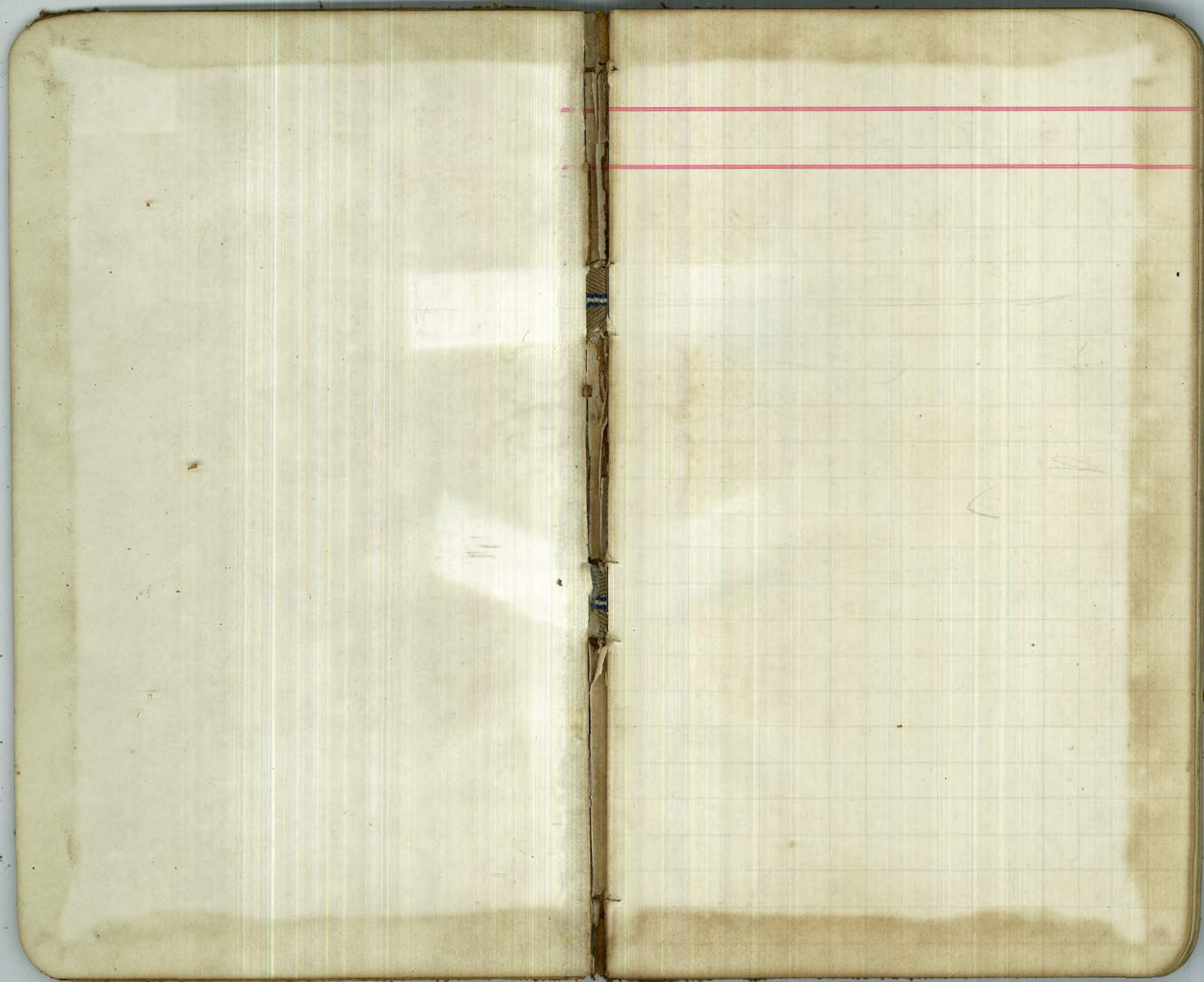


City Sewerage
7th St. Levels

9

TRANSIT

F.B. 669



H. G. L. } July 11/67
 S. G. M. }

1

Δ	+	HI	-	Elev	HA
HM	0.23	9.34		9.11	
$\Delta 1$			7.10	2.24	
1+50			6.50	2.84	
$\Delta 2$			6.12	3.22	
2+50			5.50	3.84	
$\Delta 3$			4.50	4.84	
3+40			3.79	5.55	
$\Delta 0$			3.35	5.99	
0+50			2.63	6.71	
$\Delta 1$			1.69	7.65	
TP	9.43	17.08			
1+50			8.74	8.34	
$\Delta 2$			8.17	8.91	
2+50			7.60	9.48	
$\Delta 3$			6.69	10.39	
3+40			5.40	11.68	
$\Delta 0$			5.82	11.26	
0+50			5.18	11.90	
$\Delta 1$			4.71	12.37	
1+50			3.93	13.15	
$\Delta 2$			3.23	13.85	

II

II & 7 ST.

II & 7 ST.

H.C.L. } July 11/87
 S.B.M. 5

Δ	+	HI	—	File	HI
2+50		17.08	2.55	14.53	
$\Delta 3$			1.55	15.53	
3+40			1.25	15.83	
$\Delta 0$			0.66	16.42	
T.P			0.83	16.25	
T.P	9.15	25.40			
0+50			8.57	16.83	
$\Delta 1$			8.09	17.31	
1+50			7.65	17.75	
$\Delta 2$			7.20	18.20	
2+50			6.33	19.07	
$\Delta 3$			5.10	20.30	
3+40			5.57	19.83	
$\Delta 0$			5.37	20.03	
0+50			4.41	20.99	
$\Delta 1$			3.64	21.70	
1+50			2.37	23.06	
$\Delta 2$			1.27	24.13	
2+50			0.58	24.82	
T.P	7.44	32.26			
$\Delta 3$			6.53	25.73	

I & 75T

II & 75T

H. L. & July 12/87
 S. N. S. July 1/87

Δ	+	H.I.	-	Elev.	FB
IM		3226	6.85	(2541)	2541
TP	1093	36.34			
B+50			9.23	27.11	
$\Delta 0$			8.88	27.46	
0+50			7.83	28.51	
$\Delta 1$			7.00	29.34	
1+50			5.70	30.64	
$\Delta 2$			4.56	31.78	
2+50			3.25	33.09	
$\Delta 3$			2.10	34.24	
3+40			1.43	34.91	
$\Delta 0$			0.80	35.54	
TP	893	44.47			
0+50			7.83	36.64	
$\Delta 1$			6.78	37.69	
1+50			5.58	38.89	
$\Delta 2$			4.49	39.98	
2+50			3.36	41.11	
$\Delta 3$			3.11	41.36	
3+40			2.66		
$\Delta 0$			2.65	41.82	

III & 7 ST

III & 7 ST

III & 7 ST was Grading No. 10

H.L.L. }
 2.6M.3 } July 12/87

4

Δ	+	H.I.	-	Elv.	HB
				41.82	
TP	5.95	47.77			
0+50			5.11	42.66	
$\Delta 1$			5.43	42.34	
1+50			5.18	42.59	
$\Delta 2$			4.87	42.90	
2+50			4.19	43.58	
$\Delta 3$			2.78	44.99	
3+40			2.53	45.24	
$\Delta 0$			2.06	45.71	
HM			2.23	45.54	45.50
TP	8.30	53.80			
0+50			7.31	46.49	
$\Delta 1$			6.32	47.48	
1+50			5.26	48.54	
$\Delta 2$			4.11	49.69	
2+50			3.40	50.40	
$\Delta 3$			1.22	52.68	
3+40			0.13	53.67	
TP	7.55	61.22			
$\Delta 0$			7.60	53.62	
0+50			6.51	54.71	

E & 7 ST

D & 7 ST

H. B. L. }
 D. B. M. } July 12/57

5

Δ	+	HI	-	Elev. H.H.
$\Delta 1$		61.22	5.50	55.72
1-50			4.88	56.34
$\Delta 2$			3.75	57.47
2+50			2.61	58.61
$\Delta 3$			2.27	58.95
T.P.	433	63.28		
3+40			4.75	58.53
$\Delta 0$			4.74	58.54
0+50			4.81	58.47
$\Delta 1$			4.62	58.66
1+50			5.31	57.97
$\Delta 2$			5.34	57.94
2+50			5.25	58.03
$\Delta 3$			4.43	58.85
3+40			4.49	58.79
$\Delta 0$			3.65	59.63
<u>0+25</u>			8.49	54.79
0+50			3.05	60.23
T.P.	12.27	72.50		
$\Delta 1$			1.30	71.20
T.P.	11.52	82.72		

$\Delta 4 \ 7 \ 57$

$\Delta 5 \ 7 \ 57$

1662 } July 12/57
D.L.H.

6

Δ	+	HI	-	File/HH
$\Delta 150$		8272	005	82.67
T.P.	11.55	94.22		
$\Delta 2$			6.81	87.41
2+50			2.82	91.40
T.P.	11.07	102.47		
$\Delta 3$			4.57	94.90
3+40			5.38	97.19
$\Delta 0$			4.23	98.24
0+50			1.39	101.08
T.P.	11.87	112.95		
$\Delta 1$			7.15	105.80
T.P.			0.11	112.84
T.P.	11.82	124.66		
1+50			11.36	113.30
$\Delta 2$			5.63	119.03
T.P.			0.30	124.36
T.P.	11.13	135.49		
2+50			9.45	126.04
$\Delta 3$			2.53	132.96
T.P.			0.20	135.29
T.P.	12.02	147.31		

A 4 of 57.

H.C.L. & family 12/87

7

Δ	+	HI	-	Elev	HH
3+40		147.30	11.08	136.23	
Δ 0			7.94	139.37	
0+50			4.84	142.47	
Δ 1			2.23	145.08	
T.P.			0.47	146.84	
T.P.	11.63	158.47			
1+50			11.29	147.18	
Δ 2			9.63	148.84	
2+50			8.08	150.39	
3			6.43	152.04	
3+40			4.47	154.00	
Δ 0			2.71	155.76	
0+50			0.85	157.62	
T.P.	12.10	169.72			
1			10.27	159.45	
1+50			9.63	160.19	
Δ 2			8.47	161.25	
2+50			6.69	163.03	
3			6.39	163.33	
3+40			7.27	162.45	
Δ 0			8.43	161.29	

ASH & 7 ST.

BEECH & 7 ST.

CEDAR & 7 ST.

Hbd. } July 12/87
 S.C.M.

8

Δ	+	H.I.	—	Elev.	HH
0+50		169.72	10.22	159.50	
IP	140	160.90			
$\Delta 1$			4.40	156.50	
1+50			3.82	157.08	
$\Delta 2$			3.45	157.45	
2+50			3.07	157.83	
$\Delta 3$			3.61	157.29	
3+40			6.08	154.82	
IP	2.26	157.08			
—			11.81	145.27	
IP	0.04	145.31			
B.M.			11.12	134.19	134.19

~~DATE & of ST. T. & N. D.~~

S.W. 5th & 11th

21st St North of J. St

Sta	+	H. D.	-	Elev.
B. W.	4.56	102.18		97.62
0			7.58	94.60
+11			7.00	95.18
+22			6.38	95.80
+33			6.09	96.09
+44			5.71	96.47
+55			5.52	96.66
+66			5.63	96.55
+77			5.32	96.86
+88			5.10	97.08
+99			4.82	97.36
+10			4.59	97.59
+21			4.50	97.68
+24			4.50	97.68
+39			4.47	97.71
+64			4.08	98.10
+89			3.81	98.37
2+14			3.40	98.78
+39			2.90	99.28
+64			2.53	99.65
+89			2.30	99.88

Sp. E. S. 21st

21st N. North of 2nd St $\frac{1}{10}$

Sta	+	H.2.	-	Elev.
3+14		102.18	1.99	100.18
+39			1.71	100.47
+64			1.39	100.79
+94			0.72	101.46
B.M.	11.99	111.96	2.21	99.97
4+19			10.01	101.95
+44			9.12	102.84
+69			9.08	102.88
+94			8.42	103.54
5+19			8.25	103.71
+44			7.75	104.21
+69			6.99	104.97
+94			6.51	105.45
6+19			5.76	106.20
+44			5.13	106.83
+69			4.39	107.57
+94			3.92	108.04
7+19			3.31	108.65
+44			2.49	109.47
+69			1.76	110.20
8+06			0.43	111.53

S. Line H St.

Sp. N. 21st St

H St.

W. Line H St.

S. Line S. St.

21st St North of Dist $\frac{2}{3}$

Sta	+	H.I.	-	Elev.
B.M.	11.39	111.96	0.97	110.99
8+26		122.40	9.72	112.68
+26			9.41	112.99
+66			8.95	113.45
+86			9.24	113.16
9+11			8.91	113.49
+36			8.36	114.04
+61			7.73	114.67
+86			7.20	115.20
10+11			6.63	115.77
+36			6.07	116.33
+61			5.63	116.77
+86			5.24	117.16
11+11			4.91	117.49
+36			4.22	118.18
+61			3.55	118.85
+85			2.61	119.79
B.M.			1.52	120.88

S.W.

S. St

N. Line S St.

S Line F St.

21st South of I. H. $\frac{5}{10}$

Sta	+ H.I.	-	Elev.
B. M.	5.58	103.20	97.62
0		7.15	96.05
+13		6.65	96.55
+23		6.66	96.54
+33		6.52	96.68
+43		6.42	96.78
+53		6.30	96.90
+63		6.11	97.09
+73		5.90	97.30
+78		5.84	97.36
+85		5.78	97.42
1+10		5.59	97.61
+35		5.37	97.83
+60		5.20	98.00
+85		5.06	98.14
2+10		4.68	98.52
+35		4.48	98.72
+60		4.16	99.04
+85		4.06	99.14
3+10		3.84	99.36
+35		3.55	99.65

21st St South of Ist.

Sta	+	H.Q.	-	Elev.
3+60		103.20	3.50	99.70
B.W.			0.13	103.07

Sp. N. E. J. 21st

19th St. N of H St.

Sta	+ H.O.	-	Elev.
B.W.	11.02	77.71	66.69
0		11.74	65.97
+18		10.95	66.76
+28		10.44	67.27
+38		9.90	67.81
+48		9.45	68.26
+58		8.89	68.82
+68		8.33	69.38
+78		7.84	69.87
+88		7.69	70.02
+02		7.42	70.31
+27		7.21	70.50
+52		6.28	71.43
+77		5.25	72.46
2+02		4.53	73.18
+27		3.50	74.21
+52		2.04	75.67
+77		1.49	76.22
3+02		1.17	76.54
+27		0.89	76.82
T.P.	6.06	83.18	77.12

19th 71 of H. St.

Sta	+	A.D.	-	Elw.
3+52		83.18	5.80	77.38
+86			6.40	76.78
4+06			5.69	77.49
+26			5.36	77.88
+46			4.60	78.58
+66			4.19	78.99
B.W.	8.35	83.50	8.03	75.15
+91			3.82	79.68
5+16			4.25	79.25
+41			4.42	79.08
+66			4.50	79.00
+91			4.53	78.97
6+16			4.99	78.51
+41			5.33	78.17
+66			6.68	76.82
+91			7.06	76.44
7+16			5.19	78.31
+41			3.19	80.31
+66			2.36	81.14
+86			3.37	80.13
8+06			3.61	79.89

S. Lim Est.

S. St.

W. Lim Est.

S. W. 19+3

S. Lim F. St.

F. St.

19th St North of H St.

Sta	+ A.D.	-	Elev.
8+26	83.50	3.80	79.70
+46		4.64	78.86
B.M. 7.28	84.95	5.83	77.67
+71		6.01	78.94
+96		5.87	79.08
9+21		5.26	79.69
+46		4.31	80.64
+71		3.40	81.55
+96		3.18	81.77
10+21		2.76	82.19
+46		2.92	82.03
+71		3.00	81.95
+96		2.86	82.09
11+21		4.94	80.01
+46		4.37	80.58
+66		3.79	81.16
+86		4.17	80.78
12+06		4.94	80.01
+26		4.97	79.98
B.M. 7.67	91.07	1.55	83.40
+57		10.19	80.88

W. Line F St.

S. Line E. St.

E. St

N. L. E. St

19th St North of H St.

Sta	+	H.I.	-	Elev
12+76		91.07	10.37	80.70
13+01			9.50	81.57
+26			8.86	82.21
+51			7.83	83.24
+76			6.82	84.25
14+01			5.51	85.56
+26			4.21	86.86
+51			3.23	87.84
+76			2.01	89.06
15+01			1.37	89.70
+26			0.71	90.36
T. P.	6.77	93.84	4.00	87.07
B. M.			0.59	93.25

— S. Lin D. St.

— Sp. S. E.

N to West of 15th 音

Sta + H.O. - Elev.

B.M.	10.39	40.63		30.24
0			10.61	30.02
+10			10.49	30.14
+20			10.51	30.12
+30			10.32	30.31
+40			10.20	30.43
+50			10.08	30.55
+56			9.90	30.73
+67			9.65	30.98
+92			9.02	31.61
1+17			7.94	32.69
+42			6.86	33.77
+67			6.14	34.49
+92			5.23	35.43
2+61			4.87	35.76
2+17			4.31	36.32
+42			3.32	37.31
+67			2.33	38.30
+92			1.32	39.31
3+17			0.12	40.51
T.P.	10.79	51.29	0.13	40.50
+42			9.84	41.45

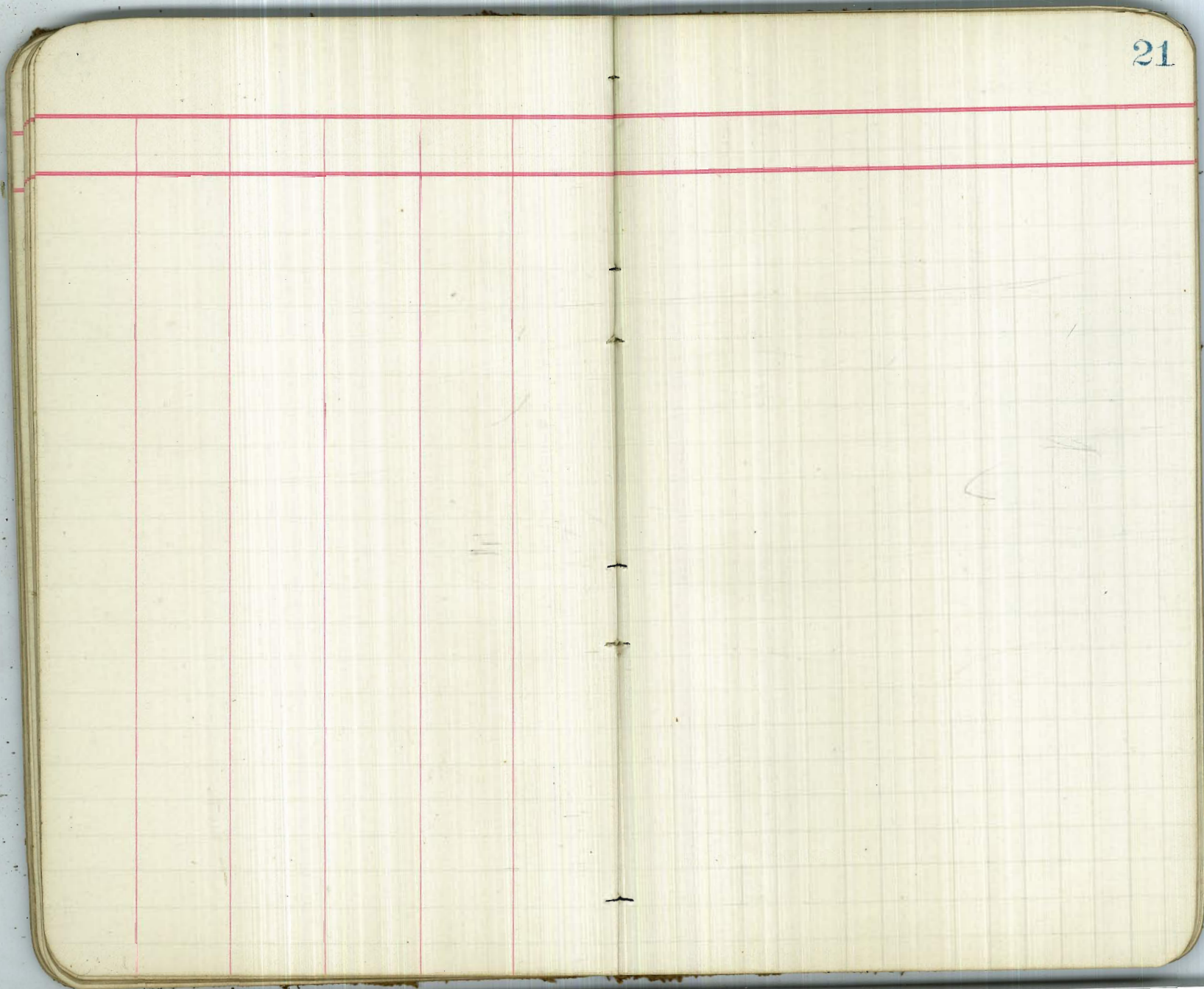
H. 15 Sp. N.W.

H St. West of 15th St B.

Sta	+	H.O.	-	Elev.
3+6.7		51.29	8.81	42.48
+9.2			7.80	43.49
4+1.7			6.84	44.45
+4.3			5.92	45.37
T. P.	6.32	53.84	3.77	47.52
B. W.			0.74	53.16

E. Line 14th St.14th St. Corp W. W.

The image shows an open notebook with two pages. The left page is ruled with a grid and features two horizontal red lines near the top, creating a header section. Below these lines, the page is divided into six vertical columns and fifteen horizontal rows. The right page is also ruled with a grid, consisting of fifteen columns and fifteen rows. The number '20' is printed in the top right corner of the right page. The notebook is bound in the center, and the pages are a light cream color.



A.
G.

I. St. East of 22nd St

Sta	+ H.I.	-	Colin.
-----	--------	---	--------

B.W.	J. 20	113.46	108.26
0		8.33	105.13
+10		8.06	105.40
+20		7.80	105.66
+30		7.62	105.84
+40		7.41	106.05
+50		7.21	106.25
+56		7.21	106.25
+67		6.89	106.57
+92		6.43	107.03
1+17		6.11	107.35
+42		5.54	107.92
+67		5.54	107.92
+92		5.27	108.19
2+17		4.73	108.73
+42		4.61	108.85
+67		4.28	109.18
+92		4.10	109.36
3+17		3.69	109.77
+42		3.26	110.20
+67		2.83	110.63

Sp. post. W. E. 22nd & I. St.

I. St. East of 22nd St.

5/10

23

3790	113.46	2.64	110.82
4717		2.33	111.13
746		2.29	111.17
B. W.		1.89	111.57

Sp. W. W. 24th St.

I St West of 15th St $\frac{4}{8}$

Sta	+ H.I.	-	Elev
B. SW. 4.67	29.69		25.02
0		4.44	25.25
+04		4.31	25.37
+14		4.50	25.19
+24		4.23	25.46
+34		4.02	25.67
+44		4.07	25.62
+54		3.93	25.76
+59		3.86	25.83
+71		3.87	25.82
+96		3.83	25.86
1+21		3.78	25.91
+46		3.74	25.95
+71		3.63	26.06
+96		3.52	26.17
2+21		3.17	26.52
+46		2.84	26.85
+71		2.11	27.58
+85		1.25	28.44
3+05 T.P. 9.02	37.87	0.84	28.25
+21		8.40	29.47

6/2 S.W.

I. St West of 15th St $\frac{1}{2}$

Sta	+	N.S.	-	Elev
3+46		37.87	7.52	30.35
+71			6.64	31.23
+96			5.60	32.27
4+21			4.58	33.29
+43			3.73	34.14
P.W.			1.05	36.82

6 p. 76. 6. 14. 2.

13th St W of W St $\frac{1}{2}$ W

Sta + H.I. - Elev

B. W. 5.04	5.76	0.72
0	3.07	2.69
+10	4.01	1.75
+20	3.78	1.98
+30	3.88	1.88
+40	5.19	0.57
+50	5.41	0.35
+56	5.29	0.47
+68	5.17	0.59
+93	5.36	-0.40
1+18	6.18	-0.42
+43	5.28	0.48
+68	5.70	0.66
+93	5.33	0.43
2+18	5.24	0.52
+43	4.87	0.89
+68	3.82	1.94
+93	3.32	2.44
3+18	4.87	0.89
+43	5.01	0.75
+63	4.96	0.80

Pinn. S. E. W. 113'

S. S. W. St.

13th St North of W. St. $\frac{5}{2}$

Sta	+	H.I.	-	Elev.
3+83		5.76	5.07	0.69
4+03			5.09	0.67
+75			5.32	0.44
B.W. 7.39		5.91	4.45	1.37
+48			8.30	0.41
+73			7.82	0.89
+98			7.72	0.99
5+213			7.213	1.48
+46			6.56	2.15
+73			6.33	2.38
+98			6.17	2.54
6+23			5.85	2.86
+48			5.67	3.04
+73			5.39	3.32
+98			5.16	3.55
7+23			4.80	3.91
B.W.			3.61	5.10

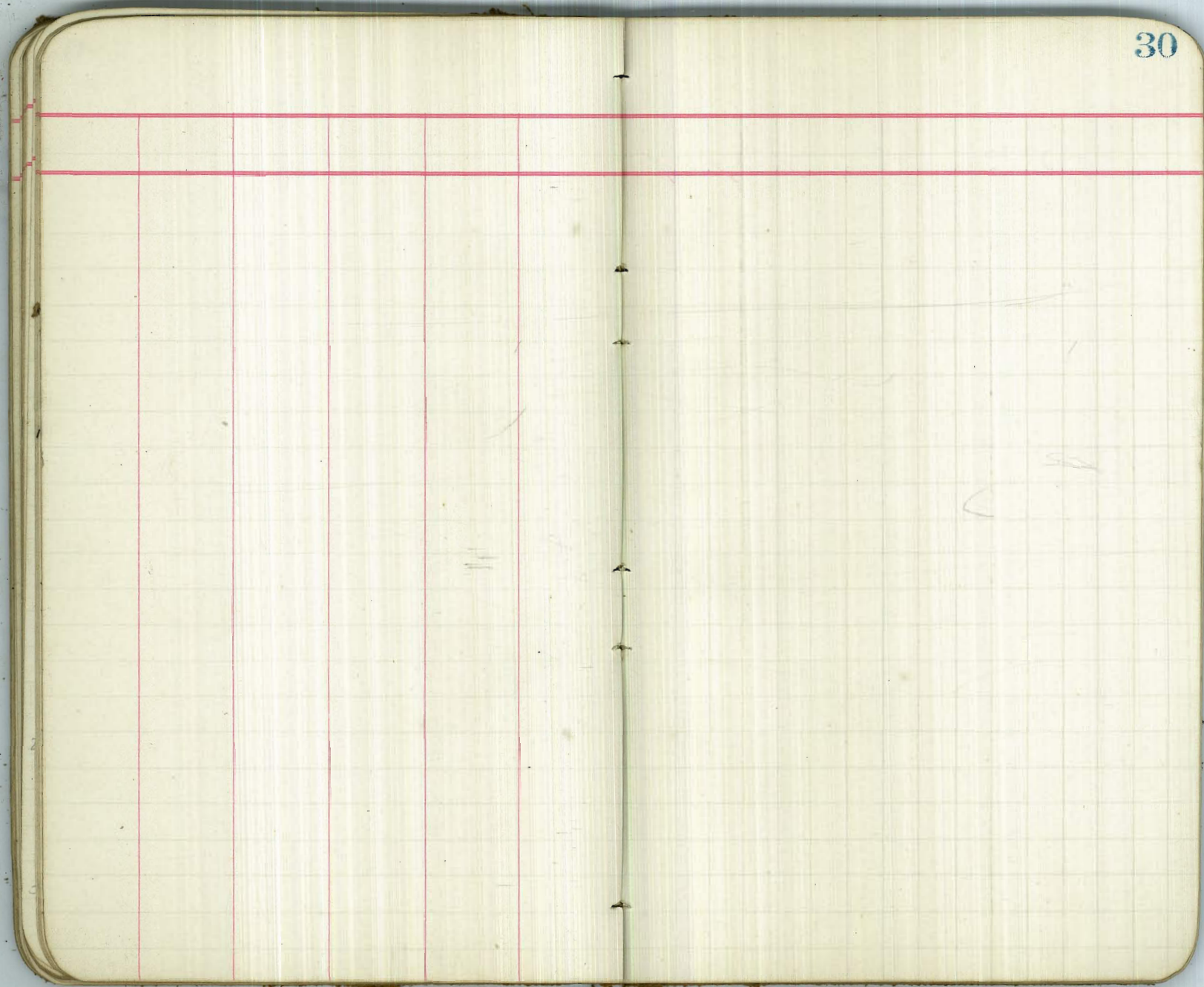
W. St.

W. L. W. St.

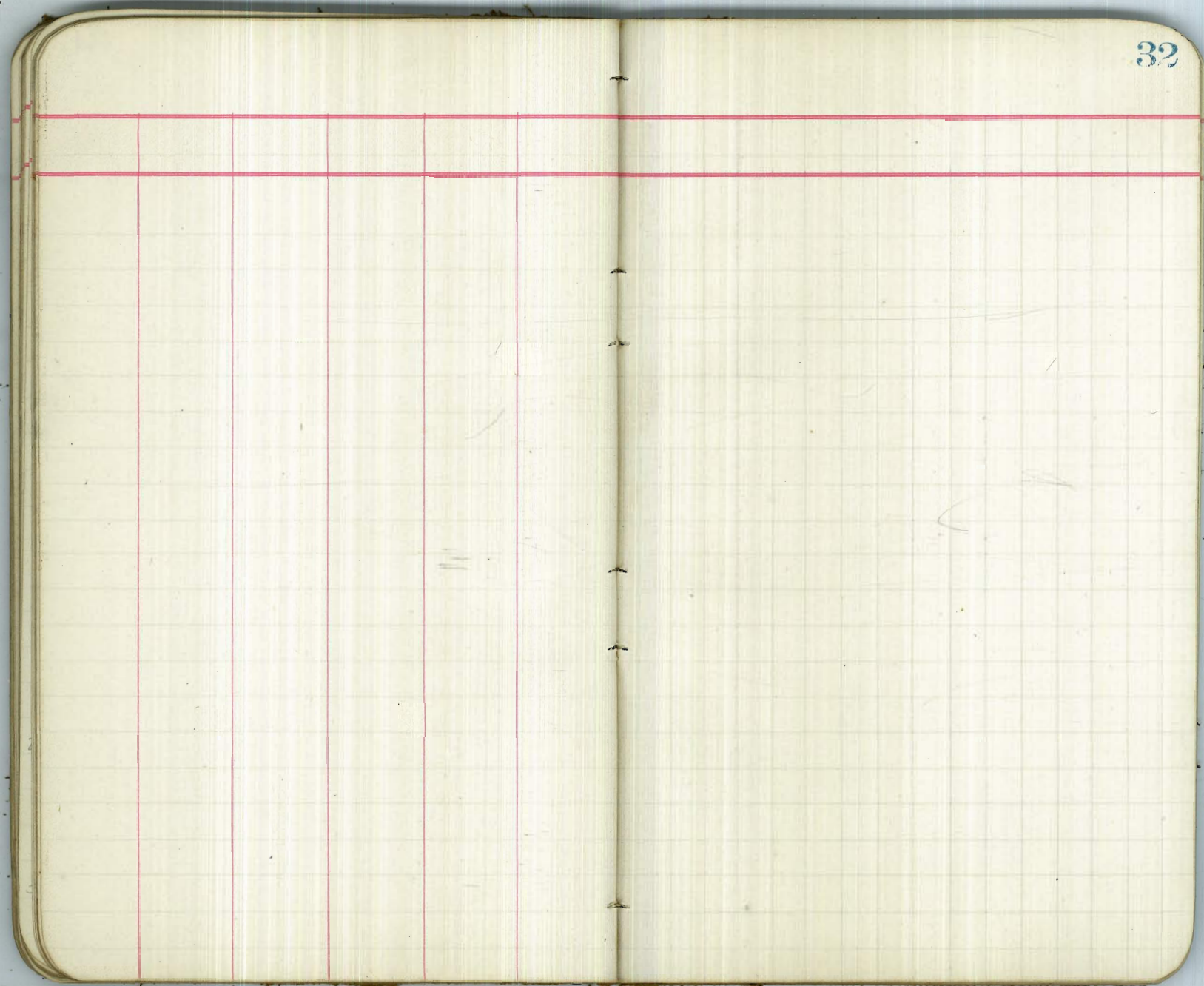
W. E. Sp. 13+W.

S. Lim S. St.

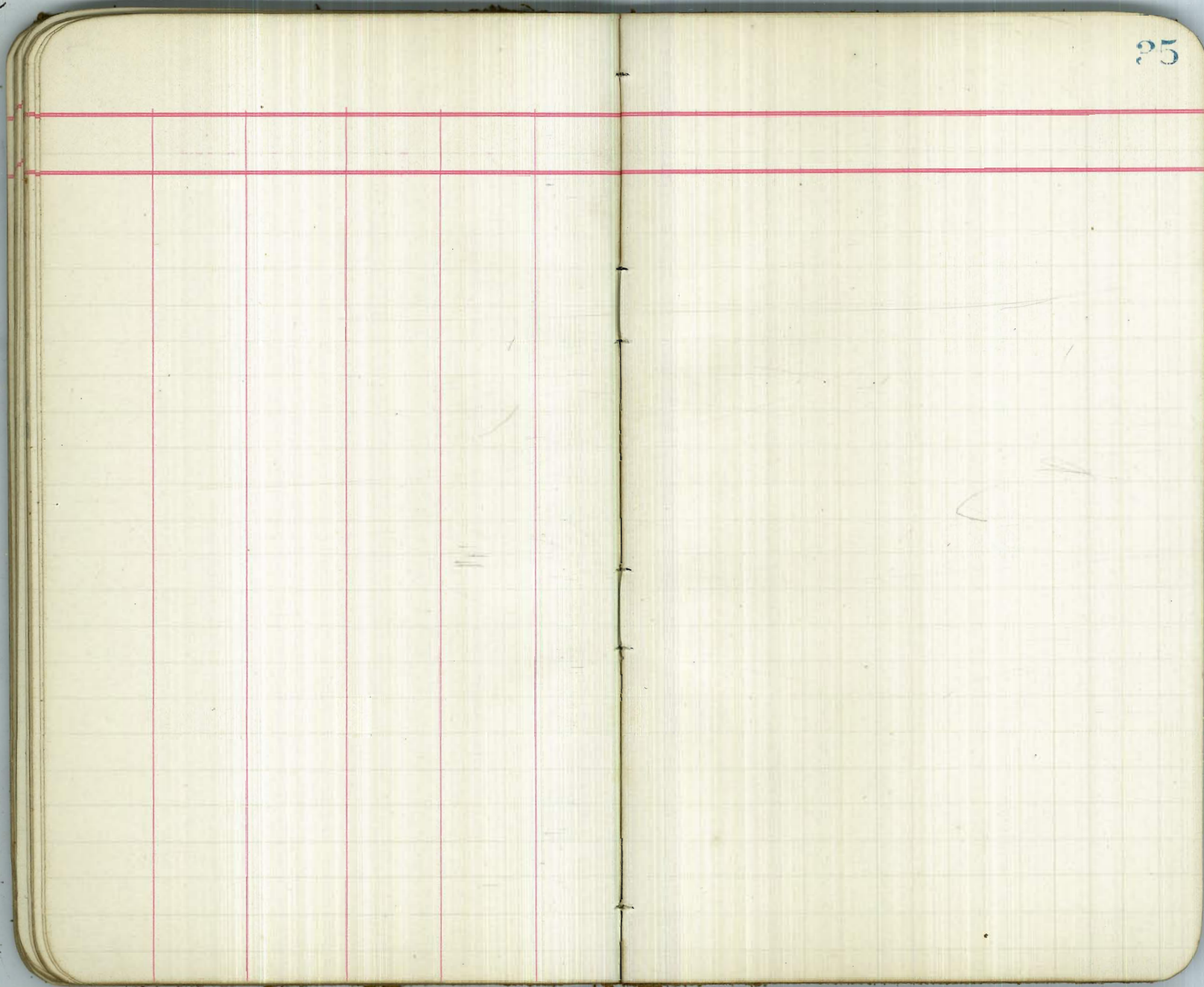
Sp. S.E. 13+S.



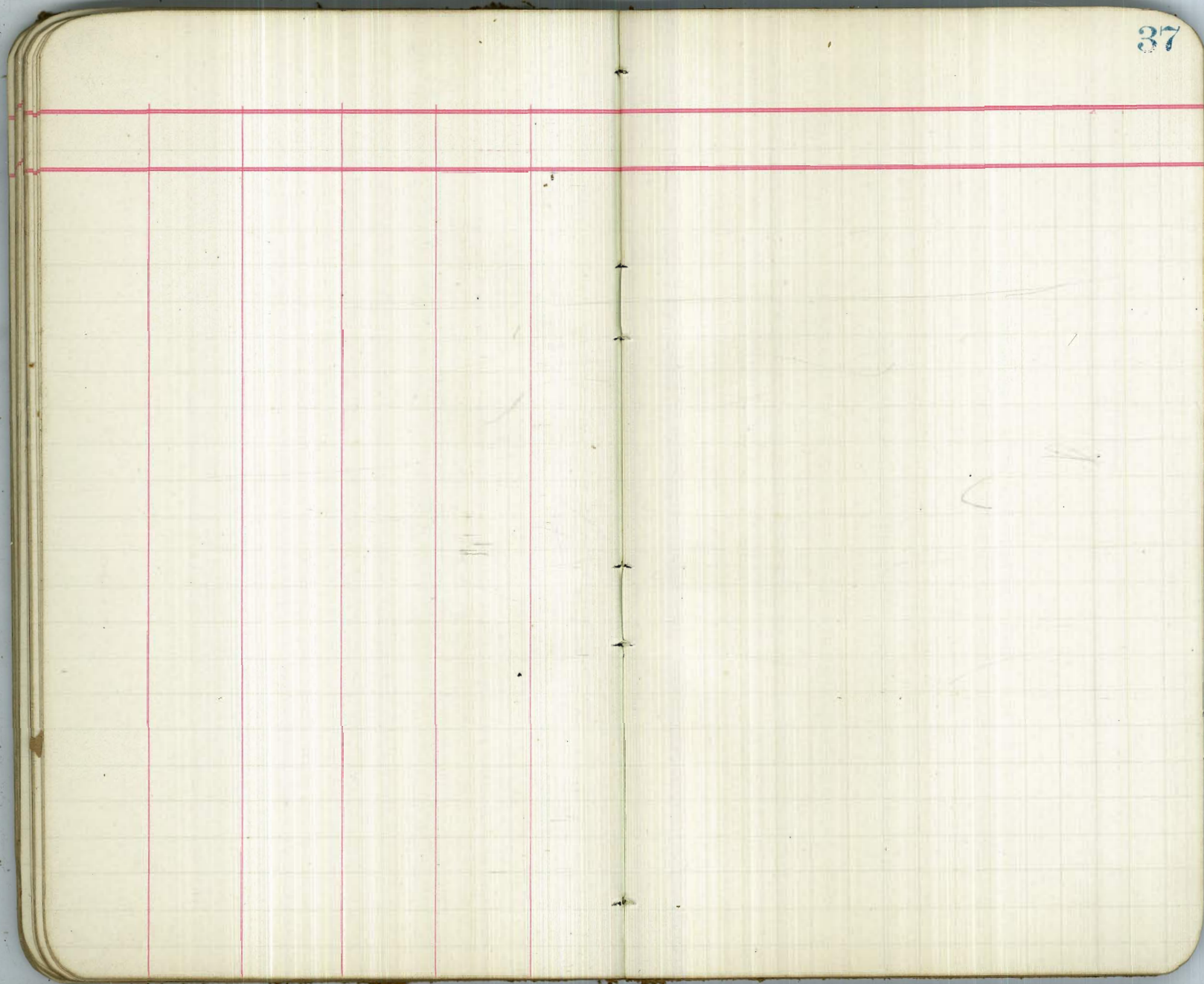
The image shows an open notebook with a grid pattern. The left page is ruled with horizontal lines and has six vertical red lines that create seven columns of varying widths. The right page is ruled with horizontal lines and has no vertical lines. The number '31' is printed in the top right corner of the right page. The notebook is bound in the center, and the pages are a light cream color.

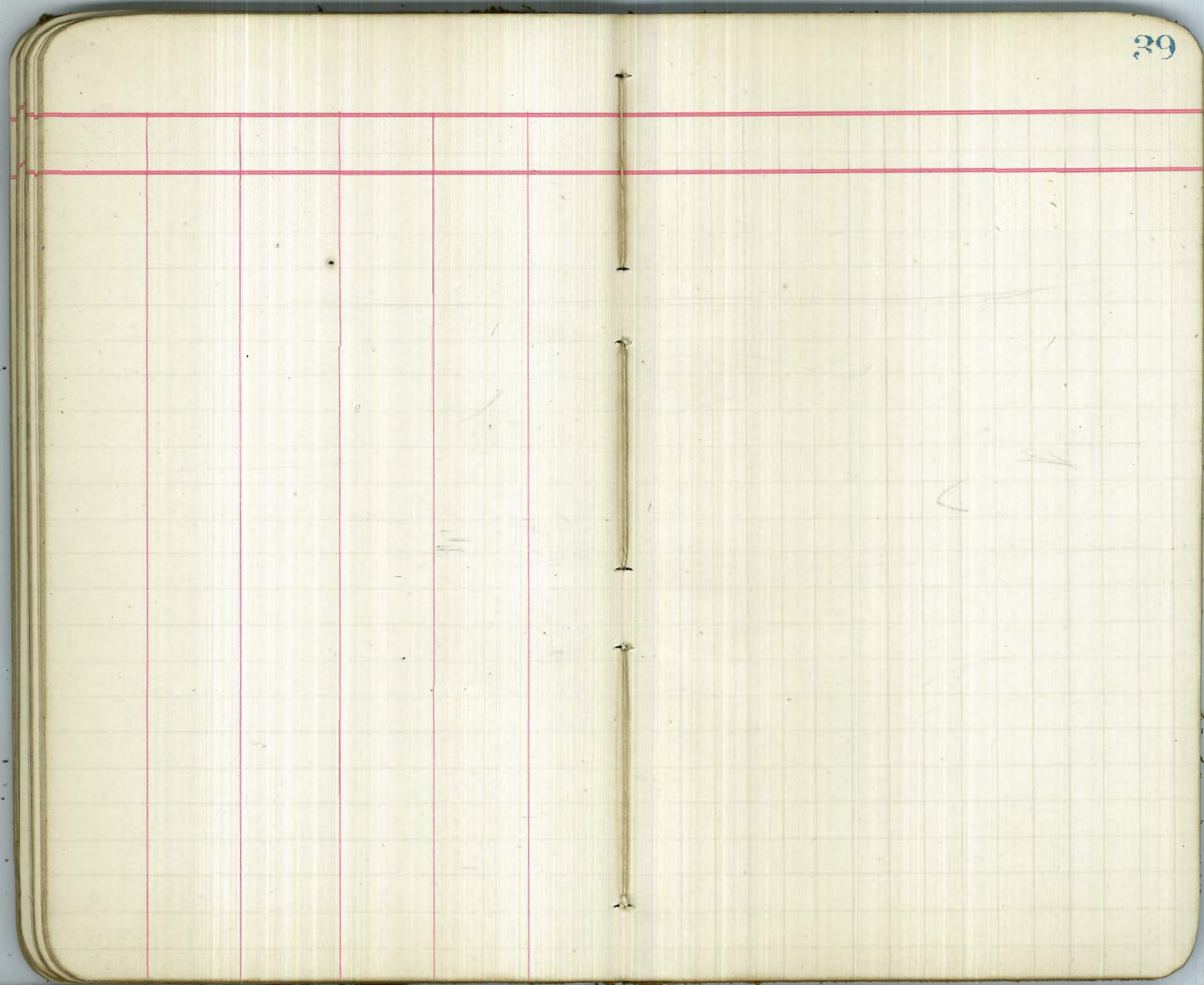


The image shows an open notebook with two pages. The pages are cream-colored with light blue horizontal ruling. The left page has a red margin line near the top and four vertical red lines, creating five columns. The right page has a red margin line near the top. The notebook is bound in the center, and the pages are slightly aged. The number '34' is printed in the top right corner of the right page.

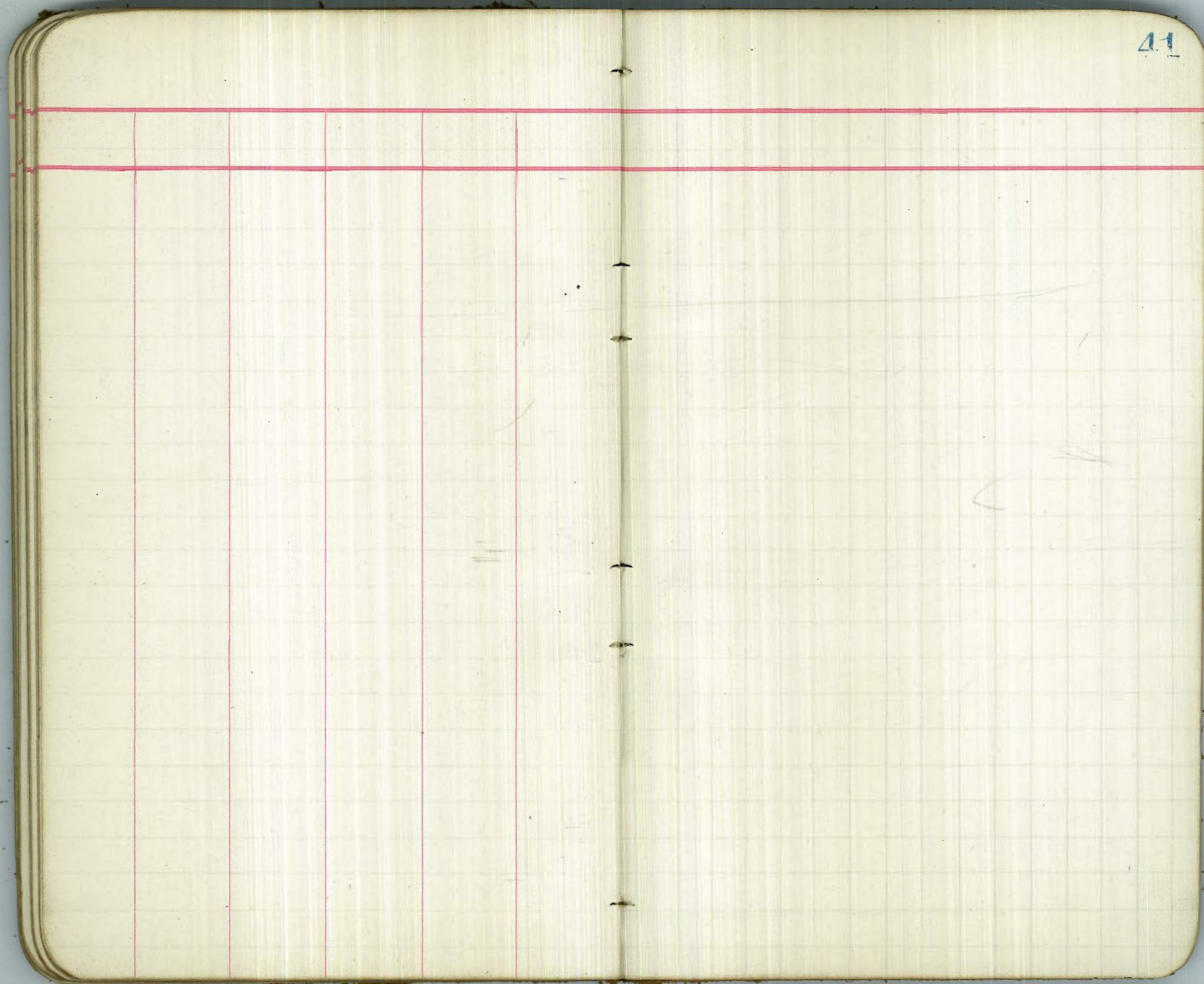


The image shows an open notebook with two pages. The left page is a ledger page with a grid of red lines. It has two horizontal lines near the top, creating a header section. Below these are several vertical lines that divide the page into columns. The right page is a standard grid page with a uniform grid of light blue lines. The notebook is bound in the center, and the pages are off-white with some minor staining and wear.

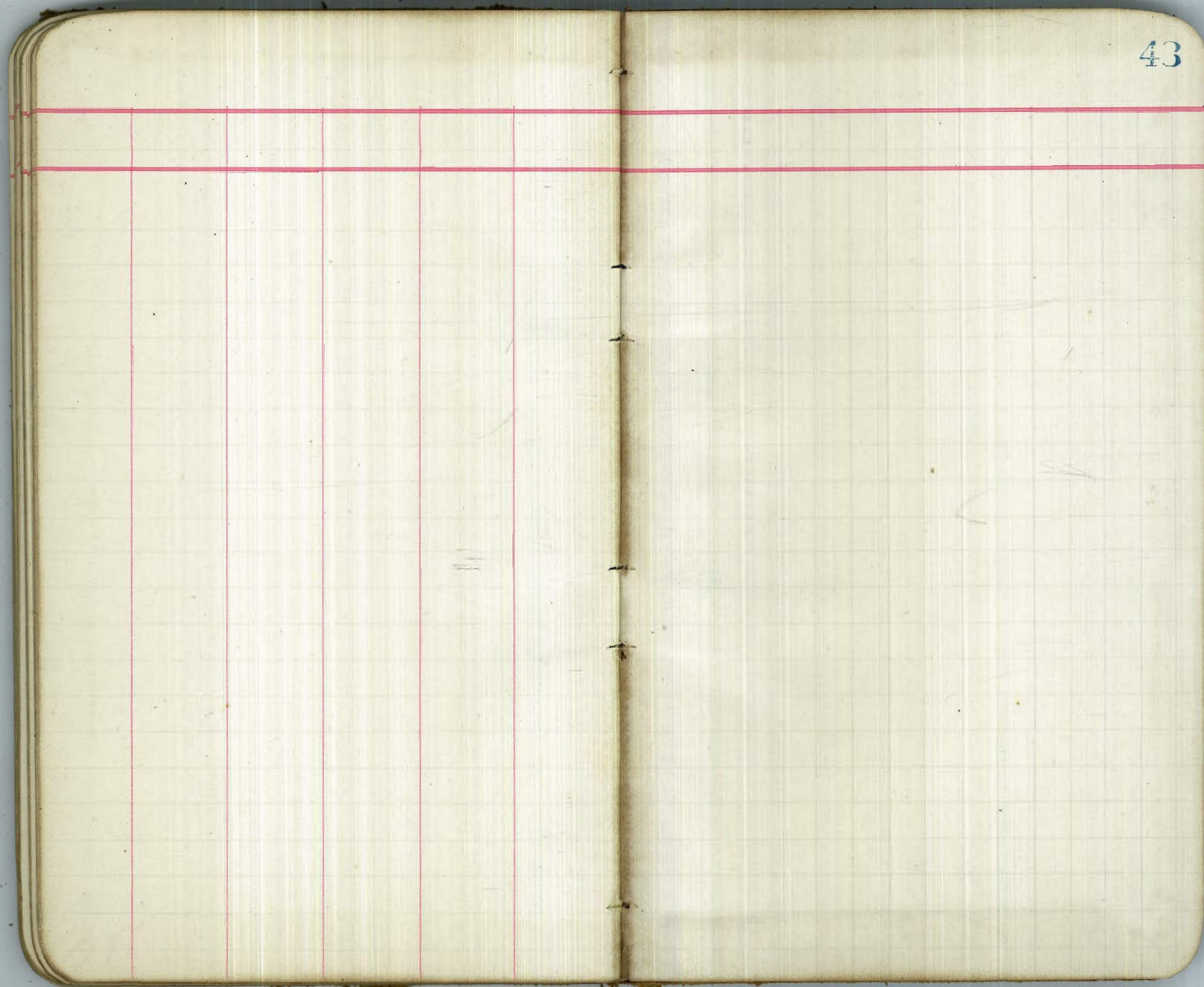




This image shows a ledger page with a grid of red lines. The page is numbered 40 in the top right corner. The grid consists of 6 columns on the left side and 12 columns on the right side, separated by a vertical red line down the center. The page is otherwise blank.



The image shows an open notebook with two pages. The left page is a ledger page with a grid of red lines. It has a top header section, a second horizontal line below it, and then a grid of 6 columns and 18 rows. The right page is a grid page with a grid of light blue lines, approximately 18 columns wide and 18 rows high. The notebook is bound in the center with visible stitching. The pages are cream-colored and show some signs of age and use.



179.82 Elev. 1844
 2.87 B.S.
 10.406 Elev.
 10.984 Elev.
 10.402 Elev.
 004
 140.35 HI
 11.11
 134.11
 32.8
 49
 14.08
 1697.2
 134
 168.39
 1.66
 156.44
 2.33
 156.15
 154.00
 2
 156.83
 59.14
 582
 59.14
 582
 600.0
 912
 50.88
 1.88 B.S.
 490.0
 715
 41.85
 24.82
 0.58
 25.40
 0.58
 25.40
 24.82
 1
 25.40
 24.82

TRAVERSE TABLE FOR TRANSIT BOOK,
 From 1° to 90° for a distance of 100.

Degrees.	DEGREES.		¼ DEGREE.		¼ DEGREE.		¼ DEGREE.		Degrees.
	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	
0			100.00	0.44	100.00	0.87	99.99	1.31	85
1	99.98	1.75	99.98	2.18	99.97	2.62	99.95	3.05	84
2	99.94	3.49	99.92	3.93	99.91	4.36	99.88	4.80	83
3	99.86	5.23	99.84	5.67	99.81	6.10	99.79	6.54	82
4	99.76	6.98	99.73	7.41	99.69	7.85	99.66	8.28	81
5	99.62	8.72	99.58	9.15	99.54	9.58	99.50	10.02	80
6	99.45	10.45	99.41	10.89	99.36	11.32	99.31	11.75	79
7	99.25	12.19	99.20	12.62	99.14	13.05	99.09	13.49	78
8	99.03	13.92	98.97	14.35	98.90	14.78	98.84	15.21	77
9	98.77	15.64	98.70	16.07	98.63	16.50	98.56	16.93	76
10	98.48	17.36	98.40	17.79	98.33	18.22	98.25	18.65	75
11	98.16	19.08	98.08	19.51	97.99	19.94	97.90	20.36	74
12	97.81	20.79	97.72	21.22	97.68	21.64	97.53	22.07	73
13	97.44	22.50	97.34	22.92	97.24	23.34	97.13	23.77	72
14	97.03	24.19	96.92	24.62	96.81	25.04	96.70	25.46	71
15	96.59	25.88	96.48	26.30	96.36	26.72	96.25	27.14	70
16	96.13	27.56	96.00	27.98	95.88	28.40	95.76	28.82	69
17	95.63	29.24	95.50	29.65	95.37	30.07	95.24	30.49	68
18	95.11	30.90	94.97	31.32	94.83	31.73	94.69	32.14	67
19	94.55	32.56	94.41	32.97	94.26	33.38	94.12	33.79	66
20	93.97	34.20	93.82	34.61	93.67	35.02	93.51	35.43	65
21	93.36	35.84	93.20	36.24	93.04	36.65	92.88	37.06	64
22	92.72	37.46	92.55	37.86	92.39	38.27	92.22	38.67	63
23	92.05	39.07	91.88	39.47	91.71	39.87	91.53	40.27	62
24	91.35	40.67	91.18	41.07	91.00	41.47	90.81	41.87	61
25	90.63	42.26	90.45	42.66	90.26	43.05	90.07	43.44	60
26	89.88	43.84	89.69	44.23	89.49	44.62	89.30	45.01	59
27	89.10	45.40	88.90	45.79	88.70	46.17	88.50	46.56	58
28	88.29	46.95	88.09	47.33	87.88	47.72	87.67	48.10	57
29	87.46	48.48	87.25	48.86	87.04	49.24	86.82	49.62	56
30	86.60	50.00	86.38	50.38	86.16	50.75	85.94	51.13	55
31	85.72	51.50	85.49	51.88	85.26	52.25	85.04	52.62	54
32	84.80	52.99	84.57	53.36	84.34	53.73	84.10	54.10	53
33	83.87	54.46	83.63	54.83	83.39	55.19	83.15	55.56	52
34	82.90	55.92	82.66	56.28	82.41	56.64	82.16	57.00	51
35	81.92	57.36	81.66	57.71	81.41	58.07	81.16	58.42	50
36	80.90	58.78	80.64	59.13	80.39	59.48	80.13	59.83	49
37	79.86	60.18	79.60	60.53	79.34	60.88	79.07	61.22	48
38	78.80	61.57	78.53	61.91	78.26	62.25	77.99	62.59	47
39	77.71	62.93	77.44	63.27	77.16	63.61	76.88	63.94	46
40	76.60	64.28	76.32	64.61	76.04	64.94	75.76	65.28	45
41	75.47	65.61	75.18	65.93	74.90	66.26	74.61	66.59	44
42	74.31	66.91	74.02	67.24	73.73	67.56	73.43	67.88	43
43	73.14	68.20	72.84	68.52	72.54	68.84	72.24	69.15	42
44	71.93	69.47	71.63	69.78	71.33	70.09	71.02	70.40	41
45	70.71	70.71							40
Degrees.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Degrees.
	DEGREES.		¼ DEGREE.		¼ DEGREE.		¼ DEGREE.		

Published by Edward Denny & Co., Stationers, Drawing Materials,
 Mathematical Instruments, Etc., San Francisco.