

S.T. GOLDTHWAIT
N ST. SEWER

AND
STATE

9

TRANSIT

McDonalds

F.B. 679

N Street

679

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	4½	22	51½	42	98
3	7	23	53½	43	100½
4	9½	24	56	44	102½
5	11½	25	58½	45	105
6	14	26	60½	46	107½
7	16½	27	63	47	109½
8	18½	28	65½	48	112
9	21	29	67½	49	114½
10	23½	30	70	50	116½
11	25½	31	72½	51	119
12	28	32	74½	52	121½
13	30½	33	77	53	123½
14	32½	34	79½	54	126
15	35	35	81½	55	128½
16	37½	36	84	56	130½
17	39½	37	86½	57	133
18	42	38	88½	58	135½
19	44½	39	91	59	137½
20	46½	40	93½	60	140

PUBLISHED BY

EDWARD DENNY & CO.

DRAWING PAPER & MATERIAL, MATHEMATICAL INSTRUMENTS, ETC.,
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.
°		°		°		°	
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

Handwritten notes and a small diagram. The notes include "5 8 n" and "2" above a horizontal line, and "5 8" below it. To the right is a simple sketch of a vertical line with a rectangular box at the top.

Stato 87-

W	E	W	E
			6150
	3150	6148	
3148			6x25-
	3x26	6123	
3x24			6100
	2199	5198	
2197			5175½
	2174	5173½	
2172½			5150
	2150	5148	
2148			5x25½
	2124	5123½	
2122½			4199½
	2100	4197½	
1198			4175½
	1175½	4173½	
1173½			
	1150		
1148			
	1125½		
1123½			3175-
			3173

4x00
 4x00

Gardens

North line of I street

Line I street

State street

W	E	W	E	
	9+25		12+25	North line of E street.
9+23		12+24		
8+98 $\frac{1}{2}$	9+00 $\frac{1}{2}$	Jan 11 11+50		South side E street
8+93	8+95		11+25	
8+49	8+51	11+20		
			11+00	
		10+98		
			10+95	
		10+90		
			10+50	
		10+48		
	7+50		10+25	
7+48		10+20		
	9+25		10+00	
7+20		9+98		
	9+00		9+75	
8+98		9+90		
	6+95 $\frac{1}{2}$		9+51	
6+93 $\frac{1}{2}$		9+49		

State

3

	15+00		
w	E	w	E
14+98			
	14+75		
14+98			18+25
	14+49 1/2	18+28	
14+49 1/2			18+00
	14+25	17+98	
14+25			17+75
	14xw	17+74	
19+98			17+50
	19+75	17+48	
19+98			17+25
	19+50	17+20	
19+48			19+00
	19+25	15+98	
19+20			15+75
	19+00	16+78	
12+98			16+50
	12+75	16+48	
12+98			
	12+50		
12+48			

15+25
Inch

South line of B street

North line B street

State Street

W	E	W	E
	21+00		
20+98		Jim's 23+00	
	20+95		
20+93			22+95
	20+51	22+99	
20+49			22+50
	20+25	22+48	
20+23			
	20+00 North side		© street
19+98 1/2			
			22+25
		22+29	
		21+98	22+00
			21+75
	19+60	21+99	
18+98			21+50
	18+95	21+48 1/2	
18+93			21+25
	18+50	21+24	
18+48			

line of B street

fruits
line C

Jim's
19+20

State Street

W	E	W	E
	25+04 ^k		28+83-
26+02		28+88	
	25+80		28+81
25+78		28+89	
	25+55-		28+95-
25+53		28+87	
	25+30		28+10
25+28		28+04	
	25+05-		27+85-
25+03		27+83	
	24+80		27+60
24+78		27+55	
	24+55-		
24+53			
	24+30		
24+28			
	24+04		26+54
24+02		26+52	
23+80	23+80		26+30
23+78		26+28	

North line of A street

Inspection
26+78

2 ft. back of line of A street

State sheet

W

E

29+85- End of pipe

King of ... 29+71 ...

29+50

29+58

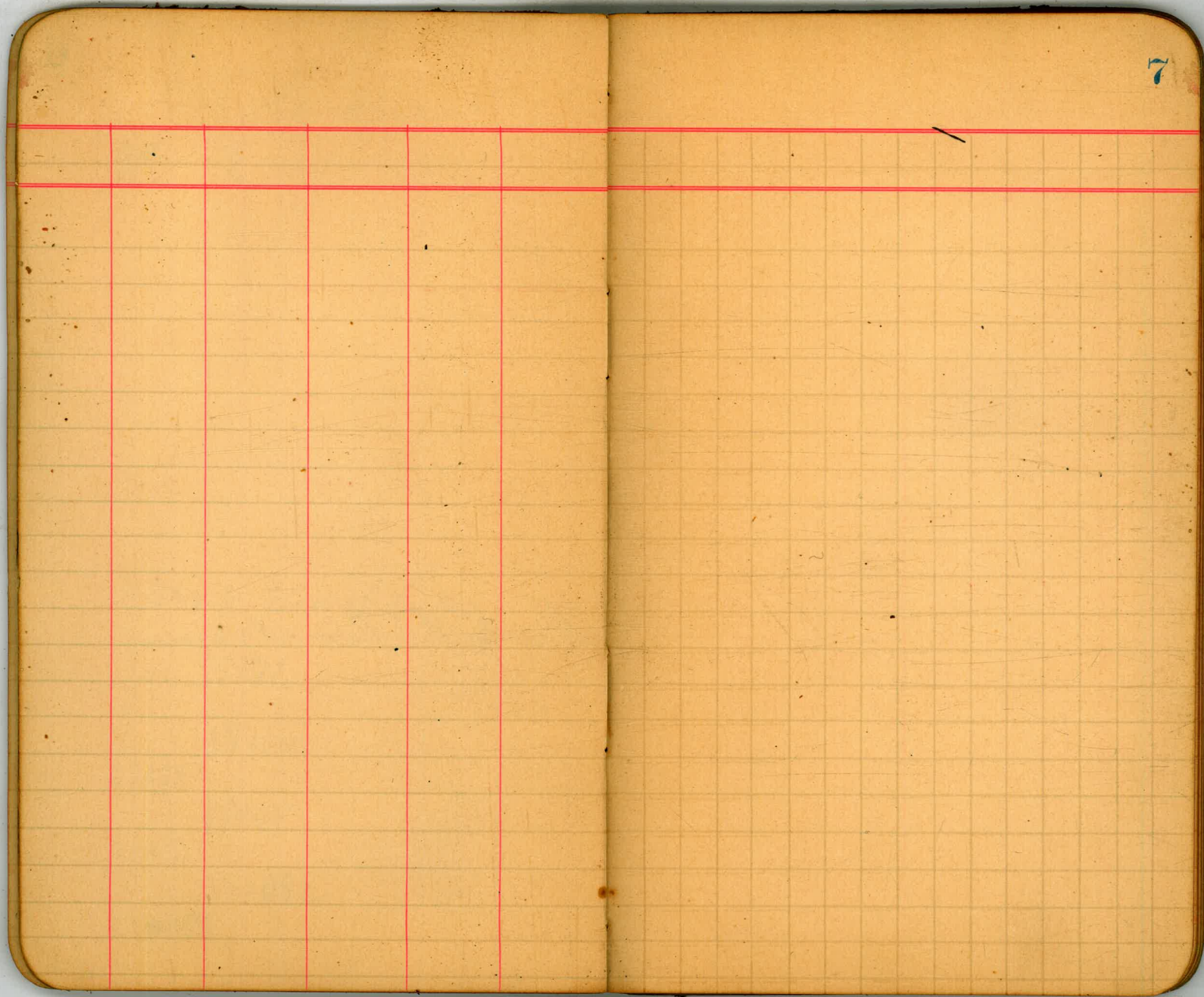
29+35-

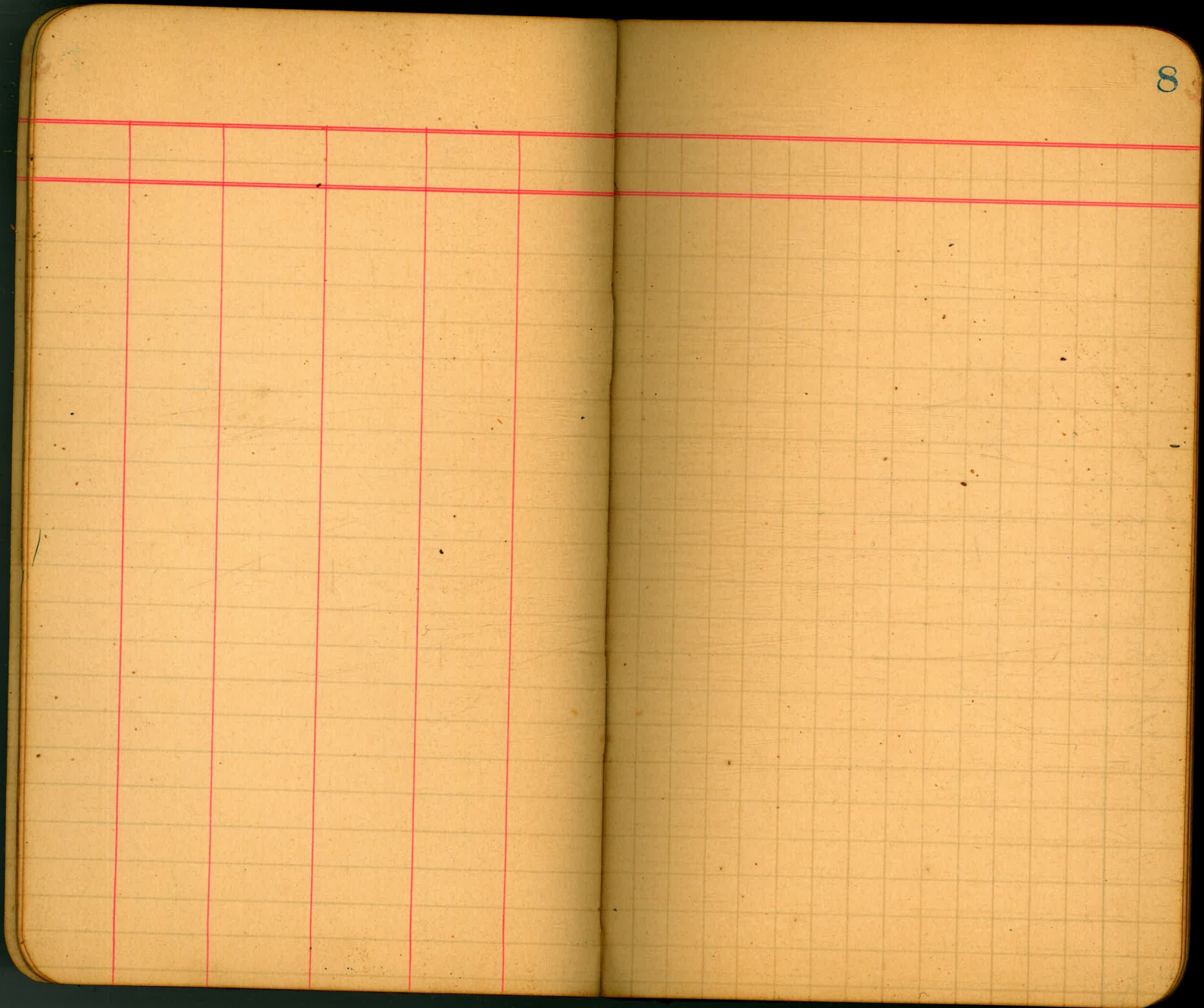
29+30

29+09 E

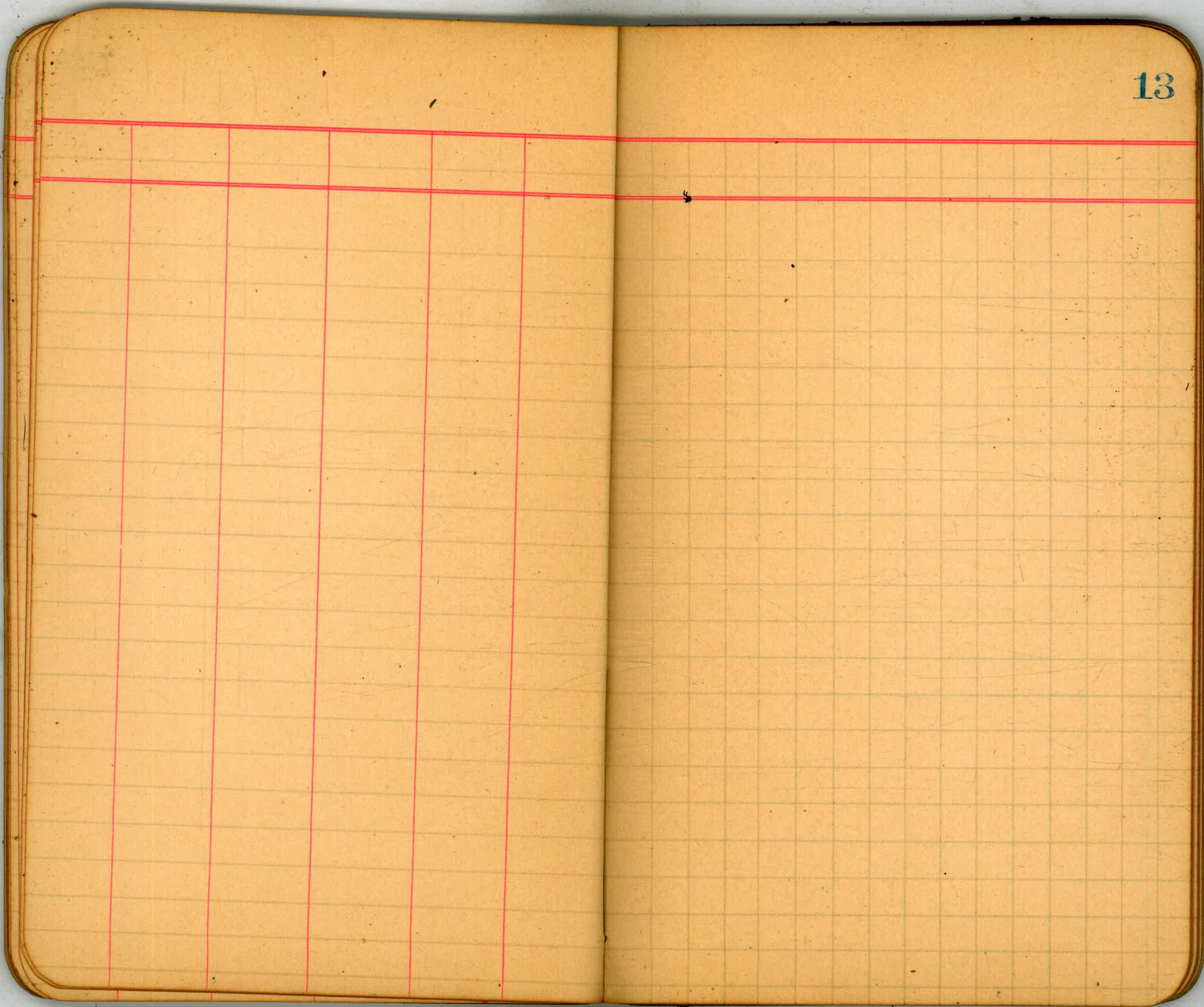
29+07 E

the ...



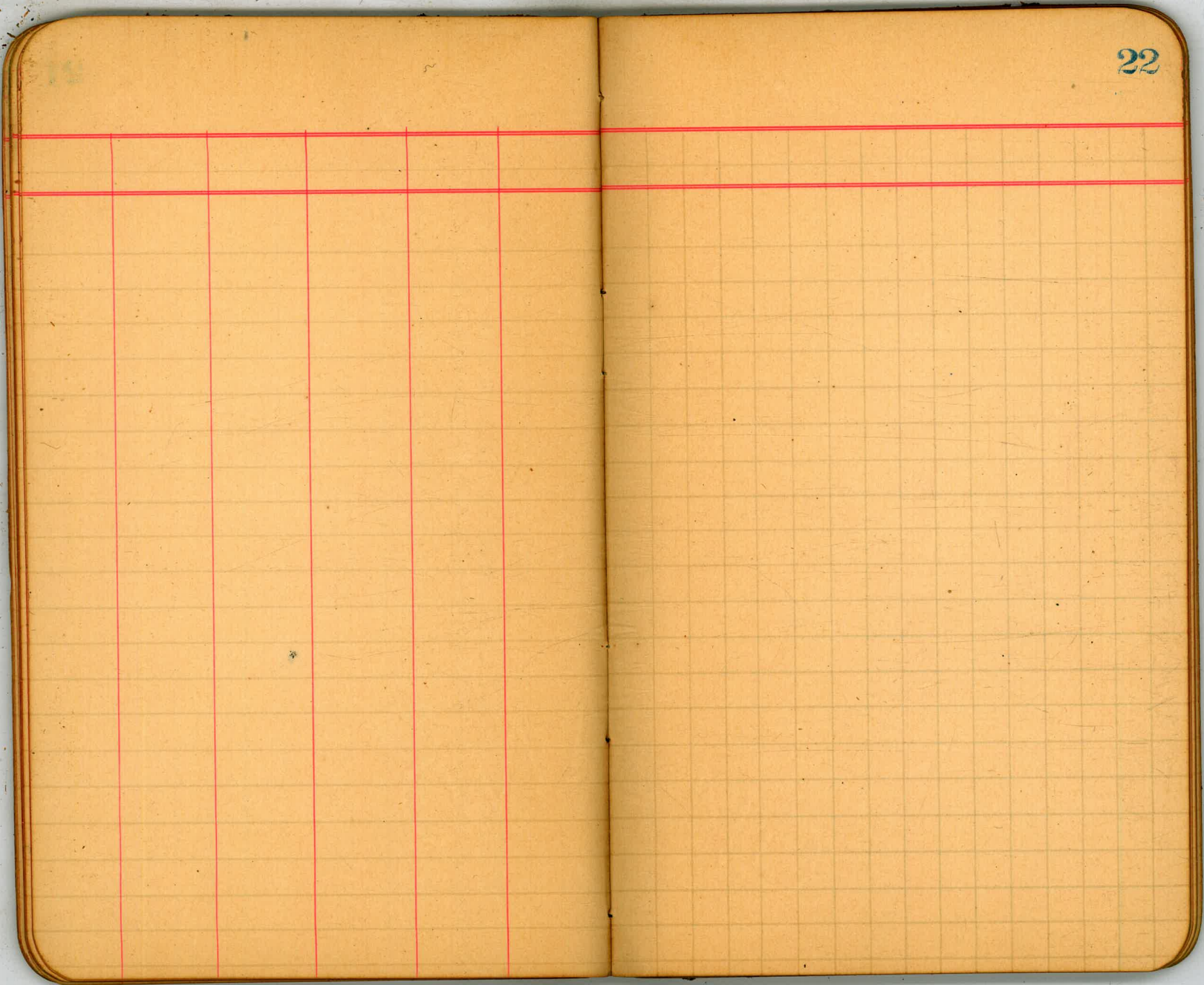


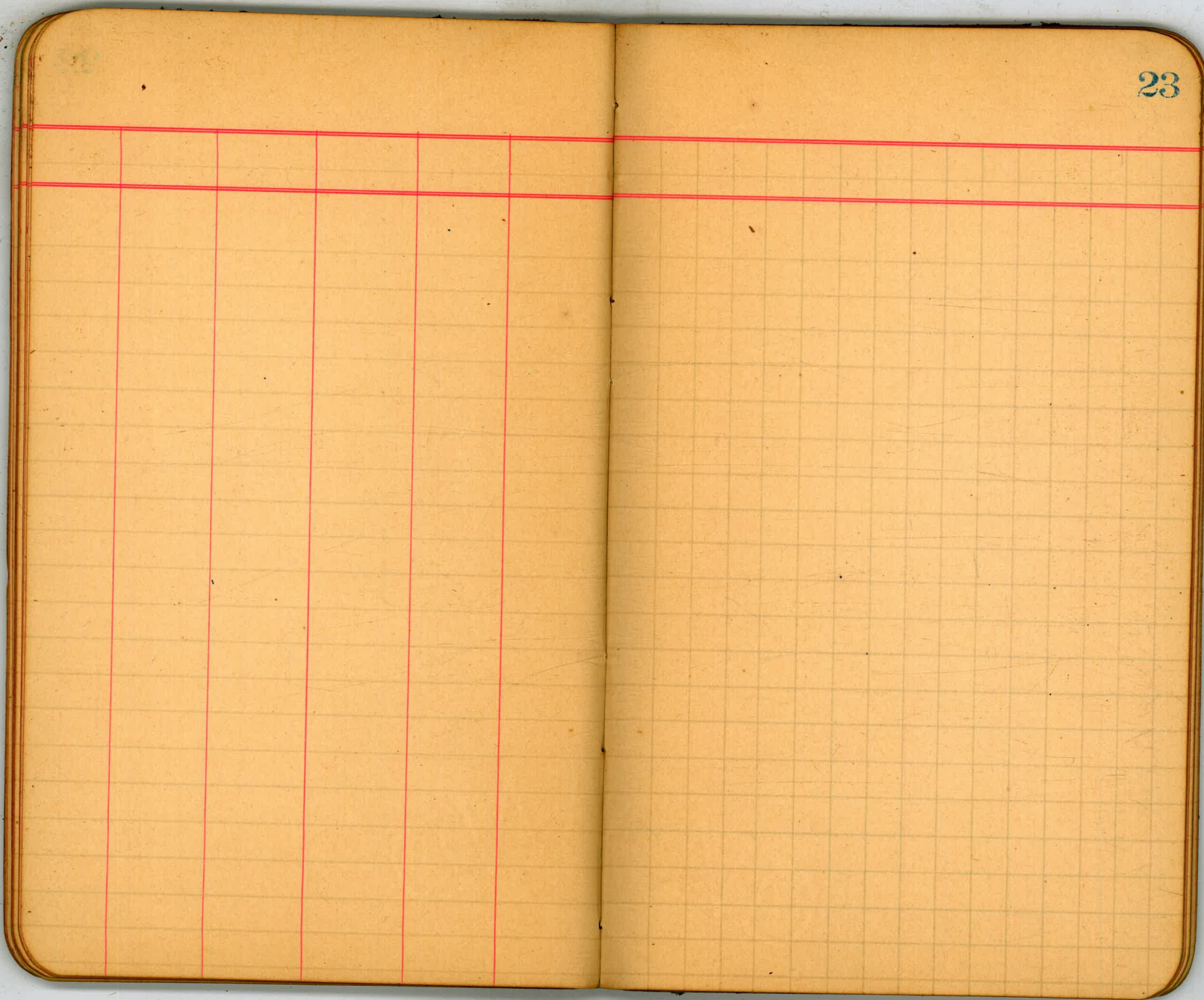
The image shows an open notebook with two pages. The left page is ruled with a grid of 6 columns and 15 rows. The right page is ruled with a grid of 15 columns and 15 rows. The number '10' is printed in the top right corner of the right page. The pages are yellowed and show signs of age.

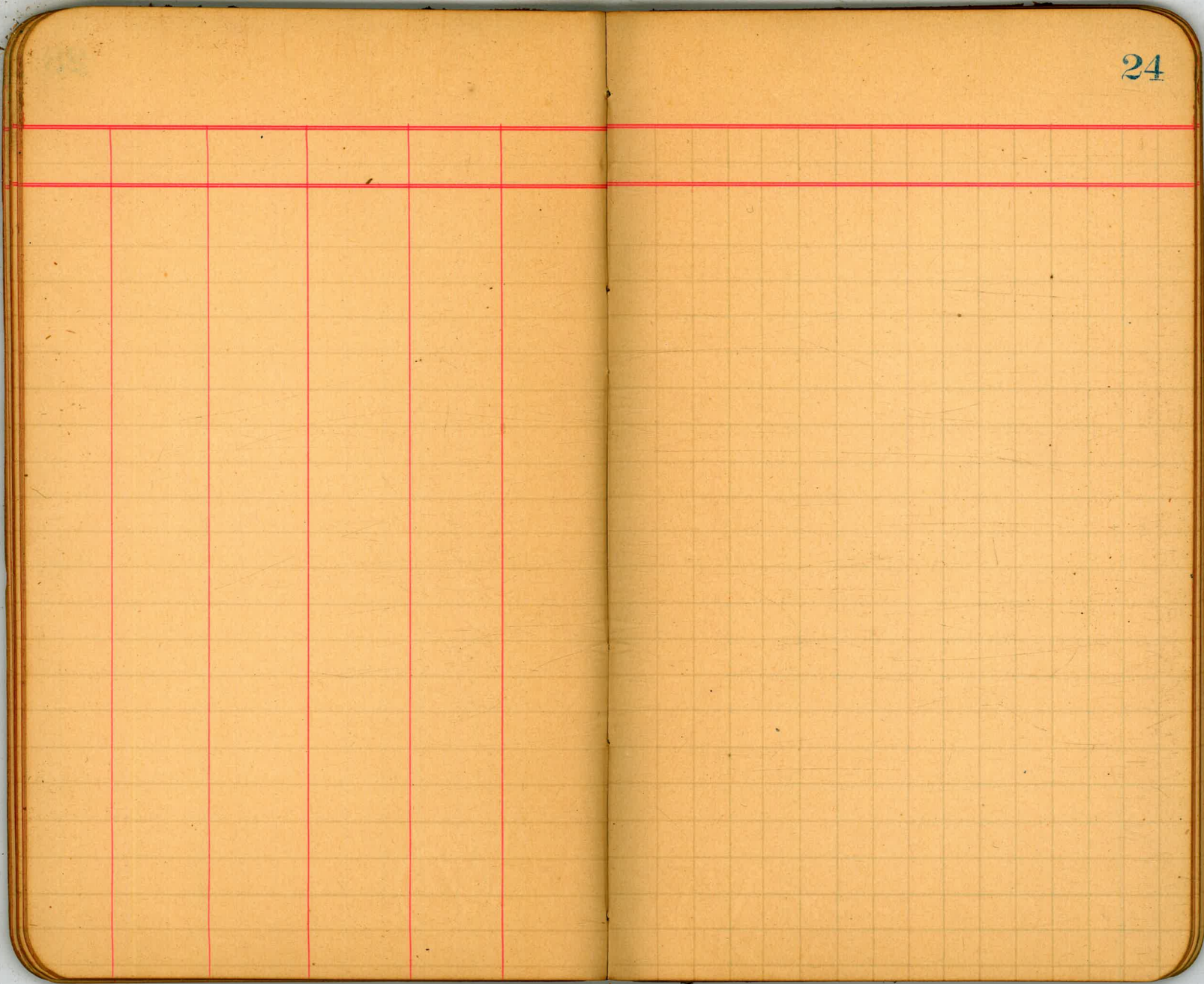


The image shows an open notebook with two pages. The pages are a light tan or yellowish color. The left page is ruled with a grid of light blue lines. There are five vertical red lines drawn across the page, creating six columns of varying widths. The right page is also ruled with a grid of light blue lines. In the top right corner of the right page, the number '17' is printed in a dark blue or black font. The notebook is placed on a light gray surface.

The image shows an open notebook with two pages. The left page is ruled with a table structure consisting of 6 columns and 18 rows, defined by red lines. The right page is ruled with a grid structure consisting of 18 columns and 18 rows, also defined by red lines. The pages are yellowed and show signs of age. The number '19' is printed in the top right corner of the right page.





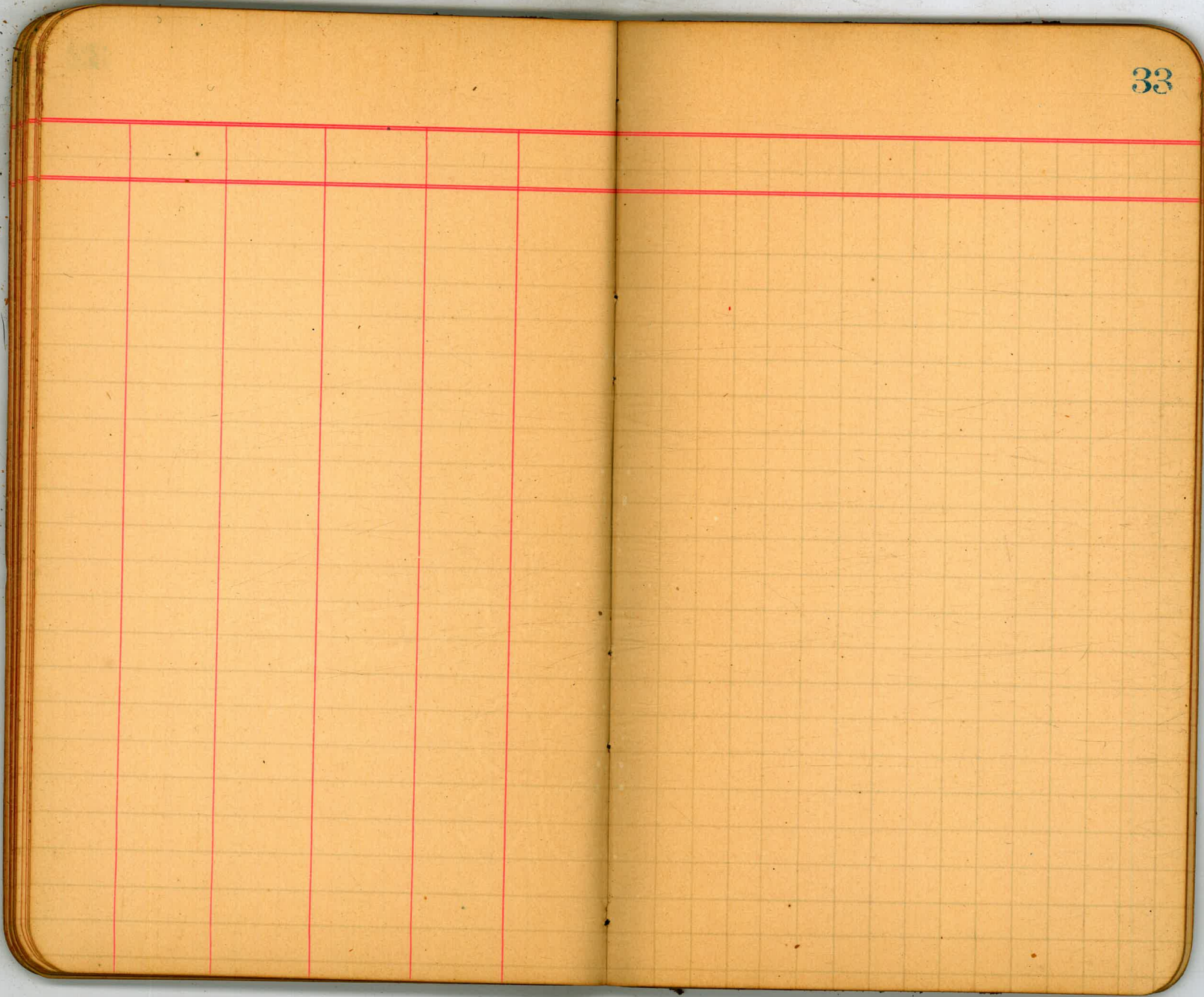


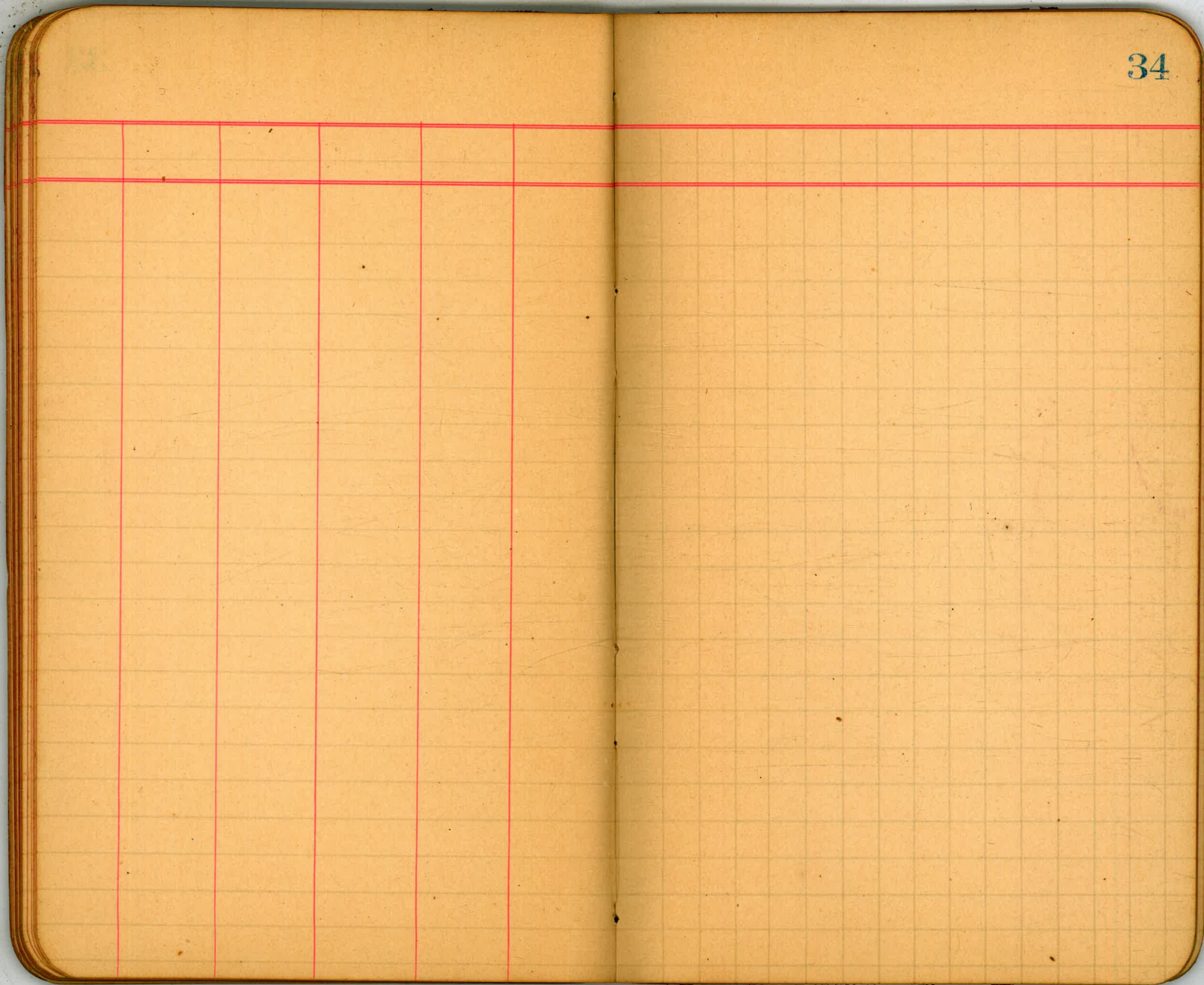
The image shows an open notebook with two pages. The left page is ruled with a grid of red lines, featuring a header section with 6 columns and 2 rows, and a main body with 6 columns and 20 rows. The right page is ruled with a plain grid of red lines and is numbered '25' in the top right corner. The notebook is bound in the center, and the pages are a light brown color.

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 header section at the top, followed by two horizontal lines, and then a grid of 10 columns and 20 rows. The right page is a grid page with a grid of red lines, approximately 15 columns and 20 rows. The number '26' is printed in the top right corner of the right page.

The image shows an open notebook with two pages. The pages are a light tan or yellowish color. The left page is ruled with a grid of light blue lines. There are five vertical red lines drawn across the page, creating six columns of varying widths. The right page is also ruled with a grid of light blue lines. In the top right corner of the right page, the number '31' is printed in a dark blue or black font. The notebook is placed on a light-colored, possibly white, surface.

The image shows an open notebook with two pages. The pages are a light tan or yellowish color. The left page is ruled with a grid of thin, light-colored lines. Overlaid on this grid are five vertical red lines, which divide the page into six columns of varying widths. The right page is also ruled with a grid of thin, light-colored lines. In the top right corner of the right page, the number '32' is printed in a dark blue or black font. The notebook is placed on a light-colored, possibly white, surface.





Sept 15th sheet

41

7+09 End of pipe on 15th -
8+92

8+90

Flush Tank

~~Street 15 1/2~~

W	E	W	E
	4+19		6+592
4+17		6+652	
			6+42
		6+40	
			6+17
	3+13	6+15	
3+11			5+92
	2+88	5+90	
2+86			5+68
	2+64	5+66	
2+62			5+43
	2+40	5+41	
2+38			5+18
west	2+13	5+14	
2+11			4+94
	1+87	4+92	
1+85			4+70
	1+61	4+68	
1+59			4+44
	1+33	4+42	
west	1+31		

3x34
 3x34
 3x34

1407 15 street
East 1405

0x77
0x52
East 0x50

15 Street with y in this
Page
We commenced now on

27+60 End of hike on Interstate

15th Street
27+58 going turned west back

East 27+45
27+47 last of on

East 27+19
27+21 West

43
running North from N.M.

Taken down the y

of flush Fork for continue

East West 16 West

44

		25+95			
East	26+93	"			
		25+90	"		
	25+58	"			
		25+45	"		
	25+40	"			
		25+21 1/2	"		
	26+19 1/2				
		25+96	West		
	25+94				
East		25+68 1/2	"		
"	25+66 1/2				
"		25+44 1/2	"		
"	25+42 1/2				
"		25+20	"		
"	25+18				
"		24+92	"		
East	24+90				
"		24+57	West - North line of N street		
East	24+55				

Insp
24+36

west side 16th street

23+89 South 4th

North 23+89 $\frac{1}{2}$

South
22+89 $\frac{1}{2}$

21+69 C + C by 15th street

Insp
21+40

South

20+90

North by

20+88

20+40

North by

South

20+38

19490 North

North 19488

North

19440

North

19438

18490 North

South

18488

18440 "

" 18438

"

17491 North

"

South 17489

14499 6^m by 148^m grid

Jan
16+90

16+142 by Souths 4+5

by Norths 15+65 4+8 Norths

15+85 by 4+8 Souths

Norths 14+18 6+8 3

Jan
14+00 by Norths 19+15

19+48 3 Souths 4+5

by Norths 4+5
12+99 2

12x49 South of 4+6

~~12x~~
12+0

11x70 Reducer 8 to 6"

11x77 6+8 for 12 4 8

10+6 1/2 South 4" of

North 10+20 1/2 4+8 of

9+69 South 4+8 of

North 8+5 1/2 8+8 for street

8+40 inspect out line of 10" street

7+8 1/2 300 ft

East N 81

7+99 1/2

8+99 1/2

5+99 1/2 West

4+10

4+59 1/2

West

2+08

94m 3

South

□
S. by 2+97 17ft from base of Building

74m

2+28

West

West

9th West

N Street

Water South

L+10

2+12

H+81

H+79

1+11

1+09

07 56 6 in of for 8th Street North

A 500

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

Degrees.	DEGREES.		¼ DEGREE.		½ DEGREE.		¾ DEGREE.		Degrees.
	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	
0			100.00	0.44	100.00	0.87	99.99	1.31	89
1	99.98	1.75	99.98	2.18	99.97	2.62	99.95	3.05	89
2	99.94	3.49	99.92	3.93	99.91	4.36	99.88	4.80	89
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	8.29	89
5	99.62	8.72	99.58	9.15	99.54	9.58	99.50	10.02	89
6	99.45	10.45	99.41	10.89	99.36	11.32	99.31	11.75	89
7	99.25	12.19	99.20	12.62	99.14	13.05	99.09	13.49	89
8	99.03	13.92	98.97	14.55	98.90	14.78	98.84	15.21	89
9	98.77	15.64	98.70	16.07	98.63	16.50	98.56	16.93	89
10	98.48	17.36	98.40	17.79	98.33	18.22	98.25	18.65	79
11	98.16	19.08	98.08	19.51	97.99	19.94	97.90	20.38	79
12	97.81	20.79	97.72	21.22	97.63	21.64	97.53	22.07	79
13	97.44	22.50	97.34	22.92	97.24	23.34	97.13	23.77	79
14	97.03	24.19	96.93	24.62	96.81	25.04	96.70	25.46	79
15	96.59	25.88	96.48	26.30	96.36	26.72	96.25	27.14	79
16	96.13	27.56	96.00	27.98	95.88	28.40	95.76	28.82	79
17	95.63	29.24	95.50	29.65	95.37	30.07	95.24	30.49	79
18	95.11	30.90	94.97	31.32	94.83	31.73	94.69	32.14	79
19	94.55	32.56	94.41	32.97	94.26	33.38	94.12	33.79	79
20	93.97	34.20	93.82	34.61	93.67	35.02	93.51	35.43	69
21	93.36	35.84	93.20	36.24	93.04	36.65	92.88	37.06	69
22	92.72	37.46	92.55	37.86	92.39	38.27	92.22	38.67	69
23	92.05	39.07	91.88	39.47	91.71	39.87	91.53	40.27	69
24	91.35	40.67	91.18	41.07	91.00	41.47	90.81	41.87	69
25	90.63	42.26	90.45	42.66	90.26	43.05	90.07	43.44	69
26	89.88	43.84	89.69	44.23	89.49	44.62	89.30	45.01	69
27	89.10	45.40	88.90	45.79	88.70	46.17	88.50	46.56	69
28	88.29	46.95	88.09	47.33	87.88	47.72	87.67	48.10	61
29	87.46	48.48	87.25	48.86	87.04	49.24	86.82	49.62	60
30	86.60	50.00	86.38	50.38	86.16	50.75	85.94	51.13	59
31	85.72	51.50	85.49	51.88	85.26	52.25	85.04	52.62	58
32	84.80	52.99	84.57	53.36	84.34	53.73	84.10	54.10	57
33	83.87	54.46	83.63	54.83	83.39	55.19	83.15	55.56	56
34	82.90	55.92	82.66	56.28	82.41	56.64	82.16	57.00	55
35	81.92	57.36	81.66	57.71	81.41	58.07	81.16	58.42	54
36	80.90	58.78	80.64	59.13	80.39	59.48	80.13	59.83	53
37	79.86	60.18	79.60	60.53	79.34	60.88	79.07	61.22	52
38	78.80	61.57	78.53	61.91	78.26	62.25	77.99	62.59	51
39	77.71	62.93	77.44	63.27	77.16	63.61	76.88	63.94	50
40	76.60	64.28	76.32	64.61	76.04	64.94	75.76	65.28	49
41	75.47	65.61	75.18	65.93	74.90	66.26	74.61	66.59	48
42	74.31	66.91	74.02	67.24	73.73	67.56	73.43	67.88	47
43	73.14	68.20	72.84	68.52	72.54	68.84	72.24	69.15	46
44	71.93	69.47	71.63	69.78	71.33	70.09	71.02	70.40	45
45	70.71	70.71							
Degrees.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Degrees.
Degrees.	DEGREES.		¼ DEGREE.		½ DEGREE.		¾ DEGREE.		Degrees.

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