

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	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.

INDEXED
Completely
except pages 58, 59

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	.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

Server Grader Bay Park + Marensa Hdd 2-49

Paving Grader 49th St. H to Lyon 50

North Gutter Grader Broadway 13th + 14th 51

INDEXED
to page # 71
except pages # 58, 59, 61

Sewer Grader Lister 4nd Frankford St

INDEXED

W.K.
AUG 1 1949

+ 79.90

80.68

15.52
c108.3

+ 44.90

79.78

17.42
c105.3

2+09.90

78.87

18.38
c9.73

B.M.

12.88

97.25

4.11

84.87
84.36

S.W. P.P. Sta
Lister
Frankford
(84.87)

5+24.90

Frankford
- M.H. # 80

87.00

10.25
c7.51

+ 74.90

77.97

10.44
c8.68

2 Frankford 45.55
- M.H. # 36 84.8+8.48
Δ 89.58 30.41

+ 89.90

86.10

11.15
c7.56

+ 39.92

74.58

13.83
c7.51

+ 54.90

85.20

13.05
c8.35

1+04.91

71.18

17.23
c7.73

TP

11.91

88.41

0.66

76.50

4+19.90

84.29

12.96
c10.28

+ 69.96

67.79

9.37
c7.13

+ 84.90

83.39

13.81
c12.43

+ 34.98

64.39

12.77
c5.87

+ 49.90

82.19

14.76
c12.28

0+0

2 Alley End of Eric
- M.H. # 27

61.00

3+14.90

87.58

15.62
c11.72

77/6 pt. Ford
Page 44

97.25

Lister St. Sewer Grader From
Trunk Sewer Moreno Blvd. to
Alley Between Chicago + Denver

Stakes Set c. ft. of $\frac{1}{2}$
on + Grader

April 15 49
H.S. Sirois
D Smith
H Gardner
H.O. 31474

3

Tier 1502-48

+66.56

3.83 ^{15.73}
^{8.22}
^{2.57}
c7.81

4+28.50

12.42 ^{17.11}
^{7.73}
c7.38

1+32.25

3.26 ^{16.36}
^{2.05}
c7.25

+84.78 = $\frac{1}{2}$ Chicago

10.82 ^{18.71}
^{9.77}
c8.94

+99.93

2.70 ^{16.86}
^{2.79}
c7.89

TP 11.87 29.53 190

17.66 ^{27.506}
^{2.41105}

3+41.05

9.21 ^{10.35}
^{1.90}
c8.45

+66.62

2.13 ^{17.42}
^{9.82}
c7.61

+97.33

7.61 ^{11.95}
^{4.04}
c7.91

+39 = $\frac{1}{2}$ Parking Moreno

1.66 ^{17.90}
^{2.72}
c8.77

2+43.60

6.00 ^{18.56}
^{8.06}
c7.51

0+0 = Existing M.H.

1.00 ^{18.56}
^{11.02}
c7.79 = 2.81
M.H.

TP 10.00 19.56 6.21 9.56

TP 3.94 15.77 4.13 11.83

BM 9.20 15.96 6.76

M.H. #1
M.H. #2
M.H. #3
M.H. #4
M.H. #5
M.H. #6
M.H. #7
M.H. #8
M.H. #9
M.H. #10
M.H. #11
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M.H. #82
M.H. #83
M.H. #84
M.H. #85
M.H. #86
M.H. #87
M.H. #88
M.H. #89
M.H. #90
M.H. #91
M.H. #92
M.H. #93
M.H. #94
M.H. #95
M.H. #96
M.H. #97
M.H. #98
M.H. #99
M.H. #100

40° 38' ft
1+99.88 = M.H. #4
R.P. 15° ft. 3.48

14.54
2.59
5.00 c7.39
M.H. #5
4.40
15.16
2.11
c7.99
8.48 SE

19.567

INDEXED
W.K.
AUG 1 1949

Hilltop Saxon Grader 4
Alley Between Quail + 39755 4
Alley 2, Sun Harbor Tract No. 1
160 Feet of S 39th Ed. Ppt

Apr 1 15 49
S. 806.7
S. 2016.4
S. 8019.1
N.O. 60360

BM Hilltop Quail 336 173.61
TP 633 176.97 1.98 170.64
+ 67 = Hilltop 157.19 ^{13.43} ^{7.37} ^{-8.06} ^{SW}

+ 44.66 156.96 ^{15.66} ^{6.90} ^{-28.76} ^{SW}

+ 22.33 156.74 ^{15.85} ^{2.28} ^{-28.1} ^{SW}

5149.68 = MH #9 ^{11.68} ^{2.19} ^{2.19} ^{17.85} 17.24 ^{13.39} ^{2.19} ^{10.15} 0 + 0 = Existing D.F. 161° 156.52

5105.95 156.4 ^{13.89} ^{3.61} ^{10.28}

TP 1122 172.62 0.28 161.40

TP 1291 161.68 0.40 148.77

TP 1297 149.17 0.13 136.10

BM 8.29 156.53 158.62 ^{N&RP} ^{Marked} ^{140°}

4162.23

1403 ^{15.50} ^{5.20} ^{18.70} ^{S.P.K.}

29.53

Sewer Grades Alley Between
 Moran Blvd + Chicago St.
 List or to 1949

Bl. 24-25-28

Wanna

April 18-49
 F. S. Brown
 D. Smith
 W. Garber
 140.31474

5

2+20

588

12.63
 5.86
 6.77
 6.81

5+28

8.26

16.13
 9.84
 6.58
 6.81

INDEXED

ALLG N.K. 1 1949

+76

5-70

12.81
 6.17
 6.67

+84

7.51

16.87
 9.83
 6.73

1+32

5-53

12.98
 2.17
 6.81

2 Kane
 4+40 = MH 3 RPLVIRT

6.76

17.63
 9.83
 6.77

TP 10.07 24.38 420

14.31

+96

6.58

11.93
 4.30
 6.73

+88

5-25

13.16
 6.65
 6.54

+52

6.41

12.10
 2.68
 6.42

+49

5-18

13.33
 6.15
 6.78
 6.81

3+08

6.23

13.28
 2.39
 6.27

0+0 = MH # 4

5-00

B.M. 6.22

18.51

12.39

0.88
 MH # 2
 18.51

2+64

6.06

12.45
 5.21
 6.04
 6.81

18.51

8+36

13.49 ^{18.89}
^{2.38}
c 8.57

+90

1865 ^{18.09}
^{3.97}
c 9.12

+92

12.75 ^{11.63}
^{2.62}
c 9.00

+55

1791 ^{18.83}
^{10.32}
c 8.57

+48

12.00 ^{12.38}
^{2.94}
c 9.41

10+20

17.18 ^{19.51}
^{10.01}
c 9.55

7+04

11.25 ^{13.13}
^{3.98}
c 9.15

+85

16.44 ^{20.30}
^{11.38}
c 8.92

+60

10.50 ^{13.88}
^{4.66}
c 9.22

TP

12.88 36.74 0.52

23.86

+50

15.71 ^{8.67}
^{0.52}
8.15

6+16

9.75 ^{14.63}
^{6.53}
c 8.10

9+15

14.98 ^{0.10}
^{2.00}
c 8.40

5+73

9.01 ^{15.37}
^{8.04}
c 7.33
6

2 SeilbH
8+80-NH 2 RPL4NR
34.38

0 14.24 ^{15.14}
^{2.19}
c 7.87

24.38

INDEXED

W.K.
AUG 1 1949

Sewer Grades Alley Block 56
Morena North of Milton
Between Deaver & Erie

7

PA 6 23.88 97

+50 = M.H. #15

30.85

1455
377
c874

3 + 15

30.67

1123
1225
778

+80

30.50

1490
1624
c726

+45

30.32

1208
1359
c779

B.M.

515

41.98

Nail Fence
52. Ingot.
Bot. Chp + Dm.
1821.89
42.05

2 + 10

30.15

1225
1305
c720

TP

11.47

47.13

0.16

35.66

+75

29.97

1243
1324
c807

12 + 30 = M.H. #1 RP 6 + CRT

1248
3.02
c946

1423
3.02
c1127

+40

29.80

1260
1320
c840

5000

+95

1022
388
c954

30.85

1422
386
c1227

1 + 05

29.62

1278
1338
c875

02

02 Feb

1.97

34.07

32.50

+70

29.45

1295
1310
c955

+60

100

20.12

1590
332
c1238

+35

29.27

1318
1333
c915

TP

4.91

35.82

5.83

30.91

1/2 Milton
0 + 0 = M.H. #14

29.10

11 + 25

19.38

1736
583
c1113

B.M.

4.48

12.10

37.92

02 Feb
8487
7+80

36.74

Page 15

Sewer Grader Alley Between
 Moreno Blvd. + Chicago St. From
 Lister to Milton

Block 26 Morena

+87.5 6.50 12.01
 2.21
 c7.80
 6.91

INDEXED

W.K.

AUG 1 1949

+150 6.20 12.31
 4.36
 c7.95

+75 = M.H.#5
 R.P. 6x6 R.P. 6x6

8.00 10.51
 2.51
 c8.90

1+12.5 5.90 12.51
 2.95
 c7.66

+37.5

7.70 10.81
 1.79
 c9.04

+75 5.60 12.91
 5.50
 c7.41

3+0

7.40 12.11
 2.50
 c8.61

+87.5 5.30 13.21
 5.86
 c7.35

+62.5

7.10 11.41
 3.88
 c8.33

0+0 = M.H.#4 5.00 13.51
 6.12
 c7.39
 6.81

2+2.5

6.80 13.21
 3.86
 c8.86

RM 6.12 18.61

12.39

0-50.5
 1+9.98
 M.H.#1
 P09.03

18.61

				+90		30.95	15.36 2.08 c9.18 6.11
8+26		27.18	12.02 2.35 c9.17 6.11				
+92		26.57	12.63 2.55 c9.38	+55		30.42	15.79 5.78 c10.01
+48		25.95	13.25 4.21 c8.81	10+20		29.90	16.31 8.70 c10.21
7+04		25.34	13.86 4.99 c9.69	+85		29.37	16.84 8.78 c10.06
+60		24.72	14.48 5.29 c9.19	+50		28.85	17.36 7.93 c9.73
6+16		24.10	15.10 5.02 c10.08	TP	9.36	46.21	2.35
				9+15		36.85	10.88 2.25 c8.53 c.11
5+72		23.49	15.71 8.76 c10.55 8	8+80 = M.H. 7	R.P. 4.00E. 8.48+8.48	27.80	11.43 3.70 c8.28 8.28.51
	39.20						
					39.20		

Sewer Grader Alley Between
Chicago + Denver Lister to Logutz

INDEXED
W.K.
AUG 1 1949

BM

424 41.97

Nail Fence
Corner
SE 1/4 1991
SW 1/4 1991
42.05
1821-69

12+30 - MH #6 RPL 45.3 RT

33.05

13.16
5.52
22.58
6.91

+95

22.52

13.69
5.92
27.76

+60

32.00

14.21
8.12
28.09

11+25

31.47

14.74
6.69
28.65
6.81

46.21

Sewer Grader Kane St.
Alley West of Denver to
East Line of Denver

April 22-49 **11**

2+15 - Plug - Fly Denver

36.16

7.33
9.21
6.52
6' R.R. Seals

+72

33.40

10.09
2.83
27.76

INDEXED
W.K.
AUG 1 1949

1+29

30.65

13.84
2.79
28.05

+86

27.90

15.59
7.50
28.39

+43

25.15

18.34
10.30
8.01
6' R.R. or Se.

0+10 - MH #8

22.40

cut 8.12

BM

12.97

43.49

30.52

07.51
8.18
MH #8
Page 9

Survey Grades East Side of 4-22-49
 Morena Blvd. Bet. Napier + Milton St. 13
 stakes offset 1' 8" on + Grade

7+0 - M.H. #1	50.55	10.65 3.88 7.77 6' offset	70' 5" Plug	4.75	11.79 4.75 7.04
+65	50.23	10.97 3.27 7.70	85' M.H. #29	4.01	12.53 2.88 9.65
6+30	49.92	11.28 3.54 7.74	1+91 - Plug	5.30	11.24 4.88 6.36
+95	49.60	11.60 3.43 8.17	+58.5	4.81	11.73 4.40 7.33
+60	49.29	11.91 3.38 8.53	1+26	4.32	12.24 4.83 7.41
5+25	48.97	12.23 1.0 11.0 8.73	+93.5	3.84	12.70 4.82 7.88
+90	48.66	12.54 3.54 9.00	+61 = M.H. #29 RPL'X' End	3.55	13.19 5.13 8.06 6.5
4+55	48.34	12.86 3.44 9.42 6' offset	+39 - 1/2 Pav.	2.25	14.20 4.44 9.76
			0+0 - Exist Trunk Top	0.30	16.24 7.20 9.04
			BM 998 16.54	6.76	11.87 4.11 7.76 150' to Napier

6/20

INDEXED
 N.K.
 AUG 1 1949

Better Grades Filley Block 33 March
And Milton St. to

FR-11 29-49
+30 to 7+8°

14

+58 in Pipe Pile

19.14 out

13.00
8.20
6.10
6.10

+35

2291

16.19
8.49
c7.70

+52

19.11

INDEXED

N.K.
AUG 1 1949

18.92
13.19
7.41
c5.78

+40

22.11

16.99
9.70
c7.29

2715

+72

18.71

13.40
6.58
c6.82

+65

21.30

17.80
10.57
c7.23

1+29

18.50

13.61
6.84
c7.57

TP

11.63

39.10

4.64

27.47

02 RP 8482
+30) 114°

500

+430

M.H. #10 = 7 Milton St
RP 45.50 = 848 + 3.98 = 20.00

12.11
4.64
c7.47
848Kt.

+86

18.28

13.83
5.96
c7.87

+87

19.78

12.33
5.87
c6.46

+43

18.06

14.05
5.20
c8.85
6.10 RT-M

+44

19.57

12.54
5.88
c6.66

0+0: M.H. #9 Page 1

17.85

5.10
M.H. #9
Page 1

3+01

19.35

12.76
5.98
c6.78
6.10 RT

BM : 4.77 3211

27.24

3211

Milton St

May 5-49 15

TP	9.55	47.47	1.18	37.92	0.54 7+80
+80	= M.H. 14	RP 15	JE 8	10.98	10.58 11.8 7.37 8.48
				29.10	28.55
				10.98	
				1.18	
				8.82	

10+25

37.05

16.62
9.28
1.72
0.72

+45

INDEXED
W.K.
AUG 1 1949

27.75
11.85
3.21
0.77

+90

35.85

17.80
16.89
0.91

7+10

26.94
12.16
3.03
0.13

8M

11.56

53.65

5.42

42.09
42.05

OK B.P. on +
M.F. 10 42.09

+55 = M.H. 19

35.25
12.32
2.72
0.78

34.68

13.79
4.74
8.65

+75

26.13
12.97
4.18
0.79

9+20

33.45

14.03
5.85
0.17

+40

25.33
13.77
5.63
0.74

+85

32.23

15.31
6.56
0.74

6+05

24.52
14.58
5.83
0.73

+50

31.00

16.47
7.55
0.72

5+70

23.77
15.38
9.14
0.74
8.70

8+15

29.78

17.68
8.89
0.61

39.10

47.47

Senior Grader Alley North of Maple St.
H. No Chicago St & Mayo St.

Rmy Pk. Village

stake offset 6' pt + Grade

4-23-49
S. W. Ross
Smith
Garber

18

+70.96

6.75

2.79
2.11
c 7.68
8.14

4+11.73

11.18

11.01
2.26
c 7.55

INDEXED

N. K.

AUG 1 1949

+86.97

6.10

10.46
2.16
c 7.27

+76.83

10.77

13.32
2.40
c 7.92

+102.58

5.45

11.09
4.17
c 6.92

+41.93

Δ
= 24 H # 38
= 8 Chicago St North

12.70
2.46
c 8.24

10.36
10.00

13.06
4.46
8.60
8.54

+68.39

4.80

11.74
4.76
c 6.98

3+07.74

9.35

12.74
5.04
c 8.70

+36 = 2 Paving Machine

4.19

12.35
8.16
c 7.18

+73.54

8.70

14.30
5.60
c 8.70

+26 = Grade Bkt.

4.00

12.54
8.54
c 6.93
8.14

+39.35

8.05

8.49
0.44
c 8.05

010 - Fix in MH

0.00

16.54
7.76
c 8.58
8.03
MH

2+05.16

7.40

9.44
1.53
c 7.87
8.14

Senior Grader May 05
East of Chicago

19

BM	2190	SE Top of Hill Chicago Mayo	3 + 21.60 = Plug	2140	9.08 8.58 c 6.50 RT-SPK		
+ 61.43 - Plug	13.42	9.67 9.26 3.27 13.42 13.42	+ 89.10	20.49	8.99 7.59 c 6.70		
6 + 25.18		9.99 3.47 13.16 c 6.76	+ 56.60	19.58	8.90 8.58 c 6.32		
+ 88.93		10.18 3.61 12.91 c 6.57	2 + 24.10	18.67	10.81 1.80 c 6.29		
+ 52.68		10.34 3.51 12.65 c 6.63	Fault 91.60 Fault 190.03 Δ 13° 31' RT N 44° 17' Rd Spt RP 6.04 + 2.01 RT on Spt 1/2	17.76	11.72 5.53 c 6.21 c 6.04		
5 + 16.43 = 2 Mayo Stake = MH 37 RP 45.52 848 + 848		10.60 3.92 12.40 c 6.70 8488	+ 53.28	16.69	12.78 6.26 c 6.23		
+ 81.53		11.10 3.03 11.99 c 7.17	+ 76.64	14.54	14.92 8.93 c 6.21		
4 + 46.63		11.58 1.67 10.73	+ 38.32	13.47	16.01 2.84 c 6.17 c RT-SPK		
			070 = MH 37	12.40			
2009			BM	758	2948	2190	SE Top of Hill Mayo

Survey-Grades Chicago St + Napier St.

April 128-19

F. Smith
Barger
189

20

SETOP F.H.D.
D. Smith
Barger
189

BM

6+20.97

23.80

22.98

+67.19

13.94

11.48
3.98
c7.56

+85.97

22.05

13.44
5.44
c8.00

2+31.21

13.16

12.36
5.86
c7.20

+50.97

21.12

14.37
6.37
c8.00

+95.29

12.38

13.04
8.08
c6.96

5+15.97

20.19

15.30
7.30
c7.98

7-35.95

13.82 - 11.60

+59.34

Napier St.
M.H. 39
R.P. 5546 30" NW 66' C S+E

7.15
7.17
c10.96

14.41
7.15
7.31
7.14

+80.97

19.26

16.33
8.17
c8.06

1+27.48

10.77

14.65
7.21
c7.44

+15.97

18.33

17.16
9.06
c8.10

+95.61

10.58

14.84
7.24
c7.60

8-35

18.09 - 17.40

1+10.97

Goldfield
M.H. 43

9.77
c8.33

18.43
9.77
c8.56

4+13.22

R.P. 5548 S E P 25' x 225'

8.33
S+E

+63.74

10.38

15.04
7.08
c7.96

+75.04

16.28

19.21
11.02
c8.19

+31.87

10.19

15.23
7.03
c8.20

TP

10.55 35.49

0.48

21.94

9.00
1.94
c7.98

+39.09

15.50

0+0 = M.H. 39

10.36

10.00

15.42

2+03.14

14.72

16.70
2.75
c7.75

BM

2.52

25.42

21.90

SETOP
F.H.D.
May of
Chicago

25.42

Hapier ST

May 30-49

21

BM 12.11 33.08 393 4297
13.04
1821-12
D Chicago/D
SF R
E-10

BM 504 55.03
N.W. BP
Hapier +
Frankfort
35.13

+99.82 - MN 452
RP 45° SF 848+848 35.00 34.41

13423.78 - MH 458
Frankfort 7.8
North
14.07
4.22
46.00
45.46
14.61
1.22
16.37 N+S

+61.22 33.21
13.69
5.16
08.23

TP 7.09 60.07 2.10 52.98

INDEXED
W.K.
AUG 1 1949

+91.34 44.76
10.31
0.20
10.10

7+22.61 32.02
14.08
1.76
08.72

+59.51 44.06
11.02
1.61
09.46

+84.01 30.82
16.08
8.07
08.01

12+27.67 43.36
11.72
3.17
08.56

+45.40 29.62
17.28
2.32
07.71

+95.84 42.66
12.42
1.54
07.88

8+06.80 28.43
18.47
12.25
07.73

5-31.89

TP 12.09 46.90 0.68 34.81
8.26
0.68
07.58

+61.00
Δ 19° 18' RT
MH 451
RP 02 10.09 + 6.09

+68.19 27.72

11+31.16 40.45
14.63
7.25
07.38

7+29.58 26.04
9.45
2.04
07.44

+98.33 38.94
16.14
8.73
07.71

8-38.61
+90.97 - Denver to North
MH 47
RP 45° RP 848+848 25.50 24.84
9.99
1.89
4.80
N+S

+65.49 37.43
17.65
10.77
07.10

6155.97 23.91
11.58
3.82
07.76
8. RT 10.50

10+32.66 35.92
19.16
16.29
07.67

33.49

5-58.84

Sewer Grader Chicago St.
South of Napier St.

April 28 49

BM

581 55.11

N.V.R.P.
Napier +
Frankfort
35.75

TP

0.97 60.92 1285 59.95

72.807
opp page

+96.13 = Plug

12.97

12.45
6.30
6.15
C.R. Forst

INDEXED

W.K.
AUG 1 1949

+12.45

12.74

12.18
6.51
6.17

+30.76

12.51

12.91
6.80
6.77

000

+98.07

12.28

13.16
6.87
6.27

+65.38

12.06

13.36
7.12
6.24

+32.69

11.83

13.59
7.37
6.78
C.R. Forst

+32.69

11.60

040 = MH #39

25.42 St. Ford Page 10

Sewer Grader Alley Block 88

From Milton to Napier
Between Frankfort + Galveston

22

8.10
3.96
4.14

+50 = MH #15

64.40

3+15

INDEXED

W.K.

AUG 1 1949

63.14 9.66
3.92
05.74

+80

61.88

10.92
4.50
06.73

TP

4.83

Ford Page 11
72.80

2.67

67.97

+45

60.62

10.07
2.67
07.35

2+10

59.36

11.28
5.00
06.79

+75

58.10

12.54
5.24
07.78

+10

56.84

13.80
7.14
06.74

+05

55.58

15.08
8.20
06.6

+70

54.36

16.32
9.80
7.52
06.52

+25

53.06

17.58
11.84
05.74

040 = MH #64

51.50 51.80

TP

11.60

70.64

1.70

59.04

60.24 St. Ford Page 16

Sewer Grader Goldfield
South of Harper

offset 6' Rtar West

May 4. 49
S. 5507
Roberts
Burger

23

8-34.69 Δ 1°06'30" Rt.
2+77.00 = MH #40
R.P. on split A 6+6 Rt. c19.62

6+31.64

22.45

13.62
5.97
c7.65

+42.37

INDEXED
M.K.

19.34

12.17
4.93
c7.24

+92.83

800

22.15

13.92
6.33
c7.59

2+07.75

AUG 1949

19.06

12.75
5.66
c7.69

3 H 56707 St.
+54.58 = MH #45
Δ 6°10' Rt. R.P. on split 6+6 Rt.

TP

6.87

36.07

2.11

29.30

14.23
6.86
c7.37

5+19.82

21.56

10.25
2.58
c7.67

+73.12

18.78

13.03
5.40
c7.63

+85.13

21.28

10.52
2.16
c7.87

+38.50

18.51

13.20
5.26
c7.57

+50.44

21.00

10.81
3.87
c7.94

1403.87

18.23

13.58
6.06
c7.56

4+13.75

20.73

11.08
3.17
c7.91

+69.25

17.95

13.81
5.77
c7.82

+81.07

20.45

11.36
3.63
c7.83

+34.62

17.68

14.13
6.74
c7.71

+46.38

20.17

11.64
3.87
c7.77

0+0 = MH #42

17.06

17.40

2+11.19

19.90

11.91
4.14
c7.77

8M

.609

31.81

25.72

No. 1 5.81
MH #42
Page 20

31.81

Goldfield Sandbag Paper

BM		0.20	46.69	2.589 2.589 46.73
TP	11.88	46.89	1.06	35.01
	10 + 14.50 = MH #46		25.52	10.57 2.589 29.97

+76.16			25.22	15.85 2.98 22.87
--------	--	--	-------	------------------------

9 + 27.83			24.91	11.16 3.39 7.77
-----------	--	--	-------	-----------------------

+99.50			24.60	11.47 3.26 7.71
--------	--	--	-------	-----------------------

+61.16			24.30	11.77 4.11 7.66
--------	--	--	-------	-----------------------

8 + 22.83		800	23.99	12.08 4.53 7.55
-----------	--	-----	-------	-----------------------

+84.50			23.68	12.39 4.27 7.62
--------	--	--	-------	-----------------------

+46.16			23.37	12.70 5.29 7.41
--------	--	--	-------	-----------------------

7 + 07.83			23.07	13.00 5.57 7.46
-----------	--	--	-------	-----------------------

6 + 69.50			22.76	13.31 5.81 7.56
-----------	--	--	-------	-----------------------

INDEXED
W.K.
AUG 1 1949

3607

Sewer Grader Denver St. May 4-49 **24**
North of Napier

+84.13 = Plug			27.49	10.52 3.84 25.19
---------------	--	--	-------	------------------------

+52.56			27.27	10.75 5.24 25.57
--------	--	--	-------	------------------------

2 + 20.99			27.05	10.97 5.37 25.63
-----------	--	--	-------	------------------------

+89.42			26.83	11.19 5.38 25.81
--------	--	--	-------	------------------------

+57.85			26.60	11.42 5.39 26.03
--------	--	--	-------	------------------------

1 + 26.28		700	26.38	11.64 5.49 26.15
-----------	--	-----	-------	------------------------

+94.71			26.16	11.86 5.63 26.31
--------	--	--	-------	------------------------

+63.14			25.94	12.08 5.68 26.74
--------	--	--	-------	------------------------

+31.57			25.72	12.30 5.62 26.82 8' or 8'
--------	--	--	-------	------------------------------------

9-31-57			25.50	
040 = MH #47 Napier				

BM 542 58.02			52.60	on R.P. Nail SAS SE MH #47 Page 21
--------------	--	--	-------	---

Sewer Grades Denver St
South of Harper

May 12 19
H. Sisson
Robert R
Barger

25

			+58.79		30.11	11.48 5.81 c6.77
+92.60		27.55 ^{10.17} _{3.69} c6.78				
			+22.08		29.86	11.73 5.51 c6.22
+56.03		27.29 ^{10.42} _{3.92} c6.57				
			+85.45		29.60	11.99 5.71 c6.28
2 +19.45		27.04 ^{10.68} _{4.22} c6.76				
			+48.82		29.35	12.22 5.87 c6.35
+82.87		26.78 ^{10.94} _{4.61} c6.33				
	200		5+12.20		29.09	12.50 6.17 c6.33
+46.30		26.52 ^{11.20} _{4.86} c6.36				
			+75.57		28.85	12.76 6.39 c6.37
1+09.72		26.27 ^{11.45} _{5.04} c6.41	TP 6.38	41.59	2.51	35.21
			+38.95			28.57
+73.15		26.01 ^{11.71} _{5.25} c6.46	11-36.63			28.57
			4+02.32	RP 0-5 ft 82° 27' 15" 6.01 + 6.0		28.32
+36.575		25.76 ^{11.96} _{5.84} c6.44 6 RT		M.H. 48 27° 11' 55" RT.		28.32
11-36.57			+65.75			28.06
0+0 = M.H. 47		24.84				28.06
		25.50				28.06
			27.2917			27.80
BM	3.92	37.72				27.80
		33.80				27.80
		8 W TOP P Hyd Hopper + Down 209620				27.72

Sewer Grader Eriost
South of Napier

0+0 to 5+0 Nails 6' Rt or West of S
5+0 to 10+0 134 Nails 6' S or East of S

27

3+07.69 ✓

INDEXED
W.K.
AUG 1 1949

37.34 ¹⁰⁰⁵
~~2.89~~
c7.19

+92.82

38.56 ¹¹⁰⁵
~~4.13~~
c6.78

+69.22 ✓

37.01 ¹⁰³⁸
~~3.13~~
c7.25

+54.26

38.83 ¹⁰⁷⁸
~~3.26~~
c7.62

2+30.96 ✓

36.68 ¹⁰⁷¹
~~3.29~~
c7.02

+15.70

39.10 ¹⁰⁵⁶
~~3.23~~
c6.88

+92.30 ✓

36.35 ¹¹⁰⁴
~~4.26~~
c6.84

+77.13

39.37 ¹⁰³⁴
~~3.92~~
c6.82

+53.84 ✓

800

36.02 ¹¹³²
~~4.63~~
c6.77

+38.56

39.64 ⁹⁹⁷
~~3.17~~
c6.58

1+15.38 ✓

35.69 ¹¹⁷⁰
~~5.60~~
c6.70

TP 363 49.61 141 45.98
Δ 1°30' Rt
5+00 = MH #53

748 → 39.91 ⁸³⁰
141 → 39.00 ^{1.41}
c6.075 c6.98

+76.92 ✓

35.36 ¹²⁰³
~~5.34~~
c6.69

+61.53 ✓

38.66 ⁸⁷³
~~1.63~~
c7.10

+38.46 ✓

35.03 ¹²³⁶
~~3.65~~
c6.71

4+22.07 ✓

38.33 ⁹⁰⁶
~~1.90~~
c7.12

12-38.46

+84.61 ✓

38.00 ⁹³⁰
~~2.20~~
c7.12

0+0 = MH #52

38.00 34.41 34.70

3746.15

37.67 ⁹⁷⁷
~~2.52~~
c7.16

RM

142 47.39

42.97

S.E. Chin II
Napier
Eria
Page 21

47.39

Eric St South of Napier

JP	1003	55.56	4.08	45.53	11.27 4.10 c7.17
				38.34	
				37.87	11.74 4.62 c7.10
				37.40	13.21 4.85 c8.86 H.W.
				36.10	
				36.67	12.94 3.36 c7.58
				36.94	12.67 5.66 c7.61
				37.21	12.13 5.63 c7.23
				37.48	12.13 4.96 c7.23
				37.75	11.81 4.82 c7.04
				38.02	11.59 4.86 c7.03
				38.29	11.32 4.38 c6.94

1961

				14+28.44	44.71	10.85 4.17 c6.69
				+9.59	43.41	12.15 5.19 c6.96
				6-32.50	42.11	13.45 5.95 c7.50
				+63.44 - M.H. #55	49.81	14.40 7.81 c6.59
				For check on 25/11 1991 1832.27	41.63	14.89 7.87 c7.00
				13+27.23	40.69	15.31 8.41 c6.93
				+91.02	39.75	15.81 8.76 c7.05
				+54.81	39.28	16.28 7.85 c7.05
				12+18.60	38.81	16.75 9.88 c7.07
				+82.39		
				+46.18		
				11+09.97		

55.56

Eric St. South of Napier

Eric St. North of Napier

May 20-49

Sissey
Robert
Cofa

29

+80 = MH #51

37.66

11.30
5.49
c5.81

+42

37.39

11.57
4.87
c6.70

3+04

37.13

11.83
4.34
c7.49

+66

36.82

12.14
4.09
c8.05

2+28

36.60

12.36
4.25
c8.11

+90

36.33

12.63
4.51
c8.12

+52

36.06

12.90
4.84
c8.06

007

+58.44 = Plog

49.91

11.58
5.31
c6.27

1+14

35.80

13.16
5.12
c7.98

TP 6.51

61.49

0.58 5498

6.95
0.62
c6.33

+76

35.53

13.42
5.57
c7.85

15+25.94

48.61

+93.44

47.31

8.25
1.91
c6.34

+38

35.27

13.69
6.14
c7.55

1A+60.94

16.01

9.55
2.17
6.77

0+0 = MH #52

34.90 34.41 35.00

13.96
6.32
c7.74

55.58

8 M

5.99

48.96

14.28
6.32
c7.96

42.97

Page 31
St. Charles
Napier

Saxer Grader Frankfurt
North + South Napier

June 1-49
S. Sison
Roberts
Barger
Cofa

Frankfurt
South of Napier

June 6-49

30

3 + 0 = MH #57	48.10	^{12.84} ^{2.50} c 5.25
+ 62.5	17.83	^{13.11} ^{6.97} c 6.14
2 + 2.5	17.57	^{13.37} ^{6.25} c 6.92
+ 87.5	17.31	^{13.63} ^{6.57} c 7.07
+ 50	17.05	^{13.89} ^{6.81} c 7.68
1 + 12.5	16.78	^{14.16} ^{5.28} c 8.38
+ 75	16.52	^{14.42} ^{5.52} c 9.02
+ 37.5	16.26	^{14.68} ^{4.95} c 9.73
8 - 37.5		^{14.94} ^{4.43} c 10.07
0 + 0 = MH #58 North	45.46	46.00
BM 5.81	60.94	55.13

3 + 35.45	47.93	^{13.39} ^{2.55} c 8.73
+ 98.18	17.66	^{13.56} ^{2.72} c 8.83
+ 62.10	17.38	^{13.81} ^{2.82} c 8.97
2 + 22.63	17.11	^{14.11} ^{5.06} c 9.09
+ 86.36	16.83	^{14.39} ^{4.57} c 9.35
+ 49.08	16.56	^{14.66} ^{5.27} c 9.59
1 + 11.81	16.28	^{14.94} ^{4.43} c 9.52
+ 74.59	16.01	^{15.21} ^{5.28} c 9.73
+ 37.27	15.73	^{15.49} ^{5.54} c 9.75
11 - 37.27		
0 + 0 South	45.46	
BM 6.09	61.22	55.13

N. 14 BP
Napier
Frankfort
P21

Frankfurt + Orten St.

Orten St.

June 18-49

31

TP 8.43 86.19 321 77.76

7+14.69 69.00

11.97
3.85
c8.12

+78.73 66.00

14.97
14.97
c8.04

+42.77 63.00

17.97
16.19
c7.78

TP 12.38 80.97 1.04 68.65

R.P. 15.00 S.F. 8.48 + 8.48

6+06.81 = M.H. 67.2 M.H. S.F. 11.00

60.50
9.19
1.57
c7.67

7.69
1.57
c8.12 E6

+67.44 57.40

12.99
1.55
c7.64

5+28.08 55.30

12.99
1.55
c7.43

+88.72 53.20

16.49
8.26
c7.23

+49.36 51.10

18.99
1.55
c8.64

TP 13.59 69.69 4.12 67.10

Orten R.P. 15.00 S.F. 8.48 + 8.48 = 49.00

4+10.00 = M.H. 57.59 S.F. 8.48 + 8.48 = 48.49

S.F. or F

12.73
2.12
8.55
c8.55

3+72.72 48.21

13.01
4.40
c8.61

61.23

10+27.89

+97.89

+67.89

+37.89

9+07.89

+77.89

+47.89

8+17.89

B.M. 11.80 95.96 2.03

+87.89 + Galverton North Page 155

+86.62 = M.H. 76

R.P. 45 S.F. 8.48 + 8.48

7+58.65

86.19

83.00

82.00

81.00

80.00

79.00

78.00

77.00

76.00

84.16

75.00

72.00

12.96
1.80
c8.16

13.96
5.36
c8.60

14.96
5.55
c9.41

15.96
5.42
c10.50

16.96
5.27
c11.69

17.96
5.12
c12.84

18.96
4.97
c14.01

19.96
4.82
c15.14

20.96
4.67
c16.28

21.96
4.52
c17.41

22.96
4.37
c18.54

0.33

0.33

Horton St.

Senior Grader Alley Block H - S. ORCHARD TRACT
North of orten Between Frankford 34
& Galveston

June 8-47

+93.25 = M.H. #70
F24

60.75

3+30 = M.H. #66 RP 6x43 Nail
1/2 fence 67.99

90.1

28.7

67.3

10.60

2.13

69.56

+57.54

60.50

+97

67.24

INDEXED

W.K.

AUG 1 1949

66.49

11.44

2.63

68.51

INDEXED

W.K.

AUG 1 1949

9+31.82

60.25

+64

2+31

65.74

12.14

3.66

69.16

+86.11

60.00

+98

64.99

12.96

4.59

68.55

+50.39

59.75

+65

64.25

13.18

5.84

67.87

8+14.68

59.50

1+32

62.50

14.07

6.16

67.83

+78.96

59.25

+99

62.75

15.18

7.49

67.69

7-35.71

2 H+S Alley

+43.25

M.H. #19 AP

R.P. 45 SF 848 & 848

60.10

7.97

67.88

59.00

9.30

6.93

68.16

67.29

1823-66

+66

62.00

15.93

8.64

67.89

For Ch. c. l. v

7+10.44

57.00

+33

61.25

16.18

9.40

67.78

6+77.64

55.00

10-83

13.37

6.09

67.30

0+0 = M.H. #67

59.50

60.00

60.50

BM

9.81

77.93

68.12

07 SF 06

M.H. 67 P. 31

Sewer Grader Frankfort
North of Ashton

June 1-19
H. S. S. on
Barger
Cota
Chavez

35

3+0	49.10	11.71 4.65 c7.06			
+62.5	48.84	14.97 4.86 c7.11			
2+2.5	48.58	12.33 4.73 c7.50	6+0.0 = Plug	51.20	9.61 3.37 c6.24
+87.5	48.32	12.40 4.69 c7.80	+62.5	50.94	9.89 3.21 c6.86
+50	48.05	13.26 4.70 c8.56	5+2.5	50.67	10.14 3.98 c7.16
1+12.5	47.79	13.02 4.22 c8.30	+87.5	50.41	10.40 3.40 c7.60
+75	47.53	13.38 4.21 c8.37	+50 - MH #60	50.15	10.66 3.83 c6.87
+37.5	47.26	13.55 4.21 c8.64	1+12.5	49.89	10.92 3.81 c7.61
12-37.5 to Ashton 0+0 = MH #61	46.50	47.00	+75	49.63	11.18 4.12 c7.06
B.M. 5.06 60.81	55.75	54.6 MH #61 P33	3+37.5	49.37	11.46 4.39 c6.95

60.81

Sewer Grader Frankfort
South of Hobton

Jan 6-49
F.S. Wob
Barger
Cofa
EECHOVZ

BM Rec 64.12

265 64.09
56.25 67.67 **36**

+70 - chimney

1.57
3.14
c12.75

48.48
48.39 ✓

15.00
3.82
c12.38

+42

55.16

12.58
3.36
c9.28

8-38.125

100

7+09

54.07

13.67
3.37
c10.30

3+05.00 = MH #62 RP98.66W

48.22

16.17
4.46
c11.71

+80 - chimney

16.27
2.99
c11.28

48.12

+76

52.98

14.26
3.28
c11.28

72.87
+66.87

48.09

16.30
5.73
c11.17

+60 - chimney

15.51
3.22
c12.02

52.23

+43

51.89

15.88
3.62
c12.37

34.25
2+28.75

47.97

16.46
5.91
c10.55

5-33

* Gardner R.R. 45.5W
8.48+8.48

16.94
3.66
c13.28

50.80

18.30
3.66
c14.64

96.62
+90.62

47.76

16.61
6.65
c9.95

TP

3.80

67.74

0.45

63.94

15.08
3.25
c14.63

58.50
+52.50

47.64

16.76
7.42
c9.34

+40 - chimney

49.16

15.23
0.89
c14.54

5+33.75 out

49.13 out

20.37
1+14.37

47.46

16.91
8.63
c8.78

5+01.62
+95.62

49.00

15.39
1.88
c14.37

82.25
+76.25

47.30

17.07
8.84
c8.24

63.50
+57.50 ✓

48.83

15.62
1.52
c13.95

44.12
+38.72

47.15

17.22
9.22
c8.00
8' wat.

25.37
4+77.37

48.58

15.19
2.22
c12.97

0+0 = M.H. #61

46.50

47.00

stubs
MH #61
Papp33

89.25
3+81.25

48.54

15.85
2.87
c12.98

BM 864

64.39

55.75

61.39

Sewer Grader Frankfort

North of Sellett.

TP for check

+50 = MH #25
RP. 6+6 RP. 0.2

May 24-49

same as Page 46

4.39 112.40

4.39 102.55

09.85

112.46
38

07.25
1.47

3+15

101.40

15.30

7.92

TP

6.16

116.79

0.58

110.63

10.97

05.8

+80

100.81

10.39

+45

99.08

12.13

3.01

2+10

97.93

13.28

3.86

+75

96.77

14.46

5.49

+40

95.62

15.50

7.88

1+05

94.46

16.75

9.02

7+05.25 = MH #41

0 15.52

10.16
2.66
08.10

+70

93.31

17.90

10.28

+69.25

15.27

10.44
2.27
08.14

+35

92.15

19.06

11.58

6+33.25

15.02

10.66
2.37
08.09

10.35

89.50

91.00

25.68

0+0 = MH #26

BM

12.87

111.21

89.50

91.00

98.84

17.47

10.26

10.26

Snyder Grader Littlefield Moreno Blvd.
to Eric St.

States effort
6' R or South of L

39

INDEXED

W.K.
AUG 2 1949

			17.40					25.06	15.96
+38.12			6.82 c7.58		+92.17				9.68 c8.28
TP	11.08	30.07	12.67	18.99	+56.75			23.71	17.31 11.06 c6.25
2+02.73			11.53	9.07 1.58 c7.46	TP	11.94	41.02	0.99	29.08
					5+21.34			22.37	2.70 0.99 c6.71
+67.34			10.40	10.17 2.82 c7.25					
		0.34		11.30	+85.92			21.02	2.05 2.00 c7.05
1+31.94			9.27	3.99 c7.31					
55.07					+50.50			19.68	10.39 3.34 c7.05
+96.55			8.13	12.41 3.69 c7.75	1+35.72				
					4+15.08	Goldfield South - MH #33 RR 646 Rt.		18.33	14.74 4.85 c7.09
+61.16 = MH #30	RP 15' Moreno 848' 848.5'	0	7.00 E	13.57 6.84 c6.93.5					
			5.52		+79.69			17.20	12.87 5.75 c7.12
BM	582	20.57	14.75	ch 1512 H. E. Curie Rd Moreno Littlefield					
+44.0 = Pav.			3.80	15.86 c10.15				16.07	14.90 8.81 c7.39
		0.10			+44.20				
+25			+1.60	18.21 5.88 c12.33				14.93	15.11 7.53 c7.59
0+0 = Exit Man Hole			-0.60	20.41 5.06 c15.39	3+08.90				
				on Nail Pav MH #30 #6000	2+73.57			13.80	16.22 8.66 c7.51

30.07

Littlefield

BM

5.74

46.68

N.E.B.P.
D. Littlefield Page 26
16.73

Jan 21 49
F. Sisson
Garber
Cota
Chavez

40

+51.01

38.81

13.61
2.80
c7.31

9+14.03

37.36

15.06
7.37
c7.79

RR 6' 46' for 50.

+83.80 = M.H.#25

51.79

11.04
1.89
c9.15

+77.06

35.92

16.50
8.37
c8.13

+46.83

50.34

13.49
2.33
c8.16

12-36.98

+10.08 = M.H.#24

34.48

17.94
9.76
c8.18

12+09.86

48.90

13.99
7.06
c6.87

8+04.68

33.14

19.38
10.77
c8.87

TP

11.74

53.42

0.34

40.68

+72.87

47.46

15.37
7.59
c5.78

+69.26

31.79

9.23
6.34
c8.87

TP

11.33

62.83

0.93

51.50

6.40
0.93
c5.78

7+33.84

30.44

10.38
1.94
c8.64

11+35.90

46.02

0.30

2.87

+98.42

8.20

29.10

11.92
4.57
c7.35

+98.92

44.57

9.30
3.80
c5.79

+62.00

27.75

13.27
6.34
c6.88

+61.94

43.13

10+24.96

41.69

10.72
4.26
c6.46

6+27.59

26.41

14.51
7.78
c6.83

9+87.99

40.25

12.17
5.58
c6.59

41.02

52.42

Eric St North of Milton

+75			50.45	17.04 8.28 c8.36
TP	975	67.49	2.21	57.74
+40			49.87	16.08 8.21 c7.87
9+05			49.29	10.66 8.82 c9.87
+70	2 Kanast - MH #17 R.P. 6+8 St.		48.71	11.24 8.72 c8.52 6' R.H.
+40			48.21	11.69 8.25 c8.47
8+10			47.81	13.14 8.08 c8.06
+80			47.36	12.50 8.32 c8.27
+45			46.83	13.19 8.48 c8.64
7+10			46.31	13.64 8.76 c8.88
6+75			45.78	14.17 8.99 c9.20 8' R.P.F

59.95

BM		6.85	63.88	82
TP	490	70.73	1.66	65.83
13+10	2 Jellch St. - MH #16		56.01	11.48 8.12 c10.33
+80			55.51	11.98 8.83 c10.15
+50			55.01	13.48 8.25 c10.23
12+20			54.51	13.98 8.06 c9.92
+85			53.93	13.56 8.75 c9.81
+50			53.35	14.14 8.57 c9.77
11+15			52.77	14.73 8.16 c9.57
+80			52.19	15.30 8.38 c9.92
+45			51.61	15.88 8.86 c9.02
10+10			51.03	16.46 9.58 c8.88 6' R.P.F

67.49

Sewer Grades Alley Between
 Erie St + Frankfurt St.
 Milton to South of Ingulf St.

Alley
 Stock
 15-66-67-68
 More to Add

May 12-49
 H. S. Iron
 Roberts
 Garber

44

+76.66			5538	10.38 2.86 c773	+40				62.86	12.35 3.86 c6.69
+58.33			54.19	11.50 3.50 c7.57	+40.5				62.40	13.81 3.80 c7.27
6-38.83			53.00	12.77 2.91 c7.86	+70				61.95	13.26 5.28 c7.28
2+0 = Grade Brk.			51.20	12.57 6.27 c8.30	+35				61.50	13.26 8.27 c7.94
+70			49.40	16.37 8.31 c8.06	+50				61.04	14.12 7.27 c6.70
+40			47.00	18.17 11.28 c6.69	+65				60.58	14.63 7.46 c7.17
1+05			53.28	8.15 3.26 c5.69	TP	8.26	75.21	10.31	66.85	17.03 10.31 c6.73 145
TP	12.49	65.77	0.37		4+30	8 Lister = MH #23		61.00	60.13	
+70			43.10	10.55 1.53 c6.02	+9.66			16.16 10.31 c5.85 for 1	58.94	18.22 11.59 c6.53
+35			41.00		TP	12.49	77.16	1.10	64.67	
0+0 = MH #24 & Milton					+53.33				57.76	8.01 1.10 c6.91
					3+15				56.57	9.70 3.03 c7.17

526581 Ford
 10/20/16

6577

+75			67.42	14.95 8.72 c6.77
+40			66.90	15.17 7.96 c7.51
TP	8.10	82.37	094 ¹⁰ 74.27	8.84 0.85 c7.89
9+0.5			66.37	8.84 0.85 c7.89
+70	2 Kanc		65.85	9.36 1.63 c7.73
	MH # 22			
+10			65.46	9.75 2.02 c7.73
8+10			65.07	10.14 2.21 c7.93
+80			64.68	10.53 2.57 c7.74
+45			64.22	10.99 3.80 c7.69
7+10			63.77	11.44 4.79 c6.65
6+75			63.31	11.90 5.28 c6.61

7521

8-27.5				
13+10	2 Selett			9.92 1.22 c7.77
	MH # 21			73.00 9.37 2.25 c7.12
+80				72.45 10.37 2.58 c7.79
+50				72.00 10.82 3.07 c7.73
12+20				71.55 11.27 3.83 c7.44
+85				71.10 11.80 4.28 c7.52
+50				70.57 13.22 4.88 c7.47
11+15				70.05 13.85 5.23 c6.72
+80				69.52 13.37 4.77 c6.70
+45				69.00 13.90 5.27 c6.66
10+10				68.47 14.43 5.73 c6.61

82.37

Sewer Grader Jaliett St. And Alley between
 Frankfort & Galveston
 offset C' Rtoft

Block 85
 Morena Way 34-41
 46
 R.S. 5000
 Roberts
 Barger
 Co. Co.

INDEXED

W. K.
 AUG 2 1949

				+80				102.41	15.51 8.11 c7.10
Fer Check	974	8096	on Hub 19+15 8.00 Page 43	+45				98.11	19.86 12.28 c7.33
16+10 - MH # 20		7995	10.75 2.66 c6.09	TP	13.02	117.92	0.53	104.90	11.63 3.83 c7.80
+72.50		79.01	11.69 4.65 c7.54	2+10				93.80	
				5-35					
				2 Frankfort					15.91 6.89 c9.34
				+75 = MH # 26				N 91.00	89.50 c9.34 FIN
15+35		78.07	12.69 7.26 c8.37					14.43 6.59 c7.84H	
				+40				86.20	19.23 11.05 c8.78
+97.50		77.14	12.56 4.30 c9.06	TP	12.71	105.43	0.37	92.72	10.09 2.71 c7.38
				1+05				82.90	
+60		76.20	14.50 5.36 c8.94						
				+70				79.60	13.39 6.89 c6.50
14+22.50		75.26	15.41 7.27 c7.97						
				+35				76.30	16.69 10.20 c6.37
+85		74.32	16.38 7.04 c7.37	5-35					
TP	957	90.70		2 Alley East of Erie					
13+47.5		73.39	8.98 1.24 c7.74	0+0 = MH # 21				72.45	73.00
				BM	12.87	92.99		80.12	on Hub 13+10 MH # 21 Page 45
		82.37							

+95 126.70 $\begin{matrix} 12.75 \\ 5.75 \\ -7.00 \end{matrix}$

+60 124.60 $\begin{matrix} 14.85 \\ 7.85 \\ -7.00 \end{matrix}$

5+25 122.50 $\begin{matrix} 16.95 \\ 9.55 \\ -7.9 \end{matrix}$

TP 11.69 139.45 0.76 127.76 $\begin{matrix} 0.2505 \\ 6.17490 \end{matrix}$

+90 120.40 $\begin{matrix} 8.12 \\ 0.76 \\ -7.36 \end{matrix}$

TP 12.69 112.96 $\begin{matrix} 0.2506 \\ 6.174 \\ 3.75025 \\ 7.11425 \end{matrix}$

+55 118.30 $\begin{matrix} 10.22 \\ 3.21 \\ -7.67 \end{matrix}$

TP 1.87 125.15 12.38 123.78

4+20 116.20 $\begin{matrix} 12.32 \\ 5.97 \\ -6.55 \end{matrix}$

TP 0.49 136.16 3.78 135.67

+85 114.10 $\begin{matrix} 14.42 \\ 7.52 \\ -6.98 \end{matrix}$

7+0 R.P. 646 R.P. 133.00 $\begin{matrix} 6.95 \\ 0.17 \\ 0.598 \end{matrix}$

10-35

+50 = J.M.H. #28 $\begin{matrix} 16.52 \\ 8.82 \\ 8.65 \end{matrix}$ 112.00 $\begin{matrix} 17.50 \\ 8.87 \\ 68.63 \end{matrix}$
 $\Delta 89^{\circ} 58' 30''$ 111.02 $\begin{matrix} 8.65 \\ 11 \end{matrix}$

TP 11.60 128.52 1.00 116.92

+65 130.90 $\begin{matrix} 8.53 \\ 2.12 \\ -6.43 \end{matrix}$

3+15 106.71 $\begin{matrix} 11.21 \\ 3.16 \\ 8.05 \\ -6.81 \end{matrix}$

6+30 128.80 $\begin{matrix} 18.65 \\ 3.81 \\ -6.99 \end{matrix}$

117.92

139.45

Sewer Grader East Side Moreno Blvd.
South of Littlefield

offset 6' prior to
darker paving

June 24 49
F.S. Moran
Garber
Cota
Cbariez **48**

+80			7.20	11.97 4.79 c7.18
+45 ✓			6.99	12.18 2.86 c7.32
2+10			6.78	12.39 2.91 c7.48
+75 ✓			6.57	12.60 2.92 c7.68
TP	500	19.17	14.17	offset c8.1 11.40
+40			6.36	14.81 6.20 c7.81
1+0.5			6.45	14.47 6.38 c8.09
+70			5.94	14.63 6.43 c8.20
+35			5.73	14.83 6.67 c8.27 6' prior
0+0 = MH #30			5.52	
BM	5.88	20.57	14.75	Chisel II N 2' curb Moreno Littlefield

+7.55			9.36	13.05 6.12 c6.91
+43.0			9.04	13.37 8.86 c6.75
5+10.5			8.71	13.79 7.18 c6.58
8-32.5			8.39	14.02 7.57 c6.45
TP	78°	22.41	4.56	14.61
+55			8.25	10.92 4.58 c6.36
4+20			8.04	11.13 4.63 c6.50
+85			7.83	11.34 4.80 c6.79
+50			7.62	11.55 4.71 c6.84
3+15			7.41	11.76 4.85 c7.01

19.17

Seixer Grader Moreno Blvd.
North of Littlefield

Jan 23 49 **49**
5-5160
Garber
Cota

				2+10 = Plug	6.99	13.58 6.18 c7.78
				+75	6.74	13.82 5.96 c7.87
				+40	6.50	14.57 5.90 c8.17
+38.0 = MH #32	10.99	11.42 3.52 c7.88		1+41	6.29	14.58 5.90 c8.58
7+0.550	10.66	11.75 4.03 c7.72		+70	6.01	14.56 6.38 c8.18
+73.0	10.34	12.02 2.56 c7.53		+35	5.76	14.81 4.20 c10.61 C.R. Fort
+40.5	10.01	12.40 6.08 c7.22		0+0 = MH #30	5.52	
6+0.8	9.69	12.77 5.86 c7.10		BM	5.82	20.57
					14.75	Chick D N. E. 1/4 Moreno, N Littlefield 1821-40

2241

Paving Grades 49th St.
Hst. to Lyon St.

INDEXED

W.K.

AUG 2 1949

	Gut	2 1/2 ft	2	Gut
+50	20527 5.39✓	20482 5.82✓ 5.74✓ C0.40	20542 5.21✓	20567 4.99
270	20509 5.57✓	20464 6.02✓ 5.58✓ C0.52	20524 5.42✓	
+50	20445 5.71✓	20450 6.16✓ 5.59✓ C0.47	20510 5.51✓ 5.75✓ C0.40	
2+0	20475 5.91✓	20420 6.36✓ 5.83✓ C0.53	20490 5.76✓ 5.43✓ C0.33	
+50	20455 6.11✓	20410 6.56✓	20470 5.98✓	
1+0	20435 8.31✓	20390 6.76✓ 6.76✓ 6.0	20450 6.16✓ 7.01✓ F0.85	
0+0 = B.C.H				
877	207	21066	20829	

H.I. TOP OF HST
H ST + 10 1/2
1682-17

May 2-49
45.5007
Roberts
Barger
H.O. 60135

	2 1/2 ft	2	2 1/2 ft	2
+50	20669 3.97	20648 3.76✓	20710 3.56✓	20697 3.69
7+0	20675 3.91✓	20620 4.36✓	20690 3.76✓	20670 3.96✓
+50	20655 4.11✓	20610 4.56✓ 4.28✓ C0.28	20670 2.96✓	20650 4.15✓
6+0	20625 4.31✓	20590 4.76✓ 4.26✓ C0.57	20650 4.16✓	20630 4.36✓ 3.98✓ C0.38
+50	20615 4.51✓	20570 4.96✓ 4.23✓ C0.72	20630 4.36✓ 4.08✓ C0.36	20610 4.56✓ 4.12✓ C0.42
5+0	20595 4.71✓	20560 5.16✓ 4.43✓ C0.7	20610 4.56✓	20590 4.76✓ 4.27✓
+50	20575 4.91✓	20530 5.36✓ 4.28✓ C0.53	20590 4.76✓	20570 4.96✓
4+0	20565 5.11✓	20510 5.56✓ 4.28✓ C0.52	20570 4.96✓	20550 5.16✓

Gutter Grade = Finish
2 + 20' RT + 41 = sub Grade and 20' RT Finish
Grader From Yellow Stand.

50

20' RT

Broadway North Gutter Grader
1315 to 1415 ft.

INDEXED

W.K.
AUG 2 1949

BM

11.52

62.18

N.Y.R.P.
50.95 E 1415 ft

1415 ft

May 3-49

51

Sisson
Roberts
Bargen

W.O. 60 13.5

57.35

5 ft

inlet

56.66 - Pavement

Put in 1/2 station
set gutter & cars

Broadway

58.33

57.83

= 0.50 Above Pav

outlet

1315 ft

Paving Grader West Side 497557
Lyons St + South

- Grader are Sub Grade

9 + 70.73 = CB BC 20843 ⁴⁶²

9 + 30.71 = CB

9 + 25.77 = ~~CB~~

+ 20.71 = sch Lyons

9 + 80.73 = CB BC 20718 ⁵⁹²

8 + 48.1 =

8 = 154

+ 82.7

7 + 50

206.60

BM

• 477

21210

208.53

• 2 Rock
• 5 Rock
• Lyons
49

May 24-49
S. J. J. J.
Roberts
Barger
Cohn

Senior Grader Gardens Ave. And
 Alley Block C South Orchard Tract

TP	1141	68.68	10.97	57.27	15.34 10.27 c 4.87
3 + 01.80				52.40	
+ 66.86				51.68	16.06 11.53 c 4.54
2 + 31.80				50.95	16.79 11.26 c 4.85
8-35					
+ 96.80 - MH # 72	2 Alley			50.23	17.51 13.26 c 4.25
+ 57.14				50.07	17.67 16.24 c 6.93
1 + 18.08				49.91	17.83 9.74 c 8.09
+ 78.72				49.76	17.98 8.49 c 9.49
+ 39.36				49.60	18.14 7.12 c 11.02
5-39.36					
0 + 0 - MH # 63				49.44	
B.M.	8.66	67.74		64.08	0.08 + 0.5 MH 63 Page 36

INDEXED
 W.K.
 AUG 2 1949

0.07

0.04

0.07

+ 76.80	= MH # 71	56.03	13.65 8.84 c 7.84
+ 41.80		55.30	13.38 2.78 c 6.20
+ 406.80		54.58	14.10 8.22 c 5.38
+ 71.80		53.86	14.82 10.18 c 1.64
2 + 36.80		53.13	15.55 10.82 c 4.93 6.8

Sewer Grader Alley Block B + Alley Block C
 Orton to South of Ashton ^{South Culbert}
 0+0 to 3+50 Stakes 6' East of ^{Tract}

3+50 to 7+0
 Stakes 6' East of

June 8-49
 S. S. R. 2
 Garber
 Cota
 Chavez

54

3+15

62.20 11.95
 6.97
 6.24

+65

60.71

13.44
 5.16
 8.28

+80

61.96 12.19
 6.26
 6.23

6+30

61.02

13.15
 4.75
 8.38

INDEXED
 W.K.
 AUG 2 1949

+45

61.72 12.45
 6.51
 6.52

+95

61.34

12.81
 4.04
 8.77

3+10

61.47 12.88
 3.07
 6.51

+60

61.66

12.10
 3.41
 8.68

+75

61.23 13.22
 3.82
 6.52

5+25

61.98

13.13
 3.04

+40

60.98 13.17
 6.51
 6.66

+90

62.29

11.86
 3.56
 8.30

1+05

60.74 13.41
 6.32
 6.74

+55

62.60

11.55
 3.26
 8.29

+70

60.49 13.66
 7.16
 6.28

4+20

62.92

11.33
 3.32
 8.01

+35

60.25 13.96
 6.90
 6.70

+85

63.21

10.98
 3.93
 6.93

10-35

0+0 = M.H. #67

60.00

10-35

BM

6.03

7+15

68.12

07.56
 7.46
 6.51

3+50 = M.H. #68

R.P. 646 marked 7+15

10.60
 5.25
 6.75

63.55

62.45

11.70
 5.26
 6.44

Hilly Block B and C

Senior Grader Galveston
North of Orton St.

June 13 1949 **55**
Siro
Garber
Cota
Chavez

INDEXED

WIK
AUG 2 1949

INDEXED

WIK
AUG 2 1949

check

771 (3.77)

St. M.H.
#71
62.67
Page 53

3 + 20 = M.H. #75

90.86

6.99
0.19
0.20

9 + 50.00 = M.H. #70

60.75

10.73
5.36
05.37

+ 80

88.54

8.71
1.36
0.75

9 + 14.29

60.50

10.90
3.78
07.28

+ 40

86.82

10.23
1.08
0.85

+ 78.57

60.25

11.23
3.38
07.93

2 + 0

85.10

12.15
2.56
09.59

+ 42.86

1007
60.00

11.48
2.51
08.93

+ 60

82.38

13.87
3.24
010.63

8 + 07.14

59.75

11.73
2.62
08.73

1 + 20

81.66

15.50
2.72
010.81

+ 71.43

59.50

11.98
2.85
09.13

+ 80

79.94

12.31
1.00
010.31

+ 35.71

59.25

12.23
3.97
08.26

+ 40

78.22

19.02
10.00
09.03
6.00

7 - 35.715

8 Ashton
7 + 0 = M.H. #69

59.00
60.40

Page 34

Outcast
0 + 0 = M.H. #76

75.00 76.50

TP

3.97

71.48

6.64

67.57

07.50
7 + 35.71

B.M.

12.09

97.25

84.16

S.F. Corp. P. 100
S. Lee
Galveston
Page 31

Paving Grader Hwy & Selby Alley
 Point Loma Center
 From Chatsworth Blvd to Pointe Ha Dr.

N.O. 80157
 Cross Sec. 1832.15

June 27-49
 F. S. 1807
 W. Garber
 Co. Pa.
 Chavez
 F. H.
 94.68
 12.11 on P.

56

Stationing N=St. F.H.

N=St. 12.63
 12.57 on Pav
 +96.08-51.94.19
 Pointe Ha

INDEXED
 W.K.
 AUG 2 1949

1+0 109.45 6.50
 6.43
 20.16
 3
 109.75 6.29
 5.22
 20.57
 3

+80.05-81.95.70
 11.42
 16.27
 21.21

96.00 11.13
 9.32
 21.80
 3

+80 110.72 5.31
 5.21
 20.50
 3
 111.03 5.06
 4.68
 20.93
 3

+54.78 97.63 9.49
 8.72
 50.77

97.93 9.19
 8.02
 21.17

+60 111.55 4.49
 4.39
 21.00
 20.86
 3
 111.85 4.19
 3.84
 20.25
 3

+29.51 99.56 7.56
 7.11
 20.45
 3

99.86 7.26
 5.40
 21.86
 3

+40 111.89 4.15
 3.15
 21.00
 20.86
 3
 112.19 3.85
 3.06
 20.79
 3

2+04.25-81.101.49
 5.63
 5.27
 20.36

101.79 5.33
 3.85
 21.28
 3

TP 4.17 107.12
 12.03

107.10

102.95 11.73

+71.16 104.01 12.65
 10.62

104.31 10.68
 21.05
 3

+20 111.75 4.29
 3.29
 21.00
 20.86
 3
 112.05 3.99
 3.06
 21.19
 3

+44.9-06.106.02
 10.02
 11.12

106.32 out

+38.08 106.54 out

106.84 9.10
 8.63
 20.67

0+0 - 17.14
 Chatsworth 110.78 5.26
 5.31 on Pav 112.06 3.98

TP 4.66 116.04 10.68 111.38 1+0.5 109.07
 BM 5.27 123.66 116.79 116.04

6.97
 7.14
 20.17
 20.17
 116.04

109.87 6.67
 6.18
 20.57
 3

Paving Grader Hwy + SEly Alley
 in Point Loma Center
 From Pointsettia Dr. to Hwy Alley

LT. NW.

RT. SE.

+22.28 - CB 844 10638 $\frac{0.74}{2.51}$ 106.68 $\frac{0.84}{2.20}$
 F1.77 3

INDEXED

N.K.

AUG 2 1949

1+04.97 104.65 $\frac{2.47}{2.70}$ 104.95 $\frac{2.19}{2.99}$
 F2.23 3 F0.82

+74.64 102.32 $\frac{4.80}{6.49}$ 102.62 $\frac{4.50}{5.51}$
 F1.59 3 F1.01 3

+47.32 99.99 $\frac{7.13}{7.84}$ 100.29 $\frac{6.83}{7.15}$
 F0.51 3 F0.32 3

+20 - Brk 97.66 $\frac{9.46}{9.64}$ 97.96 $\frac{9.16}{8.49}$
 F0.12 3 F0.57 3

0 + 0 - Fly Pointsettia 95.76 $\frac{11.36}{11.29}$ - Pav 96.52 $\frac{10.69}{10.55}$ 07Br

10718A Bit Ford

1+43.05 - FC 106.02 $\frac{1.10}{2.20}$ 106.02 1.10
 F1.10 3

+37.85 " 3 106.60 $\frac{0.52}{1.58}$ 106.60 0.52
 F1.16 3

+32.66 " 2 106.85 $\frac{0.27}{1.20}$ 106.85 0.27
 F1.43 3

1+27.97 " 1 106.80 $\frac{0.32}{2.04}$ 106.80 0.32
 F1.71 3

10712

Electric Ave. Water Meter Grader
Midway St. to Forward

West

INDEXED

AUG ^{W.K.} 2 1949

Foot:

3+28.5 (E)

+155 (W)

2+06 (W)

+863 (E)

+76 (E)

1+37.15 = BCR

+862 (W)

+38.82 = BCR

+02 (E)

0+0 = 17 1/2 Midway
07 East

June 10-49

H. Sisson
Garber
Cota
Chavez

60

Curb Grade

87.31

86.74

86.47

86.33

86.06

86.00

85.65

85.52

85.02

85.00

88900

88700

88000

5+75.57

89.00

4+77 (D)

88.33

0.0000

4+39 (D)

88.01

3+86.5 (E)

87.71

Emerald St Grader
Cass St to Dower St.

North Curb Grade
on property

South Curb Grade
on property

June 20-49
S. 5507
Garber
Cota
Chavez

No 31562 Hater. Plan BM
N.W. Diamond & Dwyer
Should not check Curb at Emerald & Cass
Stations. Hater Emerald & Cass 0.25' low
Stakes off side of Back

62

+40	41.70	48 41.70 46.7	41.08	54 41.08 46.0	41.70 4.19	41.08	4.81
2+0	41.25	52 41.25 40.2	40.60	59 40.60 46.0	41.25 4.64	40.60	5.29
+60	40.80	57 40.80 40.2	40.12	63 40.12 40.1	40.80 5.09	40.12	5.77
1+20	40.35	61 40.35 40.2	39.64	68 39.64 40.2	40.35 5.84	39.64	6.25
+80	39.90	66 39.90 40.0	39.16	73 39.16 40.0	39.90 5.99 in Dine	39.16	6.73
+60	39.45	70 39.45 40.0	38.68	78 38.68 40.0 5.50 in Dine	39.45 6.22 6.30 in Dine No 14 L. So. 14	38.68	7.21
0+0 = East Side Curb	39.00	74 39.00 40.0	38.20	82 38.20 40.0 8.21 in Dine	39.00 6.87 6.84 in Dine	38.20	7.69
BM	38.45	46.46	38.01	89 38.01 40.0 Emerald Cass	BM 7.88 15.89 Gut	38.01	8.99 Emerald Cass

INDEXED

AUG 2 1949
N.K.

-0.1125

Gut Score

	H Prop	S Prop	NC6	Sc6	S6uf	S6b	
+10 = F.V.C.	44.31 $\frac{2.1}{7.1}$ 51.0	43.81 $\frac{2.6}{2.3}$ C0.3	44.31 1.58	43.64 7.52✓	43.14 8.02✓	43.81	2.07✓
+20	43.93 $\frac{2.5}{1.1}$ 51.1	43.43 $\frac{3.0}{2.7}$ C0.3	43.93 1.96✓	43.26 7.90✓	42.76 8.40✓	43.43	2.46✓
+10	43.59 $\frac{2.9}{3.2}$ C0.7	43.08 $\frac{3.1}{3.1}$ C0.3	43.59 2.30✓	42.92 8.24✓	42.42 8.74✓	43.08	2.81✓
+20	43.39 $\frac{3.3}{3.3}$ C0.7	42.78 $\frac{3.7}{3.4}$ C0.3	43.39 2.80✓	42.62 8.54✓	42.12 9.04✓	42.78	3.11✓
+10 = P.V.C.	43.05 $\frac{3.4}{2.7}$ C0.7	42.53 $\frac{3.9}{3.8}$ C0.1	43.05 2.84✓	42.38 8.78✓	41.87 9.29✓	42.53	3.37✓
3+20	42.60 $\frac{3.9}{3.8}$ C0.9	42.04 $\frac{4.1}{4.3}$ C0.1	42.60 3.29✓			42.04	3.85✓
2+20	42.15 $\frac{4.3}{3.8}$ C0.8 46.46	41.56 $\frac{4.9}{4.9}$ C0.0	42.15 3.74✓			41.56	4.53✓
					45.89		

North

South

NCS

Gut

Gut

SCB

East Line Daves	4.60	9.7	45.50	10.3 9.3 0.9
-----------------	------	-----	-------	--------------------

4+98.97 = W/Daves	45.45	10.3	out	45.00	10.7 9.4 0.3
-------------------	-------	------	-----	-------	--------------------

7P	9.78	55.72	0.52	45.94	1.7 0.6 0.1
4+90 = C&B.C.	45.30	1.2 0.5 0.7	0.7	44.80	0.11

45.30
0.59

44.80

1.09

46.16

45.89

Dorner St Grader
Emerald St to Diamond St.

Curb Staker
offset 4' back of
Face of Curb

	West	East	W Curb	Gut	Gut	East Cb
14893	0.26	0.26	48.25	47.70	48.20	48.85
745 - N.L. Alley	48.25 7.5 7.1 co.4	48.75 7.0 6.4 co.6	48.45 5.88 0.54 5.30 4.22 co.58	47.58	48.08	48.85 4.98 4.03 co.63 48.95 4.88 4.78 co.78
1+3493 = 2						
1+25 = S.L. Alley	17.75 8.0 7.8 co.2	18.25 7.5 7.6 co.9	17.95 5.88 6.05 co.17	47.08	47.58	48.45 4.98 4.78 co.78
1+20.93			47.68	47.01	47.51	48.18 5.65 5.26 co.50
* 48866	W.K. AUG 2 1949 8.6 8.4 co.2	47.60 8.1 7.9 co.2	47.10 6.70			47.60 8.23
15233	0.199	0.179	46.45	46.45 7.38		46.95 8.88 8.93 co.45
416 - C6EC	45.80 9.9 6.5 co.4	46.30 9.4 8.2 co.2	45.80 8.03	45.13	45.63	46.30 7.53 6.50 co.93
570 - N.L. Emerald	45.63 10.1 out	46.00 9.7 8.5 co.2				
	55.72		BM	1.55	55.83	52.38 N.W. 100, Diamond + Dorner

Paving Grader Alley Block 324 Road + Delay
 Hdd. 29th St. to 30th St, between
 Franklin & Ocean View.

June 21-49 No. 31401
 75500 Garber
 Coto Chavez
 Cross Sec. #1781-41

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W.K.

AUG 2 1949

	North	South		North	South
110	97.23 8.01 8.76 8.95 1.5 Nail Fence	97.53 7.71 6.28 6.23 1.5 Nail Garage	+80 = P.C.	98.75 6.03 4.32 4.66 0.5 Nail Fence	99.05 5.73 4.57 4.23 3.5 Nail
			+40	98.53 6.25 4.97 0.5 Nail	98.83 3.93 2.59 1.36 3.5 Nail
+10 = Exc	97.01 8.23 5.58 2.55 3	97.31 7.93 5.19 5.74 1.55	TP	104.78 6.93 6.88 6.75 0.2 Nail	99.12 6.19 4.93 4.24 1.5
TP	6.91	7.04	3+0	98.31 6.93 6.75 0.2 Nail	98.61 6.19 4.93 4.24 1.5
+50	100.60 4.27 4.63 ca. 1.4	96.23 8.44 4.62 ca. 8.1			
+40	100.87 5.09 4.74 ca. 2.8	96.80 8.57 4.72 ca. 8.5		97.10 8.27 4.50 ca. 7.7 2.5 Nail Fence	
+30	100.14 5.23 4.77 ca. 4.6	96.62 8.75 4.77 ca. 9.8		+60	98.10 7.14 7.10 7.06 0.8 Nail
+20	99.91 5.15 4.96 ca. 5.5	96.40 8.97 8.66 ca. 6.7			98.40 6.84 7.23 7.03 0.25 Nail Fence
+10	99.60 4.78 5.48 5.98 Fence	96.15 9.22 5.70 ca. 5.2		2+20	97.88 7.36 7.98 7.62 7.1 Nail Garage
0 + 0 = EL 29th	99.41 5.91 5.62 Fence	95.90 9.47			98.18 7.06 8.77 7.91 3.5 Nail
		cb - Pav 9.17 96.62 8.58 8.75 8.88 ca. 1.7 cb		+80	97.66 7.58 8.14 8.56 0.55 Nail
		cb Pav. 96.52 8.85 8.85 8.85 20.2 R			97.96 7.28 8.08 8.28 0.91
0 - 10	94.96 10.41	95.60		1+40	97.44 7.80 8.14 8.00 1.05 Nail
BM	792	105.57	97.15		97.74 7.50 7.97 8.03 0.65 Nail
			N.E.R.D. Ocean View + 29th St		105.24X

H

S

Norths

Souths

		104.78 8985 1193 1072 6173 6164					
+15 =	① on H.						
5+0		95.76 3.91 2.10 2.81 1.15 Nail Fence	96.06 3.61 2.20 2.91 2.1 2				
+80		96.76 2.91 3.13 FO 22 13' Fence	97.06 2.61 1.99 2.82 1.7 on Appro	6+20 = FL 30 ¹ / ₂	86.06 4.22 3.62 4.22 on Fence	86.16 1.12 1.88 2.22 1.7 on Nail	
				7P	2.81	90.28	13.20
				+80 = FV	89.70 9.97 10.27 FO 30 3	90.00	96.7 8.39 6.12 6.80 Nail House
+60		97.57 2.10 1.73 2.32 13' Nail	97.87 1.80 1.59 1.51 2				
+40		98.17 1.50 0.97 0.53 2.5 on Cone Appro	98.47 1.20 0.26 0.46 0.4 Nail	+60	91.52 8.15 6.51 1.8 Nail Fence	91.82	7.85 6.16 6.13 3
7P	1.01	99.67	6.12	98.66	5.44 0.74 FO 20 3	92.45	6.34 1.31 2.33 3
+20		98.57 6.21 5.34 0.8 Nail	98.87 5.91 4.72 0.5 Nail	+40			
+0		98.76 1.02 1.36 1.6 0.75 Nail	99.06 5.72 2.98 0.74 2	5+20	94.55 5.12 5.02 0.1	94.85	1.82 2.06 0.76 3
		104.78			99.67		

Carb Grader Milbur St.
 Cross to East of Dances

Paranthases
 (81.68) = SubGrade

Gutter
 Grader
 Aug. 9-49
 BM
 Rough Grader 9.245

June 30-49
 7.5.5507
 Garber
 Costa
 Chavez

70

SE corner
 Carb
 South 30

	North 60	South 60
+90	85.42 ^{5.23}	84.56 ^{6.09}

INDEXED

N.K.

AUG 2 1949

+50	84.84 ^{5.81}	84.03 ^{6.63}
-----	-----------------------	-----------------------

+10	84.26 ^{6.39}	83.49 ^{7.16}
-----	-----------------------	-----------------------

+70	83.68 ^{6.97}	82.96 ^{7.69}
-----	-----------------------	-----------------------

+30 Bk	82.25 ^{9.24}	82.10 ^{8.41}	82.42 ^{9.67}
--------	-----------------------	-----------------------	-----------------------

+06 = C6 EC	82.75 ^{9.45}	82.10 ^{8.82}	82.10 ^{9.99}
-------------	-----------------------	-----------------------	-----------------------

BM & SubGrade	8.75	90.57	81.82
---------------	------	-------	-------

+0 = F/L Carb	82.09 ^{9.58}	82.69 ^{7.96}	82.05 ^{10.06}
---------------	-----------------------	-----------------------	------------------------

BM	880	90.65	81.82 ^{10.46}
----	-----	-------	------------------------

+87.90 = C6 EC	91.50 ^{5.23}	90.78 (90.32) ^{0.81}	87.99 ^{0.22}	90.49 ^{1.60}
----------------	-----------------------	-------------------------------	-----------------------	-----------------------

+53.95	90.44 ^{6.49}			89.41 ^{7.52}
--------	-----------------------	--	--	-----------------------

TP	7.56 ^{1.38}	96.93	1.28	87.07
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+20 = F/L C	89.37	88.62 (88.21) ^{2.92}	87.83 ^{2.36}	88.33 ^{3.76}
-------------	-------	-------------------------------	-----------------------	-----------------------

+40	88.81 ^{1.84}	88.06 (87.64) ^{3.53}	87.26 ^{2.93}	87.76 ^{4.33}
-----	-----------------------	-------------------------------	-----------------------	-----------------------

+80	88.32 ^{3.33}	87.57 (87.18) ^{4.02}	86.78 ^{3.41}	87.38 ^{4.81}
-----	-----------------------	-------------------------------	-----------------------	-----------------------

+60	87.91 ^{2.74}	87.16 (86.75) ^{4.43}	86.38 ^{3.82}	86.88 ^{5.21}
-----	-----------------------	-------------------------------	-----------------------	-----------------------

+40	87.58 ^{3.07}	86.83 (86.43) ^{4.76}	86.07 ^{4.14}	86.57 ^{5.52}
-----	-----------------------	-------------------------------	-----------------------	-----------------------

+20 = P/L	87.29 ^{3.36}	86.54 (86.16) ^{5.05}	85.81 ^{4.41}	86.31 ^{5.72}
-----------	-----------------------	-------------------------------	-----------------------	-----------------------

+70	86.58 ^{4.07}			85.64 ^{5.01}
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+30	86.00 ^{4.65}			85.10 ^{5.55}
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Curb Grader Wilbur St
East of Danner

Wilbur + Danner Int. elevation

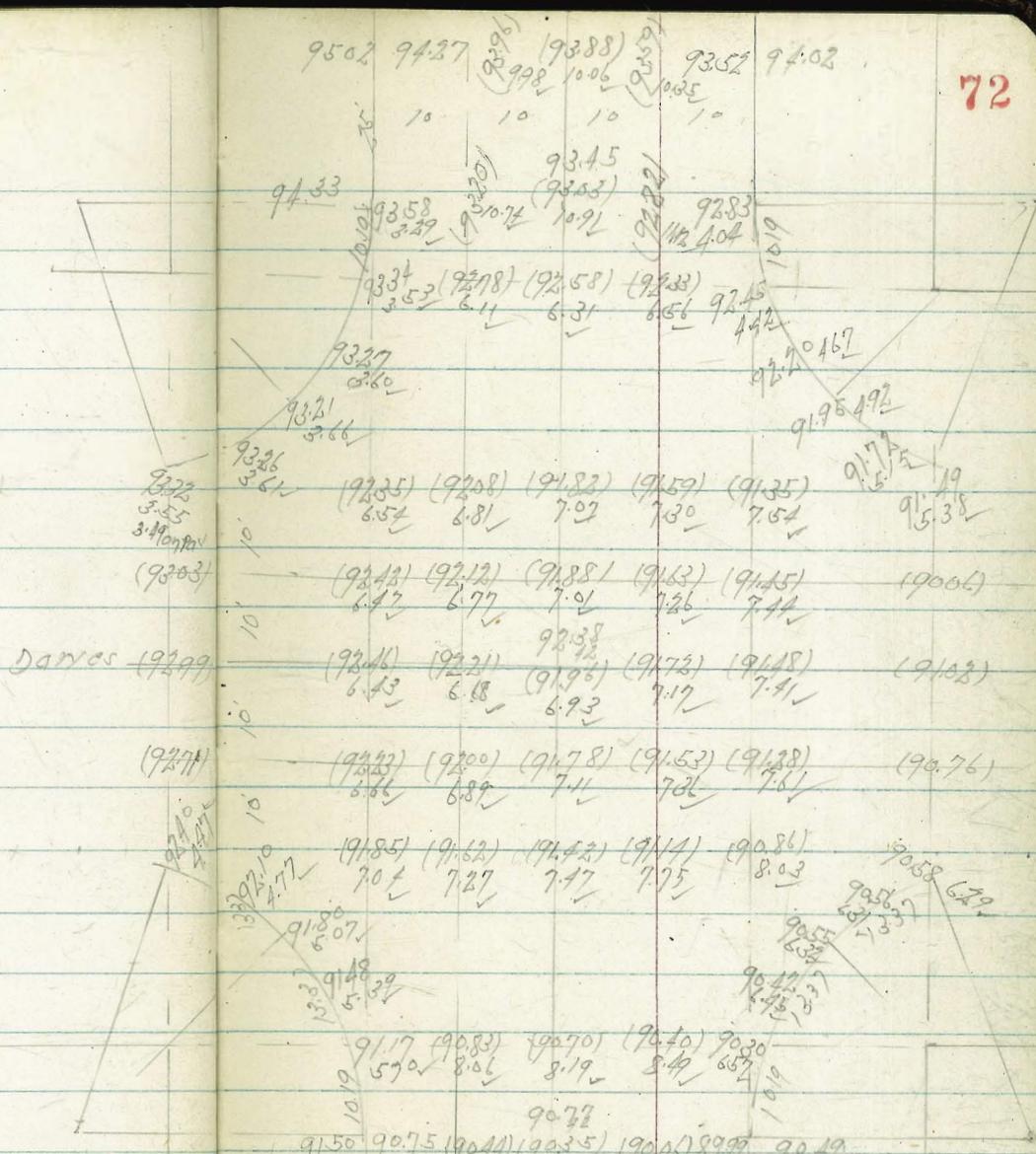
71

	Northcb		S. Cb.		BM Restake 020	96.71	96.51	SFCor Porch
3+0.5	102.71	5.35	101.71	6.35	SE Return Wilbur 8.47 3.38	93.00 8.80 3.71	92.60 9.20 4.11	92.205 9.80 4.51 4.54 oncb
+60	101.43	6.63	100.43	7.63	N E Return Wilbur 7.47	94.09 7.71	93.96 7.81	94.07 7.73
TP 2+15	791 100.15	108.06 1.65 1.65	100.15	2.65		101.80		
+70	98.87	2.93	97.87	3.93	N W Return Wilbur 5.43 5.21	91.90 5.03 4.81	92.43 4.50 4.28	92.97 3.96 3.07 3.88 3.74 oncb
1+25	97.59	4.21	96.59	5.21	S W Return Wilbur 5.40 6.28	90.19 5.40 5.91 91.93	90.80 6.13 5.91 91.05	91.08 5.88 5.32 5.32 5.63 5.63 5.67 oncb
+80	96.31	5.49	95.31	6.49		5		
+35	95.02	6.78	94.02	7.78	4+14.71 Wilbur 5.40 4.96 oncb	105.75 2.15 oncb	104.75	3.31 3.11
+10 = Cb FC	94.33	7.42	93.33	8.42		490 105.13	2.93	104.13 8.93
0+0 = E L Danner						2+50 103.99	4.07	102.99 5.07
BM	529	101.80	96.51		Cb Wilbur SFCor Porch Wilbur + Danner	108.06		

Wilbur St + Darrow St.

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Parcel Lines = Sub Grade



B.M. Intersection 238 98.89
 B.M. Paving 7.43 103.94
 B.M. gutter 238 96.87

96.51
 96.51
 96.51
 Church
 X 52130
 Wilbur
 + Darrow

Wilbur

Wilbur St. SubGrade
 Cant St to East of Darrow

	4' Gut	1 1/4'	2'	5 1/4'	5' Gut
1+87.90 = cb EC	90.75	90.44 0.75✓	90.35 0.84✓	90.06 1.13✓	89.99
4+20 = FVC	88.62	88.30 2.89✓	88.21 2.98✓	87.91 3.28✓	87.82
4+0	88.06	87.74 3.45✓	87.64 3.55✓	87.34 3.85✓	87.26
+80	87.57	87.25 3.94✓	87.16 4.03✓	86.86 4.33✓	86.78
+60	87.16	86.75 4.42✓	86.75 4.44✓	86.46 4.73✓	86.38
+40	86.82	86.52 4.67✓	86.43 4.76✓	86.14 5.05✓	86.07
2+80 = PVC	86.54	86.34 4.85✓	86.16 5.03✓	85.87 5.32✓	85.81
+30 = Brk	82.35	82.12 9.07✓	82.11 9.08	81.91 9.38	81.92
+06 = cb EC	82.13	81.75 9.44✓	81.68 9.51✓	81.50 9.69✓	81.60
0+0 = F.L. Cant					
817	9.27	91.19	81.82	JFA Wilbur Cant	

	4' Gut	1 1/4'	2'	5 1/4'	5' Gut
4+14.71 = Pav	105.21				104.42
+90 = Brk	104.39	(104.22) 3.37✓	(104.18) 3.41✓	(103.85) 3.74✓	103.64
+70		(103.69) 3.90✓	(103.54) 4.05✓	(103.32) 4.36✓	
TP	4.99	107.59	103.4	102.60	
3+30 = Gd Brk	103.28	(102.97) 0.97✓	(102.89) 1.05✓	(102.60) 1.34✓	102.53
		103.94	T. Brk Ford		
0+35 = Brk	94.27				93.52
0+06 cb EC	93.58				93.83
0+0 = F.L. Darrow					

Calle Pintoresca Grader
 Calle Serena to End Curve East of
 Calle Trepadora

South Line Stationing

Cross Sec 4706-33

Hug 30-49
 H. Siver
 Garber
 Cota
 Charles W.D. 20544

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JUN 7 1950

Stationing	Stationing	Stationing	Stationing
+50	288.75 6.49 F1.00 5.11 of 1/2	289.25 5.99 2.96 2.09 5.5 of 1/2	5+10.54 BC/1/2 296.83 6.08 6.30 F0.22
2+0 = BC Jo	287.20 8.01 2.07 F1.03	287.70 7.54 1.86 0.78	+60.54 295.28 7.63 8.16 F0.83
+50	285.53 9.71 10.63 F0.92	286.03 9.21 6.01	4+10.54 = BC N 293.72 9.18 4.61 F2.72
1+0	283.85 11.39 12.50 F1.11	284.35 10.89 7.10 0.77	TP 11.92 302.91 4.25 290.99
+50	282.18 13.06 14.40 F1.34	282.68 12.56 2.68 1.5	+73.70 292.58 2.16 8.71 F2.51
0+0 = F.C. Calle Serena	280.50 14.71 16.67 F1.83 5.11 of 1/2	281.00 14.54 9.34 7.00 4.5 of 1/2	+36.85 291.44 3.80 7.34 F3.74
TP	6.00 295.24 10.63	289.24	2+0 = FC Jo 290.30 4.91 8.22 F3.28
BM 114	299.87	298.73	290.80 2.44 2.77 1.67 5.5 of 1/2
		178637	295.24

Paving Grader Alley Block 178
Pacific Beach From Olney to Noyes
Between Emerald + Felspar

BM 8.87 294.04
0.28' R
17.5
3+0
on South

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JUN 7 1950

BM 4.42 298.49
0.27' H/L
25.5
6+51.91 E

+51.91 E.C. 300.48
2.43
4.27
F1.84
300.98
1.23
3.70
F1.77

6+16.56 299.57
3.34
4.58
F1.21
300.07
2.84
2.80
20.04

+81.22 298.66
4.35
4.56
F0.41
299.16
3.75
2.73
1.62

5+45.88 297.74
5.17
5.67
F0.50
298.24
4.67
3.78
1.88
5' on S/L

302.91

	S		N
199.20 - EL Hoyes	70.63	$\begin{array}{r} 3.06 \\ 3.80 \\ \hline 70.74 \\ 3 \end{array}$	$\begin{array}{r} 2.76 \\ 2.97 \\ \hline 70.93 \\ 3 \end{array}$
+80	70.11	$\begin{array}{r} 3.58 \\ 3.80 \\ \hline 70.33 \\ 0.50 \times 0.0207 \\ \hline 70.11 \\ \text{Hall} \end{array}$	$\begin{array}{r} 3.28 \\ 3.67 \\ \hline 70.41 \\ 3 \end{array}$
+60	69.74	$\begin{array}{r} 3.95 \\ 3.88 \\ \hline 69.97 \\ 0.56 \times 0.0207 \\ \hline 69.74 \\ \text{Hall} \end{array}$	$\begin{array}{r} 3.65 \\ 4.67 \\ \hline 70.04 \\ 3 \end{array}$
+40	69.48	$\begin{array}{r} 1.21 \\ 5.90 \\ \hline 69.69 \\ 3 \end{array}$	$\begin{array}{r} 3.91 \\ 5.30 \\ \hline 69.78 \\ 3 \end{array}$
4+20 - PXC	69.34	$\begin{array}{r} 4.35 \\ 6.68 \\ \hline 69.34 \\ 2.33 \\ 3 \end{array}$	$\begin{array}{r} 4.05 \\ 5.60 \\ \hline 69.64 \\ 3 \end{array}$
3+80	69.18	$\begin{array}{r} 4.57 \\ 7.00 \\ \hline 69.18 \\ 2.41 \\ 3 \end{array}$	$\begin{array}{r} 4.21 \\ 6.25 \\ \hline 69.48 \\ 2.04 \\ 3 \end{array}$

7269

Paving Grade East & West Hiller Block 62
 Resubdivisions of Blks. 39 & 56 Normal Hts
 From Felton to 34th St. South of Adams

INDEXED

JUN 7 1950

Cross Sections #197-1

N.O. 62184

Sept 8-49

H.S. Sisson

Garber

Cota

Chavez

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+332-VL Hiller	390.45	4.50 4.76 20.34 1 Nail Pay	390.24	4.76 4.28 20.34 2
1410	390.19	4.76 4.36 20.40 1 Nail Pay	390.01	4.94 4.62 20.32 2
+90-P.C.	389.73	5.22 4.82 20.62 1 Nail Pay	389.59	5.36 4.82 20.54 2
+60	389.07	5.88 4.88 21.00 0.00 0781d9	389.02	5.92 5.24 20.62 2
+30	388.40	6.55 5.55 21.00 0.00 0781d9	388.46	6.49 5.53 20.96 1
0+0 = EL Felton	387.74	7.21 6.21 21.00 0781d9	387.89	7.06 6.70 20.86 2
TP	426 394.95	4.36	390.69	5.16 5.16 20.86 1
BM	5.80 395.05		389.25	5.16 5.16 20.86 1

+814-VL Hiller	389.40	7.20 5.32 21.88 0.20 Top Conc Nail	389.43	7.17 7.22 20.05 1
+602	390.33	6.27 5.03 21.27 2	390.24	6.36 4.98 21.38 0.00 x Top Conc Nail
+402	390.95	5.65 4.89 20.96 2	390.78	5.82 5.55 20.27 2
+202-P.C.	391.08	5.52 4.98 20.54 2	390.88	5.72 5.40 20.52 0.00 x Top Conc Nail
+812	390.82	5.28 4.86 20.56 2	390.61	5.99 5.56 20.43 2
TP	5.22 396.60		357 391.38	
1+482 = EL Hiller	390.56	4.37 4.30 20.82 0.3817 Hiller	390.34	4.61 4.56 20.76 0.00 Hiller Stud

39495

Paving Grades Alley Block II
 LXX Kimball Sub. From 24th St to 25th St
 Between J St & K St

INDEXED
 W.K.
 JUN 7 1950

Cross Sections 4737-39
 W.O. 8/1835

Sept. 12-49
 F.S. 5000
 Garber
 Cota

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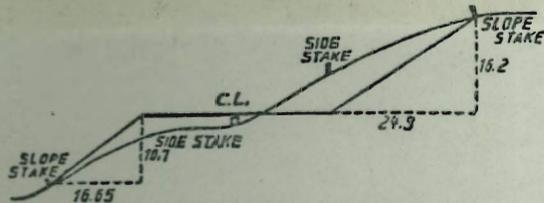
2+0 ✓	87.13	3.97 2.38 1.59 4.22 1.25 2.2	86.83	4.24 3.95 3.82 4.53 1.63 1.90
4+0 ✓	87.00	4.10 2.50 3.75 2.63 2.16	86.70	4.40 3.88 3.52 4.05 2.55
1+20 ✓	86.87	4.22 2.78 1.75 3.58 2.29 2.7	86.57	4.53 4.07 4.18 3.68 2.5
TP	457 91.10	0	430 86.43	
+80 ✓	86.74	3.99 2.70 4.06 2.31 2.31	86.44	4.29 3.78 4.17 4.31 2.17
+40 = Bk	86.61	4.12 3.63 2.10 4.14 3.08 2.1	86.31	4.42 4.92 4.50 4.13 4.93 4.09
0+0 = F.L. 24 th	86.59	4.14 3.43 0.73	85.87	4.86 4.83 4.03 2.70
BM	1+20 90.73		99.43	N.E. BP K + 24 th St

+40 ✓	87.90	3.44 2.85 1.87 3.45 1.88 2.73	87.60	3.76 3.18 2.56 3.75 3.15 2.59
4+0	87.77	3.57 1.85 1.82 3.58 2.55 2.53	87.47	3.87 4.60 4.73 3.88 4.58 4.70
+60	87.64	3.70 2.97 2.73 3.71 2.50 3.20	87.34	4.00 4.59 4.57 4.88 4.58 4.57
TP	555 91.34		531 85.79	
+80	87.48	3.83 3.92 3.84 3.92 2.08	87.31	4.13 4.14 4.21 3.97 3.97 3.00
2+40	87.26	3.84 2.81 4.07	86.96	4.10 4.74 4.39 4.78 4.57

Paving Grades Check
 Hilley Block 93 E.H. Morsier Sub
 From 30th to 31st Bet B + C St. 80

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 JUN 7 1950

6+006 - W.L. 30th	88.97 3.77 3.16 80.61 30th Sub	87.86 4.88 4.90 F.02 30th Sub	+20	215.50 2.37 1.82 0.40	
+80	88.50 4.34 1.07 0.17 30th Sub	88.05 4.69 4.84 6.05 0.01 Nail Hole	+20	215.09 2.63 2.17 0.44	214.79 2.92 1.98 0.95
+60 = Brk	88.39 4.45 0.68 0.17 30th Sub	87.99 4.75 4.65 0.10 0.12 Nail Hole	+60 = Service Lot 1 of 11		208.43 9.39 1.11 0.18
5+20 ✓	88.16 4.58 4.45 0.25 30th Sub	87.86 4.88 4.88 0.00 0.86 Nail Hole	0+0 = F.L. 30th		
TP	485 92.74 3.31 1.23 2.68 3.45 Nail Hole	87.89 3.61 2.73 0.12 7.0 Sub Hole			
4+80 ✓	88.03 3.45 Nail Hole	87.73 3.61 2.73 0.12 7.0 Sub Hole	BM 932	217.72	208.40 5.40 0.07 2.08 208.40 5.40 0.07 2.08
91.34			BM		194.96 5.40 0.07 2.08



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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