

W #2
564-B

DIETZGEN

FIELD BOOK

#2

No. 403 P

MICROFILMED

JAN 13 1965

564-B

14.11

13.40

667

667

262

1.71

9.01

9.01

4.05

5.26

5.10

4.39

14.11

667

9.01

163

4.05

5.10

5.04

.34

9.83

11.515

7.99

9.01

1.84

2.505

1.84

.665

Index

Pages

1- B.M. Found By E.F. Messersmith

2- B.M. Obtained From the
Marine Corps. 12/6/41

B.M.'s on County Road From
Santee to Grantville.

U.S.B.M. on Power Pole S.W. Cor. of Road
1.0 Mile West of Santee. Elev. 337.3

U.S.B.M. on N.W. end of Bridge. 1.8 Miles West
of Santee. Elev. 329.4 Bridge #3/H.C. 20.1

U.S.B.M. on North side of County Road. on top
of head wall of Stone and Concrete Cul-
vert; Chiseled Square, Marked "U.S. 310.6 B.M."
Elev. - 310.6 West 3.0 Miles From Santee

U.S.B.M. on North Side of county Road. On top
of headwall of Stone and Concrete Cul-
vert; Chiseled Square, Marked "U.S. 299.6 B.M."
Elev. - 299.6 West 4.7 Miles West of Santee

U.S.B.M. R.R. Spike in Power Pole on East
side of County Road. Pole # 79284
B.M. Elev. = 116.3 R.K. Barker Drive way
is 0.2 Mile Northeast of B.M. on County
Road.

Bench Marks Obtained from The Marine Corps 12/9/41

Santee, 2 Miles West of 37 Ft. South of E. of Highway 200 Ft. West of Forks of Road South to Lecky Ranch, about 1000 Ft. S.W. of Lecky Ranch, 21 Ft. East of Private Road to Ranch of M.R. Robbins in Concrete Post, P.B.M. 326.599, etc.

Santee, 4 Miles West of 29 Ft. South of E. of Highway at tip of Grades 1st North of Fence 21 Ft. East of Private Road to Ranch house at East Albrecht, 17 Ft. East of Concrete Post, U.S.C. & G.S. Standard Post Stamped X 321-1935, Telephone Pole, Marked 421.5325 P.B.M. (Not Levelled to C.R.S.) 337.492 c.l.c.

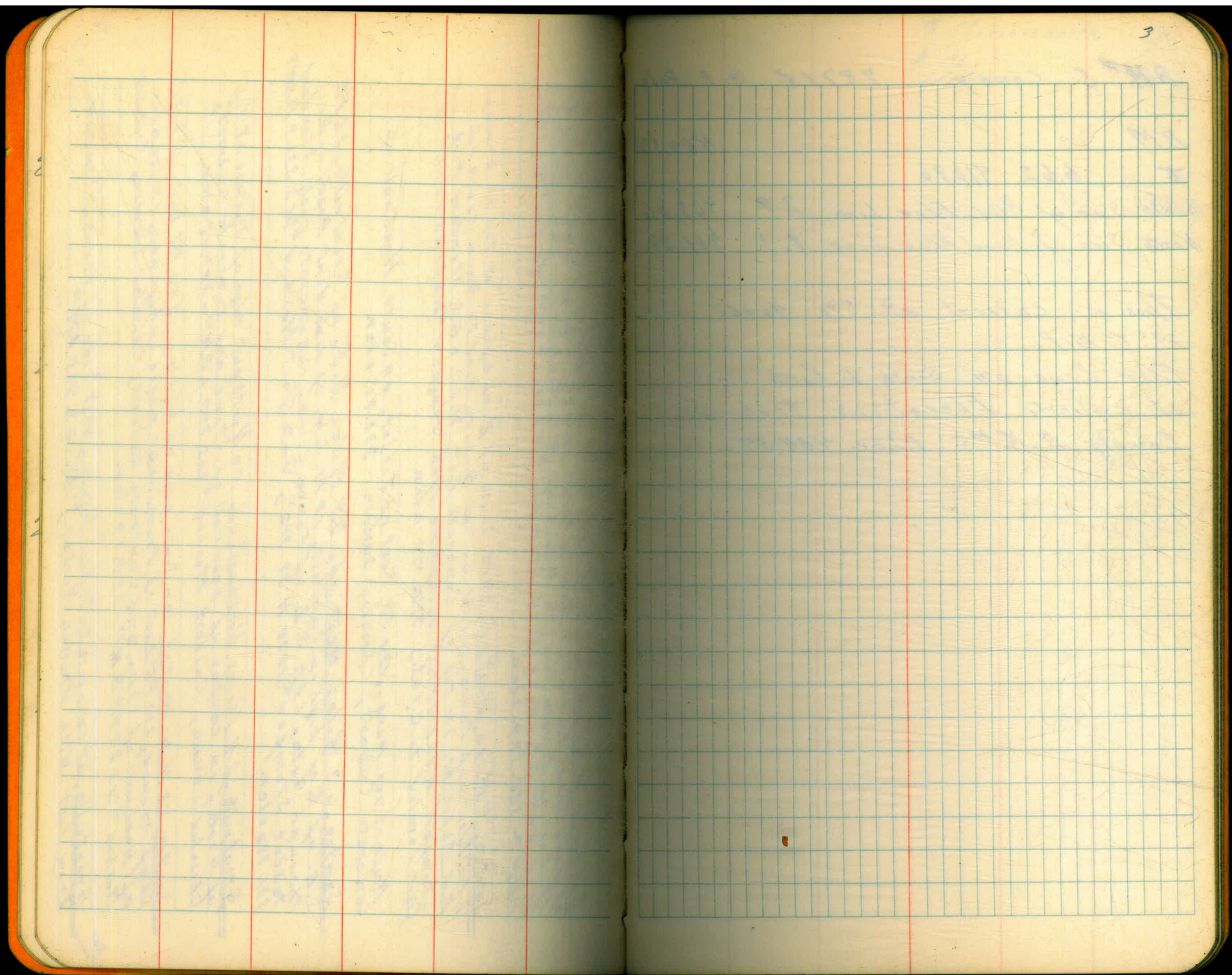
Reference Mark, 199 Ft. East of Toplatz on South Headwall of Concrete Culvert, Chiseled Sandstone - 333.46 c.l.c.

Santee, 6.3 Miles West of 3.4 Miles N.E. of Grantville, 26 Ft. S.E. of E. of Highway, 19 Ft. S.W. of dirt Road, S.E. through Gates 1st. S.E. of Fence Line, 14 Concrete Post Standard Tablet Stamped 1938 H 59 312, Post Marked 291.531.9 P.B.M. 334.888 etc.

Grantville, 2.4 Miles Northeast of On North West edge of highway at top of Grade, in center of head wall of Stone and Concrete Culvert, Chiseled Sandstone, Culvert Marked "E.S. 339.1 B.M." - 339.15 c.l.c.

Santee, 5.3 Miles West of on South edge of highway, 150 Ft. West of Public Camp Ground, 200 Ft. East of prominent angle in highway in center of head wall of Stone and Concrete Culvert, Chiseled Sandstone, Culvert Marked 245.258.9 B.M. - 258.89 c.l.c.

Grantville, at entrance to School house, West Side of Ranch, Standard Iron Post with Bronze Marker, P.B.M. 425.425 B.M. 22



B.M. # 5 County 78715 G. E. Pole

B.M. 404.34

π 6.62 410.96

South Side of Road Flow Line 7.9 403.06

North Side of Road Flow Line 9.1 401.86

This is culvert at Sta 46+68

24" C.M.P.

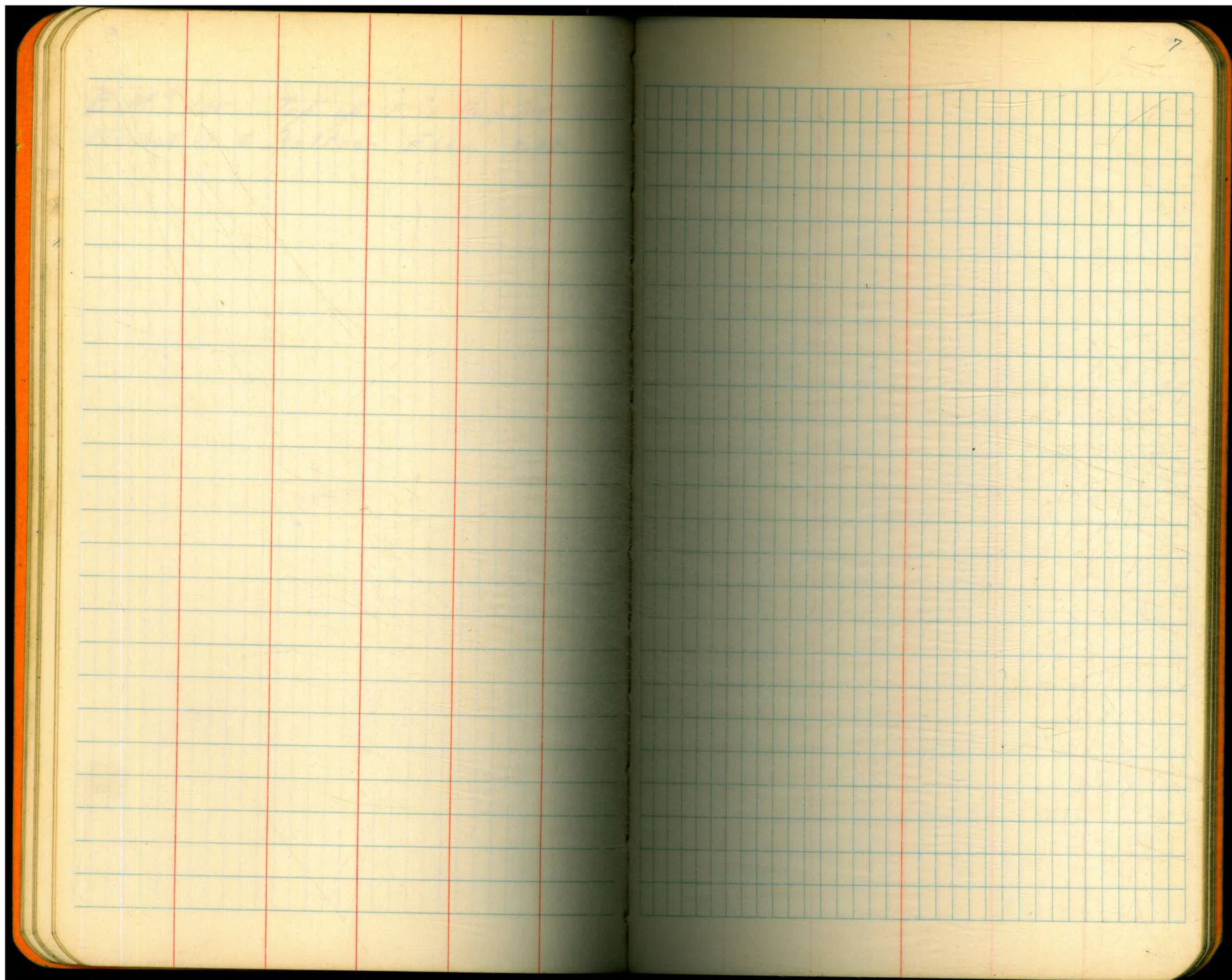
Flow Line on South & North ends
of culvert. Elevations took off
County B.M. #5 Elev. 404.34

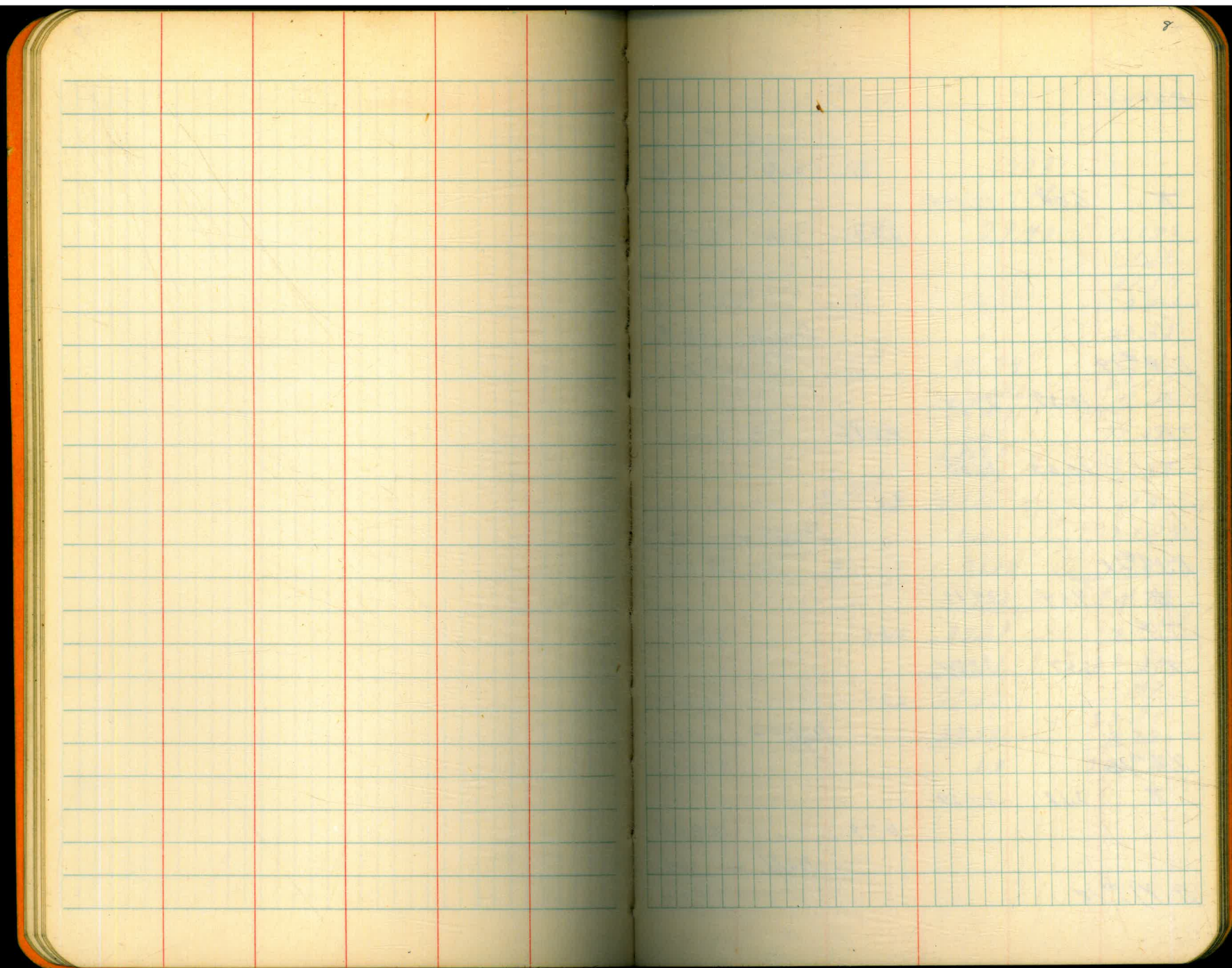
π Messersmith 4.

ϕ AL.

1/13/42

B.M. # 105 Top of Fire Pig. N.E. Cor. of
Market St. & Gettner Elev. 3.98





B.M.#24

19/65

- 9.01

city 8.155

π 6.04 14.195

6.47 city 9.725

9.01

16.735

Diff + .085

16.820

B.M.#19

π 10.32 27.14

T.P. 3.51 23.63

π 10.62 34.25

4.64 29.61

Diff - .13

29.48

B.M.#21

π 4.64 34.12

T.P. 5.85 28.27

π 5.47 33.74

2.77 30.97

Diff + .22

31.17

B.M.#16

π 3.12 34.29

4.79 29.50

Diff - .18

29.32

16.82 #19

10.32

27.14 π 34.42

3.51 4.79

23.63 T.P. 29.43

10.62 16.82

34.25 π 27.14

3.85 3.51

28.40 T.P. 33.74 10.62

5.47 3.10 34.25

33.87 π 30.64 4.64

2.77 9.01 29.61

31.10 B.M.#16 30.92 29.48

3.12 2.0 1.3

34.22 π 31.17 29.48

3.12 34.12

34.29 5.85

4.79 28.27

29.50 5.47

29.32 33.74

.18 2.77

30.97

B.M #18 29.32

⌘ 4.79 34.11

T.P 12.32 21.79

⌘ 0.26 22.05

6.27 15.78

- .01

B.M #14 15.77

34.22 ⌘

12.32

21.90 T.P

0.26

22.16 ⌘

5.36

16.80 T.P

4.96

21.76 ⌘

4.95

16.81 B.M #19

⌘ 34.22

29.32

4.79

22.16

6.27

15.89

22

12

34.11

12.32

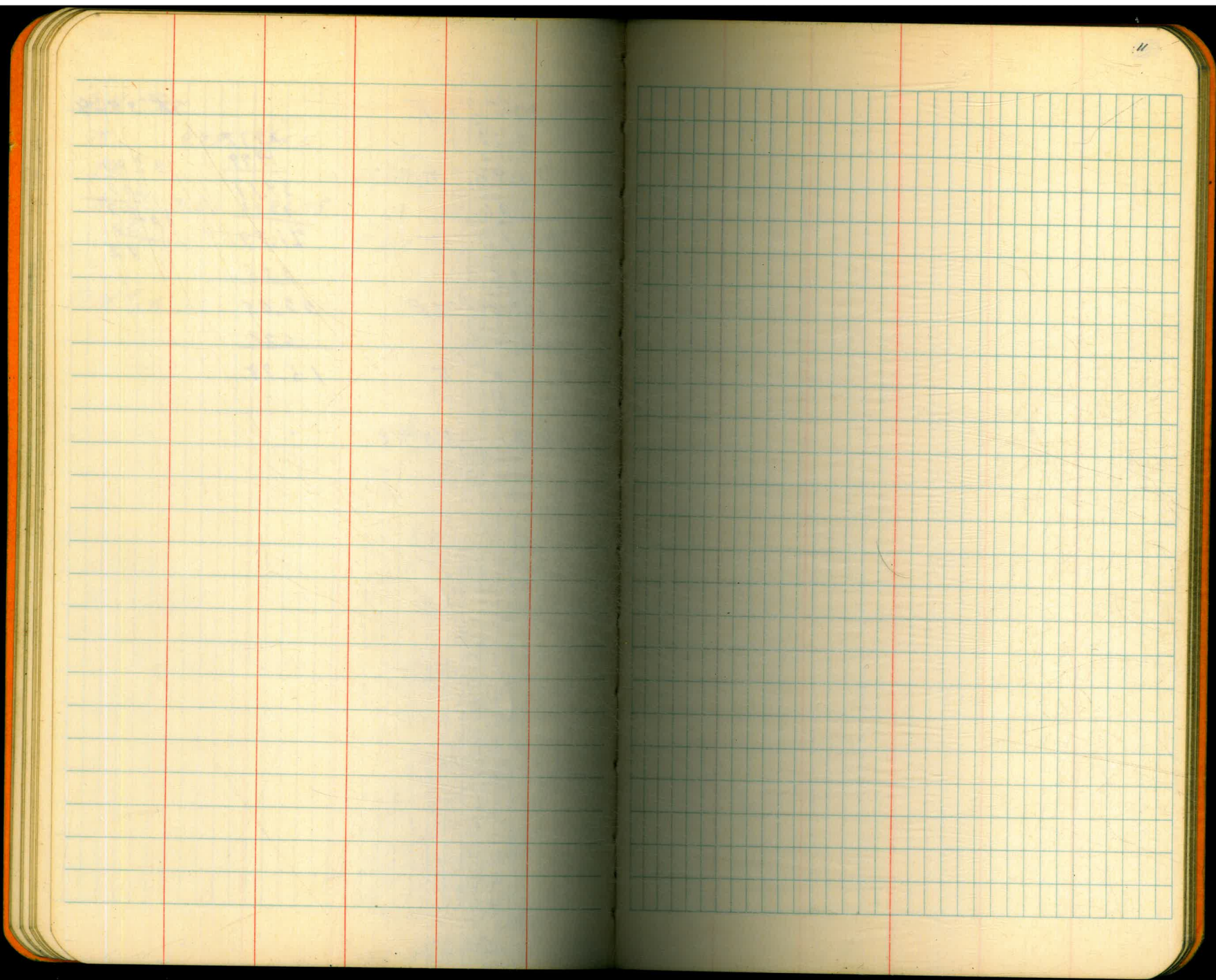
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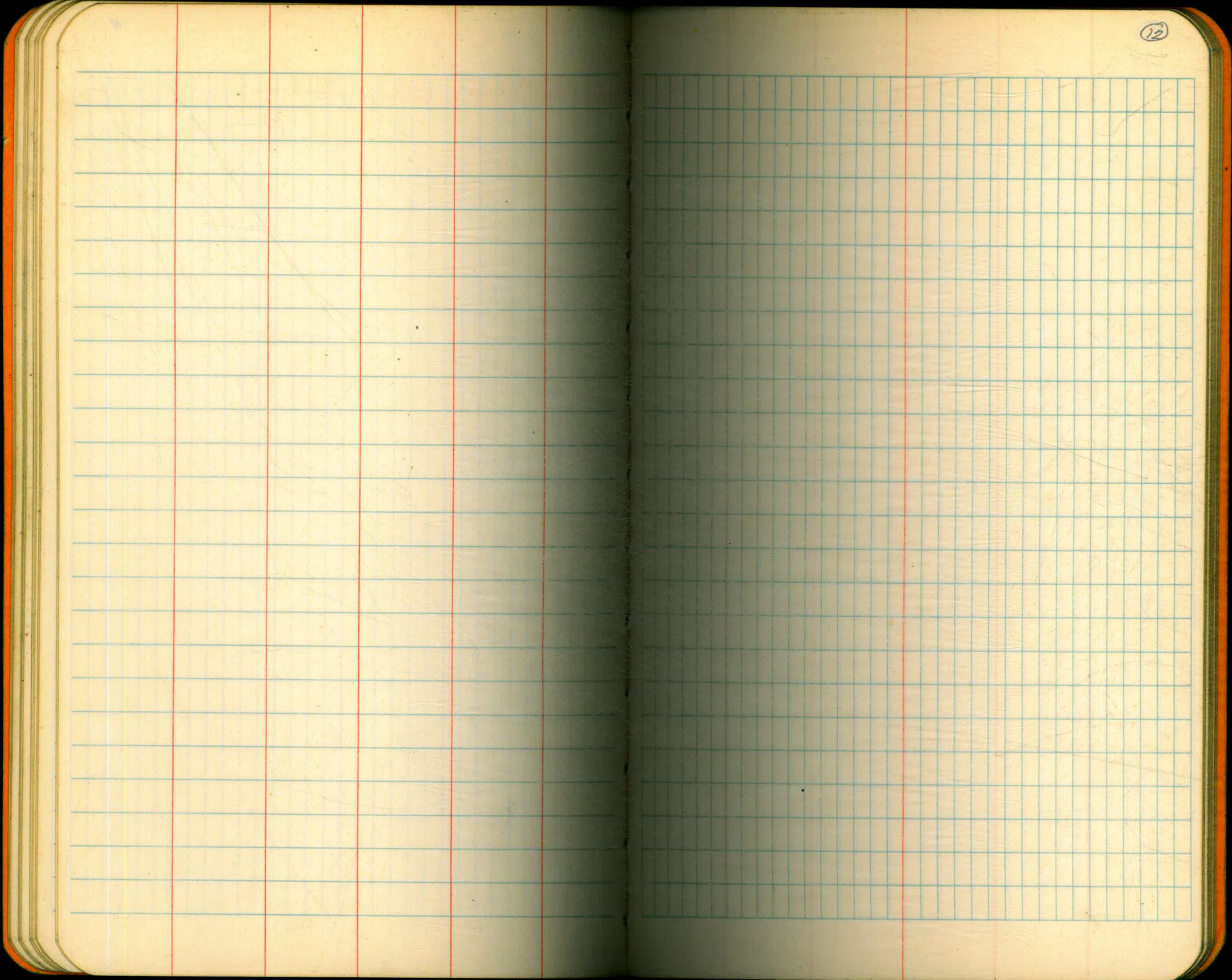
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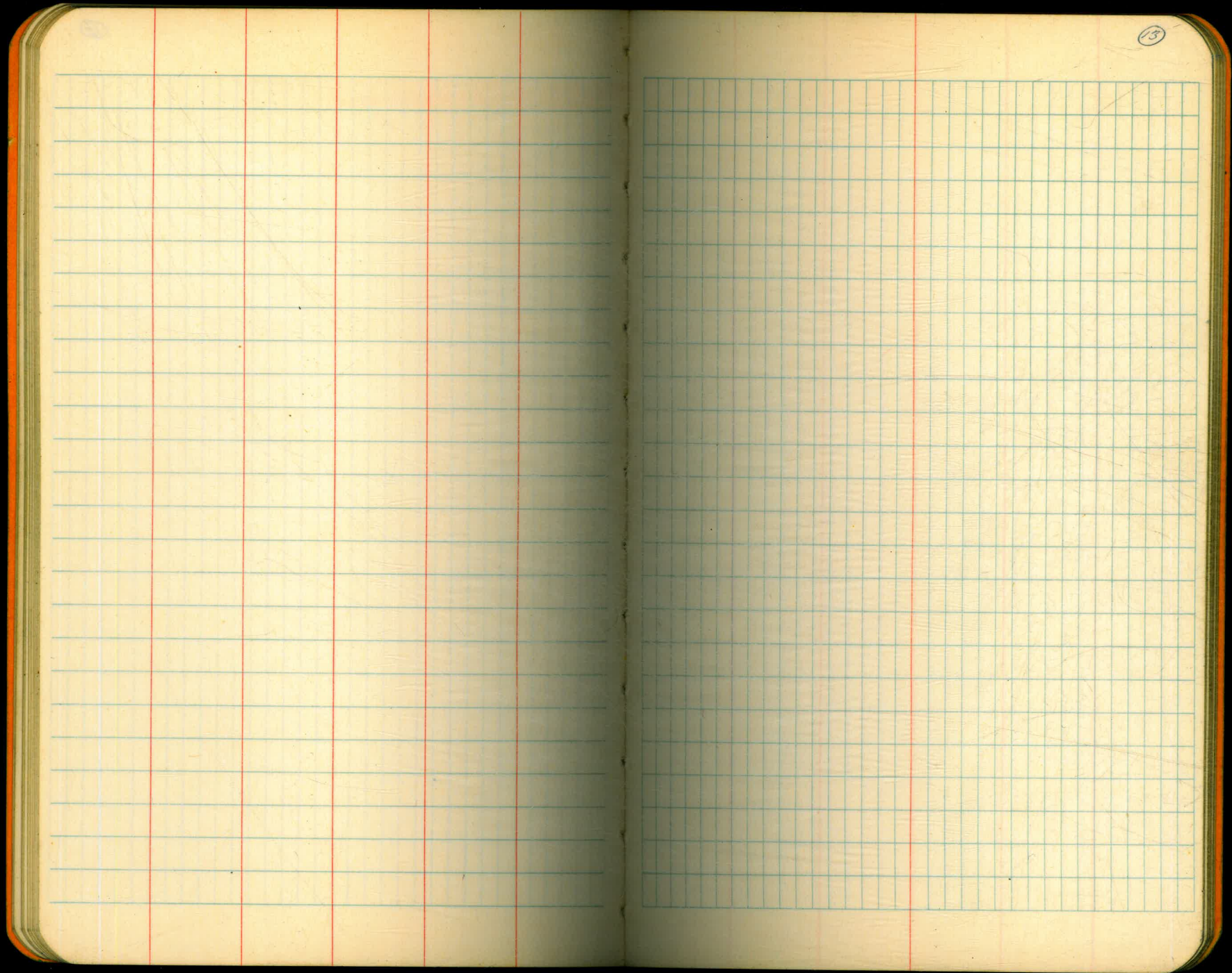
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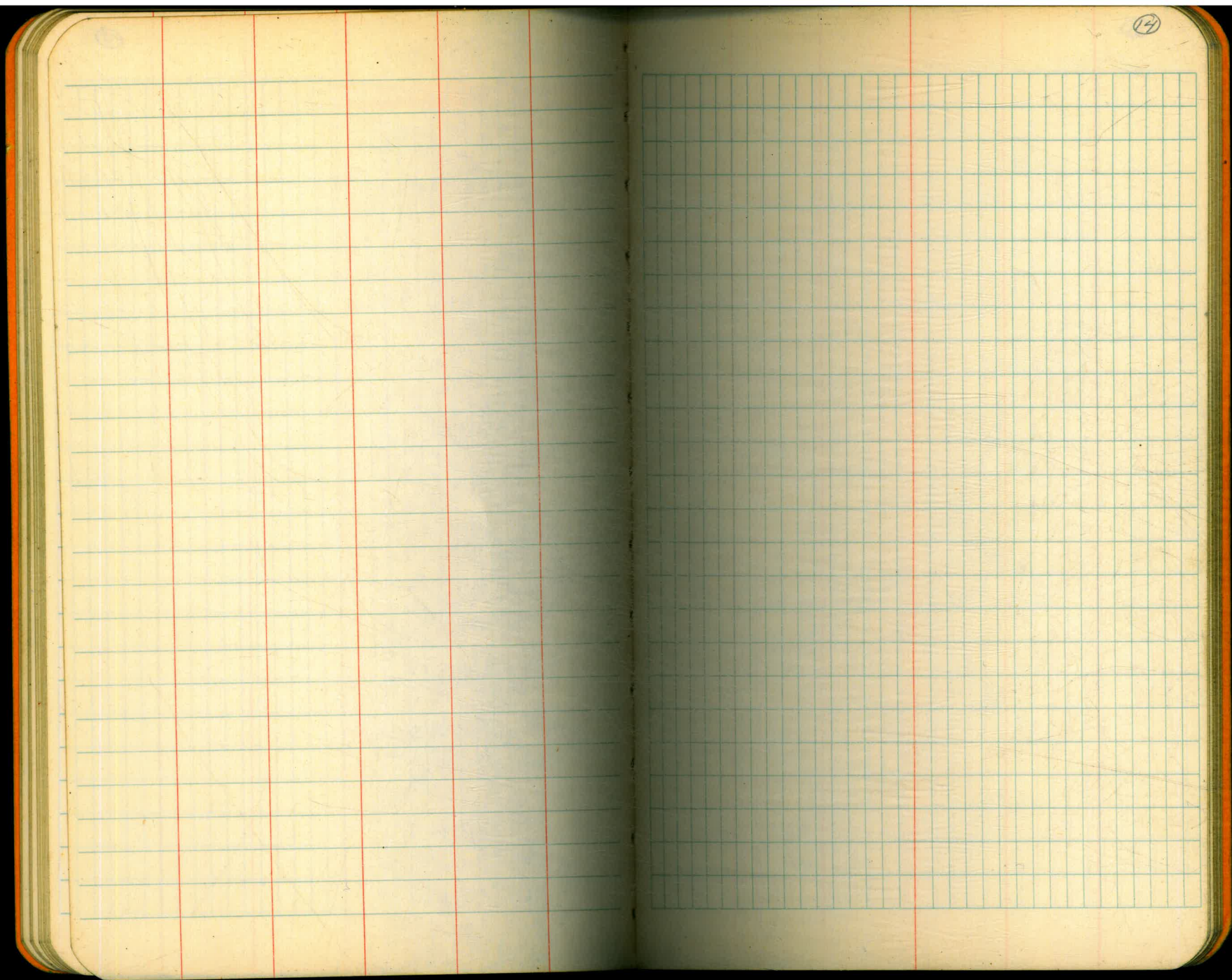
6.27

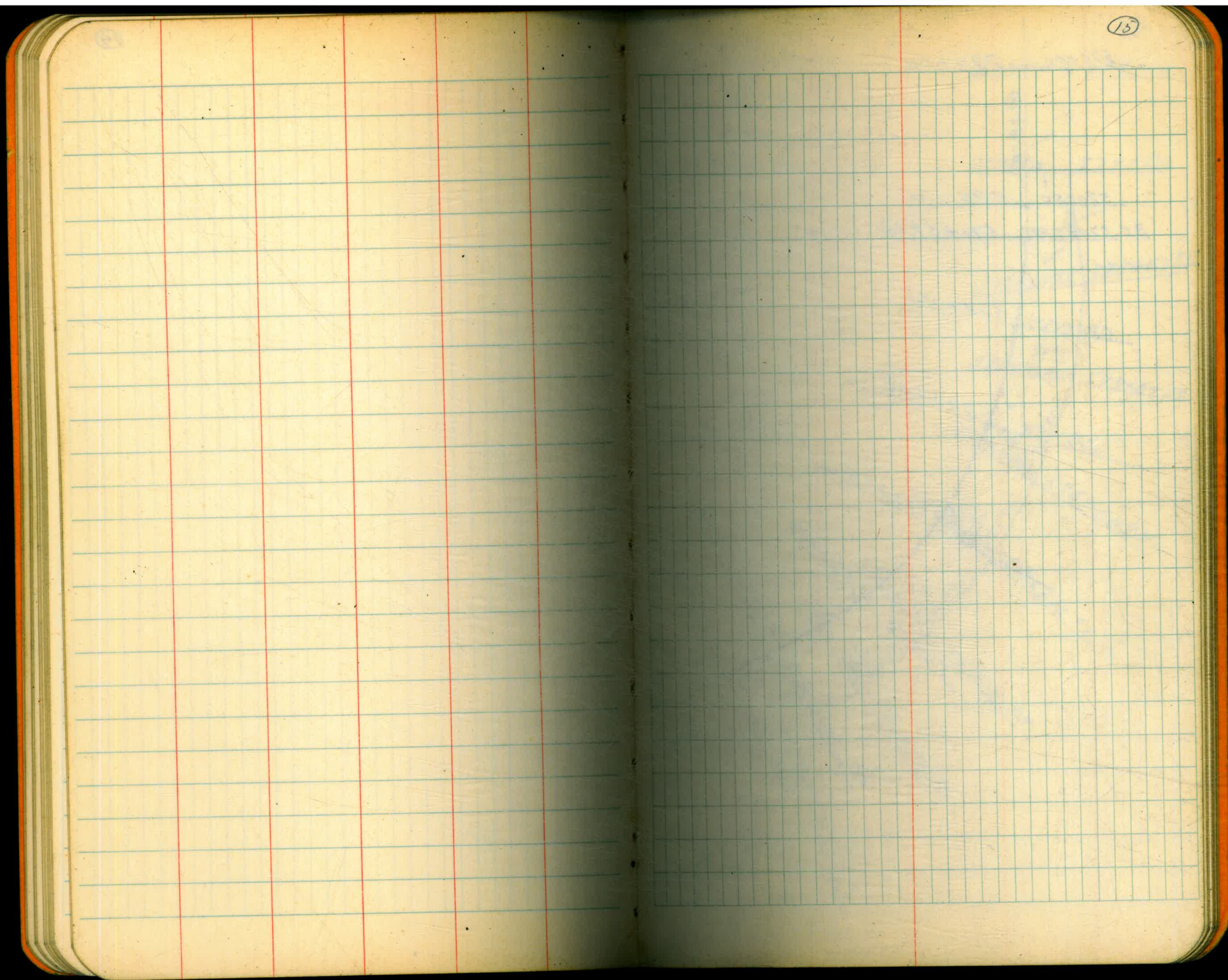
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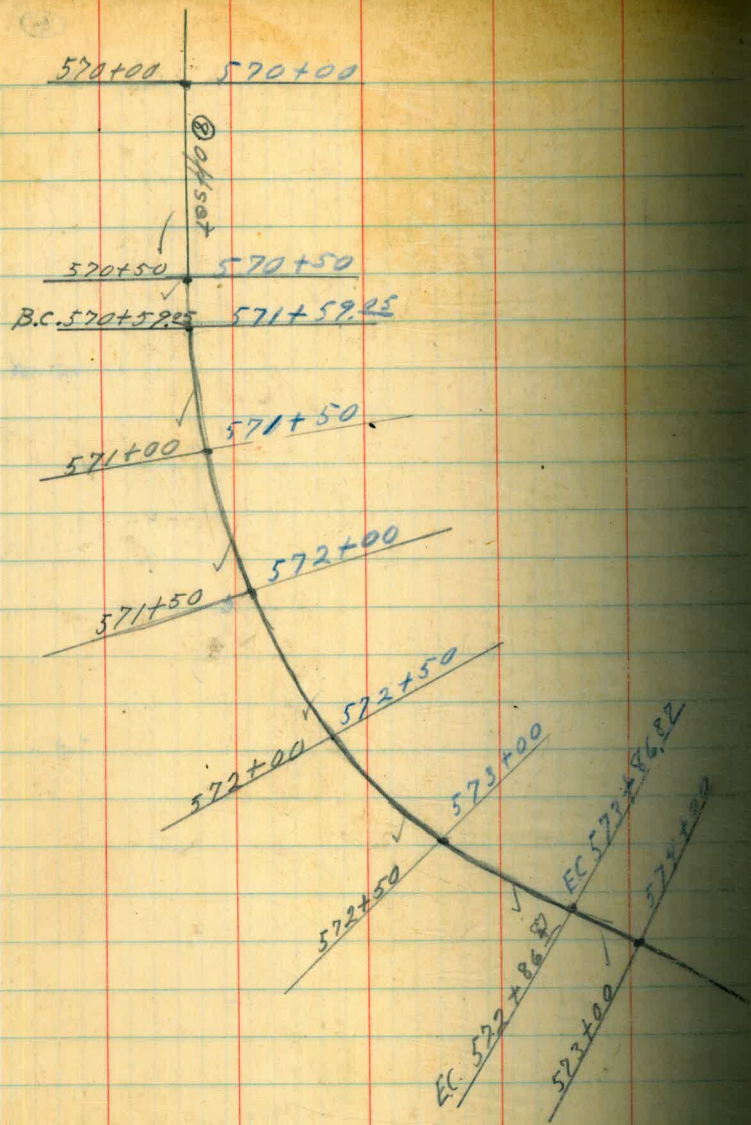




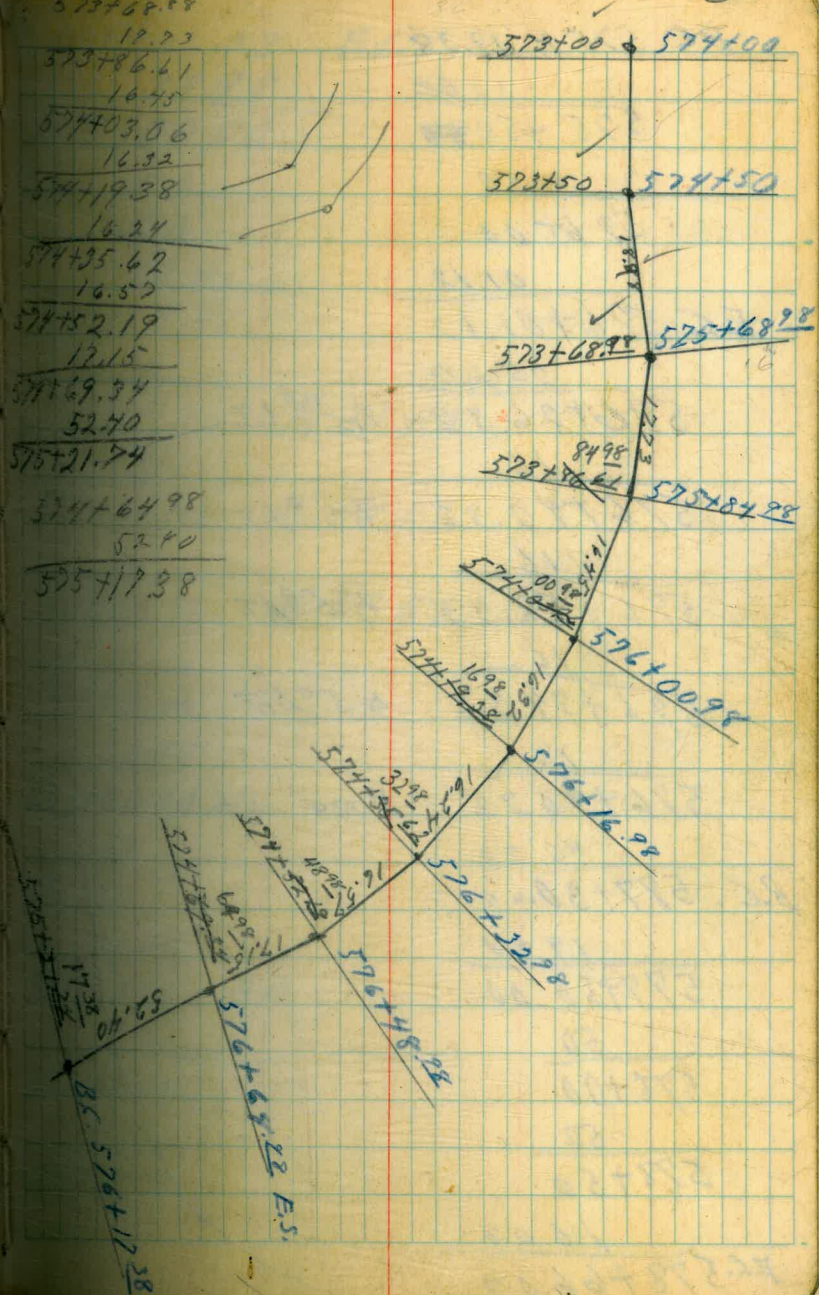








573+68.98
 17.73
 573+86.61
 16.45
 574+03.06
 16.32
 574+19.38
 16.24
 574+35.62
 16.57
 574+52.19
 17.15
 574+69.34
 52.70
 575+21.74
 574+64.98
 52.70
 575+17.38



B.C. 575 + 17.38

32.62

575 + 50 ~~00~~

50

576 + 00

01.12

E.C. 576 + 01.12

25.20

576 + 26.32 45° Lt.

16

576 + 42.32 45° Lt.

16

576 + 58.32 45° Lt.

16

576 + 74.32 45° Lt.

16

576 + 90.32 End Sp.

40.20

B.C. 577 + 30.60

19.40

577 + 50.00

50

578 + 00

50

578 + 50

16.03

E.C. 578 + 66.03

→ 578 + 66.03 E.C.

33.97

579 + 00.00

50

579 + 50

49.45

579 + 99.45

16

580 + 15.45 45° Rt.

16

580 + 31.45 45° Rt.

16

580 + 47.45 45° Rt.

16

580 + 63.45

36.55

581 + 00.00

50

581 + 50

39.05

581 + 89.05 B.C.

10.95

582 + 00.00

50

582 + 50

582 50
50
 583 00
6.57
 583 06.37 E.C.
73.73
 583 50.00
50
 584 00
50
 584 50
50
 585 00
50
 585 50
50
 586 00
50
 586 50
50
 587 00
58.97
 587 58.97
47.03
 588 00.00
1.15
 588 01.15

388 01.15
42.18
 588 43.33 E.C.
6.67
 588 50.00
50
 589 00
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 589 50
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 590 00
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 590 50
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 591 00
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 592 00
50
 592 50
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 593 00
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 593 50
50
 594 00

594+00
39.20
 594 3.920 B.C.
10.80
 594 50.00
50
 595 00
50
 595 50
20.10
 595 70.10 E.C.
29.90
 596 00.00
50
 596 50
50
 597 00
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 598 00
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 599 00
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 599.50

599 50
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 600 00
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 600 50
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 601 00
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 601 50
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 602 00
50
 602 50
50
 603 00
4.41
 603 04.41 B.C.
45.59
 603 50.00
20.44
 603 70.44 E.C.
29.56
 604 00.00
50
 604 50
50
 605 00

605 00

50

605 50

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606 00

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606 50

50

607 00

50

607 50

35 22

607 85 22 A 5° RT.

50

608 35 22 A 5° RT.

50

608 85 22 A 5° RT.

48

609 33 22 A 5° RT.

48

609 81 22 A 5° RT.

48

610 29 22 A 5° RT.

48

610 77 22 A 5° RT.

610 77 22 A 5° RT.

48

611 25 22 A 5° RT.

48

611 73 22 A 5° RT.

48

612 21 22 A 3° RT.

3 93

612 25 15 B.C.

27 85

612 50 00

50

613 00

50

613 50

50

614 00

50

614 50

50

615 00

31 16

615 31 16 E.C.

18 84

615 50 00

50

616 00

609 35 22
609 85 22

50 00

25 25

21 22

3 93

616 00
50
 616 50
40
 616 90 45° RT.
16
 617 06 45° RT.
16
 617 22 End Spl.
28
 617 50
41 29
 617 91 29 B.C.
8 71
 618 00 00
50
 618 50
50
 619 00
11 14
 619 11.14 E.C.
38 86
 619 50.00
50
 620 00

620 00
50
 620 50
50
 621 00
50
 621 50
50
 622 00
50
 622 50
50
 623 00
35
 623 35. ⁹³B.C.
15
 623 50
50
 624 00
50
 624 50
50
 625 00
16 51
 625 16.51 E.C.
16
 625 32.51 45° LT.

625 32.51 45° LT.
.52
 625 33.03 B.C.
16.97
 625 50.00
50
 626 00
50
 626 50
50
 627 00
13.38
 627 13.38 E.C.
36.62
 627 50.00
50
 628 00
50
 628 50
50
 629 00
50
 629 50
50
 630 00
50
 630 50

630 50
50
 631 00
50
 631 50
50
 632 00
50
 632 50
43 80
 632 93.80 B.C.
06.20
 633 00.00
50
 633 50
50
 634 00
50
 634 50
39 27
 634 89.27 45° LT.
16
 635 05.27 45° LT.
16
 635 21.27 45° LT.
16
 635 37.27 45° LT.

635 37 27 45° LT 640 28 45° RT
16 100

635 53.27 41° LT 641 28 45° LT
46 73 72

636 01 00 642 00
50 25 67

636 50 642 25 67 B.C. Leave Road

50
637 00

50
637 50

50
638 00 45° RT.

16
638 16 45° RT.

16
638 32 45° RT.

16
638 48

52
639 00 45° RT

48
639 48 45° RT.

32
639 80 45° RT.

48
640 28 45° RT.

LEVELS BELT J.T. (HARBOR FRONT)

Sta. BS. Hi. FS. Rod Elev.

From Book #1 Page #32

1023

135+50	L.T.C.		5.6	4.6
"	∅		6.4	3.8
136+00	L.T.C.		5.6	4.6
"	∅		6.1	4.1
136+50	L.T.C.		5.6	4.6
"	∅		6.4	3.8
137+00	L.T.C.		5.6	4.6
"	∅		5.8	4.4
B.S. 137+28 ³⁰	L.T.C.		5.6	4.6
"	∅		5.8	4.4
137+50	L.T.C.		5.5	4.7
"	∅		5.7	4.5
138+00	L.T.C.		5.5	4.7
"	∅		6.0	4.2
138+50	L.T.C.		5.6	4.6
"	∅		6.2	4.0
TR #19		use 6.7	5.63	4.60
TR #20		2.07	6.67	
139+00	L.T.C.		no curb	
"	∅		3.0	3.7
139+50	L.T.C.		no Curb	
"	∅		3.3	3.4

1023
5.63
4.60
2.07
6.67

Sta.	B.S.	use $\frac{41}{667}$ ✓	F.S.	Rod	Elev.
140+00	L.T.C.			70 curb	
"	∅			3.6	3.1
140+50	L.T.C.			70 curb	
"	∅			3.3	3.4
141+00	L.T.C.			3.4	3.3
"	∅			3.8	2.9
141+50	L.T.C.			3.6	3.1
"	∅			4.3	2.4
142+00	L.T.C.			3.8	2.9
"	∅			4.6	2.1
142+50	(20)			4.8	1.9
"	∅			4.7	2.0
143+00	(20)			5.1	1.6
"	∅			4.9	1.8
143+50	(20)			4.9	1.8
"	∅			4.9	1.8
144+00	L.T.C.			4.4	2.3
"	∅			5.0	1.7
144+50	L.T.C.			4.2	2.5
"	∅			4.8	1.9
145+00	L.T.C.			4.2	2.5
"	∅			4.7	2.0
145+50	L.T.C.			4.0	2.7
"	∅			4.6	2.1

Sta.	B.S. USE	H.I. 6.7 6.67 ^v	F.S.	Rod	Elev.
146+00	L.T.C.			3.9	2.8
"	Φ			4.5	2.2
EQ 146+58 ³⁰	L.T.C.			3.8	2.9
"	Φ			4.4	2.3
T.P. #20			3.79		2.88 ^v
BM #9	checking on		1.63		5.04
	We	Diff.		+	.06
BM #9					5.10
π #21	3.55	6.43 ^v			
✓ 147+00	L.T.C.			3.6	2.8
✓ "	Φ			4.2	2.2
✓ 147+50	L.T.C.			3.7	2.7
✓ "	Φ			4.1	2.3
✓ 148+00	L.T.C.			3.8	2.6
✓ "	Φ			4.0	2.4
✓ 148+50	L.T.C.			3.9	2.5
✓ "	Φ			4.1	2.3
✓ 149+00	L.T.C.			4.0	2.4
✓ "	Φ			4.3	2.1
✓ 149+50	L.T.C.			4.0	2.4
✓ "	Φ			4.5	1.9
✓ 150+00	L.T.C.			4.0	2.4
✓ "	Φ			4.4	2.0

(24)

6.67
3.79
2.88
3.55
6.43

BM #9 R.R. spike in power pole East.
Side at Ft. 28th St. 3' from MHT
M #6. Elev. 4.11
- 9.01
City 5.10

Sta	B.S.	Hi.	F.S.	Rod	Elev.
		6.43 [✓]			
✓ 150+50	L.T.C.			3.9	2.5
✓ " 2				4.5	1.9
✓ 151+00	L.T.C.			3.8	2.6
✓ " 2				4.4	2.0
✓ 151+50	L.T.C.			3.7	2.7
✓ " 2				4.2	2.2
✓ 152+00	L.T.C.			3.6	2.8
✓ " 2				4.3	2.1
✓ 152+50	L.T.C.			3.5	2.9
✓ " 2				4.1	2.3
✓ 153+00	L.T.C.			3.4	3.0
✓ " 2				4.1	2.3
✓ 153+50	L.T.C.			3.3	3.1
✓ " 2				4.0	2.4
✓ 154+00	L.T.C.			3.2	3.2
✓ " 2				3.7	2.7
✓ 154+50	L.T.C.			3.2	3.2
✓ " 2				3.9	2.5
155+00	L.T.C.			3.3	3.1
" 2				4.2	2.2
T.P. #21		6.8 [✓]	3.32		3.11 [✓]
⌘ #22	3.67	6.78			
155+50	L.T.C.			3.7	3.1
" 2				4.7	2.1

643
332
311
367
678

Sta.	BS.	Hi. 6.8 ✓ 6.78	FS.	Rod.	FLCk
B.C.	155+76 ²⁴	L.T.C.		3.8	3.0
	"	♀		4.7	2.1
	156+00	L.T.C.		3.8	3.0
	"	♀		4.8	2.0
	156+50	♀		5.4	1.4
	157+00	♀		5.1	1.7
	+50	♀		4.8	2.0
E.C.	157+72 ⁰⁰			4.6	2.2
	158+00	♀		3.1	3.7
	+50	♀		4.5	2.3
	159+00	♀		4.9	1.9
	+50	♀		4.8	2.0
B.C.	159+64 ⁰⁰			5.1	1.7
	160+00	♀		5.1	1.7
	+50	♀		5.8	1.0
	161+00	♀		6.3	0.5
	+50	♀		6.6	0.2
E.C.	161+91 ⁰⁰			7.5	-0.7
	T.P.#22		4.53		2.25
	#23	7.58	9.83 ✓		
	162+00	♀		10.8	-1.0
	+50	♀		10.2	-0.4
	163+00	♀		12.3	-2.5
	+50	♀		11.2	-1.4

732
678
= .54
478
463
2.25
258
9.83

Note Minus ✓
" "
" "
" "

Sta.	B.S.	I.I.	F.S.	Red	F. Len.
572		9.83 ^v			
164+00	±			10.6	-0.8
+50	±			9.3	+0.5
165+00	±			9.7	+0.1
+50	±			7.2	2.6
166+00	±			4.7	5.1
+50	±			4.2	5.6
167+00	±			3.7	6.1
+50	±			3.6	6.2
168+00	±			3.9	5.9
BC 168+50	±			3.8	6.0
169+00	±			4.5	5.3
T.P. #23		Use 11.5	5.75		4.08
π #24	7.40	11.48			
169+50	±			8.9	2.6
170+00	±			9.3	2.2
BC 170+50	±			9.5	2.0
BC 170+59 ¹²	±			9.4	2.1
171+00	±			10.7	0.8
171+50	±			6.9	4.6
172+00	±			7.1	4.4
172+50	±			5.8	5.7
EG 172+60.54	±			5.9	5.6
173+00	±			5.0	6.5
173+50	±			3.5	8.0

Note Minus

9.83
 52.5
 4.08
 7.40
 11.48

Sta.	B.S.	H.I.	F.S.	Red	Elev.
		11.48 ✓			
B.M.#1	checking on		7.73		3.75
			Diff. +	.15	
B.M.#1					3.90
B.M.#3	checking on		2.76		8.72
			Diff. +	.16	
B.M.#3					8.88
T.P.#24			2.76		8.72
B.M.#3	Use - 18.8				8.88
π#25	9.89	18.77 ✓			
123+90 ²⁰				10.7	8.1
124+00				10.8	8.0
+50				11.2	7.6
125+00				8.3	10.5
+50				5.2	13.6
126+00				2.0	16.8
+50				1.4	17.4
127+00				2.5	16.3
+50				7.3	11.5
127+87 ³³ = A0+00				6.3	12.5
T.P.#25			6.30		12.47
π#26	6.77	19.24 ✓			
128+00				6.7	12.5

(28)

AT T.P.#24 on B.M.#3 connecting to
city B.M. 12.905 - 9.01 = 3.895

Line will be repon. Line From
Sta 124+00 -
- 17.895 - 9.01 = 8.885

888
988
18.77
6.30
12.47
6.27
19.24

Sta.	B.S.	Hi.	FS.	Red.	Elev.
		19.24			
178+50				6.6	12.6
179+00				5.6	13.6
+50				5.7	13.5
180+00				5.4	13.8
+50				5.2	14.0
181+00				4.7	14.5
+50				5.2	14.0
182+00				5.2	14.0
+50				5.5	13.7
183+00				5.6	13.6
+50				5.6	13.6
184+00				5.7	13.5
+50				5.7	13.5
185+00				5.8	13.4
TP # 26			5.79		13.45
TP # 27	4.12	Use 17.6			17.57
185+50				4.9	12.7
186+00				3.6	14.0
+50				4.2	13.4
187+00				4.6	13.0
+50				4.5	13.1
188+00				4.8	12.8
+50				4.8	12.8
189+00				5.2	12.4

19.24
 5.29
 13.75
 4.12
 17.57

S72	B.S.	Hi.	F.S.	Rod	Elev.
		(Use 17.6) ✓ 17.57			
189+50				6.2	11.4
190+00				6.3	11.3
+50				7.2	10.4
191+00				7.6	10.0
+50				8.1	9.5
192+00				7.6	10.0
+50				8.7	8.9
193+00				8.7	8.9
+50				8.7	8.9 ✓
T.P. #27		(Use 11.6)	8.72		8.85
#28	2.71	11.56			
193+78				3.7	7.9
193+85	Water Surface			7.3	4.3
193+88	Bottom			7.0	2.6
194+00				8.2	3.4
+50	in The Water.				
195+00				6.3	5.3
+50				8.0	3.6
196+00				6.3	5.3
+50				4.8	6.8
197+00				4.5	7.1
191+50	Top of Rail. on Line.			1.6	10.0
196+50	Top of Rail on Line.			4.3	7.3
198+50	Top of Rail on Line.			4.6	7.0

17.57
~~17.2~~
 8.85
~~2.71~~
 11.56

Sta	B.S.	I.I. ✓ (11.6) 11.56	F.S.	Red	Black
197+50				5.5	6.1
198+00				5.3	5.3
+50				4.7	6.9
199+00				4.9	6.7
+50				6.7	4.9
200+00				4.1	7.5
+50				4.8	6.8
201+00				5.0	6.6
+50				4.4	7.1
T.P. #28			351		8.05 ✓
T.P. #29	3.76	11.81			
202+00				4.3	7.5
+50				7.1	4.7
203+00				8.3	3.5
+50				10.6	1.2
203+63				11.5	0.3
					Water edge
204+00					in the water
+18				11.5	0.3
+50				8.5	3.3
205+00				4.1	7.7
+50				3.8	8.0
206+00				4.2	7.6
+50				6.3	5.5

Turn to Book #3 Page #10

376

11.56
3.51
8.05
3.76
11.81

576

5.76
6.49
7.22
7.95
8.68
9.41

$$\begin{array}{r} 301.71 \\ \underline{8.15} \\ 293.56 \\ \underline{6.12} \\ 299.68 \end{array}$$

$$\begin{array}{r} 256.76 \\ \underline{3.24} \\ 252.82 \\ \underline{6.12} \\ 258.94 \\ \underline{258.89} \\ .05 \end{array}$$

$$\begin{array}{r} 557+09.52 \\ \underline{+16} \\ 556+93.52 \\ \underline{16} \\ 556+77.52 \\ \underline{16} \\ 556+61.52 \end{array}$$

$$\begin{array}{r} 556+76.52 \\ \underline{16} \end{array}$$

$$\begin{array}{r} 556+76.52 \\ \underline{16} \end{array}$$

$$536+82.52$$

$$\begin{array}{r} 536+82.52 \\ \underline{16} \\ 552+08.52 \end{array}$$

$$\begin{array}{l} 1. = \cancel{40^{\circ}16'} \\ 2. = \cancel{9^{\circ}22'} \end{array}$$

$$\begin{array}{l} 1. = \cancel{9^{\circ}23'} \\ 2. = \cancel{45^{\circ}30''} \end{array}$$

$$\begin{array}{r} 800 \\ 6 \overline{)4800} \end{array}$$

$$\begin{array}{r} 800 \\ \underline{11} \\ 801 \\ 801 \\ \underline{1800} \\ 98.40 \end{array}$$

$$\begin{array}{r} 12.91 \quad 10.48 \\ \underline{9.01} \quad \underline{7.21} \\ 3.90 \quad 2.77 \\ \underline{2.77} \\ 1.13 \end{array}$$

L 9° 49'

L 11° 28'

L 17° 24'

L 14° 35'

L 11° 02'

497+83.09

16

497+99.19

16

498+15.09

16

498.31.09

$$\begin{array}{r} 10.48 \\ \underline{2.76} \\ 7.72 \end{array}$$

17.89

9.01

8.88

7.72

1.16

		16	
Santee	42323.6	<u>7</u>	
	<u>2</u>	112	
	42325.6	42325.4	
		<u>42323.6</u>	
	42323.6	1.8	
	<u>4</u>		
	42327.6	42326.6	
		<u>42323.6</u>	
		3.0	
	31977		
	537		
	42323.6	325.34	
	<u>5.3</u>		
	42328.9	5.10	28.3
		<u>32024</u>	<u>230</u>
320.24			
<u>6.12</u>			
326.36	42323.6	326.599	47
	<u>6.3</u>	<u>326.36</u>	
	42329.9	.239	
TR #49			319.77
TR #	5.57	325.34	
RM.		573780 5.10	320.24
	<u>112</u>	<u>1.12</u>	
		57462	

20400
32
20368
20450
32
18