

SEWERAGE  
TIDAL OBSERVATIONS

9

TRANSIT.

F.B. 670

670

Table showing the difference of latitude and departure in running 80 chains at any course from 1 to 60 minutes.

Minutes.	Lks.	Minutes.	Lks.	Minutes.	Lks.
1	2½	21	49	41	95½
2	4¾	22	51½	42	98
3	7	23	53¾	43	100½
4	9½	24	56	44	102¾
5	11¾	25	58½	45	105
6	14	26	60¾	46	107½
7	16½	27	63	47	109¾
8	18¾	28	65½	48	112
9	21	29	67¾	49	114½
10	23½	30	70	50	116¾
11	25¾	31	72½	51	119
12	28	32	74¾	52	121½
13	30½	33	77	53	123¾
14	32¾	34	79½	54	126
15	35	35	81¾	55	128½
16	37½	36	84	56	130¾
17	39¾	37	86½	57	133
18	42	38	88¾	58	135½
19	44½	39	91	59	137¾
20	47	40	93½	60	140

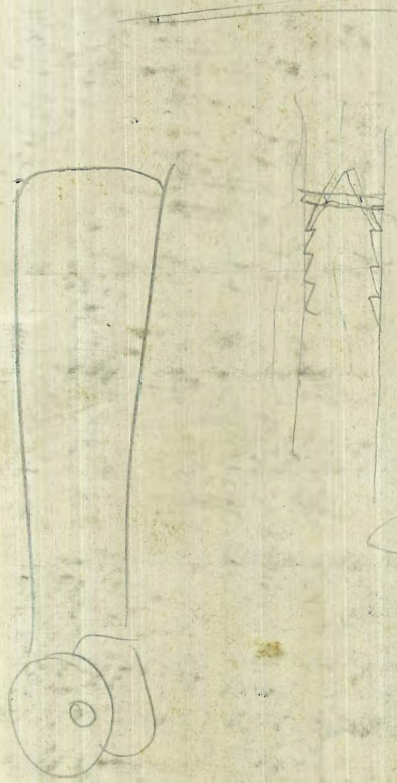
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 STATIONERS AND PRINTERS,  
 SAN FRANCISCO, CAL.

Table for Running on Slopes.

In the following table the first column shows the angle, the second, the number of links to be added to a chain on the slopes, to make one chain, horizontal measurement.

Angle.	Cor. in links	Angle.	Cor. in links.	Angle.	Cor. in links.	Angle.	Cor. in links.
0		0		0		0	
4	0.24	11	1.88	18	5.14	25	10.54
5	0.38	12	2.24	19	5.76	26	11.26
6	0.55	13	2.63	20	6.42	27	12.24
7	0.76	14	3.06	21	7.11	28	13.37
8	0.98	15	3.53	22	7.85	29	14.34
9	1.24	16	4.02	23	8.64	30	15.47
10	1.55	17	4.56	24	9.47	35	22.07



3  
694

Date	Time A.M. H.W.	Time Marked	Time A.M. I.W.	Time Marked	Time P.M. H.W.	Time Marked	Time P.M. I.W.
Apr 29	21	—	6-43	8.9	2-49	5.6	9-20
" 30	1-35	—	8-36	8.9	3-52	5.4	10-14
May 1	3-15	—	10-12	9.0	5-12	4.7	11-35
" 2	4-38	4.7	11-30	9.3	5-54	4.7	12-00
" 3	5-58	4.5	— 59	9.8	6-39	4.3	- 20
" 4	7-20	3.9	1-13	9.3	7-11	3.9	1-20
" 5	7-49	3.7	1-30	9.5	8-00	3.1	1-55
" 6	8-46	3.8	2-20	10.0	8-43	2.4	2-30
" 7	9-51	3.9	3-30	10.5	9-21	2.2	3-40
" 8	10-38	4.2	4-16	10.6	9-58	2.4	4-30
" 9	11-29	4.4	5-20	10.4	10-53	2.7	5-47
" 10	11-59	4.5	6-22	10.0	11-31	3.0	6-30

Date	Time AM Marked H.W.	Time AM Marked L.W.	Time PM Marked H.W.	Time PM Marked L.W.
May 11	3.0	7-30	11-55	4.7
"	3.9	8-15	2-30	5.0
"	4.5	9-17	4-15	4.9
"	4.5	11-12	5-21	4.7
England out 6-19	av. 4.71	av. 9.58	av. 6-33	av. 8.57
		Av. floods 6-2.6	Av. Ebbz 6-1.4	

Av. mean am. tide 6.88 Av. mean s.p.m. tide 6.27

Av. mean am. & p.m. tides 6.57

Date	Time AM Marked H.W.	Time AM Marked L.W.	Time PM Marked H.W.	Time PM Marked L.W.
May 15	5-16	11-11	5-10	—
"	6-03	—	5-57	—15
"	6-50	12-54	6-30	—35
"	7-40	1-30	6-55	1-01
"	8-30	2-01	7-31	1-25
"	9-13	2-33	8-06	1-51
"	9-53	3-12	8-45	2-31

Date	Time Marked A.M. H.H	Time Marked A.M. L.H	Time Marked P.M. H.H	Time Marked P.M. L.H
May 22	9-30	4.7	2-25	9.7
"	10-00	4.8	3-40	10-0
"	10-34	5.2	4-29	9.9
"	10-54	5.2	4-54	9.6
"	11-41	5.3	5-30	9.6
"	✓	5.11	6-10	9.6
"	1-00	5.11	6-40	9.4
"	1-43	4.0	7-30	9.0

Date	Time A.M. H.H	Time A.M. L.H	Time P.M. H.H	Time P.M. L.H
May 30	3-10	4.5	9-00	8.8
"	4-00	4.3	10-10	9.0
June 1	5-15	3.9	11-20	8.6
"	5-55	4.2	4-2	9.6
"	7-10	4.0	1-31	10.2
"	8-20	4.0	2-17	10.5
"	9-25	3.7	3-04	10.5

av mean averted 6.80 av mean from tide 5.5  
 av mean sun & from tide 6.17

Date	June arr. A W	June Marked L.H.	June Mark A.W.	June Spec. A.W.	June Marked L.H.	June Spec. L.H.	Marked
June 10-11	4.5	3-4"	11.5	11-11	2.2	4-04	8.1
" 7	11-5"	4-27	10.5	10-4"	2.3	4-40	8.0
" 8	11-3"	5-10	11.2	11-15	2.7	5-36	8.2
" 9	~	6-00	9.5	~	3.0	6-05	8.0
" 10	11-4"	6-40	9.4	148	3.3	6-40	8.0
" 11	2-11	7-21	9.2	2-50	3.5	7-20	7.7
av	arr ticks 7.38			av. spec ticks 5.42			
				av-mean arr & spec ticks			6.40

Date	June arr. A W	June Marked L.H.	June Marked A.W.	June Spec. A.W.	June Marked L.H.	June Spec. L.H.	Marked
June 12	2-21	8-20	9.11	3-31	4.11	7-21	7.9
" 13	3-31	9-11	8.7	4-11	4.3	8-11	8.1
" 14	4-41	10-22	8.5	4-41	4.11	9-43	8.5
" 15	5-51	11-33	8.2	5-33	4.2	11-57	8.5
" 16	7-18	5-2	8.1	6-25	3.9	12-09	8.8
" 17	7-21	5-11	8.5	7-11	3.7	12-36	8.2
" 18	8-11	5-3	9.11	7-26	3.5	1-11	8.2
				av-mean arr ticks 6.79		av-mean spec ticks 6.1	
				av-mean arr & spec ticks			6.45

Date	Time A.M. H.W.	Masked L.W.	Time A.M. L.W.	Masked L.W.	Time P.M. H.W.	Masked L.W.	Time P.M. L.W.	Masked L.W.
June 19	8:27	5.0	2-20	9.2	7-57	3.1	1-22	8.0
" 20	9:16	4.7	2-53	9.2	8-30	3.1	1-56	7.8
" 21	9:59	4.7	3-31	9.7	9-10	2.7	2-13	7.4
" 22	10:30	4.3	4-12	10.3	9-47	2.5	3-21	7.0
" 23	10:59	4.5	4-57	10.2	10-27	2.5	4-12	7.2
" 24	11:30	5.0	5-21	10.3	11-40	3.0	5-11	7.4
" 25		5.1	6-00	10.3	12-45	3.2	6-10	7.5

Av. ocean A.M. tide 7.3

" " P.M. " 5.2

" " A.M. & P.M. " 5.25

Date	Time A.M. H.W.	Masked L.W.	Time A.M. L.W.	Masked L.W.	Time P.M. H.W.	Masked L.W.	Time P.M. L.W.	Masked L.W.
June 26	12:00	4.7	6:30	10.1	1:21	4.5	6:05	7.7
" 27	1:20	4.8	7:15	10.0	2:05	4.7	6:50	7.9
" 28	2:50	5.2	8:06	9.9	3:10	4.9	7:39	7.6
" 29	3:40	5.2	9:20	9.5	4:07	4.9	8:40	7.0
" 30	4:26	5.1	10:00	9.5	4:56	4.8	9:37	6.9
July 1	5:33	5.3	11:10	9.1	5:39	4.4	10:39	6.8
" 2	6:41	5.0	12:30	8.8	6:27	3.7	11:51	6.7
" 3	7:45	4.8	1:22	9.3	7:12	3.2	1:00	6.7
" 4	8:34	4.4	2:10	9.9	7:55	2.5	1:50	7.3
" 5	9:26	4.0	3:20	10.3	8:50	2.5	3:05	7.5
" 6	10:00	4.0	4:00	10.2	9:55	2.7	4:20	7.5

Av. A.M. tide 7.23

mean A.M. & P.M. tide 6.57

Av. P.M. tide 5.9

The time is taken from  
Coast Survey tide table

51

Date	Time A.M. H.W.	Time marked L.W.	Time P.M. H.W.	Time marked L.W.	Time P.M. L.W.	Time marked H.W.
July 7	11:22					
" 8						
" 9						
" 10						
" 11						
" 12						
" 13						
" 14						
" 15						
July 16						
" 17						
" 18						
" 19						
" 20						
" 21						
" 22						
" 23						
" 24						
" 25						
" 26						





Date	Time AM HW	Time marked L.W	Time marked H.W	Time marked L.W	Time marked
Aug 12					
" 13					
" 14					
" 15					
" 16					
" 17					
" 18					
Aug 18					
" 19					
" 20					
" 21					
" 22					
" 23					
" 24					
" 25					
" 26					
" 28					
" 29					
" 30					
" 31					

High Water  
First  
Time Reading

Water  
Second  
Time Reading

Low Water  
First  
Time Reading

Water  
Second  
Time Reading

July 25

26

27

28

29

30

31

High Water  
First  
Time Reading

Water  
Second  
Time Reading

Low Water  
First  
Time Reading

Water  
Second  
Time Reading

Aug 1

2

3

4

5

6

7

# High Water

# Low Water

9

High Water					Low Water				
First		Second			First		Second		
Date	Stand. Time	Below Datum	Stand. Time	Feet Below Datum	Date	Time	Feet Below Datum	Time	Feet Below Datum
July 7	11:22 a	(4.2)	10:17 P	2.9	July 7	4:31 a	10.6	4:20 P	7.2
8	12:04 P	(4.2)	10:52	3.5	8	5:17 a		5:03	7.0
9	12:46	4.6	11:25	4.0	9	5:50	8.9	5:49	6.6
10	9:11	.....	1:17	(4.5)	10	6:21	8.0	6:45	(6.5)
11	0:07 a	4.8	1:56	4.6	11	6:52	8.3	7:58	6.7
12	1:04	4.6	2:44	4.6	12	7:33	7.9	8:59	6.7
13	2:26	5.0	3:31	4.5	13	8:30	7.8	10:27	7.0
14	4:11	4.6	4:17	4.0	14	9:28	7.0	11:38 P	7.8
15	5:42	(4.7)	5:04	3.6	15	10:26	6.8	---	---
16	6:44	(4.7)	5:48	3.4	16	0:25	8.3	11:22 A	7.7
17	7:30	(4.9)	6:35	3.0	17	1:07	9.0	12:11 P	7.5
18	8:09	5.2	7:16	2.5	18	1:43	9.5	12:57	10.1
19	8:47	---	7:57	---	19	2:20	---	1:41	---
20	9:23 A	2.5 A	8:42 P	2.1	20	2:57	---	2:26	7.5
21	10:01	2.5	9:23	2.4	21	3:33 A	9.1	3:11 P	7.7
22	10:38	4.5	10:05	2.6	22	4:10	10.1	4:00	8.2
23	11:15	4.9	10:52	3.0	23	4:48	9.8	4:51	8.10

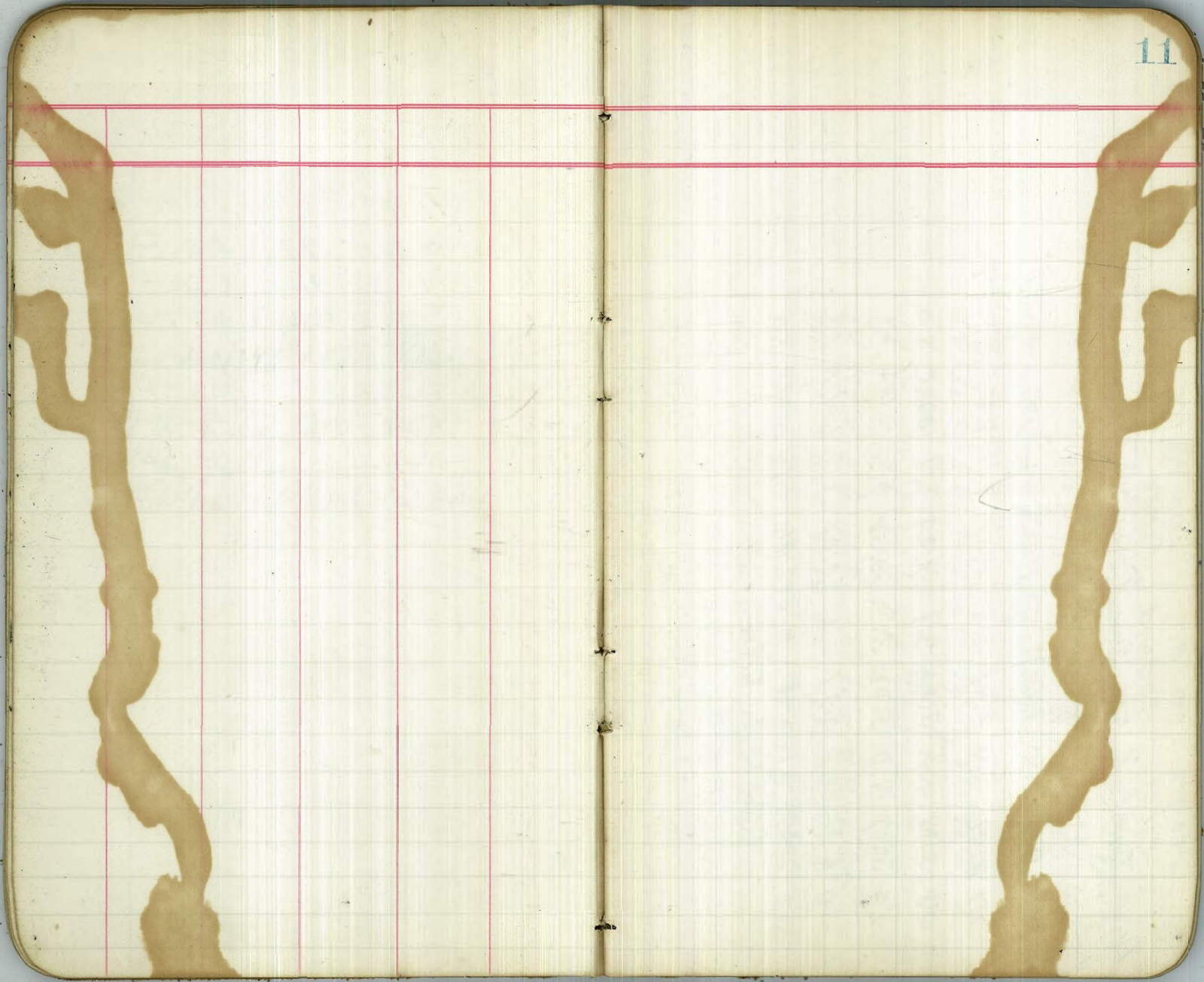
# High Water

First			Second		
Date	Time	Reading	Time	Reading	
July 24	11:58 A	4.3	11:41 P	3.9	
25	.....	.....	12:46	3.10	
26	0:43	4.6	1:42		
27	2:01	July 7	to July 24		
28	3:38		3:55		
29	Aw - A.M. tides		4:02	6.67	
30	Aw - P.M. tides		5:57	5.41	
31	Aw - W.M. & P.M. tides		6:04		

# Low Water

10

First			Second		
Date	Time	Reading	Time	Reading	
July 24	5:27 A	9.7	5:48 P	7.8	
25	6:11	9.1	6:52	7.2	
26	7:02	8.2	7:57		
27	8:07		9:30		
28	9:23		10:58 P		
29	10:38		-		
30	0:07		11:47 A		
31	1:01		12:42 P		



Date	High Water		Low Water	
	First Reading Time	Second Reading Time	First Reading Time	Second Reading Time
July 25	-	12:46 P	6:11 A	6:52 P
26	0:43a	1:42	7:02	7:57
27	2:01	2:45	8:07	9:30
28	3:38	3:55	9:23	10:59 P
29	5:17	5:02	10:38	-
30	6:32	5:57	0:07	11:47 A
31	7:30	6:48	1:01	12:48 P
		Avg A. W. tides 6.6		
		Avg P. W. tides 5.25		
		Avg A. W. & P. W. tides 5.92		

Date	High Water		Low Water	
	First Reading Time	Second Reading Time	First Reading Time	Second Reading Time
Aug 1	8:17 A	7:31 P	2:51	1:47 A
2	9:00	8:12	2:29	10:0
3	9:37	8:52	3:06	10:0
4	10:12	9:29	3:41	9:8
5	10:43	10:01	4:13	9:6
6	11:11	10:34	4:42	9:3
7	11:36	11:06	5:06	8:9
		Avg A. W. tides 6.71		
		Avg P. W. tides 5.34		
		Avg A. W. & P. W. tides 6.03		

Date	High Water		Low Water	
	First Time Reading	Second Time Reading	First Time Reading	Second Time Reading
Aug 8	11:59A	4.4	5:28A	8.2
9	...	12:27	5:57	8.0
10	0:19	5.5	6:22	7.2
11	1:13	4.5	6:50	6.8
12	3:18	3:01	7:42	6.8
13	5:30	4:17	9:22	6.7
14	6:32	4.7	<del>9:40</del>	<del>10:56</del>
			10:56	6.5

Date	High Water		Low Water	
	First Time Reading	Second Time Reading	First Time Reading	Second Time Reading
Aug 15	7:13A	3.7	0:40A	9.1
16	7:49	4.8	1:21	9.5
17	8:23	4.0	1:58	9.5
18	8:58	3.0	2:36	10.0
19	9:33	4.0	3:11	10.2
20	10:07	3.7	3:47	10.0
21	10:42	3.5	4:21	9.6
				4:40
				8.3



Date	High Water		Low Water	
	First Time Reading	Second Time Reading	First Time Reading	Second Time Reading
Aug 22	11:20A 3.3	11:36P 3.7	5:00A 9.0	5:29P 8.2
23	" " "	12:03 3.2	5:45 8.5	6:21 8.0
24	0:25 4.5	12:51 3.2	6:33 7.8	7:30 8.0
25	1:43 5.0	1:58 3.5	7:35 7.7	9:03 8.2
26	3:38 3.5	3:16 3.7	8:57 6.8	10:36P 8.7
27	5:24 4.4	4:36 3.5	10:32 6.7	" " " "
28	6:33 4.8	5:42 3.1	0:00 9.2	11:48A 6.5

Date	High Water		Low Water	
	First Time Reading	Second Time Reading	First Time Reading	Second Time Reading
Aug 29	7:22A 4.7	6:35P 3.2	0:43A 9.5	12:42P 7.2
30	8:01 4.6	7:21 3.2	9:7 9.7	1:27 7.8
31	8:35 4.2	8:03 3.0	9:9 9.9	2:05 7.7
Sept 1	9:06 4.3	8:41 3.0	9:6 9.6	2:39 8.0
2	9:34 4.3	9:15 3.2	9:5 9.5	3:11 8.0
3	9:58 4.1	9:46 3.3	3:37 8.6	3:43 7.8
4	10:17 4.2	10:18 3.9	4:00 8.8	4:16 8.0

Date	High Water		Low Water	
	First Time Reading	Second Time Reading	First Time Reading	Second Time Reading
Sept 5	10:36A	4.1	10:49P	4.2
6	11:03	4.0	11:18	4.8
7	11:28	4.0	11:47	5.4
8	0:44	...	12:07	4.2
9	0:43	5.5	12:42	4.4
10	2:36	—	1:58	4.5
11	4:46	5.2	3:38	4.0

Date	High Water		Low Water	
	First Time Reading	Second Time Reading	First Time Reading	Second Time Reading
Sept 12	6:10A	4.7	10:48P	6.5
13	6:45	4.6	0:06	9.3
14	7:21	4.2	0:50	9.2
15	7:53	2.5	1:29	9.4
16	8:27	2.3	2:06	8.5
17	9:00	2.2	2:41	9.7
18	9:36	2.8	3:22	9.5
			9.1	

HIGH WATER LOW WATER  
 FIRST SECOND FIRST SECOND  
 Date time Road Time Road Time Road Time Road

10:15  
 10:34  
 4:03 ✓  
 4:25

High Water Low Water  
 First Second First Second

Date	AM.	PM	AM	PM
Sep 19	10:15 ✓	10:34 ✓	4:03 ✓	4:25 ✓
20	10:52 ✓	11:22 ✓	4:41 ✓	5:09 ✓
21	11:35 ✓	✓	5:20 ✓	6:03 ✓
22	0:21 ✓	12:20 ✓	6:05 ✓	7:10 ✓
23	1:45 ✓	1:21 ✓	7:07 ✓	8:36 ✓
24	3:48 ✓	2:45 ✓	8:42 ✓	10:07 ✓
25	5:26 ✓	4:15 ✓	10:37 ✓	11:21 ✓
26	6:23 ✓	5:27 ✓	11:32 ✓	11:52 ✓

High Water  
First Second  
Date Time read Time read

Low Water  
First Second  
Date Time read Time read

Elevations for 5<sup>th</sup> St Street  
 from  
 South line Nutmeg St. to.

J. J. Shaw Transit and Level  
 J. W. Williams Chain and Rod  
 F. J. Shaw Chain

Sta.	+	HI	-	Elev.	B.M.
B.M.	4.61	283.93		279.32	279.32
103+72			5.46	78.47	
103+80			5.50	78.43	
103+97			5.48	78.45	
104+22			5.34	78.59	
+47			5.28	78.65	
+72			5.22	78.71	
+97			5.16	78.77	
105+22			5.05	78.88	
+47			4.96	78.97	
+72			4.91	79.02	
+97			4.81	79.12	
106+22			4.74	79.19	
+47			4.62	79.31	
+72			4.52	79.41	
B.M.			1.84		282.09
+80			4.52	79.41	
+97			4.54	79.39	
107+22			4.56	79.37	

July 20<sup>th</sup> 1894

S.E. cor Apt 6 NW of Cor.

North Line of Quince St.

Contractor commenced work  
July 23<sup>rd</sup> 1894

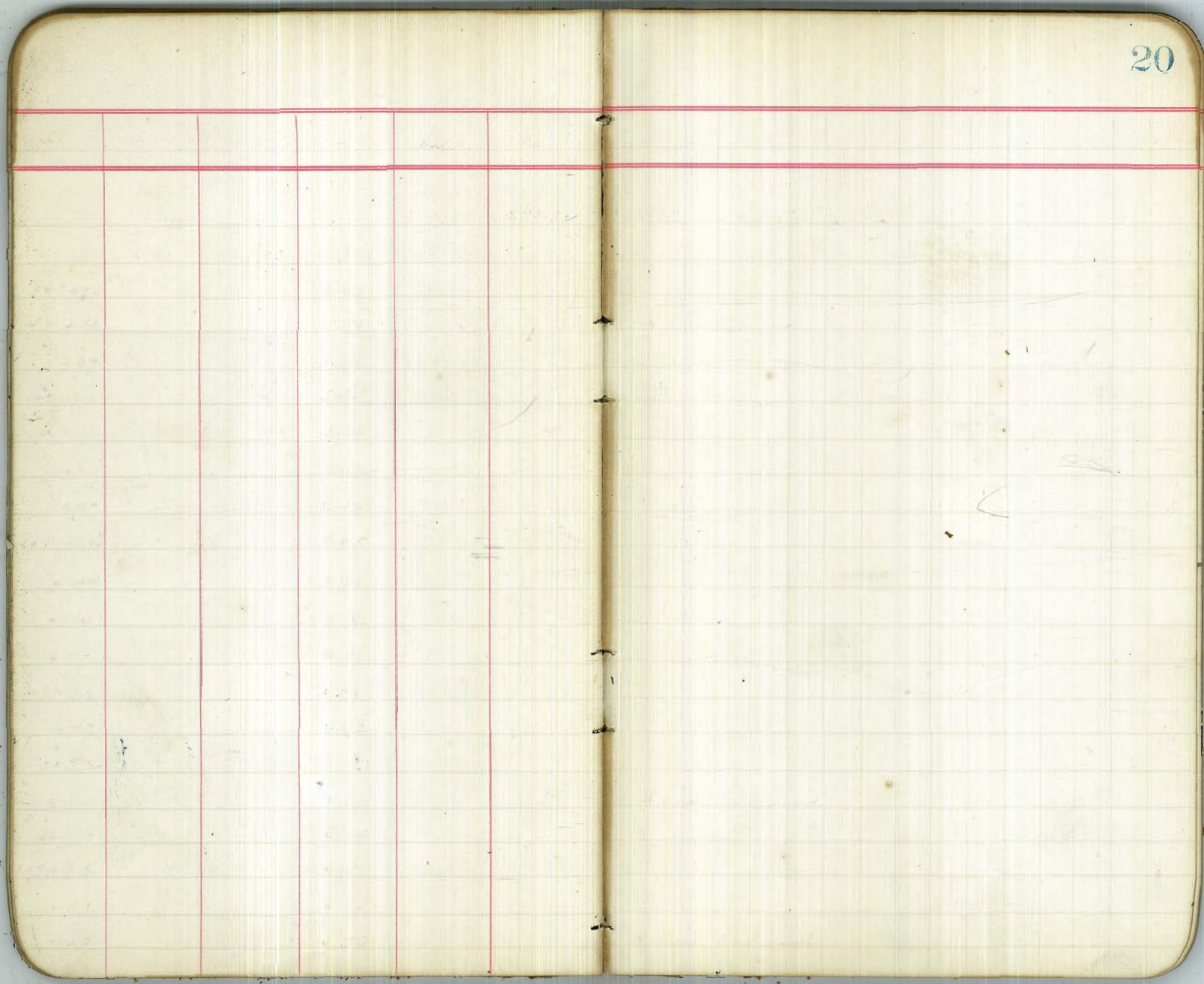
Changed Station to East  
 line of Centre of 5<sup>th</sup> Street  
 July 23<sup>rd</sup> 1894

S.E. of S.E. cor Redwood & 5<sup>th</sup>  
 S. line of Redwood

	+	H.I		Elev
		283.93		
107+52			4.64	79.29
+60			4.53	79.40
+77			4.47	79.46
108+02			4.37	79.56
+27			4.31	79.62
+52			4.36	79.57
+77			4.14	79.79
109+02			4.07	79.86
+27			4.04	79.89
+52			3.99	78.94
+77			3.78	280.15
110+02			3.78	80.15
+27			3.55	80.38
+52			3.59	80.34
+60			3.53	80.40
+77			3.51	80.42
111+02			3.55	80.38
+32			3.59	80.34
+40			3.55	280.38

N line of Redwood

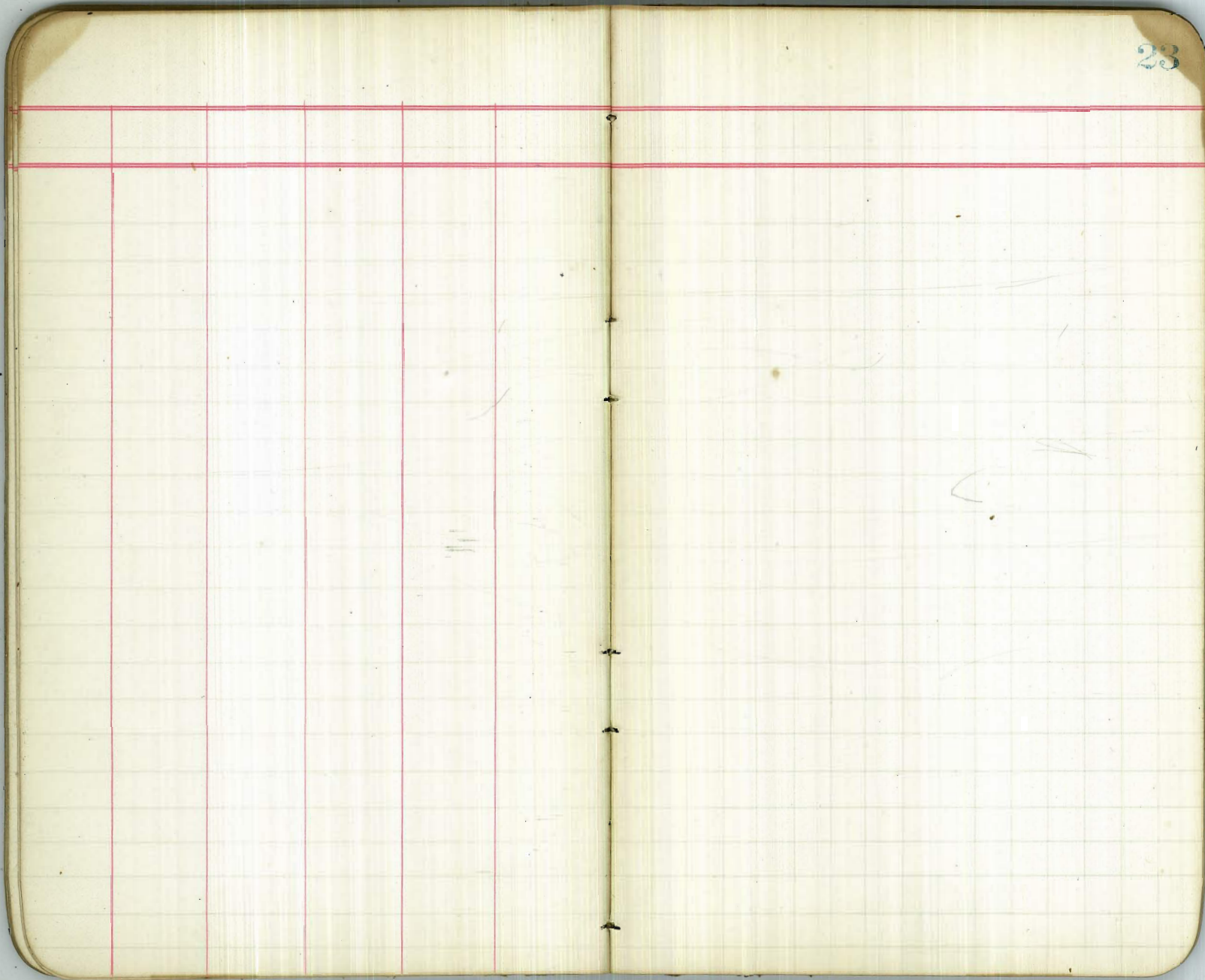
North line of Spruce St.

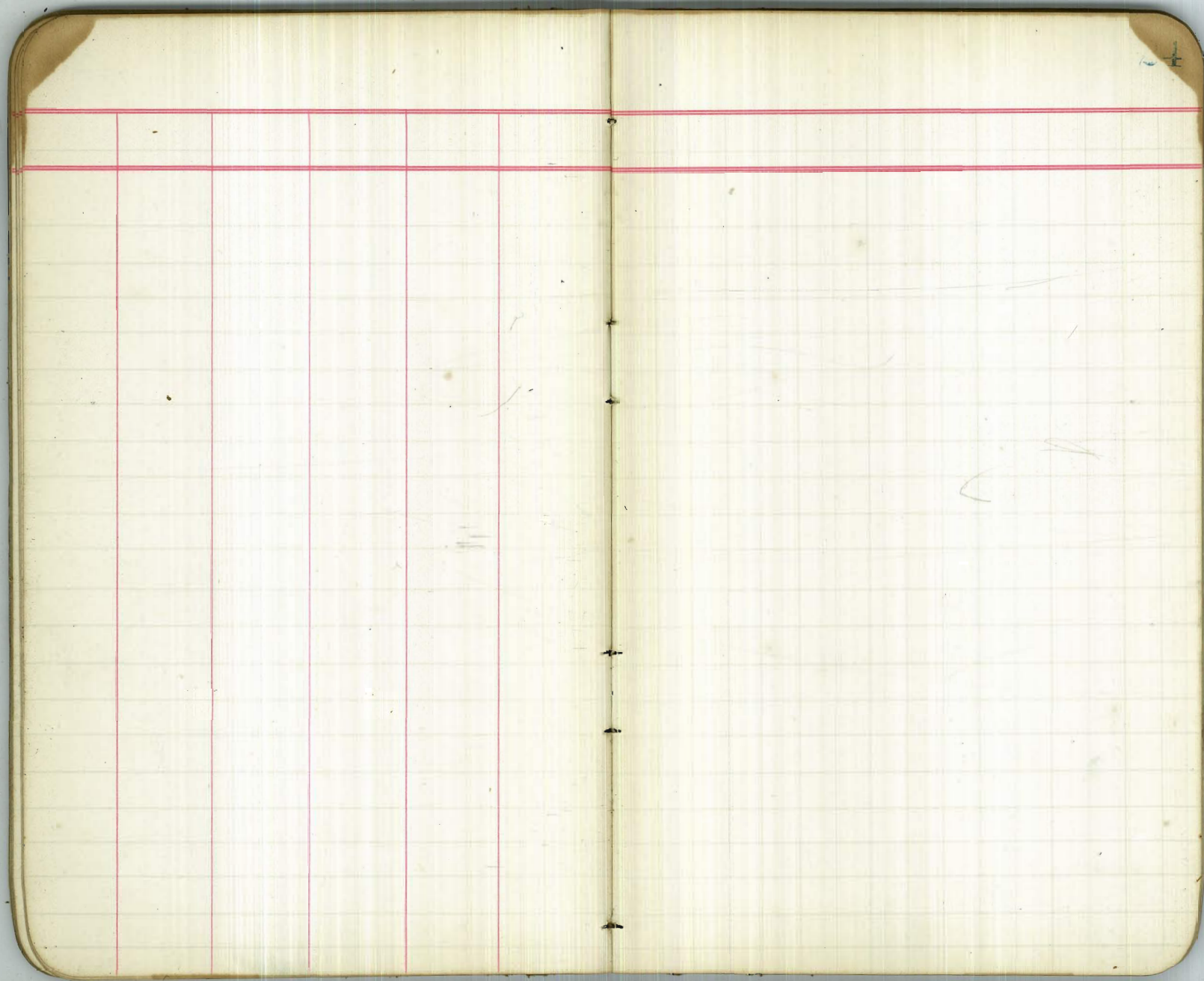


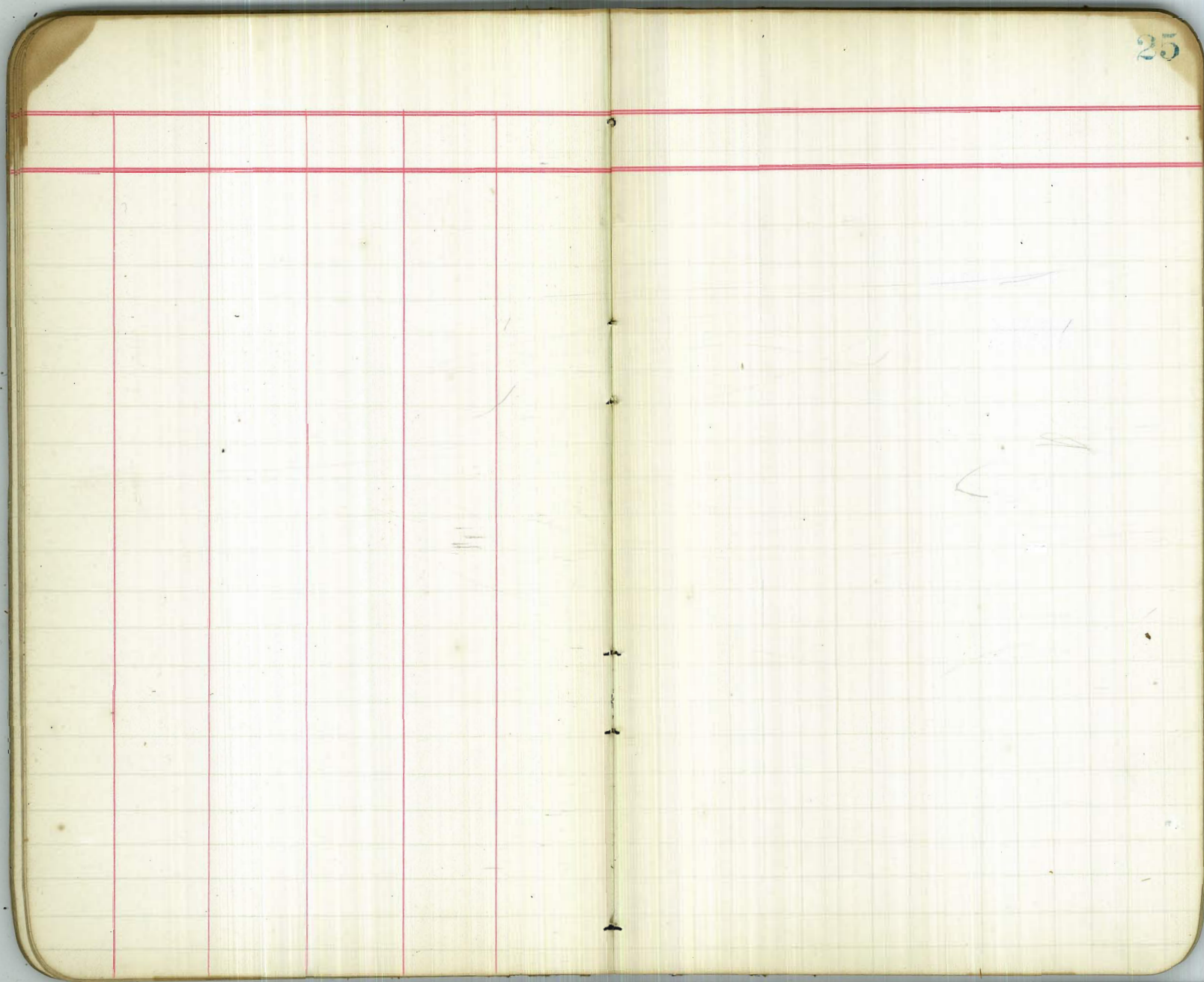
The image shows an open notebook with two pages. The left page is ruled with a grid of red lines, featuring a header section at the top and several vertical columns below. The right page is ruled with a standard grid of red lines. The number '21' is printed in the top right corner of the right page. The notebook is placed on a light-colored surface.



The image shows an open notebook with two pages. The left page is ruled with a grid and has a vertical margin line on the left. The right page is ruled with a grid and has the number '22' printed in the top right corner. The notebook is placed on a light-colored surface.









5<sup>th</sup> St Sewer  
North of S. Line Nutmeg St.

27

Sta.	Elev.	Grade	Out	
91+60		257.75		S. line of Nutmeg St.
+80				
97+00				Nutmeg St.
+20				
+40				N. Line of Nutmeg St.

5th Sewer  
North of Nutmeg St.

Sta.	Elev	Grade	Cut		
------	------	-------	-----	--	--

		211.16			
		211.00			
		210.84			
		210.68			
		210.52			
		210.36			
		210.20			
		210.04			
		209.88			
		209.72			
		209.56			
		209.40			
		209.24			
		209.08			
		208.92			
		208.76			
		208.60			
		208.44			
		208.28			
		208.12			
		207.96			
		207.80			
		207.64			
		207.48			
		207.32			
		207.16			
		207.00			
		206.84			
		206.68			
		206.52			
		206.36			
		206.20			
		206.04			
		205.88			
		205.72			
		205.56			
		205.40			
		205.24			
		205.08			
		204.92			
		204.76			
		204.60			
		204.44			
		204.28			
		204.12			
		203.96			
		203.80			
		203.64			
		203.48			
		203.32			
		203.16			
		203.00			
		202.84			
		202.68			
		202.52			
		202.36			
		202.20			
		202.04			
		201.88			
		201.72			
		201.56			
		201.40			
		201.24			
		201.08			
		200.92			
		200.76			
		200.60			
		200.44			
		200.28			
		200.12			
		200.00			





5th St Sewer  
North of Nutmeg Street

30

Sta. 5th Grade Cut

Sta.	5th	Grade	Cut
100			
101			
102			
103			
104			
105			
106			
107			
108			
109			
110			
111			
112			
113			
114			
115			
116			
117			
118			
119			
120			
121			
122			
123			
124			
125			
126			
127			
128			
129			
130			
131			
132			
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135			
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137			
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139			
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141			
142			
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145			
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165			
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167			
168			
169			
170			
171			
172			
173			
174			
175			
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179			
180			
181			
182			
183			
184			
185			
186			
187			
188			
189			
190			
191			
192			
193			
194			
195			
196			
197			
198			
199			
200			

5th St. Sewer  
North of Nutmeg Street

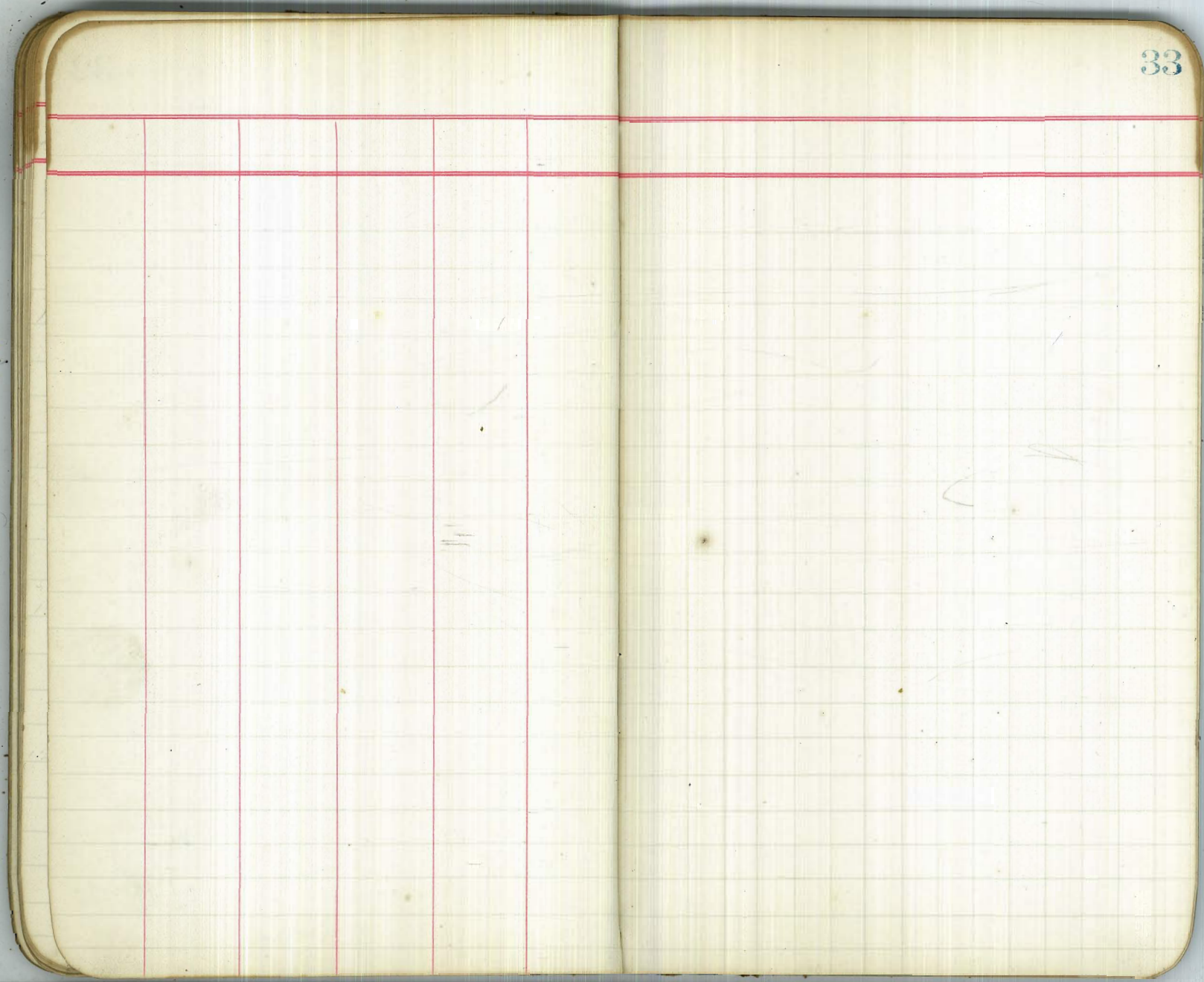
31

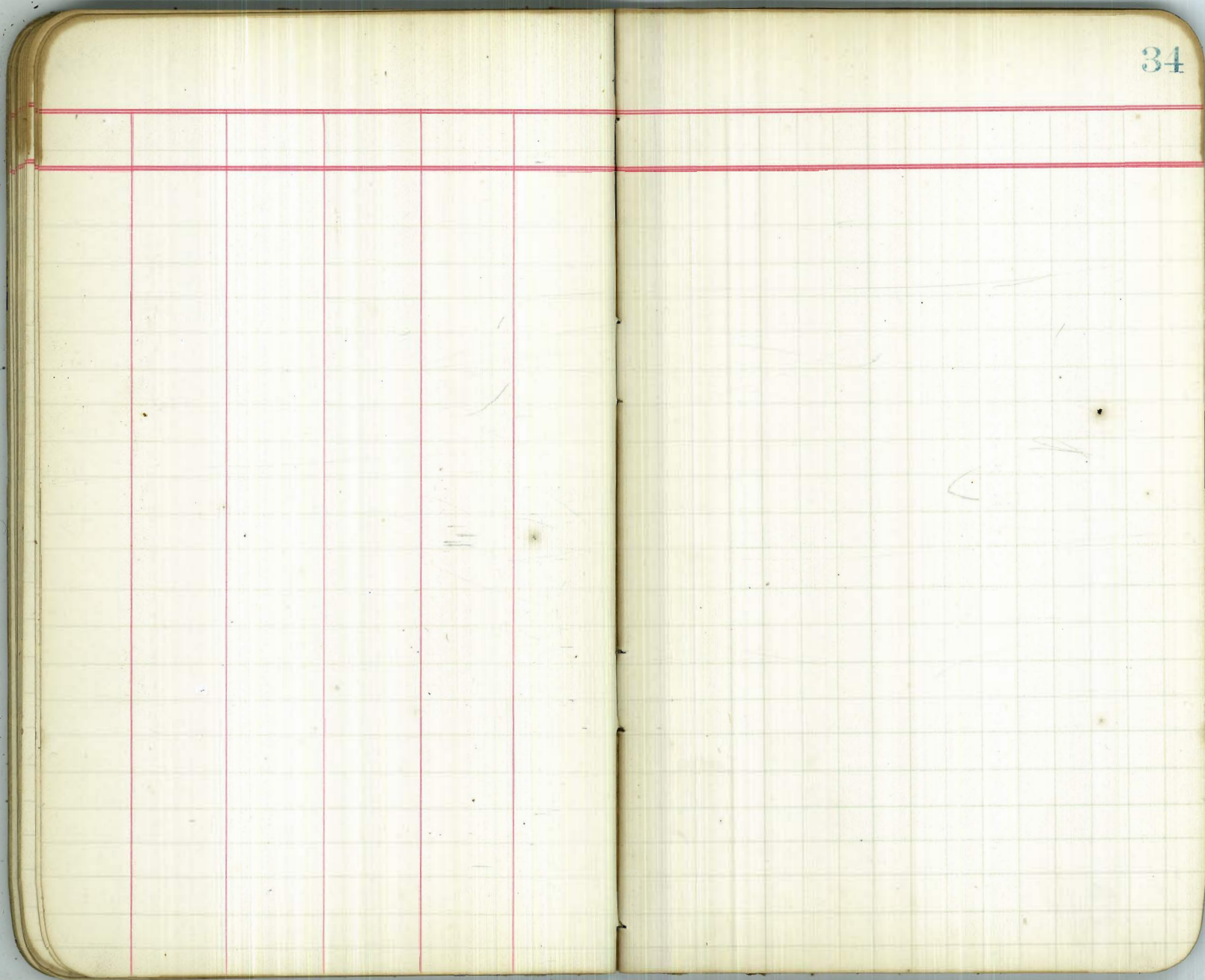
Sta	Elev	Grade	Cut
100	2.00	2.00	
101	2.00	2.00	
102	2.00	2.00	
103	2.00	2.00	
104	2.00	2.00	
105	2.00	2.00	
106	2.00	2.00	
107	2.00	2.00	
108	2.00	2.00	
109	2.00	2.00	
110	2.00	2.00	
111	2.00	2.00	
112	2.00	2.00	
113	2.00	2.00	
114	2.00	2.00	
115	2.00	2.00	
116	2.00	2.00	
117	2.00	2.00	
118	2.00	2.00	
119	2.00	2.00	
120	2.00	2.00	

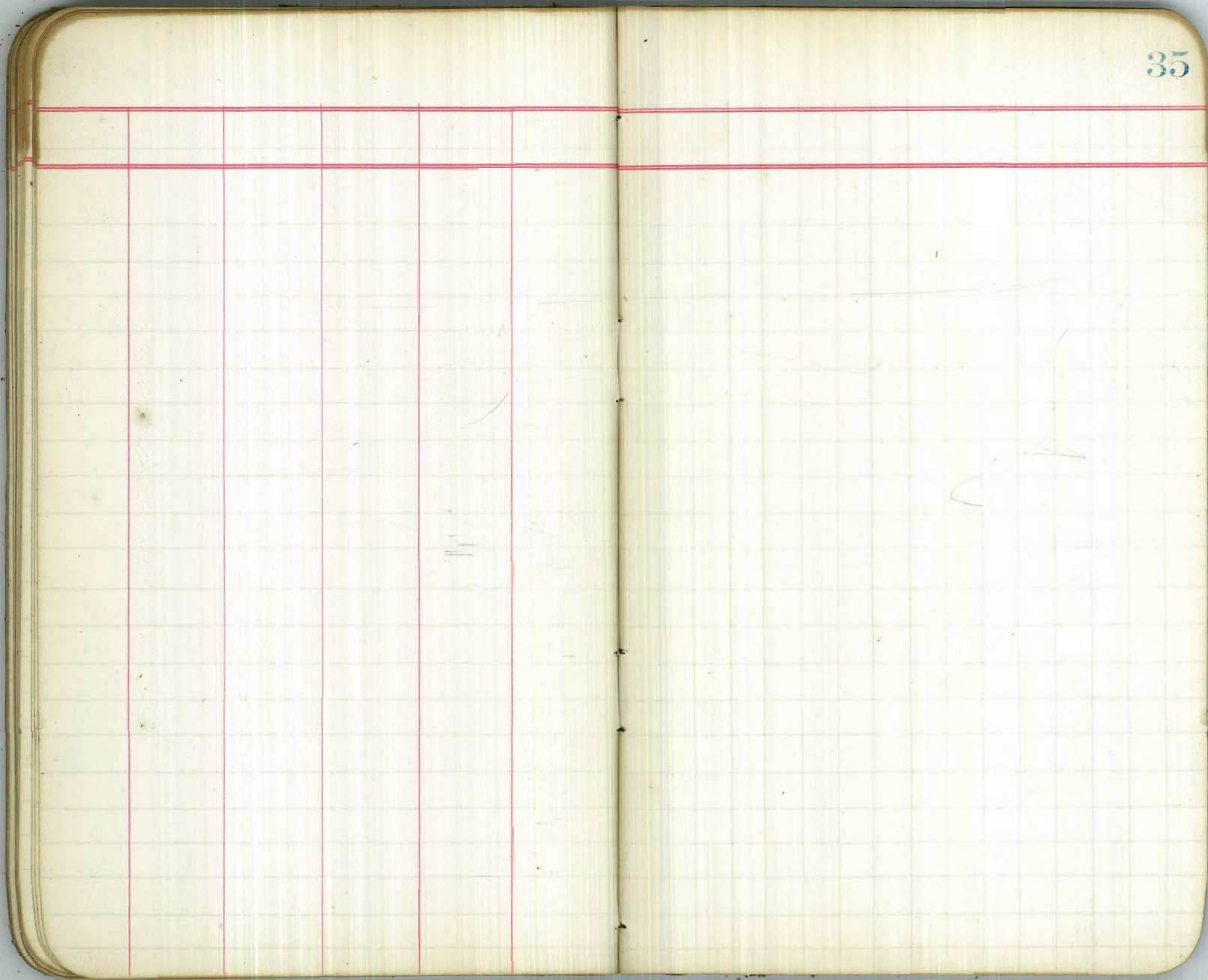
5th St. Sewer  
 North of Nutmeg St

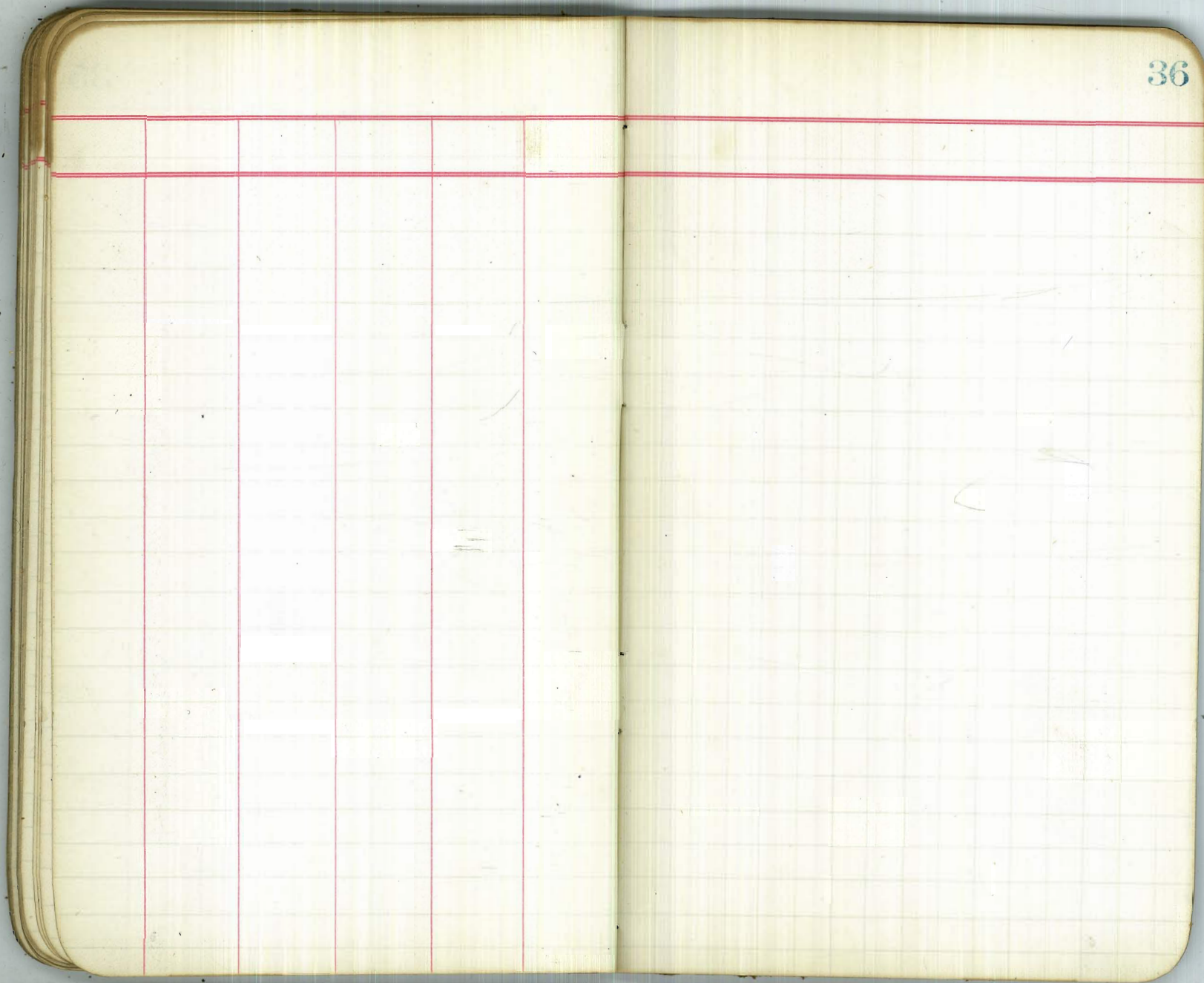
Sta.	Elev.	Grade	Cut
100+0	27.20		
100+5	27.25		
101+0	27.30		
101+5	27.35		
102+0	27.40		
102+5	27.45		
103+0	27.50		
103+5	27.55		
104+0	27.60		
104+5	27.65		
105+0	27.70		
105+5	27.75		
106+0	27.80		
106+5	27.85		
107+0	27.90		
107+5	27.95		
108+0	28.00		
108+5	28.05		
109+0	28.10		
109+5	28.15		
110+0	28.20		
110+5	28.25		
111+0	28.30		
111+5	28.35		
112+0	28.40		
112+5	28.45		
113+0	28.50		
113+5	28.55		
114+0	28.60		
114+5	28.65		
115+0	28.70		
115+5	28.75		
116+0	28.80		
116+5	28.85		
117+0	28.90		
117+5	28.95		
118+0	29.00		
118+5	29.05		
119+0	29.10		
119+5	29.15		
120+0	29.20		
120+5	29.25		
121+0	29.30		
121+5	29.35		
122+0	29.40		
122+5	29.45		
123+0	29.50		
123+5	29.55		
124+0	29.60		
124+5	29.65		
125+0	29.70		
125+5	29.75		
126+0	29.80		
126+5	29.85		
127+0	29.90		
127+5	29.95		
128+0	30.00		
128+5	30.05		
129+0	30.10		
129+5	30.15		
130+0	30.20		
130+5	30.25		
131+0	30.30		
131+5	30.35		
132+0	30.40		
132+5	30.45		
133+0	30.50		
133+5	30.55		
134+0	30.60		
134+5	30.65		
135+0	30.70		
135+5	30.75		
136+0	30.80		
136+5	30.85		
137+0	30.90		
137+5	30.95		
138+0	31.00		
138+5	31.05		
139+0	31.10		
139+5	31.15		
140+0	31.20		
140+5	31.25		
141+0	31.30		
141+5	31.35		
142+0	31.40		
142+5	31.45		
143+0	31.50		
143+5	31.55		
144+0	31.60		
144+5	31.65		
145+0	31.70		
145+5	31.75		
146+0	31.80		
146+5	31.85		
147+0	31.90		
147+5	31.95		
148+0	32.00		
148+5	32.05		
149+0	32.10		
149+5	32.15		
150+0	32.20		
150+5	32.25		
151+0	32.30		
151+5	32.35		
152+0	32.40		
152+5	32.45		
153+0	32.50		
153+5	32.55		
154+0	32.60		
154+5	32.65		
155+0	32.70		
155+5	32.75		
156+0	32.80		
156+5	32.85		
157+0	32.90		
157+5	32.95		
158+0	33.00		
158+5	33.05		
159+0	33.10		
159+5	33.15		
160+0	33.20		
160+5	33.25		
161+0	33.30		
161+5	33.35		
162+0	33.40		
162+5	33.45		
163+0	33.50		
163+5	33.55		
164+0	33.60		
164+5	33.65		
165+0	33.70		
165+5	33.75		
166+0	33.80		
166+5	33.85		
167+0	33.90		
167+5	33.95		
168+0	34.00		
168+5	34.05		
169+0	34.10		
169+5	34.15		
170+0	34.20		
170+5	34.25		
171+0	34.30		
171+5	34.35		
172+0	34.40		
172+5	34.45		
173+0	34.50		
173+5	34.55		
174+0	34.60		
174+5	34.65		
175+0	34.70		
175+5	34.75		
176+0	34.80		
176+5	34.85		
177+0	34.90		
177+5	34.95		
178+0	35.00		
178+5	35.05		
179+0	35.10		
179+5	35.15		
180+0	35.20		
180+5	35.25		
181+0	35.30		
181+5	35.35		
182+0	35.40		
182+5	35.45		
183+0	35.50		
183+5	35.55		
184+0	35.60		
184+5	35.65		
185+0	35.70		
185+5	35.75		
186+0	35.80		
186+5	35.85		
187+0	35.90		
187+5	35.95		
188+0	36.00		
188+5	36.05		
189+0	36.10		
189+5	36.15		
190+0	36.20		
190+5	36.25		
191+0	36.30		
191+5	36.35		
192+0	36.40		
192+5	36.45		
193+0	36.50		
193+5	36.55		
194+0	36.60		
194+5	36.65		
195+0	36.70		
195+5	36.75		
196+0	36.80		
196+5	36.85		
197+0	36.90		
197+5	36.95		
198+0	37.00		
198+5	37.05		
199+0	37.10		
199+5	37.15		
200+0	37.20		
200+5	37.25		

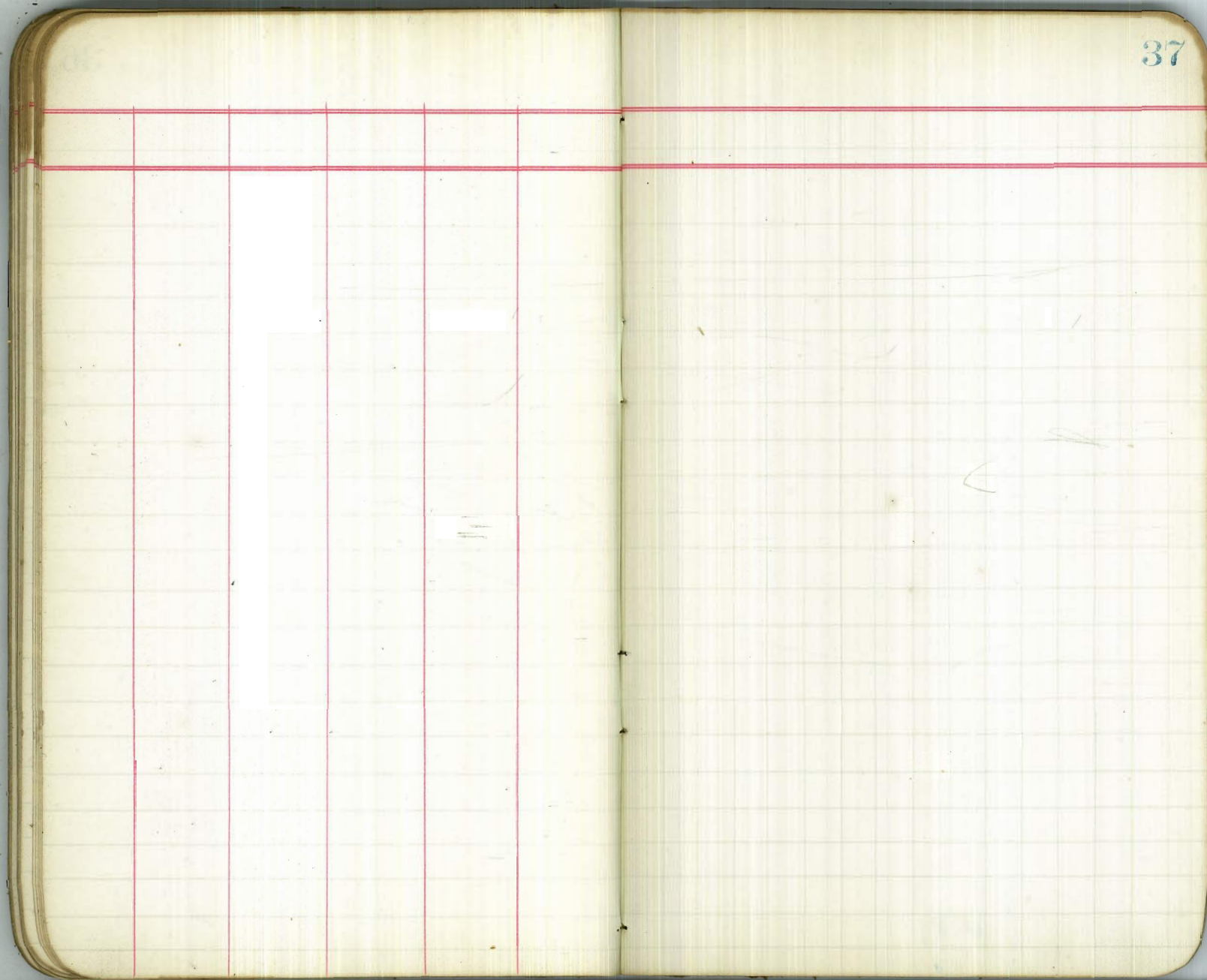
Blank grid area on the right page of the notebook, containing some faint pencil markings and a small sketch of a curve or slope.





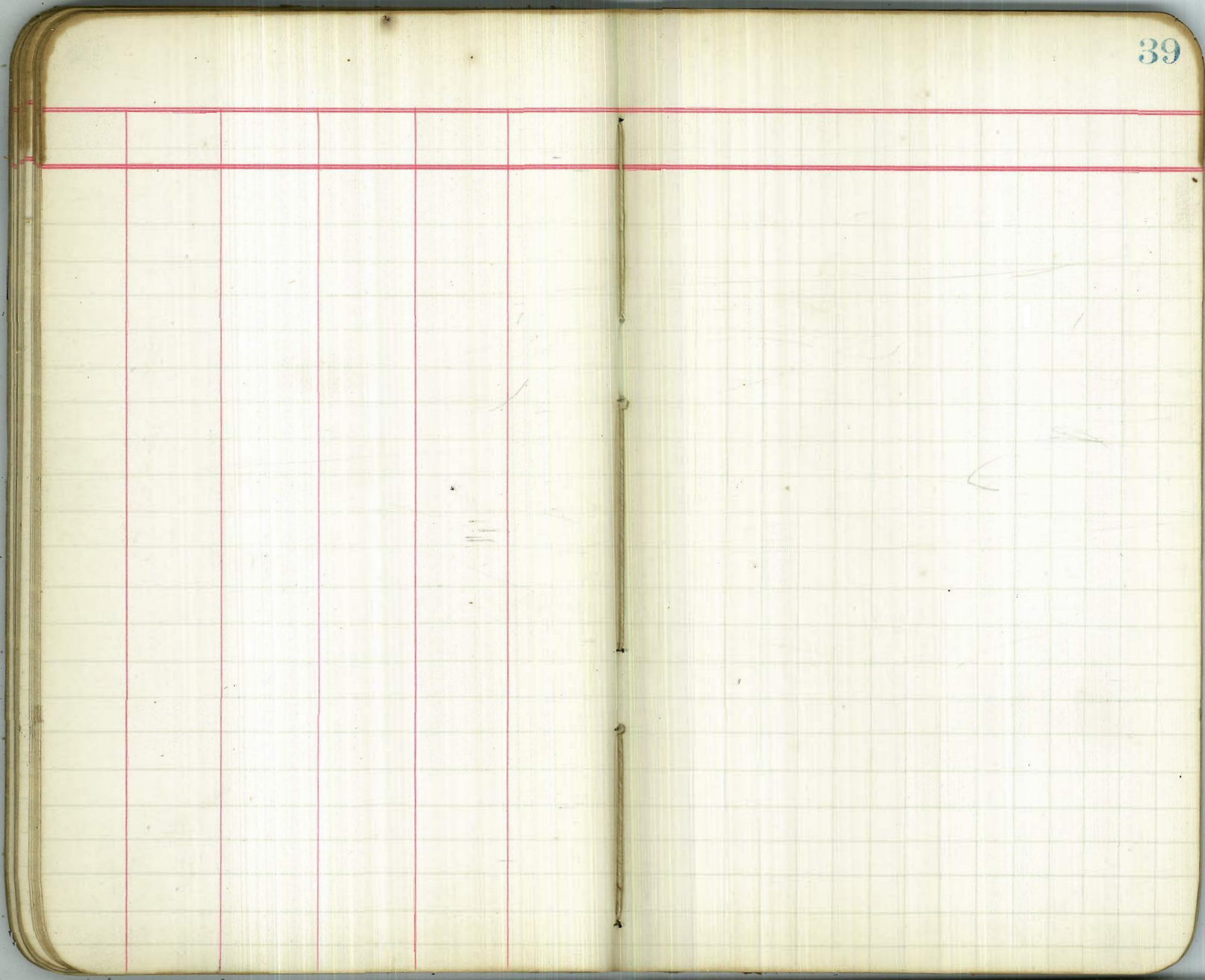


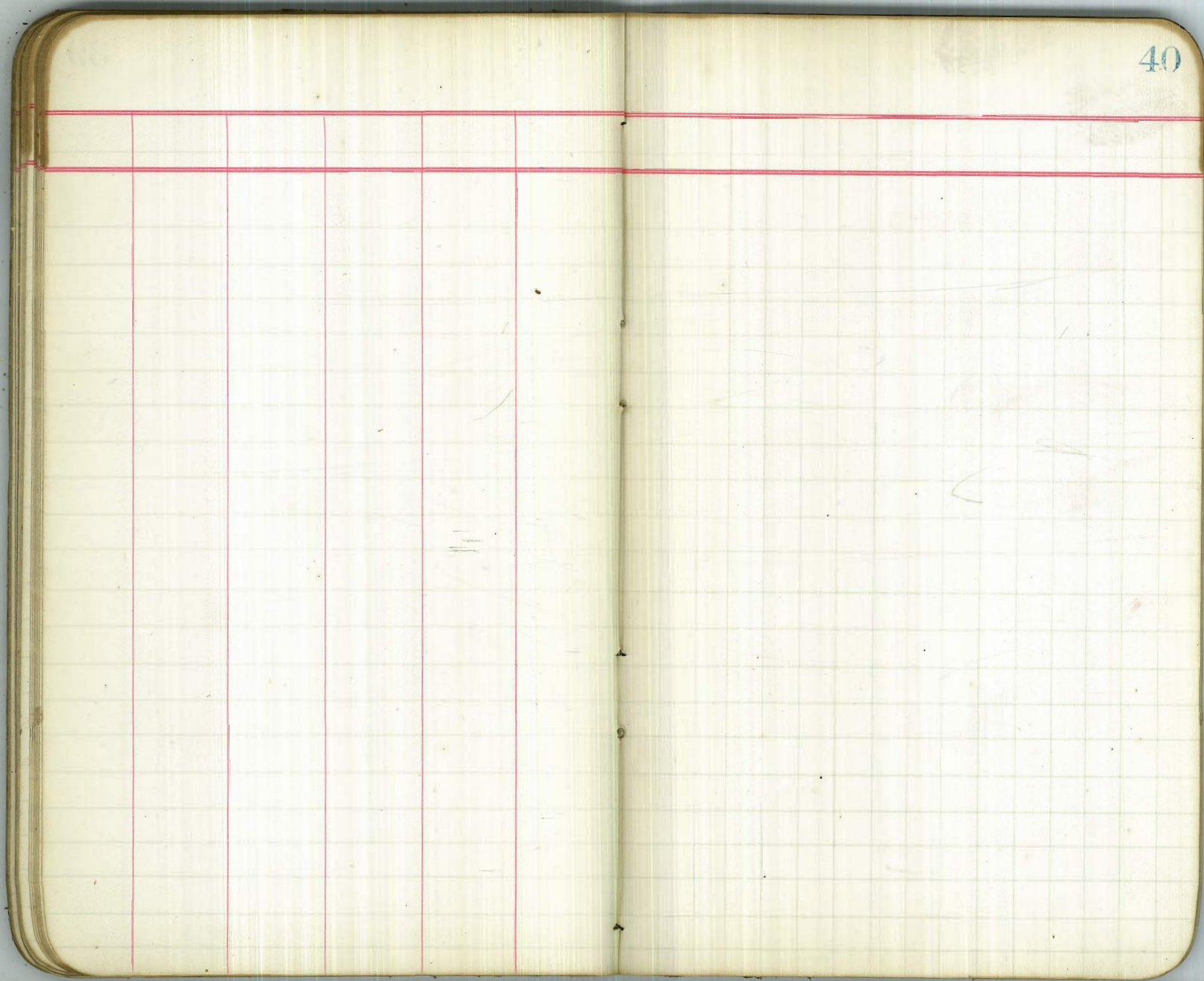


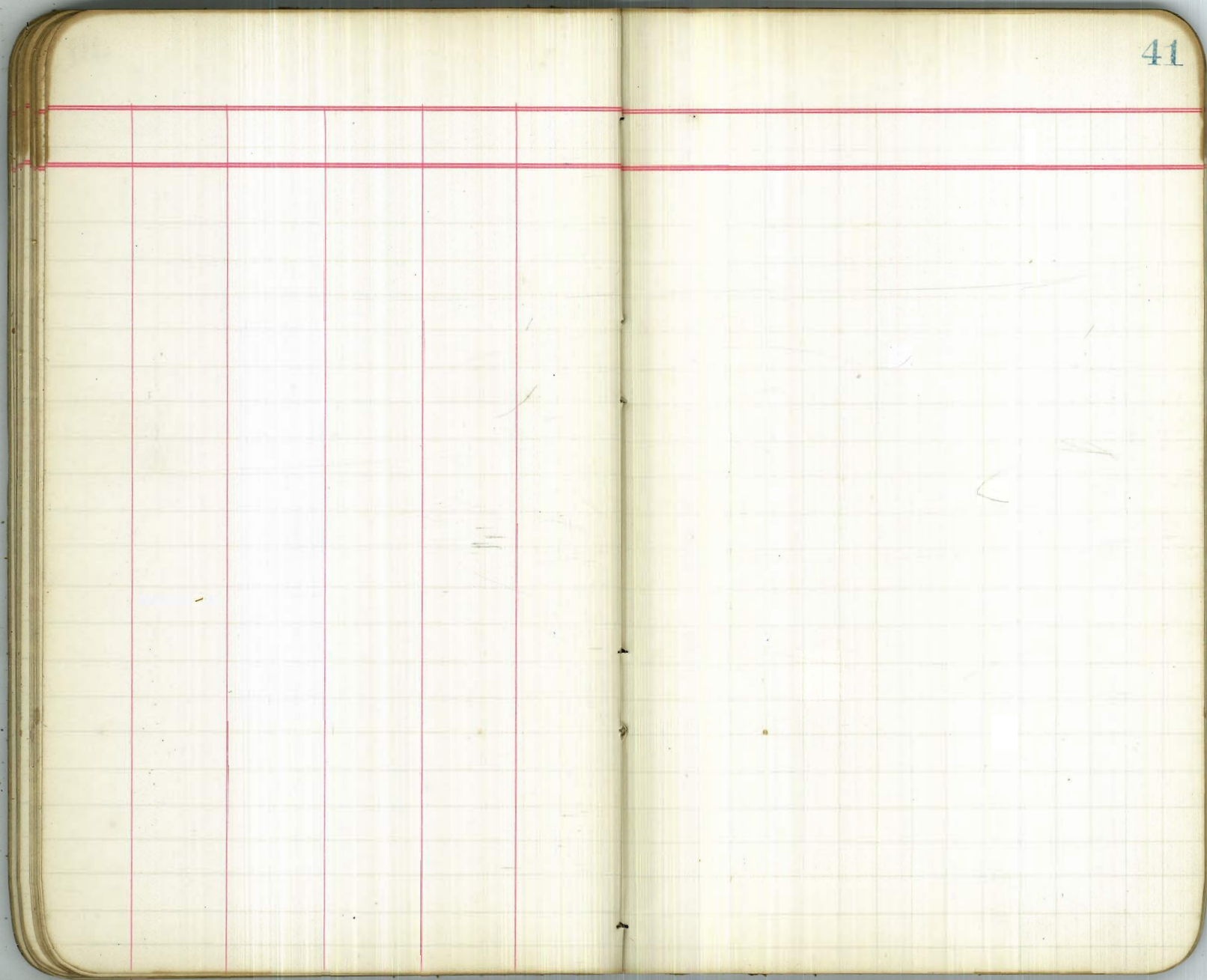


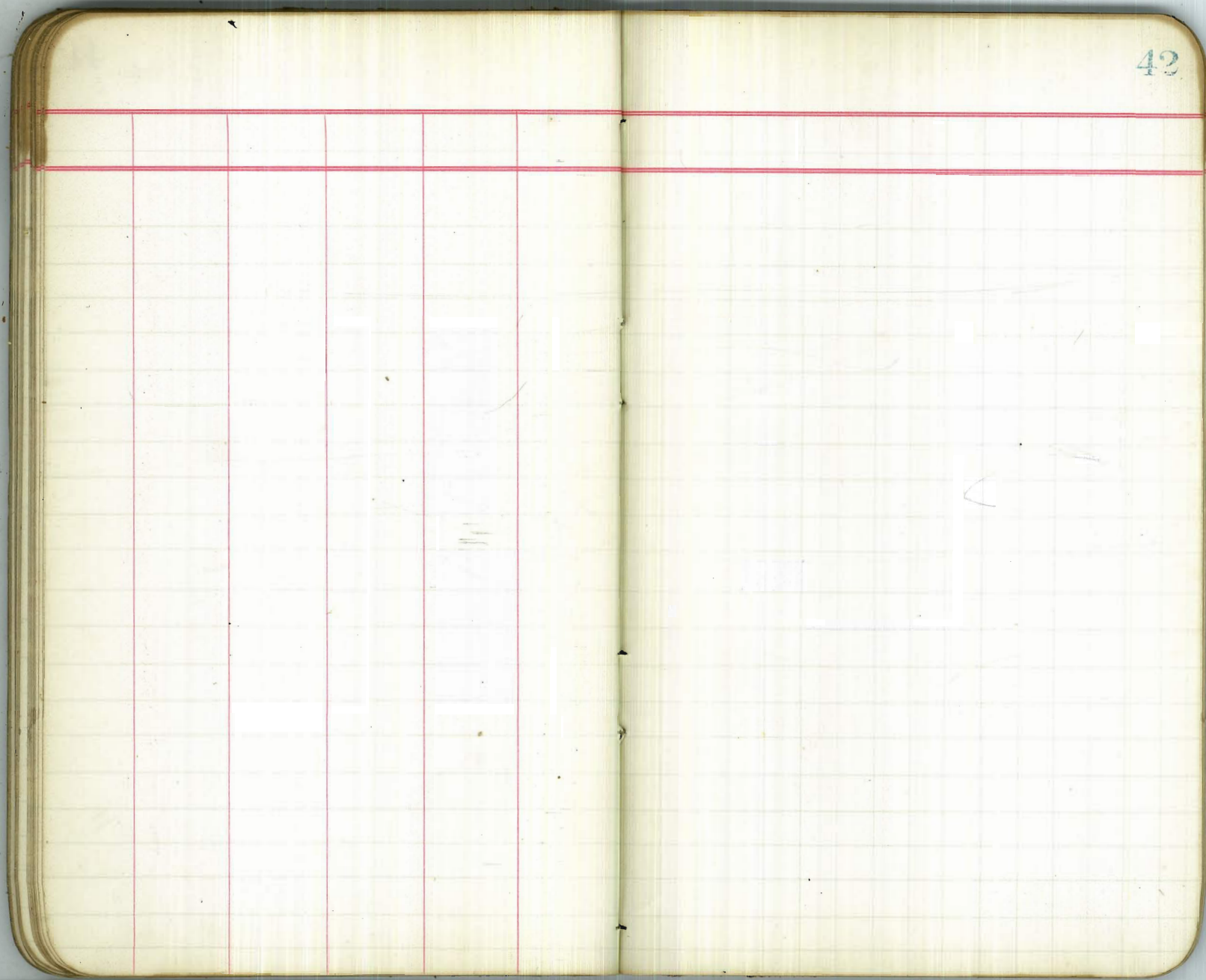


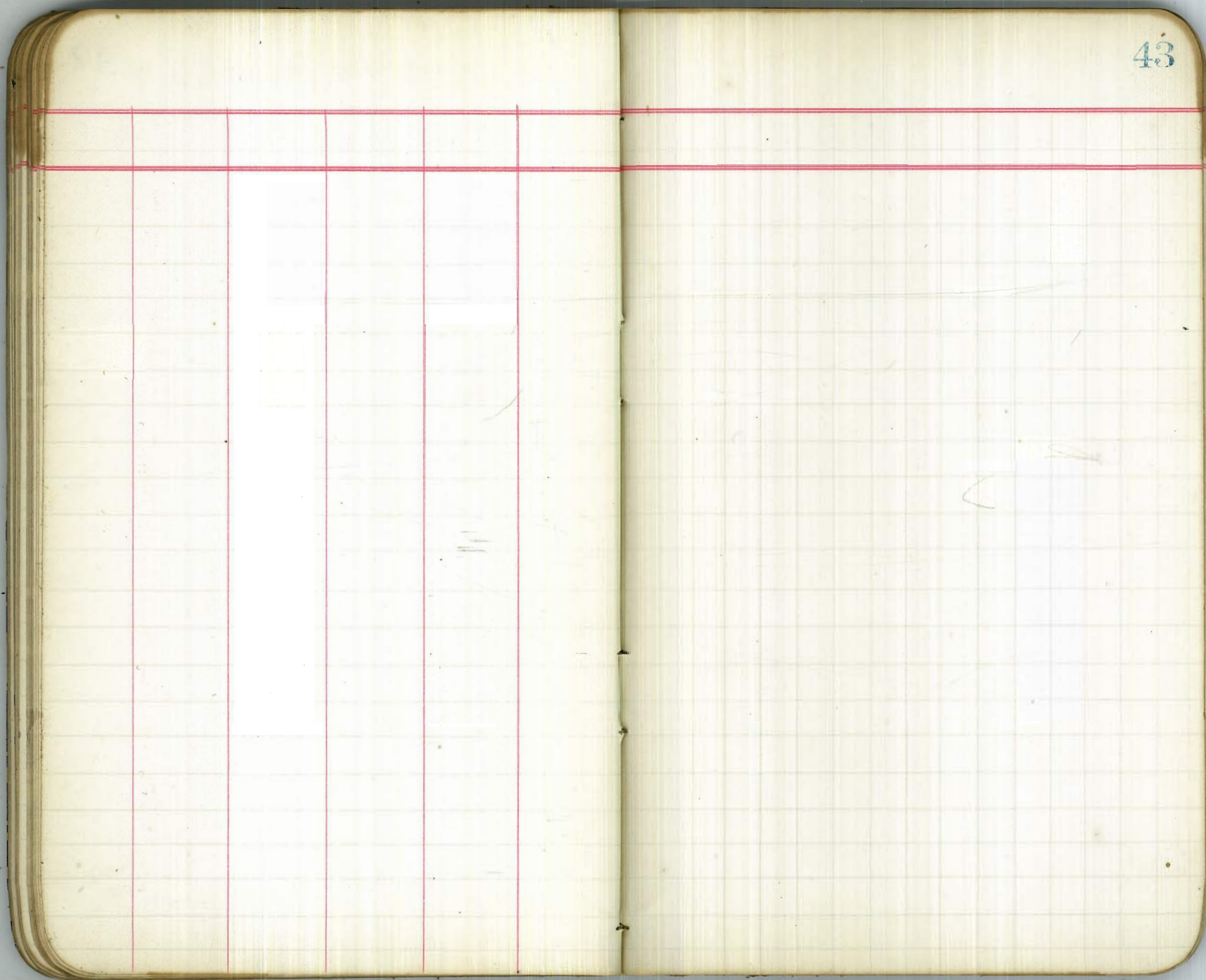
The image shows an open notebook with two pages. The pages are cream-colored and feature light blue horizontal ruling. The left page has a red margin line on the left side and a red grid line near the top. The right page has a red margin line on the left side. The number '38' is printed in blue in the top right corner of the right page. The notebook is placed on a grey surface.



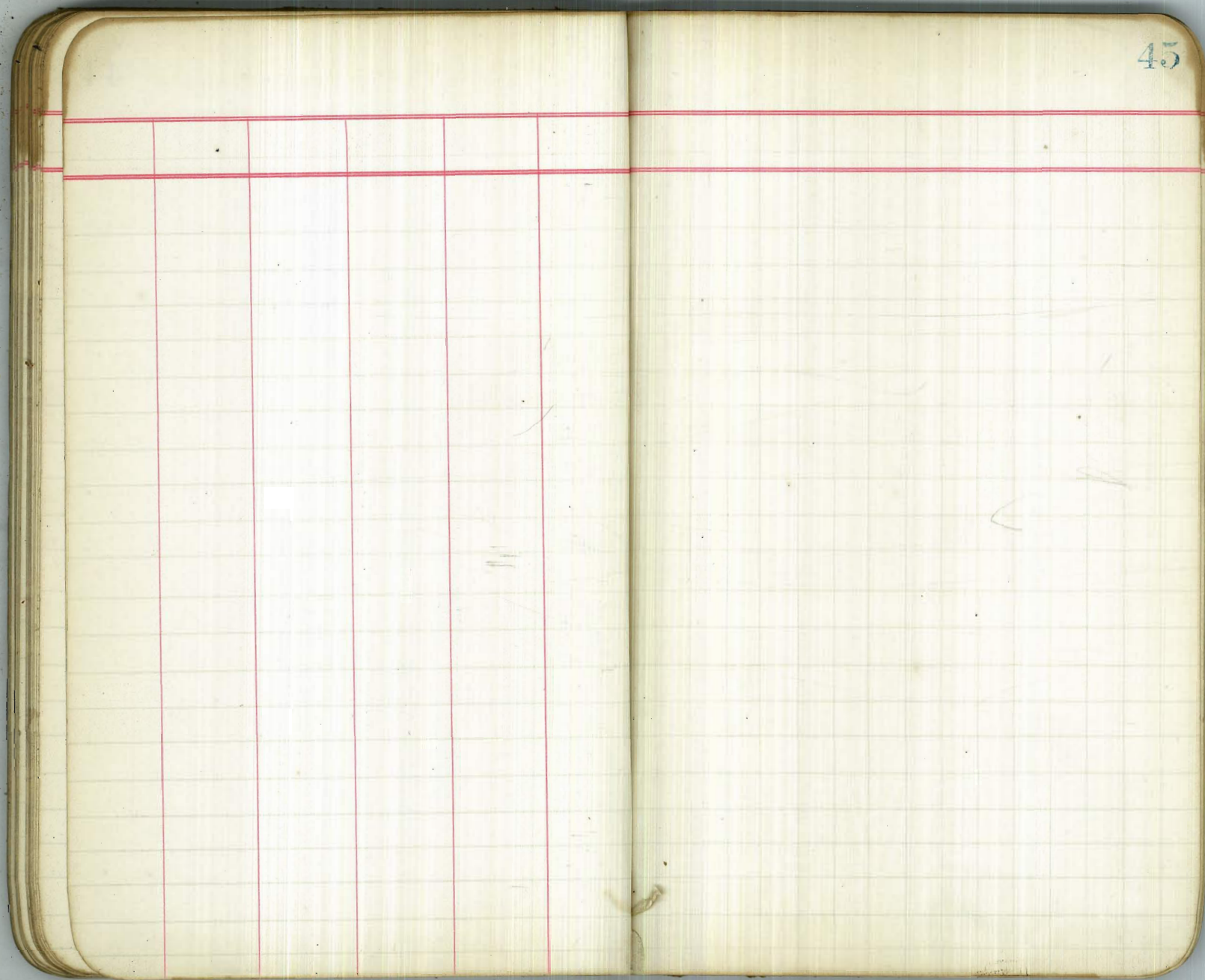




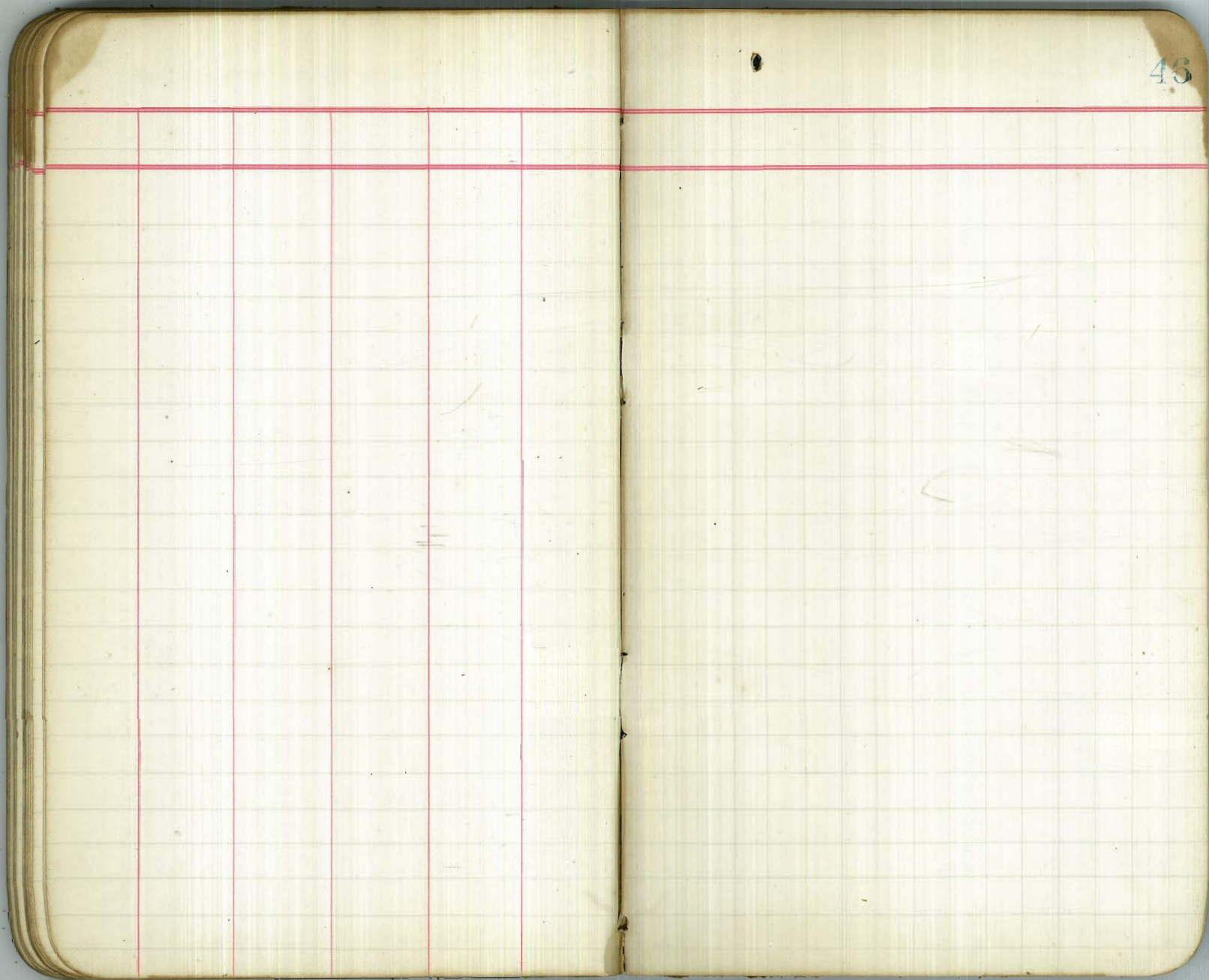


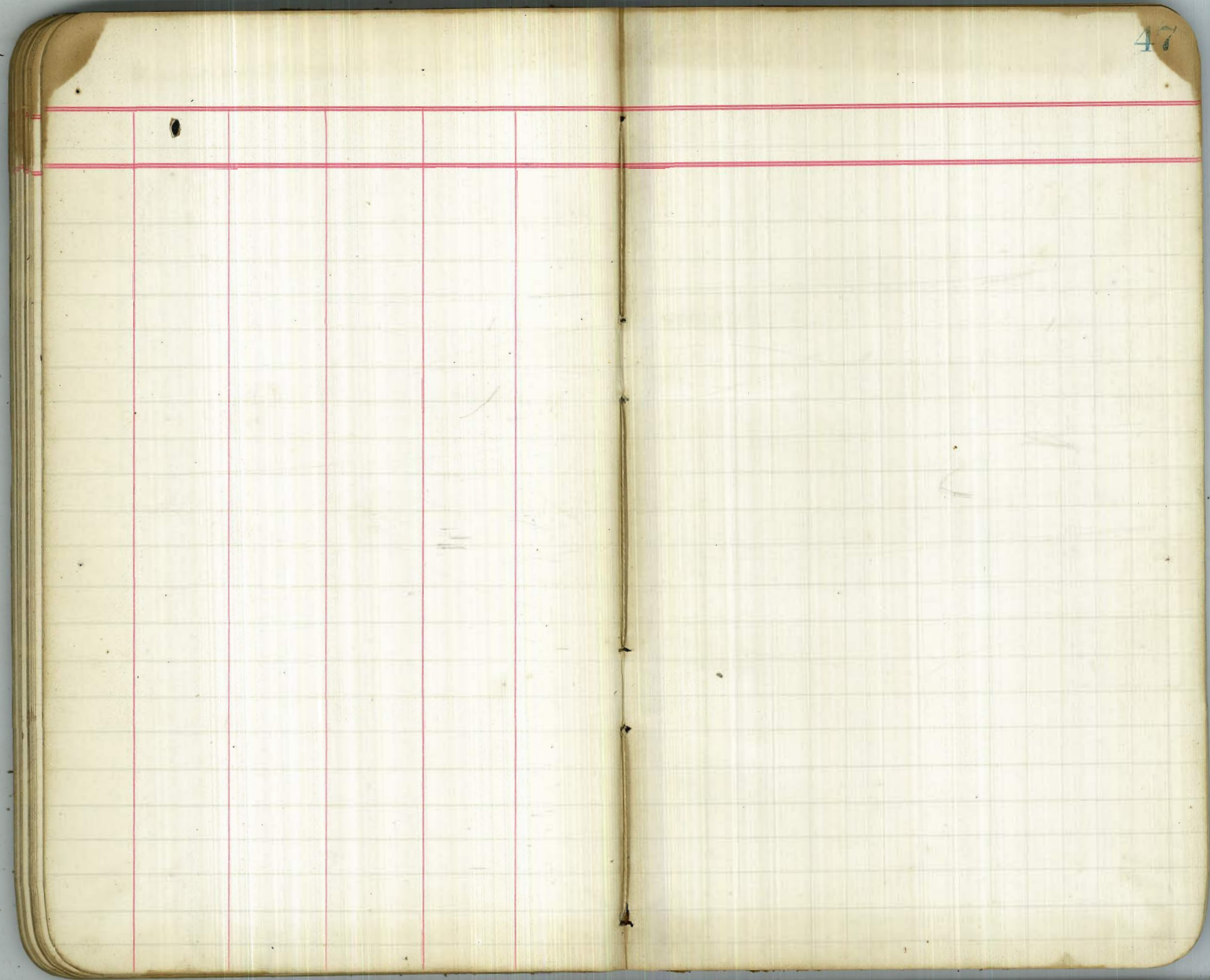


The image shows an open notebook with two pages. The left page is ruled with a grid and has four vertical red lines, creating five columns. The right page is ruled with a grid and has the number 44 in the top right corner. The notebook is placed on a light-colored surface.









## Barsters

5 <sup>th</sup> Nutmeg	S.E. Spk in Tel. pole	263.81
5 <sup>th</sup> Olive	S.E. " " "	271.38
5 <sup>th</sup> Palm	SW Nozzle of Hydrant	277.24
5 <sup>th</sup> Quince	S.E. Spk 6" NW of cor	279.32
5 <sup>th</sup> Redwood	S.E. " 3' East of cor	282.09
5 <sup>th</sup> Spruce	S.E. { 5' East of corner East side top of stake	283.46
5 <sup>th</sup> Thorn	S.E. Spk Tel. pole	281.40
5 <sup>th</sup> " Upas	N.E. Spk " "	287.94
5 <sup>th</sup> " Walnut		
5 <sup>th</sup> " Broke	SW Spk. Elec. pole =	280.19

Sta	B.S	H.I.	F.S	El
-----	-----	------	-----	----

	5.40	105.40		
--	------	--------	--	--

			100.	
--	--	--	------	--

			3.18	
--	--	--	------	--

			4.83	
--	--	--	------	--

			7.64	
--	--	--	------	--

B.M.

dy  
10  
adv  
ach  
dy  
2  
es

196 1/4 - 208 1/2 no. lot 2  
 221 (G-L)  
 251



236 no. lot 2  
 252 no. lot 2  
 75-10.00  
 25-8

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	86
1	99.98	1.75	99.98	2.18	99.97	2.62	99.95	3.05	87
2	99.94	3.49	99.92	3.93	99.91	4.36	99.88	4.80	88
3	99.86	5.23	99.84	5.67	99.81	6.10	99.79	6.54	89
4	99.76	6.98	99.73	7.41	99.69	7.85	99.66	8.28	90
5	99.62	8.72	99.58	9.15	99.54	9.58	99.50	10.02	91
6	99.45	10.45	99.41	10.89	99.36	11.32	99.31	11.75	92
7	99.25	12.19	99.20	12.62	99.14	13.05	99.09	13.49	93
8	99.03	13.92	98.97	14.35	98.90	14.78	98.84	15.21	94
9	98.77	15.64	98.70	16.07	98.63	16.50	98.56	16.93	95
10	98.48	17.36	98.40	17.79	98.33	18.22	98.25	18.65	96
11	98.16	19.08	98.08	19.51	97.99	19.94	97.90	20.36	97
12	97.81	20.79	97.72	21.22	97.63	21.64	97.53	22.07	98
13	97.44	22.50	97.34	22.92	97.24	23.34	97.13	23.77	99
14	97.03	24.19	96.92	24.62	96.81	25.04	96.70	25.46	100
15	96.59	25.88	96.48	26.30	96.36	26.72	96.25	27.14	
16	96.13	27.56	96.00	27.98	95.88	28.40	95.76	28.82	
17	95.63	29.24	95.50	29.65	95.37	30.07	95.24	30.49	
18	95.11	30.90	94.97	31.32	94.83	31.73	94.69	32.14	
19	94.55	32.56	94.41	32.97	94.26	33.38	94.12	33.79	
20	93.97	34.20	93.82	34.61	93.67	35.02	93.51	35.43	
21	93.36	35.84	93.20	36.24	93.04	36.65	92.88	37.06	
22	92.72	37.46	92.55	37.86	92.39	38.27	92.22	38.67	
23	92.05	39.07	91.88	39.47	91.71	39.87	91.53	40.27	
24	91.35	40.67	91.18	41.07	91.00	41.47	90.81	41.87	
25	90.63	42.26	90.45	42.66	90.26	43.05	90.07	43.44	
26	89.88	43.84	89.69	44.23	89.49	44.62	89.30	45.01	
27	89.10	45.40	88.90	45.79	88.70	46.17	88.50	46.56	
28	88.29	46.95	88.09	47.33	87.88	47.72	87.67	48.10	
29	87.46	48.48	87.25	48.86	87.04	49.24	86.82	49.62	
30	86.60	50.00	86.38	50.38	86.16	50.75	85.94	51.13	
31	85.72	51.50	85.49	51.88	85.26	52.25	85.04	52.62	
32	84.80	52.99	84.57	53.36	84.34	53.73	84.10	54.10	
33	83.87	54.46	83.63	54.83	83.39	55.19	83.15	55.56	
34	82.90	55.92	82.66	56.28	82.41	56.64	82.16	57.00	
35	81.92	57.36	81.66	57.71	81.41	58.07	81.16	58.42	
36	80.90	58.78	80.64	59.13	80.39	59.48	80.13	59.83	
37	79.86	60.18	79.60	60.53	79.34	60.88	79.07	61.22	
38	78.80	61.57	78.53	61.91	78.26	62.25	77.99	62.59	
39	77.71	62.93	77.44	63.27	77.16	63.61	76.88	63.94	
40	76.60	64.28	76.32	64.61	76.04	64.94	75.76	65.28	
41	75.47	65.61	75.18	65.93	74.90	66.26	74.61	66.59	
42	74.31	66.91	74.02	67.24	73.73	67.56	73.43	67.88	
43	73.14	68.20	72.84	68.52	72.54	68.84	72.24	69.15	
44	71.93	69.47	71.63	69.78	71.33	70.09	71.02	70.40	
45	70.71	70.71							
Degrees.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Degrees.
	DEGREES.		¼ DEGREE.		¼ DEGREE.		¼ DEGREE.		

by each  
 each  
 2  
 20