

ITEM	T. P. BOOK #13 DESCRIPTION	PAGE
1.	Alise Street Seaside Street to Soto Street	I.
2.	Castellar Street Seaside Street to Soto Street	I.
3.	Greene Street Ebers Street to Belinas Street	I-2.
4.	Soto Street Etiwanda Street Seaside Street Alise Street to Voltaire Street	I-2.
5.	Voltaire Street Froude Street to Belinas Street	2.
6.	Lotus Street Ebers Street to Froude Street	I.

ITEM	T. P. BOOK #13 DESCRIPTION	PAGE
7.	Ebers Street Greene Street to Lotus Street	1.
8.	Froude Street Greene Street to Voltaire Street	1-2.
9.	Lotus Street Abbott Street to De Foe Street	3.
10.	Voltaire Street Muir Street Long Branch Avenue Brighton Avenue Cape May Street Saratoga Street Santa Monica Street Newport Street Abbott Street to Guizot Street	4-5. 5-6. 7-8. 9-10. 11-13. 13-14 15-16 17-18
II.	Niagara Street Bacon Street to Froude Street	19-20.

ITEM	T. P. BOOK #10 DESCRIPTION	PAGE
I2.	Narragansett Street Del Monte Avenue Santa Cruz Avenue Coronado Avenue Bacon Street to Froude Street	21-26.
I3.	Del Mar Avenue Orchard Avenue Pescadero Avenue Cable Street to Froude Street	27-31.
I4.	Pescadero Avenue at Santa Barbara Street	31.
I5.	Point Loma Avenue Bermuda Avenue De Fee Street to Froude Street	31.
I6.	Survey of City Fire Dept. Bldg. location on lot. Newport Street east of Bacon Street. Ocean Beach Lot I8 Block 60	33.

ITEM	T. P. BOOK #10 DESCRIPTION	PAGE
17.	Loma Alta No. I ties see F. B. #1721-48 1769-6 1862-43 2060-36	40.
18.	Loma Alta No. I survey prop. culvert on lot 38 block I2	41.
19.	Survey of Ocean Beach block 72 lots I-10 map 279. Area easterly Ocean Blvd. and south of Newport Street	42.
20.	De Puy's Addition location of slough for Ocean Beach Assesment Map	50
21.	Sunset Cliffs survey of block 4. See map #1889 sheet 3 of 5	51-52.

ITEM	T. P. BOOK #13 DESCRIPTION	PAGE
22.	Playground at Ocean Beach X sections for proposed playground near inter- section of Point Loma Blvd. and Bacon Street	53-58
23.	La Jolla Boulevard sidewalk yardage estimate Center Street to Prospect Street	59-62
24.	Ocean Bay Beach survey of block 96 near Abbott Street and Voltaire Street	63.
25.	Cowerie Street improve- ments in Villa Tract La Jolla Park block 74 near lots I5 & I6	64.
26.	Newport Street improve- ments at Abbott Street	65.
27.	Newport Street improve- ments for drain.	66-68 &
(see next)		71-72

ITEM	T.P. BOOK #13 DESCRIPTION	PAGE
27.	continued. Froude Street to De Foe Street	
28.	West Point Loma Blvd. at Abbott Street. X section for proposed drain	69.
29.	Abbott Street, Et. Al. curb notes	70.
30.	Ocean Beach Area, survey of bulkheads and walk west Voltaire Street and northerly Abbott Street	73.
31.	Voltaire Street, location of railway tracks at Froude Street	74.
32.	Voltaire Street between Bacon Street and Froude Street. Location of curbs	74-75.

	T. P. BOOK #13	
ITEM	DESCRIPTION	PAGE
33.	Ocean Beach Bathing Plunge Grades for finished bottom.	76.
34.	Catalina Boulevard ties approximately 1230' <sub>±</sub> northerly of N. W. corner P. L. 190	77.
35.	Etiwanda Street Soto Street 200' <sub>±</sub> south of Castellar Street. Sewer manhole elevations.	78.

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13

DIETZGEN  
 TRADE MARK

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ENGINEERS  
FIELD BOOK

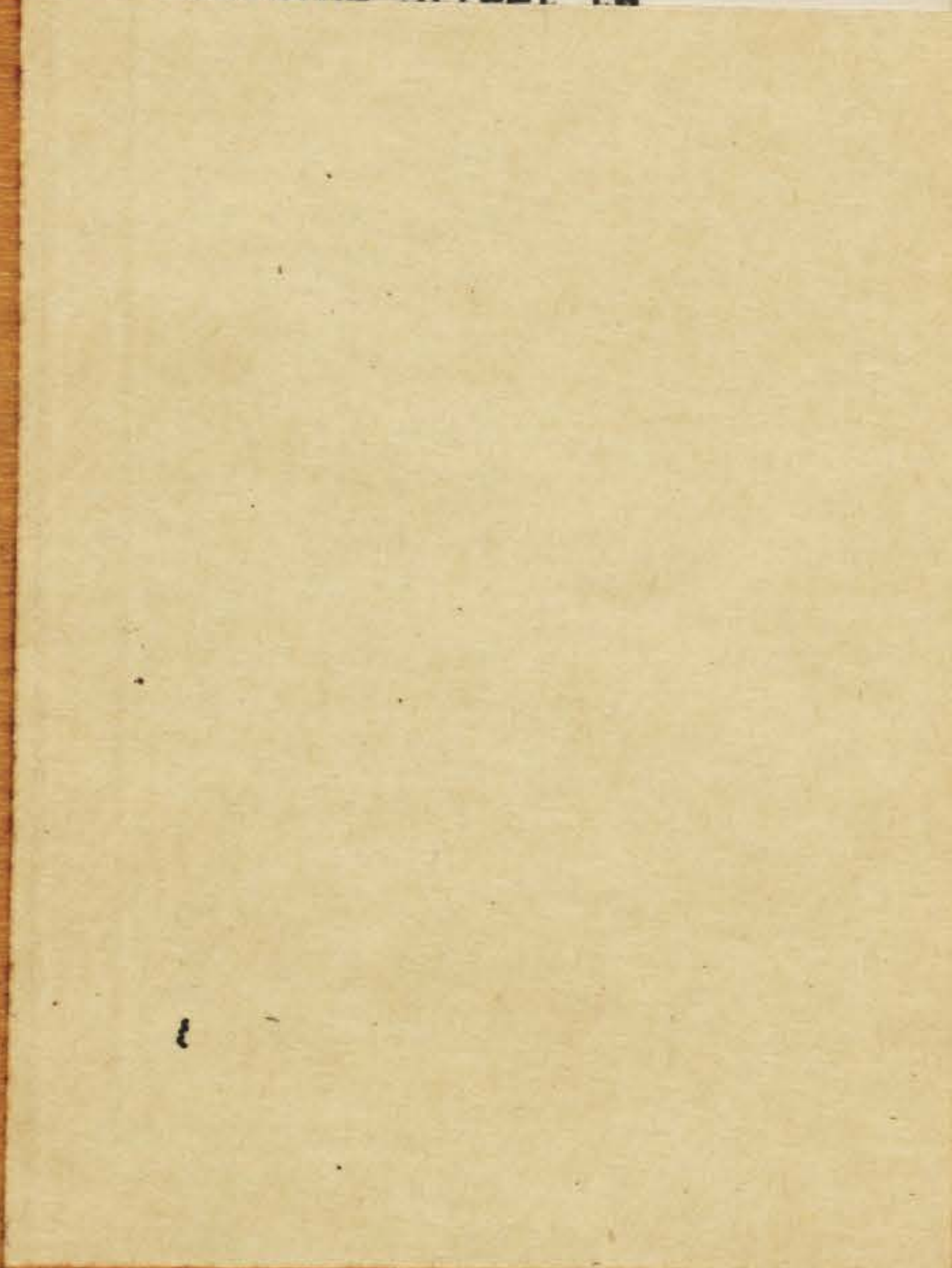
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T.P. 13



ITEM	DESCRIPTION	PAGE
I.	Alise Street	I.
	Seaside Street to	



36	44.0	44.1	44.2	44.3	44.4	44.5	44.6	44.7	44.8	44.9	36
37	45.0	45.1	45.2	45.3	45.4	45.5	45.6	45.7	45.8	45.9	37
38	46.0	46.1	46.2	46.3	46.4	46.5	46.6	46.7	46.8	46.9	38
39	47.0	47.1	47.2	47.3	47.4	47.5	47.6	47.7	47.8	47.9	39
40	48.0	48.1	48.2	48.3	48.4	48.5	48.6	48.7	48.8	48.9	40

**Example**—If point is 22.6 ft. above grade, how far should it be from center line to be a slope stake point? Ans. from Table 30.6. For same slopes but other widths of roadbed, correct above figures by one-half difference in width of roadbed; thus in example above, for 20 ft. roadbed distance will be  $30.6 + (20 - 16) \div 2$  or 2 ft. added to 30.6 = 32.6. For slopes of 1 on  $1\frac{1}{2}$  see inside of back cover.

127.07  
 256.79

509.63

MICROFILMED

APR 5 1965

156951  
 31372

(FIRST SEE INDEX-I)

# INDEX-II

STREET	PAGES
SOTO	1-2, 50, 78
ETIWANDA	1-2, 50, 78
SEASIDE	1-2, 50
FROUDE	1-2, 74
EBERS	1
ALISO	1, 50
CASTELLAR	1, 50, 78
LARKSPUR	1
GREENE	1-2, 40, 50
LOTUS	1-2
BOLINAS	2
GUIZOT	2
VOLTAIRE	2, 40, 63, 73-74
BACON	33, 53
NEWPORT	33, 65, 66, 71
AVALON	40-41
BANNING	40
WHITTIER	40
UDAL	40
MENDOCINO BLVD.	40-41
CATALINA BLVD.	40, 77
FAMOSA BLVD.	40
SAN CLEMENTE	40
W. PT. LOMA BLVD.	50, 53, 63
ABBOTT	63, 65, 73
MUIR	63
COWRIE	64
DE FOE	70
PT. LOMA AVE.	70

# INDEX-I

TIE POINT BOOK #13 - OCEAN BEACH

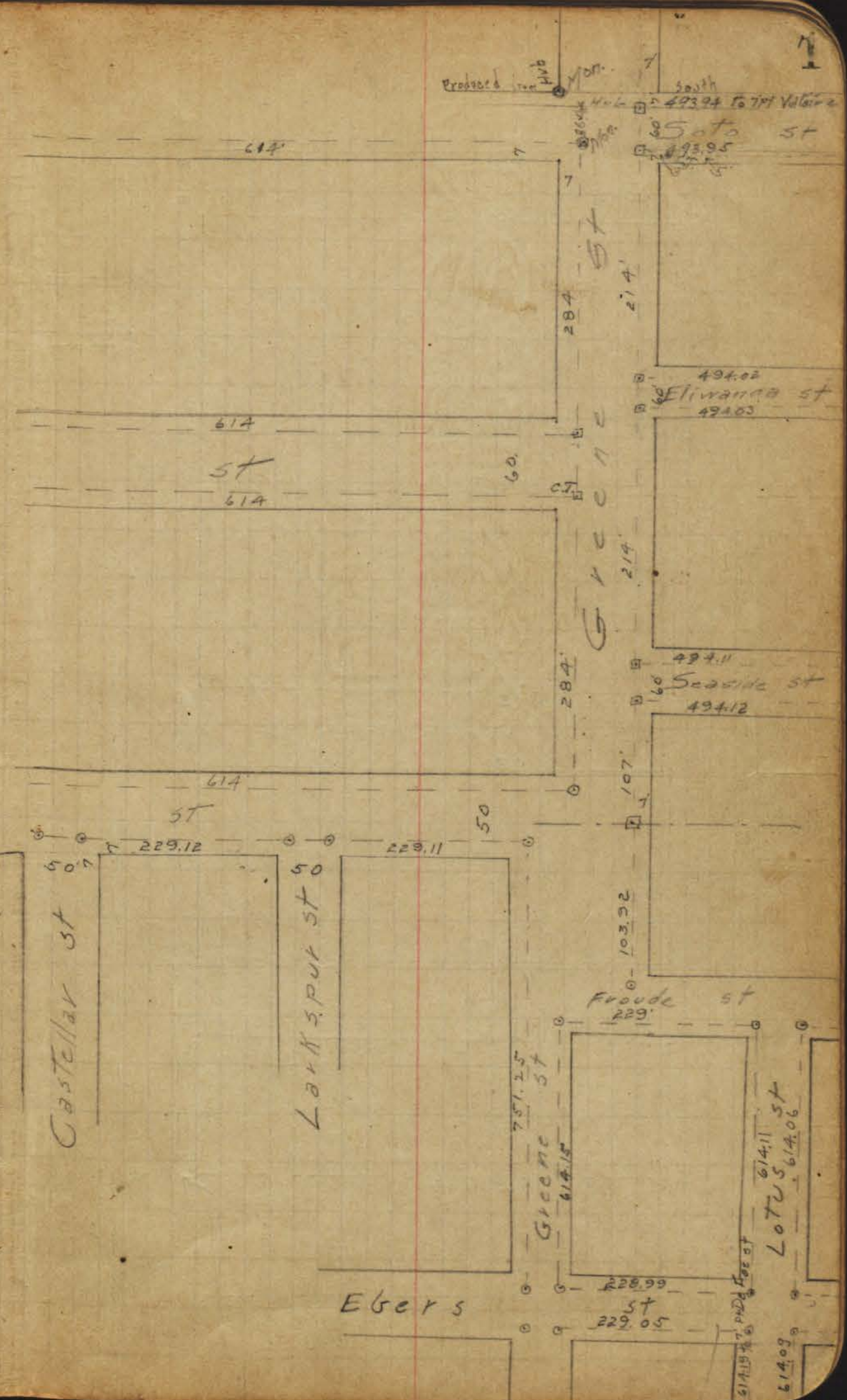
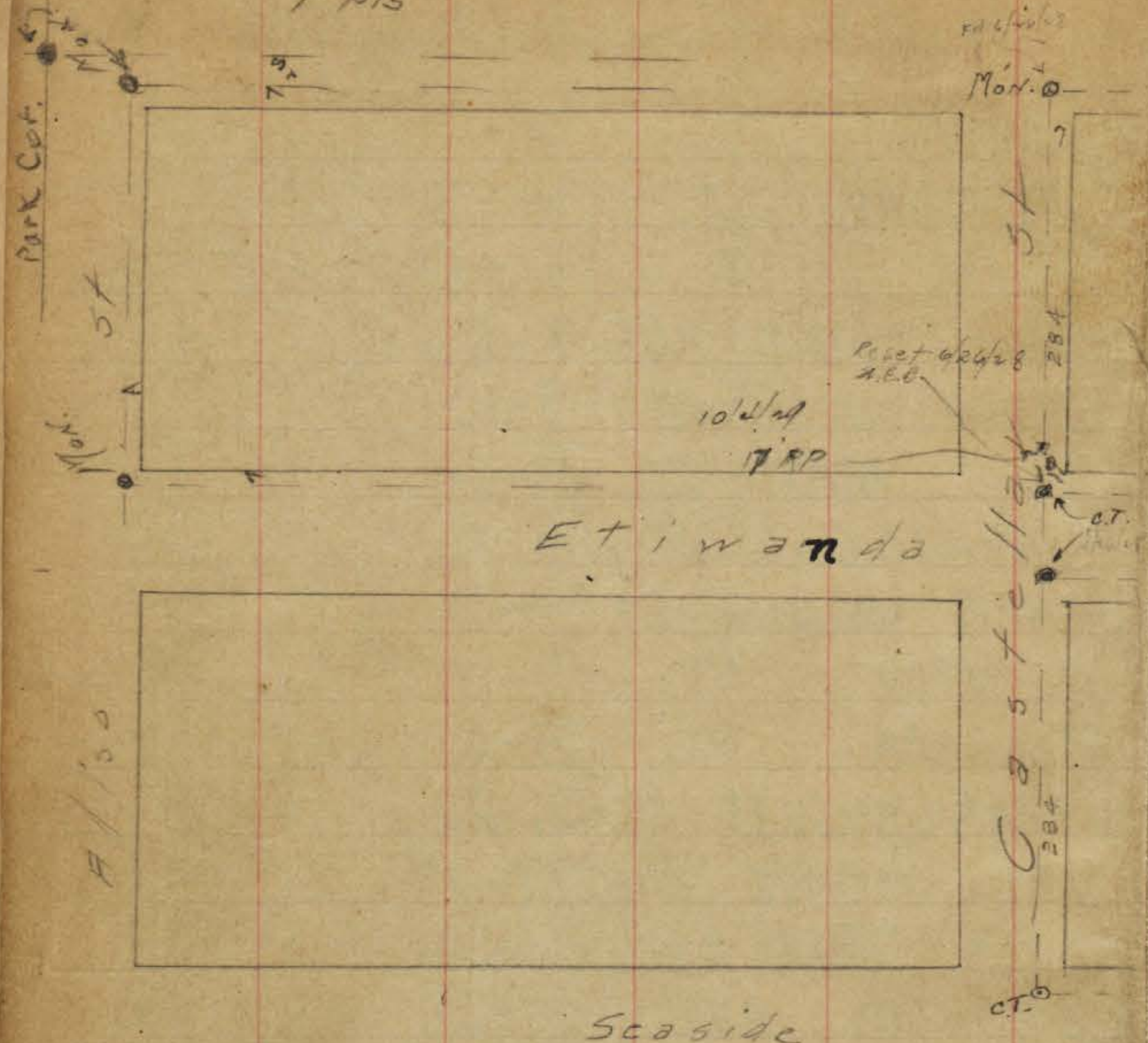
LOTUS ST.	3 ✓
VOLTAIRE ST.	4-5 ✓
MUIR ST.	5-6 ✓
LONG BRANCH AVE.	7-8
BRIGHTON AVE	9-10
CAPE MAY ST.	11-13
SARATOGA ST.	13-15
SANTA MONICA ST.	15-17
NEWPORT ST.	17-19 ✓
NIAGARA ST.	19-20
NARRAGANSETT ST.	21-22
DEL MONTE AVE.	22-23
SANTA CRUZ AVE.	24-25
CORONADO AVE.	25-26
DEL MAR AVE.	27-28
ORCHARD AVE.	28-29
PESCADERO AVE.	30-31
BERMUDA AVE.	31-32
POINT LOMA AVE.	31-32 ✓

(FROM SPRAY ST. TO SANTA BARBARA ST.) ONLY

OTHER TIE POINTS & INFORMATION FOR THE ABOVE STREETS & OTHER STREETS ON OPPOSITE PAGE

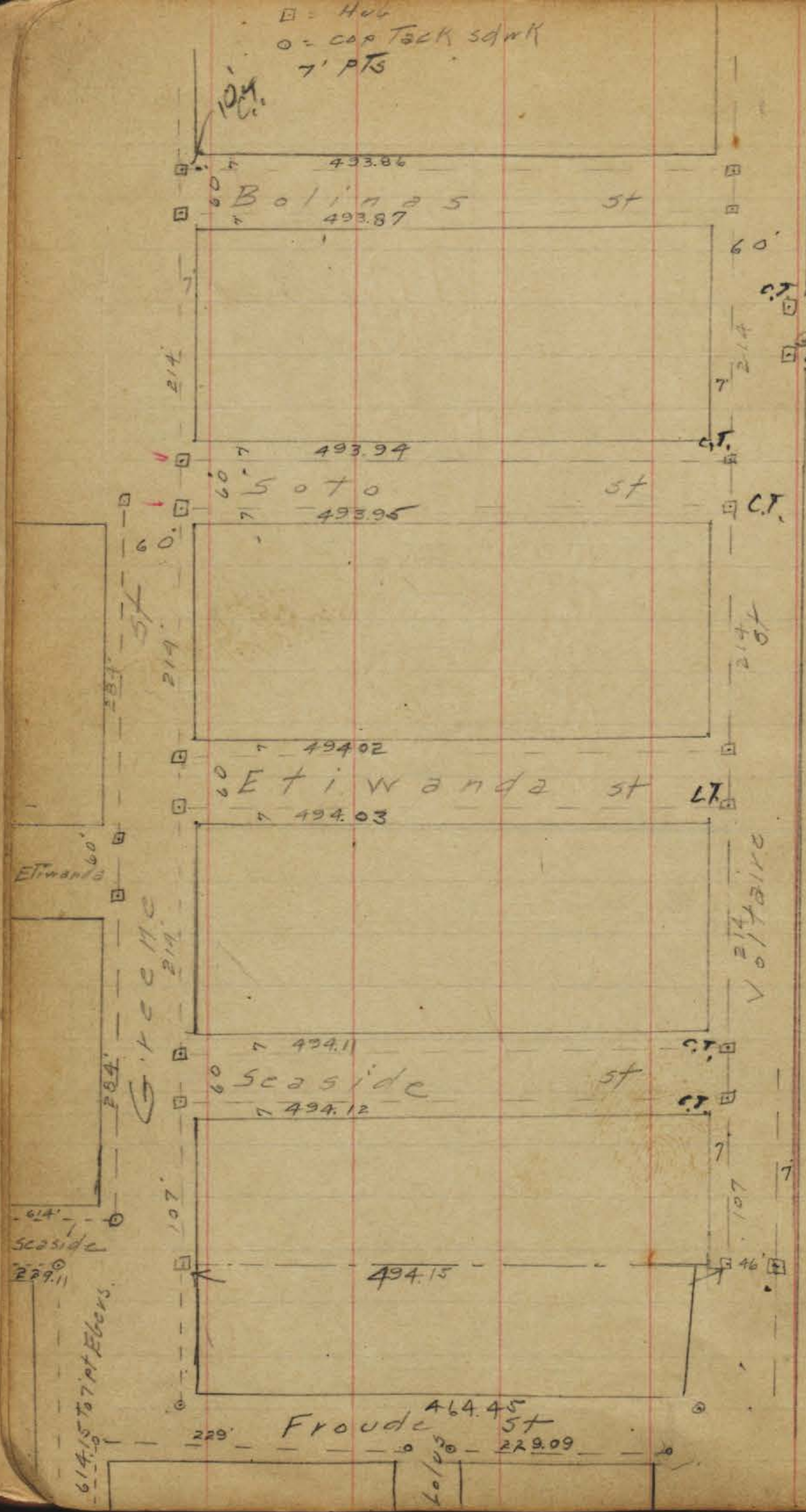
← ✓ (ALSO SEE INDEX-II)

□ = Hub  
○ = Cop Tack  
7' PTS



□ = Hub  
○ = cap tack sdwk  
7' PTS

100'



284  
270  
130  
1440

277  
130  
147

70  
00  
130

Abbott

st

229.12

Lot 45 st

229.02

Bacon

st

CGT

Cable st

229.09

61406

229.07

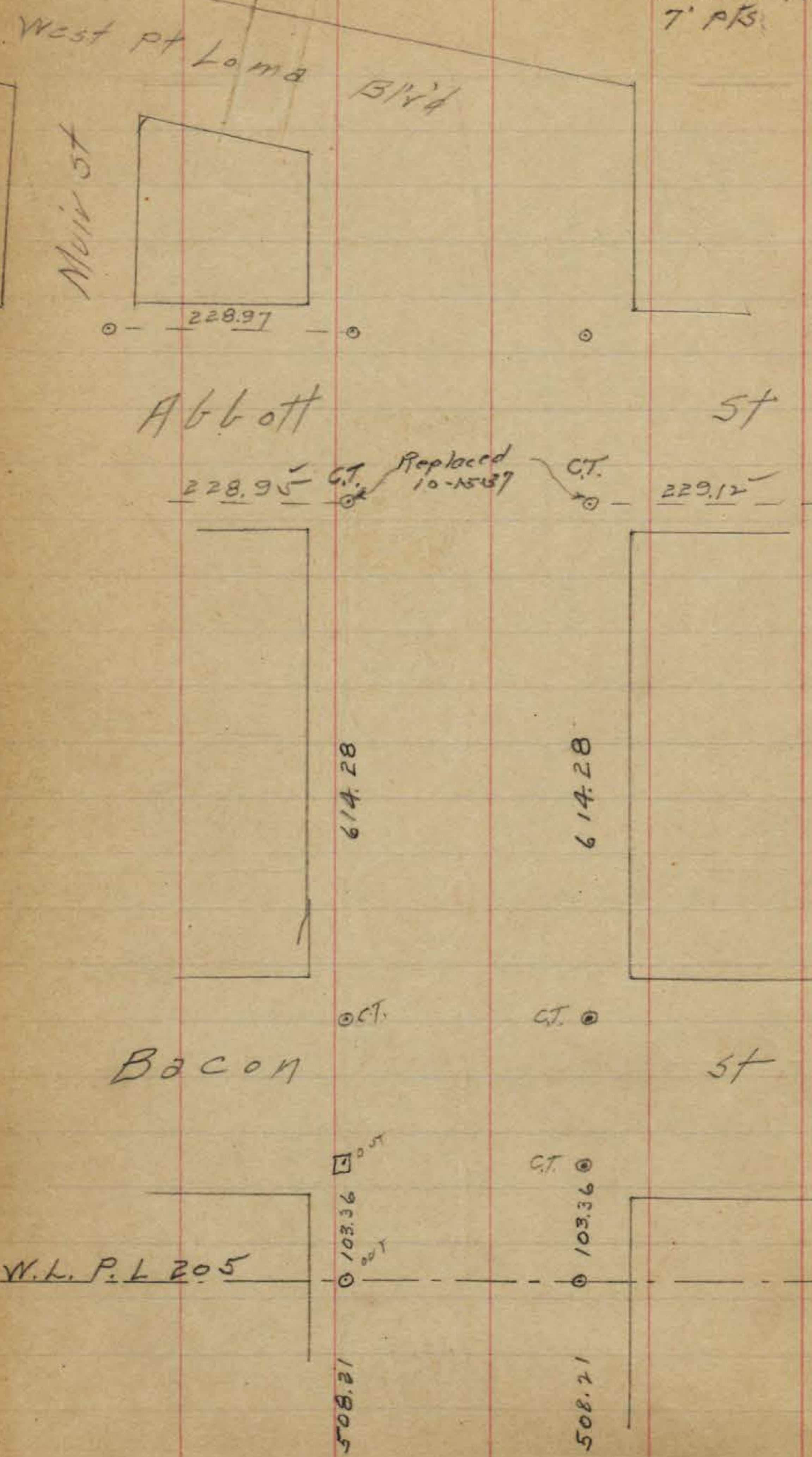
De Foe

229.06

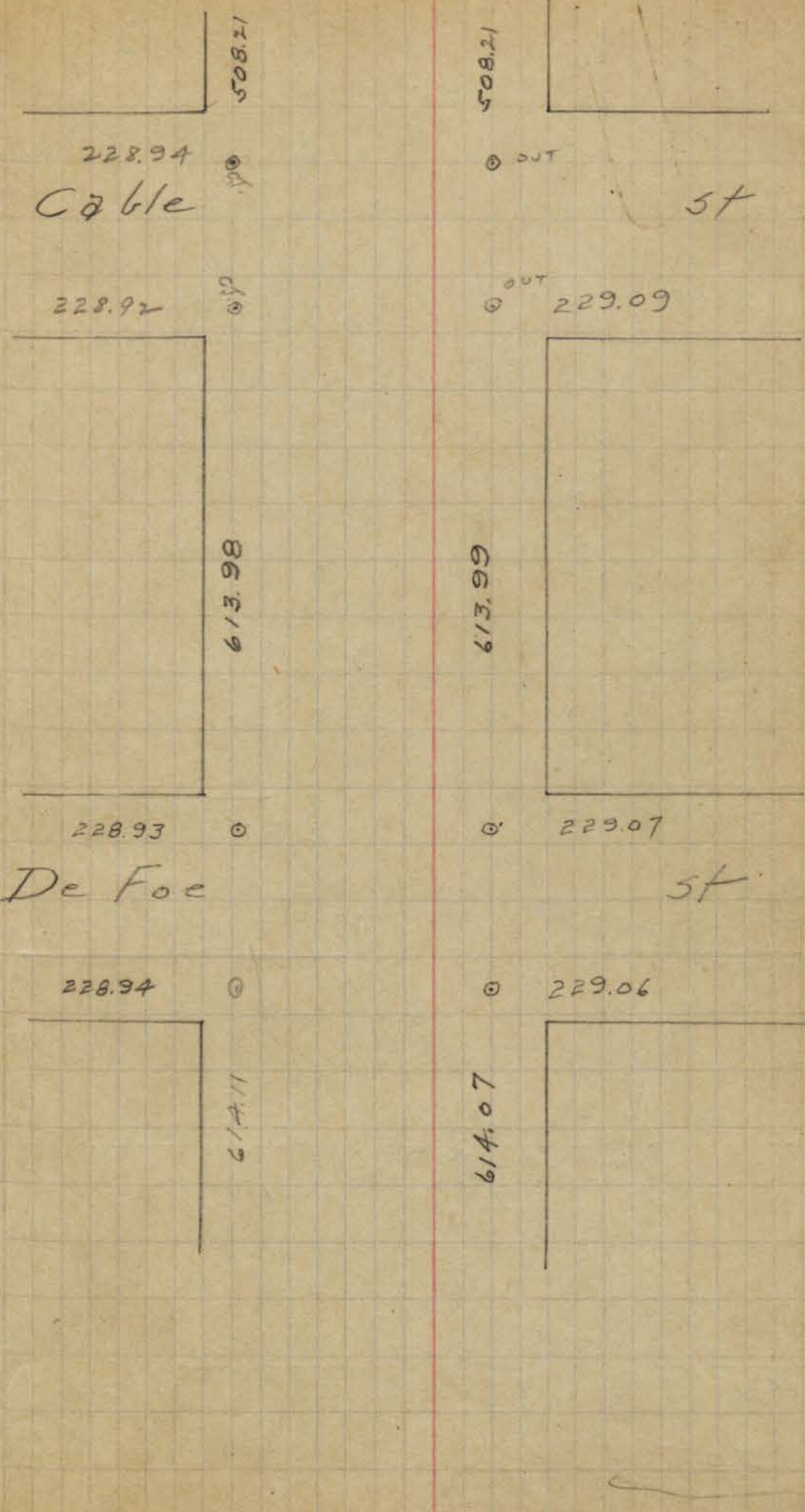
Lot 45

Blvd

Voltaire st  
 o = cap tack  
 □ = Rdwd Hub  
 T = PK

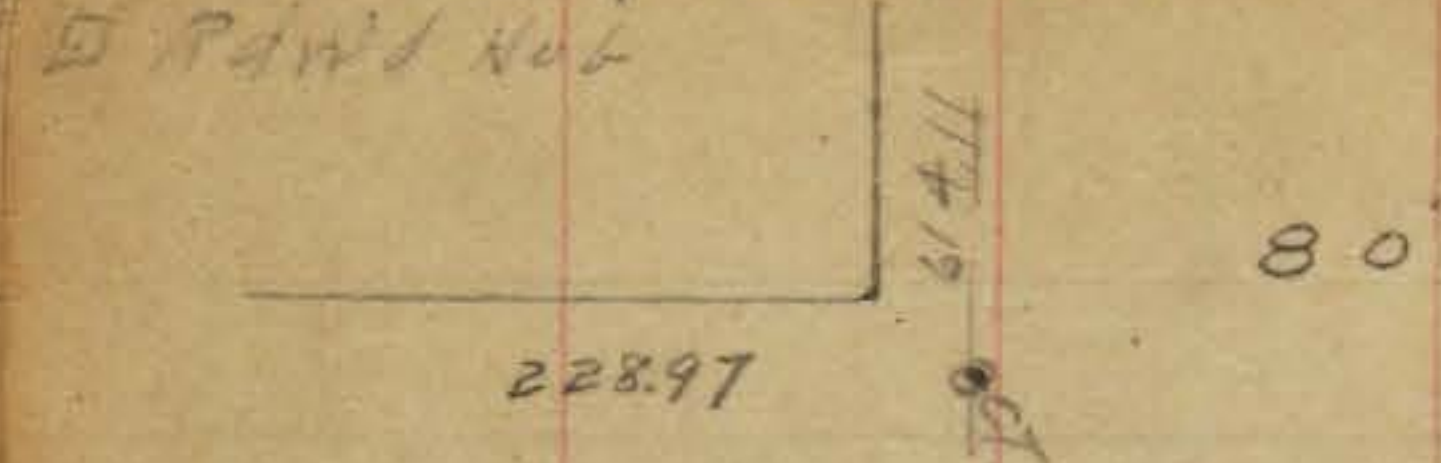


Voltaire st

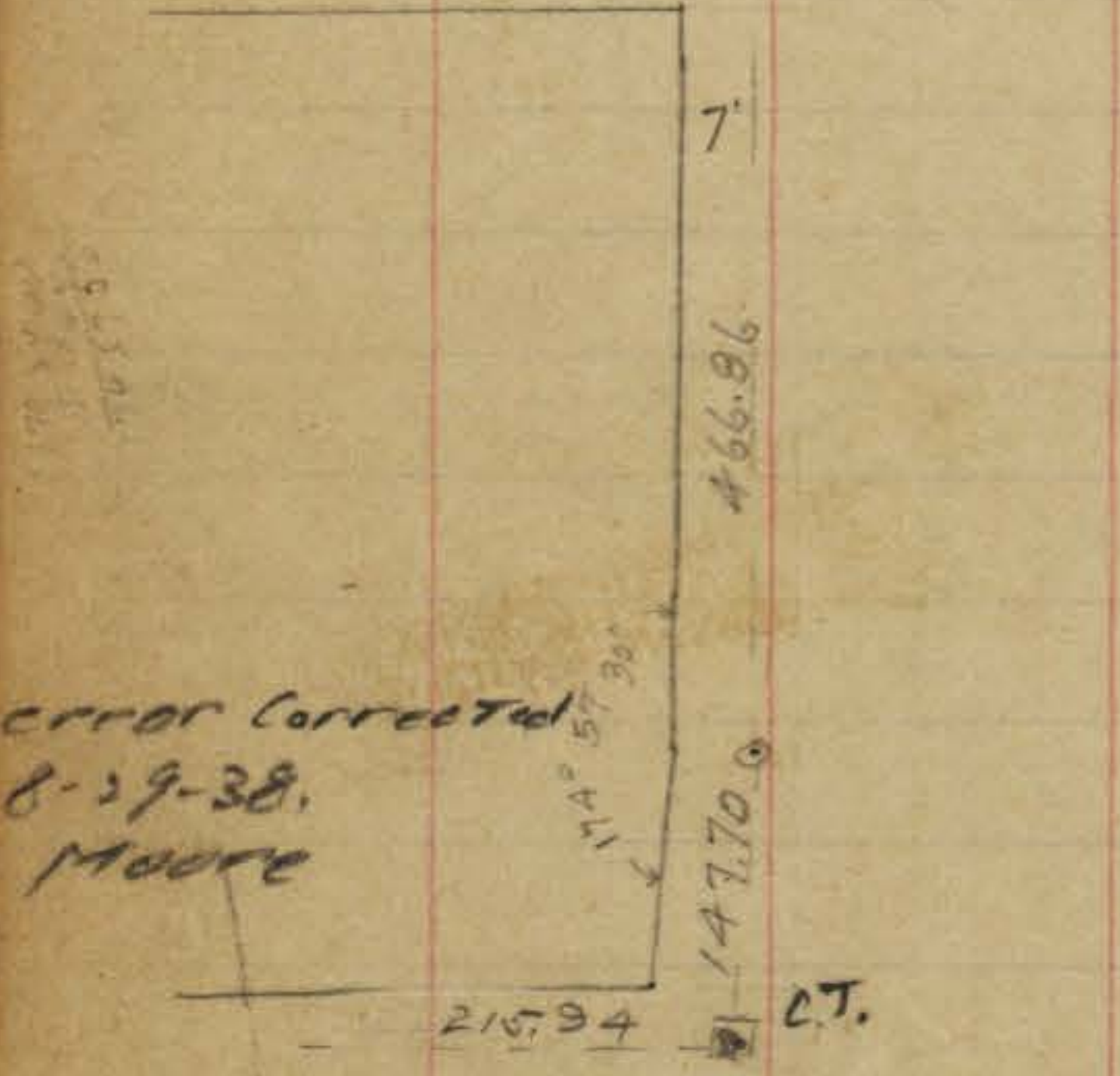
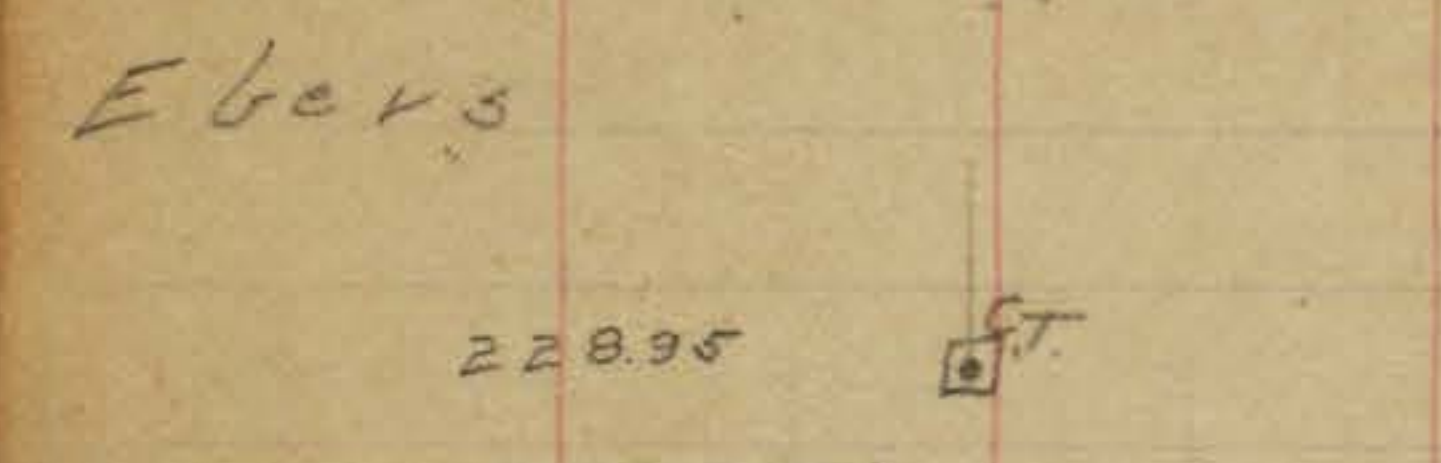


0 = cop track  
□ = Rdwd Hub

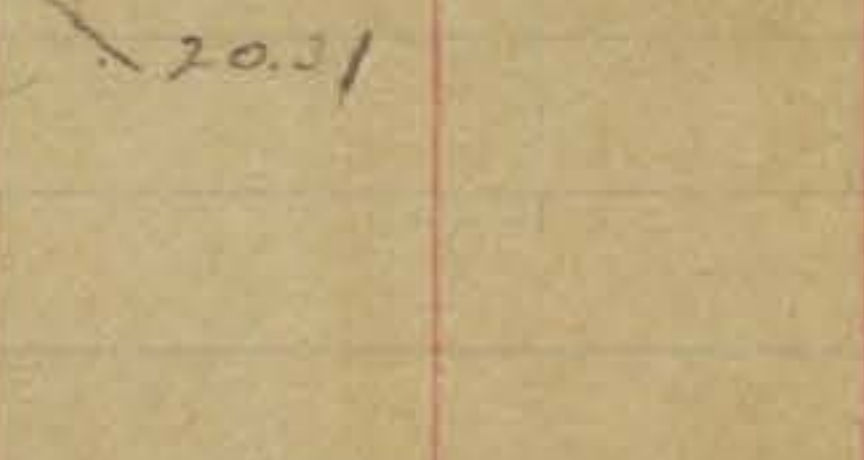
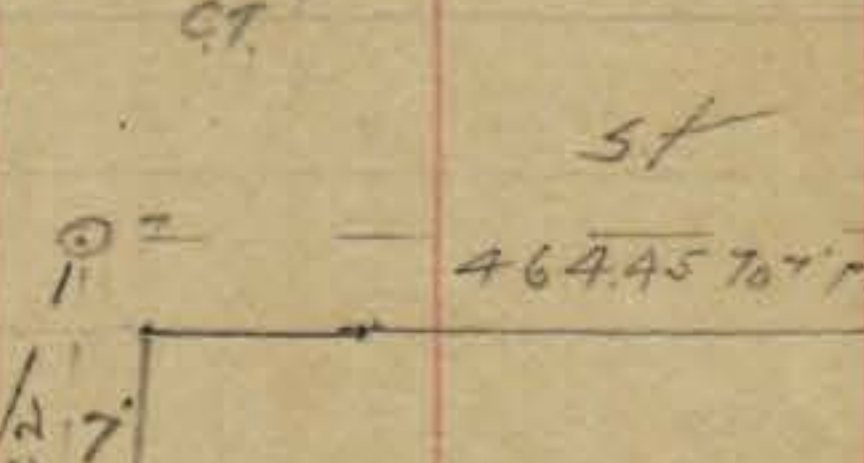
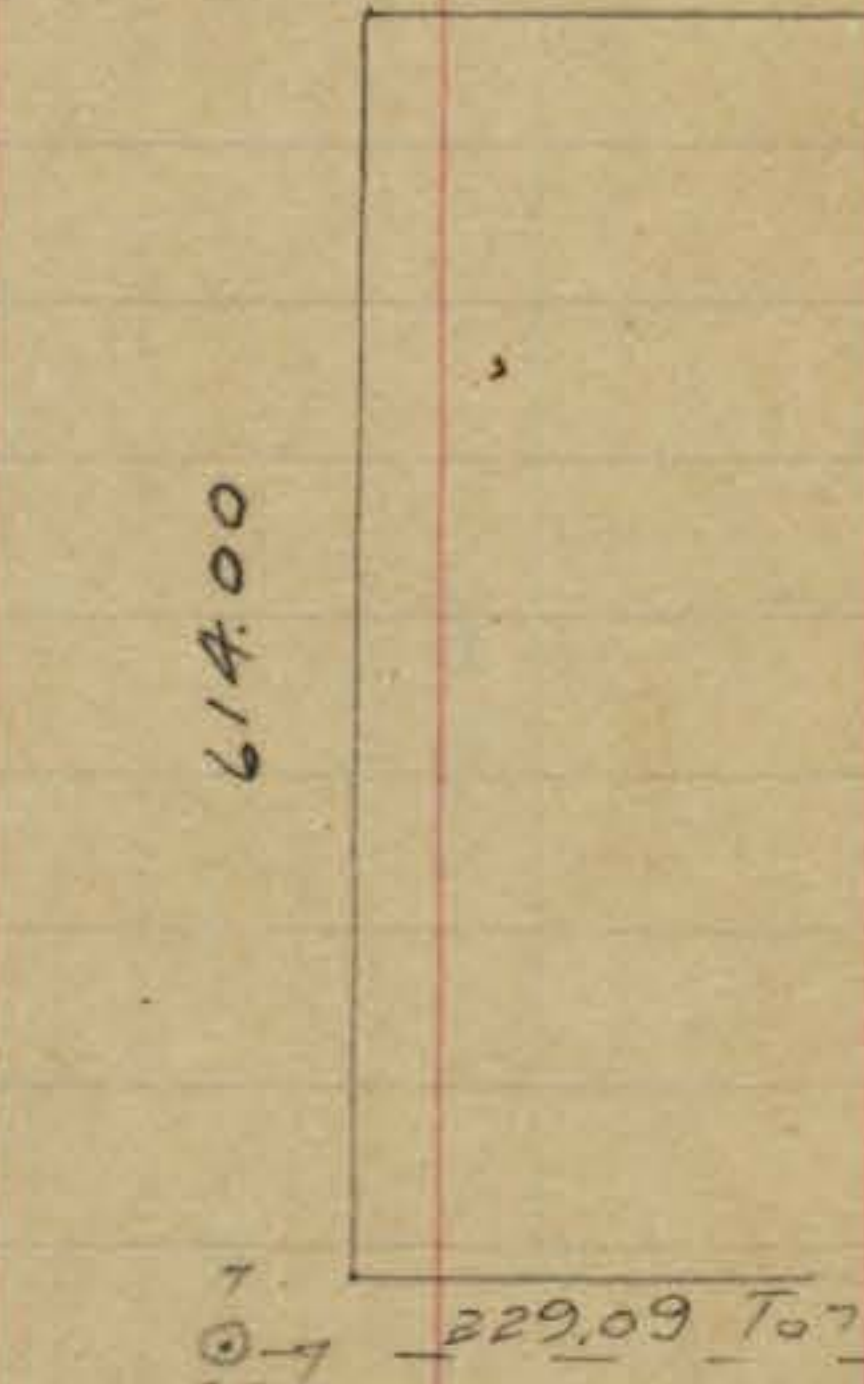
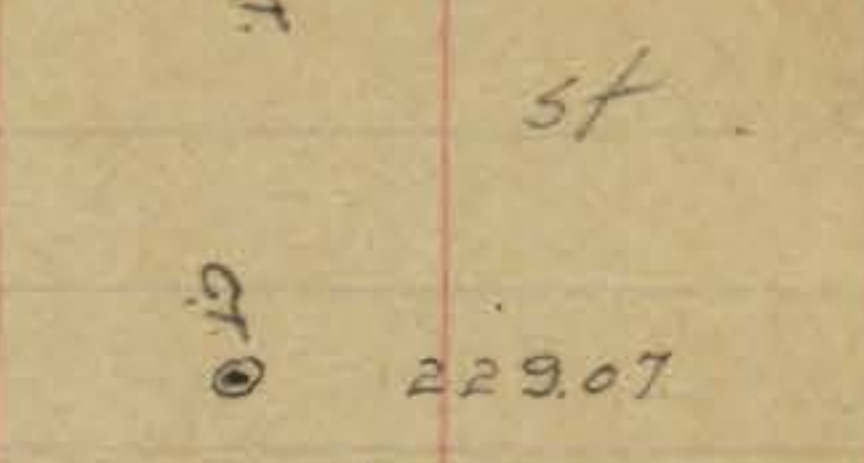
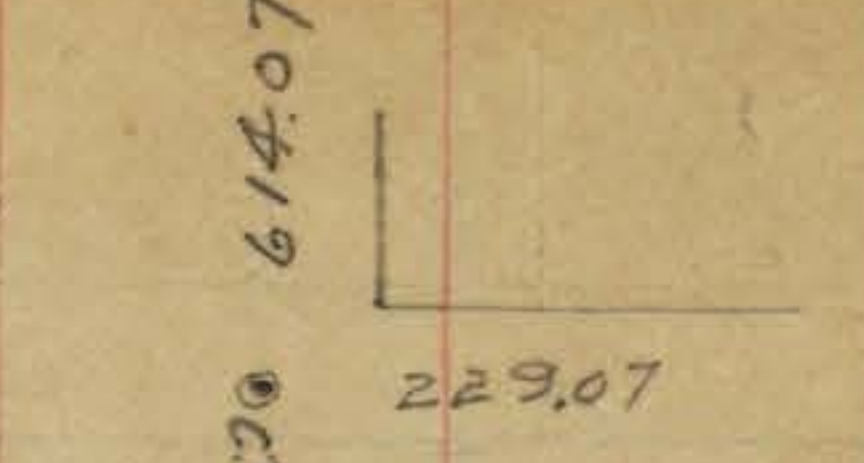
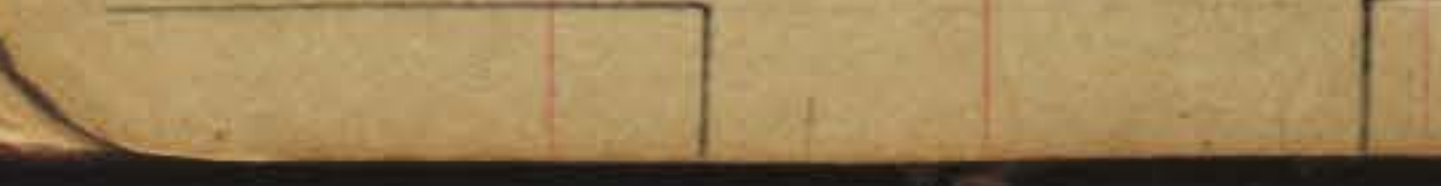
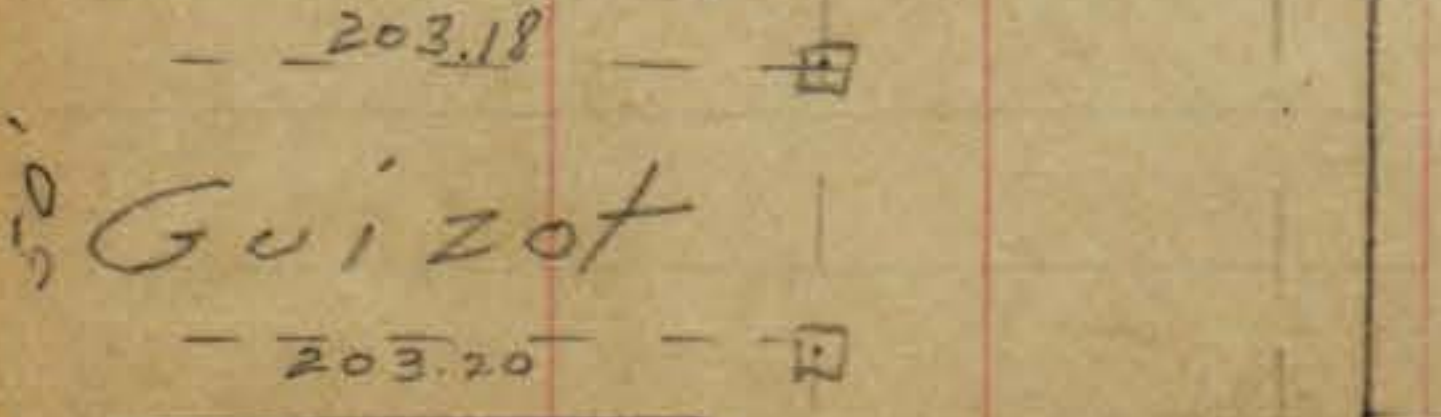
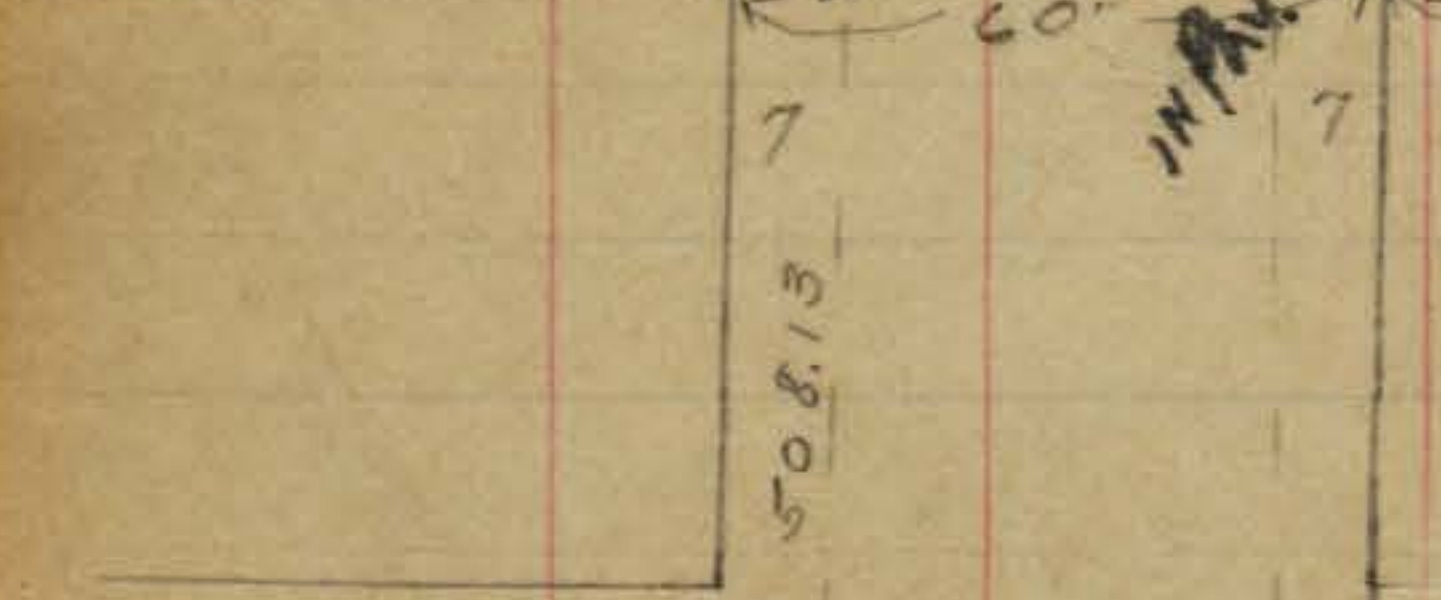
51



Ebers



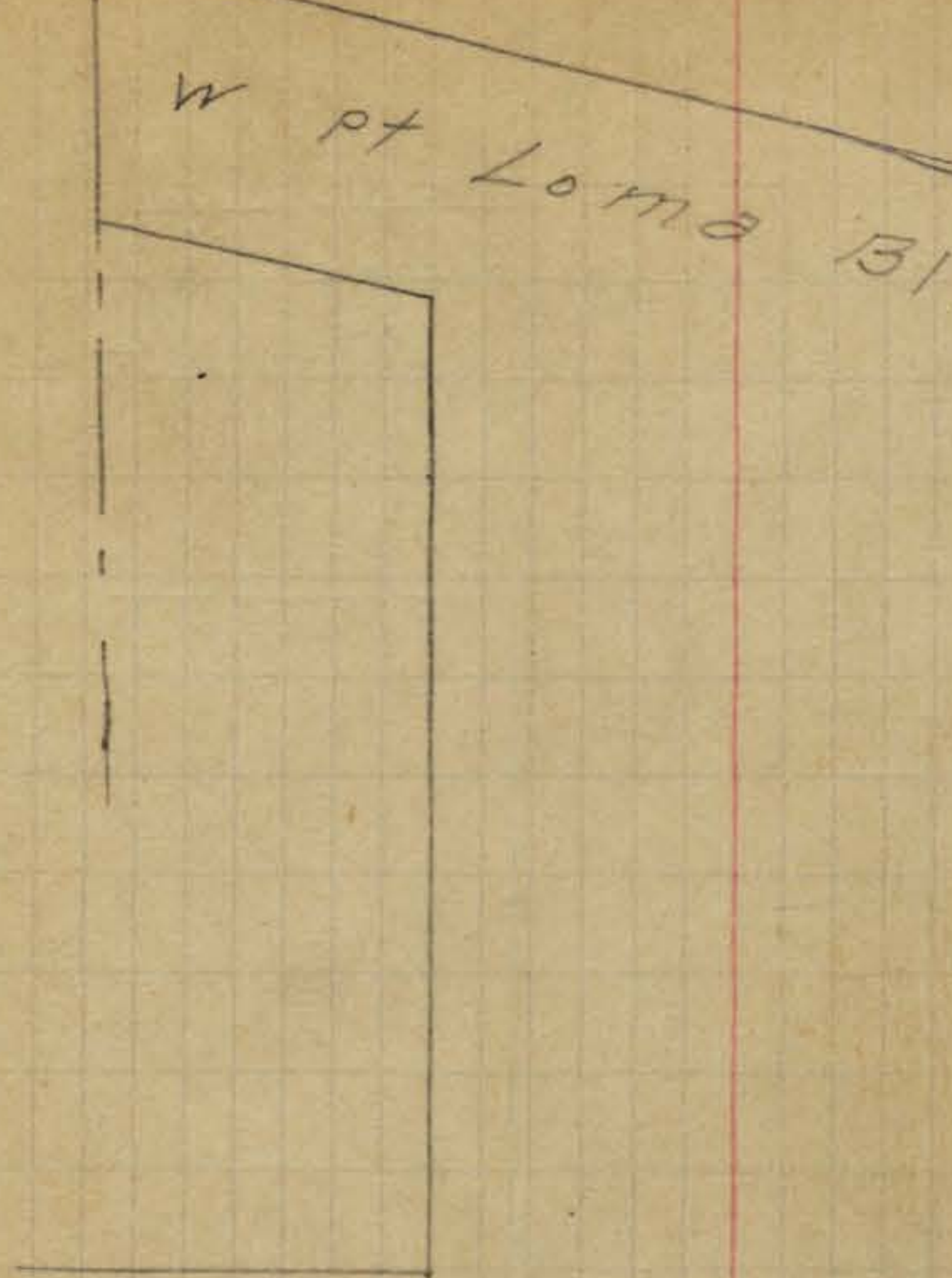
Froude



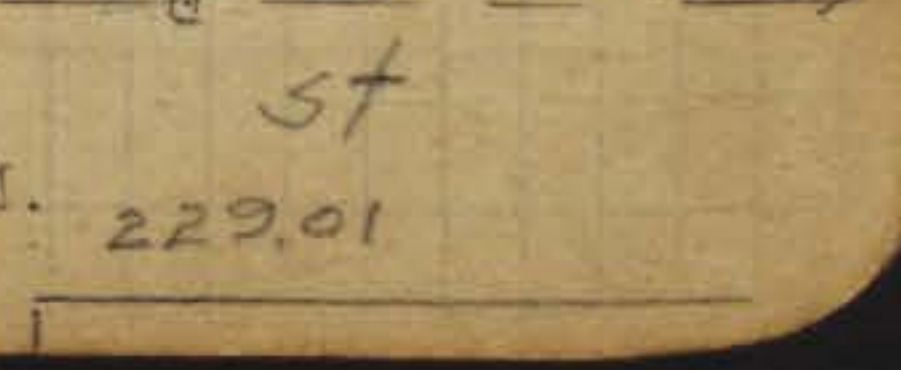
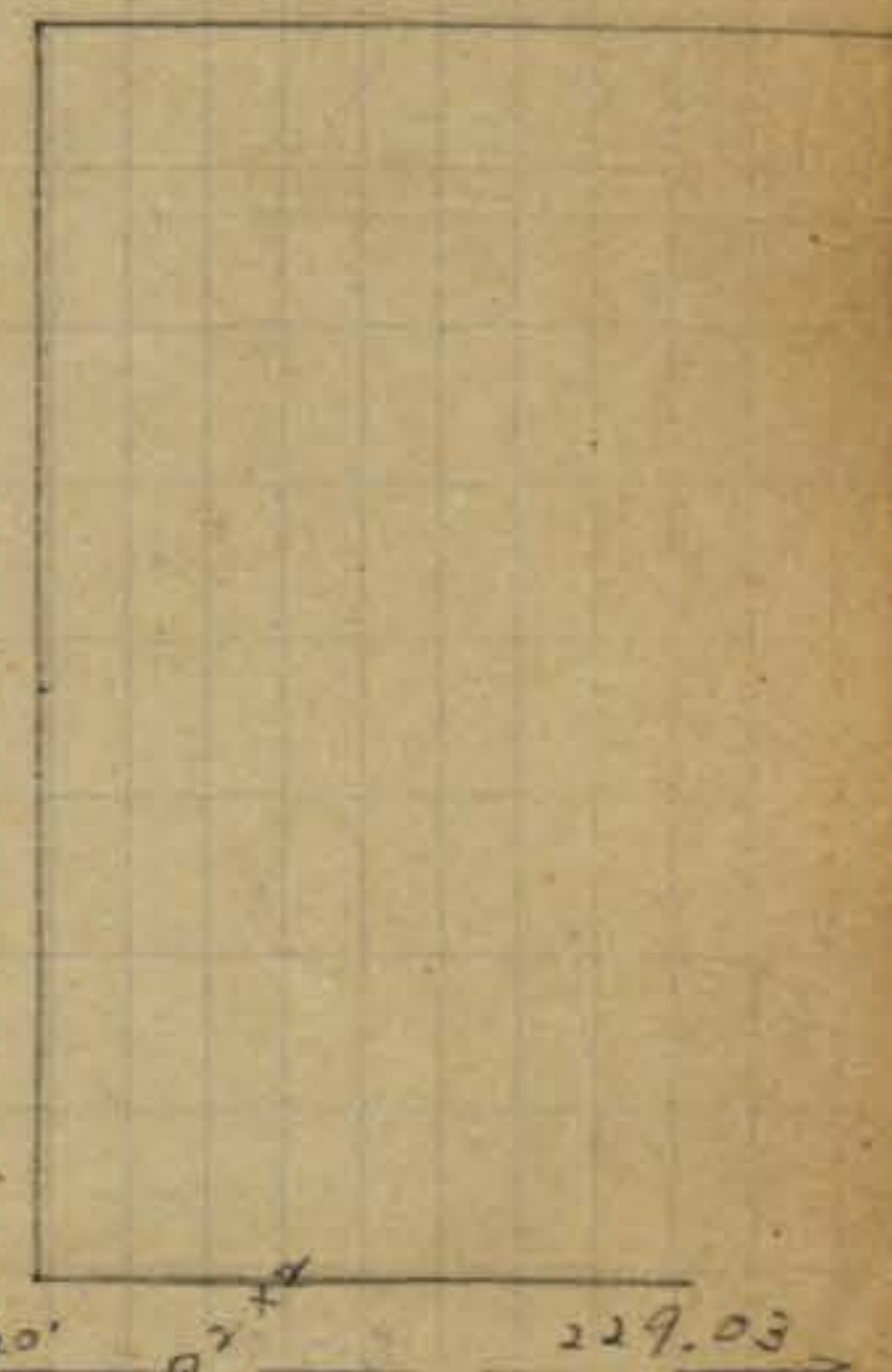
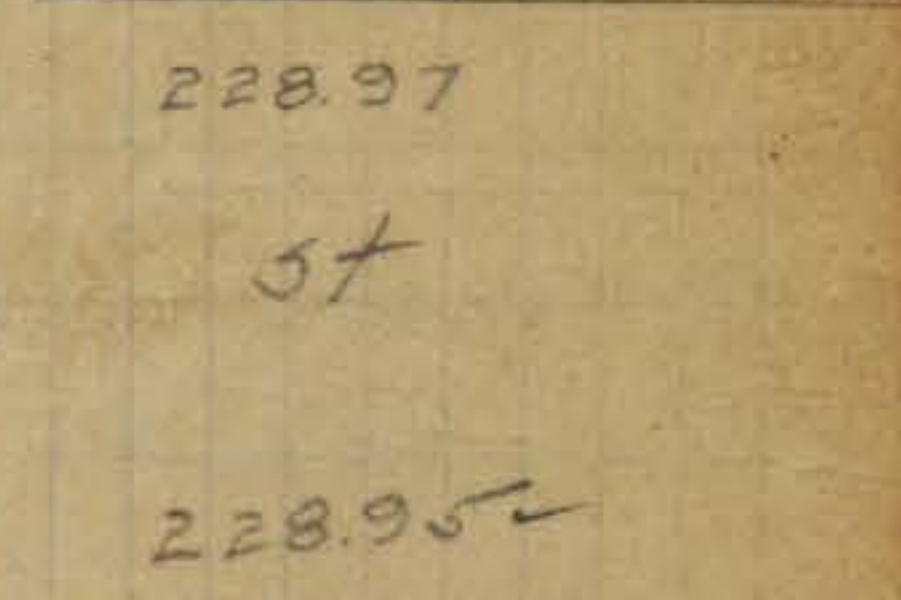
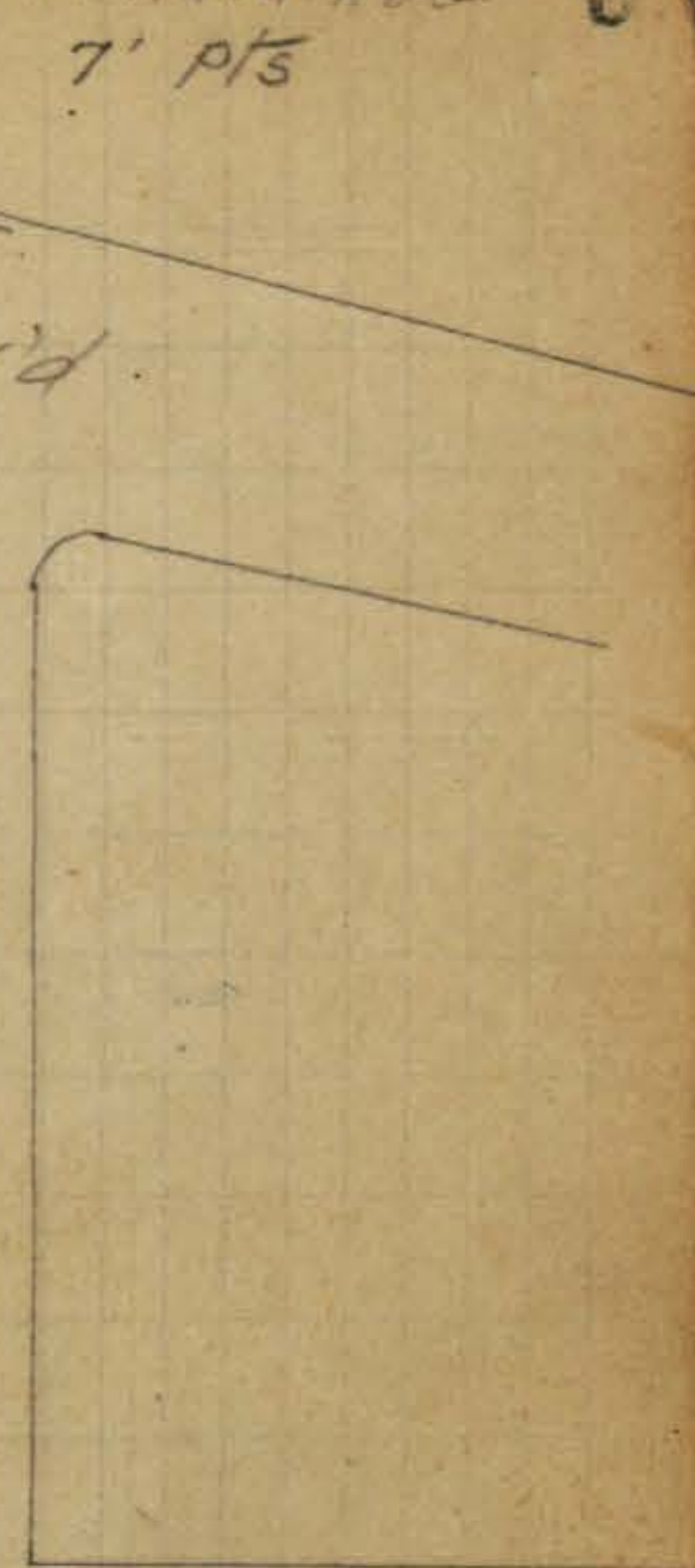
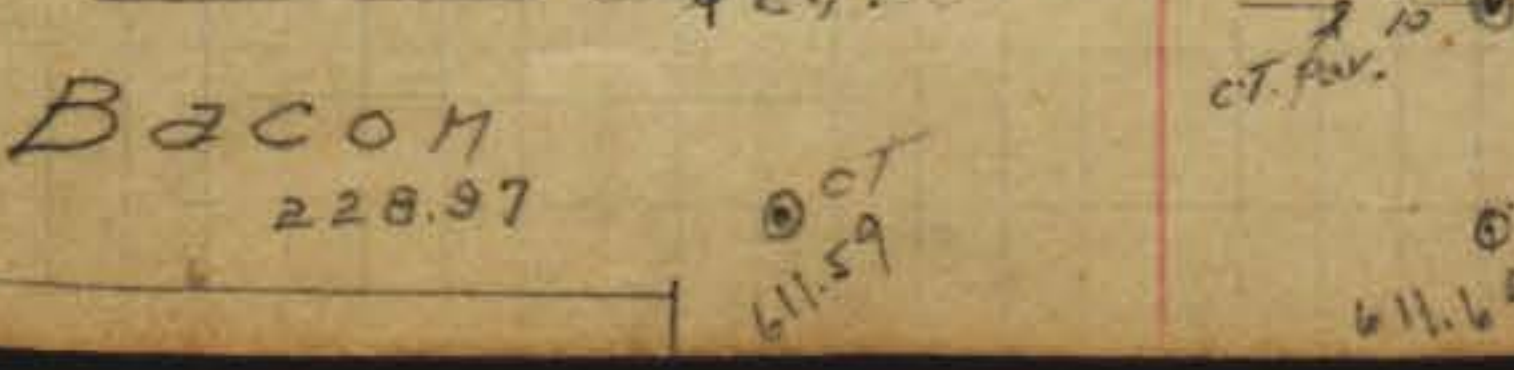
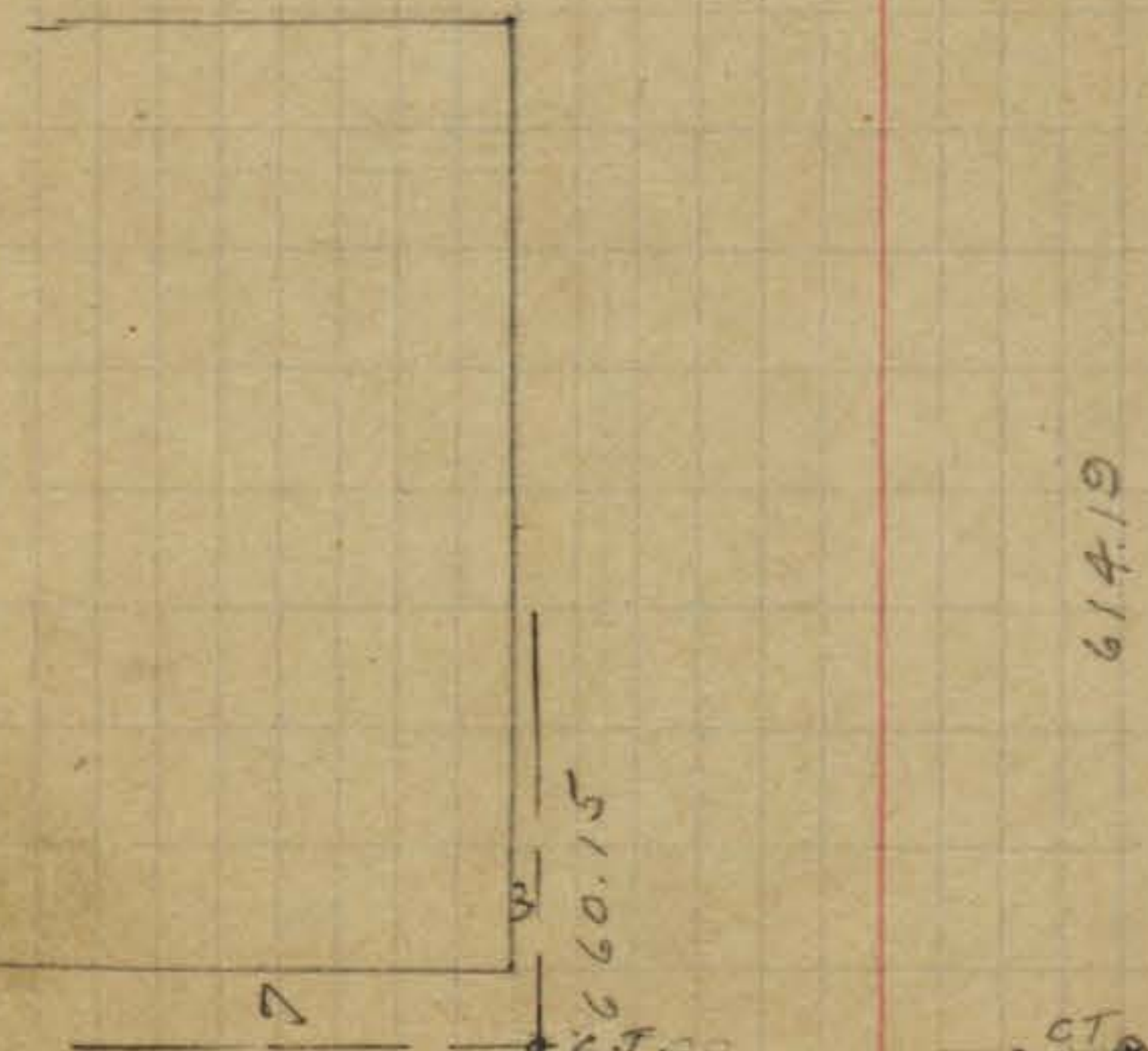
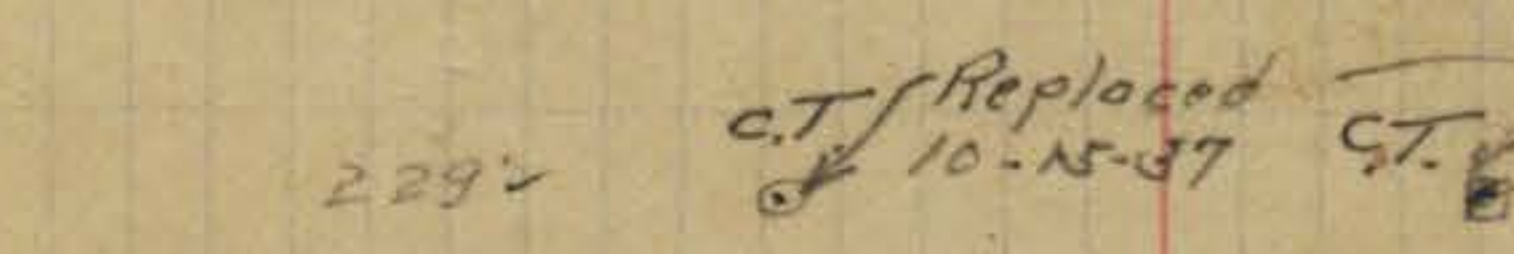
4620  
1400

Muir Street

0 = cop track  
□ = Rdwd Hub  
7' p/s



Abbott



C.T. Replaced  
10-15-37

Bacon  
228.97

ST  
229.01

Muir

St.

229.09  
Cable

228.94  
Street

229.08  
614.11

228.92  
614.17

229.04  
De Foc

228.93  
St

229.10  
614.04

228.94  
614.04

229.03  
Ebers

St

Muir

St

229.03  
Ebers

228.97  
St

229.02  
613.90

228.95  
613.97

229.04  
Froude

215.94  
St

229.03  
611.92

217.89 211.90  
197.25  
612.00

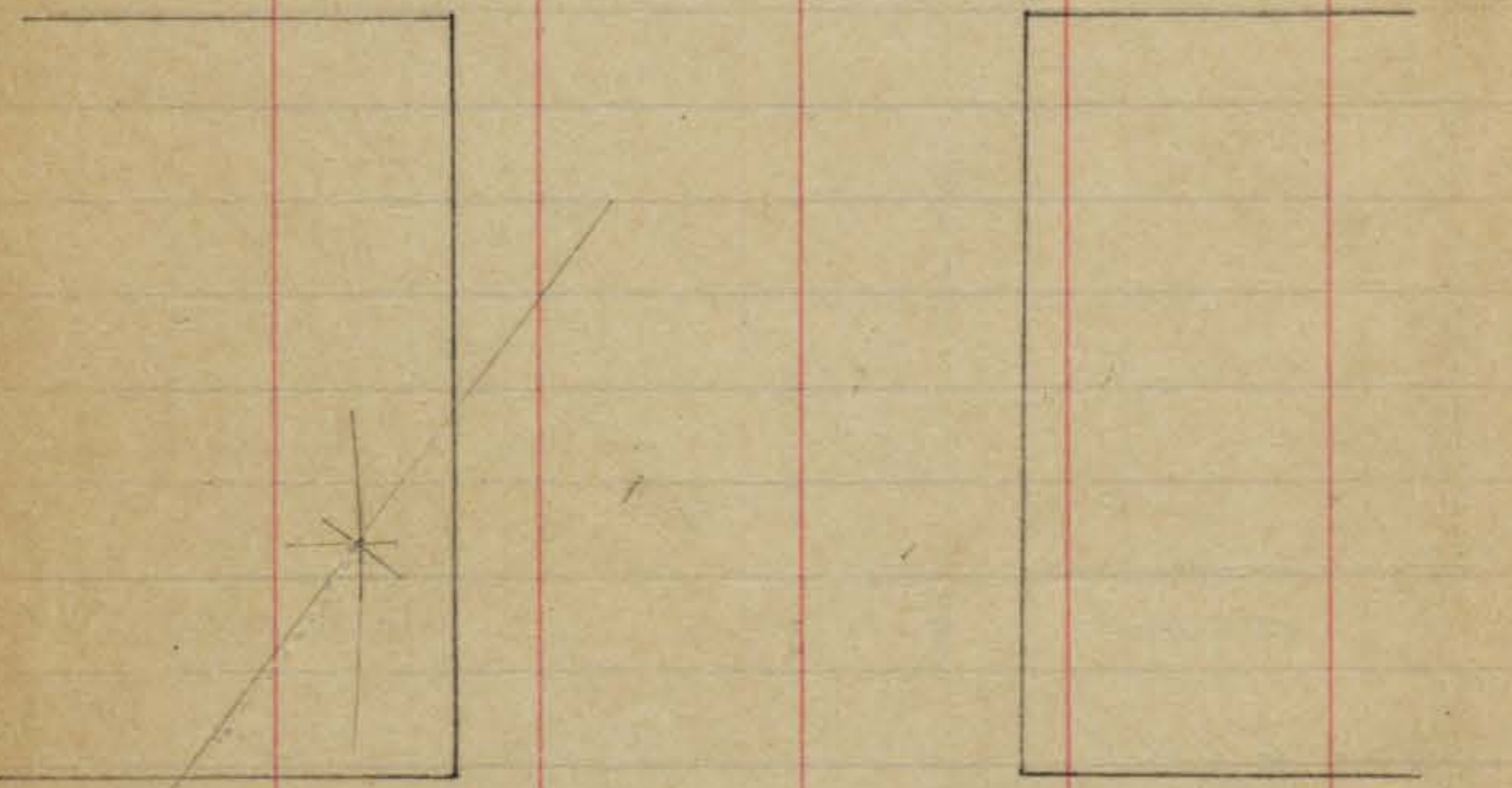
228.98  
Guitot

203.18  
St  
203.20  
50



o = cop tack  
 □ = Road Hub Long Branch Ave  
 7' PTS

Spray st



229.04

265.02 to N 7' PT Muir st,

Abbott

st

229.09

229.00

61417

61418

o cop tack in cement of drop storm sewer

chisel cuts in sidewalk

61419

st

229.09  
Bacon

Long Branch Ave

7' 6"

Bacon

st



229.11

228.97

229.14

229.09

Cable

st

229.18

229.08

61163

61178

61163

61178



229.11

229.04

De Foe

st

61412

61412

Long Branch Ave

229.11 □ CT.

□ 229.04

De Foe

st

229.15 □ CT.

□ 229.10

614.12

614.11

229.17 □ CT.

□ 229.03

Egers

st

229.14 □

□ 229.02

613.96

613.98

229.04 □

□ 229.04

Froude

st

229.01 □ CT. Pav

□ CT. Pav

Long Branch Ave

229.04 □

□ 229.04

Froude

st

229.01 □

□ 229.03

611.97

612.04

To 300.7' at Brighton 275.04 □ CT

CTO 228.98

Guizot

st

229.04 □ CT

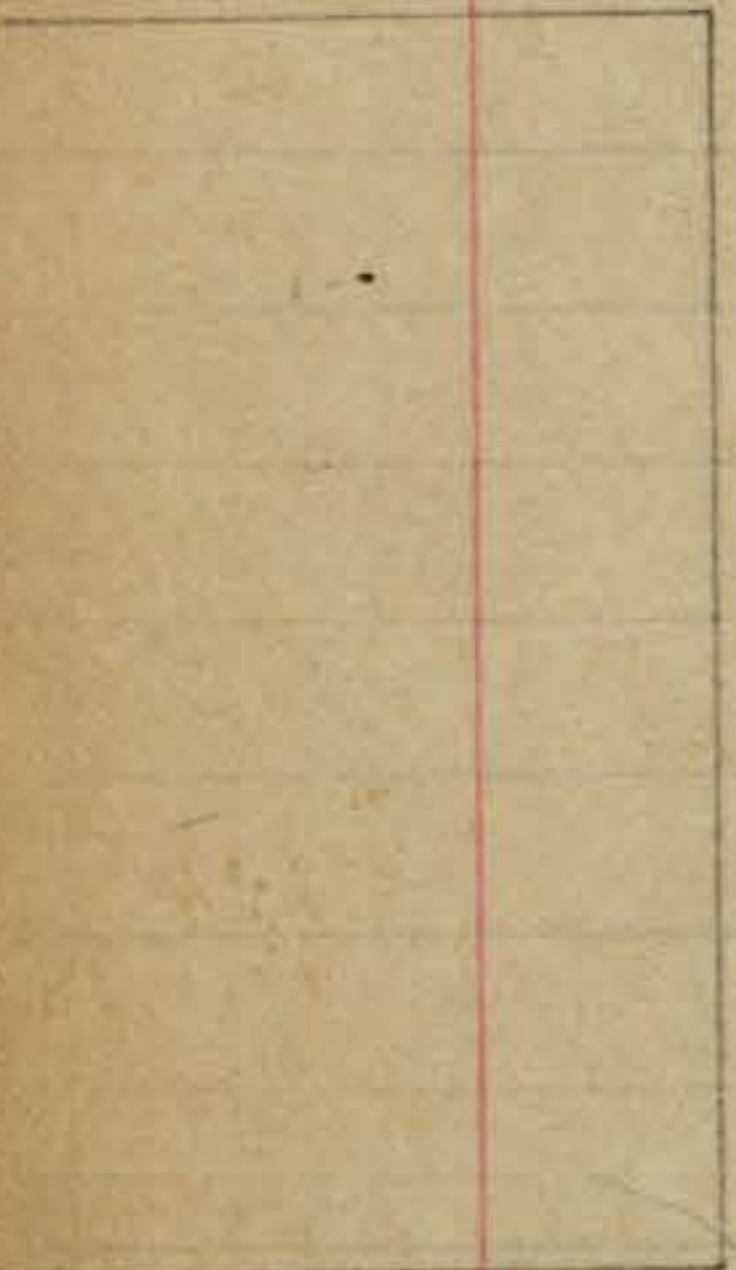
CTO 228.95

Brighton Ave

o = COP Tack  
□ = Rdwd Hub  
7' pts

Spray

st



313.54

o

□

229.04

Abbott

st

313.61

o

o

229.09

614.13

614.16

313.54

□

o

229.11

Bacon

st

Brighton Ave

9

313.54

o

46

229.09

Bacon

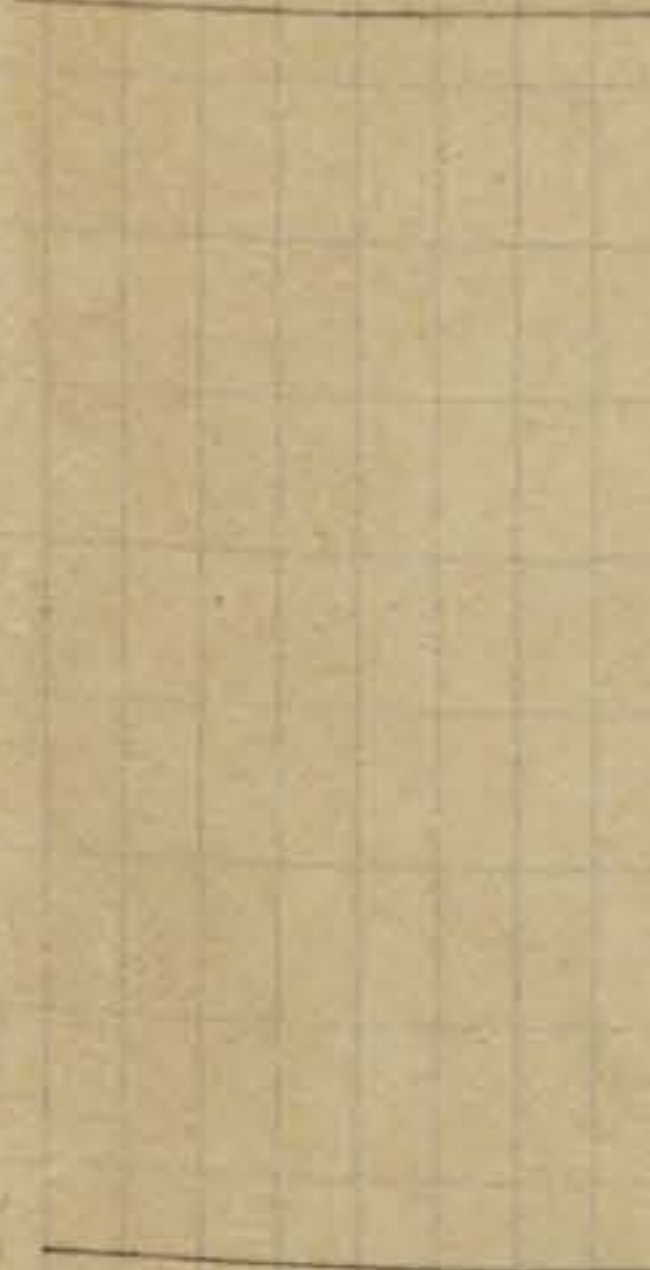
st

313.54

□

□

229.11



613.51

611.69

313.48

o

1.85'

□

229.14

Cable

st

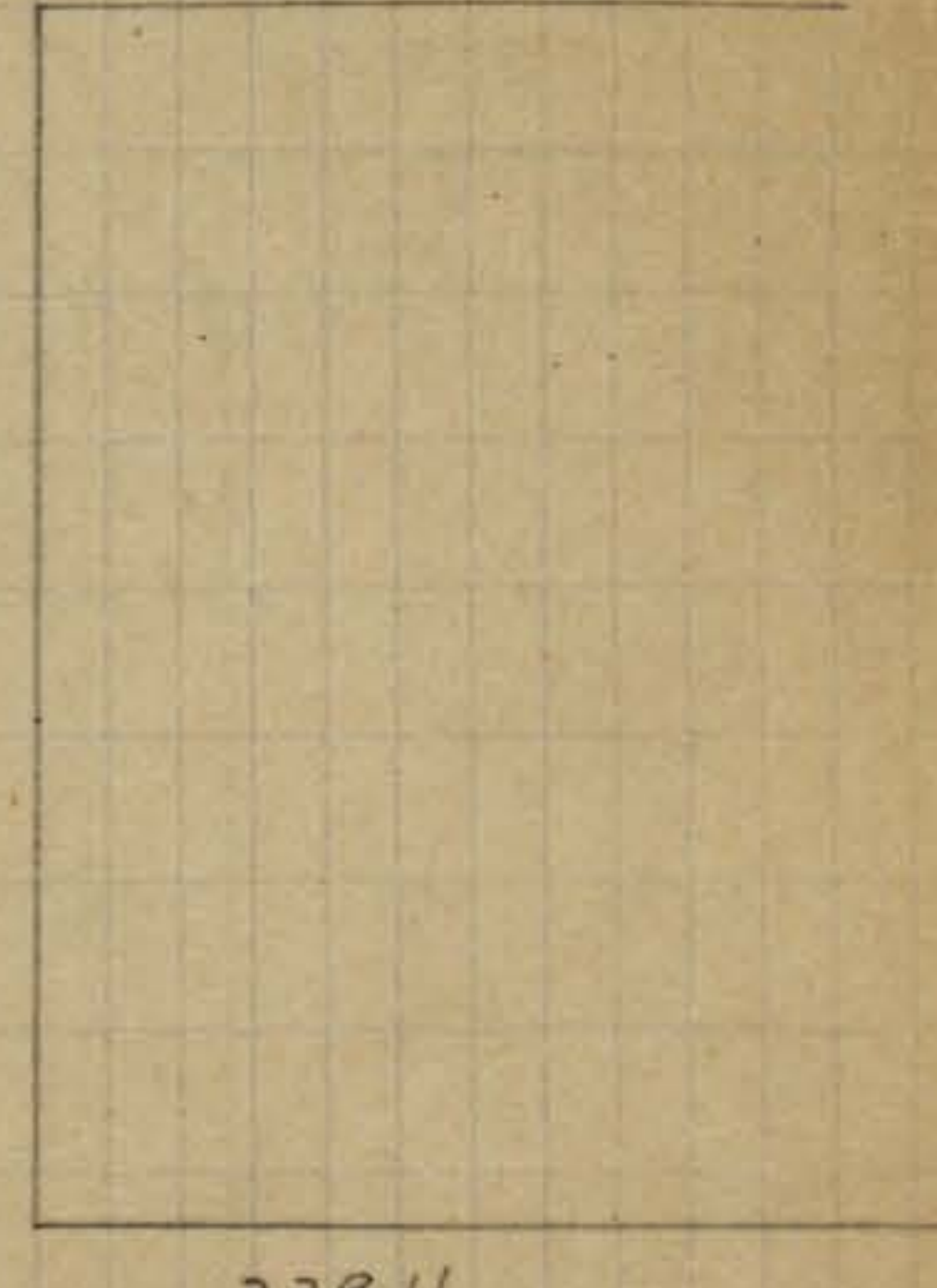
313.47

□

1.85'

□

229.18



613.48

614.12

313.54

o

1.22'

□

229.11

De Foe Sunset Cliffs Blvd

st

Brighton Ave

313.49

51.22

229.11

st

313.54

51.22

229.15

613.26

613.97

229.17

313.49

40.42

st

229.14

313.50

40.42

613.53

614.00

313.49

229.04

st

Froude

Brighton

18

313.49

613.53

614.00

229.04

Froude

st

CT

9

229.01

611.95

313.55

CT

CT 275.04

Guizot

311.15

7

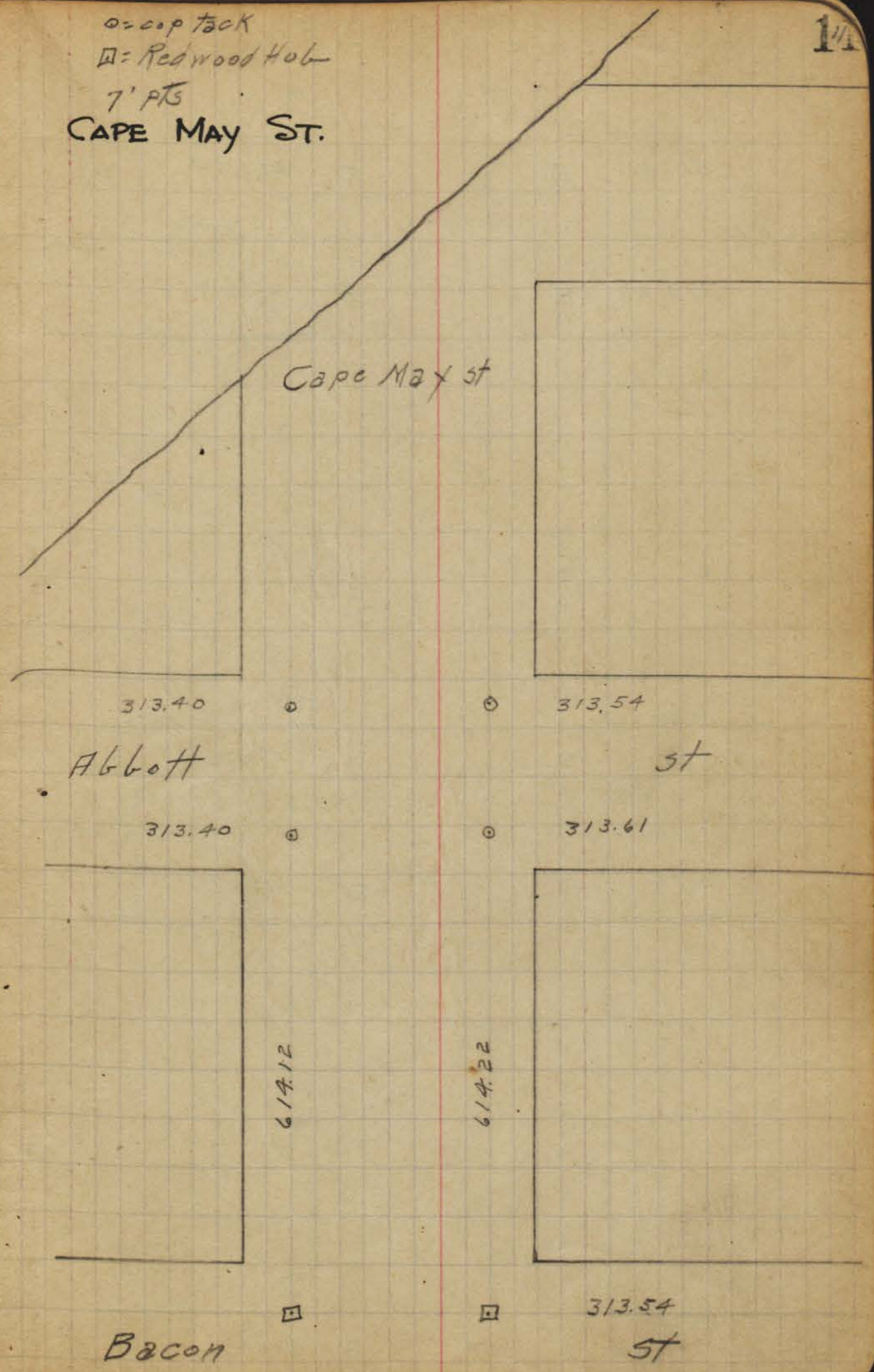
CT 10

CT 228.95

50

st

o = cap tack  
□ = Redwood Hub  
7' PTS  
CAPE MAY ST.



313.40

313.54

Abbott

st

313.40

313.61

614.12

614.22

Bacon

313.54

st

Cape Max st

313.61

□

313.54

□

Bacon

st

313.48

□

313.54

□

613.67

613.57

313.55

□

313.48

□

Cable

st

313.56

□

313.47

□

613.51

613.51

De Foe 313.64

□

313.49 st

□

Cape Max st

12

313.64

□

313.49

□

Sunset Cliff  
De Foe

st

313.66

□

313.54

□

613.20

613.20

313.74

□

313.49

□

Ebers

st

313.77

□

313.50

□

613.24

613.18

Froude

□

st

□

Cape May st

313.99

Froude

□

313.49

st

□

□

□

612.08

612.06

313.97

Guizot

□

□

313.55

st

313.94

□

2.40

□

2.40

311.15

○ = Copper Back

□ = Redwood Hub

7' PTS

1954

Saratoga st

INDEXED  
JER  
DEC 1 1954

57' pt of Est. Monica

← 379.08

313.40

Abbott

313.08

st

313.40

614.06

614.12

313.25

Bacon

313.22

313.61

st

313.48

613.78

613.76

Saratoga St

613.78

613.76

313.38

313.55

Cable

st

313.40

313.56

613.58

613.71

313.55

313.64

Sunset Cliffs Blvd  
De Foe

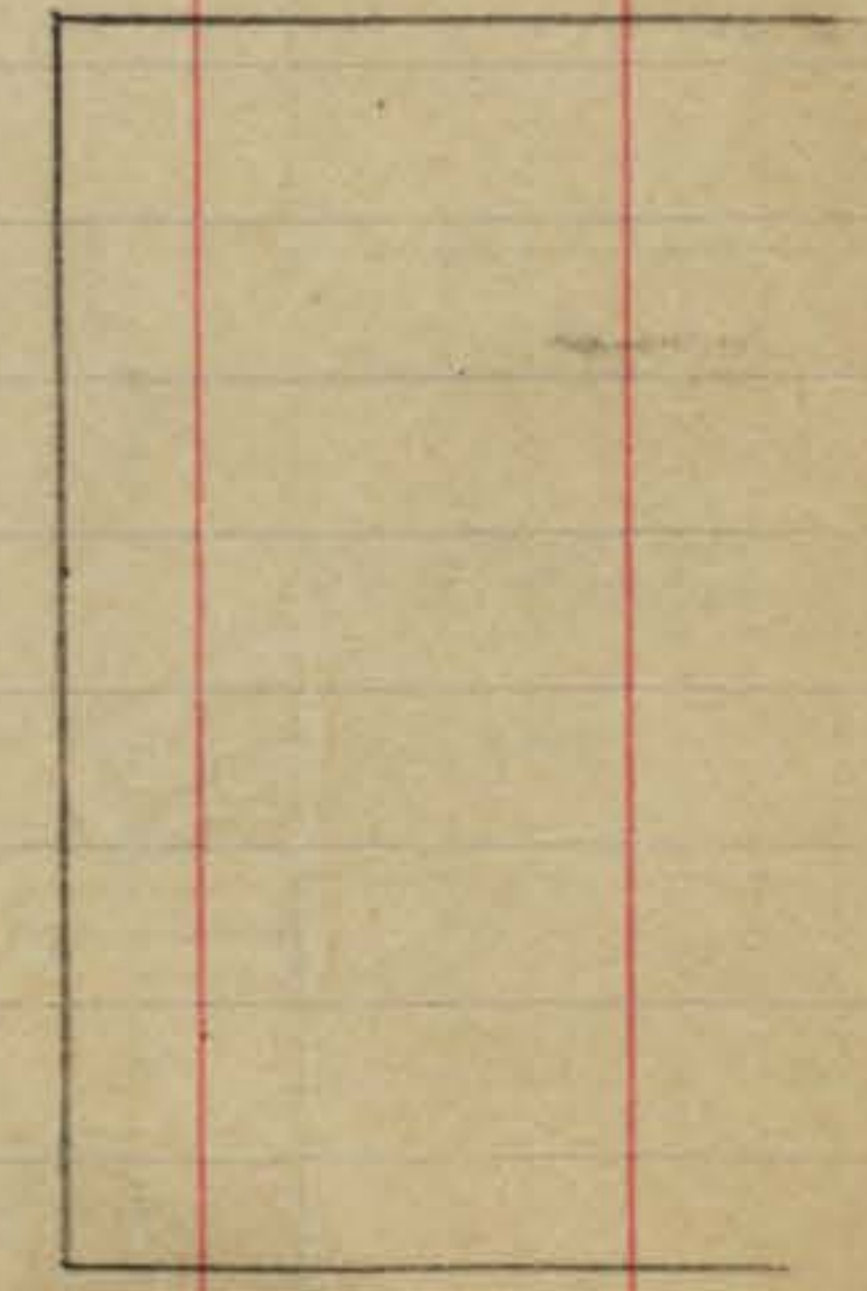
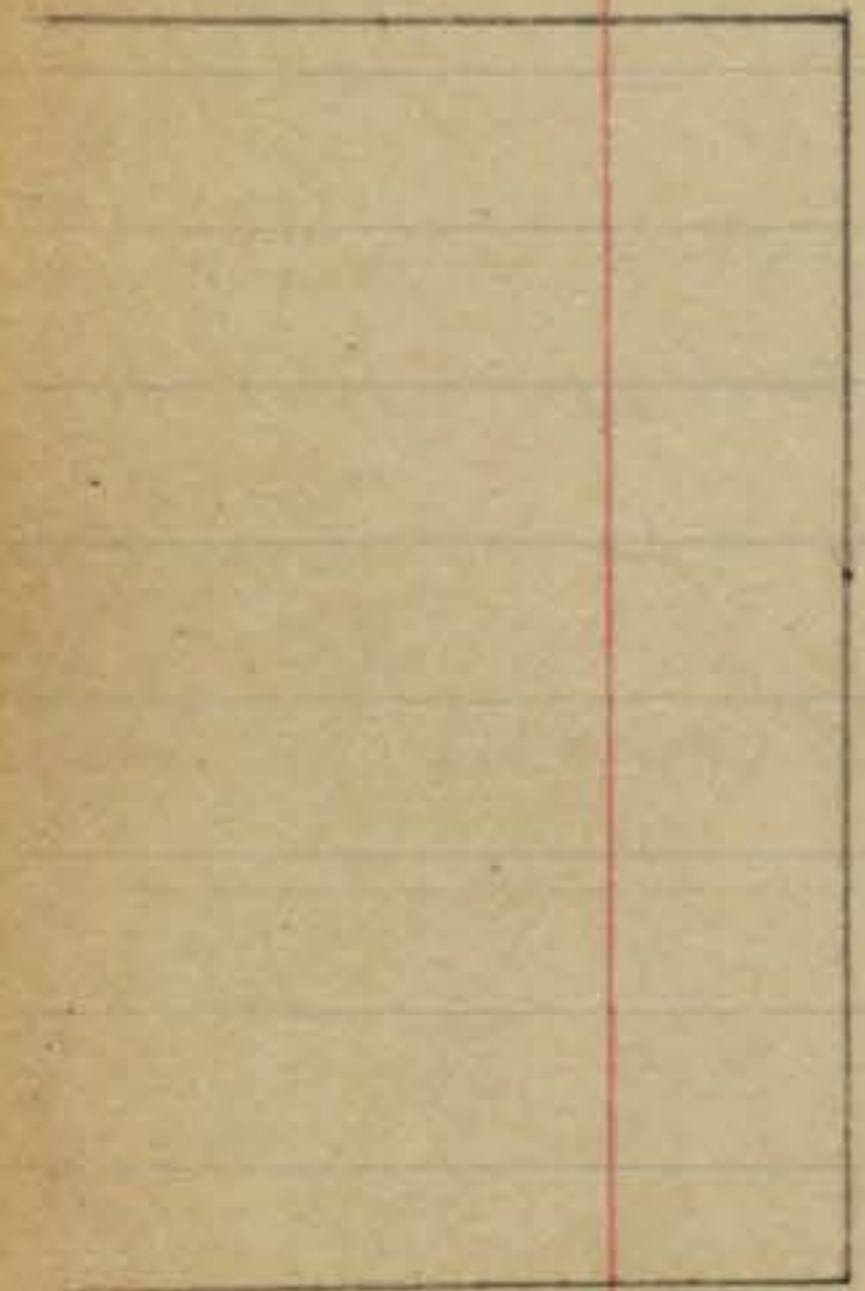
st

313.52

313.66

613.00

613.10



Egers

313.74

st

Saratoga

14

313.73

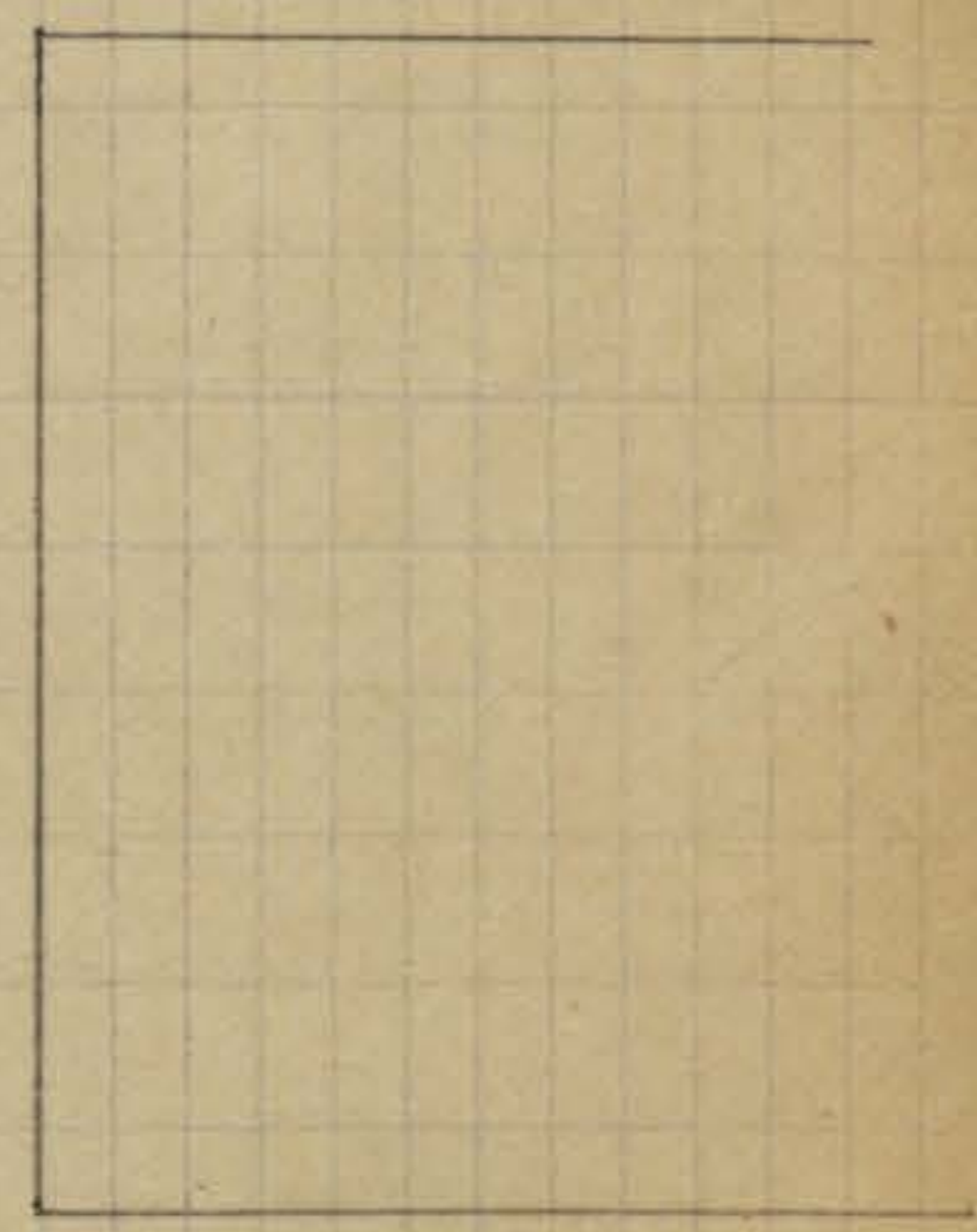
313.74

Egers

st

313.77

313.77

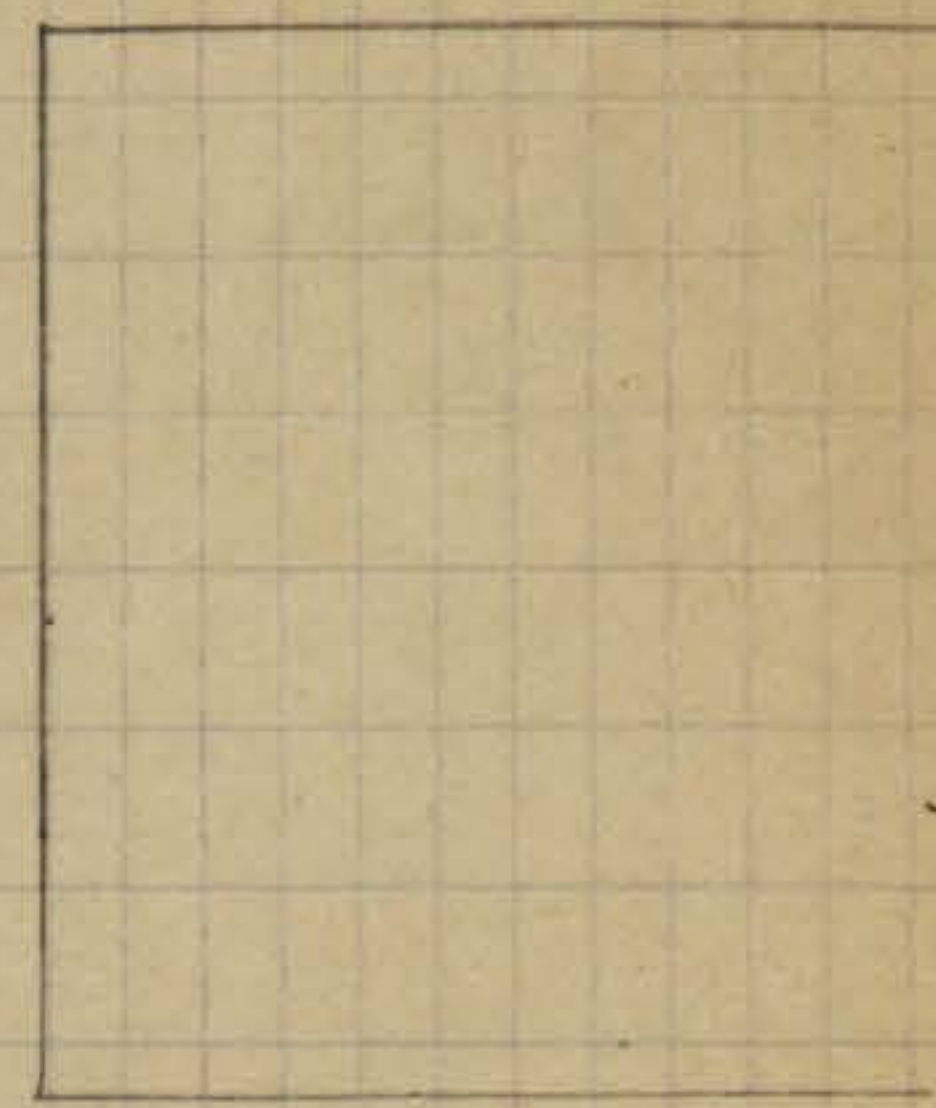
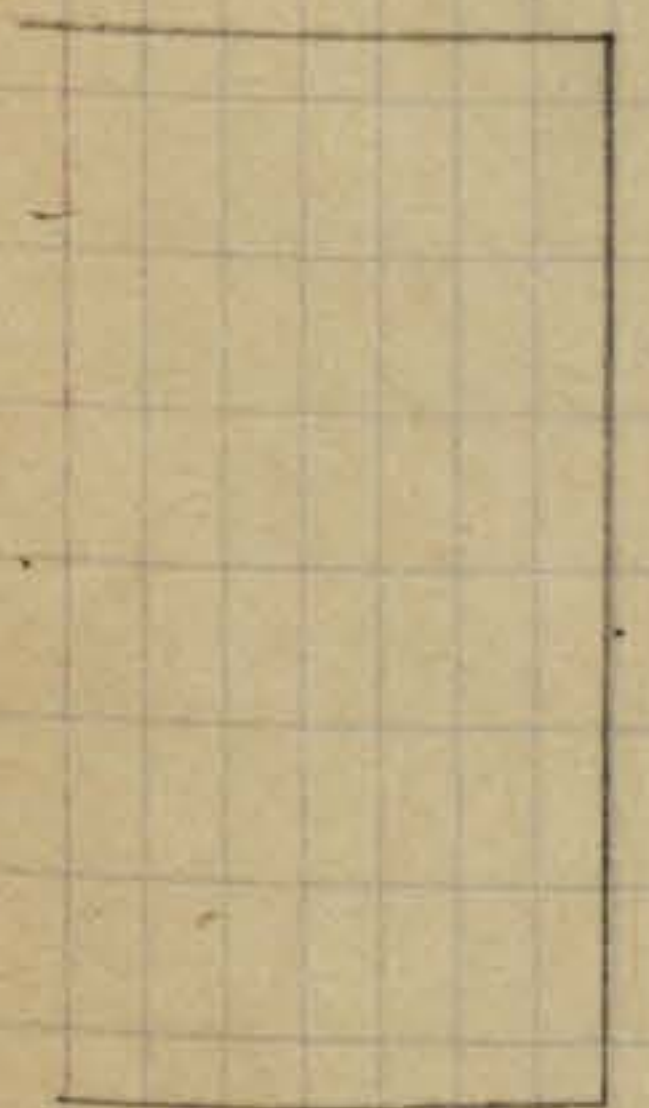


313.98

313.99

Froude

st



313.80

313.97

GUIZOT

st

2.40

313.94

2.40

2.40

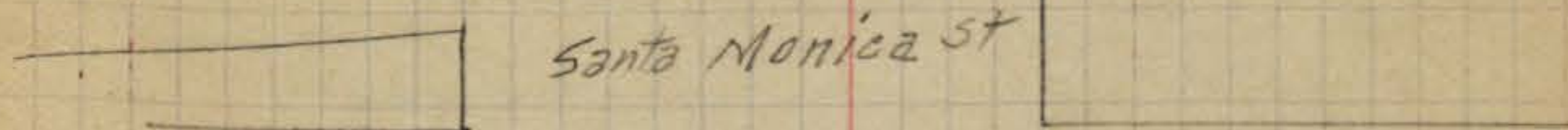


Guizot

Saratoga

Santa Barbara

○ = copper tack  
□ = Adm'd Hug  
7' pts



Santa Monica St

379.08

AGGOTT

St

314.02

313.08



614.11

313.92

Bacon

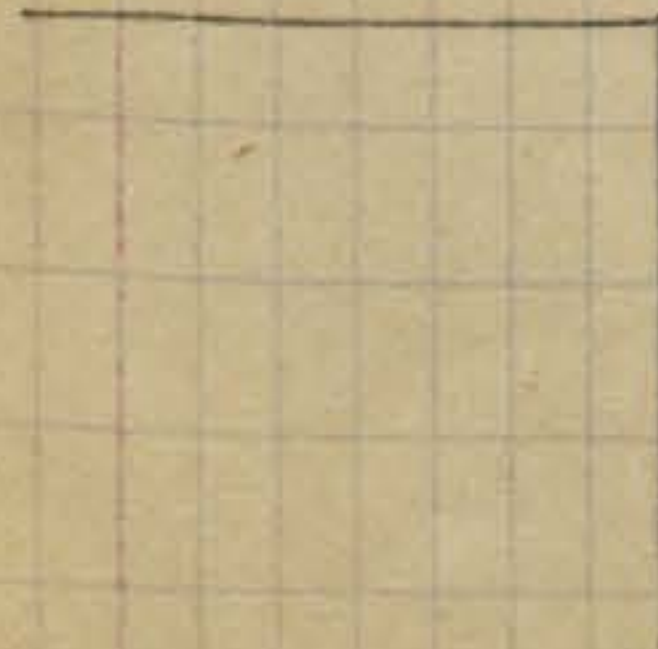
613.99

313.25

St

313.90

313.22



613.74

613.70

613.74  
Santa Monica  
613.70

313.73

Cable

313.75

613.76

613.60

313.38

st

313.40

313.76  
South of  
De Foe

313.72

613.11

613.02

313.55

st

313.52

Ebers

313.73  
st

santa Monica

10

313.75

Ebers

313.68

313.63

Froude

GUIZOT

612.97

612.97

612.97

2.20

313.73

st

313.77

612.97

313.98

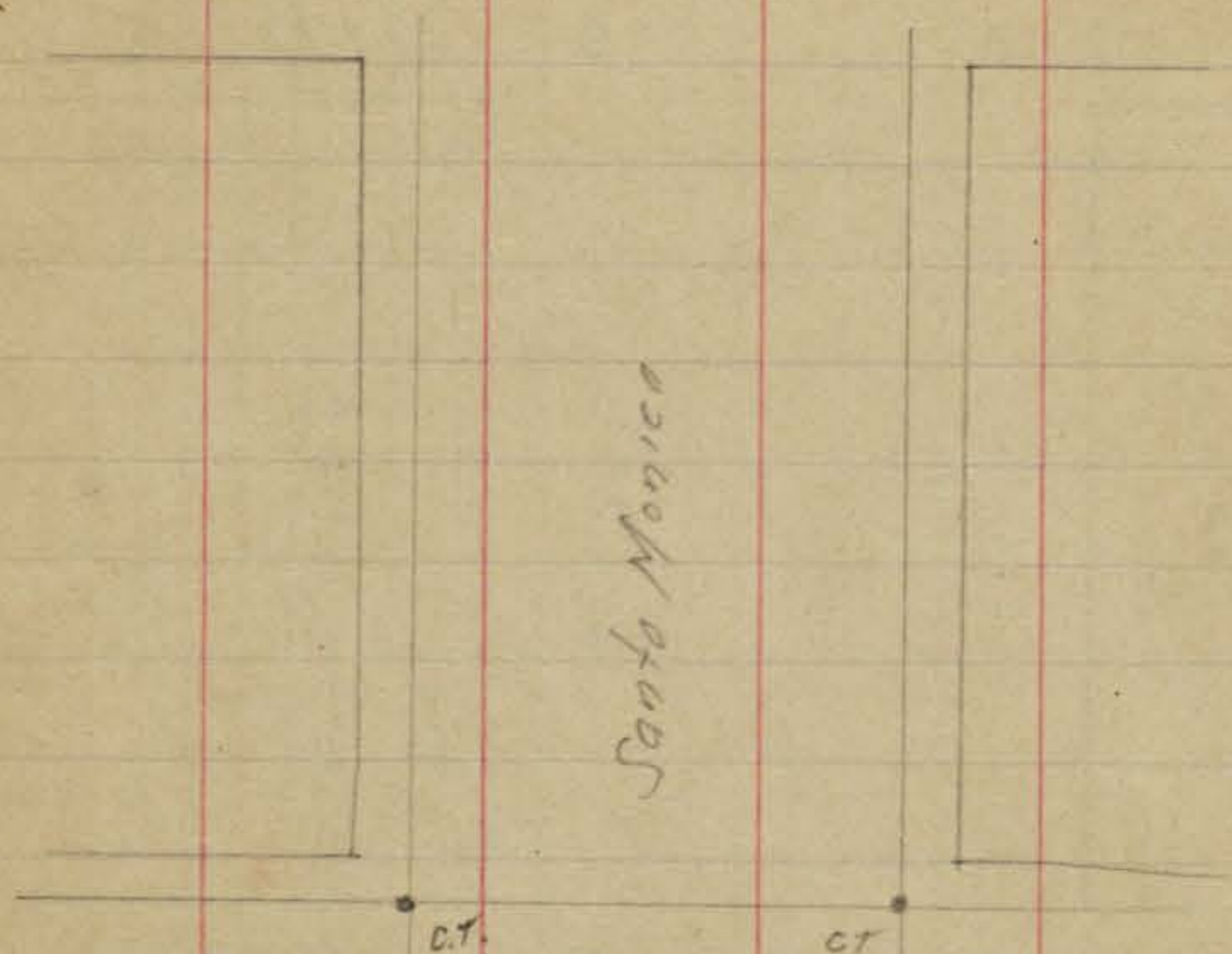
st

st

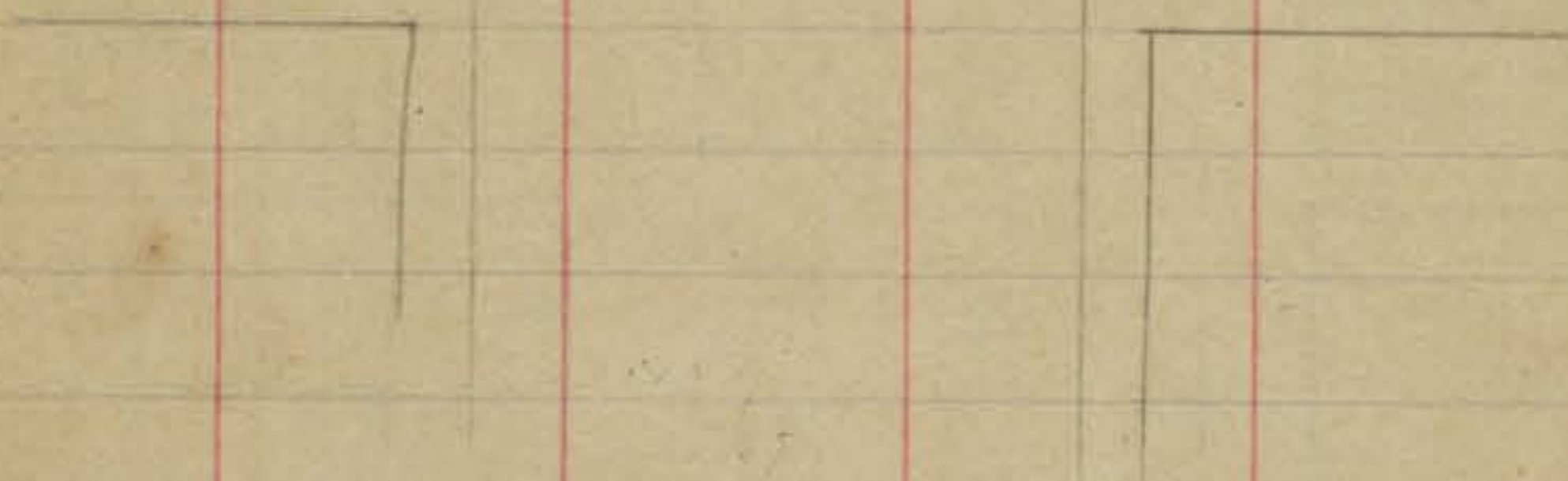
2.20

○ = Copper tag  
 □ = Redwood hub  
 7' pts

Guizot



Santo Barbara



Abbott



Bacon



Cable

313.67

St

314.02

Newport St.

613.94

313.92 313.89

St

313.90

613.72  
613.80

90'00"

ct 313.84 7-30

313.73

313.78

St

Tie St.

Newport St

313.67

313.73

Cable

St

313.64

313.75

613.67

613.74

313.23

313.76

Sunset Ct. H. & L. D.

De Foe

St

313.23

313.72

612.95

612.96

312.89

313.75

Egers

St

Newport St

312.89

313.75

18<sup>8</sup>

Egers

St

312.90

313.68

612.99

613.00

312.43

313.63

Froude

St

ct.

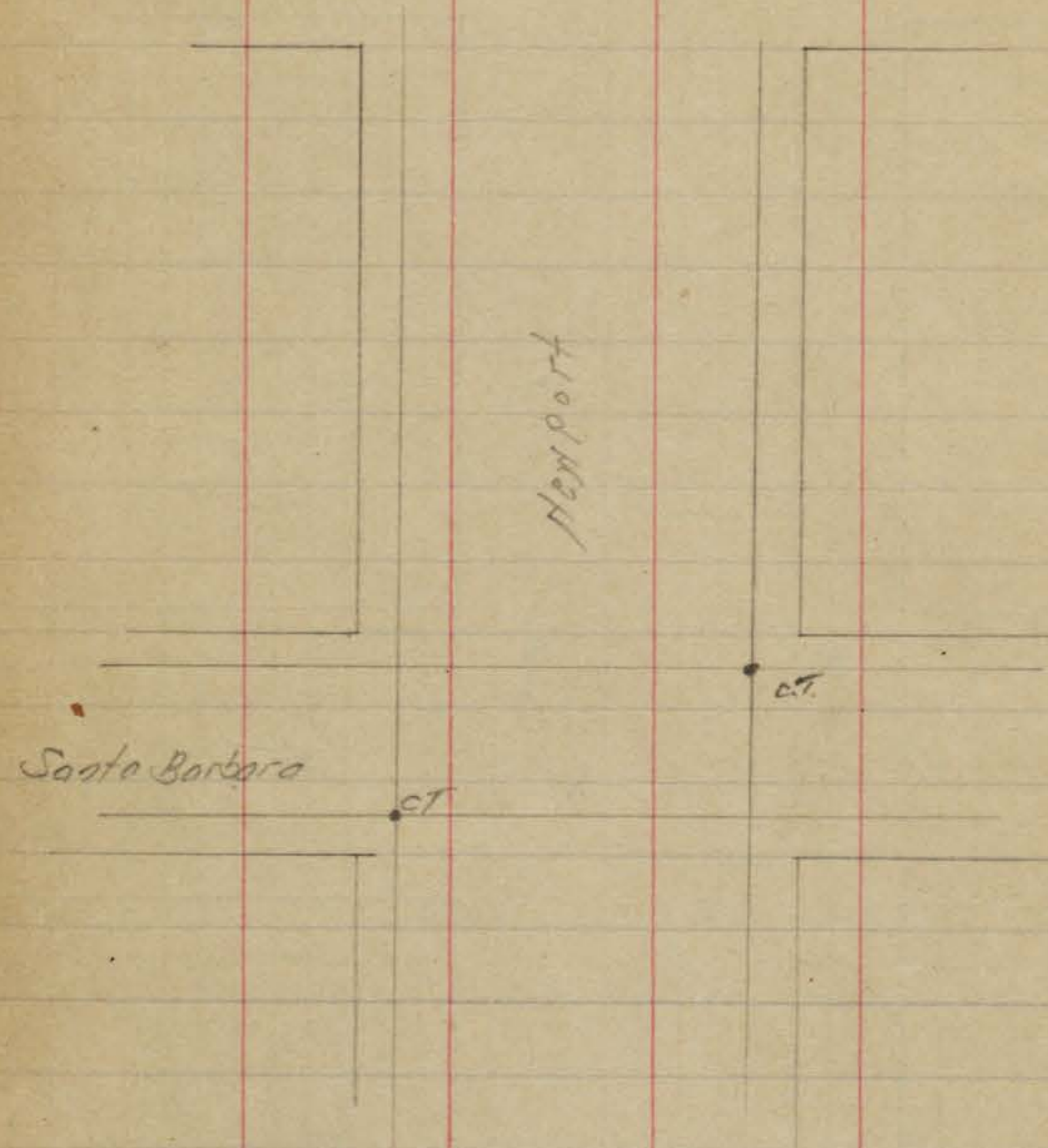
Guizot

St

Guizot

Henport

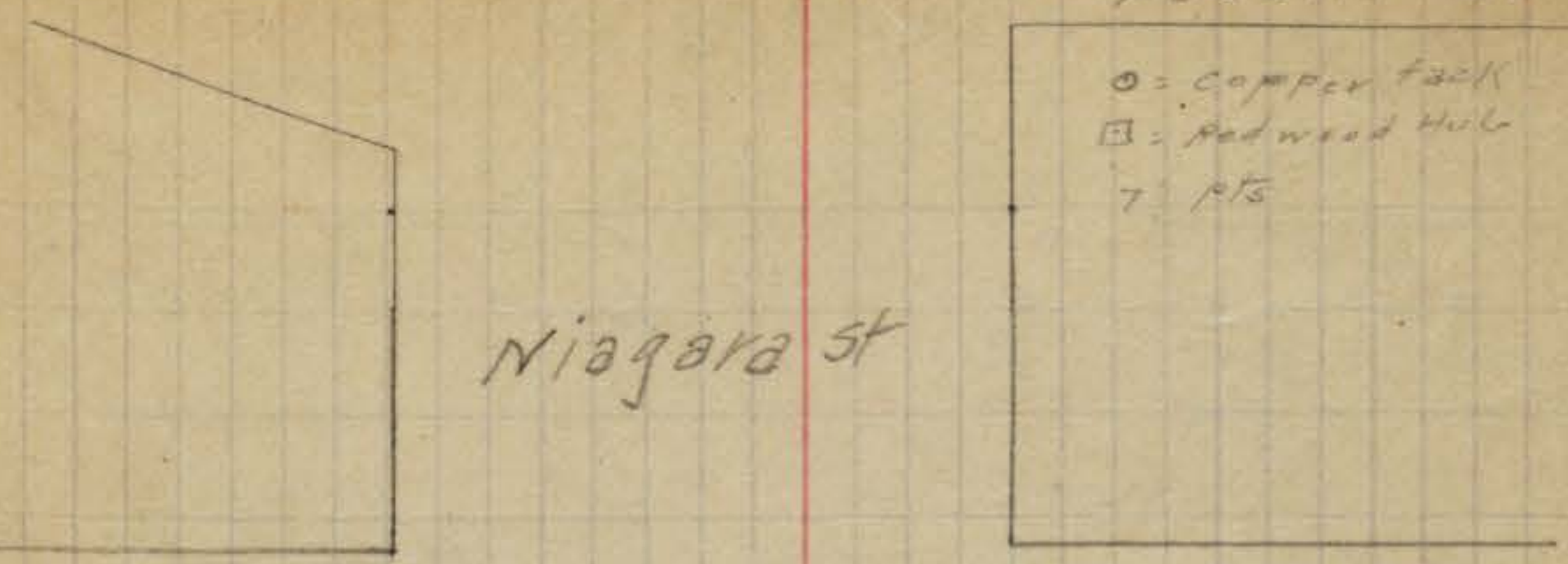
Santa Barbara



Abbott St 189

○ = Copper fact  
 □ = Redwood Hub  
 7 ft

Niagara St



314.00

Bacon

314.01

313.99

Cable

313.99

314.01

St

314.02

313.67

St

313.64

100

100

613.79

100

0.10

613.90

100

100

613.78

100

0.10

613.78

Niagara st

314.03  
Sweet Cliffs Blvd  
De Foe

314.04

314.08

Egers

314.10

314.22  
Froude

613.90

612.89

613.00

613.78

612.84

613.00

313.23

313.23

312.89

312.90

312.43  
St

st

st

st

Niagara st

29

314.22

Froude

312.43

st

Guizot

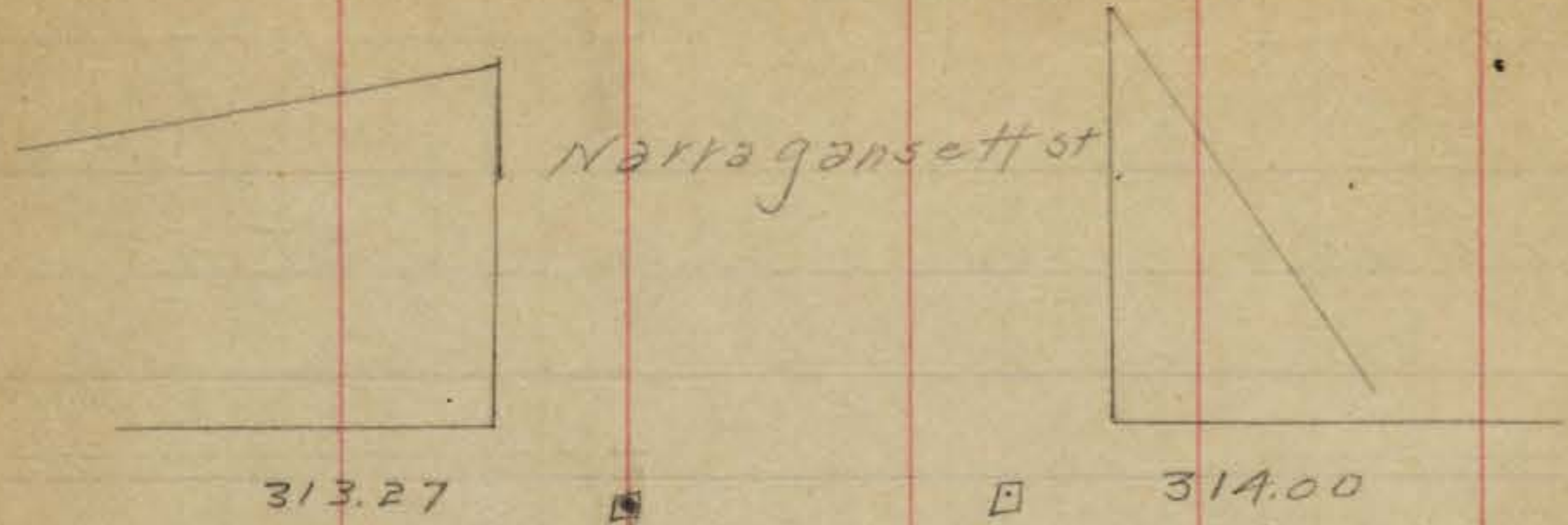
Santa Barbara

CT

CT

CT

CT



313.27

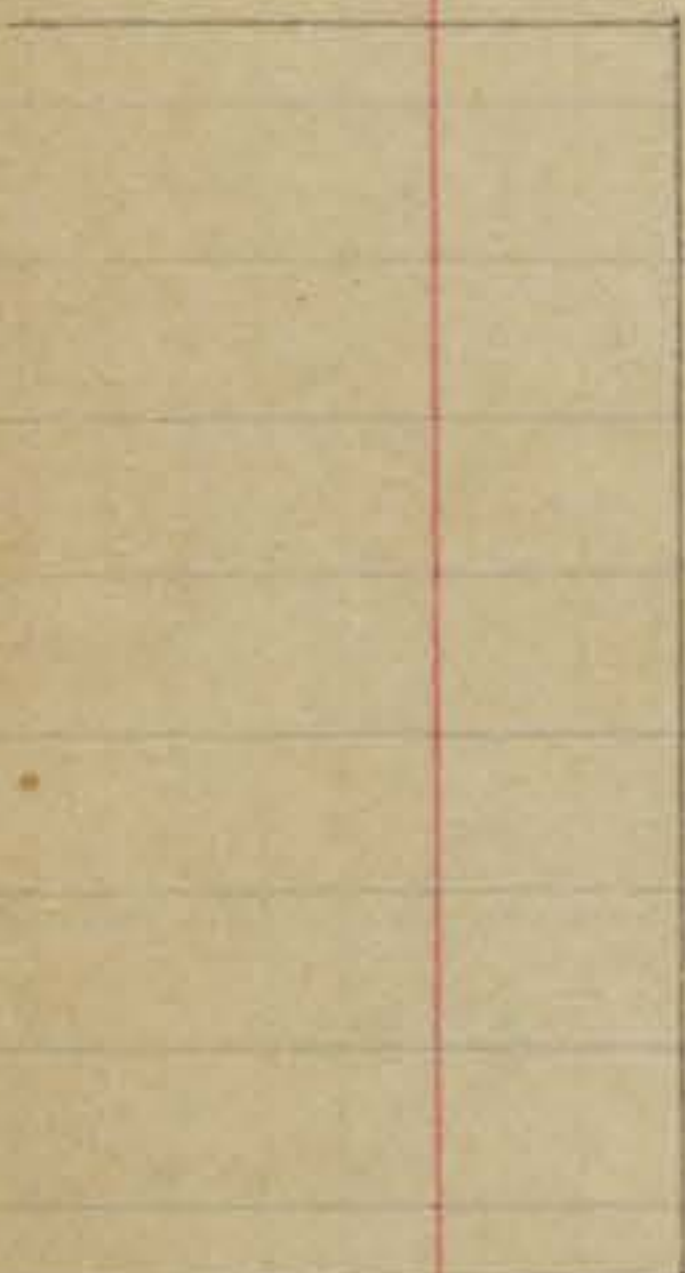
314.00

Bacon

313.30

314.01

St



313.53

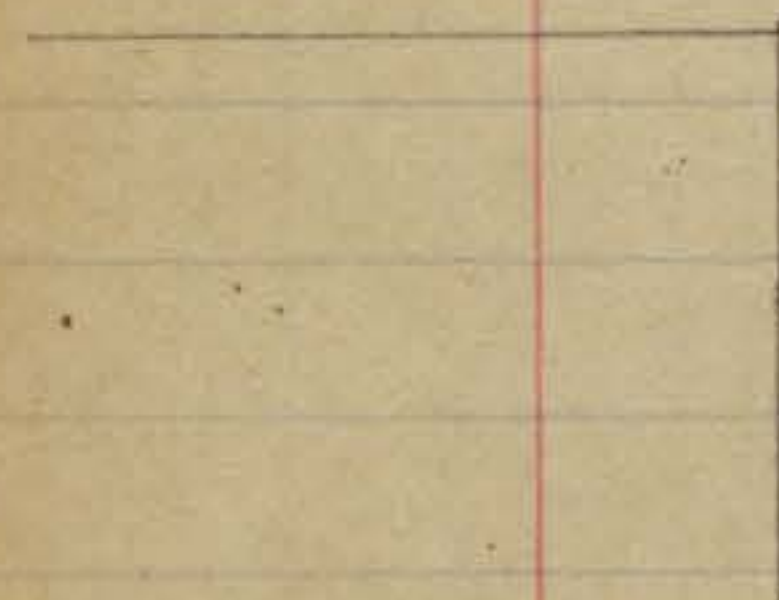
313.99

Cable

313.48

314.01

St



313.65  
Sussex Ct  
De Foe

313.62



313.73

Ebers

313.73



313.91  
Froude

613.91

613.89

314.03

St

X-Cross in walk. o.k. 2/10/49  
314.04

612.83

612.78

314.08

St

314.10

612.73

612.78

314.22

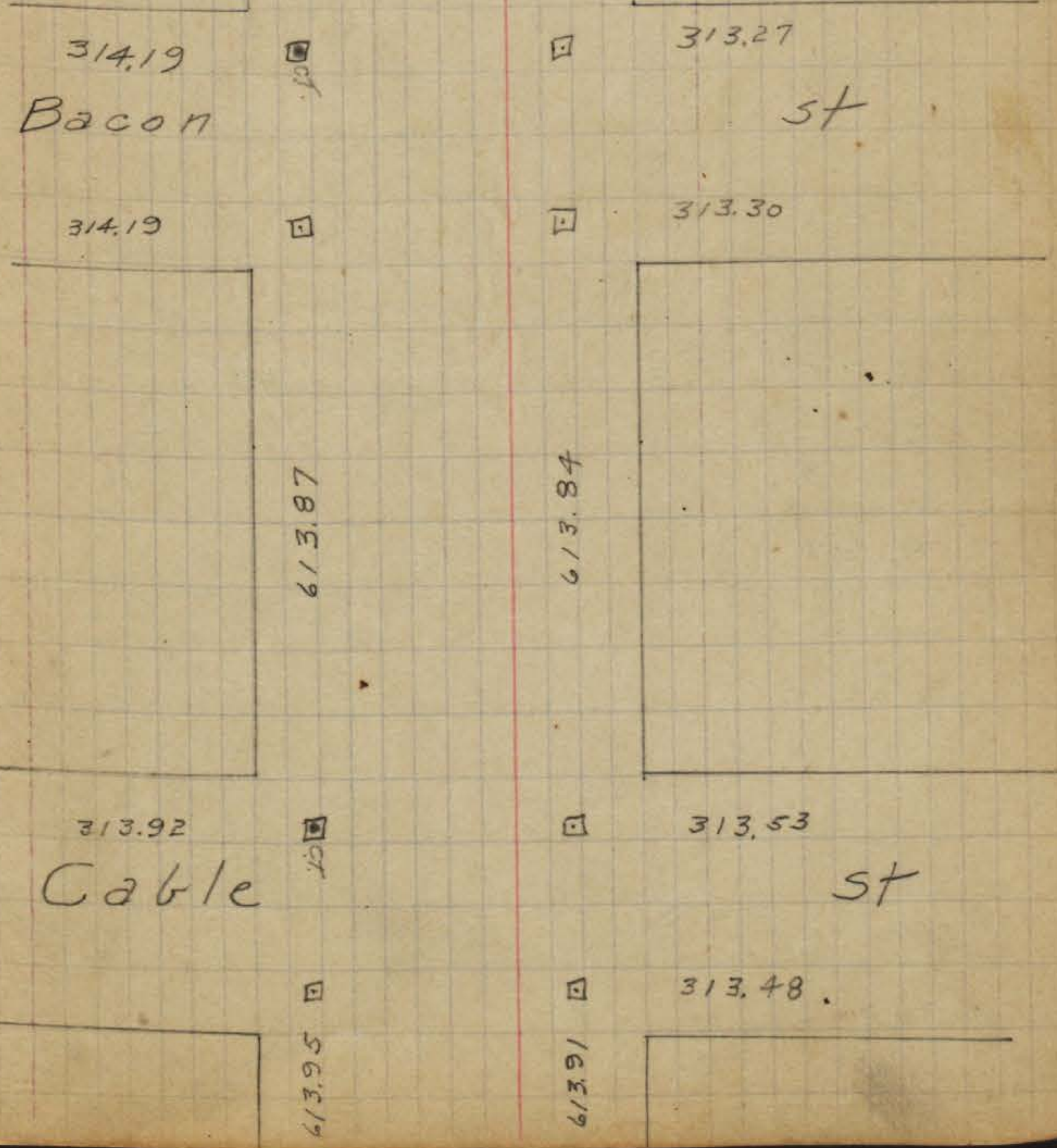
St

Ocean

Pacific

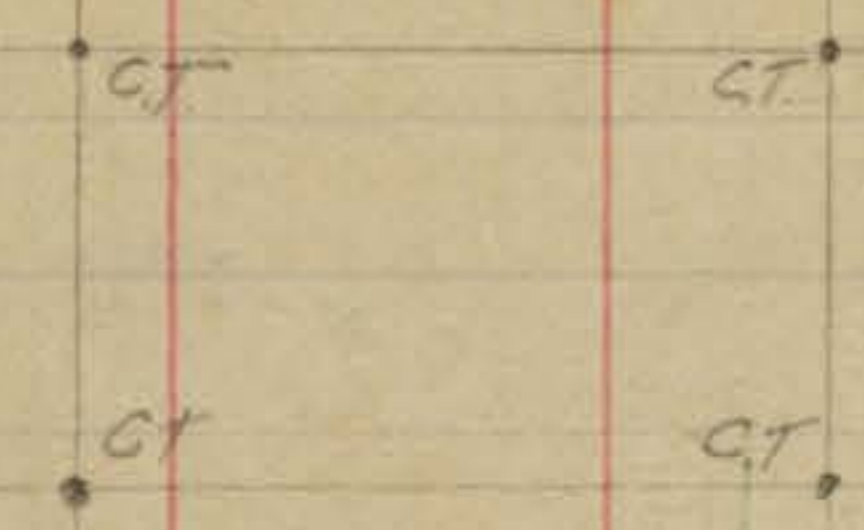
Del Monte Ave

□ = Adirond hub  
7 points



Maropasset

Froude



Guizot



Santa Barbara





Del Monte Ave

De Foe  
500 St Cliffs Blvd

313.69

613.95

ct.

613.91

313.65

st

313.75

612.68

612.63

313.62

313.57

612.68

612.63

313.73

st

Egers

313.57

612.66

612.64

313.73

612.66

612.64

112

23

Froude

313.87

612.66

ct.

612.64

612.64

ct.

313.91

st

Del Monte

Guizot

Guizot

Santa Barbara

Pacific

Ocean



Santa Cruz ARC

Rdwd hub  
7' points

Bacon

314.15

314.19

st

out

314.19

613.85

613.86

313.98

313.92

st

Cable

314.00

313.98

614.24

614.15

313.78

614.24

Santa Cruz ARC

313.69

Sunset Cliffs  
De Foe

313.72

st

313.75

612.73

612.72

313.46

Elers

313.57

st

313.45

Elers

313.57

612.47

612.45

313.20

Frode

313.37

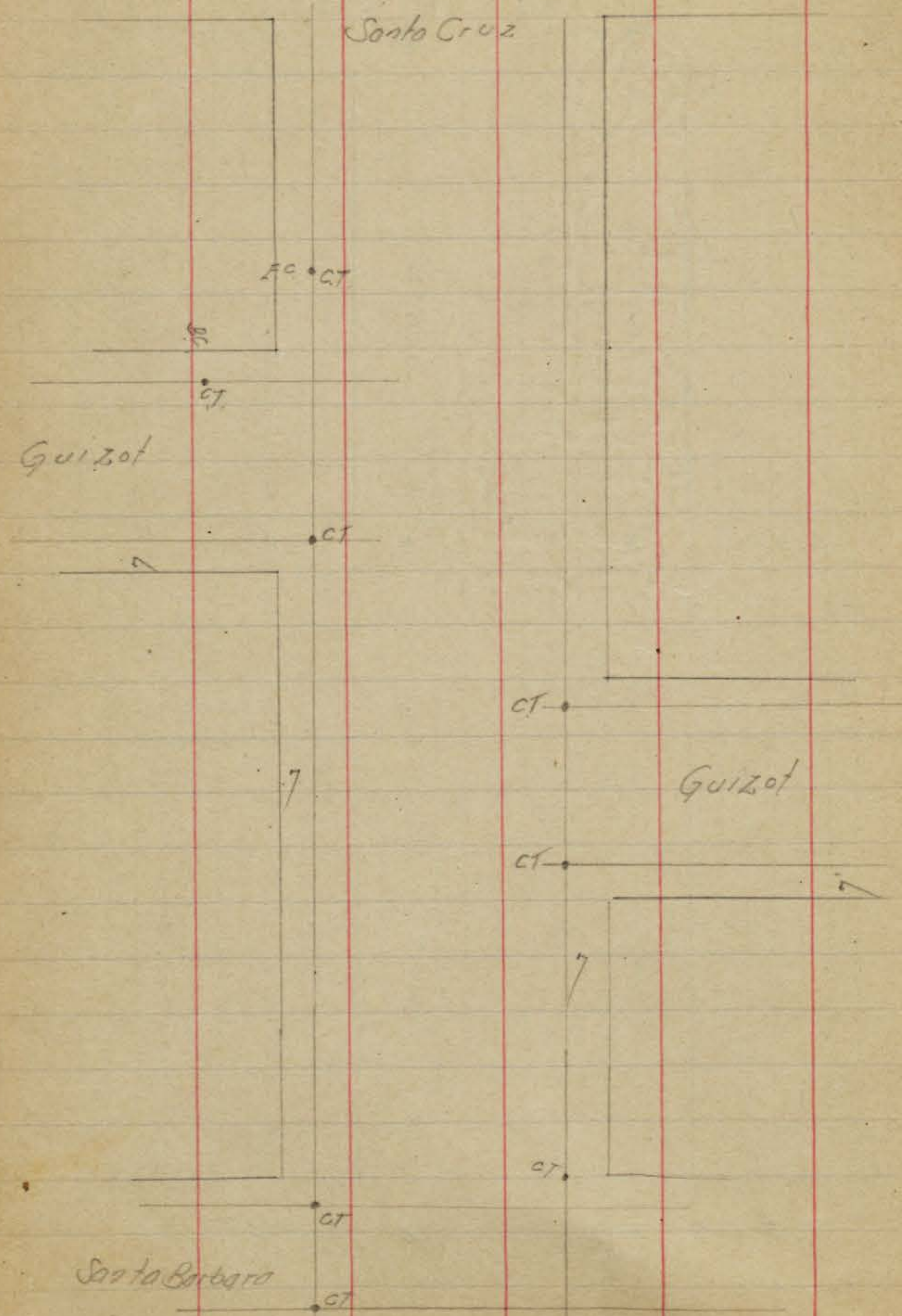
st

□ = Redwood hubs  
7' points



Froude

Santa Cruz



Bacon St

314.15

Coronado Ave

613.90

311.60

Cable

313.98

St

311.61

Guizot

314.00

614.40

614.13

Santa Barbara

De Foe

313.78 St

Coronado Ave.

311.66  
Sunset Cliffs Blvd  
De Foe

313.78

st

311.66

313.72

612.50

612.68

311.80

313.46

Ebers

st

311.80

313.45

612.32

612.31

311.79

313.20

Froude

st

Froude

Coronado

7

7

Guizot

Santa Barbara

Redwood huts  
7 pts.



Del Mar Ave

313.73

□

Cable

313.68

□

614.19

313.59

□

Sunset Cliff Blvd  
De Foe

313.60

□

612.70

311.60

□

St

311.61

□

614.22

311.66

□

St

311.66

□

612.59

Del Mar Ave

27

313.62

□

Ebers

311.80

□

St

313.60

□

311.80

□

612.35

313.34

□

Froude

311.79

□

St

□

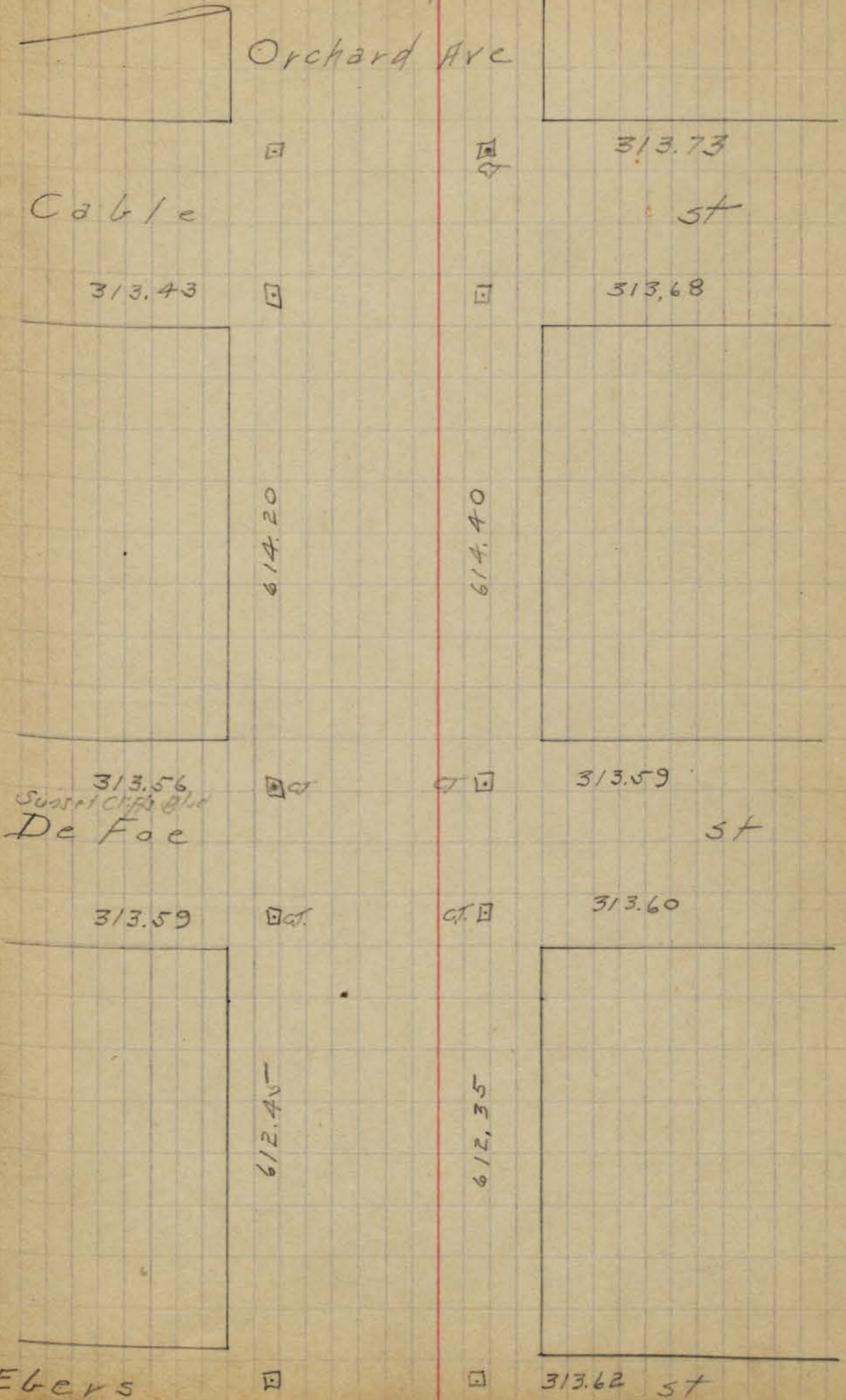
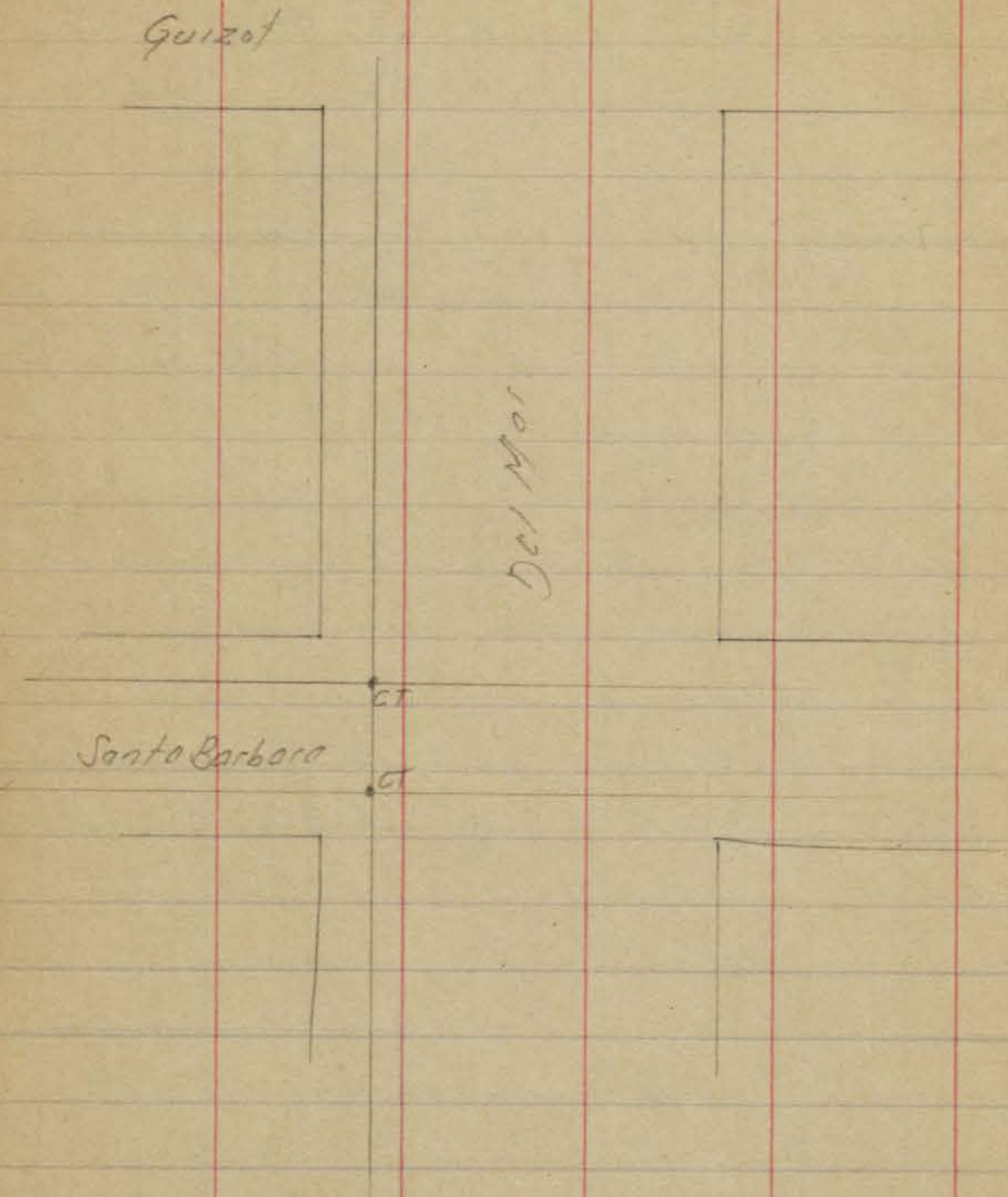
□

Guizot

□

□

□ = Redwood hubs  
7' pts. *Posted No*



	□	□	313.73
	□	□	st
313.43	□	□	313.68
	614.20	614.40	
313.56	□	□	313.59
<i>Sunset Cliff Blvd</i>	□	□	st
313.59	□	□	313.60
	612.45	612.35	
Ebers	□	□	313.62 st

Orchard AYC



Ebers 313.66 313.62 ST

313.70 313.60

612.29

612.24

Froude 314.07 313.34 ST

Guizot

Pastel #10

237

Orchard

Santa Barbara ct

Redwood Hubs  
7' pts

Posteal  
H.O.

Cable St  
313.43

Ave

614.34

Sunset Cliffs Blvd  
De Foe  
313.55

313.56

313.56

st

313.59

612.31

Pescadero

612.30

313.58

Egers

313.58

313.66

st

313.70

Egers

313.58

313.66

Froude

Guizot

313.66

st

313.70

314.04

st

Pescadero Ave

612.34

612.38

ct.

ct.

ct.

ct.

ct.

ct.

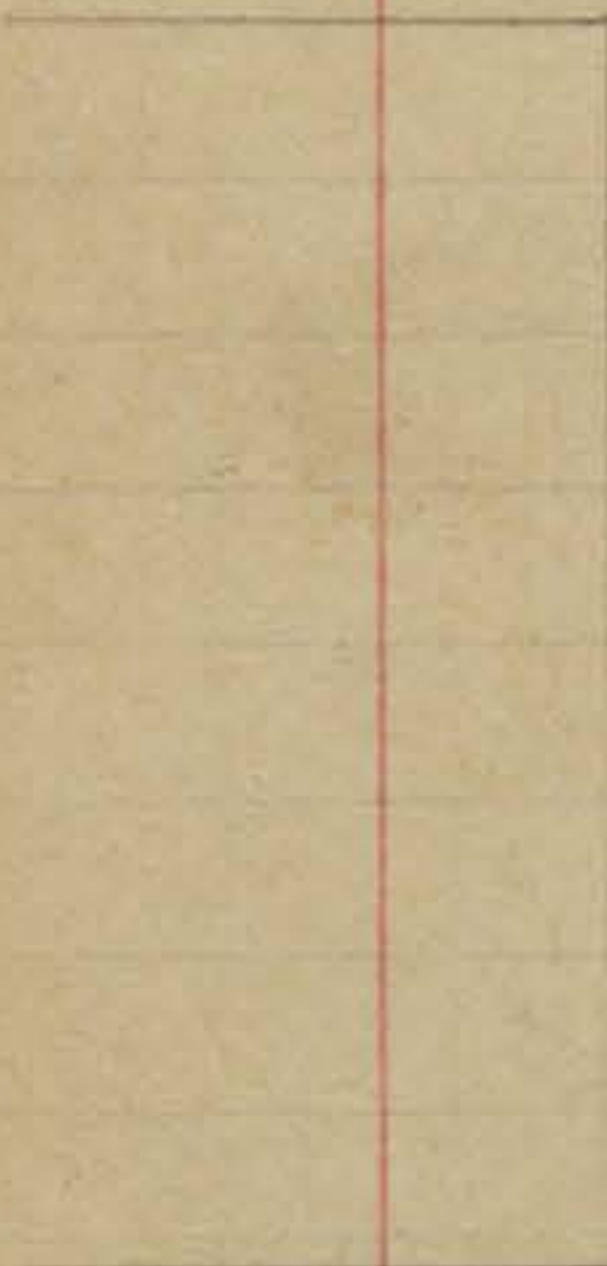
ct.

ct.



Pasted  
NO

Guizot



chisel cut  
curb  
chisel cut  
curb  
Pavement

Santa Barbara

□ = Redwood Hub  
○ = cap 12x12 in curb  
7' pts

31

Ave



314.18  
Sun set Diff. Blk  
De Foe

314.18

□

□

313.55

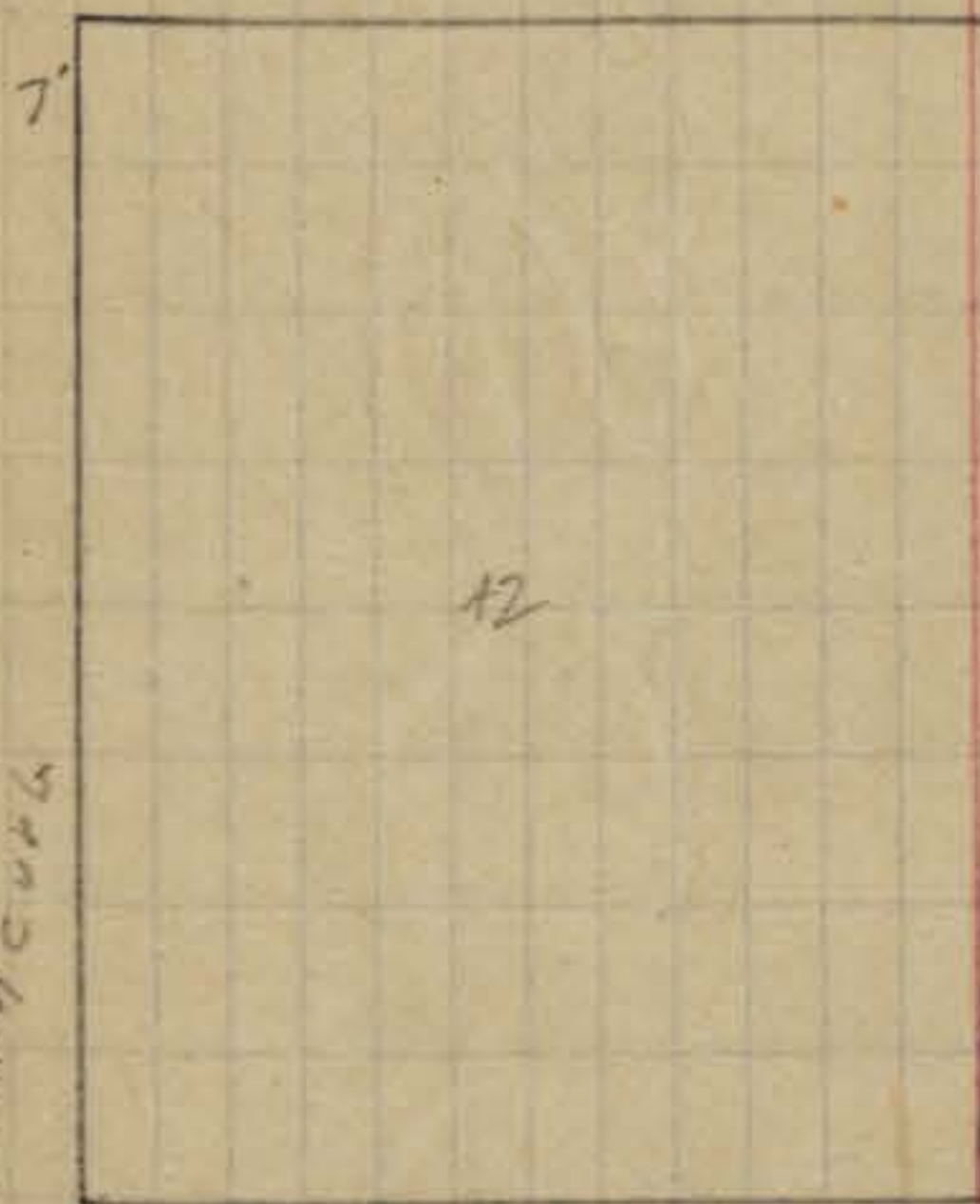
st

□

Ave

□

313.56



12

Point Loma

611.97  
out to cap 12x12 in curb  
7'

314.12

Ebers

□

□

313.58

st

314.12

Point

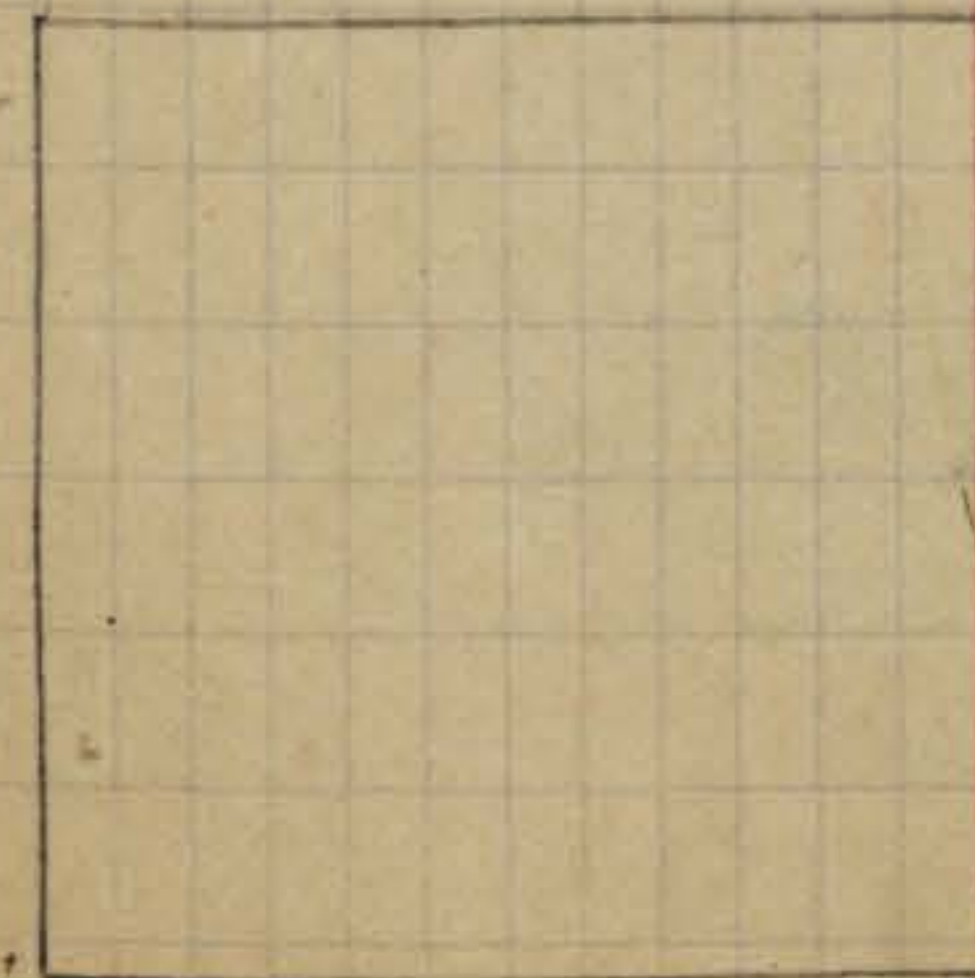
612.38  
cap 12x12 in curb  
7'

612.36

Bermuda

612.44

313.58



313.86

Froude

□ CT #114 Cont ST

313.66

st

Posted No



indexed  
C.S.K.

Survey City Fire Dept. Lot 19 Bk 60 D.B.

Moore 7-31-36  
Sisson  
Northport

Note! Ely Line of Sta. over 0.05' on Lot 19  
from Nly Newport to 4' N from this pt.  
to rear STA. Bldg. is back from 0.02' to 0.07'

at height of 5' above sdw. Bldg. is on Line

Wly Line STA. is over on Lot 17

0.05' at Nly Newport or rear 0.03' over

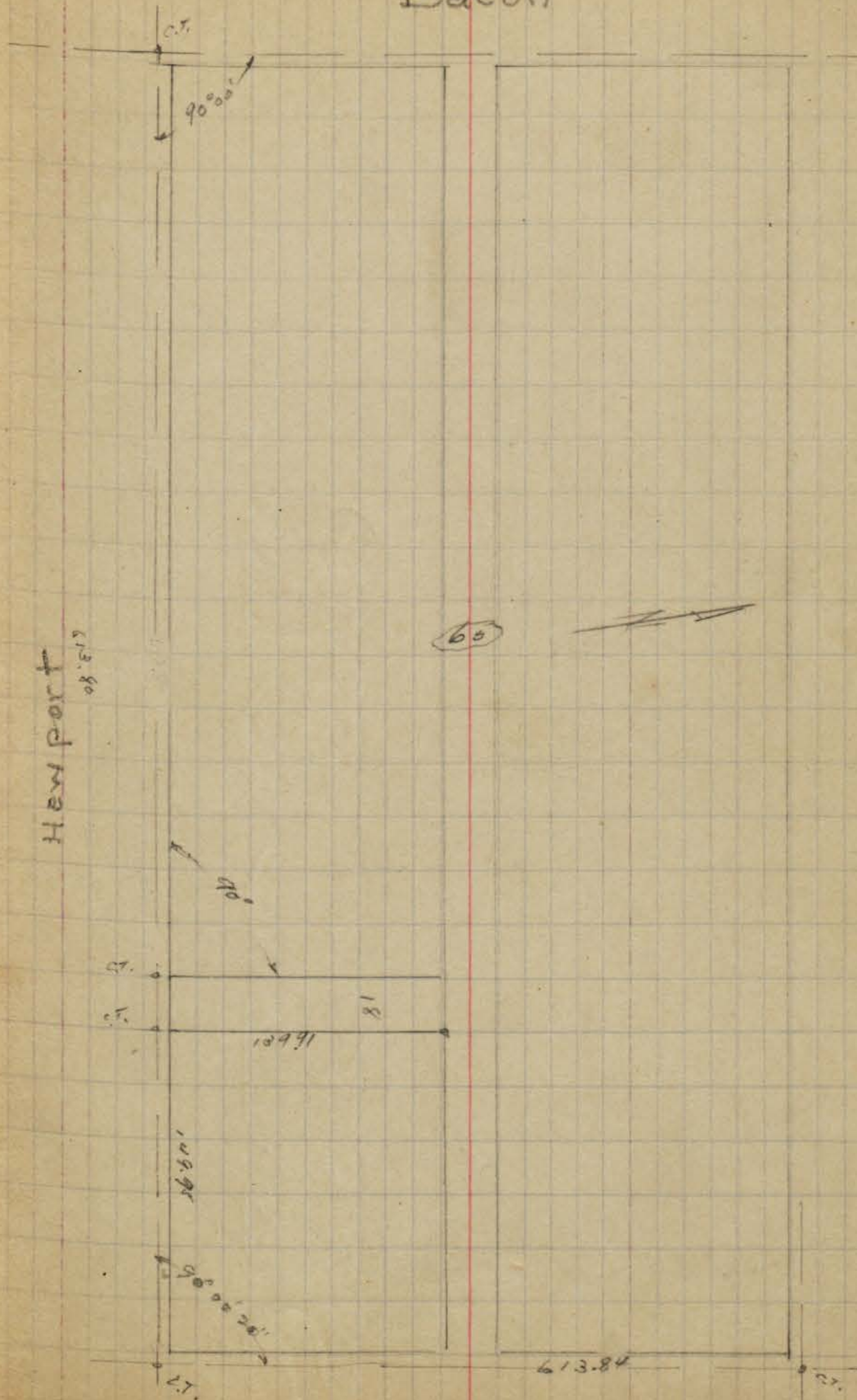
check Survey 3-8-40. Moore  
Hale

Ed. E.H. C.T. O.K.

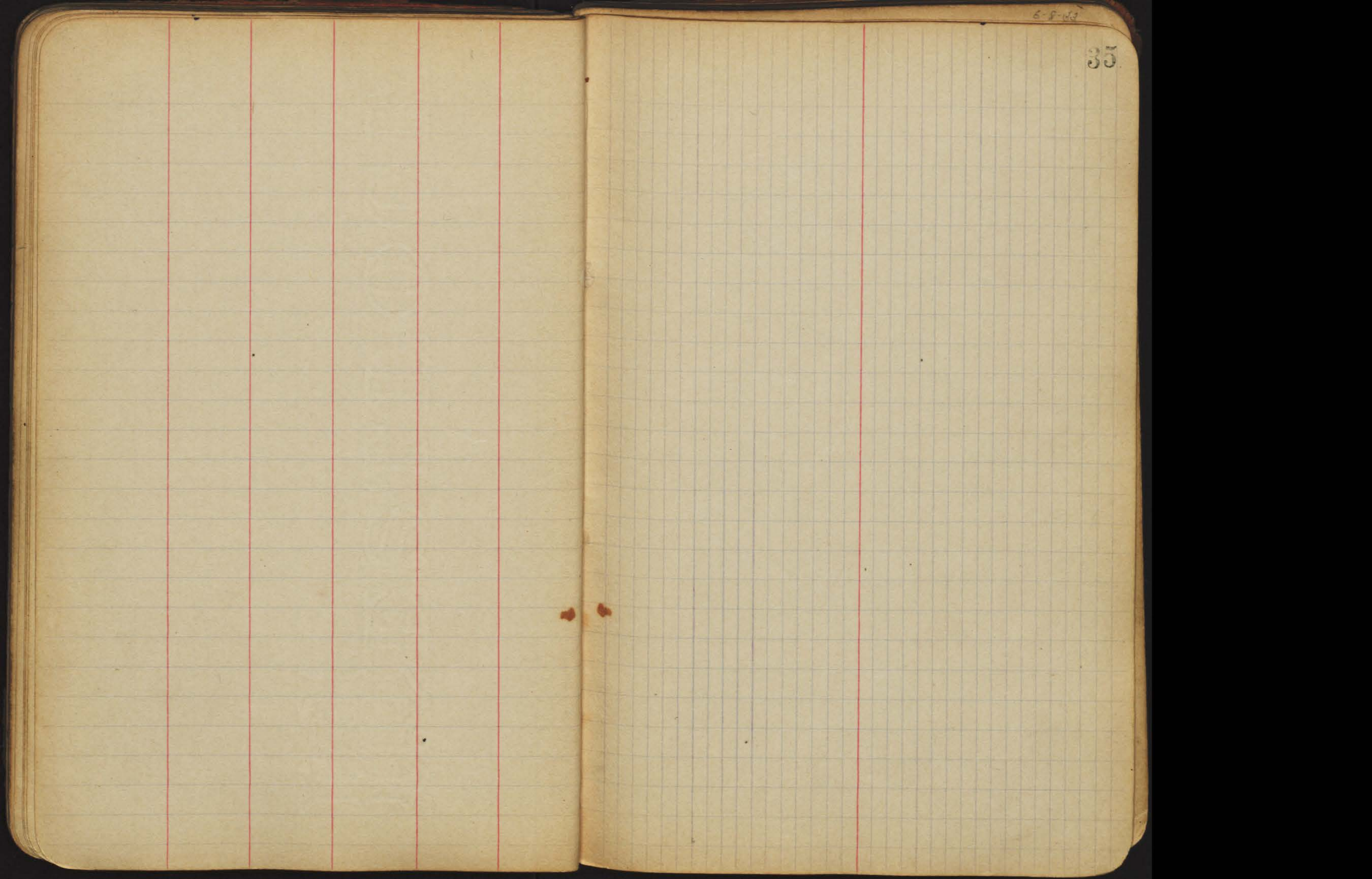
" W.L. " 0.01 too far North and  
Midway bet. New C.T. by haebenstein

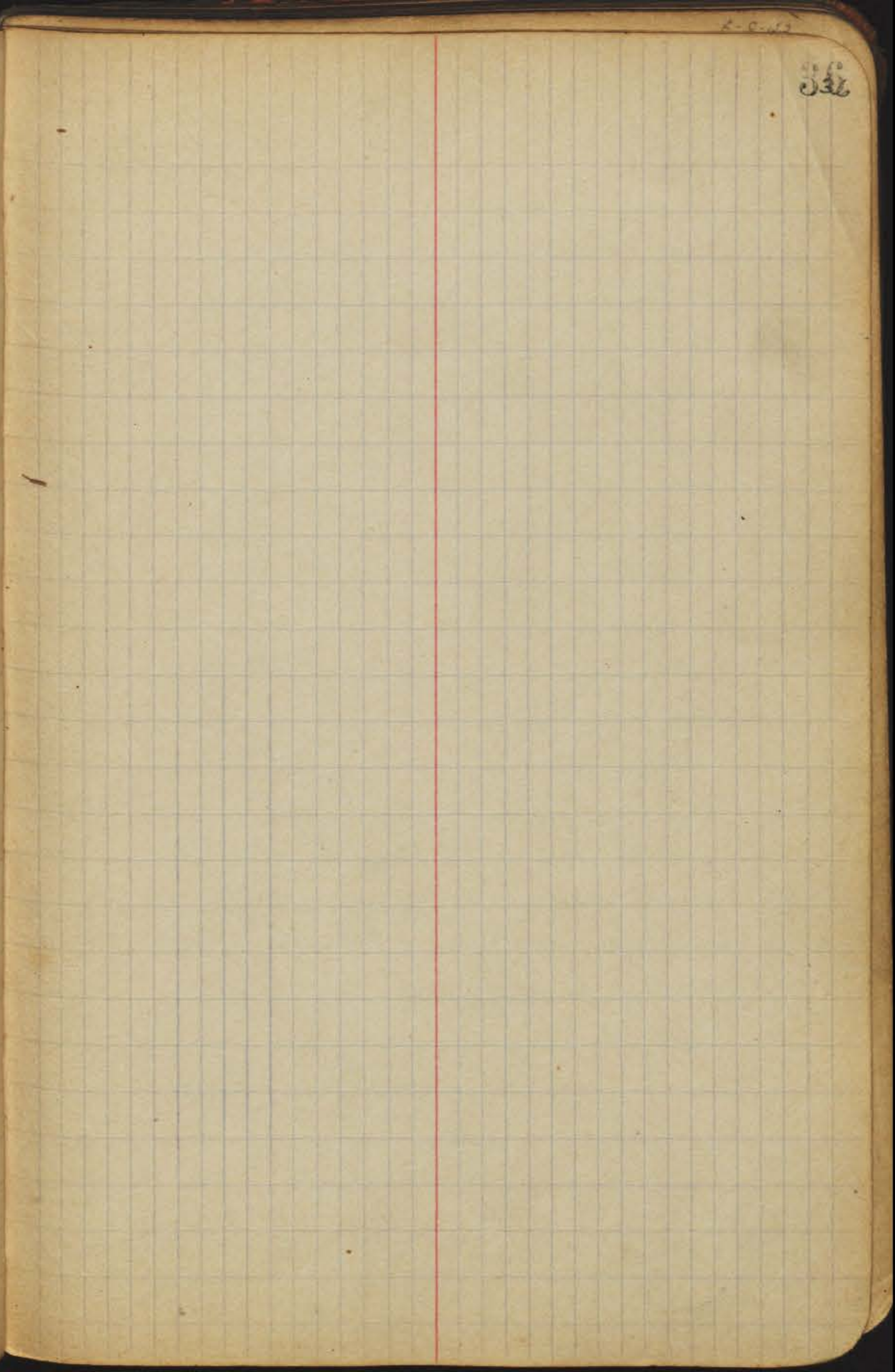
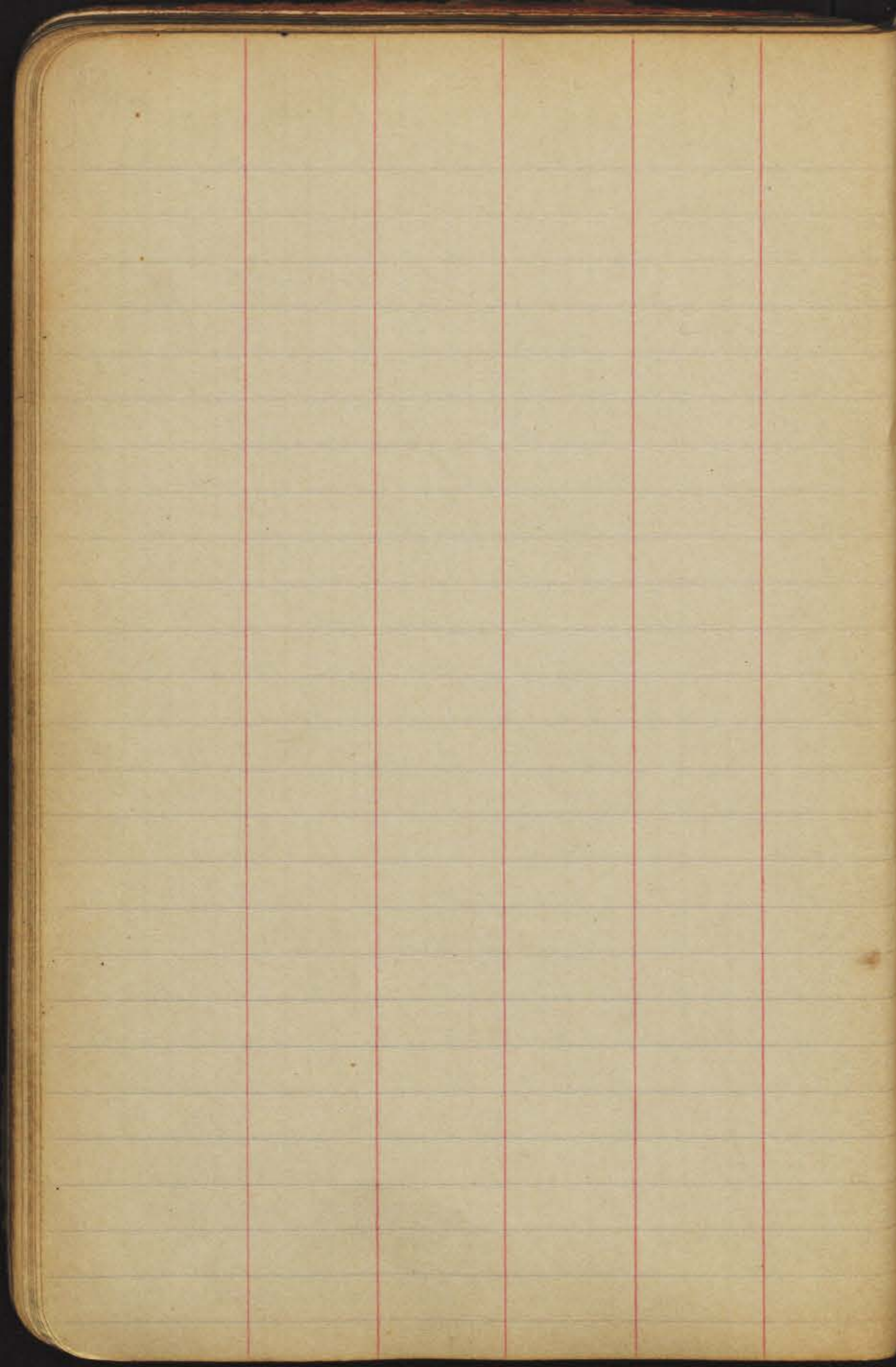
" W.L. Fire Sta. Bldg average 1 1/2" over  
on next Lot.

Bacon







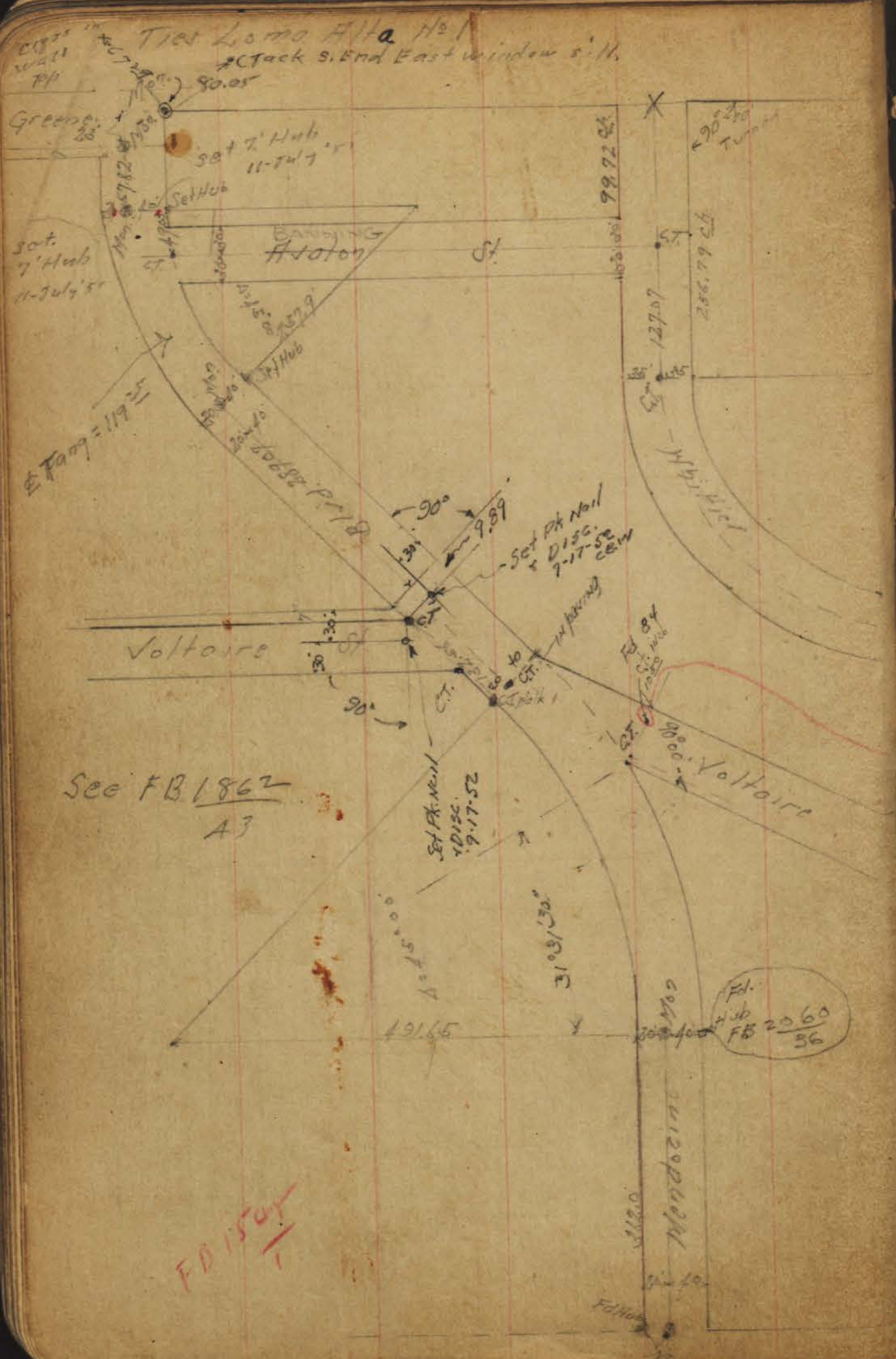




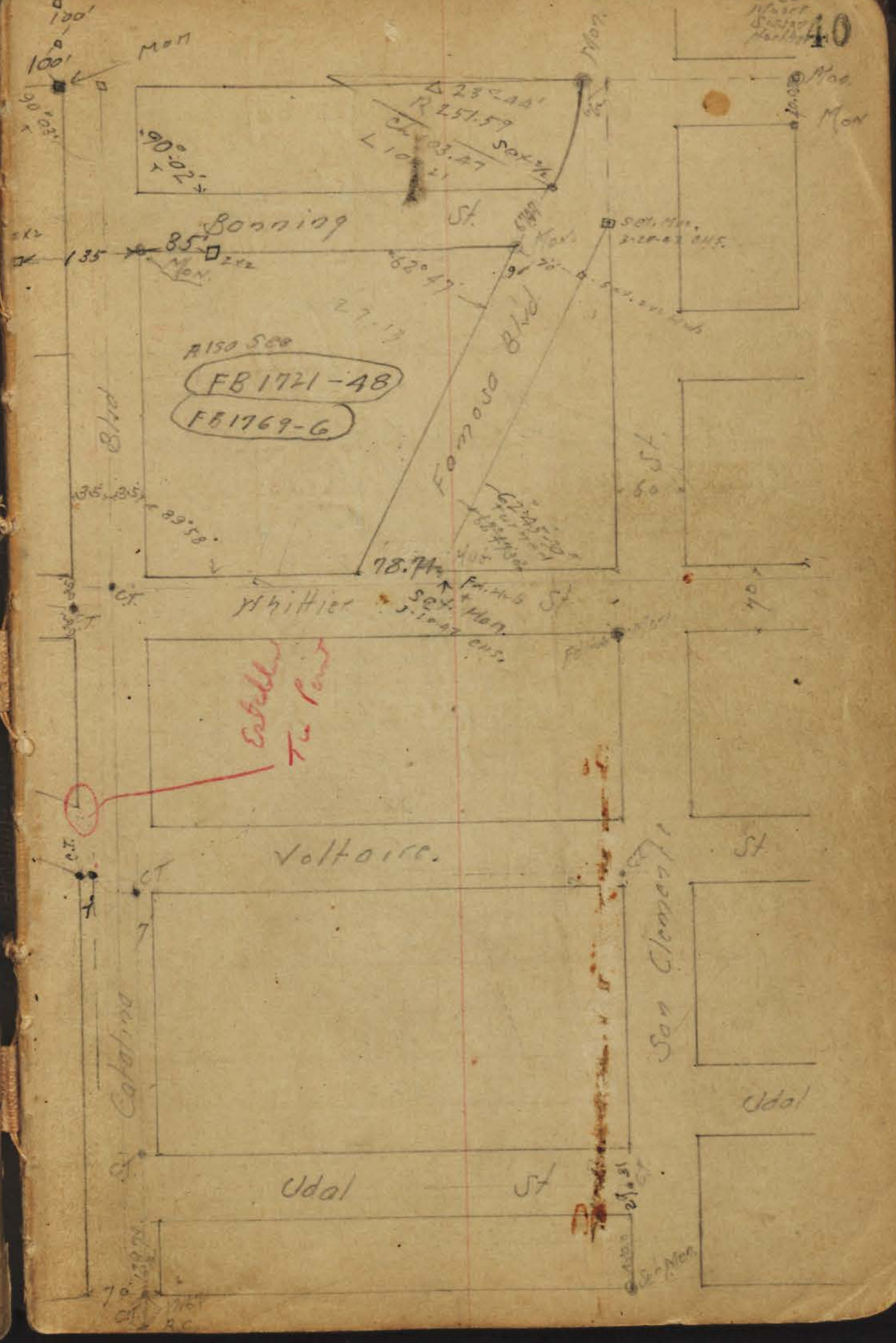








FD 1504  
 /



6-8-63  
 40  
 40  
 40

Indexed  
C.S.R. Prop. Culm. on Lot <sup>38</sup>/<sub>12</sub> Lotta Aite #1

W 80	1.93	88.43		86.50	Vert. x Bohmas
T.P.	0.00	75.98	12.51	75.92	
T.P.	1.65	65.59	12.04	63.94	

0+00 = Sly Line 15' alley

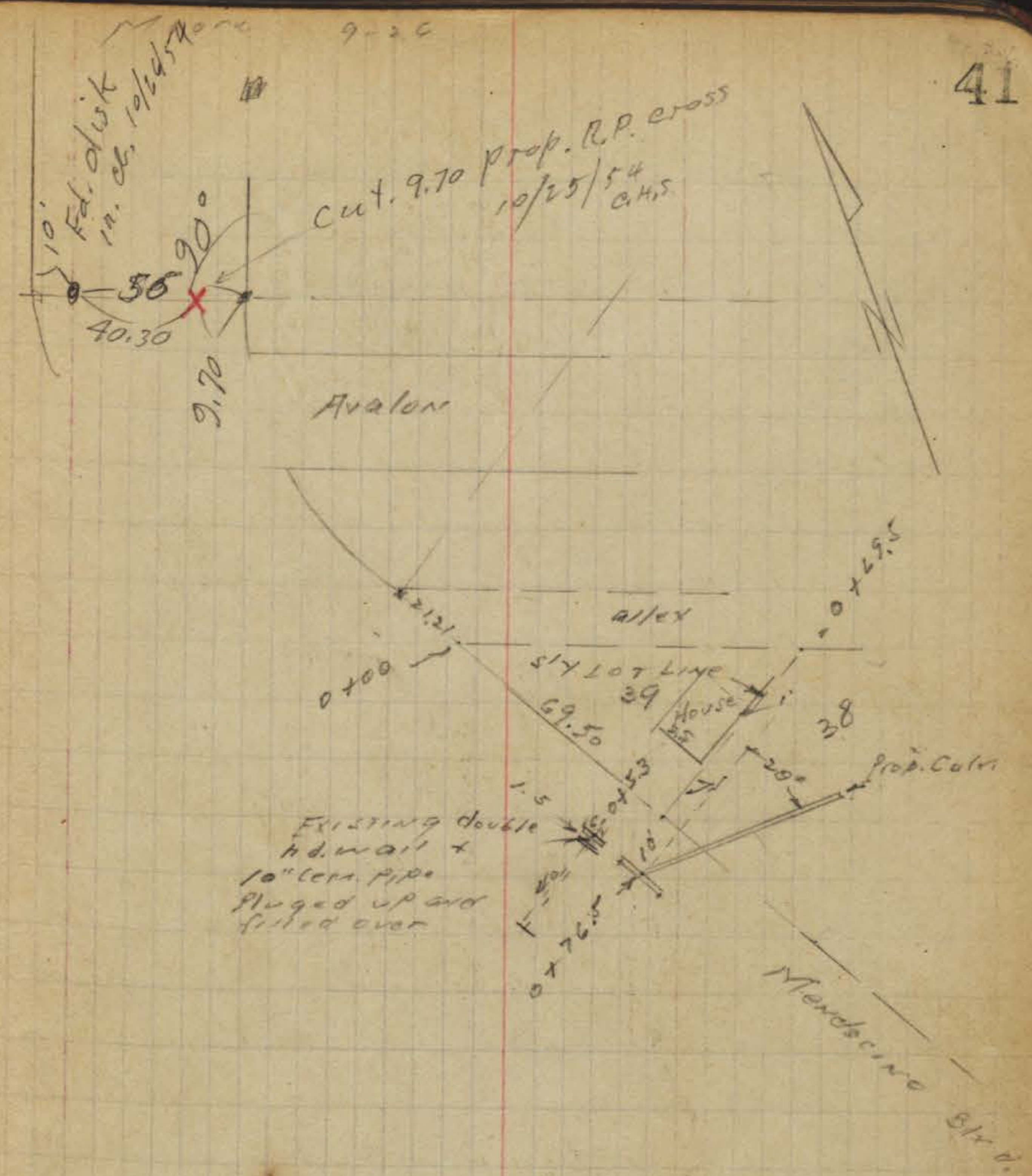
E		4.4	
E cb		4.4	
C		4.4	

0+53 = E Ex. Culm of House 25' wide

E - 18	ft. elev.	5.50	
E		5.3	00.3
cb	Top head wall	5.16	
"	flow line 10" Pipe	7.40	
C		4.1	61.5

0+76.5 = Prop Culm.

W 06		2.7	
C		3.6	
E cb = inlet = 0+00		4.1	
E line of Culm.		4.6	
0+12		4.8	
0+25		12.2	
0+50		15.8	
0+80 in wash		22.2	



Survey

1-10  
72

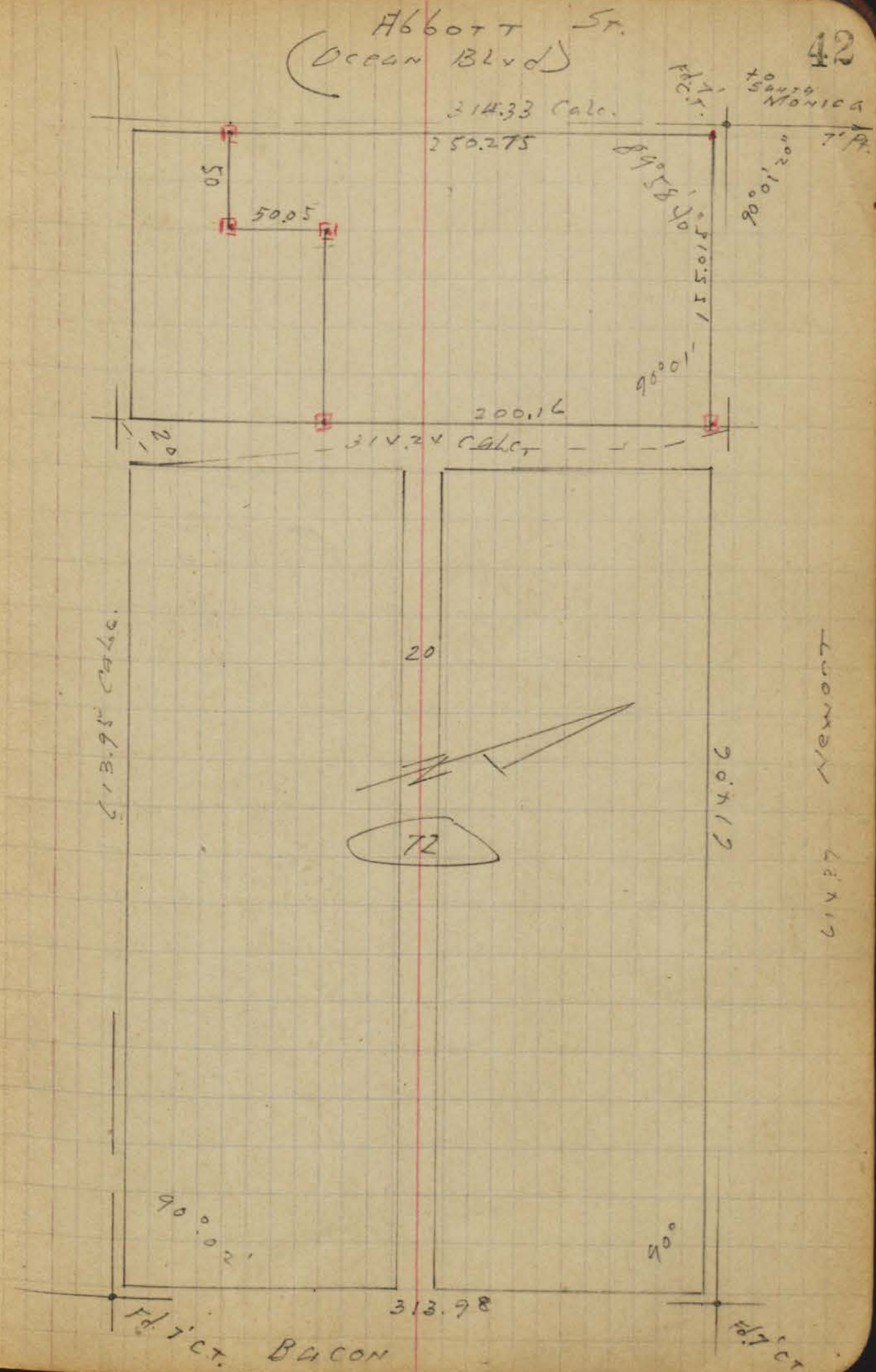
Ocean Beach  
Map 279

Moore  
Begg  
Sherran  
Bunch  
Gregory

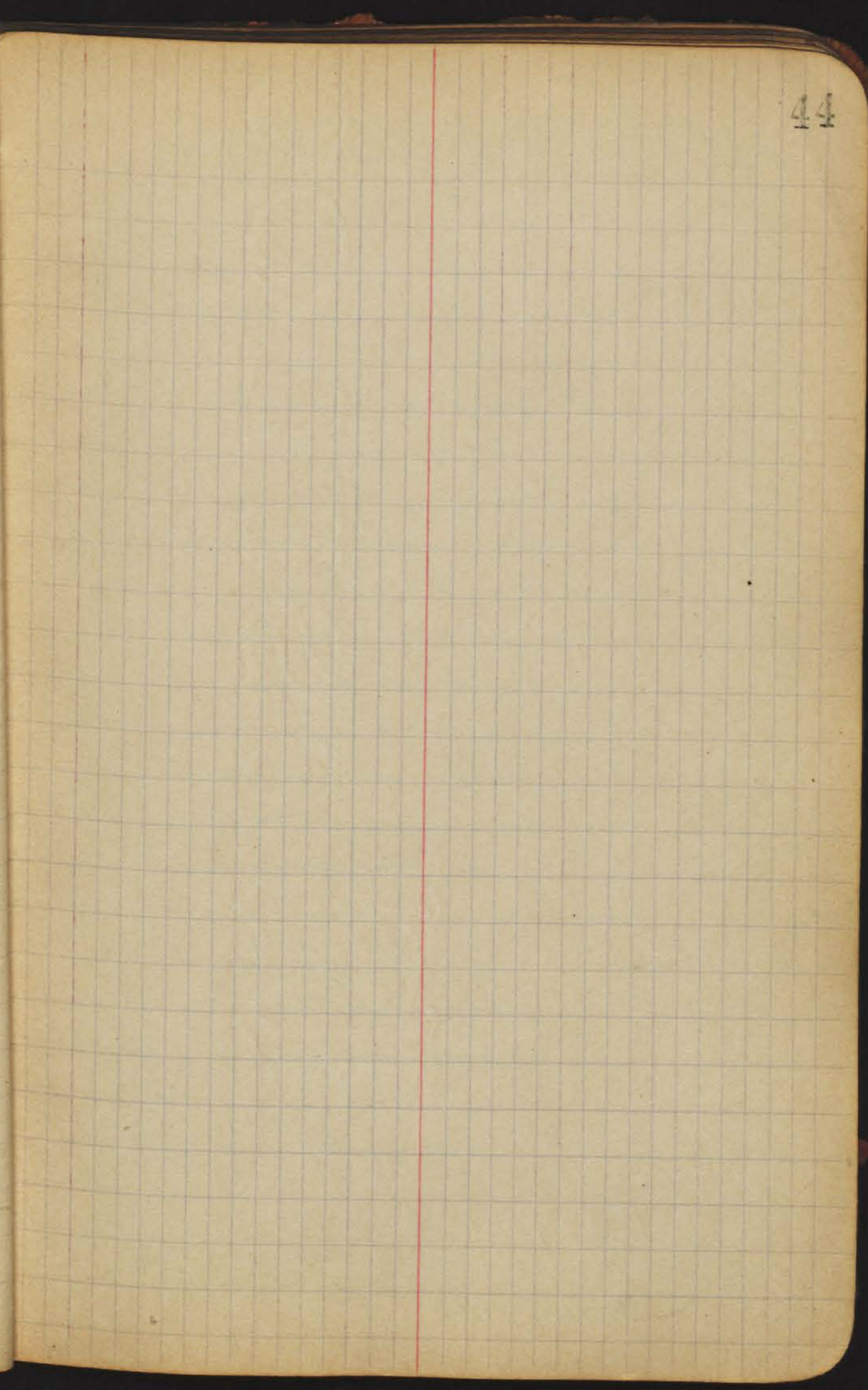
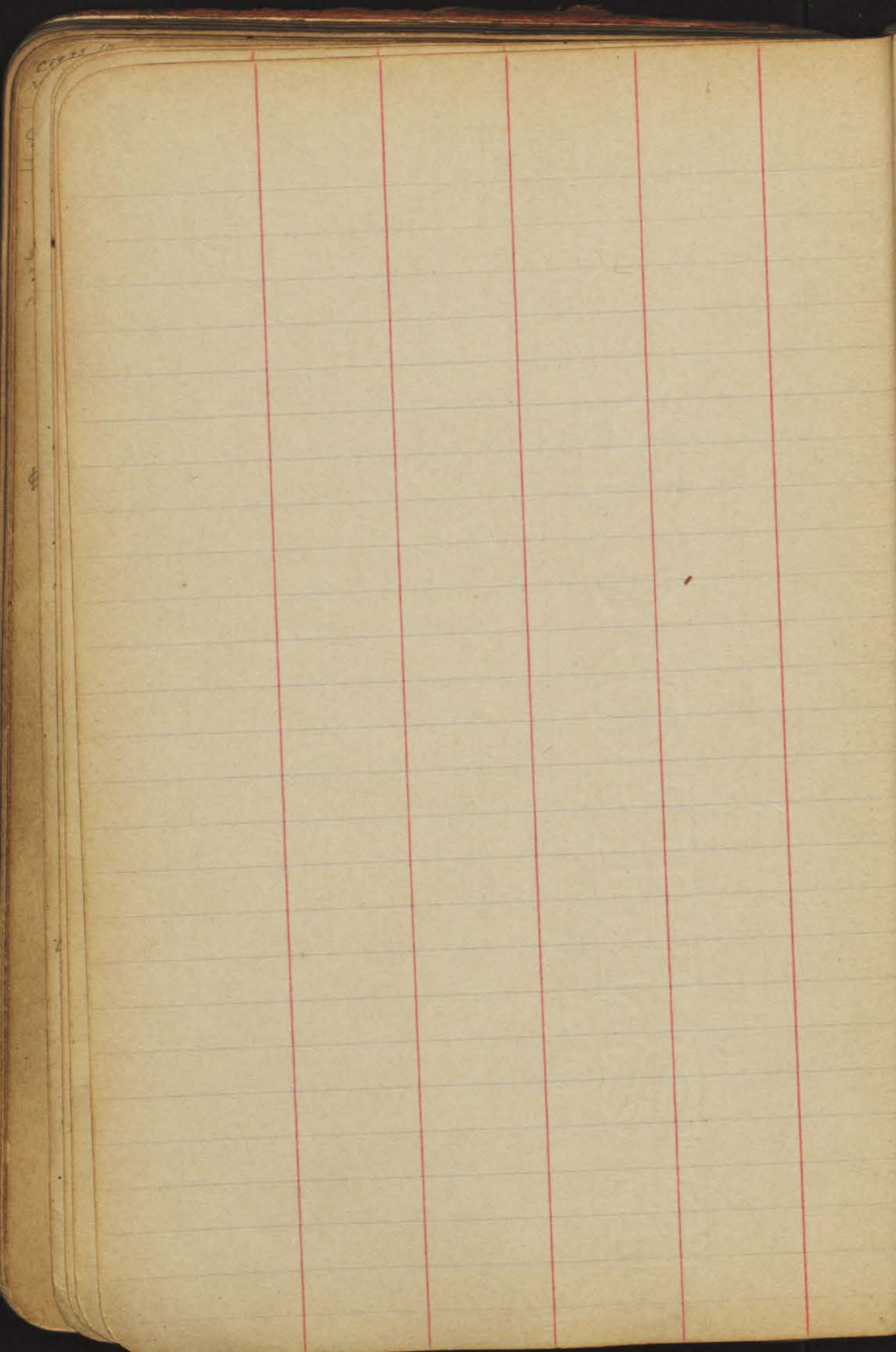
10-28-48

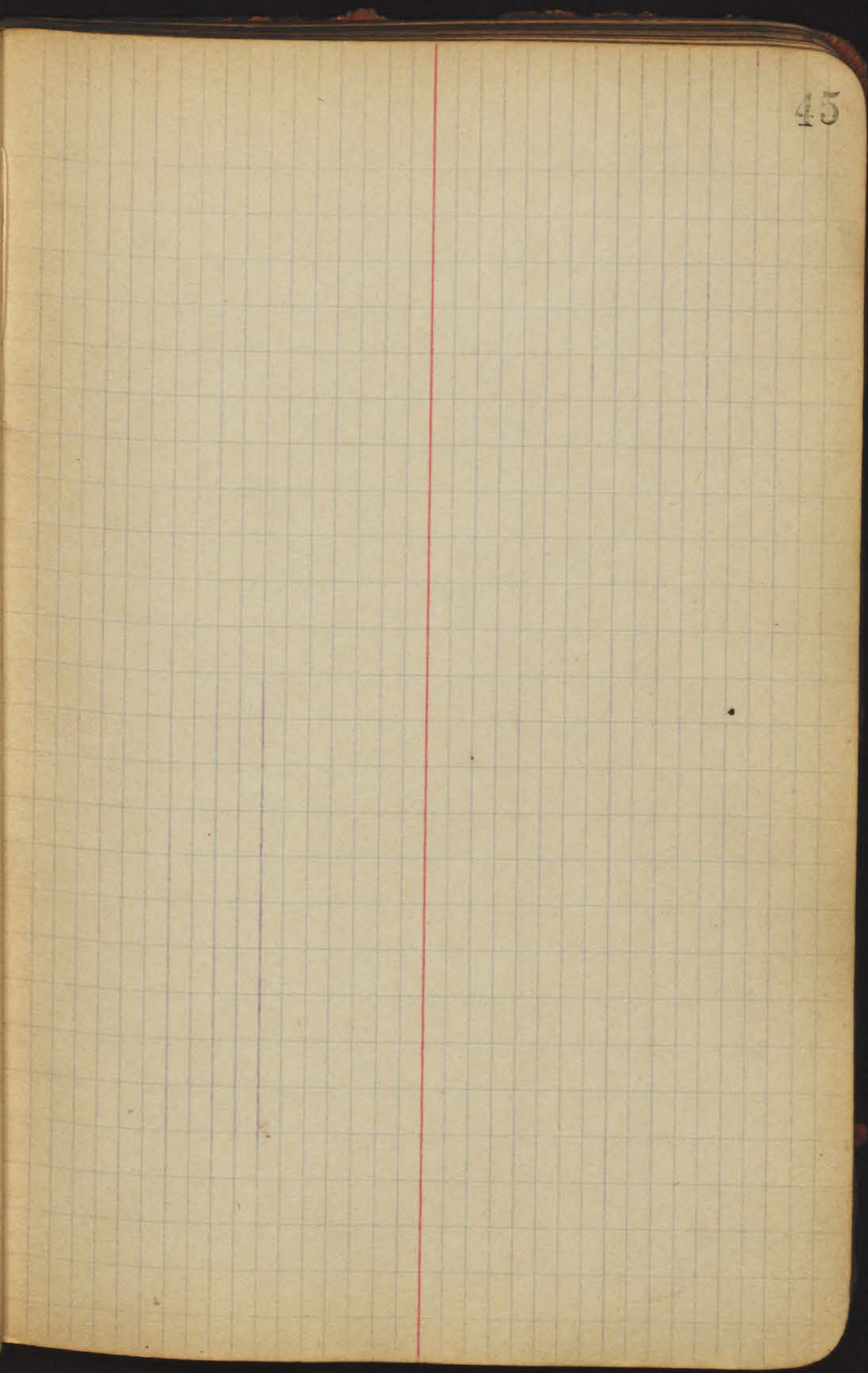
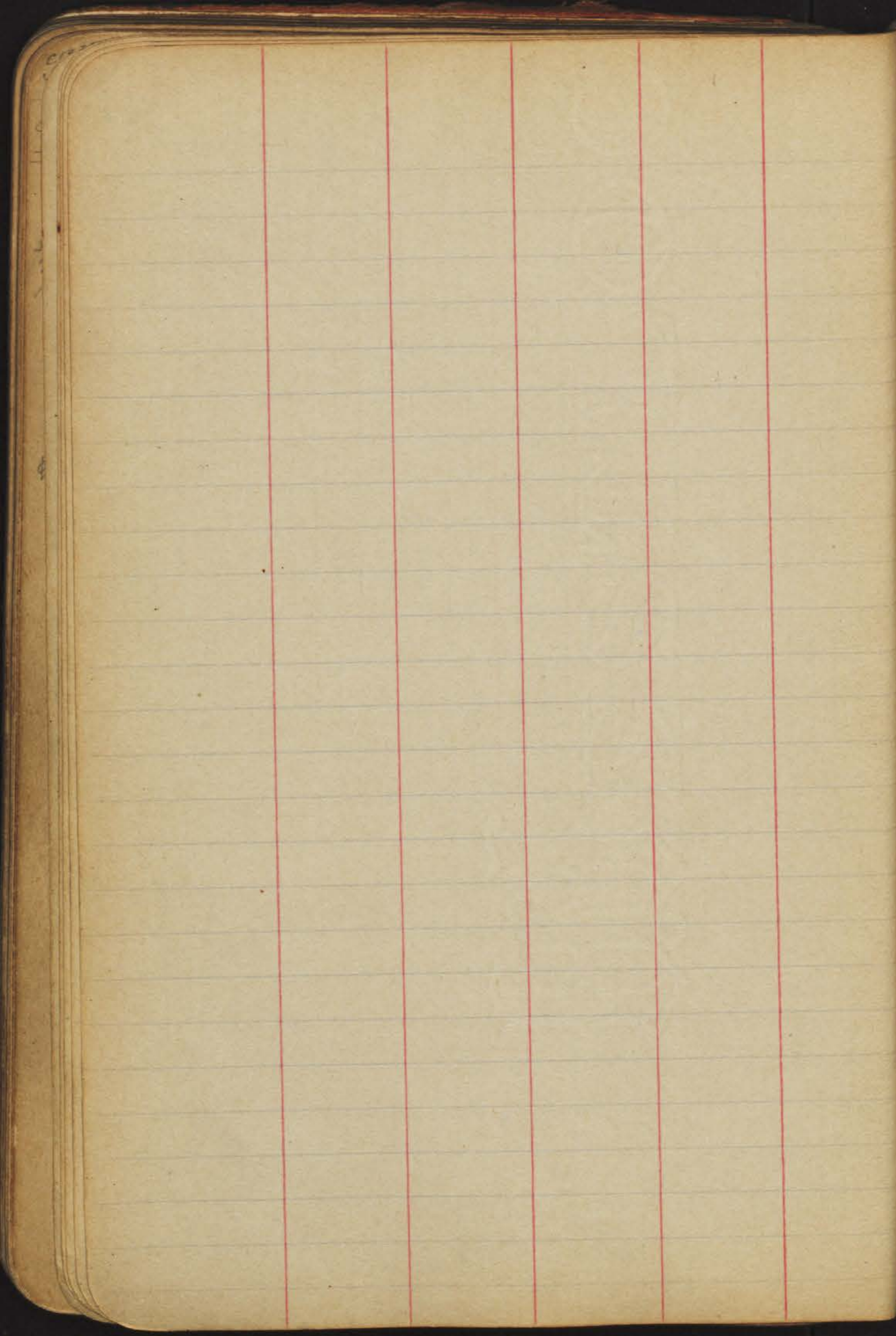
W/O 21001

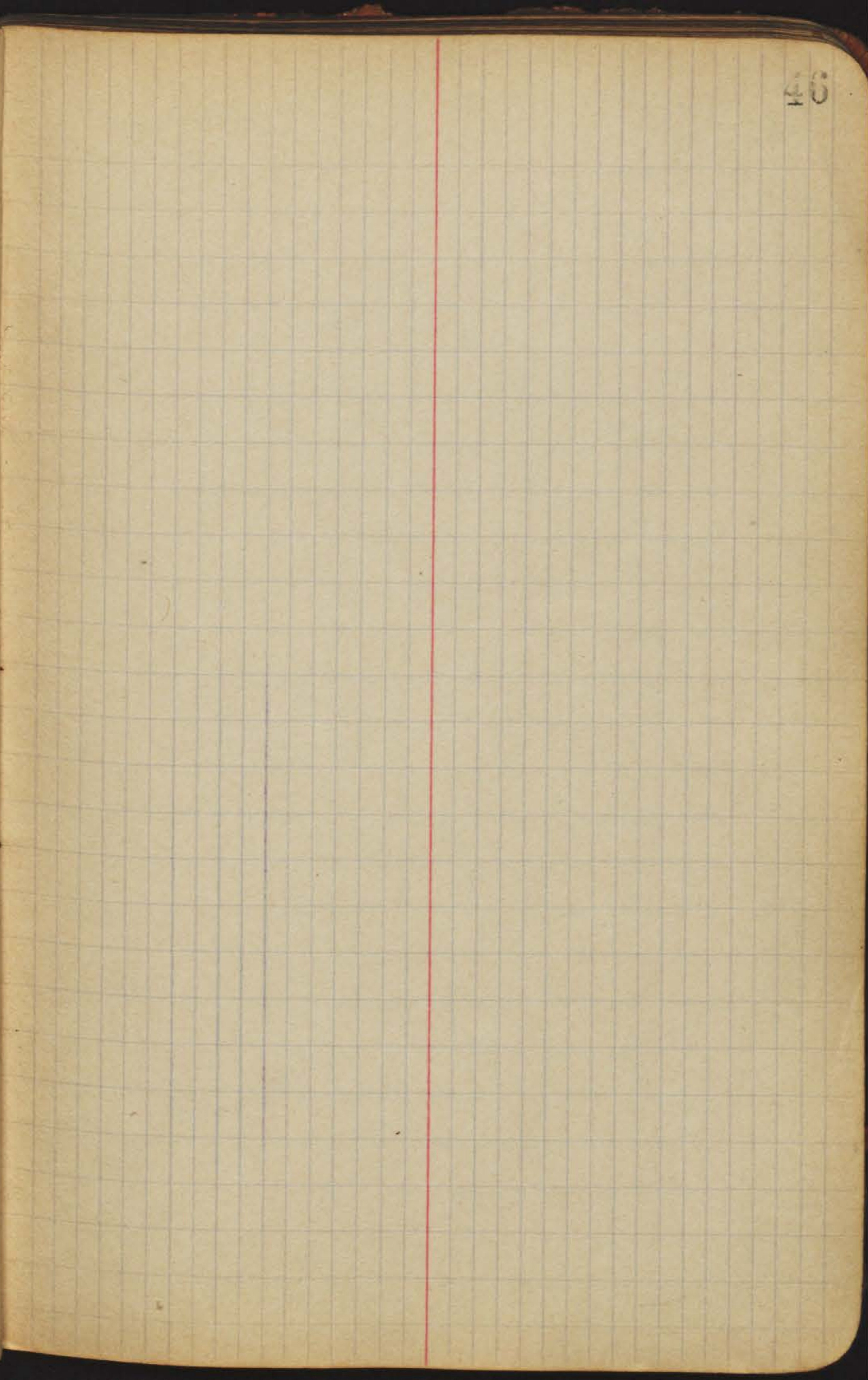
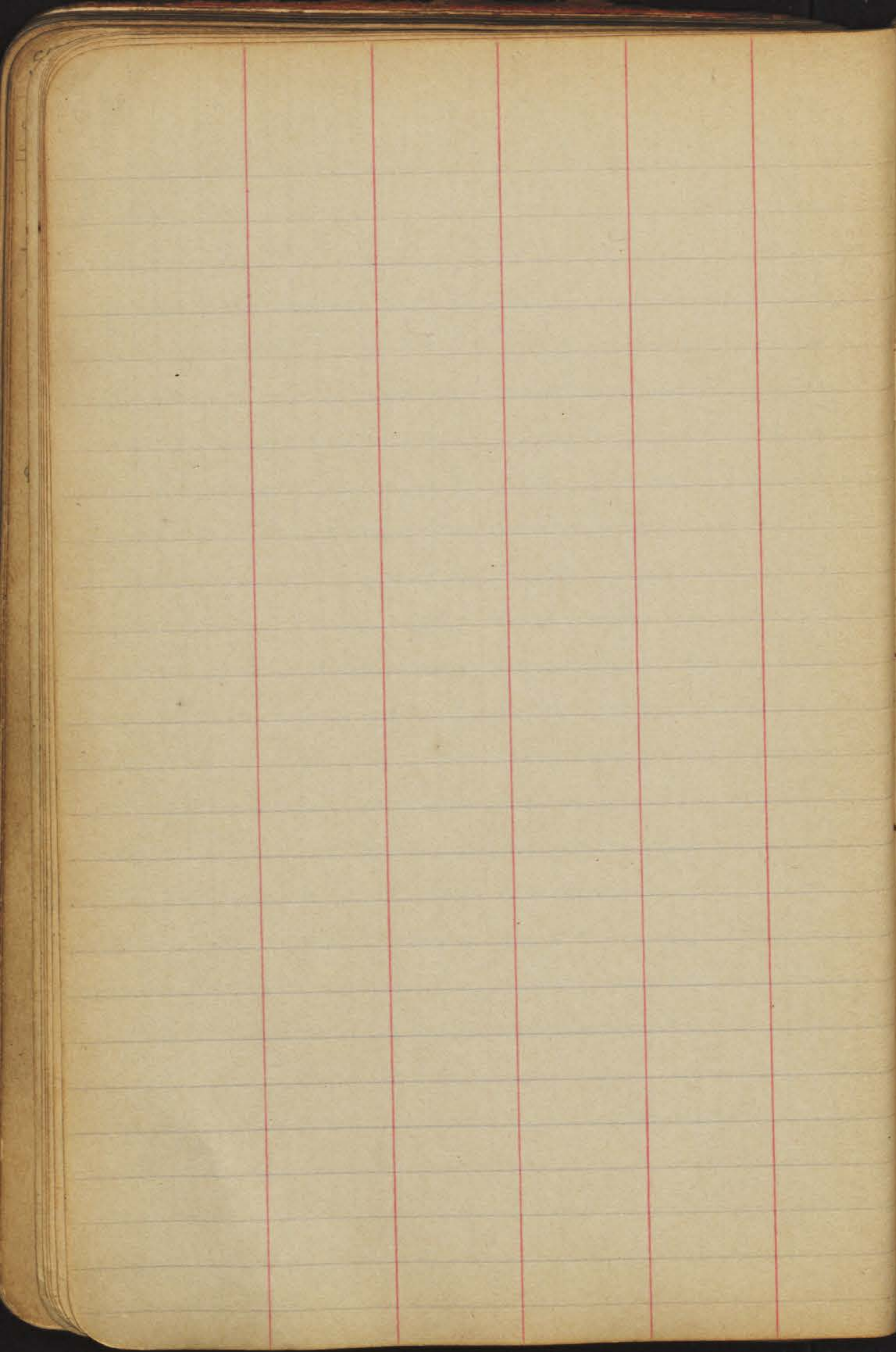
• = Gray disk Ld.  
□ = " " Hub



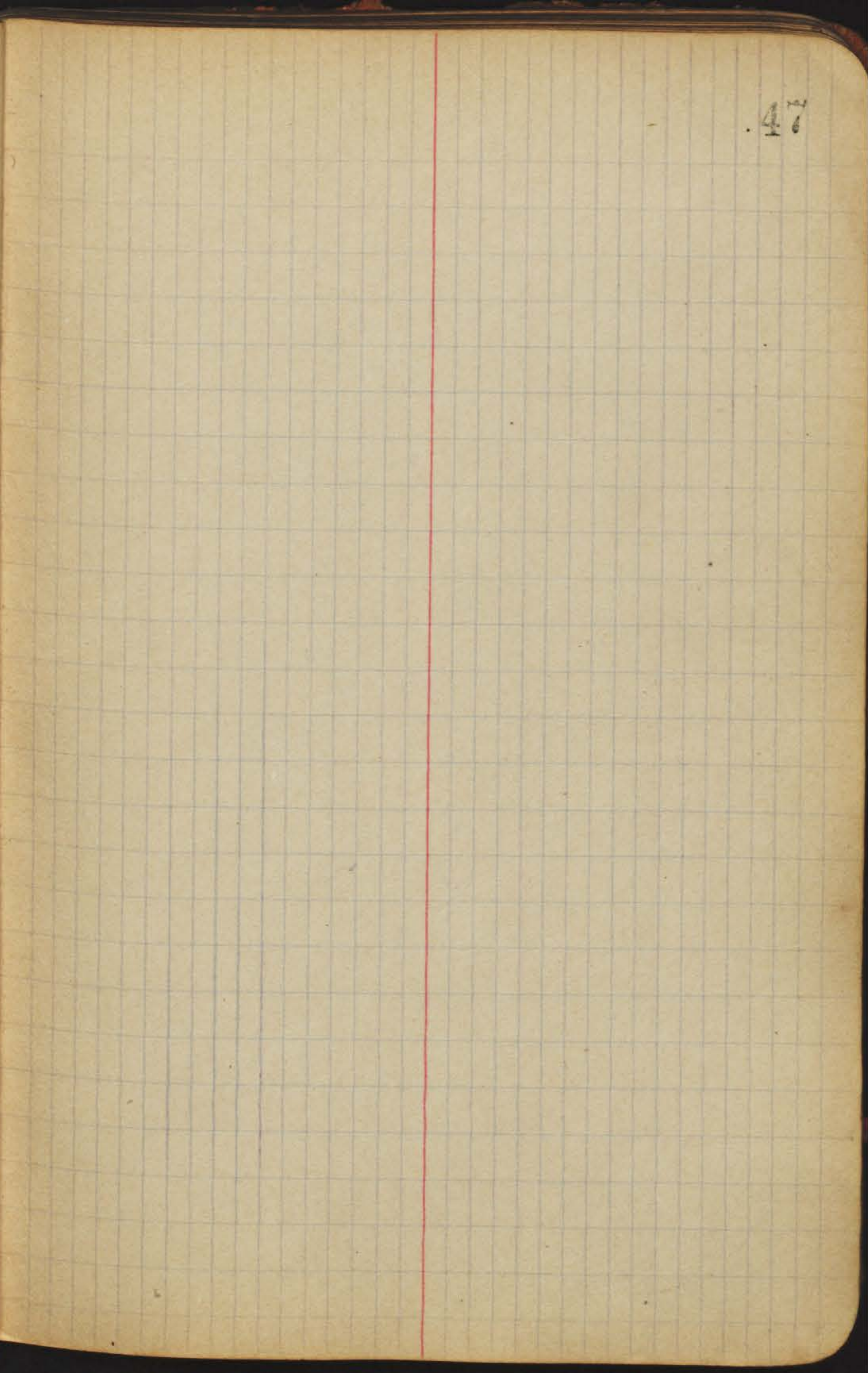
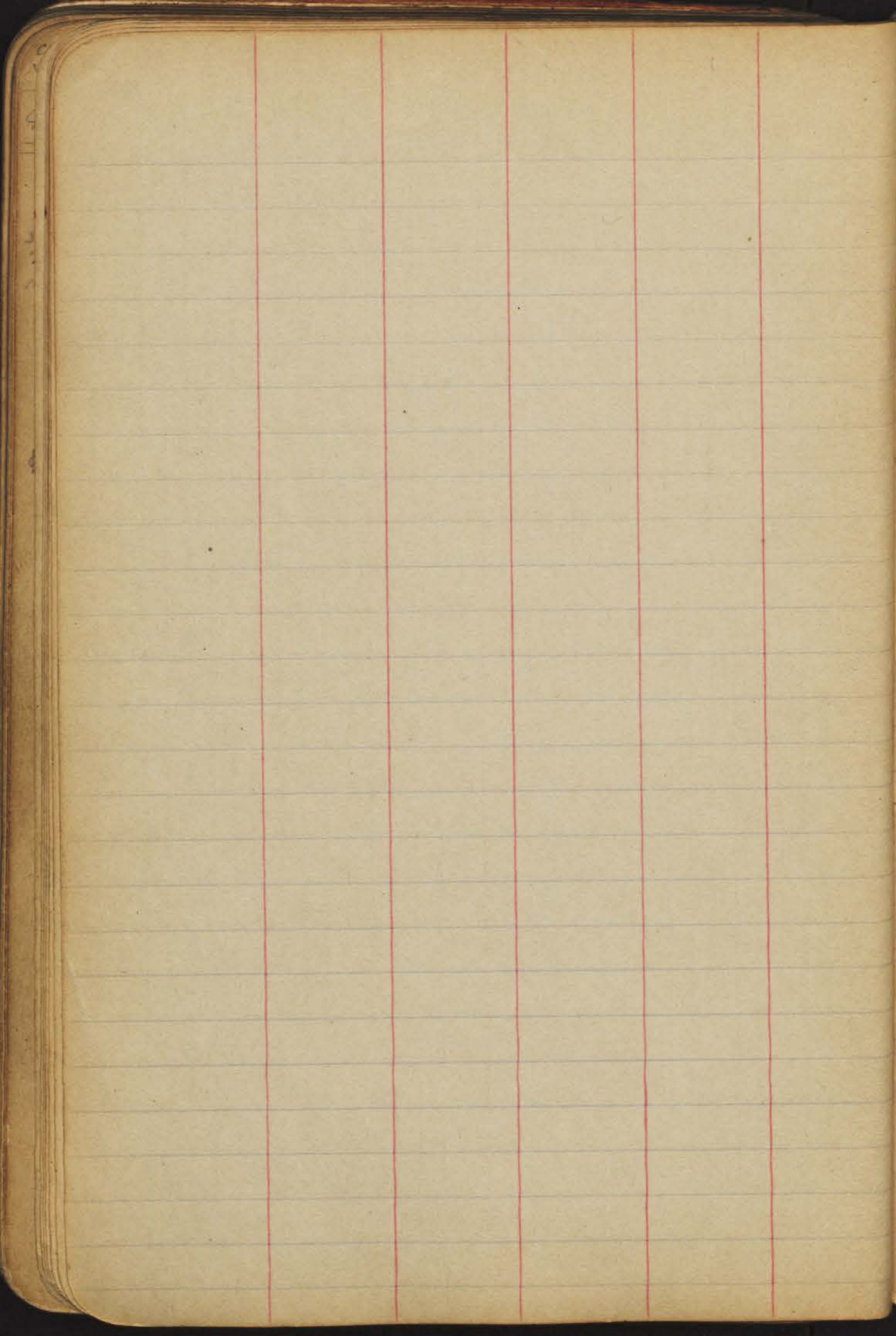


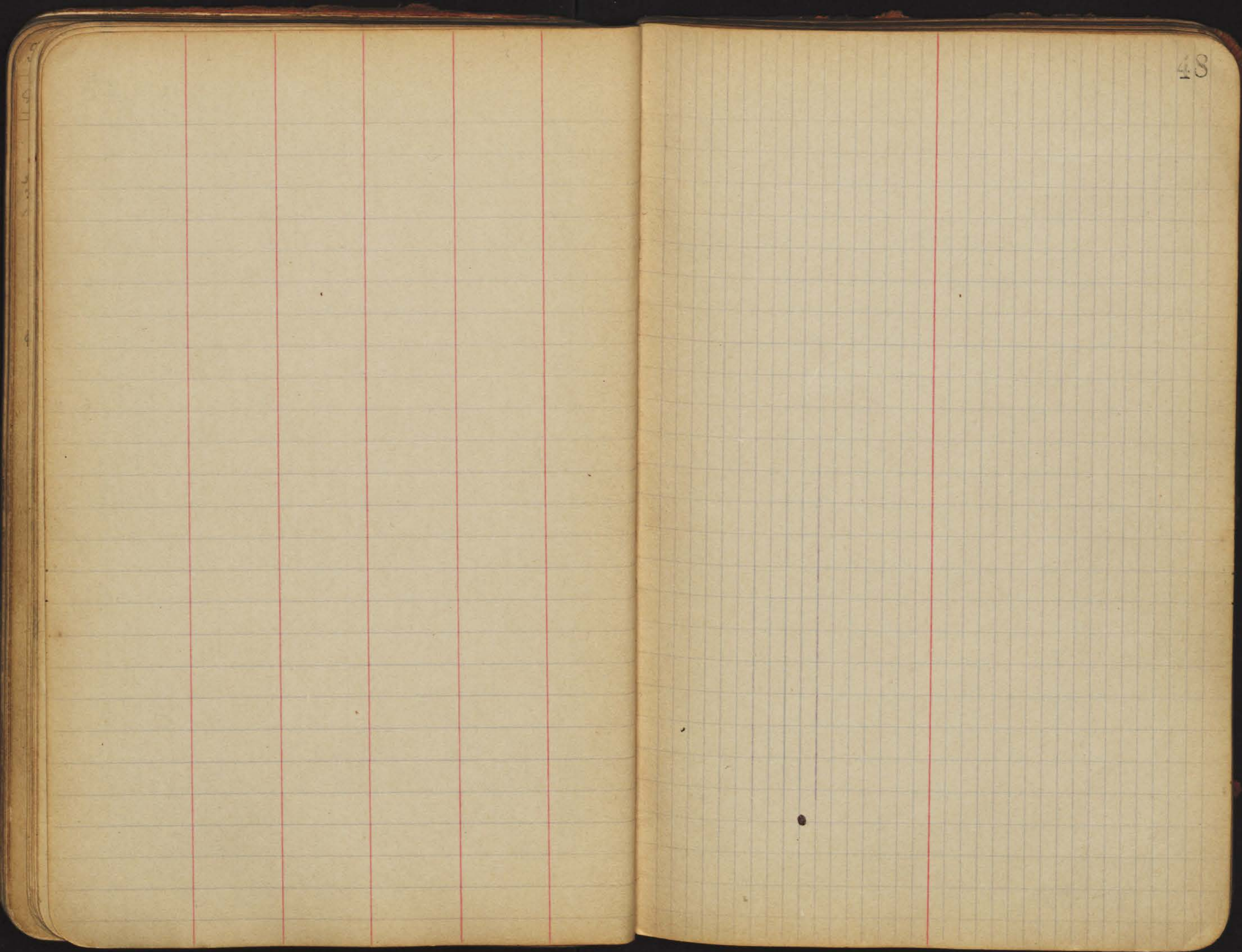


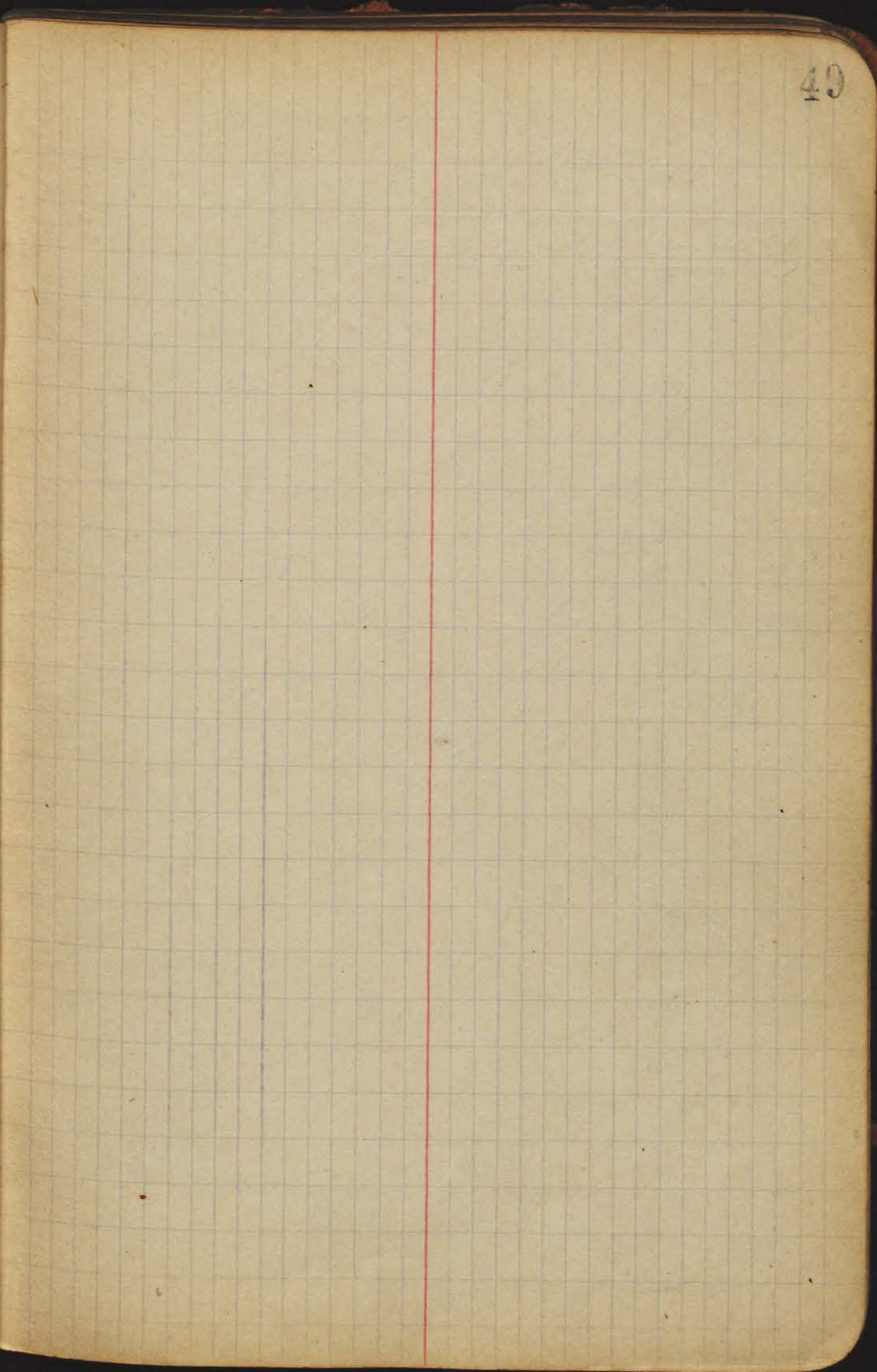
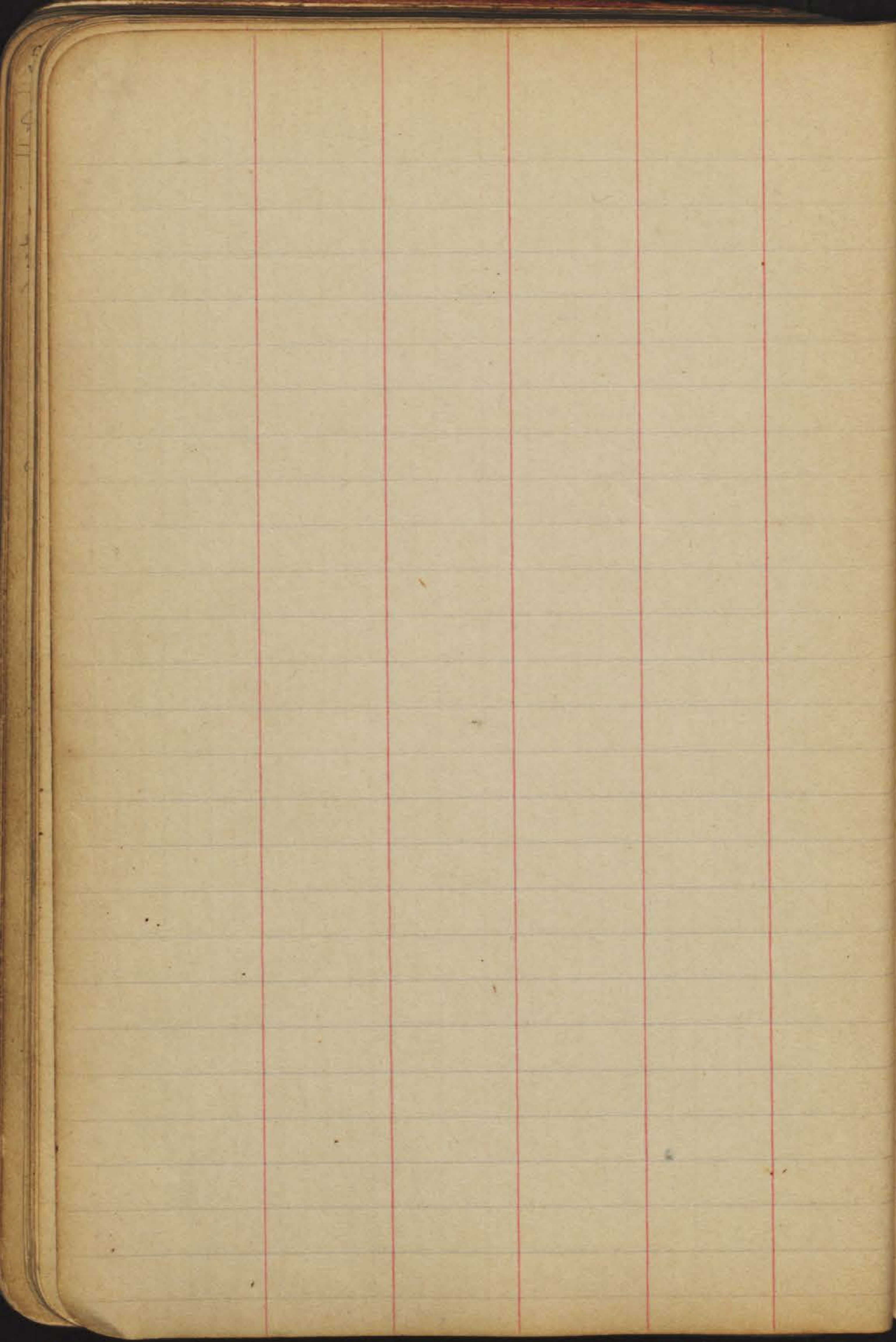






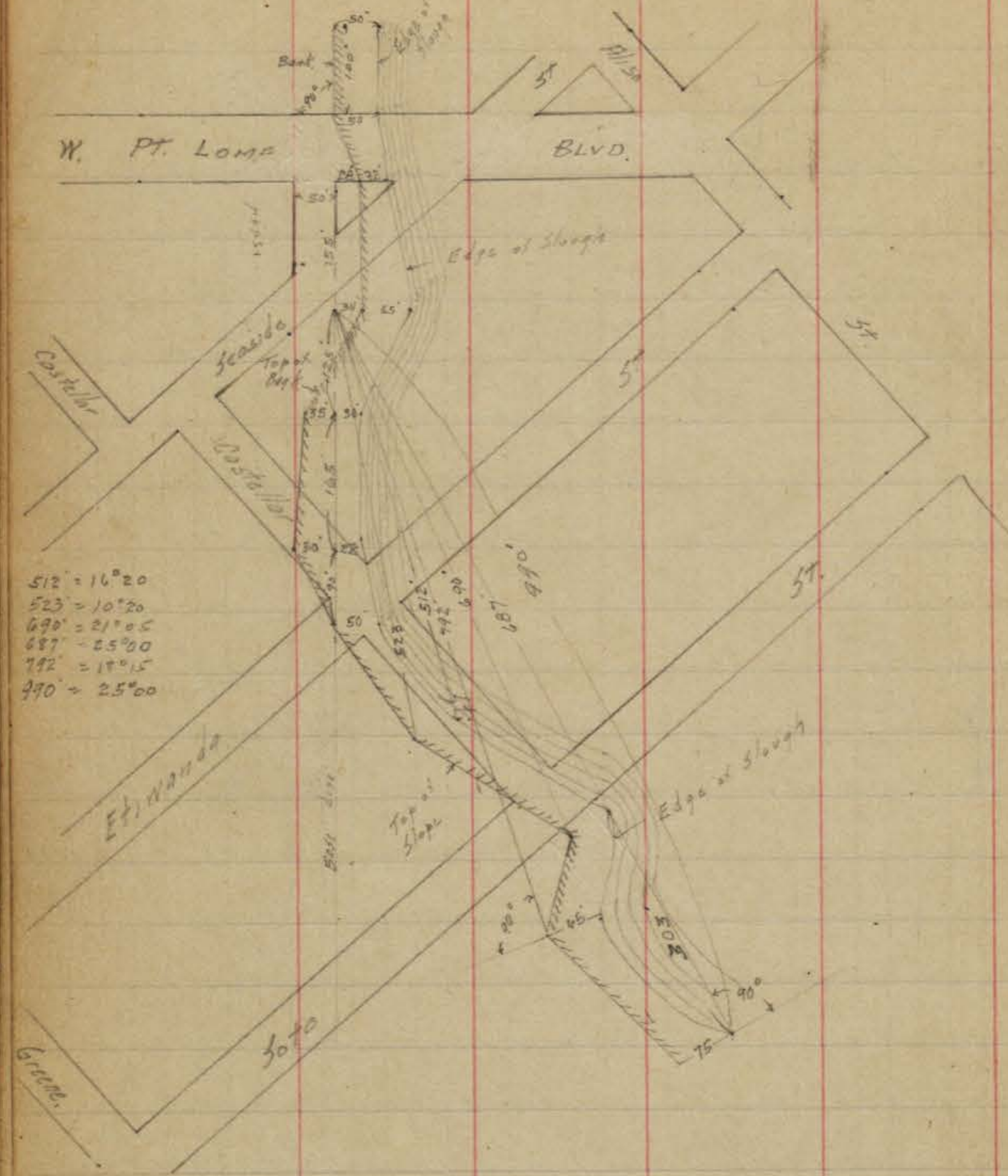






8/10/21  
Gregory Moore  
Shaw

Location of Slough  
in De Pun's Add.  
for Ocean Beach Assessment Map

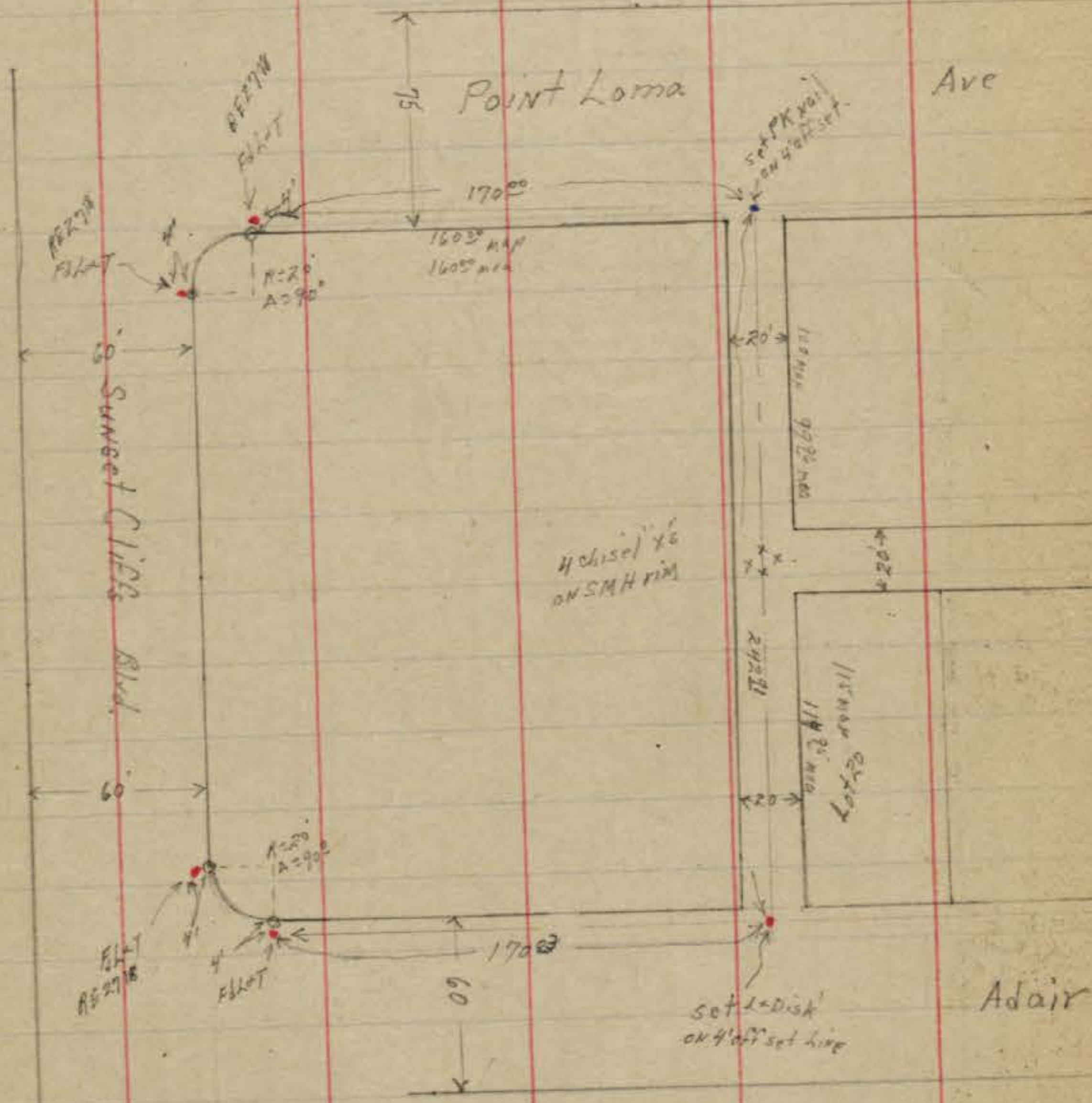


W020006  
1/29/54

# Survey BIK4 Sunset Cliffs #1889 sheet 3 of 5

✓ Discrepancy in BIK4 Lot 20 NWly line.

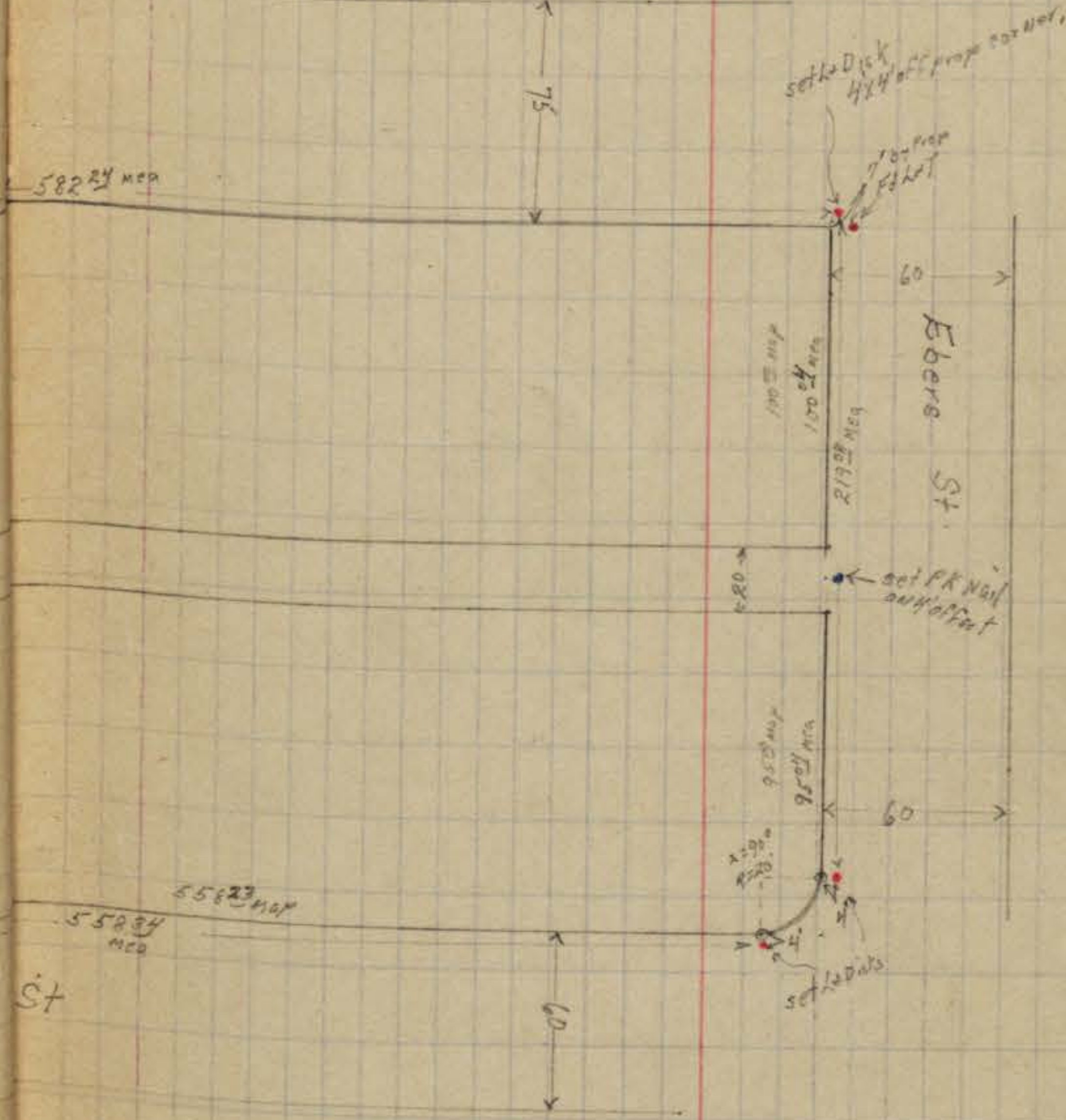
D. Smith  
J. Rorer  
R. Taylor  
B. Fish

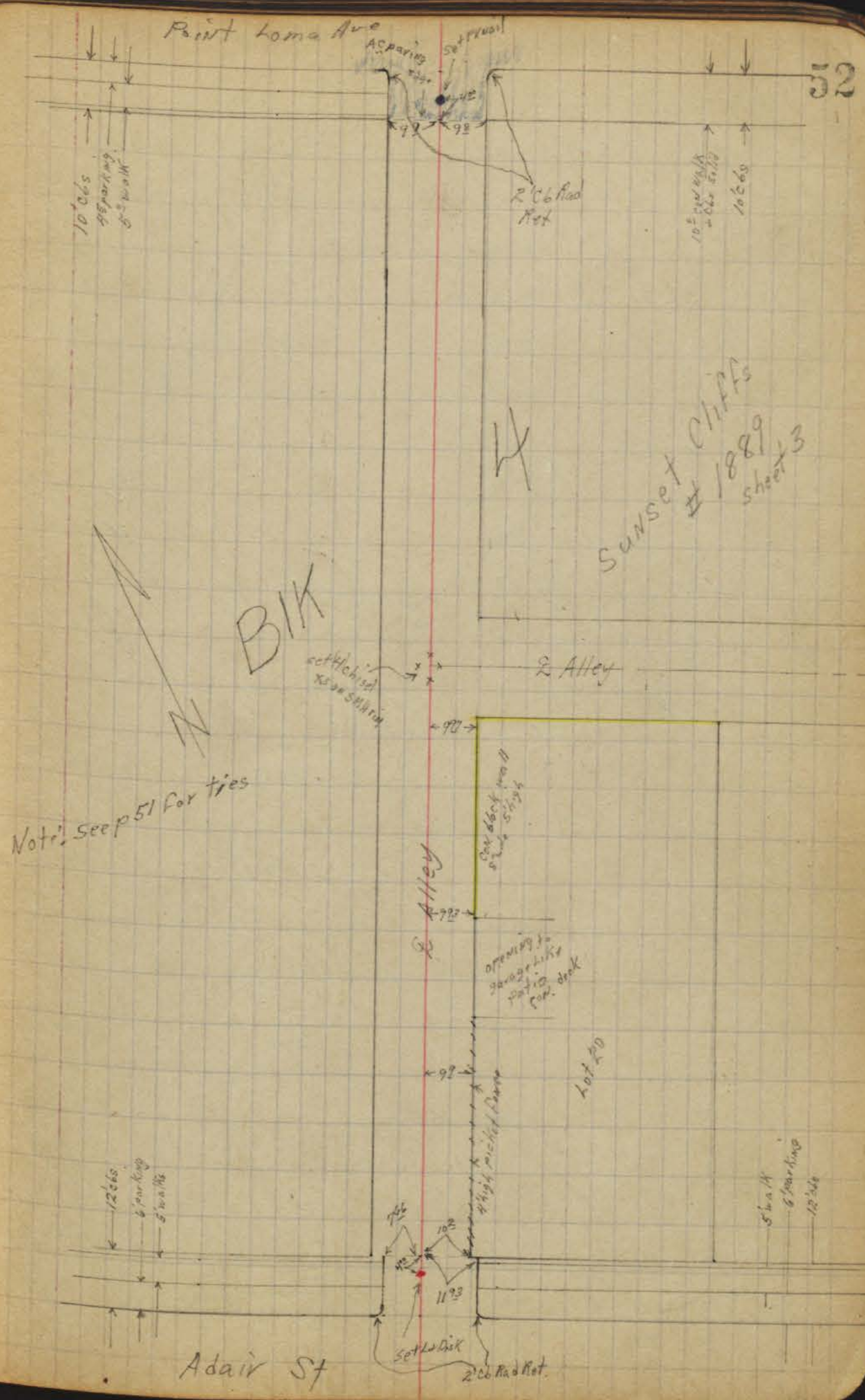


Note: see p 52 for detail sketch lot 20 and Alley

- 1/2" pipe
- D or set lot disk

INDEXED  
JER  
FEB 1  
1954





Point Loma Ave

Sunset Cliffs #1889 sheet 3

BIK

Note: see p 51 for ties

2 Alley

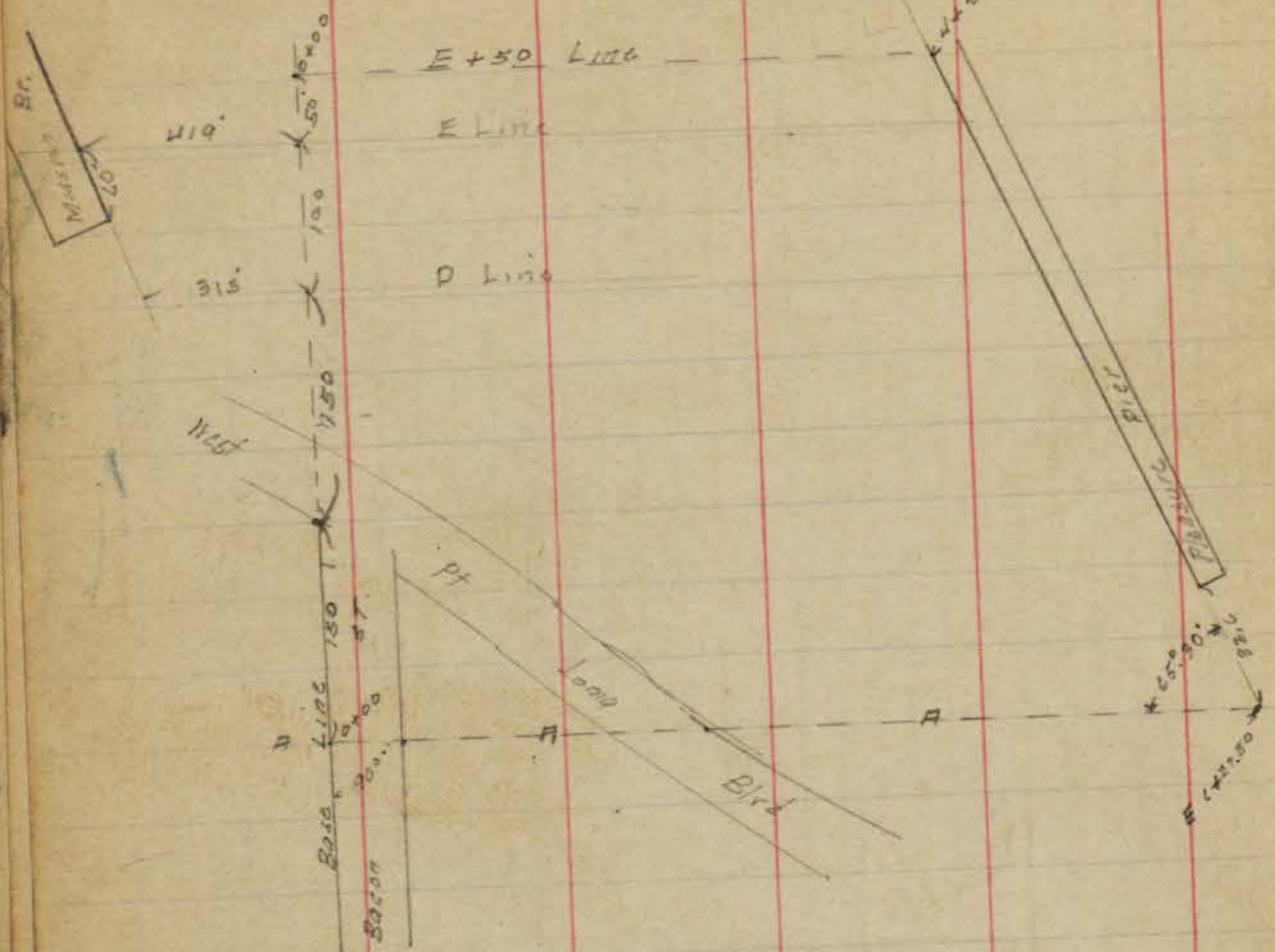
Alley

Lot 20

Adair St

2' 66' Rad. Not.

Levels on Proposed Playgrounds  
Ocean Beach



Lines E+W are lettered, Letters 100' apart.  
N+S are numbered

3.22 12.84  
2.46 2.56 12.74 0.10

1.52 NE Bacon  
& Refrain

Base Line = 0+00

C+33 = Top bank		+ 3.8	6.33
C+44	2.56	3.3	- 0.7
C+50		3.6	- 1.0
D		4.6	- 2.0
D+50		5.6	- 3.0
D+60		5.5	- 2.9
E		5.2	- 2.6
E+50		4.4	- 1.8
E+60		4.3	- 1.7
F		8.0	- 5.4
F+50	2.56	8.5	- 5.9

0+50 East.

F+50	2.56	7.9	- 5.3
F		6.0	- 3.4
E+80		4.4	- 1.8
E+50		4.7	- 2.1
E		5.5	- 2.9
D+90		6.2	- 3.6
D+50		5.5	- 2.9
D		4.4	- 1.8
C+90		3.7	- 1.1
C+83		2.1	+ 0.5
C+50	2.56	3.2	- 0.6
C+20	9.93	9.8	- 0.5
C+11		2.2	+ 7.1

Top bank

	1+00 E	sec 1+25	Top bank
B+80	9.33	3.1	6.2
B+91		11.4	-2.1
C	9.33	11.4	-2.1
C+06.0		9.1	+0.2
C+50	2.56	2.5	+0.1
C+90		1.4	+1.2
C+98		4.1	-1.5
D		5.1	-2.6
750		5.6	-3.0
E		6.2	-3.6
+50		4.8	-2.2
F		4.7	-2.1
+50	2.56	7.5	-4.9
G+50	1+50	sec 1+25	
G	2.56	7.6	-5.0
F+50		7.5	-4.9
F		6.8	-4.2
E+50		4.7	-2.1
E		5.3	-2.7
D+50		5.6	-3.0
D		5.9	-3.3
C+50	2.56	5.6	-3.0
C	9.33	6.4	-3.8
B+73		13.2	-3.9
B+69		10.1	-0.8
B+50	9.33	6.4	+2.9
		3.6	+5.7
	2+00	sec 2+40	Top bank
B+50	9.33	5.1	+3.9
B+99		7.7	+1.6
C		11.4	-2.1
C+25	9.33	11.4	-2.1
C+50	2.56	6.9	-4.3
D		6.0	-1.4
D+50		6.1	-1.5

	2.56		
E	2.56	5.7	-3.1
+50		5.4	-2.8
F		5.4	-2.8
+50		4.4	-1.8
G		6.6	-4.0
G+50		7.2	-4.6
H	2.56	7.5	-4.9
	sec 2+40	2+50	sec 2+60
H	2.56	6.9	-4.3
G+50		6.6	-4.0
G		4.3	-1.7
F+50		5.5	-2.9
F		5.4	-2.8
E+50		5.2	-2.7
E		5.6	-3.0
D+50		6.0	-3.4
D		6.1	-3.5
C+50		6.9	-4.3
C		7.0	-4.4
B+60		7.1	-4.5
B+50	2.56	5.4	-2.8
B+40	9.33	5.9	+3.4
	sec 2+60	3+00	
H+83	9.33	4.8	+4.5
B	9.33	8.6	+0.7
+25	2.56	7.0	-4.4
+50		7.1	-4.5
C		7.3	-4.7
+50		6.5	-3.9



D	2.56	5.6	-3.0
+50		5.3	-2.7
E		5.2	-2.6
+50		5.2	-2.6
F		5.5	-2.9
+50		5.8	-3.2
G		6.0	-3.4
+50		4.4	-1.8
H	2.56	6.7	-4.1
	3+50		
G	2.56	5.4	-2.8
F+50		5.4	-2.8
F		5.4	-2.8
E+50		5.4	-2.8
E		5.5	-2.9
D+50		5.6	-3.0
D		7.7	-5.1
C+50		7.6	-5.0
C		7.5	-4.9
B+50	2.56	7.4	-4.8
B	9.33	13.5	-4.2
A+65		11.3	-3.0
A+50		6.0	+3.3
A+45	9.33	3.7	+5.6
	3+75 ←		
B	9.33	13.5	-4.2
A+50		9.9	-0.6
A+45		9.7	-0.4
A+31	9.33	7.9	+6.4

Line of Pleasure Pier

F+50	2.56	4.8	-4.2
F		5.2	-2.6
E+50		5.5	-2.9
E		5.9	-3.3
D+75		6.2	-3.6
D+50		7.7	-5.1
D		7.7	-5.1
C+50		7.6	-5.0
C		7.8	-5.2
B+50		8.4	-5.8
B		6.2	-3.6
A+75 App.	2.56	4.2	-1.6
	9.33	4.9	4.4
			bottom = end pier
			Top
A+10	9.33	3.7	+5.6
A+40		6.2	+2.5
A+50		7.3	+2.0
A+61		10.6	-1.3
A+90		13.2	-3.9
B+50	2.56	13.8	-4.5
		7.7	-5.1
C		7.8	-5.2
C+50		8.0	-5.4
D		7.9	-5.3
D+50	2.56	7.5	-4.9

1+28 East.

C+50	n.56	1.9	+ 0.7
C+65		1.4	+ 1.2
C+70	n.56	4.0	- 1.4

2+60 East

B+50	n.56	6.8	- 4.2
TP.		3.65	- 1.09
A+50	4+50 9.33	5.1	+ 4.2
A+58		10.1	- 0.8
A+54		13.3	- 4.0
B	9.33	13.9	- 4.6
B+50	n.56	7.9	- 5.3
c		7.8	- 5.2
C+50		7.8	- 5.2

5+00

A+50	9.33	4.0	+ 5.3
A+60	9.33	11.4	- 2.1
B	9.33	13.7	- 4.4
B+50	n.56	8.1	- 5.5
C	n.56	8.0	- 5.4

5+50

A+50	9.33	1.9	+ 7.4
A+63		3.6	+ 5.7
A+73		11.0	- 1.7
A+86		13.0	- 3.7
B	9.33	13.5	- 4.2
B+50	n.56	8.4	- 5.8

1+85 E

B+99	9.33	7.1	+ 2.2
C	9.33	11.7	- 2.4

2+40

C	9.33	13.9	- 4.6
B+68		14.2	- 4.9
B+59		11.4	- 2.1
B+50	9.33	5.9	+ 3.4

4+80

A+41	9.33	4.3	+ 5.0
A+50		7.1	+ 2.2
A+57		10.4	- 1.1
A+83		13.2	- 3.9
B	9.33	13.8	- 4.5

continued

Larvik West of Base Line

	6.33	6.43	0.10	
		0+50 west		
C+45		0.7	5.7	Top bank
C+55		6.7	-0.3	
D		8.3	-1.9	
+50		8.5	-2.1	
E		8.9	-2.3	
+37		8.1	-1.7	
+50		9.5	-3.1	
+75		12.1	-5.7	
F		12.5	-6.1	
		1400 west		
F		12.9	-6.5	
E+58		12.3	-5.9	
E+50		11.5	-5.1	
E+16		8.1	-1.7	
E		8.2	-1.8	
D+50		8.2	-1.8	
D+45		8.1	-2.0	
D		7.6	-1.7	
C+69		7.3	-0.9	
C+59		1.6	+4.8	Top Bank

	1450		
C+72	2.9	+3.5	Top bank
C+81	6.7	-2.3	
D	7.6	-3.2	
D+50	8.0	-1.6	
D+89	7.7	-1.3	
E	9.3	-2.9	
E+16	11.9	-5.4	
E+50	12.6	-6.2	
F	13.0	-6.6	
		N+00	
E+50	12.9	-6.5	
E	11.8	-5.4	
D+77	10.7	-4.3	
D+60	7.6	-1.7	
D+50	7.5	-1.1	
D	7.7	-1.3	
C+91	7.4	-1.0	
C+83	2.9	+3.5	Top bank
		N+10 West	
C+83	3.0	+3.4	
D	5.8	+0.6	
D+08.0	7.4	-1.0	
		N+50 West	
C+95	3.5	+2.9	
D	5.1	+1.3	

643

D+38	6.6	-0.7
D+50	9.2	-2.8
D+72	12.0	-5.6
E	12.7	-6.3
E+50	13.1	-6.7

3+00 West

E+50	13.5	-7.1
E	12.8	-6.4
D+50	10.6	-4.2
D	5.0	+1.4

Top bank

3+15

D = on line of Mission Br.	4.5	+1.9
D+15	8.0	-1.6

Top bank

3+50

D+34	11	+2.3
D+50	9.4	-3.0
E	12.8	-6.4
E+50	13.4	-7.0

= top bank

4+00

E+50	13.7	-7.3
E+45	7.6	-1.7

4+19

E+00	14.0	-7.6
------	------	------

= Mission  
Bridge

58

Gregor Sidewalk yardage etc on  
shaw La Jolla Blvd from St  
Genter to Prospect

Build Return at SE Genter + La Jolla Blvd

NE cb	rod	5.2
2' back		4.8
3' -		3.3
Property corner		2.9

East Side N.L. Genter to Sea Lane

NE return	rod	
cb		5.0
1' back		4.8
3' -		3.8
property corner		3.5

N.L. of Genter

Property corner		3.5
3' from cb		3.7
1' -		4.8
cb		5.0

50' N. of Genter

cb		5.0
2' back		4.9
3' -		3.5
10' -		3.6

100' N

cb		5.1
2' back		5.0
3' -		3.8
10' -		3.7

140' N. of Genter

cb		5.1
1' back		4.8
3' -		3.9
10' -		3.7

143' N - cb. on St. Sea Lane.

cb		5.1
10' back		6.1

West Side La Jolla Genter to Sea Lane  
walk all out 9' cu yds to more

West Side Sea Lane to alley Blk 8  
walk all out no yardage.

East Side Sea Lane to alley Blk 2

cb on N.L. Sea Lane		5.1
prop. - - -		5.1

3' N. of cb Line of Sea Lane

cb		5.1
2' Back		5.1
3' -		4.0
10' -		3.9

50' N. of cb. Line Sea Lane

cb		5.2
2' back		4.9
3' -		4.0
10' -		3.7

These are rod readings not elev.

80' N of cb Line S.L.

cb	5.2
3' back	4.8
4' ✓	3.9
10' ✓	3.9

100' N.

cb	5.1
2'	5.3
3'	3.5
10'	3.5

150' N.

cb	5.0
3' back	3.7
10' ✓	3.5

S.L. Alley B/R ~

cb	5.0
10' back	4.7

N.L. Alley B/R ~

cb	5.1
10' back	4.9

2' N.

cb	5.1
2' back	4.1
10' ✓	3.7

Side ↑ East ↓

20' N

cb	rod
3' back	5.1
10' ✓	4.1
	3.5

98' N. = P.C.

cb	5.1
4' back	4.3
10' ✓	4.4

25' N. of PC on curve

cb	5.1
4' back	5.1
5' ✓	4.0
10' ✓	4.2

50' N. of PC on curve

cb	5.0
3' back	4.7
4' ✓	3.6
10' ✓	3.8

65' N. of PC

cb	5.1
2' back	4.7
3' ✓	3.0
10' ✓	3.3

100' N. of P.C. = End of Curb.

cb	4.9
1' back	4.7
2' ✓	3.3
10' ✓	3.3

Side ↑ East ↓

Rod Readings Not Elev.

West Side from Alley in Blk 8 to 50 N.  
 Walk out, 3.5 cu. yds to more.

East Side from N.L. Marine

N. cb Marine cb 5.0  
 10' back 5.0

2' N. of Cb Line

cb 5.0  
 10' back 4.0

10' N. of Cb L. = N.L. Marine

cb 5.0  
 3' back 4.0  
 10' ✓ 3.5

50' N. of N.L.

cb 5.0  
 3' back 3.8  
 10' ✓ 3.4

100' N.

cb 5.1  
 2' back 4.6  
 10' - 4.0

135' N.

cb 5.0  
 2' back 4.5  
 3 ✓ 3.9  
 10 ✓ 3.8

<sup>11.5</sup> 138.5(?) = N.L. of F.T. Scripps's Add = 5. end of walk  
 cb 5.0  
 10' back 4.8

West Side Blk 15 La Jolla Park.  
 Walk is in from S.L. of Prospect to a point  
 173' 3". measured on Curb Lines.

# JENNER ST.

## West Side

Walk and curb all out on West side from  
this pic is taken from SW cor Coast & Jenner  
144.5 So. of S.L. of Coast Boulevard South  
to N. End of Jenner including returns.

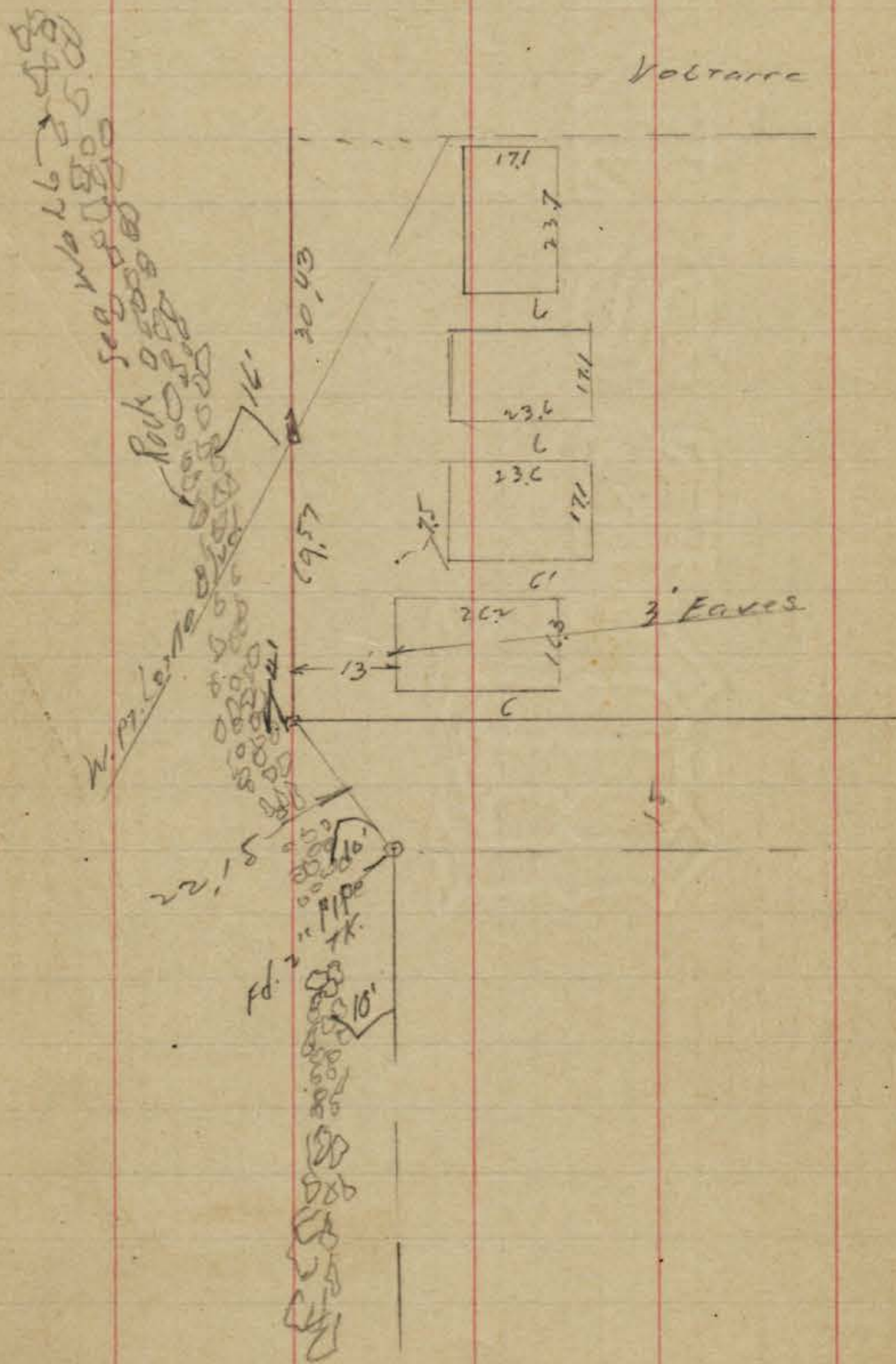
## East Side

Walk + curb out on East side from  
N.L. of Coast Blvd. South to a point 105' N  
measured on Prop. Line also return NE cor  
of Jenner + Coast Blvd. S.

Also w+c out from S.L. of Coast Blvd  
S to S.L. of Lane in Blk bet Prospect + - -  
✓

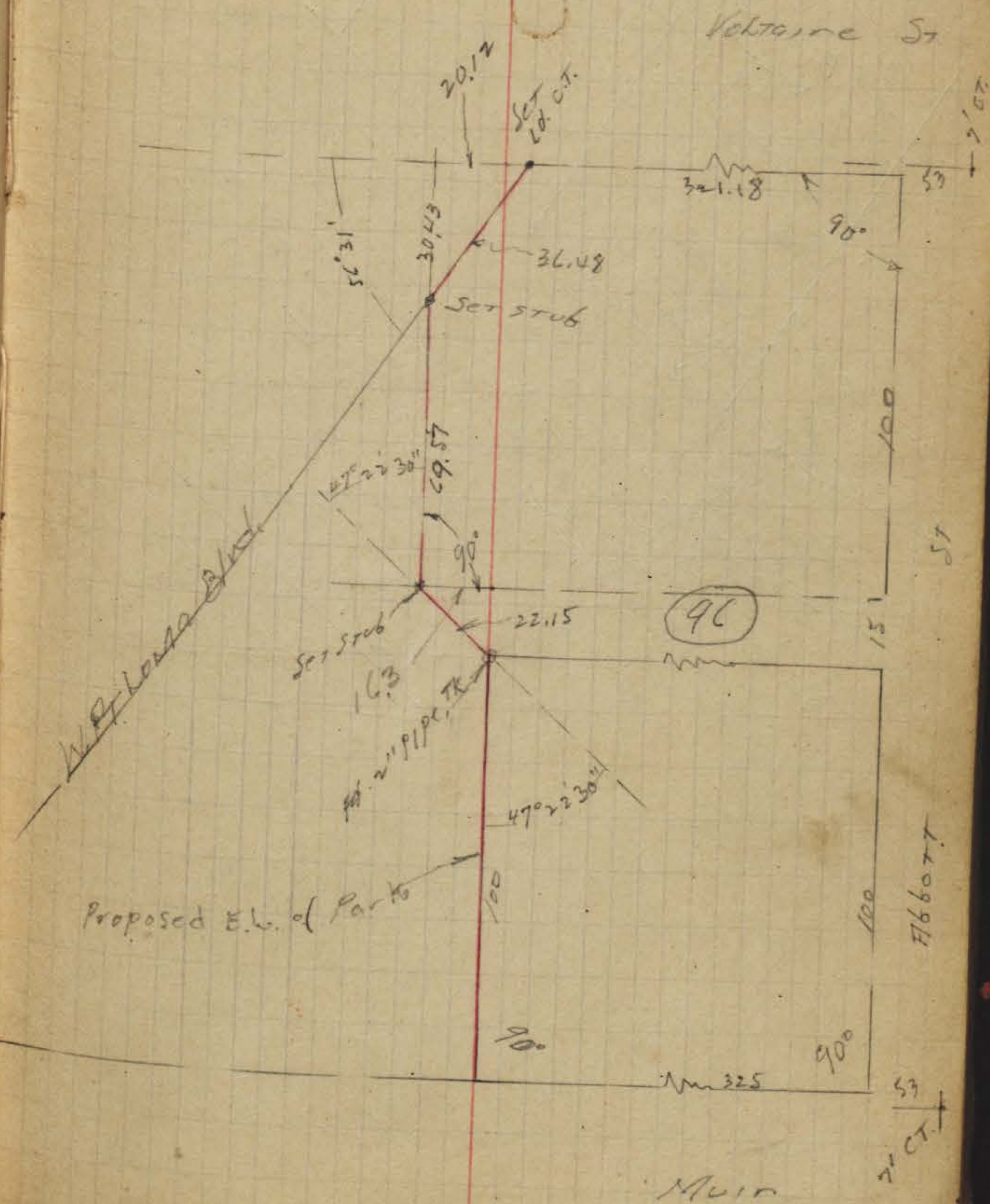


Moore  
 Surveyor  
 Survey Bk. 96 Ocean Bay Beach  
 1-29-45.

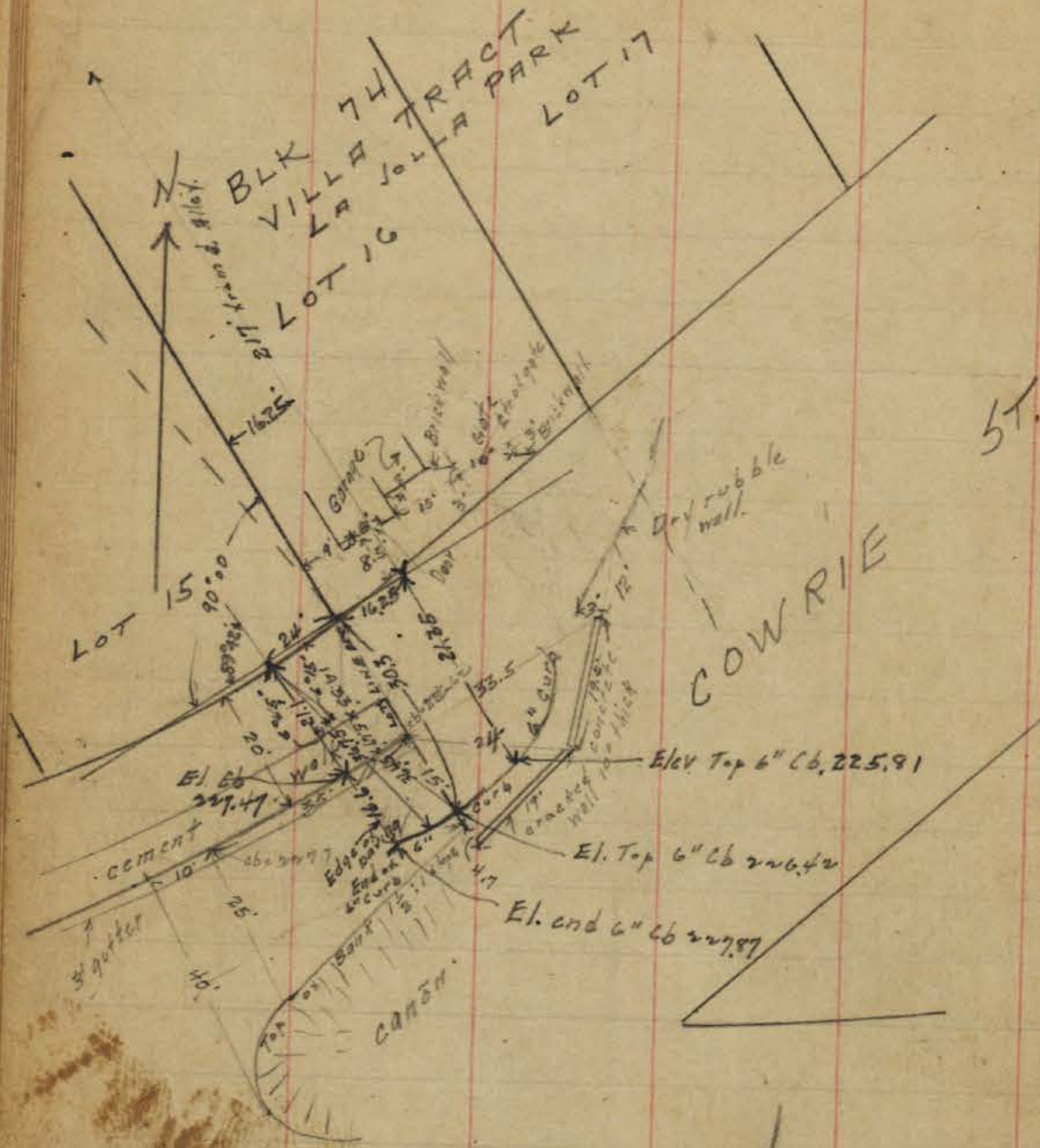


Indexed  
 C.S.K.

63



Gregory Shaw Location of Improvements on Cowrie St



Platted  
 Rev  
 2/24/20

203.10  
 18.11  
 216.21  
 013  
 216.21  
 12.76  
 227.24

226.92 = end of cb 154 = cb 35 west of End

230 = gutter at end of cb. 225.59 = west end of conc. wall.

220 = road 15 ft. at End of cb. 180 = 25 ft. W of end of cb = 12' S. in road.

226.65 = floor of garage 225.2 = ground in ctr of gate

224.6 = ground east of gate 224.0 = ctr of rubble wall

224.8 = East end of concrete wall 225.9 = road way 4' east of end of cb. prop.

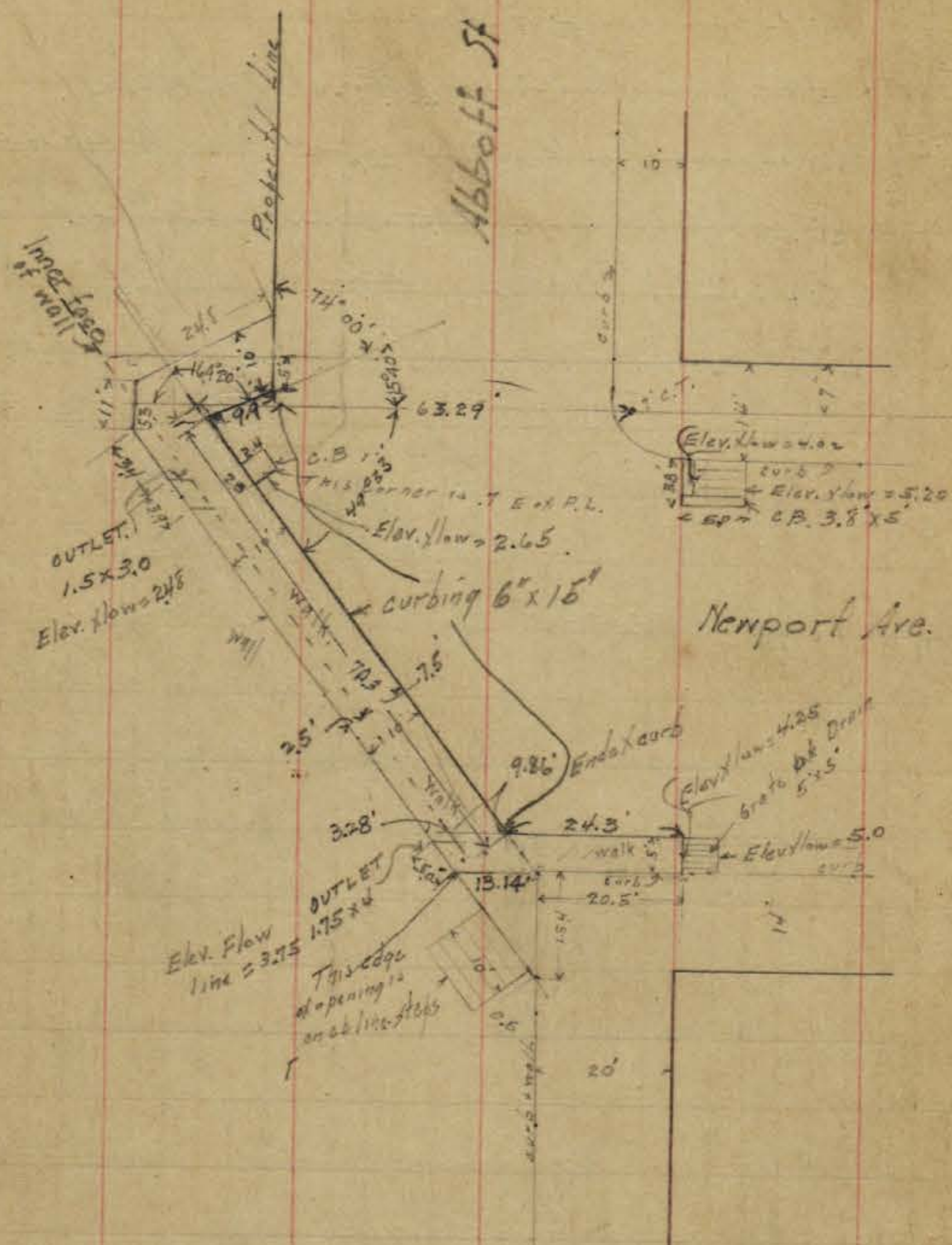
✓  
 JWS 3/20/20

246.68  
 4.70  
 231.38

557 496 551 30  
 225.81 224.2 227.87 274.7

4/13/10  
 George  
 Moore  
 Miller

IMPROVEMENTS AT NEWPORT  
 AND ABBOTT



64.73  
 49.33  
 15.40  
 170.00  
 11.00

4.25	4.41	5.11
4.35	4.41	5.11
6.00	17.10	24.00
	2.00	5.00

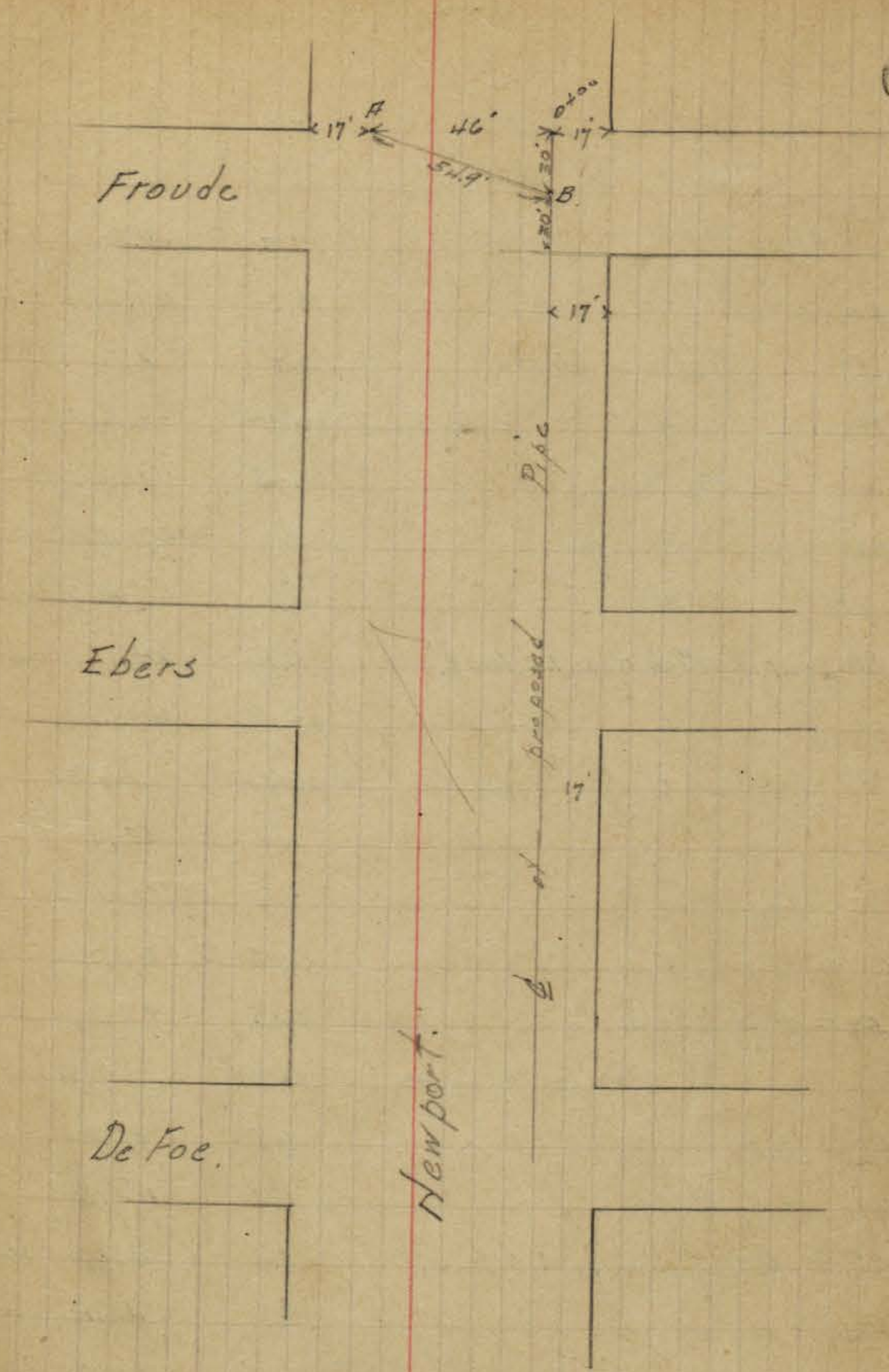
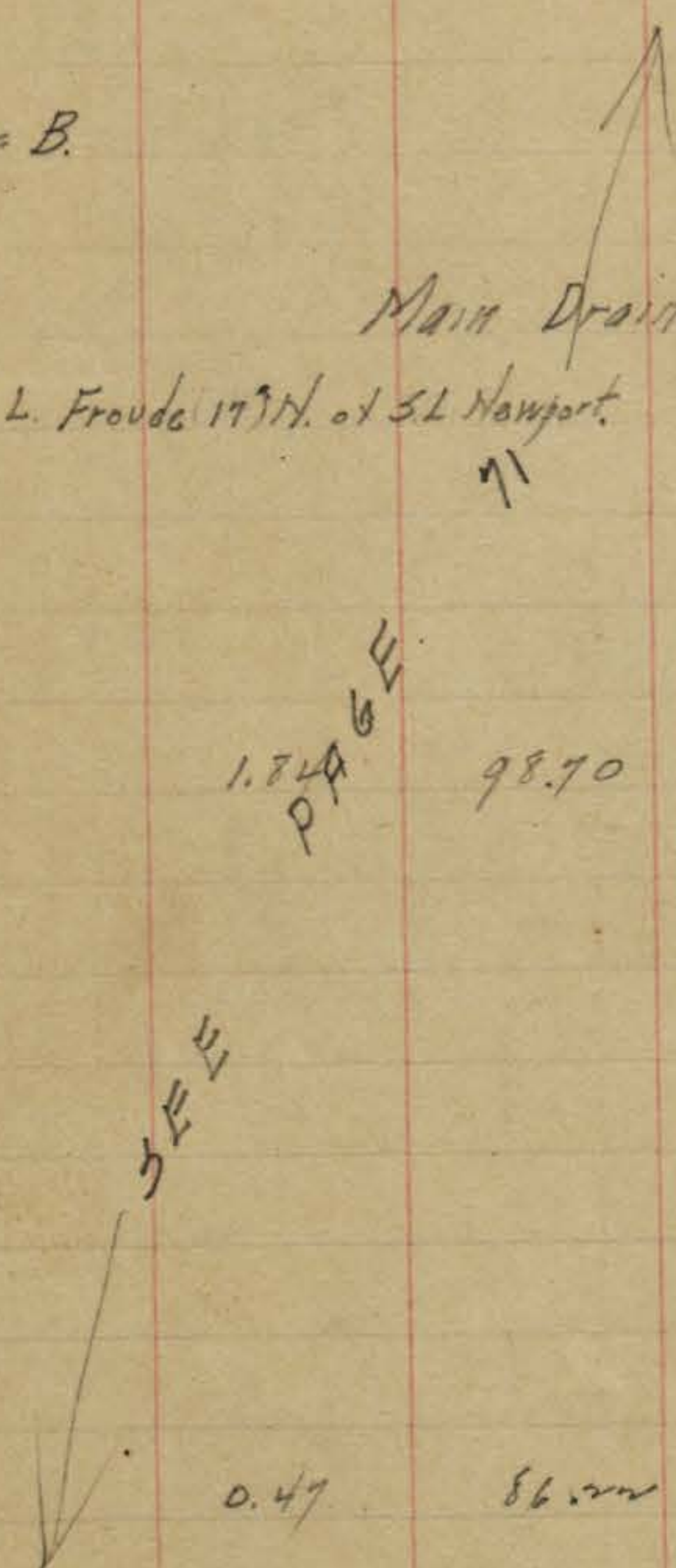
05

10.65 MB

5.41	6.43	5.61	6.40	5.11	8.17
5.20	4.00	5.00	4.21	1.70	2.48
				6.70	
				3.75	

2/10/21  
 Gregor Miller Shaw  
 Levels for Drain  
 Newport St  
 from Froude to De Foe

	1.144	109.82	108.38	✓	Mon NE Froude + Newport
"A" = E.L. Froude 17' S of N.L. Newport.	3.3		106.5		
A + 25	3.2		106.6		
A + 45	3.8		106.0		
A + 50	6.2		103.6		
+ 54.9 = B.	6.2		103.6		
Main Drain					
0+00 = E.L. Froude 17' N. of S.L. Newport.	5.1		104.7		bottom ditch
0+30	7.1		103.6	✓	✓
0+60	7.6		102.2	✓	✓
1+00	10.9		98.9	✓	✓
TP	1.744	98.70	12.96	96.86	
1+45	2.4		96.3	✓	✓
+ 50	4.7		94.0	✓	✓
+ 89	7.8		90.9	✓	✓
+ 93	12.2		86.5	✓	✓
2+00	12.5		86.2	✓	✓
2+18	12.5		86.2		ditch 2' 5" 1' lower
2+19	10.1		88.6		ditch 3' 5" 3' 10"
TP	0.47	86.22	12.95	85.75	
2+55	4.3		83.9		
2+56	5.4		80.8		ditch 2' 3" 4"
2+62	5.1		81.1		- 9' 5" 7.2"
2+64 = Top of Ditch	4.2		84.0		



3+00	Top Edge of ditch	5.5	80.7	ditch 5'3" = 10' 10"
3+45	" " " "	10.2	76.0	" " 4'47" ✓
3+46	" " " "	17.7	68.5	" " 3'40" ✓
3+55	" " " "	18.6	67.6	" " 2'40" ✓
3+63	Top edge of ditch	11.7	74.5	" " 6'47.5" ✓
T.P.	0.18	73.48	129.2	73.30
4+00	Edge is 6'5"	7.5	71.0	ditch 10'5" = 58.5"
4+32	" " of ditch	6.1	67.4	
4+35	" " " "	8.1	65.4	ditch 9'5" = 1.3"
4+59	Inlet of 18" sheet pipe 1.5' 3.0' 6."	9.4	64.1	Flow line = 2' 6"
5+00	" " " "	12.8	60.7	
T.P.	0.27	60.80	129.5	60.53
5+50	" " " "	4.9	55.9	
5+70	" " " "	7.2	53.6	
6+00	" " " "	9.5	51.3	
6+59	E.L. Ebers	12.8	48.0	
T.P.	1.30	49.23	12.87	47.93
7+00	" " " "	3.8	45.4	
7+19	W.L. Ebers	4.9	44.3	
7+27.5	Outlet 18" pipe 1.5' 3.0' 6"	7.6	41.6	Flow line 0' 1"
7+50	" " " "	8.8	40.4	in ditch
8+00	" " " "	10.5	38.7	✓ ✓
8+50	" " " "	11.9	37.3	✓ ✓
T.P.	0.35	37.02	14.56	36.67
9+00	" " " "	1.2	35.8	✓ ✓
9+50	" " " "	4.9	34.3	✓ ✓

10+00	4.0	33.0
+50	5.3	31.7
11	6.2	30.8
+50	7.6	29.4
12	8.7	28.3
+50	9.8	27.2
13	10.8	26.2
+18 = E.L. De/oc.	11.1	25.9
+78.0 = WL	12.4	24.6

Levels 3' S. of N. 66 Newport

12.37.02

W.L. Defoc. = 0+00			12.4	24.6	
0+60 = E.L. Defoc			10.9	26.1	
0+78			10.7	26.3	
1+78			8.4	28.6	
2+78			5.4	31.6	
3+78			3.5	33.5	
4+78			1.4	35.6	
T.P.	12.77	49.44	0.35	36.67	
5+78			10.9	38.5	↳ Ditch
6+28			8.2	41.2	✓ -
6+78			6.9	42.5	✓ -
7+00			4.3	45.1	✓ ✓
7+50			0.1	49.3	ditch 10' N + 1' W
T.P.	12.82	62.21	0.05	49.39	
8+00			8.7	53.5	ditch 10' N + 1.5' W
+50			4.7	57.5	N. ditch
9			0.4	61.8	✓ -
T.P.	12.95	74.96	0.20	62.01	
+50			7.9	67.1	ditch 7' N + 1.8' W
10			3.5	71.5	- 5' N + 1.4' W
T.P.	12.87	87.31	0.52	74.44	
+50			10.6	76.7	ditch 6' N + 2.4' W
11+00			5.7	81.6	✓ 5' + 2.2'
11+50			1.3	86.0	✓ - - 2.6'
T.P.	12.62	99.74	0.19	87.12	

08

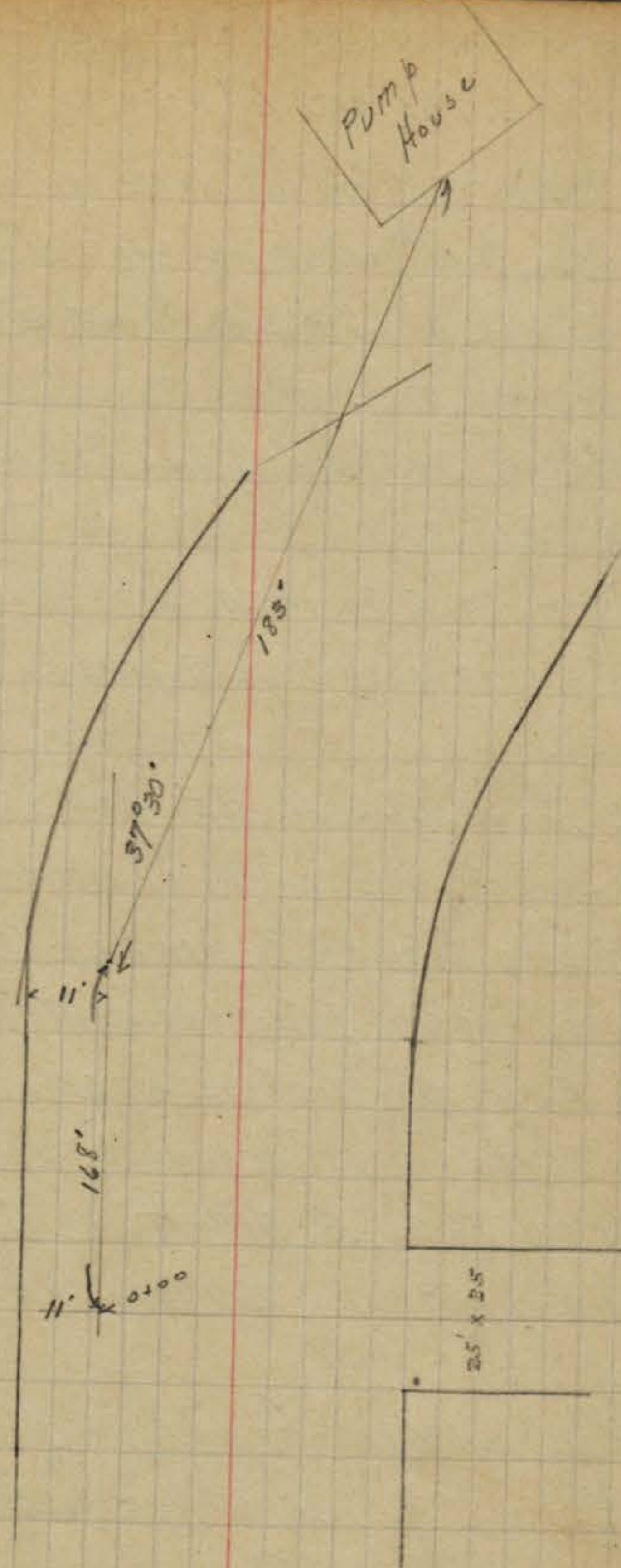
12+00	8.0	91.7	ditch 5' N + 1.4' W
12+50	3.0	96.7	↳ ditch
T.P. 9.93	0.40	99.34	
13+18 = W.L. Froude	6.3	93.4	
on initial B.M.	0.86	108.41 = 35	

2/10/21  
Gregory  
Miller  
Shaw

Levels on proposed  
Drain Abbot +  
W Pt Loma Blvd  
see sketch opposite page  
for location

	4.56	7.03	2.47	BPSW Yolfairred/100
0+00 = @ of Lotus		5.4	1.6	
1+00		5.4	1.6	
1+68 - Δ pt		5.1	1.9	
2+18		5.3	1.7	
2+68		5.7	1.3	
3+09		5.5	1.5	
3+15		8.3	-1.3	
3+25		9.1	-2.1	

472  
209



Gregory  
Miller  
Shaw

Abbott St Curb Notes  
curbs are 6" wide on top 15" deep.

Return is in on West Side Abbott + S. Side of  
W. Pt. Loma Blvd. put in previous to closing the latter  
Returns in on W. Side Abbott at Lotus which were  
put in previous to closing

Returns in alley W side Abbott between Voltaire  
+ Lotus

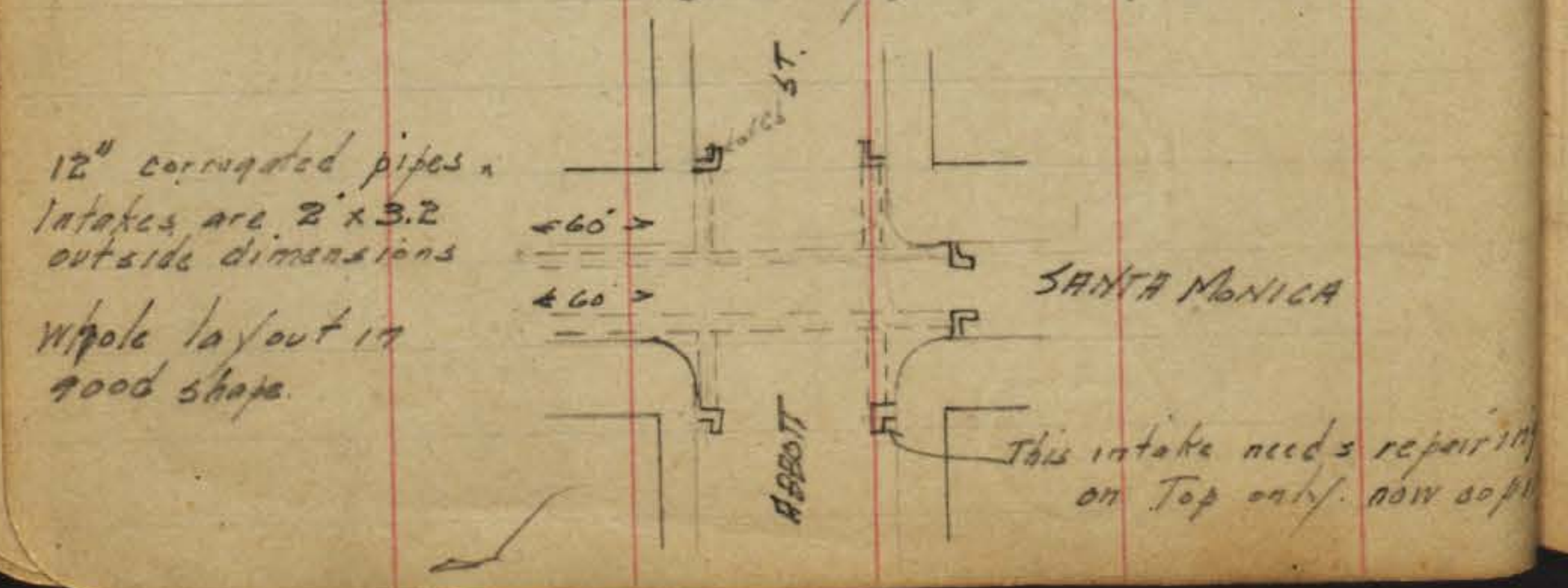
From 83.5 to 105.5 S. of Moir on W side  
Abbott curb should be repaired. Does not need  
replacing.

3' <sup>of curb</sup> on E. End of N.E. return should be repaired

Alley returns not in on either side of Abbott  
between Long Branch + Brighton. Can't see the necessity  
of paving the entrances to these alleys anyway. If  
it is done new curb is necessary from 2' N. + S.  
of. Alley lines around a 2' radius to the  
respective lines of Abbott.

Alleys between Brighton + Cape May same as  
above.

Alley between Cape May + Saratoga ditto  
Saratoga + Santa Monica



12" corrugated pipes  
Intakes are 2' x 3.2'  
outside dimensions  
Whole layout is  
good shape.

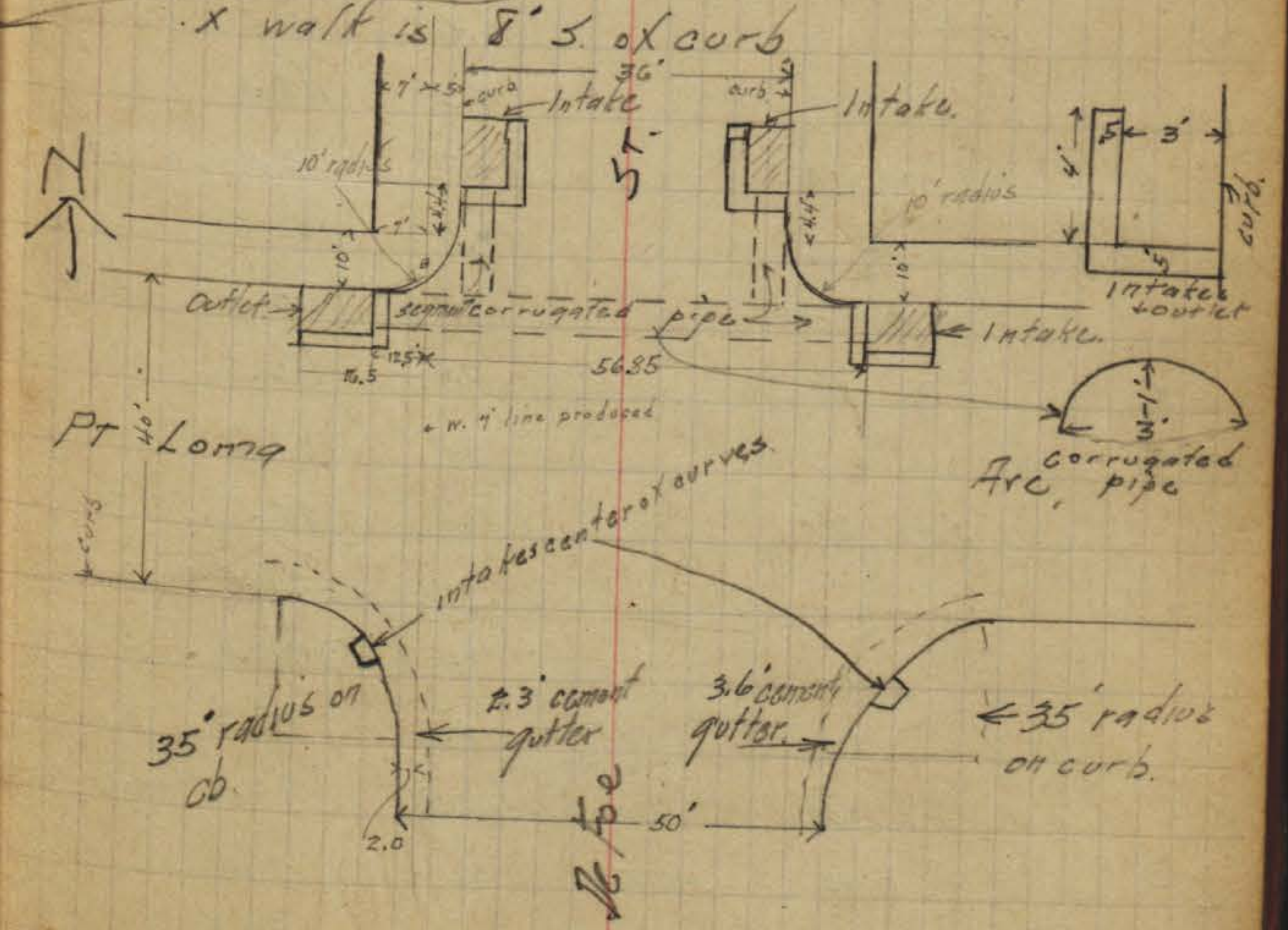
This intake needs repairing  
on Top only. now soffit

Return is not in on N.W. corner Abbott + Santa Monica.  
Curb is not in on W. Side Abbott from 98.2' S. of  
Santa Monica to 139.7 S. of Santa Monica also from  
181.3 S. of S.M. to N.L. Newport.

Alley on E Side of Abbott bet. Santa Monica  
+ Newport has no returns, same as alleys  
mentioned above.

Newport.

Alley S Side Newport E. of Abbott is in the  
same condition as. Has 3' cross walk centered  
x walk is 8' S. of curb



PT Loma

35' radius on  
C.B.

2.3' cement  
gutter

3.6' cement  
gutter

35' radius  
on curb.



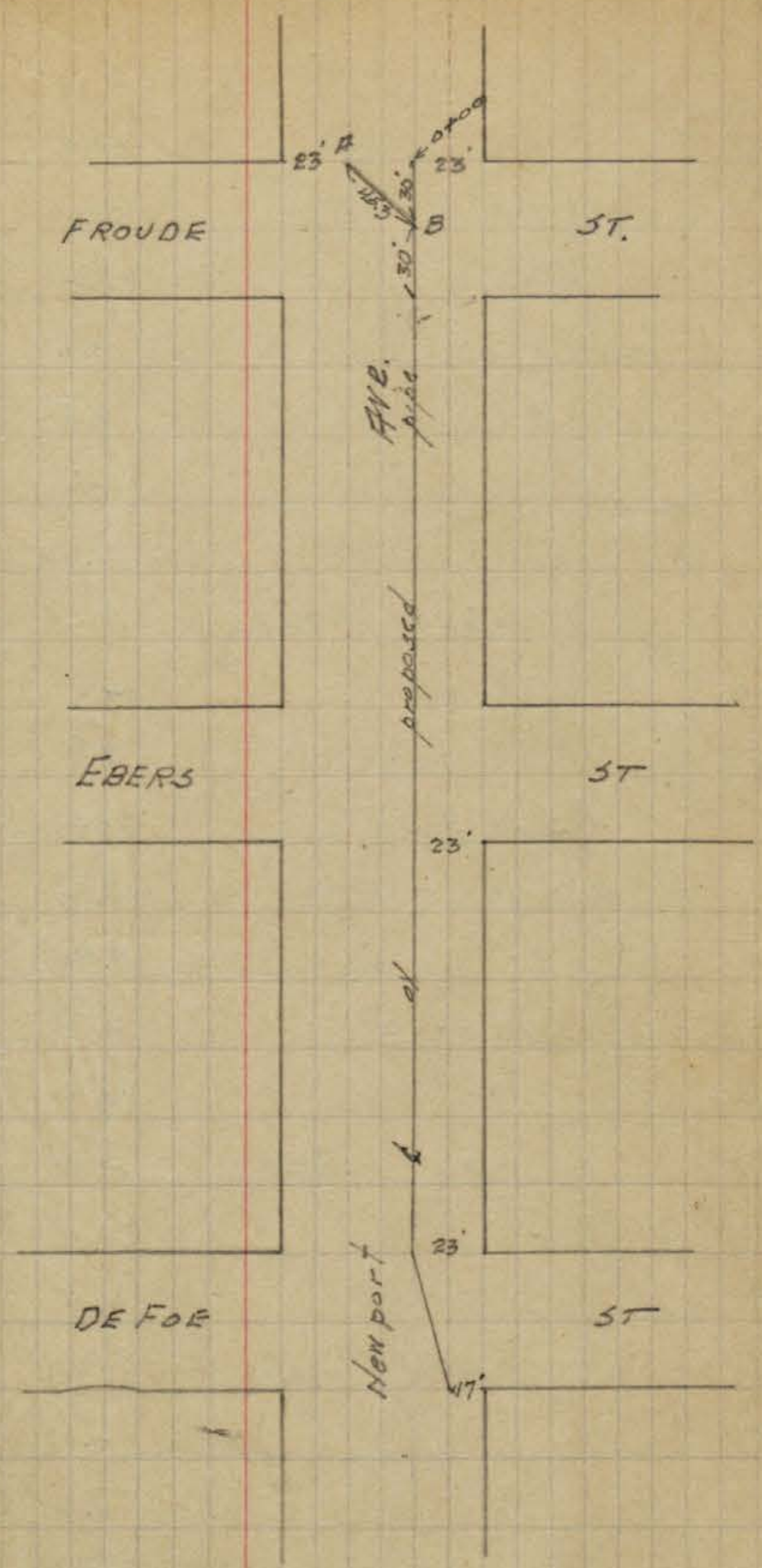
4 5 21

Gregory  
Moore  
Miller  
Shan

Levels for Drain  
Newport Ave.  
from Froude to DeFoe

Station	Distance	Height	Elevation	Notes
	1.74	110.12	108.38	Mon H.E. Froude + Newport
A = EL Froude 23' S of N.L. Newport.	3.4		106.7	
A+22	3.6		106.5	
A+41	4.5		105.6	
A+45.3 = PT B	6.6		103.5	
Main Ditch				
0+00 = EL. Froude.	2.9		107.2	
5' S. of 0+00	(5.3)		104.8	ditch
0+16	4.1		106.0	
1' S. of 0+16	(6.1)		104.0	ditch
0+30	6.6		103.5	ditch
0+31	5.3		104.8	
1' S. of 0+31	(6.7)		103.4	ditch
0+60 = W.L. Froude	6.6		103.5	
2' S. of 0+60	(7.9)		102.4	ditch
0+65	7.6		102.5	
1+00	9.9		100.7	
1' S. of 1+00	(11.4)		98.7	ditch
1+02	12.1		98.0	✓
1+16	13.5		96.6	✓
1+30	12.9		97.2	
1' S. of 1+30	(13.9)		96.7	in ditch
T.P.	0.43	97.51	13.02	97.08
1+50			2.1	95.4
1+99			7.4	90.1
3' S. of 1+99	(11.1)		86.4	in ditch

71  
71



		97.51			
2+01			10.0	87.5	in ditch
2+12			10.4	87.1	✓ ✓
2+15			8.4	89.1	
2+32			10.5	87.0	
2+41			13.8	83.7	
2+59			14.4	83.1	
2+60			13.1	84.4	
T.P.	0.05	84.83	12.73	84.78	
3+00			4.4	80.4	
3+50			8.8	76.0	
	4' 3.0 x 3+50		(14.3)	70.5	
	9' " " "		(16.8)	68.0	small part of ditch
3+60			9.7	75.1	
	8' 3.0 x 3+60		(16.8)	68.0	
4+00			13.8	71.0	
T.P.	0.36	72.39	12.80	72.03	
+50			6.4	66.0	
5			11.5	60.9	
T.P.	0.40	60.13	12.66	59.73	
+50			4.0	56.1	
6			8.2	51.9	
	+59 = E.L. Ebers		12.1	48.0	
T.P.	0.04	47.63	12.54	47.59	
7			1.8	45.8	
+14			2.8	44.8	
+19 = W.L. Ebers			4.6	43.0	

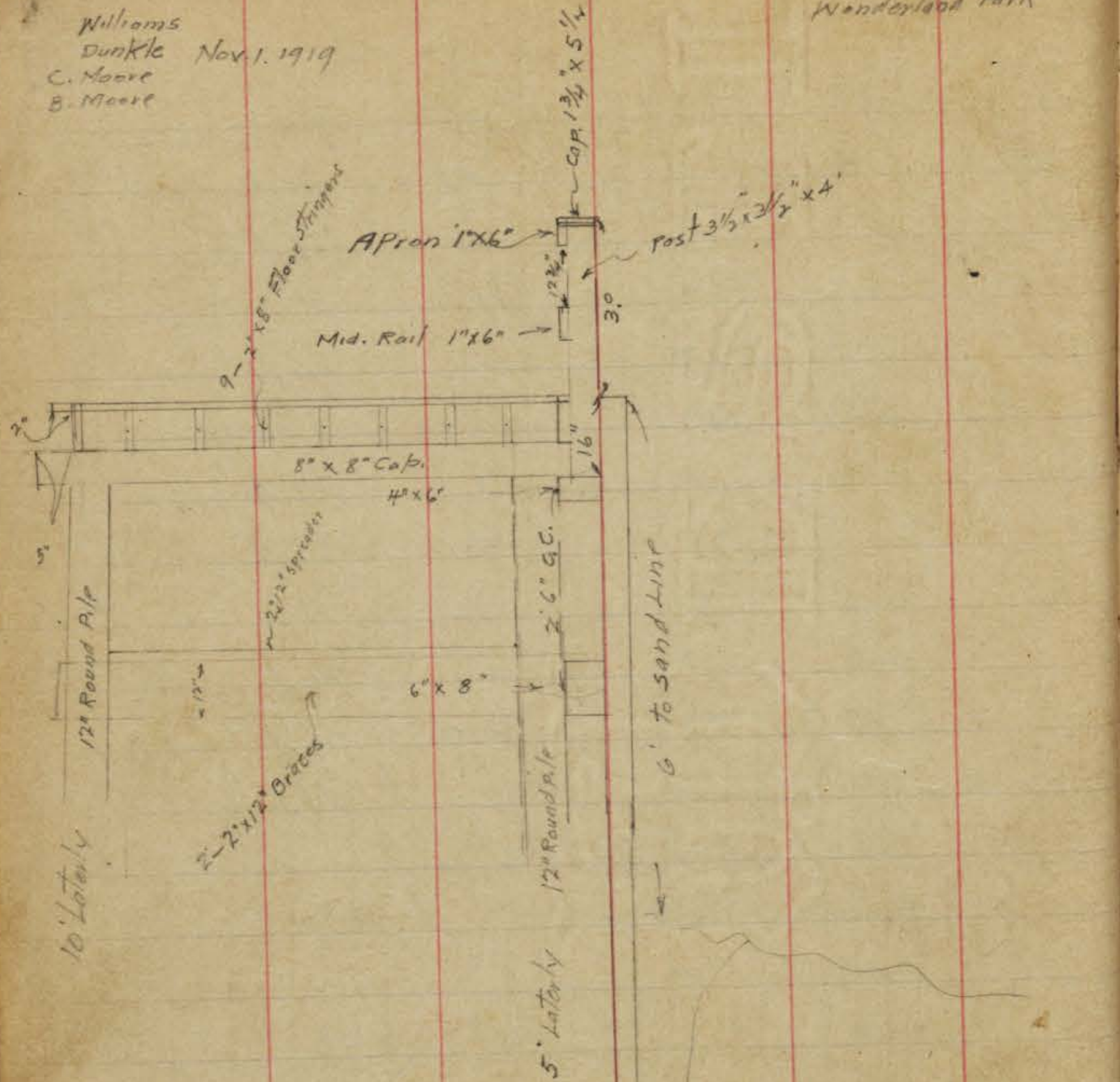
660  
1570 47.63

72  
72

7+33			4.5	43.1	
+41			6.2	41.4	
8			8.7	38.9	
+50			10.4	37.2	
9			11.8	35.8	
T.P.	0.97	36.67	11.93	35.70	
10			3.7	33.0	
11			6.1	30.6	
12			8.4	28.3	
13			10.4	26.3	
	+18 = E.L. De Foe		10.7	26.0	
	+783 = W.L. ✓		12.0	24.7	
	14' return SE. of De Foe				

Survey of Bulkhead + Walk Ocean Beach West of Voltaire St.  
Wonderland Park

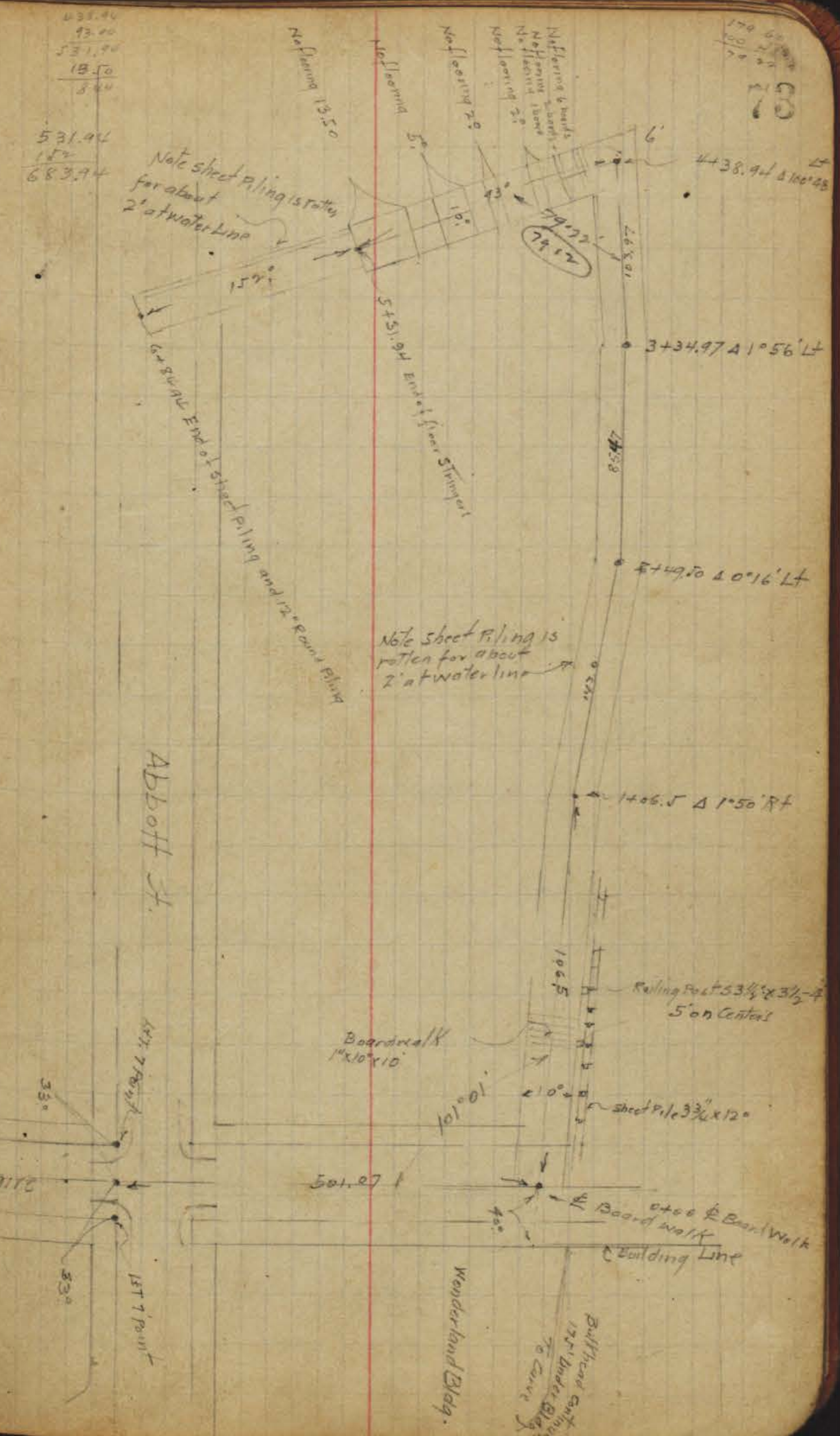
Williams  
Dunkle Nov. 1, 1919  
C. Moore  
B. Moore



Tested to 10.5 still found sheet piling

Sta	8.5	6.47	E.S.	Elev.	B.M. 2.47	Brass Plug in Cap S.W. Corner of Abbott's 1st
On Top Sheet Piling	4.0			4.71		
at Sta 0+00			1.76			

73

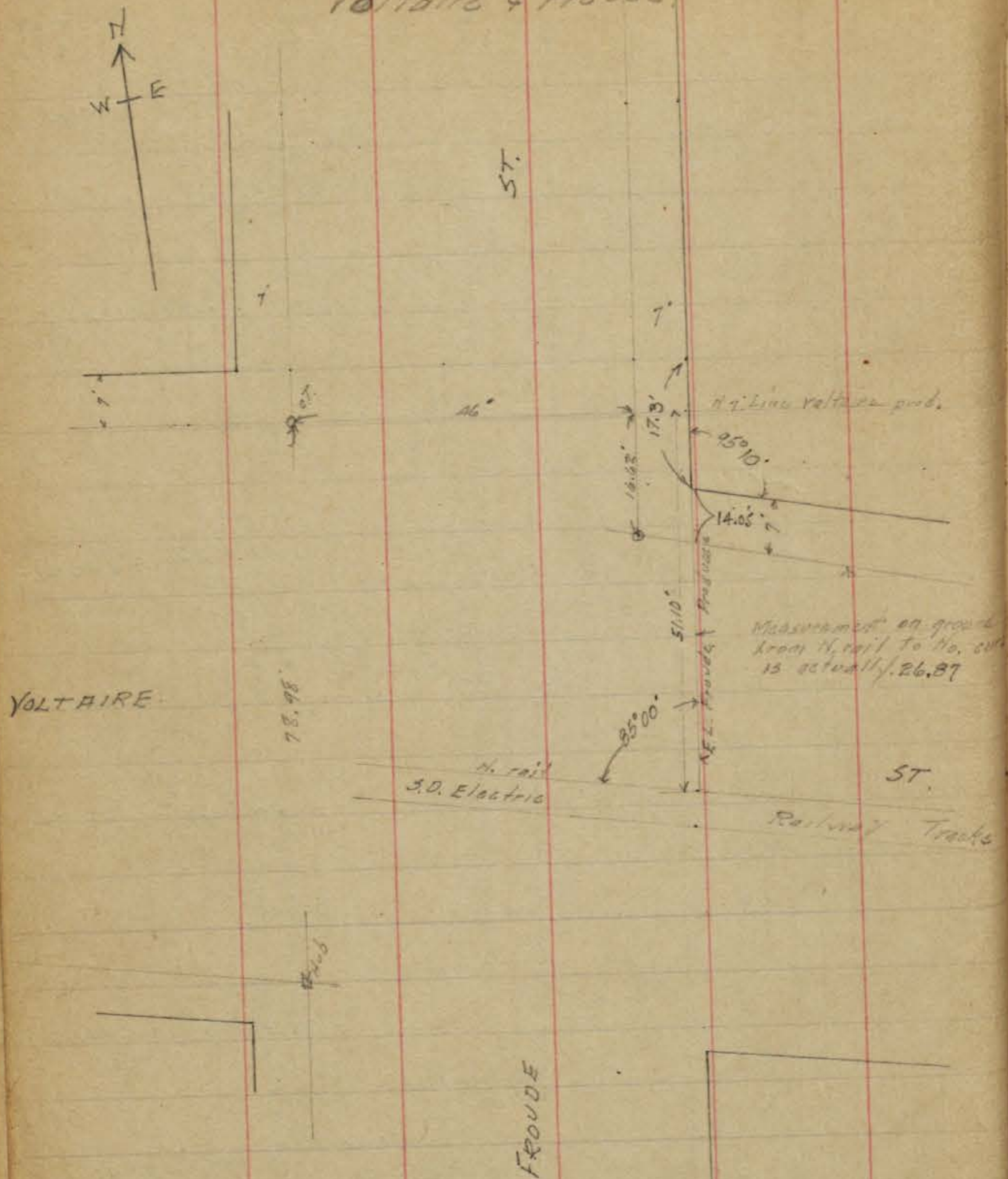


Voltaire

Wonderland Bldg.

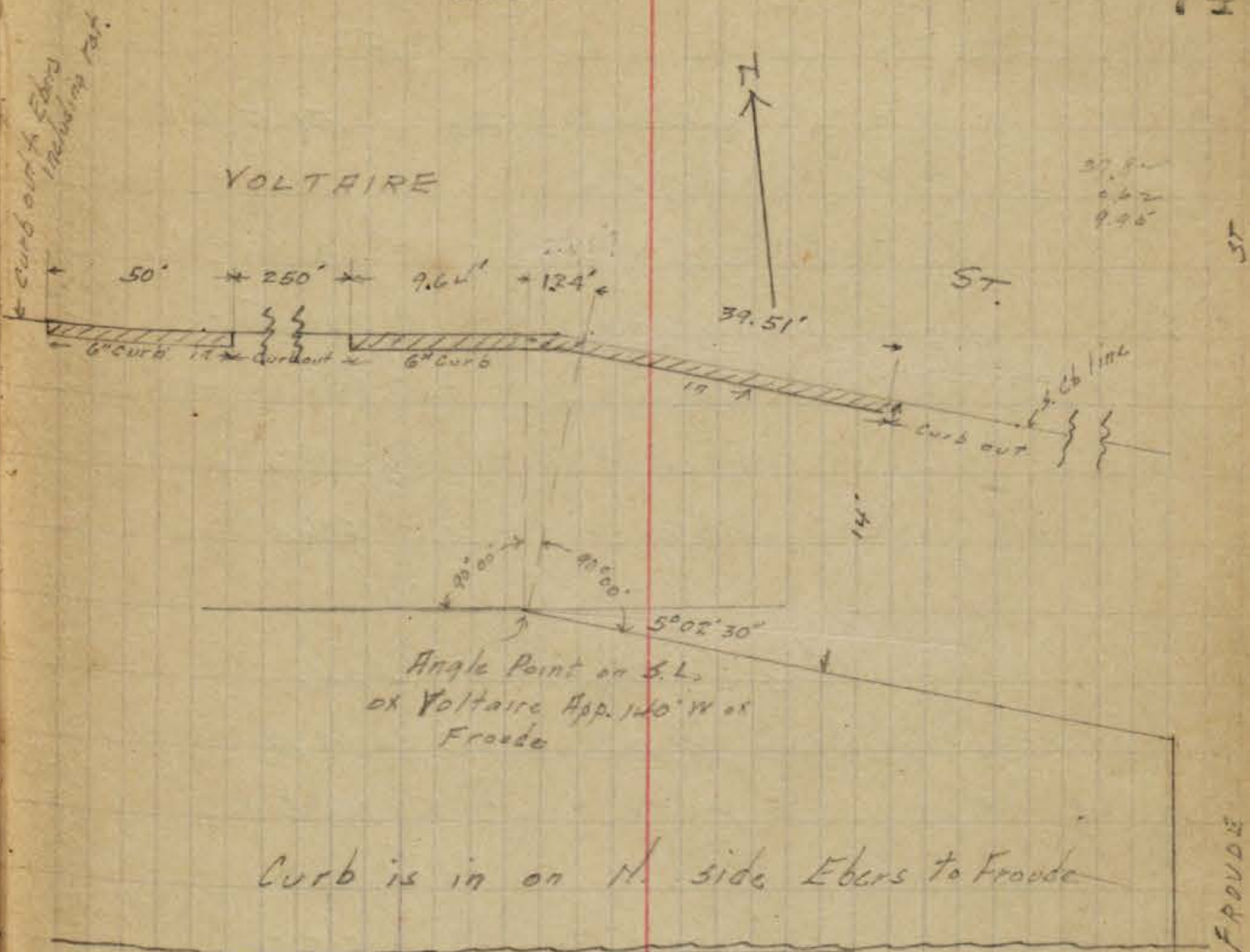
Building continues 175' under Bldg. to Curve

Location of Car Tracks  
Voltaire + Froude



Location of Pieces of Curb on  
S. Side of Voltaire between  
Ebers + Froude.

1904  
2009  
74



DE FOE  
AND ALL THE  
REST OF THIS  
SIX IS GOING TO  
FALL OVER.

6" Curb is out on S side Voltaire from 125.2 West  
of Ebers to 223.7 West of Ebers  
(Curb is N.G. on N side W.L Ebers to 3' E.

80.9' W. of Ebers to 86.8' W.	
96.2	111.4
124	133.3
139.1	151.3
154.7	168.3
171.5	206.8
259.2	264.0
270.2	282.3
358.5	364.1
381.3	410.1
430.5	436.7
446.7	450.3

continued next page

VOLTAIRE ST CURBS

N side Cable to DeFoe

AND ALL THE PART OF CURBS ON N side is going to fall over

curb is NG from 146 DeFoe to 4' E.

✓	✓	✓	✓	45.14	of DeFoe to	51.5	N		
✓	✓	✓	✓	137.3	✓	✓	✓	144.6	✓
✓	✓	✓	✓	205	✓	✓	✓	230.8	✓
✓	✓	✓	✓	262.9	✓	✓	✓	296.5	✓
✓	✓	✓	✓	349.1	✓	✓	✓	432.6	✓
✓	✓	✓	✓	491.4	✓	✓	✓	498.3	✓
✓	✓	✓	✓	522.1	✓	✓	✓	536.9	✓

N side Bacon to Cable

DITTO IN THIS BLOCK

curb is NG from 75 W. of Cable to 79 W

✓	✓	✓	✓	137.7	✓	✓	✓	144.5	✓
✓	✓	✓	✓	163	✓	✓	✓	171	✓
✓	✓	✓	✓	197.5	✓	✓	✓	216.2	✓
✓	✓	✓	✓	271.8	✓	✓	✓	274.8	✓
✓	✓	✓	✓	282	✓	✓	✓	285.8	✓
✓	✓	✓	✓	361.7	✓	✓	✓	365.0	✓
✓	✓	✓	✓	447	✓	✓	✓	451.0	✓

Photo says not to replace had curb.

Grades for finished bottom of bathing Plunge

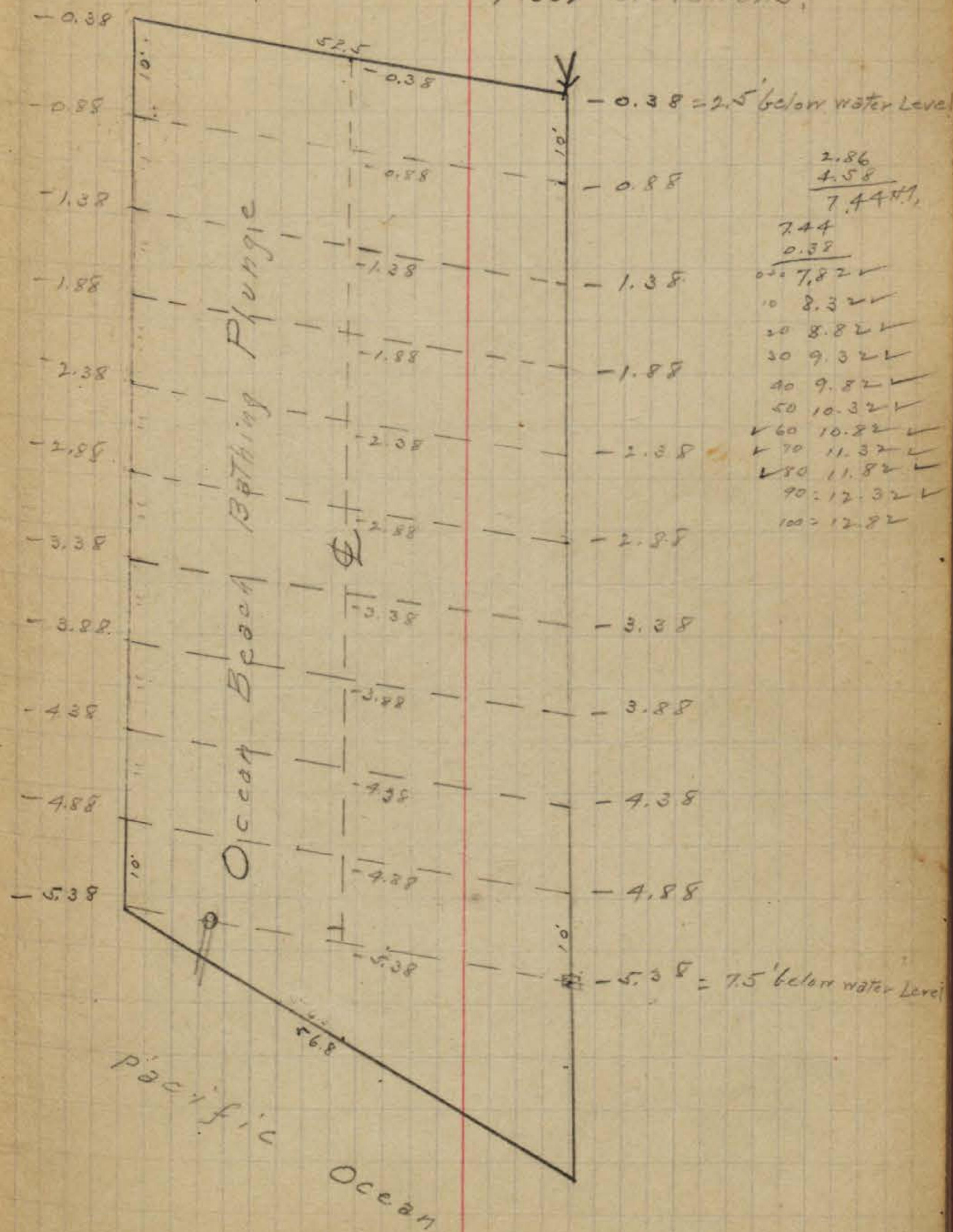
	H.I.			
B.M. N.E. Grass pty Abbott's New part				6.50
	4.91	11.41		
T.P.	6.83	8.31	9.93	1.48

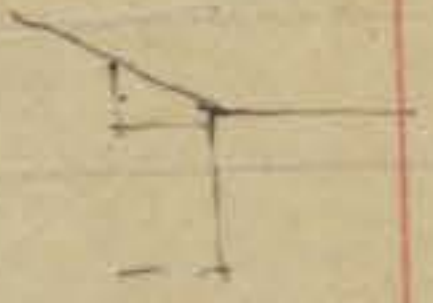
cap. Th. in Lead north cor of old wall 5.45 2.86

B.M.	4.45	7.31	2.86
------	------	------	------

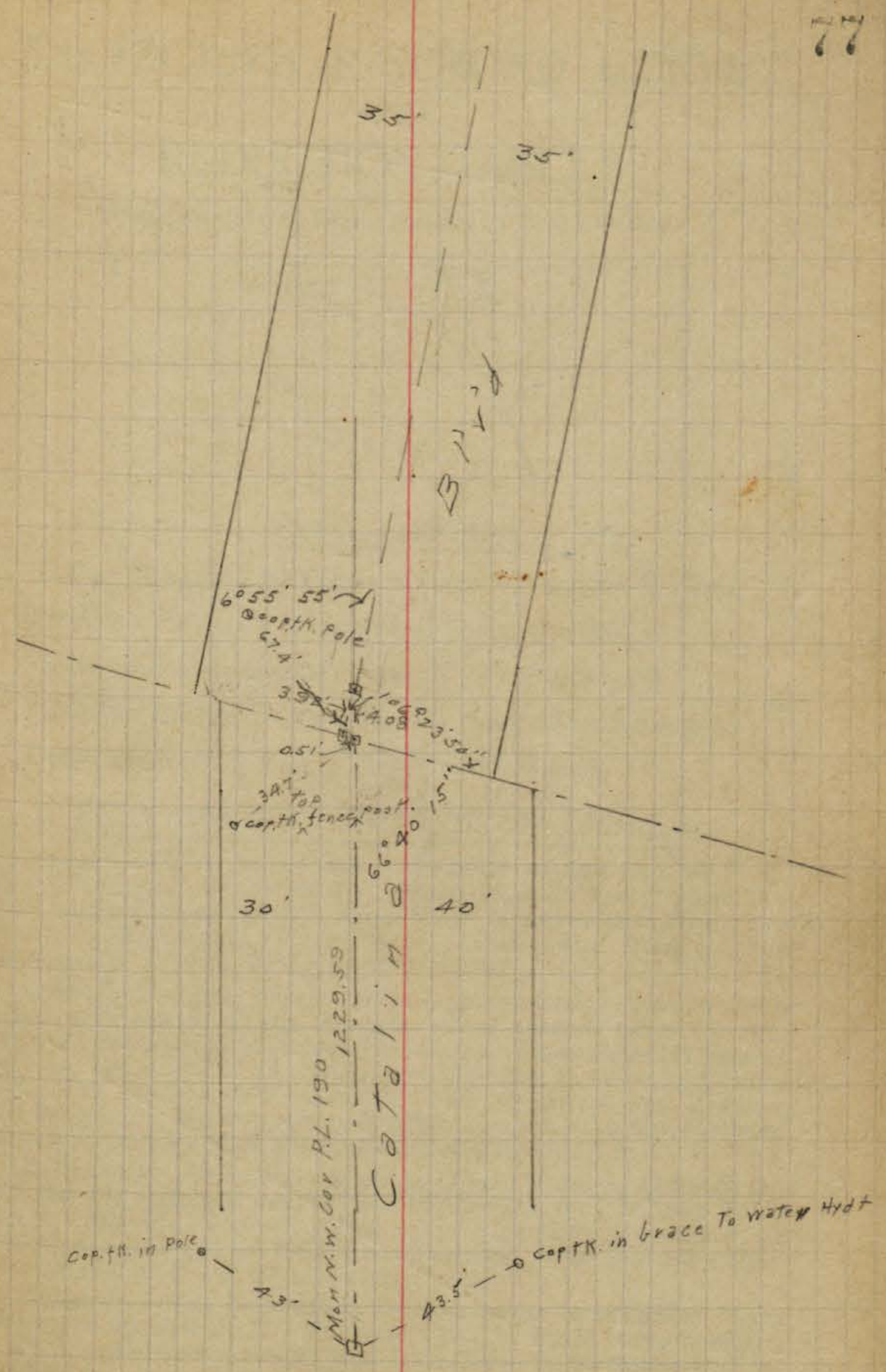
7/21/19  
DUBOIS  
SHAW  
EVANS

Floor elevations





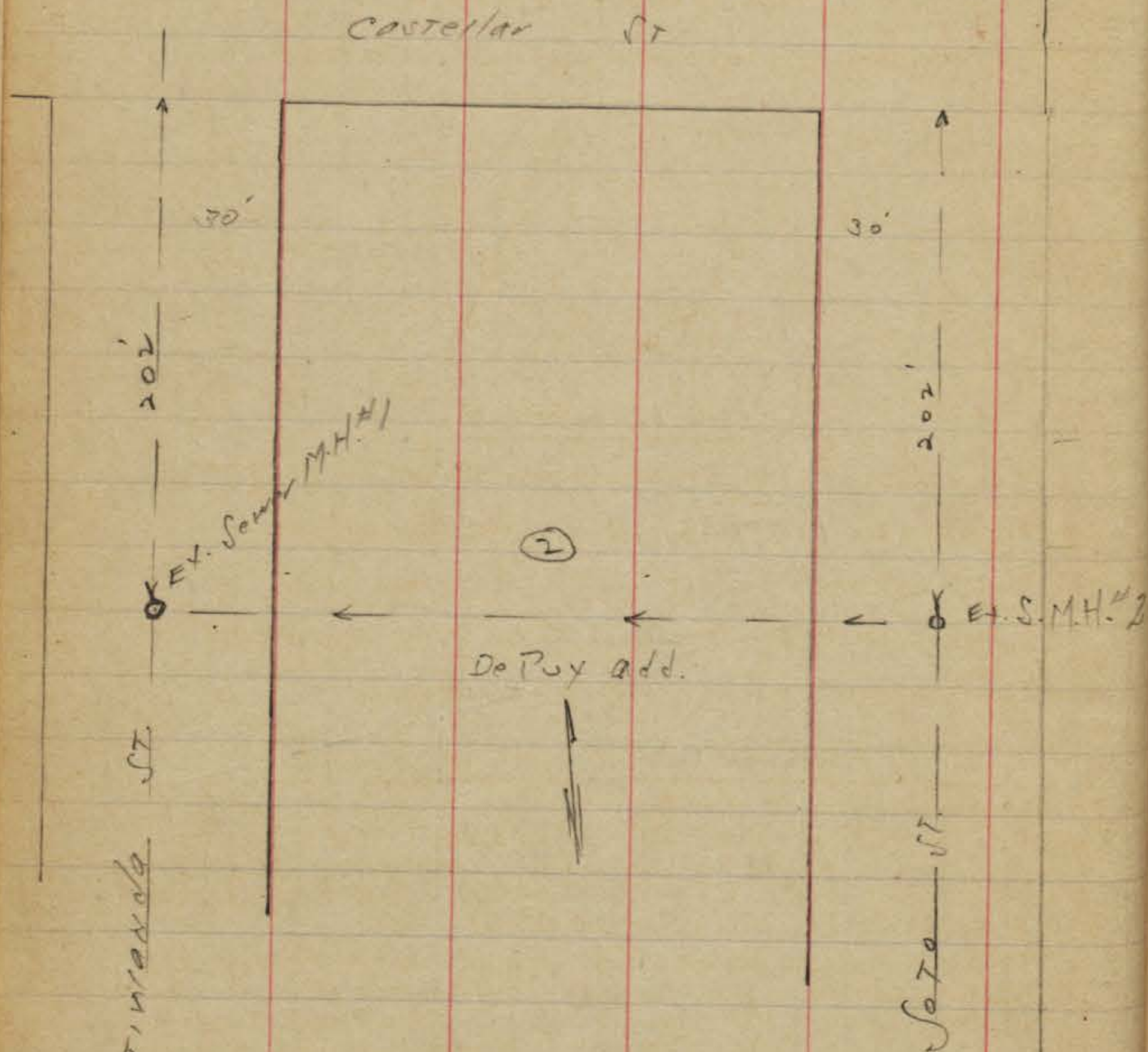
11.45  
11.45



Sewer Man Hole  
 Etihad and Sofast. Between  
 Greene and Costalar St.

Indexed  
 c.s.T.V.

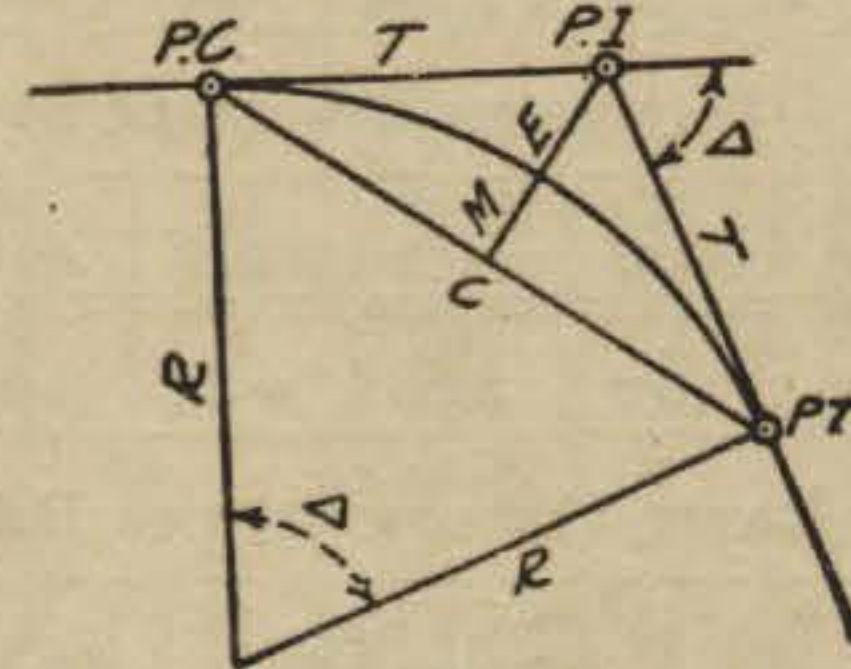
6-12-33 78  
 Moort



BM	6.15	50.74		44.59	N.W. BP
TP	3.11	44.46	9.45	41.29	Voltaire
TP	5.47	43.64	6.23	38.17	Froude
M.H. #1 on R/W			6.76		
" " Flood Line			13.16		
TP	2.61	44.09	2.16	41.48	
M.H. #2 Flood Line			11.67		

# DIETZGEN'S RAILROAD CURVE AND REDUCTION TABLES

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## CURVE FORMULAS

- Radius =  $R = \frac{50}{\sin. D/2}$  (1) Degree of Curve = D and  $\sin. \frac{D}{2} = \frac{50}{R}$  (2)
- Tangent =  $T = R \tan \frac{\Delta}{2}$  (3) Length of Curve =  $L = 100 \frac{\Delta}{D}$  (4)
- Middle ordinate =  $M = R(1 - \cos. \frac{\Delta}{2})$  (5) =  $R \text{vers} \frac{\Delta}{2}$  (6)
- External =  $E = T \tan \frac{\Delta}{4}$  (7) =  $R \cos \frac{\Delta}{2} (1 - \cos. \frac{\Delta}{2})$  (8) =  $R \text{exsec} \frac{\Delta}{2}$  (9)
- Long Chord =  $C = 2 R \sin. \frac{\Delta}{2}$  (10)  $\Delta$  = Central Angle

## EXPLANATION AND USE OF TABLES

**Stations.**—Given P. I. = Sta. 161 + 60.35 to find Sta. of P. C. and P. T.  $\Delta = 62^\circ 10'$   $D = 8^\circ 20'$ . From Table IV for  $1^\circ$  curve  $T = 3454.1$  and  $\div 8\frac{1}{3} = 414.49$  ft. From Table V correction = .36 or  $T = 414.85$  ft. P. C. = Sta. P. I. -  $T = 157 + 45.50$ . Also from (4)  $L = 746.00$  and P. T. = Sta. P. C. +  $L = 164 + 91.50$ .

**Offsets.**—Tangent offsets vary (approximately) directly with D and with square of the distance. Thus tangent offset for Sta. 158 on above curve is 2.16 ft. found as follows. From Table III tangent offset for 100 ft. = 7.27 ft. Distance =  $158 - \text{Sta. P. C.} = 54.50$ , hence offset =  $7.27 (54.50 \div 100)^2 = 2.16$  ft. Also square of any distance divided by twice the radius equals (approximately) the distance from tangent to curve. Thus  $(54.50)^2 \div (2 \times 688.26) = 2.16$  ft.

**Deflections.**—Deflection angle =  $\frac{1}{2} D$  for 100 ft.,  $\frac{1}{4} D$  for 50 ft., etc. For c ft. = (in minutes)  $.3 \times C \times D^\circ$  or = defl. for 1 ft. from Table III  $\times C$ . For Sta. 158 of above curve =  $.3 \times 54.5 \times 8\frac{1}{3} = 136.2'$  or  $2^\circ 16.2'$ , or  $= 2.50 \times 54.5 = 136.2'$  from Table III. For Sta. 159 deflection angle =  $2^\circ 16.2' + 8^\circ 20' \div 2 = 6^\circ 26.2'$ , etc.

**Externals.**—May be found in similar manner to tangents. Thus E for curve above is 91.37. For from Table IV for  $1^\circ$  curve  $E = 960.6$  for  $8^\circ 20' = 960.6 \div 8\frac{1}{3} = 91.27$  and from Table V correction = .10 or  $E = 91.37$  ft. Or suppose  $\Delta = 32^\circ$  and E is measured and found to be 42 ft. What is D? From Table IV  $E = 230.9$  and  $\div 42 = 5.5$  or  $D = 5^\circ 30'$ .