

1455

ATLANTIC STREET
BORROW PIT

46

Field Book

FIELD BOOK

373 A

VN-SD-2-E

Cont. 42VC16

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.

" Copyright, 1896, by Keuffel & Esser Co."

	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.

ENGINEERING DEPARTMENT
CITY OF SAN DIEGO,
CALIFORNIA.

Index		Page
Borrow-Pit Area bet. Atlantic St. & A.T.S. F.R.R.		
Sta. 139+00 to Sta. 208+00	X. Sects	1-38
Final X-Sects. Sta 167+34 to 180+50	on Right	39-45
" " "	Sta 200+25 to 207+00	on Right 46-47
" " "	Sta 168+00 to 178+50	on Left 48-51
" " "	Sta. 189+37 - 190+68 muck removed back of slopes.	52
Cross-Sept. of Ramp Left & Sta 185+25		76

X Sec. Area Bet. Atlantic St.
 ♀ W. line AT + S.F.R.R. Rt. of W.
 For Borrow Pit

3-7-33
 Miller
 Walker
 Bliss

+

11.86

Elev.

B.M. P.O.T. Hub	All Readings taken E. of E. Line 100' Rt. of Way	H.I.	Rod	Elev.	♀ Atlantic			Elev.
Sta 144+00	11.90	6.92 ✓	-4.98		77' Rt		10.3	1.6 ✓
T.P.	10.33	11.86 ✓	5.39	1.53 ✓	85' "		10.9	1.0 ✓
					95' "	P	10.0	1.9 ✓
					125' "		8.0	3.9 ✓
142' Rt. S.F. Fence			5.7	6.2 ✓	158' "		5.7	6.2 ✓
154' " Gas Main								
							140+00	
125' " ♀ E. Line Atlantic			8.4	3.5 ✓	207.7 Rt. = E. Rail S.F		0.93	10.93 ✓
114' "			9.1	2.8 ✓	203.0 " = W. " "		0.95	10.91 ✓
105' "			10.7	1.2 ✓	200' "		1.6	10.3 ✓
89' "			11.1	0.8 ✓	186' "	P	4.7	7.2 ✓
80' "			10.2	1.7 ✓	155' " = S.F. Fence		6.1	5.8 ✓
68' "			10.4	1.5 ✓	125' "		7.9	4.0 ✓
63' "			13.1	-1.2 -2.2	88' "		9.6	2.3 ✓
25' "			14.2	-2.3 ✓	85' "		10.8	1.1 ✓
15' "			14.5	-2.6 ✓	65' "		10.3	1.6 ✓
					57' "		11.4	0.5 ✓
15 Rt			14.9	-3.0 ✓	31' "		12.4	-0.5 ✓
25' "			13.7	-1.8 ✓	30' "		13.8	-1.9 ✓
40' "			12.5	-0.6 ✓	25' "		14.4	-2.5 ✓
65' "			10.1	1.8 ✓				

+				+			
	11.86	-	Elev.		11.86	-	Atlantic St. Barrow Pit
	140+35				141+00		Elev.
15' RT		15.0	-3.1 ✓	0.0		16.0	-4.1 ✓
25' "		14.3	-2.4 ✓	7' RT		15.0	-3.1 ✓
33' "	P	11.8	0.1 ✓	15' "		10.4	1.5 ✓
50' "		11.4	0.5 ✓	25' "	P	9.6	2.3 ✓
55' "		11.7	0.2 ✓	46' "			9.7
60' "		10.5	1.4 ✓	52' "		10.6	1.3 ✓
80' "		10.3	1.6 ✓	73' "		10.5	1.4 ✓
88' "		8.9	3.0 ✓	85' "		7.4	4.5 ✓
100' "		8.7	3.2 ✓	100' "		7.4	4.5 ✓
125' "		7.7	4.2 ✓	125' "		6.5	5.4 ✓
152.4' "	S.F. Fence	6.2	5.7 ✓	148.7' "	S.F. Fence	5.4	6.5 ✓
	140+50				141+15'		
152' RT = S.F. Fence		6.1	5.8 ✓	148' RT = S.F. Fence		5.4	6.5 ✓
125' "		7.6	4.3 ✓	125' "		6.3	5.6 ✓
100' "		8.4	3.5 ✓	100' "		7.2	4.7 ✓
88' "		8.4	3.5 ✓	83' "		7.9	4.0 ✓
77' "		10.5	1.4 ✓	71' "		10.7	1.2 ✓
60' "		10.3	1.6 ✓	52' "		10.5	1.4 ✓
50' "		11.2	0.7 ✓	45' "		9.4	2.5 ✓
25' "	P	11.0	0.9 ✓	25' "		9.3	2.6 ✓
15' "			15.0	-3.1 ✓			

	+	^h 11.86	-	Elev.
6' Rt.		D	141+15 11.0	0.9 ✓
00 = C. Line.	Atlantic		15.7	-3.8 ✓
TP	5.26	11.56 ✓	5.56	6.30 ✓ pipe
	141+30			
10' Rt.			14.0	-2.4 ✓
21' Rt.			13.8	-2.2 ✓
23' Rt.		D	8.4	3.2 ✓
47' Rt.		✓	8.4	3.2 ✓
53' Rt.			10.3	1.3 ✓
73' Rt.			10.1	1.5 ✓
87' Rt.			7.2	4.4 ✓
100' Rt.			6.9	4.7 ✓
125' Rt.			5.7	5.9 ✓
146.5 Rt.	= S.F. Fence		4.5	7.1 ✓
	141+50			
145.7 Rt.	= S.F. Fence		4.2	7.4 ✓
125' Rt.			5.5	6.1 ✓
100' Rt.			6.8	4.8 ✓
87' Rt.			7.4	4.2 ✓
71' Rt.			10.2	1.4 ✓

	+	^h 11.56	Atlantic	st. Borrow Pit.	Elev.
55' Rt.				10.1	1.5 ✓
45' Rt.		D		7.9	3.7 ✓
25' Rt.				6.7	4.9 ✓
20' Rt.				13.3	-1.7 ✓
	142+00				
20' Rt.				12.6	-2.0 ✓
25' Rt.				13.0	-1.4 ✓
28' Rt.				5.6	6.0 ✓
37' Rt.				6.7	4.9 ✓
43' Rt.		A		9.2	2.4 ✓
69' Rt.				10.1	1.5 ✓
75' Rt.				7.9	3.7 ✓
82' Rt.				7.0	4.6 ✓
100' Rt.				6.3	5.3 ✓
125' Rt.				4.9	6.7 ✓
142' Rt.	= Santa Fe Fence			4.0	7.6 ✓
150' Rt.				4.7	6.9 ✓
165' Rt.				3.0	8.6 ✓
185' Rt.				2.2	9.4 ✓
187' Rt.				1.3	10.3 ✓

+	T 1156	-	Elev.
190' Rt. = West Rail Santa Fe		0.66	10.90 ✓
194.7' Rt. = East. " " "		0.66	10.90 ✓
142+50			
139' Rt. = Santa Fe Fence		4.6	7.0 ✓
125' Rt.		5.3	6.3 ✓
100' Rt.	P	6.0	5.6 ✓
75' Rt.		7.3	4.3 ✓
69' Rt.		9.9	1.7 ✓
48' Rt.		10.2	1.4 ✓
42' Rt.		9.5	2.1 ✓
35' Rt.		6.3	5.3 ✓
27' Rt.		5.4	6.2 ✓
25' Rt.		11.8	-0.2 ✓
20' Rt.		13.9	-2.3 ✓
143+00			
18' Rt.		14.6	-3.0 ✓
22' Rt.		6.8	4.8 ✓
37' Rt.	P	7.9	3.7 ✓
40' Rt.		10.0	1.6 ✓
65' Rt.		10.3	1.3 ✓

+	T 1156	-	Elev.	Atlantic St. Borrow Pit.
74' Rt.		7.3	4.3 ✓	4
100' Rt.		7.0	4.6 ✓	
125' Rt.		6.2	5.4 ✓	
136' Rt. = Santa Fe Fence		5.7	5.9 ✓	
143+25				
134' Rt. = Santa Fe Fence		7.3	4.3 ✓	
125' Rt.	P	6.8	4.8 ✓	
100' Rt.		7.7	3.9 ✓	
73' Rt.		7.5	4.1 ✓	
68' Rt.		9.4	2.2 ✓	
62' Rt.		10.2	1.4 ✓	
40' Rt.		10.2	1.4 ✓	
30' Rt.		7.7	3.9 ✓	
25' Rt.		7.5	4.1 ✓	
20' Rt.		13.9	-2.3 ✓	
143+50				
25' Rt.		13.5	-1.9 ✓	
29' Rt.	P	12.6	-1.0 ✓	
30' Rt.		9.7	+1.9 ✓	
37' Rt.		10.9	0.7 ✓	

1156

45' Rt	10.0	1.6	✓
60' Rt	10.5	1.1	✓
75' Rt	8.4	3.2	✓
100' Rt	8.4	3.2	✓
132.6' = S.F. Fence	8.6	3.0	✓

143+7.5

131.3 = Santa Fe Fence	7.7	3.9	✓
115' Rt	9.3	2.3	✓
100' Rt	10.8	0.8	✓
85' Rt	9.8	1.8	✓
80' Rt	10.9	0.7	✓
60' Rt	11.3	0.3	✓
57' Rt	10.3	1.3	✓
44' Rt	10.1	1.5	✓
40' Rt	11.8	-0.2	✓
25' Rt	14.7	-3.1	✓

144+00 = P.O.T.

25' Rt	14.5	-2.9	✓
38' Rt	12.8	-1.2	✓
42' Rt	10.2	1.4	✓

1156

Borrow Pit
Atlantic St.

5

57' Rt	10.4	1.2	✓
65' Rt	12.7	-1.1	✓
80' Rt	11.7	-0.1	✓
85' Rt	10.4	1.2	✓
100' Rt	9.7	1.9	✓

129.5 = Santa Fe Fence

45' Rt	8.0	3.6	✓
160' Rt	6.6	5.0	✓
167' Rt	3.3	8.3	✓
174' Rt	14	10.2	✓
177' = West Rail Santa Fe	0.60	10.96	✓
181.72 = East " " "	0.59	10.97	✓

144+25

128' Rt = Santa Fe Fence	7.2	4.4 3.4	✓
120' Rt = L Gas Main	7.5	4.1	✓
100' Rt	8.7	2.9	✓
70' Rt	9.6	2.0	✓
60' Rt	10.7	0.9	✓
40' Rt	10.3	1.3	✓
31' Rt	11.3	0.8	✓

11.56

11.56

Borrow Pit
Atlantic St.

6

38' Rt	P	13.4	-1.8	✓
20' Rt		14.8	-3.2	✓
144+50				
15' Rt		14.8	-3.2	✓
17' Rt		9.8	1.8	✓
27' Rt		11.0	0.6	✓
40' Rt	P	10.4	1.2	✓
56' Rt		10.6	1.0	✓
70' Rt		8.7	2.9	✓
100' Rt		8.1	3.5	✓
126' Rt = Santa Fe Fence		7.4	4.2	✓

20' Rt		9.6	2.0	✓
15' Rt		14.1	-2.5	✓
145+25				
20' Rt		13.9	-2.3	✓
25' Rt		10.7	0.9	✓
30' Rt		11.2	0.4	✓
35' Rt		10.3	1.3	✓
49' Rt		10.1	1.5	✓
50' Rt	P	10.7	0.9	✓
64' Rt		10.0	1.6	✓
65' Rt		9.2	2.4	✓
100' Rt		8.3	3.3	✓
121' Rt = Santa Fe Fence		7.9	3.7	✓

145+00				
123' Rt = Santa Fe Fence		8.0	3.6	✓
100' Rt		8.3	3.3	✓
70' Rt		9.1	2.5	✓
65' Rt	P	9.8	1.8	✓
52' Rt		10.7	0.9	✓
50' Rt		10.1	1.5	✓
35' Rt		10.4	1.2	✓
25' Rt		11.1	0.5	✓

145+50				
119.8' Rt = Santa Fe Fence		8.7	2.9	✓
100' Rt		8.4	3.2	✓
60' Rt		9.2	2.4	✓
55' Rt		10.2	1.4	✓
50' Rt		10.8	.8	✓
48' Rt		10.1	1.5	✓

1156

25' Rt.	19.7	0.9	✓
20' Rt.	8.8	2.8	✓
2' Rt.	9.5	2.1	✓
0.0 = East Line Atlantic	15.9	-4.3	✓
145+63			
20' Rt.	13.7	-2.1	✓
22' Rt.	10.2	1.4	✓
31' Rt.	11.0	0.6	✓
34' Rt.	10.1	1.5	✓
47' Rt.	10.0	1.6	✓
51' Rt.	10.8	0.8	✓
60' Rt.	9.1	2.5	✓
100' Rt.	8.2	3.4	✓
119' Rt. = Santa Fe Fence	9.1	2.5	✓
146+00			
168.9' Rt. = East Rail Santa Fe	0.71	10.85	✓
164.2" = " " " "	0.70	10.86	✓
162' Rt.	1.6	10.0	✓
159' Rt.	2.4	9.2	✓
151' Rt.	3.5	8.1	✓

1156

Borrow Pit
Atlantic St

7

144' Rt.	7.8	3.8	✓
135' Rt.	9.4	2.2	✓
117' Rt. = Santa Fe Fence	8.6	3.0	✓
100' Rt.	7.8	3.8	✓
56' Rt.	8.6	3.0	✓
52' Rt.	10.3	1.3	✓
25' Rt.	10.5	1.1	✓
17' Rt.	9.3	2.3	✓
10' Rt.	14.3	-2.7	✓
146+15			
2' Rt.	15.3	-3.7	✓
10' Rt.	9.1	2.5	✓
25' Rt.	10.3	1.3	✓
52' Rt.	10.1	1.5	✓
54' Rt.	8.3	3.3	✓
100' Rt.	7.8	3.8	✓
116' Rt. = Santa Fe Fence	8.2	3.4	✓
146+50			
113' Rt. = Santa Fe Fence	8.2	3.4	✓
100' Rt.	7.5	4.1	✓

π
11.56

57' Rt.	81	3.5 ✓
53' Rt.	10.3	1.3 ✓
33' Rt.	11.2	0.4 ✓
15' Rt.	14.2	-2.6 ✓
147+00		
23' Rt.	13.1	-1.5 ✓
27' Rt.	10.1	1.5 ✓
33' Rt.	10.6	1.0 ✓
48' Rt.	9.8	1.8 ✓
50' Rt.	7.8	3.8 ✓
85' Rt.	7.5	4.1 ✓
100' Rt.	6.6	5.0 ✓
111' Rt. = Santa Fe Fence	6.9	4.7 ✓
147+50		
107' Rt. = Santa Fe Fence	6.2	5.4 ✓
100' Rt.	6.2	5.4 ✓
85' Rt.	7.2	4.4 ✓
49' Rt.	7.1	4.5 ✓
47' Rt.	10.1	1.5 ✓
25' Rt.	10.4	1.2 ✓

P

P

P

π
11.56

Allantic St.
Borromy Pit

8

15' Rt.	14.1	-2.5 ✓
148+00		
15' Rt.	11.9	-0.3 ✓
20' Rt.	10.0	1.2 ✓
43' Rt.	10.4	1.2 ✓
48' Rt.	7.1	4.5 ✓
80' Rt.	7.2	4.4 ✓
103.5' Rt. = Santa Fe Fence	6.1	5.5 ✓
113' Rt.	7.2	4.4 ✓
131' Rt.	7.1	4.5 ✓
140' Rt.	3.2	8.4 ✓
150' Rt.	1.50	10.1 ✓
151.4 = West Rail Santa Fe	0.76	10.8 ✓
156.1 = East " " "	0.75	10.8 ✓
T.P.	5.85	12.38 ✓
148+50		
100' Rt. = Santa Fe Fence	6.4	6.0 ✓
78' Rt.	7.4	5.0 ✓
46' Rt.	7.0	5.4 ✓
40' Rt.	11.9	0.7 ✓

P

12.38

18' Rt.	P	11.2	1.2 ✓
10' Rt.		14.6	-2.2 ✓
	149+00		
10' Rt.		15.0	-2.6 ✓
16' Rt.		11.0	1.4 ✓
35' Rt.		11.8	0.6 ✓
41' Rt.		10.5	1.9 ✓
43' Rt.	Q	6.3	6.1 ✓
75' Rt.		6.3	6.1 ✓
97' Rt. = Santa Fe Fence		5.4	7.0 ✓
	149+50		
74' Rt. = Santa Fe Fence		4.2	8.2 ✓
70' Rt.		5.5	6.9 ✓
43' Rt.		5.6	6.8 ✓
41' Rt.	Q	9.9	2.5 ✓
35' Rt.		11.4	1.0 ✓
15' Rt.		11.1	1.3 ✓
8' Rt.		15.2	-2.8 ✓
	150+00		
2' Rt.		16.0	-3.6 ✓

12.38

Borrow Pit.
Atlantic St.

9

11' Rt.		10.9	1.5 ✓
34' Rt.		11.0	1.4 ✓
38' Rt.		9.6	2.8 ✓
41' Rt.	Q	5.4	7.0 ✓
67' Rt.		5.2	7.2 ✓
91' Rt. = Santa Fe Fence		3.9	8.5 ✓
132' Rt.		3.1	9.3 ✓
134' Rt.		2.2	10.2 ✓
138.2 = West Rail Santa Fe		1.51	10.87 ✓
142.9 = East " " "		1.51	10.87 ✓
	150+50		
87.5' Rt. = Santa Fe Fence		3.9	8.5 ✓
65' Rt.	Q	4.9	7.5 ✓
38' Rt.		5.2	7.2 ✓
34' Rt.		10.5	1.9 ✓
9' Rt.		11.0	1.4 ✓
3' Rt.		15.0	-2.6 ✓
	151+00		
2' Rt.		14.5	-2.11 ✓
6' Rt.		11.1	1.3 ✓

12.38

27' Rt.	10.4	2.0 ✓
33' Rt.	5.5	6.9 ✓
60' Rt.	5.9	6.5 ✓
84' Rt. = Santa Fe Fence	5.4	7.0 ✓
151 + 50		
81' Rt. = Santa Fe Fence	5.0	7.4 ✓
70' Rt.	5.8	6.6 ✓
29' Rt.	7.9	4.5 ✓
25' Rt.	10.6	1.8 ✓
2' Rt.	11.5	0.9 ✓
152 + 00		
0.0 = East Line Atlantic	11.3	1.1 ✓
24' Rt.	10.5	1.9 ✓
28' Rt.	6.3	6.1 ✓
55' Rt.	6.2	6.2 ✓
77.6' Rt. = Santa Fe Fence	4.7	7.7 ✓
105' Rt.	4.0	8.4 ✓
110' Rt.	2.8	9.6 ✓
123' Rt.	2.3	10.1 ✓
125.2' Rt. = West Rail Santa Fe	1.61	10.77 ✓

12.38

Borrow Pit
Atlantic St.

10

129.9' Rt. = East Rail Santa Fe	1.59	10.79 ✓
152 + 50		
74.7' Rt. = Santa Fe Fence	4.9	7.5 ✓
50' Rt.	6.4	6.0 ✓
26' Rt.	6.6	5.8 ✓
24' Rt.	9.6	2.8 ✓
0.0 = East Line Atlantic	10.9	1.5 ✓
152 + 70		
0.0 = East Line Atlantic	10.9	1.5 ✓
23' Rt.	9.4	3.0 ✓
25' Rt.	6.7	5.7 ✓
50' Rt.	6.4	6.0 ✓
73.3' Rt. = Santa Fe Fence	4.9	7.5 ✓
153 + 00		
71.6' Rt. = Santa Fe Fence	5.4	7.0 ✓
50' Rt.	6.6	5.8 ✓
23' Rt.	6.6	5.8 ✓
19' Rt.	9.6	2.8 ✓
0.0 = East Line Atlantic	11.0	1.4 ✓
153 + 50		

12.38

0.0 = East Line Atlantic	11.0	1.4 ✓
17' Rt.	10.4	2.0 ✓
19' Rt.	7.5	4.9 ✓
45' Rt.	7.4	5.0 ✓
68.3' Rt. = Fence	5.8	6.6 ✓

154+00

107.7' Rt. = East Rail Santa Fe	2.03	10.35 ✓
112.4' Rt. " " " "	2.06	10.32 ✓
118' Rt.	2.8	9.6 ✓
106' Rt.	2.9	8.5 ✓
95' Rt.	6.2	6.2 ✓
65' Rt. = Fence	6.7	5.7 ✓
40' Rt.	8.0	4.4 ✓
16' Rt.	7.9	4.5 ✓
15' Rt.	10.5	1.9 ✓
0.0 = East Line Atlantic	10.8	1.6 ✓

154+25

0.0 = East Line Atlantic	10.7	1.7 ✓
13' Rt.	10.4	2.0 ✓
15' Rt.	8.2	4.2 ✓

12.38

Borrow Pit Atlantic St. 11

40' Rt.	8.2	4.2 ✓
63.6' Rt. = Fence	7.0	5.4 ✓
154+50		
62' Rt. = Fence	7.4	5.0 ✓
40' Rt.	7.8	4.6 ✓
11' Rt.	8.6	3.8 ✓
9' Rt.	10.0	2.4 ✓
0.0 = East Line Atlantic	10.0	2.4 ✓

154+75

0.0 = East Line Atlantic	10.3	2.1 ✓
10' Rt.	10.4	2.0 ✓
13' Rt.	8.4	4.0 ✓
40' Rt.	8.1	4.3 ✓
60' Rt. = Fence	7.6	4.8 ✓

155+00

59' Rt. = Fence	7.9	4.5 ✓
35' Rt.	8.6	3.8 ✓
11' Rt.	8.5	3.9 ✓
9' Rt.	10.2	2.2 ✓
0.0 = East Line Atlantic	10.5	1.9 ✓

12.38

T.P. on BM.	7.05	5.33 ✓
on BM. 5.72	11.04 ✓	5.32 = correct
155+25		
0.0 = E. Line Atlantic	9.2	1.8 ✓
8' Rt.	9.2	1.8 ✓
10' Rt.	P	7.5 3.5 ✓
35' Rt.		7.6 3.4 ✓
57.3' Rt. = Fence	6.7	4.3 ✓
155+50		
56' Rt. = Fence	6.1	4.9 ✓
53' Rt.	6.9	4.1 ✓
30' Rt.	8.0	3.0 ✓
10' Rt.	8.0	3.0 ✓
5' Rt.	9.3	1.7 ✓
0.0 = East Line Atlantic	9.3	1.7 ✓
155+75		
0.0 = E. Line Atlantic	9.2	1.8 ✓
30' Rt.	8.2	2.8 ✓
52' Rt.	6.7	4.3 ✓
54' Rt. = Santa Fe Fence	6.0	5.0 ✓

11.04

Atlantic St.
Barrow Pit

12

156+00		
104.3 = East Rail Santa Fe	1.39	9.65 ✓
99.6 = West " " "	1.40	9.64 ✓
97' Rt.	2.1	8.9 ✓
94' Rt.	X	3.3 7.7 ✓
85' Rt.	6.6	7.4 ✓
53' Rt. = Santa Fe Fence	6.8	4.2 ✓
30' Rt.	8.4	2.6 ✓
10' Rt.	8.6	2.4 ✓
0.0 = E. Line Atlantic	9.5	1.5 ✓
156+50		
0.0 = E. Line Atlantic	9.6	1.4 ✓
5' Rt.	8.9	2.1 ✓
25' Rt.	8.6	2.4 ✓
49.6' Rt. = Fence	7.6	3.4 ✓
157+00		
46.4' Rt. = Fence	7.9	3.1 ✓
17' Rt.	8.3	2.7 ✓
10' Rt.	9.7	1.3 ✓
0.0 = E. Line Atlantic	9.9	1.1 ✓

1104

157+50

0.0 = E. Line Atlantic	9.3	1.7	✓
10' Rt.	8.4	2.6	✓
43.8' Rt. = Santa Fe Fence	8.4	2.6	✓

158+00

91.4' Rt. = East Rail Santa Fe	2.15	8.89	✓
86.7' Rt. = West Rail " "	2.15	8.89	✓
85' Rt.	2.8	8.2	✓
83' Rt.	3.8	7.2	✓
78' Rt.	4.3	6.7	✓
71' Rt.	8.5	2.5	✓
39.5' Rt. = Santa Fe Fence	9.0	2.0	✓
0.0 = East Line Atlantic	8.8	2.2	✓

158+50

0.0 = E. Line Atlantic	9.6	1.4	✓
36.6' Rt. = Santa Fe Fence	9.3	1.7	✓

159+00

332' Rt. = Santa Fe Fence	9.7	1.3	✓
0.0 = E Line Atlantic	10.7	0.3	✓

159+50

11.04

Atlantic St.
Borrow Pit.

13

0.0 = E. Line Atlantic	10.4	0.6	✓
30' Rt. = Santa Fe Fence	9.7	1.3	✓

160+00

26.8' Rt. Santa Fe Fence	9.5	1.5	✓
0.0 = East Line Atlantic	9.5	1.5	✓

160+34.85=BC.

0.0 = East Line Atlantic	9.3	1.7	✓
16' Rt. = Gas Main.			
24.6' Rt. = Santa Fe Fence	9.1	1.9	✓

55' Rt.	8.8	2.1	✓
---------	-----	-----	---

62' Rt.	4.9	6.1	✓
---------	-----	-----	---

69' Rt.	3.0	8.0	✓
---------	-----	-----	---

71.1' Rt. = West Rail Santa Fe	2.39	8.65	✓
--------------------------------	------	------	---

75.8' Rt. = East Rail " "	2.38	8.66	✓
---------------------------	------	------	---

T.P.	8.85	10.96	8.93	2.11	160+34.85=BC.
------	------	-------	------	------	---------------



160+50

Note: From and Including this station 160+50 North, all outs are from E Atlantic St. instead of East Line as noted heretofore

74' Rt. = Fence Santa Fe	8.8	2.2	✓
--------------------------	-----	-----	---

50' Rt. of E	9.0	2.0	✓
--------------	-----	-----	---

10.96

160+80		P	
50' Rt.	9.2	1.8	9.2 ✓
72.2' Rt. = Santa Fe Fence	8.5	2.5	
161+00			
708' Rt. = Fence	8.8	2.2	✓ P
50' Rt.	9.0	2.0	✓
161+12			
50' Rt.	9.2	1.8	✓
70.5' Rt. = Fence	8.9	2.1	✓ P
161+50			
68.3' Rt. = Fence	9.0	2.0	✓
50' Rt.	9.3	1.7	✓ P
162+00			
50' Rt.	9.4	1.6	✓
58' Rt. = 8' Gas Main.			
66.5' Rt. = Fence	8.9	2.1	✓
90' Rt.	9.4	1.6	✓ P
97' Rt.	8.4	2.6	✓
104' Rt.	4.7	6.3	✓
111' Rt.	2.8	8.2	✓

10.96

Atlantic St.
Borrow Pit.

14

113.5' Rt. = West Rail Santa Fe.	198	8.98	✓
118.2' Rt. East " " "	199	8.97	✓
162+50			
65' Rt. = Fence	8.6	2.4	✓
50' Rt.	9.3	1.7	✓ P
163+00			
50' Rt.	8.8	2.2	✓
64.5' Rt. = Fence	8.6	2.4	✓ P
163+50			
64.5' Rt. = Fence	8.0	3.0	✓ P
50' Rt.	8.5	2.5	✓
164+00			
50' Rt.	8.0	3.0	✓
58' Rt. = 8' Gas Main	7.2	3.8	✓ P
65.2' Rt. = Fence	7.0	4.0	✓
87' Rt.	8.0	3.0	✓
98' Rt.	6.6	4.4	✓
105' Rt.	3.1	7.9	✓
110' Rt.	1.9	9.1	✓
112' Rt. = West Rail Santa Fe.	1.06	9.90	✓
116.7' - E " " "	1.05	9.91	✓

1096

164+50			
66.6' Rt. = Fence	6.6	4.4	✓
50' Rt.	7.5	3.5	✓ 7
165+00			
50' Rt.	6.7	4.3	✓
68.2' Rt. = Santa Fe Fence	6.2	4.8	✓ 8
165+50			
70.2' Rt. = Fence	6.0	5.0	✓
50' Rt.	6.8	4.2	✓ P
166+00			
50' Rt.	6.4	4.6	✓
72.4' Rt. = Fence	5.8	5.2	✓
104' Rt.	4.8	6.2	✓ P
111' Rt.	1.4	9.6	✓
118' Rt.	0.5	10.5	✓
119.8' Rt. = West Rail Santa Fe	+0.11	10.85	✓
124.5' Rt. = " " " "	+0.34	10.62	✓
166+50			
74.4' Rt. = Fence	5.2	5.8	✓ 8
50' Rt.	6.2	4.8	✓

1096

15

50' Lt.	9.0	2.0	✓
100' Lt.	11.7	-0.7	✓
115' Lt.	11.8	-0.8	✓
167+00			
122' Lt.	11.7	-0.7	✓
100' Lt.	11.6	-0.6	✓
50' Lt.	8.9	2.1	✓
50' Rt.	5.8	5.2	✓ 8
78' Rt. = Fence	4.3	6.7	✓
167+50			
80' Rt. = Fence	3.4	7.6	✓
50' Rt.	5.2	5.8	✓
50' Lt.	8.5	2.5	✓
100' Lt.	10.6	0.4	✓ 8
130' Lt.	11.5	-0.5	✓
168+00			
140' Lt.	11.3	-0.3	✓
100' Lt.	10.1	0.9	✓
50' Lt.	7.9	3.1	✓
50' Rt.	6.1	4.4	✓ 8

10.96

T.P.	11.01	16.05	5.92	5.04	✓
50' Rt.			9.2	6.8	✓
73' Rt. = Gas Main			8.2	7.8	✓
81' Rt. = Santa Fe Fence			8.0	8.0	✓
113' Rt.			6.4	9.6	✓
122' Rt.			5.4	10.6	✓
126' Rt.			4.1	11.9	✓
128.4' Rt. = West Bail Santa Fe			3.38	12.67	✓
133.1' Rt. East " " "			3.15	12.90	✓
	168+50				
83' Rt. = Fence			7.2	8.8	✓
50' Rt.			8.9	7.1	✓
50' Lt.			12.4	3.6	✓
57' Lt.			13.1	12.9	✓
70' Lt.			12.6	³ 4.4	✓
90' Lt.			14.5	1.5	✓
148' Lt.			16.1	-0.1	✓
153' Lt.			17.9	-1.9	✓
	169+00				
155' Lt.			17.9	-1.9	✓
150' Lt.			15.7	0.3	✓
100' Lt.			14.6	1.4	✓

16.05

16

75' Lt.			12.3	3.7	✓
60' Lt.			13.0	3.0	✓
50' Lt.			12.0	4.0	✓
50' Rt.			8.5	7.5	✓
85' Rt. = Santa Fe Fence			6.7	9.3	✓
	169+50				
86.5' Rt. = Fence			5.5	10.5	✓
65' Rt.			7.4	8.6	✓
50' Rt.			7.6	8.4	✓
50' Lt.			11.9	4.1	✓
60' Lt.			12.5	3.5	✓
85' Lt.			12.1	3.9	✓
100' Lt.			13.3	2.7	✓
160' Lt.			14.6	1.4	✓
chk. BM #			4.59	11.46	✓ on 42' lot
T.P.	5.87	13.87	8.05	8.00	✓ 170+00
165' Lt.			15.7	-1.8	✓
	169+80				
184' Lt.			16.1	-2.2	✓
170' Lt.			14.7	-0.8	✓

1387

148' Lt.	14.1	-0.2	✓
144' Lt.	12.0	1.9	✓
115' Lt.	11.3	2.6	✓
90' Lt.	8.8	5.1	✓
60' Lt.	10.0	3.9	✓
58' Rt.	5.4	8.5	✓
64' Rt.	3.1	10.8	✓
87' Rt. = Fence	2.7	11.2	✓
169+90			
87' Rt. = Fence	3.1	10.8	✓
75' Rt.	3.0	10.9	✓
57' Rt.	5.3	8.6	✓
65' Lt.	10.0	3.9	✓
85' Lt.	8.9	5.0	✓
114' Lt.	11.4	2.5	✓
118' Lt.	14.4	-0.5	✓
145' Lt.	15.2	-1.3	✓
180' Lt.	15.4	-1.7	✓
215' Lt.	17.0	-3.1	✓

170+00

1387

17

215' Lt.	16.6	-2.7	✓
175' Lt.	15.4	-1.5	✓
148' Lt.	13.6	0.3	✓
106' Lt.	14.8	-0.9	✓
100' Lt.	10.5	3.4	✓
85' Lt.	9.3	4.6	✓
65' Lt.	10.3	3.6	✓
54' Rt.	5.6	8.3	✓
64' Lt. [?] Moked R.	3.9	10.0	✓
80' Rt. = Gas Main	3.8	10.6	✓ ←
88' Rt. = Santa Fe Fence	3.0	10.9	✓
118' Rt.	2.8	11.1	✓
123' Rt.	1.4	12.5	✓
132' Rt.	0.0	13.9	✓
135' Rt. = West Rail Santa Fe	+0.81	13.06	✓
139.7' " = E " " "	+1.03	12.84	✓
170+10			
88' Rt. = Fence	2.6	11.3	✓
67' Rt.	4.1	9.8	✓
70' Lt.	10.5	3.4	✓

1387

78' Lt	15.4	-1.5 ✓
113' Lt	13.4	0.5 ✓
121' Lt	11.6	2.3 ✓
128' Lt	11.7	2.2 ✓
134' Lt	13.3	0.6 ✓
150' Lt	13.7	0.2 ✓
169' Lt	16.1	-2.3 ✓
215' Lt	16.3	-2.4 ✓

170+37

230' Lt	16.4	-2.5 ✓
150' Lt	14.7	-0.8 ✓
150' Lt	13.4	0.5 ✓
123' Lt	11.5	2.4 ✓
84' Lt	10.0	3.9 ✓
75' Lt	12.0	1.9 ✓
74' Lt	14.3	-0.4 ✓
71' Lt	13.9	0.0 ✓
54' Lt	10.2	3.7 ✓
58' Lt	4.7	9.2 ✓
89' Lt = Fence	3.4	10.5 ✓

1387

18

170+50

89' Lt = Fence	3.4	10.5 ✓
68' Lt	4.0	9.9 ✓
60' Lt	5.4	8.5 ✓
57' Lt	11.5	2.4 ✓
72' Lt	12.6	1.3 ✓
78' Lt	9.3	4.6 ✓
140' Lt	11.2	2.7 ✓
165' Lt	12.6	1.3 ✓
170' Lt	14.8	-0.9 ✓
245' Lt	16.4	-2.5 ✓

170+58

245' Lt	16.6	-2.7 ✓
170' Lt	15.3	-1.4 ✓
165' Lt	12.3	1.6 ✓
140' Lt	11.1	2.8 ✓
78' Lt	8.9	5.0 ✓
70' Lt	11.4	2.5 ✓
56' Lt	10.0	3.9 ✓
60' Lt	6.4	7.5 ✓

13.87

70' Rt	4.6	9.3 ✓
82' Rt	4.4	9.5 ✓
89' Rt = Fence	6.0	7.9 ✓
170 + 66		
88.5' Rt = Fence	9.4	4.5 ✓
82' Rt = Gas Main ^{on Rt} = 7.09	6.78	✓
79' Rt	8.4	5.5 ✓
76' Rt	4.1	9.8 ✓
59' Rt	7.8	6.1 ✓
52' Rt	8.8	5.1 ✓
56' Lt	9.9	4.0 ✓
68' Lt	10.6	3.3 ✓
76' Lt	7.9	6.0 ✓
100' Lt	9.8	4.1 ✓
143' Lt	11.3	2.6 ✓
165' Lt	12.5	1.4 ✓
169' Lt	14.9	-1.0 ✓
175' Lt	16.4	-2.5 ✓
170 + 75		
175' Lt	16.4	-2.5 ✓

13.87

19

167' Lt	14.4	-0.5 ✓
164' Lt	12.2	1.7 ✓
100' Lt	9.7	4.2 ✓
80' Lt	7.9	6.0 ✓
72' Lt	8.7	5.2 ✓
65' Lt	10.6	3.3 ✓
56' Rt	13.4	0.5 ✓
80' Rt	11.6	2.3 ✓
88.5' Rt = Fence	11.3	2.6 ✓
170 + 82		
90' Rt = Fence	6.2	7.7 ✓
68' Lt	10.4	3.5 ✓
75' Lt	7.8	6.1 ✓
82' Lt	7.7	6.2 ✓
100' Lt	9.6	4.3 ✓
164' Lt	12.3	1.6 ✓
167' Lt	16.1	-2.2 ✓
175' Lt	16.5	-2.6 ✓
171 + 90		
173' Lt	16.2	-2.3 ✓

13.87

164' Lt.	15.7	- 1.8 ^v
161' Lt.	11.6	2.3 ^v
100' Lt.	9.4	4.5 ^v
85' Lt.	7.4	6.5 ^v
76' Lt.	7.4	6.5 ^v
64' Lt.	10.5	3.4 ^v
60' Lt.	9.7	4.2 ^v
90.3 Rt = Fence	4.8	9.1 ^v
171+50		
91' Rt = Fence	3.1	10.8 ^v
70' Rt.	3.3	10.6 ^v
60' Rt.	4.1	9.8 ^v
57' Lt.	10.2	3.7 ^v
64' Lt.	11.2	2.7 ^v
72' Lt.	7.1	6.8 ^v
83' Lt.	6.8	7.1 ^v
100' Lt.	9.3	4.6 ^v
163' Lt.	11.4	2.5 ^v
170' Lt.	16.9	-3.0 ^v

172+00

13.87

20

165' Lt.	16.5	- 2.6 ^v
158' Lt.	11.3	2.6 ^v
100' Lt.	9.4	4.5 ^v
90' Lt.	8.4	5.5 ^v
80' Lt.	6.6	7.3 ^v
70' Lt.	7.0	6.9 ^v
64' Lt.	10.6	3.3 ^v
57' Lt.	10.4	3.5 ^v
67' Rt.	4.5	9.4 ^v
80' Rt.	3.3	10.6 ^v
84.3 Rt = Gas Main	3.1	10.8 ^v
92' Rt = Santa Fe Fence	2.8	11.1 ^v
107' Rt.	5.2	8.7 ^v
122' Rt.	4.4	9.5 ^v
130' Rt.	+0.6	13.3 ^v
135' Rt.	+1.8	12.1 ^v
139.5 Rt = West Rail Santa Fe	+2.75	11.12 ^v
144.2 Rt = East " " "	+3.02	10.85 ^v
172+50		
92.8 Rt = Fence	4.7	9.7 ^v

13.87

67' Rt.	5.6	8.3 ^v	
60' Lt.	10.0	3.9 ^v	
68' Lt.	8.0	5.9 ^v	Q
80' Lt.	7.7	6.2 ^v	
100' Lt.	9.7	4.2 ^v	
137' Lt.	11.2	2.7 ^v	
139' Lt.	16.1	-2.2	
173+00			
124' Lt.	17.1	-3.2 ^v	
118' Lt.	13.9	0.0 ^v	
115' Lt.	10.1	3.8 ^v	
88' Lt.	10.0	3.9 ^v	Q
78' Lt.	8.6	5.3 ^v	
60' Lt.	9.3	4.6 ^v	
80' Rt.	5.6	8.3 ^v	
86' Rt. = E. Gas Main			
93.7' Rt. = Fence	4.8	9.1 ^v	
173+50			
944' Rt. = Fence	4.4	9.5 ^v	
70' Rt.	5.1	8.8 ^v	

13.87

21

65' Lt.	9.9	4.0 ^v	
93' Lt.	11.5	2.4 ^v	Q
95' Lt.	14.9	-1.0 ^v	
101' Lt.	17.1	-3.2 ^v	
174+00			
92' Lt.	17.1	-3.2 ^v	
88' Lt.	15.8	-1.9 ^v	
87' Lt.	11.2	2.7 ^v	P
63' Lt.	10.4	3.5 ^v	
59' Lt.	9.7	4.2 ^v	
53' Rt.	4.3	9.6 ^v	
62' Rt.	2.4	11.5 ^v	
86' Rt. = E. Gas Main			
944' Rt. = Santa Fe Fence	14	12.5 ^v	/
110' Rt.	2.0	11.9 ^v	
123' Rt.	1.6	12.3 ^v	
132' Rt.	+2.6	11.3 ^v	
138' Rt.	+3.7	10.2 ^v	
142.5' Rt. = W. Rail Santa Fe	+4.77	9.10 ^v	
147.2' Rt. = E. " " "	+4.98	8.89 ^v	

	5.17	13.87 17.45 ✓	15.9	12.28 ✓
T.P.				
	174+50			
94.7' Rt. = Fence		2.7	14.7 ✓	
64' Rt.		4.0	13.4 ✓	
54' Rt.		6.3	11.1 ✓	P.
60' Lt.		13.5	3.9 ✓	
78' Lt.		14.8	2.6 ✓	
83' Lt.		20.7	-3.3 ✓	
	175+00			
78' Lt.		20.3	-2.9 ✓	
67' Lt.		10.6	6.8 ✓	
62' Lt.		10.4	7.0 ✓	A
54' Lt.		13.0	4.4 ✓	
52' Rt.		5.3	12.1 ✓	
62' Rt.		3.3	14.1 ✓	
87.5' Rt. = Gas Main				
94.7' Rt. = Fence		1.9	15.5 ✓	
	175+50			
95.1' Rt. = Fence		1.4	16.0 ✓	
62' Rt.		2.7	14.7 ✓	

	17.45		
57' Rt.		4.4	13.0 ✓
52' Lt.		12.3	5.1 ✓
59' Lt.		8.8	8.6 ✓
67' Lt.		9.2	8.2 ✓
69' Lt.		20.1	-2.7 ✓
cht. on B.M.		0.66	16.79 ✓
	115	17.96 ✓	16.81 ✓
	176+00		
70' Lt.		21.0	-3.0 ✓
63' Lt.		9.5	8.5 ✓
58' Lt.		9.6	8.4 ✓
55' Lt.		12.3	5.7 ✓
54' Rt.		3.8	14.2 ✓
70' Rt.		3.6	14.4 ✓
89.5' Rt. = Gas Main			
93' Rt.		1.4	16.6 ✓
94.8' Rt. = Santa Fe Fence		0.5	17.5 ✓
120' Rt.		0.3	17.7 ✓
127' Rt.		+1.4	16.6 ✓
135' Rt.		+1.1	16.9 ✓

17.96

142.7' Rt. = West Rail Santa Fe + 2.80 15.16 ✓

147.4' Rt. = East " " + 3.04 14.92 ✓

176+50

94.5' Rt. = Fence 0.3 17.7 ✓

93' Rt. 1.2 16.8 ✓

70' Rt. 3.3 14.7 ✓

55' Rt. 4.5 13.5 ✓

55' Lt. 8.0 10.0 ✓

62' Lt. 8.3 9.7 ✓

65' Lt. 21.0 -3.0 ✓

177+00

63' Lt. 21.0 -3.0 ✓

58' Lt. 9.9 7.1 ✓

52' Lt. 9.9 7.1 ✓

68' Rt. 2.4 15.6 ✓

87.3' Rt. = S. Gas Main

93' Rt. 1.0 17.0 ✓

94.8' Rt. = Fence 0.1 17.9 ✓

177+50

94.8' Rt. = Fence 0.2 17.8 ✓

π
17.96

23

93' Rt. 1.1 16.9 ✓

69' Rt. 2.1 15.9 ✓

56' Lt. 10.8 7.2 ✓

60' Lt. 21.0 -3.0 ✓

178+00

59' Lt. 21.0 -3.0 ✓

54' Lt. 10.1 7.9 ✓

63' Rt. 2.5 15.5 ✓

82' Rt. 2.5 15.5 ✓

87.5' Rt. = S. Gas Main

93' Rt. 1.5 16.5 ✓

94.5' Rt. = Santa Fe Fence 1.1 16.9 ✓

110' Rt. 2.4 15.6 ✓

120' Rt. 1.7 16.3 ✓

132' Rt. +2.7 15.3 ✓

139' Rt. +4.0 14.0 ✓

142' Rt. = W. Rail Santa Fe +4.88 13.08 ✓

146.7' Rt. = E. Rail Santa Fe +5.11 12.85 ✓

178+50

93.7' Rt. S.F. Fence 2.4 15.2 ✓

	17.96	178+50		
92' Rt		4.0	14.0 ✓	
63' "		4.2	13.8 ✓	∇
54' Lt.		21.0	-3.0 ✓	
	179+00			
60' Rt		5.8	12.2 ✓	
85' Rt = Gas Main				
92' Rt.		5.4	12.6 ✓	∇
93.7' Rt = Fence		4.6	13.4 ✓	
	179+50			
93.1' Rt = Fence		6.3	11.7 ✓	∇
92' Rt		6.9	11.1 ✓	
66' Rt.		7.5	10.5 ✓	
	180+00			
56' Rt		10.1	7.9 ✓	
70' Rt.		8.8	9.2 ✓	
83.5' Rt = Gas Main				
90' Rt.		8.1	9.9 ✓	
91.5' Rt = Fence		7.3	10.7 ✓	
111' Rt.		4.6	13.4 ✓	
129' Rt		+4.4	13.6 ✓	∇
135' Rt		+5.8	12.2 ✓	

	17.96			
138.5' Rt = W. Rail Santa Fe	+6.76	11.20 ✓		21
143.2' Rt = E. " " "	+7.02	10.94 ✓		
	180+50			
89.7' Rt = Fence	9.2	8.8 ✓		∇
75' Rt	9.5	8.5 ✓		
55' Rt.	10.6	7.4 ✓		
	181+00			
60' Rt.	11.0	7.0 ✓		
81.7' Rt = Gas Main	10.0	8.0 ✓		∇
88.7' Rt = Fence				
	181+50			
88.3' Rt = Fence	9.4	8.6 ✓		
68' Rt.	10.2	7.8 ✓		∇
	182+00			
88.5' Rt = Fence	-7.9	10.1 ✓		
102' Rt.	7.4	10.6 ✓		
124' Rt	+6.7	11.3 ✓		
130' Rt.	+7.9	10.1 ✓		
133.5' Rt = W. Rail Santa Fe	+8.89	9.07 ✓		
138.2' Rt = E. " " "	+9.10	8.86 ✓		

π

17.96

182+00 Cont.

88.1' Rt. = Fence 7.8 10.2 ✓

78' Rt. = Gas Main

60' Rt. 10.0 8.0 ✓

182+25

62' Rt. 8.6 9.4 ✓

87.8' Rt. = Fence 7.2 10.8 ✓

182+50

87.5' Rt. = Fence 7.3 10.7 ✓

70' Rt. 8.3 9.7 ✓

183+00

86' Rt. = Fence 8.1 9.9 ✓

74.5' Rt. = Gas Main 9.4 8.6 ✓

183+50

65' Rt. 10.1 7.9 ✓

69' Rt. 8.5 9.5 ✓

80' Rt. 7.8 10.2 ✓

83.2' Rt. = Fence 6.9 11.1 ✓

 π

17.96

T.P. 13.00 18.31 ✓ 12.65 5.31 ✓

T.P. 13.10 31.10 ✓ 0.31 18.00 ✓

T.P. 6.31 37.31 ✓ 0.10 31.00 ✓

25

H.I. + Rod
- Rod T.P.

~~6~~
24.7

F. Miller's Lesson
by Norris

150

180

HI
+ Rod BM

$\frac{31}{32}$ $\frac{27}{20}$ 12

$\frac{31}{90}$ $\frac{14}{200}$
 $\frac{14}{15.5}$ $\frac{57}{60}$ $\frac{27}{65}$

H.I.

H.I

Atlantic St. Borrow Pit
Cont. from Page 25

\$

Station + X - Elev.

185+95²⁰ E.C.

P. 10.5 ✓ 131 ✓ 12.9 ✓ 12.9 ✓ 21.6 ✓
26.8 24.2 24.4 24.4 15.7
56. 65. Pipe 71. 72.

185+50

P. 11.3 ✓ 14.1 ✓ 14.4 ✓ 19.8 ✓ 20.2 ✓
26.0 23.2 22.9 17.5 17.1
58. 65. 70. 72. Fence 75.8

185+15

P. 13.2 ✓ 15.8 ✓ 19.5 ✓ 19.7 ✓
24.1 21.5 17.4 17.6
64. 70. 71. 78.5

185+5.0

P. 17.4 ✓ 19.3 ✓ 19.6 ✓
19.9 18.0 17.7
66. 68. Pipe Fence

184+50

P. 17.1 ✓ 17.0 ✓ 18.0 ✓
20.2 20.3 19.3
65. 75. 78. Fence

184+00

P. 89 ✓ 10.0 ✓ 12.3 ✓ 12.2 ✓ 13.3 ✓
28.4 27.3 25.0 25.1 24.9
54. 62. 67. 75. Pipe 77. 78.5

184+00

Void 14.7 ✓ 14.7 ✓ 26.9 ✓ 28.5 ✓ 28.9 ✓ 29.1 ✓
22.6 23.3 23.1 22.9 22.9 21.8
70. 70. 71. 71. 72.5 72.5 71.2

37.31 = HZ from Page 25

lt.

37.31

Rt

188+50

10.8 ✓
 265 262 23.6 239 29.3 29.3 ✓
 55 62 67.0 70 73 75.5
 Gas P. Fence

188+00

11.0 ✓
 263 238 244 ✓
 56.0 61.5 70
 Gas P.

29.1 ✓
 29.1 ✓
 35.8 ✓
 31.3 ✓
 32.8 ✓
 82 82 15 60 45 36.7 36.4
 72 75 10.5 114 118 122.6 126.96
 Fence W.Rail E.Rail

187+50

11.3 ✓
 260 237 240 21.8 28.2 ✓
 58.0 66 70 73.0 75.0 ✓
 Gas P.

187+00

9.6 ✓
 277 23.9 242 24.4 24.2 ✓
 58.0 65.5 70 73.0 75 ✓
 Gas P.

186+50

11.0 ✓
 263 242 240 16.6 14.8 ✓
 57.0 65 69 71 75.5 ✓
 Gas P. Fence

185+75 E.G.

37.31

void

23.8 ✓
 27.2 ✓
 29.4 ✓
 30.5 ✓
 13.5 10.1 7.9 6.8 6.05 6.07
 76' 105' 112' 120' 122.6 122.96
 Fence W.Rail E.Rail

37.31

191+00

190+50

190+37.59=8C.LL

190+00

T.P. 9.38 ✓ 44.96 ✓ 17.3 35.58

189+50

189+00

37.31

P

12.2 ✓	14.1 ✓	14.2 ✓	28.0 ✓	28.0 ✓
32.8	30.9	30.8	17.0	17.0
58	67	71	73.0	75.0
Fence				

P

13.3 ✓	17.2 ✓	28.0 ✓
31.7	31.8	17.0
56	71	75.0
F		

P

13.5 ✓	14.1 ✓	27.5 ✓						
31.5	30.9	17.5	11.5	6.2	10.9	9.5	26.1	8.59
58	71	75	84	105	110	119.0	122.7	127.2
Fence								
W.R. 1 5. R. 1								

P

13.0 ✓	14.0 ✓	26.0 ✓
31.1	31.0	19.0
67	71.0	75.0
Fence		

✓
44.96

P

11.9 ✓	13.6 ✓	13.6 ✓	24.9 ✓	24.9 ✓
25.4	23.7	23.7	12.4	12.4
58	66	70	73	73
Fence				

P

11.0 ✓	11.3 ✓	13.1 ✓	12.7 ✓	28.5 ✓	28.3 ✓
26.8	26.0	24.2	24.6	9.0	9.0
54	62.0	66	69.0	73	75 F
Fence					

37.31

194+00

39.3 28.7 28.7 17.6 6.0 5.2 9.2 7.6 6.62 6.37
 86 86 89 91 120 124 132 136 140.3 145
 70.5 Pipe Fence W. Rail E. Rail

193+50

6.7 13.1 14.9 28.0 28.6
 38.3 31.9 30.1 17.0 16.4
 58 70 86 86 88
 Fence

193+00

6.6 14.9 14.9 24.0 24.6
 32.4 30.1 30.1 21.0 20.4
 59 77 83 83 85
 94.5 P Fence

192+50

11.9 13.9 25.0 26.6
 32.1 31.1 20.0 18.4
 62 77 78 82
 Fence

192+00

12.4 13.7 15.9 25.7
 32.6 31.3 31.1 19.3 19.3 10 39 9.8 7.29 7.14
 37.8 71 74 77 79 109 108 118 126.4 131.1
 64.5 P Fence Fence

191+50

11.2 13.9 27.0 27.0
 32.8 31.1 12.0 18.0
 59 73 74.0 75.0
 Fence

44.96

44.96

196+50

P

6.1	10.7	16.8	20.3
35.4	30.8	24.7	21.2
61.	72.	100.	115.5
			Fence

196+00

P

6.8	10.9	17.5	18.8	24.5
34.7	30.6	24.0	22.7	17.0
66.	76.	103.5	109.5	133
			139.	156.
			159.2	163.9
				E. Rail
				Fence

195+80

P

7.0	12.0	17.5	19.0
34.5	29.8	24.0	22.5
70.	77	96	107
			Fence

195+50

P

6.4	9.5	18.9	20.5
35.1	32.0	22.6	21.0
63	77	95	104.6
			Fence

TP

3.41

41.50

6.87

38.09

41.50

195+00

6.5	7.8	22.4	25.2	26.7
38.5	33.3	22.6	19.8	12.3
60	88	94	95	99
				Fence

194+50

P

6.7	18.8	18.4	26.5	26.7
38.3	26.2	26.6	18.5	18.3
66	86	91	92	95
				Fence

44.96

44.96

199+00

P

✓ 3.8	✓ 12.6	✓ 15.7	✓ 18.0	✓ 21.6
38.1	28.9	25.8	23.5	19.9
87.	107.	125.	140 APC	149.5

198+50

P

✓ 2.9	✓ 13.0	✓ 14.5	✓ 17.8	✓ 21.5
38.6	28.5	27.0	23.7	20.0
74.	95.	114.	120.	141.4 Fence

198+00

5.2	3.7	2.94	2.65
172.	179.	182.2	186.9
		W.Rail	E.Rail

198+00

P

✓ 2.9	✓ 8.1	✓ 16.2	✓ 18.8	✓ 23.2
38.6	33.4	25.3	22.7	18.3
66.	79.	110.	124.	134.5
		G.Pipe	Fence	142.

197+50

P

✓ 3.9	✓ 8.5	✓ 18.2	✓ 19.0	✓ 22.8
37.6	33	23.3	22.5	18.7
65	75	112	121	129.0
				Fence

197+00

P

✓ 4.5	✓ 9.5	✓ 18.0	✓ 23.0
37.0	32.0	23.5	18.5
65	76	114	127.3
		G.Pipe	Fence

✓
41.50✓
41.50

200+75

✓ 5.9	✓ 7.3	✓ 10.1	✓ 13.3	✓ 15.3	✓ 19.8
P 36.4	35.0	32.2	29.0	27.0	22.5
62.	87	110	120	135	177.4
					Fence

200+50

✓ 4.9	✓ 6.3	✓ 8.8	✓ 11.3	✓ 16.1	✓ 19.8
P 37.4	36.	33.5	31.0	27.2	22.5
62.	87	115	130	153.	173.6
					Fence

T.P. 3.71 42.34 ✓ 2.87 38.63 ✓

42.34

200+00

✓ 11.8	✓ 14.6	✓ 3.5	✓ 2.72	✓ 2.54
P 190.	201.	208.	211.	215.7
			W. Rail.	E. Rail

200+00

✓ 4.1	✓ 7.5	✓ 11.2	✓ 16.7	✓ 17.5	✓ 20.0
P 37.4	34.0	30.3	24.8	24.0	21.5
84.	100.	140.	150	155	165.4
				G. Pipe	Fence

199+50

✓ 3.0	✓ 6.7	✓ 10.7	✓ 12.5	✓ 22.0
P 38.5	34.8	30.8	28.0	19.5
86.	109.	112.	134.	158.
				Fence

41.50

H.I.

41.50

202+50

A

✓ 10.6	✓ 13.3	✓ 15.8	✓ 19.1	✓ 20.7	✓ 14.3	✓ 20.3
31.7	29.0	26.5	23.2	21.6	28.0	22.0
65.	100	119.	132	147.	160.	170.

←

202+50

P

✓ 25.3	✓ 28.0	12.0	5.1	3.9	3.11	3.11
17.0	14.3	242.	253.	259.	262.1	264.8
205.	218.2	G Pipe Fence		W. Rail C. Rail		

202+15

✓ 16.3	✓ 16.3
26.0	26.0
170.	Fence

202+15

✓ 5.1	✓ 2.3	✓ 1.9	✓ 4.0	✓ 4.1	✓ 6.0	✓ 7.3	✓ 13.1	✓ 15.6	✓ 18.8	✓ 22.6
47.4	44.7	44.2	38.3	38.2	36.3	35.0	29.2	26.7	23.8	19.7
50.	23.	14.	8	23.	50.	100	123	120	168.	

202+00

✓ 12.7	✓ 15.3	✓ 18.7	✓ 24.7	✓ 25.3
29.6	27.0	23.6	17.6	17.0
46.	126.	131.	195.	202.
G Pipe Fence				

201+50

D

✓ 12.3	✓ 18.3	✓ 23.5	✓ 25.9
30.0	24.0	18.8	16.4
100.	127.	172	190.5
Fence			

201+00

P

✓ 9.1	✓ 10.6	✓ 16.6	✓ 20.1	✓ 22.3
33.2	31.7	25.7	22.2	20.0
66.	100.	130.	173.	191.5
G Pipe Fence				

42.34

447

42.34

205+00

✓
 11.9 ✓
 30.4 24.5 26.4 24.8 21.7 17.0 9.3
 53. 26. 100. 136. 145. 200. 244.3

204+50

✓
 12.2 ✓
 30.1 26.4 22.8 20.0 15.2 7.7
 66. 100. 135. 141. 200. 244.3
 Fence.

204+00

✓
 2.5
 6.8 4.8 3.5 2.85 2.87
 280. 291. 300. 302.9 307.6
 W. Rail E. Rail

204+00

✓
 11.6 ✓
 30.7 26.5 19.8 14.4 9.0
 66. 100. 156. 200. 245. 253.1
 G. Pipe Fence

203+50

✓
 12.6 ✓
 29.7 27.0 20.1 16.1 11.7 10.7
 66. 100. 175. 200. 231. 238.8
 G. Pipe Fence

203+00

✓
 1.0 ✓
 35.3 31.0 31.0 25.0 22.0 18.0 12.7
 66. 75. 125. 148. 174. 200. 225.6
 Fence

42.34

42.34

207+00

T.P. 0.70 24.45 ✓ 12.63 23.75 ✓

T.P. 6.49 36.38 ✓ 12.45 29.89 ✓

206+50

206+00

205+58³⁴ E.C.

205+58³⁴ E.C.

42.34

P

3.3 ✓
27.7
11.5

0.4 ✓
24.8
72.

7.2 ✓
17.0
58

11.6 ✓
13.8
97.

18.6 ✓
5.8
120.

22.4 ✓
2.0
150.

24.45 ✓

P

6.3 ✓
36.0
60.

10.3 ✓
32.0
75.

15.6 ✓
25.7
105.

20.5 ✓
21.8
140.

26.2 ✓
16.1
200.

29.7 ✓
12.6
250.

P

9.3 ✓
33.0
60.

11.8 ✓
30.5
100.

20.6 ✓
21.7
150.

25.7 ✓
16.6
200.

30.0 ✓
12.3
250.

34.3 ✓
8.0
300.

P

13.5 ✓
28.8
64.

16.6 ✓
25.7
100.

19.1 ✓
23.2
120.

20.8 ✓
21.5
150.

25.9 ✓
14.4
200.

33.3 ✓
9.0
250.
& Pipe

P

35.6 ✓
6.7
304.
Fence

5.3 ✓
314.
314.

0.5 ✓
337.
337.

5.1 ✓
346.
346.

3.4 ✓
353.
353.

2.64 ✓
354.5
W.Rail

2.64 ✓
359.2
E.Rail

42.34

37

Book 1448

T.P. Hub 205+58³⁴ E.C.

5.77

6.80 = 6.80 Page 51.

208+00

✓	✓	✓
-3.8	1.4	2.6
16.4	11.2	10.0
156.	138.	100.

P

207+50

✓	✓	✓	✓
-4.2	13.0	-0.4	11.6
16.8	15.6	13.0	11.0
142.	137.	130.	100.

P

207+00

✓	✓	✓
-3.7	-0.7	0.2
16.3	13.3	12.4
131.	115.	100.

P

206+50

✓	✓	✓
-3.8	-2.0	-1.4
16.4	14.6	14.0
128.	120.	100.

P

206+21 } Equation
207+4082 = }

✓	✓
-3.6	-1.8
16.2	14.4
125.	112.

✓	✓	✓
7.1	8.3	12.0
5.5	4.3	0.0
40.	80.	100.

P

T.P.

0.78

12.57

12.66

11.79

24.45

12.57

Cross-section Area Bet. Atlantic St. & W. Line
 A.T. & S.F. R.R. R. of Way. All distances from Atlantic St.
 All sections taken to Right of R. For Sections to Left see
 H.L. - E 164

Page 48

6-10-33 A.M.
 Clear-warm
 A.L. Everitt - Notes
 R.E. Stearns -
 B.E. Morris - ch.

39

(Plotted 6-14-33-RES.)

169 P

4.5	4.4	4.6	4.6	4.3
93	93	92	52	95
0	40	64	69	83

+50 P

4.3	4.3	4.6	4.1	4.7
95	95	92	52	51
0	40	62	66	81

Fence

168 P

3.9	4.1	4.7	4.4	4.1
99	92	91	62	52
0	40	58	62	80

Fence

+50 P

3.7	3.9	4.1	4.4	4.4	4.4
99	104	92	73	64	64
0	40	52	56	70	80

Fence

167+34 P

3.5	3.5	5.5	6.7
100	103	83	71
0	42	44	80

Fence

13.8

B.M. # 10 2.32 13.78

S.W. Monument
 Morena Blvd.
 & Jellet St.
 E. 1. 11. 46

6-10-33

40

+ H.I. - Elev

+37 P

4.1						
97	91	84	37	35		
0	40	62	70	87		

+10 P

4.0						
98	82	86	84	37	33	27
0	28	40	65	69	80	82

170 P

4.2						
96	102	82	84	32	32	26
0	12	40	64	70	80	87

+90 P

4.3						
95	92	88	92	32	32	28
0	14	28	47	65	69	75

+80 P

4.4						
94	92	88	82	32	32	28
0	21	29	64	68	73	85

169+50 P

4.3						
95	92	86	42	32	32	28
0	40	64	67	72	84	

13.78

13.8

6-10-35

41

+ H.1 - Elev

171 P

4.4	4.5	4.8	9.2	9.2
11 ²	11 ³	11 ⁰	66	66
0	40	64	70	70

15.8

TP

11.21

15.81

9.13

4.60

N.W. Corner Hwy

Nat. Box #574 170475

+82 P

3.9	4.2	5.0	7.1	6.1	7.7
9 ²	9 ⁶	8 ⁸	6 ²	5 ²	6 ¹
0	40	62	67	77	90

+75 ✓ % Section

4.6	4.7	0.2	0.1	3.0	6.3
9 ²	9 ¹	13 ²	13 ²	10 ⁸	7 ⁵
0	23	23	47	81	89

+66 ✓ % Section

4.5	5.1	-0.4	1.1	5.7	9.8	5.3	4.5
9 ³	8 ²	14 ²	12 ¹	8 ¹	4 ²	8 ⁵	9 ²
0	24	24	53	56	79	80	89

+58 P

4.3	5.2	5.5	9.9	9.8	7.7
9 ⁵	8 ⁶	8 ³	3 ⁹	4 ²	6 ¹
0	40	63	70	80	89

170+50 P

3.8	5.1	5.9	10.1	10.7
10 ²	8 ²	7 ⁹	5 ²	3 ¹
0	40	63	72	87

13.78

13.8

6-10-33

42

+ H.L. - Elev

174 P

5.2				
106	101	93	95	3.3
0	40	68	78	93

+50 P

5.6				
102	92	88	65	60
0	40	74	77	93

173 P

5.1				
102	92	94	78	66
0	40	75	78	92

+50 P

5.0				
108	98	93	68	9.5
0	40	75	78	91

172 P

4.9				
102	105	102	53	51
0	40	73	76	90

171+50 P

3.6				
122	5.1	5.4	10.5	10.8
0	40	69	73	90

15.81

6-10-33

43

+ H.I. - Elev.

177 P

6.1	7.1	6.6	16.2	16.8
12 ²	11 ⁷	12 ³	26	2 ⁰
0	40	70	82	93

+50 P

5.8	6.5	5.9	15.8	16.6
13 ⁰	12 ³	12 ⁹	3 ²	2 ³
0	40	70	82	93

176 P

5.4	6.1	6.7	15.6	16.5
13 ¹	12 ⁷	12 ¹	3 ²	2 ³
0	40	71	82	93

+50 P

5.6	5.9	6.3	15.3	15.8
13 ²	12 ²	12 ⁵	3 ⁵	3 ²
0	40	69	81	93

TP 4.07 18.83 1.05 14.76

H.I. 18.8 ↑

175 P

5.4	6.7	6.3	15.0	15.8
9 ⁹	9 ¹	9 ⁵	0 ⁸	0 ²
0	40	67	81	93

174+50 P

15.81

5.5	6.4	6.6	14.1	14.7
13 ³	9 ⁴	7 ²	1 ²	1 ¹
0	40	67	78	93

~~15.8~~
~~15.8~~
~~15.8~~

6-10-33

44

+ H.I. - Elev

180 P

4.3	5.4	5.6	5.5	9.4	9.9
13 ²	12 ³	12 ¹	12 ²	8 ³	7 ⁸
0	24	50	72	81	89

+50 P

5.2	5.5	6.4	11.0	11.1
12 ⁵	12 ²	11 ³	6 ²	6 ⁶
0	40	70	81	89

179 P

5.7	6.5	7.3	12.7	12.7
12 ²	11 ²	10 ⁴	5 ²	5 ²
0	40	70	80	91

+50 P

5.6	6.8	8.2	14.2	14.0
12 ¹	10 ⁹	9 ⁵	3 ⁵	3 ¹
0	40	72	82	92

0.86 17.67

16.81

17.7

T.P.M. #11

2.03

16.80

El. 16.81

178 P

5.7	6.1	7.7	15.7	16.3
12 ¹	12 ⁷	11 ¹	3 ¹	2 ⁵
0	40	71	82	92

177+50 P

6.0	6.7	6.9	16.7	16.9
12 ⁹	12 ¹	11 ⁹	2 ¹	1 ¹
0	40	71	82	93

18.83

18.8

6-10-33

45

+ H.I. - Elev

B.M. #11

0.86

16.81

Elev
16.81

+50 P

1/2 Section

180140 P

17.67

3.9	3.7	5.6	5.5	8.5	8.7
138	142	121	122	92	90
0	17	24	57	73	88

3.7	4.8	6.7	6.9	6.7
142	122	110	88	90
0	40	75	77	89
177				
10				

Final Cross-Section of Park Borrow Pit
 Sta 200+25 to 207+00
 All Sections taken to Rt. of E. E=0

6-24-33
 Clear. warm
 A.L. Everitt Notes-X
 R.E. Stearns φ
 B.E. Morris φ

+50 P	10 ³² 0	92 38	102 42	54 46	38 100	25 140	26 157	12 174	+12 185	+110 204	+12 213	0.9
+15 P	10 ³³ 0	94 38	102 41	56 46	43 54	39 100	30 148	13 152	+18 184	+80 193	0.9	
202 P	10 ³⁵ 0	103 38	103 41	62 45	49 55	42 100	30 150	13 169	+56 179	+23 190	0.9	
+50 P	10 ³⁵ 0	103 38	112 41	76 45	57 58	49 100	36 138	13 164	+56 185	+12 192	0.9	
201 P	10 ³² 0	102 38	112 42	85 45	60 62	63 77	50 100	43 129	22 153	+27 165	+62 173	0.9
+75 P	10 ³⁴ 0	102 38	112 41	88 44	75 78	53 100	28 148	12 162	+29 168	+19 176	0.9	
+50 P	10 ³¹ 0	102 37	112 41	94 43	74 73	65 100	44 121	41 140	+34 161	+59 172	0.9	
200+25' P	10 ³¹ 0	110 37	119 41	101 43	95 75	73 100	38 129	15 146	+14 158			

3.82 13.72

10.10 S.M. #13
 P.I. 146

13.9

0.4

φ
0

B.M.

207 P 8.87 6.48

10 ⁵	11 ⁶	12 ⁵	10 ⁸	10 ⁷	7 ²	4 ²	1 ⁴	13 ⁴	16 ⁸
0	36	41	43	51	57	91	100	121	138

+50 P

10 ⁵	11 ⁶	12 ⁵	10 ⁵	6 ⁸	2 ²	1 ⁶	1 ⁷	19 ²	19 ⁸
0	36	42	44	77	87	117	149	182	190

206 P

10 ⁷	11 ⁶	12 ⁵	10 ⁵	8 ²	5 ⁰	4 ²	3 ³	2 ³	0 ⁵	13 ³	12 ²	18 ²	28 ²	29 ⁴
0	37	42	44	54	65	100	139	168	184	199	229	240	240	240

E.C. +58.34 P

10 ⁹	10 ⁹	11 ⁸	5 ⁶	5 ²	5 ¹	4 ²	3 ⁰	0 ⁰	16 ⁰	16 ²	17 ²	33 ¹	17 ²	0 ⁵
0	37	42	47	100	149	180	200	218	238	269	278	331	278	0 ⁵

205 P

11 ⁶	10 ⁹	11 ³	7 ⁰	6 ³	5 ⁸	4 ⁵	3 ³	0 ²	17 ¹	17 ³	18 ⁵	33 ⁴	18 ⁵	0 ⁵
0	37	42	46	100	145	200	219	234	255	273	0	282	282	0 ⁵

+50 P

11 ³	11 ²	11 ⁸	6 ³	6 ⁶	5 ⁸	4 ²	3 ⁵	4 ⁵	16 ⁰	17 ⁵	17 ⁵	32 ²	17 ⁵	0 ⁵
0	37	42	46	100	150	200	215	238	256	0	267	322	267	0 ⁵

TP 6.25 15.35 4.82 9.10

204 P

9 ⁹	9 ⁷	10 ⁵	4 ³	4 ²	3 ⁷	15 ⁴	33 ⁶	19 ²	19 ²	33 ⁸	33 ⁸	19 ²	33 ⁸	0 ⁵
0	38	42	47	100	197	225	244	0	252	338	338	252	338	0 ⁵

+50 P

10 ⁰	9 ⁸	10 ⁵	5 ²	4 ⁶	4 ⁴	2 ¹	11 ⁸	13 ³	11 ²	11 ⁸	11 ⁸	31 ²	11 ⁸	0 ⁵
0	38	41	47	100	144	195	210	220	229	0	236	312	236	0 ⁵

203 P

9 ⁹	10 ¹	10 ⁷	6 ³	4 ⁶	3 ⁰	3 ⁰	1 ⁴	1 ²	1 ²	26 ²	26 ²	29 ⁴	15 ⁵	0 ⁵
0	38	42	47	100	154	174	186	206	216	0	224	294	224	0 ⁵

13.92

13.9

K
0

6-26-33

49

Sta. + H.I. - Elev.

172+00

-4	-2	-2	-0	-1	4
12 ⁴	11 ²	9 ⁵	8 ⁴	6 ²	3 ²
184	170	167	163	96	40

P

+50

-4	-3	-0	-0	-1	4
12 ⁴	11 ⁸	9 ⁰	8 ⁸	6 ²	3 ²
188	175	166	140	105	40

P

171+00

-3	-2	-0	-0	-1	4
11 ⁹	11 ⁻	9 ²	8 ⁵	4 ³	3 ²
201	185	169	127	67	40

P

+82

-2	-0	3	4	5	4
10 ⁹	9 ⁻	5 ⁻	4 ⁻	2 ⁷	1 ⁸
176	167	165	140	102	75

P

+75

-2	-2	2	1	1	2
11 ⁻	10 ⁸	10 ⁵	9 ²	9 ²	9 ⁹
191	176	140	112	74	43

P

+66

-2	-2	2	1	1	2
11 ⁻	10 ⁸	10 ⁵	9 ²	9 ²	9 ⁹
191	176	140	112	74	43

P

TP 3.68 8.29 4.03 4.61

8.3

+58

-2	-0	3	5	5	4
11 ⁰	9 ³	4 ²	3 ⁴	3 ⁵	3 ⁵
183	166	162	132	102	81

P

+50

-2	-0	6	5	0	2
10 ⁹	9 ³	7 ⁰	8 ⁻	7 ⁰	6 ⁶
184	165	164	140	114	85

P

170+37

-0	0	0	1	2	4
9 ⁵	8 ²	8 ⁶	7 ⁻	6 ⁶	4 ³
174	155	140	102	63	40

P

8.64

8.6

6-26-33

51

Sta + H.I. - Elev

11.82	17.58	0.77	16.81
		4.36	5.76

B.M. # 11
 3/4" I.P. E.I. 16.81

+50

-4.8	-2.9	4.4	5.9	5.8
14.1	13.0	5.5	4.2	4.3
80	74	63	57	40

P

178

-4.7	-3.5	4.1	5.9	5.5
14.8	13.6	6.0	4.2	4.0
80	72	61	54	40

P

+50

-4.4	-3.8	4.3	5.4	5.5
14.5	13.2	5.8	4.2	4.6
80	73	61	52	40

P

177

-4.6	-4.1	4.4	4.9	5.4
14.2	14.2	6.1	4.2	4.2
86	78	68	40	40

P

10.12

10.1

P

Cross-Section of Slope after Slide Sta 189+37-190+68

Removal of muck back of cut slope.

+ H.L. - Elev

+68

2.73

5.10

+63

+50

+37⁵⁴ B.C.L.

+32

190+00

+70

+50

189+37

B.M. 12A

2.73

7.83

5.10

7-5-33
Clear-warm
A.L. Everitt - Notes
R.E. Stearns - Rod
B.E. Morris - Chain

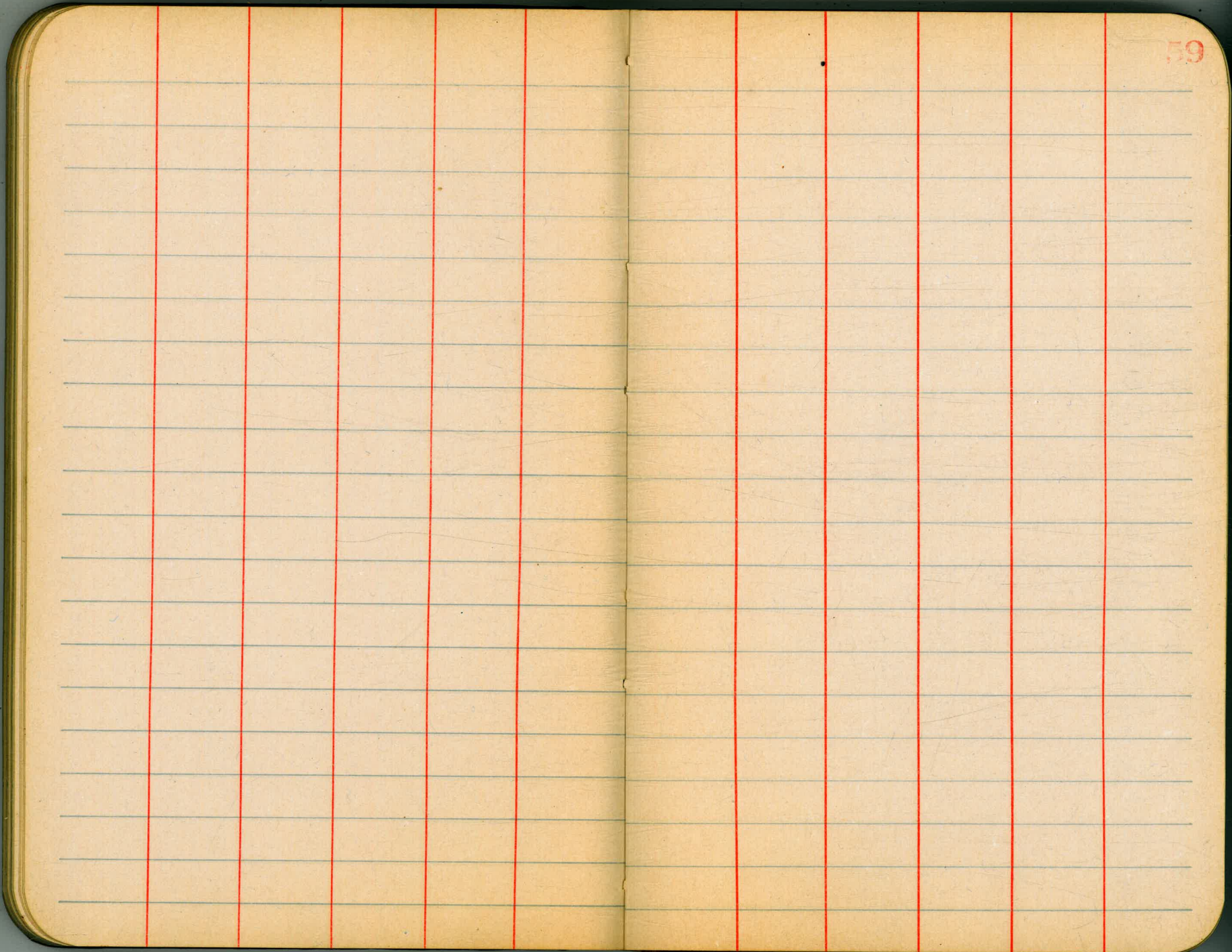
52

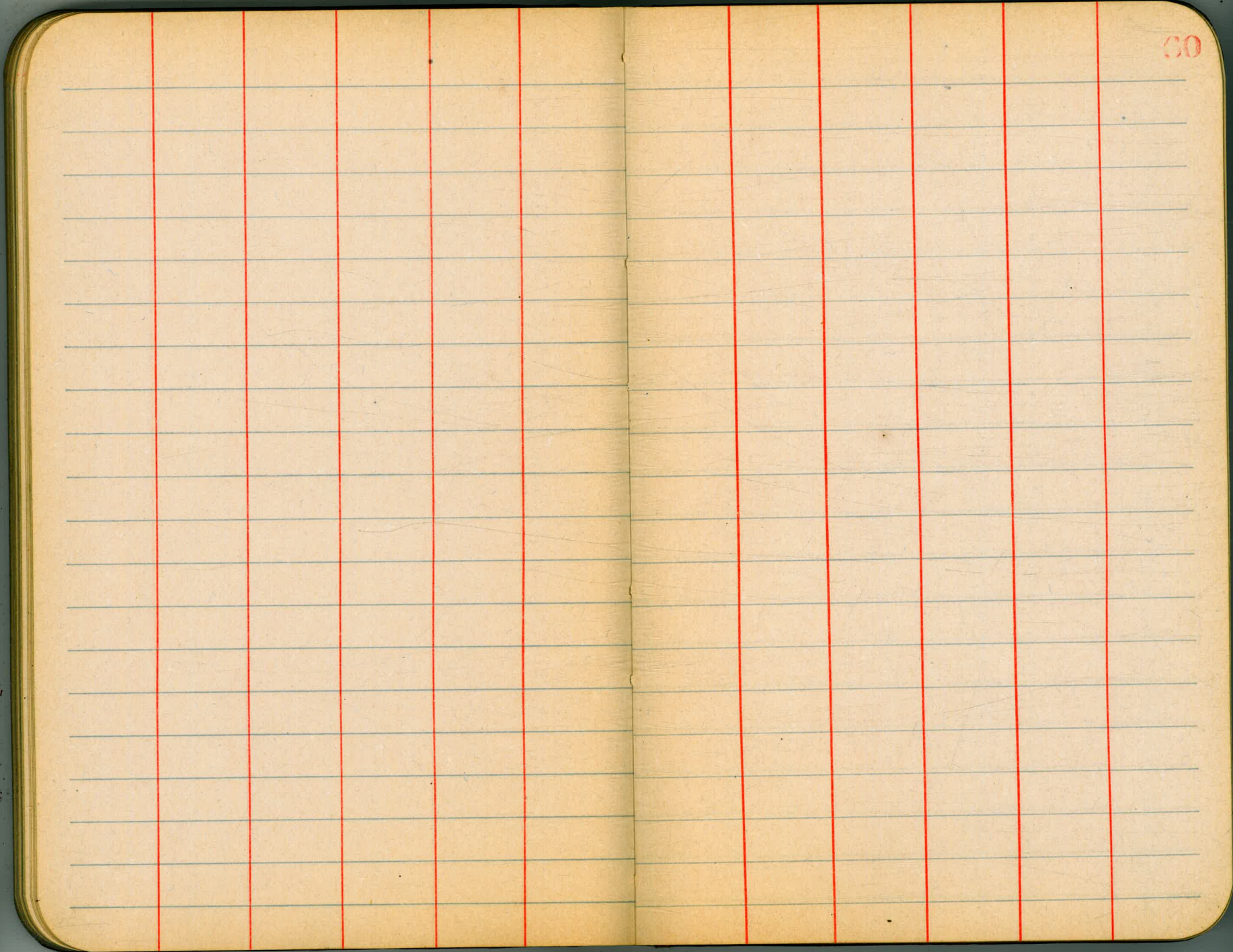
00 Section

43.3 ✓	43.1 ✓	68	124	123	78	21	5.7 ✓	7.8 ✓	13.3 ✓	15.5 ✓	7.2 ✓	P
26	28	29	41	44	46	51	56	70	10.10	14.8 ✓	17.0	P
43.4 ✓	43.6 ✓	5.9	8.2	12.5	12.6	10.2	2.1	13.1 ✓	14.8 ✓	17.0	10.10	P
16	27	29	30	41	44	48	62	70	14.8 ✓	17.0	10.10	P
43.3 ✓	43.5 ✓	4.4	3.8	7.2	12.3	12.2	7.2	3.2	4.1	1.2	1.2	P
21	26	31	31	42	46	48	55	64	13.2	15.2	16.2	P
43.4 ✓	43.3 ✓	4.2	4.2	5.2	6.2	2.2	2.2	5.5	5.4	1.2	1.2	P
24	29	33	41	47	55	67	71	71	14.4 ✓	16.6 ✓	12.5 ✓	P
43.4 ✓	43.4 ✓	6.1	3.9	3.2	7.1	13.1	1.3	1.3	1.3	1.2	1.2	P
40	44	56	61	67	71	71	71	71	14.4 ✓	16.6 ✓	12.5 ✓	P
43.5 ✓	43.8 ✓	6.2	6.2	13.0	13.9	13.1	13.9	16.1	14.8 ✓	17.0	10.10	P
41	44	61	68	72	72	72	72	72	14.8 ✓	17.0	10.10	P
43.4 ✓	43.2 ✓	5.2	3.3	6.6	11.9	13.9	13.9	16.1	14.8 ✓	17.0	10.10	P
41	44	56	63	67	67	67	67	67	14.8 ✓	17.0	10.10	P

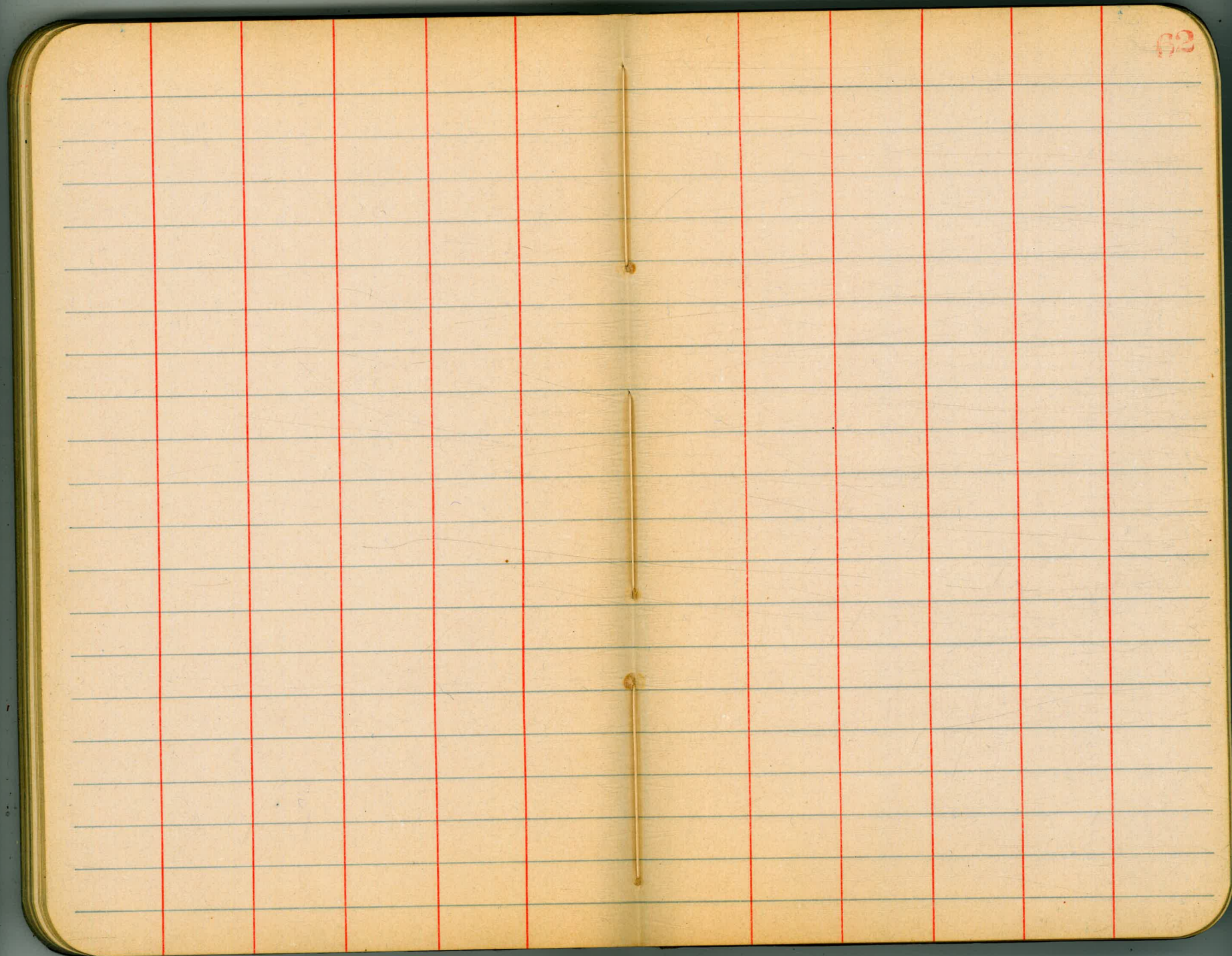
00 Section

7.8 H.L. ✓



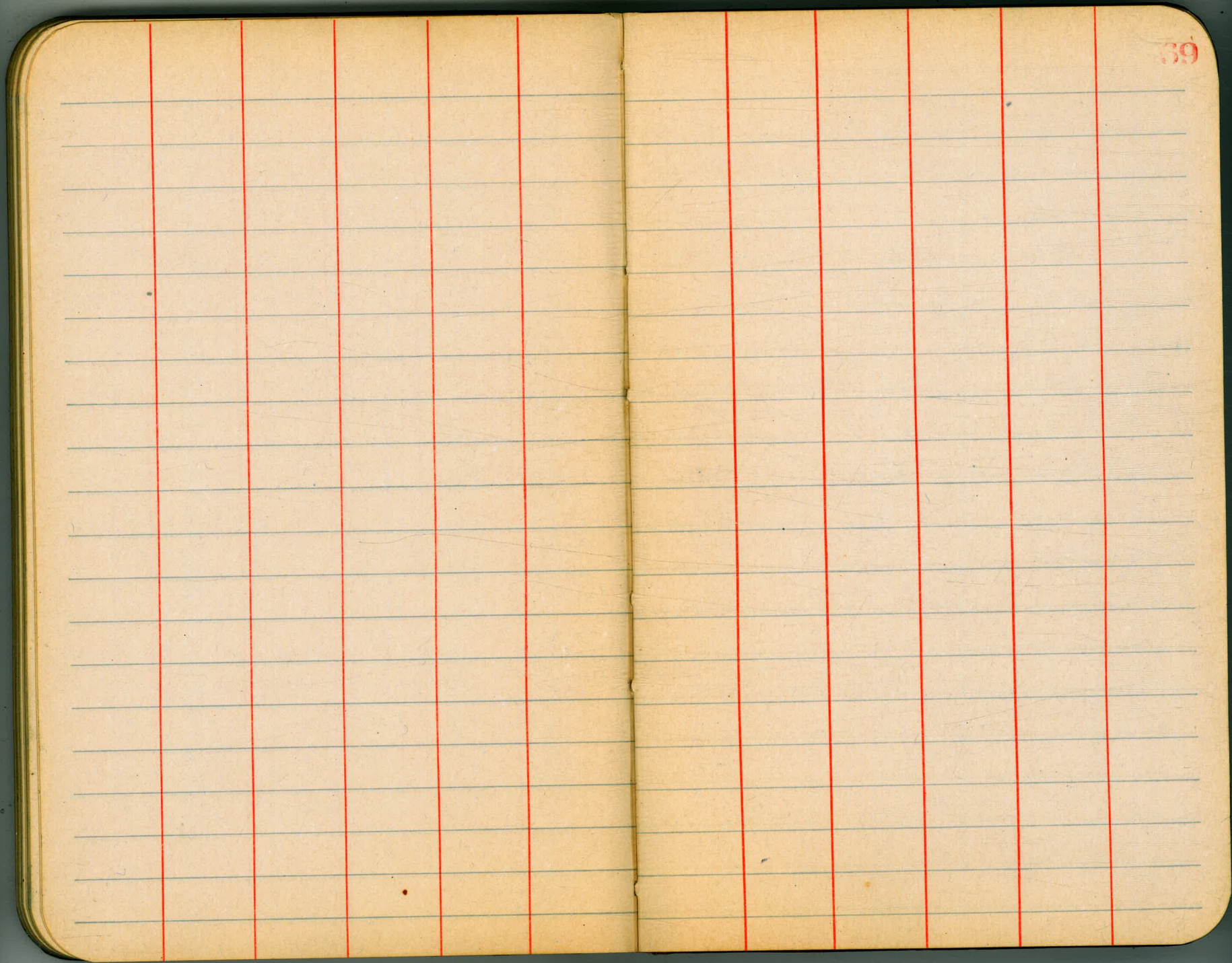


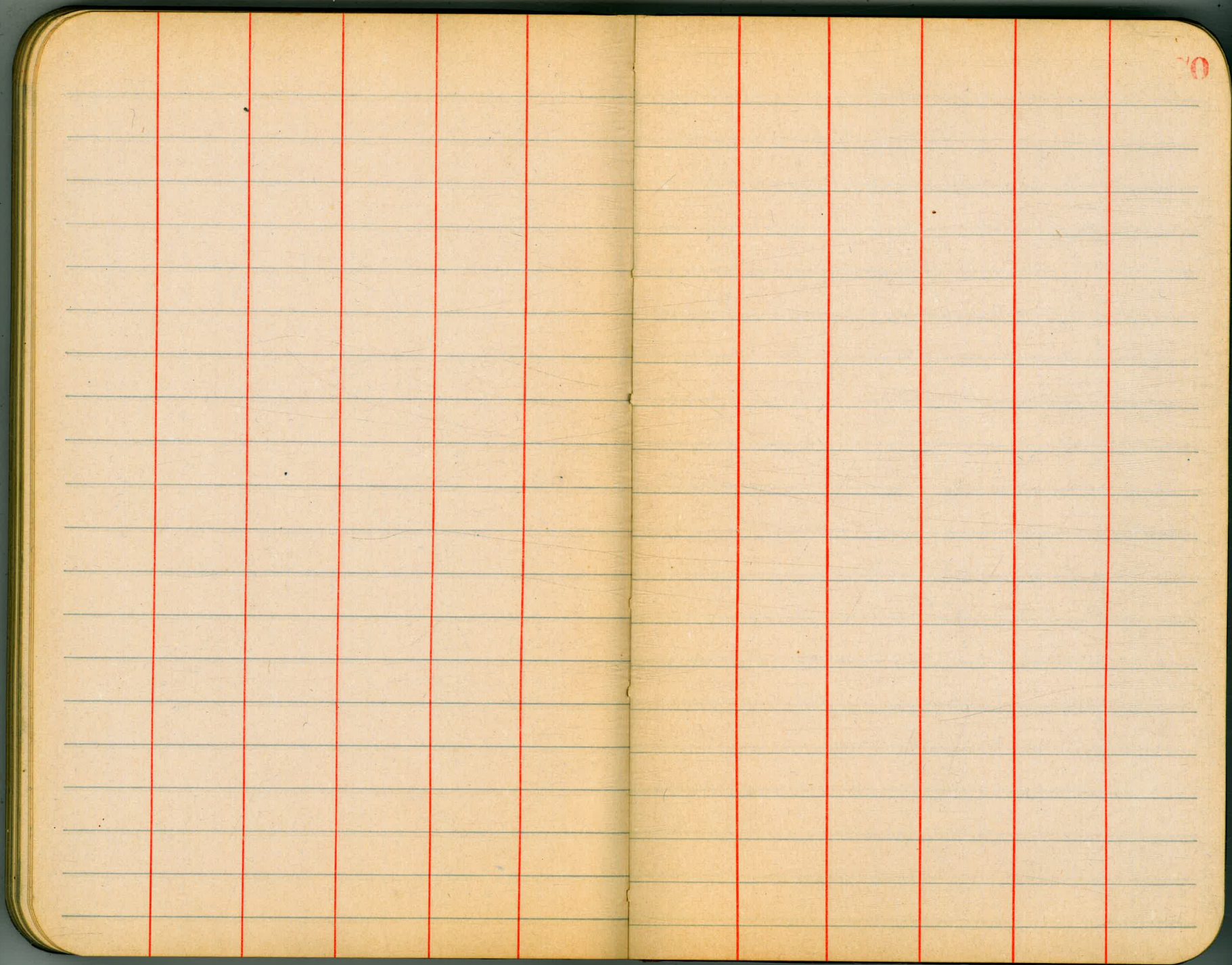
The image shows an open notebook with two facing pages. Both pages are cream-colored and feature horizontal blue ruling lines. Vertical red lines create margins on both sides of each page. The right page has the number '61' printed in red ink in its upper right corner. The pages are otherwise blank, with no handwriting or printed text.



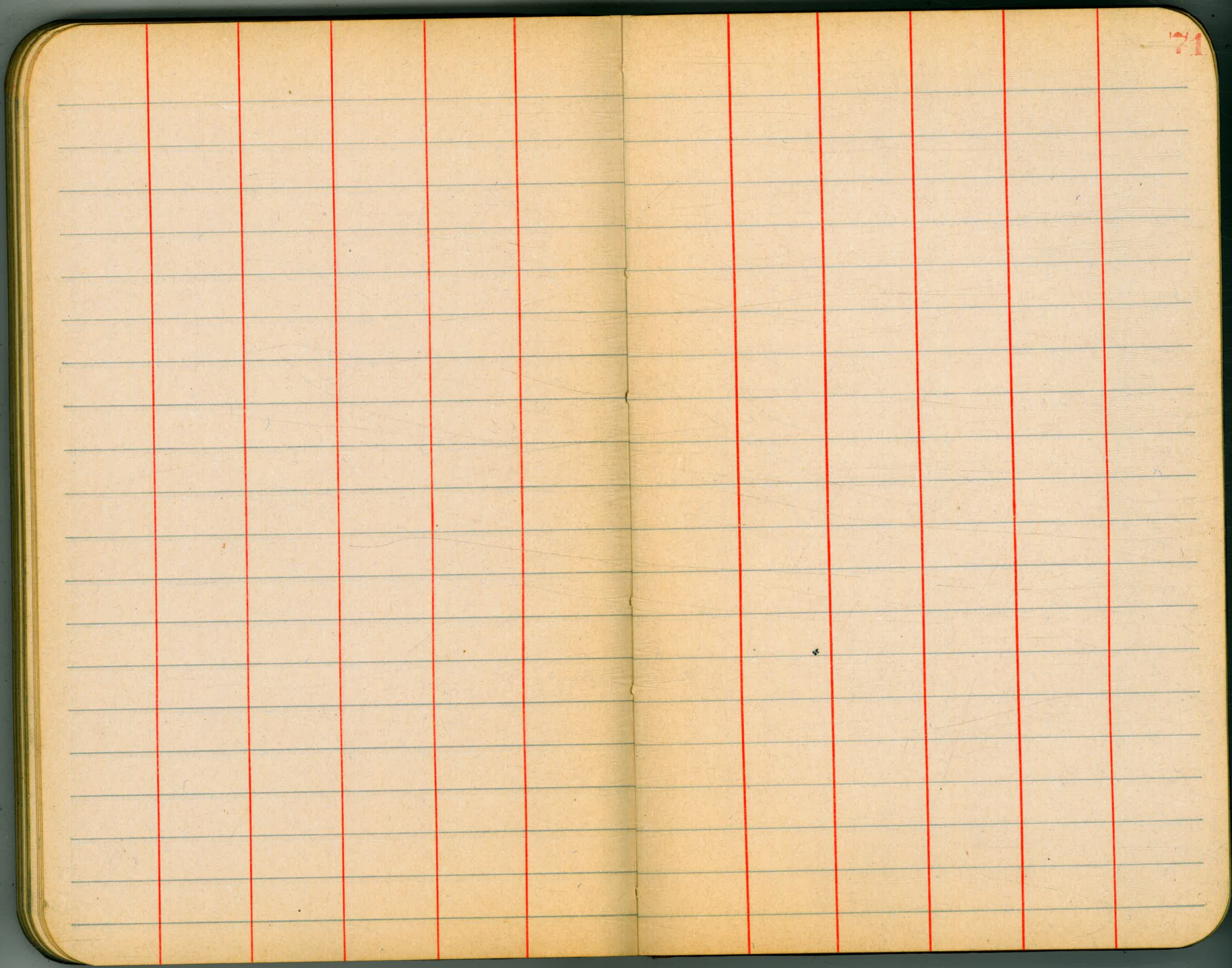
01

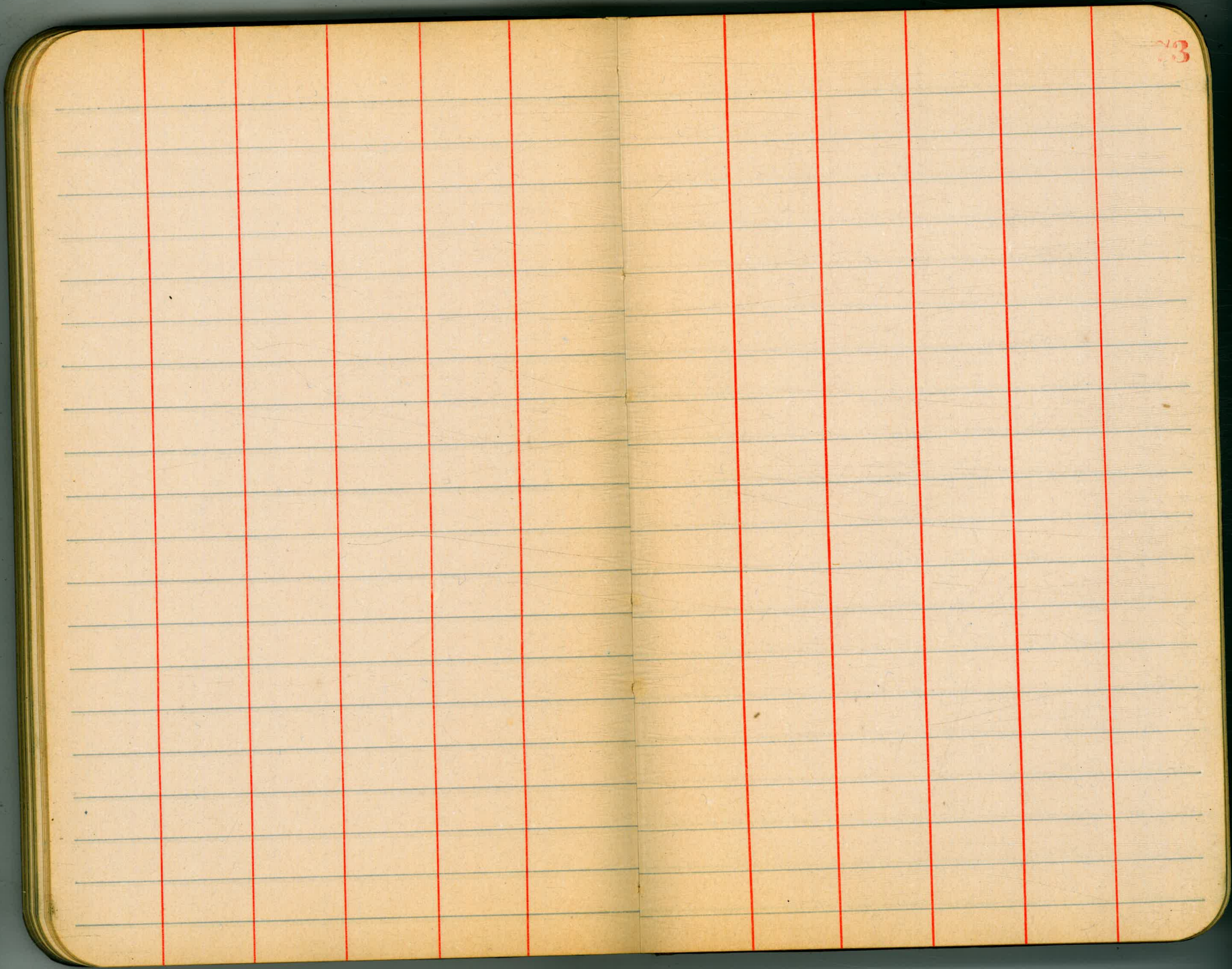
66

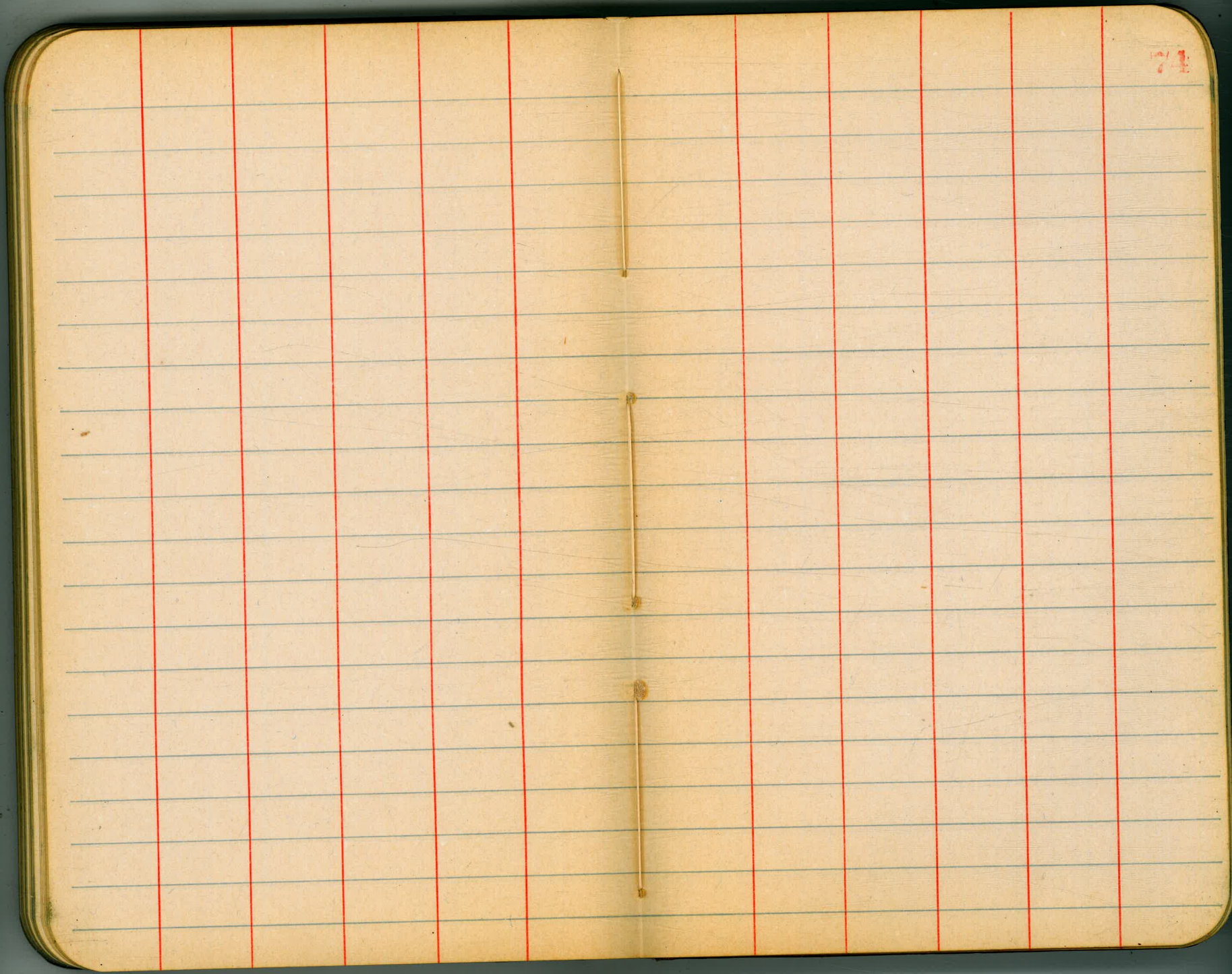


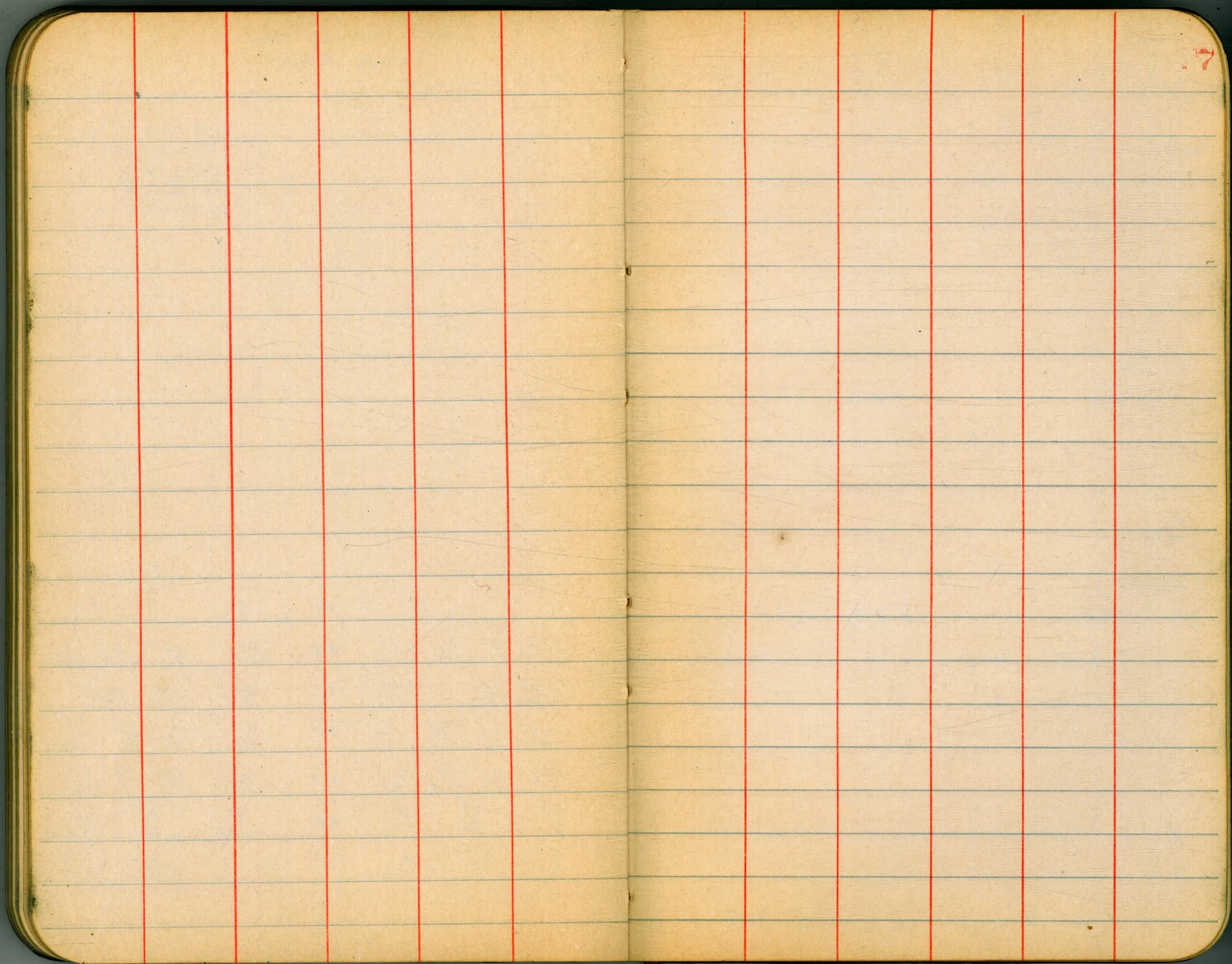


20









Miller
Walker
Bliss
3-13-33
Station +

Atlantic Street
Test Pits
And Bearing Pressure Pits
H.I. - Elev.

140+00

T.P. Head of Nail on Hub 2.77 - 2.66 # Hub
5.09 0.11 -4.98 144+00

160+75

Head of Nail
T.P. on Hub 5.56 - 0.73
2.72 4.83 2.11
Temp. BM
50" Ht. 2 on R.P. Hub
160+39.85

Page 13

183+00

T.P. on Hub 4.69 - 2.96
2.49 1.73 - 0.76
Temp. BM
on # Hub
185+95.90 = EG

201+00

T.P. on Hub 10.82 - 3.04

T.P. 1.96 7.78 4.87 5.82
0.59 10.69 10.10 # 13 on

B.M.

P.I. Hub Approx. Sta 197+50

Atlantic Street
 Test Pit
 And Bearing Pressure Pits

Stations +	H.I.	-	Elev.	
115+00 on Nail head on Hub.		3.28	0.01	
	5.32	3.29	-2.03	Elev. on Test Pit Hub at sta. 121+00 = Temp. B.M.
121+00 Nail on Hub		5.07	-2.03	
	3.24	3.04	-0.20	B.M. # 6 H. of stu 121+00 on Iron Nail
on Head Nail on Hub				
129+44		4.94	-2.41	
128+28 on Head of Nail on Hub.		4.76	-2.23	
	2.73	2.53	-0.20	B.M. # 6

86.00-132.00-200.00 Sta 160+34.85
 125.81 gauge.
 3-43

185.00 - 231.72 gauge 236.00 310.00 / 44+00

15.31 = B/lw.
 4.38 -
 10.93 = T.P.

Test Pit

- 121+00
- 128+33
- 129+44
- 140+00
- 160+75
- 183+00
- 205+00

Bearing Pressure Test

- 115+00 = level this point 7.00w
- 128+28
- 140+00
- 183+00
- 205+00

75 185 236 159.7
 65 32 74 47
 45 13.72 310 163.9
 155 231.72 459 162
 11.56
 232
 13.72

117 = Force
 DISTANCES FROM CENTER OF ROADWAY FOR CROSS-SECTIONING.
 ROADWAY 14 FEET WIDE. SIDE SLOPES 1½ 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.