

Spillway Extension

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475

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MINING  
TRANSIT BOOK  
384

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MICROFILMED  
JAN 13 1965

475

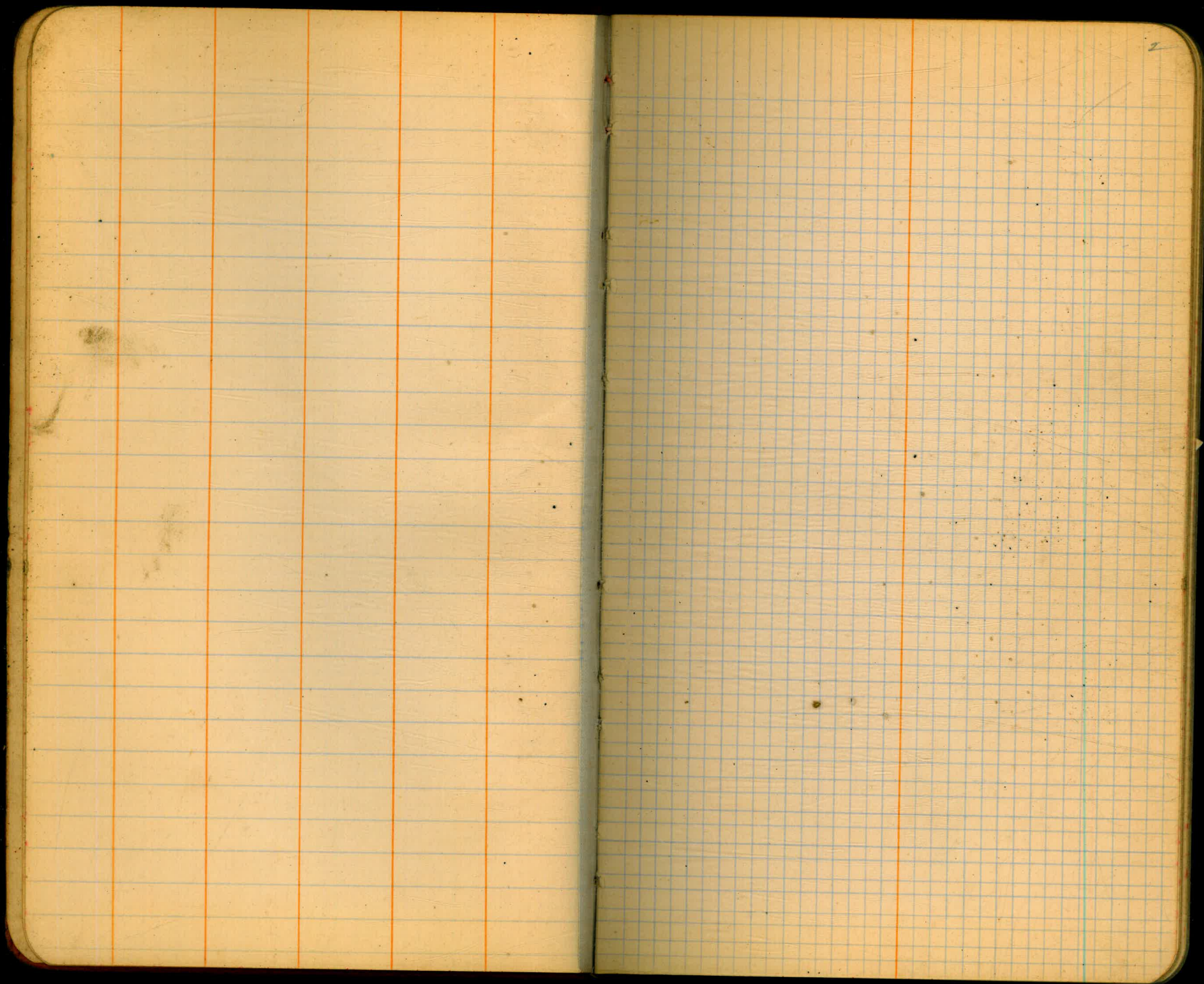
Spillway Extension

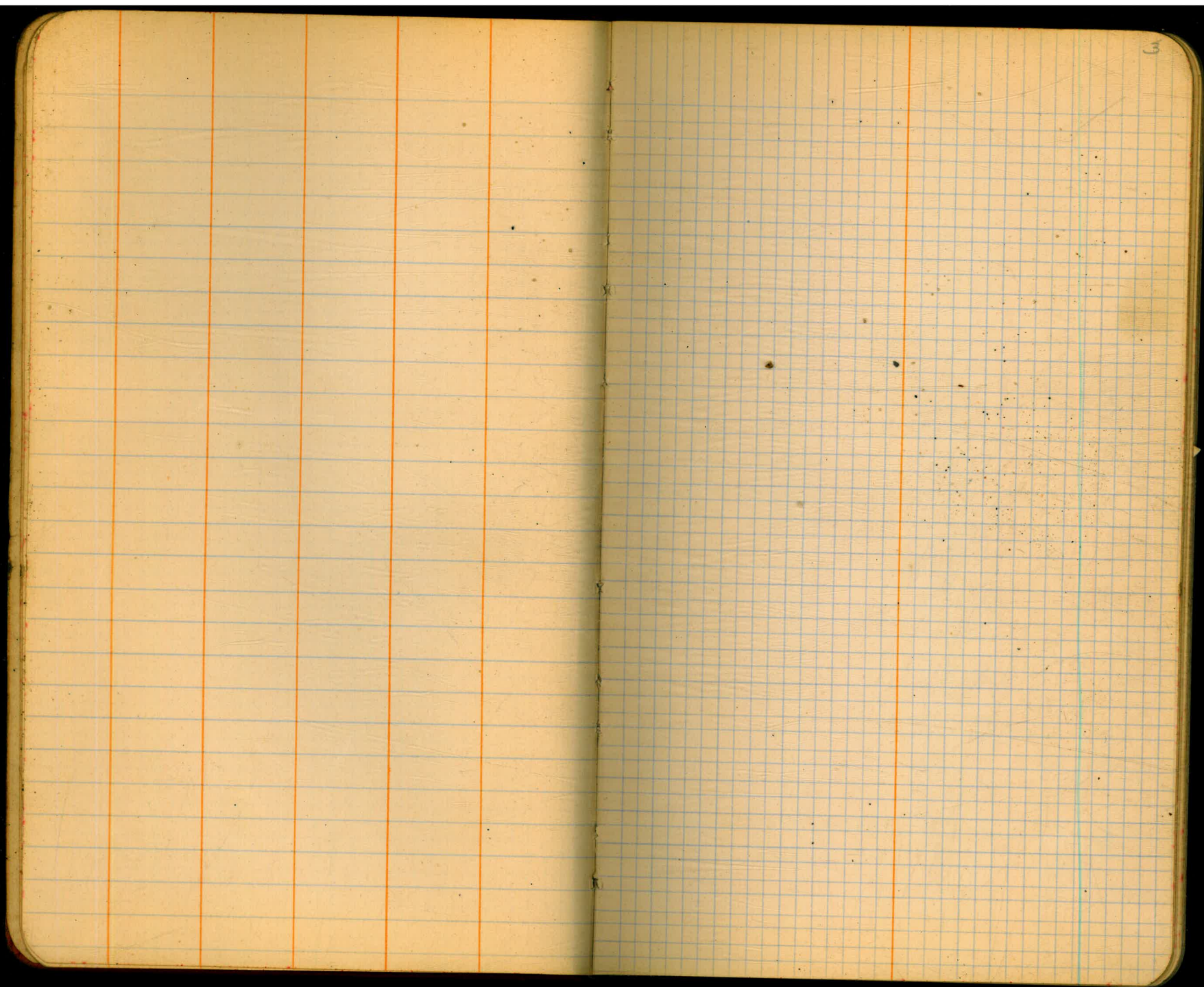
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Spillway Extension

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Offset Line Along South Side Wall

4

13+25 ○

Offset Line to Top of Finished Concrete

14+00  
Ld. & Tk.

14+25  
Ld. & Tk.

14+50  
Ld. & Tk.

14+75 ○

67.00

14+75  
Ld. & Tk.

12" from  
edge of Conc.

15+00  
Red Head

15+25  
Red Head

15+48  
Ld. & Tk.

⊕

## Slope Stakes - So. Side

Aug. 17-1934

Simpson  
Paper  
Isabelle

5

				Vertical cut Stake Sta. 10+25 - No Side
	11.92	590.86	578.94	
10+00		0.57	590.29	586.29
+25		8.82	582.04	578.44
T.P.		12.96	577.90	
	2.38	580.28		
+39 <sup>29</sup>		0.63	579.65	573.95
+50		5.90	574.38	570.58
+75		9.65	570.63	562.73
T.P.		12.73	567.55	
	1.00	568.55		
11+00 <sup>29</sup>		5.96	562.59	554.79
		6.43	562.12	check on Grade Pin 10+80 <sup>29</sup> Elev. 562.12.

Finish Grades  
Aug. - 17-1934

B.M.	8.60	607.86	599.26
9+50		4.82	603.04

## Aug. - 18-1934

Grade Pin 10+80 <sup>29</sup>	2.03	564.15	562.12
11+00 <sup>29</sup>		T.P. 8.36	555.79
	0.82	556.61	
+20		6.16	550.45

Cut stakes to Bottom of Footing  
Along So. Side wall.

Simpson  
Soper  
Isabelle

6

Aug. - 20 - 1934.

Slope stake 10+00 So. Side	0.54	590.83	590.29
10+00		4.04	586.79
+25		11.89	578.94
T.P.		0.76	590.07
8.40	598.47		
9+75		3.83	594.64

Aug. - 21 - 1934

Slope stake 12+25 So. Side			545.22
2.42	547.64		
12+30 <sup>29</sup>		5.13	542.51 C-15

vertical cut Sta. 14+75	6.45	548.20	541.75
12+50		5.75	542.45 C-15
+75		5.82	542.38

Grade Pin 14+40	6.82	549.18	542.36
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3.18 546.00 set stake in No. Bank of cut for  
Grade West of sta. 15+50



Finish Grades, And vertical cuts.

Aug. 22-1934

Slope stake 11+00 <sup>29</sup> S. Side	3.68	566.27	562.59	
			4.13	562.14
				check on
10+80 <sup>29</sup> No. Side		4.70	561.57	C-1 <sup>5</sup> to
				Bottom of footing
<del>Slope stake 11+10 - So. Side</del>	<del>8.87</del>	<del>566.23</del>	<del>557.36</del>	
Grade Pin 10+80 <sup>29</sup>	4.13	566.25	562.12	
11+00 <sup>29</sup>		10.41	558.84	Finish Grade
T.P.		10.83	558.42	
	4.17	559.59		
11+00 <sup>29</sup>		3.75	555.84	
+20		9.19	550.40	
T.P.		11.87	547.72	
	3.02	550.74		
11+40		4.31	546.43	
+60		6.73	544.01	
+80 <sup>29</sup>		7.58	543.16	

Grade Pin 10+80<sup>29</sup>  
Elev. 562.12

Bottom of footing

Finish Grade

## Slope stakes - North Side

Aug. - 24 - 1934

Grade Pin						
10+80 <sup>29</sup>	0.52	562.64		562.12		
11+00 <sup>29</sup>			7.35	555.29	cut 1 <sup>5</sup>	Set Vertical cut Point
+10			7.58	555.06	551.96	cut 3 <sup>2</sup> out 1 <sup>24</sup>
+20			10.34	552.30	549.40	cut 2 <sup>2</sup> out 1 <sup>81</sup>
T.P.	2.97	553.23	12.38	550.26		
11+30			0.51	552.72	547.22	c-5 <sup>5</sup> out 3 <sup>78</sup>
			2.83	550.40	check on	Grade Pin 11+20
	2.86	553.26				Elev. 550.40
11+40			1.63	551.63	545.42	cut 6 <sup>2</sup> out 7 <sup>65</sup>
+50					544.03	

Vertical cuts to Bottom of Footing  
Along So. Side wall

Sept. - 7 - 1934

Slope stake						
12+00 So. Side	2.42	548.62		546.20		
12+30 <sup>29</sup>			6.11	542.51	c-1 <sup>5</sup>	
11+80 <sup>29</sup>			5.96	542.66	c-1 <sup>5</sup>	
11+60			5.11	543.51	c-1 <sup>5</sup>	
11+40			2.69	545.93	c-1 <sup>5</sup>	
T.P.			0.49	548.13		
	10.59	538.72				
11+20			8.82	549.90	c-1 <sup>5</sup>	
11+00 <sup>29</sup>			3.43	555.29		
			8.34	550.48	check on	Grade Pin 11+20
						Elev. 550.45

Simpson  
Saper  
Rebelle

11+10 = .5625:1
+20 = .625:1
+30 = .6875:1
+40 = .75:1
+50 = .8125:1
+60 = .875:1
+70 = .9375:1
+80 <sup>29</sup> = 1:1

11+80 <sup>29</sup> = 0.50
11+60 = 0.49
11+40 = 0.48
11+20 = 0.46
11+00 <sup>26</sup> = 0.46

Vertical cuts to Bottom of Footing  
Along South Side Wall.

Aug. 24-1934

Simpson  
Soper  
Isabelle

9

Station	Dist	Elev	Dist	Elev	Notes
Finish Grade Pin - 8+50	8.11	642.56		634.45	
8+25			0.81	641.75	cut 15 vertical
+50			8.66	633.90	"
T.P.			12.64	629.92	
	0.49	630.41			
8+75			4.36	626.05	"
9+00			12.22	618.19	"
T.P.			12.88	617.53	
	0.21	617.74			
+25			7.40	610.34	"
T.P.			12.04	605.70	
	1.54	707.24			
9+50			4.75	602.49	"
			4.21	603.03	check on

Finish Grade Pin - 9+50  
Elev. 603.04

Cuts Along West edge of Cutoff  
Trench at Sta. 15+50.

Finish Grade P.n 15+00	6.32	548.49	542.17	
				Grade For Bottom of Trench
		2.4	546.1	531.00
		4.8	543.7	"
		7.6	540.9	"
South end of cutoff.		4.87	543.62	C-12 <sup>6</sup>

Finish Grades  
Aug. 29-1934

vertical cut Sta. 10+00	4.45	591.24	586.79	
10+00			3.90	587.34
vertical cut Sta. 10+39 <sup>29</sup>	4.55	579.00	574.45	
10+39 <sup>29</sup>			4.00	575.00
vertical cut 10+50	8.17	579.25	571.08	
10+39 <sup>29</sup>			4.25	578.00
			4.76	574.49
Slope stake 10+50 S. side	4.76	579.14	574.38	
Slope stake 10+50 No. side			1.26	577.88
			4.14	575.00
Slope stake 11+80 <sup>29</sup> S. side	1.16	550.22	549.06	Rec. Elev. 577.88
11+40			3.79	546.43
+20			+0.18	550.40

600-18

# Finish Floor Grades

Aug. 30-1934.

Slope stake 11+10 <sup>29</sup> So.	2.27	551.33	549.06	
11+40 check	4.90	546.43	546.43	
+60	7.32	544.01		
+80 <sup>29</sup>	8.17	543.16		
11+20	0.93	550.40		
Finish Grade Pin 10+39 <sup>29</sup>	4.02	579.02	575.00	
10+39 <sup>29</sup> Vertical cut So. Side Facing	7.57	574.45		
Slope stake 11+00 <sup>29</sup> So. Side	3.81 <del>3.82</del>	566.40	562.59	
Grade Pin 11+00 <sup>29</sup> check	10.55	555.86	555.84	
Vertical cut 10+80 <sup>29</sup> So. Side	4.83	561.57		
	4.28	562.12		
Slope stake 12+00 So. Side	1.18	547.38	546.20	
12+70 check	4.50	542.88	542.89	Exc. Elev.
12+30 <sup>29</sup>	4.37	543.01		

4.26

76.29

4.1

Finish Floor Grades

Sept. 1-1934

Vertical cut  
Sta. 14+75 7.32 549.07 541.75  
So. Side

15+40 Finish Grade 7.02 542.05  
15+00 " " 6.90 542.17

Sept. 4-1934.

Vertical cut  
Sta. 14+00 4.53 546.51 541.98  
So. Side

14+00 4.03 542.48 Finish Grade  
13+50 3.87 542.62 " "  
14+40 4.15 542.36

Slope stake  
Sta. 12+00 1.04 547.24 546.20  
So. Side

12+30<sup>29</sup> 4.23 543.01 Finish Gr.  
12+70 4.35 542.89 " "  
13+10 4.48 542.76

Cut stakes on cut-off trench  
Sta. 15+50.

Finish  
Grade Pin  
14+00 5.63 548.11 542.48  
7.11 541.00 531.00  
10.11 538.00  
12.11 536.00

cut 10°  
cut 7°  
cut 5°

Slope stakes - No. Side  
 Sept. 4-1934.

Finish Grade				
Rn 14+00	5.63	548.11	542.48	Subgrade
13+75	3.94	544.17	541.57	
+50	1.77	546.34	541.64	
+25	5.19	542.92	541.72	
13+00	5.02	543.09	541.79	
12+75	5.73	542.38	541.88	
+50	2.86	545.25	541.95	
+30 <sup>29</sup>	5.60	542.51	542.01	
+25			542.22	
12+00	2.91	545.20	542.10	
11+80 <sup>29</sup>	4.35	543.76	542.16	
	5.48	542.63	Grade	

C-2<sup>5</sup> out 2<sup>5</sup>  
 C-4<sup>7</sup> out 4<sup>7</sup>  
 C-1<sup>2</sup> out 1<sup>2</sup>  
 C-1<sup>2</sup> out 1<sup>2</sup>  
 Set vertical cut 1<sup>5</sup>  
 C-3<sup>3</sup> out 3<sup>3</sup>  
 Set vertical cut 1<sup>5</sup>  
 C-3<sup>1</sup> out 3<sup>1</sup>  
 C-1<sup>5</sup> out 1<sup>5</sup>

Pin 13+50  
 Rec. Elev. 542.64

# Finish Floor Grades

Slope Stake 12+00 So. Side	1.15	547.35	546.20	
12+30 <sup>29</sup>		4.34	543.01	543.01 check
11+80 <sup>29</sup>		4.19	543.16	
Vertical cut 11+00 <sup>29</sup> So. Side	4.17	559.46	555.29	
11+00 <sup>29</sup>		3.67	555.79	
11+20		9.06	550.40	
T.P.		12.33	547.13	
	10.66	557.79		
11+00 <sup>29</sup>		2.00	555.79	
T.P.	3.21	550.34	547.13	
11+40		3.91	546.43	
+60		6.33	544.01	
+80 <sup>29</sup>		7.18	543.16	



Vertical Cuts Along No. Side Wall  
Sept.-11-1934.

Slope Stake 12+00-S. Side	2.35	548.55	546.20	
12+30 <sup>29</sup>		6.04	542.51	
11+70 Slope Stake		4.69	543.86	542.39
+60		5.07	543.51	Vertical cut 15
+40		2.62	545.93	"
T.P.		2.61	545.94	
	8.07	554.01		
+20		4.11	549.90	
		3.58	550.43	check on Finish Grade
T.P.	2.68	548.62	545.94	
11+80 <sup>29</sup>		5.96	542.66	
Finish Grade Pin 14+40 ±	4.85	547.21	542.36	
		3.04	544.17	check on
14+75		5.46	541.75	c-15
15+40		5.66	541.55	c-15
T.P.		0.90	546.81	
	10.18	556.99		
T.P.		0.42	556.57	
	12.56	569.13		
15+40 Top of wall		8.20	560.93	
		0.88	568.25	check on

c-15 out 138 - 9375:1

Pin 11+12 - Elev. 550.40

Slope Stake 13+75 - No. Side  
Rec. Elev. 544.17

original Slope Stake 15+00  
Rec. Elev. 568.3

Finish Floor Grades  
Sept. 12-1934.

Finish Grade Pin-14+40	3.77	546.13	542.36	
			4.39	541.74 check on Vertical cut Sta. 14+75 Elev. 541.75
14+55 Finish Grade			3.81	542.32
14+80			3.89	542.24
15+10			3.99	542.14

Sept. 14-1934

Vertical cut 14+00 So. side	4.31	546.29		541.98
14+55			3.95	542.34
Vertical cut 14+75 So. side	4.55	546.29		541.74
14+00			3.81	542.48
13+50			3.65	542.64
14+30			3.90	542.39

Sept. 15-1934

Vertical Cut 14+75-So. side	4.19	545.93		541.74
			3.47	542.46 check on Finish grade Pin 14+00 Elev. 542.48
Set B.M.			3.64	542.29 Plug set in concrete floor Sta. 14+58 Near North Wall
15+05			3.77	542.16
+30			3.85	542.08

Vertical cuts to Bottom of Footing  
Along North Side Wall.

Sept. 12-1934.

Finish Grade  
Pin 14+80

4.55

546.79

542.24

13+00

5.12

541.67

0.15

14+25

4.89

541.90

0.15

Finish Grade  
Pin 14+00

3.52

546.00

542.48

13+75

3.93

542.07

13+25

3.78

542.22

12+75

3.62

542.38

13+50

3.36

542.64

Finish Floor Grades.

Sept. 15-1934.

Vertical cut 11+80 <sup>29</sup> So. Side	4.00	546.66	542.66
		3.64	543.02
11+80 <sup>29</sup> Finish Gr.		3.50	543.16
11+60		2.65	544.01

Finish Grade Pin 12+20<sup>29</sup>  
Elev. 543.01

Sept. 17-1934

B.M.	4.29	546.58	542.29
13+50 check.		3.95	542.63
13+83		4.04	542.54
13+59		3.97	542.61

Grade Pin 13+50 &  
542.64

Sept. 18-1934

B.M.	4.31	546.60	542.29
13+35		3.92	542.68
13+11		3.84	542.76
		3.99	542.61

check on Finish Grade Pin 13+59  
Elev. 542.61

Sept. 19-1934

B.M.	3.85	546.14	542.29
15+50		4.14	542.00

Sept. 20-1934

B.M.	4.62	546.91	542.29
12+87		4.07	542.84
12+63		4.00	542.91
		4.12	542.78

check on Finish Grade Pin 13+00  
Elev. 542.79

Finish Floor Grades

Sept. 21-1934

B.M.	5.55	547.84	542.29
Set B.M.		4.98	542.86 Steel Pin
B.M.	3.44	546.30	542.86
12+15		3.24	543.06
12+39		3.32	542.98
		3.39	542.91 check on

Set in Conc. floor, Sta. 12+88  
40' N. of E.

Grade Pin 12+63  
Elev. 542.91

Sept. 22-1934

B.M.	4.32	547.18	542.86
12+15		4.12	543.06
11+80 <sup>29</sup>		4.02	543.16
B.M.	11.01	553.87	542.86
11+60		9.86	544.01 ✓
+40		7.44	546.43
+20		3.47	550.40
T.P.		1.31	552.56
	9.69	562.25	
11+00 <sup>29</sup>		6.41	555.84
10+80 <sup>29</sup>		0.16	562.09
B.M.	3.46	546.32	542.86
12+00		3.22	543.10

62.65  
62.12  
0.73

62.25  
61.57  
0.68

Finish Floor Grades

Sept. 25-1934

B.M.	3.56	546.42	542.86
11+91		3.29	543.13
11+80 <sup>29</sup>		3.26	543.16
11+60		2.41	544.01

B.M.	0.38	582.42	582.04
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	4.41	578.01	542.01	cut 36 <sup>00</sup> cut 26 <sup>00</sup>
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T.P.	11.65	570.77
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	0.45	571.22
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	11.05	560.17
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	2.92	568.30	check on slope stake 15+00 - cut 27 <sup>1</sup>
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Elev. 568.3

Sept. 26-1934

B.M.	0.60	582.64	582.04
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T.P.	11.28	571.36
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	3.43	574.79
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15+00 top of wall	10.84	563.95
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	8.93	565.86	= check on Top of Wall Sta. 14+75
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Elev. 565.84

Finish Floor Grades,

Sept. 27-1934

B.M. 9.52 552.38 542.86

11+40 5.95 546.43

11+20 1.98 550.40

Sept. 28-1934

B.M. 6.55 549.41 542.86

11+40 2.98 546.43

11+60 5.40 544.01

T.P. 5.91 543.50

2.91 546.41

11+80<sup>29</sup> 3.25 543.16

12+04<sup>29</sup> 3.32 543.09

12+39 3.43 542.98

T.P. 2.56 552.95 550.39

11+20 2.55 550.40

T.P. 8.28 558.67 550.39

11+20 8.27 550.40

11+00<sup>29</sup> 2.83 555.84

Finish Grade

Fin 10+80<sup>29</sup> 5.18 567.30 562.12

10+75 3.52 563.78

## Finish Floor Grades

Oct. 1-1934

B.M.	8.04	550.90	542.86	
11+30			2.68	548.22
			4.47	546.43 check on Finish Grade Pin 11+40 Elev. 546.43.
	2.29	550.51	548.22	
11+70			7.12	543.39
B.M.	5.39	548.25	542.86	
T.P.			1.88	546.37 X
	2.95	549.32		
11+50			4.29	545.03
T.P.	9.70	556.07	546.37	
Set B.M.			0.41	555.66 Steel Pin Set in Conc. Floor 18"± So. of R at Sta. 11+00 <sup>29</sup>
11+10			3.10	552.97
			0.24	555.83 check on Finish Grade Pin 11+00 <sup>29</sup> Elev. 555.84

Oct. 2-1934

B.M.	2.01	557.67	555.66	
11+10			4.70	552.97
11+00 <sup>29</sup>			1.83	555.84



B.M.	5.06	547.35		542.29	
15+46			+ 3.02	550.37	Subgrade 541.03

C-9<sup>34</sup> out 934

104.385  
 478  
 626.310  
 835080  
 730695  
 417540  
 499586.10

B.M.	2.90	574.26		571.36	
15+25	Top of wall		12.20	562.06	
T.P. on 2x4"			11.99	562.27	

B.M.	0.80	582.84		582.04	
Set. B.M.	2.41	572.73	12.52	570.32	-81
15+00	Top of wall		8.78	563.95	

47.86  
 Oct. 5, 1934  
 Osborne  
 Soper  
 Isbell  
 Adams

14+75	" "		6.89	565.84	-20
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14+50			5.00	567.73	+81
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14+25			3.11	569.62	-105
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Oct. 6-1934      Simpson

B.M.	3.87	546.73		542.86	
12+65			4.33	542.40	
+95			4.42	42.31	
12+30 <sup>29</sup>			4.22	42.51	

Finish Floor Grades,

Oct. 8. 1934

Vertical cut 10+80 <sup>2</sup>			
So. Side	5.60	567.17	561.57
B.M.		11.49	535.68
T.P.		1.20	565.97
	7.69	573.66	
10+56		3.91	569.75
T.P.		0.48	573.18
	6.08	579.26	
10+36		3.22	576.04
10+56		9.51	569.75
10+39 <sup>2</sup>		4.26	578.00

Oct. 10. 1934.

Finish Grade			
Pin 10+00	2.71 <sup>1</sup> / <sub>2</sub>	590.115	587.34
T.P.		0.205	589.910
	9.00	598.91	
Vertical cut			
9+75 - So. Side		4.31	594.60
	4.30	598.94	594.64
9+75		3.75	595.19
B.M.	9.82	552.11	542.29
T.P.		0.54	551.57
	12.73	564.30	
15+50 top of Wall		4.13	560.17
T.P.		2.29	562.01
	3.53	565.54	

6584

B.M.	5.12	613.89	608.77
			10.82 603.07
Finish Grade Pin Sta. 9+50	10.82	613.86	603.04

9+29		4.23	609.63
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Oct. 16-1934

B.M.	3.42	637.32	633.90
8+50		2.87	634.45
T.P.		11.36	625.96
	4.64	630.60	

2.51+

463  
58  
4.7

8+75		4.00	626.60
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9+00		11.86	618.74
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Finish Grade Pin 8+50	11.91	646.36	634.45
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8+25		4.06	642.30
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<del>5.83</del>	<del>581.14</del>	<del>575.31</del>
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<del>13+75</del>	<del>7.72</del>	<del>73.42</del>
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14+00	10.07	581.59	571.52
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13+75		8.17	573.42
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13+25		4.40	577.19
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13+00		2.50	579.09
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+50		6.28	575.31
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Top of Wall Points

Oct. 18-1934. (South Side)

8.89

B.M.	1.40	600.66		599.26
T.P.			5.11	595.55
	3.16	598.71		
11+70			9.79	588.92
T.P.	3.85	598.29	4.27	594.44
11+50			7.85	590.44
11+40			7.10	591.19
11+30			6.34	591.95
11+20			5.58	592.71
T.P.	4.16	599.71	2.74	595.55
11+10			6.25	593.46
11+00 <sup>29</sup>			5.52	594.19
10+70			3.23	596.48

Oct. 22-1934

B.M.	3.90	603.16		599.26
10+39 <sup>29</sup>			4.36	598.80
10+23 <sup>36</sup> - & T.P.			3.25	599.91
	11.97	611.88		
10+00			4.59	607.29

Oct. 23-1934 (North side)

B.M.	13.24	647.14		633.90
8+75			0.54	646.60
T.P.	11.29	655.60	2.82	644.32
8+50			1.15	654.45

617.69  
 21.05  
 638.74  
 8.89  
 647.63  
 1.00  
 646.60

Finish Floor Grades,

Oct. 19-1934

Finish Grade Pin

Sta. 8+25	11.70	654.00	642.30
8+00		3.85	650.15
T.P.		0.42	653.58
	6.67	660.25	
7+80		3.82	656.43
B.M.	3.96	546.82	542.86
12+63		3.91	542.91
+87		3.98	541.84

Top of wall Points.

Oct. 23-1934.

B.M. 10.30 630.88 620.58

9+25 Top of wall +0.01 630.89

9+50 " 7.84 623.04

T.P. 10.47 620.41

0.94 621.35

9+75 6.16 615.19

Oct. 26-1934

Vertical cut  
sta. 8+50.  
So. Side. 12.35 646.25 633.90

8+75 Top of wall +0.35 646.60

9+00 " 7.51 638.74

4.51 541.74 = check

Oct. 30-1934

Vertical cut  
Sta. 8+25  
So. Side 12.35 654.10 641.75

8+50 Top of wall +0.35 654.45

T.P. 1.63 652.47

11.15 663.62

8+25 1.32 662.30

T.P. 8.38 680.03 671.65

7+75 2.03 678.00

on vertical cut sta. 8+25  
Elev. 641.75

656.95  
21.85  
678.00

## Slope stakes - So. side

29

Nov. 2-1934.

B.M.	11.14	707.50	696.36
			Subgrade
7+50		3.19	704.31 664.81
+75		3.49	704.01 656.95
8+00		2.60	704.90 649.10

cut 39<sup>5</sup> out 19<sup>75</sup>  
 cut 47<sup>5</sup> out 23<sup>5</sup>  
 cut 55<sup>8</sup> out 27<sup>9</sup>

Set B.M.

0.50 / 707.00

Nov. 23-1934.

B.M.	0.51	696.87	696.36
T.P.		12.83	684.04
	0.52	684.56	
T.P.		12.91	671.65
	0.48	672.13	
7+50		3.42	668.71 664.81
+75		11.51	660.62 656.95
8+00			649.10
T.P.		12.55	659.58
	5.07	664.65	
8+00		8.65	656.00 649.10

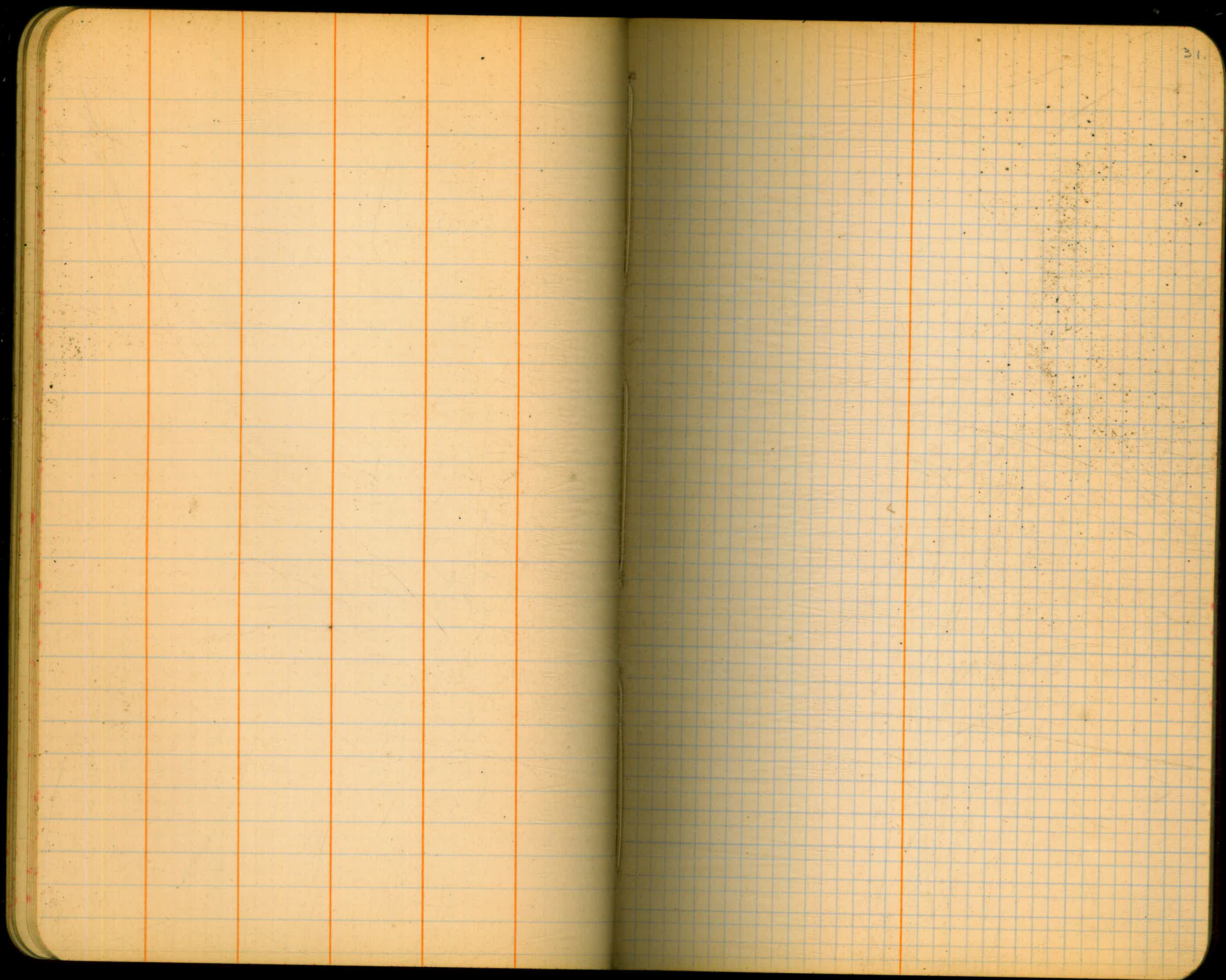
Spike in Bank 30' south of  
 Top of South slope of Spillway - sta. 7+75

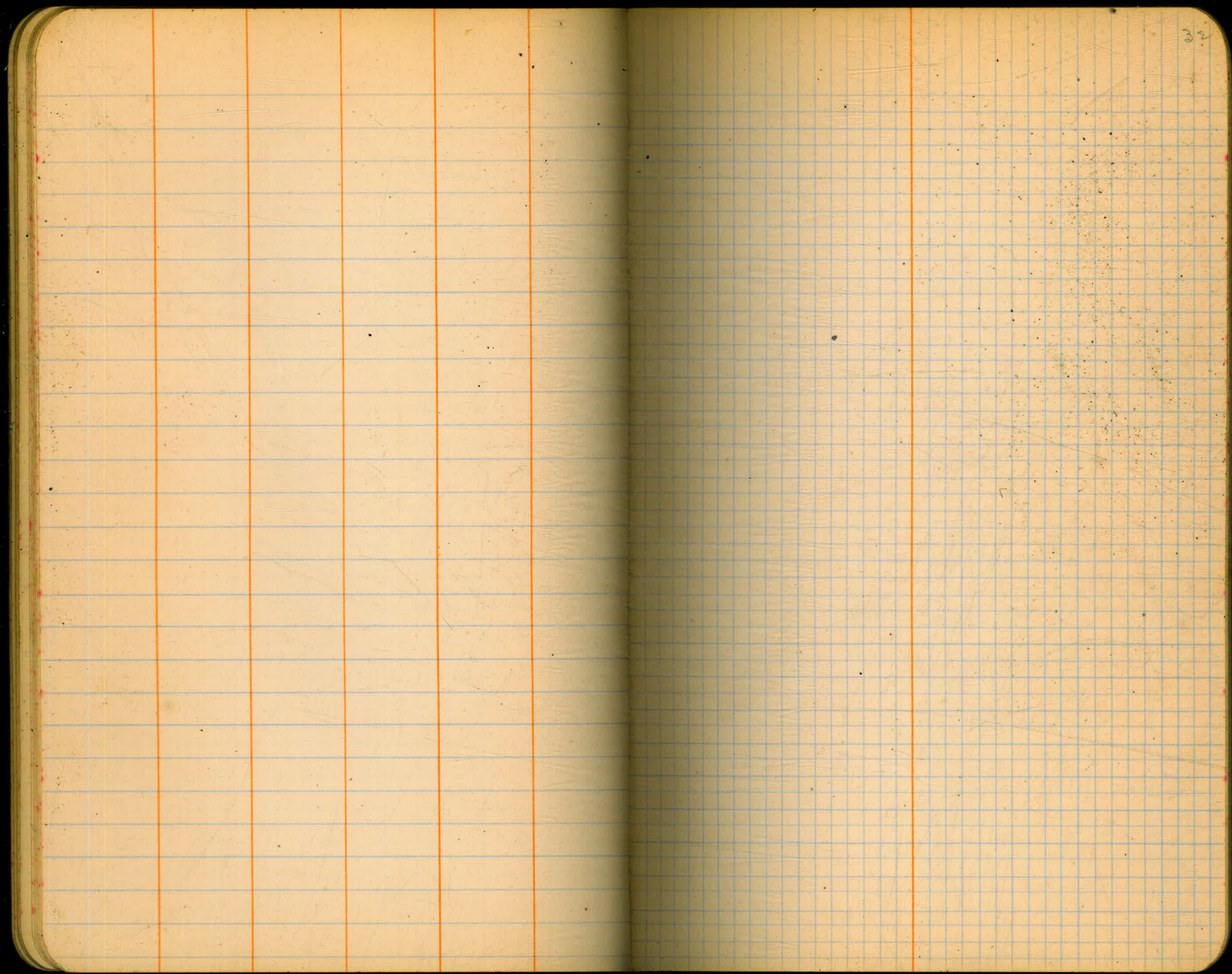
cut 3<sup>9</sup> out 1<sup>95</sup>  
 cut 3<sup>67</sup> out 1<sup>83</sup>

cut 6<sup>90</sup> out 3<sup>45</sup>

B.M. 0.16 671.81 671.65  
7+50 5.95 665.86  
7+70 12.23 659.58  
T.P. 12.23 659.58  
0.08 659.66  
7+90 6.37 653.29  
12.91 646.75

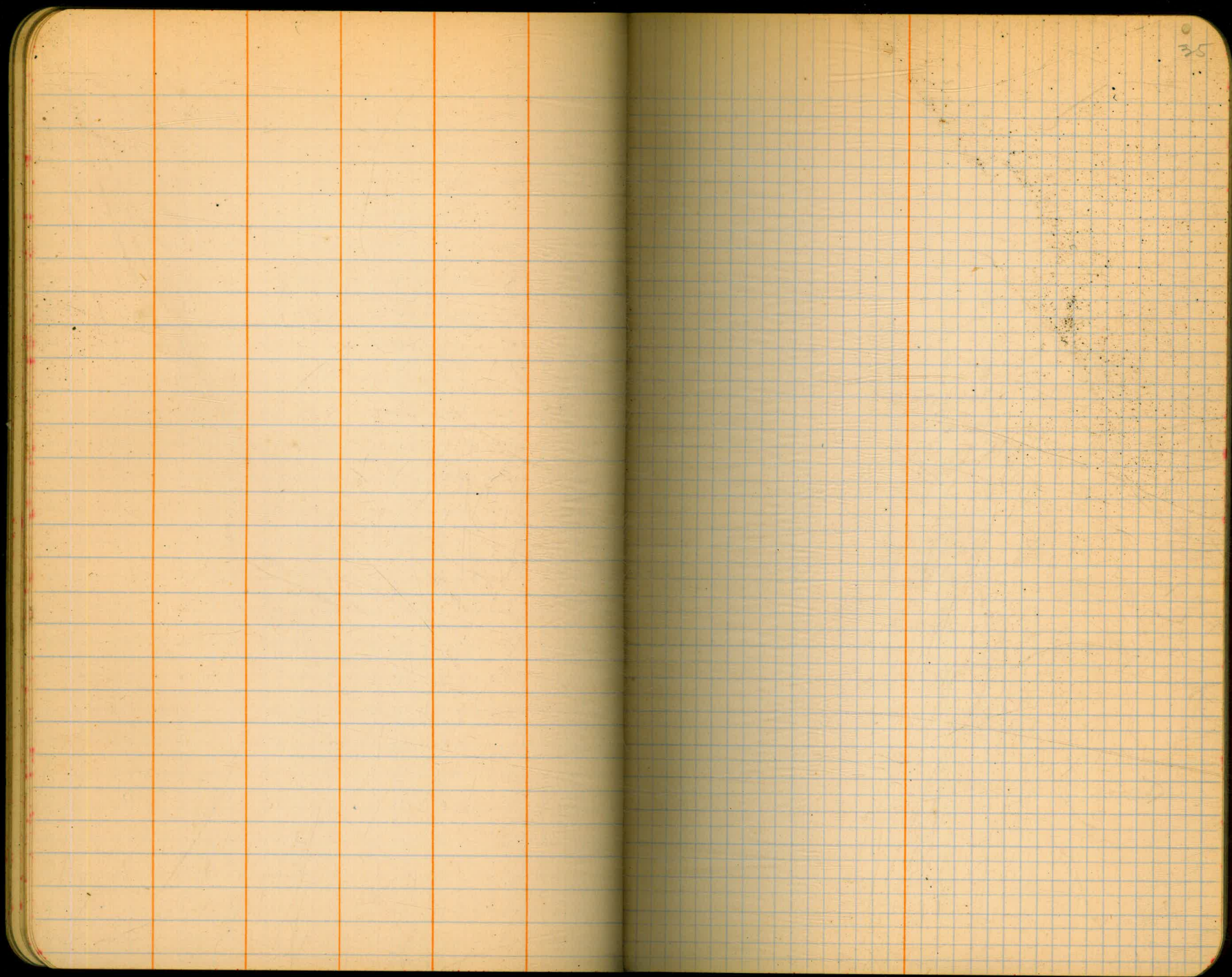


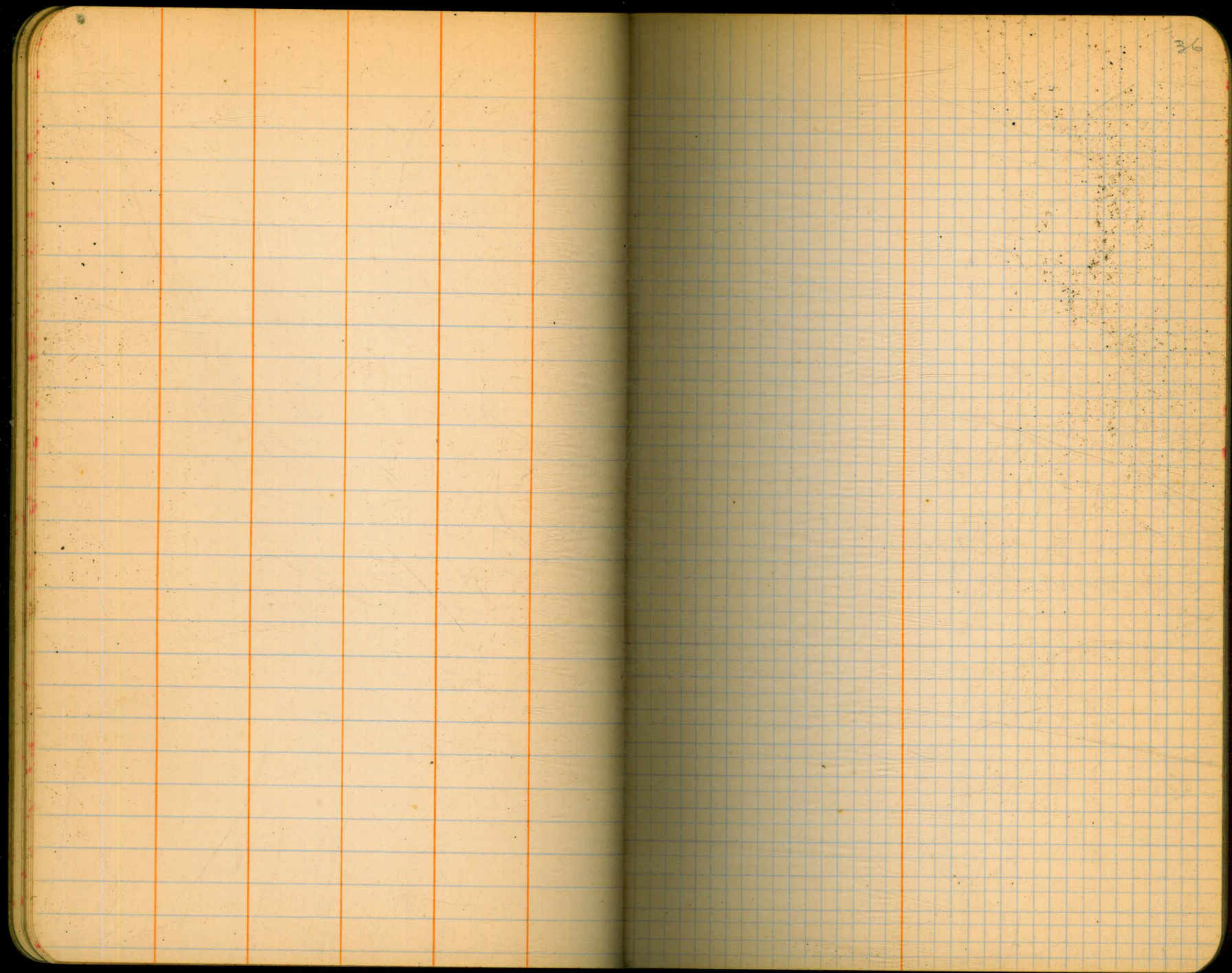




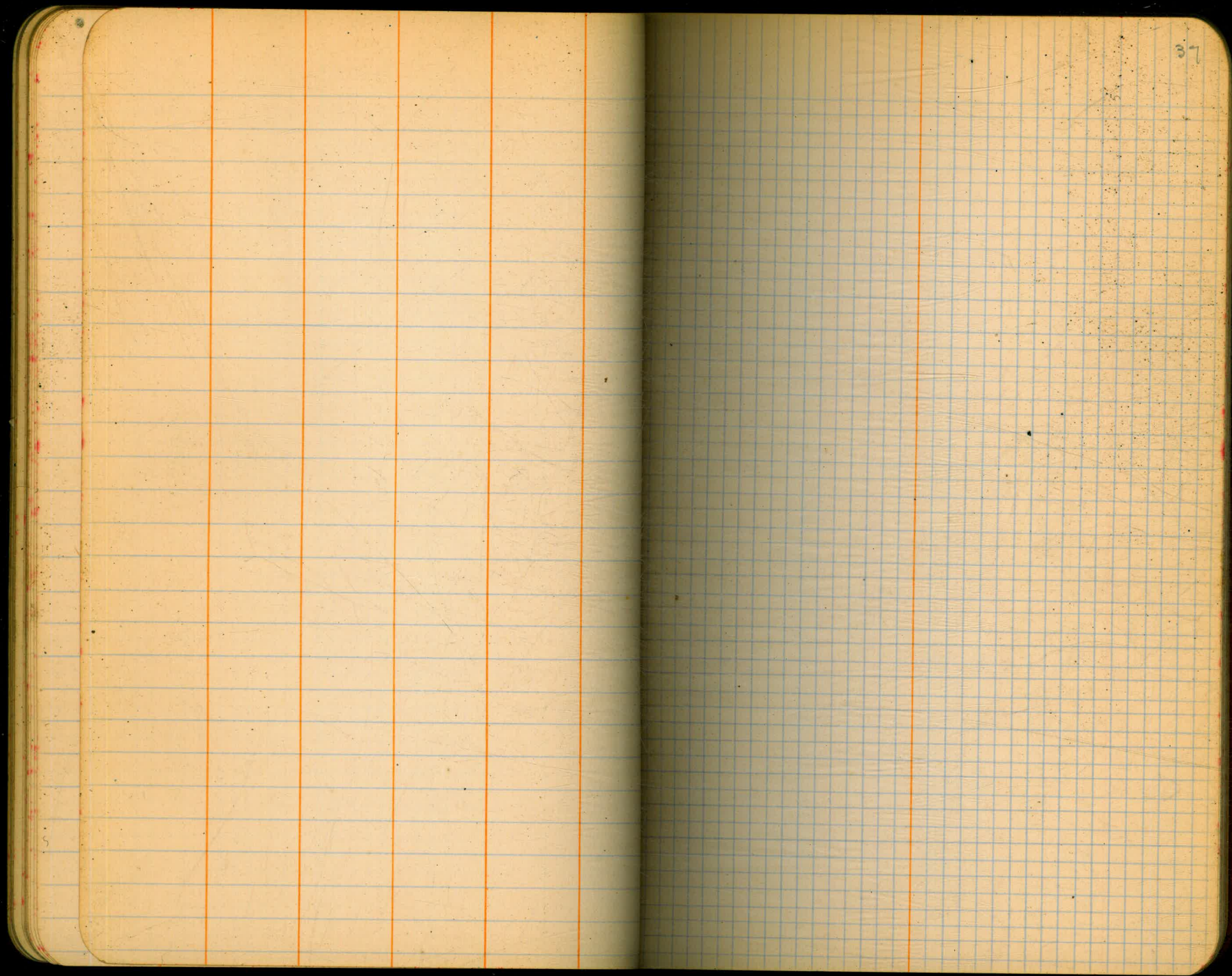








36

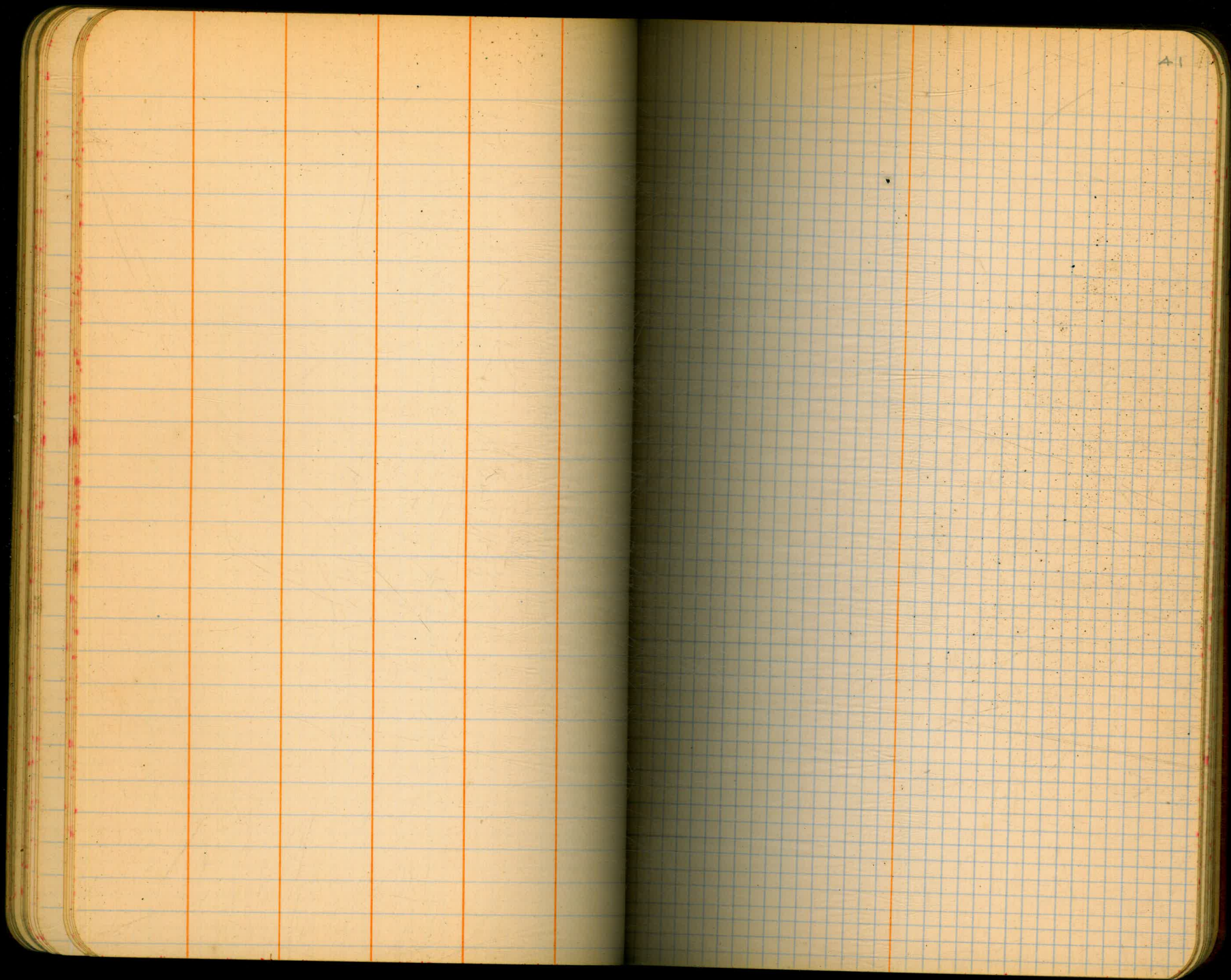


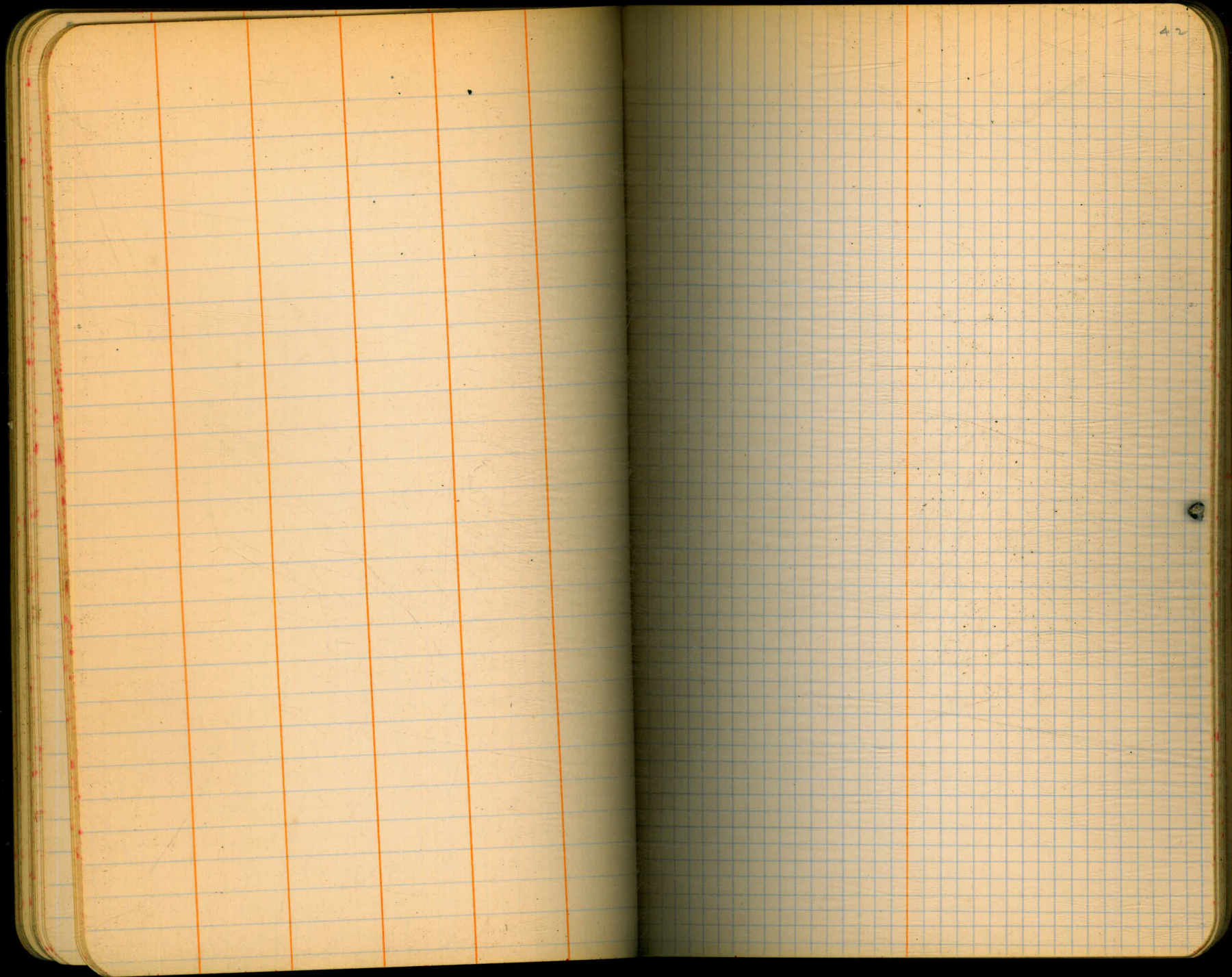












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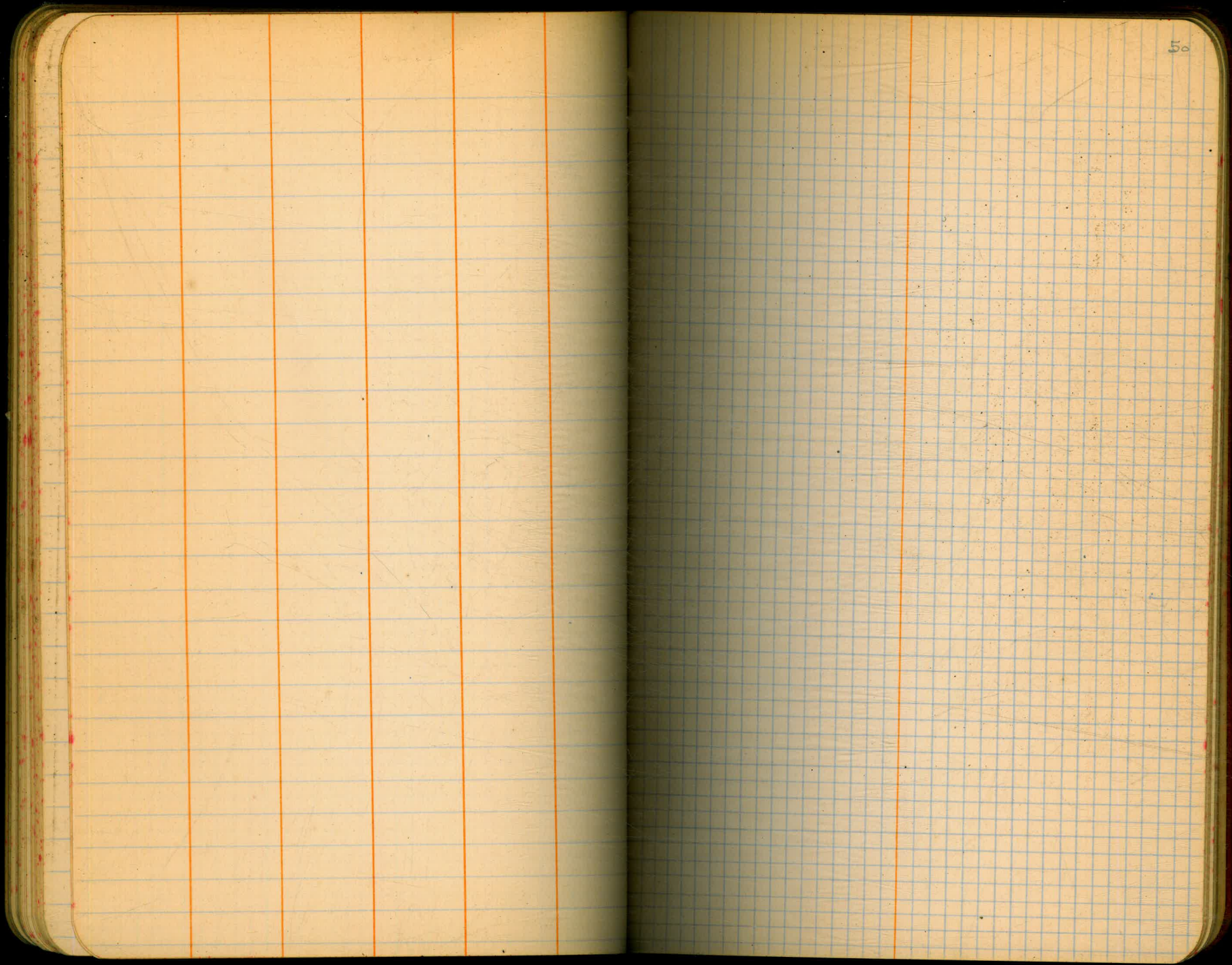


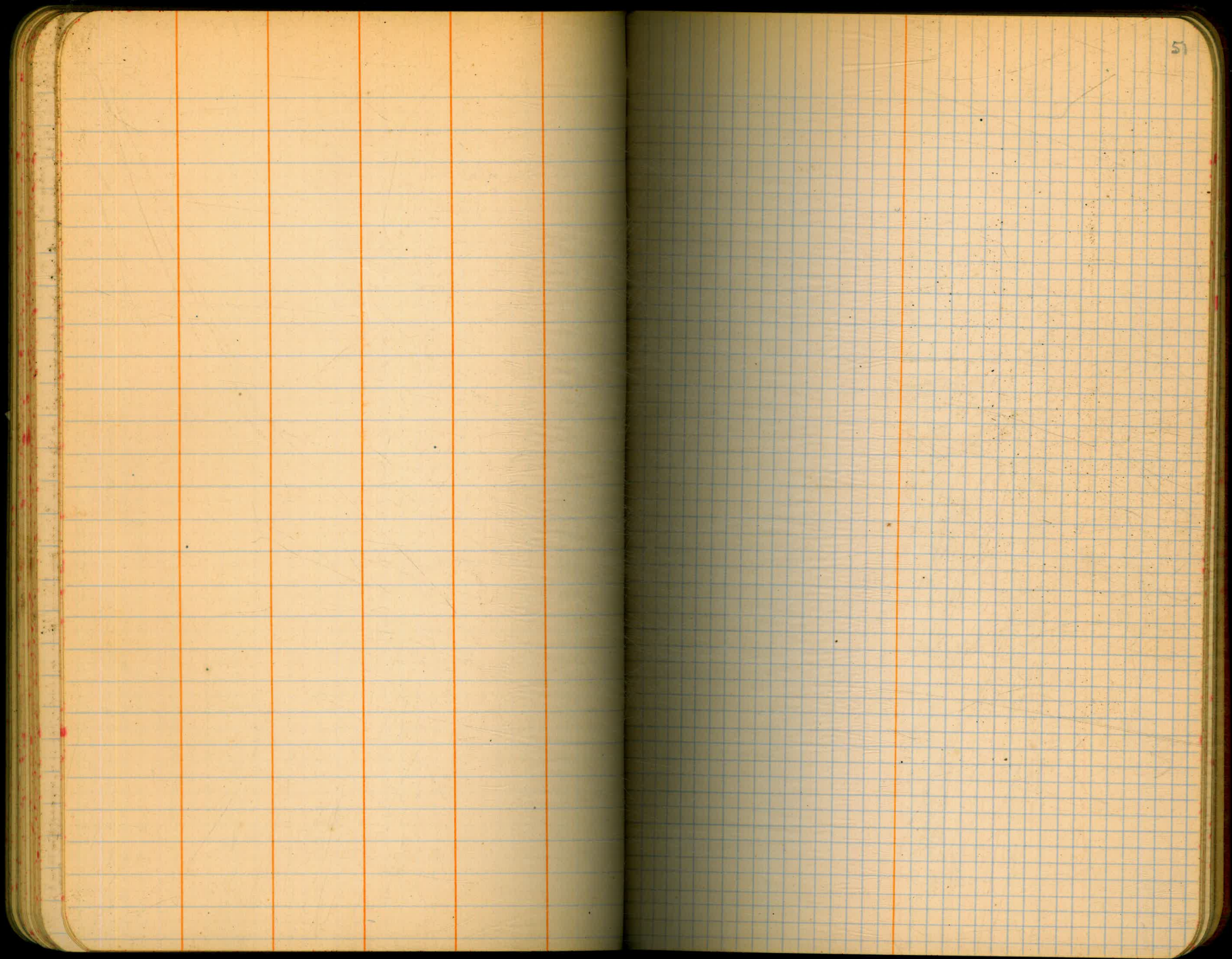


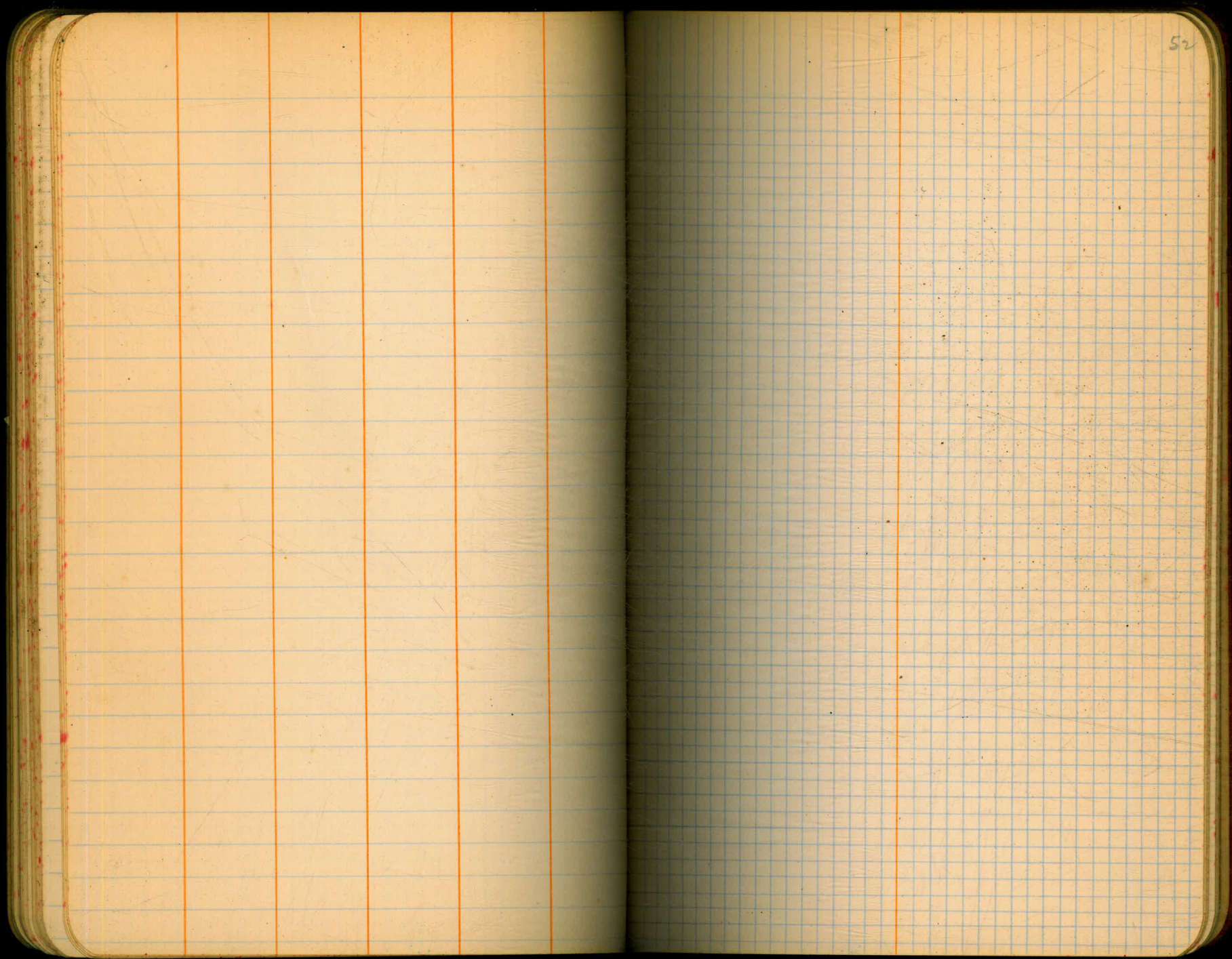




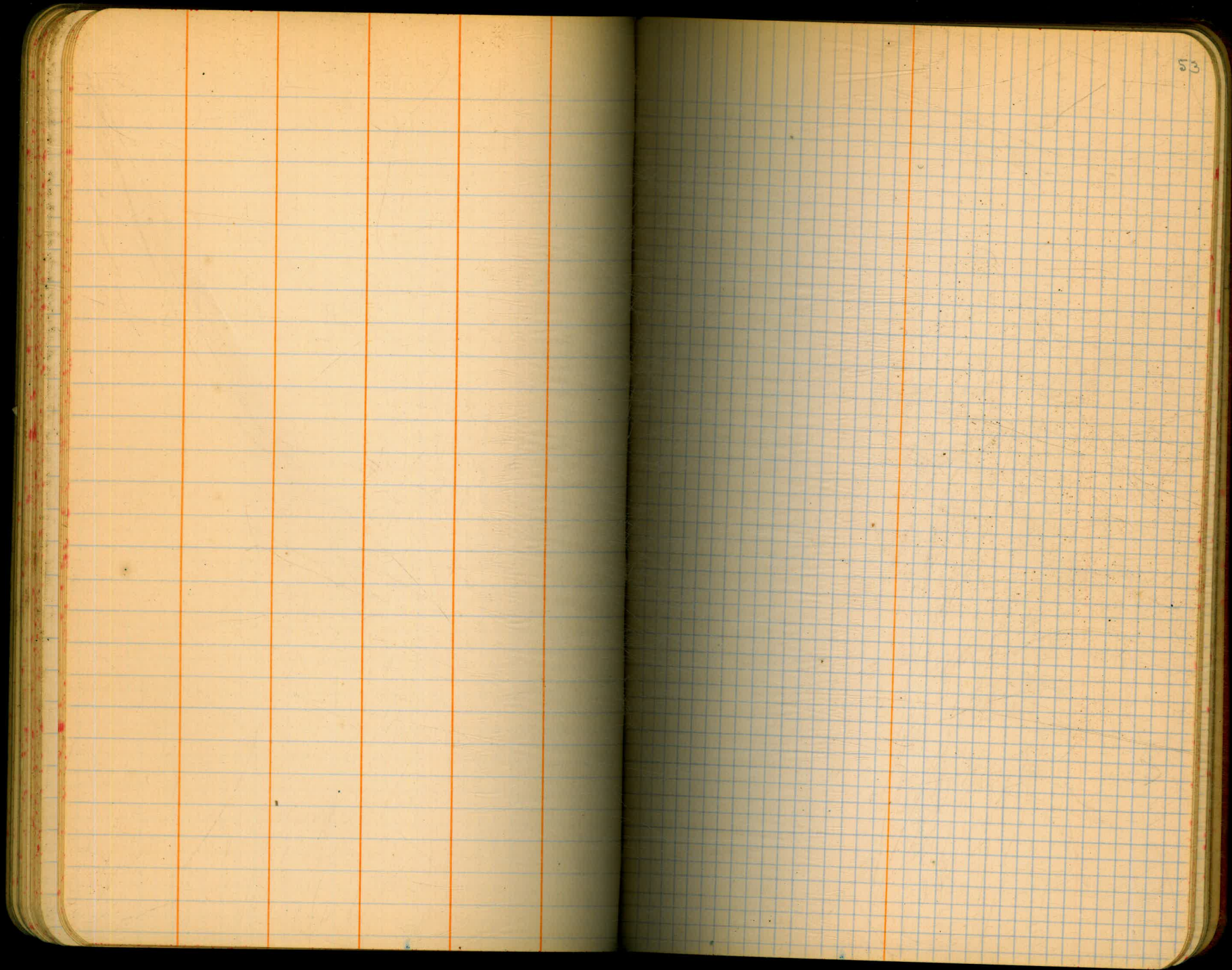








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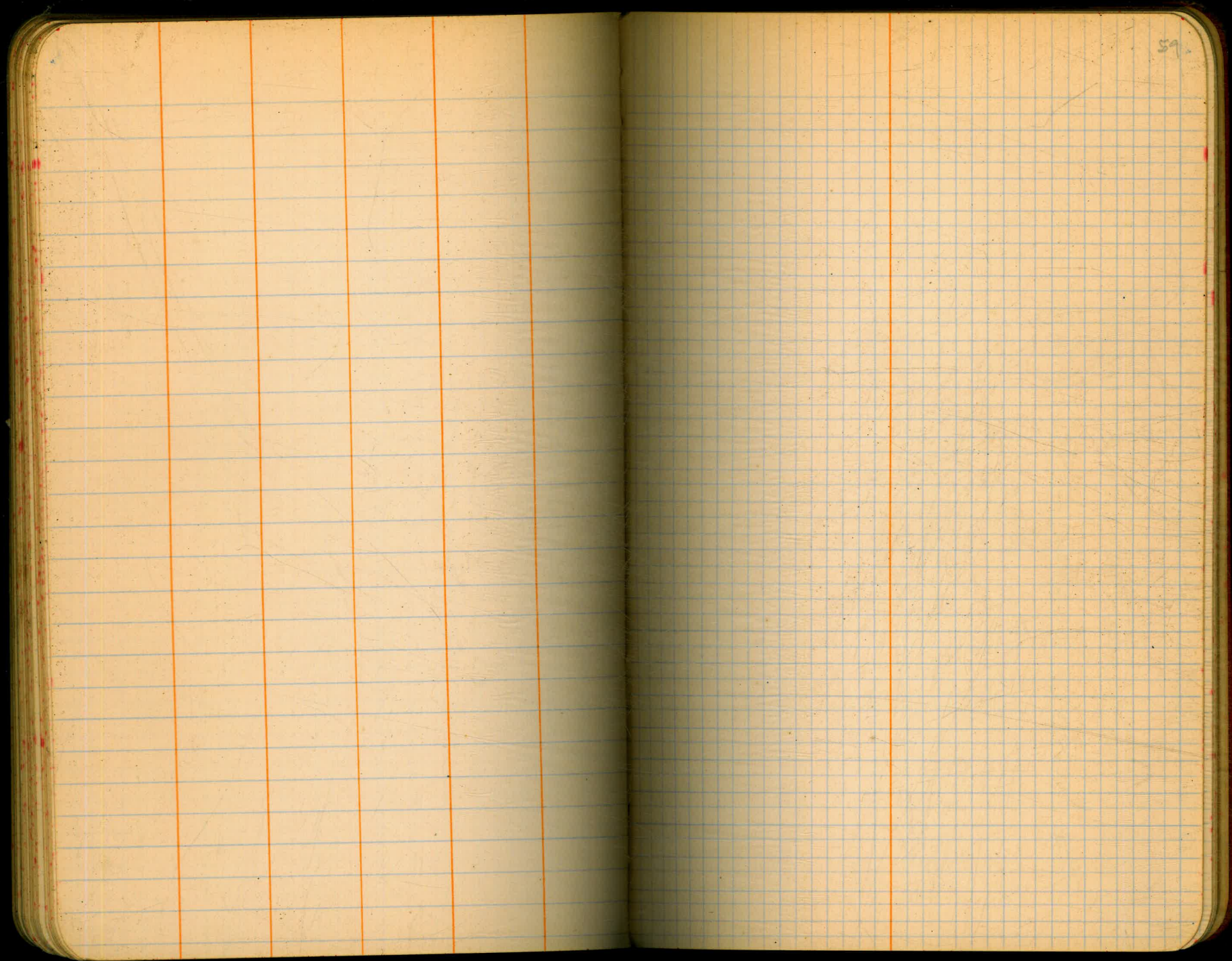


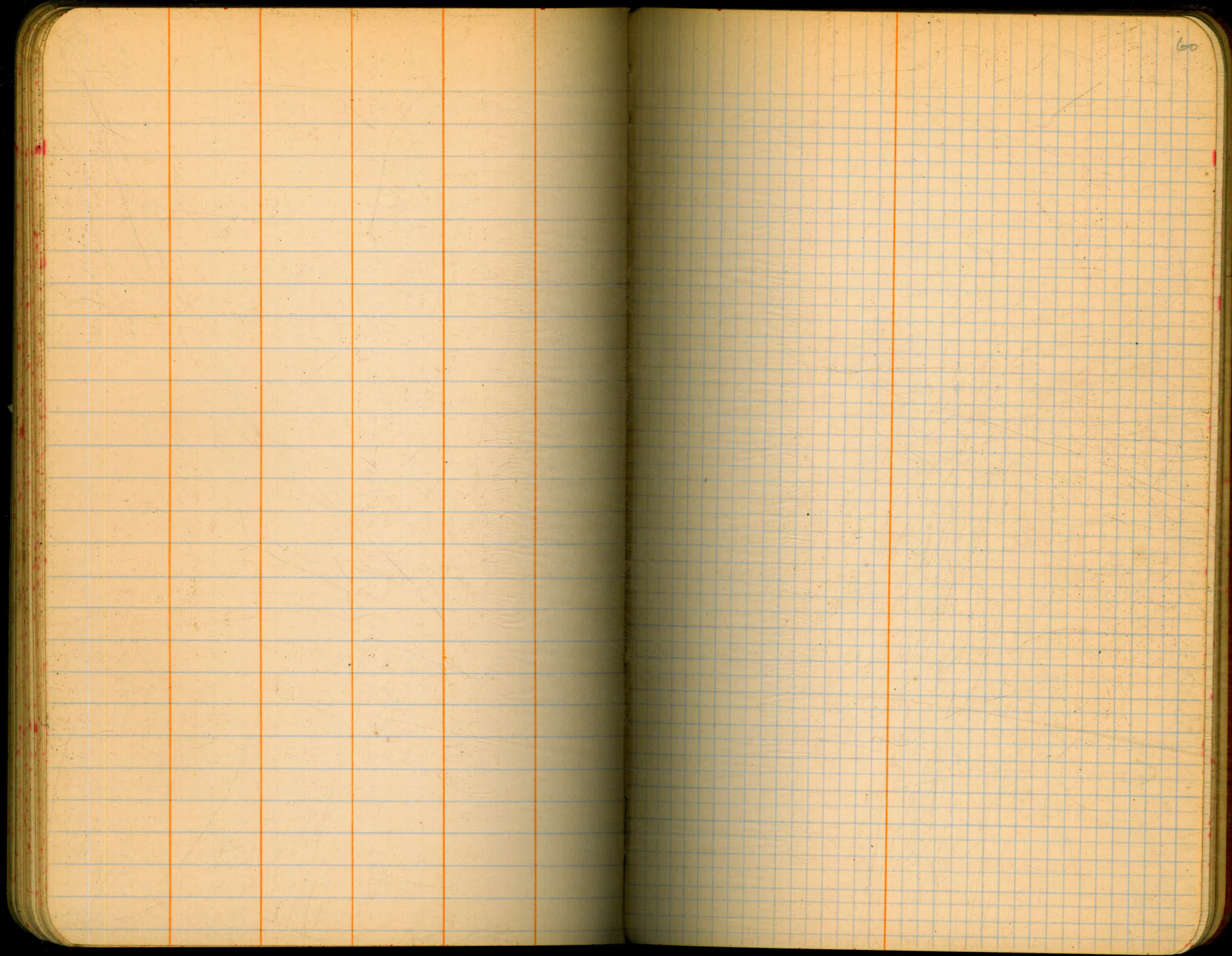


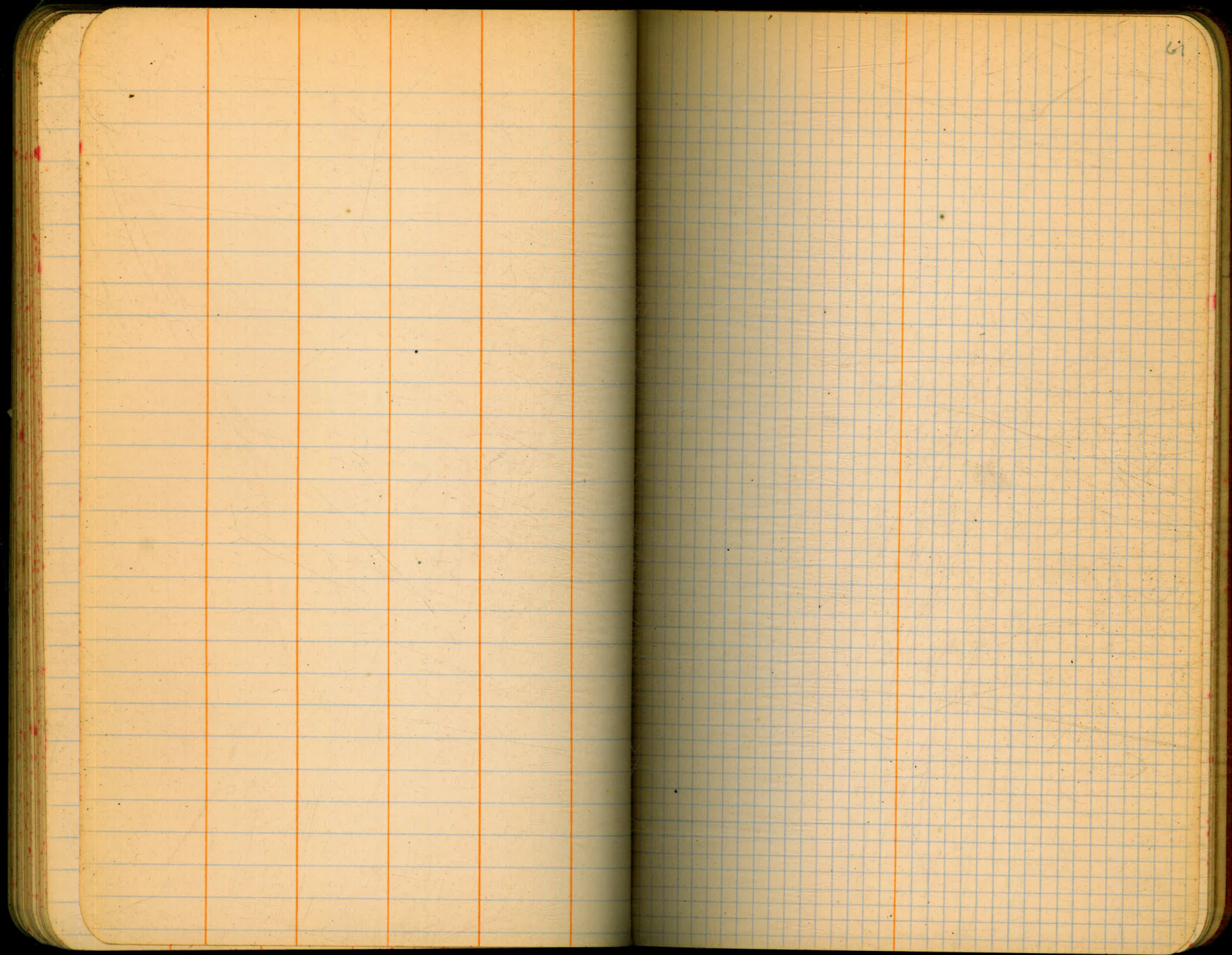


























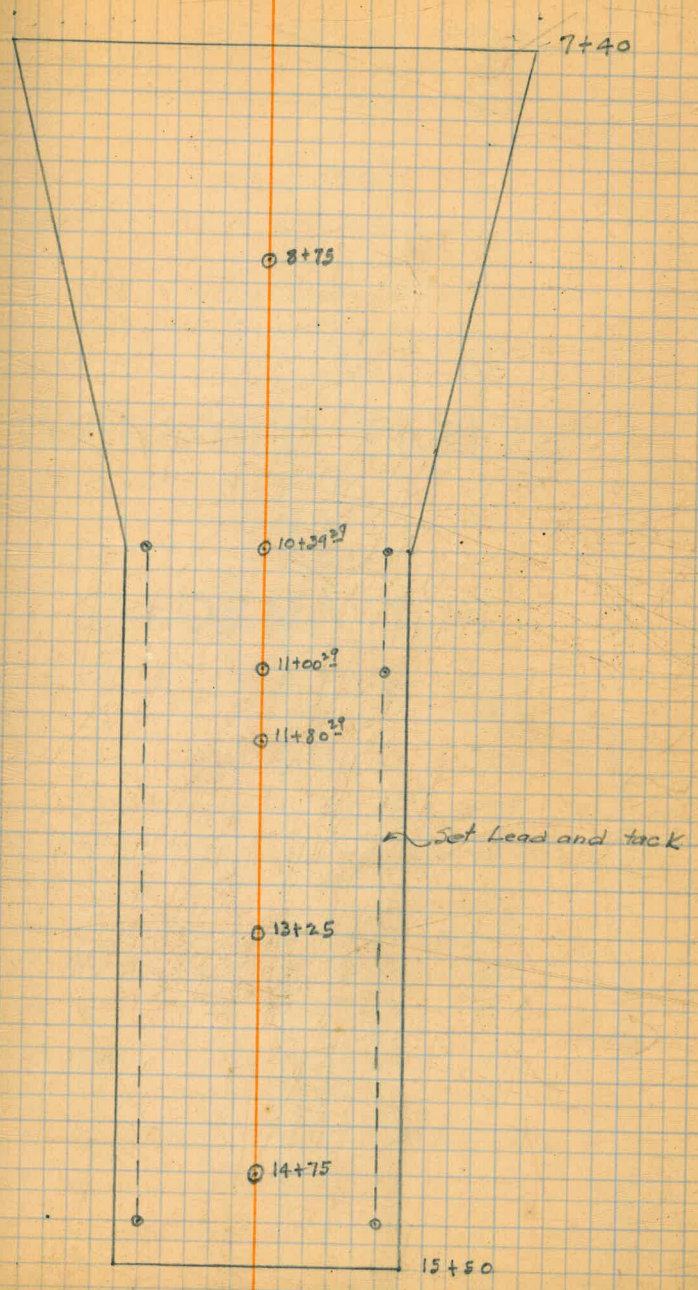












14+70 to 15+50

DIRECTIONS FOR USE OF TABLES

TABLE No. 1.

Distance of slope stake from side or shoulder stake for any width roadway, slope 1 1/2 to 1. If ground is nearly level, the cut or fill at side stake is located by the double entry method in left column and top row. The number in body of table in same row and column gives distance level estimate the difference in elevation between the side stake and slope stake by this amount if cut, elevate it fill. Add this amount to cut. Set up rod at this point and line of sight should cut target. If it does not make the slight adjustment necessary.

**IMPROVED TABLES  
AND  
INFORMATION**

TABLE No. 2.

To find Tangent and External for curve of any other degree, divide by degree of curve and add connection found in column of connections. Degree of curve with a given I may be found by dividing tangent (or external) opposite I by given tangent (or external). The distance from a point on the tangent to the curve is very nearly the square of the tangent length divided by twice the radius.

80.29  
39.29