

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
1	1.00	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	1
2	2.00	2.10	2.20	2.30	2.40	2.50	2.60	2.70	2.80	2.90	2
3	3.00	3.10	3.20	3.30	3.40	3.50	3.60	3.70	3.80	3.90	3
4	4.00	4.10	4.20	4.30	4.40	4.50	4.60	4.70	4.80	4.90	4
5	5.00	5.10	5.20	5.30	5.40	5.50	5.60	5.70	5.80	5.90	5
6	6.00	6.10	6.20	6.30	6.40	6.50	6.60	6.70	6.80	6.90	6
7	7.00	7.10	7.20	7.30	7.40	7.50	7.60	7.70	7.80	7.90	7
8	8.00	8.10	8.20	8.30	8.40	8.50	8.60	8.70	8.80	8.90	8
9	9.00	9.10	9.20	9.30	9.40	9.50	9.60	9.70	9.80	9.90	9
10	10.00	10.10	10.20	10.30	10.40	10.50	10.60	10.70	10.80	10.90	10
11	11.00	11.10	11.20	11.30	11.40	11.50	11.60	11.70	11.80	11.90	11
12	12.00	12.10	12.20	12.30	12.40	12.50	12.60	12.70	12.80	12.90	12
13	13.00	13.10	13.20	13.30	13.40	13.50	13.60	13.70	13.80	13.90	13
14	14.00	14.10	14.20	14.30	14.40	14.50	14.60	14.70	14.80	14.90	14
15	15.00	15.10	15.20	15.30	15.40	15.50	15.60	15.70	15.80	15.90	15
16	16.00	16.10	16.20	16.30	16.40	16.50	16.60	16.70	16.80	16.90	16
17	17.00	17.10	17.20	17.30	17.40	17.50	17.60	17.70	17.80	17.90	17
18	18.00	18.10	18.20	18.30	18.40	18.50	18.60	18.70	18.80	18.90	18
19	19.00	19.10	19.20	19.30	19.40	19.50	19.60	19.70	19.80	19.90	19
20	20.00	20.10	20.20	20.30	20.40	20.50	20.60	20.70	20.80	20.90	20
21	21.00	21.10	21.20	21.30	21.40	21.50	21.60	21.70	21.80	21.90	21
22	22.00	22.10	22.20	22.30	22.40	22.50	22.60	22.70	22.80	22.90	22
23	23.00	23.10	23.20	23.30	23.40	23.50	23.60	23.70	23.80	23.90	23
24	24.00	24.10	24.20	24.30	24.40	24.50	24.60	24.70	24.80	24.90	24
25	25.00	25.10	25.20	25.30	25.40	25.50	25.60	25.70	25.80	25.90	25
26	26.00	26.10	26.20	26.30	26.40	26.50	26.60	26.70	26.80	26.90	26
27	27.00	27.10	27.20	27.30	27.40	27.50	27.60	27.70	27.80	27.90	27
28	28.00	28.10	28.20	28.30	28.40	28.50	28.60	28.70	28.80	28.90	28
29	29.00	29.10	29.20	29.30	29.40	29.50	29.60	29.70	29.80	29.90	29
30	30.00	30.10	30.20	30.30	30.40	30.50	30.60	30.70	30.80	30.90	30
31	31.00	31.10	31.20	31.30	31.40	31.50	31.60	31.70	31.80	31.90	31
32	32.00	32.10	32.20	32.30	32.40	32.50	32.60	32.70	32.80	32.90	32
33	33.00	33.10	33.20	33.30	33.40	33.50	33.60	33.70	33.80	33.90	33
34	34.00	34.10	34.20	34.30	34.40	34.50	34.60	34.70	34.80	34.90	34
35	35.00	35.10	35.20	35.30	35.40	35.50	35.60	35.70	35.80	35.90	35
36	36.00	36.10	36.20	36.30	36.40	36.50	36.60	36.70	36.80	36.90	36
37	37.00	37.10	37.20	37.30	37.40	37.50	37.60	37.70	37.80	37.90	37
38	38.00	38.10	38.20	38.30	38.40	38.50	38.60	38.70	38.80	38.90	38
39	39.00	39.10	39.20	39.30	39.40	39.50	39.60	39.70	39.80	39.90	39
40	40.00	40.10	40.20	40.30	40.40	40.50	40.60	40.70	40.80	40.90	40
41	41.00	41.10	41.20	41.30	41.40	41.50	41.60	41.70	41.80	41.90	41
42	42.00	42.10	42.20	42.30	42.40	42.50	42.60	42.70	42.80	42.90	42
43	43.00	43.10	43.20	43.30	43.40	43.50	43.60	43.70	43.80	43.90	43
44	44.00	44.10	44.20	44.30	44.40	44.50	44.60	44.70	44.80	44.90	44
45	45.00	45.10	45.20	45.30	45.40	45.50	45.60	45.70	45.80	45.90	45
46	46.00	46.10	46.20	46.30	46.40	46.50	46.60	46.70	46.80	46.90	46
47	47.00	47.10	47.20	47.30	47.40	47.50	47.60	47.70	47.80	47.90	47
48	48.00	48.10	48.20	48.30	48.40	48.50	48.60	48.70	48.80	48.90	48
49	49.00	49.10	49.20	49.30	49.40	49.50	49.60	49.70	49.80	49.90	49
50	50.00	50.10	50.20	50.30	50.40	50.50	50.60	50.70	50.80	50.90	50

Distance of slope stake from side or shoulder stake for any width roadway, slope 1 to 1. If ground is nearly level, the cut or fill at side stake is located by the double entry method in left column and top row. The number in body of table in same row and column gives distance from side stake to slope stake. If ground is not level estimate the difference in elevation between the side stake and slope stake, lower target by this amount if cut, elevate if fill. Add this amount to cut or fill and find distance in table. Set up rod at this point, and line of sight should cut target. If it does not make the slight adjustment necessary.

MICROFILMED

APR 14 1965

0	0
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
10	10
11	11
12	12
13	13
14	14
15	15
16	16
17	17
18	18
19	19
20	20
21	21
22	22
23	23
24	24
25	25
26	26
27	27
28	28
29	29
30	30
31	31
32	32
33	33
34	34
35	35
36	36
37	37
38	38
39	39
40	40
41	41
42	42
43	43
44	44
45	45
46	46
47	47
48	48
49	49
50	50

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

DIRECTIONS FOR USE OF TABLES

TABLE No. XIV

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

IMPROVED TABLES
AND
INFORMATION

TABLE No. VIII

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

TABLE XIII—CORRECTIONS FOR TANGENTS AND EXTERNALS

These corrections are to be added to the approximate values, found by dividing the tangent, or external, for a 1° curve (Table VIII) by the degree of curve, in order to obtain the true tangents, or externals. Intermediate values may be obtained by interpolation.

FOR TANGENTS ADD

Central Angle	DEGREE OF CURVE													
	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°
10°	.03	.06	.09	.13	.16	.19	.22	.25	.28	.31	.34	.38	.42	.46
15°	.04	.10	.14	.19	.24	.29	.34	.39	.45	.51	.55	.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	.042	.047	.053	.057	.061
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	.266	.353	.440	.528	.617	.707	.797	.887	.977	1.07	1.18	1.30
80°	.110	.220	.332	.445	.558	.671	.787	.903	1.02	1.13	1.25	1.38	1.50	1.62
85°	.128	.259	.391	.524	.657	.790	.926	1.06	1.20	1.34	1.47	1.62	1.76	1.91
90°	.149	.299	.450	.603	.756	.910	1.07	1.22	1.38	1.54	1.70	1.87	2.03	2.20
95°	.174	.350	.522	.706	.885	1.06	1.25	1.43	1.62	1.80	1.99	2.18	2.38	2.58
100°	.200	.401	.604	.809	1.01	1.22	1.43	1.64	1.85	2.06	2.28	2.50	2.73	2.96
110°	.268	.536	.806	1.08	1.35	1.63	1.91	2.20	2.48	2.76	3.05	3.35	3.66	3.96
120°	.360	.721	1.08	1.45	1.82	2.19	2.57	2.95	3.33	3.72	4.11	4.50	4.91	5.32

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" " " Everts to Fanuel	2
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Roberts
Clark
Zochhead
Aug. 6, 1950
W.O. 31568

Grade Stakes Hornblend St.

Dawes to Everett Contractors' misc.
7538L
[Tough] Gutter Grade

INDEXED
APR 27 1951

2710 28.77 6.25 28.04 6.98 6.0 C1.0

1760 28.07 27.38 7.64 6.8 C0.8

1410 27.37 26.72 8.30 7.7 C0.6

0+60 26.67 26.06 8.96 8.6 C0.4

0+10 EC 25.97 25.40 9.62 9.4 C0.2

0+0 Wk Pavd

I.T.P 9.26 35.02T 1.71 26.76 Pmt. SI Tack
TP 4.38 28.77 4.85 24.09 Fire plug SE
B.M. 1.09 28.94 27.85 SE BP Garnet & Cass

Florts 32.35
4+80 BC 2.67
1.5
C 1.2

4+60 32.27 2.75 1.5 C 1.3

4+10 31.57 3.45 2.3 C 1.2

3+60 30.87 4.15 2.8 C 1.3

3+10 30.17 4.85 4.0 C 0.9

2+60 29.47 5.55 4.5 C 1.1

LT RT
31.60
3.42
3.2
C0.2

31.34
3.68
3.5
C 0.2

30.68
4.34
3.8
C 0.5

30.02
5.00
4.2
C 0.8

29.36
5.66
4.5
C 1.2

28.70
6.32
5.2
C 1.1

LS 2001 N.E. Hornblend & Dawes
Cor. Hornblend & Cass

35.02T

INDEXED
APR 27 1951

Hornblend Cont'd

Evms to Fayuel

2539L

Butter Grades

Fayuel
5+00 BC 40.39
EHS 4.12
4.11
4+80E 40.22
4.29
16
C 2.7

FC 39.75
476 2
39.53
498
25
C 2.5

2+30

37.53
6.98
57
C 1.3

36.78
7.73
63
C 1.4

4+40

39.94
4.57
23
C 2.3

39.24
4.27
21
C 3.2

1+80

36.61
7.90
62
C 1.7

35.86
8.65
70
C 1.7

4+00

39.67
4.84
26
C 2.2

38.95
5.56
3.2
C 2.4

1+30

35.69
8.82
70
C 1.8

34.94
9.57
77
C 1.9

3+60

39.40
5.11
34
C 1.7

38.67
5.84
41
C 1.7

0+80

34.77
7.74
77
C 2.0

34.02
10.29
87
C 1.8

3+20

38.99
5.52
43
C 1.2

38.24
6.27
49
C 1.4

0+30

33.85
10.66
88
C 1.9

33.10
11.41
97
C 1.7

3+00

38.78
5.73
47
C 1.0

38.03
6.48
51
C 1.4

Evms
DHO EC

33.41
11.03
93
C 1.7

32.73
11.78
106
C 1.2

2+80

38.46
6.05
50
C 1.1

37.71
6.80
53
C 1.5

T.P. 10.64

44.51 X 115

33.87 SERP

44.51 X

Hornblend Cont'd
Fauvel to Graham
7539L

Gutter Grades

2+70
42.74
544
40
c1.4
42.22
6.16
54
C0.8

2+20
42.64
5.74
40
c1.7
41.74
6.44
50
C0.4

1+70
42.35
6.03
45
c1.5
41.66
6.73
63
C0.4

1+20
42.05
6.33
61
c0.9
41.38
7.00
61
C0.9

0+70
41.76
6.2
60
c1.3
41.10
7.28
60
C1.3

0+40
41.59
6.80
67
c0.8
40.93
7.45
67
C0.8

Fauvel
RC
Exit
0+0
41.41
40.58
7.80

T.P. 6.95 48.38T 308 41.43 NW 7ct Fauvel & Hornblend

LT
check
T.P.

Graham
4+90 BC
45.83
2.55
16
C1.0

4+50
44.95
3.43
24
C1.0

4+10
44.07
4.31
32
C1.1

3+90
43.73
4.65
32
C1.5

3+70
44.34
43.53
4.85
36
C1.3

3+20
43.5
43.23
5.15
39
C1.3

MINVERT
APP. 9-1-1978

6.28 47.10 = 47.09

0.21 48.17

3
Rt
Sept 21 FE 1978
Nail in Fence
SE of
Grub & Horn

45.33
3.05
30
Grd

44.37
4.01
34
C0.6

43.42
4.96
44
C0.6

43.00
5.38
41
C0.9

42.79
5.59
50
C0.6

42.50
5.88
53
C0.6

Aug 8, 1950

Hornblend Cont'd
Gresham to Haines
Better Grades
95402

INDEXED
APP 27 1951

RR 4

1+80
51.71
858
66
C 2.0

51.21
908
84
C 0.7

3+80
59.92
865
63
C 2.4

59.42
915
74
C 1.8

1+60
51.03
926
70
C 2.3

50.53
976
86
C 1.2

3+60 PK
59.17
940
70
C 2.4

58.67
990
76
C 2.3

1+40
50.45
984
81
C 1.7

49.95
1034
93
C 1.0

TR
9.57 68.57 A
57.51
3+20 2.78
0.2
C 2.6

129 57.00
57.01
328
14
C 1.9

1+20 PK
49.94
1031
86
C 1.7

49.48
1081
98
C 1.0

2+80
55.84
445
18
C 2.7

55.34
475
34
C 1.6

0+65
49.80
1149
96
C 1.9

49.30
1199
113
C 0.7

2+40
54.17
612
38
C 2.3

53.67
662
53
C 1.3

EC
0+10 Gresham
47.63
1266
101
C 2.6

47.13
1316
122
C 1.0

2+00 EVC
52.50
7.79
55
C 2.3

52.00
8.29
74
C 0.9

TBM 12.12 60.29 A

48.17

60.29 A

Hornblend Cont'd

Haines to Ingraham

5

check

INDEVEN

APP 27 1951

5.71

62.86 = 62.87

Haines & Hornblend
SW 7 Mon

2+60

60.72

786

67

C 1.2

60.19

839

72

C 1.2

60.90

2+10

768

61

C 1.6

60.38

820

75

C 0.7

61.09

1+60

749

59

C 1.6

60.56

802

80

GRD

61.27

1+10

731

57

C 1.6

60.75

783

74

C 0.4

61.45

0+60

713.

49

C 2.2

60.94

764

61

C 1.5

61.63

EC
D+H Haines

695

43

C 2.7

61.13

743

57

C 1.8

60.53

#+00

804

57

C 2.3

60.03

854

71

C 1.4

68.57 π 68.58 π

Hornblend Cont'd

Ingraham & Jewell
 (Golden Grades)

INDEXED
 Adm. gr.

check

655 60.16 = 60.16 Golden Grades

7541L

4+80 Ingraham

59.92
 6.79
59
 60.7

59.37
 7.34
31
 67.2

1+30

63.80
 5.17
1.0
 4.2

1+10

63.39
 5.58
15
 64.1

63.14
 5.83
58
 68.0

62.79
 6.18
57
 60.5

4+60

59.99
 6.72
54
 61.3

59.44
 7.27
31
 64.2

0+90 PIC

62.81
 6.16
20
 64.2

62.29
 6.68
47
 62.0

4+40

60.17
 6.54
54
 61.1

59.63
 7.08
29
 64.2

0+55

61.68
 7.29
48
 62.5

61.29
 7.68
53
 62.4

3+60

60.35
 6.36
47
 61.7

59.82
 6.89
37
 63.2

0+20

60.55
 8.42
32
 68.2

60.29
 8.68
8.8
 60.1

3+10

60.53
 6.18
47
 61.5

60.00
 6.71
48
 62.2

Ingraham
 0+10 BC

60.30
 8.67
32
 65.5

60.01
 8.96
8.8
 60.1

TP

5.19 66.71 X 7.06

61.52

TBM

8.81 68.97 X

60.16

Hornblend Cont'd

7

Horn. # Sewell
5W7ct

TRN

818

60.20 = 60.21

3+10	62.68 6.29 <u>3.0</u> C 3.3	61.13 7.84 <u>5.5</u> C 2.3
------	--------------------------------------	--------------------------------------

2+60	63.32 5.65 <u>1.2</u> C 4.5	62.57 6.40 <u>5.2</u> C 1.2
------	--------------------------------------	--------------------------------------

2+10 EVC	63.98 4.99 <u>0.3</u> C 4.7	63.23 5.74 <u>4.1</u> C 1.0
----------	--------------------------------------	--------------------------------------

Sewell 4+90 BC	60.38 8.00 <u>5.7</u> C 2.3
-------------------	--------------------------------------

59.63

X 9.34

1+90	64.16 4.81 <u>0.4</u> C 4.4	63.42 5.55 <u>4.8</u> C 0.8
------	--------------------------------------	--------------------------------------

4460

60.76

7.62

5.1

C 2.5

60.01

8.96

L

S

X

U

1+70	64.19 4.78 <u>0.7</u> C 4.1	63.46 5.51 <u>5.0</u> C 0.5
------	--------------------------------------	--------------------------------------

4+10

61.40

6.98

4.6

C 2.4

60.65

8.32

1+50	64.07 4.90 <u>1.0</u> C 3.9	63.38 5.59 <u>5.3</u> C 0.3
------	--------------------------------------	--------------------------------------

TR

3+60

6.60 68.387

62.04

6.93

4.3

C 2.6

7.19

V 61.78

61.29

7.68

6.6

C 1.1

68.977

68.977

Roberts
Moore
Clark
9-19-50
NO 31568

Rough Grades For Haines
Garnet to Hornblend
(Gutter Grades)
75466

8

INDEXED
APR 27 1951

2406	63.06 766 <u>57</u> C 2.0	63.48 724 <u>51</u> C 2.1
------	------------------------------------	------------------------------------

1744.71 ^{So. Line Alley}	64.24 648 <u>42</u> C 2.3	64.66 606 <u>42</u> C 1.9
-----------------------------------	------------------------------------	------------------------------------

1724.71 ^{No. Line Alley}	64.63 609 <u>47</u> C 1.4	65.03 569 <u>38</u> C 1.9
-----------------------------------	------------------------------------	------------------------------------

0770	65.71 501 <u>41</u> C 0.9	66.03 469 <u>23</u> C 2.4
------	------------------------------------	------------------------------------

0720	66.66 406 <u>34</u> C 0.7	66.98 374 <u>140</u> C 2.34
------	------------------------------------	--------------------------------------

0700 ^{Exit Haines}	67.09 3.65	67.38 334 322
-----------------------------	---------------	---------------------

2759.42 ^{B.C. Hornblend}	62.03 8.67 <u>64</u> C 2.3	62.53 8.19 <u>59</u> C 2.3
-----------------------------------	-------------------------------------	-------------------------------------

BN	7.85	70.72 X	62.87	SW 7°	Non Haines Hornblend
----	------	---------	-------	-------	----------------------

Haines Cont'd
 (Hornblend to Grand)
 (Gutter Grader)

INDEXED
 APR 27 1954

2+59^{BC}
 Grand

54.53
 1121
 89
 C 2.3

54.23
 1151
 90
 C 2.3

2+01

55.91
 983
 78
 C 2.0

55.79
 995
 77
 C 2.3

1+47.59^{So. line Alley}

57.29
 845
 58
 C 2.7

57.35
 839
 62
 C 2.2

1+24.59^{No. line Alley}

57.77
 797
 59
 C 2.1

57.89
 785
 53
 C 2.6

0+67

59.15
 659
 46
 C 2.0

59.46
 628
 39
 C 2.4

0+10^{BC}
 Hornblend

60.53
 521
 28
 C 2.4

61.03
 471
 30
 C 1.7

BM

2.87

15.74

62.87

SW 7' 11' 1/2
 Horn. & Haines

Roberts
Moore
Clark
1-20-50
W181568

Rough Grades Dawes
Hornblend to Grand

Gutter Grates 7543L

check

708

14.89 = 14.84 SET Mon
Thomas & Dawes 10

Grand to Thomas (Gutter Grades)

7544L

INDEXED

ADD 27 11/11 15.33
6.64
50
C 1.6

2+58 BC Grand
22.34
5.44
42
C 1.2
21.90
5.98
58
C 0.2

BC 15.83
2+60.02 Thomas 6.14
79
C 1.2

2+02
16.89
5.08
33
C 1.8

16.39
5.58
37
C 1.9

2+01
22.28
4.90
39
C 1.0
22.33
5.45
53
C 0.2

T.P. 213 21.97X
17.95
1+45.01 9.83
68
C 3.0

7.94 19.84
17.45
10.33
88
C 1.5

1+44.31
23.42
4.36
31
C 1.3
22.87
4.91
44
C 0.5

1+25.01
18.33
9.45
77
C 1.8

17.22
7.96
88
C 1.2

1+24.31
23.60
4.19
28
C 1.4
23.05
4.73
39
C 0.8

0+67
19.38
8.40
71
C 1.3

18.87
8.91
82
C 0.7

0+65
24.13
3.65
29
C 0.8
23.59
4.19
30
C 1.2

0+10 BC Grand
20.43
7.30
66
C 0.8

19.93
7.85
77
C 0.2

BC 0+10 Hornblend
24.66
3.12
21
C 1.0
24.14
3.64
27
C 0.9

TBM

202 27.78X

26.76 in 1

27.78X

Robert
Moore
Clark
9-21-50
W 21564

Rough Grates Hornblend
Cass to Dawes
Gutter Grates 7532L

INDEVENT
APP 27 1951

11

2750	23.46	22.97
	4.71	5.20
	<u>36</u>	<u>51</u>
	C 1.1	C 0.1

2100	23.23	22.72
	4.94	5.45
	<u>39</u>	<u>52</u>
	C 1.0	C 0.3

1750	23.01	22.47
	5.16	5.90
	<u>44</u>	<u>59</u>
	C 0.8	GRD

1400	22.78	22.22
	Exist	5.95
		<u>61</u>
		FOI

0750	22.56	21.97
	2.61	Exist

0700	22.27	21.72
	Exist	

TBM 408 28.17 X

2409 See pg. 1

49975	P.C.	24.58	24.25
	Dawes	3.59	3.92
		19	31
		<u>C 1.7</u>	<u>C 0.8</u>

4450	24.36	23.98
	3.81	4.19
	<u>25</u>	<u>34</u>
	C 1.3	C 0.8

4000	24.13	23.72
	4.04	4.45
	<u>30</u>	<u>45</u>
	C 1.0	GRD

3750	23.91	23.47
	4.26	4.70
	<u>37</u>	<u>51</u>
	C 0.6	FO.4

3000	23.68	23.22
	4.49	4.95
	<u>39</u>	<u>50</u>
	C 0.6	GRD

28.17 X

Robert
Moore
Clerk 50
9-25-50
no 31566

Rough Grades on Paves

Thomas to Road

Gutter Grades

7544L

Robert
Cata
Moore
Clerk
9-25-50

Paves Cont'd

(Road to Oliver)

Gutter Grades

7545L

12

699 = 2.99 ← 2.98 NW 1/4 Hub
Oliver & Dary

check

at the break
Daves & Road S.W. Cor.

TP	2.25	2.680			
2+5970 Road	9.83 7.16 <u>57</u> C 2.0	9.83 7.10 <u>67</u> C 0.7	2+6028 Oliver	3.04 6.94 <u>48</u> C 2.6	2.75 7.23 <u>56</u> C 1.6
2+01	16.84 6.09 <u>51</u> C 1.0	10.72 6.21 <u>48</u> C 1.4	2+02	4.25 5.73 <u>35</u> C 2.2	4.03 5.75 <u>42</u> C 1.7
1+4470	11.85 5.08 <u>41</u> C 1.0	11.62 5.31 <u>48</u> C 0.5	1+4514	5.47 4.51 <u>25</u> C 2.0	5.32 4.66 <u>36</u> C 1.1
1+2470	12.20 4.73 <u>35</u> C 1.2	11.93 5.00 <u>41</u> C 0.3	1+2514	5.89 4.09 <u>24</u> C 1.7	5.77 4.21 <u>34</u> C 0.8
0+67	7.21 3.72 <u>28</u> C 0.9	12.83 4.10 <u>27</u> C 1.4	0+77	6.90 3.08 <u>13</u> C 1.8	6.81 3.17 <u>20</u> C 1.2
BC 0+10 Thomas	14.23 2.70 <u>13</u> C 1.4	13.73 3.20 <u>16</u> C 1.6	0+30	7.71 2.07 <u>12</u> C 1.9	7.86 2.12 <u>13</u> C 0.8
			BC 0+10 Road	8.25 1.73 <u>01</u> C 1.6	8.33 1.65 <u>07</u> C 1.0
BM	2.09	16.93 X		0.30	9.92 X
		1480 SE 1/4 Thomas & Dary			9.68

INDEXED
APR 27 1951

INDEXED
APR 27 1951

9-25-50

Damos Cont'd

Gutter Grades

2746.60
20 Red. Dr.

090 R.H.T.
614
0.89
703
62
C0.8

2716

614
-0.63
677
59
C0.9

1771

614
-0.25
639
59
C0.5

1737.30

0.12
602
51
C0.9

15 1/2" mid
20 " Van E

1717.30

0.33
581
47
C1.1

0763

0.92
522
42
C1.0

7.5

102 6.14T
152
846
668
C1.8

9.98T

0.74 = HWP Prop. h/d
P.H. Ed. & Damos

614
-0.56
670
51
C1.6

614
-0.32
646
50
C1.5

614
0.01
613
48
C1.3

0.35
579
51
C0.7

0.53
561
50
C0.6

1.04
510
35
C1.6

2.12
1.55
8.43
662
C1.8

9-25-50

Rough Grades on Haines

(Fortuna + Roosevelt)

Gutter Grades

7549L

2752

37.24
6.60
29
C3.7

2702

37.51
6.33
18
C4.3

1752

37.79
6.05
21
C3.4

1702

38.06
5.78
32
C2.6

0752

38.34
5.50
29
C2.6

0702 5-20
Fortuna

5003T surfg 15
38.62
11.41
90
C2.4

IBM

4.42

43.84T

13

INDEXED

APR 27 1951

36.92
6.92
11.5
F 4.6

37.15
6.69
11.1
F 4.4

37.38
6.46
10.6
F 4.1

37.61
6.23
10.5
F 4.3

37.84
6.00
6.8
F 0.8

5003
38.07
11.96
11.4
C 0.6

Hb R. Haines
39.42 No. 71 Roosevelt

5752	35.59 8.25	35.54 830
	<u>27</u>	<u>64</u>
	C 5.6	C 1.9

5702	35.86 7.98	35.77 8.07
	<u>26</u>	<u>76</u>
	C 5.4	C 0.4

4752	36.14 7.70	36.00 7.84
	<u>28</u>	<u>84</u>
	C 4.9	F 0.6

4702	36.41 7.43	36.23 7.61
	<u>27</u>	<u>88</u>
	C 4.7	F 1.2

3752	36.69 7.15	36.46 7.38
	<u>28</u>	<u>115</u>
	C 4.4	F 4.1

set TBM

2.18 41.31 { Haines
Hubert Fortona

T.P. 6.71 43.48

7.07 36.77

3702	36.96 6.88	36.69 7.15
	<u>27</u>	<u>12.1</u>
	C 4.2	F 4.9

5795.12 BC
Russell 35.34
850
28
C 5.7

35.34
850
585
C 2.6

43.84X

43.84X

9-26-50

Haines Cont'd
 Pacific Beach Dr. to Fortuna
 Gutter Grates

7549L

INDEXED
 APR 27 1951

15

1+20 EVC	49.34 680 <u>31</u> C 3.7	48.84 730 <u>46</u> C 2.7	4+20	41.86 817 <u>46</u> C 3.6	41.36 867 <u>70</u> C 1.7
1+00	49.79 635 <u>25</u> C 3.9	49.29 695 <u>48</u> C 2.0	3+70	43.09 694 <u>40</u> C 2.9	42.59 744 <u>63</u> C 1.1
0+80	50.14 600 <u>25</u> C 3.5	49.64 650 <u>42</u> C 2.3	3+20	44.33 570 <u>35</u> C 2.2	43.83 620 <u>58</u> C 0.4
0+60	50.41 573 <u>23</u> C 3.4	49.91 623 <u>39</u> C 2.3	TP 2+70	3.04 50.03 4556 1058 <u>90</u> C 1.6	9.15 46.99 45.06 11.08 <u>105</u> C 0.6
0+40 PVC	50.58 556 <u>15</u> C 4.1	50.08 606 <u>41</u> C 2.0	2+20	46.80 934 <u>78</u> C 1.5	46.30 984 <u>88</u> C 1.0
0+00 BC P. 3d.	50.83 531 <u>10</u> C 4.3	50.33 581 <u>44</u> C 1.4	1+70	48.03 811 <u>52</u> C 2.4	47.53 861 <u>71</u> C 1.5

TBN

248

5614A

53.66 Rimp. Mt.
 Set FB 1871 #965

5614A

Haines Cont'd
 Eleu. of Cb+walk in Lots 11+12 Blk. 2 on
 = Middle of Lots as Built.

E. side Haines - Bet. Pac. Beach Dr. + Fortuna 16

5322

W.O. 20006

6-5-51

7.0.

INDEXED
 JUN 6 1951

E. cb line

2+00 =

47.64 47.1 46.7 46.54 46.29 45.48
 floor 37.5 17.5 10 5
 along E.L. walk
 House

2+61.5 = Conc. Walk to House

47.62 47.55 47.52
 27.3 17.5 10

2+50 = N.L. Lot 11
 0+00 = S.L. Pac. Beach Dr.

49.36
 floor House
 See Pg 14

47.6 47.8 47.77 47.55 46.80
 32 17.5 10 5 Top cb.
 E.L. walk from Profile
 along E House

ck 270

41.33 = 41.31 14

5+22.64^{8c}
 Fortuna

39.39
 1064
 64
 C 7.2

38.89
 1114
 93
 C 1.8

4+70

40.62
 941
 57
 C 3.7

40.12
 991
 83
 C 1.6

50.13X

Roberts
Cota
Moore
Clark
9-27-50
W.O. 20610

Stake Reed St. Storm Drain
(Grand to Graham)

check

T.P.

3.14

5.14

6.79 44.15 = 44.15

8.82

48.00

17

Let of Reed & Ingraham

8151 L

FB207, 1739 & 2083

INDICATED

AN

6+50

43.01

13.81

471

C 9.10

9+0

35.85

16.61

454

C 12.07

6+0

44.46

12.36

400

C 8.36

EM

8.31

52.46 π

cleanout & } Grade
8+75, 12 Junction Box } Break
= +0.06 E. antheas

In 24"

36.50

20.32

882

C 11.50

Out 30"

36.00

20.82

882

C 12.00

5+50

45.90

10.92

326

C 7.66

8+50

37.23

19.59

856

C 11.03

5+0

47.35

9.47

211

C 7.36

8+0

38.68

18.14

795

C 10.19

4+50

48.79

8.03

2.00

C 6.03

7+50

40.12

16.70

668

C 10.02

4+32 \pm

Beginning
Inlet NE. Cor.
Ingraham & Grand

30 R.P. #10

52.82 π

55.83 Top Cb.

0.97

C 0.58

49.30

7.52

0.97

C 6.81

7+0

41.57

15.25

578

C 9.47

T.P.

BM

0.99

56.82 π

1.55

5.54

57.38

55.83 = 56.25

51.84 - Jewell & Grand

Grand & Ingraham NE 8 P.

56.82 π

Reed Storm Drain Cont'd

Inlet 

cb ord.	Fl. Line	
44.00	38.00	18
8.46	14.46	
819	819	
<u>C0.27</u>	<u>C6.27</u>	

13+0

33.41
19.05
<u>7.77</u>
<u>C11.28</u>

11+50

34.34
18.12
<u>7.22</u>
<u>C10.90</u>

To Inlet

cleanout #
12+76.24 Junction to Inlet

35.50	33.58
16.96	18.88
907	907
<u>C7.89</u>	<u>C9.81</u>

11+0

34.64
17.82
<u>6.85</u>
<u>C10.97</u>

12+58.24 EC Reed St.

33.70
18.76
<u>8.68</u>
<u>C10.08</u>

10+50

34.74
17.52
<u>6.06</u>
<u>C11.46</u>

12+23.67
Midpoint Curve

33.91
18.55
<u>8.35</u>
<u>C10.20</u>

cleanout #
10+43.12 Junction Box
= 0+00 E. on Alley BK 200

34.98
17.48
<u>5.99</u>
<u>C11.49</u>

11+89.11 BC Reed St.

34.11
18.35
<u>7.60</u>
<u>C10.75</u>

10+0

35.25
17.21
<u>5.75</u>
<u>C11.46</u>

cleanout #
11+87.11 Junction Box
= 0+00 E. on Reed

34.12
18.34
<u>7.47</u>
<u>C10.87</u>

9+50

35.55
16.91
<u>5.26</u>
<u>C11.65</u>

52.46π

52.46π

Reed St. Storm Drain Cont'd

check

52.66X
4.68

47.98 = 47.98 19

Grade
Break

52.66

29.21

23.45

532

C 18.13

NET Mon

47.98 Reed & Haines

29.56

23.10

549

C 17.61

16+0

31.31

21.15

524

C 15.91

BM

2.59

50.57X Next Page

18+50

31.66

20.80

493

C 15.87

15+50

18+0

32.01

20.45

486

C 15.59

15+0

29.91

22.75

485

C 17.90

17+50

32.36

20.10

428

C 15.82

14+50

30.26

22.40

526

C 17.12

17+0

32.71

19.75

476

C 14.99

14+0

30.61

22.05

524

C 16.81

T.P.

5.58

52.66X

5.38

47.08

16+50

30.96

21.50

538

C 16.12

13+50

33.06

19.40

579

C 13.61

52.46X

52.46X

36.92T	Top Corp	F. Line 30"
23.50	31.64	21.76
13.42	4.26	14.14
8.24	4.16	4.16
	CA/O	C 9.98

23+90.32 Inlet #

Junction Box

For cb. Inlets only

BM 532 36.92T

31.60 SW 71 MON. Gresham & Reed

22+0

24.65
13.31
4.68
C 8.63

23+88.57 EC

~~21.79~~

21+50

25.41
12.55
3.64
C 8.91

TP 430 35.90T

6% 36.26T 31.60

SW 71 MON
Gresham & Reed

23+73.21 BC, Street

Gresham
22.02 22.02
14.27 15.94
C 10.02 6.55
C 9.39

21+0

26.17
11.79
1.79
C 10.00

TP 0.34

379.5 T 12.95

376.2

23+50

22.37
15.59
6.15
C 9.44

20+50

26.93
23.64
11.68
C 11.96

23+0

23.13
14.83
5.61
C 9.22

20+0

52.57
27.69
22.88
8.71
C 14.17

50.57T

22+50

23.89
14.07
5.15
C 8.92

19+50

52.66
28.75
24.21
7.16
C 17.05

52.66T

379.6 T

26200
 18.47
 17.43
 810
 C 9.35

29200
 14.01
 14.59
 450
 C 10.09

25450
 19.23
 16.67
 724
 C 9.43

28450
 14.77
 13.83
 726
 C 9.57

25400
 19.99
 15.91
 638
 C 9.53

28400
 29.397
 18.99 FL. 24.83 Top Cb.
 10.99
 443
 C 5.96
 29.397
 24.83 Top Cb.
 443
 C 0.73
 15.53
 13.07
 704
 C 8.99

24450
 20.75
 15.13
 524
 C 9.91

T.P. 2.87 28.60
 10.17 25.13
 Top C.O.
 24.00
 11.90
 10.17
 C 1.73
 Invert
 16.39
 19.51
 10.17
 C 9.34

24417.05 EC
 21.35
 14.55
 466
 C 9.89

(S.E. Cor. Gresham Oliver)
 29.397
 19.00 FL.
 10.39
 3.98
 C 6.41
 29.397
 24.40 Top Cb.
 4.99
 3.98
 C 1.01
 17.05
 18.85
 10.11
 C 8.74

24401.69 BC
 36.26A
 21.57
 14.67
 496
 C 9.71

26450
 17.71
 18.19
 934
 C 8.85

cb Inlet #10
 36.92A
 36.92A
 FL. 24" PIPE 2350 Top Cb. 31.92
 13.42
 475
 C 8.24
 35.90A
 500
 475
 C 0.25

35.90A

Roberts
Cota
Moore
Clark
9-28-50
W0 31658

Curtis Stokes Dawes St.
Alley BIX 223 to Pac. Beach Dr.

lt

RE

22

Dawes
1+18.28 BC

.7543 L
R4

25.90
509
465
C 0.74

0+89.21

26.57
442
432
C 0.10

0+60.14

27.24
375
340
C 0.35

0+31.07

27.91
3.08
239
C 0.69

Rd.
0+02 Pt.

Rd. Alley	EC Street
28.61	28.59
2.38	2.40
<u>316</u>	<u>316</u>
F 0.78	F 0.76

So. Alley End
0+00 Line } Rt

28.83
2.16
250
F 0.34

#1
#2
#3
change from 30' to 35' Red.
Per Tucker Oct 2, 1950

25.50
549
598 F 0.34
F 0.49

25.65
534
548
F 0.14 F 0.04

25.80
519
479
C 0.40

EC
EC
Hornblend

25.90
509
500
C 0.09

EC on Hornblend

#2

#1

Existing

INDEXED
ADD

30.57
25.50
507
541
F 0.34

30.57
25.80
477
421
C 0.25

30.57
25.90
469
457
C 0.10

24.69
6.30
590
C 0.40

24.75
6.24
587
C 0.37

25.25
5.74
505
C 0.69

25.45
5.54
502
C 0.52

25.72
5.27
473
C 0.54

TBM 4.23

30.997

26.76 pg 1

30.997

Lt. Dawes R2

23

1+24.31 End Alley Rot

24.55
3.48
308
C 0.40

23.75
7.24
714
C 0.10

BC 23.09
2+58.63 Dawes 4.94
5.59
F 0.65

22.30
2.48
261
F 0.13

1+20.31 BC Rod
1+20.31 Alley pt.

street - Alley
24.59 24.35
3.64 3.68
3.97 3.97
F 0.53 F 0.29

Street Alley
23.59 23.59
7.40 7.40
7.29 7.29
C 0.11 C 0.11

T.P. 2.32 24.79 R+ 853
2+31.05 23.35
4.68
5.34
F 0.66

22.46
22.56
8.43
8.53
F 0.10

0+91.74
0+92.74

24.64
3.39
3.69
F 0.30

23.84
7.15
6.78
C 0.37

2+03.47 23.61
4.42
4.86
F 0.44

22.82
8.17
8.22
F 0.05

0+63.14
0+65.16

24.89
3.14
3.34
F 0.20

24.10
6.89
6.46
C 0.43

1+75.89 23.87
4.16
4.59
F 0.73

23.08
7.91
7.94
F 0.03

0+34.58
0+37.58

28.03
25.14
2.89
3.08
F 0.19

24.37
6.62
6.30
C 0.32

Rad 1+48.31 pt
Street Alley
24.13 24.21
3.90 3.82
4.22 4.22
F 0.32 F 0.40

Street Alley
23.33 23.41
7.66 7.58
7.38 7.38
C 0.28 C 0.20

TEN 1.27
BC on Dawes 0+06
BC 0+10
15

28.03 R2
25.40 30.57
5.69 25.40
5.17
5.97 5.53
F 0.38 F 0.36

26.76
24.64
6.35
6.01
C 0.34

1+44.31 End Alley Rot
24.37
3.66
3.33
C 0.33

23.57
7.42
76.1
F 0.19

30.99 R2

28.03 R2

30.99 R1

Dawes

#1

21.27
6.76
732
F0.56

20.81
3.97
371
C 0.26

1+24.01
End Alley Rd
19.19
2.49
156
C 0.93

18.67
6.09
584
C 0.25

#2

21.50
6.53
718
F0.65

21.04
3.74
511
F 1.37

1+21.01
Street Alley Rd.
19.06 17.02
2.62 2.65
305 305
F0.43 F0.40

Street Alley
18.56 18.53
6.22 6.25
518 518
C 1.04 C 1.07

#3 End cb Grand

21.73
6.30
602
C0.28

21.17
3.61
413
F0.52

0+93.25
19.57
2.11
202
C 0.09

19.07
5.71
518
C 0.53

#3 End cb Grand

23.00
5.03
503
F0.02

22.15
2.63
300
F0.37

0+65.50
20.08
1.60
154
C 0.06

19.58
5.20
481
C 0.39

#2

22.97
5.06
508
F0.02

22.20
2.58
305
F 0.47

0+37.75
20.59
1.09
116
F 0.07

20.09
4.69
421
C 0.48

#1

23.00
5.03
568
F0.65

22.25
2.53
255
F0.02

TP 1.04 21.68 X Lt
B.C. 21.10
Dawes 0+10 6.93
739
F 0.46

7.39 20.64
20.60
4.18
422
F 0.04

BC
2 + 60.02 Daves

16.50
5.18
498
C 0.20

16.00
878
794
C 0.84

#1

15.10
6.58
653
C 0.05

14.55
10.23
989
C 0.34

2 + 32.26

17.01
4.67
433
C 0.34

16.51
827
882
F 0.55

#2

15.30
6.38
635
C 0.03

14.80
9.98
1050
F 0.52

2 + 0#.51

17.52
4.16
381
C 0.35

17.02
7.76
855
F 0.79

#3 End
cb
Thomas

15.48
6.20
615 Exist
C 0.05

14.96
9.82
1000
F 0.18

1 + 76.76

18.03
3.65
336
C 0.29

17.53
7.25
610
C 1.15

#3 End
cb
Thomas

16.00
5.68 Exist
555
C 0.13

15.58
9.20
956
F 0.36

1 + 49.01
Rd
Alley

Street Alley
18.85 18.66
3.13 3.02
310
C 0.43 F 0.08

Street Alley
18.05 18.16
6.73 6.62
563 563
C 1.10 C 0.99

#2

16.08
5.60
539
C 0.21

15.70
9.08
895
C 0.13

1 + 44.01
End
Alley
Rd

18.82
2.86
070
C 2.16

18.32
6.76
580
C 0.66

#1

16.28
5.40
535
C 0.05

15.85
8.93
800
C 0.93

28.03 T 2t

24.78 T R

21.68 T 2t

24.78 T R

check →

Dawes

Rx 238 14.88 = 14.84 Mon
Dawes + Thomas
Lt 680 1488 =

36

1724.70 End
Rt Alley

13.07
1.71
12.6
C 0.45

12.80
4.39
4.94
F 0.55

BC 10.50
2759.40 Dawes 4.28
4.51
F 0.23

10.50
6.69
6.20
C 0.49

1720.70 Rad
Pt Alley

Street Alley
12.94 12.91
1.84 1.87
1.76 1.96
F 0.12 F 0.09

Street Alley
12.66 12.64
4.53 4.55
4.17 4.17
C 0.36 C 0.39

2731.73

10.99
3.79
4.00
F 0.21

10.93
6.26
5.85
C 0.41

T.P. 0793.04

222 14.78 Rx Lt 8.12 13.56
13.43
8.25
8.12
C 0.13

13.09
4.10
3.63
C 0.47

2704.06

11.48
3.30
3.41
F 0.11

11.36
5.83
5.45
C 0.38

0765.36

13.92
7.76
7.82
F 0.06

13.53
3.66
3.04
C 0.62

1776.38

11.97
2.81
2.95
F 0.14

11.79
5.40
5.05
C 0.35

0737.68

14.41
7.27
7.37
F 0.12

13.96
3.23
2.92
C 0.71

1748.70 Rad
Pt Alley

Street Alley
12.45 12.56
2.33 2.22
2.52 2.32
F 0.19 F 0.30

Street Alley
12.23 12.33
4.96 4.86
4.56 4.56
C 0.46 C 0.30

TP 202 BC Dawes 0710

1719 Rx Lt 9.61
14.90
6.78
6.85
F 0.07

15.17
14.40
10.38
9.61
C 0.77

1744.70 End
Rt Alley

12.72
2.06
1.89
C 0.17

12.49
4.70
5.02
F 0.32

21.68 Rx Lt

24.78 Rx Lt

14.78 Rx Lt

17.19 Rx Lt

#1
 9.17
 5.61
571
 F 0.10

9.18
 2.59
260
 F 0.01

1725.14
 Ent 6.76
 Alley 8.02
 Ret 7.11
C 0.91

14.78X
 Exist 6.64
 Pav. 8.14
850
 F 0.36

#2
 9.31
 5.47
596
 C 0.01

9.35
 2.42
242
 Grade

1721.14
 street 6.64
 Ret 8.14
 Alley 8.22
F 0.08
 Alley 6.60
 8.18
 8.22
F 0.04

Street 6.52
 Alley 6.48
 5.25 5.29
475 475
 C 0.50 C 0.54

#3
 9.42
 5.36
461
 C 0.75

9.46
 2.31
210
 C 0.21

0+93.35
 7.23
 7.55
752
 C 0.03

7.14
 4.63
430
 C 0.33

check 205 1177XIT 7.47 C 0.91 972 = 9.68 road # Dawes

R₂
 10.00
 1.77
 0.96
0.91

#3
 10.02
 4.76
418
 C 0.58

10.05
 7.14
611
 C 1.03

0+65.56
 7.82
 6.96
763
 F 0.67

7.76
 4.01
477
 F 0.76

#2
 10.13
 4.65
397
 C 0.68

10.18
 7.01
606
 C 0.95

0+37.78
 8.41
 6.37
622
 C 0.15

8.38
 3.39
241
 C 0.98

#1
 10.31
 8.47
459
 F 0.12

10.34
 6.85
616
 C 0.69

84
 Dawes 0+10
 9.00
 5.78
5.88
 F 0.10

9.00
 2.77
268
 C 0.09

14.78XIT 17.19XIT

14.78XIT 16.77XIT

2760.28 BC Dawes

$$\begin{array}{r} 3.71 \\ 3.83 \\ \hline 349 \\ C 0.34 \end{array}$$

$$\begin{array}{r} 3.42 \\ 8.35 \\ \hline 746 \\ C 0.89 \end{array}$$

#3

$$\begin{array}{r} 2.56 \\ 4.98 \\ \hline 360 \\ C 1.38 \end{array}$$

$$\begin{array}{r} 2.46 \\ 306 \\ \hline 260 \\ C 0.46 \end{array}$$

2732.49

$$\begin{array}{r} 430 \\ 324 \\ \hline 282 \\ C 0.42 \end{array}$$

$$\begin{array}{r} 4.04 \\ 7.73 \\ \hline 703 \\ C 0.70 \end{array}$$

T.P. #4 EC Oliver on Rt

2.76 5.52 T.R. 9.01 2.76

$$\begin{array}{r} 2.53 \text{ East} \\ 9.24 \end{array}$$

2704.70

$$\begin{array}{r} 489 \\ 265 \\ \hline 236 \\ C 0.29 \end{array}$$

$$\begin{array}{r} 4.66 \\ 7.11 \\ \hline 682 \\ C 0.29 \end{array}$$

#4 EC Oliver on Rt

$$\begin{array}{r} 3.20 \\ 8.57 \text{ East} \end{array}$$

1776.92

$$\begin{array}{r} 5.48 \\ 2.06 \\ \hline 186 \\ C 0.20 \end{array}$$

$$\begin{array}{r} 5.28 \\ 6.49 \\ \hline 623 \\ C 0.26 \end{array}$$

#3

$$\begin{array}{r} 3.37 \\ 4.17 \\ \hline 295 \\ C 1.22 \end{array}$$

$$\begin{array}{r} 3.15 \\ 8.62 \\ \hline 821 \\ C 0.41 \end{array}$$

T.P. 1.39

1.39

7.54 T.H.

8.63

6.15

$$\begin{array}{r} \text{Street} \quad \text{Alley} \\ 6.06 \quad 6.18 \\ 8.72 \quad 8.60 \\ \hline 863 \quad 8.63 \\ C 0.09 \quad F0.03 \end{array}$$

$$\begin{array}{r} \text{Street} \quad \text{Alley} \\ 5.91 \quad 6.03 \\ 5.86 \quad 5.74 \\ \hline 473 \quad 473 \\ C 1.13 \quad C 1.01 \end{array}$$

#2

$$\begin{array}{r} 3.40 \\ 4.14 \\ \hline 389 \\ C 0.25 \end{array}$$

$$\begin{array}{r} 3.18 \\ 8.59 \\ \hline 833 \\ C 0.26 \end{array}$$

1745.14 End Alley Rt

$$\begin{array}{r} 6.34 \\ 844 \\ \hline 721 \\ C 1.23 \end{array}$$

$$\begin{array}{r} 1478 \\ 6.19 \\ 8.59 \\ \hline 839 \\ C 0.20 \end{array}$$

#1

$$\begin{array}{r} 3.53 \\ 4.01 \\ \hline 383 \\ C 0.18 \end{array}$$

$$\begin{array}{r} 3.28 \\ 849 \\ \hline 765 \\ C 0.84 \end{array}$$

1478 T.H. 11.77 T.H.

7.54 T.H. 11.77 T.H.

Dawes

Lt

Rt

Lt

Rt

0+85.60
0+87.48

1.33
6.21
622
F 0.01

148
4.04
320
C 0.84

1+87.33
1+86.50

0.38
7.16
767
F 0.51

9.46
5.06
465
C 0.41

0+60.70
0+61.66

1.61
5.93
595
F 0.02

1.72
3.80
423
F 0.43

1+63.06
1+61.40

0.56
6.98
722
F 0.24

0.67
4.85
475
C 0.10

0+35.26
0+35.82

1.89
5.65
553
C 0.12

1.96
3.56
281
C 0.75

1+38.80 Rad.
1+36.30 Alley

Street Alley
0.74 0.83
6.80 6.71
682 682
F 0.02 F 0.11

Street Alley
0.98 1.06
4.54 4.46
345 345
C 1.09 C 1.01

BC Pairs
0+10

2.19
5.35
530
C 0.05

2.28
3.32
265
C 0.67

1+34.80 cb
1+32.30 End Alley

0.99
6.55
647
C 0.08

1.22
4.30

#1

2.30
5.24
535
C 0.09

2.27
3.25
255
C 0.70

1+14.80 cb
1+17.30 End Alley

1.20
6.34
609
C 0.25

1.40
4.12
4.35

#2

2.42
5.12
362
C 1.50

2.36
3.16
276
C 0.40

1+10.80 Rad
1+13.30 Alley

Street Alley
1.06 1.04
6.49 6.50
662 662
F 0.13 F 0.12

Street Alley
1.24 1.24
4.28 4.28
367 367
C 0.61 C 0.61

7.54 Lt

5.52 Rt

7.54 Lt

5.52 Rt

Lt.

Dawes

Rt.

36

Exist at
2751.60 Pac. Beh. Dr.
$$\begin{array}{r} -0.70 \\ 824 \\ 785 \\ \hline C0.32 \end{array}$$

-0.10

$$\begin{array}{r} 562 \\ \text{Exist } 547 \\ \hline 15 \end{array}$$
2741.60 BC
on Dawes
at Pac. Beh. Dr.
$$\begin{array}{r} -0.40 \quad 0.00 \\ 794 \quad 754 \\ 772 \quad 792 \\ \hline C0.62 \quad F0.38 \end{array}$$

$$\begin{array}{r} 0.09 \\ 552 \quad 540 \\ 486 \quad 486 \\ \hline C0.66 \quad C0.84 \end{array}$$

2711.60 BRK

$$\begin{array}{r} 0.20 \\ 734 \\ 774 \\ \hline F0.40 \end{array}$$

$$\begin{array}{r} 0.35 \\ 517 \\ 485 \\ \hline C0.32 \end{array}$$

7.54 Lt

552 Rt

Oct 3, 1950

Rough Grades Haines

Grand to Thomas

Gutter Grades 7547L

INDEXED
APR 27 1951

31

1745 ¹⁰ Alley	6158 54.79 4 BK 679 31 C 3.7	6158 54.24 734 5 BK 66 C 0.7
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1725 ¹⁰ Alley	6158 54.83 4 BK 675 39 C 2.9	6158 54.33 5 BK 725 68 C 0.5
--------------------------	--	--

1705	6158 54.94 6.64 33 C 3.3	6158 54.39 719 53 C 1.9	Nail in wall
------	--------------------------------------	-------------------------------------	--------------------

0785	6158 54.87 671 32 C 3.5	6158 54.32 726 54 C 1.9	Nail in wall
------	-------------------------------------	-------------------------------------	--------------------

2760 ²⁰	BC 30 RP Haines Thomas	6158 52.85 8.73 42 C 4.5	6158 52.30 9.28 70 C 2.3
--------------------	---------------------------------	--------------------------------------	--------------------------------------

0747 ⁵	6158 54.61 697 38 C 3.2	6158 54.06 752 64 C 2.1	Nail in wall
-------------------	-------------------------------------	-------------------------------------	--------------------

2712 ⁶⁰	6158 53.66 7.92 38 C 4.1	6158 53.11 8.47 64 C 2.1
--------------------	--------------------------------------	--------------------------------------

0710 ^{BC} Pavers at Grand	6158 X 54.35 723 37 C 3.5	6158 53.80 778 80 F 0.2
--	---------------------------------------	-------------------------------------

1765 ¹⁰	6158 X 54.47 7.11 31 C 4.0	6158 53.92 7.66 66 C 1.4	3 BK
--------------------	--	--------------------------------------	------

BM

554

6158 X

56.04 NE

7' Mon Thomas
&
Haines

6158 X

Oct 3, 1950

Haines
Thomas to Reed
Gutter Grade2+59.6
B.C.
30 R.P.
Haines & Reed56.82
47.33
9.49
8.0
C 1.556.82
47.33
9.49
8.0
C 1.5

2+02.2

56.82
48.36
8.46
5.5
C 3.056.82
48.25
8.57
6.2
C 2.4

1+44.80 Alley

56.82
49.40
7.42
5.3
C 2.156.82
49.17
7.65
5.6
C 2.1

1+24.80 Alley

56.82
49.76
7.06
4.7
C 2.456.82
49.49
7.33
5.5
C 1.8

0+67.4

56.82
50.79
6.03
3.4
C 2.656.82
50.41
6.41
4.1
C 2.30+10
B.C.
Haines
at Thomas56.82
51.83
4.99
2.32
C 2.756.82
51.33
5.49
3.6
C 1.9

BN 0.78

56.82 A

56.04

Oct 3, 1950

Gutter Grade
Reed to Oliver2+59.89
B.C.
Haines
at Oliver49.61
42.53
7.08
5.7
C 1.4BRK
2+39.8949.61
42.81
6.80
5.6
C 1.2

1+92.41

49.61
43.47
6.14
5.2
C 0.9

1+44.94 Alley

49.61
44.14
5.47
4.7
C 0.8

1+24.94 Alley

49.61
44.42
5.19
4.2
C 1.0

0+67.41

49.61
45.22
4.39
3.7
C 0.70+10
B.C.
Haines
at Reed49.61
46.03
3.58
2.2
C 1.4

BN

6.13

49.61 A

43.48 5/27/50
Haines at Oliver

32

49.61
42.03
7.58
5.6
C 2.049.61
42.35
7.26
5.7
C 1.649.61
43.71
6.50
5.1
C 1.449.61
43.87
5.74
4.5
C 1.249.61
44.19
5.42
4.3
C 1.149.61
45.11
4.50
3.6
C 0.949.61
46.03
3.58
3.1
C 0.5

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Oct. 4, 1950

Haines
Oliver to Pac. Beh. Dr.
Gutter Grades 7548L

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2+22²

47.76	47.26
921	971
<u>34</u>	<u>101</u>
C 5.8	F 0.4

1+78⁶

46.68	46.18
1029	1079
<u>50</u>	<u>106</u>
C 5.3	C 0.2

T.P.

7.20

56.97 π 4.33 47.77

1+35 Alley

45.60	45.10
650	700
<u>25</u>	<u>78</u>
C 4.0	F 0.8

1+15 Alley

45.11	44.61
699	749
<u>43</u>	<u>80</u>
C 2.7	F 0.5

0+62⁵

43.82	43.52
828	858
<u>65</u>	<u>87</u>
C 1.8	F 0.1

3+09 ⁵⁰ BC Haines at Pac. Beh. Dr. 49.93 7.04 12 C 5.8

49.43 7.54 76 F 0.1

0+10 BC Haines

42.53	42.03
957	1007
<u>77</u>	<u>93</u>
C 1.9	C 0.8

2+65⁸

48.84 8.13 21 C 6.0

48.34 8.63 88 F 0.2

BM

8.62

52.10 π

43.48

56.97 π

Oct 4, 1950

Reed St. Storm Drain

Alley Blk 270

8151L

see pg 17-21

Reed Ave. to the East

34

1+4775 Catch Basin

4771 Top Catch Basin	4771 F.L.
39.99	37.00
7.72	1.71
<u>720</u>	<u>720</u>
C 0.52	C 3.51

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NOV 27 1950

1+1464 EC

4771
36.77
10.94
<u>6.77</u>
C 4.17

1+52 curb Inlet

4765 F.L.
35.64
11.97
<u>5.92</u>
C 6.05

C = 11.47 $\frac{1}{2}$ - 2.22
10' dia. I.S.

0+98 EC Lt.

4771
36.68
11.03
<u>6.12</u>
C 4.91

1+00

47.65
35.32
12.33
<u>4.45</u>
C 7.88

0+49

4771
36.34
11.37
<u>3.00</u>
C 8.37

0+50

47.65
34.97
12.68
<u>3.46</u>
C 9.22

0+10

36.07

C 10.03

cleanout
0+00 = 10+43.12

34.98
30" \Rightarrow C = 11.49

36.00
<u>3.98</u>
1.02
C = 10.47

cleanout
0+00 = 11+87.11

34.12
30" \Rightarrow C = 10.87

34.62
C = 10.37

See pg 17 & 21

35° 47.65A

44.15

BM

3.56

47.71A

44.15 $\frac{1}{2}$ Inlet

Zigrahani & Reed

Reed St. Storm Drain
Cont'd From Page 21

See page 29

NWBP
For End Dr
&
Gresham } 2104

	(5' BK) 28.97	2859 T	
	Break 21.70	End 21.80	
	6.27	6.79	
	6.27	5.88	
Cb. N.E. Cor. Pac Beach & Gresham	C 0.42	C 0.91	
30+50		11.26	
		16.03	
		6.53	33+50
End cb. on Gresham (EC)	21.30		6.70
	5.57		20.99
	5.24		5.29
	C 0.33	C 9.90	C 15.70
Begin. of cb. transition	21.14		
	5.73		
	576.51st		

	Top cb.	FL. 18" Pipe	
	21.19	15.50	
	5.68	11.87	33+00
	5.38	5.28	
For cb inlet only 14.03	C 0.40	C 6.09	C 14.85

BM 583 26.87 T	21.04 N.W. B.P. Gresham & Pac. Beach Dr.		
	Top cb.	In 30" out 36" 18" Pipe	
	21.75	12.47 12.00 15.00	
		15.22 15.69 12.69	
		6.66 6.66 6.66	32+50
		C 8.56 C 9.03 C 6.03	8.22
			19.47
			4.99
			C 14.48

		12.62	
		15.07	
		4.01	32+00
		C 11.06	
BM	6.65 27.69 T	21.04 N.W. B.P. Gresham & Pac. Beach Drive	8.98
			18.71
			4.94
			C 13.77

check	7.52	21.08 = 21.04	
		12.80	
		15.80	31+50
		4.78	
		C 11.02	

		13.25	
		15.35	
		4.27	31+00
		C 11.08	
			10.50
			17.19
			4.91
			C 12.28

2860 X

Roberts
Cota
Moore
Clark
W.D. 31568
Oct 13, 1950

Curb Grades Hornblend
Cass to Dawes

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1+25	23.56 571 exist cb.	22.84 556 579 F0.23 ✓	24.23 5.04 5.14 F-0.10 ✓	23.59 4.81 4.94 F0.13 ✓
1+00	23.45	22.72 5.68 6.09 F-0.41 ✓	24.12 5.15 5.22 F0.09 ✓	23.47 4.93 5.22 F0.29 ✓
0+75	23.34	22.59 5.81 6.30 F-0.49 ✓	24.00 5.27 5.28 F0.01 ✓	23.34 5.06 5.19 F0.13 ✓
0+50 End exist ch on Rt.	23.23	22.47 exist cb. 6.03	24.00 5.38 5.46 F-0.08 ✓	23.22 5.18 5.55 F0.37 ✓
0+30 BRK	23.14	22.37	24.27 23.78 5.49 5.50 F-0.01 ✓	23.09 5.31 5.57 F0.26 ✓
Pl. 0+00 Cass	23.00	22.22	29.27 23.67 5.60 5.81 F-0.21 ✓	22.97 5.43 5.99 F-0.56 ✓
F.B.M.	1.64	28.40 X Rt	29.27 X Lt	28.40 X Rt
T.B.M.	2.51	29.27 X Lt	26.76	Tack L.S. # 2001 N.E. Hornblend & Dawes

26.76 Tack Pl. Hornblend
of Dawes
N.E. Cor.

Hornblend Cont.

Cass to Dawes
Cb. Grades

North (Lt)

South (Rt)

37

	Lt (North)	Rt. (South)		
			0+50	27.27
				26.42 7.76 7.86 F 0.10 ✓
4+25	24.89 A 38 A 43 F-0.05 ✓	24.34 A 06 A 04 C 0.02 ✓	0+25	26.94
				26.10 8.08 8.17 F 0.09 ✓
4+00	24.78 A 49 A 80 F 0.31 ✓	24.22 A 18 A 41 F 0.23 ✓	TBM 7.02 34.18 RT BC 0+15 Rt Dawes 0+10 Lt	26.76 26.74 28.40 T 25.90 2.50 2.41 C 0.09 ✓
3+75	24.67 A 68 A 93 F 0.33 ✓	24.09 A 31 A 60 F 0.29 ✓	TBM 8.12 34.88 RT 1.01 0+10 Lt	26.76 Tack 6.5 #2001 N.E. Hornblend & Dawes
3+50	24.56 A 71 505 F-0.34 ✓	23.97 A 45 504 F 0.61 ✓	PL. 3200 Dawes	25.25 A 02 3.33 C 0.69 ✓
3+25	24.45 A 82 5.26 F 0.44 ✓	23.84 A 56 A 97 F 0.41 ✓	4+75	25.12 A 15 3.93 C 0.22 ✓
3+00	24.34 A 93 5.03 F-0.10 ✓	23.72 A 68 5.04 F 0.36 ✓	4+50	25.00 A 27 A 25 C 0.02 ✓
	<u>29.27 Lt.</u>	<u>28.40 Rt.</u>	<u>29.27 Lt.</u>	<u>28.40 Rt.</u>

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Hornblend Cont.

Dunes to Everts
cb. stakes

38

North (Lt)

South (Rt)

North (Lt)

South (Rt)

29.25

5.23 271st. 16.

28.34

58A

588

F 0.04 ✓

3+50

31.23

3.65

3.84

F 0.19 ✓

30.26

3.92

3.92

Grade ✓

1475

28.92

28.02

6.16

6.16

Grade 1

3+25

30.90

3.98

4.27

F 0.29 ✓

29.94

4.24

4.23

C 0.01 ✓

1450

28.59

27.70

6.48

6.37

C 0.11 ✓

3+00

30.57

4.31

4.91

F 0.00 ✓

29.62

4.56

4.63

F 0.07 ✓

1425

28.26

27.38

6.80

6.77

C 0.03 ✓

2+75

30.24

4.64

4.91

F 0.29 ✓

29.30

4.88

5.06

F 0.18 ✓

1400

27.93

27.06

7.12

7.24

F 0.12 ✓

2+50

29.91

4.97

5.31

F 0.34 ✓

28.98

5.20

5.28

F 0.08 ✓

0+75

27.60

26.74

7.44

7.50

F 0.06 ✓

2+25

29.58

5.30

5.53

F 0.23 ✓

28.66

5.52

5.62

F 0.10 ✓

π 34.88 Lt.

34.18 Rt.

π 34.88 Lt.

34.18 Rt.

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Hornblend Cont.

Dances to Events
 cb. Grades

	lt. (North)	rt. (South)		North (lt)	South (rt)
4490 BC Events	33.10 1.78 2.22 F 0.38 ✓	32.10 2.08 2.21 F 0.13 ✓	#1	34.0 1.48 1.42 C 0.06 ✓	33.27 9.50 9.01 C 0.49 ✓
4475	32.88 2.00 2.47 F 0.47 ✓	31.96 2.32 2.59 F 0.07 ✓	#2	33.92 0.96 1.37 F 0.41 ✓	33.10 9.67 9.58 C 0.09 ✓
4450	32.55 2.33 2.59 F 0.26 ✓	31.54 2.64 2.91 F 0.07 ✓	#3	33.78 0.90 1.80 C 0.10 ✓	32.93 9.84 9.22 C 0.62 ✓
				T.P. 10.39 - 12.77 RT 1.80 32.38	
4425	32.22 2.66 2.83 F 0.17 ✓	31.22 2.96 2.96 Grade ✓	#3 PL Events	33.30 1.58 1.41 F 0.13 ✓	32.38 1.80 1.80 Grade ✓
4400	31.89 2.99 3.08 F 0.09 ✓	30.90 3.28 3.10 C 0.18 ✓	#2	33.24 1.60 2.08 F 0.44 ✓	32.36 1.82 2.05 F 0.23 ✓
3475	31.56 3.32 3.43 F 0.11 ✓	30.58 3.60 3.58 C 0.22 ✓	#1	33.17 1.71 2.19 F 0.48 ✓	32.23 1.95 2.12 F 0.17 ✓

π 34.88 lt.

34.18 T RT.

π 34.88 lt.

34.18 T RT.

Hornblend Cont

Exerts to Fanuel
Cb. Grades

No. (Lt.)

So. (RT)

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No. (Lt.)

So. (RT)

40.

1425

36.27	35.52
7.00	7.25
7.00	7.13
Grade ✓	C 0.12 ✓

2780 PVC

39.13	38.58
4.1A	4.39
5.11	5.52
F 0.97 ✓	F 1.13 ✓

1400

35.81	35.06
7.46	7.71
7.36	7.62
C-0.10 ✓	C 0.09 ✓

2750

38.57	37.82
4.70	4.95
2.76	3.00
F-0.06 ✓	F 0.05 ✓

0775

35.35	34.60
7.92	8.17
7.77	8.30
C-0.15 ✓	F 0.13 ✓

2725

38.11	37.36
5.16	5.41
5.25	5.17
F-0.09 ✓	C 0.24 ✓

0750

34.89	34.14
8.38	8.63
8.30	8.46
C-0.08 ✓	C 0.17 ✓

2700

37.65	36.90
5.62	5.87
5.74	5.56
F-0.12 ✓	C 0.31 ✓

0745

34.43	33.68
8.84	9.09
8.87	8.87
F 0.05 ✓	C 0.22 ✓

1775

37.19	36.44
6.08	6.33
6.20	6.17
F-0.12 ✓	C 0.16 ✓

TP 9:40 1327 Lt. 1.01

33.87

BC 0710 Exerts
Hornblend

34.15	33.40
0.73	0.37
1.01	0.19
F 0.28 ✓	C 0.18 ✓

1750

36.73	35.98
C. 54	6.79
6.60	6.69
F 0.06 ✓	C 0.10 ✓

1327 Lt

1277 RT

34.88 Lt

32.77 RT

Hornblend Cont.

Events to Fanuel
- cb. Grades

No. (L)

So. (R)

check

No. (L)

41
Horn: & Fanuel
NW 7' = T
A1.45 = 41.43

4725
40.37
2.90
2.75

C 0.15 ✓

39.65
3.12
3.28

F 0.16 ✓

0+20

12.21

41.32
6.93
7.21

F 0.28

4+00
40.20
3.07
2.87

C - 0.25 ✓

39.48
3.29
3.29

Grade ✓

0+00 E. Pl. Fanuel st

70.64

3+75
40.03
3.24
2.93

C - 0.31 ✓

39.30
3.47
3.32

C 0.15 ✓

B.M. 6.82 48.25 T 41.43

132 41.45 →
NW 4' track
Hornblend Fanuel
= 41.43

3+50
39.86
3.41
3.32

C - 0.09 ✓

39.12
3.65
3.51

C 0.14 ✓

5+00 Exist
7.1. Fanuel 40.89
238

221

40.20
Exist cb. 2.20

3+20 EVC
39.66
3.61
3.72

F 0.11 ✓

38.91
3.86
3.87

F 0.01 ✓

4+80

40.71
2.56
2.63

F - 0.07 ✓

40.00
2.76
2.83

F 0.07 ✓

3+00
39.45
3.82
4.09

F 0.27 ✓

38.70
4.07
4.30

F 0.23 ✓

4+50

40.54
2.73
2.83

F 0.10 ✓

39.93
2.94
3.26

F 0.32 ✓

43.27 T L

42.77 T R

T 43.27 L

42.77 T R

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Hornblend Cont.

Faniel to Gresham
Cb. Grades

42

	No. (L)	So. (R)	No. (L)	So. (R)
1+50	42.98 5.27 <u>5.44</u> F 0.17	42.05 6.30 <u>6.32</u> F 0.02	3+00 43.87 4.38 <u>4.61</u> F 0.23	42.89 5.36 <u>5.25</u> C 0.11
1+74 ⁵⁰ end crust. Cb. on North	42.83 5.42 <u>5.31</u>	41.90 6.35 <u>6.22</u> C 0.13	2+75 43.72 1.53 <u>4.85</u> F 0.32	42.75 5.50 <u>5.20</u> C 0.30
1+00		41.76 6.89 <u>6.67</u> F 0.12	2+50 43.57 4.68 <u>4.89</u> F 0.31	42.61 5.64 <u>5.67</u> F 0.03
0+75		41.62 6.63 <u>7.24</u> F 0.61	2+25 43.43 1.82 <u>4.94</u> F 0.12	42.47 5.78 <u>6.05</u> F 0.27
0+60		41.54 6.71 <u>7.40</u> F 0.69	2+00 43.28 4.97 <u>5.09</u> F 0.12	42.33 5.92 <u>6.46</u> F 0.54
0+40 Brk.	42.33	41.43 6.82 <u>7.04</u> F 0.22	1+75 43.13 5.12 <u>5.34</u> F 0.22	42.19 6.06 <u>6.06</u> Grade
	48.25A		48.25A	

Hornblend Cont.

#3

Faniel to Gresham
Cb. Grades

	No. (LH)	So. (RH)		No. (LH)	So. (RH)
A+30	15.24 3.01 <u>3.69</u> F 0.68	44.44 3.81 <u>3.71</u> F 0.10	5	#3 ^{PL} 47.31 0.94 <u>1.32</u> F 0.38	46.26 1.99 <u>1.40</u> C 0.29
A+10 E.V.C.	44.82 3.43 <u>3.67</u> F 0.21	43.92 4.33 <u>4.27</u> C 0.06		#2 47.07 1.18 <u>1.74</u> F 0.56	46.29 1.96 <u>2.40</u> F 0.44
3+90	44.48 3.77 <u>4.18</u> F 0.41	43.50 4.75 <u>4.54</u> C 0.21		#1 46.75 1.50 <u>1.83</u> F 0.33	46.19 2.06 <u>2.32</u> F 0.26
3+70 B.V.C.	44.28 3.77 <u>4.25</u> F 0.28	43.29 4.76 <u>4.87</u> C 0.09		A+90 B.C. 46.50 1.75 <u>1.82</u> Hornblend of Gresham F 0.07	46.00 2.25 <u>2.72</u> F 0.47
3+50	44.17 4.08 <u>4.22</u> F 0.14	43.17 5.08 <u>5.06</u> C 0.02		A+70 46.08 2.17 <u>2.15</u> C 0.02	45.48 2.77 <u>2.95</u> F 0.18
3+25	44.02 4.23 <u>4.41</u> F 0.18	43.03 5.22 <u>5.08</u> C 0.14		A+50 45.66 2.57 <u>2.61</u> F 0.02	44.96 3.29 <u>3.05</u> C 0.24
	48.25T			48.25T	

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Hornblend Cont.

Gresham to Haines
cb. Grades

47

No. (L)

So. (RT)

No. (L)

So. (RT)

$$\begin{array}{r} 49.15 \\ 7.55 \\ 7.83 \\ \hline F 0.28 \end{array}$$

$$\begin{array}{r} 48.65 \\ 8.05 \\ 8.87 \\ \hline F 0.82 \end{array}$$

$$\begin{array}{r} 1+80 \\ 52.38 \\ 4.32 \\ 4.39 \\ \hline F 0.07 \end{array}$$

$$\begin{array}{r} 51.88 \\ 4.82 \\ 4.50 \\ \hline C 0.32 \end{array}$$

0+25

$$\begin{array}{r} 48.62 \\ 8.08 \\ 8.25 \\ \hline F 0.17 \end{array}$$

$$\begin{array}{r} 48.12 \\ 8.58 \\ 7.69 \\ \hline C 0.91 \end{array}$$

$$\begin{array}{r} 1+60 \\ 51.70 \\ 5.00 \\ 5.31 \\ \hline F 0.31 \end{array}$$

$$\begin{array}{r} 51.20 \\ 5.50 \\ 5.36 \\ \hline C 0.14 \end{array}$$
0+10 BC Hornblend
9 Gresham
$$\begin{array}{r} 48.30 \\ 8.40 \\ 8.65 \\ \hline F 0.25 \end{array}$$

$$\begin{array}{r} 47.80 \\ 8.70 \\ 8.30 \\ \hline C 0.60 \end{array}$$

$$\begin{array}{r} 1+40 \\ 51.12 \\ 5.58 \\ 6.11 \\ \hline F 0.53 \end{array}$$

$$\begin{array}{r} 50.62 \\ 6.08 \\ 6.23 \\ \hline F 0.15 \end{array}$$

1

$$\begin{array}{r} 48.08 \\ 8.63 \\ 8.85 \\ \hline F 0.23 \end{array}$$

$$\begin{array}{r} 47.53 \\ 7.17 \\ 8.37 \\ \hline C 0.80 \end{array}$$

$$\begin{array}{r} 1+20 PVC \\ 50.65 \\ 6.05 \\ 6.34 \\ \hline F 0.29 \end{array}$$

$$\begin{array}{r} 50.15 \\ 6.55 \\ 6.13 \\ \hline C 0.42 \end{array}$$

2

$$\begin{array}{r} 47.90 \\ 8.80 \\ 8.95 \\ \hline F 0.15 \end{array}$$

$$\begin{array}{r} 47.27 \\ 7.43 \\ 7.83 \\ \hline F 0.40 \end{array}$$

$$\begin{array}{r} 1+00 \\ 50.32 \\ 6.48 \\ 6.82 \\ \hline F 0.34 \end{array}$$

$$\begin{array}{r} 49.72 \\ 6.98 \\ 6.78 \\ \hline C 0.20 \end{array}$$

3 PL

$$\begin{array}{r} 47.88 \\ 8.82 \\ 7.70 \\ \hline C 1.12 \end{array}$$

$$\begin{array}{r} 47.08 \\ 7.62 \\ 10.11 \\ \hline F 0.47 \end{array}$$

$$\begin{array}{r} 0+75 \\ 49.69 \\ 7.01 \\ 7.55 \\ \hline F 0.24 \end{array}$$

$$\begin{array}{r} 49.19 \\ 7.51 \\ 7.04 \\ \hline C 0.47 \end{array}$$

T.P. 7.35 56.70T 0.90 47.35

56.70T

Hornblend. Cont.

Gresham to Haines
cb. Grades

Lt. (North)

Rt. (South)

Lt. (North)

Rt. (South)

3+25

58.37
8.77
8.25
F 0.16

57.87
9.29
8.97
C 0.32

A+65

67.16T
62.22
4.94
4.78
F 0.04

61.72
5.44
5.22
C 0.15

3+00

57.33
9.83
10.09
F 0.26

56.83
10.33
10.41
F 0.08

A+40

61.94
5.22
6.81
F 0.79

61.44
5.72
5.10
C 0.63

T.P. 11-16 67.16T 0.70 56.00

2+75

56.29
0.41
0.70
F 0.29

55.79
0.91
1.23
F 0.32

A+20

61.64
5.32
5.70
F 0.18

61.14
6.02
5.80
C 0.42

2+50

55.25
1.55
1.87
F 0.32

54.75
1.95
2.22
F 0.27

A+00

61.12
6.04
6.26
F 0.22

60.70
6.46
6.65
F 0.19

2+25

54.31
2.49
2.75
F 0.26

53.71
2.99
2.77
C 0.32

3+80

60.59
6.57
7.35
F 0.98

60.09
7.07
6.96
C 0.11

2+00 F.V.C.

53.17
3.53
3.91
F 0.38

52.67
4.03
3.93
C 0.10

3+60 P.V.C.

59.84
7.32
8.22
F 0.97

59.34
7.82
7.17
C 0.65

67.16T

56.70T

Hornblend Cont.

Gresham to Haines
cb. Grades

North (L.I.)

South (R.I.)

North (L.I.)

South (R.I.)

#3
T.B.M. 335
T.B.M. check

62.44		61.69
3.98		4.53
3.95		4.49
<u>66.227</u>	62.87	<u>0.04</u>

1+00	61.98	61.47
	4.24	4.75
	<u>4.55</u>	<u>4.69</u>
	F0.01	0.06

#3 Pl. Hornblend
& Haines

66.227		66.227
62.57		61.47
3.45		4.75
3.24		4.70
<u>66.227</u>		<u>0.05</u>

0+75	62.07	61.56
	4.15	4.66
	<u>3.90</u>	<u>4.45</u>
	C0.25	0.31

A.E.C. East
A.E.C. West

66.227	EC West on left	66.227	67.167	66.227
62.70		61.70	61.40	61.20
3.52		4.70	4.70	5.02
3.01		3.02	3.02	4.97
<u>66.227</u>		<u>66.227</u>	<u>66.227</u>	<u>66.227</u>
EC East on left	C 1.51	3.60	3.60	EC East on left
		<u>0.58</u>	<u>0.58</u>	<u>0.05</u>
		EC West on left	EC West on left	

0+50	62.16	61.65
	4.06	4.57
	<u>4.00</u>	<u>4.42</u>
	C0.06	0.15

#3 Pl. Hornblend
& Haines

66.227		67.167
63.03		61.92
3.19		5.24
4.09		4.09
<u>66.227</u>		<u>0.15</u>

#2

66.227		62.08
62.83		5.08
3.39		4.71
4.33		<u>4.71</u>
<u>66.227</u>		<u>0.97</u>

0+25	62.25	61.74
	3.97	4.48
	<u>3.96</u>	<u>4.31</u>
	C0.01	0.17

#1

62.63		62.08
4.53		5.08
4.74		5.14
<u>66.227</u>		<u>0.06</u>

0+10 BC	62.30	61.80
Hornblend	3.92	4.42
& Haines	4.04	4.35
	<u>4.04</u>	<u>4.35</u>
	F0.12	C 2.07

A+90 BC

62.50		62.00
4.66		5.16
4.56		4.99
<u>66.227</u>		<u>0.17</u>

#1	62.34	61.80
	3.88	4.42
	4.15	4.41
	<u>4.15</u>	<u>4.41</u>
	F0.27	0.01

67.167

66.227

Hornbland Cont.

Haines to Ingraham
cb. GradesINDEVTN
APP. 27 1951

	North (L.A.)	South (R.A.)	North (L.A.)	South (R.A.)
2150	61.44 4.78 4.78 F 0.20	60.94 5.28 5.25 C 0.23	4+00 60.90 5.32 5.26 F 0.14	60.41 5.81 6.24 F 0.43
2125	61.53 4.69 4.98 F 0.29	61.02 5.19 5.54 F 0.35	3+75 60.99 5.23 5.57 F 0.34	60.50 5.72 5.69 C 0.03
2100	61.62 4.60 5.10 F 0.50	61.12 5.10 5.43 F 0.33	3+50 61.08 5.14 5.38 F 0.24	60.59 5.63 5.71 F 0.08
1+75	61.71 4.51 4.97 F 0.46	61.21 5.01 5.41 F 0.40	3+25 61.17 5.05 5.61 F 0.56	60.68 5.54 5.38 C 0.16
1+50	61.80 4.42 4.66 F 0.34	61.29 4.93 5.25 F 0.32	3+00 61.26 4.96 5.19 F 0.23	60.77 5.45 5.41 C 0.04
1+25	61.89 4.33 4.53 F 0.30	61.38 4.84 5.06 F 0.22	2+75 61.35 4.87 4.92 F 0.05	60.85 5.37 5.29 C 0.08

66.25A

66.25A

Hornblend Cont.

Haines to Ingraham
cb. Grades

18

	Wt	Rt.	H (North)	SEE PAGE 58	Rt. (South)
#12	60.52 570 583 F013	59.92 630 600 C 6.30	0+10 B.C. Hornblend 60.97 714 732 F 0.18		60.51 760 788 F 0.28
#7	60.55 567 612 F 0.45	60.00 622 499 C 1.23	#1 E. Pl. Ingraham 60.65 746 753 F 0.07		60.22 789 791 F 0.02
A+90 B.C. Hornblend & Ingraham	60.59 563 634 F 0.71	60.04 618 603 C 0.15	#2 60.40 771 790 F 0.19		60.08 803 799 C 0.04
A+70	60.66 556 597 F 0.41	60.12 610 572 C 0.38	#3 Pl. Hornblend 60.46 765 757 E. cb. line Ingraham C 0.08		60.00 811 807 C 0.04
A+50	60.74 548 547 C 0.01	60.22 600 544 C 0.56	B.M. 7.95 C 8.11A		60.16 & back Ingraham & Hornblend
A+25	60.82 580 547 F 0.09	60.31 591 572 C 0.19	B.M. check		60.17 & Ingraham & Hornblend LST = 60.16
	66.22A		#3 Pl. Hornblend 60.62 580 556 C 0.04		59.75 647 598 C 0.49
			66.22A		

REED ST. STORM DRAIN

Cont. from pg. 35

INVERT
 APR 27 1951

35+40 Grade break

188
 19.65
 2.68
 C 14.97

38+00

- 2.42
 12.64
 4.02
 C 8.62

35+00

3.35
 18.18
 1.64
 C 16.54

37+50

- 2.07
 12.29
 3.93
 C 8.36

34+50.92 & Cleanout #8

Top
 17.76
 3.77
 0.36
 C 3.41

FL
 5.16
 16.37
 8.36
 C 16.01

37+00 Grade Break

- 1.72
 11.94
 3.36
 C 8.58

T.P. 0.99 21.53 7.15 20.54 7' Man. LA

Palma & Gresham

T.P. 1.87 10.22 13.18 8.35

34+48.92 EC

5.19
 22.50
 6.41
 C 16.09

36+60

- 1.12
 22.65
 13.18
 C 9.47

34+14.76 Md. Pt. Curve

5.71
 21.98
 5.95
 C 16.83

36+20 Grade break

- 0.52
 22.05
 10.46
 C 11.59

33+80.60 BC

6.23
 21.46
 5.31
 C 16.15

36+00

6.08
 21.45
 9.52
 C 11.93

27.69

21.53

REED ST. STORM DRAIN

CONT.

39+31.81 EC.

-4.04
12.82
4.71
C 7.71

42+40.85 END

7.21X
-5.84
13.05
12.65
C 0.40

39+97.65 Mid Pt. Curve

T.P. 2.07 8.78X 3.51 6.71

-3.80
12.58
4.19
C 8.37

41+92.85 E.C.

7.21X
-5.50
12.71
9.00
C 3.91

39+63.48 BC.

-3.56
13.78
3.91
C 9.87

44+70.86 B.C.

T.B.M. 0.23 7.21X 6.98 N.E. 7' Lgt. La Palma of Fanuel

7.21X
-5.35
12.56
5.90
C 6.66

39+50

-3.47
13.69
4.15
C 9.54

41+55.43 Ch. Inlet.

T.B.M. 12.36 19.34 1.80 6.98 N.E. 7' Copper Tack La Palma of Fanuel

End 36" Pipe, Start 48" Pipe Top Ch.
-4.69
13.47
6.27
C 7.20
2.49

39+00

-3.12
13.34
4.13
C 9.19

41+00

-4.52
13.30
6.58
C 6.72

38+50

-2.77
12.99
4.13
C 8.86

40+65.91

-4.28
13.06
5.74
C 7.32

10.22X

8.78X

F.O.

Reed St. Storm Drain

Cont'd From Pg 17

51

2+00

37.90
43.54
C 5.64

4+44.4 BC

39.61
46.20
C 6.59

1+85.2

cleanout #2

37.80
43.35
C 5.52

4+42.9 cleanout #1 top →

542.17
15.54
8.70
8.81
C 0.66
39.60 F.L.
46.18
C 6.58

1+50

37.55
43.05
C 5.50

4+00

39.30
45.58
C 6.28

1+00

37.20
44.42
C 7.22

3+50

38.95
44.62
C 5.67

0+50

36.85
46.14
C 9.29

3+00

38.60
44.09
C 5.49

Thomas Cleanout #3
0+00 Ingraham

36.50
C 11.50

2+50

38.25
43.45
C 5.20

INDEXED

APR 27 1951

Reed St Storm Drain

6+35.66 curb Inlet #2

$$\begin{array}{r} 40.94 \\ 46.42 \\ \hline 87.36 \\ C 5.48 \end{array}$$

5+86.89 EC

$$\begin{array}{r} 40.61 \\ 46.24 \\ \hline 86.85 \\ C 5.63 \end{array}$$

5+58.4

$$\begin{array}{r} 40.41 \\ 46.29 \\ \hline 86.70 \\ C 5.88 \end{array}$$

5+29.9

$$\begin{array}{r} 40.21 \\ 46.43 \\ \hline 86.64 \\ C 6.24 \end{array}$$

5+01.4

$$\begin{array}{r} 40.01 \\ 46.48 \\ \hline 86.49 \\ C 6.47 \end{array}$$

4+72.9

$$\begin{array}{r} 39.81 \\ 46.45 \\ \hline 86.26 \\ C 6.64 \end{array}$$
Roberts
Cota
Moore
Clark
Oct. 24, 1950
W.P. 20610Stake Road St. Storm Drain
Inlets.

INDEXED

APR 27 1951

curb Inlet # 4 Rt. (South)

1+80.2 west

$$\begin{array}{r} 53.06 \\ 43.60 \\ 9.46 \\ \hline 100.00 \\ F 0.54 \end{array}$$

Thomas

1+90.2 East

$$\begin{array}{r} 43.60 \\ 9.46 \\ \hline 97.10 \\ F 0.25 \end{array}$$

curb Inlet # 5 Lt. (North)

1+85.2 west

$$\begin{array}{r} 53.06 \\ 44.80 \\ 8.96 \\ \hline 87.00 \\ C 0.26 \end{array}$$

Thomas

1+95.2 East

$$\begin{array}{r} 44.10 \\ 8.96 \\ \hline 87.00 \\ C 0.26 \end{array}$$
1+80.2
clean out #2
$$\begin{array}{r} 53.06 \\ 43.10 \\ 9.96 \\ \hline 100.00 \end{array}$$

check

T.P. 6.43 53.06 + 5.45 46.63

BM 0.24 52.08

F 0.04 122 51.84

$$\begin{array}{r} 51.84 \\ \hline \end{array}$$
 MWBP
Jewell
Grant

Reed St Storm Drain

Inlets Contd

Curb Inlet #2 Lt (west)

6+35.06 So.

Jewell

52.08
46.00
6.08
581
C 0.27

6+45.06 No.

46.00
6.08
578
C 0.30

Curb Inlet #6 Lt (North)

1735 From west
E.P.L. Inlet

Reed

1745 East

47.45
41.21
6.24
635
F 0.11

41.21
6.24
654
F 0.30

Curb Inlet #3 Rt (East)

6+35.06 So.

Jewell

52.08
46.00
6.08
624
F 0.16

6+45.06 No.

46.00
6.08
619
F 0.11

Curb Inlet #7 Rt (South)

1735 West

Reed

1745 East

47.45
41.52
5.93
529
C 0.64

41.52
5.93
488
C 1.05

BM 0.24

52.08

51.84 NW 1/4
Jewell
Road

BM 330

47.45

47.5 * West
Reed
Inlet

Cb. Stakes Evergreen,
Dickens to Emerson

55

INDEXED

Apr 27 1951

North (U.S.)

South (R.I.)

North (U.S.)

South (R.I.)

0+50
1988
548
570
F022

2400 So. Ph. Emerson
1997
537
540 EXIST ch.

#1
1942
544
624
F0.30 #1

0+25 B.C. Evergreen
20.00
5.36
5.48
F004

1475 B.C. Evergreen
1930
606
631
F025

#1
20.10
5.26
519
C0.07

#2
20.35
5.01
311
C1.90

1750
1942
594
631
F0.37

#3
21.25
4.11
2.61
C1.50

1725
1953
583
620
F0.37

#4
22.45
2.93
3.01
F008

1700
1965
571
610
F0.39

E.C. Dickens st.
23.50
1.86
2.21
F0.35

0+75
1976 ✓
560
586
F0.26

25.36 T

25.36 T

EXIST. PAVE.

EXIST. PAVE.

INDEXED
APR 27 1951

cb. stakes Evergreen,
Emerson to Fenelon

56

	North (ft.)	South (ft.)		South (ft.)
1425	23.36	22.82 1.07 <u>3.95</u> C-0.12		
1400	22.77 4.12 Exist cb. → 4.08	22.24 4.65 4.63 <u>C 0.02</u>		
0475	22.18 4.71 4.76 <u>F 0.05</u>	21.66 5.23 5.44 <u>F 0.21</u>		
0450	21.59 5.30 5.37 <u>F-0.07</u>	21.08 5.81 5.84 <u>F-0.05</u>	25.08 7400 So. Pl. Fenelon st. #1	2401 2.88 2.87 Exist cb. 24.10 2.77 3.15 #1 F 0.36 on Pl.
0425 BC. Evergreen #1	21.00 5.89 5.84 6.84 6.01 <u>C-0.03</u>	20.50 6.39 6.64 F-0.25 20.19 6.99 6.98 <u>F 0.19</u>	24.53 1475 BC. Evergreen	2406 3.89 3.22 F 0.33
0400 No. Pl. Emerson st.	20.96 5.93 5.90	19.66 7.23 Exist cb. → 7.21	23.95 1450	23.10 3.47 3.17 <u>C 0.02</u>
B.M. 8.39	26.897	6.86	18.50 7' Tack 5 1/4' Cor Emerson & Evergreen	

INDEXED

APP 27 1911

Cb. stakes Dickens st.
Evergreen to N.W. 1/4 line lot 3 BIK 10

T.P. 172 24.57 F 13.16 22.85 = 18.50
T.P. 0.39 35.51 F 12.87 35.12 (7' Tack 5 1/4 Cor.
Emerson & Evergreen)

check Lt. Rt.

1+50 Lt. 35.79 Rt. 35.10
1.02
1.00
C 0.02

1+30 Lt. 32.92 Rt. 32.30
3.82
A 21
F 0.39

1+10 Lt. 30.81 Rt. 30.30
5.82
6.22
F 0.42

0+90 Lt. 28.98 Rt. 28.80
7.52
7.93
F 0.61

0+50 Lt. 25.61 Rt. 25.53
10.59
11.26
F 0.67

0+25 E.C. Dickens Lt. 23.50 Rt. 23.50
12.62
12.97
F 0.35

T.B.M. 12.97 34.12 T.P. 23-15 E.C. cb. stake
N 1/4 Cor. Dickens
& Evergreen

T.B.M. 6.79 41.20
M.W. Cor.
Porch
3226 Dickens

2+00 Lt. 46.25 Rt. 45.50
2.49
3.21
F 0.72

1+90 Lt. 43.85 Rt. 43.10
4.89
5.09
F 0.60

1+70 Lt. 37.13 Rt. 38.70
7.29
7.40
F 0.11

T.P. 12.87 42.77 T.B.M. 1.00 35.12
See top of page
for check.

Cb. stakes Hornblend,
Ingham to Jewell

Cont. from pg. 48

INDEXED

APR 27 1971

1+50

North (Lt)
64.82
3.29
400
F0.71

South (Rt.)
63.88
1.25
3.84
C 0.39

2+75

North (Lt)
63.90
4.21
450
F0.29

South (Rt.)
62.90
5.21
505
C 0.16

1+30

64.55
3.54
411
F 0.55

68.30T out
63.64 68.64
1.66 4.77
1.88 0.57
F 0.22 F 0.09

2+50

64.22
3.89
402
F 0.13

63.22
4.89
449
C 0.40

1+10

64.14
3.97
458
F 0.61

63.29
4.82
532
F 0.50

2+25

64.54
3.57
369
F 0.12

68.30T out
63.54 63.54
4.77 4.37
5.28 3.89
F 0.52 C 0.88

0+90 P.V.C.

63.56
4.58
501
F 0.46

62.79
5.32
534
F 0.02

2+10 F.V.C.

64.73
3.38
317
C-0.21

63.73
4.38
367
C 0.71

0+55

62.13
5.68
645
F-0.77

61.79
6.32
6.32
Grade

1+90

64.91
3.20
332
F 0.12

68.30T out
63.92 63.92
4.58 4.19
4.55 3.81
F 0.17 C 0.48

0+20

61.50
6.81
680
C 0.01

60.94
7.14
7.68
F 0.54

1+70

64.94
3.17
363
F 0.46

63.96
4.15
392
C 0.23

68.11A68.11A

Cb. stakes Hornblend
Ingraham to Jewell

	North (ft.)	South (ft.)	North (ft.)	South (ft.)
A+25	61.98 6.13 6.25 F 0.12	60.98	#3 Bl. Hornblend 61.30 6.81 6.59 C-0.22	59.80 8.31 7.98 C-0.35
A+00	62.30 5.81 6.04 F 0.23	EXIST Cb. 61.30 6.81 6.77	#2 61.10 7.01 7.20 F 0.19	59.90 8.21 8.42 F 0.21
3+75	62.62 5.49 5.95 F 0.46	61.62 6.49 6.77 F 0.28	#1 61.04 7.07 7.16 F 0.09	60.00 8.11 7.98 C-0.13
3+50	62.94 5.17 5.83 F 0.66	61.94 6.17 6.24 F 0.07	A+90 B.C. Hornblend 61.13 6.98 7.33 F 0.35	60.13
3+25	63.26 4.85 5.26 F 0.41	62.26 5.85 5.79 C 0.06	A+75 61.33 6.78 6.95 F 0.17	60.33
3+00	63.58 4.53 5.15 F 0.62	62.58 5.53 5.34 C 0.19	A+50 61.65 6.46 6.51 F 0.05	60.65
	68.11A		68.11A	

WEDNESDAY
APR 27 1951

Cb. & Sidewalk Grades Hornblend
Jewell to Kendall - North only
Sidewalk Grades in Ink

NORTH ONLY

Curb

Curb

Sidewalk

0+30
60.30
281
1.92
C 0.89

1+10

0+25
60.30
419
407
C 0.12

1+00

0+10
61.01
235
157
0+10 BC Hornblend
61.22 (or 100)
214
124
C 0.14

South 59.69
380
480
East 475
366

58.38
616
535
C 0.86

0+00
61.22 (or 100)
214
124
C 0.14

61.30 (0-04)
2.06
1.24
C 0.82

0+90

59.79
3.57
3.33
C 0.24

1 Ely line Jewell
60.92
357
345
F 0.08

59.85
464
464
Grade

0+75
59.02
547
499
C 0.48

2
61.12
337
345
F 0.08

South 59.90
459
425
C 0.14

0+70

60.07
3.29
280
C 0.49

3 N'y line Hornblend
61.30
319
283
C - 0.36

South 59.82
467
453
C - 0.14

3.34 63.36A

60.02

SW 30° Rad. Pl.
Hornblend & Jewell

0+50
0+50

59.66
483
470
C 0.13

60.26
3.10
234
C 0.76

check
4.29 60.20

SW 7' tack Hornblend
& Jewell = 60.21

T.P. 347 64.49A

8.07 60.02

30° Rad. Pl. S.W. Cor.
Hornblend & Jewell

64.49A

cb. of Sidewalk Grades Hornblend-Cont.

Jewell to Kendall - North only.

Sidewalk Grades in Ink

81

	<u>curb</u>	<u>Sidewalk</u>	<u>Curbs</u>	<u>Sidewalk</u>
2+40	55.00 7.49 8.69 <u>C 0.80</u>		3+75	54.32 3.80 2.82 <u>C 0.98</u>
2+20	55.35 9.11 8.89 <u>C 0.25</u>		3+50	54.21 3.71 2.65 <u>C 1.06</u>
2+00 P.V.C	55.81 8.68 7.78 <u>C 0.90</u>		3+25	54.50 3.62 2.58 <u>C 1.04</u>
1+75	56.45 8.04 7.76 <u>C 0.28</u>		3+00	54.59 3.53 2.32 <u>C 1.21</u>
			T.P 2.39	58.12 X 8.76 55.73
1+50	57.09 7.40 6.63 <u>C 0.77</u>		2+80 E.V.C.	54.66 7.83 8.76 <u>C 1.07</u>
1+25	57.73 6.76 6.09 <u>C 0.67</u>		2+60	54.77 7.72 8.54 <u>C 1.18</u>
T.P Sidewalk only	3.48	58.29 X - 8.55		54.81
	64.49 X			

Cb. & Sidewalk Grades Hornblend - Cont.

Jewell to Kendall - North only

Sidewalk Grades in Ink

A+50
A+50

54.05
1.07
3.98
C 0.09

54.67
3.62
3.12
C 0.50

No.
N'ly line Hornblend 54.17
#3 N'ly line Hornblend 3.95
433
F 0.38

54.43
3.96
3.37
C 0.49

South
#3 52.82
5.30
5.04
C 0.26

A+30

55.05
3.24
2.99
C 0.26

#2
53.91
4.21
4.89
F 0.68

South 52.84
#2 3.28
5.13
C 0.15

A+25

54.14
3.98
3.33
C 0.65

W'ly line Kendall 53.82
#1 W'ly line Kendall 4.30
459
F 0.29

54.26
4.03
3.37
C 0.66

South 52.86
#1 5.26
5.19
C 0.09

A+10

55.32
2.97
2.89
C 0.08

A+90
A+90 B.C.
53.88
4.24
4.22
C 0.02

54.20
4.09
3.82
C 0.27

58.12 A
52.88
5.24
Exist → 52.6

A+00

54.23
3.89
3.12
C 0.77

A+75
53.96
4.16
4.16
Grade

3+90

55.33
2.76
2.70
2.8

A+70

54.36
3.93
3.46
C 0.47

58.29 A (Walk only)

58.12 A

58.12 A

Cb. & Sidewalk Grades Kendall st
Hornblend to 0+80 (0+00 = N¹/₄ Pl. Hornblend)
Sidewalk Grades in Ink (North Only)

Cbs. & Sidewalk Hornblend-Cont. 63
Kendall to Lamont

	West (L)	East (R)	No.	St.
				5443 N ¹ / ₄ line Hornblend
0+56	56.64 1.18 1.63 <u>F 0.15</u>	56.64 1.18 1.26 <u>C 0.02</u>	5427 4.02 3.95 0+10 C 0.07 53.95 4.17 0+10 B.C. Hornblend 3.97 C 0.20	52.95 5.17 Exist. 523
0+50	52.86 Meet 1.43 1.39	52.86 Meet 1.43 1.39	0+00 Rad pt. 54.28 E ¹ / ₄ line Kendall 4.01 3.16 C 0.85 3.80 4.32 #1 E ¹ / ₄ Pl. Kendall 4.00 C 0.32	58.29 A 54.43 N ¹ / ₄ line 3.86 Hornblend 3.16 C 0.70 52.91 5.21 5.17 C 0.04
0+33	55.57 2.55 2.84 <u>F 0.29</u>	55.57 2.55 2.71 <u>F 0.16</u>	#2 53.90 4.23 4.23 <u>F 0.01</u>	South 52.87 5.25 5.15 C 0.10
0+30	55.84 2.45 2.18 <u>C 0.27</u>	55.84 2.45 2.21 <u>C 0.24</u>	#3 N ¹ / ₄ line Hornblend 54.18 3.94 3.94 Grade	South 52.83 5.29 5.12 C 0.17
0+10	54.82 54.50 3.62 4.07 <u>F 0.45</u> C 0.58	54.82 54.50 3.62 4.23 <u>F 0.61</u> C 0.03		
0+10 E.C. Kendall			0+80 Exist Cb. 57.75 6.37 0.36	57.75 6.37 0.37
	58.29 A (Walk Only)			
	58.12 A		58.12 A	

Obs of Sidewalks Hornblend - Cont.
Kendall to Lamont

6A

No.

No.

0170

55.41
2.88
3.39
F-0.51

check

566

51.47-51.57

N.W. D.P.
Kendall & Grand

F.P.

44.7

57.13

546

52.66

0165

54.53
3.59
3.69
F0.10

1+60

Fust

55.38
2.7A
2.76

0160

55.24
3.05
3.10
F-0.05

1+40

55.38
2.84
2.86
F0.02

0137.5

54.24
3.88
3.88
Grade

1+20

55.11
3.01
2.88
C 0.13

0130

54.60
3.69
3.69
C 0.02

0192.5

54.82
3.30
2.98
C 0.32

0120

54.41
3.88
3.75
C 0.13

0180

55.47 Meel
2.82
2.87

58.12 A

58.29 A (Walk Only)

58.12 A

Cbs. Hornblend
 Kendall to Lamont - Cont

cb. & sidewalk Grades Hornblend 65
 Lamont to Morrell
 Sidewalk in Ink

No.

So.

No.

So.

EC Lamont exist
 60.00
 3.91
 3.90

59.56
 4.35
 4.36

0+10 BC, Hornblend Exist
 59.73
 4.18
 4.15

59.63
 4.28
 4.30

#3 N/4 Pl. Hornblend
 59.90
 4.01
 4.01
 Grade

63.91A
 59.82
 4.09 ✓
 4.08
 C-0.01.

#1

63.91
 59.82
 4.09
 4.01
 C-0.08

59.79
 4.12
 4.09
 C-0.03

#2 chisel cross
 59.80
 4.11
 3.97
 C-0.14

59.90
 4.01
 3.94
 C-0.07

#2

63.91
 59.86
 4.05
 3.95
 C-0.10

59.90
 4.01
 3.99
 C-0.02

#1
 59.70
 4.21
 3.98
 C-0.23

59.82
 4.09
 4.14
 F-0.05

#3 N/4 Pl. Lamont
 59.89
 4.02
 4.01
 C-0.01

59.75
 4.16
 4.18
 F-0.02

4+90 BC. Hornblend Exist
 4.33

59.67
 4.34
 4.17

EC, Lamont
 60.00
 3.91
 3.85

59.45
 4.46
 4.48

T.P. 3.95 63.91A 1.73 59.96

B.M. 11.32 61.69 58.37 N/4 B.P. Grand
 & Lamont

63.91A

Cb. of Sidawalk Grades Hornblend,
Wamont to Marrell

No.	So.	No.	So.
		3400	55.27 3.68 262 C 1.06
1480 P.V.C.	56.75 7.16 635 C-0.81	✓ 59.80T 55.79 4.01 4.14 F-0.13	2490 South Only 54.35 exist Cb.
1450	57.47 6.44 593 C 0.51	✓ 59.80T 56.51 3.29 3.28 C 0.01	2475 55.43 3.52 3.45 C 0.07
1475 South only			59.80 T 54.58 5.22 5.14 C 0.08
1420	58.19 5.92 546 C 0.26		2460 55.53 3.12 3.22 C 1.20
1415 ext. cb so. only		57.22 exist	59.80T 54.75 5.05 4.95 C 0.10
1400	58.60 5.59 521 C-0.10		2440 55.70 3.25 3.52 C 0.73
			59.80T 55.02 4.78 4.84 F 0.06
0480 Exist Cb	58.91	T.P. 252 58.95T	-7.48 56.43
			59.80T 55.37 4.43 4.45 F 0.02
		2400	56.32 7.59 663 C 0.94

cb. 8 Sidewalk Grades Hornblend,
Lament to Marcell
Sidewalk in Ink (North Only)

67

4400
4400

54.63
4.32
4.72
C 0.20

55.63
4.88
4.11
F 0.03

Wly Inc Marcell
#1

No.
53.95
3.00
4.77
C 0.23

54.31
540
355
C 1.855

So. 59.71A
53.00
5.95
5.70
C 0.38

54.27
5.44
3.55
C 1.89

Wly Inc Hornblend

Wly Inc Marcell

3475
3475

54.79
4.16
4.25
F 0.09

56.06
3.65
3.92
F 0.27

4490
4490 DC

54.00
4.95
4.83
C 0.12

54.32
5.39
4.17
C 1.22

53.07
5.88
5.96

3450
3450

54.95
4.00
2.90
C 1.10

56.48
3.23
3.13
C 0.10

4475

54.15
4.80
4.91
F 0.11

3430

56.75
2.96
3.11
F 0.15

4470

54.50
5.21
4.21
C 1.00

3425

55.11
3.84
3.93
F 0.09

4450
4450

54.31
4.64
4.63
C 0.01

54.78
4.93
4.45
C 0.48

3410

56.91 Mead
2.80
2.85

4425
4435

54.47
4.48
4.08
C 0.40

55.21
4.50
4.39
C 0.12

59.71A (Walk Only)

58.95A

58.95A

Nly line Hornblend

#3

54.17
 4.46
 298
 07.80

54.27
 59.71A
 54.31
 5.40
 355
 07.85

#2

53.98
 4.97
 153
 00.44

58.95A

INDEXED

APR 27 1951

c.b. Grades Haines
Grand to Thomas

69

East

West

East

West

0+60

55.44	54.64
54.58	54.66
F 0.86	0002

0+35

55.27	54.47
54.51	54.70
F 0.76	0023

0+10 BC

55.10	54.30
54.54	54.43
F 0.56	0013

#1

54.95	54.20
54.55	54.44
F 0.40	0024

#2

54.81	54.12
54.36	54.25
F 0.45	0013

#3

Grade Elev. 54.79 C ✓	54.03
Stake Elev. 55.60	54.09
08.81	0006

B.M. 7' mark
NE Corner HAINES
& THOMAS

56.04
DIRECT. ELEVATION - Rod

1+49¹⁰ 4⁰ Rad. Pt.

on Alley on st.	on Alley on st.
55.58 55.48	54.78 54.68
54.18 54.18	54.96 54.90
F 1.10	F 1.30
	0012
	0022

End Curb So

55.71	55.74	54.94
58.15	56.10	54.95
C 2.71	C 0.36	0001

knocked out

End Curb No.

55.83	55.83	55.03 ✓
57.74	57.67	54.58
C 1.91	C 1.94	F 0.45

1+21¹⁰ 4⁰ Rad. Pt.

on st. 55.64	on alley 55.67	on st. 54.84	on alley 54.87
54.41	54.41	55.11	55.11
F 1.23	F 1.26	0027	0024

1+05

55.69	54.89
54.82	54.99
F .87	0010

0+85 P.V.C.

55.62	54.82
54.90	54.76
F .72	0006

	East	West		East	West
#2	53.53 56.07 C 2.54	52.49 53.34 C085		52.50 52.27 F0.23	52.00 52.38 C038
#1	53.49 54.46 C0.97	52.63 53.63 C100	#1	52.69 52.43 F0.26	52.10 52.72 C062
2+60 ²⁰ B.C.	53.60 54.62 C 1.02	52.80 53.87 C187	#2	52.90 52.74 F0.16	52.00 52.46 C2.46
2+28.50	54.14 54.55 C0.41	53.34 54.10 C076	#3	53.10 55.58 C 2.48	51.84 53.91 C2.07
1+96 ⁸⁰	54.68 54.66 F0.02	53.88 54.28 C040			
# H.65 ¹⁰ E.V.C.	Grade Elev. 55.22 Sink Elev. 55.46 C0.24	54.42 54.54 C012 56.04 DIRECT GRADATION	#3	53.63 56.67 C 3.04	52.22 53.56 C134 56.04 DIRECT GRADATION.

	East	West		East	West
1+76 ⁵⁰	19.50 49.46 F 0.04	19.33 49.42 C 0.09	#3	47.56 47.96 C 0.40	47.35 47.94 C 0.59
1+48 ⁸⁰ 4 Rad. pt.	Alley st. 50.11. 50.00 49.87 49.87 F 0.24 F 0.13	Alley st. 49.88 49.78 49.85 49.85 F 0.03 C 0.07	#2	47.69 48.17 C 0.48	47.62 49.56 C 1.94
End cb.	No. 50.63 52.17 C 1.54	No. So. 50.36 50.04 52.27 51.26 51.54 C 1.01 C 1.22			
1+20.80 4 Rad. pt.	on st on Alley 50.36 50.47 51.03 51.03 C 0.67 C 0.56	on st on Alley 50.52 50.20 51.77 50.77 C 0.55 C 0.57	#1	47.83 48.31 C 0.48	47.83 48.40 C 0.57
1+00	50.88 50.59 F 0.29	50.56 50.67 C 0.11	2+59 ⁶⁰ B.C.	48.00 48.30 C 0.30	48.00 48.44 C 0.44
0+70	51.12 51.27 F 0.15	51.04 51.37 C 0.33	2+31 ⁹⁰	48.50 48.59 C 0.09	48.44 48.72 C 0.28
0+40	Grade Elev. 51.96 Stake Elev. 51.75 F 0.21	51.52 51.91 C 0.39	2+04 ²⁰	49.00 48.98 F 0.02	48.89 48.94 C 0.05
		DIRECT ELEVATION 56.04			DIRECT ELEVATION 56.04

	East	West		East	West
0+70	15.86 15.92 C006	15.74 15.97 C023	1+79 ²⁵	11.33 11.76 C043	13.99 11.40 C041
0+20	16.28 16.59 C031	16.22 16.83 C061	148 ²⁴ 1 st Rad Pt.	on st. 11.75 on Alley 11.85 11.85 11.85 C010 GRADE	on st. 11.48 on Alley 11.58 11.70 11.70 C022 C012
0+10 BC	16.70 16.90 C020	16.70 17.19 C079	End. Cb. 50	15.01 11.90 F011	11.71 15.09 C035
# 1	16.81 16.55 F026	16.88 17.93 C105	End. Cb. No.	15.29 15.40 C011	15.06 15.31 C025
# 2	16.93 17.08 C018	16.95 18.26 C131	1120 ²⁴ 1 st Rad Pt.	on st. 15.15 on alley 15.13 15.16 15.16 C001 C003	on st. 11.92 on Alley 11.90 15.00 15.00 C008 C010
# 3	Elev. Grade 17.00 Elev. Stake 17.54 C034	16.84 18.09 C125	1400	15.14 15.40 F004	15.26 15.33 C007
BM 7. Mon. N.E. Cor Reed & Haines		17.92 DIRTY GRAVING			

	East	West		East	West
#3	12.98 13.55 C060	12.24 12.41 C017	0+70	14.68 15.11 C 0.43	14.17 14.03 F 0.14

#2	12.98 13.42 C044	12.20 13.06 C066	0+10	13.94 14.42 C 0.48	13.43 13.46 C 0.03
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#1	13.08 13.39 C031	12.52 13.33 C078	0+10 BC	13.20 14.45 C 1.25	12.70 13.00 C 0.30
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2+59 ⁸⁹ BC	13.20 13.86 C066	12.70 13.50 C080	#1	13.00 14.67 C 1.67	12.44 12.94 C 0.50
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2+39 ⁸⁹ Break	13.18 14.11 C063	13.02 13.99 C097	#2	12.90 14.25 C 1.35	12.13 13.01 C 0.88
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2+09 ⁵⁷	13.91 Grade Elev. 14.37 Stake Elev. C046	13.51 14.08 C057	#3	13.00 13.95 C 0.95 Direct Elev. Rod	11.83 12.89 C 1.06
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BM 7' W. N. E. of
REED & HAINES

47.92
DIRECT ELEVATION.

BM 1.86 49.78

5.16 44.32 on S.E. 30° Rad. Pt.
Oliver & Haines

47.92

	East	West		East	West
1470	$\begin{array}{r} 47.14 \\ 1813 \\ \hline C 899 \end{array}$	$\begin{array}{r} 46.63 \\ 46.21 \\ \hline F 0.42 \end{array}$	#1	$\begin{array}{r} 51.02 \\ 51.27 \\ \hline C 0.25 \end{array}$	$\begin{array}{r} 50.17 \\ 49.58 \\ \hline F 0.59 \end{array}$
1439 ⁰⁰ 1° Cb. Rad.	$\begin{array}{r} \text{on st.} \quad \text{on Alley} \\ 46.38 \quad 46.31 \\ 46.89 \quad 46.89 \\ \hline C 0.51 \quad C 0.58 \end{array}$	$\begin{array}{r} \text{on st.} \quad \text{on Alley} \\ 45.87 \quad 45.81 \\ 45.24 \quad 45.24 \\ \hline F 0.63 \quad F 0.57 \end{array}$	$\begin{array}{r} 3+09 \text{ B.C. East} \\ 50.60 \\ 51.65 \\ \hline C 1.05 \end{array}$	$\begin{array}{r} 50.10 \\ 50.12 \\ \hline C 0.02 \end{array}$	
End Cb. Pl. (South)	$\begin{array}{r} 46.47 \\ 49.58 \\ \hline C 3.11 \end{array}$	$\begin{array}{r} 45.97 \\ 44.23 \\ \hline F 1.74 \end{array}$	2+90	$\begin{array}{r} 50.11 \\ 51.13 \\ \hline C 1.02 \end{array}$	$\begin{array}{r} 49.60 \\ 49.43 \\ \hline F 0.17 \end{array}$
End Cb. Pl. (North)	$\begin{array}{r} 45.99 \\ 47.76 \\ \hline C 1.77 \end{array}$	$\begin{array}{r} 46.48 \\ 44.07 \\ \hline F 2.41 \end{array}$	2+60	$\begin{array}{r} 49.86 \\ 51.11 \\ \hline C 1.25 \end{array}$	$\begin{array}{r} 48.83 \\ 48.54 \\ \hline F 0.29 \end{array}$
1411 ⁰⁰ 1° Rad. Pl.	$\begin{array}{r} \text{on st.} \quad \text{on Alley} \\ 45.29 \quad 45.82 \\ 46.03 \quad 46.03 \\ \hline C 0.34 \quad C 0.21 \end{array}$	$\begin{array}{r} \text{on st.} \quad \text{on Alley} \\ 45.18 \quad 45.32 \\ 44.57 \quad 44.57 \\ \hline F 0.61 \quad F 0.75 \end{array}$	2+30	$\begin{array}{r} 48.62 \\ 49.72 \\ \hline C 1.10 \end{array}$	$\begin{array}{r} 48.10 \\ 48.07 \\ \hline F 0.03 \end{array}$
1400	$\begin{array}{r} 45.42 \\ 45.75 \\ \hline C 0.33 \end{array}$	$\begin{array}{r} \text{Elev Grade} \text{ AA. } 90 \\ \text{Elev Stake} \text{ AA. } 46 \\ \hline F 0.44 \end{array}$	2+00	$\begin{array}{r} 47.88 \\ 49.01 \\ \hline C 1.13 \end{array}$	$\begin{array}{r} 47.73 \\ 47.35 \\ \hline F 0.38 \end{array}$

	East	West		East	West
# 2	$\begin{array}{r} 51.59 \\ 52.75 \\ \hline C 1.16 \end{array}$	$\begin{array}{r} 50.20 \\ 50.73 \\ \hline C 0.53 \end{array}$	1+00	$\begin{array}{r} 50.40 \\ 51.94 \\ \hline C 1.48 \end{array}$	$\begin{array}{r} 49.76 \\ 50.56 \\ \hline C 0.60 \end{array}$
EC Pacific Beach Dr.	$\begin{array}{r} 51.71 \\ 55.46 \\ \hline C 3.69 \end{array}$	$\begin{array}{r} 49.24 \\ 51.14 \\ \hline C 1.90 \end{array}$	0+80	$\begin{array}{r} 50.81 \\ 51.62 \\ \hline C 0.81 \end{array}$	$\begin{array}{r} 50.30 \\ 50.80 \\ \hline C 0.50 \end{array}$
End of Curb (50' Cors. Haines & Pac. Beach Dr.)	$\begin{array}{r} 51.87 \\ 56.05 \\ \hline C 4.18 \end{array}$	$\begin{array}{r} 49.09 \\ 51.05 \\ \hline C 1.96 \end{array}$	0+60	$\begin{array}{r} 51.09 \\ 49.82 \\ \hline F 1.26 \end{array}$	$\begin{array}{r} 50.58 \\ 50.69 \\ \hline C 0.11 \end{array}$
EC	$\begin{array}{r} 51.87 \\ 53.66 \\ \hline C 1.79 \end{array}$	$\begin{array}{r} 48.59 \\ 48.29 \\ \hline F 0.30 \end{array}$	0+40	$\begin{array}{r} 51.25 \\ 52.39 \\ \hline C 1.14 \end{array}$	$\begin{array}{r} 50.75 \\ 51.17 \\ \hline C 0.42 \end{array}$
#3	$\begin{array}{r} 51.60 \\ 52.76 \\ \hline C 1.16 \end{array}$	$\begin{array}{r} 49.35 \\ 49.00 \\ \hline F 0.35 \end{array}$	0+00 BC. (TP)	$\begin{array}{r} 51.50 \\ 52.58 \\ \hline C 1.08 \end{array}$	$\begin{array}{r} 51.00 \\ 51.70 TP \\ \hline C 0.70 \end{array}$
#2 TP	$\begin{array}{r} 51.30 \\ 51.96 \\ \hline C 0.66 \end{array}$	Grade Elev. 49.88 State Elev. 49.39 $\hline F 0.49$	# 1	$\begin{array}{r} 51.55 \\ 53.40 \\ \hline C 0.85 \end{array}$	$\begin{array}{r} 50.80 \\ 50.69 \\ \hline F 0.11 \end{array}$

Haines, Pacific Beach Drive to Fortuna
Cb. Grades

76

	East	West		East	West
2+70	$\frac{46.29}{45.72}$ F 0.57	$\frac{45.79}{45.77}$ F 0.02	2+50	$\frac{41.82}{41.40}$ F 0.42	$\frac{41.32}{42.10}$ C 0.78
2+40 T.P.	$\frac{47.03}{46.74}$ F 0.29	$\frac{46.53}{46.41}$ F 0.12	2+20 (T.P.)	$\frac{42.57}{42.69}$ C 0.10	$\frac{42.06}{43.17 \text{ T.P.}}$ C 1.11
2+10	$\frac{47.78}{47.14}$ F 0.64	$\frac{47.28}{47.10}$ C 0.12	3+90	$\frac{43.31}{44.63}$ C 1.32	$\frac{42.81}{43.67}$ C 0.86
1+80	$\frac{48.52}{48.72}$ C 0.20	$\frac{48.02}{48.25}$ C 0.23	3+60	$\frac{44.05}{44.68}$ C 0.63	$\frac{43.55}{43.33}$ F 0.22
1+50	$\frac{49.27}{49.49}$ C 0.22	$\frac{48.77}{49.03}$ C 0.26	3+30	$\frac{44.80}{45.15}$ C 0.35	$\frac{44.30}{44.84}$ C 0.54
1+20 E.V.C.	$\frac{50.01}{50.64}$ C 0.63	Grade Elev. 4957 State Elev. 5002 C 0.51	3+00	$\frac{45.84}{45.45}$ F 0.09	$\frac{45.04}{44.97}$ F 0.07

Cb. Grades Haines, Pacific Beach Dr. to Fortuna

Cb. Grades Haines, Fortuna to Roosevelt

77

T.P. 20th Rad. Pt. S.E. Cor. Haines & Fortuna Elev = 41.05

East

West

	East	West		East	West
#3	$\begin{array}{r} 40.00 \\ 20.96 \\ \hline 20.96 \end{array}$	$\begin{array}{r} 38.45 \\ 37.76 \\ \hline F \ 0.69 \end{array}$	0+60	$\begin{array}{r} 39.04 \\ 39.63 \\ \hline C \ 0.59 \end{array}$	$\begin{array}{r} 38.47 \\ 38.77 \\ \hline C \ 0.30 \end{array}$

#2	$\begin{array}{r} 39.90 \\ 20.38 \\ \hline C \ 0.48 \end{array}$	$\begin{array}{r} 38.91 \\ 37.40 \\ \hline F \ 1.51 \end{array}$	0+70	$\begin{array}{r} 39.17 \\ 39.90 \\ \hline C \ 0.73 \end{array}$	$\begin{array}{r} 38.61 \\ 38.90 \\ \hline C \ 0.29 \end{array}$
----	--	--	------	--	--

#1	$\begin{array}{r} 39.90 \\ 39.87 \\ \hline F \ 0.03 \end{array}$	$\begin{array}{r} 39.25 \\ 37.88 \\ \hline F \ 1.37 \end{array}$	0+102.5 BC	$\begin{array}{r} 39.29 \\ 40.81 \\ \hline C \ 1.52 \end{array}$	$\begin{array}{r} 38.74 \\ 39.19 \\ \hline C \ 0.45 \end{array}$
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5+25.64 BC	$\begin{array}{r} 40.06 \\ 40.21 \\ \hline C \ 0.15 \end{array}$	$\begin{array}{r} 39.56 \\ 38.90 \\ \hline F \ 0.66 \end{array}$	#1	$\begin{array}{r} 39.33 \\ 40.94 \\ \hline C \ 1.61 \end{array}$	$\begin{array}{r} 38.65 \\ 39.15 \\ \hline C \ 0.50 \end{array}$
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5+00	$\begin{array}{r} 40.59 \\ 40.53 \\ \hline F \ 0.06 \end{array}$	$\begin{array}{r} 40.09 \\ 39.97 \\ \hline F \ 0.12 \end{array}$	#2	$\begin{array}{r} 39.40 \\ 40.93 \\ \hline C \ 1.53 \end{array}$	$\begin{array}{r} 38.29 \\ 38.79 \\ \hline C \ 0.40 \end{array}$
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#80	$\begin{array}{r} 41.04 \\ 41.00 \\ \hline F \ 0.08 \end{array}$	$\begin{array}{r} 40.58 \\ 40.61 \\ \hline C \ 0.03 \end{array}$	#3	$\begin{array}{r} 39.57 \\ 41.28 \\ \hline C \ 1.77 \end{array}$	$\begin{array}{r} \text{Grade Elev. } 37.95 \\ \text{Stake Elev. } 38.58 \\ \hline C \ 0.63 \end{array}$
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T.B.M. 20th Rad. Pt. S.E. Cor. Haines & Fortuna Elev = 41.05

Direct Elev. Rod

Cb. Grades Haines, Fortuna to Roosevelt

	East	West		East	West
2+40	$\begin{array}{r} 38.23 \\ 39.14 \\ \hline C 0.91 \end{array}$	$\begin{array}{r} 37.66 \\ 37.31 \\ \hline F 0.35 \end{array}$	4+20	$\begin{array}{r} 37.72 \\ 38.66 \\ \hline C 1.24 \end{array}$	$\begin{array}{r} 36.84 \\ 36.65 \\ \hline F 0.19 \end{array}$
2+10	$\begin{array}{r} 38.36 \\ 39.43 \\ \hline C 1.07 \end{array}$	$\begin{array}{r} 37.79 \\ 37.45 \\ \hline F 0.34 \end{array}$	3+90	$\begin{array}{r} 37.55 \\ 38.78 \\ \hline C 1.23 \end{array}$	$\begin{array}{r} 36.98 \\ 36.52 \\ \hline F 0.46 \end{array}$
1+80 T.P.	$\begin{array}{r} 38.50 \\ 39.44 T.P. \\ \hline C 0.94 \end{array}$	$\begin{array}{r} 37.93 \\ 37.93 \\ \hline \text{Grade} \end{array}$	3+60	$\begin{array}{r} 37.69 \\ 39.16 \\ \hline C 1.47 \end{array}$	$\begin{array}{r} 37.12 \\ 36.62 \\ \hline F 0.50 \end{array}$
1+50	$\begin{array}{r} 38.63 \\ 39.28 \\ \hline C 0.65 \end{array}$	$\begin{array}{r} 38.07 \\ 38.21 \\ \hline C 0.14 \end{array}$	3+30	$\begin{array}{r} 37.82 \\ 39.81 \\ \hline C 1.99 \end{array}$	$\begin{array}{r} 37.26 \\ 36.78 \\ \hline F 0.48 \end{array}$
1+20	$\begin{array}{r} 38.77 \\ 39.35 \\ \hline C 0.58 \end{array}$	$\begin{array}{r} 38.20 \\ 38.46 \\ \hline C 0.26 \end{array}$	3+00	$\begin{array}{r} 37.96 \\ 38.89 \\ \hline C 0.93 \end{array}$	$\begin{array}{r} 37.39 \\ 36.98 \\ \hline F 0.41 \end{array}$
0+90	$\begin{array}{r} 38.90 \\ 39.34 \\ \hline C 0.44 \end{array}$	$\begin{array}{r} 38.34 \\ 38.55 \\ \hline C 0.21 \end{array}$	2+70	$\begin{array}{r} 38.09 \\ 39.19 \\ \hline C 1.10 \end{array}$	$\begin{array}{r} \text{Grade Elev. } 37.53 \\ \text{stake Elev. } 37.11 \\ \hline F 0.42 \end{array}$

Direct Elev. Rod

East

West

5+97.62 B.C.	36.60 36.18 <u>F 0.42</u>	36.01 39.25 <u>3.14</u>
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5+68.91	36.75 34.90 <u>C 0.15</u>	36.14 36
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5+40	36.88 37.18 <u>C 0.30</u>	36.27
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5+10	37.01 36.75 <u>F 0.26</u>	36.43
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4+80	37.15 37.55 <u>C 0.40</u>	36.56
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4+50	37.28 37.78 <u>C 0.26</u> C 0.66	Grade Elev. 36.70 Station
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Direct Elev. Rod

INDEXED
APR 27 1957

82
77
68

East

West

#1 End Ch.	36.60 36.11 <u>F 0.49</u>	36.00
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(cont. from front)

Index

Curb grades Haines, Oliver to Pacific Beach Dr. 73

579 " " " Pacific B. Dr to Fortuna 75

" " " Fortuna to Roosevelt 77

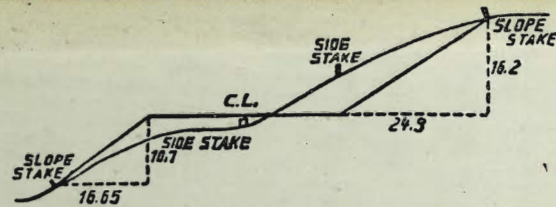
578

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575

574



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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