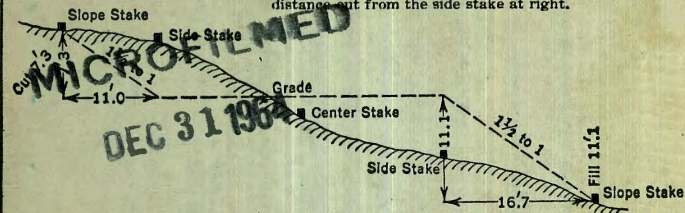


2116

DISTANCES FROM SIDE STAKES FOR CROSS-SECTIONING

Roadway of any Width. Side Slopes 1 1/2 to 1.

In the figure below: opposite 7 under "Cut or Fill" and under .3 read 11.0, the distance out from the side stake at left. Also, opposite 11 under "Cut or Fill" and under .1 read 16.7, the distance out from the side stake at right.



Cut or Fill	Distance out from Side or Shoulder Stake										Cut or Fill
	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	
0	0.0	0.2	0.3	0.5	0.6	0.8	0.9	1.1	1.2	1.4	0
1	1.5	1.7	1.8	2.0	2.1	2.3	2.4	2.6	2.7	2.9	1
2	3.0	3.2	3.3	3.5	3.6	3.8	3.9	4.1	4.2	4.4	2
3	4.5	4.7	4.8	5.0	5.1	5.3	5.4	5.6	5.7	5.9	3
4	6.0	6.2	6.3	6.5	6.6	6.8	6.9	7.1	7.2	7.4	4
5	7.5	7.7	7.8	8.0	8.1	8.3	8.4	8.6	8.7	8.9	5
6	9.0	9.2	9.3	9.5	9.6	9.8	9.9	10.1	10.2	10.4	6
7	10.5	10.7	10.8	11.0	11.1	11.3	11.4	11.6	11.7	11.9	7
8	12.0	12.2	12.3	12.5	12.6	12.8	12.9	13.1	13.2	13.4	8
9	13.5	13.7	13.8	14.0	14.1	14.3	14.4	14.6	14.7	14.9	9
10	15.0	15.2	15.3	15.5	15.6	15.8	15.9	16.1	16.2	16.4	10
11	16.5	16.7	16.8	17.0	17.1	17.3	17.4	17.6	17.7	17.9	11
12	18.0	18.2	18.3	18.5	18.6	18.8	18.9	19.1	19.2	19.4	12
13	19.5	19.7	19.8	20.0	20.1	20.3	20.4	20.6	20.7	20.9	13
14	21.0	21.2	21.3	21.5	21.6	21.8	21.9	22.1	22.2	22.4	14
15	22.5	22.7	22.8	23.0	23.1	23.3	23.4	23.6	23.7	23.9	15
16	24.0	24.2	24.3	24.5	24.6	24.8	24.9	25.1	25.2	25.4	16
17	25.5	25.7	25.8	26.0	26.1	26.3	26.4	26.6	26.7	26.9	17
18	27.0	27.2	27.3	27.5	27.6	27.8	27.9	28.1	28.2	28.4	18
19	28.5	28.7	28.8	29.0	29.1	29.3	29.4	29.6	29.7	29.9	19
20	30.0	30.2	30.3	30.5	30.6	30.8	30.9	31.1	31.2	31.4	20
21	31.5	31.7	31.8	32.0	32.1	32.3	32.4	32.6	32.7	32.9	21
22	33.0	33.2	33.3	33.5	33.6	33.8	33.9	34.1	34.2	34.4	22
23	34.5	34.7	34.8	35.0	35.1	35.3	35.4	35.6	35.7	35.9	23
24	36.0	36.2	36.3	36.5	36.6	36.8	36.9	37.1	37.2	37.4	24
25	37.5	37.7	37.8	38.0	38.1	38.3	38.4	38.6	38.7	38.9	25
26	39.0	39.2	39.3	39.5	39.6	39.8	39.9	40.1	40.2	40.4	26
27	40.5	40.7	40.8	41.0	41.1	41.3	41.4	41.6	41.7	41.9	27
28	42.0	42.2	42.3	42.5	42.6	42.8	42.9	43.1	43.2	43.4	28
29	43.5	43.7	43.8	44.0	44.1	44.3	44.4	44.6	44.7	44.9	29
30	45.0	45.2	45.3	45.5	45.6	45.8	45.9	46.1	46.2	46.4	30
31	46.5	46.7	46.8	47.0	47.1	47.3	47.4	47.6	47.7	47.9	31
32	48.0	48.2	48.3	48.5	48.6	48.8	48.9	49.1	49.2	49.4	32
33	49.5	49.7	49.8	50.0	50.1	50.3	50.4	50.6	50.7	50.9	33
34	51.0	51.2	51.3	51.5	51.6	51.8	51.9	52.1	52.2	52.4	34
35	52.5	52.7	52.8	53.0	53.1	53.3	53.4	53.6	53.7	53.9	35
36	54.0	54.2	54.3	54.5	54.6	54.8	54.9	55.1	55.2	55.4	36
37	55.5	55.7	55.8	56.0	56.1	56.3	56.4	56.6	56.7	56.9	37
38	57.0	57.2	57.3	57.5	57.6	57.8	57.9	58.1	58.2	58.4	38
39	58.5	58.7	58.8	59.0	59.1	59.3	59.4	59.6	59.7	59.9	39
40	60.0	60.2	60.3	60.5	60.6	60.8	60.9	61.1	61.2	61.4	40

KEUFFEL & ESSER CO., N. Y.

For Curve Tables see end of book.

The paper in this book No. 363A
is made of 50% high grade rag stock
with a WATER RESISTING surface sizing.

DIST

In the figure
from the side

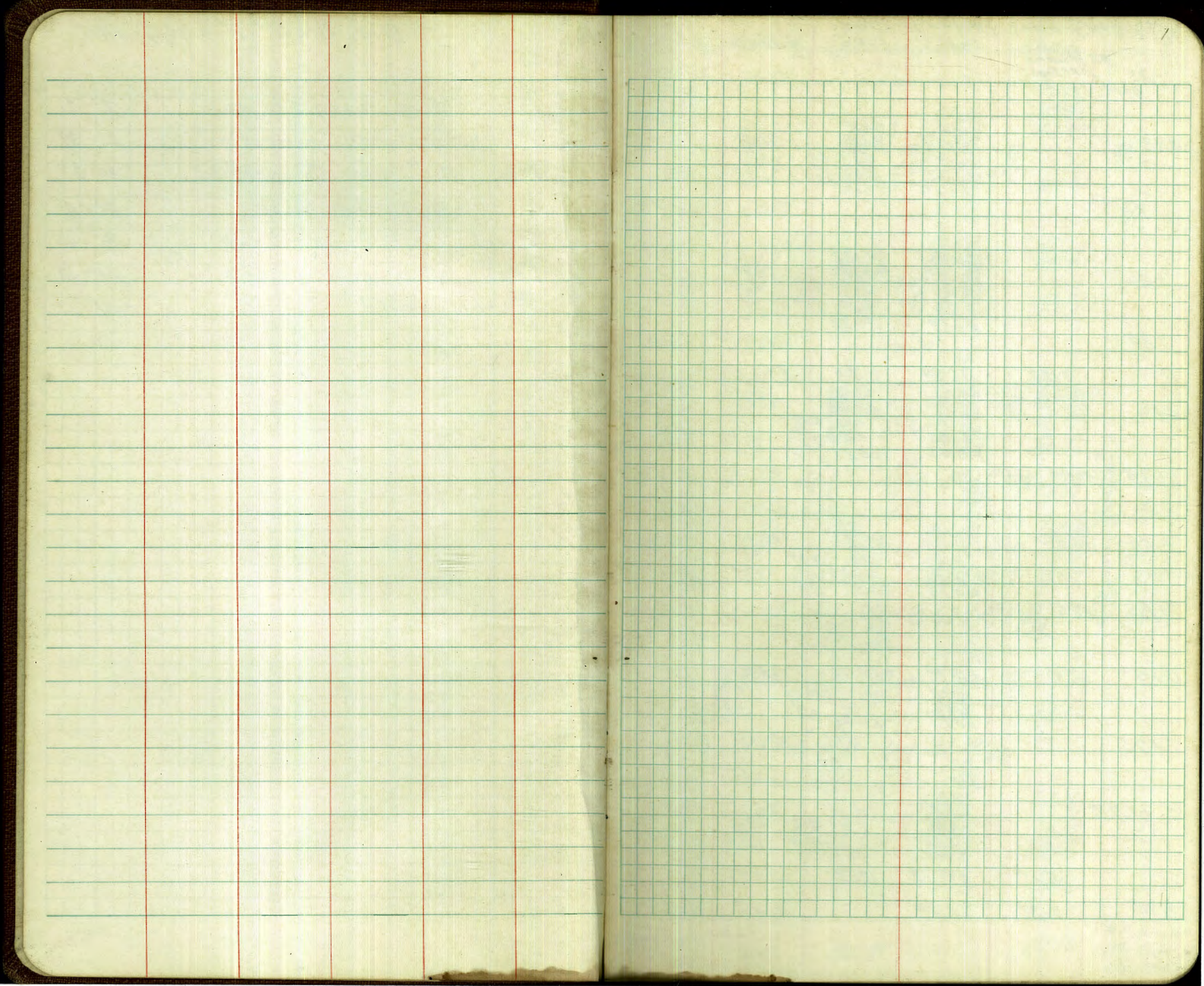
Slope

Cut or
Fill

0	0
1	1.5
2	3.0
3	4.5
4	6.0
5	7.5
6	9.0
7	10.5
8	12.0
9	13.5
10	15.0
11	16.5
12	18.0
13	19.5
14	21.0
15	22.5
16	24.0
17	25.5
18	27.0
19	28.5
20	30.0
21	31.5
22	33.0
23	34.5
24	36.0
25	37.5
26	39.0
27	40.5
28	42.0
29	43.5
30	45.0
31	46.5
32	48.0
33	49.5
34	51.0
35	52.5
36	54.0
37	55.5
38	57.0
39	58.5
40	60.0

Wabash Blvd. Sec H Finish Grader

Federal Blvd 10+57/8 to 50+0	2-21
North West Outer Connection	22-29
North East Outer Connection	30-35
North West Inner Loop	36-40
South West Inner Loop	41-45
South East Inner Loop	46-51
Access Road	52-55



HC #407
7541.13+83.91
BM 76.48
7.287
83.87

	Shdr	EP	Strip	Gutter
15+0	77.18	77.12	77.03	76.93
	4.71	4.77	4.77	4.86
	4.88	4.88	4.88	4.86
	FO.17.	FO.11.		

	Shdr	EP	Strip	Gutter
+50	76.03	75.86	75.60	75.34
	5.86	6.03	6.03	6.03
	5.93	5.93	5.93	5.93
	FO.07.	CO.10.		

	Shdr	EP	Strip	Gutter
14+0	74.88	74.60	74.18	73.75
	7.01	7.29	7.29	7.29
	7.14	7.14	7.14	7.14
	FO.13.	CO.15.99		

B.M. 5.48 76.41
 76.58
 57 75' HRP
 13+83.91 EC

	Shdr	EP	Strip	Gutter
+83.91 = Fou	74.51	74.19	74.36	73.14
EC	7.3	7.38	7.38	7.38
	7.52	7.52	7.52	7.52
	FO.20	CO.12		

5.27 81.89 10.05 76.52 73.12
 B.M. 0.48 86.57 86.09 F+83.91

	Shdr	EP	Strip	Gutter
13+50	73.90	73.50	72.91	72.32
	73.91	73.34	72.91	72.32
	6.65	3.05	3.05	3.05
	2.25	2.75	2.75	2.75
	CO.40	CO.80		

6972

Nov. 9-50
 H.S. 5003
 Gar bar
 Paper
 Pallen

	Shdr	EP	Strip	Gutter
	77.43	76.93	76.78	76.63
	1.16	7.11	7.11	5.26
	5.21	7.21	7.21	5.92
	FO.98	7.21	7.21	FO.66.

HC #407
 7541.13+83.91
 BM 76.41
 7.48
 83.87

	Shdr	EP	Strip	Gutter
	75.84	75.34	75.08	74.87
	6.05	6.55	8.81	9.07
	5.99	5.99	5.99	5.99
	FO.82		8.91	9.17

74.22

	Shdr	EP	Strip	Gutter
	74.25	73.75	73.33	72.90
	7.64	10.14	10.56	8.99
	8.11	8.11	8.11	8.11
	FO.47	10.69	10.69	FO.45

HC #407
 75.21

	Shdr	EP	Strip	Gutter
	73.71	73.34	73.12	72.43
	8.15	8.15	8.15	8.15
	8.54	8.54	8.54	8.54
	FO.37			FO.40

73.62 73.12 81.89
 0.66
 4.12
 FO.53

	Shdr	EP	Strip	Gutter
	72.88	72.16	71.73	71.14
	72.77	72.16	71.73	70.98
	1.10	5.48	4.07	5.41
	2.72	3.17	3.17	5.87
	FO.32			FO.26

6972

Finish Grades Federal Blvd.

	Stdr.	EP	Strip	Out
+14.50	R.			
+09.50				82.85 F0.75
17+0	AC. Startham 83.89 T	82.85 6.72 1.04 1.14	82.97 0.92 -10 1.02	83.09 0.80 0.73 0.73
+17.26	BC 0246	81.64 7.93	81.91 7.66	82.03 82.0 82.15
+1.50		81.15 8.43 7.59 00.83	81.42 8.15 7.59 06.56	81.54 2.35 2.47 2.57
TP	865	89.57	0.97	80.92
16+0		79.71 2.18 1.88 00.00	79.87 2.02 1.88 00.14	79.99 3.90 4.08 4.09
15+50		78.38 3.51 3.20 00.31	78.41 3.48 3.20 00.38	78.46 5.13 5.18 5.53

81.89

	Stdr.	EP	Strip	Out	FCb.	Out	Strip	EP	Stdr.
					83.90				4
					5.67 6.32 F0.65				BC. E. Lane 83.89 T
					82.39 5.98 6.83 F0.85	83.09	82.97 0.92 1.04 1.02	82.85 1.04 1.14 F0.40	82.45 1.72 7.12 7.12 0.0
					82.65 6.92 out	82.15	82.03 out	81.91 7.66	81.51 8.06
					82.16 7.41 8.33 F0.92	81.66 7.91 - 2.23 2.25	81.51 2.35 2.15 2.1	81.42 2.47 10 2.37 F0.47	81.02 8.15 8.55 8.62 F0.07
								89.57	
					80.60 1.29 1.73 F0.84	80.10 3.79	79.98 3.91 1.0 1.01	79.86 100 18 4.13 F0.40	79.46 2.03 2.43 0.0
					79.01 2.88 3.13 F0.85	78.51	78.39 5.56 5.66 5.73	78.27 3.61 4.08 F0.46	77.87 3.63 4.08 F0.06

81.89

Finish	Grades	Federal Blvd. Shdr.	F.P.	Strip	Gut.
+25					
	HC. H. Kant				
	89.57T				
21+0	88.71 93.17T	91.51 4.21. 4.63 FO.42.	90.23 4.79.284 4.62 CO.16.287 4.79	90.06 3.16 3.21	89.19
+75					
20+50		90.86 4.86. 5.02 FO.14.	90.28 5.34.279 5.06 CO.37.289 5.34	89.67 3.50 3.20	88.95
20+25					
+98.94	BC. Rt.	89.99 5.73. 5.67 CO.57.	89.63 6.09.384 5.06 CI.03.384 6.09	89.09 4.08 4.12	88.54
+75	IP	6.29	95.72	0.14	89.43
				27.50 38.14 19+50	
+50		88.99 0.58. 0.14 CO.74.	88.78 0.79.079 0.14 CO.65.087 0.79	88.40 1.17 1.16 1.27	88.02
+25					
19+0		87.82 1.75. 1.42 CO.32.	87.76 1.81. 1.22 CO.38. 1.81	87.55 2.02 2.10 2.13 1.91	87.33 2.24
		89.57			

Sheet 42
6

4 Cb.	Gut.	Strip	F.P.	Shdr	H.C. E. H. Kant
89.77 5.95 6.26 FO.25	89.27				89.57T 4.42 88.14 3.02 93.17T
89.69 203.603. 5.99 FO.91.700.	89.19.	88.32 4.85 4.93	87.45 2.27. 8.39 FO.06 8.27	86.87 2.85. 2.27 CO.56.	
89.60 6.12 6.14 FO.52	89.10.				
89.45 6.24.6.27. 7.18 FO.91.700.	88.95.	88.24 1.32 7.3 1.3	87.52 205.8.20. 20.0.12 2.5 F1.92 8.20	86.86 8.86. 10.12 F1.26.	
89.27 6.75 6.17 FO.19	88.77.				
89.04 6.68.6.68. 7.59 FO.91.700. FO.94.	88.54. 7.18	88.00 1.57 1.07 1.57	87.45 8.27 2.12 2.22	87.09 2.63 out	
			95.72		
88.57 105.1.05. 173.1.78 FO.88 FO.73.	88.02.	87.64 4.93 1.03 2.03	87.36 2.01. 2.71 FO.10. 2.31	86.86 2.71. 2.71 0.0.	
87.83 1.74.1.74. 2.22.2.42 FO.81 FO.96.	87.33.	87.11 2.46 1.10 2.56	86.89 2.68. 3.02 FO.10. 2.78 2.68	86.49 3.08. 3.03 0.0.	
			89.57		

	Sbdr.	F.P.	26 1/2	Gut.
+75		90.57 2.80 2.70	89.83 3.72	89.4
TP	703 9217	90.58	86.14	
+50	H.C. W. Land 9217X	91.25 4.47 4.20 ca. 17. 5.11	90.61 5.11 4.20 ca. 8.1 5.11	2914 88.21 1.88 4.00 3.74 4.10
+25		90.61 2.98 2.66	90.40 2.72 2.87	
23+0	x	91.33 4.39 3.88 ca. 51.	90.69 5.03 5.03 5.03	2788 88.92 1.87 3.48 3.52 92.01X
+75				
+50		91.60 4.12 3.97 ca. 15.	90.96 4.76 3.97 ca. 17.9 4.76	89.04 4.13 4.13
+25				
22+0		91.81 3.91 4.14 Fo. 23.	91.17 4.55 4.14 ca. 17.219 4.55	90.21 2.96 1.10 3.06
+75				
21+50		91.82 3.90 4.33 Fo. 43.	91.19 4.53 4.33 ca. 20.388 4.53	90.24 2.93 1.10 5.63

9572

	406	Gut.	2 Strip	F.P.	Sbdr.
	476 88.41 5.04 Fo. 28	87.91.			5500 1257 H.C. W. C. 9217 H.C. W. Land 9217
	701 88.71 7.39 Fo. 28 Fo. 47	88.21.	87.25 5.72 6.22 6.93	86.29 9.13 10.60 F1.17 9.43	85.41 10.31 10.60 Fo. 29
	574 88.98 7.10 Fo. 36	88.48.			
	89.22 6.50 3.98 Fo. 28 Fo. 50.	88.72.	87.76 5.41 6.00 5.51	86.80 8.92 6.37 Fo. 98 8.92	85.77 9.80 9.90 Fo. 10.
	89.40 6.32 6.25 Fo. 42	88.90.			
	89.54 6.18 6.26 Fo. 35	89.04.	88.08 5.08 6.19 6.15	87.12 8.10 10.01 F1.14 8.60	86.24 9.18 10.01 Fo. 50.
	89.66 6.06 6.03 Fo. 31	89.16.			
	89.75 5.99 6.10 Fo. 39	89.25.	88.29 4.88 5.91 4.98	87.33 8.39 8.96 Fo. 57 8.39	86.45 9.27 8.96 ca. 31.
	89.80 5.97 6.08 Fo. 36	89.30.			
	89.79 5.99 6.50 Fo. 57	89.29.	88.34 1.83 1.10 4.93	87.39 8.33 8.68 Fo. 35 8.03	86.76 8.96 8.68 ca. 32 0.32

9572

Finish Grades Federal Blvd

Sldr

FP

2 1/2 ft of 2

Gut

2 1/2 ft

Gut

2 Strip

FP

Sldr

53.00 25
 84.73
 84.75
 84.78
 93.177

+72.38 = 0 + 0
 H.W.O. on Lt.

87.76
 5.41

87.12
 6.05

86.16
 5.85

84.24

84.74
 8.43
 9.25
 10.92

84.24
 8.93
 8.71

83.28
 out

82.32
 10.85

81.64

H.C. H. Lane

93.17

84.2

84.75

Corrected

RRSPLZ
 25+72.38
 84.72 Page 22

84.73
 85.81
 7.09
 84.75
 10.14

+50

84.72
 1.12
 8589T

88.30
 1.87
 4.93
 FO.06

87.66
 5.51
 4.92
 CO.58

86.70
 5.31

85.74
 84.78

85.28
 7.89
 8.40
 FO.57

84.78
 1.06 ok
 8.37

83.82
 2.02
 2.12
 2.12

82.86
 10.31
 9.80
 CO.51

82.22
 10.25
 9.80
 CO.11

H.C. H. Lane
 93.17

+25

5.51
 5.51
 5.61

5.47
 5.47
 6.57

6.47
 0.12

7.04
 7.04
 6.81
 FO.15

85.83
 85.33

9.35
 9.45
 4.47

2.98
 3.05
 10.31
 10.41

25+0

89.38
 3.79
 4.12
 FO.34

88.74
 4.43
 4.12
 CO.30
 4.43

87.78
 4.23
 4.12
 5.12

85.86

85.86
 6.81
 7.18
 FO.37

84.90
 7.31
 7.27
 FO.37

83.94
 8.37
 8.37

83.30
 9.23
 9.63
 FO.40
 9.23

83.30
 9.87
 9.63
 CO.34

+75

86.84
 6.33
 6.33
 FO.37

86.34

+50

90.31
 2.86
 3.20
 FO.34

89.67
 3.50
 3.20
 CO.30
 2.50

88.71
 3.30
 4.12
 4.52

86.79

87.29
 5.88
 6.16
 FO.37

86.79
 6.38
 6.37
 gutter

85.83
 7.34
 7.34

84.87
 8.30
 8.71
 FO.41
 8.20

83.99
 9.18
 8.71
 CO.37

+25

90.08
 3.09
 3.10
 3.14

89.12
 4.23
 4.12

87.70
 5.27
 5.27
 FO.37

87.20

24+0

91.05
 2.12
 2.12
 00

90.41
 2.76
 2.12
 CO.64
 2.76

89.50
 2.51
 2.52
 2.76
 92.81

87.58

88.08
 5.09
 5.19
 FO.37

87.58
 6.57
 6.57
 gutter

86.62
 6.55
 7.19
 6.65

85.66
 7.51
 7.51
 FO.89
 7.51

84.78
 8.09
 9.90
 FO.01

93.17

93.17

	Sbdr	EP	gStrip	gut	gCb	gut	gStrip	EP	Sbdr	
+25	HC at hand 85.84 X 12.20 BM 73.64 31+0 73.66	76.17	76.16	76.16		76.16	75.95 3.04 3.17	75.73 3.26 3.36		
33+0		75.86	76.11	76.03 3.40 3.30 Cont	76.45 2.83 2.54 F1.91	75.95 5.31 5.28 cont.	75.67 5.52 5.49 5.50	75.39 3.89 3.83 5.27 5.27 4.72	set SW 14 5.75 F.C. 85.84 X	
+75	BM 73.66 5.62 79.28 X		76.06	75.90	75.73	75.73	75.39 3.68 3.22	75.04 3.95 4.05		
+50		75.25 3.33 3.33 0.0	76.05	75.80 3.48 3.33 F0.10 3.33 -0.07	75.55	76.05 3.25 1.17 F1.44	75.14 3.85 3.95 3.72	74.23 4.55 5.10 F0.55	74.18 5.10 0.0	
+25			76.06	75.73	75.39	75.39	74.92 4.02 4.07 2.12	74.44 4.55 4.65	BM 73.16 5.33 78.991	
32+0		76.49 2.79 2.79 0.0	76.11	75.70 3.58 3.17 2.79 F0.97	75.28	75.78 3.50 3.27 F0.97	74.79 4.30 4.30 4.32	74.20 5.08 4.79 4.82 F0.55	73.65 5.63 5.63 0.0	
BM +75 BM	5.62	79.28	76.21 12.15	73.66 75.71 73.69	BM at 10.0 R1314.0 73.66		75.21	74.61	74.00	
+45.83	F.C.	76.93 2.35 2.35 0.0	76.36	75.76 3.52 2.92 2.25 2.057 3.02	75.16	75.66 10.18 10.18 1.767	74.48 4.61 4.61 4.61	73.80 5.48 5.11 5.32 F0.63	73.17 6.11 6.11 0.0	
+25			76.50	75.84	75.17	75.67 11.17 11.06 F0.93	75.17	74.44	73.70	
21+0		77.38 8.46 10.83 F3.37 1.90 1.90 1.20 85.84	76.69	75.94 9.90 10.83 9.15 F1.68 2.59 1.90 20.69	75.19	75.19 10.15 11.20 F1.75	75.19	74.39 11.45 12.25 11.55 12.95	73.59 12.25 12.10 12.95	72.85 12.99

8584

Finish Grades Federal Blvd

H.C. 21 Lane
7928 A

Sbdr. E.P.

21 May

Gut.

26

Gut.

26.5

F.P.

Sbdr.

8/12/16

35+0

1st W of Bridge

76.63
5.09
5.03
0.99
49

76.58
1.57
5.09
FO 45
40

76.73
2.55
2.16
2.55
2.25

76.85
2.43
2.10
2.53
2.25
76.97

77.47
1.81
2.36
FO 49

76.97
4.29
4.23
FO 49

76.85
4.41
4.51
2.55
2.33
3.38
3.38
3.00
3.13

76.59
2.69
3.14
FO 45
3.17

76.14
3.14
3.14
2.42

BR 73.66
7.77
81.51

73.66
7.80
81.26

+75

H.C. Edgins mt
8/11/8/9/10

73.66
5.08
78.74

75.64
5.51
5.51
5.51

76.09
5.06
5.51
FO 45
2.75

76.64
2.64
2.16
2.16
2.16
2.16
76.88

77.38
1.90
3.32
FO 42

76.88
38
4.60

76.76
4.50
4.76
4.60
2.64
3.13
3.13
3.23

76.50
2.78
3.23
FO 45
3.26

76.05
3.23
3.23
3.23

5.10
2.71

+25

75.72

76.54

76.78

3.23

3.26

3.26

8/11/10

+17.41

H.C. 07 Lt

75.60

76.51

76.75

77.25

76.75

76.33

75.88

78.66
5.10
79.76

34+0

76.55
76.42
2.85
2.85
2.85
76.67

77.17
2.11
3.43
FO 42

76.67

76.55
77.76
4.81
2.85
3.33
3.33
3.47

76.24
3.04
3.49
FO 45
3.52

75.79
3.49
3.49
3.49

2.92

+95

76.34

76.44

76.53

76.18
5.08
5.17
3.27
4.10

75.34
3.92
4.39
FO 45
4.42

74.87
4.39
4.39
4.39

33+48.92 H.C. 07 Lt
S.H. 1.6

76.24
3.04
3.14

76.30
2.93
3.08
3.08
-0.12

76.35

76.85
2.43
2.43
FO 42

76.35
4.91
4.91
FO 42

76.01
3.27
4.10
3.75
4.25
3.95

75.34
3.92
4.39
FO 45
4.42

74.87
4.39
4.39
4.39

79.28

Stdr. EP $\frac{1}{2}$ Strip cb

$\frac{1}{2}$

cb

$\frac{1}{2}$ Strip EP

Stdr.

13

Finish Grades Federal Blvd.
Shdr. E.P. 26 11 of 2 Gut.

Jan 5 50 4511009. Paper
Garber
Gut. 25 26 Soft E.P.

Sheet 33 14

37+0

75.38	75.93	76.05	76.29
1.81	1.26	1.16	1.02
1.81	1.81	1.26	1.26
0.6	10	13.6	F0.55

Strip

76.17
1.02
1.12
-0.38

76.79	76.29	76.19	76.05	75.39	74.94
0.40	0.91	1.12	1.14	1.80	2.25
F0.51	1.72	0.90	1.14	1.80	2.25
0.40	1.72	0.88	1.14	1.80	2.25
1.08	1.72	0.88	1.14	1.80	2.25
F0.58	1.72	0.88	1.14	1.80	2.25
F0.98	1.72	0.88	1.14	1.80	2.25

Page 51
7801A

BM RP
41+48
18.90
8.29
77.19

36+7890 = Fly Bridge

76.95 76.45
0.21
0.25 on cb

BM RP
41+48
April 16-51

BM 5+7 8.29 77.19 1.52 18.90

BM RP
41+48
8.29

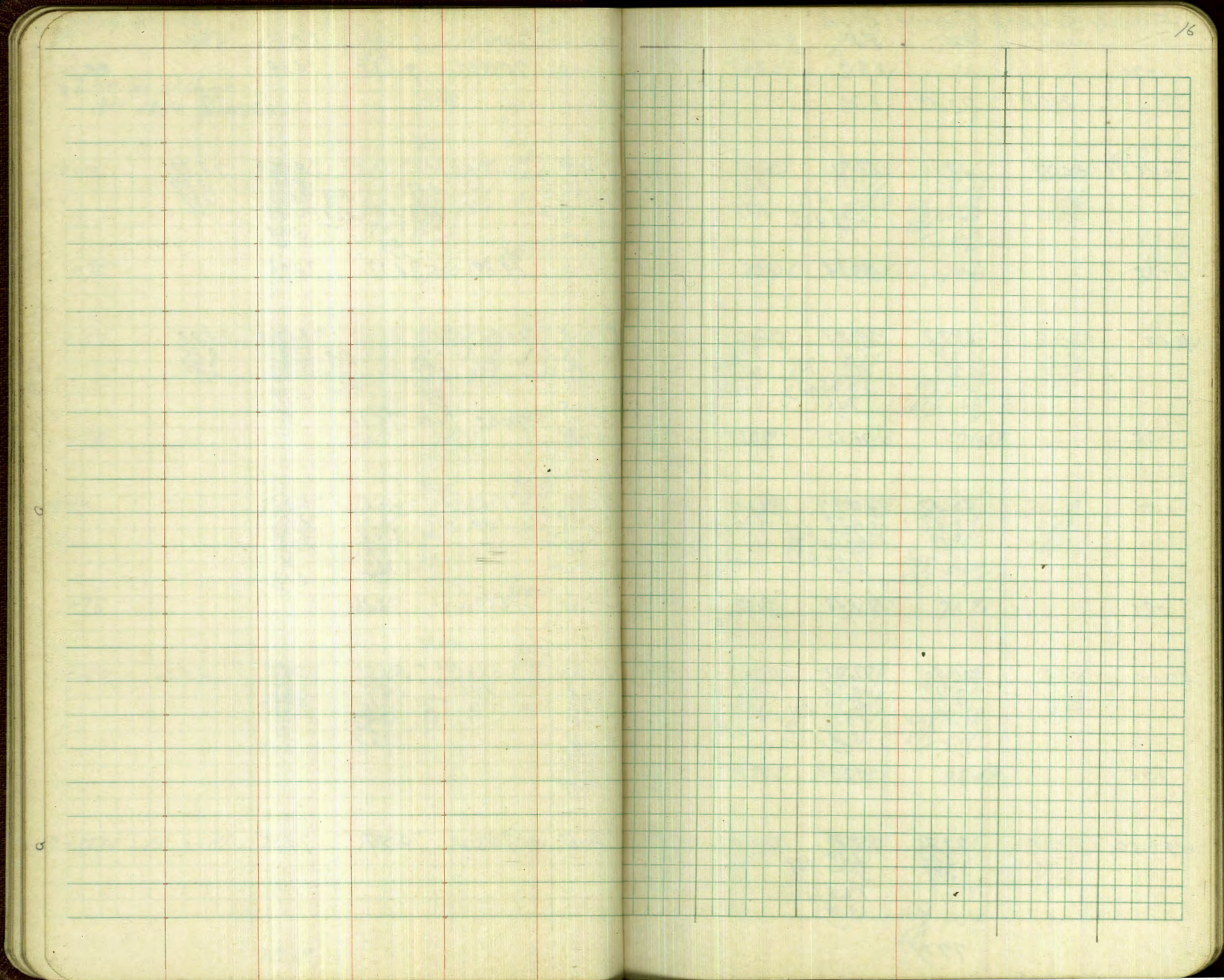
BM RP
41+48
18.90
8.29
77.19

BM 8.00 70.42 22.12

L+D P.I.
Federal Blvd
Paving

+97.72

35+16.54



g

g

Finish Grades Federal Blvd.

	Stdr.	E.P.	Strip	Gut.
+75		68.12	68.65	69.19
IP	2.58	72.48	8.29	68.90
+16.86 BC LT	68.16 9.03	68.71 8.48 10.12 8.42	69.19 3.29 3.29 3.39	69.67
+25		69.24	69.65	70.05
4+0	69.28 7.91 7.91 8.0	69.83 7.36 7.91 7.36	70.16 7.03 7.13 7.13	70.48 6.71
+75		70.12	70.67	70.91
+50	70.42 6.77 6.6	70.97 6.22 6.22	71.15 6.04 6.12 6.12	71.33
+25		71.48	71.62	71.76
40+0	71.40 5.79 5.79 5.8	71.95 5.24 5.24 5.24	72.07 5.12 5.12 5.12	72.19
+75		72.38	72.50	72.62
39+50	72.25 4.74 4.74 5.0	72.86 4.39 4.39 4.39	72.92 4.27 4.27 4.27	73.04

77.19

#C	Gut.	Strip	E.P.	Stdr.
69.69	69.19	69.73	70.26	
70.17	69.67	70.15	70.63	71.07
70.55	70.05	70.45	70.86	
70.98	70.48	70.81	71.13	71.43
71.41	70.91	71.15	71.39	
71.83	71.33	71.49	71.64	71.78
72.26	71.76	71.83	71.91	
72.69	72.19	72.19	72.18	72.16
72.12	72.62	72.55	72.49	
73.54	73.04	72.95	72.85	72.87

18.90
2.12
71.031

70
77.191

*

434
1.34
1.34

	Shdr.	F.P.	Strip	Gut.
+25				65.81
44+0	02 Bridge			66.04
	2.08	68.53	6.90	66.45
BM	4.45	73.35		68.90
+50	02 Bridge			66.58
+25	Last			66.88
43+0		65.11	65.77	66.49
+75			66.12	66.84
+50		65.84	66.50	67.22
+25			66.96	67.65
42+0		66.90	67.48	68.12

72.48

Shdr.	F.P.	Strip	Gut.	Shdr.	F.P.	Strip	Gut.
			65.81				67.25
			66.54				66.04
			67.08				66.58
			67.38				66.88
			67.71				67.21
			68.06				67.56
			68.44				67.94
			68.84				68.34
			69.26				68.76
							69.40
							70.04
							70.62

72.5

5600/31
Feb 13-51
H. Sims?
Garber
10 pp
BM 65.41
69.4
71.35
65.41
5.70
70.75

71.021

66.21 65.81
1.94 5.64
1.2 6.21
5.56 6.77
5.06 6.87
6.07 Subs
6.07 Grade
67.25
3.50 4.10
3.82 4.92
4.06 5.08
67.48
1.05
66.54 66.04
2.42
6.16
67.08 66.58
5.20
67.38 66.88
5.70
6.01
F0.91
67.71 67.21 67.93 68.65 69.31
4.77 9.98 9.36 3.83
5.35 9.20 9.39 3.83
F0.52 8.56 0.9
F0.70 8.62 2.37
68.06 67.56 68.28 69.00
4.42
5.20
F0.78
68.44 67.94 68.66 69.38 70.04
1.04 9.25 8.53 3.10
4.75 8.47 7.82 2.22
F0.71 7.82 0.86 2.44
7.82 1.64 0.0
68.84 68.34 69.03 69.72
3.64
3.22
F0.88
69.26 68.76 69.40 70.04 70.62
3.22 7.78 7.44 1.85
3.82 7.82 7.46 1.82
F0.34 7.82 7.05 0.0
7.15 0.98
7.25

Finish Grader Federal Blvd

	Sbdr.	F.P.	26' Lt. of 2	Gut.
+75		65.18	64.85	65.85
	68.60			
	3.19			
	65.41			
	4.93			
	76.37			
48+50	64.30	64.85	64.85	65.64
	4.96			
	6.88			
TP	69.86	238	66.15	26.5
48+25		64.52	64.54	65.45
+97.48 EG.	63.59	64.14	64.23	65.22
	5.06	4.39	4.37	
	5.78	4.46	5.04	
	5.18	5.13	5.04	
	0.0	5.25	5.06	
+75		63.80	64.01	65.16
+50	62.85	63.38	63.78	65.04
	5.75	5.15	4.87	
	5.72	5.32	5.19	
	5.72	5.29	5.29	
	0.0	5.83	5.00	
+25		63.04	63.61	64.96
BM	6.41	68.53	62.12	64.89
47+0 = 2' Rad.	62.27	62.80	63.48	64.89
	6.43	5.73	5.13	
	6.56	5.87	5.79	
	6.40	6.47	5.79	
	0.0	6.56	5.79	
+75		62.70	63.42	64.86
+58 = 2' Rad				64.85
46+50	62.19	62.66	63.40	64.84
	6.43	5.87	5.70	
	6.15	5.87	5.87	
	68.53	6.81	5.87	
		6.81	5.87	
			6.0	

	Gut	2 Strip	F.P.	Sbdr.	20
	66.35	65.85	66.21		71.15
	2.78				
	3.82				
	F0.74				
	66.14	65.64	66.17	66.41	4.77
	2.39	4.19	3.64		
	3.22	4.52			
	F0.85	F0.85			
	15.95	65.45	66.15		
	3.18				
	3.13				
	F0.95				
	65.79	65.28	66.16	66.54	
	3.42	3.25	2.87	4.11	
	3.23	3.81		4.78	
	F1.07	F0.56			
	65.66	65.16	66.19		
	3.47				
	4.52				
	F1.12				
	65.54	65.04	66.23	66.78	
	2.59	2.49	2.60	1.27	
	4.34	4.71		1.17	
	F1.25	4.26		1.54	
	65.46	64.96	66.27		
	3.67				
	3.64				
	F1.37				
	65.39	64.89	66.29	66.94	
	3.74	3.84	2.24	4.72	
	4.94	4.31		4.38	
	F1.47				
	64.86	64.86	66.30		
	7.16				
	7.23				
	F0.07				
	65.35	64.85	64		
	65.34	64.84	66.28	66.94	
	3.69	4.77	2.25	4.38	
	3.67	7.18		4.38	
	4.3 on Inlet	7.18			

0.17 Sub Grade

1100 Page 57

Sheet 31

561-60
71.15

477
66.41

BM 65.41
5.77
71.18

69.13

Sub G.P.
71.35

4.72
4.38

4.38

4.38 Sub G.P.

Sbdr. EP 2 Strip Gut 2 Co. Gut 2 Strip F.P. Sbdr. 21

+32 = 1 Rad

68.13
1.00
1.50
F0.50

67.63 - Parv

B.M. 68.90
69.90
69.49
B.P. 1.541
47.441

+07.80 Meet Existing Grade

67.52

68.08

67.52

50+0

66.75.
3.59
1.71
3.76
2.75
0.0

67.20.
3.14
1.71
3.31
3.31
0.0

67.41

190
2.41
F0.71

67.91 67.41 67.31
0.62 1.22 2.40
1.33 1.22 2.61
F0.71 F0.71 F0.31

3.77

67.22

66.77

438
17
4.55 - Sub Gr
69.13

+75

66.82

10

67.06

67.36
1.37
2.04
F0.77

67.06

66.98

1.33
2.75
4.95
6.00

66.90

71.18 - Sub Gr

+50

65.93.
4.41
1.47
4.58
1.00

66.41.
3.40
3.93
1.10
4.10
0.0

66.71

1.42
1.32
2.02
F0.70

67.21

66.71

66.67

1.56
1.69
5.23
3.23
0.0

66.62

66.35

4.20
4.97
✓

+25

65.97

66.38

66.88
2.23
3.94
F0.69

66.38

66.10

4.22
5.14
5.44
5.60

66.41

49+0

65.01.
5.33
1.77
5.50
5.00

65.53.
4.28
4.81
4.06
4.98
1.00

66.10

66.60
1.92
2.62
F0.69

66.10

66.19

4.90
6.7
3.53
5.57
5.50 - Sub Gr

66.28

66.26

1.89
1.19
5.06 - Sub Gr

69.86 Fint 4 Par.
68.53 2 Co

2.53
3.21
F0.68

F0.19 F1.754

Finish Gradations North West Outer Connection

+25	EP	March 18.51		
		HSiron		
		Garber		
		Rortel		
		Bartolucci		
+20				
+75				
+50				
+25				
+10				
+75				
+50				
+25				
0±0 - opp.				
25+72.38				
BM				

Sta.	EP	Nov. 20.50 H.S. 5000 Garber	Rortel	EP	Sbdr.	Sheet 25	22
82.31	82.45		81.94	81.78		BM 73.66	83.40
8.01	8.22					12.47	Federal
8.01	8.07			6.37		88.15	
0.0	0.21	0.5		1.16			
	6.01	6.15		6.72			
	82.74			82.27			
83.78	83.38		83.08	82.78			
1.54	1.94			5.37			
1.54	1.54		1.77	1.16			
0.0	0.70	1.77		5.47			
	4.77	4.82					
	84.01			83.80			
85.18	84.65		84.25	83.85			
5.14	5.67			1.00	4.00		
5.14	5.14		0.50	1.16			
0.0	0.50	0.50		4.7			
	2.50	3.00					
	85.27			84.40			
86.51	85.89		85.43	84.97			
3.81	4.45			3.18			
3.81	3.82		2.26	2.18			
0.0	0.82	2.26		1.16			
	2.26	2.90		3.28			
	86.51			85.51			
87.76	87.12		86.64	86.16			
2.56	3.20			1.90	1.99		
2.56	2.56		1.03	2.09	0.01		
0.0	0.67	1.03		7.032			
1.80	1.03	1.13					
0.89							
	6.14			6.91			

F.C. Edgus
88.15
3.43
TR 84.72
RR Spk
2 25+72.38
Federal

07.28.20
Federal
78.36 P.9
RR No. 2
Broadway
434 1/2 St.

North West Outer Connections

Feb. 22-51
 75. W02
 Garber
 Porter
 Bertolucci

Slyditch
 1441

EP
 6.11

11.174
 17.27

EP
 6.11

Sldr.
 W.R.K.

25

+75

+150 HC

BM 66.13
 5.28
 71.915
 11x8P
 11x8-72"
 11-04111100

+25

9+0

OK!

Access Cont Page 54

+75

Sldr. 40.47 EP 57.14 Strip 17.47

+46.54 - Opp
 8+28.39 PCC
 Fixers

+25

8+0

BM 8.42

74.55

66.13

11x8P
 Hand saw
 8-72 Shorn
 11-04111100

+75

7+50

68.91 68.97 69.17 69.37
 7.45 7.39 8.54
 7.25 7.25 2.99
 7.00 F0.06

76.36

67.70
 6.85
 5.25
 5.0

68.58
 5.97
 2.85
 F0.88
 7.78
 6.07

69.06

69.54
 5.01
 2.61
 5.01
 5.77

69.94
 4.61
 2.00

EP
 76.51
 7.98
 68.58
 5.22
 74.557

67.86
 6.69
 3.09
 F1.90
 F1.91

68.74
 5.81
 2.09
 F2.28
 7.62
 5.92

69.22

69.70
 4.85
 7.15
 4.85
 4.95

70.10
 4.45
 4.45
 0.0

EP
 74.55
 5.91
 68.64
 7.72
 76.361

68.41
 4.11
 3.16
 3.06

69.06
 5.19
 6.14
 F0.65
 7.20
 7.20

69.54

70.02
 4.53
 4.13
 5.01
 5.34
 6.27

70.42
 4.13
 4.00

68.83
 5.72
 5.72
 0.0

69.47
 5.08
 5.72
 F0.61
 6.89
 6.99

69.95

70.43
 4.13
 5.72
 5.93
 6.03
 5.92

70.83
 3.72
 3.72
 0.0

55.6

69.41
 6.95
 3.64
 0.034

70.05
 6.31
 6.31
 F0.76
 6.21

70.53

71.01
 5.35
 7.85
 5.35
 5.77

71.41
 4.95
 2.95
 0.0

North Start Outer Connection

+25

+20

+25

+50

+25

+40

+75

+50

+25

+40

74.55

Sbdr.	F.P.	±	F.P.	Sbdr.	F.P.
17	6	±	6	11	
	70.27'		71.23'		
69.05	69.93 ✓	70.41	70.89 ✓	71.29	
5.50	4.62		3.16	3.28	
5.30	5.30		3.36	3.28	
0.0	10.00		0.40	0.0	
	4.2	4.6	3.16		
	4.2	4.92	3.16		
	69.64'		70.60'		
					H.C. Error 74.55
68.50	69.38 ✓	69.86	70.34 ✓	70.71	
6.05	5.17		4.31	3.81	
6.05	6.05		3.81	3.81	
0.0	10.00		0.40	0.0	
	5.17	5.10	4.31		
	5.17	5.27	4.31		
	69.18'		70.12'		
68.09	68.97 ✓	69.45	69.93 ✓	70.33	
4.41	5.58		4.62	4.33	
4.41	6.46		4.33	4.33	
0.0	10.00		0.40	4.00	
	5.58	5.58	4.62		
	5.58	5.58	4.62		
	68.82'		69.78'		
67.82	68.70 ✓	69.18	69.66 ✓	70.06	
6.73	5.85		4.89	4.49	
6.73	6.73		4.49	4.49	
0.0	10.00		0.40	0.0	
	5.85	5.85	4.89		
	5.85	5.95	4.89		
	68.62'		69.58'		
67.69	68.57 ✓	69.05	69.53 ✓	69.93	
6.86	5.98		5.02	4.62	
6.86	6.86		4.62	4.62	
0.0	10.00		0.40	0.0	
	5.98	5.98	5.02		
	5.98	6.08	5.02		

North West Outer Connections

Stdr.	EP	±	EP	Sbdr	EP
					74.551 0.86 73.89 12.10 85.797
+50	7436 3.61 3.57 0.0	7500 2.90 3.64 F0.84 10.78 10.82	75.35	7569 2.21 10.10 10.24	7598 1.92 10.68 10.78
+25		74.34 4.45 4.0 11.55		7511	
14+0		7292 4.98 4.98 0.0	74.11	74.53 3.87 5.02 0.02 F1.65 6 0.02	7488 3.07 5.02 F3.00 74 814 66.52 8.45 74.35
+75	TP	563	7790	2.28	72.27
+50		71.63 2.92 2.92 0.0	72.48 2.07 2.92 F0.85 2.07 2.12	72.95	73.41 1.14 0.75 4.0 0.27 1.21 1.16
+25			71.95	72.45 2.12 1.72 0.040 2.12 2.12	72.80 0.75 0.75 0.0
13+0		70.59 3.96 3.96 0.0	71.47 3.08 3.26 F0.88 3.08 3.18	71.95	72.45 1.72 1.72 0.0
+75			71.03	71.99	
12+50		69.76 4.79 4.79 0.0	70.64 3.91 4.79 F0.88 3.91 4.01	71.12	71.60 2.25 2.55 0.70 2.05 2.95
					72.00 2.55 2.55 0.0

74.55

+75

+50

+25

TP 9.51 88.33 0.08 78.82 an stus
17.41 of 2
16.100

16+0

+75

+50

+25

15+0

+75

14+86.11 FC

B14 12.77 78.90 86.13 11.188P
N 73-78 C
11-04-11-2000

Stadr.	EP.	±	EP.	Stadr.	EP.
17	6 80.34 5.45 10.5 5.5		6 80.05 5.28 5.84	11	85.797

80.04	79.85	79.75	79.64	
8.29	8.48		6.15	
8.29	8.29		6.15	
0.0	0.19	5.94	6.25	
	5.94	6.0	6.25	
6.45	79.34		79.23	6.46

H.C. Edges
85.79

78.82	78.82	78.82	78.82	
0.08	0.08		6.97	
0.08	0.08	6.97	6.97	
0.0	0.0	6.97	6.97	
	6.97	7.02	7.02	
7.52	78.27		78.39	7.70
7.0			7.50	

77.46	77.68	77.80	77.92	78.02
1.44	1.22		7.87	
1.44	1.22	8.10	7.87	
0.0	0.32	8.10	7.72	
	8.11	8.21		
8.72	77.07		77.43	8.06
7.16			8.42	
8.88				

75.97	76.41	76.65	76.89	77.09
2.93	2.49		8.90	
2.93	2.93	9.38	8.90	
0.0	0.41	9.38	9.00	
	9.88	9.48		
10.07	75.72		76.01	9.18
10.12			9.58	
10.12				

74.71	75.33	75.59	75.84	
4.19	3.59		9.95	
4.19	4.19	10.4	9.95	
10.0	0.62	10.4	out	
	10.46			
	out			

Finish Grades North East Outer Contn.

TP 326 73.81 817 70.55

+20

Stdr.	H. - East E.P. 8' 1/2 ft	Center of Paving	E.P. 6' 1/2 ft	Stdr.	Rt. Plat. AC. Paving 30 SP 115450
	69.28	70.76	71.55	72.16	83.67
	9.11	8.76	7.17	6.26	0.18
	9.44	9.41	6.26	6.26	83.85
	10.0	10.18	7.00	6.00	9.28
		8.76	7.00		73.93
		10.18	7.00		4.79
		8.86	7.37		78.72

+50

70.63	71.19	71.85	72.50
8.09	7.53		6.42
8.09	8.09		6.38
8.00	7.53		6.32
8.09	7.53		6.32
	7.53		
	7.53		

+70

72.27	72.67	73.14	73.60
6.45	6.05		5.12
6.45	6.45		5.12
0.60	6.40		5.22
6.45	6.05		
6.45	6.15		
6.45	6.15		

+94.51 = opp. 109+9733 on Rt. Habash

+50

73.86	74.16	74.49	74.81
4.86	4.56		3.91
4.86	4.86		4.01
0.0	4.50		
	4.50		
	4.65		

0+0 = opp

75.17	75.47	75.75	76.03
3.55	3.25		2.69
3.55	3.55		2.69
0.0	3.30		2.69
1.8	3.25		2.79
	3.25		
	3.35		

814 12.59 78.72 66.13

HWBP
HW 11+01
HW 00

Stdr	E.P.	d Center of Pen	E.P.	Stdr	H.C. Edges
					78.75A 78.75B 10.65 68.07 1.91 69.98
66.57	67.29	68.13	68.97	69.21	
7.21 7.24 7.26 0.0	6.57 7.22 F0.72	2.69 2.70 2.78	1.01 4.60 1.11 0.27	4.94 4.80 0.27	4.10 4.80 0.0
67.01	67.73	68.57	69.41	69.65	
6.80 6.80 0.0	6.08 6.80 F0.72	2.25 2.25 2.33	0.57 1.00 0.67	4.40 4.16 1.00 0.0	4.16 4.16 0.0
67.45	68.17	69.01	69.85	70.09	
6.36 6.36 0.0	5.64 6.36 F0.72	10.55 10.55	3.96 3.72 0.0 8.96 8.97	3.72 3.72 0.0	
67.88	68.60	69.44	70.28	70.52	
5.93 5.93 0.0	5.21 5.93 F0.72	10.13 10.13	3.53 3.29 0.0 8.44 10.13 8.54	3.29 3.29 0.0	
68.42	69.14	69.98	70.82	71.06	
5.39 5.39 0.0	4.67 5.39 F0.72	9.68 9.68	2.99 2.75 0.0 7.70 8.00	2.75 2.75 0.0	

+50

+40

+60

+30

2+50

78.81

Finish Grades North East Outer Conn.

March 16-51
H.S. Wood
Garber
Rorer
Bertolucci

Stadr E.P. 4 E.P. Stadr 32
Center of Pav. A.C. Edges

19.985

7+0

64.01	65.09	65.93	66.77	67.37
5.97	1.89	4.89	3.31	2.61
5.97	5.97	1.96	2.64	2.61
0.0	F108	1.99	3.21	0.0
			3.31	

7+50

64.45	65.53	66.37	67.31	67.81
5.53	1.15		2.97	2.17
5.53	5.53		2.77	2.17
0.0	F108	1.45	1.16	0.0
		4.55	2.87	0.0

6.00
6.00 each

BM

108

69.98

68.90

BP#1014
15 41-46

6+0

64.89	65.97	66.81	67.65	68.25
8.92	7.01		6.15	6.56
8.92	8.92	4.01	2.33	5.56
0.0	F108	1.10	1.10	0.0
		4.11	2.73	0.59

7+50

65.69	66.41	67.25	68.09	68.33
8.12	7.96		5.73	5.48
8.12	8.12	3.57	1.89	3.48
0.0	F072	1.10	1.00	0.0
		8.57	1.99	

5+0

66.63	66.85	67.69	68.53	68.77
7.68	1.96		5.18	5.04
7.68	7.68	2.13	5.04	5.04
0.0	F072	3.23	1.45	0.0
		3.23	3.70	

73.81

Sbdr.	EP	Center Par.	EP	Sbdr.	HC. Edgts
-------	----	-------------	----	-------	-----------

1998
 6.30
 6.68
 6.30
 6.98

+50

61.87	62.95	63.79	64.65	65.23
8.11	7.03		5.35	4.75
8.11	8.11	7.03	5.35	4.75
0.0	F1.08	7.03	100.00	0.0
		7.12	5.45	

9+0

62.26	63.34	64.18	65.02	65.62
7.72	6.64		4.96	4.36
7.72	7.72	6.64	4.96	4.36
0.0	F1.08	6.64	100.00	0.0
		6.71	5.06	

+50

62.70	63.78	64.62	65.46	66.06
7.28	6.20		4.52	3.92
7.28	7.28	6.20	4.52	3.92
0.0	F1.08	6.20	100.00	0.0
		6.29	4.62	

2+0

63.13	64.21	65.05	65.89	66.49
6.85	5.77		4.09	3.49
6.85	6.85	5.77	4.09	3.49
0.0	F1.08	5.77	100.00	0.0
		5.87	4.19	

7+50

63.57	64.65	65.49	66.33	66.93
6.41	5.33		3.65	3.05
6.41	6.41	5.33	3.65	3.05
0.0	F1.08	5.33	100.00	0.0
		5.43	3.75	
		5.43	3.75	

69.98

Sbdr. F.P. ¹ Center of Par. E.P. Sbdr. 34
 H.C. Edgar
 6998.1
 1.06
 8PM 6892
 1898

12+0

6292 6340 6387
 7.06 6.14

750

6228 6331 6394
 7.30 6.04

10271 = 4374864 Federal Blvd on Rt.

11+0

6142 6243 6322 6400
 8.56 7.55 5.98
 out 11.75 7.65 5.98
 7.65 6.0

750

6136 6244 6328 6412 6472
 8.67 7.54 7.54 5.86 5.26
 8.12 9.66 7.76 5.86 5.26
 0.00 7.08 7.64 10.00 0.00
 5.96 5.96

10+0

6157 6265 6349 6433 6493
 8.41 7.33 5.65 5.05
 8.41 7.33 5.65 5.05
 0.00 7.08 6.60 6.00
 7.33 5.26
 7.73 5.75

1998

North East Outer Connection

Stn

EP

$\frac{1}{2}$
Center of Pav.

EP

Stn

35

12+57.26 EG = Opp 15+07.45 Federal Blvd

12+50

62.42 62.96 63.38 63.80

Finish Grades North West Inner Loop

Per 6' Pt Shdr N. Pt
8' 41" 17' 41"

April 11-51
FC Edges

E.P.
March 10-51
H.S. 1000
G.P. 1000
P.P. 1000
Bartolucci

+25

+0

+75

+50

+37.92

+25

0 ± 0 = Opp 103 + 8178 Habarb

R.M

5-21

71-34

66-13

H.M. B.P. H.M.
5-75 C.M.
H.M. 11704
H.M. 11700

Shdr	E.P.	Cent	E.P.	Shdr	FC Edge 36
	8' 41.2	of paving	6' RTZ		H.M. Car H.M. 140. H.M.L 814 63.59 5.23 68.81
					April 12 Shdr 67.4
61.92	63.00	63.84	64.68	65.10	63.59 5.23 68.81
6.89	8.34		413.666		
	5.86		1.23		
	5.91				
61.27	62.35	63.19	64.03	64.63	
7.54	8.99		7.31	6.71	
	1.46		4.78	6.76	
	1.34		10.00	6.60	
	6.53		4.82	7.32	
61.07	61.77	62.59	63.41	64.23	
7.74	9.57		7.93		
	7.96		5.10		
	7.14		5.50		
60.73	61.35	62.08	62.81		
8.02	9.99		8.53		
	5.76		6.98		
	7.56		6.15		
60.53	61.05	61.65	62.24		
8.28	7.78		6.57		
	7.86		6.67		
60.40	60.79	61.25	61.70		
8.41	8.02				
1.19	1.16				
	8.15				

Stdr.	F.P.	Center Por.	F.P.	Stdr.	37 H.C. Edger
					68.81 211 220 P 66.70 11.99 78.691
+75	66.27	67.35 3.99 11.03 11.44	68.19	69.03 2.31 9.66 9.72	69.63
+50	65.52 5.92 5.82 0.0	66.60 4.74 5.92 F1.08 4.74	67.11 12.08 1.18	68.28 3.06 10.41 10.52	68.88 2.16 6.26 F4.00 1.90
+25	64.78	65.86 5.48 12.83 12.93	66.70	67.52 3.80 11.15 11.35	68.14
2+0	64.04 7.30 7.30 0.0	65.12 6.27 7.30 F1.08 1.52	65.96 3.69 3.69	66.80 4.51 5.94 2.01 2.11	67.40 3.94 3.74 F2.00 1.90
+75	63.30	64.28 6.96 1.43 1.53	65.22	66.06 2.75 1.23 2.82	66.66
1+50	62.60 8.74 8.74 0.0	63.68 7.66 8.74 F1.08 7.66	64.52 5.43 1.23 5.23	65.36 5.98 5.64 3.45 4.0 3.55	65.60 5.71 5.74 0.0

+75
+50
+25
+20.80 P.C.C.
2+0
+75
1+50

71.34

Stdr	F.P.	Center Pct.	F.P.	Stdr
71.04	72.12	72.96	73.80	74.40
765	6.57		4.89	4.29
765	7.05	1.57	4.89	4.29
0.0	F1.08		1.89	0.0
	6.57	6.57	1.89	
70.49	71.57	72.41	73.25	73.85
	7.12		5.44	
	7.18		5.44	
	7.22		5.54	
69.88	70.96	71.80	72.64	73.24
8.81	7.73		6.05	5.25
8.81	8.81		8.45	8.25
0.0	F1.08	7.73	6.05	10.00
	7.73	7.73	6.05	1.55
		7.83		
69.21	70.29	71.13	71.97	72.57
	8.40		6.73	
	8.40		6.73	
	8.50		6.82	
68.50	69.58	70.42	71.26	71.86
10.79	9.11		7.43	6.83
10.79	10.19		10.83	10.83
0.0	F1.08	9.11	7.43	F3.40
	9.11	9.11	7.53	7.43
67.75	68.83	69.67	70.51	71.11
	2.61		0.83	
	9.86		8.18	
	9.96		8.28	
67.01	68.09	68.93	69.77	70.37
2.25	3.25		1.57	0.97
2.25	1.28		3.97	3.97
0.0	F1.08		8.78	F3.00
	2.25	10.60	9.03	10.5
		10.70		

+50

+25

+10

+75

+50

IP

+25

+10

10.70 78.69 2.35 67.99

7134

+3790 = opp 33 + 55.85
Fcdern

+25

+75

+50

+25

+50

+75

4 + 69.54 PCC

7869

Sldr.	F.P.	Center of P.V.	F.P.	Sldr.	39 P.C. Edgrr 78697
	74.57	75.38	76.19		
	1.12418		2.05		
	4.27		2.65		
7325	74.33	75.17	76.01	76.61	331 BP 350 Federal 7866 508 7874
5.11	1.31		2.68	2.08	
5.11	5.21		2.08	2.08	
0.0	F1.08		2.08	2.08	
	4.38	4.41	2.08		
		4.51	2.83		
7302	74.10	74.94	75.78	76.38	7859
	4.59		2.91		
			2.91		
	4.59		3.07		
	4.69				
7273	73.81	74.65	75.49	76.09	
5.96	4.88		3.20	2.60	
5.96	5.96		2.80	2.60	
0.0	F1.08		2.60	2.00	
	4.88	4.88	3.20		
		4.88	3.20		
7239	73.47	74.31	75.15	75.75	
	5.22		2.54		
	5.22		3.54		
	5.32		3.54		
7199	73.07	73.91	74.75	75.35	
6.70	5.12		3.91	3.31	
6.70	6.70	5.12	3.21	3.31	
0.0	F1.08	5.12	3.21	3.31	
	5.62	5.75	4.01	3.91	
	7263	73.47	74.31		
	6.06		4.35		
	6.06		4.38		
	6.71		4.72		

H.C. Effort
28.74

8M

504. ✓
5.06 73.63

8PH1261
Rt 3170
Federal
73.66

+9630 F.C. - Opp 3447.41 Federal

75.01
3.68
3.68
0.0

75.60.
3.09
3.68
FO 97 3.16
3.09 3.51
3.51

76.51.
2.18
2.18
2.18

+75

74.54

75.28.
2.41
0.46
3.52

76.43.
2.22
2.22
2.22

6+500

73.97
1.72
1.72
0.0

74.89.
3.80
4.92 2.85
FO 92 5.95
3.80

76.33.
2.37
2.37
2.37

7869

Finish Grades South West Inner Loop

+25

5 ctr. on 1st 1641
 BM 7026
 510
 7876 71.30

1+0

71.28 Grate
 538

+75

72.26

+50

73.27

+3890 = opp 33+07.98
 Federal

+25

74.19
 457

0+0

= opp 33+48.92
 Federal

BM

500 7666

70.66

8 P.H. in 1st
 R1 31+0
 Federal 18

J.C. Edgar April 11-51

Sheet 22

10614.51
 15.550
 10629.06
 41
 8 P.H. in
 87+0
 Federal

Stdr.	E.P.	d	E.P.	Stdr.	8 P.H. in
	8	Co. Sec. of Par	8		87+0
70.28	71.36 5.30 5.30 5.70	72.20	73.04 2.62 3.68 3.73	74.00	73.66 2.00 78.66T
71.18	72.24 5.49 4.42 4.42 1.59	73.07	73.89 2.79 3.83 2.77 2.87 2.72	74.83	1.83 2.83 F2.00 1.40
72.15	73.11 3.55 3.55 3.65	73.86	74.61 2.95 3.75 3.15	75.47	
73.18	73.97 3.48 3.48 2.48 2.48 2.89	74.59	75.20 1.46 1.46 1.54 1.46 1.26 1.56		
74.12	74.73 2.51 2.04 F1.50 1.93	75.51	75.68 0.98 1.0 1.08		
75.36	75.69 1.30 1.30 1.30 1.40	76.02	76.02 0.64 1.0 0.74		

2+0

TP E.P. 2.41 66.55 12.52 64.14

+75

TP 1.62 66.55 11.73 64.93

+50

+25

2+0

+75

1+50

76.66

Sbdr	E.P.	Center of Pen	E.P.	Sbdr	
61.75	62.83	62.67	64.51	65.11	
1.80	3.22		2.04	1.11	
1.90	1.80		1.42	1.42	
0.0	0.0		0.0	0.0	
	F1.08	3.72	2.04		H.C. 1901
	3.72	3.82	2.74		76.66
					10.85
					63.71
					0.84
					66.55
62.06	64.14	64.98	65.81	66.41	
	12.52		10.85		
			10.85		
	12.52		10.95		
	12.52				
64.35	65.43	66.27	67.11	67.71	
12.31	11.23		9.55	8.95	
12.31	12.31		8.95	8.95	
0.0	F1.08		0.0	0.0	
	11.23	11.23	9.55		
		11.23	9.55		
			9.55		
			9.55		
65.65	66.73	67.57	68.41	69.01	
	9.93		8.25		
	9.93		8.25		
	10.03		8.25		
66.96	68.04	68.88	69.72	70.32	
9.70	8.62		6.61	6.34	
9.70	9.70	8.62	6.34	6.34	
0.0	0.0		0.0	0.0	
	F1.08	8.62	6.94		
	8.62	8.72	7.04		
68.20	69.28	70.12	70.96	71.56	
	7.38		5.70		
	7.38		5.70		
	7.38		5.70		
69.30	70.38	71.22	72.06	72.78	
7.36	6.28		4.60	3.88	
7.36	7.36		4.60	4.60	
0.0	0.0		0.0	0.0	
	F1.08	6.28	4.60		
	6.28	6.38	4.60		
		6.38	4.60		
			4.60		

Corrected	4.94	57.44	52.50
BM		4.94	52.53
TP	2.94	57.47	12.08
			54.53

8P 477
72" C.M.
S.M.L.

+50

54.52	55.60	56.44	57.38	57.88
12.03	10.95		9.27	8.67
12.03	12.03	10.95	9.27	out in Ramp
0.0	Fl.08	10.95	9.37	
	10.95	11.05		

+25

55.50	56.58	57.42	58.26	58.86
	9.97		8.29	7.69
	9.97		7.69	7.69
	9.97		8.29	0.0
	10.07		8.29	

+10

56.60	57.68	58.52	59.36	59.96
8.95	8.87		7.19	6.59
9.95	9.95		7.19	6.59
0.0	Fl.08		6.60	0.0
	8.87	8.87	7.19	7.19
		8.87	7.19	7.19

+75

57.85	58.93	59.77	60.61	61.21
	7.62		5.94	
	7.62		5.94	
	7.62		6.04	
	7.73			

+50

59.15	60.23	61.07	61.91	62.51
7.40	6.82		4.64	4.04
7.40	7.40	6.82	4.64	4.04
0.0	Fl.08	10.04	4.64	0.0
	6.82	6.82	4.64	4.64
		6.82	4.64	4.64

+25

60.45	61.53	62.37	63.21	63.81
	5.02		3.34	
	5.02		3.34	
	5.02		3.34	
	5.13		3.34	

66.55

Star. E.P. Center of Pav. E.P. Jbds. 56 Oct 32 43 H.C. Edgar 66.55

6+00

Stdr.	F.P.	d Center of Pav.	F.P.	Stdr.
51.83	52.73	53.43	54.13	54.63
561	471		3.31	2.81
261	561	471	5.31	5.31
0.0	F0.90	481	F2.00	F2.50
	471		3.41	14.8

44
H.C. Edgar
52.50
4.94
57.44*

+75

51.68	52.72	53.53	54.33	54.90
	4.22		3.11	
	4.72		3.16	
	4.82		3.21	

+50

51.91	52.99	53.83	54.67	55.27
5.53	4.45		2.77	2.17
5.53	5.53		5.17	5.17
0.0	F1.08	4.45	F2.40	F3.10
	4.45	4.55	2.77	15.5
		4.55	2.87	

+25

52.37	53.45	54.29	55.13	55.73
	3.99		2.31	
	3.99		2.36	
	4.01		2.41	

5+00 - Cube

52.96	54.04	54.88	55.72	56.32
4.48	3.40		1.72	1.12
4.48	4.48	3.40	2.62	2.62
0.0	F1.08	3.50	F2.90	F1.50
	3.40	3.50	1.82	18.3
			1.72	

4+75

53.67	54.75	55.59	56.43	57.03
3.77	2.69		1.01	0.41
	2.69		0.41	0.41
	2.69		0.60	0.0
	2.79		1.01	
			1.11	

57.44

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Finch Grader South East Corner Loop.

Edge Box
March 9-51
H.S. No. 1
Garber
Rortz
Bertolone

Feb. 17. 51
H.S. No. 1
Garber
Rortz

+25

+10

+75

+50

+1206 = App 99 + 50.75 Habarsh

+25

0+0 = B.C.

BM 7.32

59.82

52.50

RPNN
782N
5074.

Stdr.	F.P.	F.P.	F.P.	Stdr.
		17.41	11.94	53.133
		8.44		47
		1		Havit 11-51
		2		A.C. Edgort
		3		BM 52.50
		4		RPNN
		5		7.02
		6		59.82
51.55	52.63	53.47	54.31	55.15
	7.19	7.19	5.51	5.51
	7.19	7.19	5.51	5.51
	7.21	7.21		
51.41	52.54	53.38	54.22	55.18
8.36	7.28		5.60	1.64
8.36	8.36		8.74	6.74
0.0	7.08	7.08	6.54	6.54
	7.28	7.28	5.60	5.60
	7.28	7.28	5.60	5.60
51.54	52.59	53.41	54.23	
	7.23	7.23	5.59	5.59
	7.23	7.23	5.59	5.59
51.95	52.89	53.62	54.35	
7.87	6.93		5.17	
7.87	7.87		5.17	
6.0	6.91		5.17	
	6.93		5.17	
	7.02			
52.63	53.39	53.99	54.58	
	6.43		5.24	
	6.43		5.24	
	6.53		5.34	
53.37	53.95	54.41	54.86	
6.45	5.87		4.96	
6.45	6.45		5.06	
6.9	6.58			
17	8			
	5.87			
	5.87			
	5.97			

3+0

Sbdr.	F.P.	+	F.P.	Sbdr.
55.17	56.25	Control Pt.	57.93	58.53
465	3.57	57.09	1.89	1.89
465	4.65		1.29	1.29
0.0	F1.08		0.60	0.0
	3.57	3.57	1.99	
	4.65	4.65	1.97	

HC. 1.50
 57.89
 1.29
 57.89
 12.52
 70.7 57

+75

54.31	55.42	56.86	57.10	57.70
	4.38		2.72	
	4.70		2.72	
	4.5		2.83	

+50

53.61	54.69	55.53	56.37	56.97
6.21	5.13		3.45	4.85
6.21	6.21		2.85	2.85
0.0	F1.08		0.60	0.0
	5.13		3.45	3.45
	6.21		3.55	3.55

+25

52.98	54.06	54.90	55.74	56.34
	5.76		1.08	
	5.76		4.98	
	5.86		4.78	

2+0

52.47	53.55	54.39	55.23	55.83
7.35	6.27		4.59	5.99
7.35	7.35		3.99	3.99
7.00	F1.08		0.60	0.0
6.27	6.27		4.59	4.59
6.37			4.59	4.59

+75

52.05	53.13	53.97	54.81	55.41
	4.69		5.01	
	6.69		5.01	
	6.79		5.71	

1+50

51.75	52.83	53.67	54.51	55.11
8.07	6.99		5.31	4.59
8.07	8.07		4.59	4.59
0.6	F1.08		0.60	0.0
	6.99		5.31	5.31
	8.07		5.71	5.71

59.82

+75

Sbdr	F.P.	#	F.P.	Sbdr
62.10	63.18	Center of Pen. 64.02	64.86	65.46
	7.17		5.49	
	7.10		5.48	
	7.27		5.52	

HC Edggs
70351

+50

61.10	62.18	62.02	63.86	64.46
9.25	8.17		6.49	5.89
9.25	9.25		7.84	7.89
0.0	F1.08		F1.40	F2.00
	8.17		6.49	7.40
	8.17		6.57	
	8.27			

+25

60.10	61.18	62.02	62.86	63.46
	9.17		7.49	
	9.17		7.49	
	9.27		7.59	

+10

59.11	60.19	61.03	61.87	62.47
11.21	10.16		8.48	7.88
11.22	11.22		9.58	9.58
0.0	F1.08		F0.90	F1.70
	10.16	10.16	8.48	7.88
	10.25		8.58	

+75

58.11	59.19	60.03	60.87	61.47
	11.16		9.49	
	11.16		9.48	
	11.25		9.58	

+50

57.12	58.20	59.04	59.88	60.48
13.23	12.15		10.49	9.89
	12.15		9.57	9.87
	12.15		10.47	10.47
	12.25		10.57	

3+25

56.12	57.20	58.04	58.88	59.48
	13.15		11.49	
	13.15		11.47	
	13.25		11.57	

TP 12.40 70.35 1.87 57.95
59.82

13.15
13.25
13.25

Sbdr.	EP	Center of Pa	EP	Sbdr.
69.07	70.15	70.99	71.83	72.43
8.94	7.85		6.18	5.58
8.94	8.94		7.57	7.57
0.0	F1.08	7.86	6.18	F2.00
	7.85	7.86	6.28	7.70
68.08	69.16	70.00	70.84	71.44
	8.85		7.17	
	8.85		7.17	
	8.85		7.27	
67.08	68.16	69.00	69.84	70.44
10.92	9.85		8.17	7.57
12.23	12.23		9.97	9.97
F1.20	F2.38	2.19	F1.80	F2.40
7.90	8.85	7.86	0.51	14.6
	9.85	9.85	7.17	
66.08	67.16	68.00	68.84	69.44
	10.85		9.17	
	3.19		1.81	
	3.19		1.81	
	3.19		1.81	
IP	10.08	78.01	2.42	67.93
65.09	66.17	67.01	67.85	68.45
5.56	4.18		2.50	1.90
5.36	5.36		3.90	3.90
0.0	F1.08		F1.40	F2.00
	4.18	4.18	2.50	1.90
	4.28			
64.09	65.17	66.01	66.85	67.45
	5.18		3.50	
	5.18		3.50	
	5.18		3.50	
63.09	64.17	65.01	65.85	66.45
7.26	6.18		4.50	3.90
7.26	7.26		6.40	6.40
0.0	F1.08		F1.90	F2.50
	6.18	6.18	4.50	1.8
	6.28			

+50

+25

6+0

+75

IP

+50

+25

5+0

70.35

70.35
70.68
69.73
8.38
78.07

Finish Grader South East Inner Loop

Sbdr. I.P. $\frac{1}{\text{costs of rev.}}$ I.P. Sbdr. 51

+10.64 EC = Opp

Gr. 37 - cost 10.911
75.39
2.62
2.60 on 8/10

74.37 74.96 75.42 75.85
3.05 2.18 H.C. Feders
7801

8+0

74.04 74.72 75.25 75.77
3.97 3.29 2.24
3.97 3.29 2.24
0.0 10.68 3.39 2.37

+75

73.29 74.12 74.78 75.43
3.88 3.88 2.58 2.58
3.98 2.68

+50

72.43 73.43 74.21 74.98
5.58 4.58 3.80 3.03
5.58 5.58 4.58 3.03
0.0 11.00 1.68 1.68
4.58 4.68 5.13

+39.19 = Opp 37 + 96.73 Federal

+25

71.64 72.71 73.55 74.38 75.09
5.20 3.63
5.38 3.63
5.40 3.75

7+0

70.90 71.98 72.82 73.66 74.28
7.11 6.03 4.35 3.75
7.11 7.11 5.75 5.25
0.0 11.08 1.35 1.35 1.35
6.03 6.03 4.35 4.35
6.13 6.13 4.35 4.35

6+75

70.05 71.13 71.97 72.81 73.41
6.88 5.30
6.88 5.30
6.88 5.30
6.88 5.30

7801

Finish Grader Access Road

Sheet 25

2+0
+75
TP 0.23 88.31 11.84 88.08

+50
+25

1+0
+75
+60 Jetter MH Top 96.83

+50
+25

0+0

BM 1.03 99.92 98.89

NF 107
Broadway
43450

Stdr	FP	Z	EP	Stdr
84.36	84.36 3.95	84.80	85.30 0.01	85.30
	86.76 1.55	87.26	87.76 0.55	
89.22	89.22 10.70	89.72	90.22 9.70	90.22
	91.50 8.72	92.00	92.50 7.43	
93.55	93.55 1.27	93.92	94.39 5.85	94.29
	95.28 1.84	95.48 5.68	95.68 4.22	
		96.20 0.50		
96.65	96.65 3.27	96.68 3.27	96.71 3.31	96.71
	97.65 2.27	97.62 2.10	97.89 2.52	
	98.30 1.62	98.00 1.92	97.70 2.22	97.70
BM	1.03 99.92	98.89		

April 14-51
70.00052
Garber
Porg
Berkelaci

NF 107
Broadway
BM 9489
2.77
101.8 81

Finish Grader Access Road.

Cont Page 23

+95.93

+75

81.50

8+26

88.81

53

Sbdr.	EP.	$\frac{1}{2}$	EP.	Sbdr.
	78.30	78.30	78.70	79.10
		10.01		9.31
		78.93	79.41	79.89
		9.33		8.42
	80.21	80.21	80.71	81.21
		8.10		7.10
		82.01	82.51	83.01
		6.30		5.30

Access Road

10+0

+75

+50

+25

9+0

+75

+50

+25

8+0 PCC

8+0

PCC

HC
66.03
5.28
71.91
11.80
11.01
11.00

Shdr.	EP	Z	EP	Shdr.
	64.97	65.09 6.82	65.49	65.79 6.12
		65.31 6.60	65.78	66.25 5.66
	65.29	65.48 6.43	66.12	66.76 5.15
		65.87 6.21	66.47	67.19 66.29 4.72
	65.78	66.02 5.89	66.82	67.62 4.29
		66.37 5.54	67.17	67.97 3.91
	66.55	66.77 5.14	67.51	68.25 3.66
		67.27 4.64	67.84	68.42 3.49
		67.76 4.15	68.48	68.70 3.21

Access Road

Sdr.

E.P.

$\frac{1}{2}$

E.P.

Sdr.

55

11+07

65.13

65.25
6.66

65.65

65.25
6.66

65.25

+80

64.95 - 65.07
6.82

65.07
6.82

65.07

10+50

64.73

64.85
7.06

65.25

64.85
7.06

64.85

10+25

64.99
6.92

65.34

65.48
6.92

out

Finish Grades Federal Blvd
Sdr. MGP 36.4

Gutter

f

Gutter

Sdr.

Sdr.

Also Page 19

March 1951

56

+75

62.70.
9.07
9.27
8.47

63.50.
8.37
8.47

64.94.

64.94.
6.83
7.03

66.68.
5.39
5.27
70.02 on Dec

+50

62.76.
9.06
9.13
8.13

63.58.
8.19
8.38

65.02.

65.02.
7.75
6.73

66.46.
5.87
70.06 on Dec

+25

62.86.
8.96
9.08
8.27

63.70.
8.02
8.27

65.14.

65.14.
6.63
6.82

66.58.
5.19
5.22
70.93

45+0

62.96.
8.86
8.92
11.00

63.80.
7.97
8.12

65.27.

65.27.
6.50
6.27

66.71.
5.06
5.00 on Dec
6.06

+75

62.96.

63.98.
7.73
7.96

65.42.

65.42.
6.05
6.33

66.86.
4.91
4.92 on Dec

+50

64.16.
7.66
7.78

65.60.

65.60.
6.19
6.37

67.04.
4.73
4.70

+25

64.37
7.40 ^{on Bridge}
7.42 ^{on Co n Dec}

65.81.
5.96

65.81.
5.96
6.37

67.25.
4.52
4.67

44+0

66.04.
on Dec

66.04.

67.48.
4.39
4.26

13 +75

B.M.

636.

71.77

65.41

B.P. curb
47+11

67.74
4.03
4.02 on Dec

Stdr. My EP 26 11

Gutter

2

Also Page 20
Gutter

26 11

Stdr.

57

B.F.C.S.
47-11

B/M 65.41
8.19
68.60

+75
63.80
4.80
4.92
64.01
4.89
4.72

65.16
3.76
3.76
65.16
or less

65.16
66.19

+50
63.38
5.22
1.59
5.39
5.38
63.78
4.82
4.79
4.99
4.99 or 300

65.04
3.56
3.59
65.04
or less

65.04
66.23

+25
63.04
5.56
5.73
63.61
4.99
5.76

64.96
3.64
3.64
64.96
or less

64.96
66.27
2.33

47+0
62.80
5.89
5.97
63.48
5.12
5.22

64.89
3.71
3.68
64.89
or less

64.89
66.29
2.51

+75
62.70
9.07
9.24
63.42
8.35
8.52

64.86

64.86
6.91
7.08
66.30
3.97

+50
62.66
9.11
9.28
63.40
8.37
8.54

64.84

64.84
6.97
7.14
7.07 or 1/2
66.28
5.19
3.55
F.O.S.

+25
62.65
9.12
9.29
63.41
8.36
8.53

64.85

64.85
6.93
7.10
7.07
66.29
5.18
5.18
5.0

46+0
62.67
9.18
9.27
9.27
63.45
8.31
8.49
8.47

64.89

64.89
6.88
7.05
66.33
5.17
5.52
F.O.S.

B/M

6.36

71.77

65.41

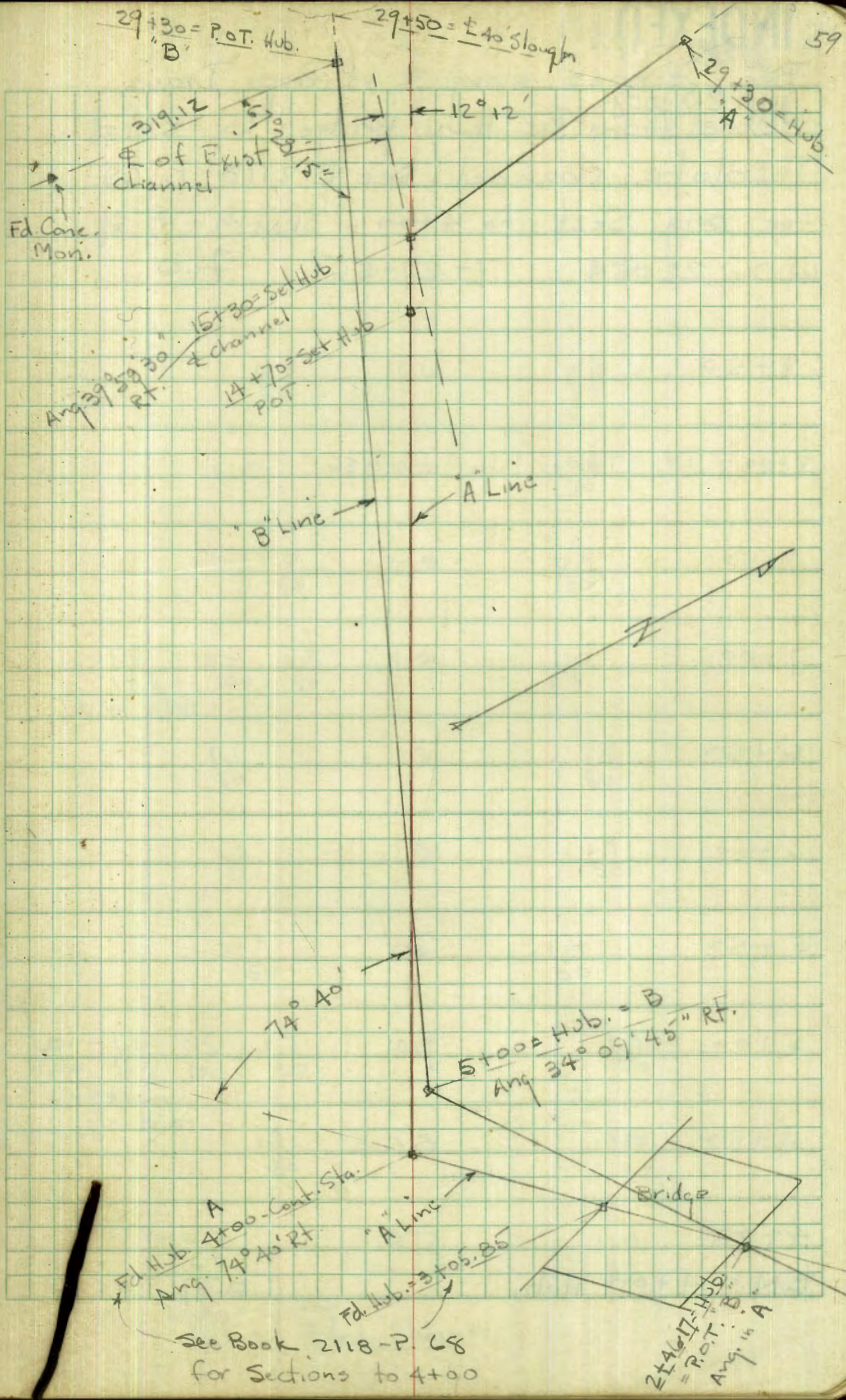
B.F.C.S.
47-11

	Stdr.	W/EP	26 Lt	Quitar	2	Quitar	26 Ft.	Stdr.	
50 + 0		67.20.		67.41.		17.41.	67.22.		68.607
+75		66.82.		67.06.		67.06.	66.90.		
+50		66.41.		66.71.		66.71.	66.62.		
+25		65.97. 2.63 12 2.80		66.38.		66.38.	66.41.		
49 + 0		65.53. 3.97 12 3.27		66.10.		66.10.	66.28.		
+75		65.18. 3.43 12 3.59		65.85.		65.85.	66.21.		
+50		64.85. 3.75 12 3.93		65.64.		65.64.	66.17.		
48 + 25		64.52 4.08 12 4.35	64.54.	65.45. 3.15 2.18 on com.		65.45.	66.15.		
47 + 97.48	EC. 63.59.	64.11. 4.46 12 4.63 1.53 1.80	64.23. 4.37 12 4.34 00	65.28. 8.37 2.50 on com.		65.28.	66.16.	66.54.	

15 30
 14 00
 29 30

29+30 - "B" Line - 1.54 = Hjb
 29+50 = "A" Slough - 6.54 Bottom

29+30 - "A" Line - 2.45 = Hjb
 15' Lt. = Low Point - 3.90



See Book 2118 - P. 68
 for Sections to 4+00

2146.17 = Hjb.
 = P.O.T. "B"
 Ang. in "A"

INDEXED

Beq. Sections along E of Prop. Drain
 JUL 28 1954
 channel from Pac. Hwy Bridge to Exist
 Tecolote channel. See B. 2118-P. 68
 for orig. Sect. to 4+00 - Sketch - P. 59
 W.O. 22054 7-27-55 7.0.

8+50	
8+00 - T.P. - Top of Lath	0.86
7+50	
7+00	
6+50	
6+00	
5+50	
5+00	-1.2 23.0
4+50	± Main Channel
4+00	
B.M. = 4+00 Hub.	0.77

Lt. ± Rt. 60

	0.4 50	0.6	0.7 50
	0.7 50	0.4	0.9 50
	1.0 50	0.8	0.9 50
-1.8 145 ± 10' Ditch	0.4 100	0.9 50	1.0 50
	1.1 50	1.3	1.5 50
	1.2 50	1.3	1.7 50
	0.7 50	1.5	1.4 50
1.0 - 1.2 200 165 100 50		0.9	1.2 50
± Channel From Bridge	1.9 50	1.3	1.5 50
-0.2 60 ± old channel Thru Bridge & Wash		0.77 on Hub	1.0 50

Actual Elev. Shown.

100' ahead along \pm of Creek = into Tidal Slough

15+30 = end = \pm Creek

14+70 = Bank of Creek

14+00

13+35 - 50 Rt. = \pm of Ave. 20 wide Bottom for
Tecolote Creek Channel - Straight from Here to Bridge
(at Ang Pt)

13+00 - T.P. Top Lath = 1.37

12+50

12+00

11+50

11+00

10+50 = \pm Ditch - 10' Bottom

10+00

9+50

9+00

Lt

\pm

Rt.

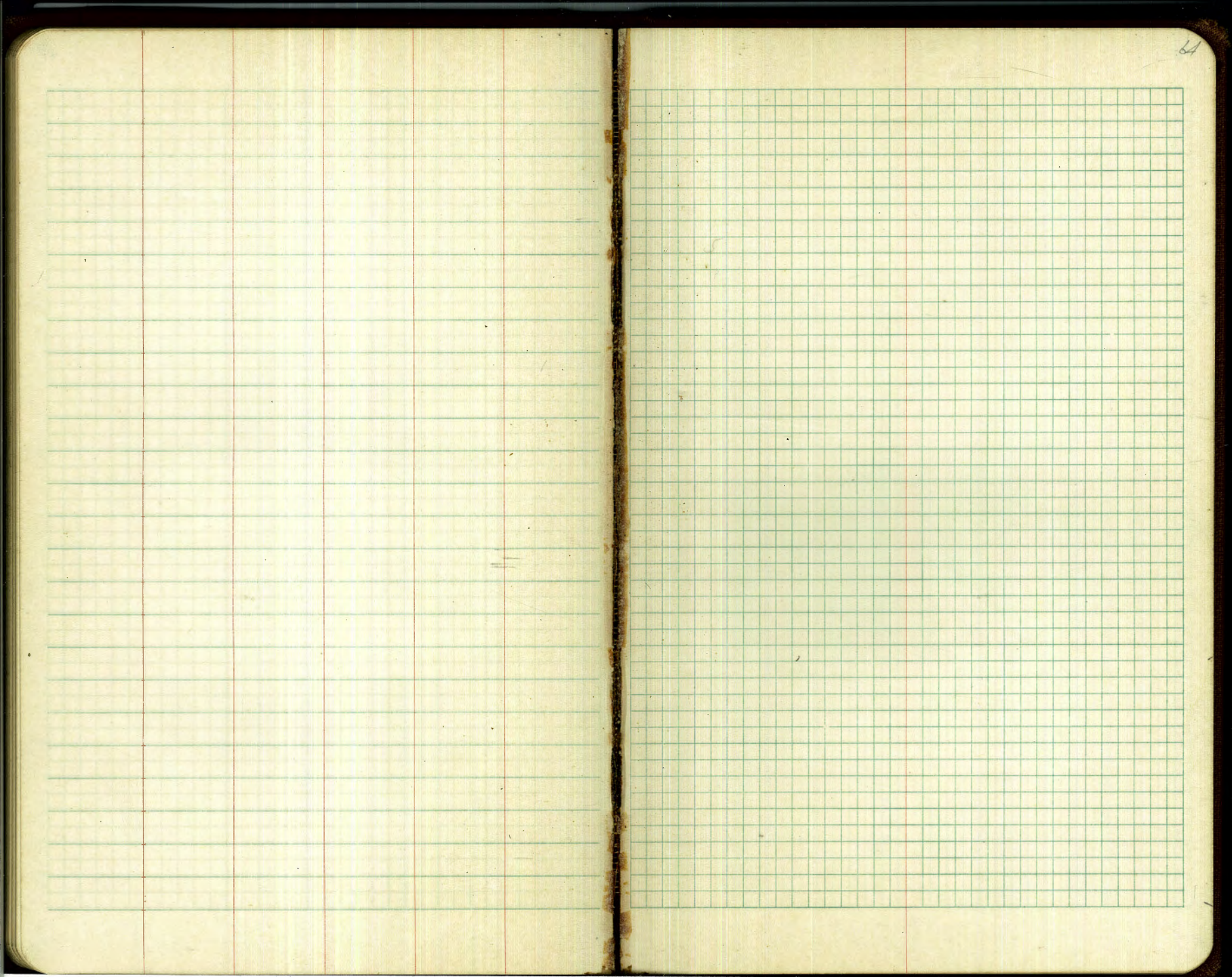
61

\pm = 3.9 = Bottom

0.5 52	0.7 17	-1.6 10 Bottom	-2.18 on Hub	-1.9 8 Bottom	0.3 10	3.2 27 Top Dyke	
	0.3 50	0.86 on Hub	-1.9 5 Bottom	-1.6 20	3.2 45 = Top Dyke		
	0.8 50	0.9	1.2 17	-1.4 20 Bottom	-1.0 37	2.6 55 = Top Dyke	
	0.8 52	1.2	1.0 32	-1.3 40 Bottom	-1.0 50	0.9 43	
	1.0 50	1.3	1.7 50				
	1.3 50	1.3	1.4 50				
	1.1 50	0.9		1.2 50 = \pm about end of Ditch			
	-0.3 50 Low point	0.9	0.3 30 \pm Ditch	2.6 45	0.4 53		
	0.7 50	0.4	-0.4 13 \pm Ditch	2.0 25	0.8 35	0.4 50	
	0.3 50	1.1 11	-0.8	2.9 16	-0.2 25	-0.3 50	
	0.5 60	0.3 30	-1.5 19 \pm Ditch	1.4	0.5 10	0.7 50	
0.3 48 Bank	-2.1 40 \pm channel	3.9 19 Top Dyke	1.4 10 Top	1.3		0.4 50	
	-1.9 65 \pm channel by Dyke 12 wide	0.8 30	0.8			0.7 50	

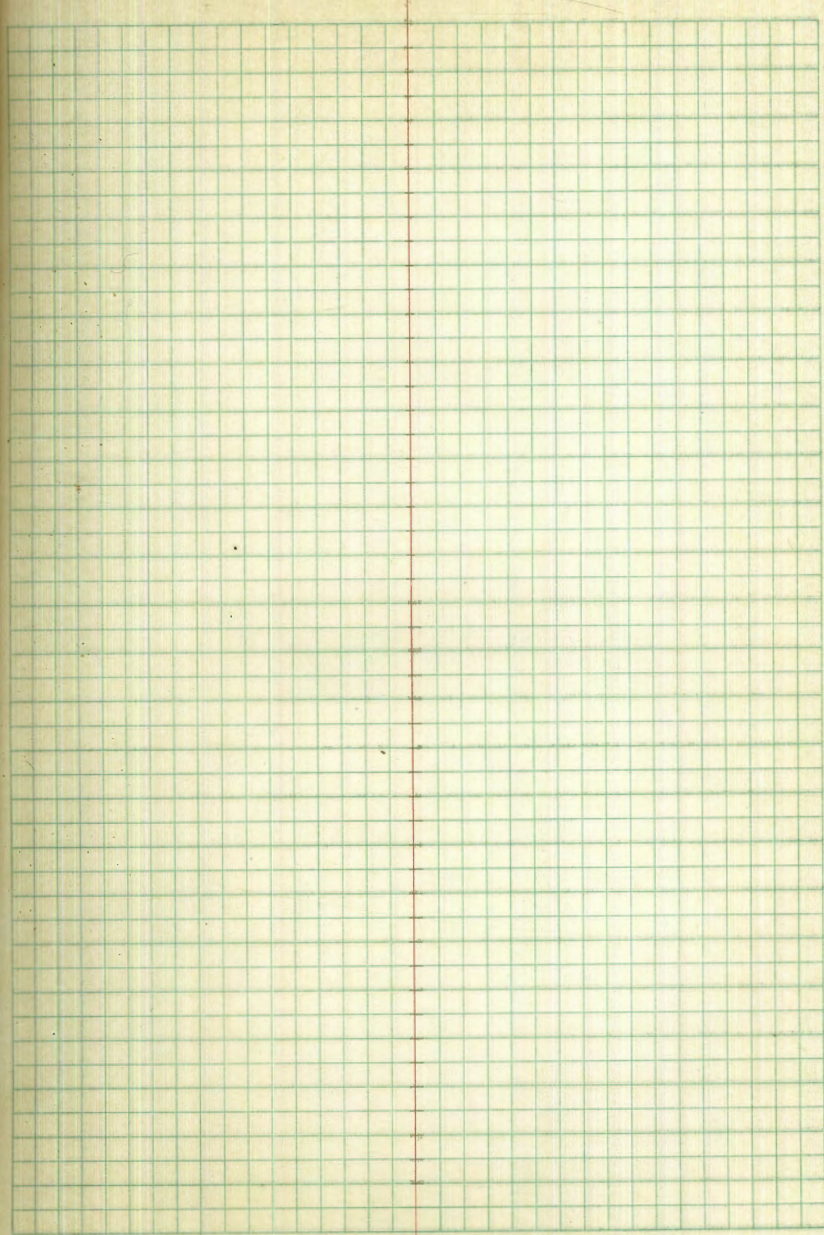
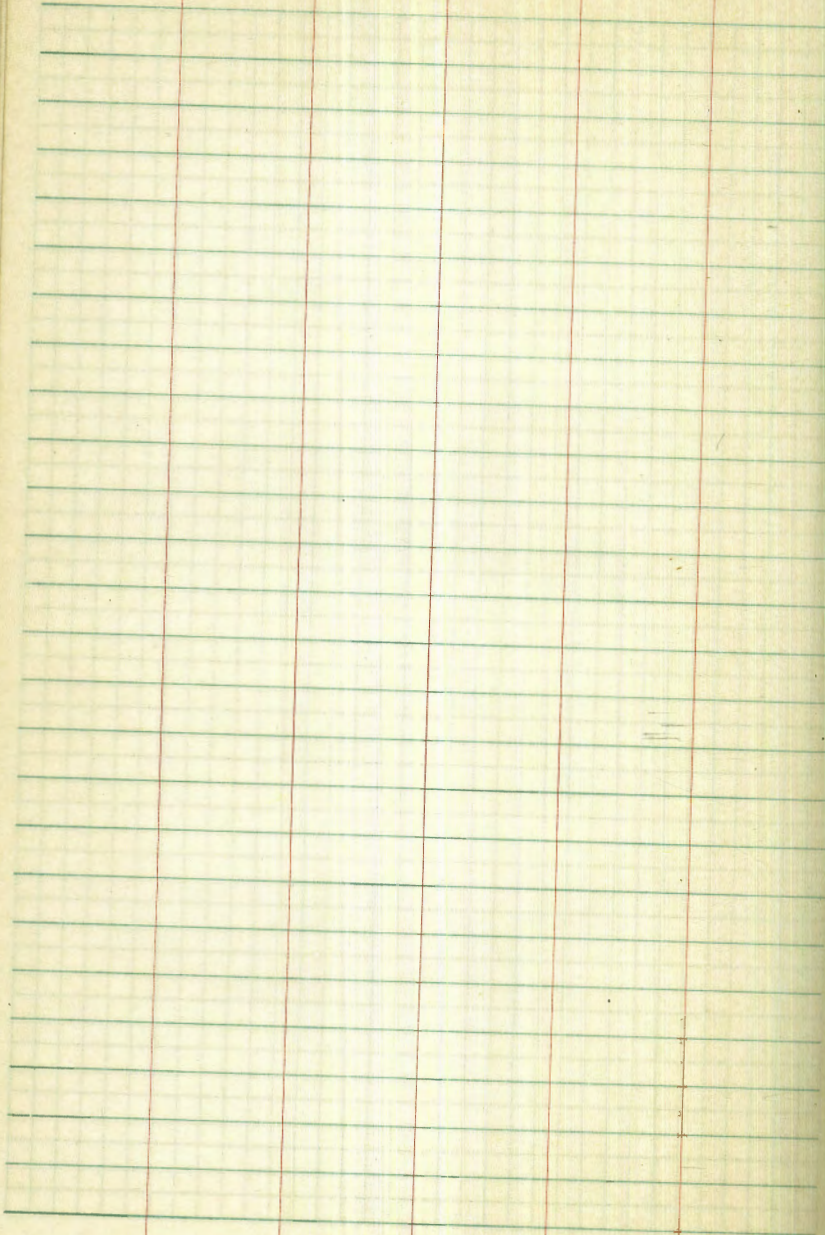
This page is a blank ledger with a grid of horizontal and vertical lines. The grid is defined by four vertical red lines and numerous horizontal green lines, creating columns and rows for data entry.

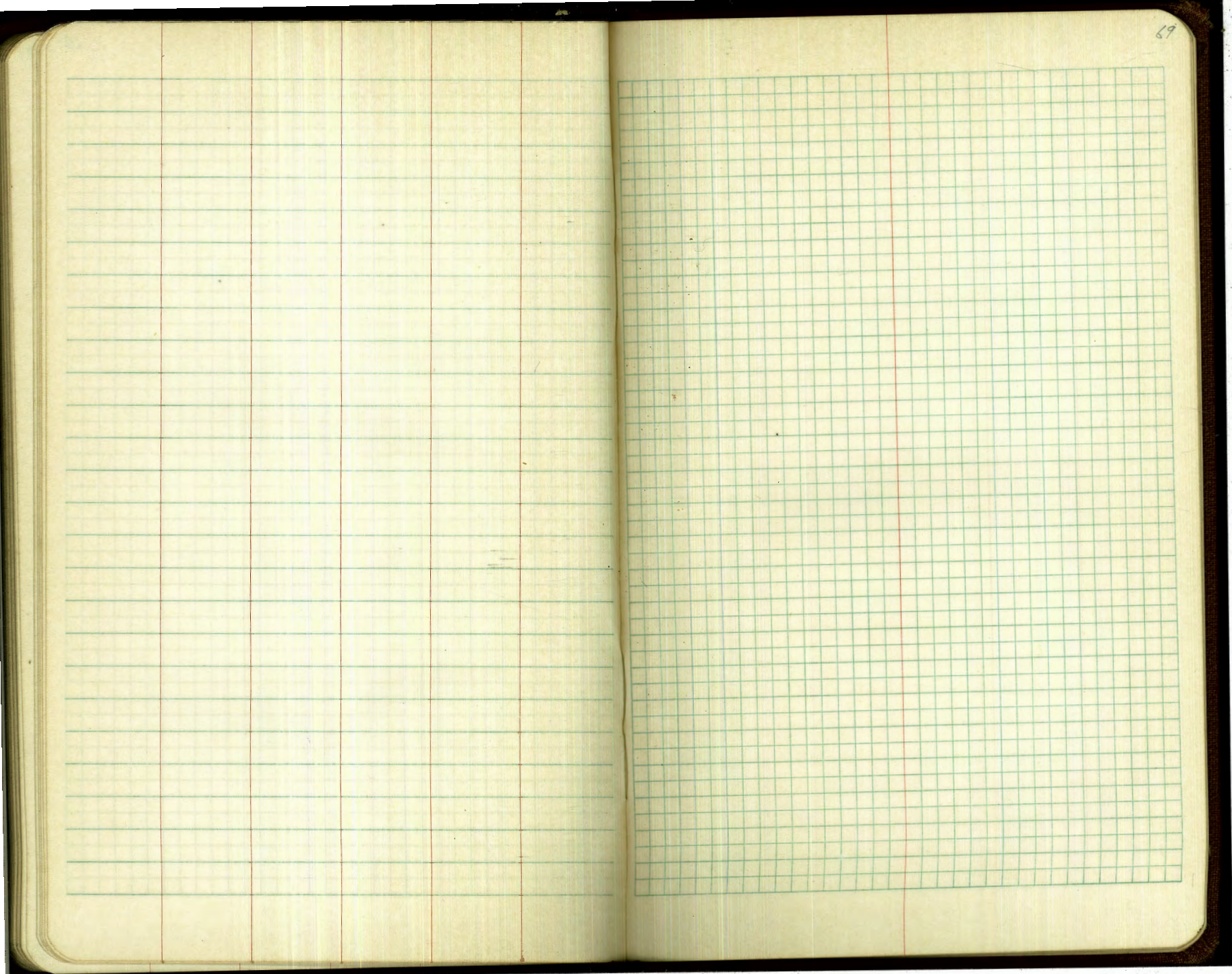
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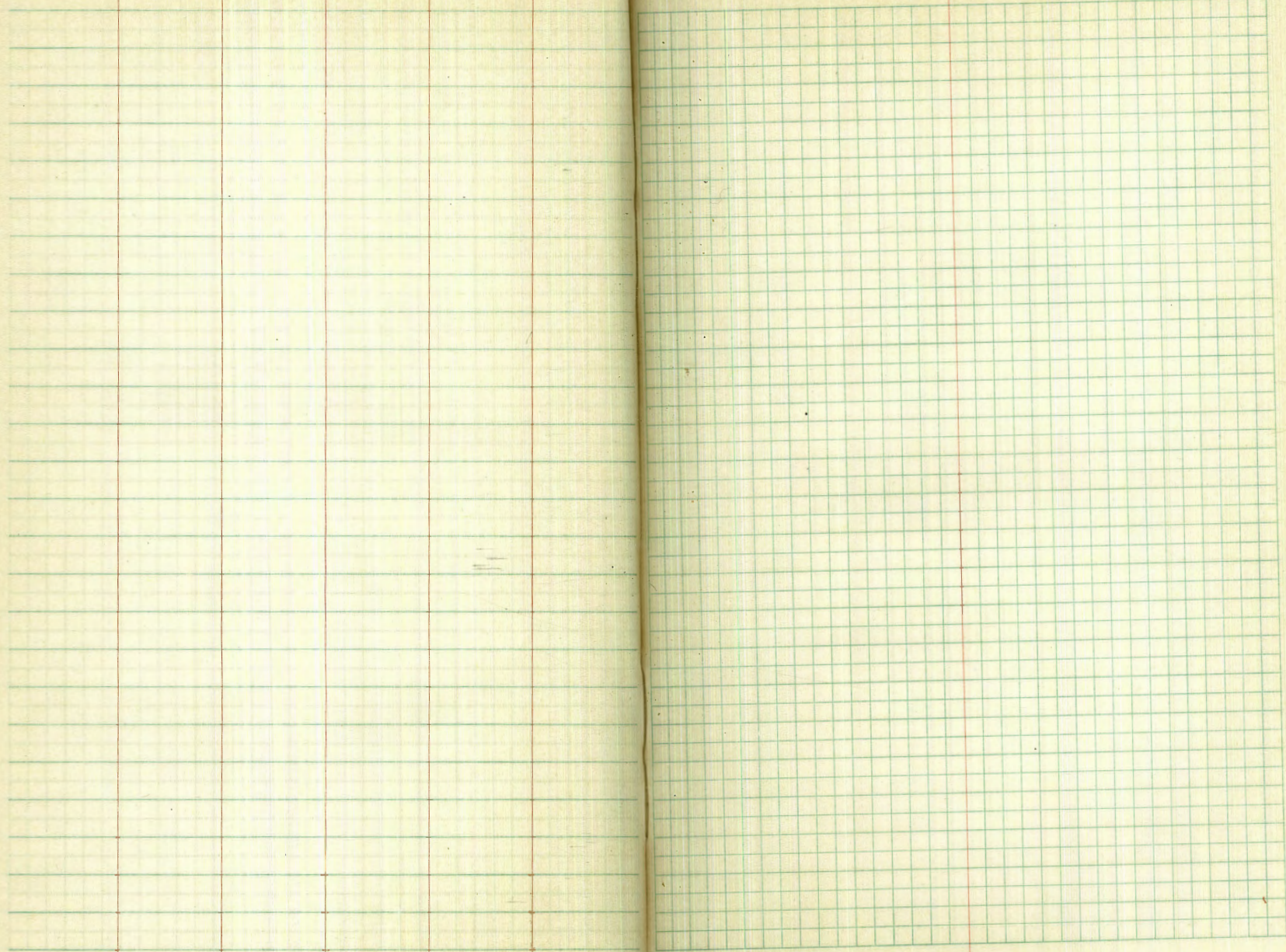


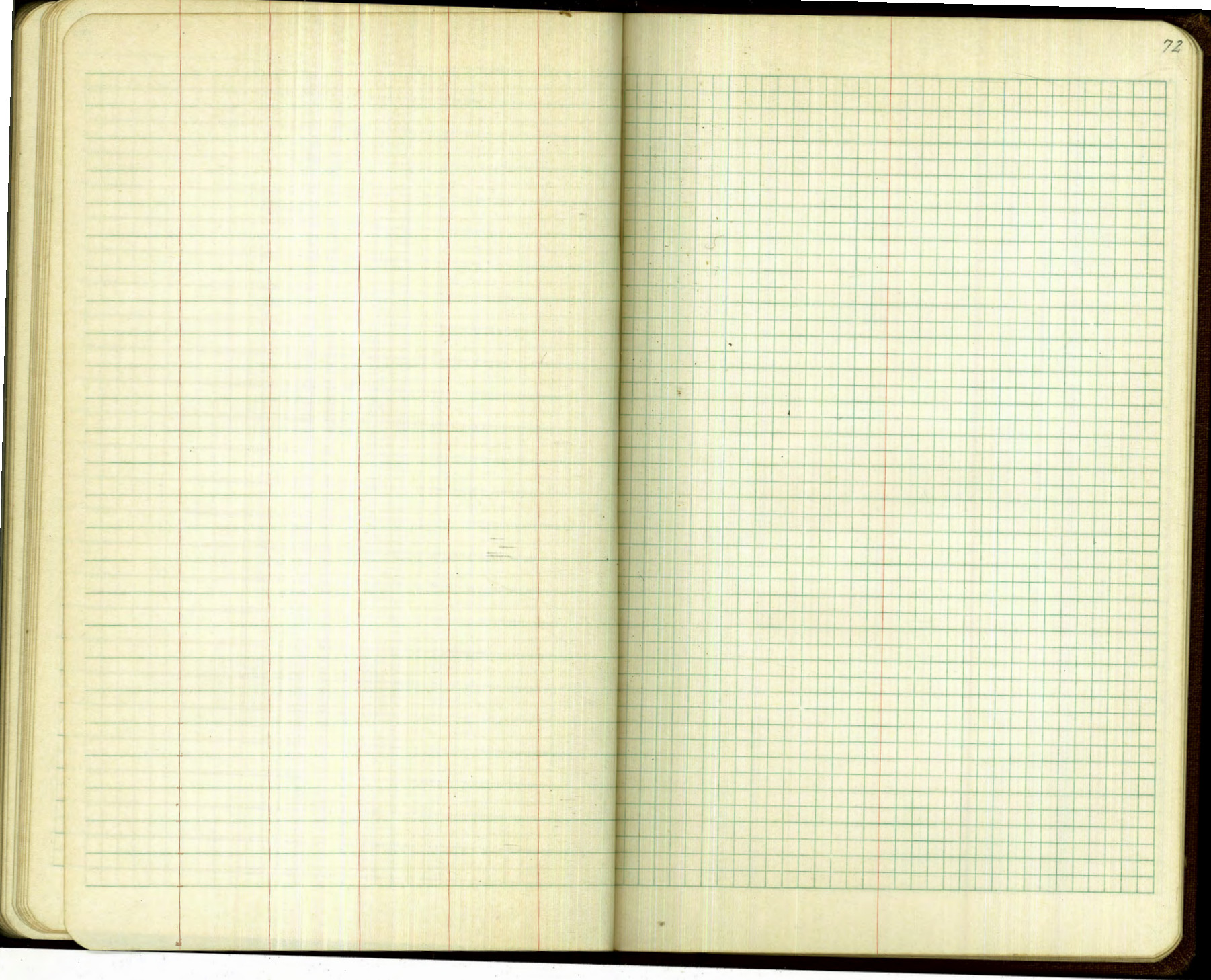
A ledger page with a grid of 20 columns and 20 rows. The grid is formed by green lines. There are three vertical red lines that create four columns of varying widths: a narrow column on the far left, a wide column, a narrow column, and a wide column on the far right. The remaining 14 columns are of uniform width.

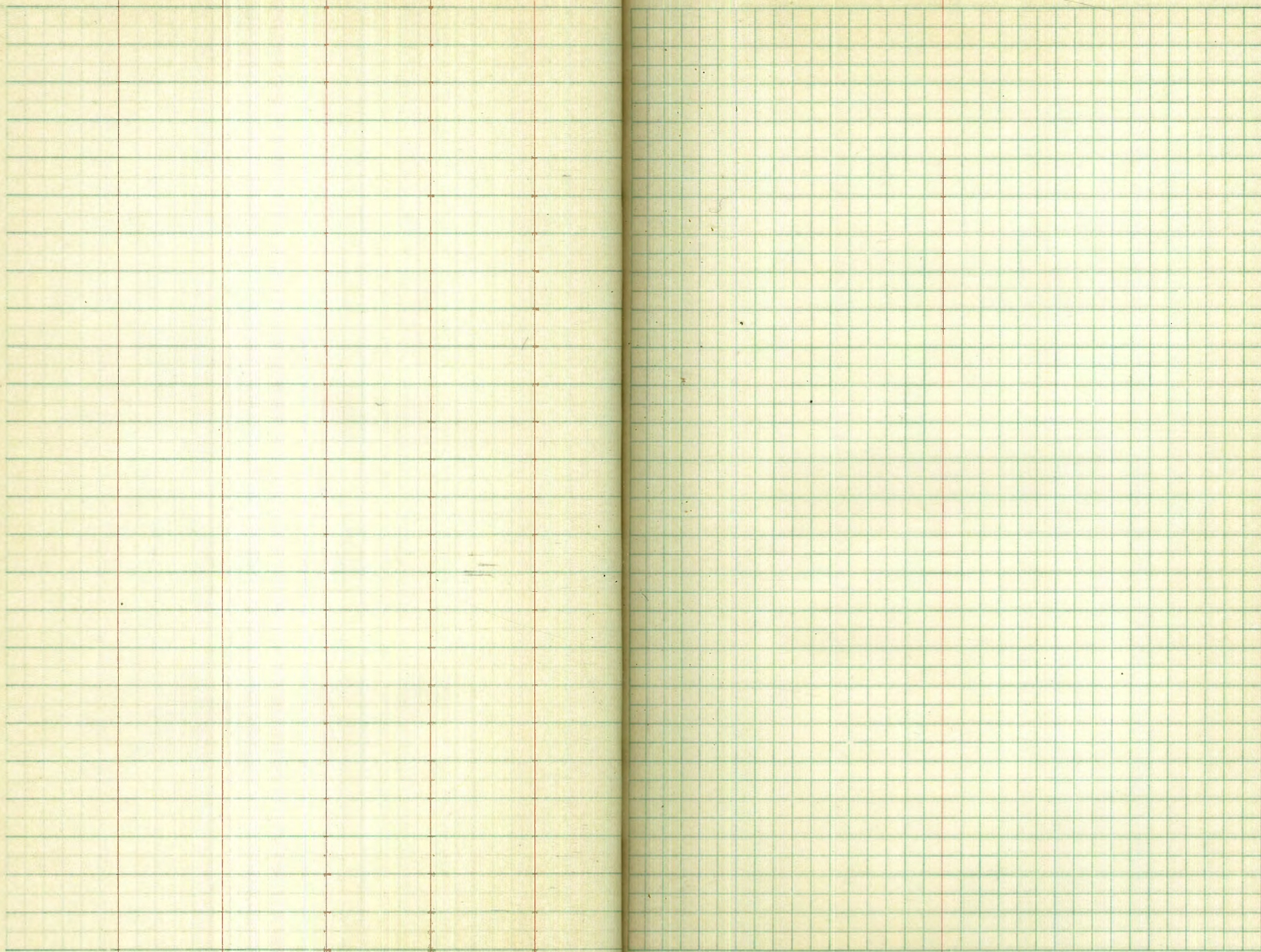
A ledger page with a grid of 20 columns and 20 rows. The grid is formed by green lines. There is one vertical red line on the far left side, creating a narrow column. The remaining 19 columns are of uniform width.



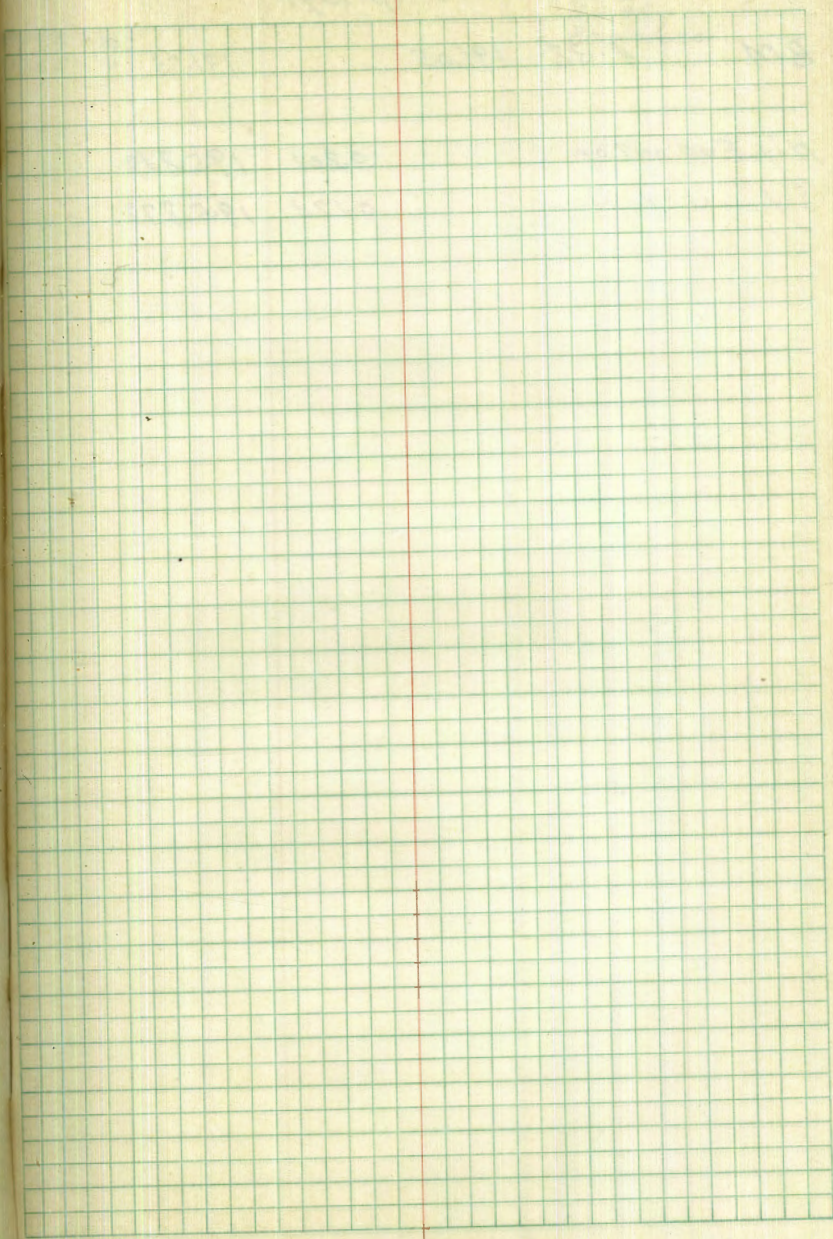
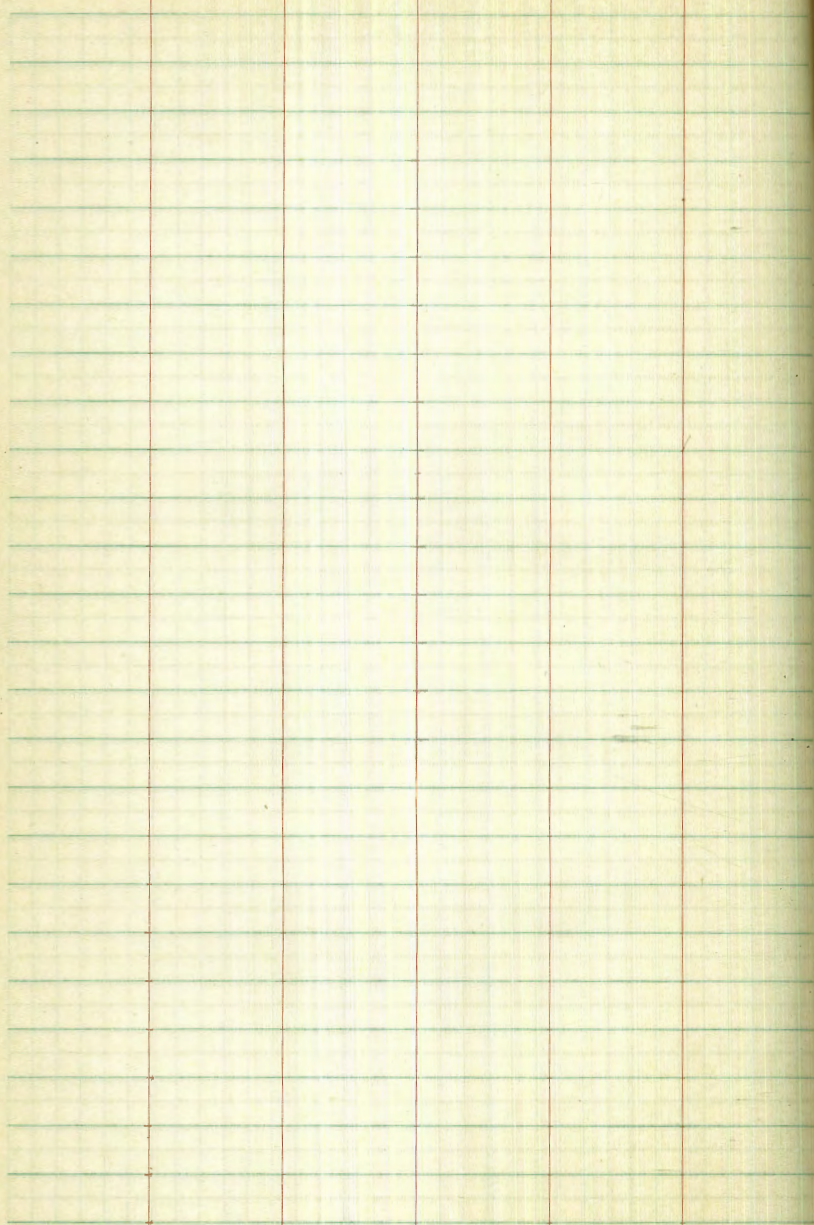








The image shows two pages of graph paper from a notebook. The left page is ruled with a red margin line on the left and a red margin line on the right, creating a central grid area. The right page is ruled with a red margin line on the left, creating a single grid area. The grid lines are green. The pages are blank and have a yellowish tint.



Level North West End Post
Hobart Blvd + Nile St. Bridge

BM 4.32 196.05 191.73

B.P. H/10/11
at 176 + 35

NW End on top 0.201 195.849

Sky " " " 0.173 195.877

Feb. 27 - 51 78

H. S. 502
Garber
Ravel
Bertolucci

Level North West End Post.
Wabash Blvd & Federal Blvd Bridge

B.M.	7.84	81.50	7.266	B.P. H 12103 Rt 31-10 Federal
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B.M.		3.956	77.544	Chase / x Co Wabash Blvd
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W. End on Top	0.362	81.138		
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Ely " " "	0.345	81.155		
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Feb. 27. 51.

79

5+00

Ang. 34° 09' 45" Rt.

29+30 - POT. Hub. - 67° 28' 15"

5' Below Hub

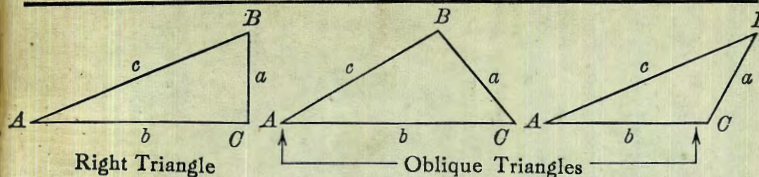
29+55 = 40' slough

Mon
319.12

29+30 Hub. = -2.45
1.45
-3.90

154
500
-654

TRIGONOMETRIC FORMULÆ



Solution of Right Triangles

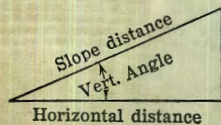
For Angle A. $\sin = \frac{a}{c}$, $\cos = \frac{b}{c}$, $\tan = \frac{a}{b}$, $\cot = \frac{b}{a}$, $\sec = \frac{c}{b}$, $\text{cosec} = \frac{c}{a}$

Given	Required	Formulas
a, b	A, B, c	$\tan A = \frac{a}{b} = \cot B$, $c = \sqrt{a^2 + b^2} = a\sqrt{1 + \frac{b^2}{a^2}}$
a, c	A, B, b	$\sin A = \frac{a}{c} = \cos B$, $b = \sqrt{(c+a)(c-a)} = c\sqrt{1 - \frac{a^2}{c^2}}$
A, a	B, b, c	$B = 90^\circ - A$, $b = a \cot A$, $c = \frac{a}{\sin A}$
A, b	B, a, c	$B = 90^\circ - A$, $a = b \tan A$, $c = \frac{b}{\cos A}$
A, c	B, a, b	$B = 90^\circ - A$, $a = c \sin A$, $b = c \cos A$

Solution of Oblique Triangles

Given	Required	Formulas
A, B, a	b, c, C	$b = \frac{a \sin B}{\sin A}$, $C = 180^\circ - (A + B)$, $c = \frac{a \sin C}{\sin A}$
A, a, b	B, c, C	$\sin B = \frac{b \sin A}{a}$, $C = 180^\circ - (A + B)$, $c = \frac{a \sin C}{\sin A}$
a, b, C	A, B, c	$A + B = 180^\circ - C$, $\tan \frac{1}{2}(A - B) = \frac{(a - b) \tan \frac{1}{2}(A + B)}{a + b}$, $c = \frac{a \sin C}{\sin A}$
a, b, c	A, B, C	$s = \frac{a + b + c}{2}$, $\sin \frac{1}{2}A = \sqrt{\frac{(s - b)(s - c)}{bc}}$, $\sin \frac{1}{2}B = \sqrt{\frac{(s - a)(s - c)}{ac}}$, $C = 180^\circ - (A + B)$
a, b, c	Area	$s = \frac{a + b + c}{2}$, $\text{area} = \sqrt{s(s - a)(s - b)(s - c)}$
A, b, c	Area	$\text{area} = \frac{bc \sin A}{2}$
A, B, C, a	Area	$\text{area} = \frac{a^2 \sin B \sin C}{2 \sin A}$

REDUCTION TO HORIZONTAL



Horizontal distance = Slope distance multiplied by the cosine of the vertical angle. Thus: slope distance = 319.4 ft. Vert. angle = 5° 10'. From Table, Page IX. $\cos 5^\circ 10' = .9959$. Horizontal distance = $319.4 \times .9959 = 318.09$ ft. Horizontal distance also = Slope distance minus slope distance times (1 - cosine of vertical angle). With the same figures as in the preceding example, the following result is obtained. $\text{Cosine } 5^\circ 10' = .9959$. $1 - .9959 = .0041$. $319.4 \times .0041 = 1.31$. $319.4 - 1.31 = 318.09$ ft. When the rise is known, the horizontal distance is approximately: the slope distance less the square of the rise divided by twice the slope distance. Thus: rise = 14 ft. slope distance = 302.6 ft. Horizontal distance = $302.6 - \frac{14 \times 14}{2 \times 302.6} = 302.6 - 0.32 = 302.28$ ft.