.97  
7856  
F 0.41

0+10 BC

77.26  
7675  
F 0.51

76.26  
75.47  
F 0.79

1+40

79.90  
7956  
F 0.34

78.90  
7874  
F 0.16

0+00 #1 EL  
Noyes

77.00  
7660  
F 0.40

76.00  
7499  
F 1.01

1+20

79.72  
7923  
F 0.49

78.72  
7862  
F 0.10

Indexed

49

TBM

Direct Elev. Rod

80.75

Rd. P. NE

Cor. Emerald # Noyes Survey

4440	→ 74.85 <u>74.45</u> F0.40	73.85 ← <u>73.71</u> F0.14
------	----------------------------------	----------------------------------

440	75.53 <u>75.08</u> F0.45	74.53 <u>74.32</u> F0.21
-----	--------------------------------	--------------------------------

3+80	76.21 <u>75.91</u> F0.30	75.21 <u>74.86</u> F0.35
------	--------------------------------	--------------------------------

3+50	76.89 <u>76.59</u> F0.30	75.89 <u>75.44</u> F0.45
------	--------------------------------	--------------------------------

3+20	77.57 <u>77.20</u> F0.37	76.57 <u>76.40</u> F0.17
------	--------------------------------	--------------------------------

2+90	78.25 <u>78.04</u> F0.21	77.25 <u>77.05</u> F0.20
------	--------------------------------	--------------------------------

2+60 EVC	78.93 <u>78.83</u> F0.10	77.93 <u>77.58</u> F0.35
----------	--------------------------------	--------------------------------

check

R.J.P.F.S.M.  
73.10 = 73.07 Cor. Okey  
E.V.C.

5700 # / w.L. / Okey

73.50 <u>72.80</u> F0.70	72.50 <u>71.94</u> F0.56
--------------------------------	--------------------------------

4+90 BC

73.72 <u>73.44</u> F0.59	72.72 <u>72.19</u> F0.53
--------------------------------	--------------------------------

4+70

74.17 <u>73.75</u> F0.42	73.17 <u>72.92</u> F0.25
--------------------------------	--------------------------------

Robert  
Cora  
Mount  
Sedalia  
3-22-51  
W.O. 31911

Stake Alley BK 281 S.D. Land & Town Sub.

Sampson to 28th

Between Franklin & Ocean View

8070 L FB 1868 pg 59

Indexed

51

0+88 Nail 0.60 IN  $\frac{8689}{86.31}$  C 0.58  $\frac{86.57}{86.3}$  2' BK Stub C 0.26

0+68 0.31 IN (Nail)  $\frac{8799}{86.77}$  C 1.22  $\frac{8716}{86.77}$  2' BK Stub C 0.39

0+60 2' BK Stub  $\frac{8697}{86.97}$  F 0.01  $\frac{8734}{86.98}$  2' BK Stub C 0.36

0+40 Nail 0.75 IN  $\frac{8783}{87.34}$  C 0.79  $\frac{8833}{87.34}$  chisel + 1' BK C 0.99

0+20 BK 1' Stub  $\frac{8828}{87.38}$  C 0.90  $\frac{8860}{87.38}$  2' BK Stub C 1.22

0+00 E. Line Sampson Exist  $\frac{86.98}{\checkmark}$   $\frac{89.26}{\checkmark}$

BM TP 85.80 Direct Elev. Rod

91.05 NEBP 28th & Ocean View

2+50 Nail 205 BK  $\frac{8677}{85.91}$  C 0.86

2+30 PK Nail 0.32 IN  $\frac{8661}{85.81}$  C 0.80

1+99 Nail 0.32 BK  $\frac{8638}{85.71}$  C 0.67

1+68 Nail 0.31 BK  $\frac{8643}{85.62}$  C 0.81

1+48 Nail 1.67 IN (Nail)  $\frac{8692}{85.62}$  C 1.30

1+28 1' BK Stub  $\frac{85.73}{85.64}$  F 0.09

1+08 2' BK Stub  $\frac{85.96}{85.66}$  F 0.30

$\frac{85.91}{85.84}$  Stub 2' BK F 0.09

$\frac{85.81}{85.55}$  Stub 2' BK F 0.26

$\frac{85.71}{85.20}$  Stub 3' BK F 0.51

$\frac{85.62}{85.34}$  Stub 4' BK F 0.28

$\frac{86.15}{85.62}$  2' BK chisel + C 0.53

$\frac{86.13}{85.73}$  2' BK Stub C 0.40

$\frac{86.46}{85.96}$  Nail 0.20 IN C 0.50

W.O. 31211

3+61.65 24 PL  
 3+69.64 } 1/2 Alley #  
 3+77.93 RT PL } W.L. 28th

87.45 ← Crow foot → 87.71  
 87.34 87.98 W.O.

1+22.0

Stub 8465  
 5' West 83.05  
 C 1.60

3+65 RT only

8882 Stub  
 87.50 0.50 BK  
 C 1.32

0+97.6

Stub 8470  
 5' West 83.13  
 C 1.57

3+40

Stub 8820  
 2' BK 87.12  
 C 1.08

8930  
 87.12 Nail  
 C 2.18 0.75 BK

0+72.2

Stub 8451  
 5' West 83.20  
 C 1.31

3+15

Stub 8728  
 2' BK 86.75  
 C 0.53

86.75 Stub  
 86.60 1' BK  
 F 0.15

0+44.8

Stub 8453  
 5' West 83.27  
 C 1.26

2+90 EVL

Stub 8637  
 2' BK 8626  
 F 0.11

8637 Stub  
 8594 2' BK  
 F 0.39

0+24.4

Nail 8495  
 2.38' West 83.35  
 C 1.60

2+70

Nail 8691 TP  
 0.17' BK 86.10  
 C 0.81

8618  
 86.10 Stub  
 C 0.67 2' BK

0+00 = 1+48 on Alley 1.69' W. Alley R

Stub 5' West

8594 8594  
 Top Cuto INVERT  
 85.27 83.42  
 C 0.67 C 2.52



Contd From Page 52

no. 31811

Stake Alley BK 317 Road & Daleys 53

From 28 to 29

No B Sheet Between Ocean View & Franklin  
80692 EB 1868 7947

Indexed

END Ret. Wall	Top 97.03	96.85	
0777	96.85	88.36	
Stub 5' BK	F 0.18	C 8.79	

Stub 5' BK	95.81	9006	97.39
0760	9006	88.16	95.31 chisel
	F 5.75	C 1.90	90.06 on pipe
			C 2.08 2.4' BK
			F 5.25

5' BK Stub	94.12	9004	95.89
0740	9004	87.93	93.62 chisel
	F 4.08	C 2.11	9004 + 2' BK
			C 2.27
			F 3.58

Stub 3' BK	92.17	90.08	94.56
0720	90.08	87.70	91.69
	F 2.11	C 2.38	90.08
			F 1.61
			C 2.87
			Max 1.66 BK

1462.8 / Curb Face Franklin	chisel + 5' West	8354	
		82.93	
		C 0.61	

PVC EL.	Top 90.14	89.86	89.86	89.64
0700	89.86	87.47	87.47	89.64
Begin Ret. Wall	F 0.28	C 2.39	Crow Foot	Crow Foot

1446.3 END 12" pipe Begin Curb Outlet	Stub 5' West	8460	
		82.98	
		C 1.62	

0-10 East	88.75	89.11
	✓	✓

Cont'd From Page 53

2705 stub  
1' BK →  $\frac{100.42}{9951}$   
F0.91

EVC  
1780 chisel  
+  
3' BK  $\frac{100.30}{9984}$   
F0.46

1760 chisel  
Mark  
Huse  
0.30 BK  $\frac{100.32}{100.08}$   
C0.24

1740 stub  
1' BK  $\frac{9995}{9961}$   
C0.34

1720 stub  
3' BK  $\frac{9972}{9890}$   
C0.82

1700 stub  
3' BK  $\frac{9906}{9795}$   
C1.11

0780 stub  
3' BK  $\frac{98.30 \text{ TP}}{96.75}$   
C1.55

10097  
100.42 ←  
C0.55 stub  
1' BK

3780 stub  
2' BK →  $\frac{102.87}{101.30}$   
C1.57

10083  
100.30 chisel  
+  
2' BK  $\frac{102.99}{101.17}$   
C1.82

3755 stub  
2' BK →  $\frac{102.99}{101.17}$   
C1.82

101.03  
100.08 chisel  
+  
2' BK  $\frac{101.78}{101.03}$   
C0.73

3730 stub  
0.3 BK →  $\frac{101.78}{101.03}$   
C0.73

100.58  
99.61 stub  
1' BK  $\frac{101.49}{100.92}$   
C0.57

3705 stub  
1' BK →  $\frac{101.49}{100.92}$   
C0.57

100.43  
98.90 Nail  
0.40 BK  $\frac{100.80}{100.60}$   
F0.20

2780 stub  
3' BK →  $\frac{100.80}{100.60}$   
F0.20

100.39  
97.95 Nail  
0.30 BK  $\frac{100.67}{99.90}$   
F0.77

2753 stub  
2' BK →  $\frac{100.67}{99.90}$   
F0.77

9906 stub  
96.75 0.3 BK  $\frac{100.55}{99.04}$   
C2.31

2730 stub  
2' BK →  $\frac{100.55}{99.04}$   
F1.51

54

103.62  
101.30 ←  
C2.32 stub  
1' BK

103.29  
101.17 stub  
C2.12 0.4 BK

102.57  
101.05 stub  
C1.52 1' BK

102.29  
100.92 stub  
C1.37 3' BK

102.36  
100.80 Nail  
C1.56 2' BK

100.83  
101.67 chisel  
+  
C0.16 1' BK

101.15  
100.55 stub  
C0.60 1' BK

5460 stub →  $\frac{102.64}{100.54}$   
2' BK C 2.10

$\frac{101.99}{100.52}$  ←  
C 1.45  
chisel  
2' BK

5440 stub  $\frac{103.03}{101.69}$   
2' BK C 1.34

$\frac{101.96}{101.69}$  stub  
C 0.27 2' BK

Check

97.41 = 97.45 <sup>NEBP</sup>  
298 #0.1.

PVC 5420  $\frac{102.87}{102.00}$  stub  
C 0.87 1' BK

$\frac{102.11}{102.00}$  stub  
C 0.11 2' BK

5405 Nail  $\frac{104.18}{101.92}$   
0.04 BK C 2.26

stub  $\frac{102.28}{101.92}$   
2' BK C 0.36

4480  $\frac{103.07}{101.80}$  stub  
C 1.27 2' BK

$\frac{102.36}{101.80}$  chisel  
C 0.56 2' BK

6410<sup>13</sup>

$\frac{96.26}{96.05}$  Curb  
C 0.21 95.38

95.75  
95.59

4455 stub  $\frac{103.06}{101.67}$   
2' BK C 1.39

$\frac{102.21}{101.67}$  stub  
C 0.54 2' BK

6408<sup>13</sup>

96.26 Curb  
96.08  
C 0.18

Lt. Only Rad. Pt.

4430 stub  $\frac{103.05}{101.53}$   
2' BK C 1.52

$\frac{102.06}{101.53}$  stub  
C 0.51 2' BK

6400<sup>13</sup> chisel  
2' BK

97.97 Curb  
96.19  
C 1.78

96.19  
Curb Foot

4405 Nail  $\frac{104.06 \pm TP}{101.42}$   
0.02 BK C 2.64

$\frac{102.46}{101.42}$  stub  
C 1.04 2' BK

5480

102.29 stub  
98.57  
C 3.72 2' BK

97.87 TP

101.04  
98.57 chisel  
C 2.47 line

Roberts  
Cate  
Moore  
Fuller  
7-18-51  
W.C. 60020

Stake Existing Water Meters in

Gresham

Pac. Beh. Dr. to Gresham

8163 L #8162 L cb. Grade

Indexed

56

3+12

Lt  
2201  
→ 19.34  
C 2.67

RE

6+32

Lt

RE

17.44  
16.56  
C 0.92

2+63

16.64  
17.32  
13.4

2038  
18.78  
C 1.50

6+21

17.91  
17.44  
C 0.47

2+53

2238  
19.63  
C 2.75

5+59

19.25  
18.10  
C 1.15

1+62

19.39  
19.39  
Grade

5+25

19.68  
18.27  
C 1.41

1+51

22.62  
20.14  
C 2.48

4+85

20.68  
18.47  
C 2.21

1+23

22.53  
20.29  
C 2.24

4+24

TP 21.66  
18.77  
C 2.88

1+20

19.99  
19.60  
C 0.39

4+09

20.98  
18.15  
C 2.83

0+65

22.24  
20.75  
C 1.49

Fire Hyd.  
3+83

21.19  
18.27  
C 2.92

0+06

22.84  
21.35  
C 1.49

3+67

22.40  
19.16  
C 3.24

0+00 S.L. Tach. Dr.

BM

21.19 NWBP

Pac. Beh. Dr. E Gresham

10 ± 60 N Line Graham

Lt

Rt

6.98

Fire Hydr.

5.70

10+45

C 1.28

7.50

10+08

5.55

C 1.95

9.20

9+60

7.69

C 1.51

11.58

8+69

10.42

C 1.16

12.39

8+28

10.75

C 1.44

TR 12.74

12.81

8+11

12.16

C 0.65

14.26

7+56

13.81

C 0.45

14.68

7+41

13.56

C 1.12

15.41

7+17

14.98

C 0.50

Roberts  
Cottu  
Alouse  
Pittin  
1-26-51  
W.O. 60220

State Existing Motors Alley BIK 245  
Mission Bch.

Between York & Zanzibar  
Mission Blvd. to Strandway  
83532

2748 Rt

Indexed

58  
-0.93  
-0.24  
F 0.69

0781 Rt

0.70  
0.48  
C 0.22

2736 Lt

-0.87  
-0.17  
F 0.70

0774 Rt

0.83  
0.69  
C 0.15

1753 Rt

-0.46  
0.08  
F 0.54

0753 Lt

150  
132  
F 0.18

1744 Lt

-0.33  
0.11  
F 0.44

0742 Rt

132  
157  
F 0.25

1727 Rt

-0.24  
0.16  
F 0.40

0727 Lt

2.65  
240  
C 0.25

1705 Lt

0.24  
0.22  
C 0.02

0700 E. Live Strandway

1700 Rt

0.32  
0.24  
C 0.08

BM

7.08 SWBP York Ct. & Sea Wall

Roberts  
Cott  
11000  
Pollen  
2-30-51  
W062190

Grade Stakes Curb Calle Tregadora  
at Cumberland  
(West Side)  
Profile #219

Indexed

0+50

294.60  
293.69  
F 0.91

0+23  
EC

294.50  
293.49  
F 1.01

#3

294.43  
293.83  
F 0.60

#2

294.27  
293.26  
F 1.01

1+25 <sup>(END)</sup>

294.90  
293.37  
F 1.53

#1

294.03  
293.27  
F 0.76

1+00

294.80  
292.92  
F 1.88

BC { on Cumberland

(EXIST)

293.70

0+75

294.70  
293.22  
F 1.48

INDEXED  
JER  
MIG 1

Exist / Constr. Stakes

Roberts  
Cota  
Moore  
Pollen  
5-1-51  
M.O. 60020

Grade Stakes For Water Motors  
Landis to Dwight  
Between Highland & 45<sup>th</sup>  
85001

132k 12 Indexed  
City H<sub>2</sub>O Annex No 1

O

1421 Rt

351.69  
351.10  
C 0.59

2761 Lt

35251  
351.66  
C 0.15

B  
E

0794 Lt

351.60  
351.00  
= C 0.60

2740 Lt

35205  
351.58  
C 0.47

Z

0775 R

351.10  
350.75  
C 0.35

2710 Lt

T<sub>1</sub> 352.00

35272  
351.38  
C 1.34

#

0747 R

350.45  
350.03  
C 0.42

1777 Lt

351.68  
351.42  
C 0.26

A

0731 Lt

350.25  
349.40  
C 0.85

1762 Lt

351.73  
351.29  
C 0.44

N. Line  
0700 Dwight

1758 Rt

351.53  
351.22  
C 0.31

EM

348.37 NWBP 45<sup>th</sup> & Dwight



4+34 Lt

$$\begin{array}{r} 351.96 \\ 351.91 \\ \hline F0.05 \end{array}$$

5+51 Rt

$$\begin{array}{r} 350.79 \\ 350.79 \\ \hline GRADE \end{array}$$

4+09 Lt

$$\begin{array}{r} 352.16 \\ 352.07 \\ \hline C0.09 \end{array}$$

5+27 Rt

$$\begin{array}{r} 351.11 \\ 350.82 \\ \hline F0.29 \end{array}$$

3+88 Rt

$$\begin{array}{r} 351.90 \\ 351.71 \\ \hline F0.19 \end{array}$$

5+26 Lt

$$\begin{array}{r} 351.55 \\ 351.44 \\ \hline C0.11 \end{array}$$
3+29 Lt  
Rt
$$\begin{array}{r} 352.54 \\ 351.92 \\ \hline C0.62 \end{array}$$

$$\begin{array}{r} 353.26 \\ 351.76 \\ \hline C1.50 \end{array}$$

4+83 Lt

$$\begin{array}{r} 351.71 \\ 351.66 \\ \hline C0.05 \end{array}$$

3+02 Lt

$$\begin{array}{r} 352.67 \\ 351.82 \\ \hline C0.85 \end{array}$$

4+78 Rt

$$\begin{array}{r} 351.45 \\ 351.13 \\ \hline F0.32 \end{array}$$

2+85 Rt

$$\begin{array}{r} 351.81 \\ 351.62 \\ \hline C0.19 \end{array}$$

4+39 Rt

$$\begin{array}{r} 351.73 \\ 351.20 \\ \hline F0.53 \end{array}$$

5+77 Lt

351.02  
349.96  
C 1.06

5+56 Lt

351.17  
350.96  
C 0.21

Roberts  
Cott  
Nesoro  
Pulley  
5-2-51  
W. 60020

Grade stakes for Lowering Exist  
water Main Gresham

Pac. Beh. Dr. to Graham

8162L 9163L

3' Corros. pipe

4+80

1444  
10.90  
C 3.54

Indexed

63

2081

15.10

C 5.71

2+00

15.91

12.04

C 3.87

4+40

2157

15.31

C 6.26

1+60

16.73

13.14

C 3.59

7+00

15.49

18.49 Gate

18.24

25

2180

15.52

C 6.28

No. Line  
1+00 La Palma

T.P. 17.76

17.92

13.97

C 3.95

3+00 (9E)

2155

15.72

C 5.83

0+80 E La Palma

15.66

18.66 Gate

.09

18.54

14.47

C 4.05

3+20

2148

15.92

C 5.56

No. Line  
0+40 La Palma

19.16

14.68

C 4.48

2+80

2135

16.12

C 5.23

0+00

19.98

14.89

C 5.09

2+00

BM

21.19 NWBP

Pac Beh Dr. E  
Gresham

7+60  
 7.45  
 2.82  
 C 4.63

7+20  
 8.65  
 4.06  
 C 4.59

T.P. 897  
 6+80  
 9.38  
 5.20  
 C 4.18

6+40  
 10.24  
 6.34  
 C 3.90

6+00  
 11.25  
 7.48  
 C 3.77

5+60  
 12.33  
 8.62  
 C 3.71

5+20  
 13.28  
 9.76  
 C 3.52

8+00 No. 2.  
 Graham

6.45  
 1.62  
 C 4.83

Roberts  
Moore  
Pollen  
5-8-51  
WO 20553

Grade Stakes Storm Drain  
Alloys BRK 15 & 16 Point Lama Hts

Indexed

65

864L

1+39.39

91.05  
86.40  
C4.65

3+33.37

82.32  
76.60  
C5.72

1+05.32

92.08  
88.12  
C3.96

Log-INLET  
3+09.75

Log Inv.  
82.79  
77.80  
C5.09

INLET		
Inv.	cb	GRATE
82.52		81.84
79.00	82.51	
C3.52	C.0.01	C0.68

0+71.25 BRK

94.24  
89.87  
C4.40

2+75.67

83.78  
79.32  
C4.26

0+46.25

95.19  
90.61  
C4.58

2+41.60

85.34  
81.24  
C4.60

0+21.25 Catch Basin

Inv.	GRATE
95.96	96.30
91.36	
C4.60	F0.34

2+07.53

87.52  
82.96  
C4.56

INLET  
0+00.0lyphant

Inv.	GRATE
96.76	95.93
92.00	
C4.76	C.0.81

Curb
96.77
F.0.02

1+73.46

89.41  
84.68  
C4.73

BM

OK check  
start

117.99 NWBP  
78.21 SEBP

Chatsworth & Poe  
" LaCresta

5743 BRK  
 73.82  
 → 69.99 ←  
 C 3.23

0+24 BRK  
 70.75  
 → 66.60 ←  
 C 4.15

5712  
 74.73  
 70.85  
 C 3.88

EXIST GRATE  
 0+00 67.68

4781  
 75.95  
 71.71  
 C 4.24

CONN. (POEST)  
 6757.39 71.67  
 67.40  
 C 4.27

4756  
 77.41  
 72.57  
 C 4.84

	71.85			
INLET	IN	OUT	cb	GRATE
6745.89	67.20	67.71	71.95	71.28
	C 3.65	C 4.14	F 0.16	C 0.57

4719  
 78.76  
 73.43  
 C 5.33

72.77  
 68.73  
 6715.10 C 4.04

3788  
 80.14  
 74.29  
 C 5.85

73.11  
 69.29  
 5784.31 L C 3.85

	IN	OUT	80.99	INV	GRATE	cb
Cleanout	80.72					
3757	75.41	75.16	76.00	80.04	80.87	
	C 5.31	C 5.56	C 4.99	C 0.75	C 0.12	
		TOP				
		85.72				
		90.40				
		F 0.32				

73.28  
 69.63  
 5763.65 C 3.65

Curb Grates BIK 15-

82.40 82.50

4' Rad Pt. Alley<sup>BC</sup> 82.41

F0.01

Exit  
82.24  
82.30

82.50

CURB

82.51

£ Inlet

F0.01

82.50

GRATE

81.84

C0.66

4' Bads

82.93

P.L.

82.5P

C0.35

84.37

70' So. P.L.

84.04

C0.33

70.35

INV.

GRATE

66.16

70.4±

C4.19

F0.05

CSNH. + Detroit  
07.80

7072

66.28

C4.44

0756

7099

66.40

C4.59

0732 BRK

82.52

Roberts  
Cota  
Moore  
P. Mon  
5-14-51  
W.O. 62222

Grade Stakes Lower  
Kodlands Gardens

Alley BIK B

68

Indexed

4275B

42936  
42330  
C 6.06

1+175

42862  
42264  
C 5.98

0+94

2+35 DE

43119  
42658  
C 4.61

0+70.5

42809  
42198  
C 6.11

2+11.5

43071  
42593  
C 4.78

0+47

42762  
42132  
C 6.30

1+88

43037  
42528  
C 5.09

0+23.3

42667  
42066  
C 6.01

1+64.5

43008  
42462  
C 5.46

0+00 E.T. of Alley

42606  
42000  
C 6.06

1+41

43007  
42396  
C 6.11

BM

422.19 NW 8P El Major E 35  $\frac{11}{16}$



Grade Stakes Storm Drain Lot 12

Long  $\frac{1}{2}$  Hickoki Sub.  
Parade to Ocean View

1425 1.75 w. 65.75  
63.86  
C 1.89

1708 1.77 w. 66.08  
64.09  
C 1.99

0775 1.54 w. 66.51  
64.32  
C 2.19

0750 6' w. 66.39  
64.54  
C 1.85

0725 6' w. 66.96  
64.77  
C 2.19

0705.08 12' Rad. P. for Stb.  
10'  $\frac{1}{2}$  20' R.P.W.

0700.08 R.L.

68.37 68.37 68.37  
INVERT GRATE Top  
0700 65.00 66.67 67.30  
10'  $\frac{1}{2}$  20' R.P.W. C 3.37 C 1.70 C 0.87

BM

6/18 chisel + cb top 2+31.01 See FB 2018 pg 45

Indexed

69

Meet Exist

1464.08

1750<sup>08</sup> have to go  
up 15' to top  
P.L. 1.78 w.

65.43  
Top Walk  
64.52  
C 0.91

65.61  
INVERT Top Walk  
63.75 65.51  
C 1.86 C 0.10

1437<sup>25</sup> Begin cb.  
Out lot 1.75 w

Roberts Grade Stokes Storm Drain in  
Cota Lots 7, 8 & 9 Block 19 Valencia Park #8  
Moore  
Pullem  
6-1-51  
W.O. 26818

FB 2663 pg 37 4247B

Indexed

70

0+40

142.01  
139.36  
C 2.71

0+32

146.26  
139.64  
C 6.62

1+28 END

142.95  
137.30  
C 5.65

0+24

146.27  
140.14  
C 6.13

1+08

143.35  
137.76  
C 5.59

0+16

148.10  
140.80  
C 7.30

0+88

143.68  
138.21  
C 5.47

0+08

150.60  
141.62  
C 8.98

0+68

144.55  
138.66  
C 5.89

0+00 END Exist  
Storm Drain

142.60

Intersection of  
0+49.05 Two Drains

142.06  
139.08  
C 2.98

BM

151.77 SWBP

Trinidad  $\frac{1}{2}$  Santa Maria

Roberts  
Cota  
Noora  
Pulkin  
6-4-51  
W.O. 20008

Rough Grade Stakes for Illinois St.  
In ILLINOIS MANOR  
Gutter Grade  
8876-L

Indexed

71

	38677	38693		
1495.5	385.39	385.46		
	C 1.38	C 1.47		

	38654	38663		
1448.4	385.12	385.22		
	C 1.42	C 1.41		

N.L. Ill. Manor  
Exit Pav

386.70	386.63
3871.3	

	386.60	38640		
1711.3	384.86	384.99		
	C 1.74	C 1.41		

387.31	387.03
386.44	386.40
C 0.94	C 0.63
3873.9	

	38628	38621		
6474.2	384.60	384.75		
	C 1.68	C 1.46		

38738	38744
386.17	386.16
C 1.21	C 1.28
2196.8	

	38602	38606		
6437.1	384.33	384.52		
	C 1.69	C 1.54		

38714	387.36
385.91	385.93
C 1.23	C 1.43
2159.7	

S.L. Ill. Manor  
0+00 Exit Pav

384.09	384.28
✓	✓

2122.6

387.06	387.46
385.65	385.69
C 1.41	C 1.77

Used Curbs for BM

Garber  
Cota  
Puller  
Bruner 7/10/51 W.O. 31696

Grade Stakes - Venice St.  
Saratoga Ave. to Brighton Ave

Indexed

+96.71  
177.74  
169.99  
C-7.80

+37.28  
165.40  
158.03  
C-7.37

1+20 M.H. #5  
179.09  
171.71  
C-7.38

3+07 M.H. #4  
168.07  
159.29  
C-8.78

To M.H. #3

To M.H. #5

M.H. #4

7'0"

7'0"

7'0"

7'0"

7'0"

7'0"

7'0"

7'0"

7'0"

7'0"

7'0"

7'0"

7'0"

7'0"

7'0"

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7'0"

7'0"

7'0"

7'0"

7'0"

7'0"

7'0"

7'0"

7'0"

+80.26  
169.34  
161.06  
C-8.28

+90  
179.66  
173.47  
C-6.19

+53.53  
171.17  
162.84  
C-8.33

+60  
180.73  
175.23  
C-5.50

+26.84  
172.95  
164.41  
C-8.34

+30  
182.08  
176.99  
C-5.09

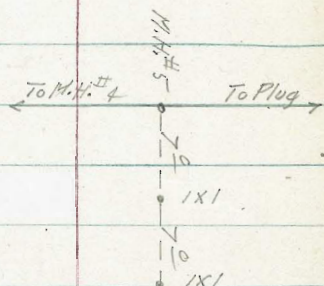
2+00.13  
174.78  
166.39  
C-8.39

0+00-Plug  
183.62  
178.75  
C-4.87

1+73.42  
176.44  
168.16  
C-8.28

Self Reading Rod used.

SWBP  
151.35 Brighton  
& Venice



+49.20  
155.36  
 149.18  
 C-6.18

+40.24  
152.93  
 145.24  
 C-7.69

5+18.93  
156.02  
 150.44  
 C-5.58

7+14.14  
153.23  
 145.52  
 C-7.71

+88.65  
156.71  
 157.71  
 C-5.00

+88.04  
153.44  
 145.81  
 C-7.63

+58.38  
157.67  
 152.97  
 C-4.70

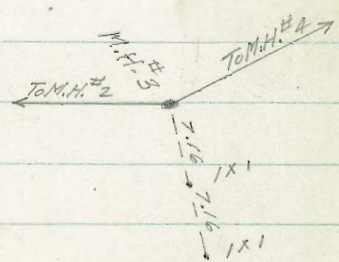
+61.94  
153.81  
 146.09  
 C-7.72

4+28.10  
159.11  
 154.23  
 C-4.88

+35.85  
154.09  
 146.37  
 C-7.72

+97.83  
161.06  
 153.50  
 C-5.56

4+09.75 N.H.#3  
154.77  
 146.65  
 C-7.72



3+67.55  
163.40  
 156.76  
 C-6.64

+79.48  
154.84  
 147.91  
 C-6.93

+36.78  
151.87  
143.26  
C-8.61

9+03.75  
152.05  
143.49  
C-8.56

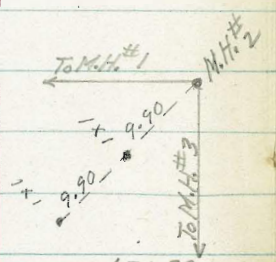
+70.72 M.H.#2  
151.39 151.39 151.39  
143.72 W 143.83 So. 143.92 No.  
C-7.67 C-7.56 C-7.47

+44.62  
151.96  
144.11  
C-7.85

8+18.53  
152.12  
144.40  
C-7.72

+92.43  
152.35  
144.68  
C-7.67

7+66.33  
152.46  
144.96  
C-7.70



+96.60 P.E. Connect  
147.01  
142.00  
C-5.01

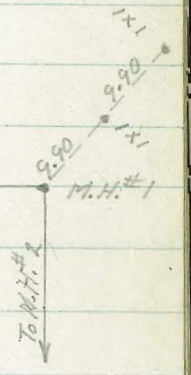
+68.90 M.H.#1  
145.74  
142.33 E  
C-3.41

+35.87  
148.64  
142.56  
C-6.08

10+02.84  
150.15  
142.79  
C-7.36

+69.81  
151.50  
143.03  
C-8.47

Check -  
151.35 B.M.  
SWBP - Venice  
& Brighton



154.16 TP

Garber Stake Curb - No. side Venice  
Cord. Newport So. to Alley  
Pullen  
Guyle 7/13/57 W.O. 31696

End Cb. P.L. 228.24  
228.67  
F0.43

Indexed

75

+40

232.35  
230.89  
C-1.46

E.C. Alley 227.75  
228.51  
F0.76

+20

232.44  
230.84  
C-1.60

+38.07 B.C. Alley 227.75  
228.55  
F-0.80

0+00 So. P.L.  
Newport

230.89  
230.70  
C-0.19

+20 229.38  
229.32  
C-0.06

0-10 B.C. Venice

230.62  
230.58  
C-0.04

1+00 230.21  
229.97  
C-0.24

# Middle of  
1 Return (10<sup>e</sup>)

230.62  
230.38  
F0.07

+80 231.11  
230.46  
C-0.65

E.C. - Newport

230.15  
230.12 1/4

0+60 231.97  
230.76  
C-1.21

230.26 NW 7/8  
Newport &  
Venice

Garber  
Cota  
Pullen  
Guyle 7/13/51

Stake Curb - No. side Venice  
Del Monte No. to Alley

Gutter Grades - Venice from Nly 76  
P.L. Cape May 80 ft. Nly

Indexed

No. P.L. Venice  
212.54  
211.69  
C-0.85

E.C. Alley  
211.42  
211.62  
F-0.20

Alley  
+ 38.02 B.O.  
211.42  
211.61 ✓  
F-0.19

+ 05  
211.92  
211.80  
C-0.12

+ 70  
211.75  
212.00  
F-0.25

+ 35  
211.99  
212.20  
F-0.21

0 + 00  
212.16  
212.40  
F-0.24

+ 76  
154.08  
153.37  
C-0.71

+ 60  
154.30  
153.56  
C-0.74

+ 44 Gr. Brk.  
154.41  
153.75  
C-0.66

+ 22  
154.78  
154.13  
C-0.65

0 + 00  
155.29  
154.54  
C-0.75

felt Reading Rod used.

205.19 SWBP  
Venice & Narragansett

M.H. # (Stoke) 154.37  
Check B.M. 153.80  
753.81



Roberts  
Cota  
Moore  
Pollen  
July 15, 1959  
W.D. 31696

Curb Grades Venice  
dt. Newport

8232L 8231L

PCC

Exist 228.85

77

229.59  
229.53  
F 0.06

~~230.25~~  
~~230.00~~

F 0.09

Indexed

#3

228.45  
~~228.65~~  
228.32  
~~F 0.33~~  
F 0.13

X

~~230.25~~  
~~230.22~~  
~~F 0.10~~  
F 0.49

#2

(#BK)

Change in Red

Same 229.41  
228.95  
F 0.45

Mid

N.G.

~~230.32~~  
~~230.00~~  
~~F 0.19~~  
F 0.04

#1 P.L. Newport

Same 230.02  
229.24  
F 0.78

PL

~~230.34~~  
~~230.18~~  
~~F 0.16~~  
C 0.10

EC ON VENICE

Same 230.30  
229.77  
F 0.53

BC dt Newport

229.54  
229.57

Midpoint

Same 230.20  
229.94  
F 0.26

#4 Meet Exist (BC)

227.50  
227.90  
227.44 ✓

BC ON NEWPORT

230.02  
229.98  
229.90  
F 0.08  
F 0.12

BM

230.26 N.W. 7' C.T. Newport, & Venice See FB 2089 pg 25

Roberts  
Cota  
Moore  
Pollen  
July 24, 1951  
W.O. 20794

Curb Returns  
West Side Fairmount  
at Quince  
#1572

Indexed

78

SW Ret

N.W. Ret.

EC

297.40  
297.34  
F.O.06

2nd Quarter

297.35  
297.28  
C 0.07

P.L.

297.86  
297.63  
C 0.23

Midpoint

297.31  
297.23  
C 0.08

2nd Third

297.60  
297.58  
C 0.02

1st Quarter

297.45  
297.17  
C 0.26

1st third

297.61  
297.45  
C 0.16

BC ON Fairmount  
Exist

using this  
for Constr.

297.17  
297.07 > Wow!

BC ON Fairmount  
Exist

297.42  
297.32 > WOW!

BM

297.19 SEP P Quince & Fair mount

8233L

Curb Ret, Alley Ret. & Curb  
at Brighton & Venice

End. Curb

152.32  
152.03  
F 0.29

BC Alley

152.14  
151.78  
F 0.36BC Venice  
Alley Ret Nly152.09  
151.78  
F 0.31END Curb  
E. Side Venice151.68  
151.52  
C 0.16EC on Brighton  
EWSE150.97  
150.95 ✓BC Venice  
Alley Ret. Sly Exist152.31  
152.32

Midpoint

151.22  
150.90  
C 0.32

BC Alley

152.32  
12.32  
GRADE

BC on Venice

151.61  
150.60  
C 1.01

END Curb

152.72  
152.50  
C 0.22

79

Indexed

823

En

BC

BC <sup>va</sup> A

END

EC <sup>or</sup> E

Midpar

BC <sup>or</sup>

80

8836  
8747 .0115  
2300

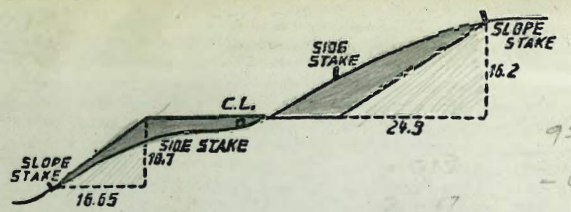
77089  
77  
120  
846177  
430  
17  
115  
805  
115  
1955



3788

1052

8617



81  
955  
-0.45

**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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