

960

F.B. 960

FIELD BOOK

330

KEUFFEL & ESSER CO.

DRAWING MATERIALS
AND
SURVEYING INSTRUMENTS.
NEW YORK.

CHICAGO. ST. LOUIS. SAN FRANCISCO. MONTREAL.

TABLES FOR EXCAVATIONS AND EMBANKMENTS.

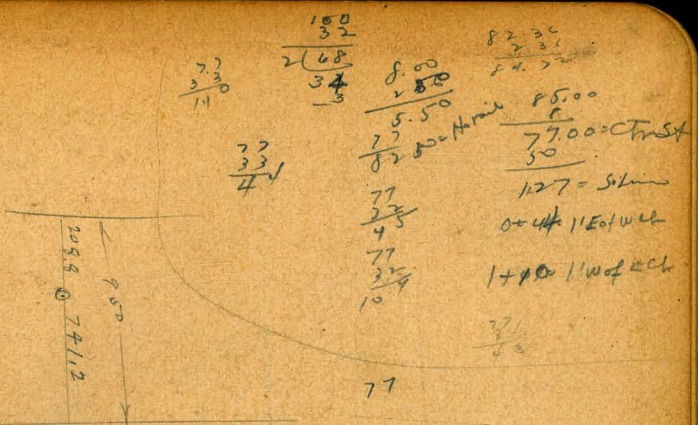
DISTANCES FROM CENTER OF ROADWAY FOR CROSS-SECTIONING.
ROADWAY 18 FEET WIDE. SIDE SLOPES 1 TO 1.
FOR SINGLE TRACK EXCAVATION.

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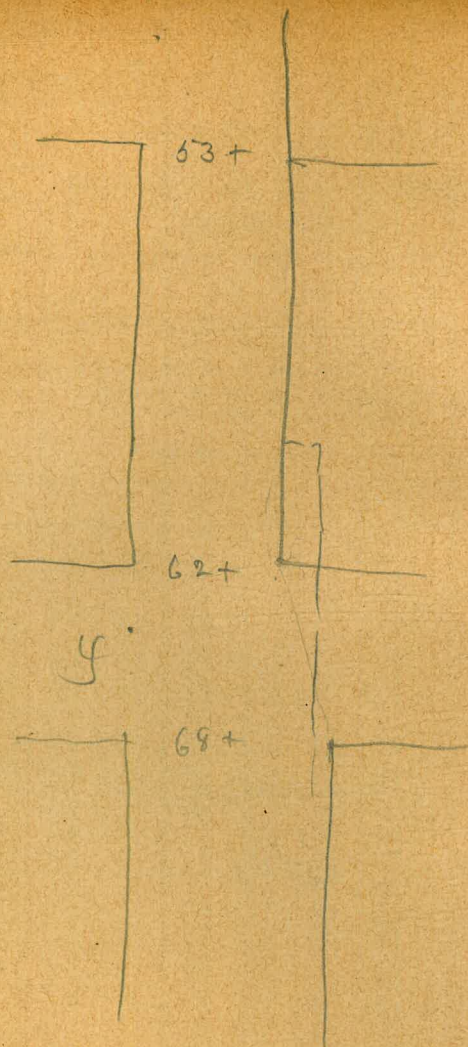
	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	
0	9.0	9.1	9.2	9.3	9.4	9.5	9.6	9.7	9.8	9.9	0
1	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.9	1
2	11.0	11.1	11.2	11.3	11.4	11.5	11.6	11.7	11.8	11.9	2
3	12.0	12.1	12.2	12.3	12.4	12.5	12.6	12.7	12.8	12.9	3
4	13.0	13.1	13.2	13.3	13.4	13.5	13.6	13.7	13.8	13.9	4
5	14.0	14.1	14.2	14.3	14.4	14.5	14.6	14.7	14.8	14.9	5
6	15.0	15.1	15.2	15.3	15.4	15.5	15.6	15.7	15.8	15.9	6
7	16.0	16.1	16.2	16.3	16.4	16.5	16.6	16.7	16.8	16.9	7
8	17.0	17.1	17.2	17.3	17.4	17.5	17.6	17.7	17.8	17.9	8
9	18.0	18.1	18.2	18.3	18.4	18.5	18.6	18.7	18.8	18.9	9
10	19.0	19.1	19.2	19.3	19.4	19.5	19.6	19.7	19.8	19.9	10
11	20.0	20.1	20.2	20.3	20.4	20.5	20.6	20.7	20.8	20.9	11
12	21.0	21.1	21.2	21.3	21.4	21.5	21.6	21.7	21.8	21.9	12
13	22.0	22.1	22.2	22.3	22.4	22.5	22.6	22.7	22.8	22.9	13
14	23.0	23.1	23.2	23.3	23.4	23.5	23.6	23.7	23.8	23.9	14
15	24.0	24.1	24.2	24.3	24.4	24.5	24.6	24.7	24.8	24.9	15
16	25.0	25.1	25.2	25.3	25.4	25.5	25.6	25.7	25.8	25.9	16
17	26.0	26.1	26.2	26.3	26.4	26.5	26.6	26.7	26.8	26.9	17
18	27.0	27.1	27.2	27.3	27.4	27.5	27.6	27.7	27.8	27.9	18
19	28.0	28.1	28.2	28.3	28.4	28.5	28.6	28.7	28.8	28.9	19
20	29.0	29.1	29.2	29.3	29.4	29.5	29.6	29.7	29.8	29.9	20
21	30.0	30.1	30.2	30.3	30.4	30.5	30.6	30.7	30.8	30.9	21
22	31.0	31.1	31.2	31.3	31.4	31.5	31.6	31.7	31.8	31.9	22
23	32.0	32.1	32.2	32.3	32.4	32.5	32.6	32.7	32.8	32.9	23
24	33.0	33.1	33.2	33.3	33.4	33.5	33.6	33.7	33.8	33.9	24
25	34.0	34.1	34.2	34.3	34.4	34.5	34.6	34.7	34.8	34.9	25
26	35.0	35.1	35.2	35.3	35.4	35.5	35.6	35.7	35.8	35.9	26
27	36.0	36.1	36.2	36.3	36.4	36.5	36.6	36.7	36.8	36.9	27
28	37.0	37.1	37.2	37.3	37.4	37.5	37.6	37.7	37.8	37.9	28
29	38.0	38.1	38.2	38.3	38.4	38.5	38.6	38.7	38.8	38.9	29
30	39.0	39.1	39.2	39.3	39.4	39.5	39.6	39.7	39.8	39.9	30
31	40.0	40.1	40.2	40.3	40.4	40.5	40.6	40.7	40.8	40.9	31
32	41.0	41.1	41.2	41.3	41.4	41.5	41.6	41.7	41.8	41.9	32
33	42.0	42.1	42.2	42.3	42.4	42.5	42.6	42.7	42.8	42.9	33
34	43.0	43.1	43.2	43.3	43.4	43.5	43.6	43.7	43.8	43.9	34
35	44.0	44.1	44.2	44.3	44.4	44.5	44.6	44.7	44.8	44.9	35
36	45.0	45.1	45.2	45.3	45.4	45.5	45.6	45.7	45.8	45.9	36

Calculated by Julien A. Hall, M. Am. Soc. C. E.

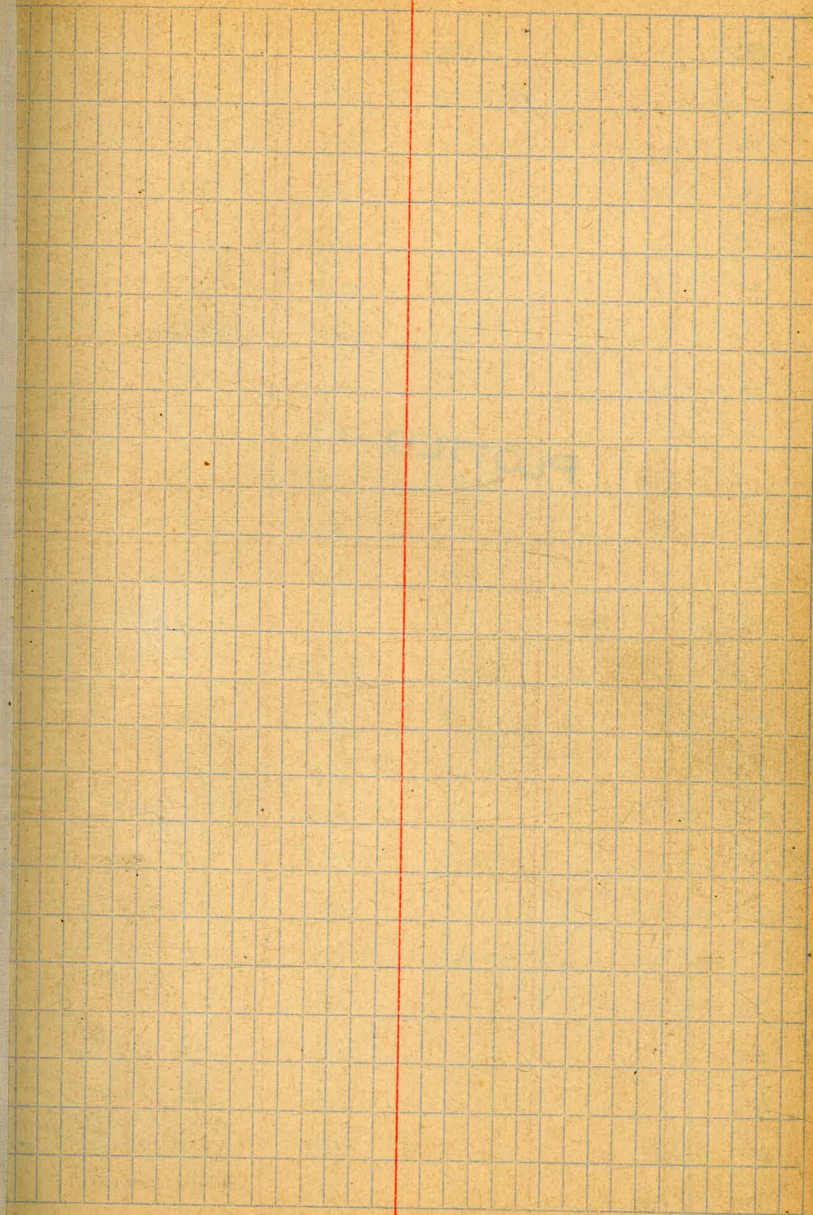
For Keith's Railroad Curve Tables see end of book.



Handwritten calculations:
 $\frac{209.8}{74.12} = 2.83$
 $\frac{1.27778}{9.50} = 0.1345$
 $\frac{63859.00}{1140000} = 0.0559$
 121387100



74+



Gregory Moore
 CROSS SECTION OF
 Q ST 60' WIDE
 FROM W.L. 39th ST TO E.L. 38th ST

B.M.	0.42	110.83	110.41	NE 39th + WOLMEN	
		N L 39th ST			
N		10.1	100.7	✓	
cb		10.6	100.2		
1/4		11.0	99.8		
c		10.8	100.0	✓	
1/4		10.8	100.0		
cb		10.4	100.4		
S		7.0	103.8	✓	
PLOTTED 20' W					
S		5.5	105.3	✓	
cb		10.9	99.9		
1/4		12.6	98.2		
T.P.	6.06	106.54	100.35	100.48	
c			7.3	99.7	✓
1/4			8.4	98.1	
cb			10.3	96.2	
N			12.3	94.2	✓
+10			12.4	94.1	
20' W					
-30			15.4	91.1	
-20			17.4	89.1	
N			14.4	92.1	✓
cb			12.2	94.2	
1/4			9.0	97.5	

106.5

Q ST
8

C		6.0	100.5	✓
1/4		3.9	102.6	
cb		2.9	102.6	
S		1.4	105.1	✓
120' W				
S		1.4	105.1	✓
cb		6.7	99.8	
1/4		9.5	97.0	
c		11.9	94.6	✓
T.P.	0.15	094.64	120.5	094.49
1/4		2.2	92.4	
cb		3.5	91.1	
1/4		3.7	91.9	✓
150' W				
N		9.4	85.2	✓
cb		8.0	86.6	
1/4		6.4	88.2	
c		4.1	90.5	✓
1/4		3.0	91.6	
cb		2.0	92.6	
S		1.3	93.7	✓
200' W				
S		7.0	87.6	✓
cb		9.0	85.6	
1/4		9.7		

094.64

C		10.1	825	✓
1/4		11.5	831	
cb		11.5	831	
N		11.1	825	✓
+10		8.8	858	

250' W

N		9.7	869	✓
cb		12.1	825	
1/4		15.1	795	
C		12.8	818	✓
1/4		11.6	830	
cb		9.4	859	
S		6.6	880	✓
T.P.	696	88.53	1307	81.57

300' W

S		2.6	859	✓
cb		6.4	821	
1/4		9.0	795	
+5		10.8	777	
C		9.8	787	✓
1/4		7.4	811	
cb		5.3	832	
N		3.0	855	✓

350' W

N		0.7	878	✓
cb		3.5	850	

885

Q-57

3

1/4		5.9	826	
C		7.4	811	✓
1/4		9.5	790	
cb		12.6	759	
S		10.6	779	✓
+15		6.6	819	

400' W

S		12.2	763	✓
cb		13.1	750	
1/4		13.1	751	
C		10.5	780	✓
1/4		8.1	800	
cb		5.8	827	
N		4.3	842	✓

425' W

-10		7.7	810	
N		6.2	823	✓
cb		7.2	813	
1/4		9.3	792	
C		12.0	765	✓
1/4		13.2	753	
cb		13.6	709	
S		13.7	748	✓
+20		11.7	768	

88.53

450' W

-20	12.7	758
S	13.7	748 ✓
cb	14.1	744
1/4	14.0	745
C	14.4	741 ✓
1/4	12.8	757
cb	12.1	764
N	12.2	763 ✓
+10	8.9	776

475' W
PLOTTED

N	6.7	81.8 ✓
cb	9.0	795
1/4	11.0	775
C	13.0	755 ✓
1/4	14.2	743
cb	14.4	741
S	14.5	740 ✓
T.P.	7.23	84.17
	11.59	76.94

500' W

S	10.2	760 ✓
cb	10.3	739
1/4	9.7	745
C	7.9	763 ✓
1/4	5.1	79.1
cb	3.2	81.0
N	1.7	82.5 ✓

80.7

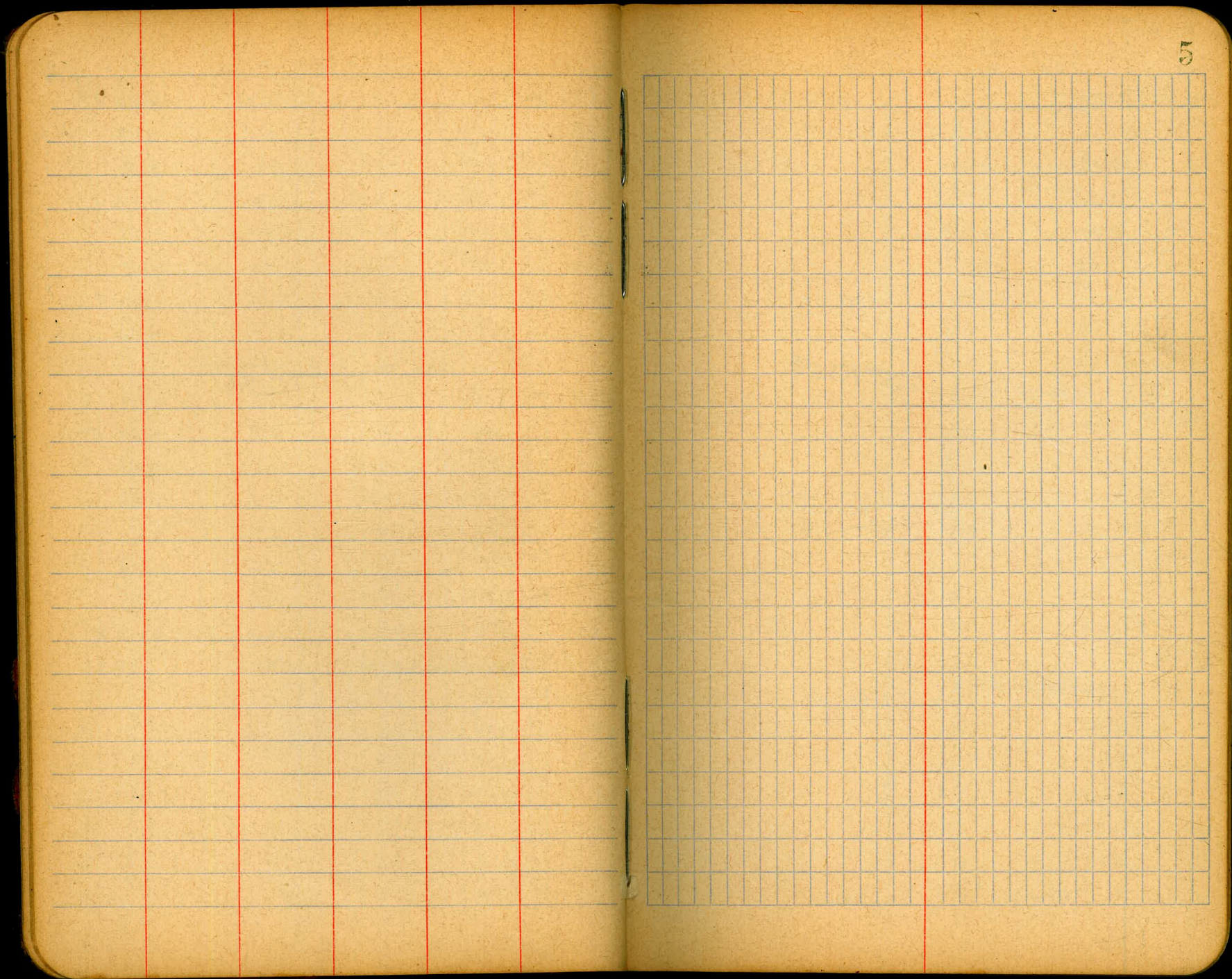
Q ST

550' W

N	0.2	84.0 ✓
cb	2.4	81.8
1/4	3.7	80.5
C	5.9	78.3 ✓
1/4	7.7	76.5
cb	9.7	74.5
S	10.9	73.3 ✓
+20	11.8	72.4

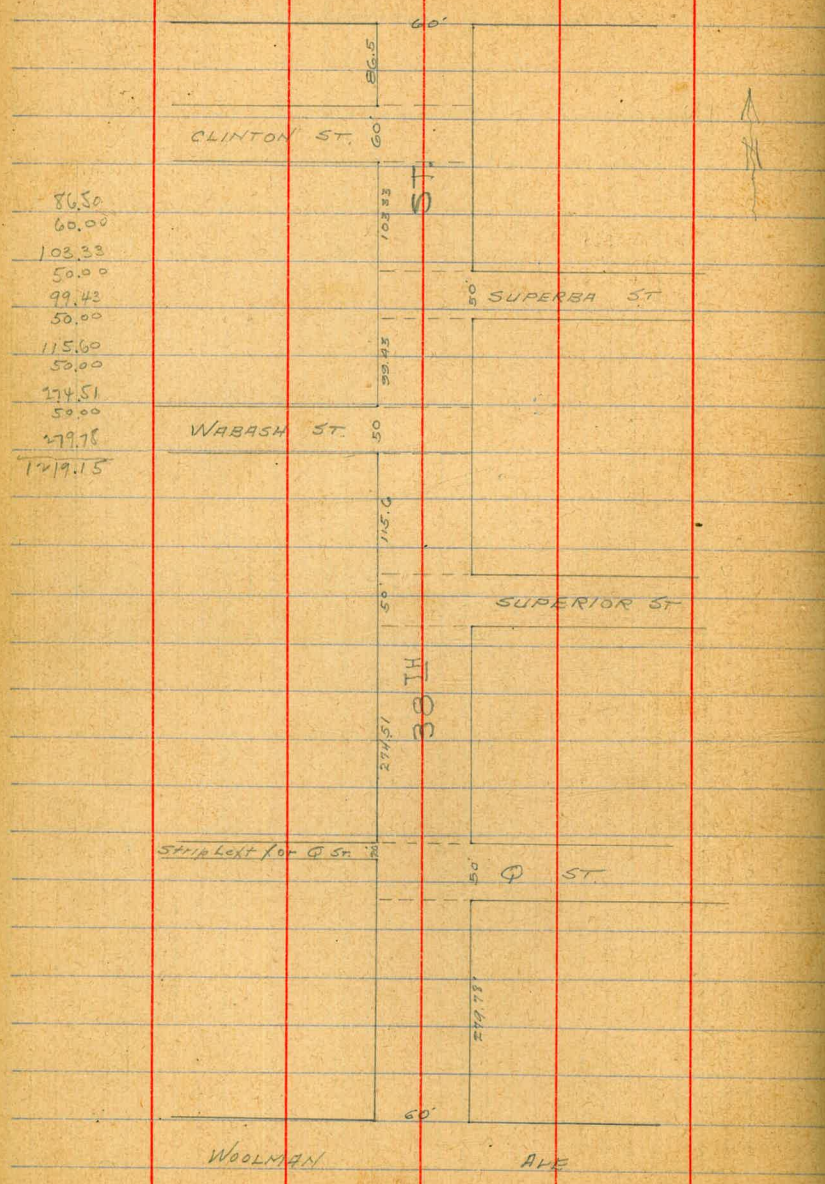
600' W = E L 38th ST.

-20	13.1	71.1
S	13.3	70.9 ✓
cb	11.7	72.5
1/4	9.6	74.6
C	8.1	76.1 ✓
1/4	6.4	78.8
cb	4.7	79.5
N	3.0	81.2 ✓
CHK Finish Stake N.W. Woolmer + 38 th	4.20	79.97



John Gregory Moore

CROSS-SECTION OF
38TH ST. (60' WIDE)
From N.L. Woolman Ave.
To S.L. Siegel = M. St.



84. VHS

38TH ST

TR.	420	84.17	77.97
	N.L. WOOLMAN AVE.		
W		40	802
cb		42	800
1/4		44	798
C		3.7	805
1/4		3.8	804
cb		3.2	810
E		3.0	812
PLOTTED 50' No.			
E		6.6	77.6
cb		6.7	87.5
1/4		6.8	77.4
C		7.0	77.2
1/4		6.7	77.5
cb		7.1	77.1
W		7.4	76.8
100' No.			
W		11.4	73.8
cb		11.0	73.2
1/4		10.7	73.5
C		10.8	73.4
1/4		11.1	73.1
cb		11.4	72.8
E		11.0	73.2

84.17

150' No.

E	7.7	76.5
cb	9.1	75.1
1/4	10.3	73.9
C	10.8	73.4
1/4	11.7	72.5
cb	12.3	71.9
W	12.8	71.4

175' No.

W	12.6	71.6
cb	11.8	72.4
1/4	11.3	72.9
C	10.6	73.6
1/4	9.5	74.7
cb	8.1	76.1
E	6.1	78.1

200' No.

E	8.8	75.4
cb	10.0	74.2
1/4	11.5	72.7
C	12.3	71.9
1/4	7.0	77.2
cb	13.4	70.8
W	13.6	70.6

84.2 No.

38th St

230' No.

W	16.3	67.9
cb	15.9	68.3
1/4	15.5	68.7
C	15.0	69.2
1/4	15.0	69.2
cb	14.7	69.5
E	14.0	70.2

280' No. = S.L. Q ST (see sketch.)

PLOTTED

E	13.3	70.9
cb	13.6	70.6
1/4	14.3	69.9
C	14.6	69.6
1/4	14.4	69.8
cb	14.2	70.0
W	14.2	70.0

So. CURB

W	13.1	71.1
cb	13.3	70.9
1/4	13.3	70.9
C	13.8	70.4
1/4	13.2	71.0
cb	12.3	71.9
E	11.6	72.6

84.17
50' 1/4

E.	9.6	74.6
cb	11.2	73.0
1/4	11.9	72.3
C	12.6	71.6
1/2	12.4	71.8
cb	12.3	71.9
W	12.3	71.9

CENTER

W	11.4	72.8
cb	11.3	72.9
1/4	11.3	72.9
C	11.1	73.1
1/2	10.5	73.7
cb	9.9	74.3
E	8.0	76.2

No. 1/4

E	6.5	77.7
cb	8.1	75.8
1/4	8.8	75.4
C	9.8	74.4
1/2	10.4	73.8
cb	10.6	73.6
W	10.4	73.8

84.233

Q ST

No. CURB

W	2.7	74.5	8
cb	9.7	74.5	
1/4	9.5	74.7	
C	8.1	75.8	
1/2	7.5	76.7	
cb	7.2	77.0	
E	4.5	79.7	

No. L. Q ST

E	3.0	81.2
cb	4.9	79.3
1/4	6.3	77.9
C	7.2	77.0
1/2	8.2	76.0
cb	8.7	75.5
W	9.0	75.2

PLOTTED

50' No.

W	2.9	81.3		
cb	3.5	80.7		
1/4	3.4	80.8		
C	2.6	81.6		
1/2	2.2	82.0		
cb	1.3	82.9		
T.P.	11.46	91.88	0.75	83.42
E			10.6	84.3

94.88

100' No.

E	6.8	88.1
cb	8.2	86.7
1/4	8.7	86.2
C	9.0	85.9
1/2	9.5	85.4
cb	9.7	85.2
W	9.3	85.6

150' No.

W	3.7	91.2
cb	4.1	90.8
1/4	4.5	90.4
C	4.1	90.8
1/2	4.2	90.7
cb	5.8	91.1
E	8.8	92.1
T.P.	9.53	103.82
	0.89	93.99

200' No.

E	6.6	97.2
cb	7.9	95.9
1/4	8.2	95.6
C	8.1	95.7
1/2	8.8	95.0
cb	8.9	94.9
W	9.2	94.6

103.8 ~~83~~

38TH ST

250' No.

W	5.7	98.1
cb	5.3	98.5
1/4	5.0	98.8
C	4.1	99.7
1/2	3.7	100.1
cb	3.9	99.9
	2.8	101.5
E	1.3	102.5

275' No. = S.L. SUPERIOR ST. (50' WIDE)

E	0.2	103.6
cb	1.1	102.7
	2.8	101.0
1/4	2.3	101.5
C	2.6	101.3
1/2	3.9	99.9
cb	4.1	99.7
W	4.5	99.3

50' CURB

W	4.3	99.5
cb	3.6	100.2
1/4	3.2	100.6
C	2.0	101.8
1/2	1.7	102.1
cb	1.8	102.0
E	0.4	103.4

PLOTTED

50' 1/4

E	0.7	103.1
cb	1.0	102.8
1/4	1.3	102.5
C	1.8	102.0
1/4	3.0	100.8
cb	3.4	100.4
W	3.9	99.9

CENTER

W	3.5	100.3
cb	3.0	100.8
1/4	2.7	101.1
C	1.6	102.2
1/4	1.0	102.8
cb	0.7	103.1
E	0.4	103.4

No. 1/4

E	0.6	103.2
cb	0.7	103.1
1/4	0.9	102.9
C	1.3	102.5
1/4	2.4	101.4
cb	2.7	101.1
W	3.3	100.5

No. CURB

W	2.9	101.1
---	-----	-------

cb	2.3	101.5
1/4	2.2	101.6
C	1.0	102.8
1/4	0.9	102.9
cb	0.7	103.1
E	0.0	103.8

N.L. SUPERIOR ST

T.P. 196	105.31	0.47	103.35
E	0.5	104.8	
cb	0.9	104.4	
1/4	2.2	103.1	
1/4	2.2	103.1	
C	2.4	102.9	
1/4	3.5	101.8	
cb	3.5	101.8	
W	3.5	101.8	
W	3.6	101.7	
W	3.6	101.7	
cb	3.2	102.1	
1/4	2.8	102.5	
C	2.3	103.0	
1/4	2.2	103.1	
cb	2.6	102.7	
cb	0.8	104.5	
E	0.0	105.3	

PLOTTED

50' No

10531 H3

100' No.

E	2.1	103.2
cb	3.7	101.6
	5.4	99.9
1/4	5.3	100.0
C	5.6	99.7
1/4	6.5	98.8
cb	6.9	98.4
W	8.0	97.3

115.6' No. = S.L. WABASH ST. (50' WIDE)

W	9.4	95.9
cb	8.3	97.0
1/4	7.4	97.9
C	6.4	98.9
1/4	5.7	99.6
cb	5.5	99.8
	4.3	101.0
E	2.6	102.7

So. CURB

E	3.0	102.3
cb	4.3	101.0
	5.5	99.8
1/4	6.0	99.3
C	6.5	98.8
1/4	7.6	97.7
cb	9.0	96.3
W	9.6	95.7

10533 H3

38TH ST

So. 1/4

W	10.1	95.2
cb	8.8	96.7
1/4	7.7	97.6
C	6.6	98.7
1/4	6.0	99.3
cb	5.0	100.3
E	3.4	101.9

CENTER

E	3.2	102.1
cb	4.5	100.8
	5.7	99.6
1/4	6.1	99.2
C	6.6	98.7
1/4	7.6	97.7
cb	9.0	96.3
W	10.1	95.2

PLOTTED

No. 1/4

W	10.7	94.6
cb	9.4	95.9
1/4	8.0	97.3
C	6.9	98.4
1/4	6.4	98.9
	6.2	99.1
cb	4.6	100.7
E	3.5	101.7

105.31

No. CURB

E	3.5	101.8
cb	4.5	100.8
1/4	6.6	98.7
1/2	6.7	98.6
C	7.3	98.0
1/4	8.2	97.1
cb	9.3	96.0
W	10.6	94.7

N.L. WABASH ST

W	12.2	93.1
cb	9.5	95.8
1/4	8.3	97.0
C	7.3	98.0
1/4	6.9	98.4
cb	4.7	98.6
E	3.7	100.8
		100.6

50' No.

E	5.4	99.9
cb	7.5	97.8
1/4	9.0	96.3
C	9.7	95.6
1/4	10.4	94.9
cb	12.4	92.9
W	14.7	90.6

105.3 49

38TH ST

99.43

49.43

No. = S.L. SUPERBA ST.

12

W	12.5	92.8
cb	11.9	93.4
1/4	10.9	94.4
C	9.4	95.9
1/4	9.4	95.9
cb	9.3	96.0
E	6.2	99.1

50. CURB

E	6.4	98.9
cb	8.4	96.9
1/4	8.9	96.4
C	9.2	96.1
1/4	9.6	95.7
cb	10.1	95.2
W	11.1	94.2

PLOTTED

50. 1/4

W	9.9	95.4
cb	9.1	96.2
1/4	9.0	96.3
C	8.7	96.6
1/4	8.4	96.9
cb	7.6	97.7
E	6.1	99.2

CENTER

E	5.6	99.7
cb	6.9	98.4
1/4	8.1	97.2
C	8.3	97.0
1/4	8.4	96.9
cb	8.9	96.4
W	9.5	95.8

No. 1/4

W	9.5	95.8
cb	8.9	96.4
1/4	8.0	97.3
C	7.9	97.4
1/4	7.8	97.5
cb	7.0	98.3
E	6.3	99.0

No. CURB

E	5.4	99.9
cb	6.9	98.4
1/4	7.5	97.8
C	7.7	97.6
1/4	7.8	97.5
cb	9.2	96.1
W	10.0	95.3

No. L. SUPERBA ST.

13

W	10.1	95.2
cb	9.5	95.8
1/4	8.6	96.7
C	7.4	97.9
1/4	7.3	98.0
cb	6.3	99.0
E	4.3	101.0
50' No.		
E	2.4	102.9
cb	4.7	100.6
1/4	6.5	98.8
C	6.2	99.1
PLOTTED		
C	6.4	98.9
1/4	7.8	97.5
cb	9.9	95.4
W	10.1	95.2
103.33' No. = SL CLINTON 57/60' WIDE		
W	7.6	97.7
cb	6.4	98.9
1/4	5.7	99.6
C	4.7	100.6
1/4	4.5	100.8
TP	5.65	106.59
cb	4.37	100.94
1/4	1.3	105.3
E	0.0	106.6

106.59

So. CURB

E	00	106.6
cb	23	104.3
1/4	5.6	101.0
C	58	100.8
1/4	6.4	100.2
cb	7.2	99.4
W	8.5	98.1

So. 1/4

W	7.9	98.7
cb	6.7	99.9
1/4	6.1	100.5
C	5.7	100.9
1/4	5.6	101.0
cb	8.8	103.8
E	0.8	105.8

CENTER

E	1.8	104.8
cb	3.6	103.0
1/4	5.7	100.9
C	5.7	100.9
1/4	5.7	100.9
cb	6.4	100.2
W	7.1	99.5

106.64E

38TH ST

No. 1/4

14

W	6.8	99.8
cb	5.9	100.7
1/4	5.6	101.0
C	5.8	100.8
1/4	5.8	100.8
cb	3.7	102.9
E	2.2	104.4

No. CURB

E	2.8	103.8
cb	3.9	102.7
1/4	6.1	100.5
C	6.0	100.6
1/4	5.6	101.0
cb	6.0	100.6
W	6.8	99.8

PLOTTED

N.L. CLINTON ST

W	6.5	99.8
cb	6.4	100.2
1/4	6.3	100.3
C	6.3	100.3
1/4	6.3	100.3
cb	3.9	102.7
E	3.2	103.4

106.59

50' No.

15

E		7.0	99.6
cb		7.6	99.0
1/4		8.5	98.1
C		8.7	97.9
1/4		9.3	97.3
cb		9.0	97.6
N		9.0	97.6

865' No. = S.L.M. 5T

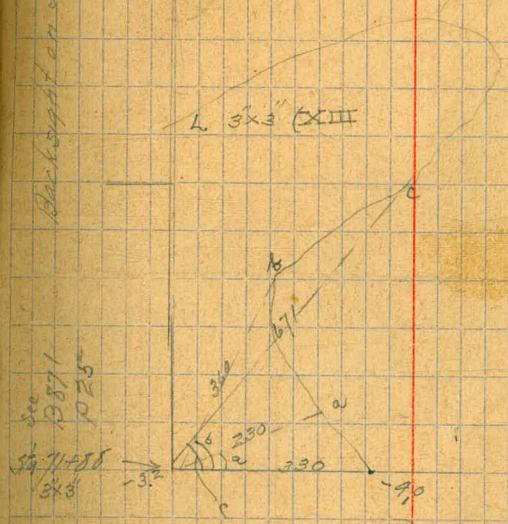
W		10.5	96.1	
cb		10.5	96.1	
1/4		10.2	95.7	
C		10.7	95.9	
1/4		10.8	95.8	
cb		10.9	95.7	
E		10.6	96.0	
T.P.	12.16	116.55	2,40	104.39
T.P.	9.00	122.68	2.87	113.68
B.M.		2.89	119.79 = 119.82	511.500 + 11.

PLOTTER

1/26/15 Hotel Survey of Pt. 228
 Turn Hall for area

Run	262	11.16	10.536	Concord
	5.04	5.60	10.60	Waterby
	5.00	2.67	7.93	
x	4.52	1.90	5.29	
		5.90	-4.00	

Backlight on 1/2 58+634 4x5 (300)



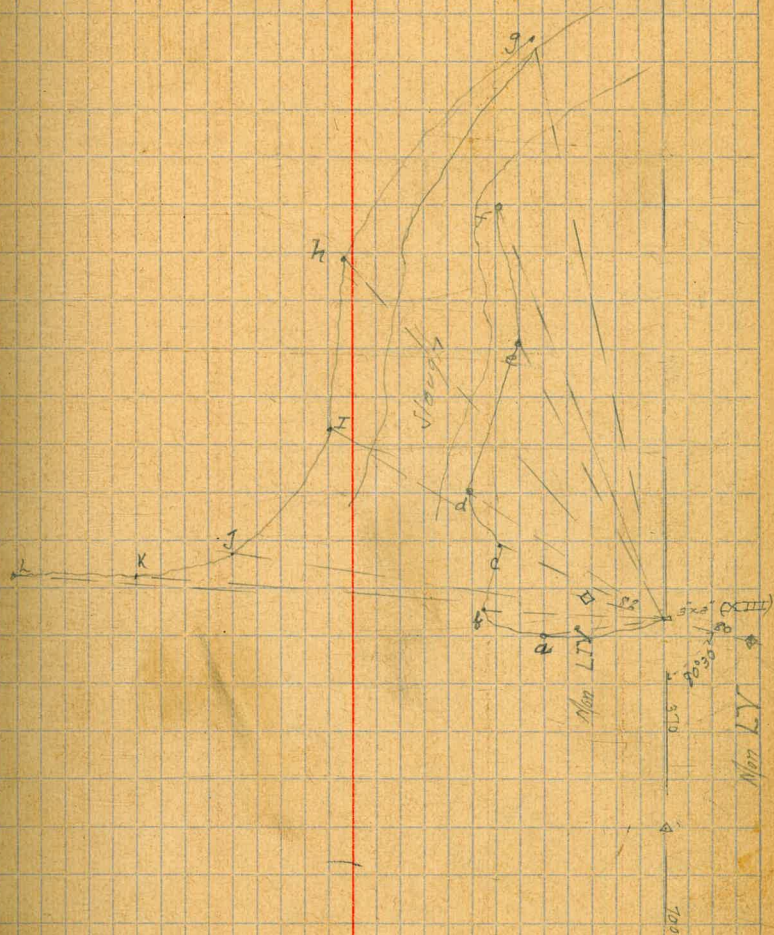
a = 32'16"	230	J = 71'10"	1370
b = 69'15"	360	K = 76'45"	1220
c = 59'15"	671	L = 90°	1070 (XIII)
d = 46'15"	1120		
e = 42'45"	1350		
f = 39'50"	1690 (XVIII)		
g = 45'30"	2030		
h = 53'20"	1936		
i = 59'30"	1560 (XII)		

04x5 "226"

4/12/15 Latta Stadia
 Moore Survey Pl. 231, 232
 Hall to determine Reg. bore - 4.0 Elev

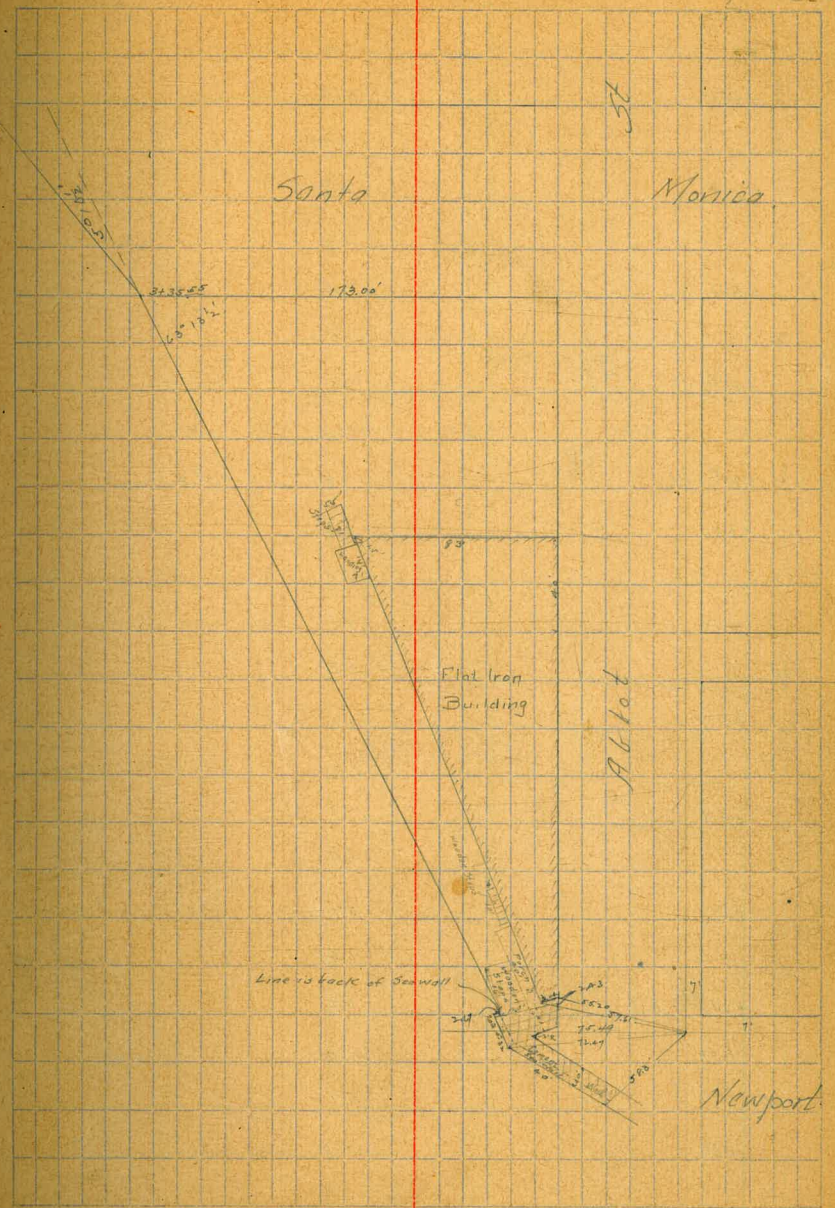
TP	422	160	-262	Jan 17
	392	0.62	490	-330
Non(LIT)	477	1.01	438	-376 BM
			501	-400

a = 100°30' L 90 ✓	a = 77°20' L 1426 ✓
b = 85°30' L 170 ✓	p = 75°25' L 1674 = 210 W of
c = 54°20' L 172 ✓	W. of Atlantic, and 10' N. of
d = 39°30' L 235 ✓	Q Wright St
e = 13°15' L 367 ✓	
f = 11°10' L 525 ✓	
g = 7°50' L 810 ✓	
h = 27°30' L 575 ✓	
i = 43°20' L 475 ✓	
j = 66°15' L 550 ✓	
k = 72°30' L 680 ✓	
l = 77°50' L 845 ✓	
M = 79°20' L 1020 ✓	
N = 80°00' L 1226 ✓	



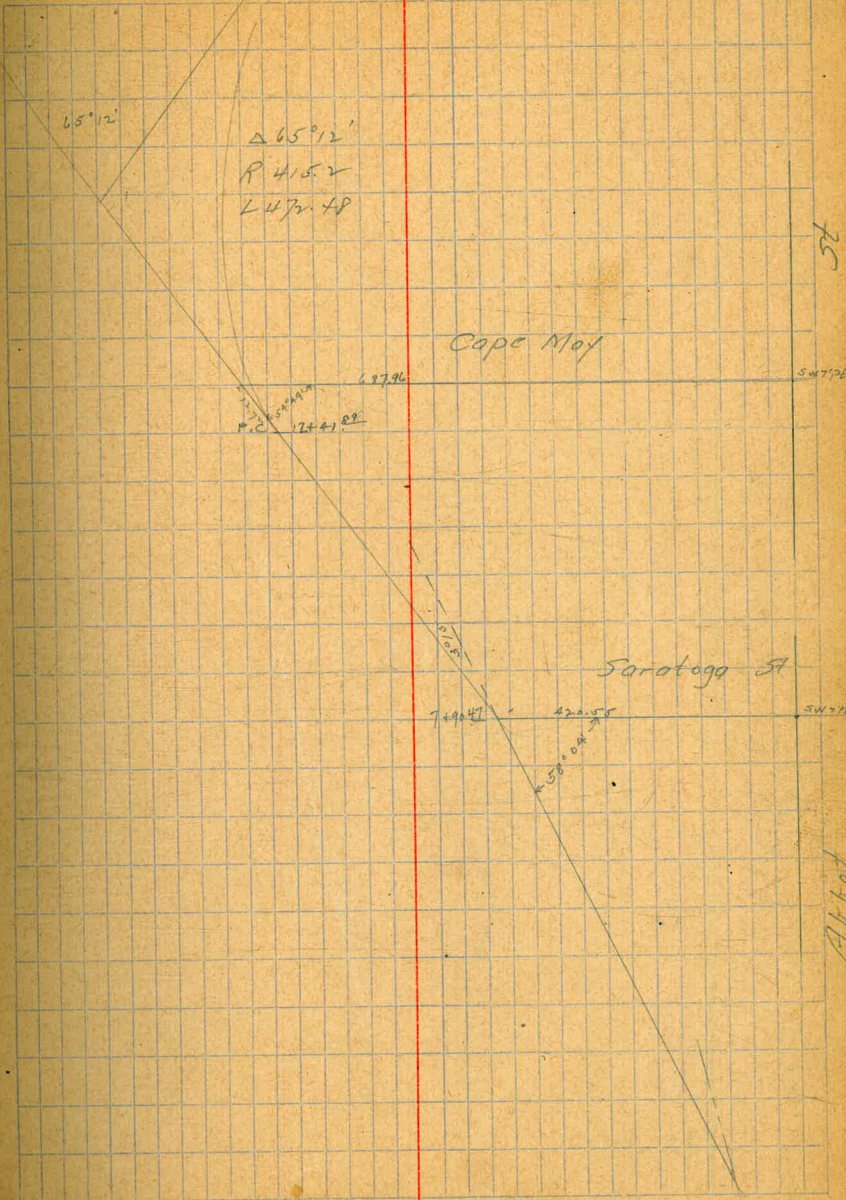
5x3
 Sta 71498
 Jan P. 17.

Levels over M.H. Tide Line	Abbott St to Blkhd.	
Sta +	-	Elev. $\frac{12}{11}$
2.95	9.45	6.50 NW Blkhd.
T.P. 1.08	10.64	-1.19
0.100 End present Wall	4.30	
+50	4.90	
1	5.0	
+50	5.1	
2	5.0	
+50	4.9	
3	4.8	
+550.56	4.8	
2.92	9.48	6.50 NW
T.P. 0.71	9.95	0.53
+50	5.3	
4	5.5	
+50	5.5	
5	5.5	
+50	5.6	
6	5.6	
+50	5.6	
7	5.5	
+50	5.2	
+9.42	5.3	
T.P. 7.34	5.25	-4.01
8	7.3	
+50	7.5	

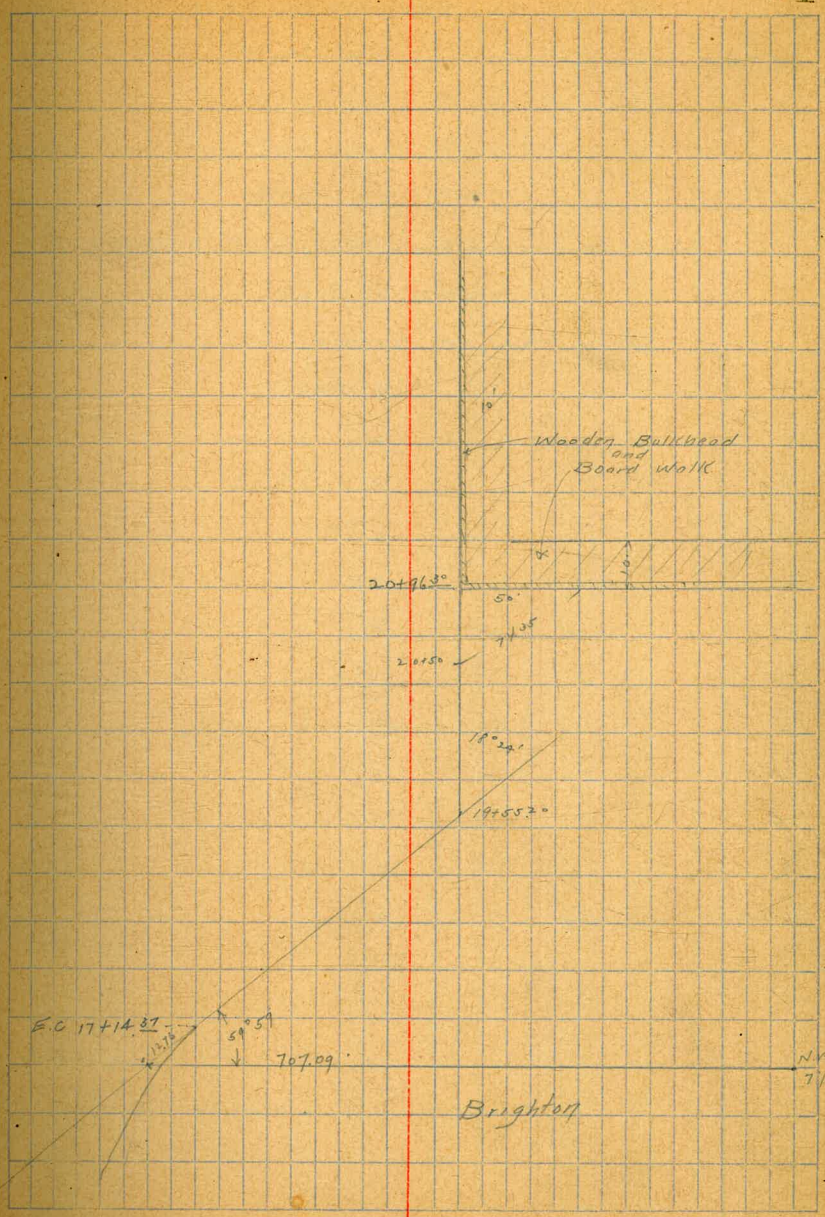


H.I.
3.33

9			7.3	
+50			7.2	
10			7.2	
+50			7.2	
11			7.4	
+50			7.5	
12			7.9	
+412 PC	$\frac{10}{2.15}$		7.2	-5.0
T.P	0.71	2.61	1.43	1.90
+412 PC	$\frac{10}{2.15}$		6.6	-4.0
+50			6.7	
13			7.0	
+50			7.1	
14			7.2	
+50			7.1	
15			7.1	
+50			7.1	
16			6.9	
+50			6.7	
17			6.4	
+412 ³⁷ E.C			6.3	
+50			6.0	
18			5.9	
+50			5.8	
19			5.9	



	M	-	F. 108
3.70	2.61		
19.50		5.9	
+55.20		5.9	
2.0		6.6	
+50		7.4	
+96.30		8.5	
Elev Top Wooden Bulkhead			+4.90



Borings Along N.H. Tide line (P. 19).

9+00	Sand stone	4.5' deep
1	" "	5.5 "
2	" "	6.0 "
3	" "	6.0 "

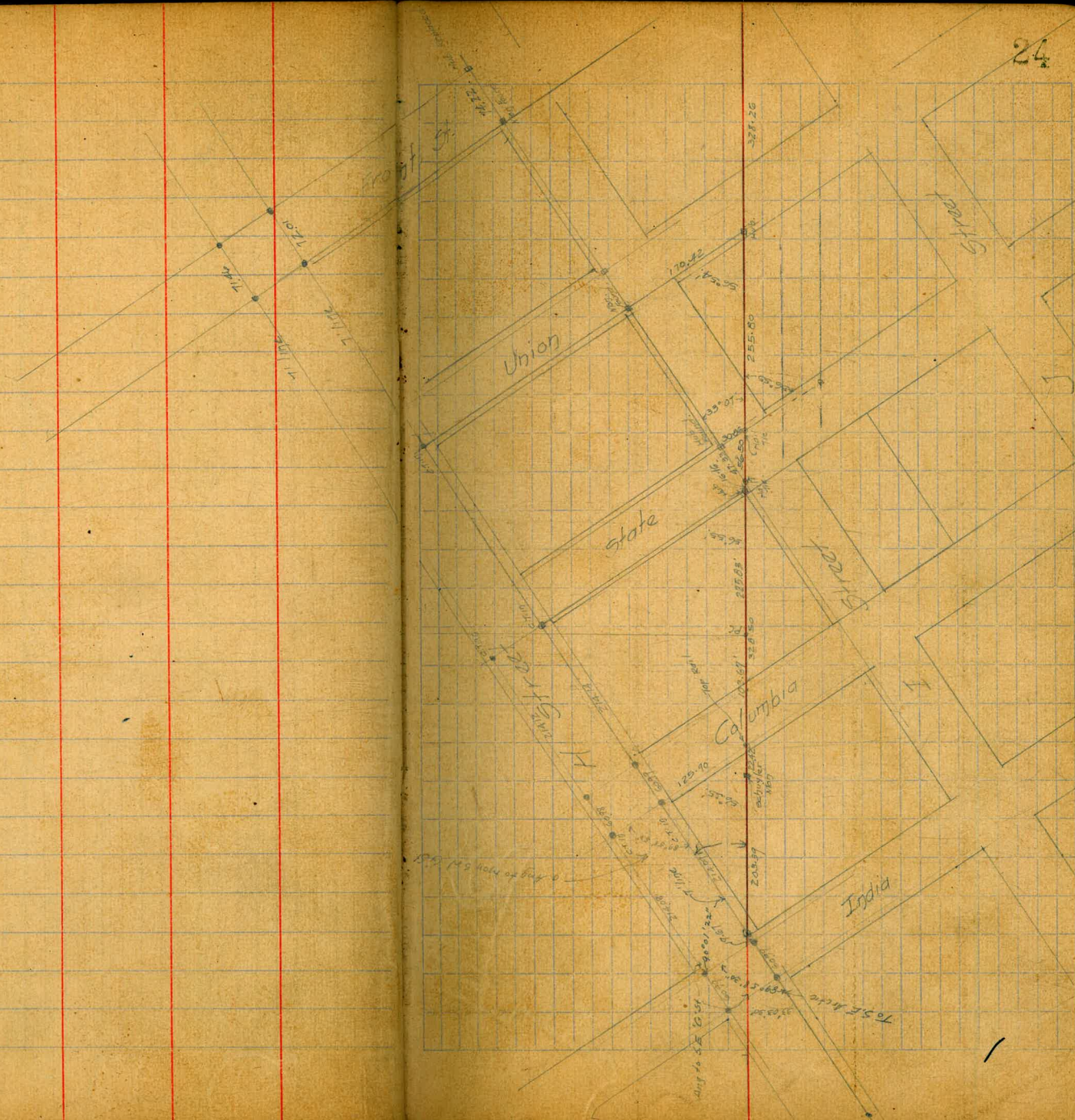
From Sta 3 to end no foundation struck at depth of 8'
100' West of Line

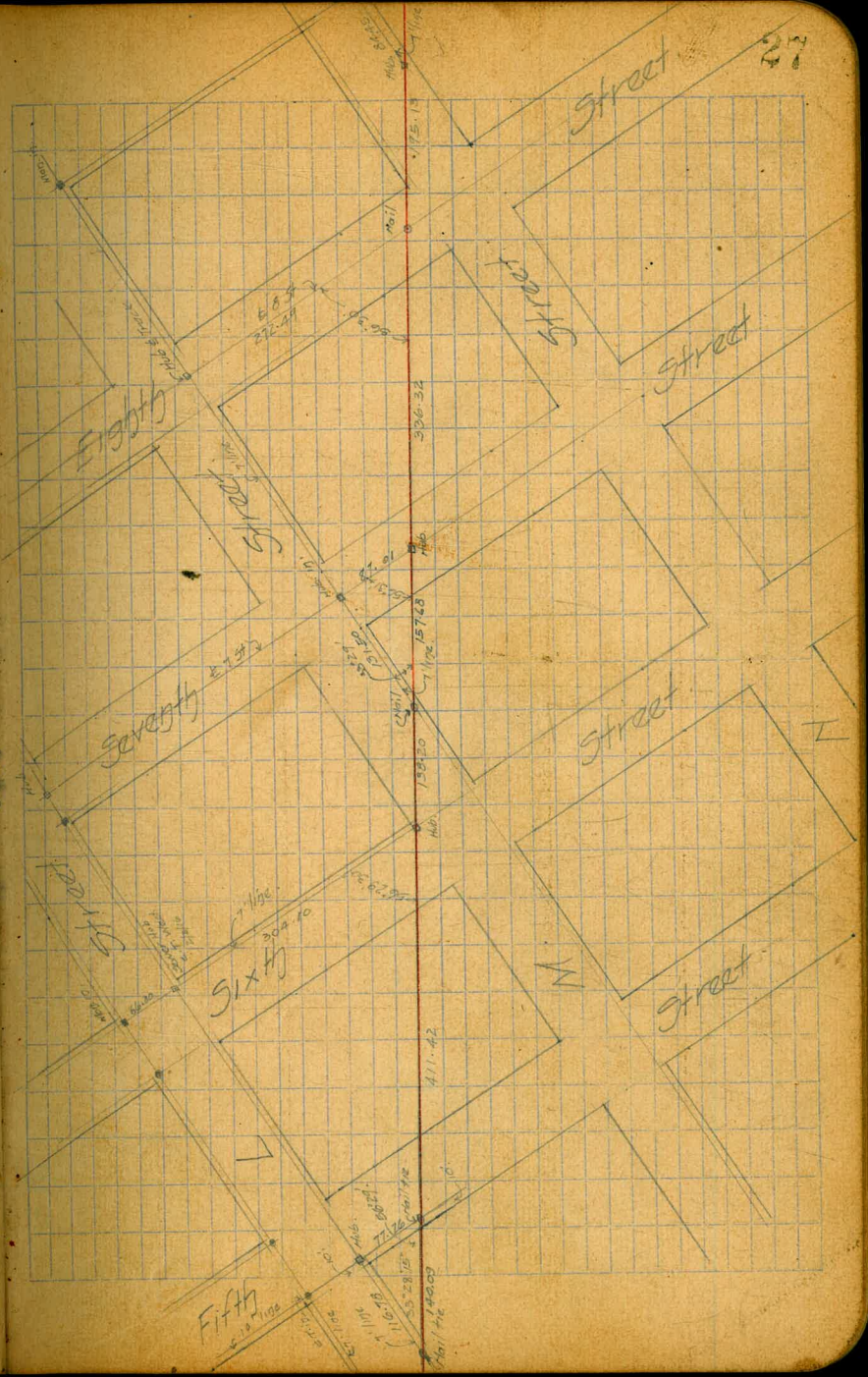
0+00	Sand Stone on Surface	
1	" "	2' deep
2	" "	4' "
3	" "	5' "
4	" "	6' "
6	Rock	7.5 "
8	Sand at	8'
10	" "	8'
12	" "	8'
14	" "	8'
16	" "	8'
18	" "	8'
20+96	Clay	6'

200' West

22

Sta 12	Sand stone	7' deep
14	Sand	8' "
16	Clay	5.5'
18	Sand	8.0'
20+96	Sandstone	3.5'



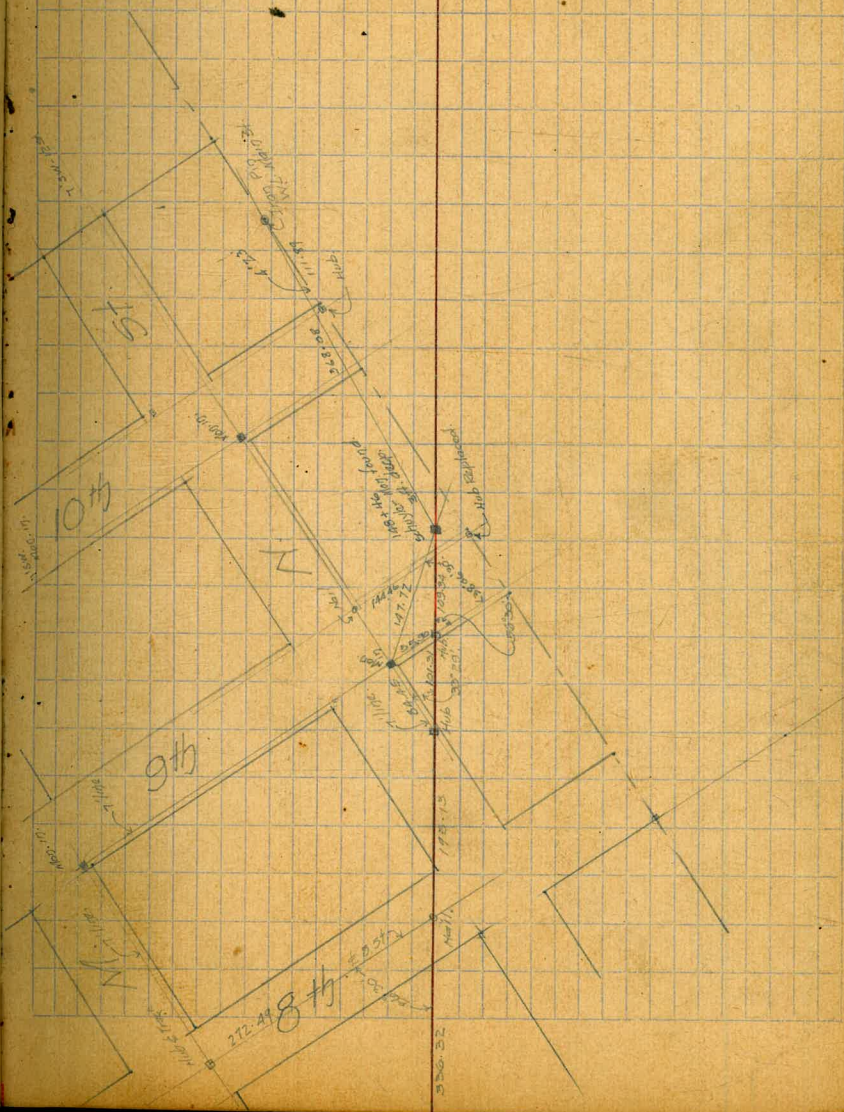


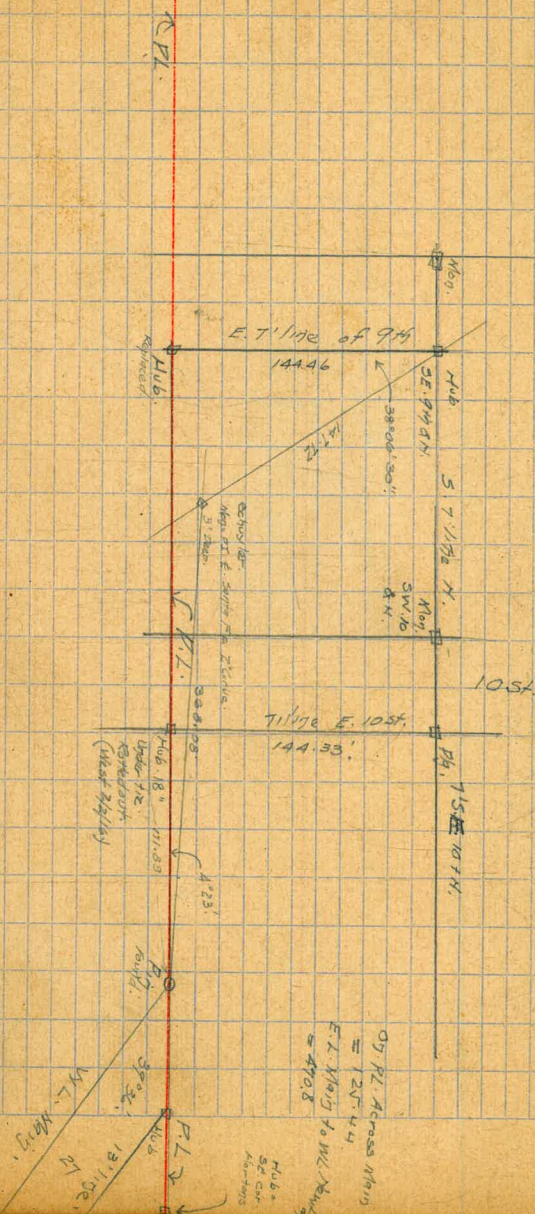
West
Otter 2/3/10.
Moore

The Point Survey to City Points
From Schuyler Base Line
For Harbor Tide Land Franchises

28

Copied into Book 1039

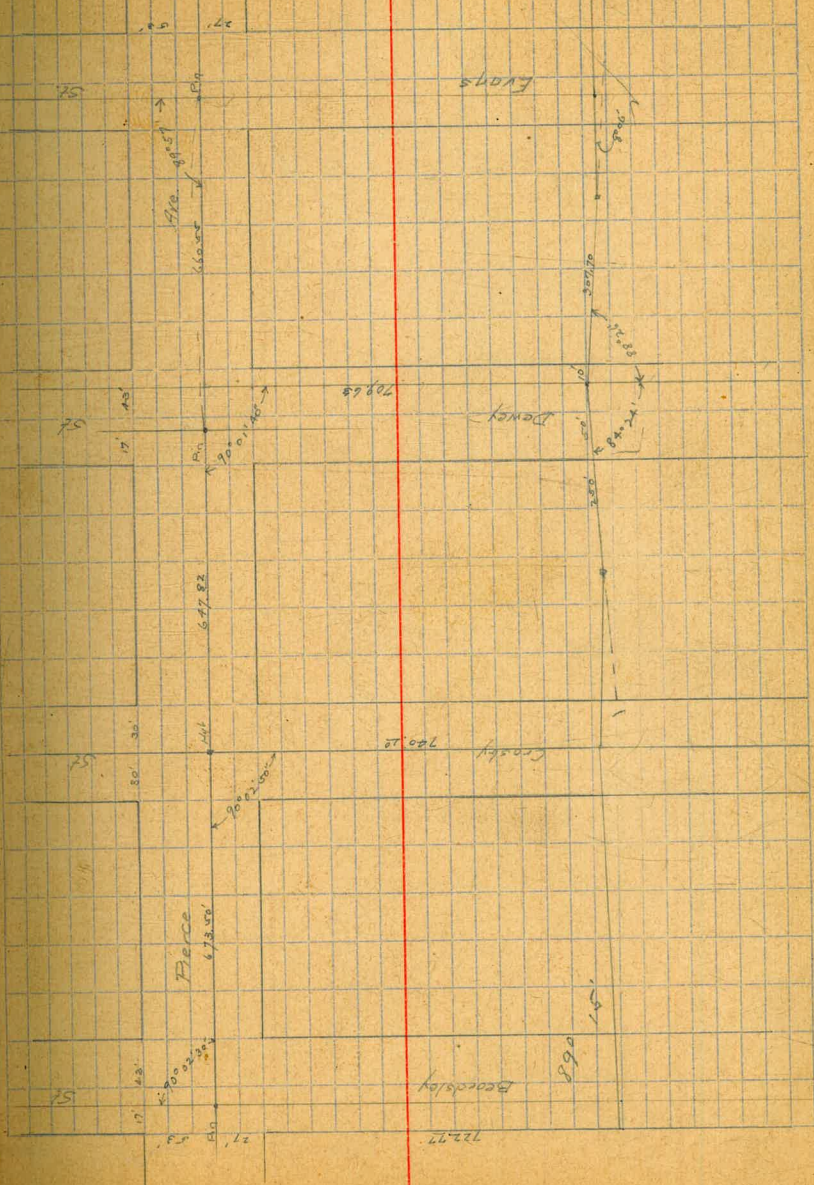


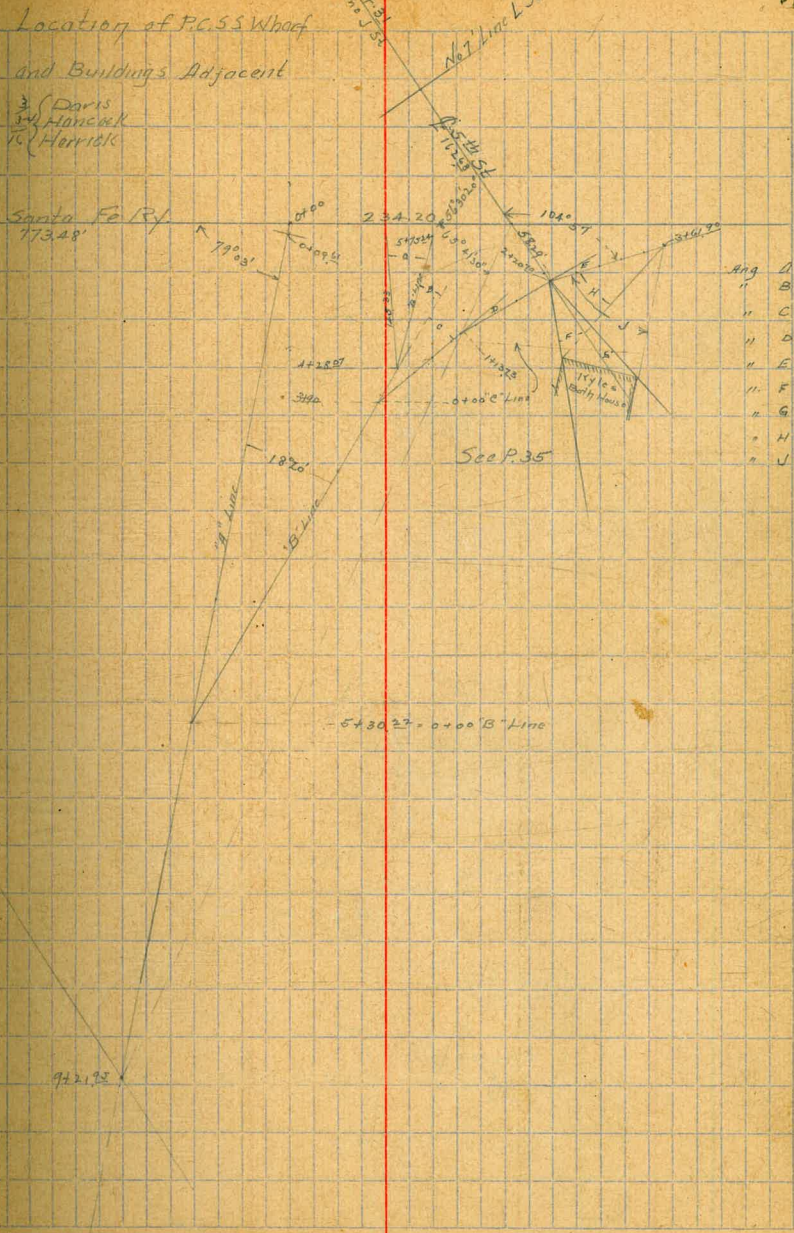


3 Davis
14 Hensford
16 Horner

Location of M.H. Tide Line Beardsley to Evans St.

	112	23.30	22.18	SE Main Street
TP	0.46	12.72	11.04	12.26
TP	1.33	3.82	10.23	2.49
	7.70	10.19	1.32	2.49
	6.05	12.07	4.17	6.02
Nail Top pile E Side Dewey			11.72	0.25
	0.56	-0.41	13.04	-0.97
Stake Foot of Evans			3.71	-4.12
Nail in Pile W Side Evans			3.29	-4.20
	0.46	0.81		0.35
	-0.46	-0.11		0.35





Location of R.C.S.S Wharf
and Buildings Adjacent
3 (Davis
4 Hancock
10 Herrick

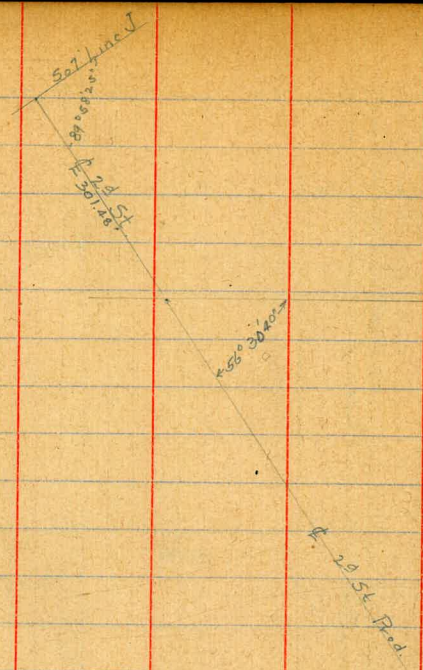
Santa Fe Ry
173.48'

- Ang A 20'56"
- " B 14'13"
- " C 19'51"
- " D 8'27"
- " E 13'53"
- " F 34'18"
- " G 8'17"
- " H 29'40"
- " J 60'22"

See P. 35

54.30 23 - 0+00 B Line

922135



527 Line J
24.54'

56' 30' 00''

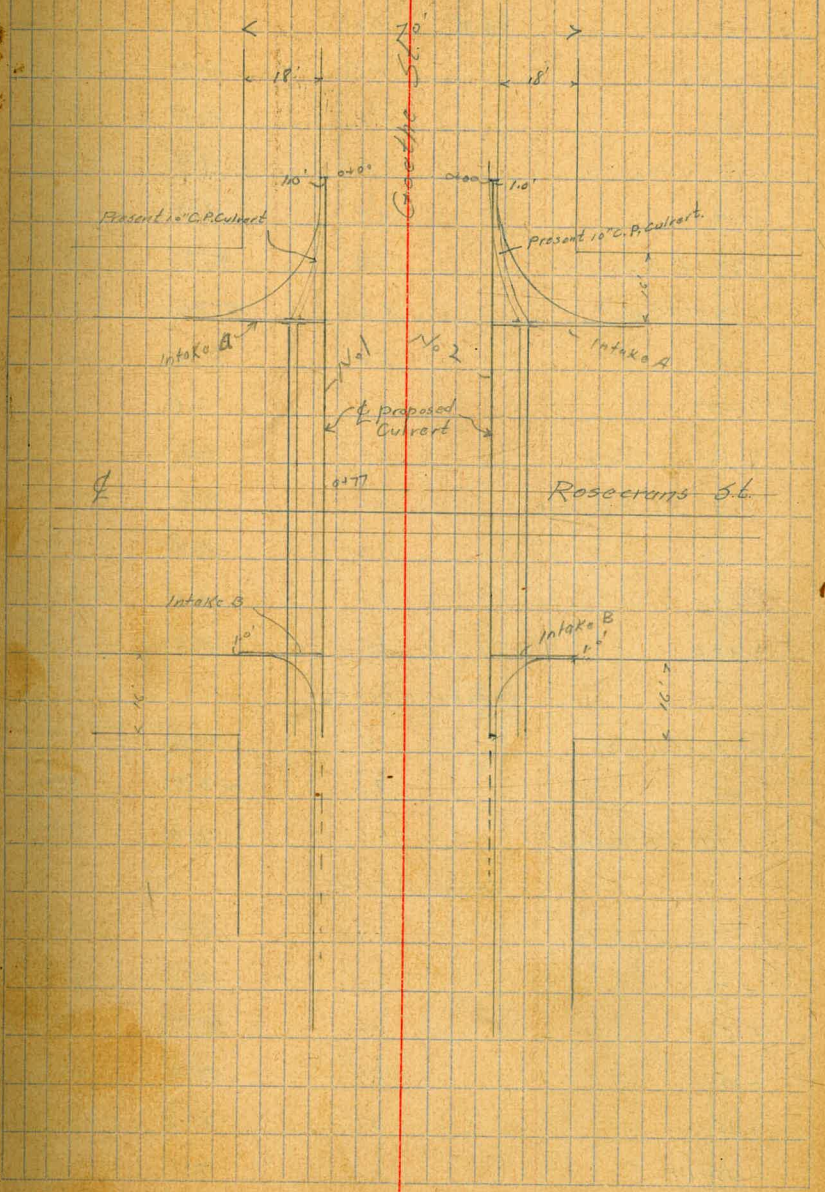
20 St. Road
79' 03'

3 (Dunn)
12 (Hancock)
16 (Herrick)

Levels over Proposed Culverts - Rosecrans & Goethe

Sta	4+6	6.62 7.62	Elev	2.16 B.M. R.R. Spk. on top
0+00: Butte Cul No 1		6.1	1.5	0.5
0+00: Top of "		4.90	2.7	1.7
+25		5.0	2.6	1.6
+44: Intake A		5.5	2.1	1.1
+50		5.4	2.2	1.2
+77: Rosecrans		5.3	2.3	1.3
+82.5: Top of rail		5.27	2.25	1.25
+90		5.3	2.3	1.3
+100		6.3	1.3	0.3
+12: Intake B		6.7	-0.9	-0.1
+127: E.L. Rosecrans		7.2	-0.4	-0.6
+50		8.6	-1.0	-2.0
+75		8.9	-1.3	-2.3
+200		9.3	-1.9	-2.9
Intake B Cul No 1				
0+00: +10 Cul No 1		6.7	-0.9	-0.1
+5		8.3	-0.7	-1.7
+19: S.L. Goethe		6.7	-0.9	-0.1
Intake A Cul No 1				
0+00: 0+44 Cul No 1		5.5	2.1	1.1
+7		7.8	-0.2	-1.2
+19: S.L. Goethe		6.7	-0.9	-0.1
+25		5.5	2.1	1.1
+1'E		6.8	-0.2	-0.2
+45		5.5	2.1	1.1
+1'E		6.9	-0.7	-0.3

Location of Proposed Culverts at Rosecrans & Goethe Sts



Culvert No. 2

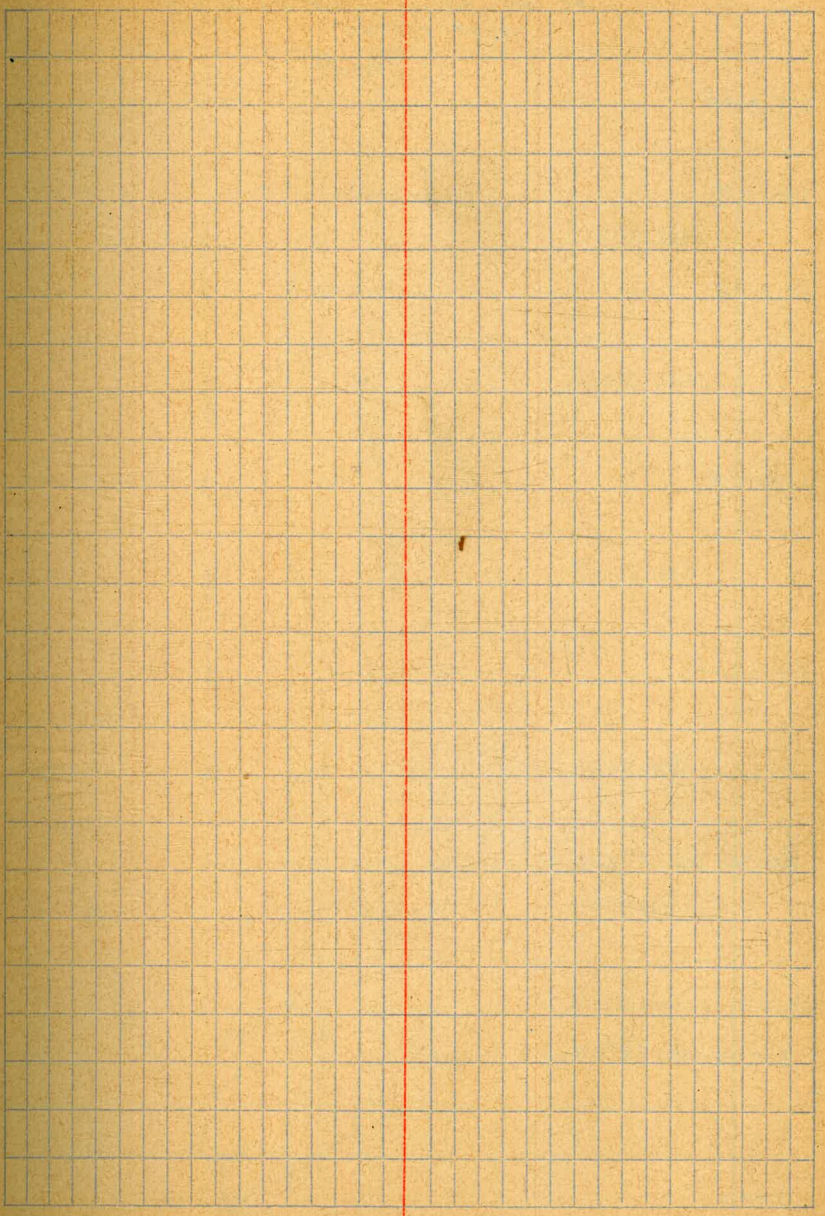
0+00 = Contr	6.62	5.9	1.7	0.7
0+00 = Top Ch		4.81	2.8	1.8
+25		5.6	2.0	1.0
+44 = Intake A		5.7	1.9	0.9
+50		5.7	1.9	0.9
+77 = Rosecrans		5.3	2.3	1.3
+125 = N. Rail		5.26	2.26	1.26
+90		5.2	2.2	1.2
+100		6.1	1.5	0.5
+10 = Intake B		6.2	1.2	0.2
+27 = E. Rosecrans		7.0	2.6	-0.4
+50		7.2	0.4	-0.6
+75		7.5	0.1	-0.9
+100		7.8	-0.2	-1.2

Intake B Cul #2

0+00 = Intake Cul No. 2		6.4	1.2	0.2
+6		8.3	-0.7	-1.7
+19 = N. Goethe		6.6	1.0	0.0

Intake A Cul #2

0+00 = Intake Cul #2		5.7	1.9	0.9
+7		7.5	0.1	-0.9
+15		5.6	2.0	1.0
+25		5.4	2.2	1.2
+45		5.1	2.5	1.5
+45 = 1'E		6.5	1.1	0.1
3'E		5.1	2.5	1.5



12/16/19 General
Miller
Shaw

Survey of Land
in P.L. 213 Claimed to
be all which remains above
high water.

22+10

20+48

17+69

14+03

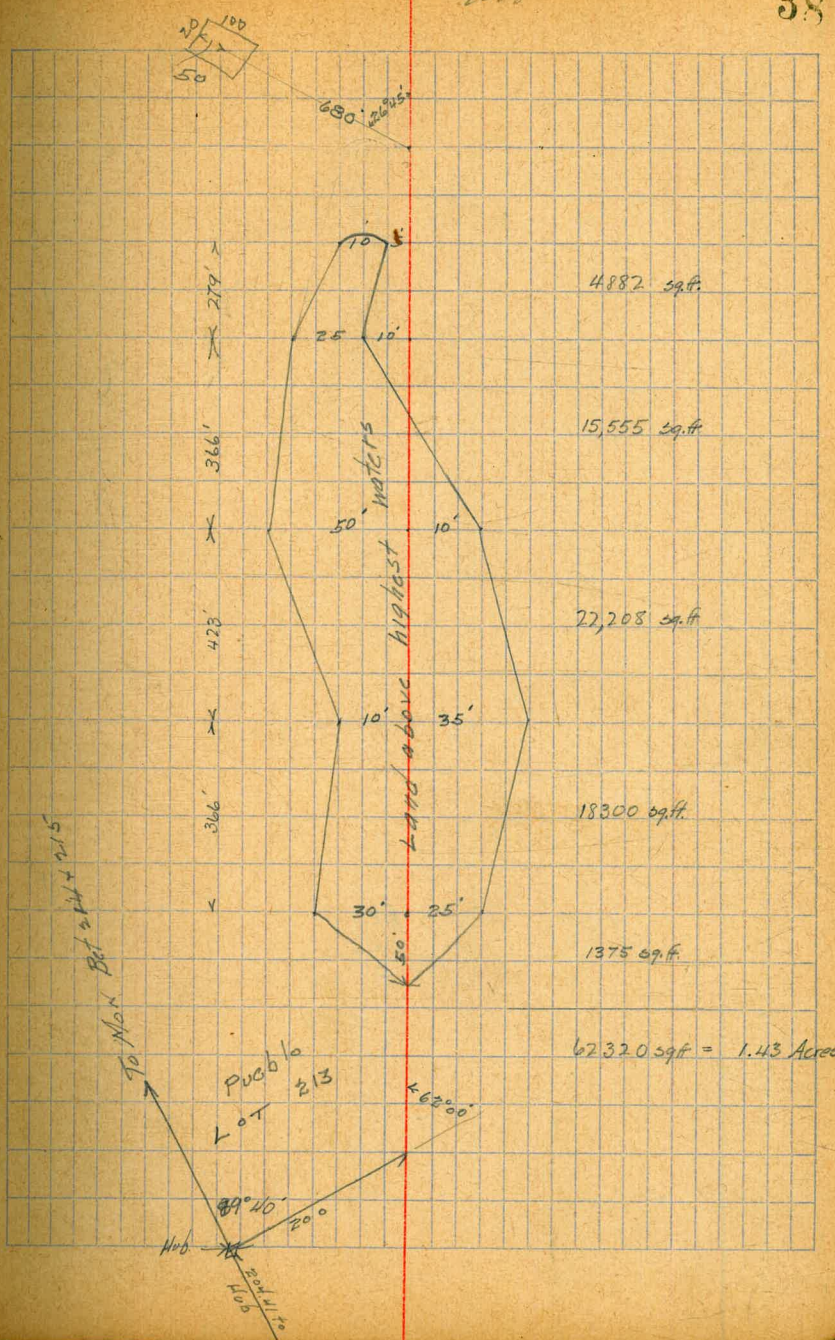
9+80

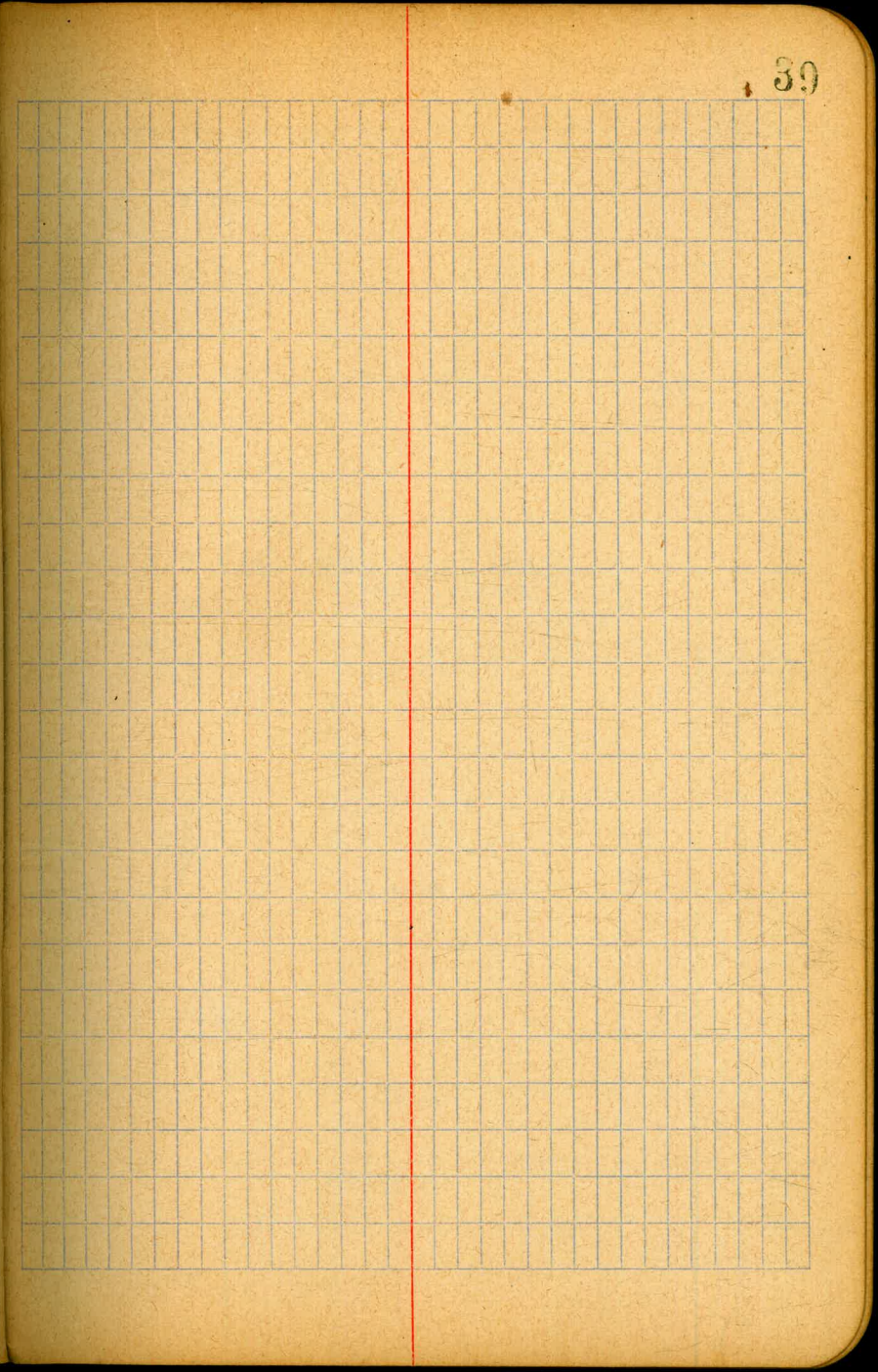
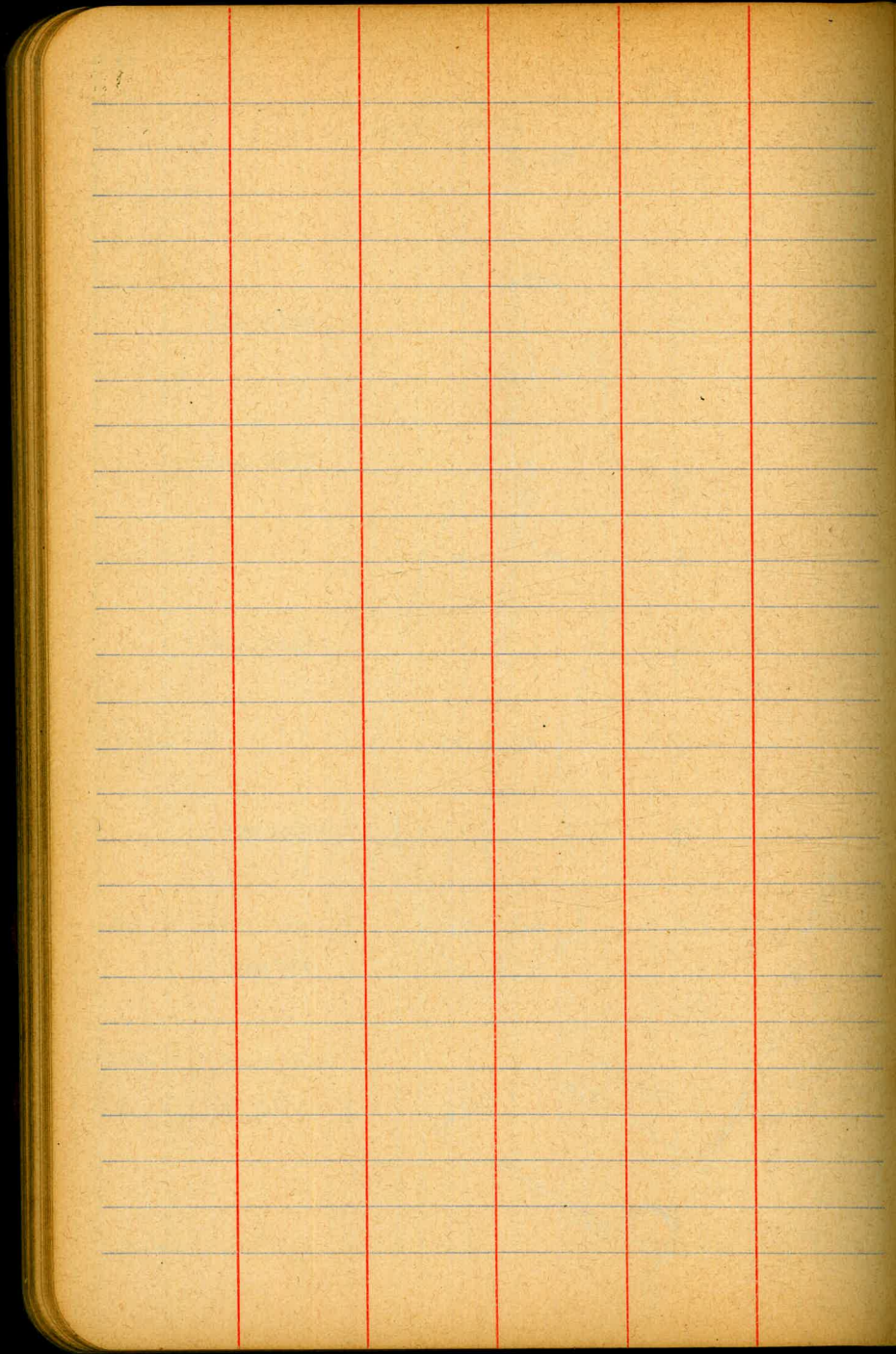
6414 Δ 7°53' R

2+00 Δ 62°00' L

0+00

22 10
10 2
20 13

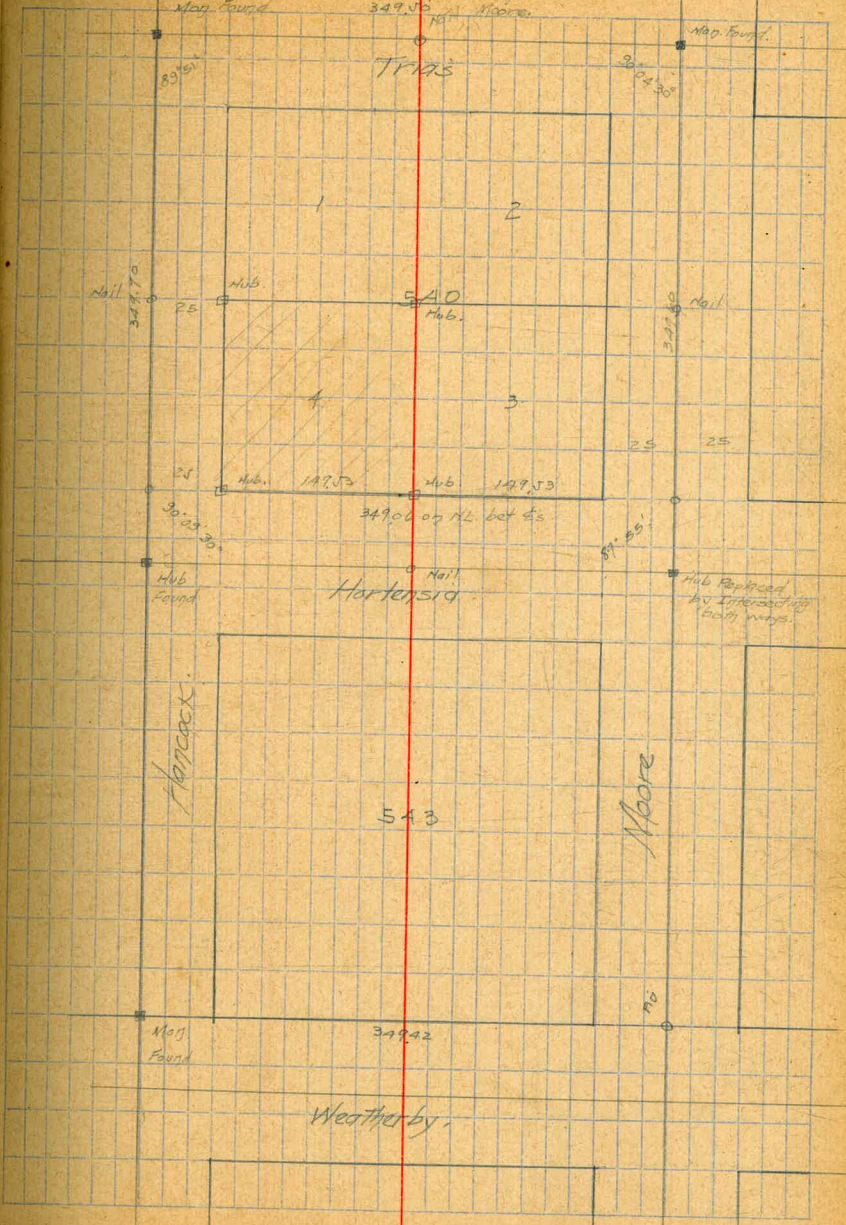




347.76
 349.06
 2.2877 247.76
 324.7 / 44.000 137.0
 2247 147.5
 115.30 10.540
 97.41 12.140
 178.90 64.25
 16.235 13.55
 165.51 2129.79
 349.16
 349.27
 174.635

Survey Lot #4 B1 540. Oldtown.

West
Moore
other
Moore.



57' line

30th St.

379.15

379.40

57' line

10' E 10'

57'

57'

Redwood St.

57' line

Dale St.

10'

57' line

57' line

10'

± 10' (m)

10'

57' line

29th St.

10'

57' line

10'

57' line

Granada Ave.

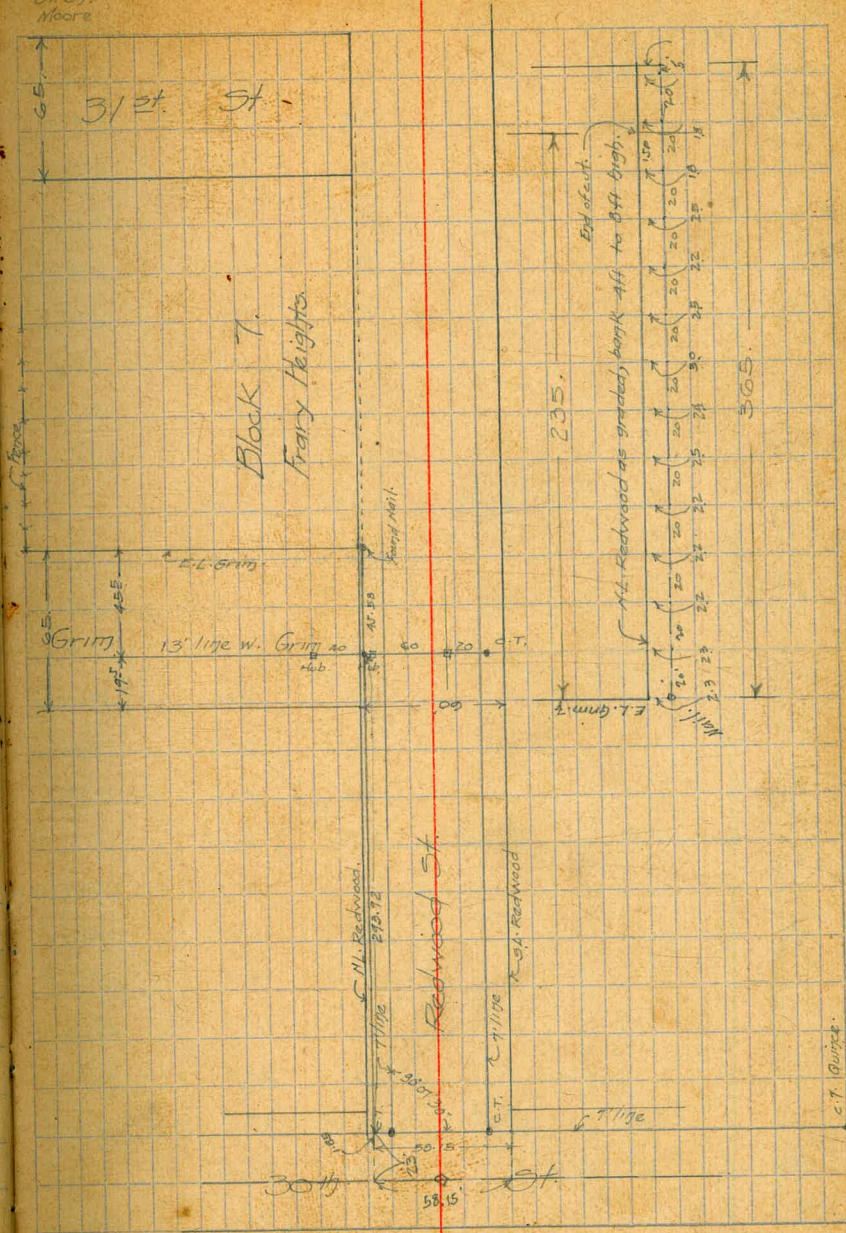
10'

57' line

West
Marine 2/6/16.
Open.
Moore

Sketch showing conditions of
REDWOOD STREET.

42



CUTS FOR 16" WATER MAIN

ALLISON ST

GRAND AVE No.

Station	100	17.00	7.00	Grade
0+00 = 1/2 of Grand				3.0
1+00				3.1
2				4.3
3				5.0
4				6.2
5				7.0
6				8.8
7				10.0
8				11.3
T.P.	12.81	28.19	1.62	15.28
9				12.5
10				13.8
11				15.0
12				17.1
13				19.2
14				21.3
T.P.	10.57	38.76	0.00	28.19
15				23.4
16				25.5
17				27.6
18				29.7
19				31.8
20	11.37	48.47	1.7	37.1 break 33.9
T.P. head of bolt pt. of 18460			2.00	36.76
x193			10.0	38.5

6/12/25

21
23
63
147
7533

+3.5					
+3.8					
+3.7					
+3.0					
+3.4					
+5.4					
+4.3					
+3.6					
+2.1					
+4.7					
+5.0					
+5.5					
+6.3					
+5.0					
+4.9					
+4.4					
+4.2					
+4.1					
+4.0					
+3.8					
+3.2					
+3.1					

71+73			8.1	404	39.2	+3.2
72+73			6.3	42.0	39.0	+3.2
73+73			4.1	44.4	40.8	+3.6
74+73			2.1	46.4	42.6 ✓	+3.8
T.P	11.92	59.05	1.34	47.13		
75+73			10.6	48.5	44.6 ✓	+3.9
76+73			8.4	50.7	46.6	+4.1
77+73			6.7	52.4	48.6	+3.8
28+73			5.1	54.0	50.6	+3.4
29+73			3.2	55.9	52.6	+3.3
30+73			1.4	57.7	54.6 ✓	+3.1
T.P	9.85	68.13	0.77	58.28		
31+73			8.6	59.5	56.4	+3.1
32+73			7.1	61.0	58.2	+2.8
33+73			5.0	63.1	60.0 ✓	+3.1
34+73	10.70	77.64	1.19	66.94	62.0	+4.9
35+73			9.3	68.3	64.0 ✓	+4.3
36+73			7.8	69.8	64.8 ✓	+5.0
37+73			6.4	71.2	65.6	+5.6
38+ ¹⁰³ 73	Δ 90° L		4.5	73.1	66.4 ✓	+6.7
39+73	Δ 78° R		7.7	69.9	66.9 ✓	+3.0
40+73			6.7	70.9	67.9	+3.0
41+73			6.0	71.6	68.9	+2.7
42+73			5.0	72.6	69.2 ✓	+3.4
43+73			4.1	73.5	69.6 ✓	+3.9
44+73	802	8236	3.30	74.34	71.0 ✓	+3.3
45+73			7.2	75.2	71.4 ✓	+3.8

18
508 ∫ 10.00
10.16
44

46+73			6.3	76.1	71.8	+4.3
47+73			5.7	76.7	72.8	+3.9
48+73			4.7	77.7	73.8	+3.9
49+73			3.6	78.8	74.8	+4.0
50+73			2.6	79.8	75.8	+4.0
51+73	7.50	88.11	1.75	80.61	76.8	+3.8
52+73			6.6	81.5	77.8	+3.7
53+73			6.0	82.1	78.8	+3.3
54+73			5.2	82.9	79.8	+3.1

8/10/22 Gregory X3 section, 2x 7' 1/2" 15' wide
 Macro at 4th + 5th
 Ellis from Robin to Pennsll
 Shaw

B.M.	4.90	292.79	287.89	NW 5th + Robin
		5.L. Robinson	(292.8)	
E		4.57	288.24	on paving
C		4.70	288.09	✓ ✓
W		4.33	288.46	✓ -
		50' S		
W		4.3	288.5	
C		4.1	288.7	
E		3.8	289.0	
		100' S		
E		4.2	288.6	
C		3.9	288.9	
W		3.9	288.9	
		157' S		
-3	= edge of cement	4.07	288.77	
W		4.3	288.5	
C		4.2	288.6	
E		4.2	288.6	
		194' S		
E	= cement apron	4.3	288.5	
C		4.4	288.4	
W		4.5	288.3	
		208' S		
N		4.5	288.3	
C		4.5	288.2	

(292.8) 46

E = garage floor (dirt)	4.7	288.1
	250' S	
E	4.8	288.0
C	4.8	288.0
W	4.9	287.9
	312' S	
W = garage floor dirt	5.3	287.5
C	5.3	287.5
E	5.4	287.4
T.P.	3.78	291.40
	5.17	287.62
	338' S	(291.4)
-5 = garage floor cement	3.83	287.57
E	4.1	287.0
C	4.2	287.2
W	3.9	287.5
	355' S	
-8 = garage floor dirt	4.2	287.2
W	4.4	287.0
C	4.5	286.9
E = garage floor (wood)	4.0	287.36
	375' S	
E = garage floor (cement)	4.4	287.0
C	4.6	286.8
W	4.5	286.9
+8 = garage (dirt)	4.4	287.0

291.0

291.4

47

400' S

W			5.0	286.4
C			5.0	286.4
E			5.0	286.4

475' S

E = public garage floor (cement)			5.6	285.8
C			5.6	285.8
W			5.4	286.0

500' S

W			5.6	285.8
C			5.8	285.6
E = s. line of public garage			5.7	285.7
T.P.	3.64	288.55	6.49	284.91

550' S

288.5

E			3.4	285.1
C			3.5	285.0
W			3.5	285.0

600' S = NL Penn

W			4.09	284.26	on cement ab
C			4.4	284.1	
E			4.43	284.17	on cement ab
chk B.M.			6.08	282.47	BP NW 5th + Penn

11/20/22
Gregory
Hearce
Ella
ShawCROSS SECTION OF
ALLEY BETWEEN 4th - 5th (15' wide)
Walnut to Brookes

	5.83	289.51	283.98
		N. C6 Line Walnut	
W		4.17	285.64 on curb
E		4.36	285.45 ✓
		N.L. Walnut	
E		4.00	285.81 on curb
C	use this for yardage	4.0	285.81
(C)		(4.20)	285.61 on paving
W		3.85	285.96 on curb
		6' N	
W		1.1	288.7
+5		3.0	286.8
C		2.9	286.9
+3		3.1	286.7
E		1.5	288.3
		20' N	
E		1.5	288.3
+4		2.1	287.7
C		1.9	287.9
+3		1.7	288.1
W		0.8	289.0
		50' N	
W		0.8	289.0
C		1.2	288.6
E		1.3	288.5

T.P.	4.75	293.49	1.17	288.64
		66' N		
E = S. end of wooden approach		5.25		288.24 ✓
		70' N		
W = edge of pavement in yard S end		4.76		288.74 ✓
		78' N		
E = S. side garage + N end of wooden approach		4.55		288.94 ✓
		86' N		
W = edge of pavement in yard N end		4.32		289.17 ✓
		100' N		
E			5.1	288.4
C			4.6	288.9
W			4.5	289.0
		118' N		
1' E of EL = wooden floor.		5.40		288.09 ✓
		147' N		
E = dirt drive		5.40		288.09
C			4.9	288.6
W			4.20	289.29
		160' N		
3' E of EL = cement floor.		5.44		288.05
		194' N		
W = front of garage dirt floor		4.40		289.09 ✓
		200' N		
W			4.2	289.1

This floor
can be excavated

293.49

C		5.0	288.49
E		5.0	288.49
	425' N		
E		5.1	288.4
+4		5.9	287.6
C		5.6	287.9
+3		5.6	287.9
W		4.6	288.9
T.P.	1.90	288.66	6.73
	256' N		
-4 = cement floor		1.20	287.46 ✓
W		1.30	287.4
C		1.7	287.0
E		2.0	286.7
	300' N		
E		3.2	285.3
C		3.6	285.1
+3		3.4	285.3
W		2.4	286.3
	308' N		
3' W. of WL = cement floor		2.25	286.41 ✓
	350' N		
W		3.7	285.0
+5		4.4	284.3
C		4.3	284.4
E		4.5	284.2

288.66

49

	369' N		
2.5' W. of WL = cement		3.09	285.57
	400' N		
E		4.8	283.9
C		4.8	283.9
+5		4.8	283.9
W		3.8	284.9
	450' N		
W		5.0	283.7
C		5.4	283.3
E		5.4	283.3
	492' N		
W = edge apron		5.02	283.64 ✓
	511' N		
T.P.	4.64	287.99	5.31
			283.35
-5 = cement floor		4.87	283.12 ✓
E		4.9	283.1
C		4.7	283.3
W = edge apron		4.40	283.59 ✓
	550' N		
W		5.0	283.00
C		4.9	283.1
E		4.9	283.1
	590' N		
E		4.6	283.4
+4		5.2	284.8

The entrance is
from the N. &
grade can be 2' lower

Garage to W

Garage
9' West

28799

50

C 5.2 282.8

W 5.2 282.8

602' N = 51. Brookes

W 5.6 282.4

+4 6.2 281.8

C 6.0 282.0

+3 6.0 282.0

E 5.0 283.0

No alley returns on either side

E 400 285.46 6.53 281.46 on curb

W 3.75 (6.28) 281.71 - ✓

chk B.M. 5.51 279.25 NW 5th Brookes = 279.71

333.92

450' N

E	37	330.2
C	43	29.6
W	43	29.6

300' N

W	34	30.5
C	37	30.2
E	30	30.9

354' N

E	32	30.7
C	36	30.3
W	37	30.2

361' N = 51. Myrtle

W	return is 1.35' in alley	4.22	329.70 on curb
C		4.2	329.7
E	return is 0.6 in alley	3.93	329.99 on curb

12/5/20 Gregory
 18/1/23
 show

CROSS SECTION OF
 PORTION OF MYRTLE INDIANA INTERSECTION

9.65 303.70 294.05 BP NW
 Indiana

10' N of N.L. Myrtle		
W.L. Indiana	9.3	294.4 ✓
20' E = Web Line	9.7	294.0 ✓
N.L. Myrtle		
W. cb. line	9.5	294.2 ✓
10' W	8.0	295.7 ✓
14' W	7.9	295.8 ✓
W.L. Indiana	5.7	299.0 ✓
5' S of N.L. Myrtle		
W.L. Indiana	5.0	298.7 ✓
7' E	7.6	296.2 ✓
14' E = Web Indiana	9.1	294.6 ✓
10' S		
W. cb	9.3	294.4 ✓
4' W	8.1	295.6 ✓
13' -	7.0	296.7 ✓
30' W = W.L. Indiana	5.4	298.3 ✓
20' S		
W.L. Indiana	4.8	298.9 ✓
7' E	5.7	298.0 ✓
14' -	6.0	297.7 ✓
20' - = W. cb	9.3	294.4 ✓
3' - of - -	10.3	293.4 ✓
30' S = Center Myrtle		
3' E of W. cb	10.3	293.4 ✓

W. cb	9.2	294.5 ✓
8' W	4.2	299.5 ✓
13' -	4.4	299.3 ✓
20' - = W.L. Indiana	3.5	300.2 ✓
40' S		
W.L. Indiana	3.0	300.7 ✓
7' E	3.1	300.6 ✓
10' -	3.2	300.5 ✓
20' - = W. cb	9.2	294.5 ✓
3' E of - -	10.2	292.5 ✓
50' S		
3' E of W. cb	10.4	292.3 ✓
W. cb	9.7	294.0 ✓
10' W of W. cb	3.1	300.6 ✓
10' - - - -	2.6	301.1 ✓
60' S = 9L. Indiana		
W.L. Indiana	2.5	301.2 ✓
7' E	3.0	300.7 ✓
20' - = W. cb	9.4	294.3 ✓
3' - of - -	10.6	292.1 ✓

Gradas Alley
Blk 66 Park Villas

5L Mx/Hle

329.9

329.99

80'N break

328.6

328.8

40'N

329.91

329.89

NL Vaas

327.02

327.39

1' out from Wedge

1.5 out from Eln

5' out

5' out

54

328.80 BP SE 25th Ups

~~328.80~~

328.09

328.8

+ .71

+ .0

+ 1.60

+ 2.10 from nail.

329.81

328.6

+ .99

+ .20

+ .47

- 0.10

0.52

Soundings Pacific Ave Outfall
 Angles taken from North Reference Pt. See book

#1	23°04'	5
#2	30°41'	8.5
#3	35°58'	13
#4	40°25'	15
#5	45°00'	17
#6	48°40'	20
#7	50°51'	20
#8	53°27'	21
#9	55°27'	24
#10	57°45'	26
#11	60°25'	30
#12	61°51'	30.3
#13	63°04'	32
#14	64°26'	32
#15	66°17'	35
#16	67°22'	35.2
#17	68°58'	39
#18	70°06'	39
#19	72°08'	41.5
#20	73°04'	42
#21	73°26'	45
#22	74°26'	47
#23	75°00'	49

D. Allen - 10-8-26

56

1056 P

PLUMOSA PARK SEWERS

Additional Lines installed after public improvement

0+00 = M.H. #25 of Improvement moved to a point

End = Tank in Wing St. Line 2 ft. N. of N. Line

	2.74	101.48		98.74	
0+00	P 2.44		12.03	89.45	83.80
		91.89			
0+50			1.95	89.94	83.47
1			2.40	89.49	83.13
+20				89.32	83.00 ⊕
+30			3.0	88.9	
+50			6.49	85.40	78.79
+70			12.3	79.6	
TP	0.31	79.38	12.82	79.07	
2			4.45	74.93	71.77
+28			6.5	72.9	
+50			8.35	71.03	64.75
+71			12.6	66.8	
TP	0.69		12.53	66.85	
		67.54			
3			7.39	60.15	57.74
+30			10.9	56.6	
TP	0.06	55.08	12.52	55.02	
+50			1.25	53.83	50.72
4			9.93	45.15	43.70
+05			10.11	44.97	43.00 ⊕

Notes copied from D.A. Loebenstein's Notes
by G.R. Hayler. 11-9-26

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contract.

2 ft. N. of N. L. of Plumosa Park.

of Plumosa Park R. of W. reserved.

C 5.65

Manhole #25 of Improvement.

C 6.47

C 6.36

C 6.32

Manhole

C 6.61

C 3.16

C 6.28

C 2.41

C 3.11

C 1.45

C 1.97

Tank

Plumosa Park Sewers

Sewer in North End Blk "C" Plumosa Park

	2.06	129.91		127.85	
TP	1.53		12.31	117.60	
		119.13			
TP	3.43	109.66	12.90	106.23	
0+00 D.E.			7.40	102.26	97.00 ⊗
0+00			7.7	102.0	
0+50			6.87	102.79	96.46
+50			7.5	102.2	
1			5.16	104.5	95.92
1			5.9	103.8	
+50			4.79	104.87	95.38
+50			5.1	104.6	
+85			4.33	105.33	95.00 ⊗
+85 M.H.			4.5	105.2	
+85			4.45	105.21	95.00 ⊗
2			5.63	104.03	94.51
2			5.7	104.0	
+50			8.36	101.30	92.86
+50			8.5	101.2	
3			10.92	98.7	
3	2.07	100.81	10.92	98.74	91.21
+37			5.61	95.20	90.00

Copied from D.A. Hoeben's Notes by G.R.H. 11-9-26

Elevations in tenths are ground at ϕ Ditch

58

ALLEY

DEAD END

C 5.26

C 6.33

C 8.58

C 9.49

C 10.33

C 10.21

C 9.52

C 8.44

C 7.53

-1.081

-3.289

ALONG N.E. LOT 17

MANHOLE TOP 104.0

Official Flow = MAN HOLE # 24 OF IMPVT.

PLUMOSA PARK SEWER ALONG N.L. BLK'S "F" AND "D"

TO ALLEY IN BLK "D" THEN DOWN ALLEY TO EXISTING SEWER

Copied from D.A. Loebenstein's Notes by G.R.H. 11-9-26

59

B.M.	103			157.40	
		158.43			
0			6.28	152.15	147.00 (R)
+50			8.30	150.13	144.25
1			11.34	147.09	141.50
P	0.38		11.34	147.09	
		147.47			
+10			1.0	146.5	
+25			5.8	141.7	
+35			6.5	141.0	
+40			4.5	143.0	
+50			4.75	142.72	138.75
+62	CUT		5.2	142.3	
2			7.12	140.35	136.00 (R)
+20			8.6	138.9	
+50			9.65	137.82	135.17
+52			9.8	137.7	
+56			3.8	143.7	
3			4.98	142.59	134.33
+50			6.85	140.62	133.50
4			8.78	138.69	132.67
+50			10.45	137.02	131.83
+70	M.H.			135.92	131.50 (R)
+85				135.1	
P 5	2.94		12.45	135.02	131.00 (R)
		137.96			130.56

C 5.15 DEAD END
 C 6.88
 C 5.59

Class C
 1+09 3 lengths CI Pipe
 1+45 1/2 Fill
 Chas Moore

C 3.97
 C 4.35 M.H.
 C 2.65
 C 8.26
 C 7.12
 C 6.02
 C 5.19
 C 4.42
 C 4.46 M.H.

PLUMOSA PARK ADDITIONAL SEWERS

Continued from page 59

137.96

5+50		3.83	134.13	129.00
6		6.09	131.87	127.44
+50		8.85	129.11	125.88
7		11.27	126.69	124.32
P	3.20	12.64	125.32	

128.52

+50		3.81	124.71	122.77
8		4.98	123.54	121.21
+06.60 = M.H.				
+66.75 = D.E. of IMPVT.				121.00 ⊗

MH 6'x GUINEA		6.11	122.41	
---------------	--	------	--------	--

COT GUINEA		6.65	119.	
------------	--	------	------	--

BM	2.13	144.95		142.72
----	------	--------	--	--------

TRUE GUT	1+68		4.0	
----------	------	--	-----	--

"	2+26		6.9	
---	------	--	-----	--

	3 94			
--	------	--	--	--

	1 97			
--	------	--	--	--

(BLOCK D - ALLEY IN WESTERLY END)

STUB PLUMOSA PARK ADDITIONAL

4+50	9.15	146.17		137.02
= 1+70 stub				

4+70	M.H.		10.25	135.92	131.50 ⊗
------	------	--	-------	--------	----------

1+50			8.85	137.32	132.97
------	--	--	------	--------	--------

1			2.81	143.36	136.65
---	--	--	------	--------	--------

0+50	P 7.33		0.71	145.46	140.33
------	--------	--	------	--------	--------

152.79

0+00			4.53	148.26	144.00 ⊗
------	--	--	------	--------	----------

G 5.13				
C 4.43				
C 3.23				
C 2.37				

C 1.94				
C 2.33				

C 1.41				
--------	--	--	--	--

C 8.85				750
65				

1+50				
------	--	--	--	--

SEWER

C 4.42	M.H.			
--------	------	--	--	--

C 4.35				
--------	--	--	--	--

Shown C 6.71				
--------------	--	--	--	--

C 5.13				
--------	--	--	--	--

C 4.26	DEAD END			
--------	----------	--	--	--

SEWERS CLIFF GARDEN TRACT

"A" LINE			GROUND	GRADE	
	5.87	^	352.85		346.98
0+00			4.75	348.10	343.50 C 4.60
+50			5.39	347.46	342.91 C 4.55
1+00		1.18644%	5.66	347.19	342.31 C 4.88
+50			6.32	346.53	341.72 C 4.81
2			6.50	346.35	341.13 C 5.22
+50			7.67	345.18	340.53 C 4.65
+95	M.H	v	8.93	343.92	340.00 C 3.92
2+95	M.H	^	8.88	343.97	339.64 C 4.33
3		-	8.90	343.95	339.58 C 4.37
+50		1.20%	9.11	343.74	338.98 C 4.76
4			9.83	343.02	338.38 C 4.64
+15	M.H	v	9.95	342.90	338.20 C 4.70
+15	M.H	^	9.95	342.90	336.40 C 6.50
+50		+ 0.55%	9.20	343.65	336.59 C 7.06
5			8.70	344.15	336.87 C 7.28
+35	M.H	v	8.28	344.57	337.06 C 7.51
= 5+25	"B" LINE				339.56

Construction Notes DALoebenstein
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BM S.W. COR. MARYLAND AND MADISON

5 E of EL Lots 5 and 8 Block D

± DELEWARE 344.50 F 0.58

344.50 F 0.53

LOW = ± DELEWARE + GOLDEN GATE F 1.1
344.00

± GOLDEN GATE + HARVEY ROAD

SEWERS CLIFF GARDEN TRACT

"B" LINE

			352.85			
0+00		λ	353.53 ^{0.08}	348.35	344.0	C4.35
+50		-	6.29	347.24	343.14	C4.10
1+00		1.724137/10	5.08	347.77	342.27	C5.50
+45	M.H.	√		345.57	341.50	C4.07
+45	M.H.	λ	7.28	345.57	340.66	C4.91
+50					340.63	
2			6.91	345.94	340.36	C5.58
+50			6.71	346.14	340.0825	C6.06
+65	M.H.	-	6.33	346.52	340.00	C6.52
3		0.556/10	6.75	346.10	339.81	C6.29
+50			6.92	345.93	339.53	C6.40
4			7.42	345.43	339.26	C6.17
+50			7.49	345.36	338.98	C6.38
5			8.05	344.80	338.71	C6.09
+25	M.H.	√	8.28 ⁷	344.57	338.57	C6.00

= 5+35 A 337.06

Construction Notes D.A. Loebenstein

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= S'E of EL Lots 2 & 5 BIK C

= $\frac{1}{2}$ Maryland Top M.H. = 345.85

Drop 0.84

= $\frac{1}{2}$ Maryland and Golden Gate

Top M.H. 346.61 F0.09

= $\frac{1}{2}$ Golden Gate and Harvey Road 344.82

F0.25

SEWERS CLIFF GARDEN TRACT

'C' LINE

	6.52	351.09		344.57	
0+15		10.30	340.79	338.93	C 1.86
+50		9.43	341.66	339.74	C 2.92
1		8.24	342.85	338.46	C 4.39
+15	Δ	7.97	343.12	338.38	C 4.74
+50		7.67	343.42	338.19	C 5.23
2		7.29	343.80	337.91	C 5.89
+50		6.93	344.16	337.64	C 6.52
3		6.70	344.39	337.36	C 7.03
+50		6.70	344.39	337.09	
+55				337.06	
= 5+35	"A"				
= 5+25	"B"				

Construction Notes D.A. Loebenstein

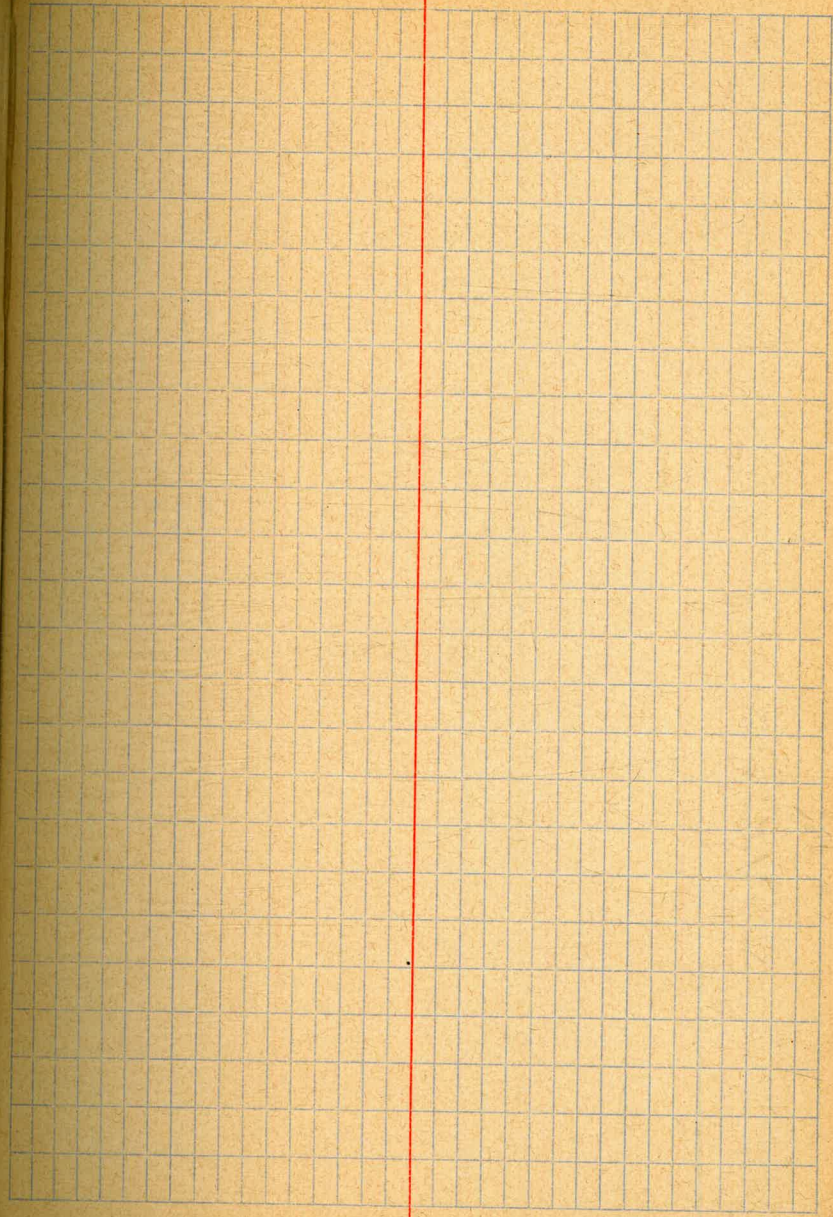
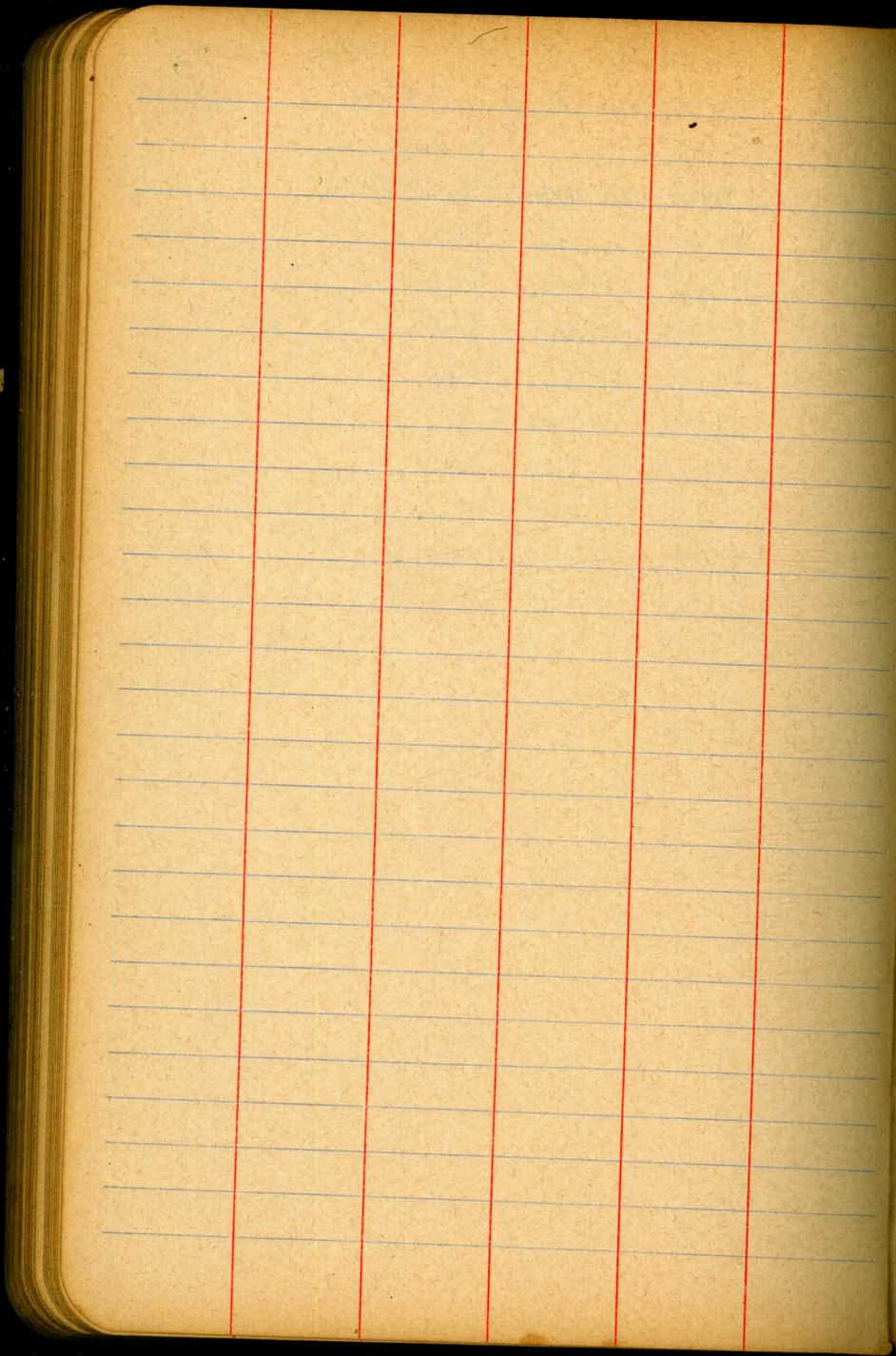
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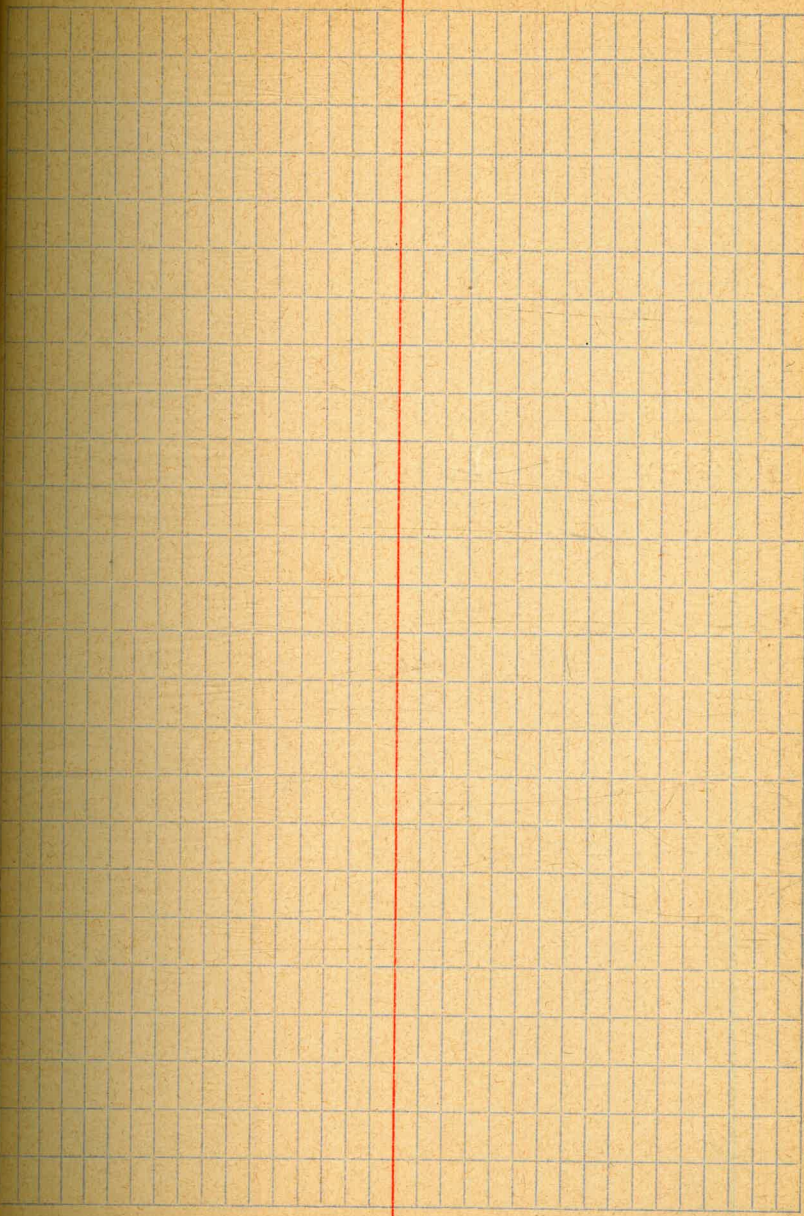
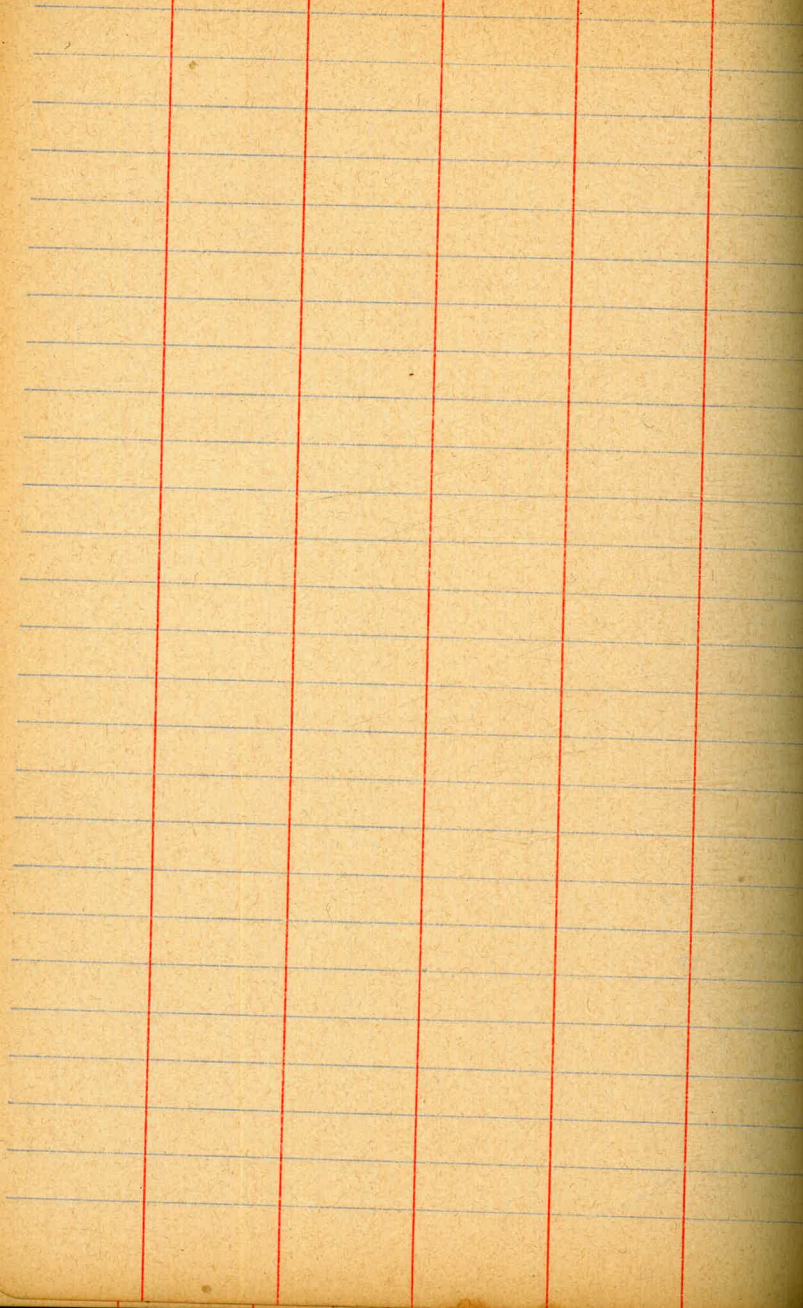
63

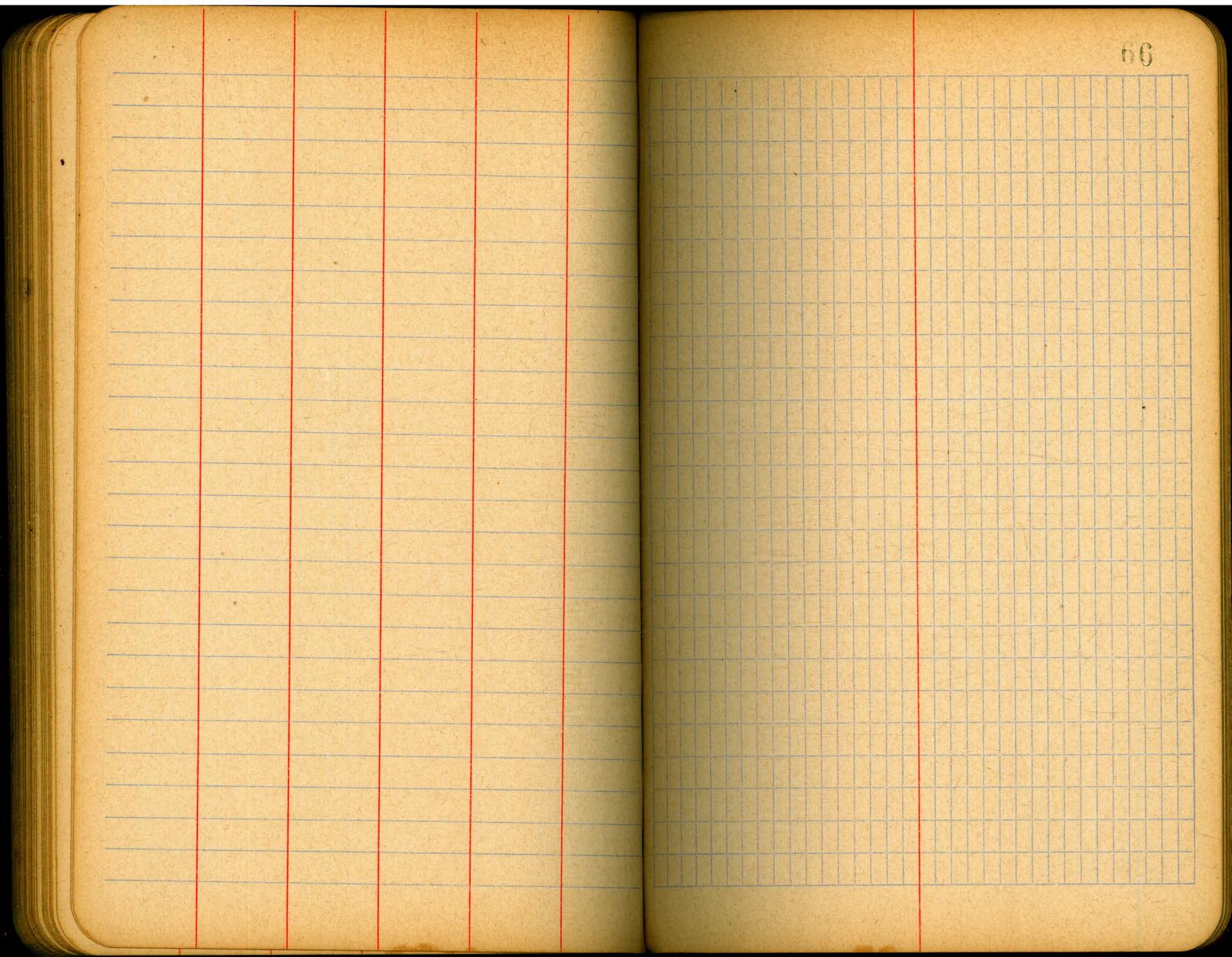
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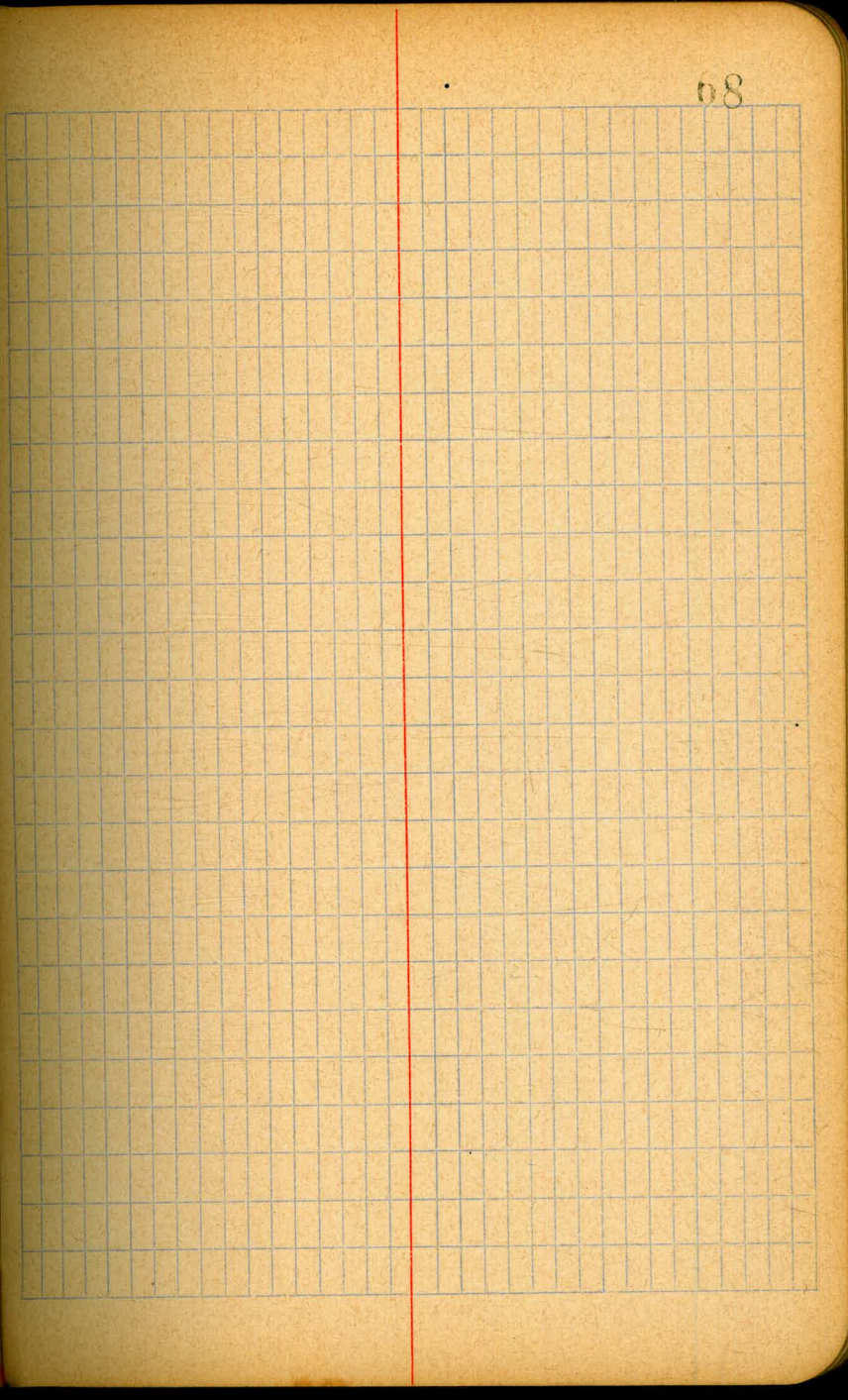
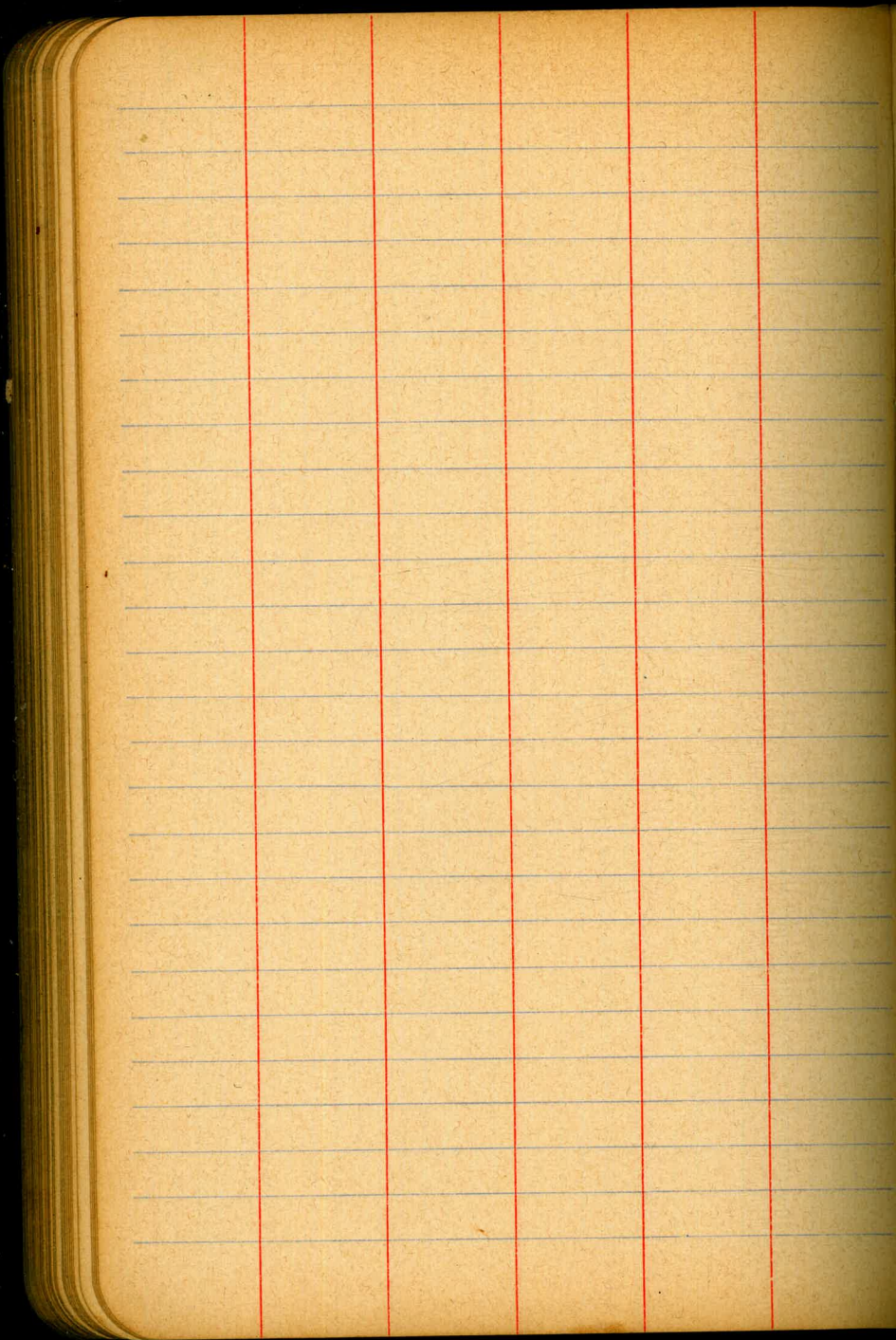
27^c

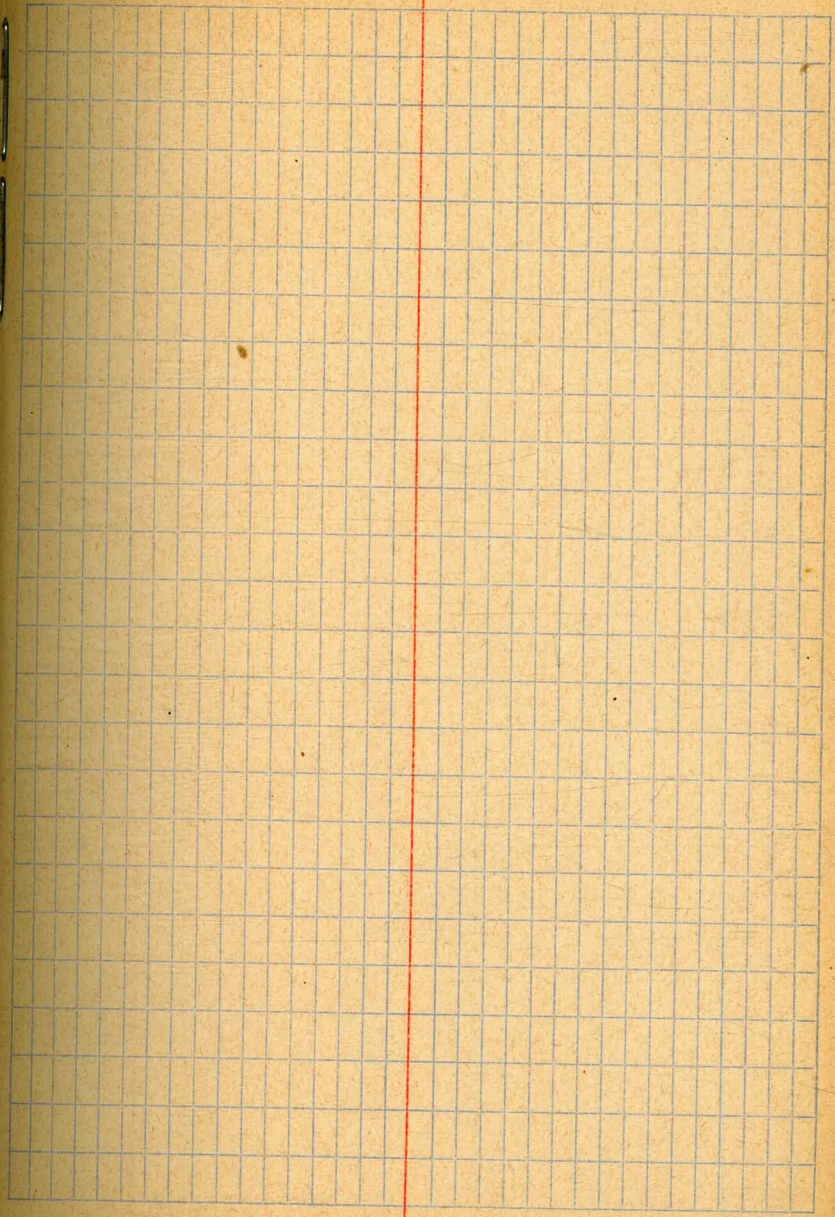
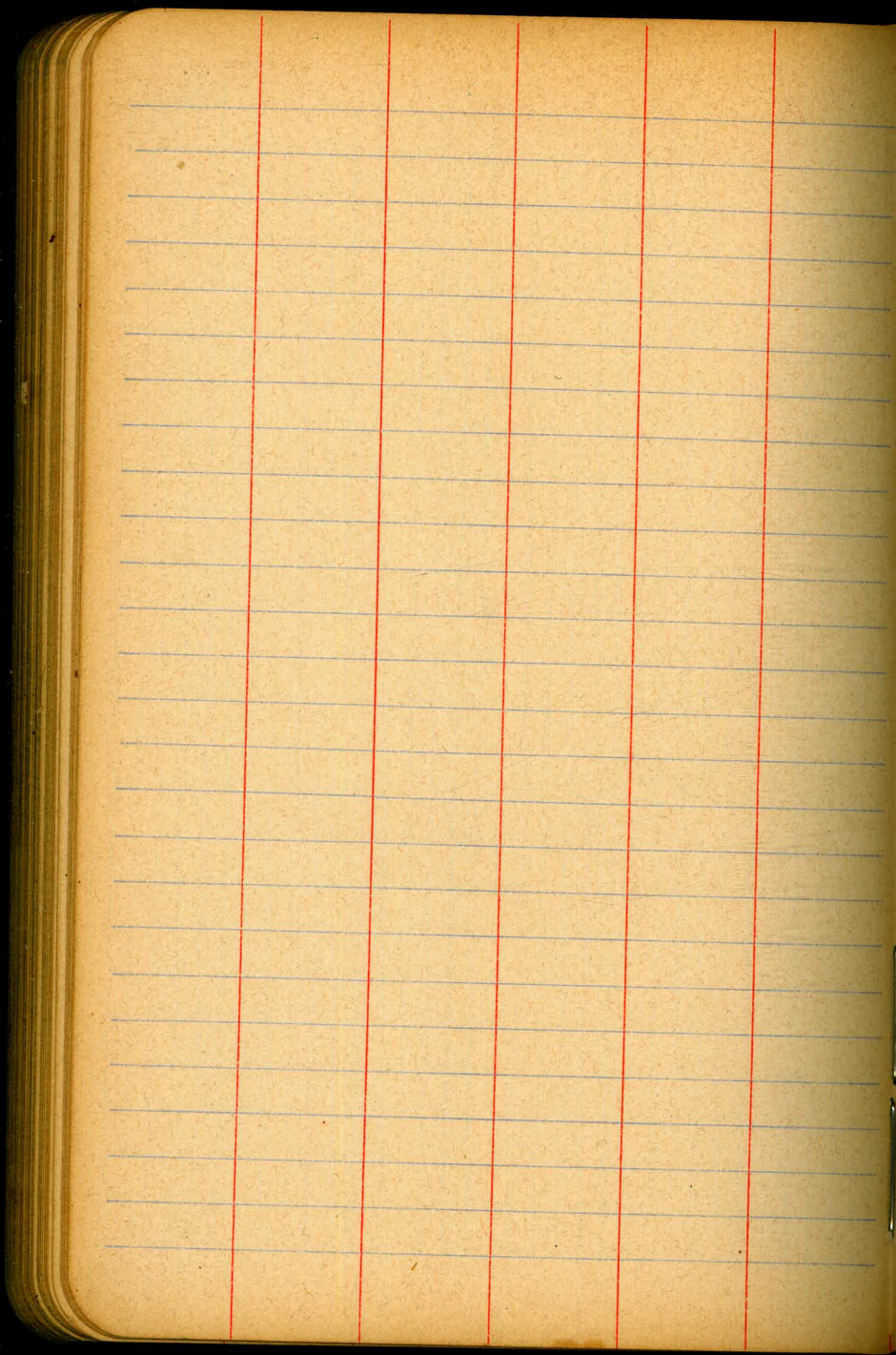
M. H.

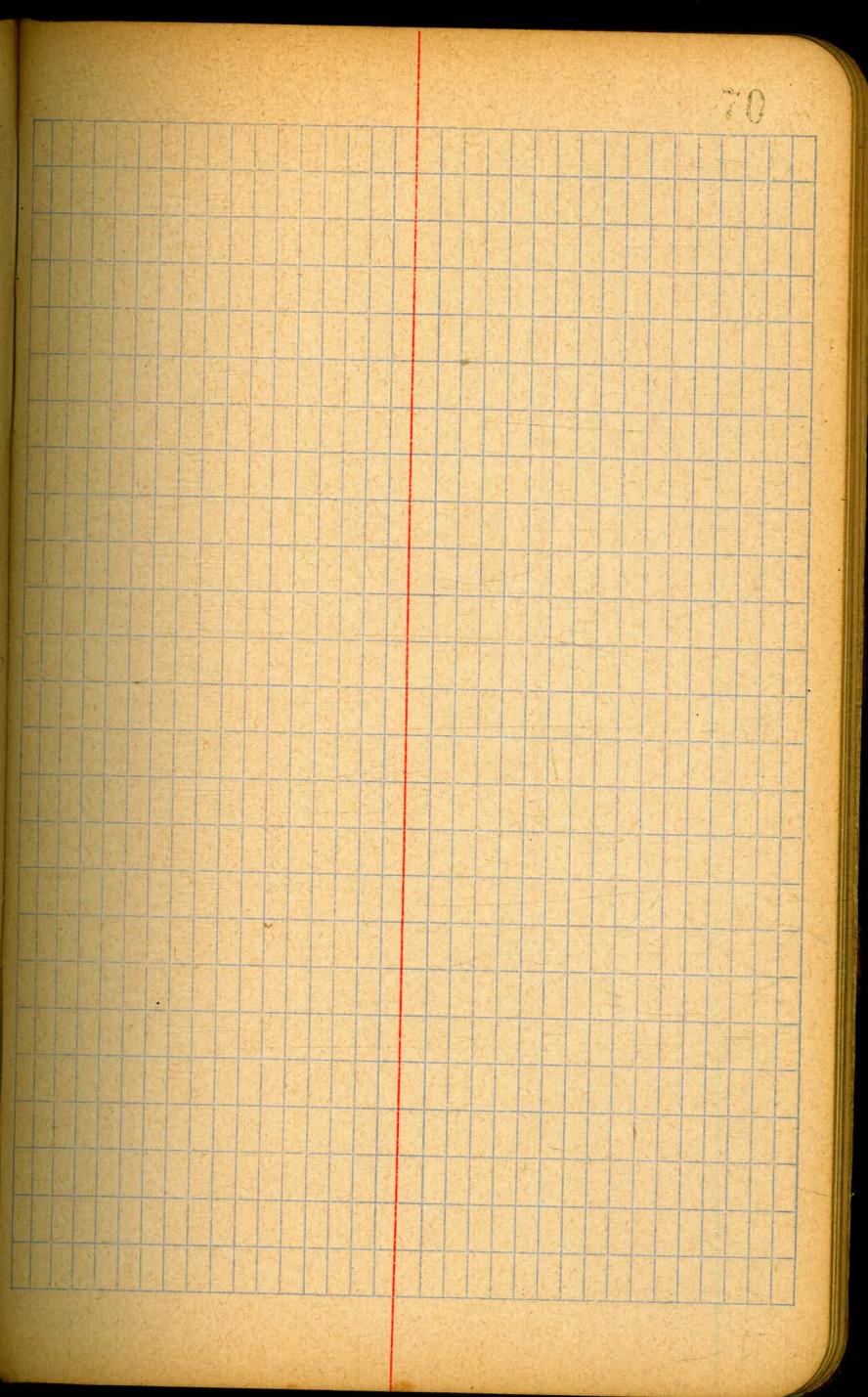
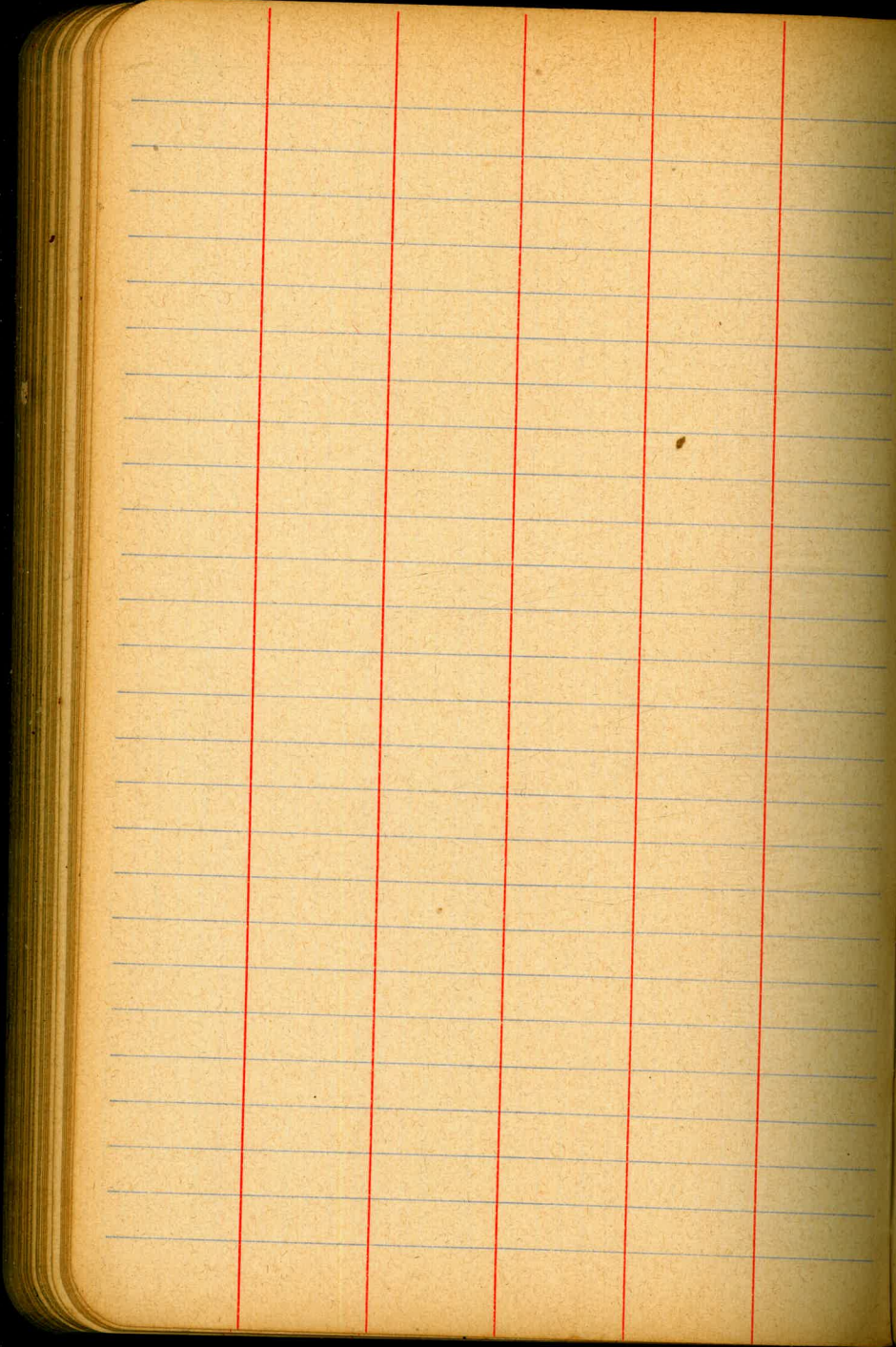


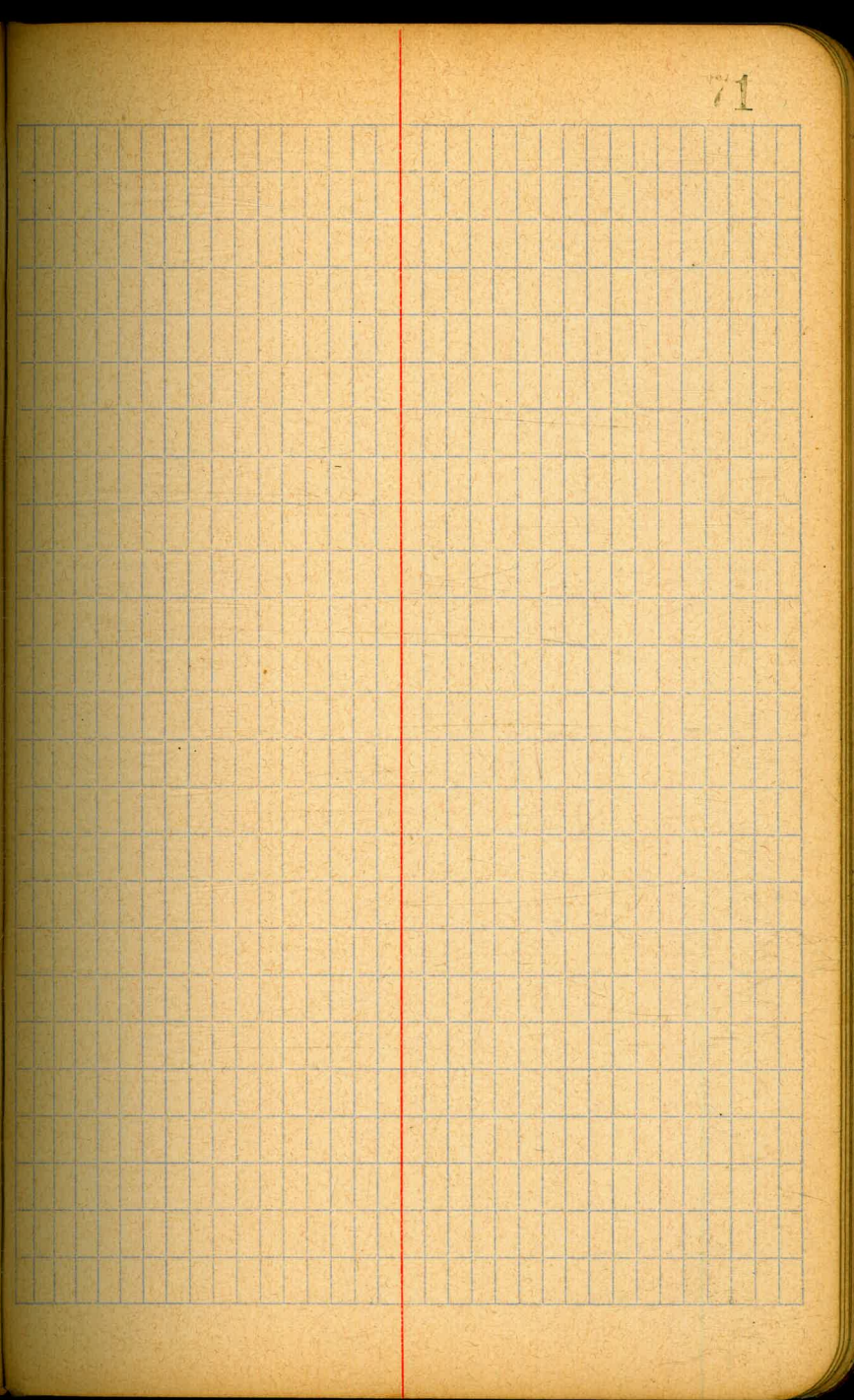
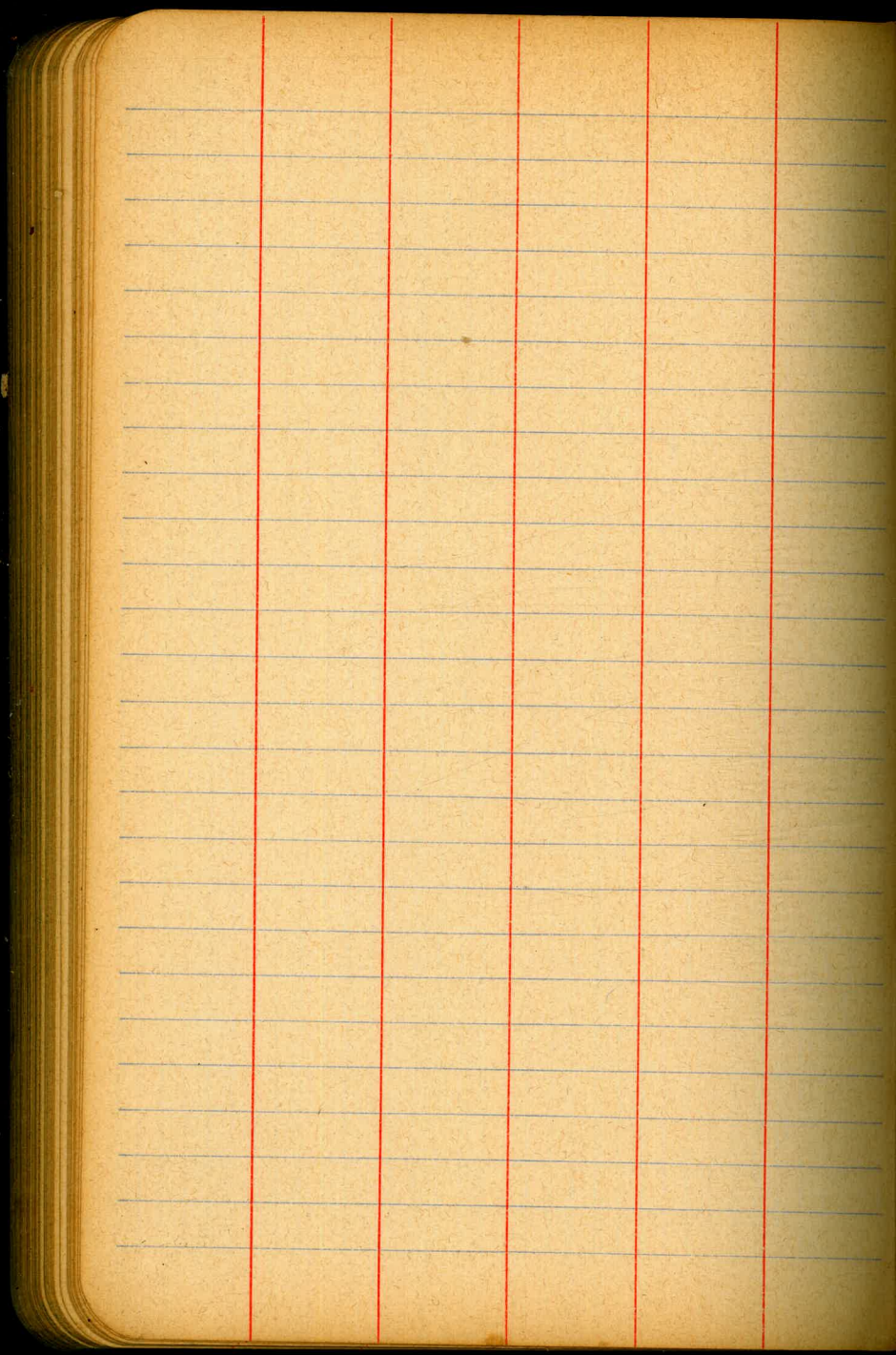


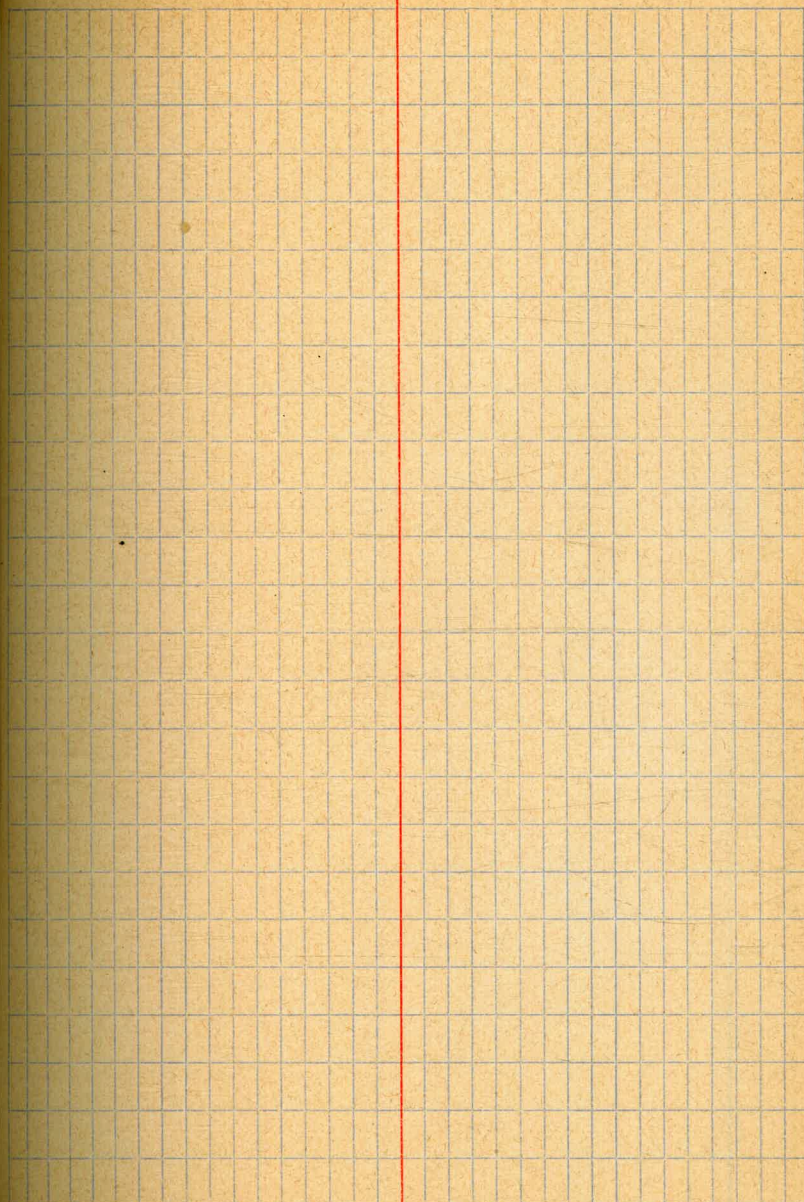
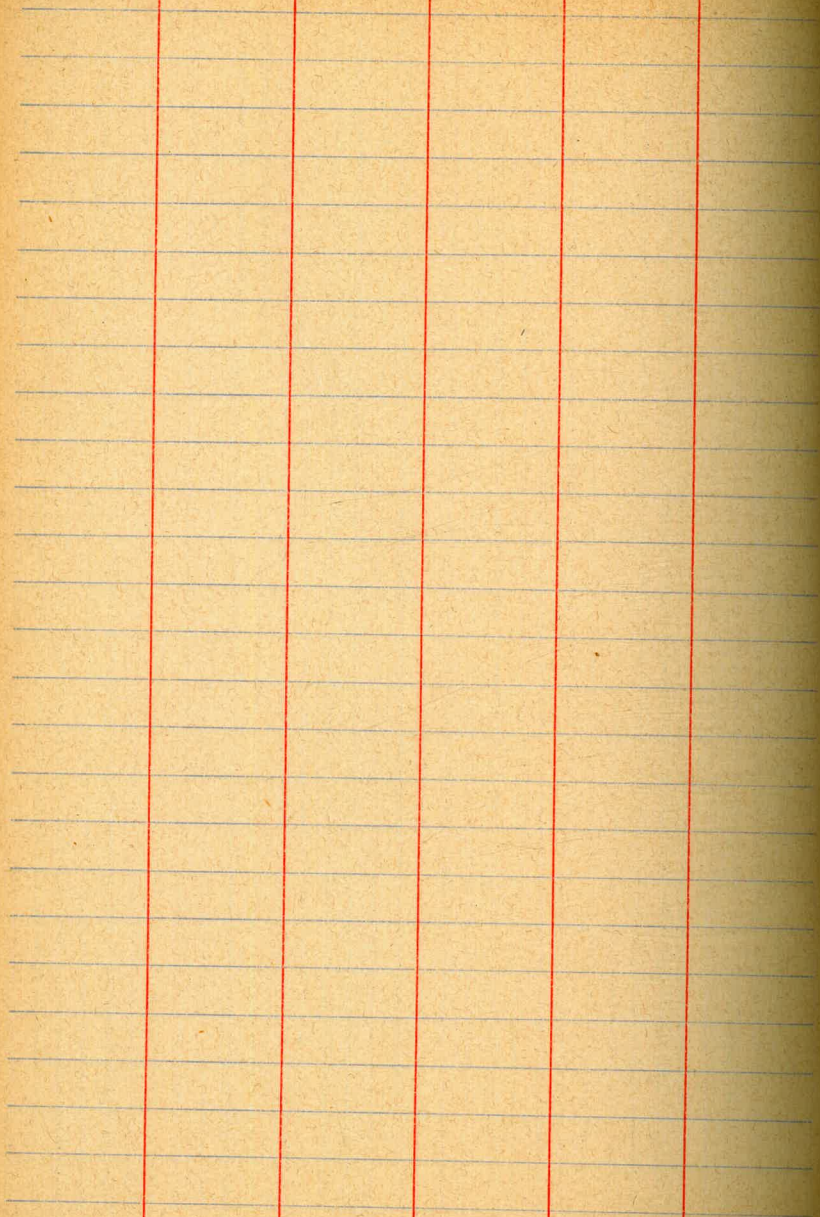






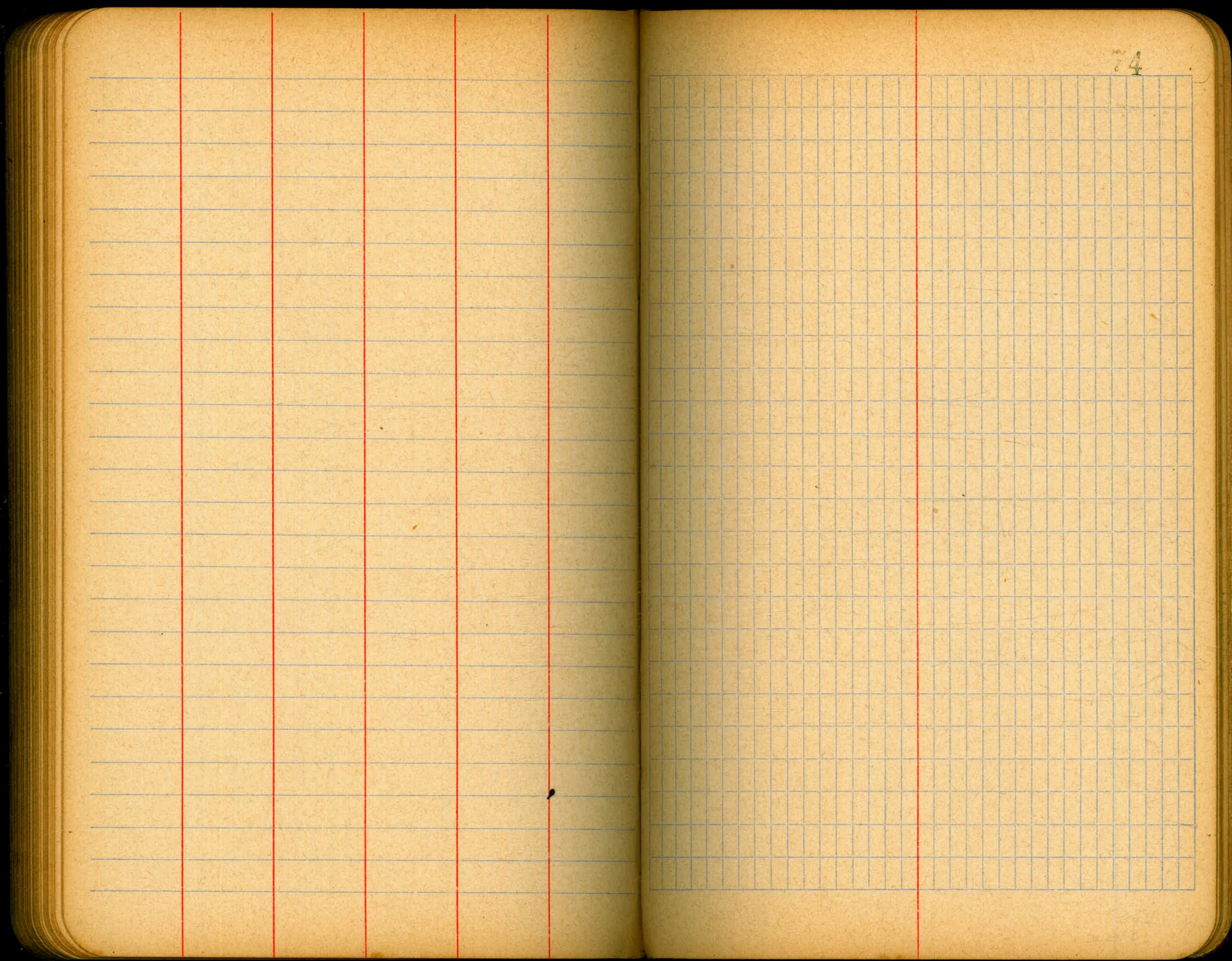




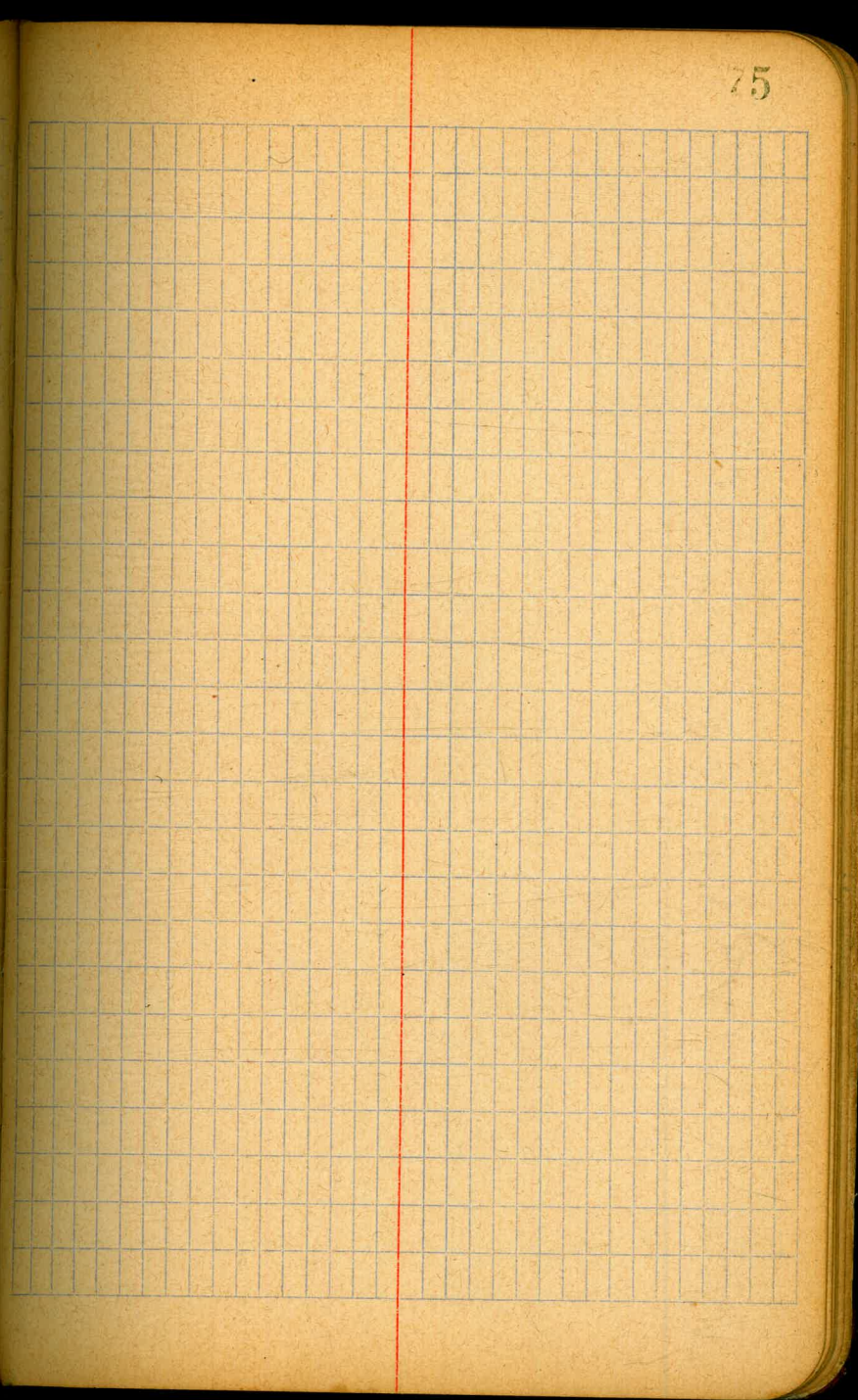
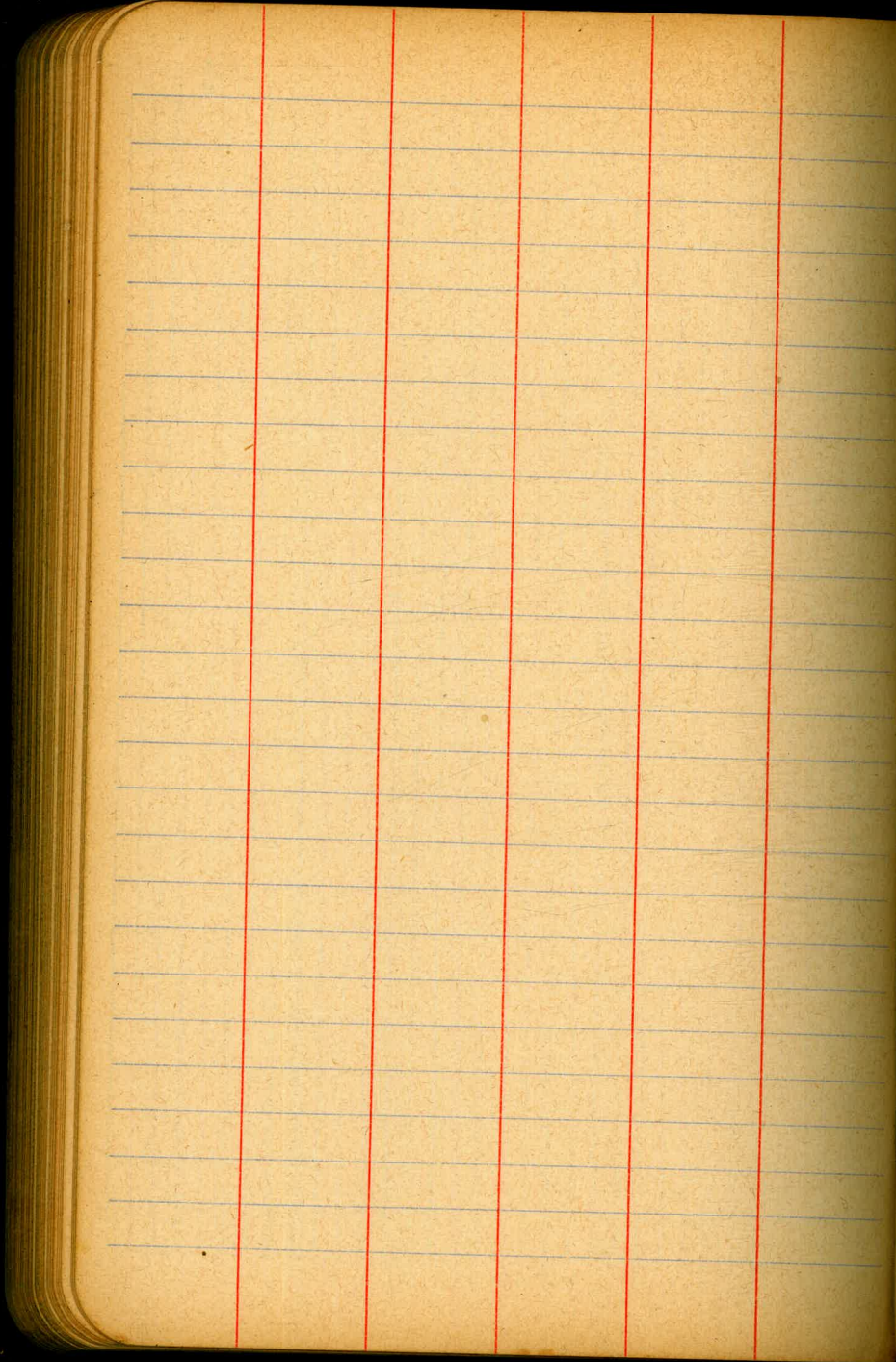


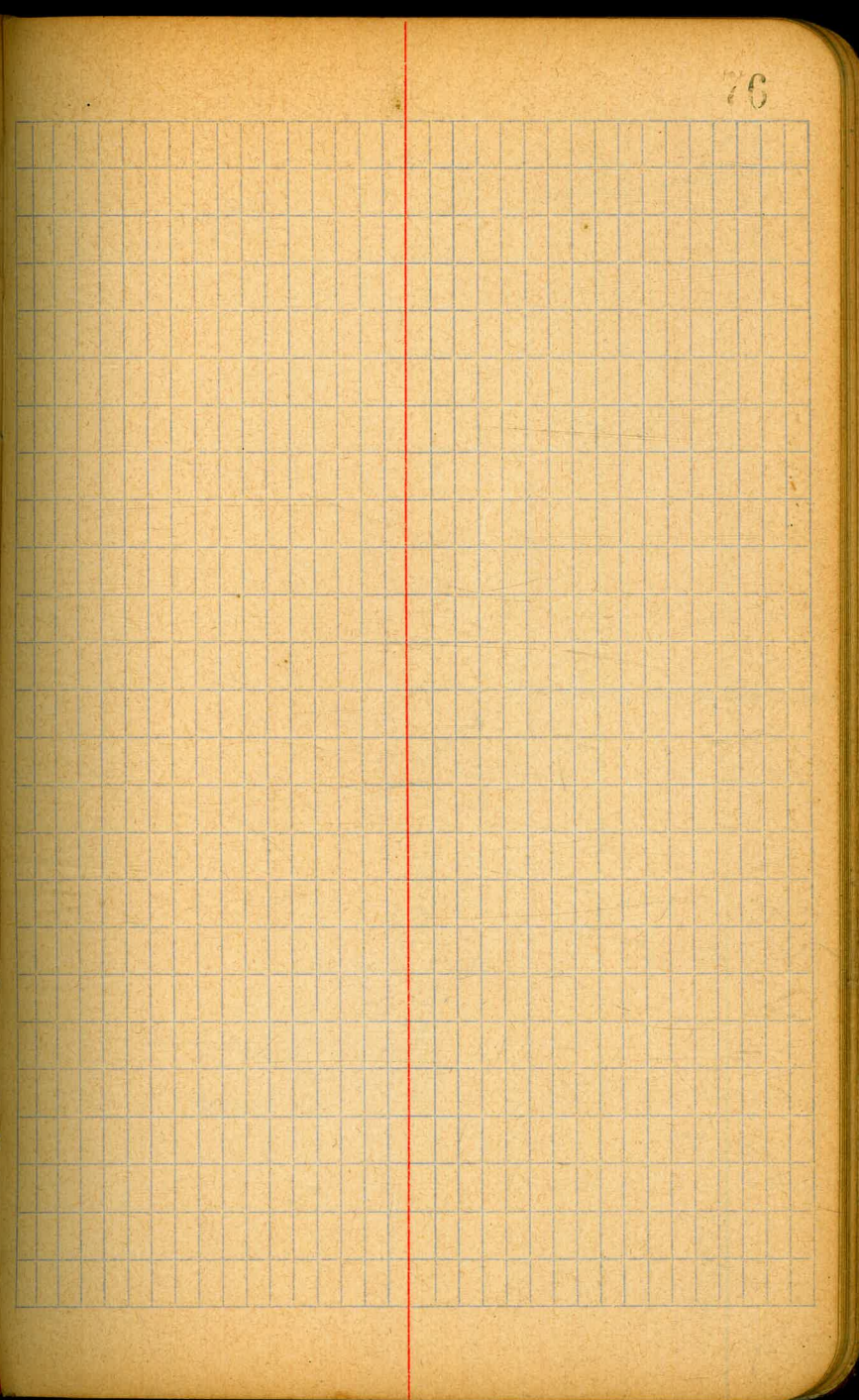
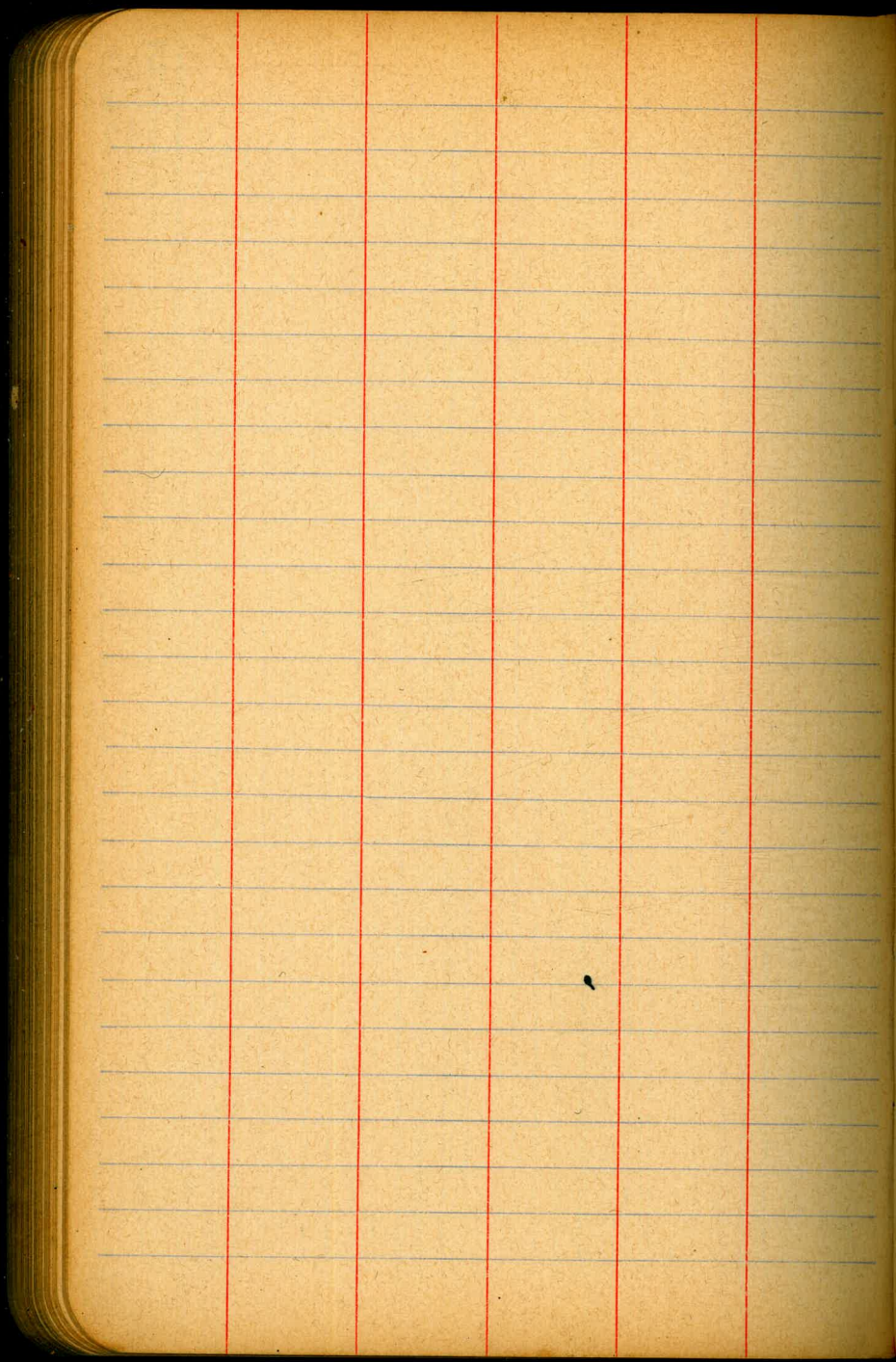
This page is a ledger-style page with four vertical red lines that divide the page into five columns. The columns are of varying widths, with the two inner columns being the widest. Horizontal blue lines are spaced evenly down the page, creating a grid for data entry. The page is otherwise blank.

This page is a grid-style page. It features a single vertical red line on the left side, creating a narrow margin. The rest of the page is filled with a grid of horizontal and vertical blue lines, forming a series of small squares. The page is otherwise blank.



74





Grape

St

17

St

Line 20' N. of Saline Dale St. E. 50'

20' 09"

Albatio
52240

50'

50'

Cedar

St

Checking Streets in Bird Rock

Hodgman ave. 18

April 26 & 27/15

142.64 H.I.

135.55 S.W. 7.14

136.5

6.14 S.E. end Birdrock

134.0

8.64 M.W. end

131.33

100' no. of Birdrock ave. on west side

11.31

131.00

125' no.

11.64

131.55

150' no.

131.80

10.84

175' no.

133.12

200' no.

9.00

142.74 S.P.

9.52

148.11 H.I.

4.36

143.75

370' no.

4.36

145.13

395' no.

146.90

1.21

445' no.

147.22

470' no.

2.98

146.89

420' no.

146.37

1.74

545' no.

0.83

147.31

0.80

495' no.

1.10

570' no.

145.39

2.72

570' no.

144.0

600' no.

note - East side not grade from Birdrock ave. north.

142.72 - 158.3 no. of Birdrock ave. on west side

5.39

143.54

457

East side

143.67

4.44

25' no. East front

144.36

" "

3.75

" "

144.24

3.82

25' no. " "

145.21

2.90

" "

" "

144.65

3.46

25' " " "

145.60

2.51

" "

" "

144.32

3.79

25' " " "

145.30

2.81

" "

" "

141.0

7.11

250' " " "

142.0

6.71

" "

" "

137.70

9.41

Public house lot west side

139.30

18.31

East side

142.00

Waverly ave.

~~118.10~~ 118.10 H.I. 117.00 N.E. + S.W.
N.W. 117.00 0.10

checked every 100' in between
109.0 110.0
9.10 8.10: chk o.k.

127.55 H.I.

119.00 N.E. cur 125.0 126.0
8.55 2.55 1.55
at Pueblo line. E = 123.0 W = 122.0
121.0 120.0
6.55 N.E. 7.55 N.W. forward

21° 57' 20"

121° 45'

21° 57' 30"

345

57

6 180

30

Dodge ave.

10603 H.I.

Belvidere
Cotton
Kerr
Apr. 26 + 27 / 10

93.0

93.5

14.03

12.53

checked every 100' O.K.

100.0

101.0

101.5

102.5

6.03

5.03

4.53

3.53

all four corners check O.K.

0.88

105.45 S.P.

6.10

111.55 H.I.

106.5

5.05

108.0

3.53

105.55

5.70

104.35

7.30

chk o.k.

88.72

4.96

93.68 H.I.

9.98

83.70 S.P.

4.12


87.82 H.I.

77.60

10.22

Dolphin West, of Chelsea in north
 28' west 73.50 H.I.
 6.2 7.2 6
 6.2 7.2
 67.370.66.3 00.

108' West, of Chelsea in north
 9.0 9.5
 64.5 in No. 64.0 in North

East end of curve. 
 14.0 14.5
 59.5 No. Side 59.0 No. Side
 60.68 H.I.

80' west of East end curve. in South
 13.7 14.7
 47.0 in No. 46.0 in South.

return S.W. cor Chelsea 0.5 high

280.12
 140.06
 130.06
 115.95
 12.25
 7.25
 73.00

270.12
 12
 256.12
 175
 131.00

250.12
 24.12
 125.00
 116.12

280.12
 140.06
 130.06

354.77
 55
 296.77
 30
 266.77
 133.39
 30
 133.39

143.77
 56.73

13.12
 12.25
 109.27

162.77

Bird Rock ave

74.90 H.I.
 64.00 ditk. OK break 500 west
 10.90 cor. of Chelsea in north
 68.00 ditk. OK break 50' west
 6.90 of cor Chelsea in north.
 return in S.E. cor. 4 high Chelsea

0.76
 74.14 S.P. to hub 10' to S.E. cor.
 Bird Rock ave + Chelsea.
 98.2
 83.96 H.I.

Center alley bet. Chelsea
 + Oil Boulevard
 No. 76.5 South 76.5
 West line Oil Blvd. No. 79.0 South
 checks 0.2 high for 78.0
 from Oil Blvd. to
 Dodge ave. not graded.

101.5
 return 2 high 4.53 100.0
 6.03

10.25
 3.53 10.545 106.03 H.I.

101.0
 5.03 117.0 118.00 0.18
 1.10 H.I. 0.10 117.98 S.P.
 3.54 9.60
 4.64 127.53 H.I.
 119.00
 8.53 S.E. cor

0.83
 83.13 S.P.
 12.66
 95.79 H.I.
 7.07 S.P. RR. H.I.
 88.72
 0.0
 95.79 S.P.
 10.24
 106.03 H.I.

5.17
 80.79 B.M.

5.93
 2.67
 5.60
 2.67
 11.27
 2.67
 13.94

124.9
 130.44 H.I.
 0.24
 130.10 S.P.
 12.54
 142.64 H.I.

Bellevue ave.

No. End.

7490 H.I.

61.5 63.0 curb & prop.
13.4 11.7 .4 high
Prop. 4 low.

return on so side dolphin 5 high S.W. cor

" " " " abalone 5 "

69.5 71.0 Birdrock ave
5.4 3.90 2 high curb N.W. cor

S.W. cor 72.0 N.E. + S.E. check
2.90 prop. 3 low. 73.0

71.0 1.0 high both curb N.W. cor abalone
3.90 1.6 2.6
& property

70.5 1.0 high both curb & prop. S.W. cor.
4.4

4.53 I.P. 66.0 curb 3 low on S.W. cor
70.37 3.13 7.5 return on dolphin 5 high
73.50 H.I.

6.0 68.5 66.5
67.5 66.0
12.5
61.0 63.0

KEITH'S RAILROAD CURVE TABLES.

Published by KEUFFEL & ESSER CO., New York.

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HOW TO USE KEITH'S TABLES.

EXAMPLE.

Wanted a Curve with an Ext. of about 12 ft. Angle
of Intersection or I. P. = 23° 20' to the R. at Station
542+72.

Ext. in Tab. IV opposite 23° 20' = 120.87
120.87 + 12 = 10.07. Say a 10° Curve.

Tan. in Tab. IV opp. 23° 20' = 1183.1
1183.1 + 10 = 118.31.

Tab. V. correction for A. 23° 20' for a 10° Cur. = 0.16
118.31 + 0.16 = 118.47 = corrected Tangent.

(If corrected Ext. is required find in same way)
Ang. 23° 20' = 23.33° + 10 = 2.3333 = L. C.

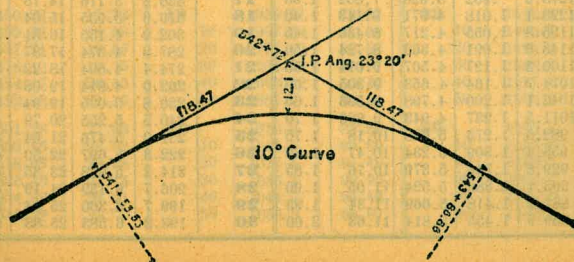
2° 19½' = def. for sta. 542	I. P. = sta. 542+72
4° 49½' = " " +50	Tan. = 1.18.47
7° 19½' = " " 543	B. C. = sta. 541+53.53
9° 49½' = " " +50	L. C. = 2.33.33
11° 40' = " " 543+	E. C. = sta. 543+86.86
	86.86

100 - 53.53 = 46.47 × 3' (def. for 1 ft. of 10° Cur.) = 139.41' =
2° 19½' = def. for sta. 542.

Def. for 50 ft. = 2° 30' for a 10° Curve.

Def. for 36.86 ft. = 1° 50½' for a 10° Curve

(These tables are published in Field Books of
KEUFFEL & ESSER CO., New York, N. Y.)



Dolphin 0.01 B.M.
 S. Bird Rock 10.62 H.I. N. Bird Rock
 ave. 40.63 ave.
 29.0 S.E. av. 29.0 N.E. av.
 470 cur. 1.63 11.63
 29 av 28.00 SW av 28.00 returned 6 high
 29 NE 12.63 12.63 n.w. cur. Dolphin
 29.5 no end cur 28.5 P.C. west side
 11.13 in East 12.13 Prop. 2 low
 28.50 no end cur 29.5 P.C. east side
 12.13 in West 11.13 80' north in west
 297.6 29.2
 10.87 11.43 Prop. 2 low.
 287.6 30.0 P.T. in west
 11.87 Prop. 2 low 10.63 P.T. in East
 30.0 So. end cur 31.0 P.T. in East
 10.63 in East 9.63 P.C. in south
 29.0 So. end cur 35.0
 1.63 in west 2.63 Prop. 2 high
 30.42 P.C. west 34.0 P.C. in north
 30.21 cur in so. 6.63 Prop. 2 high
 31.02 P.C. in north 472 cur. 4 "
 9.71 J.P. 52.09 H.I.
 33.0 P.T. in north 4031 39.47 01.73
 7.63 72.22 cur. along
 32.9 P.T. in south 3777 38.47
 8.63 Prop. 3 low 12.0 13.22 2 low
 33.5 P.C. in south 1477 46.0 48.46 in
 7.13 3731 6.09 cur
 34.5 P.C. in north 2778 48.0
 6.13 52.65 7.09 2 low
 35.0 28.17 So. in west 328.48
 6.63 J.P. 0.45
 36.0 23.18 So. in East 51.64
 4.63 4 high 12.70
 both prop. cur. 179.60 64.34 H.I.
 10.07 53.5 P.T. in
 10.84 Prop. 3 high
 52.5 P.T. in
 11.84 H.I.
 74.90 SW av
 66.9 return in
 65.5 SW av
 9.4 Prop. 3 low

12
50
60
100
150
200
250
300
350

13850 cur. 41568 3736
 R 4152 151.00 591.08
 22515 70860 22515
 365.93 708482 36593
 193492
 176950

Y-C SW cb 17.013
 Y-B NE " 9524
 3296 3.8
 1743 2.7
 1743 2.7
 117.3
 250
 2350
 1328
 1506
 21.3
 75
 106.5
 149.1
 163.0
 175

DISTANCES FROM CENTER OF ROADWAY FOR CROSS-SECTIONING.
 ROADWAY 14 FEET WIDE. SIDE SLOPES 1 1/2 TO 1.
 FOR SINGLE TRACK EMBANKMENT.

	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	
0	7.0	7.2	7.3	7.5	7.6	7.8	7.9	8.1	8.2	8.4	0
1	8.5	8.7	8.8	9.0	9.1	9.3	9.4	9.6	9.7	9.9	1
2	10.0	10.2	10.3	10.5	10.6	10.8	10.9	11.1	11.2	11.4	2
3	11.5	11.7	11.8	12.0	12.1	12.3	12.4	12.6	12.7	12.9	3
4	13.0	13.2	13.3	13.5	13.6	13.8	13.9	14.1	14.2	14.4	4
5	14.5	14.7	14.8	15.0	15.1	15.3	15.4	15.6	15.7	15.9	5
6	16.0	16.2	16.3	16.5	16.6	16.8	16.9	17.1	17.2	17.4	6
7	17.5	17.7	17.8	18.0	18.1	18.3	18.4	18.6	18.7	18.9	7
8	19.0	19.2	19.3	19.5	19.6	19.8	19.9	20.1	20.2	20.4	8
9	20.5	20.7	20.8	21.0	21.1	21.3	21.4	21.6	21.7	21.9	9
10	22.0	22.2	22.3	22.5	22.6	22.8	22.9	23.1	23.2	23.4	10
11	23.5	23.7	23.8	24.0	24.1	24.3	24.4	24.6	24.7	24.9	11
12	25.0	25.2	25.3	25.5	25.6	25.8	25.9	26.1	26.2	26.4	12
13	26.5	26.7	26.8	27.0	27.1	27.3	27.4	27.6	27.7	27.9	13
14	28.0	28.2	28.3	28.5	28.6	28.8	28.9	29.1	29.2	29.4	14
15	29.5	29.7	29.8	30.0	30.1	30.3	30.4	30.6	30.7	30.9	15
16	31.0	31.2	31.3	31.5	31.6	31.8	31.9	32.1	32.2	32.4	16
17	32.5	32.7	32.8	33.0	33.1	33.3	33.4	33.6	33.7	33.9	17
18	34.0	34.2	34.3	34.5	34.6	34.8	34.9	35.1	35.2	35.4	18
19	35.5	35.7	35.8	36.0	36.1	36.3	36.4	36.6	36.7	36.9	19
20	37.0	37.2	37.3	37.5	37.6	37.8	37.9	38.1	38.2	38.4	20
21	38.5	38.7	38.8	39.0	39.1	39.3	39.4	39.6	39.7	39.9	21
22	40.0	40.2	40.3	40.5	40.6	40.8	40.9	41.1	41.2	41.4	22
23	41.5	41.7	41.8	42.0	42.1	42.3	42.4	42.6	42.7	42.9	23
24	43.0	43.2	43.3	43.5	43.6	43.8	43.9	44.1	44.2	44.4	24
25	44.5	44.7	44.8	45.0	45.1	45.3	45.4	45.6	45.7	45.9	25
26	46.0	46.2	46.3	46.5	46.6	46.8	46.9	47.1	47.2	47.4	26
27	47.5	47.7	47.8	48.0	48.1	48.3	48.4	48.6	48.7	48.9	27
28	49.0	49.2	49.3	49.5	49.6	49.8	49.9	50.1	50.2	50.4	28
29	50.5	50.7	50.8	51.0	51.1	51.3	51.4	51.6	51.7	51.9	29
30	52.0	52.2	52.3	52.5	52.6	52.8	52.9	53.1	53.2	53.4	30
31	53.5	53.7	53.8	54.0	54.1	54.3	54.4	54.6	54.7	54.9	31
32	55.0	55.2	55.3	55.5	55.6	55.8	55.9	56.1	56.2	56.4	32
33	56.5	56.7	56.8	57.0	57.1	57.3	57.4	57.6	57.7	57.9	33
34	58.0	58.2	58.3	58.5	58.6	58.8	58.9	59.1	59.2	59.4	34
35	59.5	59.7	59.8	60.0	60.1	60.3	60.4	60.6	60.7	60.9	35
36	61.0	61.2	61.3	61.5	61.6	61.8	61.9	62.1	62.2	62.4	36

Calculated by Julien A. Hall, M. Am. Soc. C. E.

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