

MISSION BAY

74



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UNITED STATES  
FISH AND WILDLIFE SERVICE

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BOOK No 74

**Our Leather Bound Engineers Note Books  
are carried in the following rulings:**

- |   |  |
|---|--|
| <b>No. 380 LEVEL BOOK.</b>              | Left and Right Hand Page<br>the same as Left Hand Page<br>of this Book.  |
| <b>No. 382 FIELD BOOK.</b>              | Left Hand Page as in this<br>Book, Right Hand Page 4x4<br>to the inch, Center Line Red.                                    |
| <b>No. 384 MINING TRANSIT<br/>BOOK.</b> | Left Hand Page as in this<br>Book, Right Hand Page 8x8<br>to the inch, Center Line Red.                                    |
| <b>No. 385 FIELD BOOK.</b>              | Left Hand Page as in this<br>Book, Right Hand Page 8 ver-<br>tical and 4 horizontal lines to<br>the inch, Center Line Red. |

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the same quality of book,) which can be fur-  
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**THE FREDERICK POST CO.**

*ENGINEERING and DRAFTING SUPPLIES*

**P. O. Box 803**

**CHICAGO**

**MICROFILMED**

**JAN 7 1965**

**MADE IN U.S.A.**

INDEX

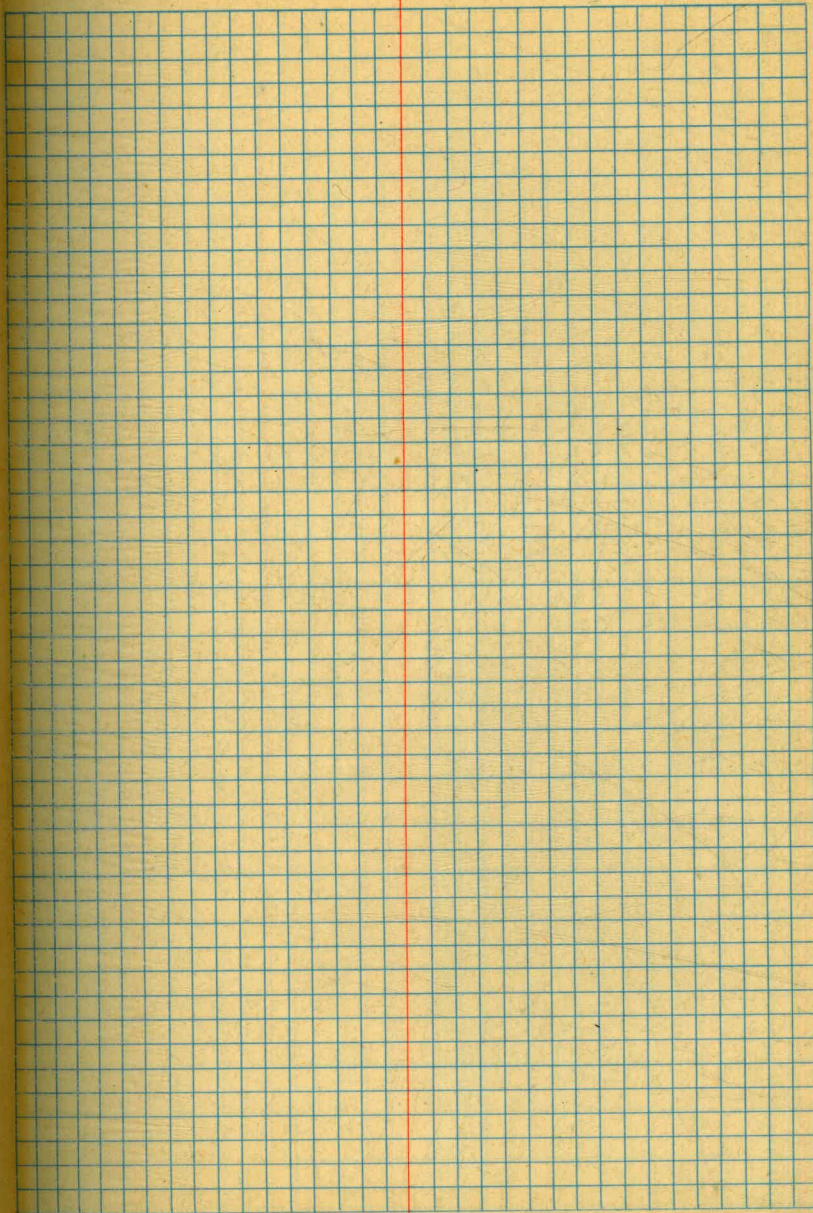
Page

Date

1-50

Deck Grades - Morena Bridge

2-20-52



2-20-52

①

## DECK GRADES MORENA BRIDGE

Sta	+ H.I.	-	With Camber Elev.	Finish Grade
Girder "B" - Pour No 1				
15+10			32.840	32.835
15+17 <sup>72</sup>			32.903	
+27 <sup>92</sup>			32.980	
+38 <sup>04</sup>			33.024	
+48 <sup>17</sup>			33.065	
15+51			33.080	33.060

## Girder "D" - Pour No 1

15+10			33.010	33.010
+19 <sup>82</sup>			33.083	
+29 <sup>95</sup>			33.156	
+40 <sup>07</sup>			33.200	
+50 <sup>20</sup>			33.242	
15+51			33.250	33.230

-2-20-52

DECK GRADES - MORENA BRIDGE

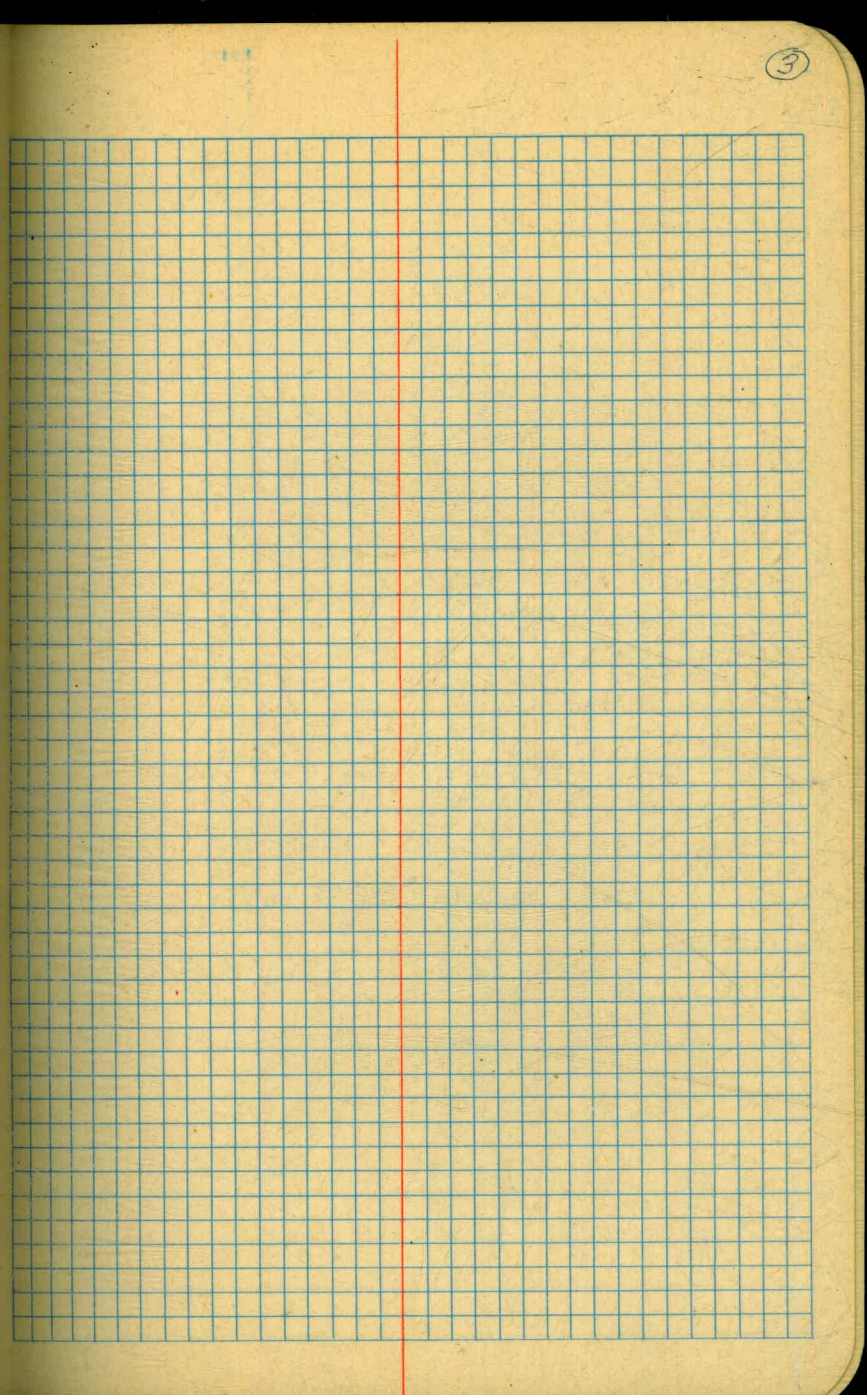
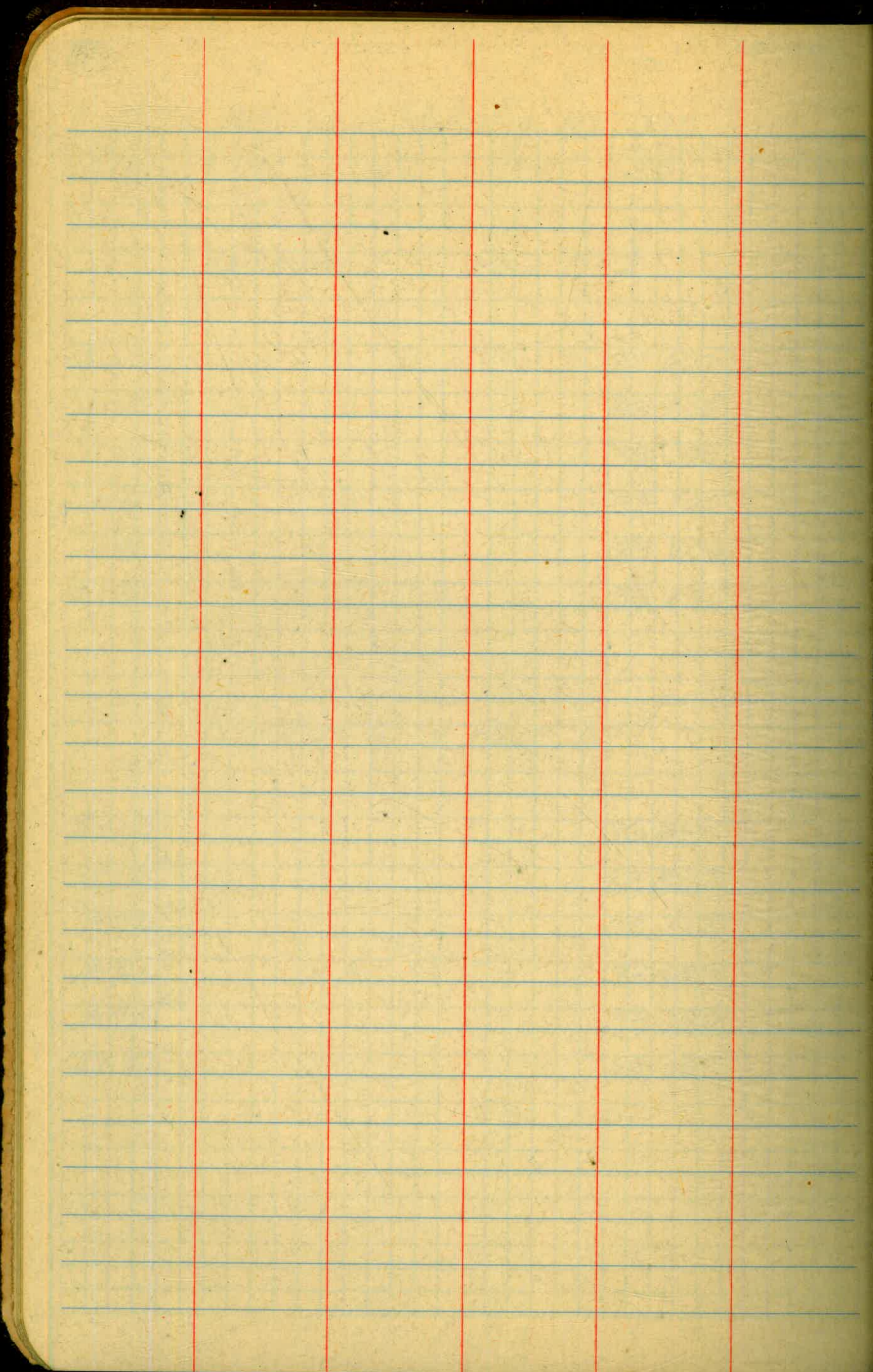
Sta + H.I. - with Camber Elev. Finish Grade

Girder "E" - Pour No 1

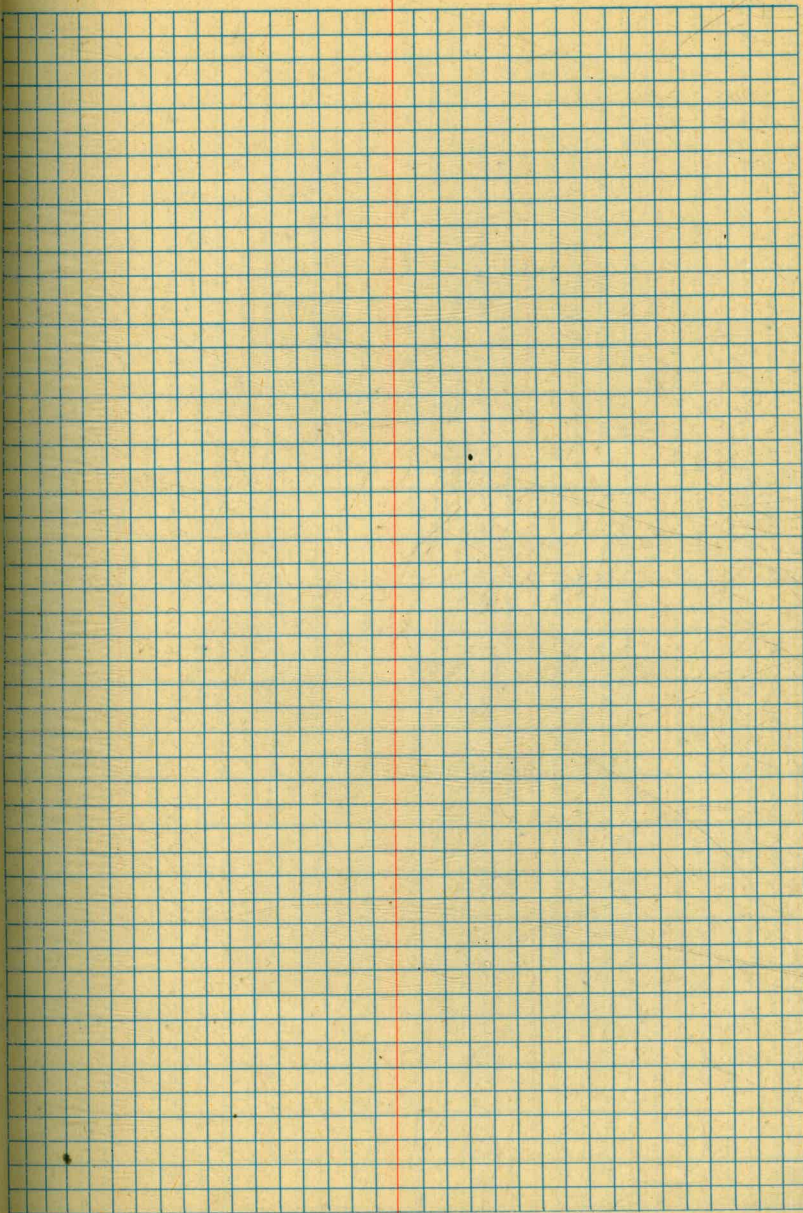
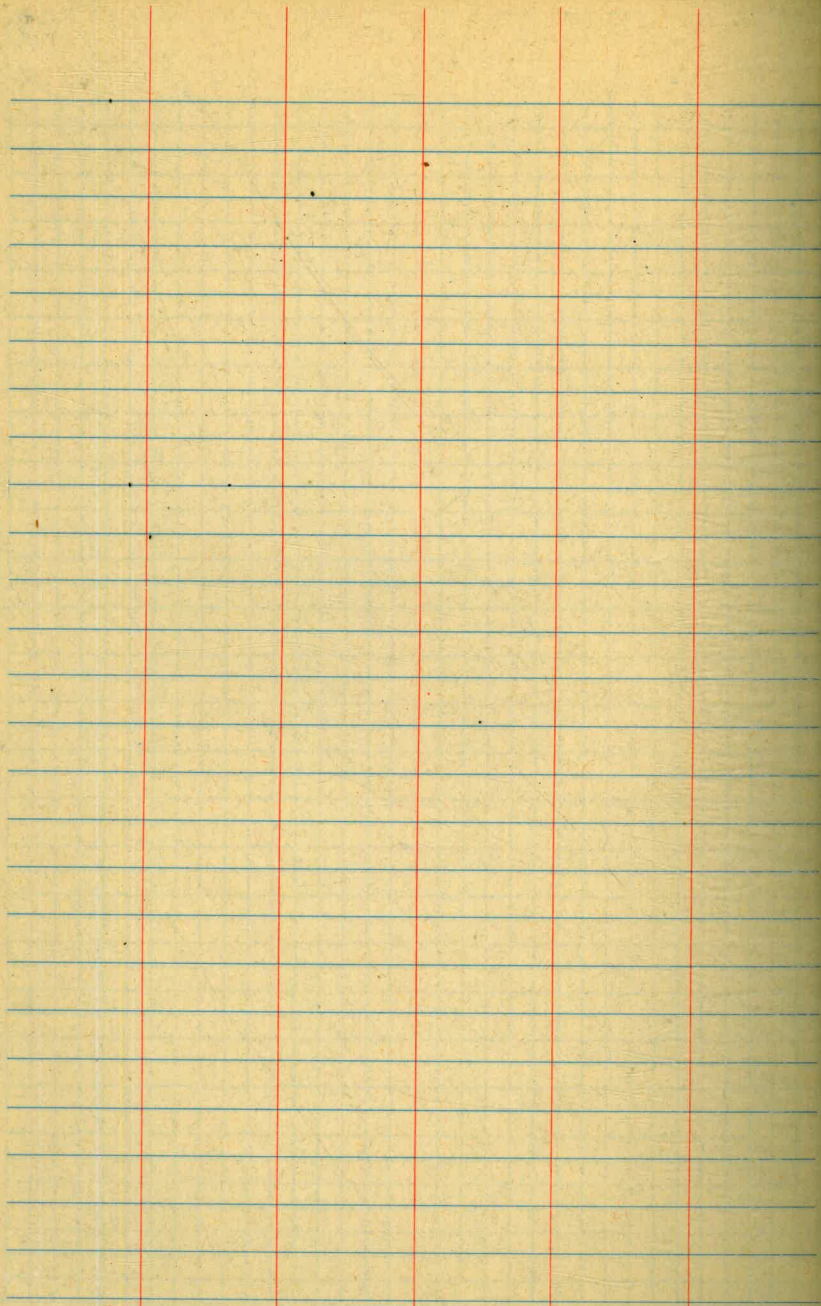
15+10	33.000	33.000
+10 <sup>80</sup>	33.005	
+20 <sup>92</sup>	33.090	
+31 <sup>05</sup>	33.160	
+41 <sup>17</sup>	33.206	
15+51	33.250	33.227

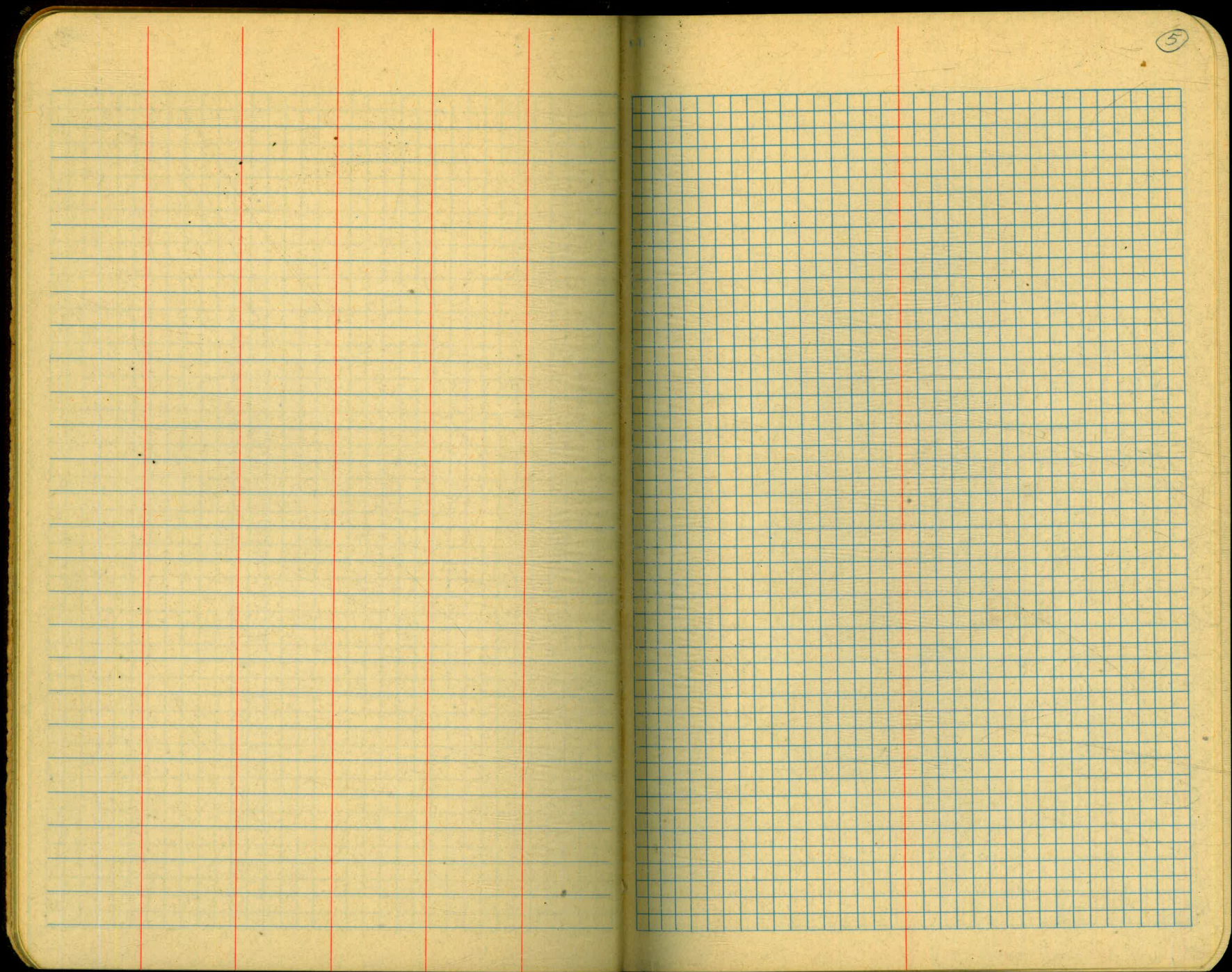
Girder "G" - Pour No 1

15+10	32.840	32.840
+12 <sup>83</sup>	32.853	
+22 <sup>96</sup>	32.933	
+33 <sup>08</sup>	33.004	
+43 <sup>20</sup>	33.050	
15+51	33.085	33.060

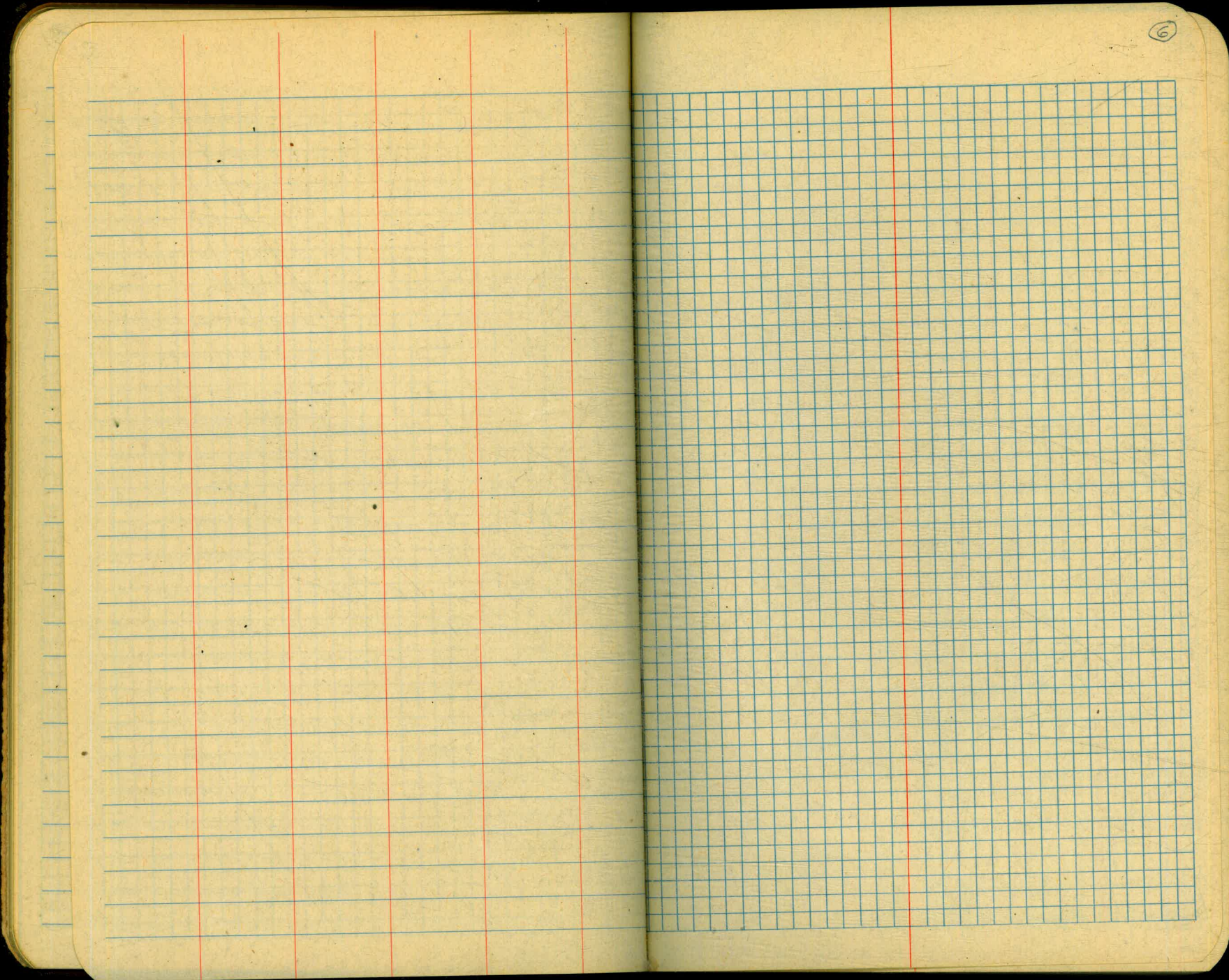


4







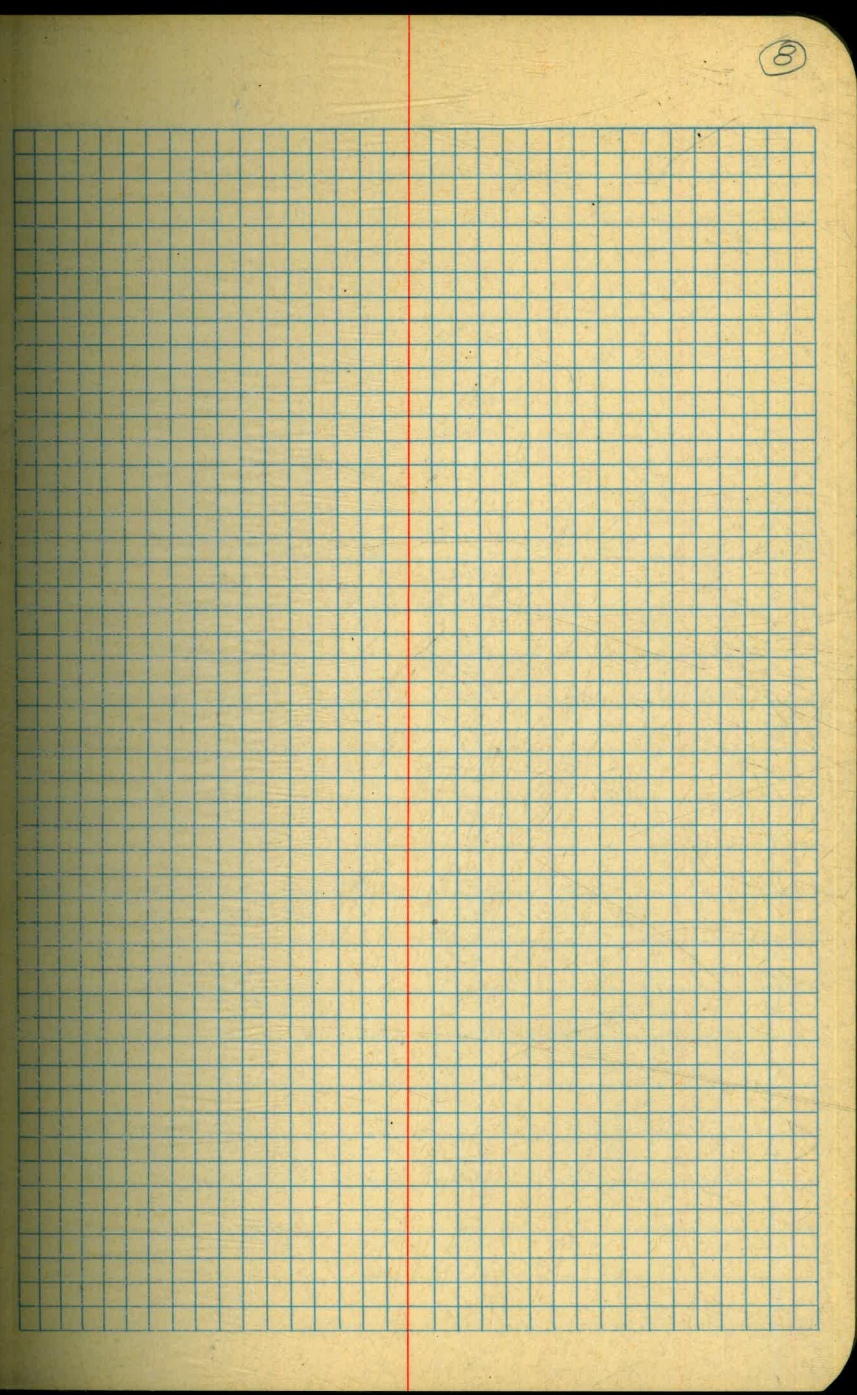
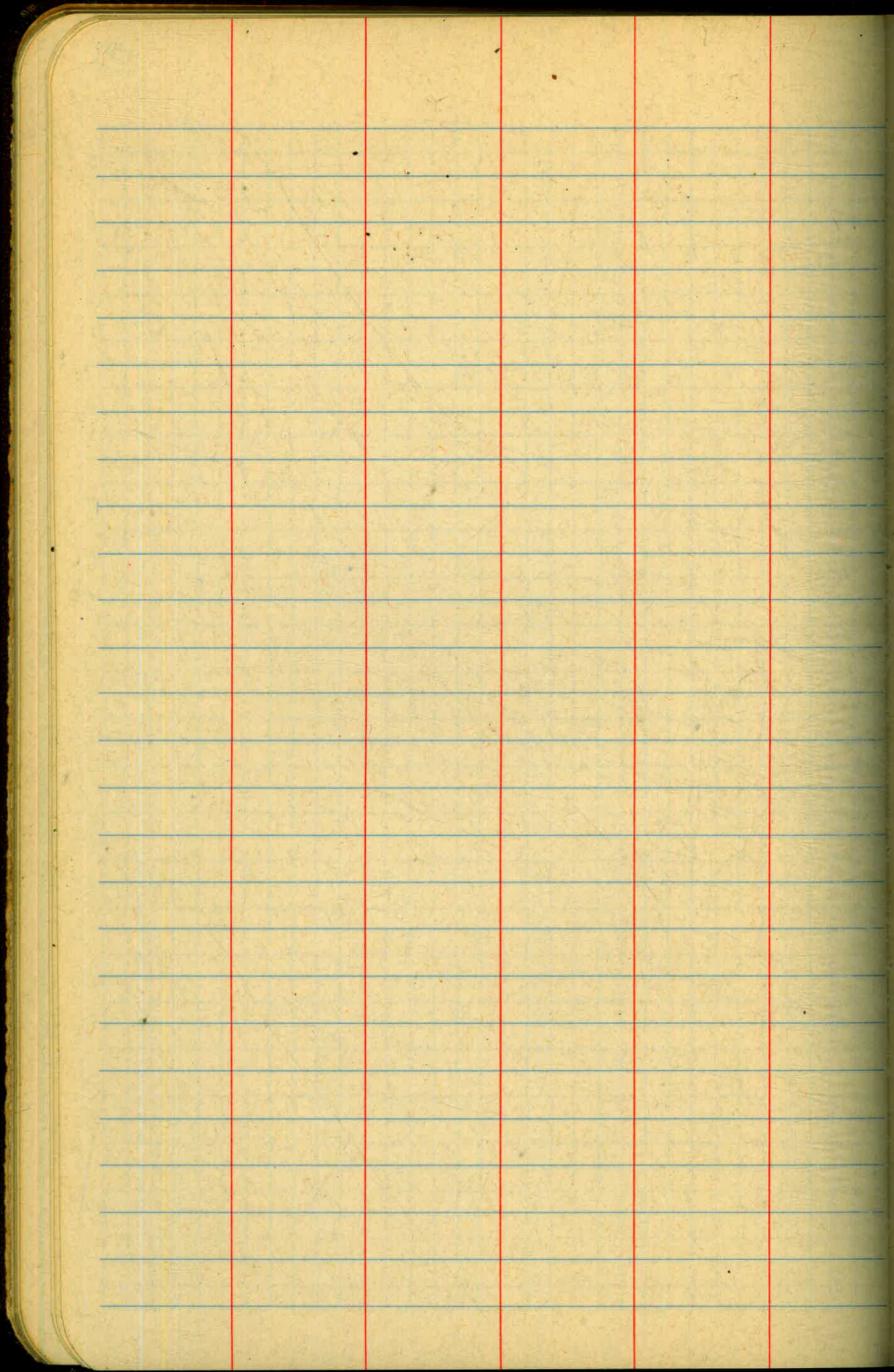


7

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8



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2-28-52

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DECK GRADES - MORENA BRIDGE *Cont'd.*

Sta	+	H.L.	-	with Camber Elev.	Finish Grade
B.M.	8.325	38.690			
	8.860	39.225		30.365	

## Girder "B" - Pour No 6

16+59 <sup>42</sup>				5.090 ✓	33.600	33.600
+69 <sup>67</sup>				5.625	33.698	
		0.02		5.008 ✓		
+79 <sup>79</sup>				5.527	33.775	
		1.01		4.915		
+89 <sup>92</sup>				5.450	33.830	
		1.02		4.860		
17+00 <sup>04</sup>				5.395	33.876	
		.02		4.814 ✓		
+10 <sup>17</sup>				5.35	33.900	
		.02		4.790 ✓		
17+20 <sup>42</sup>				5.325	33.895	
		.02		4.795 ✓		
				5.330		

## Girder "D" - Pour No 6

16+61 <sup>45</sup>				4.912 ✓	33.778	33.778
+71 <sup>70</sup>				5.447	33.875	
				4.815 ✓		
+81 <sup>82</sup>				5.35	33.952	
				4.738 ✓		
+91 <sup>95</sup>				5.273	34.008	
				4.682 ✓		
17+02 <sup>07</sup>				5.217	34.053	
				4.637 ✓		
+12 <sup>20</sup>				5.172	34.078	
				4.612 ✓		
17+22 <sup>45</sup>				5.147	34.070	
				4.620 ✓		
				5.155		

L. Plug E. End Pier No 5

## DECK GRADES - MORENA BRIDGE Cont'd

Sta	H.I.	with Camber Elev.	Finish Grade
	38.690		
	39.225		
Girder "E" - Pour No 6			
16+62 <sup>55</sup>	✓ 4.906	5.44	33.784 33.784
+72 <sup>80</sup>	✓ 4.810	5.345	33.880 5.22
+82 <sup>92</sup>	✓ 4.732	5.267	33.958
+93 <sup>05</sup>	✓ 4.677	5.212	34.013
17+03 <sup>17</sup>	✓ 4.632	5.167	34.058
+13 <sup>30</sup>	✓ 4.606	5.140	34.084
+23 <sup>55</sup>	✓ 4.600	5.135	34.090 Exp Joint

## Girder "G" - Pour No 6

16+64 <sup>58</sup>	✓ 5.063	5.598	33.627 33.627
+74 <sup>83</sup>	✓ 4.966	5.50	33.724
+84 <sup>95</sup>	✓ 4.890	5.425	33.800
+95 <sup>08</sup>	✓ 4.834	5.37	33.856
17+05 <sup>20</sup>	✓ 4.788	5.323	33.902
+15 <sup>33</sup>	✓ 4.763	5.298	33.927
+25 <sup>58</sup>	✓ 4.790	5.315	33.910 Exp Joint

DECK GRADES - MORENA BRIDGE Cont'd.

Sta.	+	H.I.	-	with Camber Elev	Finish Grade
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BM	8.862			30.365	
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39.227

Girder "B" - Pour No 7

17+53			5.137	34.090	34.040
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+60 <sup>79</sup>			5.082	34.145	
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+70 <sup>92</sup>			5.037	34.190	
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+81 <sup>04</sup>			5.002	34.225	
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+91 <sup>17</sup>			4.967	34.260	
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17+94			4.962	34.265	34.235
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Girder "D" - Pour No 7

17+53			4.967	34.260	34.215
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+62 <sup>82</sup>			4.912	34.315	
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+72 <sup>95</sup>			4.862	34.365	
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+83 <sup>07</sup>			4.827	34.400	
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17+94			4.792	34.435	34.405
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DECK GRADES - MORENA BRIDGE *Cont'd.*

Sta. + H.I. - *with Camber* ELEV. *Finish Grade*

39.227

Girder "E" - Pour No 7

17+53	4.267	34.260	34.220
+63 <sup>22</sup>	4.897	34.330	
+74 <sup>05</sup>	4.852	34.375	
+84 <sup>17</sup>	4.817	34.410	
17+94	4.787	34.440	34.405

Girder "G" - Pour No 7

17+53	5.147	34.080	34.090
+65 <sup>25</sup>	5.067	34.160	
+76 <sup>08</sup>	5.017	34.210	
+86 <sup>20</sup>	4.982	34.245	
17+94	4.952	34.275	34.270

5.067	5.017	4.982
167	167	167
5.234	5.184	5.145

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## DECK GRADES - MORENA BRIDGE Cont'd

Sta.	+ H.I.	- Elev.	with Camber	Finish Grade
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## Girder "B" - Pour No 8

16+32		33.500		33.460
+39 <sup>29</sup>		33.520		
2 Pier #3 +49 <sup>42</sup>		33.550		
16+59 <sup>42</sup>		33.600	570	33.600

## Girder "D" - Pour No 8

16+32		33.670		33.630
+41 <sup>32</sup>		33.696		
2 Pier 3 +51 <sup>45</sup>		33.727		
16+61 <sup>45</sup>		33.778		33.778

3-6-52

(16)

## DECK GRADES - MORENA BRIDGE Cont'd

Sta + H.I. - with Camber Elev. Finish Grade

## Girder "E" - Pour No 8

16+32		33.675	33.639
+42 <sup>42</sup>		33.702	
↳ Pier #3		33.733	
+52 <sup>55</sup>			
+62 <sup>55</sup>		33.784	33.784

## Girder "G" - Pour No 8

16+32		33.510	33.460
+44 <sup>45</sup>		33.545	
↳ Pier 3		33.576	
+54 <sup>58</sup>			
+64 <sup>58</sup>		33.627	33.627

702  
15  
7702  
15  
87  
61  
017

3-6-52

(17)

## DECK GRADES - MORENA BRIDGE Cont'd.

Sta. + H.I. - Elev. with Camber Finish Grade

## Girder "B" - Pour No 9

17+20 <sup>42</sup>	Exp Joint	33.895
@ Pier #4		
+30 <sup>42</sup>		33.940
+40 <sup>54</sup>		34.010
17+53		34.090 34.090

## Girder "D" - Pour No 9

17+22 <sup>45</sup>	Exp Joint	34.070
@ Pier #4		
+32 <sup>45</sup>		34.120
+42 <sup>57</sup>		34.190
17+53		34.260 34.215

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## DECK GRADES - MORENA BRIDGE Cont'd.

Sta. + H.I. - with Camber Elev. Finish Grades

## Girder "E" - Pour No 9

Sta.	H.I.	Elev.	Exp Joint	Finish Grades
17+23 <sup>55</sup>				34.090
+ Pier #4				
+33 <sup>55</sup>			34.130	
+43 <sup>67</sup>			34.200	
17+53			34.260	34.220

## Girder "G" - Pour No 9

Sta.	H.I.	Elev.	Exp Joint	Finish Grades
17+25 <sup>58</sup>				33.910
+ Pier #4				
+35 <sup>58</sup>			33.960	
+45 <sup>70</sup>			34.030	
17+53			34.080	34.040

DECK GRADES - MORENA BRIDGE Cont'd  
 Sta + H.I. - Elev. with Camber Finish Grade  
 BM 31.215 Pier 7

Girder "B" - Pour #10

18+34	34.480	34.430
+41 <sup>79</sup>	34.530	
+51 <sup>92</sup>	34.580	
+62 <sup>04</sup>	34.620	
+75	34.665	34.640

Girder "D" - Pour #10

18+34	34.640	34.600
+43 <sup>82</sup>	34.706	
+53 <sup>95</sup>	34.757	
+64 <sup>07</sup>	34.797	
+75	34.830	34.805

3-20-52 19476.00

Light Standard = 18+41<sup>80</sup>

17.97

34  
 7.80  
 134.20

31.215  
 8.232  
 39.447  
 34.631  
 4.816

3-21-52

(20)

DECK GRADES - MORENA BRIDGE Cont'd  
 Sta + H.I. - Elev with Camber Finish  
Grade

Girder "E" - Pour N<sup>o</sup> 10

18+34		34.645	34.600
+44 <sup>92</sup>		34.712	
+55 <sup>05</sup>		34.762	
+65 <sup>12</sup>		34.802	
+75		34.835	34.800

Girder "G" - Pour N<sup>o</sup> 10

18+34	x	34.470	34.430
+46 <sup>95</sup>	x	34.555	
+57 <sup>08</sup>		34.605	
+67 <sup>20</sup>		34.646	
+75		34.675	34.640

DECK GRADES - MORENA BRIDGE Cont'd

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Sta + H.I. - Elev with Gamber Finish Grades

Girder "B" - Pour No 11

19+02	<sup>42</sup>	34.325	<sup>360</sup> 34.335	<sup>835</sup> 34.780	34.780
+12	<sup>67</sup>			34.885	
+22	<sup>79</sup>			34.965	
+32	<sup>92</sup>			35.020	
+43	<sup>04</sup>			35.075	
+53	<sup>17</sup>			35.105	
+66				Exp Joint	35.120

35.260  
~~12~~  
 35.045  
~~25~~  
 35.070

Girder "D" - Pour No 11

19+04	<sup>45</sup>	34.485	<sup>51</sup> 34.49	35.010 34.955	34.955
+14	<sup>70</sup>			35.060	
+24	<sup>82</sup>			35.140	
+34	<sup>95</sup>			35.200	
+45	<sup>07</sup>			35.250	
+55	<sup>20</sup>			35.280	
+66				Exp Joint	35.280



DECK GRADES - MORENA BRIDGE <sup>Cast</sup>  
 Sta + H.L. - ELEV <sup>with Gamber</sup> <sup>Finish</sup> <sup>Grade</sup>

Girder "E" - Pour No 11

19+05	<sup>55</sup>	34.51	<sup>535</sup> 34.51	<sup>99</sup> 34.960	34.960
+15	<sup>80</sup>			35.070	
+25	<sup>92</sup>			35.140	
+36	<sup>05</sup>			35.210	
+46	<sup>17</sup>			35.245	
+56	<sup>30</sup>			35.280	
+66				Exp Joint	35.280

Girder "G" - Pour No 11

19+07	<sup>58</sup>	34.32	<sup>35</sup> 34.32	<sup>83</sup> 34.800	34.800
+17	<sup>83</sup>			34.910	
+27	<sup>95</sup>			34.990	
+38	<sup>08</sup>			35.040	
+48	<sup>20</sup>			35.090	
+58	<sup>33</sup>			35.110	35
+66				Exp Joint	35.100

DECK GRADES - MORENA BRIDGE Cont'd  
Sta + H.I. - Elev <sup>with Camber</sup> Finish Grade

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Girder "B" - Pour No 12

17+94	34.265	34.235
18+01 <sup>29</sup>	34.278	
+11 <sup>42</sup>	34.320	
+21 <sup>54</sup>	34.390	
18+34	34.480	34.430

278  
253

Girder "D" - Pour No 12

17+94	34.435	34.405
18+03 <sup>32</sup>	34.456	
+13 <sup>45</sup>	34.497	
+23 <sup>57</sup>	34.568	
18+34	34.640	34.600

435  
37  
065

456  
45  
411  
497  
15  
482

568  
15  
553

DECK GRADES - MORENA BRIDGE Cont'd  
Sta + H.I. - ELEV. with Gamber Finish Grade

Girder "E" - Pour No 12

17+94	34.440	34.440
18+04 <sup>42</sup>	34.462	
+14 <sup>55</sup>	34.503	
+24 <sup>67</sup>	34.574	
18+34	34.645	34.600

Girder "G" - Pour No 12

17+94	34.275	34.200
18+06 <sup>45</sup>	34.305	
+16 <sup>58</sup>	34.346	
+26 <sup>70</sup>	34.417	
18+34	34.470	34.430

440  
375  
65  
462  
45  
417

574  
15  
559

503  
25  
478  
305  
45  
260

346  
15  
417  
15  
402

DECK GRADES - MORENA BRIDGE - Cont'd.

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Sta. + H.I. - Elev. <sup>with Camber</sup> <sup>Finish</sup> Grade

Girder "B" - Pour No 13

18+75		34.665	34.640
+82 <sup>29</sup>		34.684	
+92 <sup>42</sup>		34.725	
19+02 <sup>42</sup>		34.780	34.700

Girder "D" - Pour No 13

18+75		34.830	34.805
+84 <sup>32</sup>		34.860	
+94 <sup>45</sup>		34.902	
19+04 <sup>45</sup>		34.955	34.955

DECK GRADES - MORENA BRIDGE Cont'd  
 Sta + H.I. - Elev. <sup>with Camber</sup> <sup>Finish</sup> <sup>Grade</sup>

Girder "E" - Pour No 13

18+75	34.835	34.800
+85 <sup>42</sup>	34.867	
+95 <sup>55</sup>	34.908	
19+05 <sup>55</sup>	34.960	34.900

Girder "G" - Pour No 13

18+75	34.675	34.600
+87 <sup>45</sup>	34.710	
+97 <sup>58</sup>	34.750	
19+07 <sup>58</sup>	34.800	34.800

DECK GRADES - MORENA BRIDGE - Cont'd  
 Sta + H.I. - ELEV. *With Camber* *Finish Grade*  
 B.M. 32.04 *L. Plug* *End Pile*

4-3-52  
 20+37 = S. End Pile. T. Stamper  
 20+39.20 R. Sisson  
 2.8 N. = Lt. Post. A. Sherry

POURED 4-4-52

Girder "B" - Pour No 14

19+96	35.310	35.200	
20+06 <sup>37</sup>	35.370		
+16 <sup>50</sup>	35.420		
+26 <sup>62</sup>	35.450		
20+37	35.490	35.450	

40.010  
~~4.77~~  
 5.54

Set on Self  
 Reading Rod

Girder "D" - Pour No 14

19+96	35.465	35.420	
20+06 <sup>37</sup>	35.540		
+16 <sup>50</sup>	35.580		
+26 <sup>62</sup>	35.620		
20+37	35.650	35.620	

DECK GRADES - MORENA BRIDGE Cont'd.  
Sta + H.L. - with Camber Elev. Finish Grade

Girder "E" - Pour No 14

19+96	35.470	35.425
20+06 <sup>37</sup>	35.540	
+16 <sup>50</sup>	35.580	
+26 <sup>62</sup>	35.620	
20+37	35.655	35.620

Girder "G" - Pour No 14

19+96	35.290	35.245
20+06 <sup>37</sup>	35.360	
+16 <sup>50</sup>	35.410	
+26 <sup>62</sup>	35.445	
20+37	35.480	35.450

4-7-52

DECK GRADES - MORENA BRIDGE Cont'd  
 Sta + H.I. - Elev. <sup>with Camber</sup> Finish <sup>Grade</sup>

Girder "B" - Pour No 15

20+77	35.690	35.698
+87 <sup>37</sup>	.675	35.757
+97 <sup>50</sup>	.742	35.808
21+07 <sup>62</sup>	.783	35.848
+18	.833	35.885
	.890	35.892

Girder "D" - Pour No 15

20+77	35.858	35.816
+87 <sup>37</sup>	.835	35.924
+97 <sup>50</sup>	.893	35.975
21+07 <sup>62</sup>	.960	36.015
+18	.000	36.050
	.350	36.020

(29)

4-7-52

T. Stampel  
 R. Sisson  
 A. Sherry



DECK GRADES - MORENA BRIDGE *Cont'd*  
 Sta. + H.I. - *with Camber* Elev. *Finish* *Grade*

## Girder "E" - Pour No 15

20+77	35.858	35.816
+87 <sup>37</sup>	<sup>43</sup> 35.924	
+97 <sup>50</sup>	<sup>.909</sup> 35.975	
21+07 <sup>62</sup>	<sup>.60</sup> 36.015	
+18	<sup>.000</sup> 36.050	36.035

## Girder "G" - Pour No 15

20+77	35.690	35.648
+87 <sup>37</sup>	<sup>95</sup> 35.757	
+97 <sup>50</sup>	<sup>.742</sup> 35.808	
21+07 <sup>62</sup>	<sup>.783</sup> 35.848	
+18	<sup>.833</sup> 35.882	35.855
	<sup>.867</sup>	

4-8-52 CHECKED  
POURED 4-9-52

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DECK GRADES - MORENA BRIDGE Cont'd  
Sta + H.L. - ELEV. <sup>with Camber</sup> <sup>Finish</sup> Grade

4-8-52

Girder "B" - Pour No 16

19+66	EXP Joint	35.120
+76		35.165
+86 <sup>12</sup>		.150
		35.230
		.215
19+96		35.310
		.295
		35.260

Girder "D" - Pour No 16

19+66	Exp Joint	35.280
+76		35.330
+86 <sup>12</sup>		.15
		35.400
		.385
19+96		35.465
		.50
		35.420

DECK GRADES - MORENA BRIDGE *Cont'd*  
 Sta + H.I. - ELEV. *with Camber Finish*  
*Grade*

Girder "E" - Pour No 16

19+66	Exp Joint	35.280
+76		35.335 20
+86 <sup>12</sup>		35.400 385
19+96		35.470 35.425 .445

Girder "G" - Pour No 16

19+66	Exp Joint	35.100
+76		35.150 33
+86 <sup>12</sup>		35.225 18
19+96		35.290 35.245 .260

CHECKED 4-9-52

POURED 4-11-52

(33)

DECK GRADES - MORENA	BRIDGE	Cont'd.
Sta + H.L. -	with Camber Elev.	Finish Grades L. Page Foot Note
B.M.	32.48	

4-9-52

Girder "B" - Pour No 17

20+37	35.490	<del>35.450</del>
+46 <sup>87</sup>	35.507	
+57	35.548	
+67 <sup>12</sup>	35.618	
20+77	35.690	<del>35.675</del>

Girder "D" - Pour No 17

20+37	35.650	<del>35.620</del>
+46 <sup>87</sup>	35.674	
+57	35.715	
+67 <sup>12</sup>	35.785	
20+77	35.858	<del>35.816</del>

DECK GRADES - MORENA BRIDGE Cont'd

Sta + H.L. - ELEV. <sup>with Camber</sup> <sup>Finish</sup> <sub>Grade</sub>

Girder "E" - Pour No 17

20+37	35.655	35.620
+46 <sup>87</sup>	35.674	
+57	35.715	
+67 <sup>12</sup>	35.785	
20+77	35.858	35.860

Girder "G" - Pour No 17

20+37	35.480	35.480
+46 <sup>87</sup>	35.507	
+57	35.548	
+67 <sup>12</sup>	35.618	
20+77	35.690	35.690

DECK GIRDER - MORENA BRIDGE Cont'd  
Sta + H.I. - with Camber Finish  
Elev. Grade

Checked 4-11-52  
Poured 4-14-52

Girder "B" - Pour No 18

21+48	36.005	36.005
+58 <sup>25</sup>	36.125	
+68 <sup>37</sup>	.110	
+78 <sup>50</sup>	36.205	
+88 <sup>62</sup>	.190	
+98 <sup>75</sup>	36.255	
22+09	.240	
	36.310	
	.295	
	36.340	
	.25	
	Exp Joint	36.350
		250

Girder "D" - Pour No 18

21+48	36.170	36.170
+58 <sup>25</sup>	.55	
+68 <sup>37</sup>	36.270	
+78 <sup>50</sup>	.255	
+88 <sup>62</sup>	36.345	
+98 <sup>75</sup>	.330	
22+09	36.400	
	.385	
	36.450	
	.435	
	36.470	
	.455	
	Exp Joint	36.470
		750

DECK GRADES - MORENA BRIDGE Cont'd

Sta. + H.I. - with Gamber Elev. Finish Grade

Girder "E" - Pour No 18

21+48		36.175	36.175
+58 <sup>25</sup>		36.280	
+68 <sup>37</sup>		36.370	
+78 <sup>50</sup>		36.420	
+88 <sup>62</sup>		36.475	
+98 <sup>75</sup>		36.500	
22+09		Exp Joint	36.505

Girder "G" - Pour No 18

21+48		36.005	36.005
+58 <sup>25</sup>		36.120	
+68 <sup>37</sup>		36.200	
+78 <sup>50</sup>		36.255	
+88 <sup>62</sup>		36.310	
+98 <sup>75</sup>		36.340	
22+09		Exp Joint	36.350

CHECKED 4-17-52 TAS

37

DECK GRADES - MORENA BRIDGE Cont'd

Sta. + H.I. - ELEV. with Camber Finish Grade

Girder "B" - Pour No 19

22+39	36.515	36.485
+49 <sup>37</sup>	<sub>518</sub> 36.580	
+59 <sup>50</sup>	<sub>65</sub> 36.630	
+69 <sup>62</sup>	<sub>15</sub> 36.675	
22+80	<sub>69</sub> 36.720	36.670

Girder "D" - Pour No 19

22+39	36.650	36.625
+49 <sup>37</sup>	<sub>35</sub> 36.720	
+59 <sup>50</sup>	<sub>05</sub> 36.785	
+69 <sup>62</sup>	<sub>70</sub> 36.830	
22+80	<sub>15</sub> 36.870	36.830



CHECKED 9-17-52

DECK GRADES - MORENA BRIDGE Cont'd  
Sta + H.I. - ELEV. Finish Grade

Girder "E" - Pour No 19

22+39	36.670	36.695
+49 <sup>37</sup>	<sub>853</sub> 36.740	✓
+59 <sup>50</sup>	<sub>723</sub> 36.790	✓
+69 <sup>62</sup>	<sub>75</sub> 36.840	✓
22+80	<sub>25</sub> 36.880	36.840

Girder "G" - Pour No 19

22+39	36.520	36.480
+49 <sup>37</sup>	<sub>565</sub> 36.575	✓
+59 <sup>50</sup>	<sub>62</sub> 36.630	✓
+69 <sup>62</sup>	<sub>15</sub> 36.680	✓
22+80	<sub>85</sub> 36.715	36.670
	<sub>001</sub>	

CHECKED 4-21-52 TAS

DECK GRADES - MORENA BRIDGE *Cont'd*  
Sta + H.L. - <sup>with Camber</sup> Elev. *Finish Grade*

Girder "B" - Pour No 20

21+18	35.885	35.852 ✓
+27 <sup>87</sup>	35.915	
+38	35.950	
21+48	36.005	36.005 ✓

Girder "D" - Pour No 20

21+18	36.050	36.020 ✓
+27 <sup>87</sup>	36.080	
+38	36.120	
21+48	36.170	36.170 ✓

DECK GRADES - MORENA BRIDGE Cont'd  
Sta + H.I. - Elev <sup>with Camber</sup> <sup>Finish</sup> <sub>Grade</sub>

Girder "E" - Pour No 20

21+18	36.050	36.020 ✓
+27 <sup>87</sup>	36.079	
+38	36.120	
21+48	36.175	36.175 ✓

Girder "G" - Pour No 20

21+18	35.882	35.952 ✓
+27 <sup>87</sup>	35.996	
+38	36.037	
21+48	36.005	36.005 ✓

CHECKED 4-21-52

DECK GRADES - MORENA BRIDGE Cont'd

Sta + H.I. - Elev. <sup>with Camber</sup> <sup>Finish</sup> <sup>Grade</sup>

Girder "B" - Pour N<sup>o</sup> 21

22+09	Exp Joint	36.350
+19	36.400	<sub>385</sub>
+29 <sup>12</sup>	36.460	<sub>445</sub>
22+39	36.515	36.485 <sub>480</sub>

Girder "D" - Pour N<sup>o</sup> 21

22+09	Exp Joint	36.470
+19	36.526	<sub>510</sub>
+29 <sup>13</sup>	36.585	<sub>70</sub>
22+39	36.650	36.625

CHECKED  
4-21-52

DECK GRADES - MORENA BRIDGE Cont'd  
Sta + H.L. - ELEV. <sup>with Camber</sup> <sup>Finish</sup> Grade

Girder "E" - Pour No 21

22+09	Exp Joint	36.505
+19		36.550 535
+29 <sup>12</sup>		36.615 600
22+39		36.670 36.645 670

Girder "G" - Pour No 21

22+09	Exp Joint	36.345
+19		36.390 375
+29 <sup>12</sup>		36.455 240
22+39		36.520 36.480

DECK GRADES - MORENA BRIDGE *Cont'd*  
 Sta. + H.I. - Elev. *with Camber Finish Grade*

Girder "B" - Pour No 22

23+20	36.884	36.869
+30 <sup>37</sup>	.869	
	36.951	
+40 <sup>50</sup>	.936	
	37.012	
+50 <sup>62</sup>	6.997	
	37.052	
23+61	037	37.067
	37.087	
	072	

Girder "D" - Pour No 22

23+20	37.051	37.031
+30 <sup>37</sup>	036	
	37.118	
+40 <sup>50</sup>	103	
	37.179	
+50 <sup>62</sup>	169	
	37.219	
23+61	209	37.239
	37.254	
	233	

DECK GRADES - MORENA BRIDGE Cont'd  
 Sta. + H.I. - ELEV <sup>With Camber</sup> <sup>Finish</sup> Grade

Girder "E" - Pour No 22

23+20		37.051	37.031
+30 <sup>37</sup>		036	
		37.118	
+40 <sup>50</sup>		103	
		37.179	
+50 <sup>62</sup>		169	
		37.219	
23+61		204	
		37.254	37.234
		239	

Girder "G" - Pour No 22

23+20		36.884	36.864
+30 <sup>37</sup>		889	
		36.951	
+40 <sup>50</sup>		936	
		37.012	
+50 <sup>62</sup>		6.997	
		37.052	
23+61		037	
		37.087	37.067
		072	

CHECKED  
4-23-52

DECK GRADES - MORENA BRIDGE *Cont'd*

Sta + H.I. - Elev. *With Camber Finish Grade*

Girder "B" - Pour No 23

24+01	37.295	37.265
+05 <sup>21</sup>	<sup>280</sup>	
	37.319	
+13 <sup>28</sup>	<sup>309</sup>	
	37.372	
+21 <sup>35</sup>	<sup>357</sup>	
	37.413	
+29 <sup>42</sup>	<sup>388</sup>	
	37.448	
+37 <sup>49</sup>	<sup>433</sup>	
	37.471	

Girder "D" - Pour No 23

24+01	37.460	37.430
+05 <sup>34</sup>	<sup>445</sup>	
	37.486	
+13 <sup>45</sup>	<sup>471</sup>	
	37.539	
+21 <sup>57</sup>	<sup>529</sup>	
	37.580	
+29 <sup>68</sup>	<sup>565</sup>	
	37.615	
+37 <sup>80</sup>	<sup>600</sup>	
	37.638	



DECK GRADES - MORENA BRIDGE *Cont'd*  
 Sta + H.L. - *with Camber Elev. Finish Grade*

Girder "E" - Pour N<sup>o</sup> 23

24+01	37.460	37.435
+05 <sup>71</sup>	37.486	
+13 <sup>54</sup>	37.539	
+21 <sup>68</sup>	37.580	
+29 <sup>82</sup>	37.615	
+37 <sup>95</sup>	37.638	

Girder "G" - Pour N<sup>o</sup> 23

24+01	37.285	37.255
+05 <sup>59</sup>	37.303	
+13 <sup>72</sup>	37.356	
+21 <sup>90</sup>	37.397	
+30 <sup>08</sup>	37.432	
+38 <sup>26</sup>	37.455	

CHECKED 4-25-52

DECK GRADES - MORENA BRIDGE <sup>Cont'd</sup>  
with Camber <sup>Finish</sup>  
Sta + H.I. - Elev. <sup>Grade</sup>

Girder "B" - Pour N<sup>o</sup> 24

22+80	36.720	36.670
+89 <sup>87</sup>	36.732	
	.717	
23+00	36.763	
	.748	
+10 <sup>12</sup>	36.819	
	.804	
+20	36.884	36.814
	.888	
+50 <sup>57</sup>		

Girder "D" - Pour N<sup>o</sup> 24

22+80	36.870	36.820
+89 <sup>87</sup>	36.899	
	.884	
23+00	36.930	
	.915	
+10 <sup>12</sup>	36.986	
	.971	
+20	37.051	37.001

6.873

6.859

DECK GRADES - MORENA BRIDGE <sup>Cont'd</sup>  
 Sta + H.I. - Elev. <sup>with Camber Finish Grade</sup>

Girder "E" - Pour No 24

22+80	36.880	36.84
+89 <sup>87</sup>	36.899	
23+00	36.930	
+10 <sup>12</sup>	36.986	
+20	37.051	37.03

Girder "G" - Pour No 24

22+80	36.715	36.67
+89 <sup>87</sup>	36.732	
23+00	36.763	
+10 <sup>12</sup>	36.819	
+20	36.884	36.86

CHECKED 4-28-52

DECK GRADES - MORENA BRIDGE <sup>Cont'd</sup>  
with Camber <sup>Finish</sup>  
Sta + H.I. - Elev. <sup>Grade</sup>

Girder "B" - Pour No 25

23+61	37.087	37.087
+70 <sup>87</sup>	37.122	
	.107	
+81	37.168	
	.153	
+89 <sup>07</sup>	37.213	
	.198	
+97 <sup>14</sup>	37.265	
	.250	
24+01	37.295	37.295
	.292	

Girder "D" - Pour No 25

23+61	37.254	37.254
	.270	
+70 <sup>87</sup>	37.289	
	.274	
+81	37.335	
	.320	
+89 <sup>11</sup>	37.380	
	.365	
+97 <sup>23</sup>	37.432	
	.417	
24+01	37.460	37.460
	.453	

DECK GRADES - MORENA BRIDGE Center  
Sta + H.I. - ELEV. Finish Grade  
with Camber

Girder "E" - Pour No 25

23+61	37.254	37.254
+70 <sup>87</sup>	37.289	
	.274	
+81	37.335	
	325	
+89 <sup>14</sup>	37.380	
	365	
+97 <sup>27</sup>	37.432	
	417	
24+01	37.460	37.460
	460	

Girder "G" - Pour No 25

23+61	37.087	37.087
	.083	
+70 <sup>87</sup>	37.122	
	.107	
+81	37.168	
	.153	
+89 <sup>10</sup>	37.213	
	.198	
+94 <sup>36</sup>	37.265	
	.255	
24+01	37.285	37.285
	275	

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SIDEWALK GRADES MORENA BRIDGE

Sta	+	H.I.	-	Outside Elev.	Inside Elev.
14+30				32.53	32.45
+40				32.73	32.65
+50				32.91	32.83
+60				33.08	33.10
+70				33.24	33.16
+80				33.39	33.31
+90				33.52	33.44
15+00				33.63	33.55
+10				33.71	33.63
+20				33.78	33.70
+30				33.83	33.75
+40				33.88	33.80
15+50				33.93	33.85
+60				33.98	33.90
+70				34.03	33.95
+80				34.08	34.00
+90				34.125	34.045
16+00				34.18	34.10
+10				34.23	34.15
+20				34.28	34.20
+30				34.33	34.25
+40				34.38	34.30

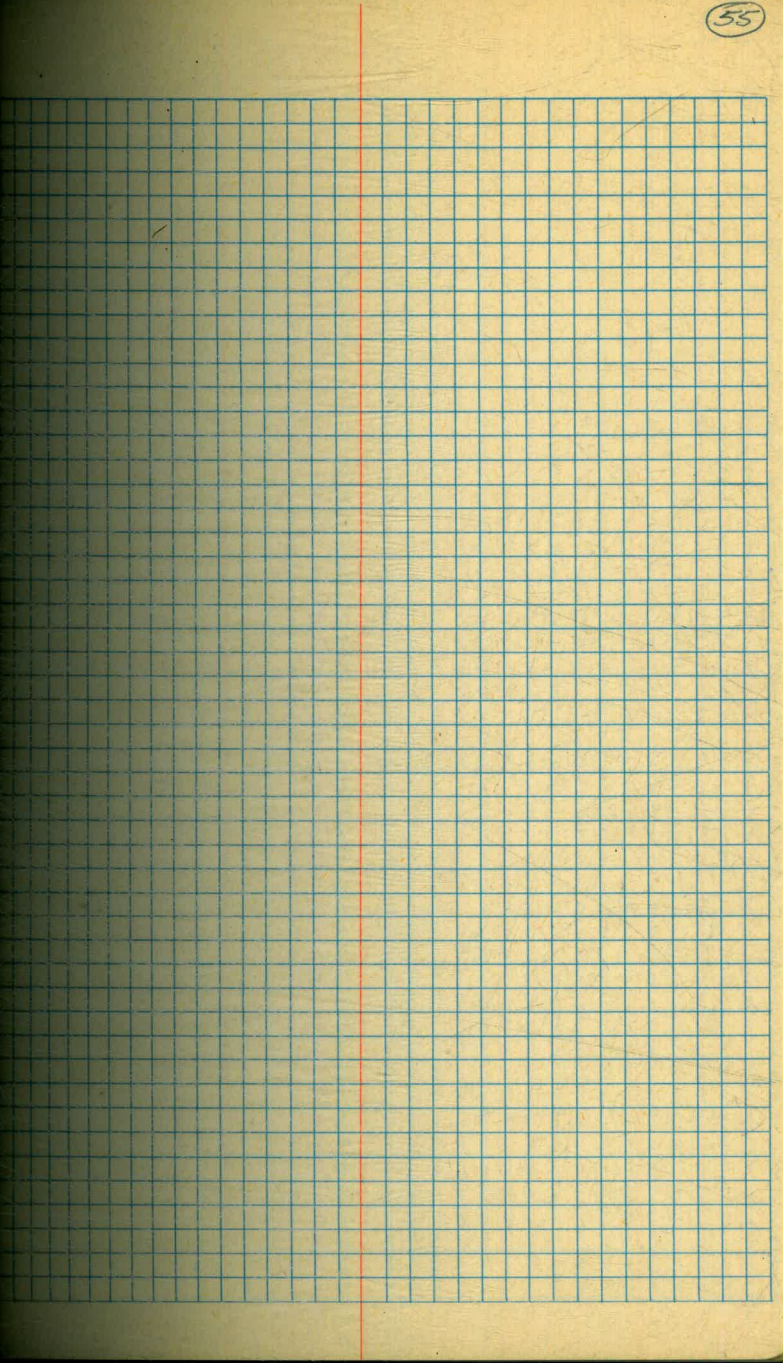
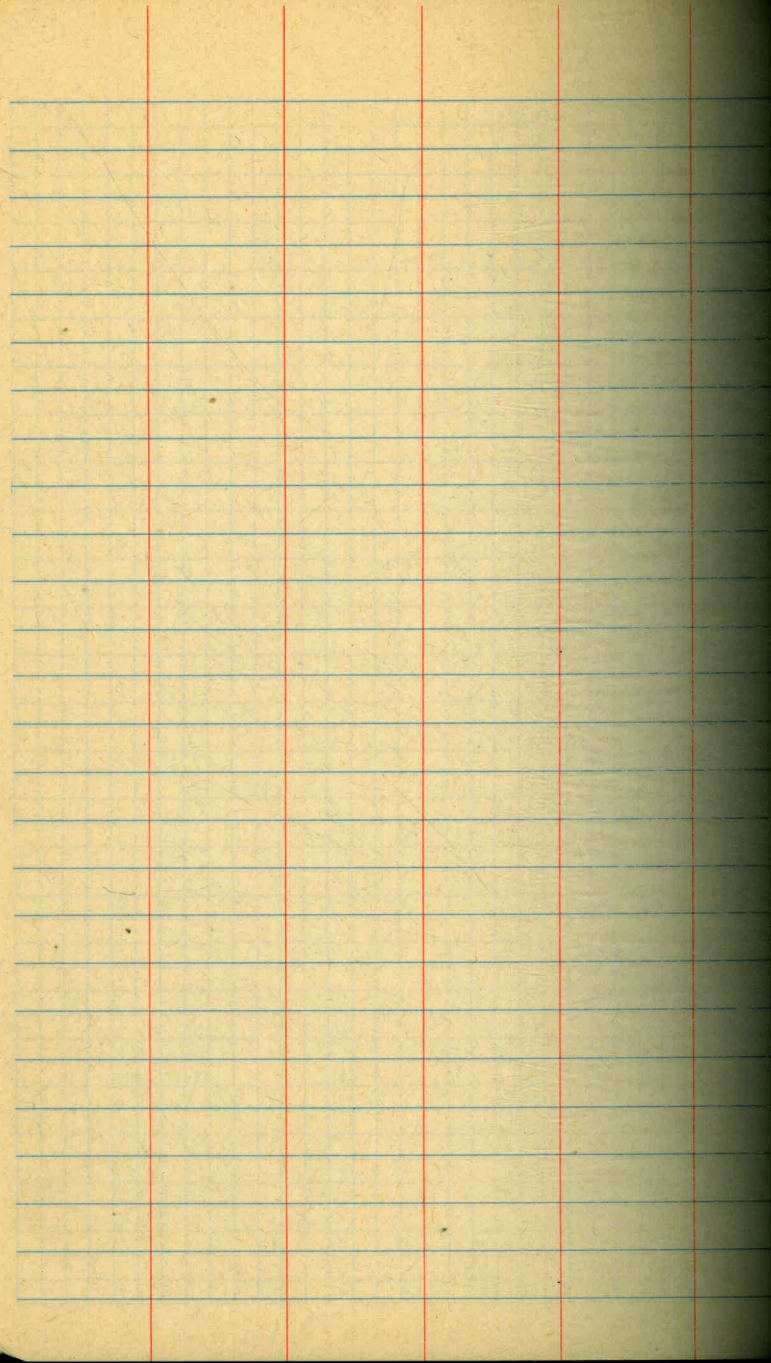
SIDEWALK GRADES - MORENA BRIDGE

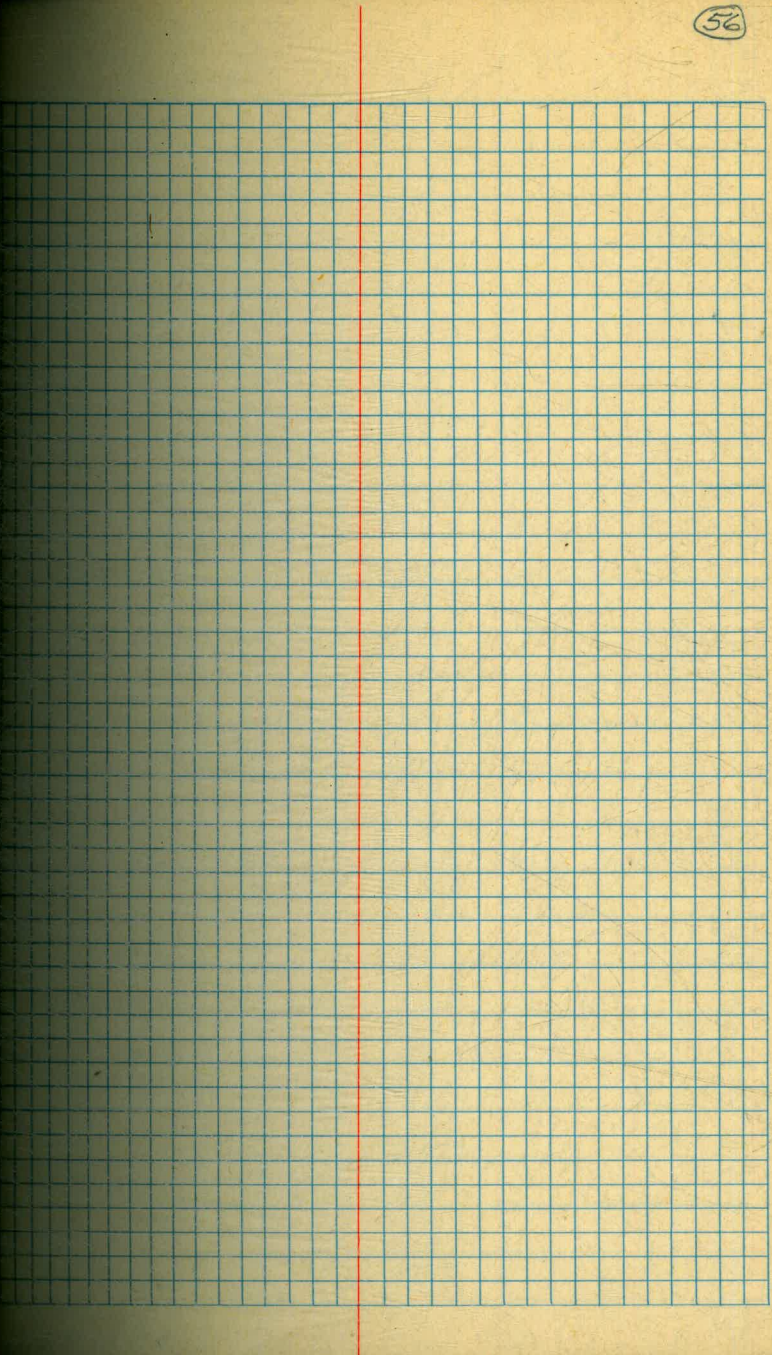
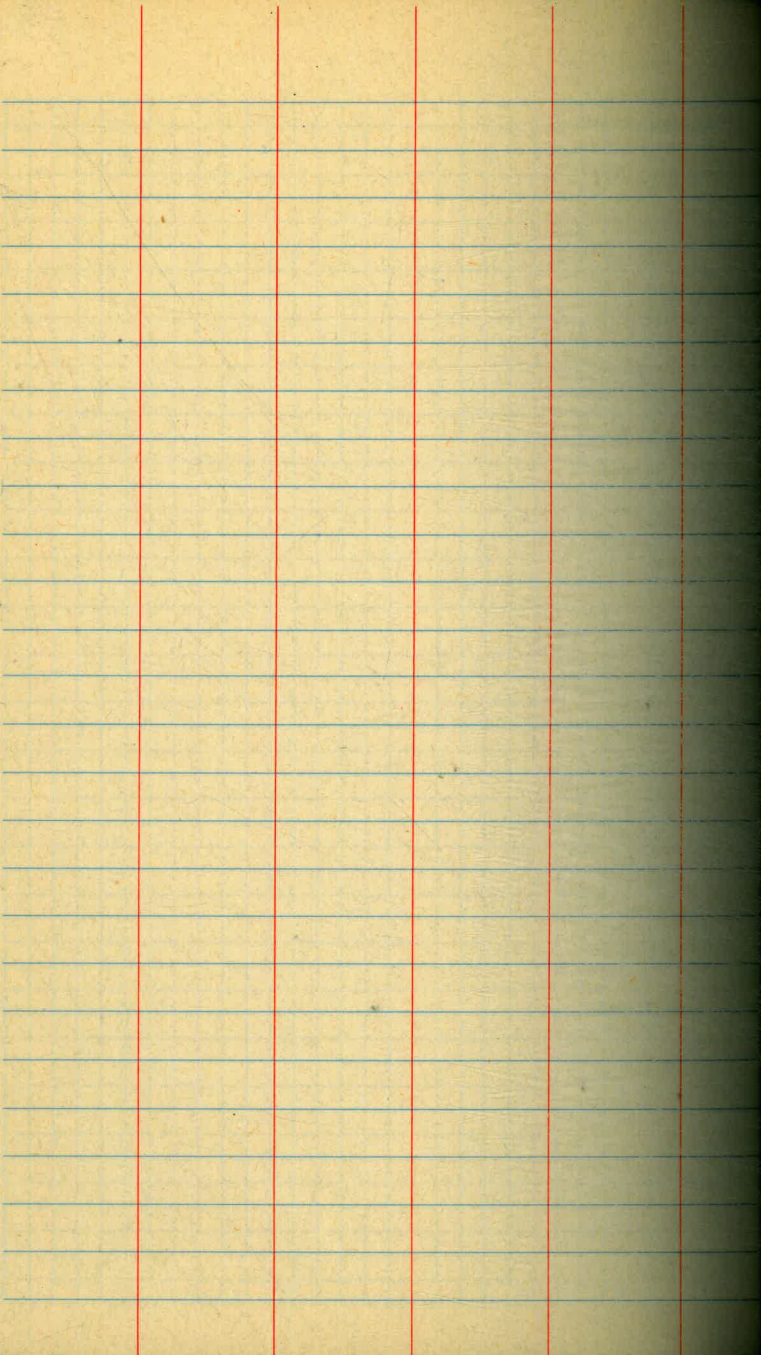
Sta	+	H.I.	-	Elev.	Elev.
				OUTSIDE	INSIDE
16+50				34.430	34.35
+60				34.480	34.43
+70				34.530	34.45
+80				34.580	34.50
+90				34.630	34.55
17+00				34.680	34.60
+10				34.730	34.65
+20				34.780	34.70
+30				34.81	34.73
+40				34.86	34.78
17+50				34.91	34.83
+60				34.95	34.87
+70				35.00	34.92
+80				35.05	34.97
+90				35.10	35.02
18+00				35.14	35.06

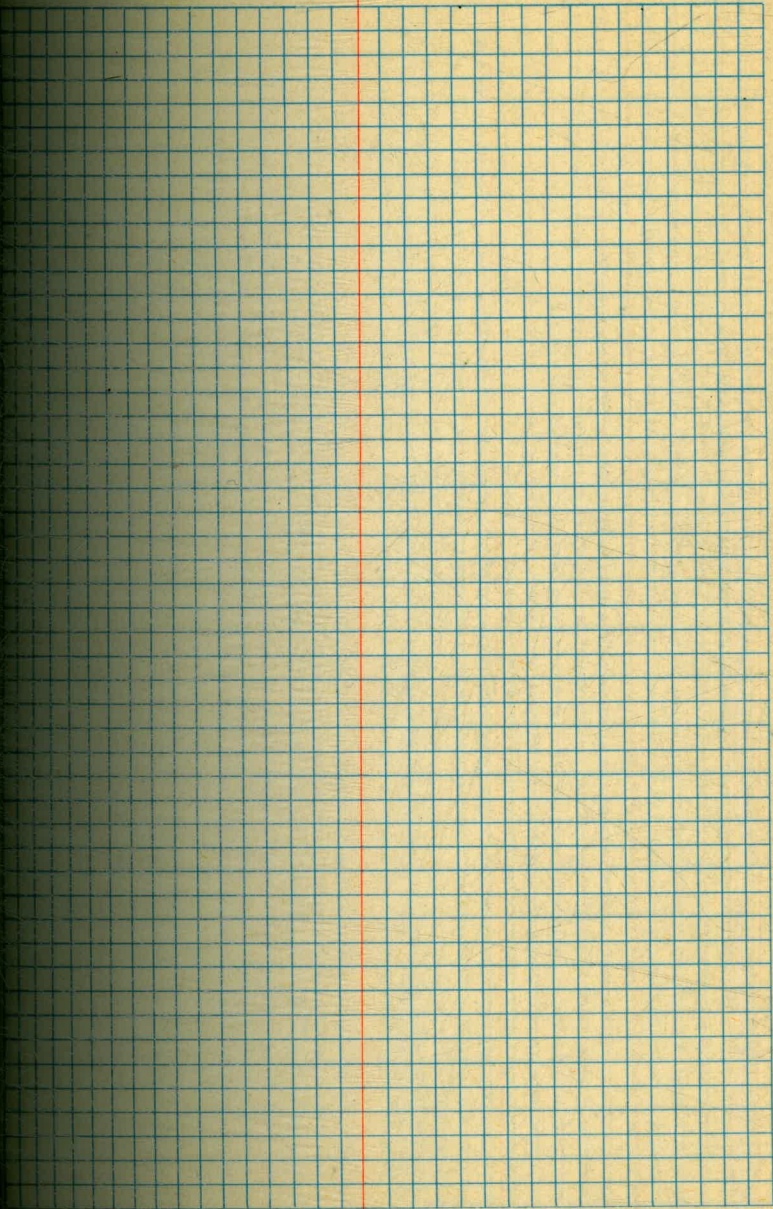
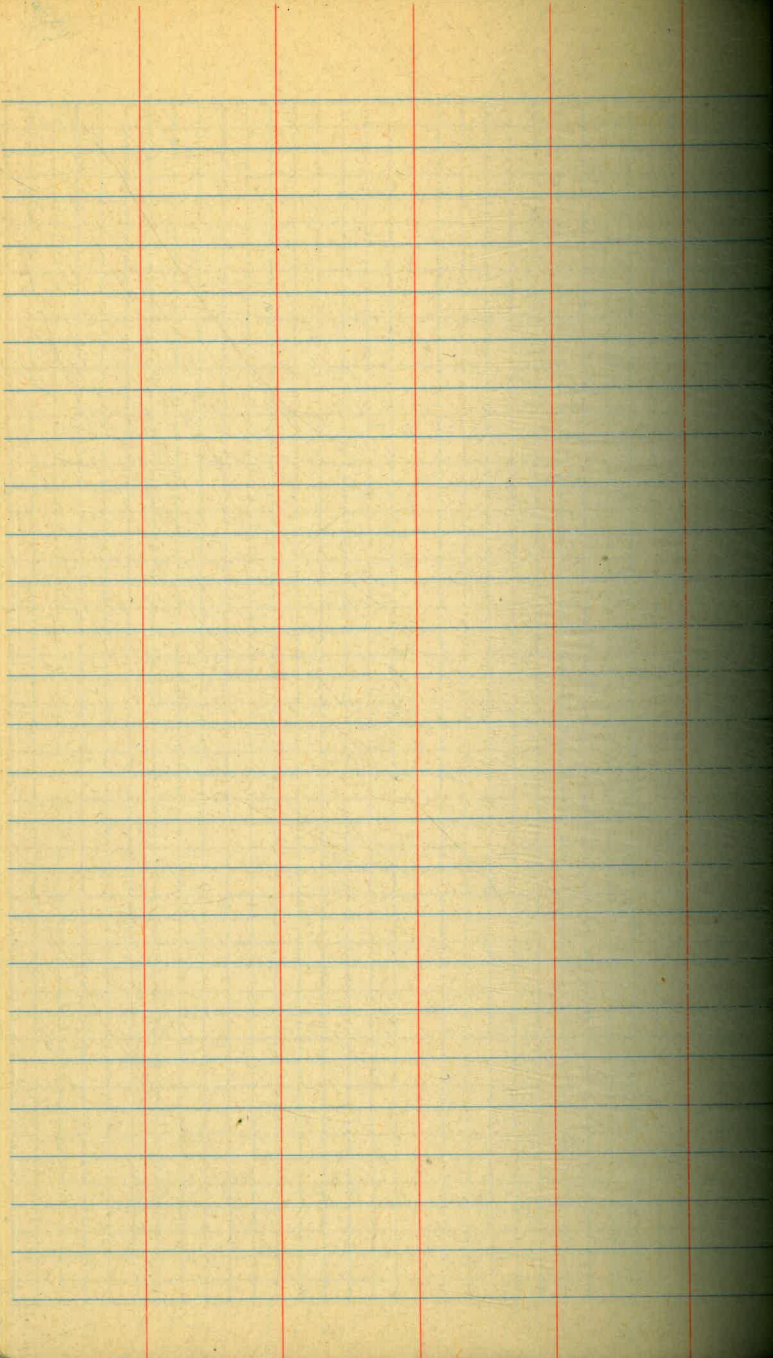


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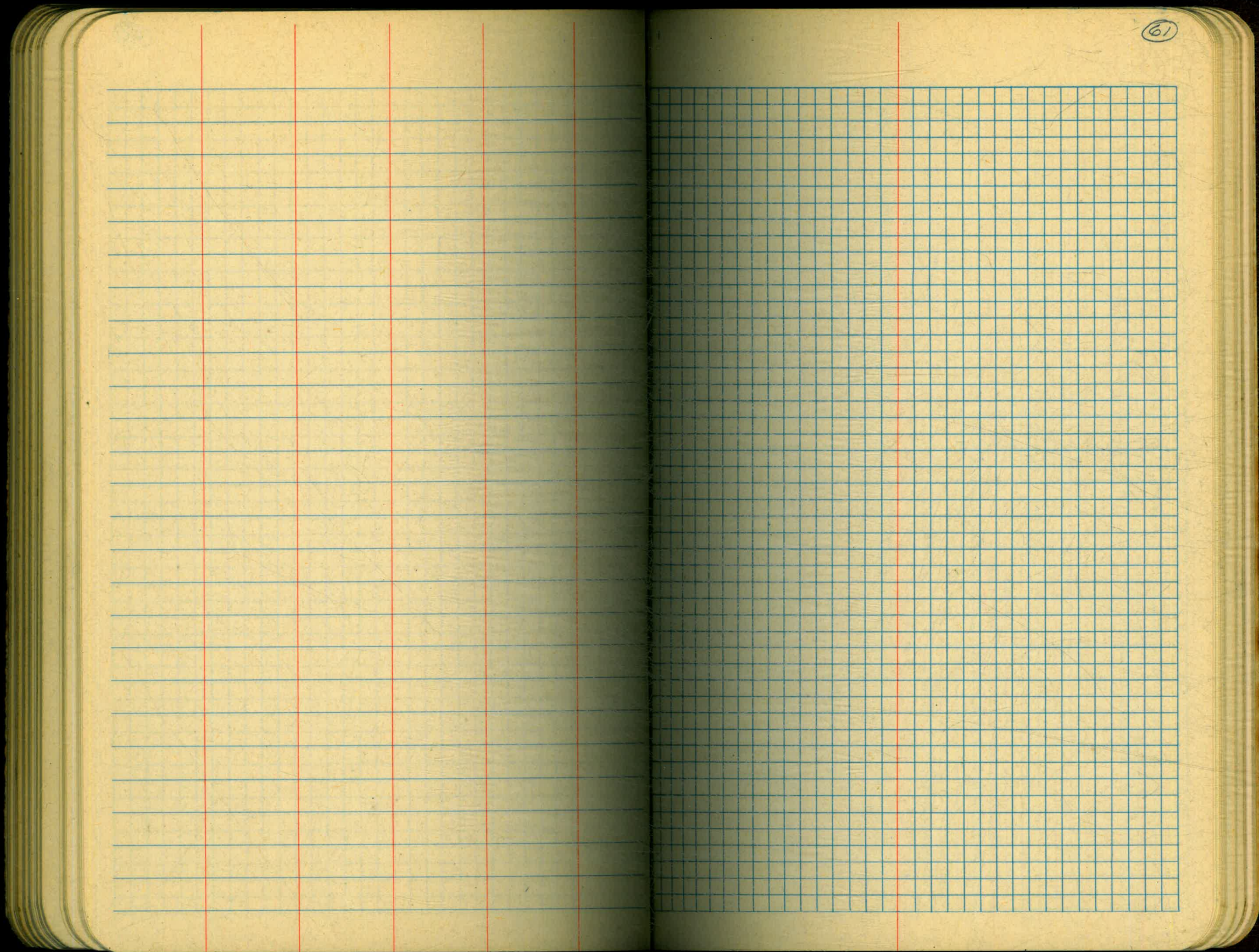
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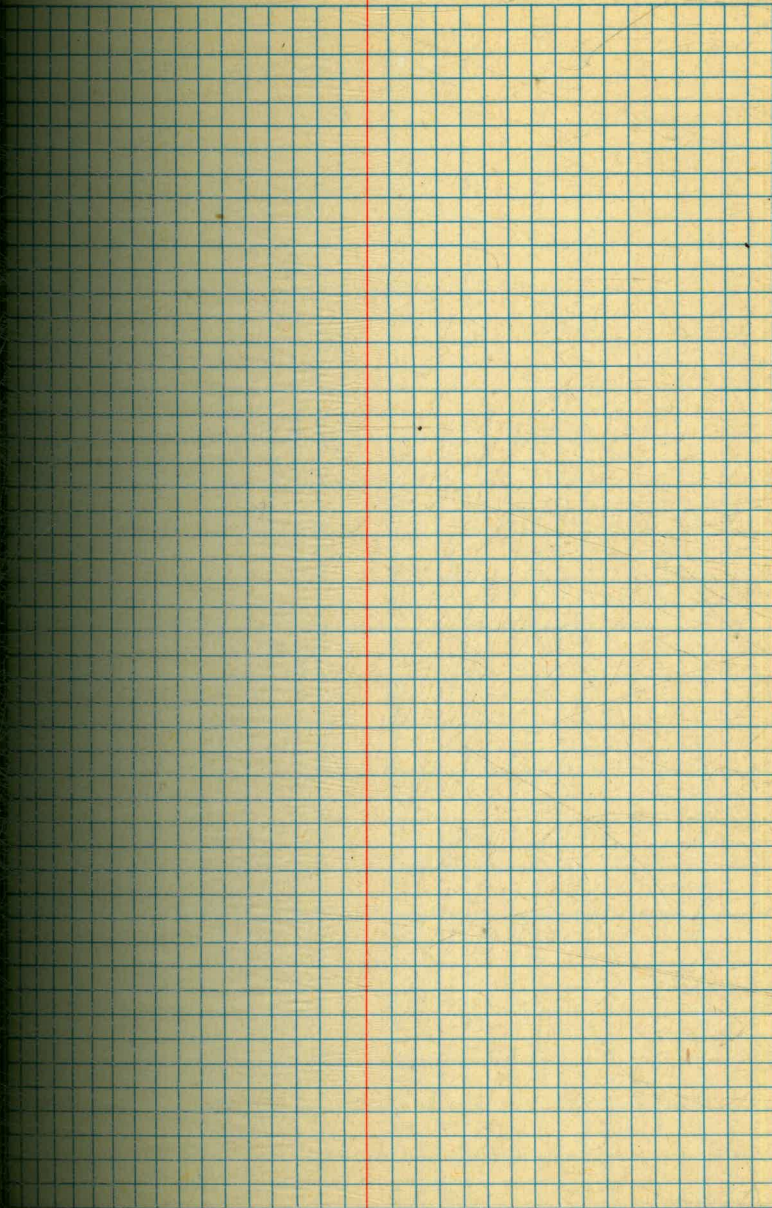
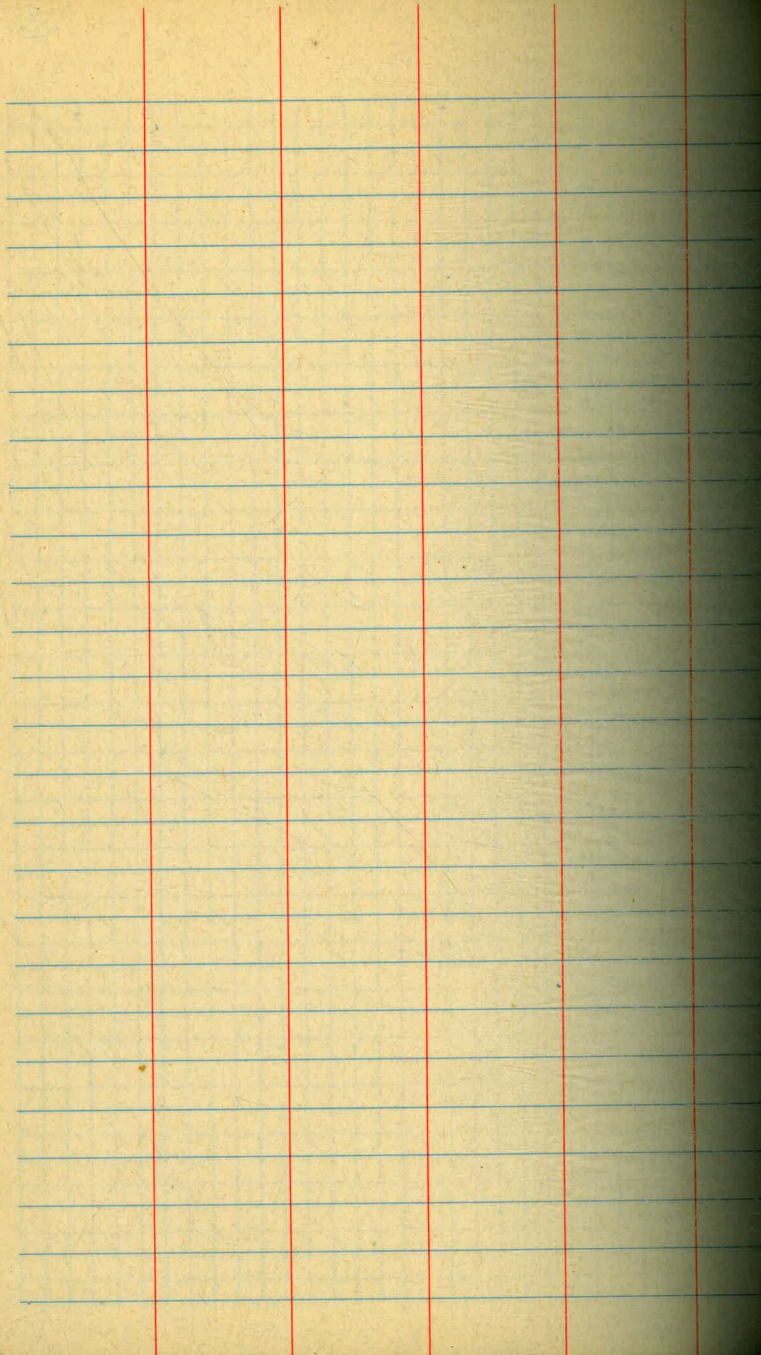
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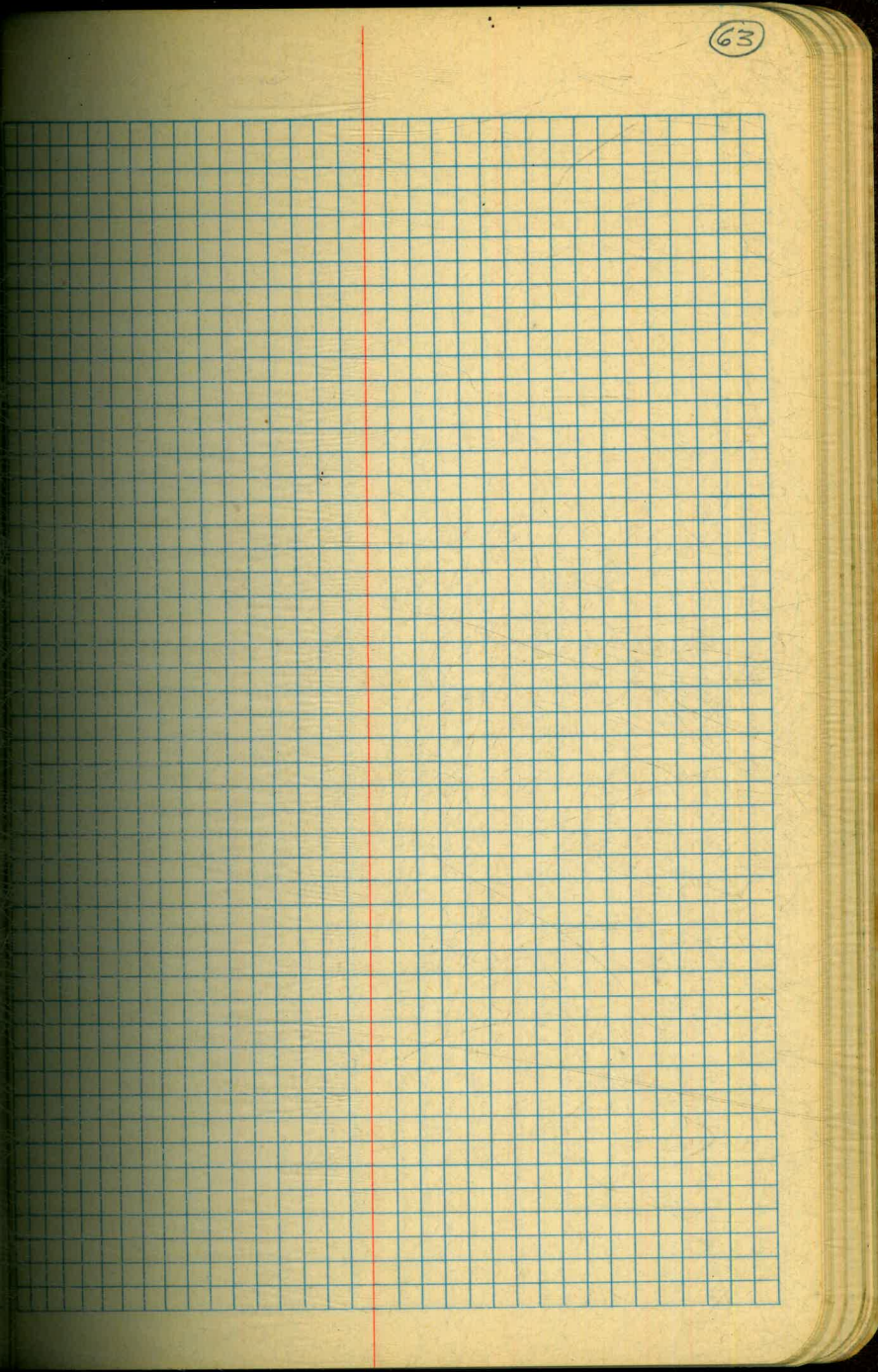
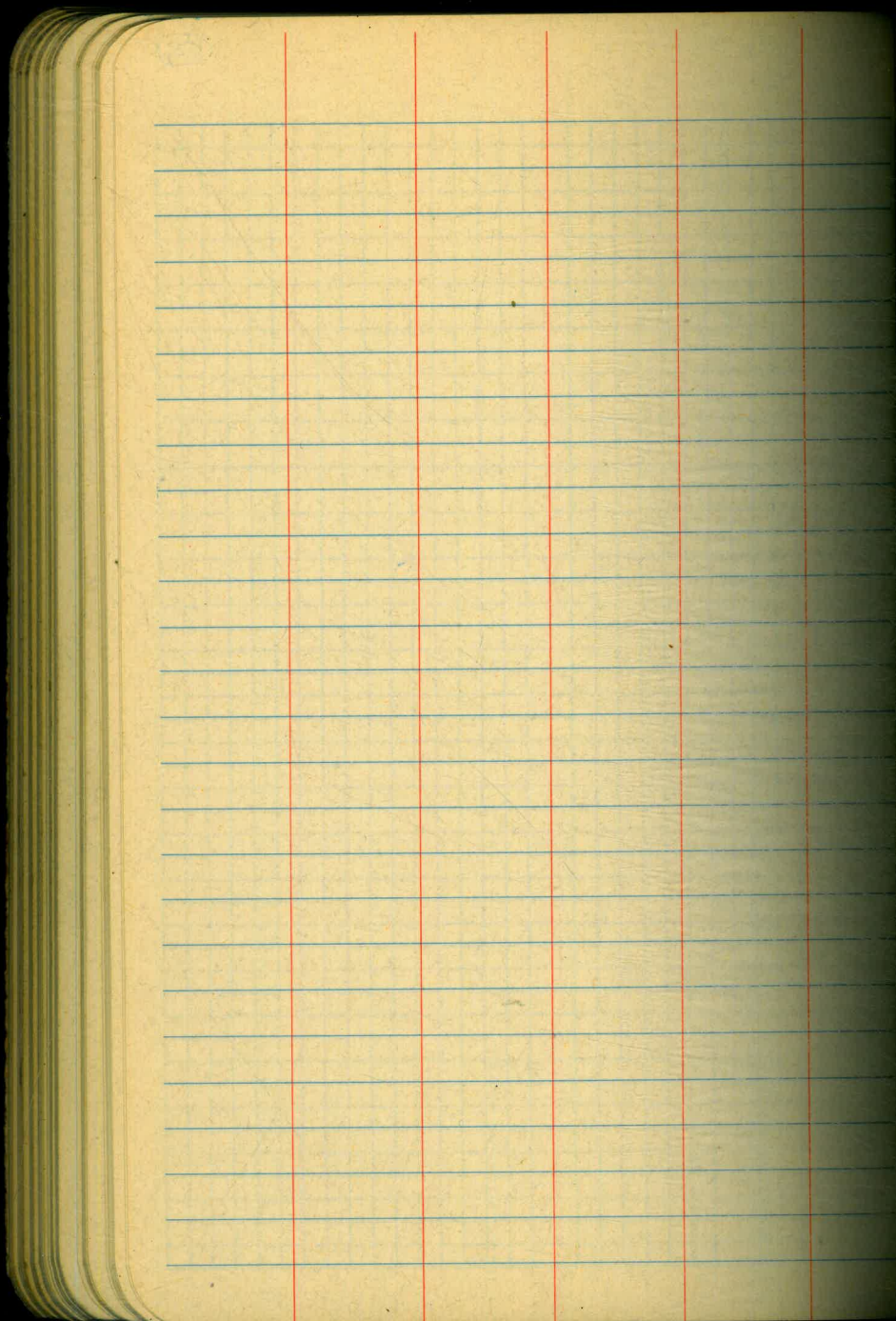
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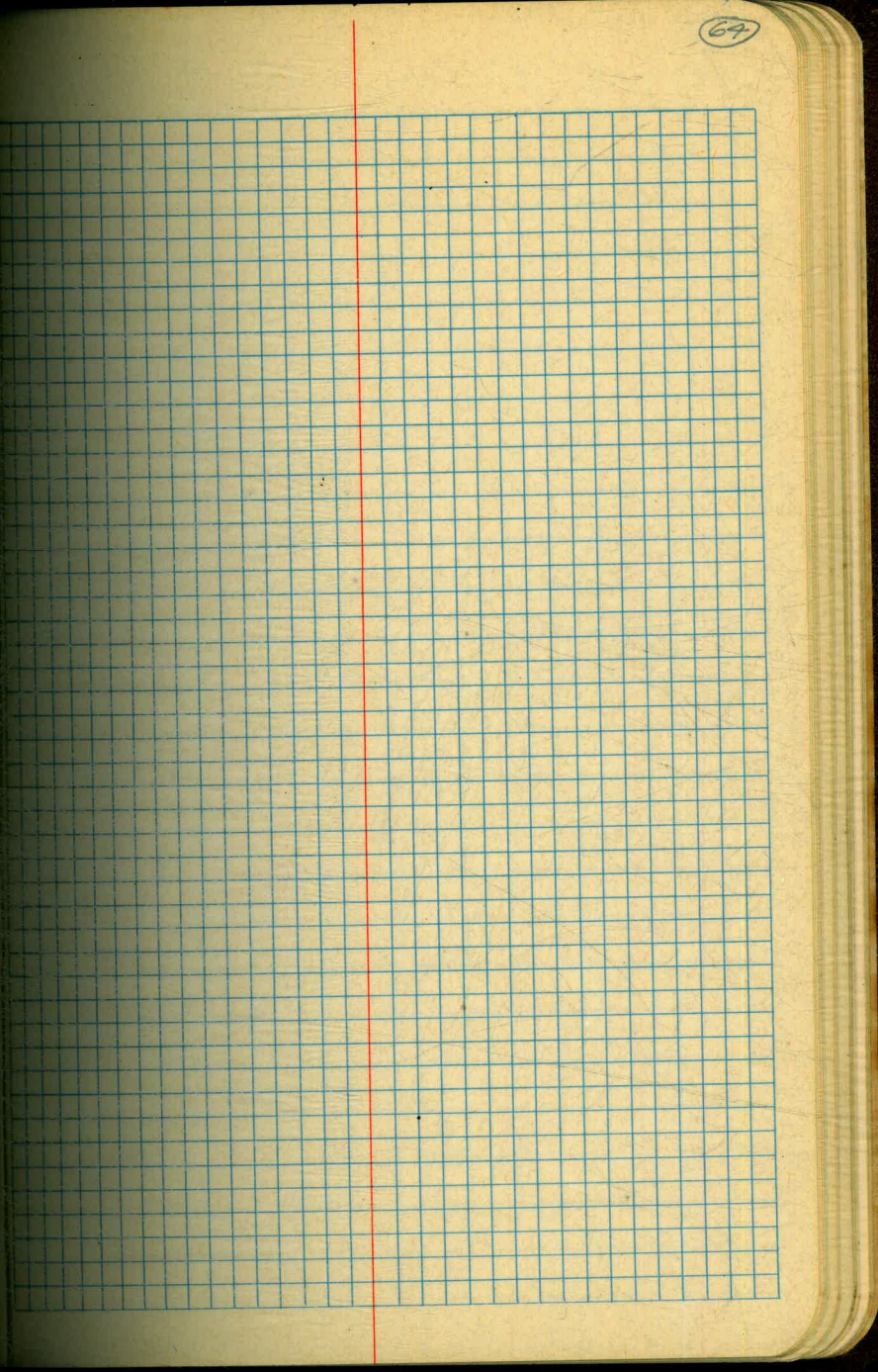
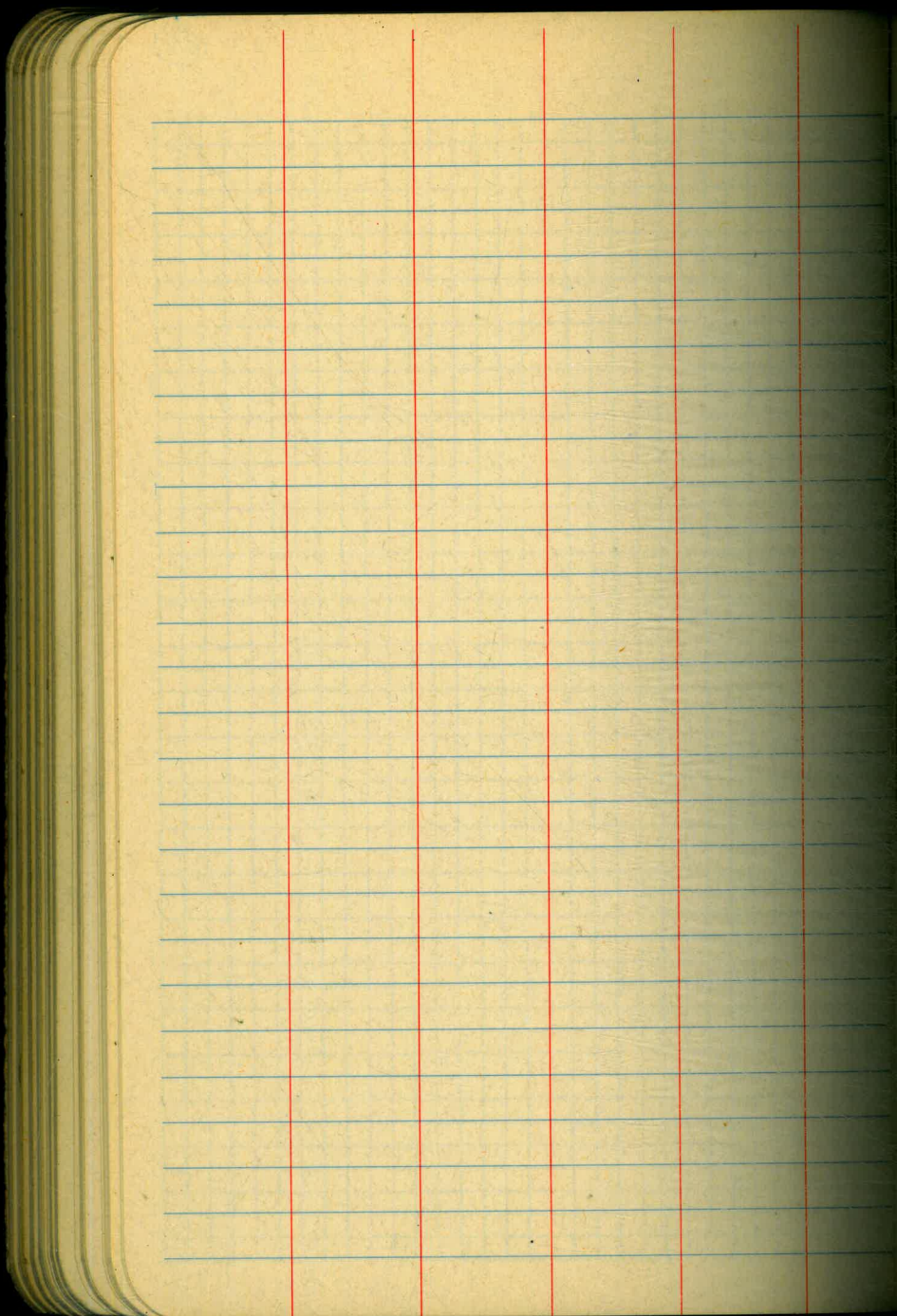


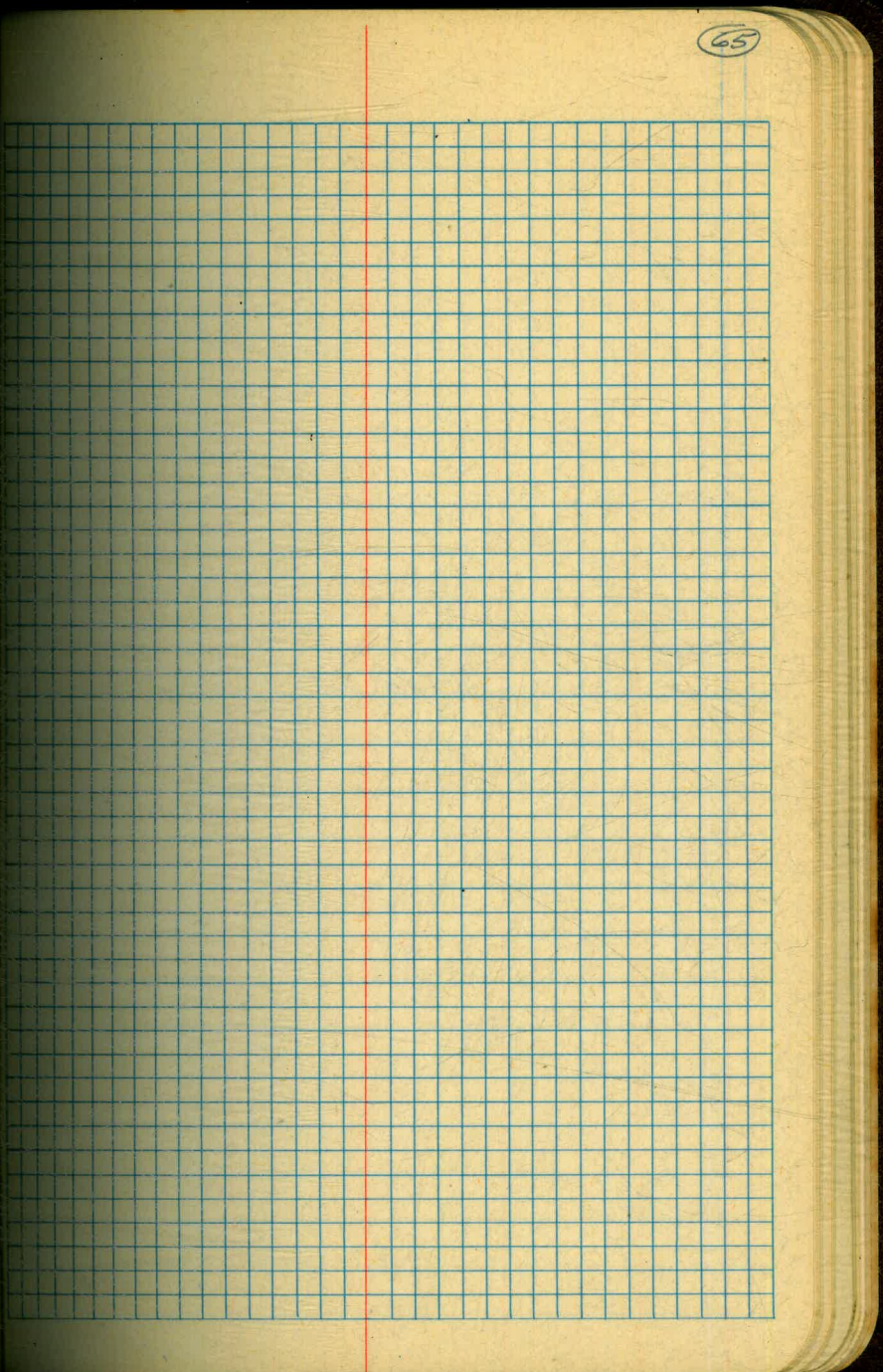
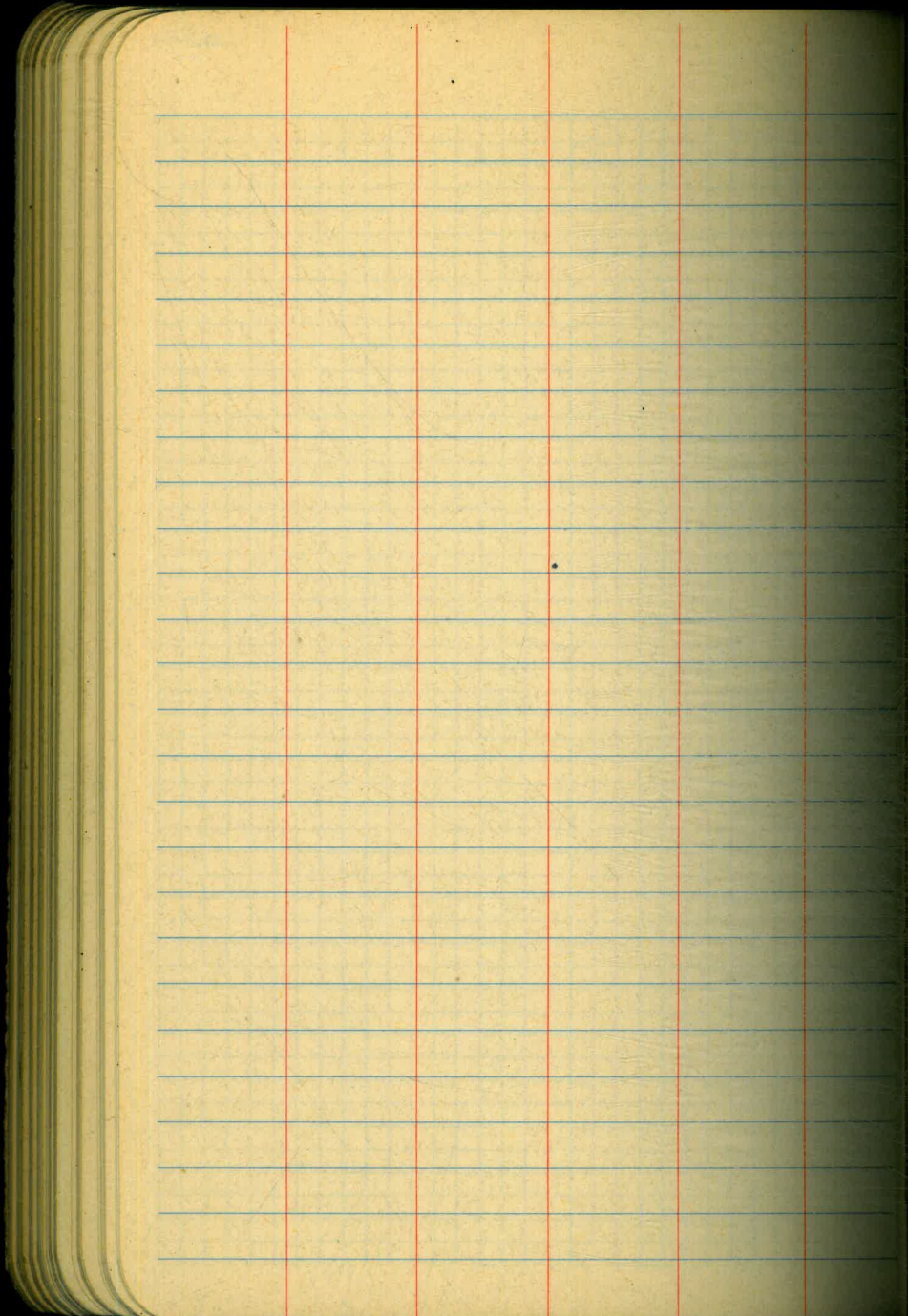
61

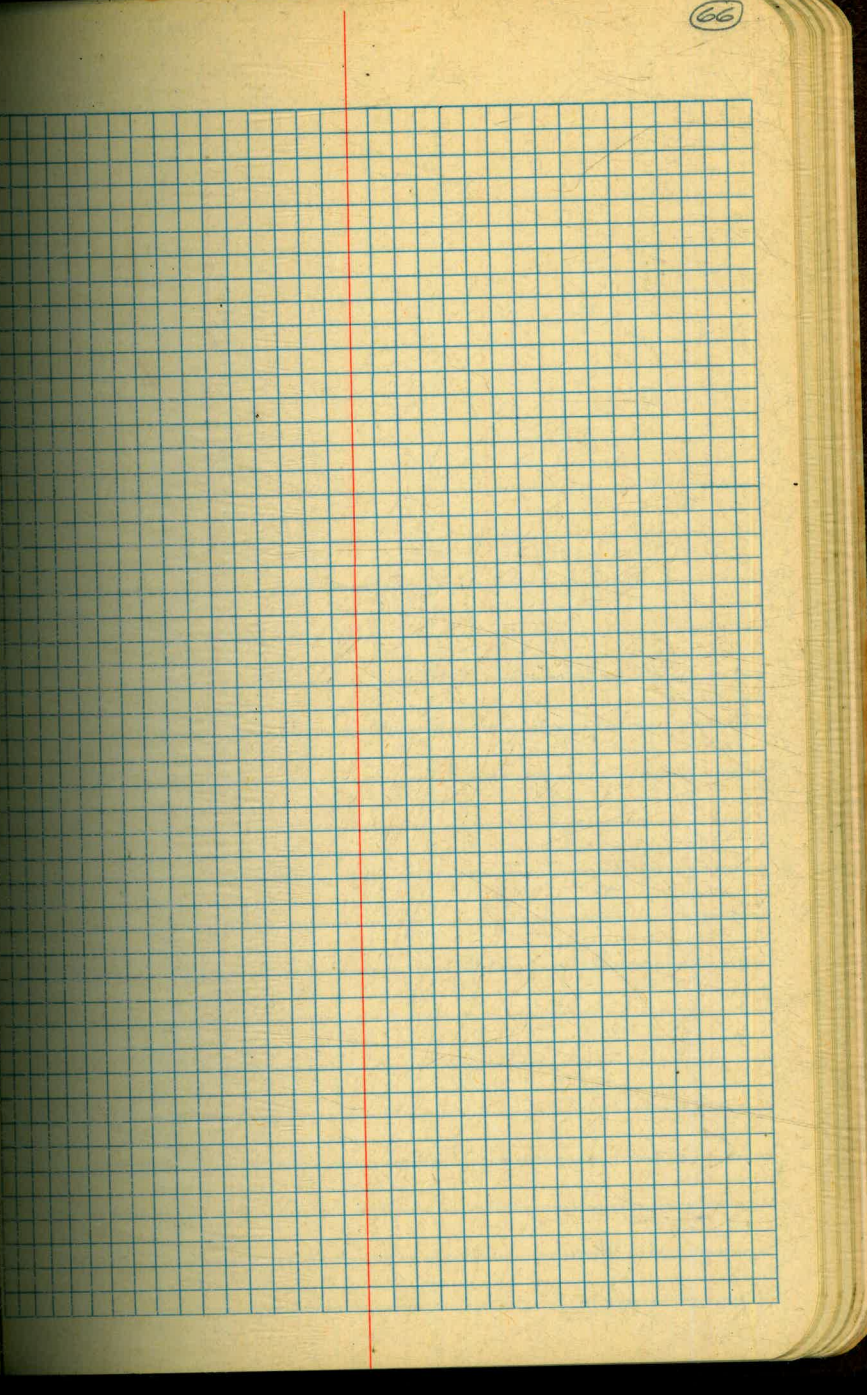
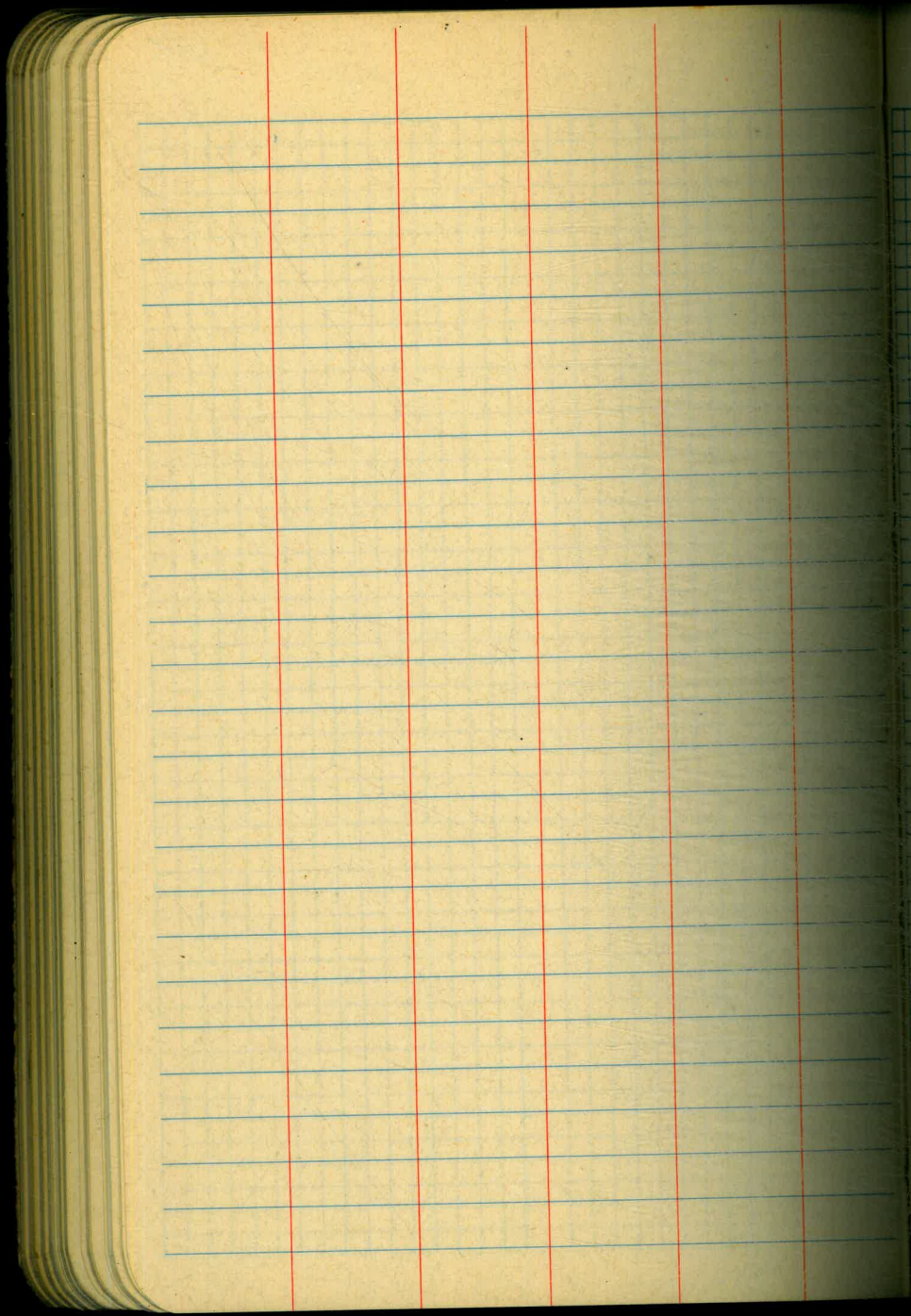










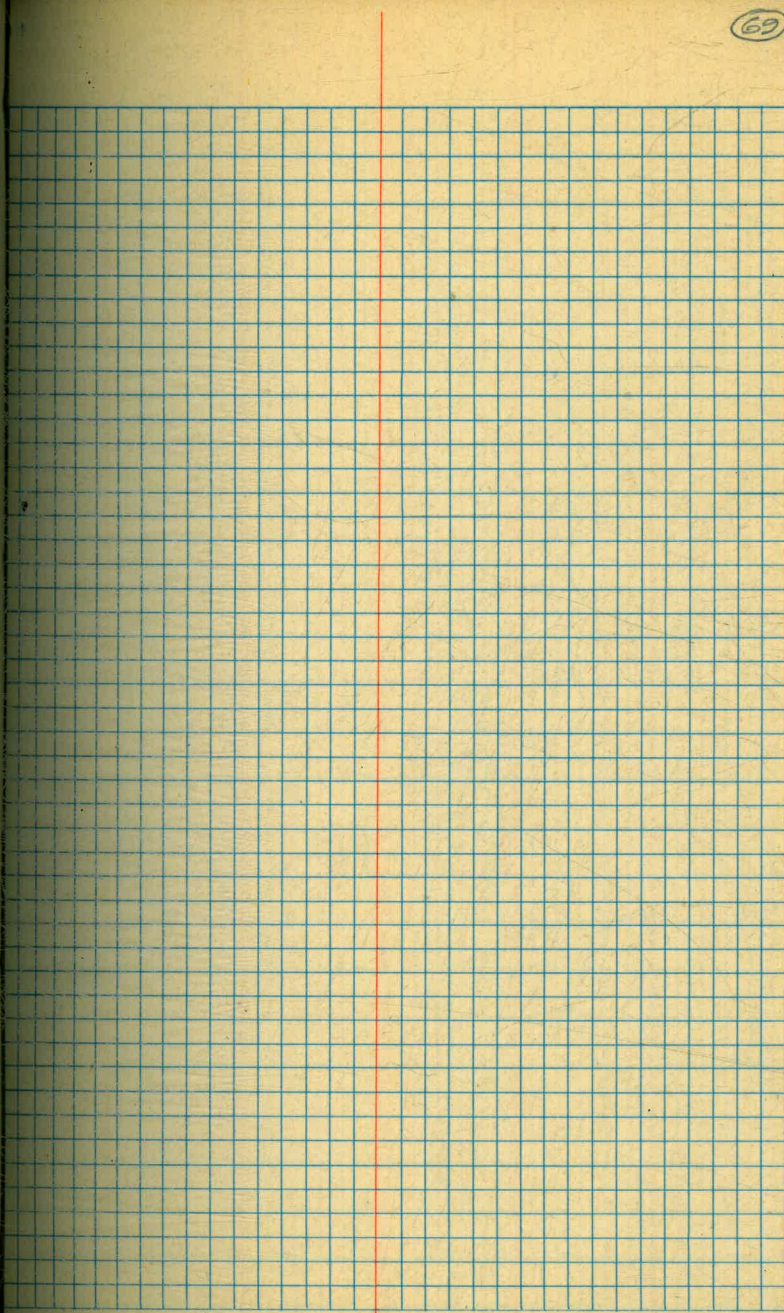
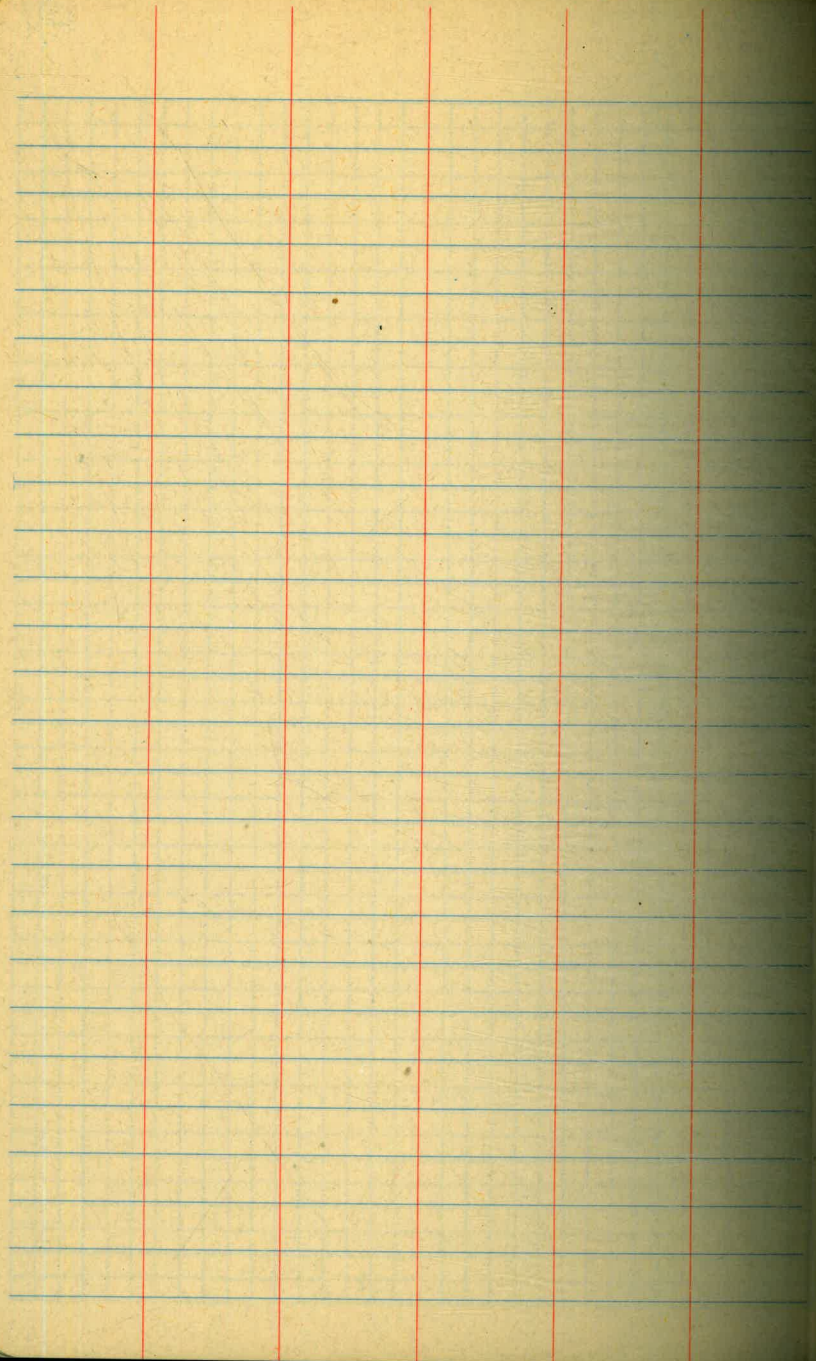


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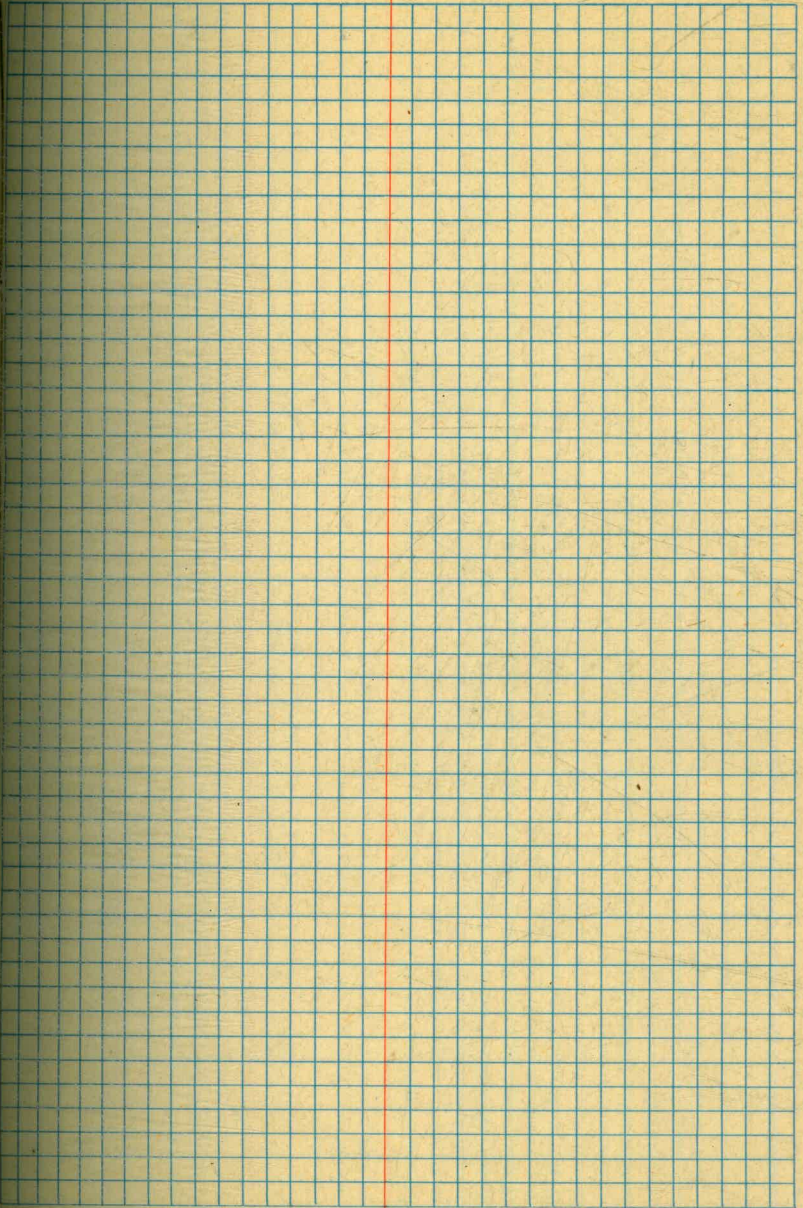
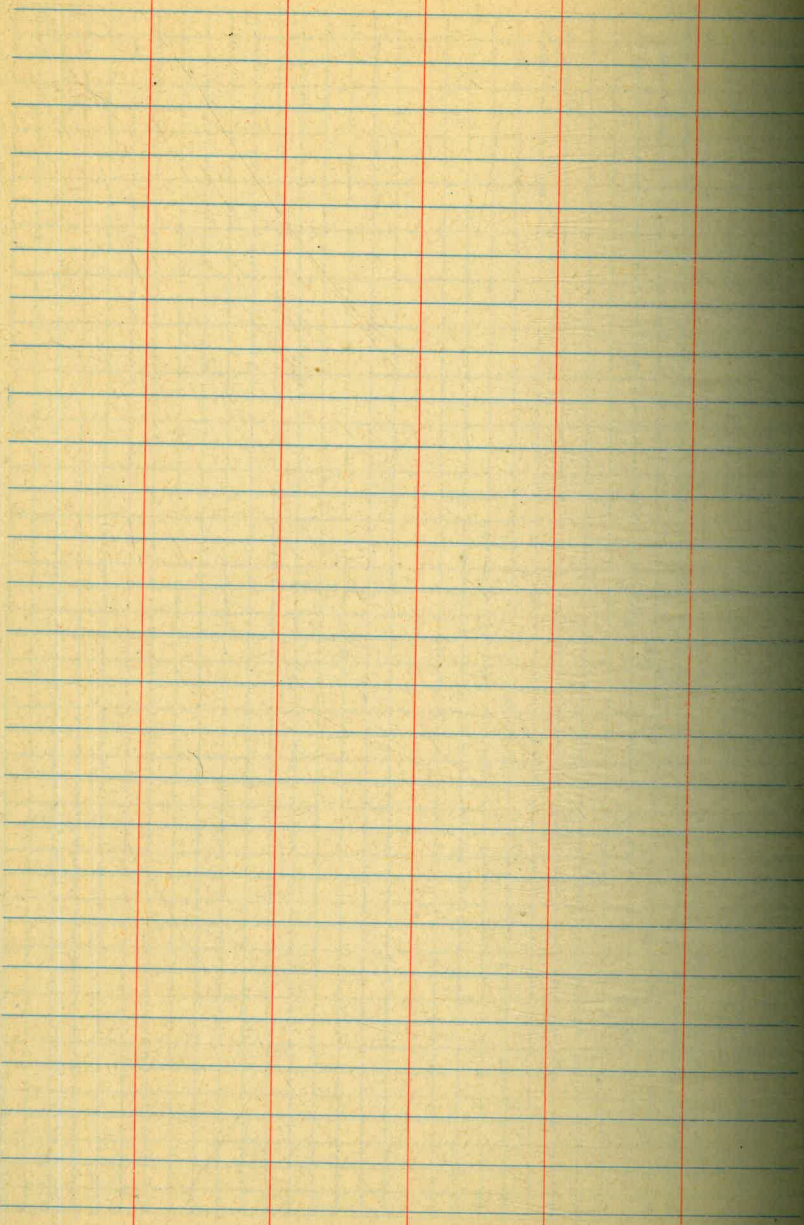
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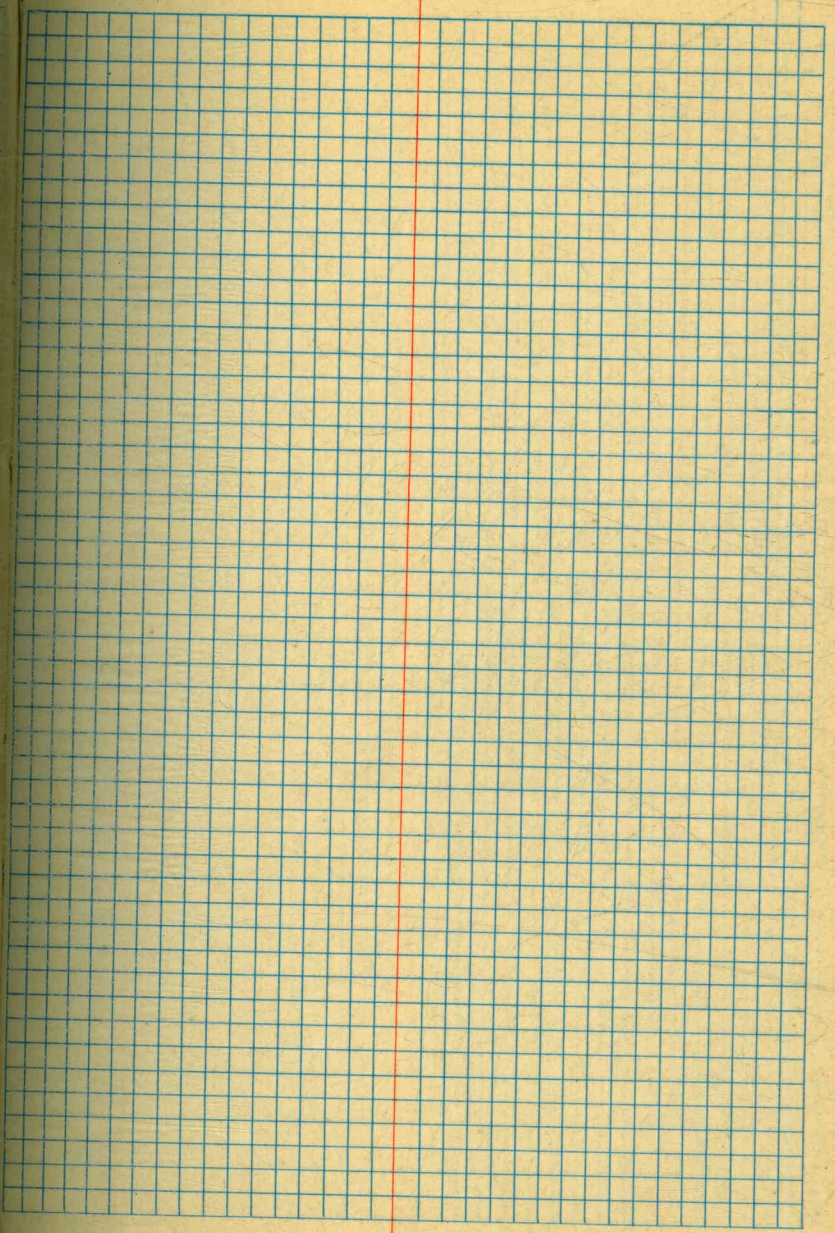
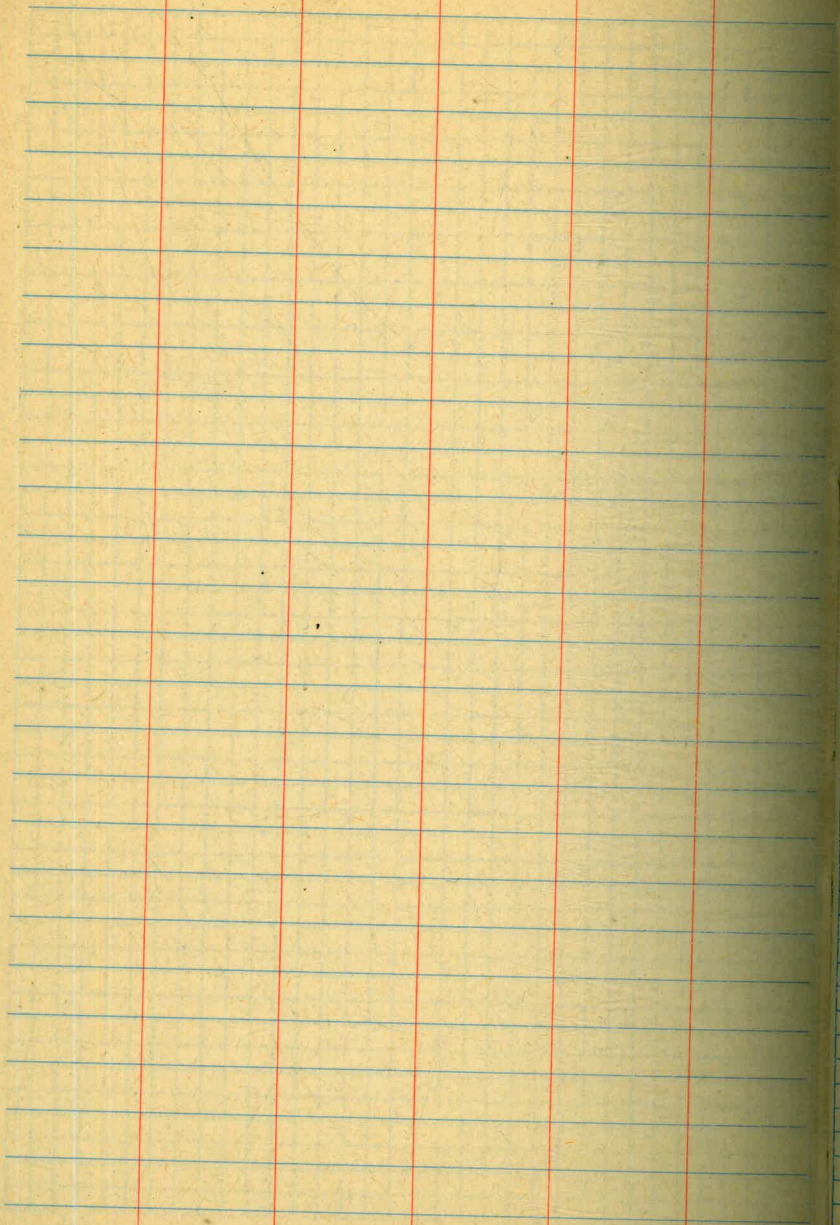
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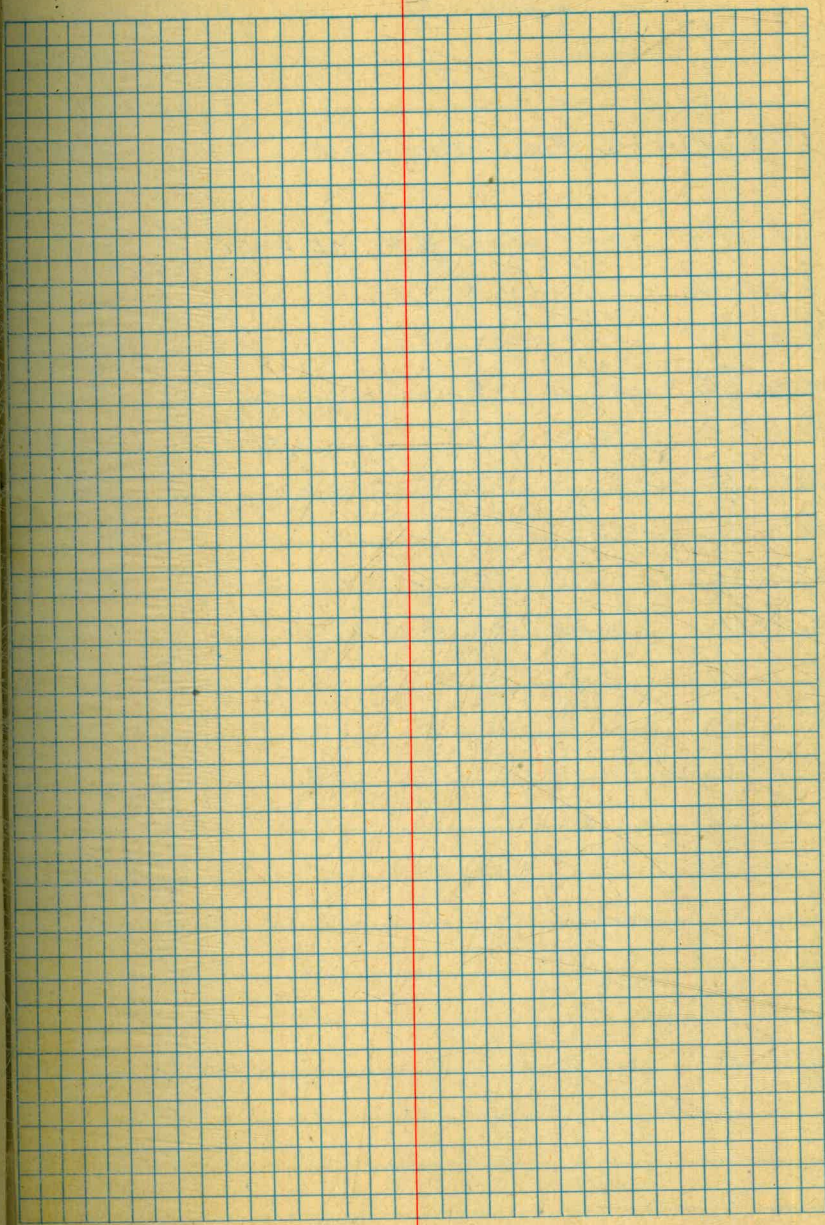
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MORENA BRIDGE  
GRADES ON SLY EXP JOINT

Sta	+	H.I.	-	Elev.	Lead Plug Pic #10
BM				32.480	
AN				36.207	
AS				36.214	
BN				36.350	
BS				36.355	
CN				36.422	
CS				36.423	
DN				36.470	
DS				36.478	
EN				36.505	
ES				36.500	
FN				36.421	
FS				36.435	
GN				36.338	
GS				36.345	
HN				36.185	
HS				36.200	

Grades on  
SLY EXP Dam  
Morena Blvd Bridge

Sta	+	H.I.	-	Elev.	Lead Plug
BM	5.455	37.935		32.480	Pier 10
A N		1.728		36.207	
A S		1.722		36.213	
B N		1.585		36.350	
B S		1.580		36.355	
C N		1.512		36.423	
C S		1.512		36.423	
D N		1.465		36.470	
D S		1.455		36.480	
E N		1.430		36.505	
E S		1.435		36.500	
F N		1.514		36.421	
F S		1.500		36.435	
G N		1.597		36.338	
G S		1.590		36.345	
H N.		1.750		36.185	
H S.		1.735		36.200	



Benches.

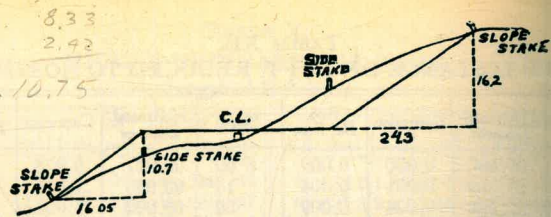
	Elev.
West side N. Abut Backwall	31.478
Pier #5 Lead Plug N.E. Top Pier	30.365
Pier #6 " " " " "	30.82
Pier #7 " " " " "	31.215
Pier #8 " " " " "	31.62
Pier #9 " " " " "	32.04
Pier #10 " " " " "	32.48
Pier #11 " " " " "	32.82
Pier #12 " " " " "	33.30
S. Abut. N.E. Cor. Top Backwall	37.32

39.225	30.82
8.390	30.830
30.830	.010
38.835	

39.225
7.78
445

38.690
7.865
30.825





**DISTANCES FROM SIDE STAKES FOR CROSS-SECTIONING.**

SLOPE 1 1/2 TO 1. ROADWAY OF ANY WIDTH.

	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	
0	0 00	0 15	0 30	0 45	0 60	0 75	0 90	1 05	1 20	1 35	0
1	1 50	1 65	1 80	1 95	2 10	2 25	2 40	2 55	2 70	2 85	1
2	3 00	3 15	3 30	3 45	3 60	3 75	3 90	4 05	4 20	4 35	2
3	4 50	4 65	4 80	4 95	5 10	5 25	5 40	5 55	5 70	5 85	3
4	6 00	6 15	6 30	6 45	6 60	6 75	6 90	7 05	7 20	7 35	4
5	7 50	7 65	7 80	7 95	8 10	8 25	8 40	8 55	8 70	8 85	5
6	9 00	9 15	9 30	9 45	9 60	9 75	9 90	10 05	10 20	10 35	6
7	10 50	10 65	10 80	10 95	11 10	11 25	11 40	11 55	11 70	11 85	7
8	12 00	12 15	12 30	12 45	12 60	12 75	12 90	13 05	13 20	13 35	8
9	13 50	13 65	13 80	13 95	14 10	14 25	14 40	14 55	14 70	14 85	9
10	15 00	15 15	15 30	15 45	15 60	15 75	15 90	16 05	16 20	16 35	10
11	16 50	16 65	16 80	16 95	17 10	17 25	17 40	17 55	17 70	17 85	11
12	18 00	18 15	18 30	18 45	18 60	18 75	18 90	19 05	19 20	19 35	12
13	19 50	19 65	19 80	19 95	20 10	20 25	20 40	20 55	20 70	20 85	13
14	21 00	21 15	21 30	21 45	21 60	21 75	21 90	22 05	22 20	22 35	14
15	22 50	22 65	22 80	22 95	23 10	23 25	23 40	23 55	23 70	23 85	15
16	24 00	24 15	24 30	24 45	24 60	24 75	24 90	25 05	25 20	25 35	16
17	25 50	25 65	25 80	25 95	26 10	26 25	26 40	26 55	26 70	26 85	17
18	27 00	27 15	27 30	27 45	27 60	27 75	27 90	28 05	28 20	28 35	18
19	28 50	28 65	28 80	28 95	29 10	29 25	29 40	29 55	29 70	29 85	19
20	30 00	30 15	30 30	30 45	30 60	30 75	30 90	31 05	31 20	31 35	20
21	31 50	31 65	31 80	31 95	32 10	32 25	32 40	32 55	32 70	32 85	21
22	33 00	33 15	33 30	33 45	33 60	33 75	33 90	34 05	34 20	34 35	22
23	34 50	34 65	34 80	34 95	35 10	35 25	35 40	35 55	35 70	35 85	23
24	36 00	36 15	36 30	36 45	36 60	36 75	36 90	37 05	37 20	37 35	24
25	37 50	37 65	37 80	37 95	38 10	38 25	38 40	38 55	38 70	38 85	25
26	39 00	39 15	39 30	39 45	39 60	39 75	39 90	40 05	40 20	40 35	26
27	40 50	40 65	40 80	40 95	41 10	41 25	41 40	41 55	41 70	41 85	27
28	42 00	42 15	42 30	42 45	42 60	42 75	42 90	43 05	43 20	43 35	28
29	43 50	43 65	43 80	43 95	44 10	44 25	44 40	44 55	44 70	44 85	29
30	45 00	45 15	45 30	45 45	45 60	45 75	45 90	46 05	46 20	46 35	30
31	46 50	46 65	46 80	46 95	47 10	47 25	47 40	47 55	47 70	47 85	31
32	48 00	48 15	48 30	48 45	48 60	48 75	48 90	49 05	49 20	49 35	32
33	49 50	49 65	49 80	49 95	50 10	50 25	50 40	50 55	50 70	50 85	33
34	51 00	51 15	51 30	51 45	51 60	51 75	51 90	52 05	52 20	52 35	34
35	52 50	52 65	52 80	52 95	53 10	53 25	53 40	53 55	53 70	53 85	35
36	54 00	54 15	54 30	54 45	54 60	54 75	54 90	55 05	55 20	55 35	36
37	55 50	55 65	55 80	55 95	56 10	56 25	56 40	56 55	56 70	56 85	37
38	57 00	57 15	57 30	57 45	57 60	57 75	57 90	58 05	58 20	58 35	38
39	58 50	58 65	58 80	58 95	59 10	59 25	59 40	59 55	59 70	59 85	39
40	60 00	60 15	60 30	60 45	60 60	60 75	60 90	61 05	61 20	61 35	40
41	61 50	61 65	61 80	61 95	62 10	62 25	62 40	62 55	62 70	62 85	41
42	63 00	63 15	63 30	63 45	63 60	63 75	63 90	64 05	64 20	64 35	42
43	64 50	64 65	64 80	64 95	65 10	65 25	65 40	65 55	65 70	65 85	43
44	66 00	66 15	66 30	66 45	66 60	66 75	66 90	67 05	67 20	67 35	44
45	67 50	67 65	67 80	67 95	68 10	68 25	68 40	68 55	68 70	68 85	45
46	69 00	69 15	69 30	69 45	69 60	69 75	69 90	70 05	70 20	70 35	46
47	70 50	70 65	70 80	70 95	71 10	71 25	71 40	71 55	71 70	71 85	47
48	72 00	72 15	72 30	72 45	72 60	72 75	72 90	73 05	73 20	73 35	48
49	73 50	73 65	73 80	73 95	74 10	74 25	74 40	74 55	74 70	74 85	49
50	75 00	75 15	75 30	75 45	75 60	75 75	75 90	76 05	76 20	76 35	50

Computed by L. Leland Locke.

35.466  
462

S. EXP JT. 22+09

