

A St 28th to 32nd.

C " 30th to 32nd.

(120) " " " " " "

IBEX.

X Section Watkins Ave.

400

LEVEL

224

F. B. 224

224

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

MINUTES	LKS.	MINUTES	LKS.	MINUTES	LKS.
1	2 1/3	21	49	41	95 2/3
2	4 2/3	22	51 1/3	42	98
3	7	23	53 2/3	43	100 1/3
4	9 1/3	24	56	44	102 2/3
5	11 2/3	25	58 1/3	45	105
6	14	26	60 2/3	46	107 1/3
7	16 1/3	27	63	47	109 2/3
8	18 2/3	28	65 1/3	48	112
9	21	29	67 2/3	49	114 1/3
10	23 1/3	30	70	50	116 2/3
11	25 2/3	31	72 1/3	51	119
12	28	32	74 2/3	52	121 1/3
13	30 1/3	33	77	53	123 2/3
14	32 2/3	34	79 1/3	54	126
15	35	35	81 2/3	55	128 1/3
16	37 1/3	36	84	56	130 2/3
17	39 2/3	37	86 1/3	57	133
18	42	38	88 2/3	58	135 1/3
19	44 1/3	39	91	59	137 2/3
20	46 2/3	40	93 1/3	60	140

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 City Hall, San Diego, 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.

MICROFILMED

Angle	COR. IN LINKS	Angle	COR. IN LINKS	Angle	COR. IN LINKS
0		0		0	
4	0.24	11	1.88	18	5.14
5	0.38	12	2.24	19	5.76
6	0.55	13	2.63	20	6.42
7	0.76	14	3.06	21	7.11
8	0.98	15	3.53	22	7.85
9	1.24	16	4.02	23	8.64
10	1.55	17	4.53	24	9.47
				25	10.54
				26	11.26
				27	12.24
				28	13.37
				29	14.34
				30	15.47
				35	22.07

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 City Hall, San Diego, Cal.

232.66  
 100  
 + 132.66

Cross Sections of  
 Watkins Ave  
 Park to Dale - Daspard to Story.

Tabl

MIN

1.  
2.  
3.  
4.  
5.  
6.  
7.  
8.  
9.  
10.  
11.  
12.  
13.  
14.  
15.  
16.  
17.  
18.  
19.  
20.

In

A

208.16 A-28<sup>th</sup> SE Cor. N. Noyah Road  
232.66 A<sup>st</sup> 570' E of 30<sup>th</sup> Spk. Fence Cor.  
187.06 C<sup>st</sup>-30<sup>th</sup> NE Spk. Phone Pole

Cross-sections  
A Street

UL 1

722 212.40

205.18 (SUR CO)  
212.4

E line 28<sup>th</sup>

N 3.4 209.0

3.6 208.8

3.5 208.9

C 3.8 208.6

4.0 208.4

4.3 208.1

S 4.8 207.6

25' E of 28<sup>th</sup>

S 4.9 208.0

3.8 208.6

3.4 209.0

C 3.2 209.2

3.0 209.4

2.9 209.5

N 2.7 209.7

212.4

50' E of 28<sup>th</sup>

N	2.4	210.0
	2.6	209.8
	2.7	209.7
C	3.2	209.2
	3.5	208.9
	3.8	208.6
S	4.2	208.2

75' E of 28<sup>th</sup>

S	4.7	207.7
	4.3	208.1
	4.1	208.3
C	3.6	208.8
	3.3	209.1
	3.2	209.2
N	2.8	209.6

100' E

N	3.3	209.1
	3.9	208.5
	4.0	208.4
C	4.3	208.1
	4.4	208.0
	4.6	207.8
S	4.8	207.6

125' E

S	5.2	207.2
	5.0	207.4
	4.7	207.7
C	4.4	208.0
	3.7	208.7
	4.0	208.4
N	3.7	208.7

212.4

150' E of 28<sup>th</sup>

N	3.4	207.0
	4.0	208.4
	4.3	208.1
L	4.6	207.8
	4.8	207.6
	5.1	207.3
S	6.3	207.1

174' E of 28<sup>th</sup> - W line Bear

S	5.2	207.2
	4.9	207.5
	4.8	207.6
C	4.6	207.8
	4.3	208.1
	4.2	208.2
N	5.2	207.2

3

N Ch. Bear

N	5.7	206.7
	4.5	207.9
	4.6	207.8
L	4.7	207.7
	5.0	207.4
	5.1	207.3
S	5.3	207.1

W 1/4 Bear

S	5.4	207.0
	5.9	207.0
	5.1	207.3
C	4.9	207.5
	4.7	207.7
	5.0	207.4
N	6.1	206.3

212.4

## Or. Bean

N	5.9	206.5
	5.6	207.3
	5.0	207.4
C	5.1	207.3
	5.2	207.2
	5.7	206.7
S	5.7	206.7

## E 1/4 Bean

S	5.8	206.6
	5.7	206.7
	5.9	207.0
C	5.9	207.0
	5.1	207.3
	5.3	207.1
N	5.8	206.6

4

## E Cb. Bean

N	5.8	206.6
	5.3	207.1
	5.3	207.1
	5.5	206.9
	5.6	206.8
	5.8	206.6
S	6.1	206.3

## E Line Bean

S	6.9	206.0
	6.1	206.3
	5.8	206.6
C	5.7	206.7
	5.9	207.0
	5.6	206.8
N	5.7	206.7

212.4

25' E of Bean

N	5.4	207.0
	5.7	206.7
	5.9	206.5
L	6.2	206.2
	6.3	206.1
	6.6	205.8
S	6.8	205.6

50' E of Bean

S	7.5	204.9
	7.2	205.2
	7.0	205.4
L	6.7	205.7
	6.7	205.7
	6.5	205.9
N	6.5 <sup>e</sup>	205.9

5

75' E of Bean

N	8.3	204.1
	8.2	204.2
	8.1	204.3
L	8.2	204.2
	8.4	204.0
	8.6	203.8
S	8.8	203.6

100' E of Bean

S	10.6	201.8
	10.4	202.0
	10.3	202.1
L	10.3	202.1
	10.8	201.6
	10.6	201.8
N	10.6	201.8



T.P. 0.19 20070 11.89 200.51

125' E of Bean

N 2.6 198.1

2.3 198.4

2.8 197.9

U 2.3 198.4

2.0 198.7

2.0 198.7

S 2.1 198.3

150' E

S 8.7 192.0 ✓

8.4 192.3

8.6 192.1

U 9.0 191.7

8.1 192.6

8.4 192.3

N 7.6 192.1

T.P. 0.30 189.26 11.74 188.96

175' E of Bean

N 10.6 178.7

10.3 179.0

10.0 179.3

9.1 180.2

7.3 182.0

5.6 183.7

S 6.4 182.9

300' E of Bean

T.P. 7.78 185.07 12.97 176.29

S 10.3 174.8

11.4 173.7

12.6 172.5

U 13.2 171.9

13.9 172.2

12.5 172.6

N 12.6 172.5

185.07

225' E of Bean

N		4.8	180.3
		6.4	178.7
		7.8	177.3
U		9.7	175.4
		11.5	173.6
		12.6	172.5
S		14.0	171.1

250' E of Bean

S		9.5	175.6
cb		8.4	176.7
1/4		6.2	179.9
a		2.4	182.7
TR	12.22	192.19	5.10
1/4		8.0	184.2
cb.		6.6	185.6
N		6.0	186.2

7.

275' E of Bean

S		10.1	182.1
cb		7.1	185.1
1/4		6.1	186.1
C		5.5	186.7
1/2		4.0	188.2

306' E of Bean = W. line 29<sup>th</sup>

cr.		1.7	190.5
1/2		3.7	188.5
cb.		5.8	186.4
S.		10.6	181.6

W. cb. 29<sup>th</sup>

S		10.3	181.9
cb		5.6	186.6
1/4		2.1	190.1
C		6.0	192.2

T.P. 13.09 204.74 0.54 191.65

275' E of Bean

N 13.0 191.7

cb. 14.4 190.3

White 29<sup>th</sup>

N 6.4 198.3

cb. 8.2 196.5

1/4 10.9 193.8

W cb. 29<sup>th</sup>

1/4 9.5 195.2

cb. 6.7 198.0

N 5.1 199.6

W 1/4 29<sup>th</sup>

N 3.9 200.6

cb. 5.2 199.5

1/4 7.6 197.1

c 10.9 193.8

1/2 13.6 191.1

Cr. 29<sup>th</sup> St.

5/4 12.2 192.5

cr. 9.8 194.9

1/2 6.7 198.0

cb. 4.5 200.2

N 3.1 201.6

E 1/4 29<sup>th</sup> St

N 2.8 201.9

cb. 4.3 200.4

1/2 6.2 198.5

c 8.9 195.8

1/4 11.6 193.1

E cb. 29<sup>th</sup> St

5/4 11.1 193.6

c 9.3 195.4

204.74

1/4 6.4 198.3

cb. 3.9 200.8

N 2.4 202.3

E line 29<sup>th</sup> Mt.

r 2.5 202.2

cb. 4.2 200.5

1/4 6.4 198.7

c 9.0 195.7

1/4 11.5 193.2

T.P. 341 197.18 10.97 193.77

W 1/4 29<sup>th</sup> Mt.

3/4 7.0 190.2

cb. 9.8 187.4

S 14.6 182.6

Cr 29<sup>th</sup> Mt.

S 14.1 183.1

{Spk = Cor of  
fence about 100  
W of 29<sup>th</sup> Mt}

75.6  
159.62  
159.64

187.1  
T#6 9

d. 8.6 188.6

E 1/4 29<sup>th</sup> Mt. 1

cb. 8.1 189.1

S 12.1 185.1

E cb. 29<sup>th</sup> Mt.

S 11.0 186.2

cb. 7.4 189.8

E line 29<sup>th</sup>

d. 8.0 189.2

S 11.7 185.5

25'E of 29<sup>th</sup>

S 15.7 181.5

S 15.7 181.5

cb. 9.5 187.7

1/2 4.6 192.6

c 1.4 195.8

197.18

50' E of 29<sup>th</sup>

c	3.1	194.1
1/4	8.1	189.1
ch	13.9	183.3
7'	15.2	182.0
S	15.3	181.9

75' E of 29<sup>th</sup>

S	12.3	184.9
6'	14.6	182.6
ch	11.4	185.8
1/4	6.5	190.7
C	2.8	194.4

100' E of 29<sup>th</sup>

C	2.0	194.2
1/4	8.9	188.3
7	13.1	184.1

ch	12.2	185.0
S	8.6	188.6

125' E of 29<sup>th</sup>

S	3.8	193.4
ch	7.8	189.4
1/4	11.3	185.9
C	5.7	191.5

150' E of 29<sup>th</sup>

C	5.5	191.7
7'	10.4	186.8
1/4	9.1	188.1
ch	4.3	192.9
S	0.0	197.2
TP	8.77	204.84
	11.1	196.07

25' E of 29<sup>th</sup>

N	1.7	203.0
ch	5.0	199.8

204.80

1/4 6.7 198.1

50' E of 29<sup>th</sup>

N 2.8 202.0

cb 5.3 199.5

1/4 7.1 197.7

75' E of 29<sup>th</sup>

1/4 6.9 197.9

cb 4.8 200.0

N 3.5 201.3

100' E of 29<sup>th</sup>

N 3.0 201.8

cb 4.3 200.5

1/4 6.1 198.7

125' E of 29<sup>th</sup>

1/4 7.2 197.6

cb 3.5 201.3

N 2.1 202.7

11

150' E of 29<sup>th</sup>

N 1.2 203.6

cb 3.0 201.8

1/4 6.3 198.5

175' E of 29<sup>th</sup>

N 0.3 204.5

cb 3.7 201.1

1/4 9.7 195.1

C 17.3 187.5

1/4 10.4 194.4

cb 6.9 197.9

S 2.7 202.1

200' E of 29<sup>th</sup>

Scl. 1.4 203.4

1/4 5.7 199.7

C 10.0 194.8

2048

1/4	13.5	191.3
5'	15.2	189.6
cb.	9.7	195.1

N

225' E of 29<sup>th</sup>

N	7.1	197.7
10'	13.0	191.8
cb	10.7	194.1
1/2	6.1	198.7
c	0.7	204.1

250' E of 29<sup>th</sup>

1/4	1.3	203.5
cb	5.3	199.5
10'	8.8	196.0
12'	11.0	193.8
N	9.9	195.4

275' E of 29<sup>th</sup>

N	3.1	201.7
T.P.	12.89	216.69
	1.04	203.80

300' E of 29<sup>th</sup>

N	15.0	201.7
S	10.4	206.3

325' E of 29<sup>th</sup>

S	7.6	209.1
cb	5.7	208.0
1/2	10.3	206.4

250' E of 29<sup>th</sup>

S	4.1	212.6
cb	5.2	211.5
1/2	6.0	210.7
c	8.1	208.6

 Break  
 on E  
 of Rain

3/16 Hatch  
Hawkins  
1/16 Moore

216.69

275' E of 29<sup>th</sup>

S		1.2	215.5
cb		1.5	215.2
1/4		1.9	214.8
c	/	3.3	213.4
1/4		7.1	209.6
cb		11.2	205.5

300' E of 29<sup>th</sup>

N.		8.7	209.0
T.P.	9.84	225.78	215.94
cb		13.3	212.5
1/4		11.3	214.5
c		9.5	216.3
1/4		8.7	217.1
cb		5.3	217.5
S		8.2	217.6

225.78

325' E of 29<sup>th</sup>

N.		13.6	212.2
cb		11.2	213.6
1/4		9.7	215.1
c		8.4	207.4
1/4		7.6	218.2
cb		7.1	218.7
S		6.8	219.0

350' E of 29<sup>th</sup>

S		5.8	220.0
cb		6.4	219.4
1/4		6.7	219.1
c		7.2	218.6
1/4		8.0	217.8
cb		5.8	217.0
N.		9.5	216.3



22578

375' E of 29<sup>th</sup>

N	7.0	218.8
cb	6.7	219.1
1/4	6.3	219.5
0	5.8	220.0
1/4	5.9	220.4
cb	5.2	220.6
S	4.7	221.1
c		
S	4.0	221.8
cb	4.3	221.5
1/4	4.5	221.3
c	4.7	221.1
1/4	4.9	220.9
cb	5.4	220.4
N	5.7	220.1

395' E of 29<sup>th</sup> = W Line 30<sup>th</sup>  
in South Park produced.

270' E of 30<sup>th</sup> A  
107m  
0.15  
232.65  
232.66

22578

T.P.	8.48	232.80	1.46	224.32
E. Line 30 <sup>th</sup>				St. in E.W. Moore add.
S			6.2	226.6
cb			6.1	226.7
1/4			5.7	227.1
c			5.9	227.4
1/4			4.8	228.0
cb			5.0	227.8
N			4.7	228.1
				35' E of 30 <sup>th</sup>
N			4.0	228.2
cb			5.0	227.8
1/4			5.1	227.7
c			5.5	227.3
1/4			5.6	227.2
cb			5.6	227.2
S			5.6	227.2

232.80

50' E of 30<sup>th</sup>

S	5.9	226.9
cb	5.7	227.1
1/4	5.4	227.4
c	5.4	227.4
1/4	5.3	227.5
cb	5.0	227.8
N	4.7	228.1
75' E of 30 <sup>th</sup>		
N	4.6	228.2
cb	4.6	228.2
1/4	4.6	228.2
c	4.7	228.1
1/4	4.8	228.0
cb	5.0	227.8
S	5.4	227.4

232.80

100' E of 30<sup>th</sup>

S	5.1	227.7
cb	5.0	227.8
1/4	4.9	227.9
c	4.7	228.1
1/4	4.7	228.1
cb	4.6	228.2
N	4.4	228.4
125' E of 30 <sup>th</sup>		
N	3.7	229.1
cb	3.8	229.0
1/4	4.1	228.7
c	4.3	228.5
1/4	4.3	228.5
cb	4.5	228.3
S	4.7	228.1

232.80

150' E of 30<sup>th</sup>

S	4.6	228.2
cb.	4.2	228.6
1/4	4.0	228.8
c	3.9	228.9
1/4	3.7	229.1
cb.	3.4	229.4
N	3.9	229.4

175' E of 30<sup>th</sup>

N	3.5	229.3
cb.	3.6	229.2
1/4	3.8	229.0
c	3.9	228.9
1/4	4.1	228.7
cb.	4.3	228.5
S	4.5	228.3

232.80

200' E of 30<sup>th</sup>

S	4.6	228.2
cb.	4.5	228.3
1/4	4.1	228.7
c	3.9	228.9
1/4	3.8	229.0
cb.	3.5	229.3
N	3.4	229.4

225' E of 30<sup>th</sup>

N	3.6	229.2
cb.	3.7	229.1
1/4	3.9	228.9
c	4.1	228.7
1/4	4.3	228.5
cb.	4.6	228.2
S	4.8	228.0

23280

250' E of 30<sup>th</sup>

S	5.1	227.7
cb	4.8	228.0
1/4	4.4	228.4
0	4.1	228.7
1/4	4.2	228.6
cb	3.9	228.9
N	3.6	229.2

275' E of 30<sup>th</sup>

N	4.9	227.9
cb	5.1	227.7
1/4	5.2	227.6
0	5.4	227.4
1/4	5.4	227.4
cb	5.5	227.3
S	5.7	227.1

23280

300' E of 30<sup>th</sup>

S	8.7	224.1
	8.2	224.6
	8.1	224.7
0	8.1	224.7
	8.2	224.6
	8.2	224.6
N	8.2	224.6

325' E of 30<sup>th</sup>

N	11.3	221.5
	11.4	221.4
	11.7	221.1
0	12.0	220.8
	12.1	220.7
	12.4	220.4
S	12.5	220.3

23270  
 TP. 263 22321 1222 220.58<sup>4</sup>

350' E of 30<sup>th</sup>

S	6.7	216.5
cb	6.5	216.7
1/4	5.8	216.4
c	5.6	216.6
1/4	5.4	216.8
cb	5.3	216.9
N	5.5	216.7

375' E of 30<sup>th</sup>

N	10.5	212.7
cb	10.0	213.2
1/4	10.5	212.7
c	11.0	212.2
1/4	11.5	211.7
d	11.5	211.7
s	11.5	211.9

22321

385' E of 30<sup>th</sup>

S	18.2	205.0
cb	17.3	205.9
1/4	14.0	209.2
c	13.9	209.3
1/4	13.3	209.9
cb	12.4	210.8
N	11.4	211.8

400' E of 30<sup>th</sup>

N	8.7	214.5
cb	9.8	213.4
1/4	10.5	212.7
c	11.5	211.7
1/4	12.6	210.6
cb	13.0	210.2
S	13.3	209.9

223.21

425' E of 30<sup>th</sup> St

S	11.4	211.8
cb.	10.4	212.8
1/4	9.3	213.7
c	8.5	214.7
1/4	7.7	215.5
cb.	7.0	216.2
N	6.3	216.9

450' E of 30<sup>th</sup> St.

N	4.5	218.7
cb.	5.0	218.2
1/4	5.5	217.7
c	6.4	216.8
1/4	7.2	216.0
cb.	7.9	215.3
S	8.9	214.3

223.21

475' E of 30<sup>th</sup>

S	7.4	215.8
cb.	6.4	216.8
1/4	5.5	217.7
c	4.7	218.5
1/4	4.1	219.1
cb.	3.5	219.7
N	3.0	220.2

500' E of 30<sup>th</sup>

N	1.9	221.3
cb.	2.3	220.9
1/4	2.8	220.4
c	3.3	219.9
1/4	4.4	218.8
cb.	5.5	217.7
S	6.9	216.3

223.21

525' E of 30<sup>th</sup>

S	6.0	217.2
sb.	4.6	218.6
1/4	3.7	219.5
c	3.0	220.2
1/4	2.4	219.8
sb.	1.9	221.3
N	1.2	222.0

550' E of 30<sup>th</sup>

N	4.6	222.6
sb.	1.2	222.0
1/4	1.8	221.4
c	2.9	220.3
1/4	4.0	219.2
sb.	4.3	218.9
S	4.4	218.8

223.21

T.P. 1279 23324 276 220.75

575' E of 30<sup>th</sup>

S	11.5	221.7
	11.7	221.5
	11.2	222.0
C	11.2	222.0
	11.0	222.2
	10.5	222.7
N	9.8	223.4

601' E of 30<sup>th</sup> W line 31<sup>st</sup>

N	9.4	223.8
	9.5	223.7
	9.6	223.6
C	9.5	223.7
	9.6	223.6
	9.6	223.6
	9.8	223.4

233.24  
 W 1/4 31<sup>st</sup>

S	9.4	223.8
	9.2	224.0
	9.0	224.2
	9.0	224.2
	8.9	224.3
	8.8	224.4
	8.6	224.6

W 1/4 31<sup>st</sup>

N	8.2	225.0
	8.5	224.7
	8.5	224.7
	8.6	224.6
	8.7	224.5
	8.8	224.4
	9.1	224.1

233.24  
 Cr. 31<sup>st</sup>

S	8.7	224.5
	8.3	224.9
	8.1	225.1
	8.1	225.1
	7.9	225.3
	7.9	225.3
	7.9	225.3

E 1/4 31<sup>st</sup>

N	7.7	225.5
	7.6	225.6
	7.7	225.5
	7.8	225.4
	7.8	225.4
	7.9	225.3
	8.2	225.0



233.24

E of 31<sup>st</sup>

S	8.2	225.0
	7.8	225.4
	7.7	225.5
	7.4	225.8
	7.2	226.0
	7.2	226.0
	7.2	226.0

E Line 31<sup>st</sup>

N	6.9	226.3
	7.0	226.2
	7.2	226.0
C	7.4	225.8
	7.7	225.5
	7.8	225.4
	8.1	225.1

233.24

25' E of 31<sup>st</sup>

S	7.7	225.5
	7.3	225.9
	7.1	226.1
C	6.9	226.3
	6.7	226.5
	6.4	226.8
	6.1	227.1

50' E of 31<sup>st</sup>

N	5.7	227.5
	6.0	227.2
	6.3	226.9
C	6.7	226.5
	6.8	226.4
	6.9	226.3
	7.2	226.0

233.24

75' E of 31st

S	7.0	226.2
	6.5	226.7
	6.4	226.8
C	6.3	226.9
	5.9	227.5
	5.7	227.5
	5.1	228.1

100' E of 31st

N	4.6	228.6
	5.3	227.9
	5.7	227.5
C	6.2	227.0
	6.4	226.8
	6.8	226.4
	7.0	226.2

233.24

125' E of 31st

S	6.7	226.5
	6.3	226.9
	6.0	227.2
C	5.1	228.1
	4.7	228.5
	4.6	228.6
	4.1	229.1

150' E of 31st

N	4.0	229.2
	4.4	228.8
	5.1	228.1
C	5.4	227.8
	5.9	227.3
	5.9	227.3
	5.9	227.3

28321

175' E of 31<sup>st</sup>

S	5.5	227.7
	5.1	228.1
	5.1	228.1
	4.7	228.5
	4.4	228.8
	4.3	228.9
	3.9	229.3

200' E of 31<sup>st</sup>

N	3.4	229.8
	4.0	229.2
	4.3	228.9
	4.5	228.7
	4.8	228.4
	5.1	228.1
	5.3	227.9

28324

225' E of 31<sup>st</sup>

S	5.0	228.2
	5.2	228.0
	4.6	228.6
	4.0	229.2
	3.9	229.3
	3.7	229.5
	3.3	229.9

250' E of 31<sup>st</sup>

N	3.2	230.0
	3.2	230.0
	3.9	229.3
	4.2	229.0
	4.7	228.5
	4.9	228.3
	5.0	228.2

23324  
275 E of 31<sup>st</sup>  
S  
5.1 228.1  
4.6 228.6  
4.2 229.0  
3.4 229.8  
2.8 230.4  
3.2 230.0  
2.7 230.5

300 E of 31<sup>st</sup>  
N  
2.5 230.7  
2.8 230.4  
3.1 230.1  
3.6 229.6  
4.1 229.1  
4.5 228.7  
5.1 228.1

23324  
325 E of 31<sup>st</sup>  
S  
5.5 227.7  
4.1 229.1  
3.8 229.4  
3.8 229.4  
3.3 229.9  
2.9 230.3  
2.7 230.5

350 E of 31<sup>st</sup>  
N  
3.8 229.4  
3.8 229.4  
4.1 229.1  
4.3 228.9  
4.6 228.6  
4.8 228.4  
5.1 228.1

233.24

375' E of 31st

S	6.3	226.9
	5.9	227.3
	5.7	227.5
	5.5	227.7
	5.3	227.9
	5.1	228.1
	4.9	228.3

400' E of 31st

N	6.6	226.6
	6.5	226.7
	6.6	226.6
	6.8	226.4
	7.0	226.2
	7.1	226.1
	7.3	225.9

233.24

421' E of 31st

S	8.8	224.4
	8.5	224.7
	8.2	225.0
	7.8	225.4
	7.7	225.5
	7.5	225.7
	7.2	226.0

425' E of 31st

N	10.2	223.0
	10.2	223.0
	10.2	223.0
	10.2	223.0
	10.2	223.0
	10.1	223.1
	10.1	223.1

08

233.24

T.P. 6.15 220.85 / 2.57 220.70

450' E of 31<sup>st</sup>

S	2.3	218.6
	2.3	218.6
	2.5	218.4
	2.4	218.5
	2.6	218.3
	2.8	218.1
	2.9	218.0

475' E of 31<sup>st</sup>

N	9.9	211.0
	9.4	211.5
	9.4	211.5
	9.4	211.5
	9.3	211.6
	8.6	212.3
	8.6	212.3

220.85

27

T.P. 5.05 208.16 / 2.74 208.11

500' E of 31<sup>st</sup>

S	1.2	207.0
	1.8	206.4
	2.4	205.8
	3.4	204.8
	4.0	204.2
	4.3	203.9
	4.6	203.6

525' E of 31<sup>st</sup>

N	11.3	196.9
	10.5	197.7
	10.4	197.8
	10.6	197.6
	9.9	198.3
	9.6	198.6
	9.3	198.9

T.P. 5.02 195.08 191.0 195.06

550' E of 31st

S	4.0	191.1
	4.3	190.8
	3.9	191.2
	3.8	191.3
	4.0	191.1
	4.2	190.9
	6.5	188.6

575' E of 31st

S	4.3	183.8
cb.	10.2	184.9
1/4	10.4	184.7
c	12.0	183.1
1/4	13.4	181.7

T.P. 1.44 184.32 12.20 182.88 ✓  
 cb. 4.0 180.3

N. 6.7 177.6

602' E of 31st = W line 32nd

S	9.23	175.09 B.M.
cb.	8.5	175.9
1/4	9.3	175.0
c	10.7	173.6
1/4	12.1	172.2
cb.	13.5	170.8
N.	16.1	168.2

POSTED

OS C Street  
30<sup>th</sup> - 32<sup>d</sup>

2/16/56 Habel  
Harkins  
Moon

Bm 1283 19989 ✓ 187.00

E line 30<sup>th</sup>

N.	10.1	187.8
cb.	13.0	186.7
1/4	13.9	186.0
e	15.7	184.2
1/4	16.3	183.6
cb.	17.7	182.2
S	19.3	180.6

25' E of 30<sup>th</sup>

S	10.2	189.7
cb.	11.0	188.9
1/4	11.7	188.2
e	11.0	188.9
1/4	10.0	189.9
cb.	9.3	190.6
N	7.6	192.3

29

19989 ✓

50' E of 30<sup>th</sup>

N.	0.7	199.2
cb.	3.8	196.1
1/4	4.9	195.0
e	6.1	193.8
1/4	6.3	193.6
cb.	6.2	193.7
S	5.3	194.6

75' E of 30<sup>th</sup>

S	0.7	199.2
	1.1	198.8
	1.5	198.4
	0.8	199.1
	0.1	199.8
	+0.8	200.7
	+1.0	200.9
TP	1113 21045 054	199.35 ✓



68

210.98 ✓

100' E of 30<sup>th</sup>

N.	6.8	203.7
cb.	7.3	202.2
1/4	7.6	202.9
0	8.1	202.4
1/4	8.2	202.3
cb.	8.0	202.5
S	7.8	202.7

125' E of 30<sup>th</sup>

S	4.8	205.7
cb.	5.4	205.1
1/4	5.5	205.0
e	5.8	204.7
1/4	5.4	205.1
cb.	5.4	205.1
N	5.0	205.5 ✓
MP	6.56 (rock) ✓	206.57
	213.43	3.91

2/17/06 Hatch  
Hawkins  
L Moore

30

213.43 ✓

150' E of 30<sup>th</sup>

S	5.5	207.9
	5.9	207.5
	6.4	207.0
	6.0	207.4
	6.2	207.2
	5.7	207.7
N	5.8	207.6

175' E of 30<sup>th</sup>

N	4.3	209.1
	4.3	209.1
	4.4	209.0
	4.4	209.0
	4.5	208.9
	4.6	208.8
S	4.7	208.7

213.43

200' E of 30<sup>th</sup>

S	3.7	209.7
	3.6	209.8
	3.5	209.9
	3.1	210.3
	3.2	210.2
	2.6	210.8
N	2.9	210.5

225' E of 30<sup>th</sup>

N	2.1	211.3
	2.6	210.8
	2.8	210.6
	2.7	210.7
	3.2	210.2
	3.4	210.0
S	3.6	209.8

213.43

250' E of 30<sup>th</sup>

S	4.0	209.4
	3.7	209.7
	3.4	210.0
	2.4	211.0
	2.8	210.6
	2.3	211.1
N	1.9	212.5

275' E of 30<sup>th</sup>

N	2.3	211.1
	2.4	211.0
	2.5	210.9
	2.7	210.7
	3.3	210.1
	3.6	209.8
S	4.0	209.4

21343 ✓

300' E of 30<sup>th</sup>

S	4.4	209.0
	3.9	209.5
	3.5	209.9
	3.0	210.4
	2.8	210.6
	2.6	210.8
N	2.2	211.2

325' E of 30<sup>th</sup>

N	3.4	210.0
	3.5	209.9
	3.6	209.8
	3.9	209.5
	4.3	209.1
	4.4	209.0
S	5.1	208.3

21343 ✓

350' E of 30<sup>th</sup>

S	6.7	206.7
	6.3	207.1
	6.0	207.4
	5.6	207.8
	5.2	208.2
	5.0	208.4
N	4.8	208.6

375' E of 30<sup>th</sup>

N	7.9	205.5
	7.3	205.1
	8.9	204.5
	9.4	204.0
	9.3	204.1
	8.9	204.5
S	8.9	204.5

58

213.43 ✓

400' E of 30<sup>th</sup>

S	12.0	201.4
	11.7	201.7
	11.1	202.3
	10.9	202.5
	10.6	202.8
	10.5	202.9

N	9.9	203.5
---	-----	-------

425' E of 30<sup>th</sup>

N	12.0	201.4
	12.5	200.9
	12.8	200.6
	13.3	200.1
	13.1	200.3
	13.5	199.9
S	13.9	199.5
T.P.	15.4	202.23
	13.74	200.69

33

202.23 ✓

450' E of 30<sup>th</sup>

S	5.1	197.1
	4.8	197.4
	4.5	197.7
	4.3	197.9
	4.1	198.4
	3.4	198.8

N	3.0	199.2
---	-----	-------

475' E of 30<sup>th</sup>

N	6.3	195.9
	6.3	195.9
	6.6	195.6
	7.1	195.0
	7.5	194.7
	8.3	193.9
S	7.9	193.3

202.23 ✓  
500' E of 30<sup>th</sup>

S  
12.4 189.8  
11.3 190.9  
11.3 190.9  
10.5 191.3  
10.2 192.0  
9.7 192.5

N  
T.P. 0.35 189.63 ✓ 12.95 192.6 ✓  
525' E of 30<sup>th</sup> 189.28

N  
5.7 183.9  
4.1 185.5  
4.1 185.5  
4.2 185.4  
4.7 184.9  
6.0 183.6  
S  
7.4 182.2

189.63 ✓  
550' E of 30<sup>th</sup>

S  
15.7 173.9  
13.0 176.6  
12.0 177.6  
11.8 177.8  
11.2 178.4  
12.2 177.4

N  
T.P. 3.41 180.33 ✓ 12.6 177.0 ✓ 177.0  
575' E of 30<sup>th</sup> 12.71 176.92

N  
12.5 167.8  
8.3 172.0  
8.5 171.8  
9.5 170.8  
12.4 167.9  
13.5 166.8  
S  
15.0 165.3  
T.P. 2.58 170.11 12.80 167.53

170.11 ✓

601' E of 30<sup>th</sup> = W line 31<sup>st</sup>

S		17.2	152.9
		14.0	156.1
		10.7	159.4
		8.6	161.5
		7.7	162.4
		8.1	162.0
N		10.5	159.6
T.P.	4.33 162.38 ✓	12.06	158.05
	W. Cb. 31 <sup>st</sup>		
N		4.4	158.0
		4.4	158.0
		5.1	157.3
		5.7	156.7
		7.1	155.3
		8.8	153.6
S		12.9	149.5

162.38 ✓

W 1/4 31<sup>st</sup>

S		14.3	148.1
		11.3	151.1
		10.3	152.1
		9.3	153.1
		9.5	152.9
		8.2	154.2
N		6.3	156.1
	Cr. 31 <sup>st</sup>		
N		11.0	151.4
		10.2	152.2
		9.7	152.7
		10.7	151.7
		11.3	151.1
		11.6	150.8
S		9.4	153.0

16238 ✓

E 1/4 31<sup>st</sup>

S	5.0	157.4
	5.9	156.5
	5.9	156.5
	5.5	156.9
	4.5	157.9
	4.3	158.1
N	4.4	158.0 ✓
T.P. 11.13	171.98 ✓	25.8 159.85
E 1/4 31 <sup>st</sup>		
N	8.6	162.4
	9.0	162.0
	10.3	160.7
	11.3	159.7
	11.2	159.8
	11.6	159.4
S	8.8	161.2

17098 ✓

E Line 31<sup>st</sup>

S	5.2	165.1
	6.0	165.0
	7.7	163.3
	8.1	162.9
	6.9	164.1
	5.6	165.4
N	3.9	167.1 ✓
T.P. 12.90	183.80 ✓	0.8 170.90
25' E of 31 <sup>st</sup>		
N	7.2	176.6
	9.5	174.3
	11.2	172.6
	10.7	173.1
	9.8	174.0
	9.6	174.2
S	9.1	174.7 ✓
T.P. 12.80	195.99	0.61 183.19

19579 ✓  
50' E of 31<sup>st</sup>

S	12.2	183.8
	12.2	183.8
	12.1	183.9
	11.8	184.2
	11.0	185.0
	10.6	185.4
N	9.3	186.7
75' E of 31 <sup>st</sup>		
N	3.4	192.6
	4.2	191.8
	4.6	191.4
	5.0	191.0
	5.1	190.9
	5.2	190.8
S	5.6	190.4

19579 ✓  
100' E of 31<sup>st</sup>

S	2.0	194.0
	1.1	194.9
	1.2	194.8
	0.8	195.2
	0.3	195.7
	0.2	195.8
N	0.2	196.2
T.P.	9.23	205.07
	0.15	193.84
125' E of 31 <sup>st</sup>		
N	6.1	199.0
	6.8	198.3
	7.4	197.7
	7.7	197.4
	7.9	197.2
	8.3	196.8
	8.6	196.5



205.07 ✓

150' E of 31st

S	6.9	198.2
	6.6	198.5
	6.2	198.9
	5.7	199.4
	5.3	199.8
	4.9	200.2
N	4.6	200.5

175' E of 31st

N	3.6	201.5
	4.2	200.9
	4.7	200.4
	5.2	199.9
	5.6	199.5
	5.7	199.4
S	6.1	199.0

205.07 ✓

S 200' E of 31st

	5.7	199.4
	5.4	199.7
	5.0	200.1
	4.5	200.6
	4.0	201.1
	3.5	201.6
N	2.6	202.5

225' E of 31st

N	2.9	202.2
	3.7	201.4
	4.2	200.9
	4.7	200.4
	5.4	199.7
	6.0	199.1
S	6.2	198.9

20507'

250' E of 31<sup>st</sup>

S	12.2	192.9
	11.0	194.1
	9.3	195.8
	7.3	197.8
	6.3	198.8
	5.6	199.5
N	4.5	200.6

260' E of 31<sup>st</sup>

N	4.2	200.9
	5.7	199.4
	6.7	198.4
	5.3	196.8
	12.0	193.1
	14.0	191.1
S	15.0	190.1

20507'

375' E of 31<sup>st</sup>

S	9.8	195.3
	8.1	197.0
	6.9	198.2
	6.2	198.9
	5.9	199.7
	4.1	201.0
N	3.3	201.8

500' E of 31<sup>st</sup>

N	2.1	203.0
	2.7	202.4
	3.2	201.9
	3.8	201.3
	4.5	200.6
	5.2	199.9
S	5.9	199.2

20507 ✓

325' E of 31st

S	4.7	200.4
	4.9	200.7
	3.9	201.2
	3.2	201.9
	2.7	202.4
	2.2	202.9
N	1.6	203.5

350' E of 31st

N	1.7	203.4
	2.3	202.8
	2.8	202.3
	3.2	201.9
	3.9	201.2
	4.9	200.7
S	4.9	200.2

20507 ✓

375' E of 31st

S	5.0	200.1
	4.4	200.7
	3.9	201.2
	3.4	201.7
	3.0	202.1
	2.6	202.5
N	2.1	203.0

400' E of 31st

N	3.1	202.0
	3.5	201.6
	4.0	201.1
	4.2	200.9
	4.5	200.6
	5.1	200.0
S	5.7	199.4

20507 ✓

425' E of 31<sup>st</sup>

S	6.7	198.4
	6.3	198.8
	5.8	199.3
	5.4	199.7
	5.0	200.1
	4.5	200.6
N	4.2	200.8

450' E of 31<sup>st</sup>

N	5.0	200.1
	5.3	199.8
	5.7	199.4
	6.4	198.7
	6.9	198.3
	7.1	198.0
S	7.4	197.7

20507 ✓

475' E of 31<sup>st</sup>

S	9.6	195.5
	9.2	195.9
	8.8	196.3
	8.2	196.9
	7.8	197.3
	7.5	197.6
N	7.3	197.8

500' E of 31<sup>st</sup>

N	11.1	194.0
	10.7	194.4
	10.6	194.5
	10.9	194.2
	11.3	193.8
	11.9	193.2
S	12.6	192.5
T.P. 127	13.24	191.83

19300'

525' E of 31<sup>st</sup>

S	4.3	188.7
	3.8	189.2
	3.1	189.9
	2.5	190.5
	2.5	190.5
	2.4	190.6
N	2.5	190.5

530' E of 31<sup>st</sup>

N	6.2	186.8
	6.0	187.0
	5.9	187.1
	6.0	187.0
	6.4	186.6
	6.6	186.4
S	7.3	185.7

19300'

575' E of 31<sup>st</sup>

S	11.6	181.4
	11.1	181.9
	10.5	182.5
	11.2	181.8
	11.0	182.0
	11.5	181.5

N	3.18	184.44	11.7	181.60
TR			11.74	181.26

601' E of 31<sup>st</sup> = W Line 32<sup>d</sup>

N	6.73	177.71	13.22
	6.7	177.7	
	7.1	177.3	
	7.1	177.3	
	7.1	177.3	
	7.1	177.3	
S	7.6	176.8	

Levels on Ida street from  
A to north line Co. park

			232.66
	6.88	N.I. Rod	<del>40.0</del>
W. line	North line A		
E. line	<del>106.88</del>	9.0	230.0
C.	239.54	9.6	229.9
W. line		9.6	229.9
	300' South Harvard		
W. line		8.7	230.8
C		8.1	231.4
E. line		7.7	231.8
	250' South		
E. line		6.3	233.2
C		7.0	232.5
W. line		7.0	232.5
	200' South		
W. line		5.9	233.6
C		5.9	233.6
E. line		5.4	234.1

43

150' South

E. line	<del>106.88</del>	4.3	235.2
C	239.54	4.9	234.6
W. line		5.2	234.3

100' South

W. line		4.1	235.4
C		3.7	235.8
E. line		3.2	236.9

50' South Harvard

E. line		2.4	237.1
C		2.6	236.9
W. line		2.9	236.6

So. line Harvard

W. line		1.8	237.7
C		1.5	238.0
E. line		2.0	237.5

Center Harvard

E. line	<del>106.88</del>	2.0	237.5
c	239.54	1.3	238.2
W. line		1.2	238.2
J.P.	4.12	1.38	105.50
	242.28		238.16
	<del>109.62</del>		

North line Harvard

W. line		3.3	239.0
c		3.8	238.5
E. line		5.4	236.9

50' north

E. line		7.5	234.8
c		3.9	238.4
W. line		3.0	239.3

100' north

W. line		2.7	239.6
c		4.3	238.0
E. line		9.8	232.5

150' North

E. line		16.3	226.0
c		7.4	231.9
W. line		4.2	238.1

200' North

W. line		5.2	237.1
c		13.8	228.5

250' North

W. line		13.7	228.6
J.P.	0.43	13.0	229.28
			<del>229.71</del>
			<del>77.05</del>
			<del>76.62</del>

200' North

E. line		9.8	219.9
---------	--	-----	-------

250' North

c		11.5	218.2
---	--	------	-------

3rd So. line Begel

W. line		11.9	217.9
J.P.	0.25	12.53	217.15
			<del>217.43</del>
			<del>84.77</del>
			<del>84.52</del>

250' North

E. line 217.43  
~~84.77~~ 9.3 208.1

So. line <sup>Beech</sup> ~~208.1~~

C 9.3 208.1

Center ~~208.1~~

W. line 204.58 9.0 208.4  
 204.39

T.P. 0.49 ~~72.72~~ 13.04 ~~71.73~~

So. line ~~208.4~~

E. line 9.2 195.2

Center ~~195.2~~

C 7.1 197.8

North line ~~197.8~~

W. line 8.8 196.1

T.P. 1.80 ~~67.33~~ 12.69 ~~59.53~~

Center ~~196.1~~

E. line 7.1 186.9

Beech

North line ~~208.1~~

C 7.3 186.7

50' North

W. line 8.2 185.8  
 181.64

T.P. 2.15 ~~183.79~~ 12.35 ~~181.64~~  
~~51.13~~ 48.98

North line <sup>Beech</sup> ~~181.64~~

E. line 6.2 177.6

50' North

C 8.9 174.9

100' North

W. line 5.9 177.9  
 170.80

T.P. 1.93 ~~172.73~~ 12.99 ~~170.80~~  
~~40.07~~ 38.14

C 100' North 8.5 164.2

E. line 16.8 155.9

150' North

E. line 16.3 156.4

C 13.0 159.7  
 4.7 147.0



		50' north		
E. line		8.3	164.4	
		85' north		
E. line		18.7	154.0	
		200' north		
W. line		11.0	161.7	
C		12.6	160.1	
E. line		14.8	157.9	
		220' north		
C		14.4	158.3	
		230' north		
W. line		13.3	159.4	
		250' north		
W. line		9.6	163.1	
		250' north		
C	H.I.	<del>57.75</del> 15.4	168.4	
		250' north		
E. line	H.I.	<del>61.33</del> 193.99		
		cedars		
		So. line Amherst		
W. line		16.7	167.1	

46

		So. line	cedars	
		204.88	Amherst	
E. line	H.I.	<del>77.72</del>	8.3	196.6
C			14.9	190.0
		Center	cedars	
			Amherst	
C			6.0	198.9
W. line			13.3	191.6
		North line	cedars	
			Amherst	
W. line			4.8	200.1
		216.23		203.83
T.S.	12.40	<del>83.57</del>	1.05	71.17
		Center	Amherst	
E. line			3.9	212.3
		North line	Amherst	
C			4.7	211.5
		50' north		
W. line			9.2	207.0
		100' north		
W. line			1.4	214.8

		228.70	215.82
J.P.	12.88	<del>76.04</del>	<del>83.16</del>
		North line and hearst	
E. line		6.7	221.0
		50' north	
C		7.9	220.8
		100' north	
C		2.2	226.5
		150' north	
W. line		7.8	220.9
(No. line So. Park)	179.4	north	
W. line		5.1	223.6
J.P.	12.16	239.45	227.29
		<del>16.79</del>	<del>94.63</del>
		50' north	
E. line		8.4	231.1
		100' north	
E. line		5.1	234.4

	150' north	
C	8.3	231.5
E. line	2.8	236.7
(No. line So. Park)	179' north	
E. line	2.3	237.2
C	6.6	232.9

Cross-Sections over Walkways Ave  
at points where grades change bet  
Despard & Story.

	1.50	281.70		
			80' E Despard	
No line		9.3	272.4	
Ch		9.2	272.5	
1/4		9.1	272.6	
C		9.6	272.1	
1/2		9.8	271.9	
Ch		9.7	272.0	
No line		9.4	272.3	
T.P	0.77	269.54	12.93	268.77
			130' E Despard	
No line		1.9	267.6	
Ch		3.9	265.6	
1/4		5.2	264.1	
C		4.3	265.2	
1/2		5.7	263.8	
Ch		6.8	262.7	
No line		9.1	260.4	

48

190' E Despard.

So line		11.6	257.9	
No line		12.6	256.9	
			240' E Despard	
No line		2.9	266.6	
Ch		5.9	263.6	
1/4		10.2	259.3	
T.P.	0.26	256.94	12.86	256.68

190' E Despard

So Curb		2.3	254.6	
1/4		5.8	251.1	
C		9.3	247.6	
1/2		8.0	248.9	
No Curb		5.4	251.5	

Watkins Ave

NS.  
256.94

240' E Despard

Ch	2.1	254.8
So 1/2	8.2	248.7
Cl.	12.6	244.3
So line	12.4	244.5

290' E Despard

So Line	2.1	254.8
Cl.	3.1	253.8
T.P.	11.22	265.51
1/4		2.65
	13.0	252.5
C	15.5	250.0
1/4	15.3	250.2
Cl	12.7	252.8
No line	11.3	254.2

49

330' E Despard

No line	7.4	258.1
Cl.	2.4	263.1
T.P.	12.39	277.28
1/4	0.62	264.89
	11.8	265.5
Ch	11.4	265.9
1/4	11.6	265.7
Cl.	12.2	265.1
No line	13.2	264.1

390' E Despard

No line	3.7	273.6
Cl.	3.8	273.5
1/4	4.0	273.3
C	4.2	273.1
1/4	4.5	272.8
Cl	5.1	272.2
No line	5.4	271.9

Cross Section Watkins Ave

Date to Park  $\frac{4}{56}$  } Saw  
 } Curbin  
 } Thomas

POSTED

3.45 283.65

280.20

1.53 277.52 7.66 275.99

10' Line Date

No line 2.6 274.9

Ct 2.3 275.2

" 2.1 275.4

0 1.7 275.8

" 1.7 275.8

d 1.1 276.1

No line 1.0 276.5

50' W. Date

No line 2.7 274.8

Ct 3.1 274.4

" 3.5 274.0

C 3.8 273.7

" 4.1 273.4

Ct 4.2 273.3

No line 4.6 272.9

50

100' W. Date

No line 6.4 271.1

Ct 6.1 271.4

" 5.8 271.7

C 5.6 271.9

" 5.5 272.0

Ct 5.2 272.3

No line 5.2 272.3

150' W. Date

No line 7.6 269.9

Ct 7.7 269.8

" 7.7 269.8

C 8.0 269.5

" 8.4 269.1

d 8.4 269.1

No line 8.7 268.8

Watkins Ave.

277.52

200 W-E line 29<sup>th</sup>

No line	10.5	267.1
Ch	10.2	267.3
1/4	10.0	267.5
C	10.1	267.4
1/4	9.5	268.0
Ch	9.7	267.8
No line	9.8	267.7

E Cent 29<sup>th</sup>

No line	10.0	267.5
Ch	10.2	267.3
1/4	10.3	267.2
C	10.6	267.1
1/4	10.4	267.1
Ch	10.6	266.9
No line	10.9	266.6

51

E 1/4 29<sup>th</sup>

No line	11.2	266.3
Ch	11.1	266.4
1/4	10.9	266.6
C	10.7	266.8
1/4	10.6	266.9
Ch	10.6	266.9
No line	10.7	266.8

CTR 29<sup>th</sup>

No line	10.8	266.7
Ch	11.1	266.4
1/4	11.0	266.5
C	11.3	266.2
1/4	11.3	266.2
Ch	11.6	265.9
No line	12.0	265.5

Watkins Ave.

277.52

West 1/4 29<sup>th</sup>

So Line	12.2	265.3
Ch	12.0	265.5
1/4	11.7	265.8
C	11.5	266.0
1/4	11.5	266.0
Ch	11.2	266.1
No Line	11.2	266.2
West Line 29 <sup>th</sup>		
No Line	11.7	265.8
Ch	11.9	265.6
1/4	11.8	265.7
C	12.0	265.5
1/4	12.2	265.3
Ch	12.2	265.3
No Line	12.4	265.1

52

West Line 29<sup>th</sup>

So Line	<del>12.9</del>	264.6
Ch	12.6	264.9
1/4	12.5	265.0
C	12.4	265.1
1/4	12.4	265.1
Ch	12.2	265.3
No Line	12.3	265.2
T.P.	0.25	264.85
	12.92	264.60
50' W 29 <sup>th</sup>		
No Line	2.0	262.9
Ch	1.8	263.1
1/4	1.8	263.1
C	1.7	263.2
1/4	1.7	263.2
Ch	2.0	262.9
No Line	2.2	262.7

Watkins Ave.

264.85

75' W 29<sup>th</sup>

No Line	3.4	261.5
Cl	3.4	261.5
W	3.3	261.6
C	3.2	261.7
1/4	3.2	261.7
Cl	3.3	261.6
No Line	3.7	261.2

100' W 29<sup>th</sup>

No Line	5.4	259.5
Cl	5.0	259.9
1/4	4.9	260.0
C	5.0	259.9
1/4	5.0	259.9
Cl	5.0	259.9
No Line	5.2	259.6

53

125' W 29<sup>th</sup>

No Line	7.6	257.3
Cl	7.5	257.4
W	7.4	257.5
C	7.3	257.6
1/4	7.3	257.6
Cl	7.4	257.5
No Line	7.9	257.0

150' W 29<sup>th</sup>

No Line	10.8	254.1
Cl	10.4	254.5
1/4	10.0	254.9
C	9.9	255.0
1/4	9.8	255.1
Cl	9.9	255.0
No Line	10.2	254.7



68

Watkins Elev.

Ht.

264.85175' W 29<sup>th</sup>

No Line	12.7	252.2
Ch	12.8	252.1
"4	13.0	251.9

T.P. 0.25	252.59	12.51	252.34
-----------	--------	-------	--------

Ch	1.1	251.5
----	-----	-------

"4	1.1	251.2
----	-----	-------

Ch	1.7	250.9
----	-----	-------

No Line	2.5	250.1
---------	-----	-------

200' W = E line Bean St.

No Line	6.3	246.3
---------	-----	-------

Ch	5.2	247.4
----	-----	-------

"4	4.7	247.9
----	-----	-------

C	4.4	248.2
---	-----	-------

"4	3.9	248.7
----	-----	-------

Ch	4.0	248.6
----	-----	-------

No Line	4.0	248.6
---------	-----	-------

54

East End Bean

No Line	6.2	246.4
---------	-----	-------

Ch	6.0	246.6
----	-----	-------

"4	5.9	246.7
----	-----	-------

C	5.9	246.7
---	-----	-------

"4	6.3	246.3
----	-----	-------

Ch	7.0	245.6
----	-----	-------

No Line	8.5	244.1
---------	-----	-------

East "4" Bean

No Line	10.9	241.7
---------	------	-------

Ch	9.7	242.9
----	-----	-------

"4	8.9	243.7
----	-----	-------

C	8.6	244.0
---	-----	-------

"4	8.1	244.5
----	-----	-------

Ch	8.0	244.6
----	-----	-------

No Line	8.1	244.5
---------	-----	-------

## Watkins Ave

25259

## CTR Bean

No Line	9.9	242.7
Cl.	9.7	242.9
1/4	10.0	242.6
C	10.2	242.4
1/2	10.8	241.8
Cl.	11.9	240.7
No Line	13.2	239.4

## W 1/2 Bean

No Line	11.7	240.9
Cl.	11.7	240.9
1/4	11.6	241.0
C	12.3	240.3
1/2	12.9	239.7

T.P.	1.97	241.67	12.89	239.70
d.			3.4	238.3
No Line			5.1	236.6

55

## West Crib Bean

No Line	7.7	236.0
Cl.	5.9	235.8
1/4	4.6	237.1
C	3.7	238.0
1/2	3.0	238.7
Cl.	2.9	238.8
No Line	3.0	238.7

## West Line Bean

No Line	4.5	237.2
Cl.	4.3	237.4
1/4	4.6	237.1
C	5.2	236.5
1/2	6.0	235.7
Cl.	7.4	234.3
No Line	9.3	232.4

Watkins Ave

241.67

25' W of Bean

No Line	130	228.7
Cl	11.1	230.6
1/4	9.5	232.2
C	8.3	233.4
1/4	7.4	234.3
Cl	7.1	234.6
No Line	7.1	234.6

50' W of Bean

No Line	10.8	230.9
Cl	10.9	230.8
1/4	10.7	231.0
C	11.4	230.3
1/4	12.5	229.2

TP 2.24 231.00 12.91 228.76

Cl	3.9	227.1
No Line	5.9	225.1

56

75' W of Bean

No Line	9.1	221.9
Cl	7.0	224.0
1/4	4.8	226.2
C	3.6	227.4
1/4	3.2	227.8
Cl	3.1	227.9
No Line	3.2	227.8

100' W of Bean

No Line	6.6	224.4
Cl	6.1	224.9
1/4	6.1	224.9
C	6.4	224.6
1/4	7.4	223.6
Cl	9.0	222.0
No Line	11.4	219.6

Watkins Ave

Ht.  
231.0

125' W of Bean

No Line	12.5	218.5
Ct.	10.0	221.0
1/4	8.8	222.2
C	8.8	222.2
1/4	9.4	221.6
Ct.	10.4	220.6
No Line	12.8	218.2
T.P. 0.51	218.80	12.71 218.29

150' W of Bean

No Line	4.1	214.7
Ct.	2.9	215.9
1/4	2.9	215.9
C	5.1	213.7
1/4	7.0	211.8
Ct.	10.4	208.4
T.P.	14.1	204.7

175' W Bean

No Line	10.6	208.2
Ct.	12.8	206.0
T.P. 1.12	207.23	12.69 206.11
No 1/4	2.9	204.3
Ct.	5.5	201.7
1/4	8.8	198.4
Ct.	13.0	194.2
T.P. 2.40	197.17	12.46 194.77

No Line 6.3 190.9

185' W. Bean

No Line	11.9	185.3
No Ct.	8.7	188.5

200' W - E. L. Park St

No Line	8.3	188.9
Ct.	13.6	183.6
1/4	8.4	189.8

Watkins Ave

197.17

POSTED

E line Park St.

Center	5.6	1916
W	4.6	1926
Cl	2.7	1945
No Line	0.8	1964

58

M. 08

GRAND

238.0

256.0

261.0

297H

263.0

274.0

DATE.

HAWTHORNS

ST.

720

238.0

256.0

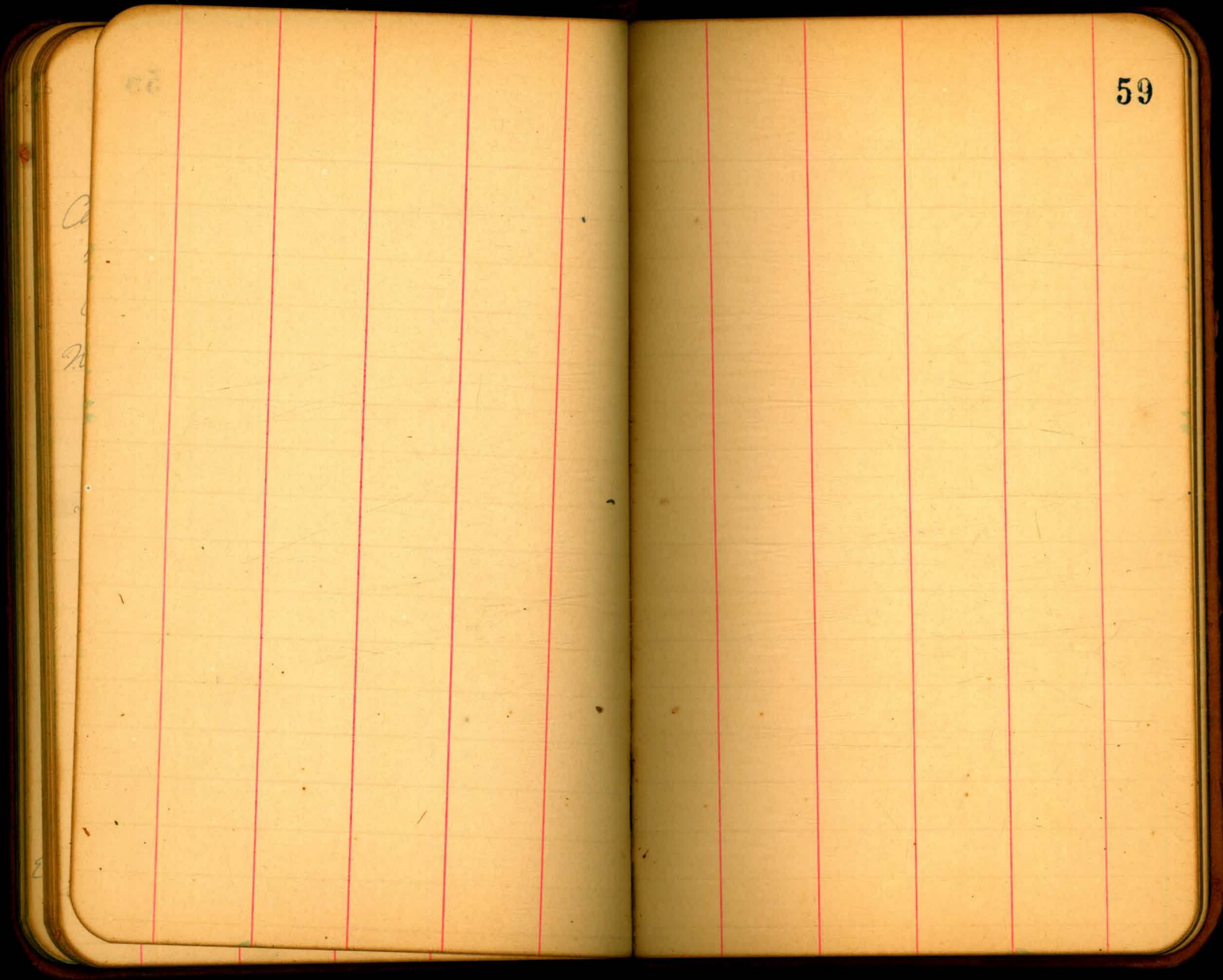
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ST.

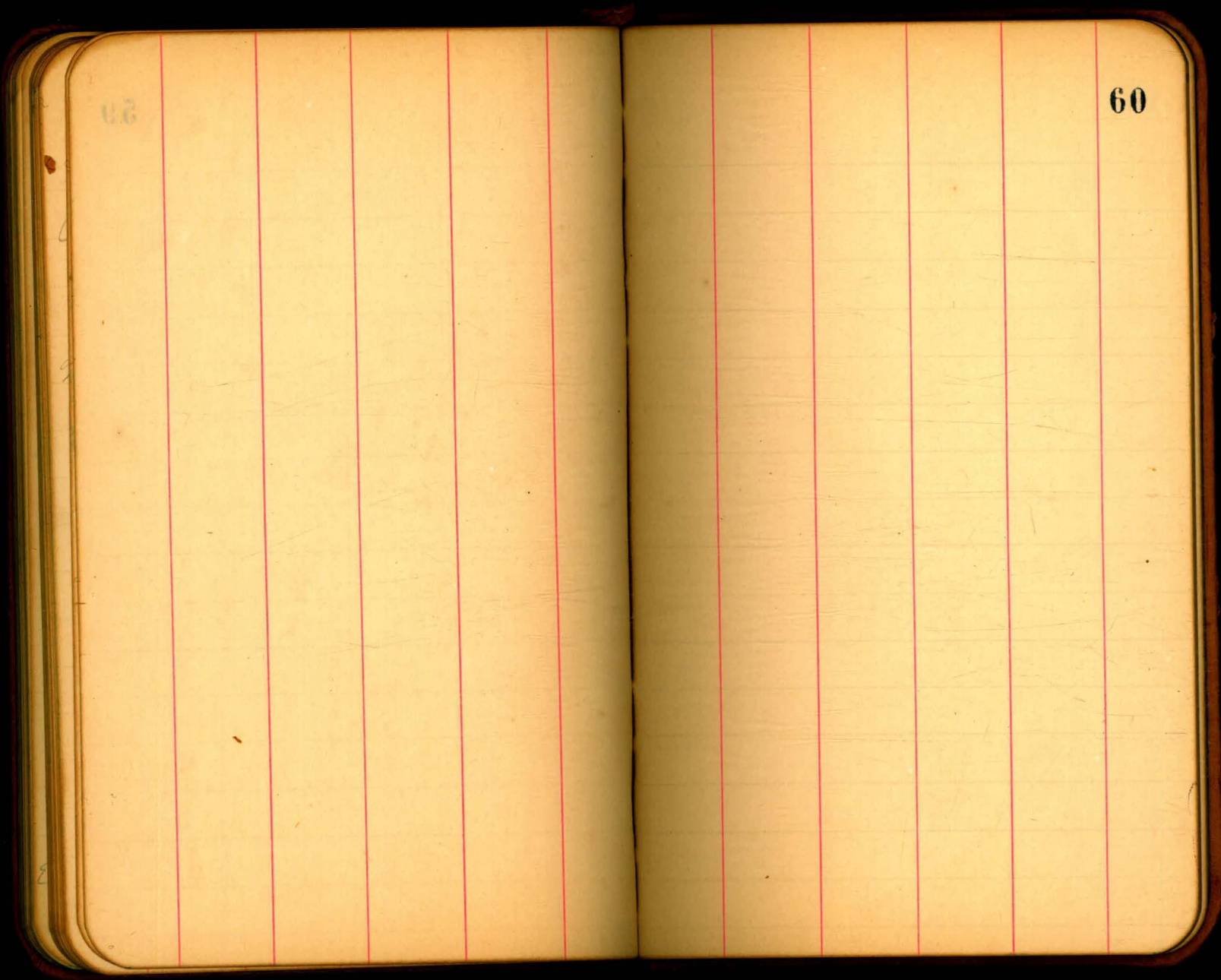
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276.0

ST.



59



59

60



60

61

61

62

50

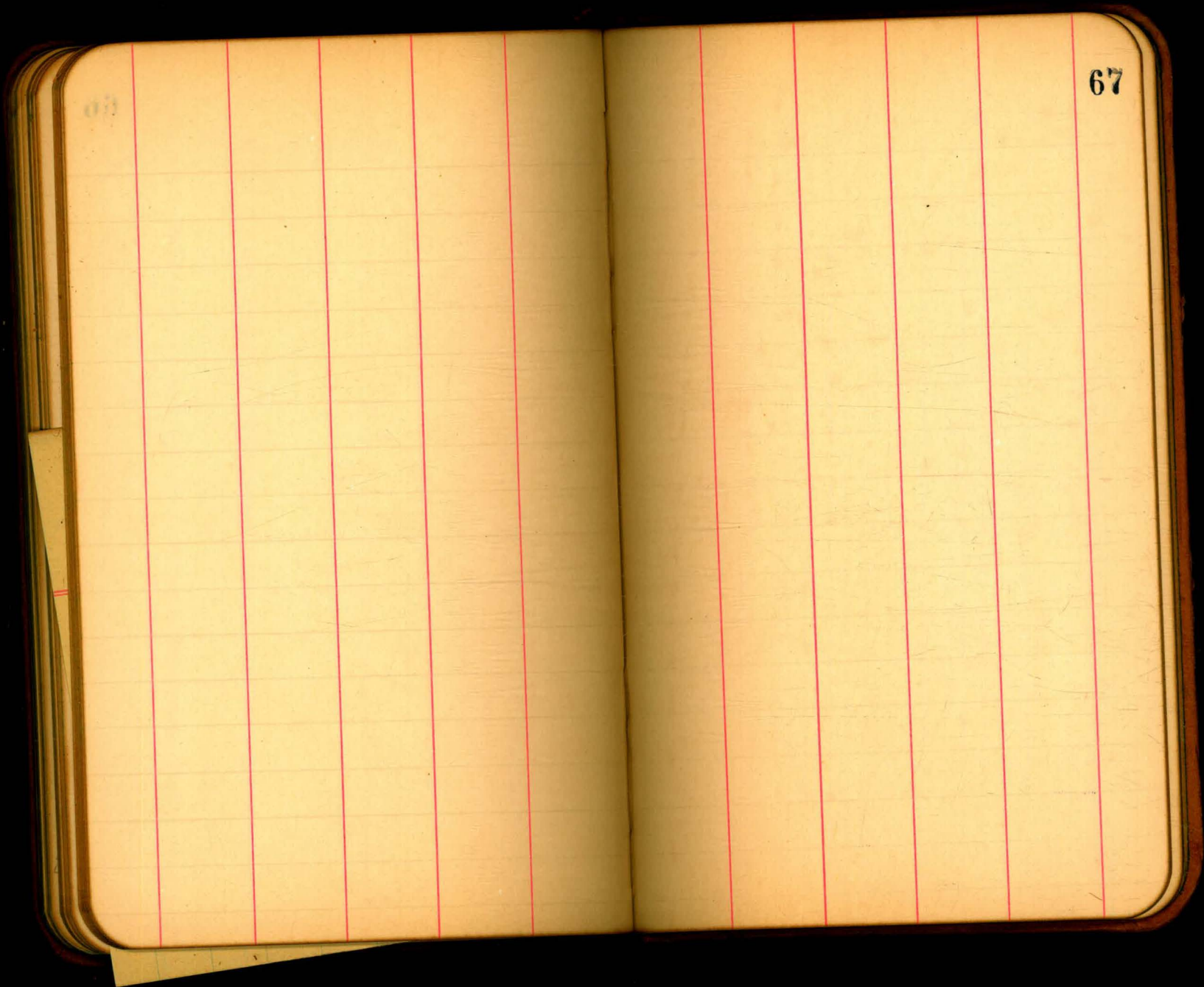
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63

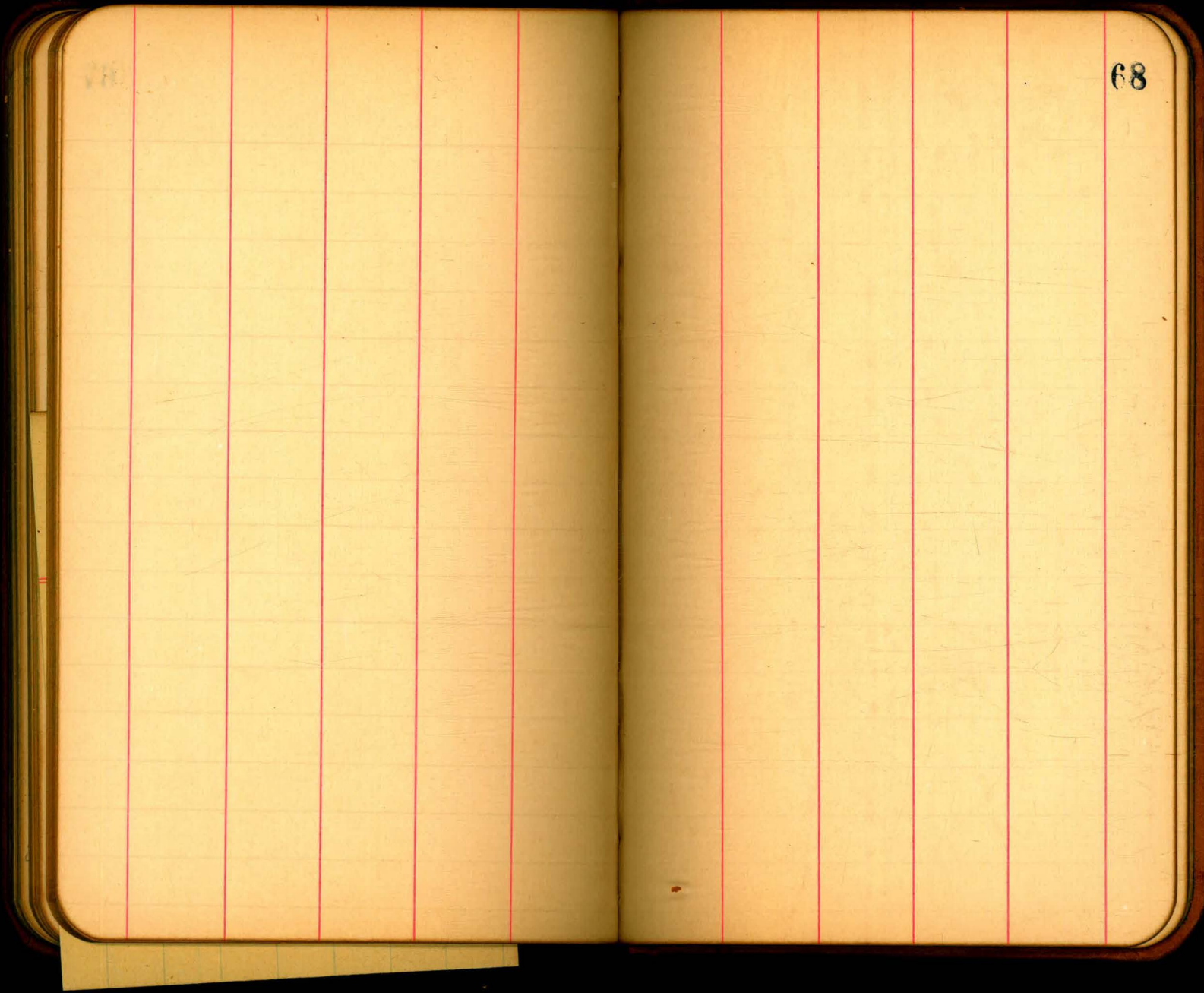
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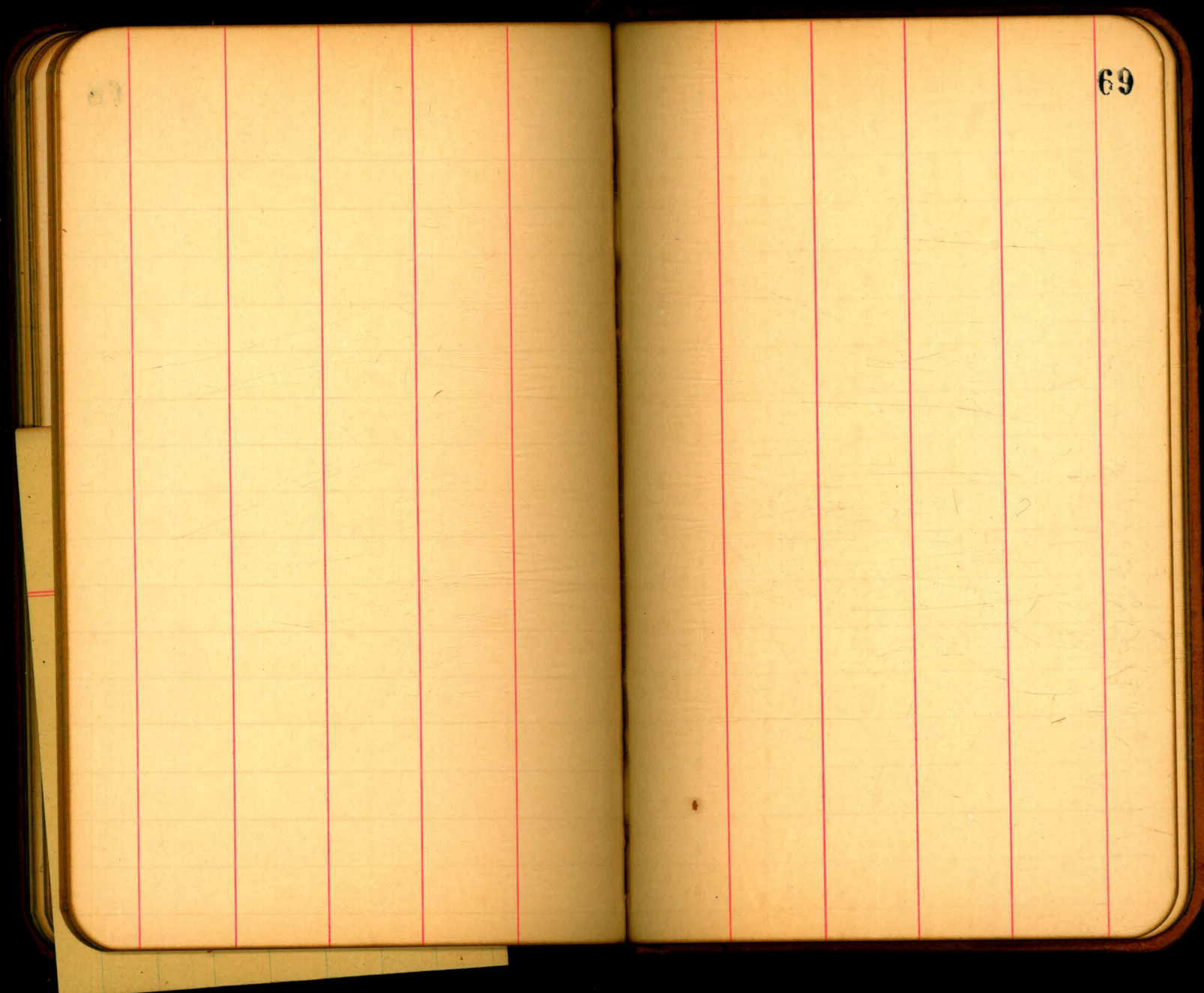
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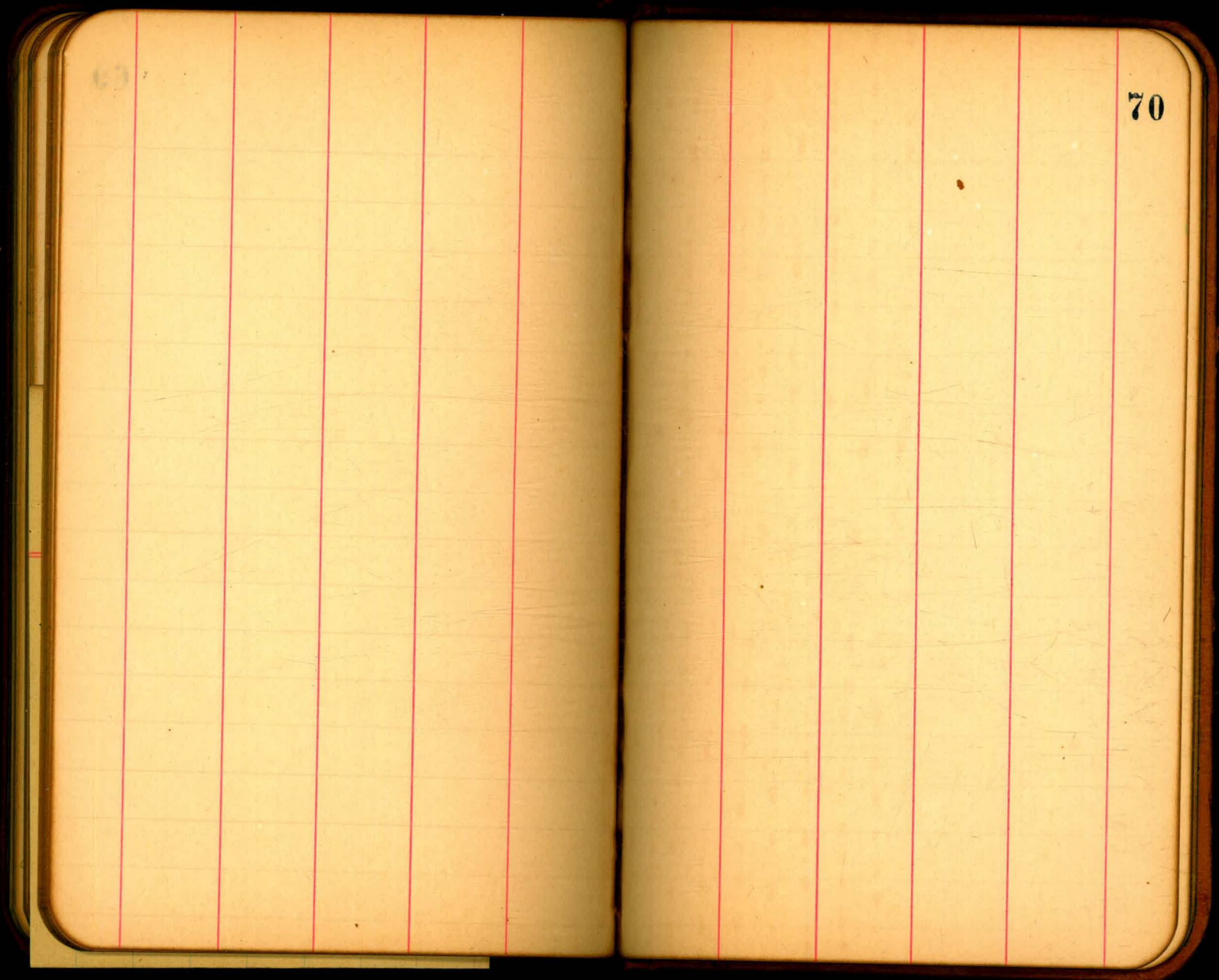
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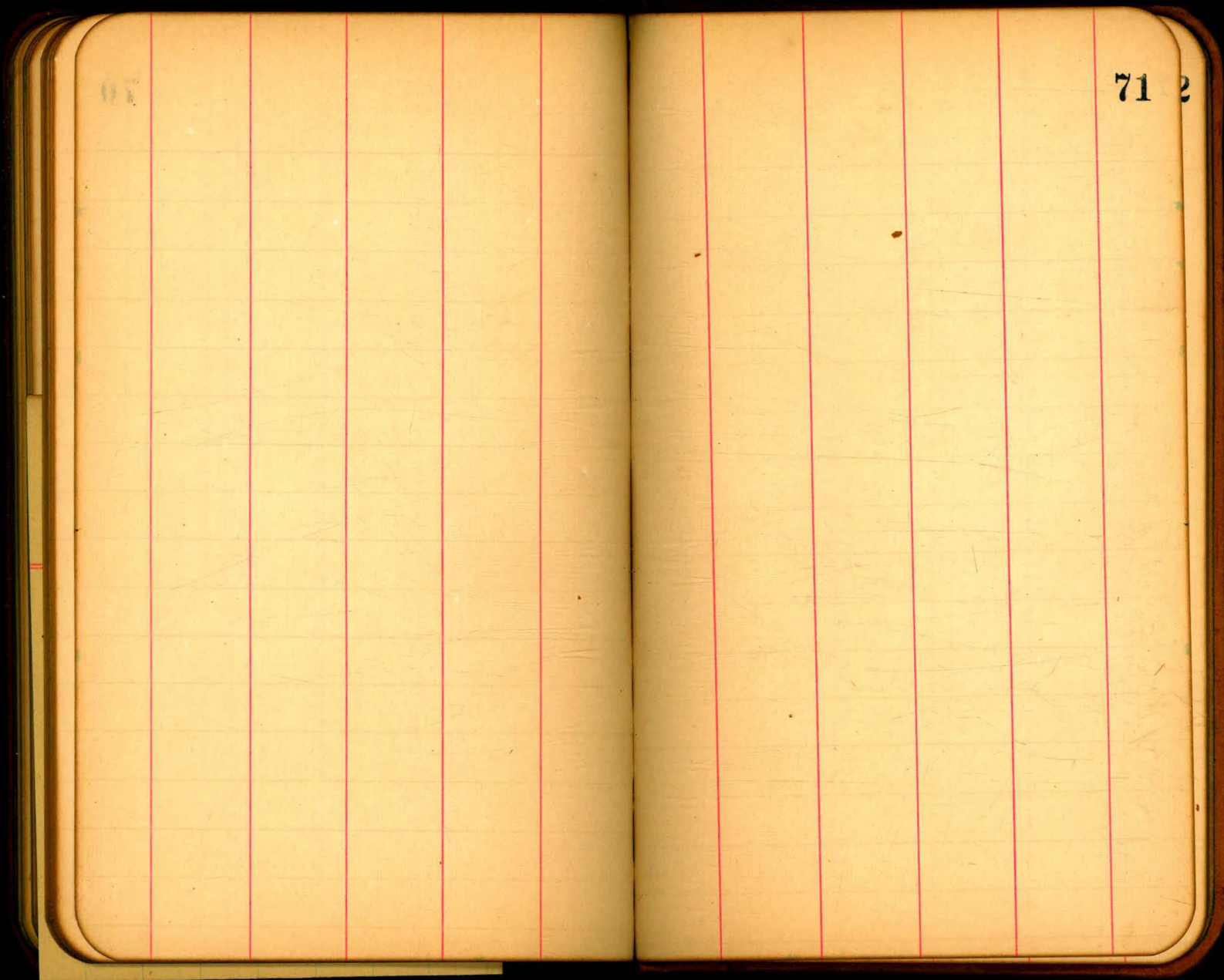




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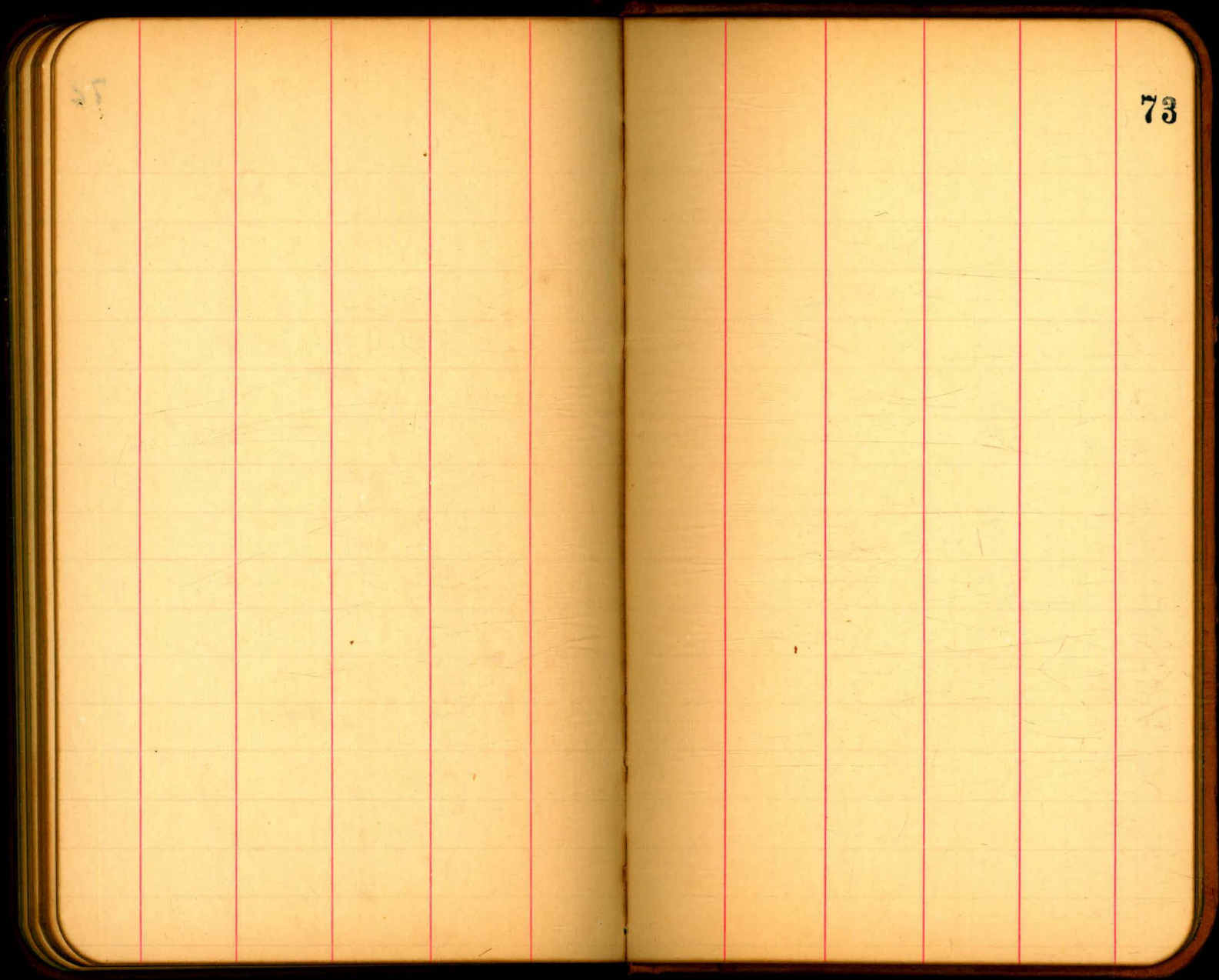


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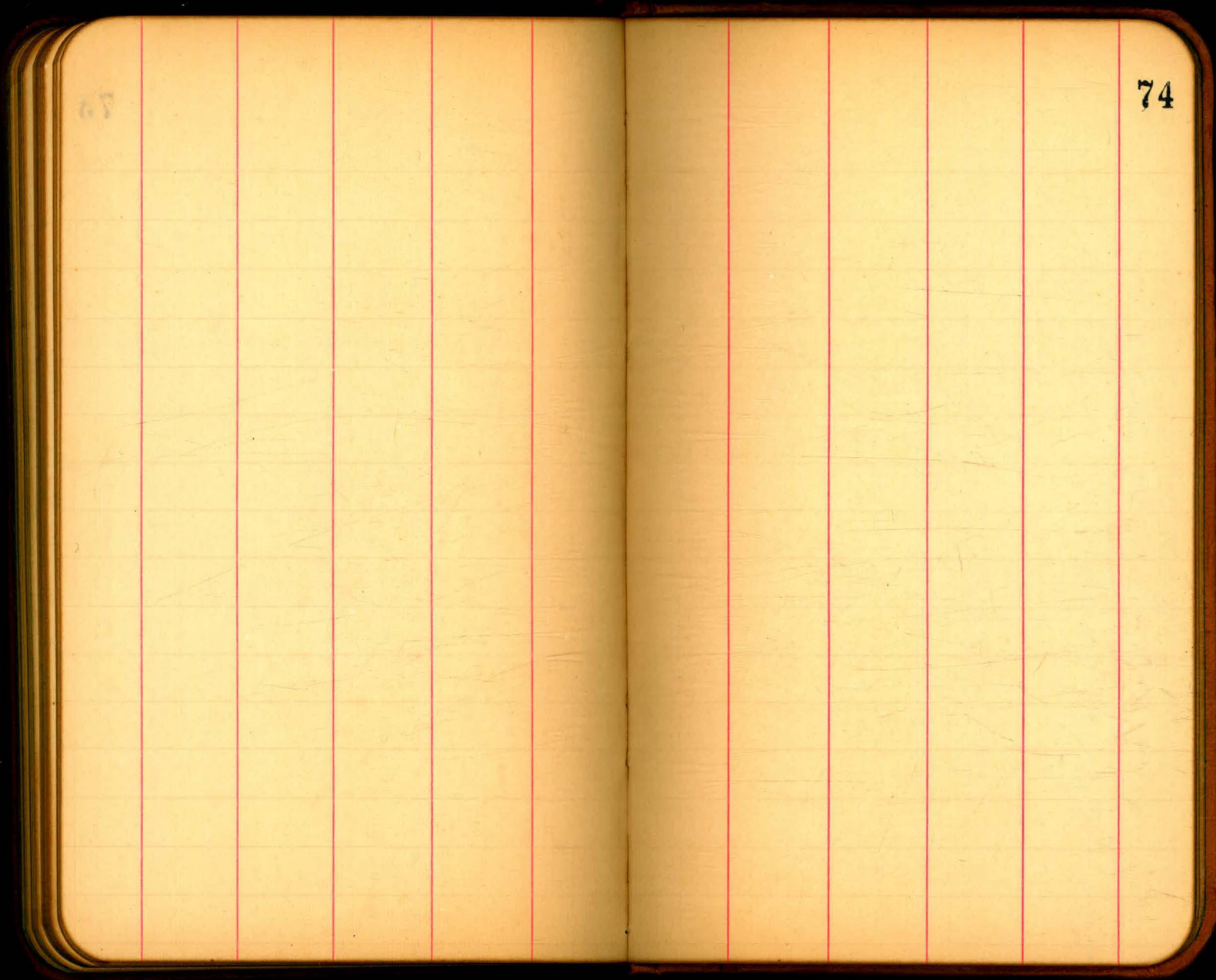
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67

72



73

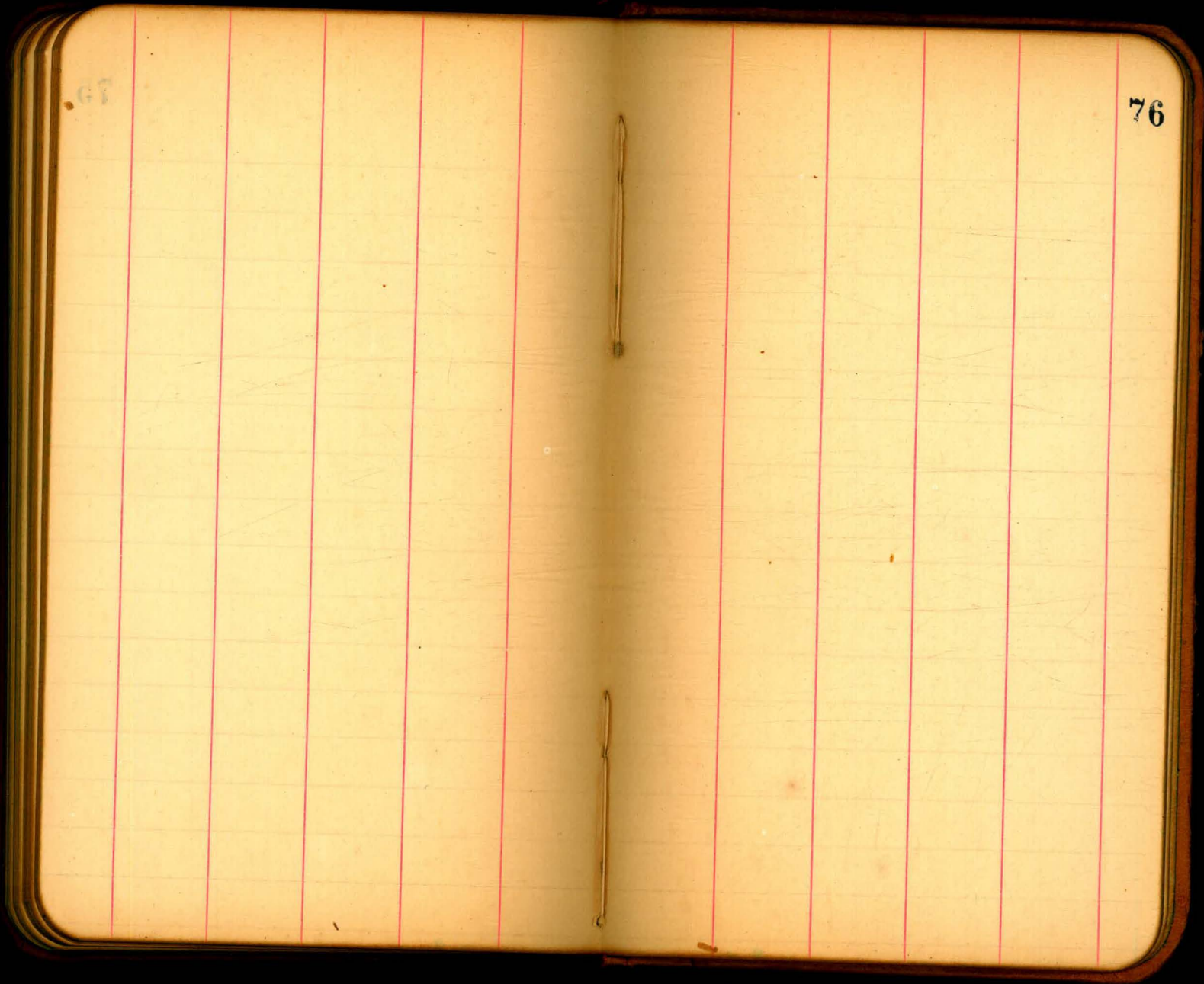


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74

45

75



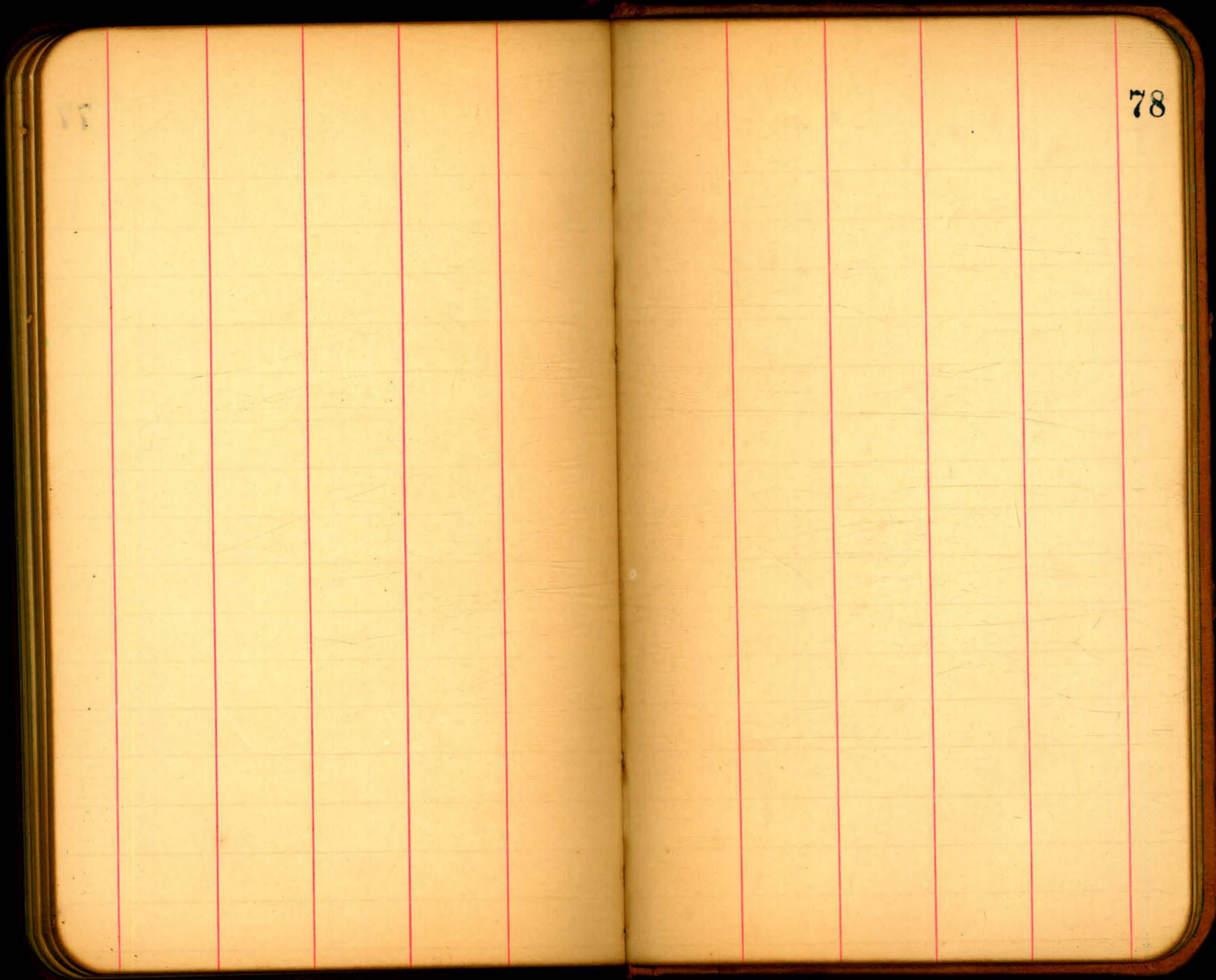
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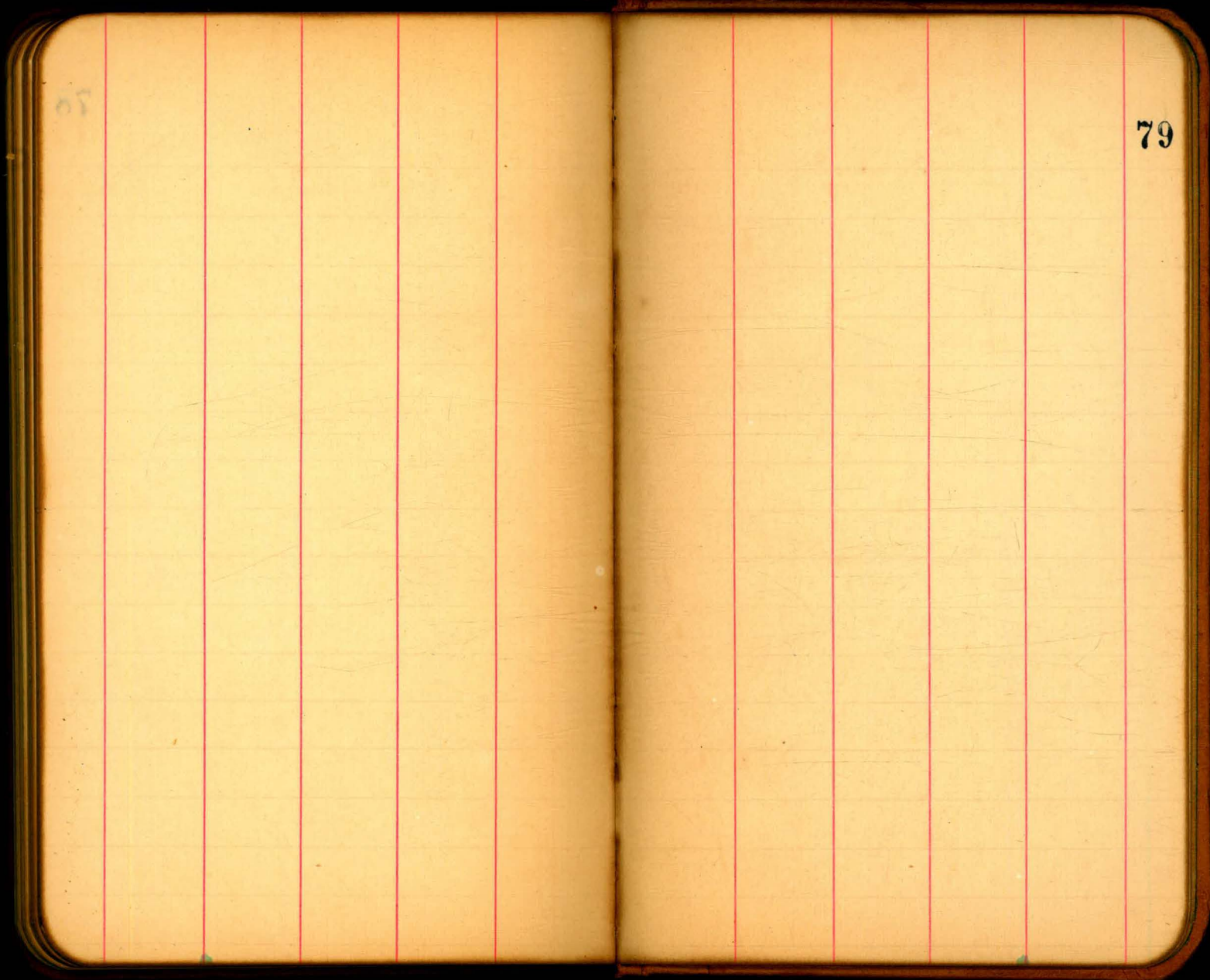
67

77



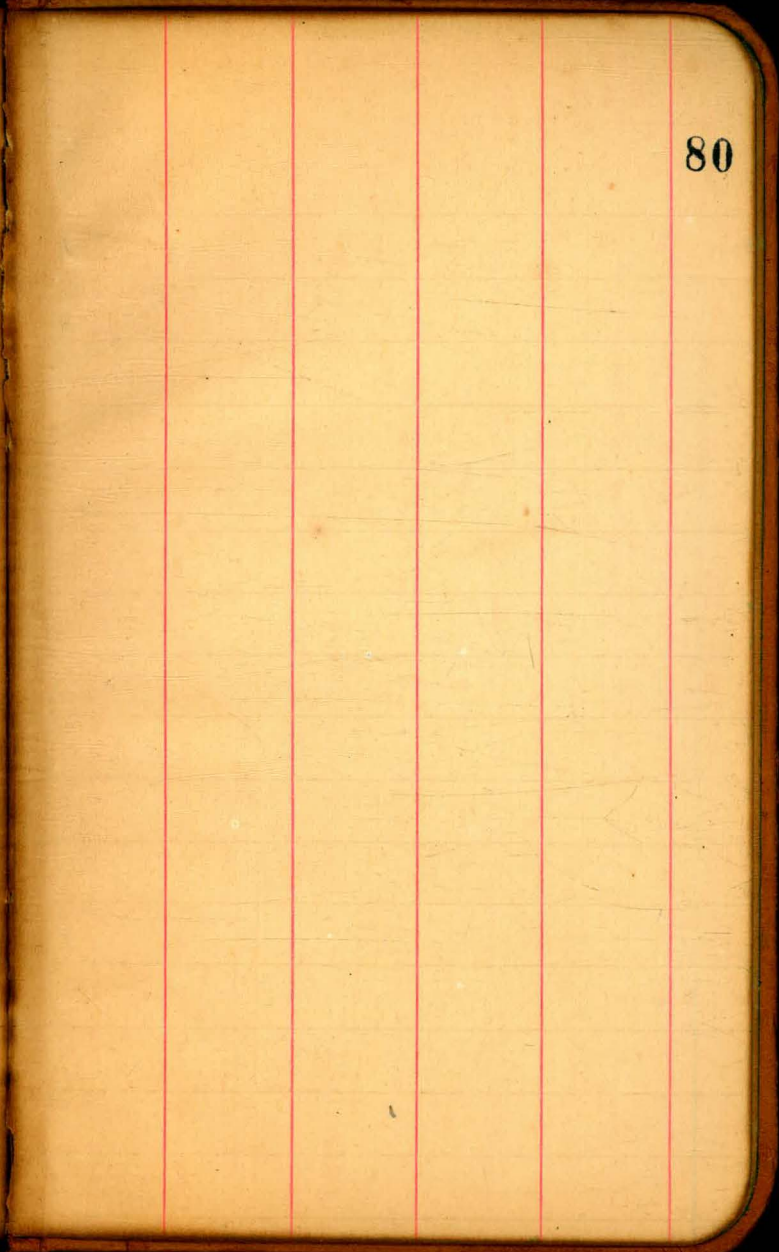
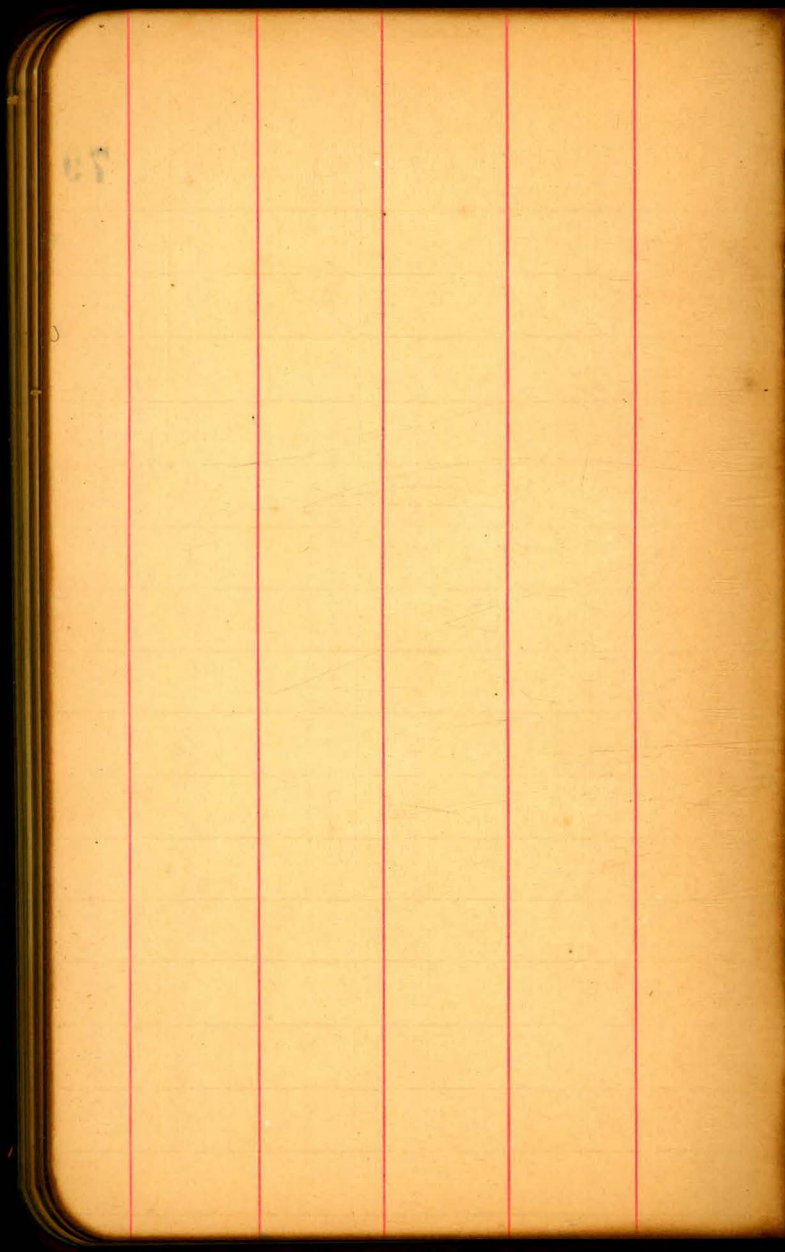
77

78



68

79



174  
306 Plan - 34  
221  
19006  
109  
174.66  
175.00  
195.71  
86.7  
199.9  
193.56  
12.32  
187.2  
76.00  
206.854  
39.9  
191.10  
197.2  
149.8  
190.30  
68  
191.10  
177.92  
178.50

12.77  
21.35  
20.86  
175.00  
199.9  
97  
192.77  
39.9  
197.2  
12.4  
11.36

43.2  
2.8  
12.4

117.1  
35

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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	88
2	99.94	3.49	99.92	3.93	99.91	4.36	99.88	4.80	87
3	99.86	5.23	99.84	5.67	99.81	6.10	99.79	6.54	86
4	99.76	6.98	99.73	7.41	99.69	7.85	99.66	8.28	85
5	99.62	8.72	99.58	9.15	99.54	9.58	99.50	10.02	84
6	99.45	10.45	99.41	10.89	99.36	11.32	99.31	11.75	83
7	99.25	12.19	99.20	12.62	99.14	13.05	99.09	13.49	82
8	99.03	13.92	98.97	14.35	98.90	14.78	98.84	15.21	81
9	98.77	15.64	98.70	16.07	98.63	16.50	98.56	16.93	80
10	98.48	17.36	98.40	17.70	98.33	18.22	98.25	18.65	79
11	98.16	19.08	98.08	19.51	97.99	19.94	97.90	20.36	78
12	97.81	20.79	97.72	21.22	97.63	21.64	97.53	22.07	77
13	97.44	22.50	97.34	22.92	97.24	23.04	97.13	23.77	76
14	97.03	24.19	96.92	24.62	96.81	25.04	96.70	25.46	75
15	96.59	25.88	96.48	26.30	96.36	26.73	96.25	27.14	74
16	96.13	27.56	96.00	27.98	95.88	28.40	95.76	28.52	73
17	95.63	29.24	95.50	29.65	95.37	30.07	95.24	30.49	72
18	95.11	30.90	94.97	31.32	94.83	31.73	94.69	32.14	71
19	94.55	32.56	94.41	32.97	94.26	33.38	94.12	33.79	70
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	68
22	92.72	37.46	92.55	37.86	92.39	38.27	92.22	38.67	67
23	92.05	39.07	91.88	39.47	91.71	39.87	91.53	40.27	66
24	91.35	40.67	91.18	41.07	91.00	41.47	90.81	41.87	65
25	90.63	42.26	90.45	42.66	90.26	43.05	90.07	43.44	64
26	89.88	43.84	89.69	44.23	89.49	44.62	89.30	45.01	63
27	89.10	45.40	88.90	45.79	88.70	46.17	88.50	46.56	62
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.	DEGREES.		¼ DEGREE.		½ DEGREE.		¾ DEGREE.		Degrees.
	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	

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