

-23-

CITY-HEIGHTS - & E

South of El Cajon to Univ.

POSTS

LEVEL BOOK

No. 380

TIE POINT

BOOK

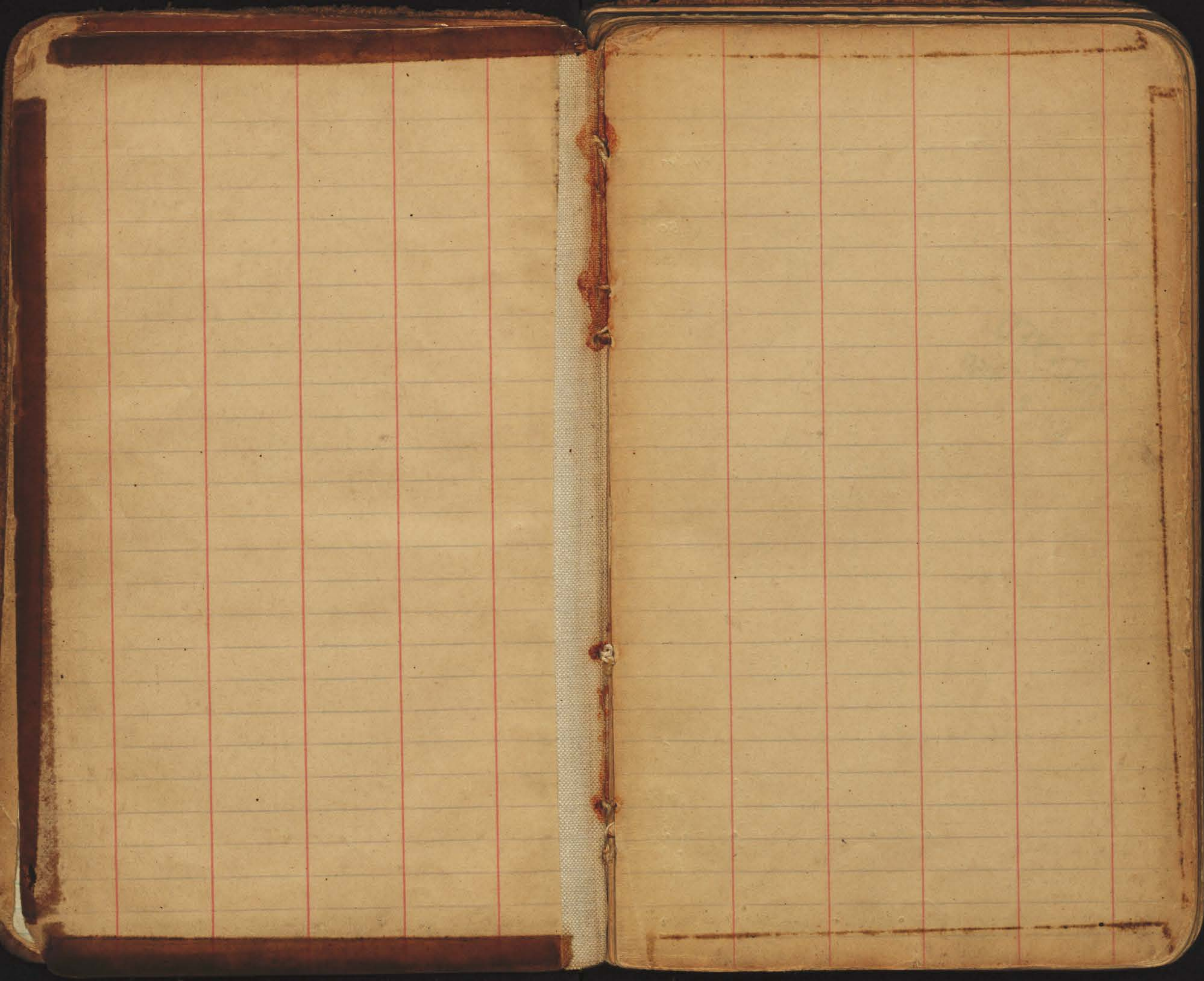
T. P. 23

El Cajon to University

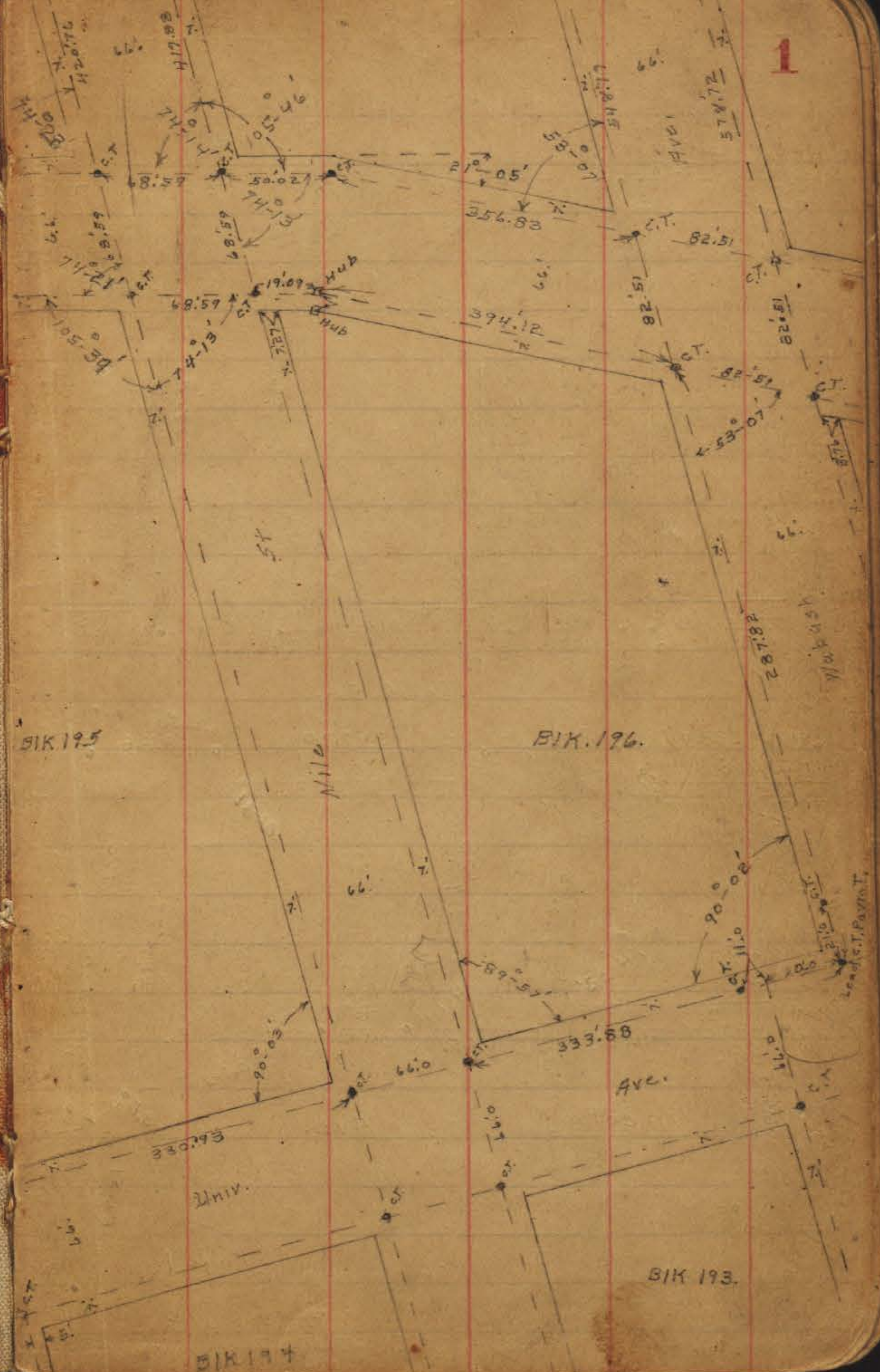
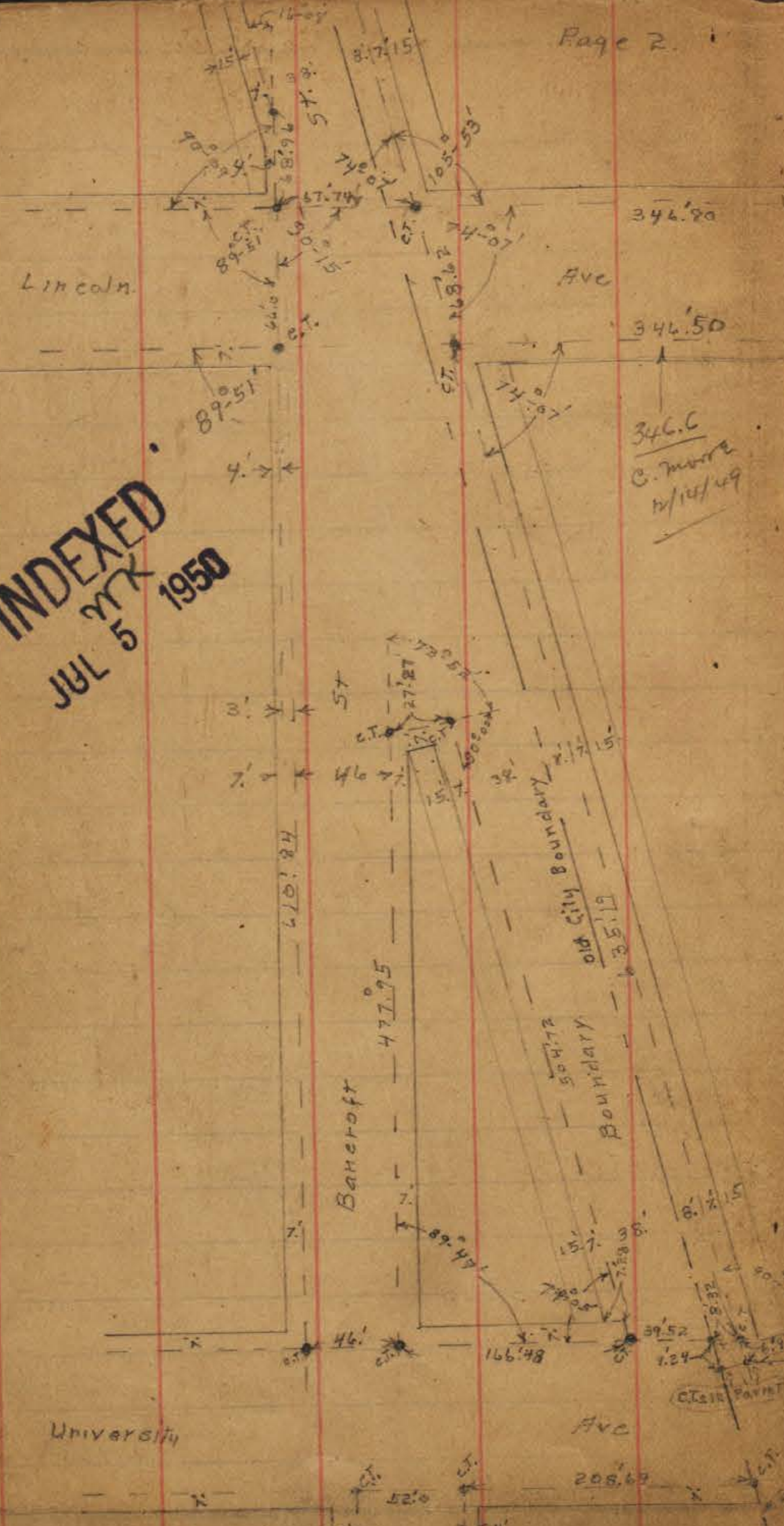
1 - INDEX - T. P. 23

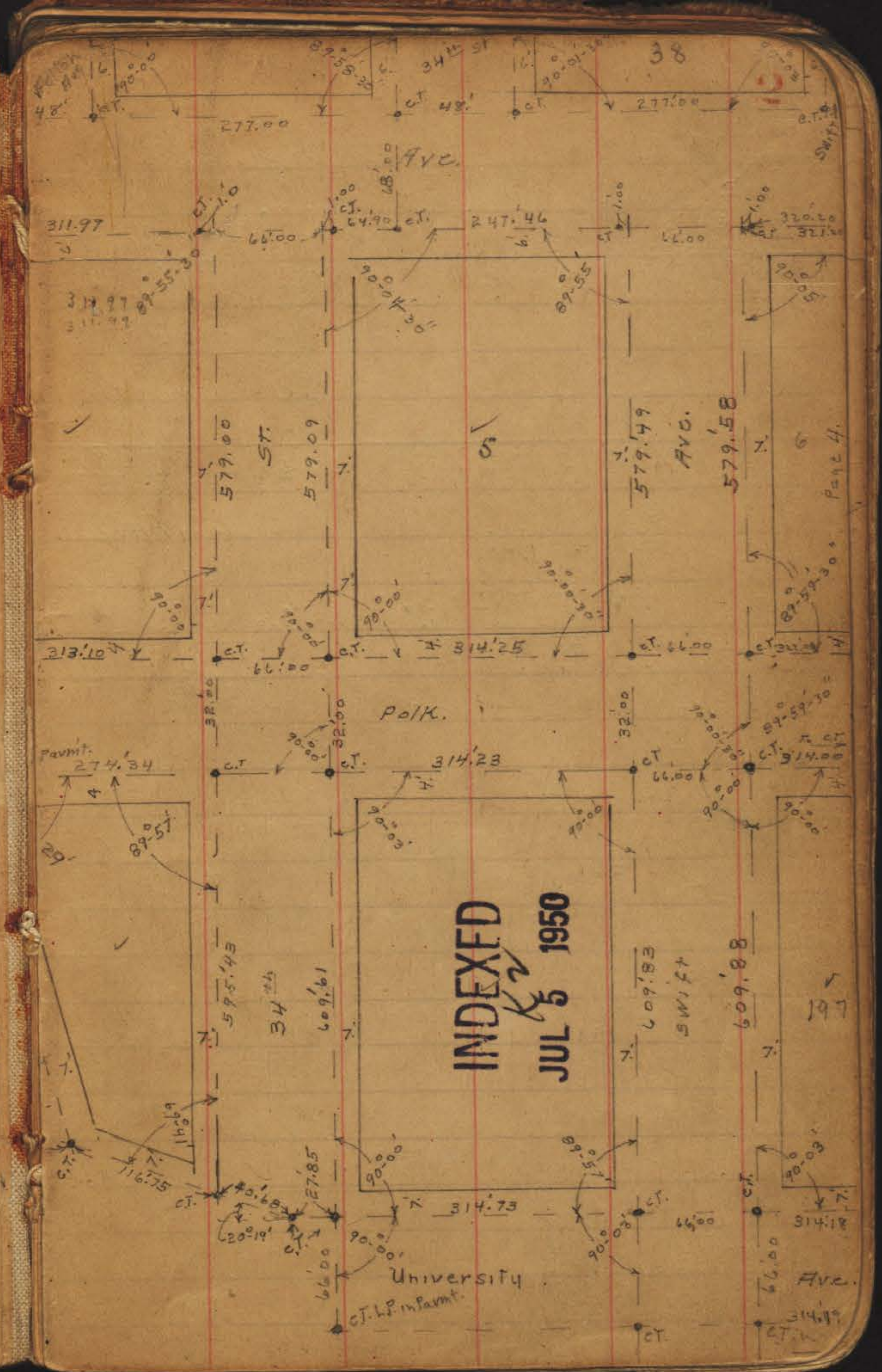
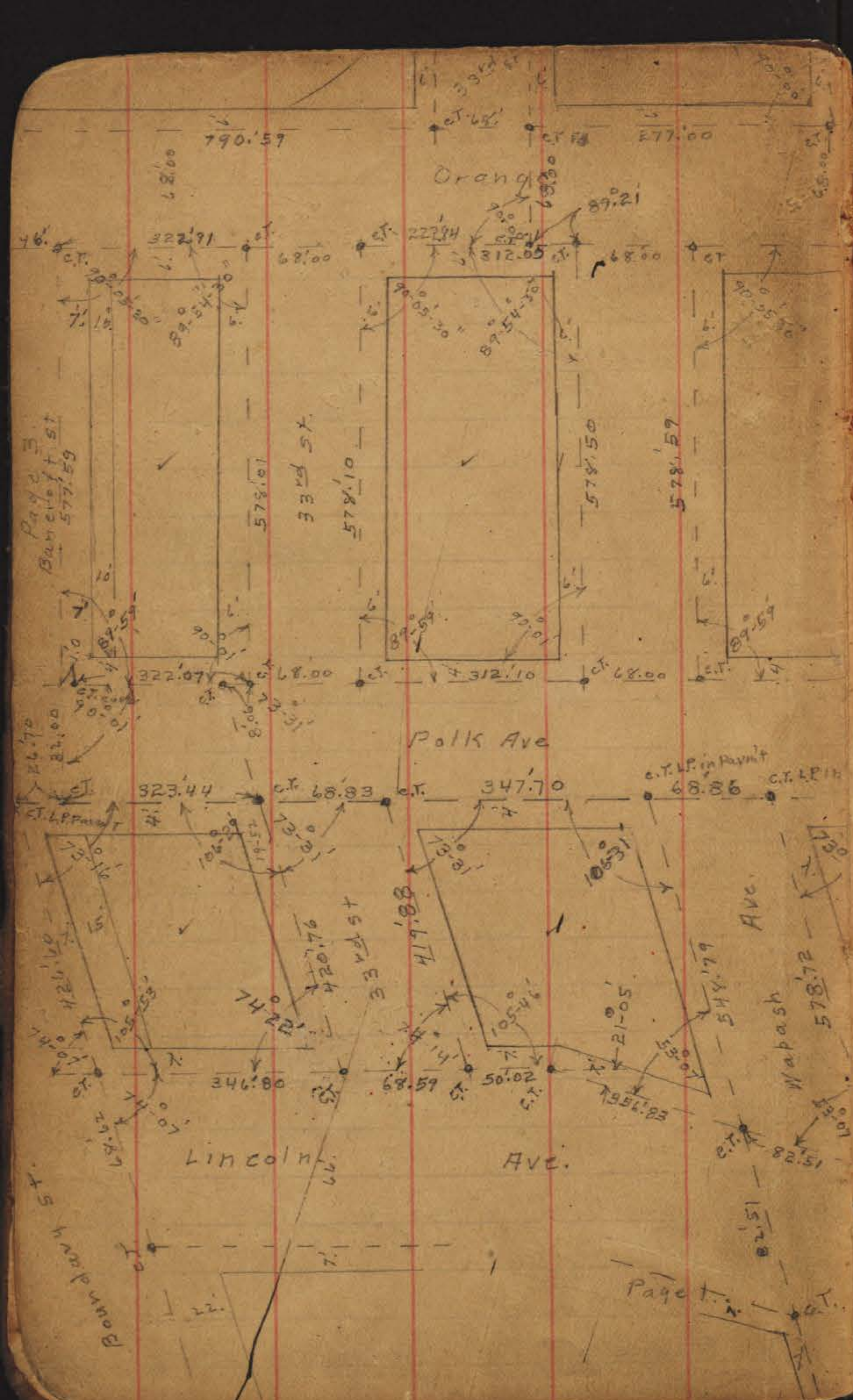
LINCOLN AVE.	1-2
UNIVERSITY AVE.	1-2, 4-9
BANCROFT ST.	1-3, 11
BOUNDARY ST.	1-3, 11
NILE ST.	1
WABASH AVE.	1-2
ORANGE AVE.	2-18
POLK AVE.	2, 4-9
33 ST.	2-3, 12
34 ST.	2, 13
SWIFT AVE.	2, 13
BRAMSON PL.	3, 11-12
35 ST.	4, 13
WILSON AVE.	4, 13
36 ST.	4, 13
CHEROKEE AVE.	4, 13
37 ST.	5, 13
38 ST.	5,
39 ST.	5, 14
40 ST.	5, 14
CENTRAL AVE.	6, 14
41 ST.	6, 14
MARLBOROUGH	6, 14
42 ST.	6, 14
VAN DYKE AVE.	7, 15
43 ST.	7, 15
FAIRMONT AVE.	7, 15
44 ST.	7, 15
HIGHLAND AVE.	8, 15
45 ST.	8, 15
CHAMOUNE AVE.	8, 15-16

Description	Pages
600	23
College Way	24, 29, 30, 31
Meade Ave	25
53 rd	25
Orange Ave.	26, 27
52 nd	26, 32
Trojan	26, 27, 32
54 th	26
55 th	27
56 th	27
Hardy Ave	29
Montezuma Rd	29, 30
Campanile Dr	29
Linda Pisco	29
College Pl.	30
Cresita Dr.	31
Cocos Lane	31
Dawson St.	32

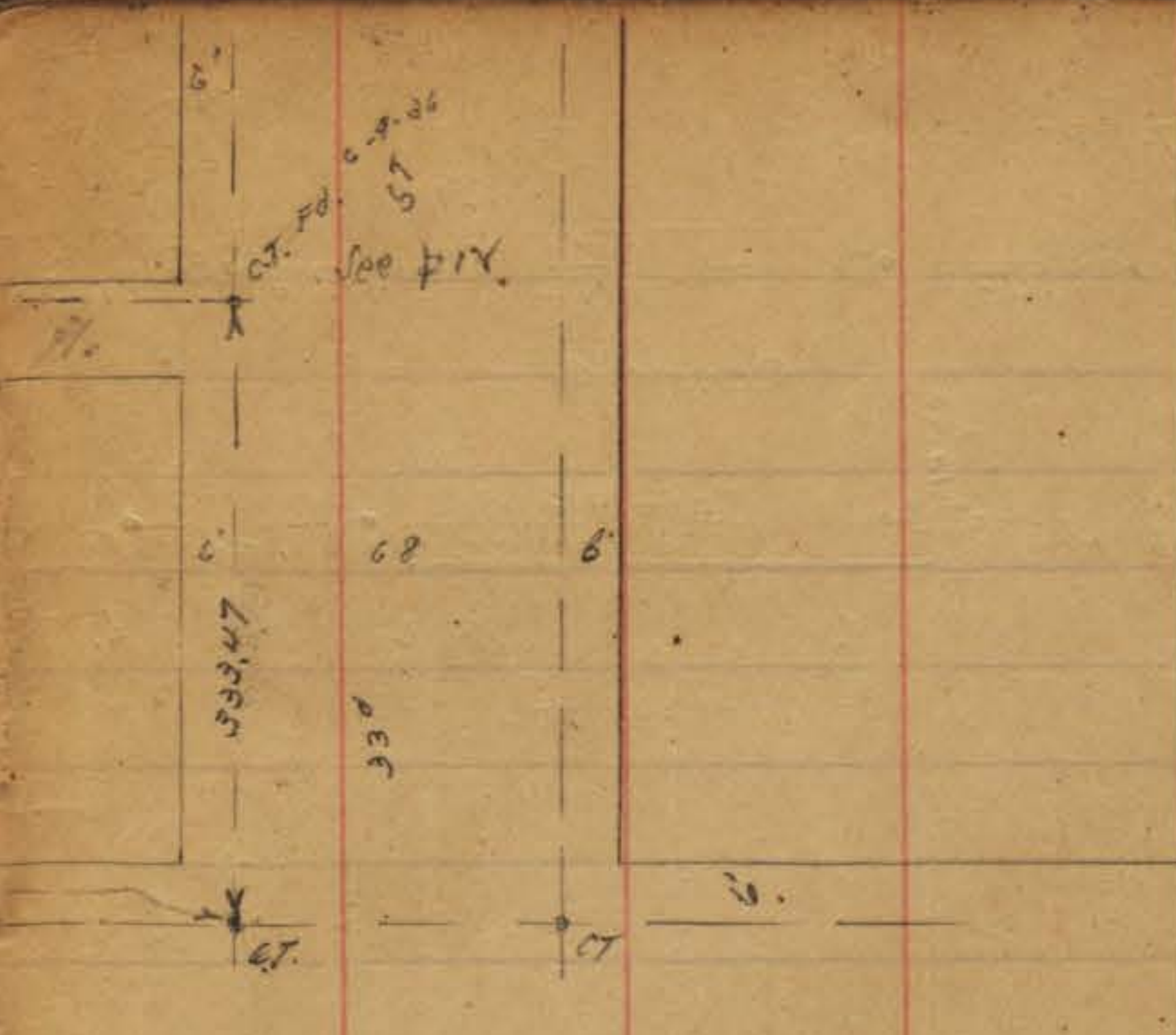
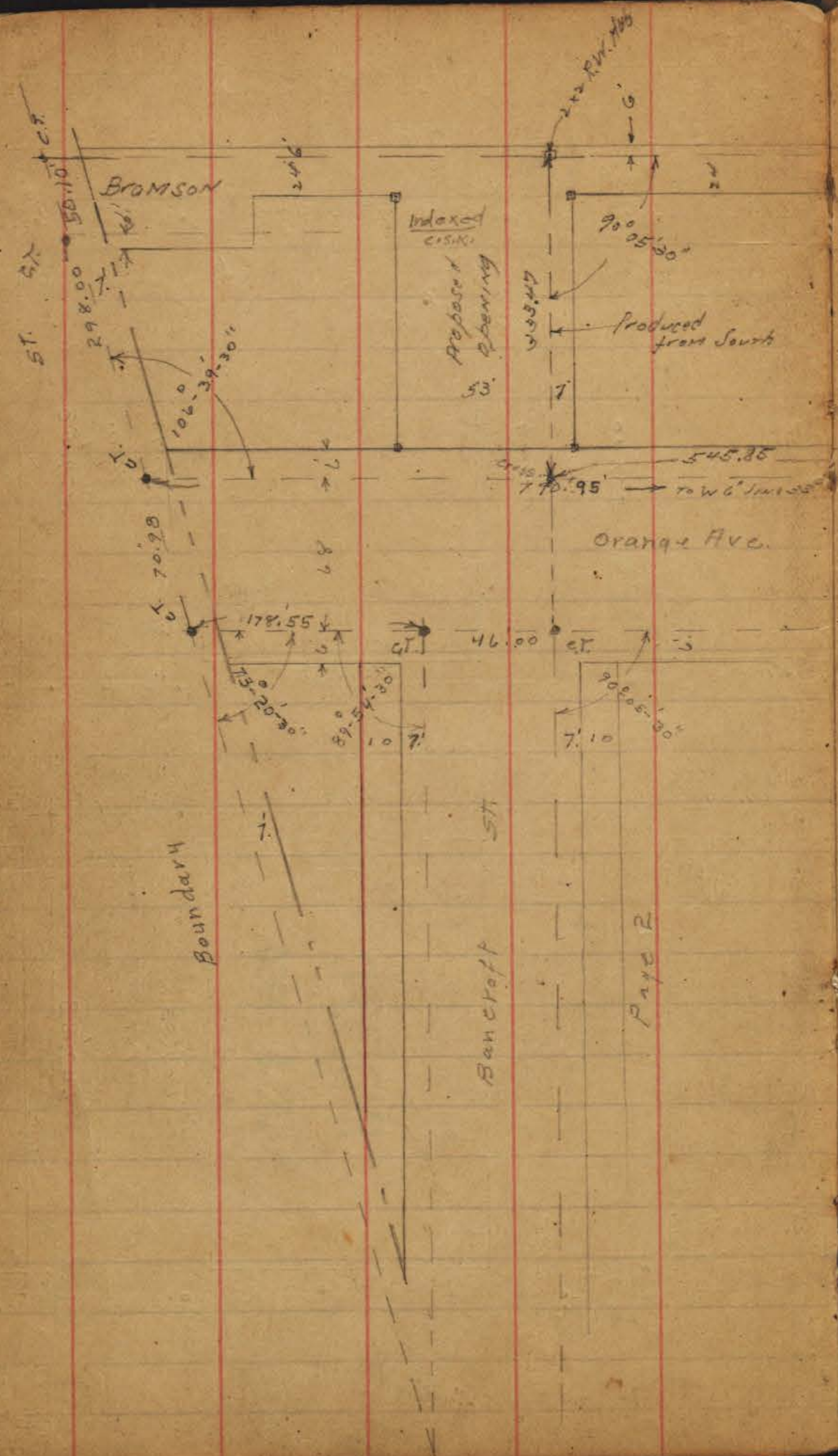


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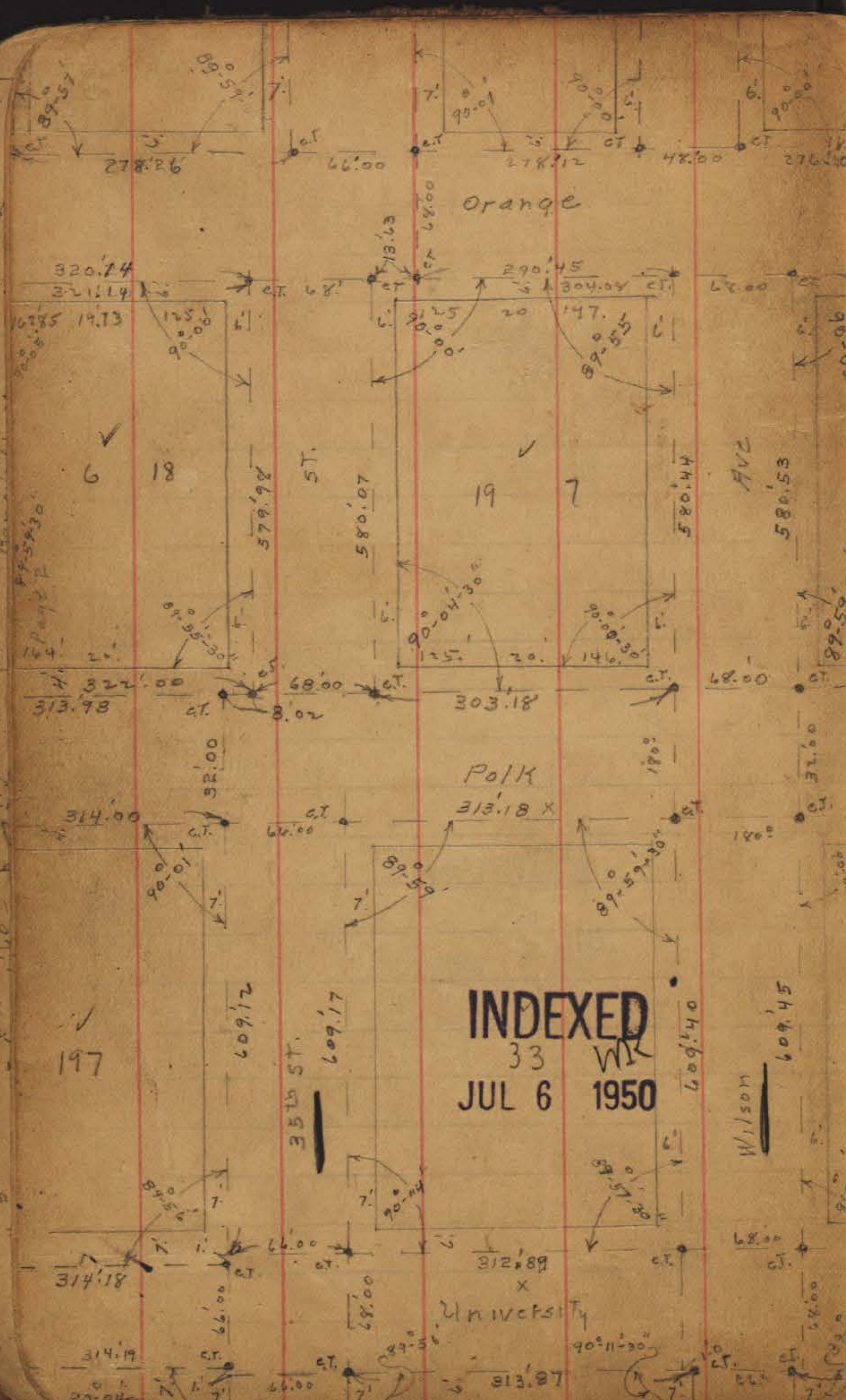
2670

110

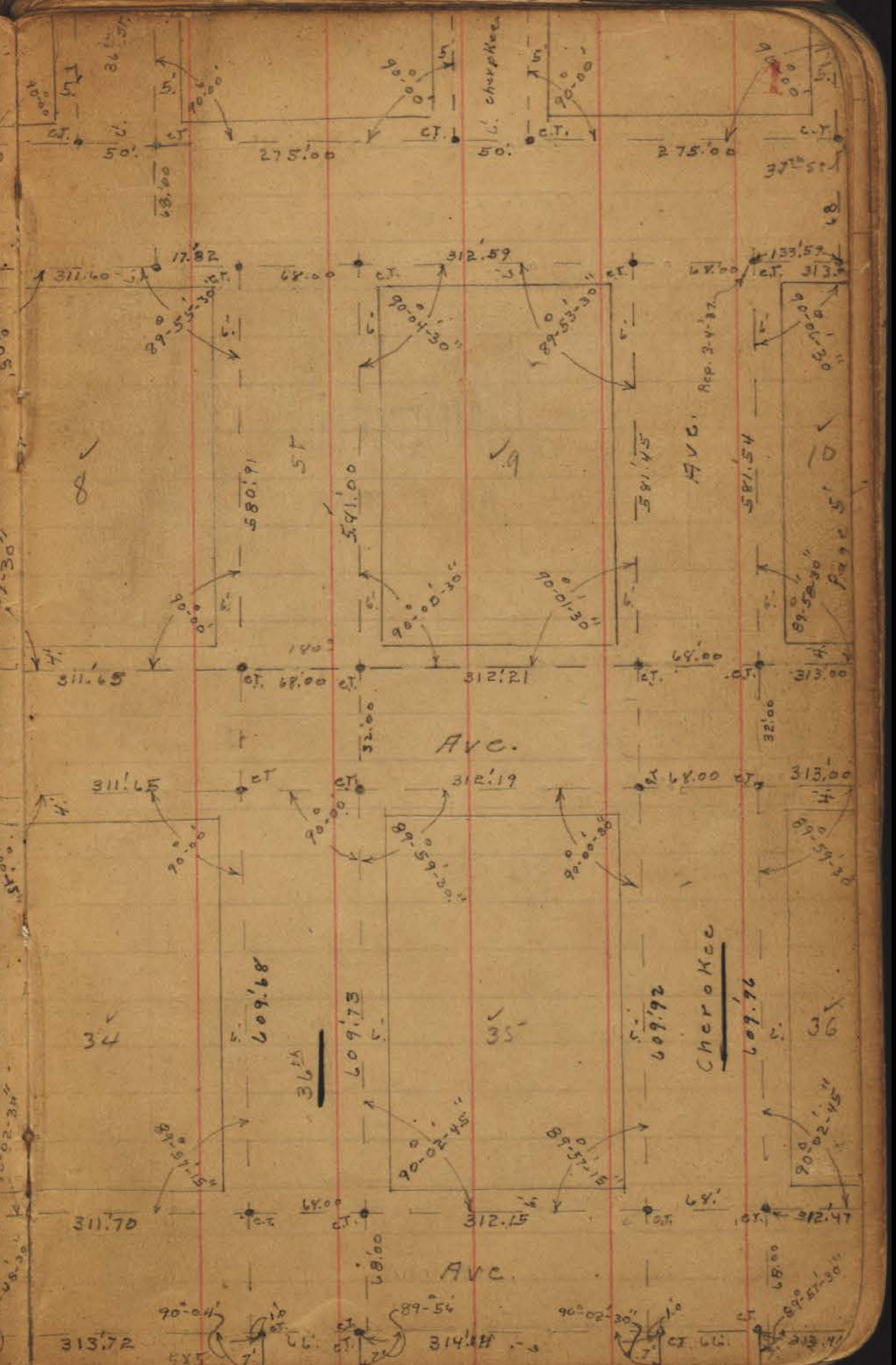
74

5

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74

5

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Orange

Ave.

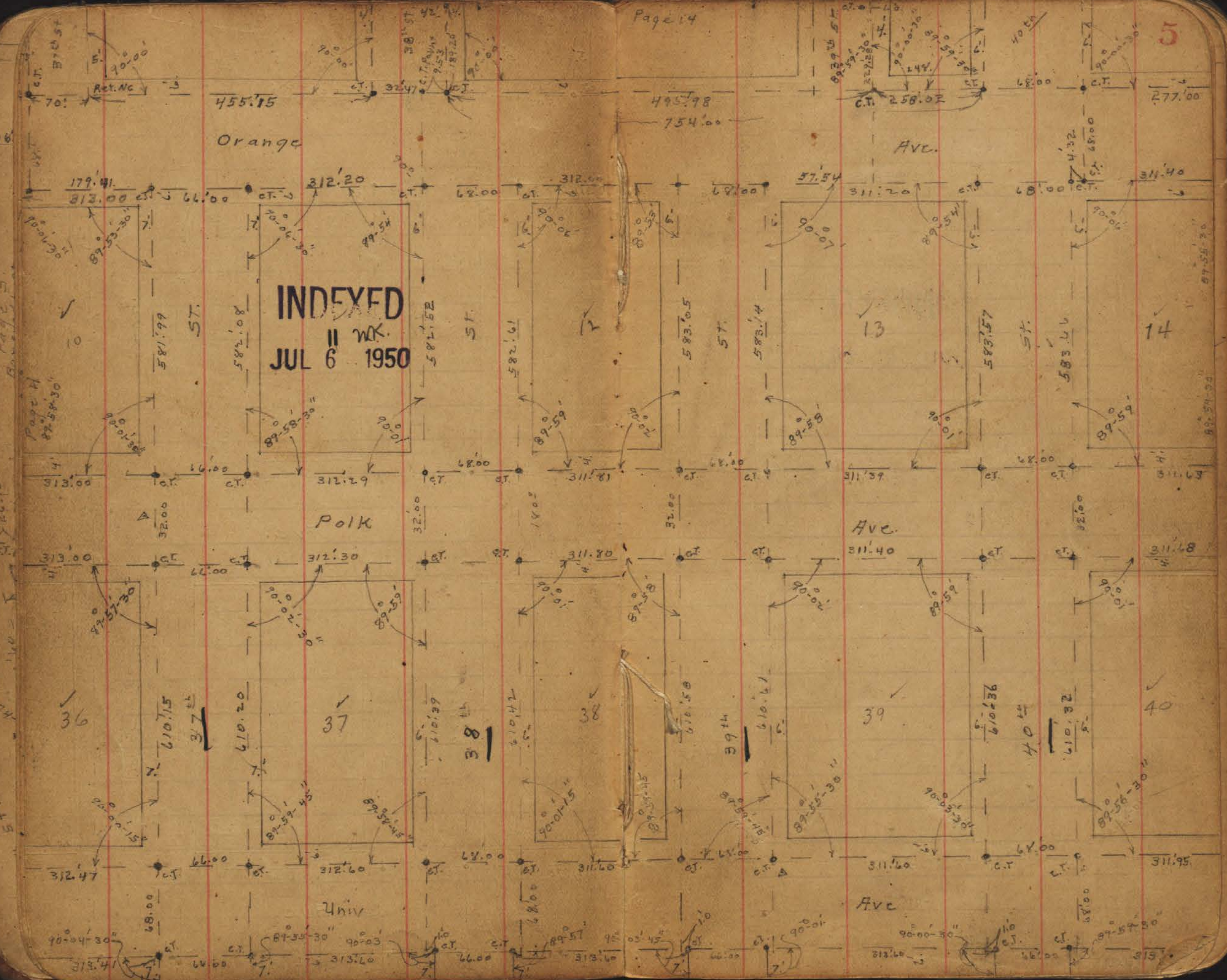
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Polk

Ave.

Univ

Ave



Page 11
82-58-30

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82-57-30

Page 13
82-56-30

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82-55-30

Ret. No
70
38 1/2 ST

455.75

179.41
313.00

89-53-30

581.99

582.08

312.20

66.00

313.00

32.00

313.00

89-57-30

610.15

312.47

68.00

312.47

89-59-30

66.00

312.60

66.00

312.60

89-59-30

66.00

495.98

754.00

312.00

68.00

312.00

68.00

311.81

32.00

311.81

32.00

311.80

32.00

311.80

32.00

311.80

32.00

311.80

32.00

311.80

32.00

311.80

32.00

311.80

258.02

311.20

57.54

89-54-30

311.20

68.00

311.20

68.00

311.20

68.00

311.20

68.00

311.20

68.00

311.20

68.00

311.20

68.00

311.20

68.00

311.20

68.00

311.20

68.00

277.00

68.00

311.40

68.00

311.40

68.00

311.40

68.00

311.40

68.00

311.40

68.00

311.40

68.00

311.40

68.00

311.40

68.00

311.40

68.00

311.40

68.00

277.00

311.40

68.00

311.40

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311.40

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311.40

68.00

311.40

68.00

311.40

68.00

311.40

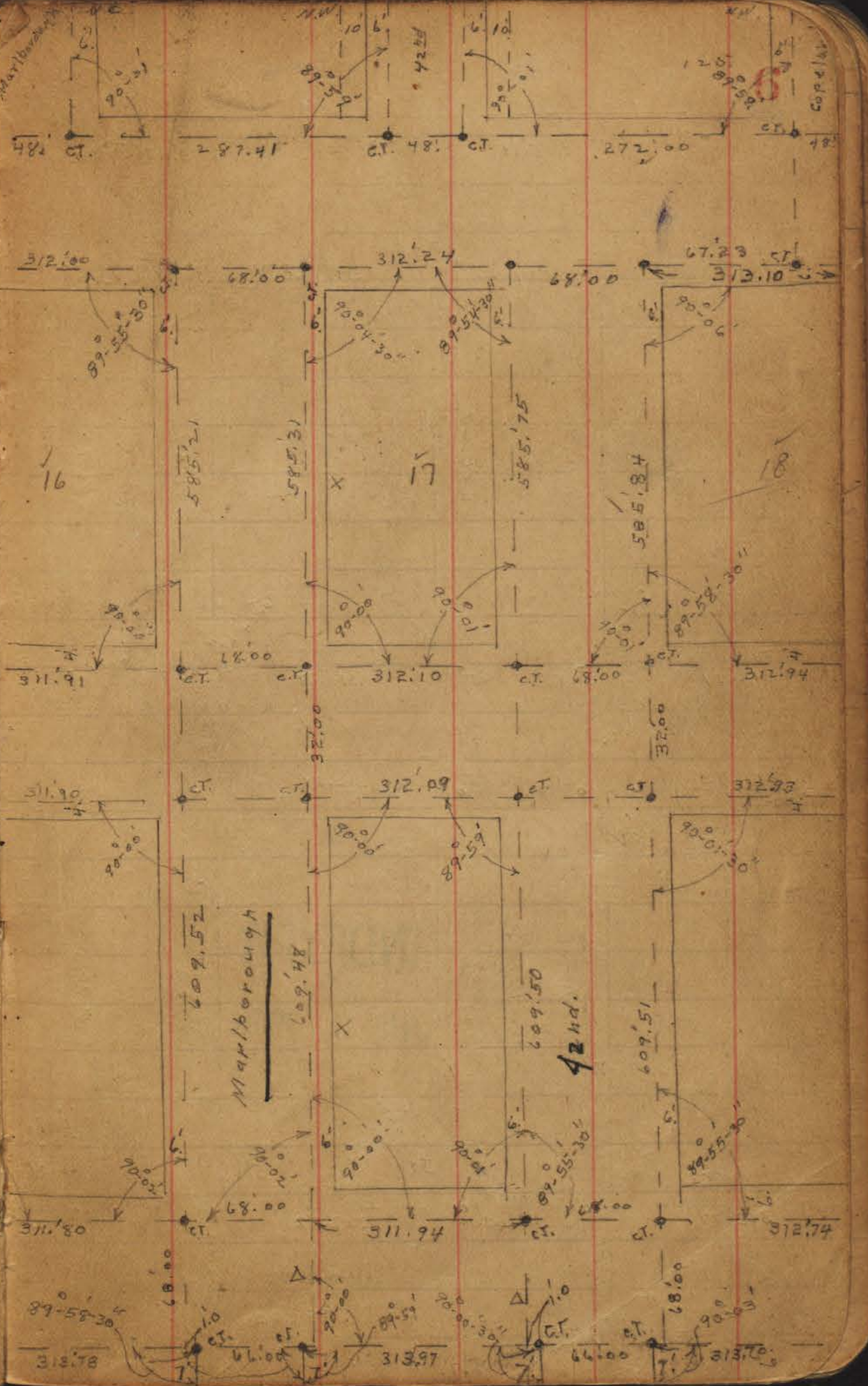
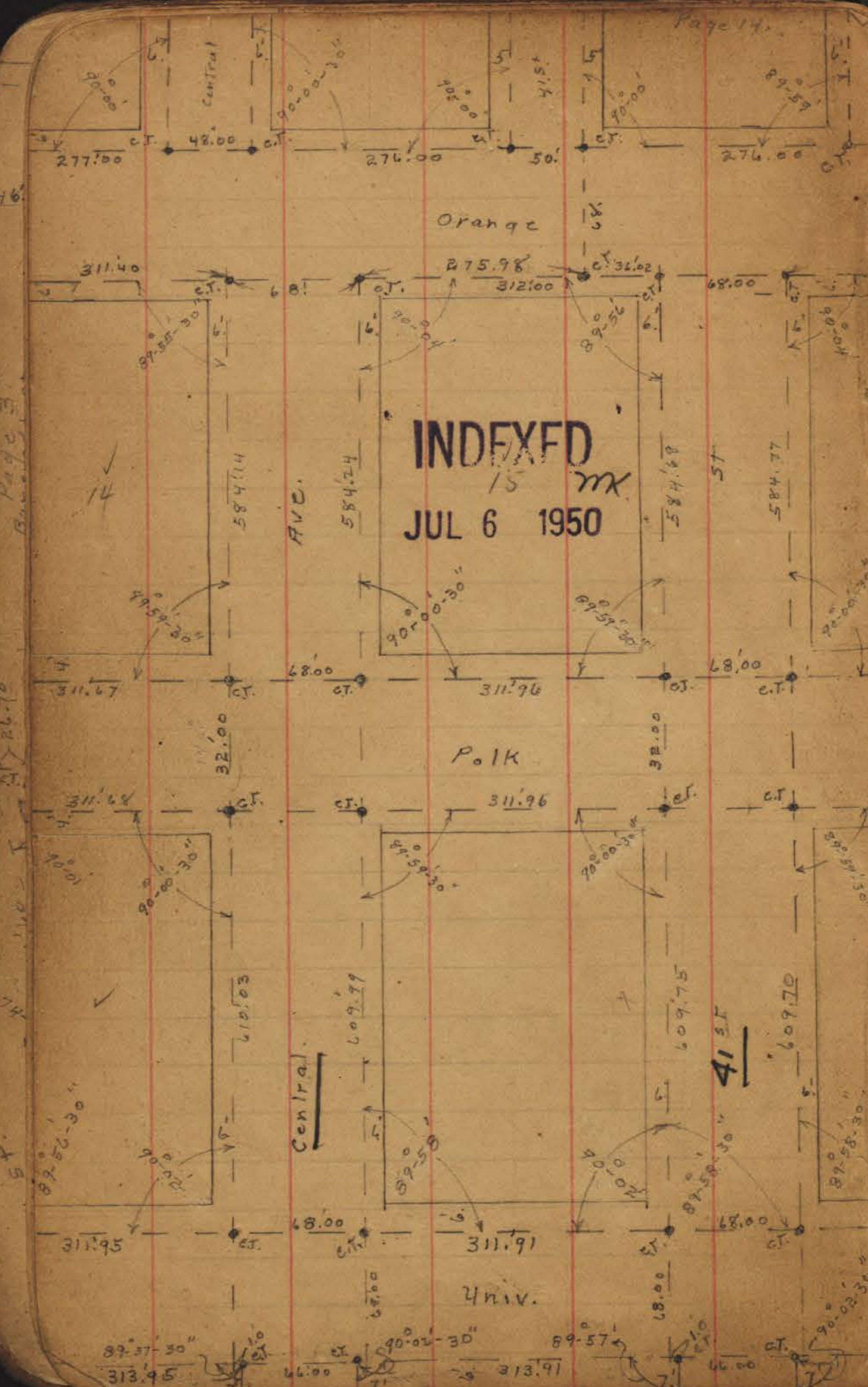
68.00

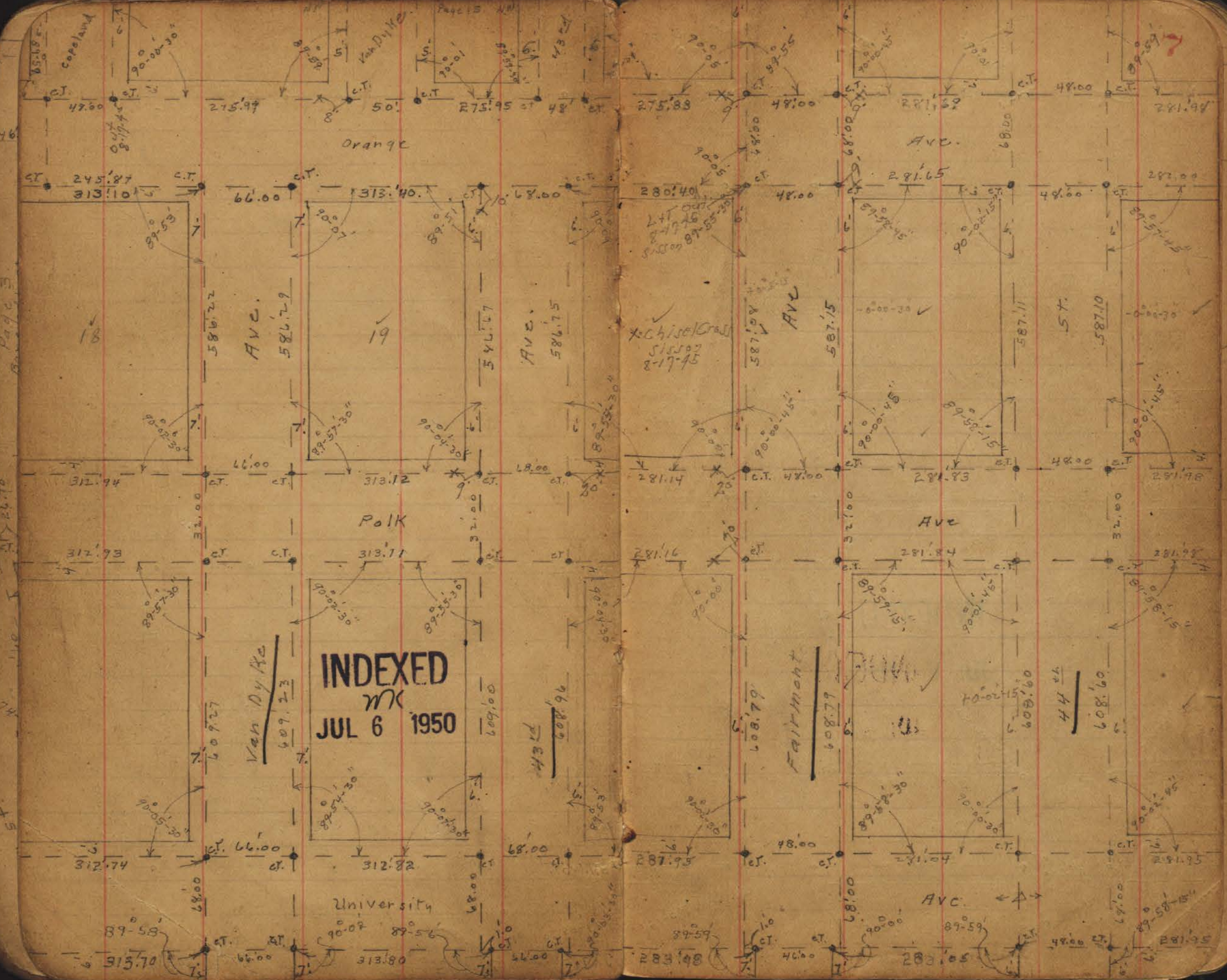
311.40

68.00

311.40

68.00





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Page 3

2670

74

5

18

19

7

Van Dyke
 609.23

431
 608.96

Fairmont
 608.79

608.60
 608.60

University

Ave.

Chise/Cross
 515.02
 8-17-45

L.H.
 2-17-45

46

Page 3

2670

74

5

18

19

7

Van Dyke
 609.23

431
 608.96

Fairmont
 608.79

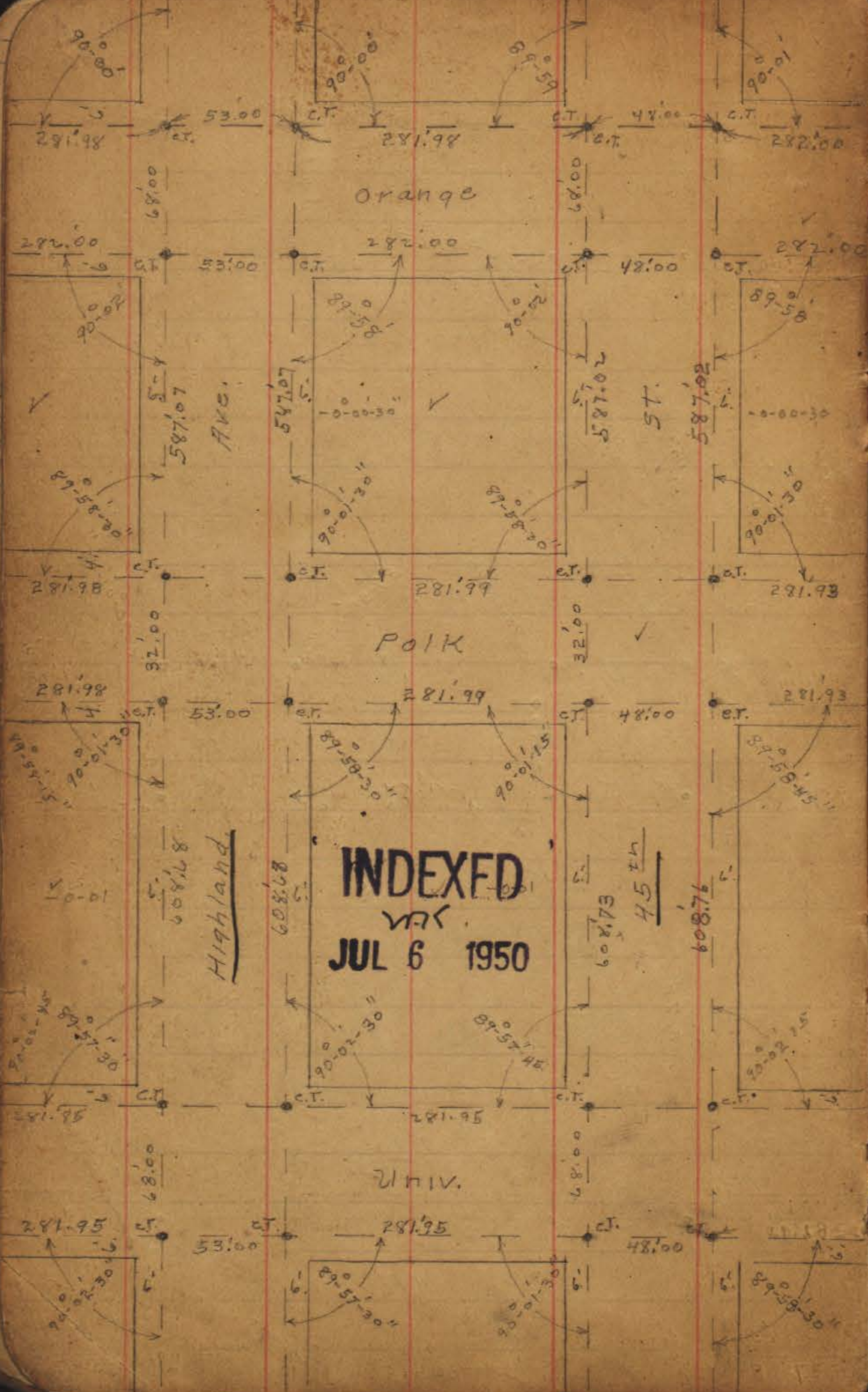
608.60
 608.60

University

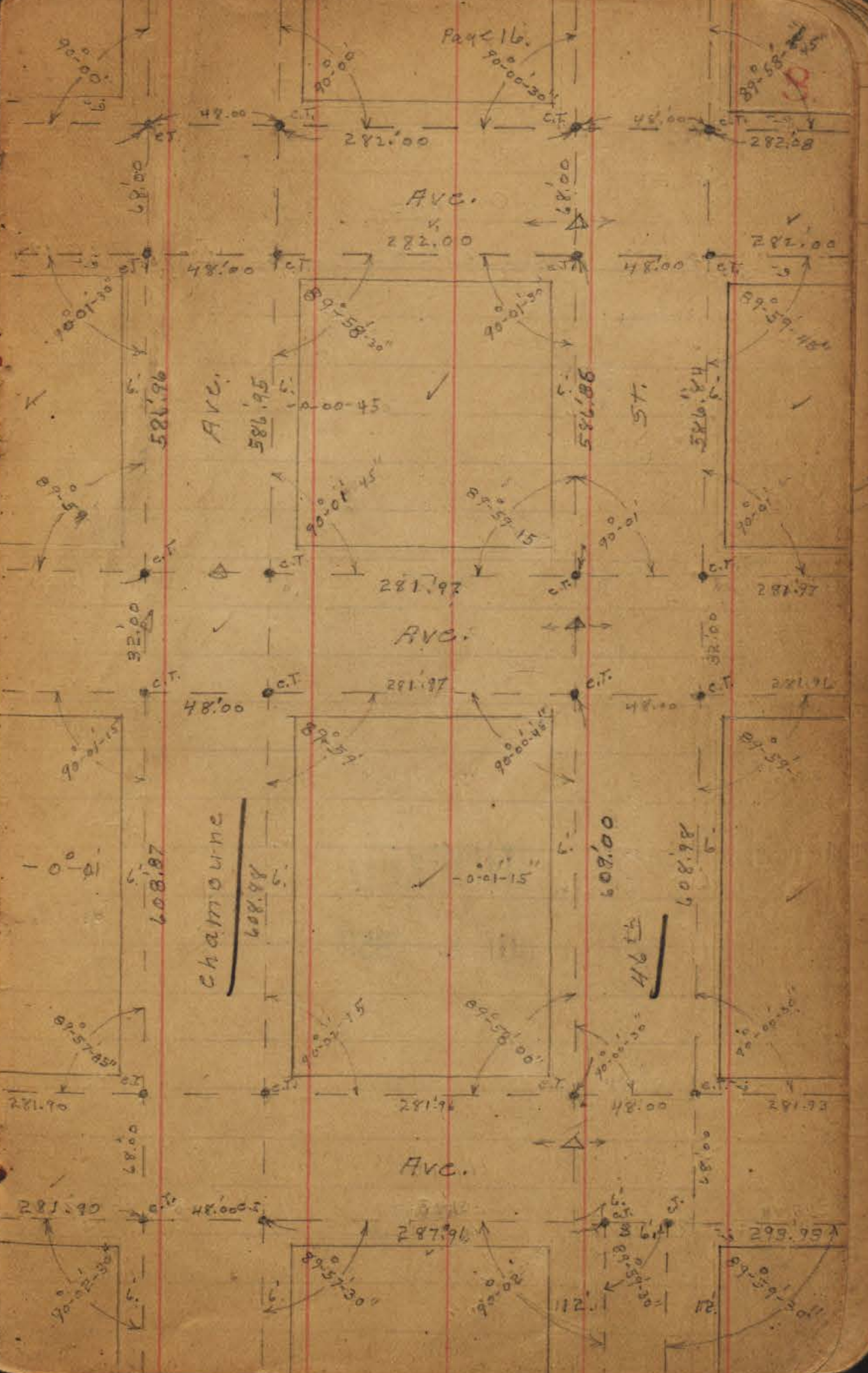
Ave.

Chise/Cross
 515.02
 8-17-45

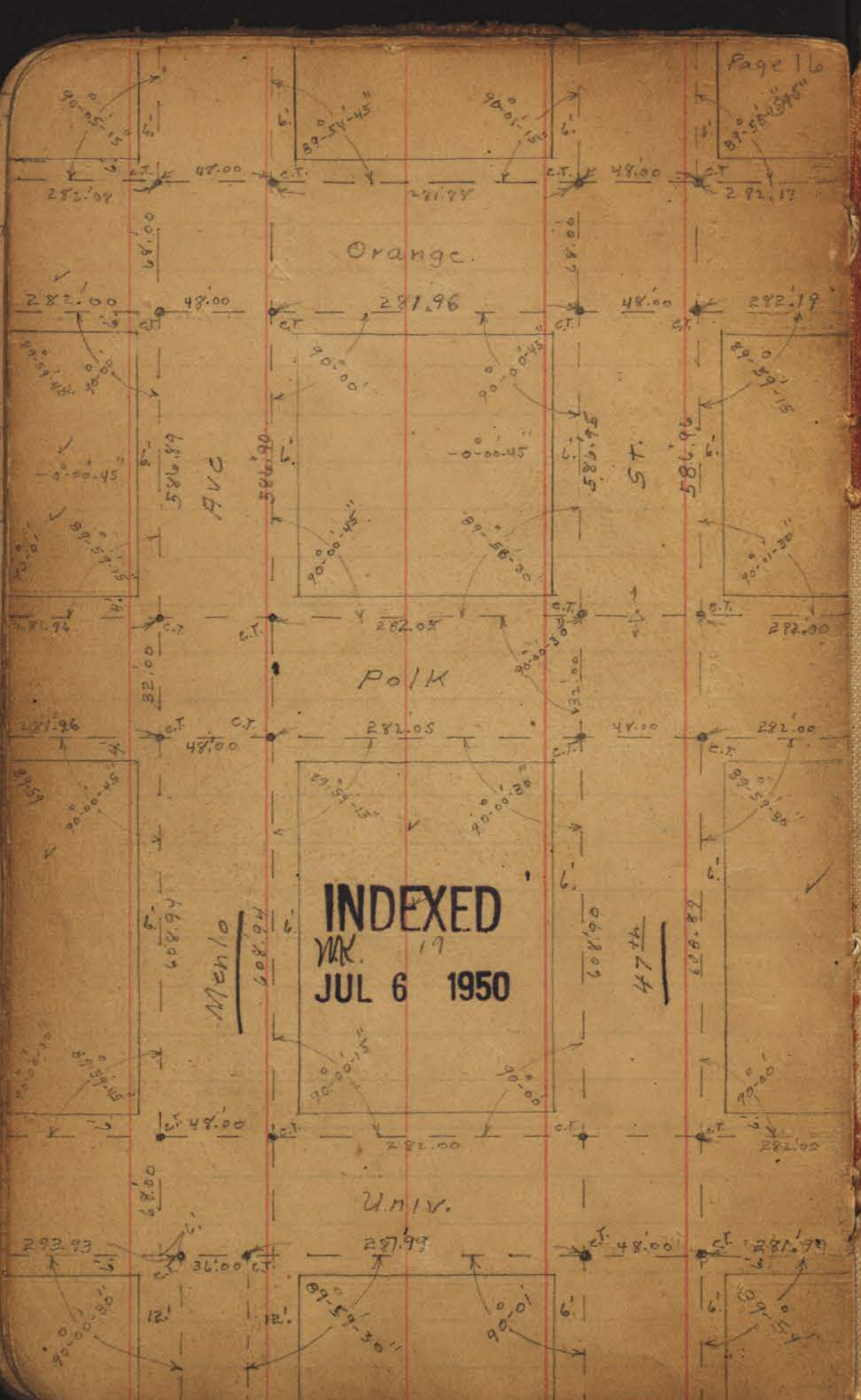
L.H.
 2-17-45



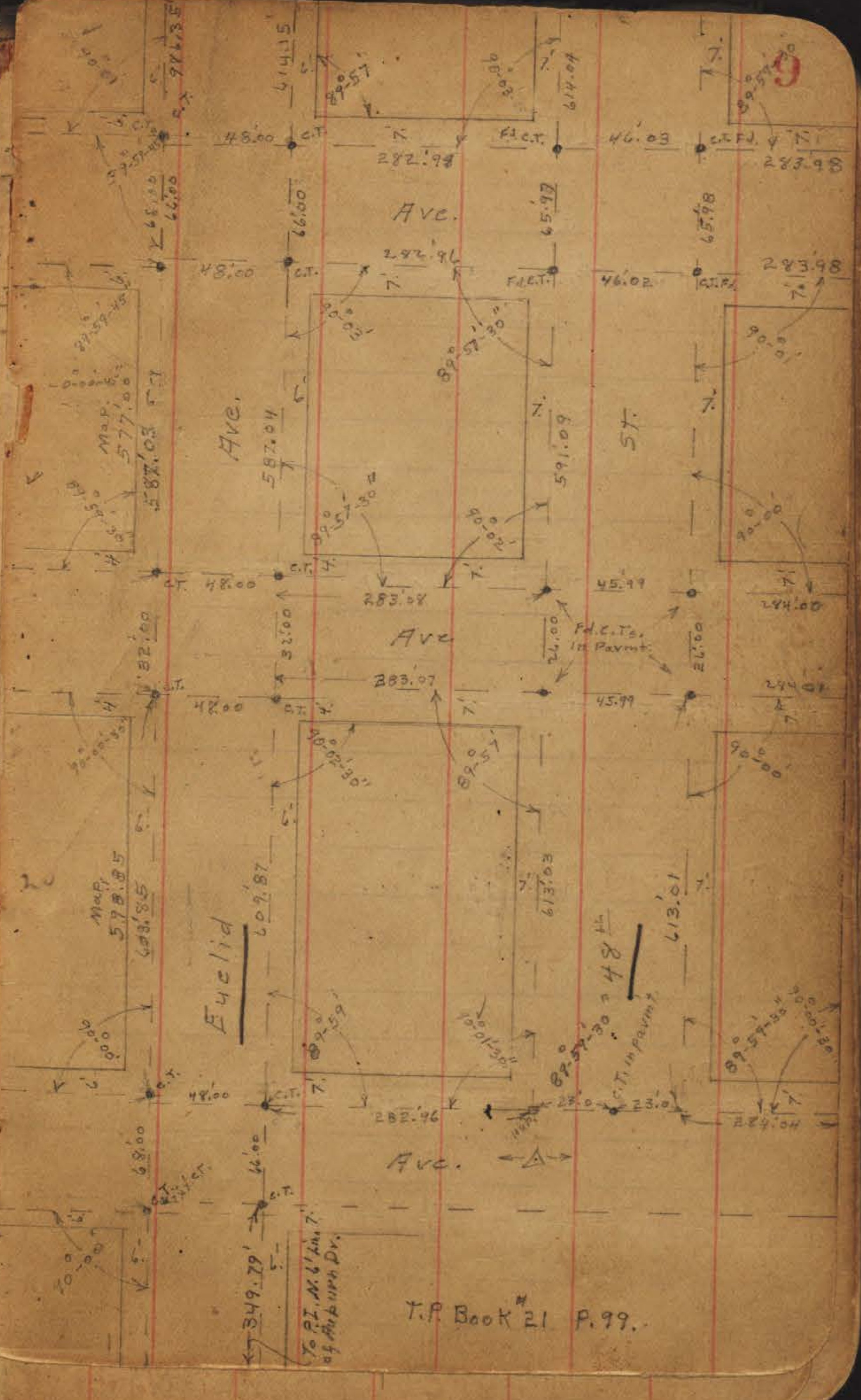
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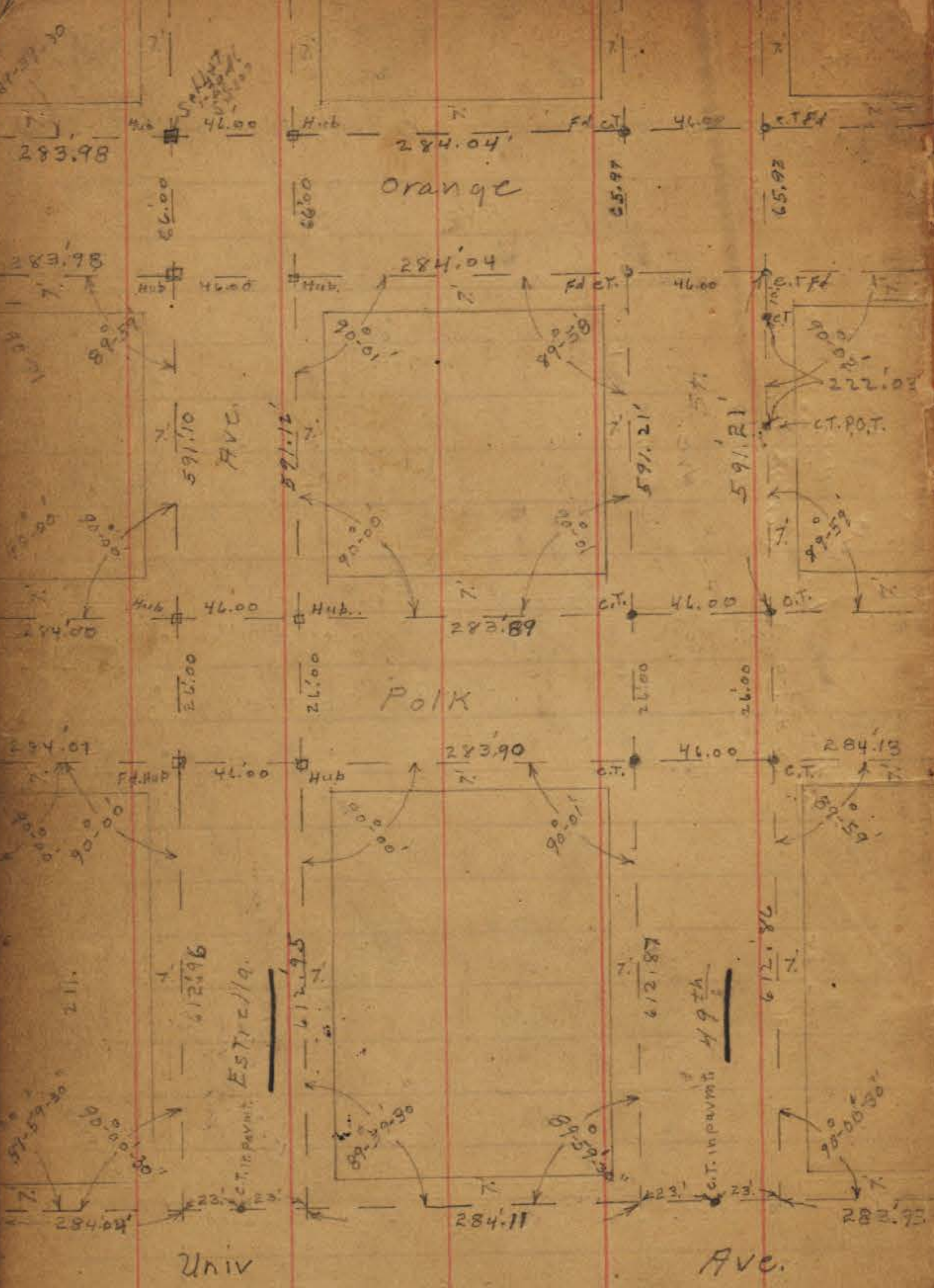


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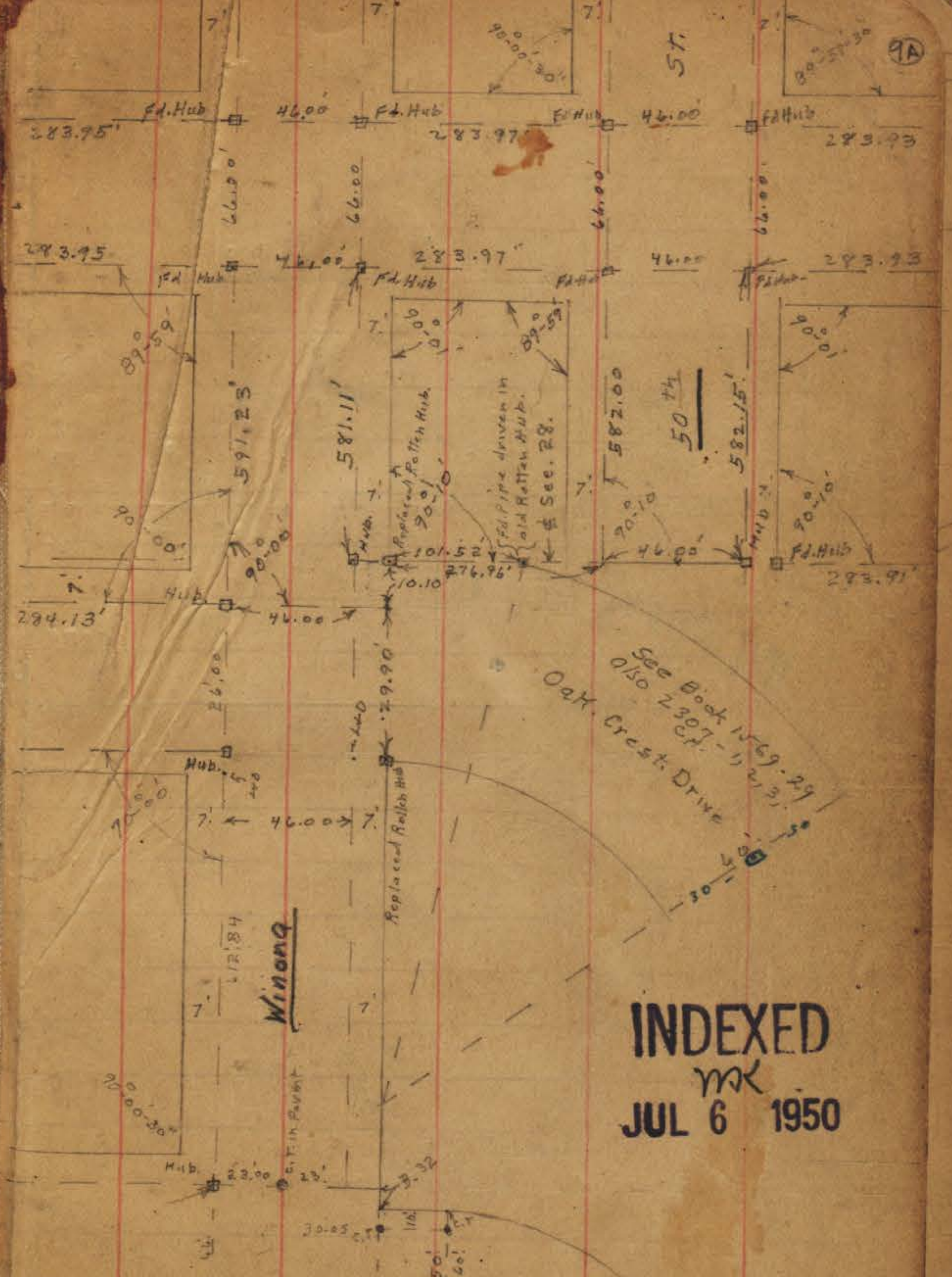


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Univ Ave.



Winona

Oak Crest Drive

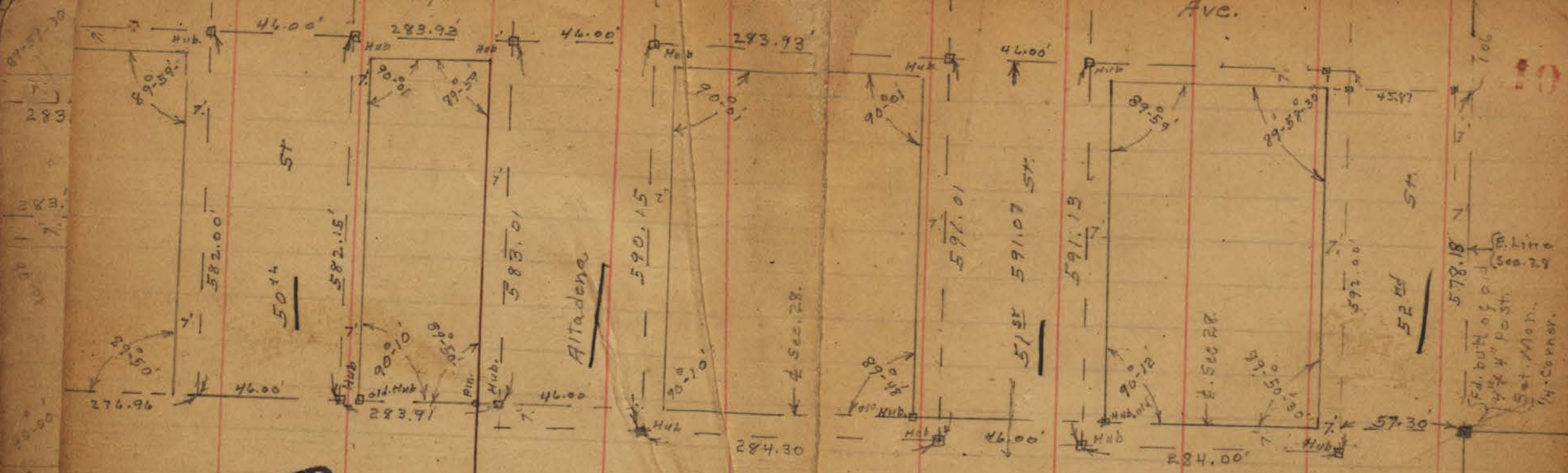
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also 2307-11, 213

See Book 1569-28

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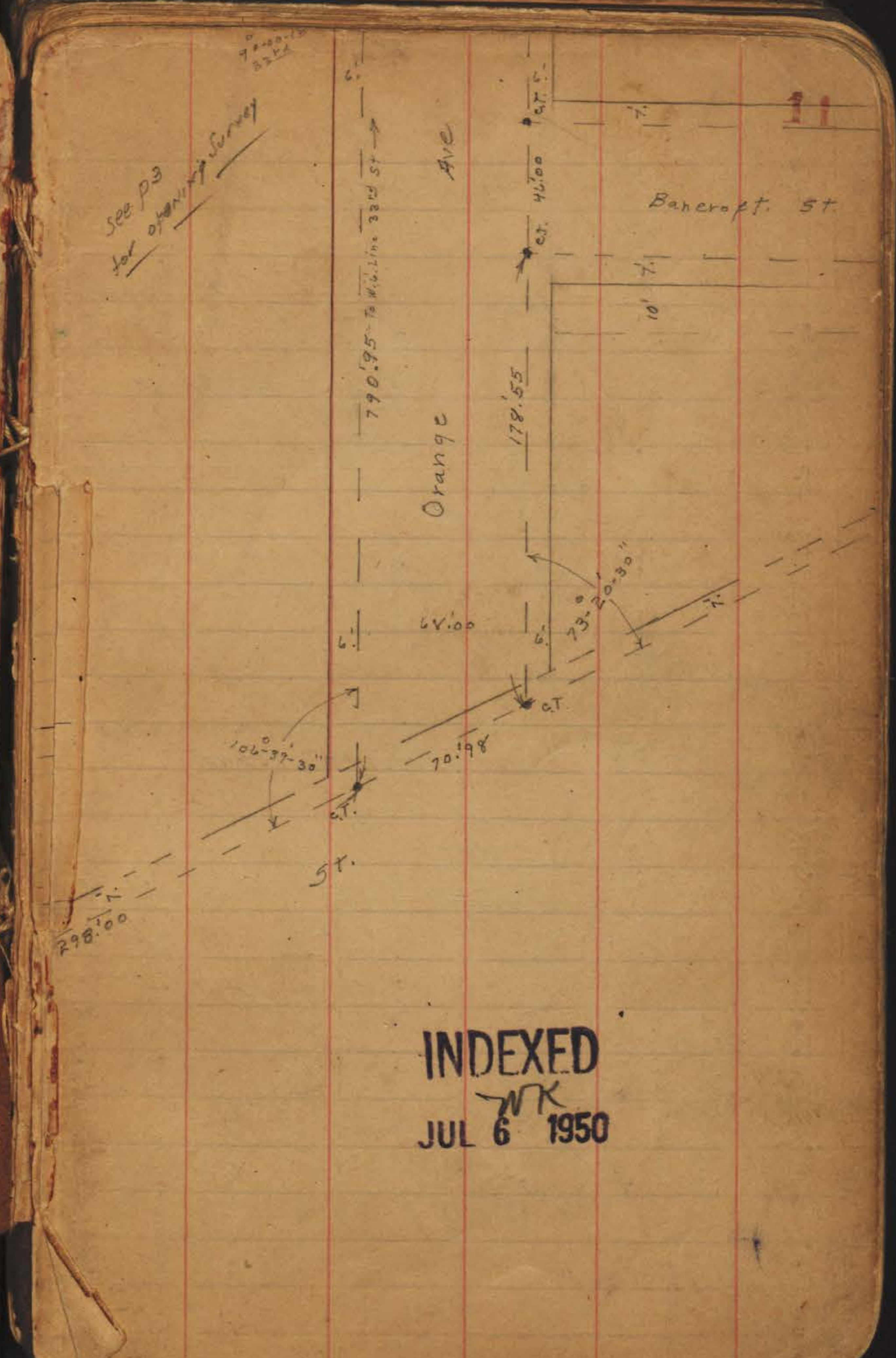
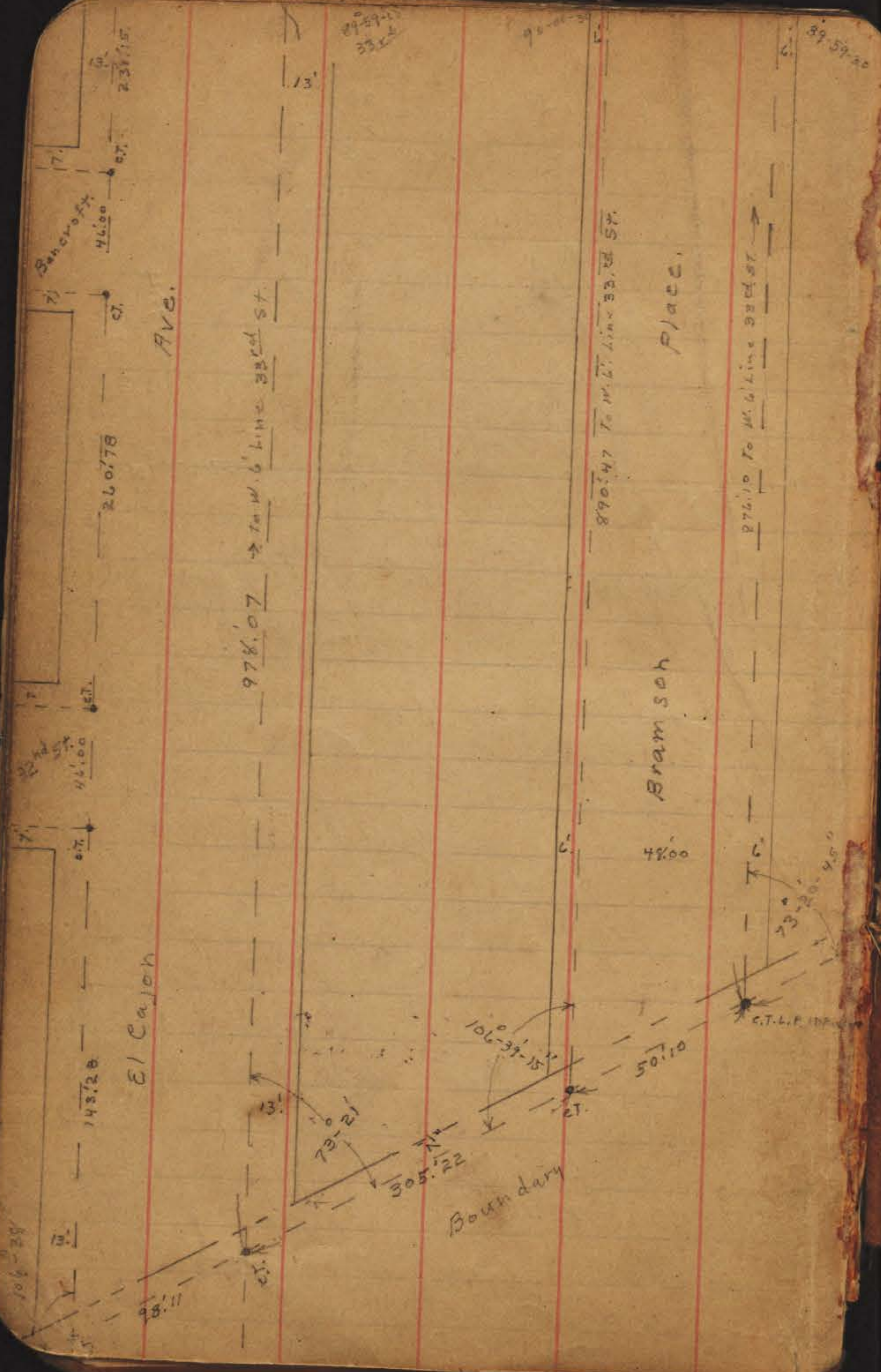
Orange

Ave.



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mk.
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(Anna)



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 WK
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33rd Place

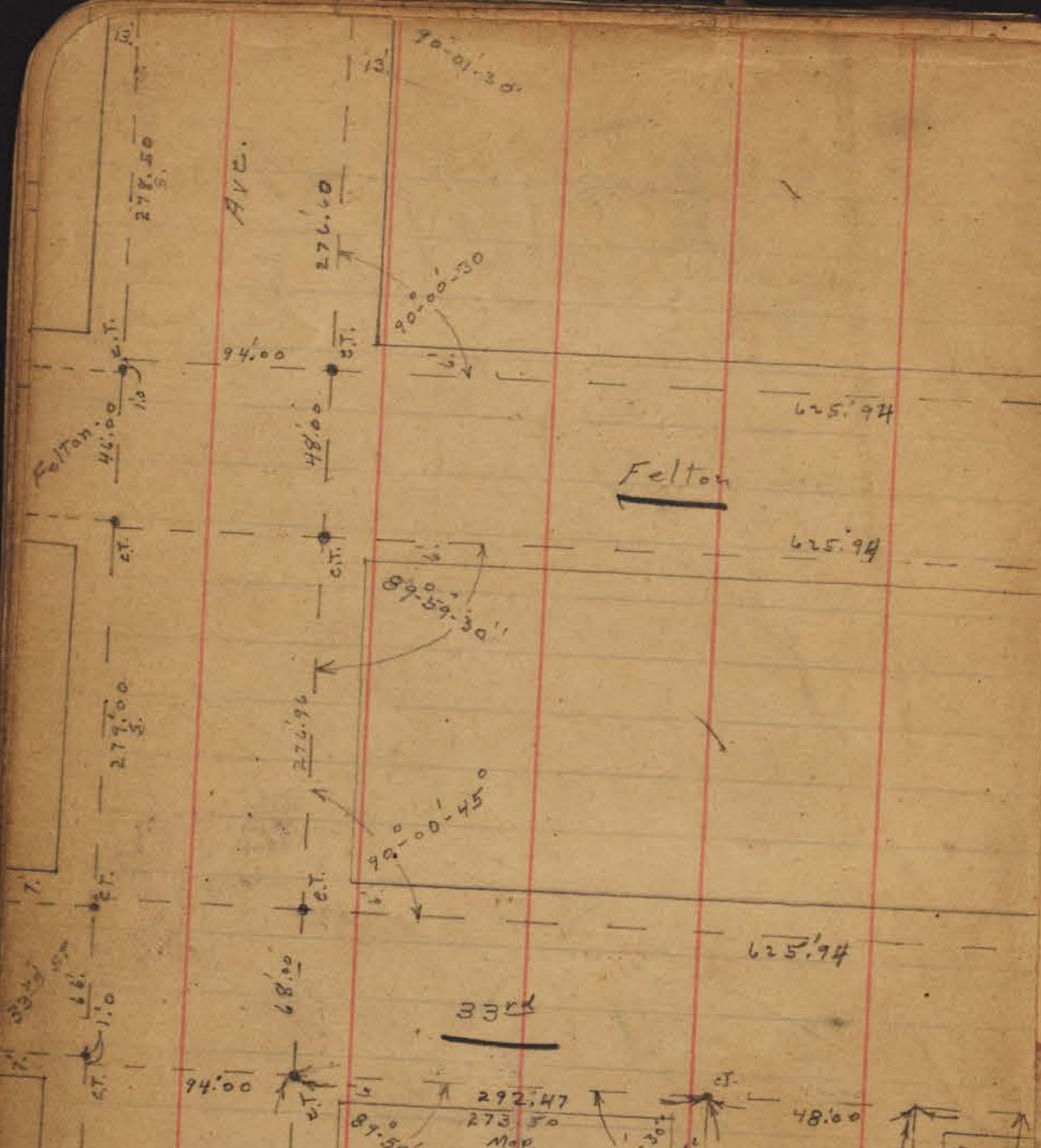
El Cajon

To E. T. Line Boundary 978.07

To E. T. Line Boundary 890.47

Bramson

To E. T. Line Boundary 876.10



Felton

625.94
625.94

625.94

292.47
273.50
Map.

87°-59'-15"

90°-00'-30"

87°-59'-15"

09°-58'

Ave St.

Ave. St.

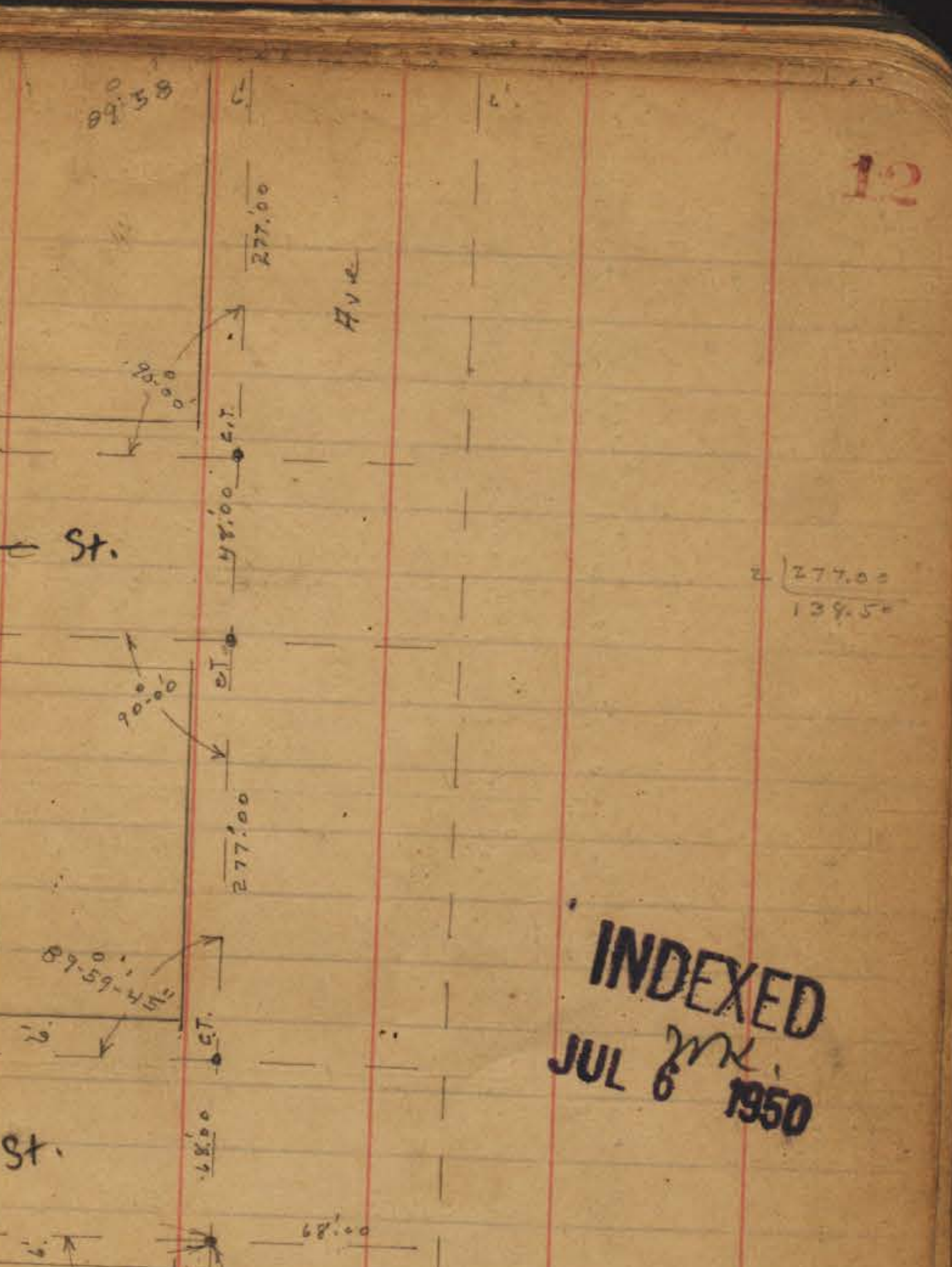
625.94
285.47
273.50
Map.

87°-59'-45"

90°-00'-15"

To E. T. Line Boundary 790.95

Orange

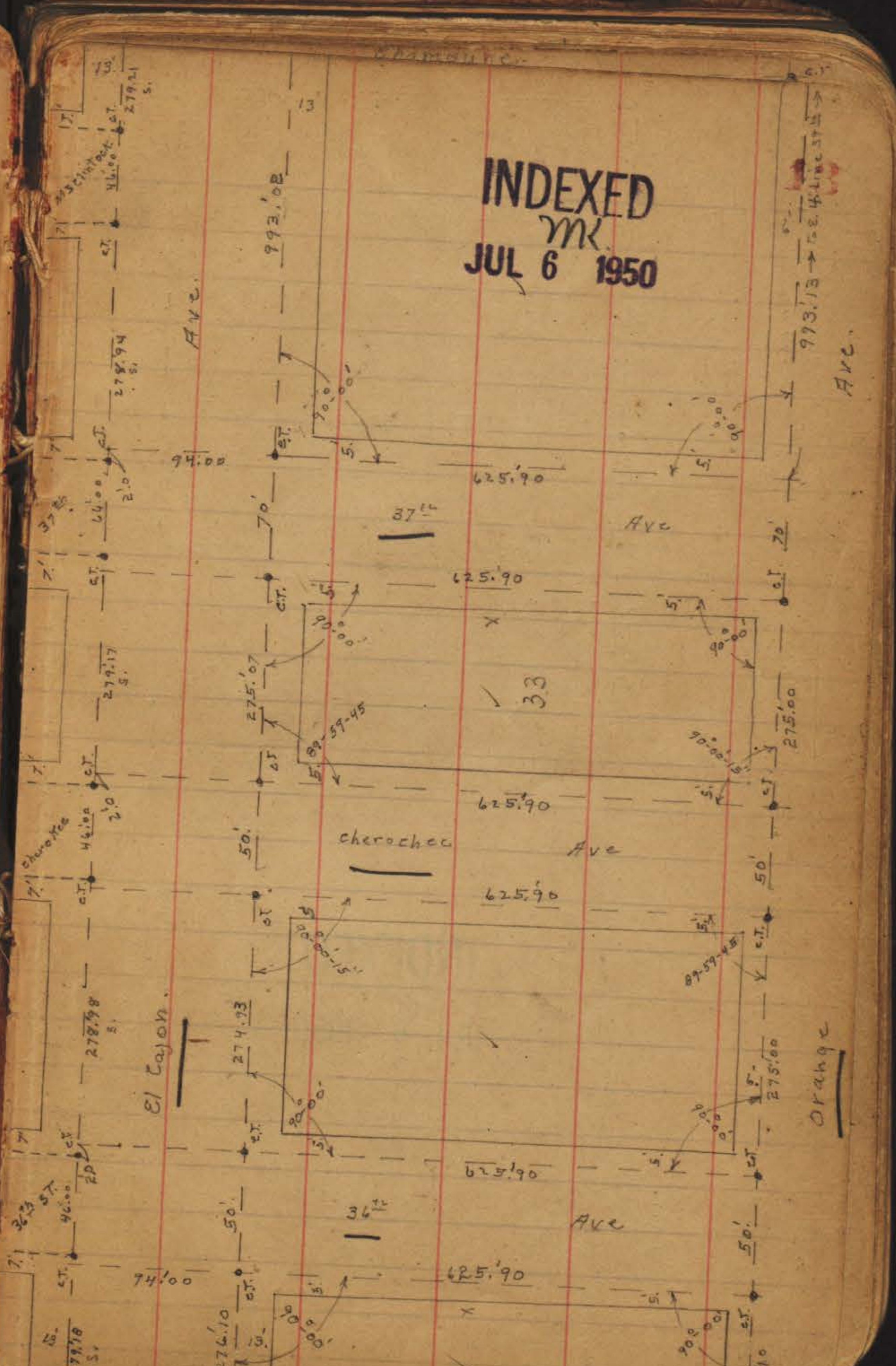
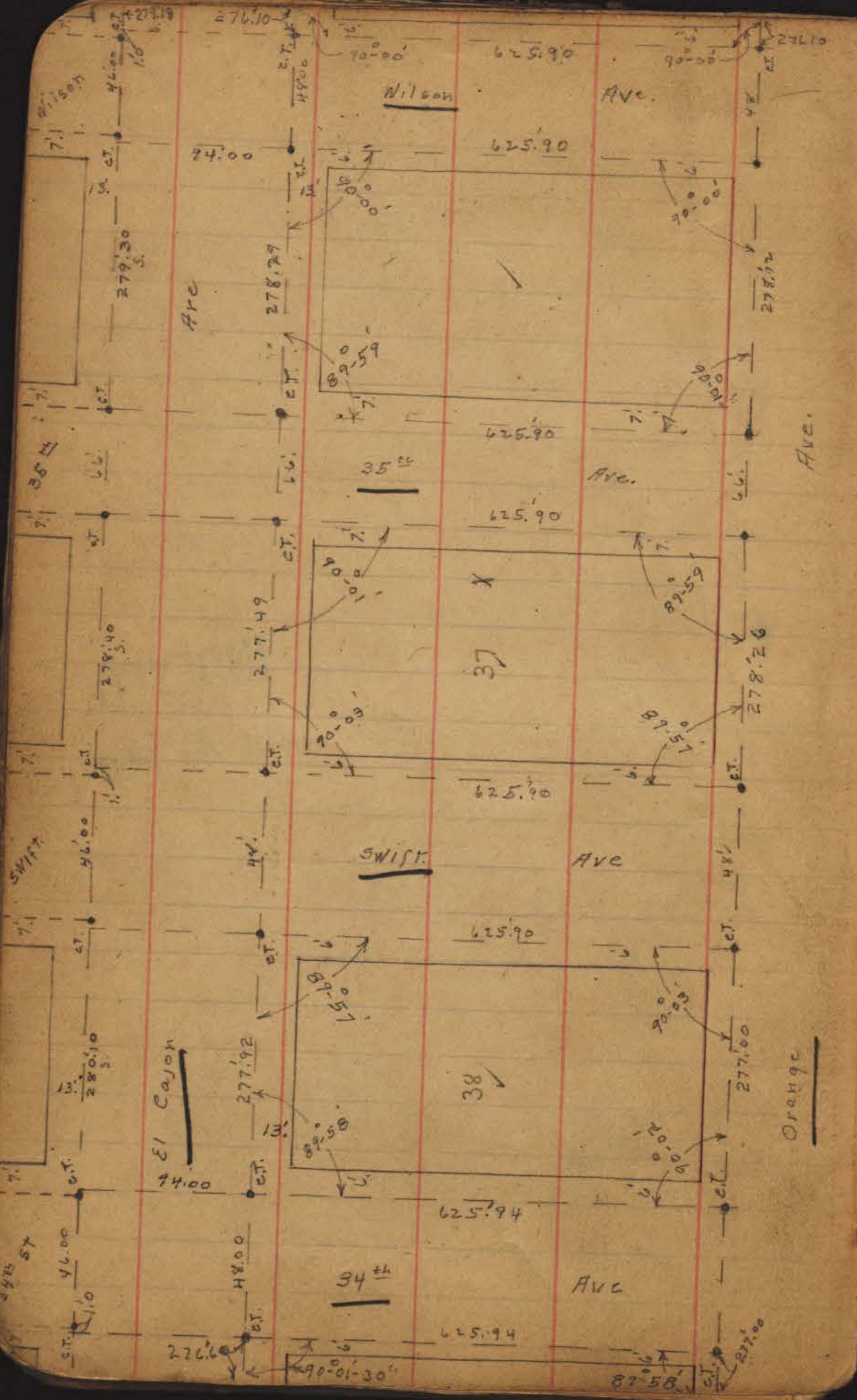


12

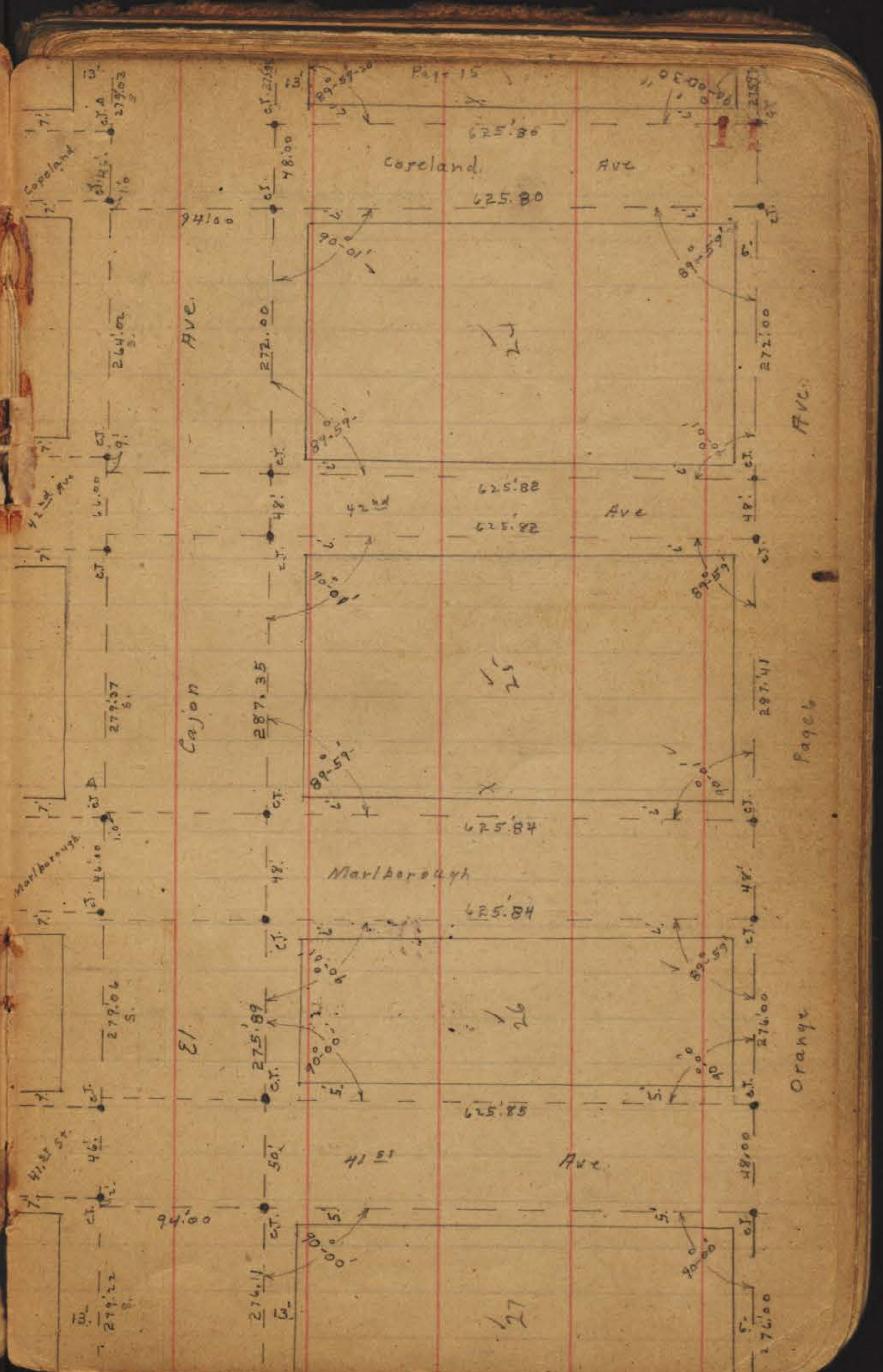
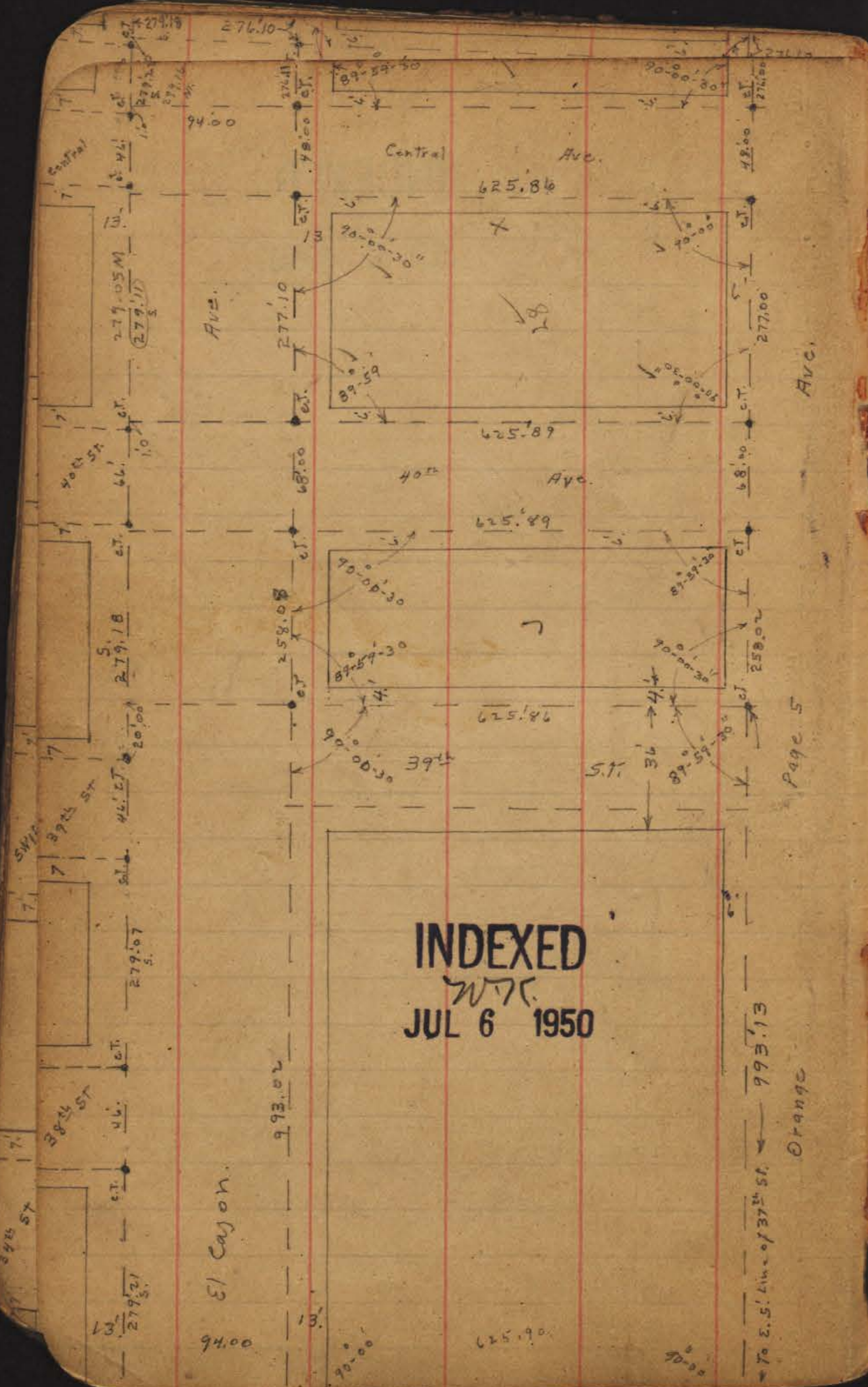
INDEXED
JUL 6 1950

277.00
139.50

104-39-30
E1



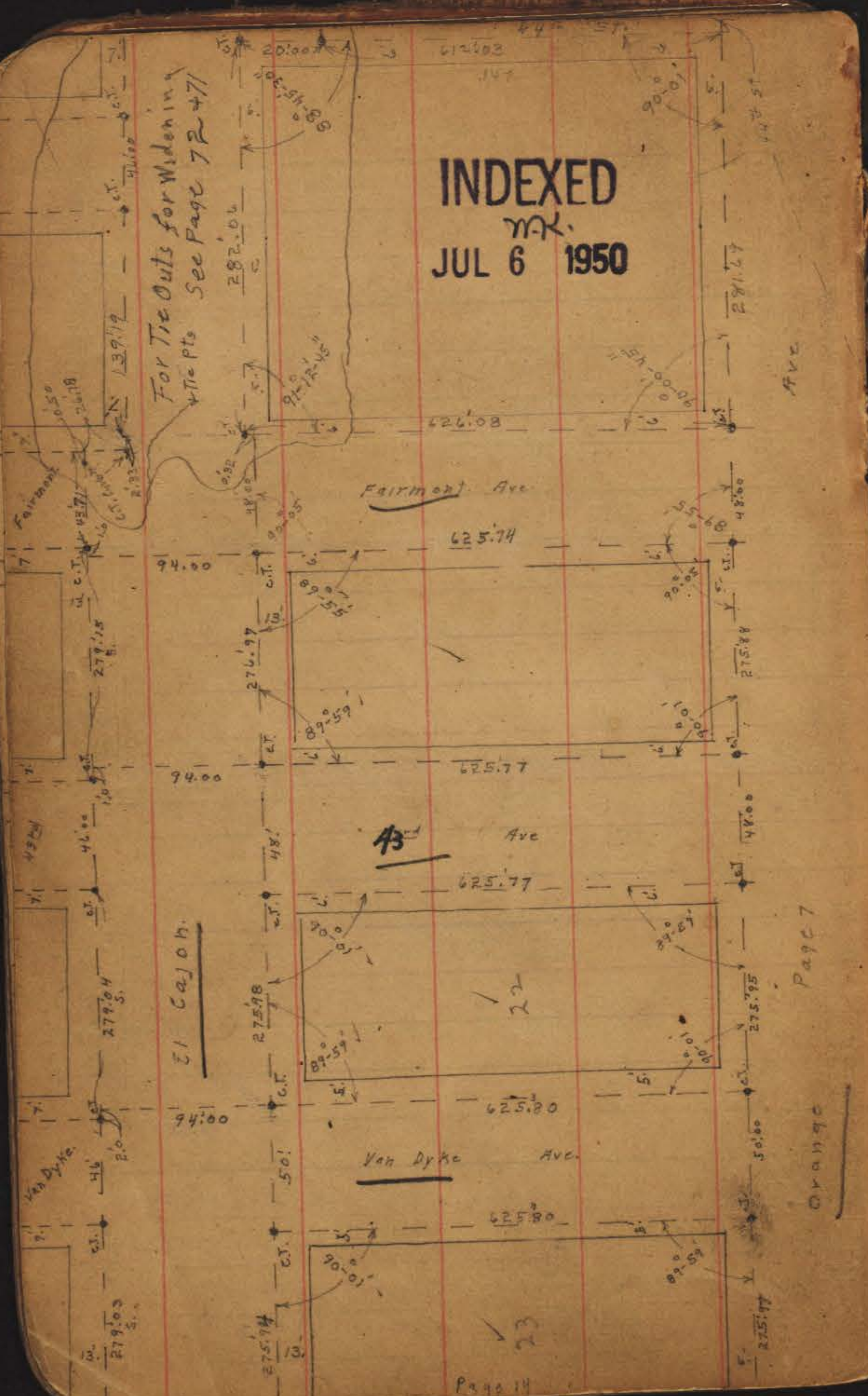
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WJK
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For Tie Outs for Widening
+ Tie Pts See Page 72 + 71

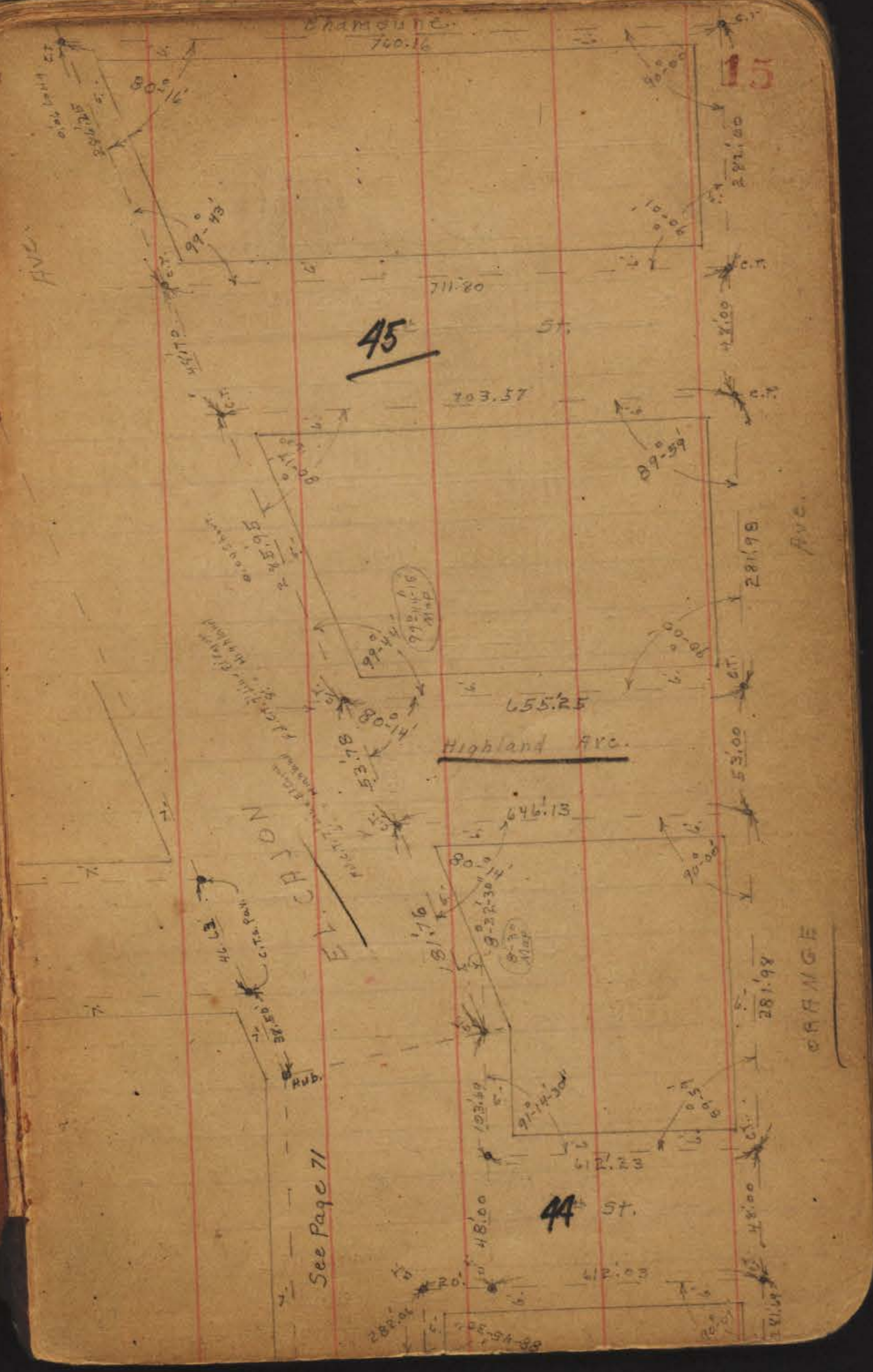


Page 7

Orange

Page 14

Diamond 700.16



15

45

See Page 71

Orange

44 St.

EUCLID Ave. 986.35

Ave.

47th St.

929.80

Menlo

873.43

824.92

46th St.

816.70

El Cajon

Orange

Chamouno

768.16

See T.P. Book 18

Page 9

Ave

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Plotted on the sheets
6-8-56, c.s.A.

Ave

ESTRELLA

Page 17

Cañon

48th St.

393.76

385.75

TROJAN

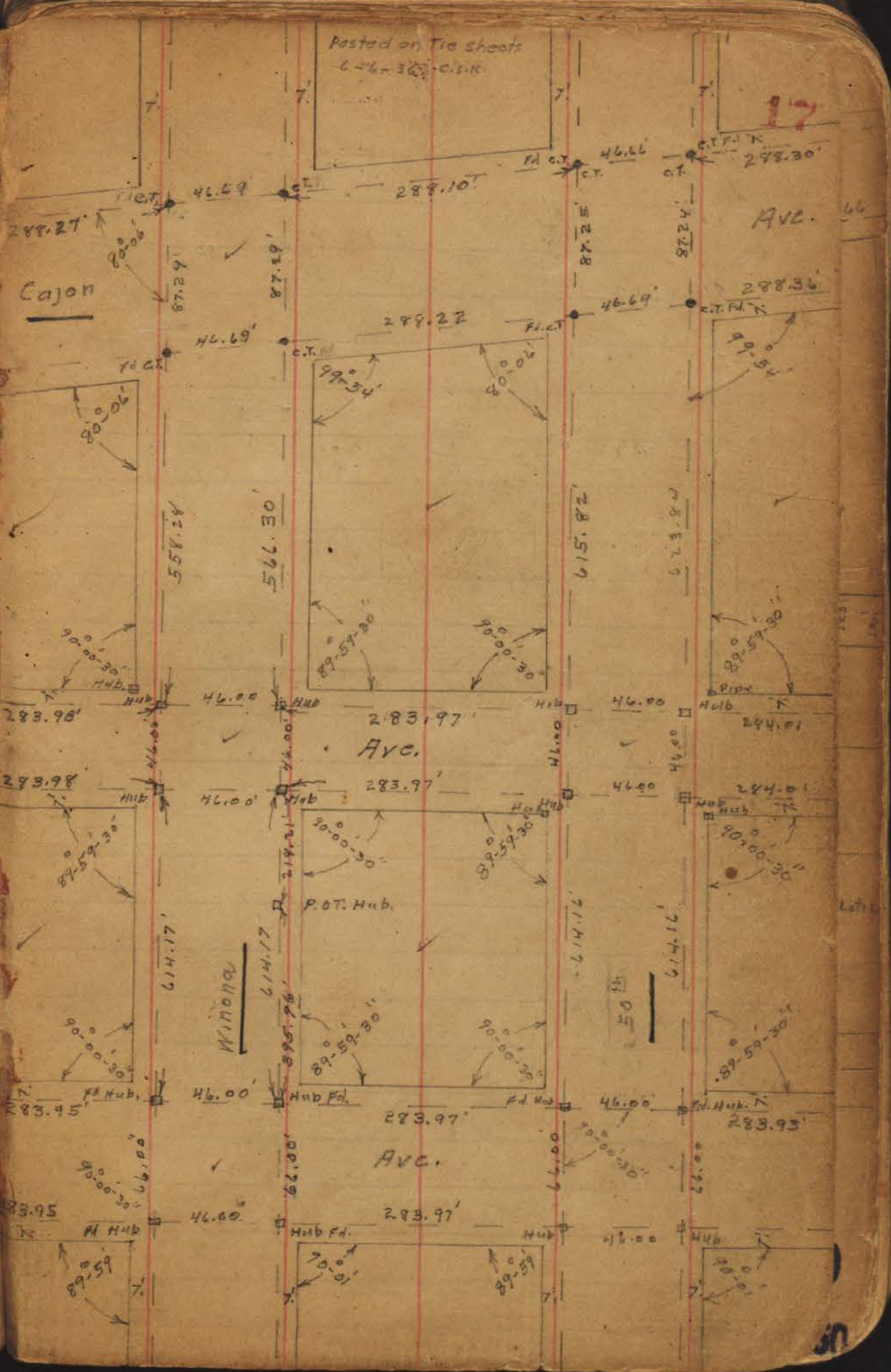
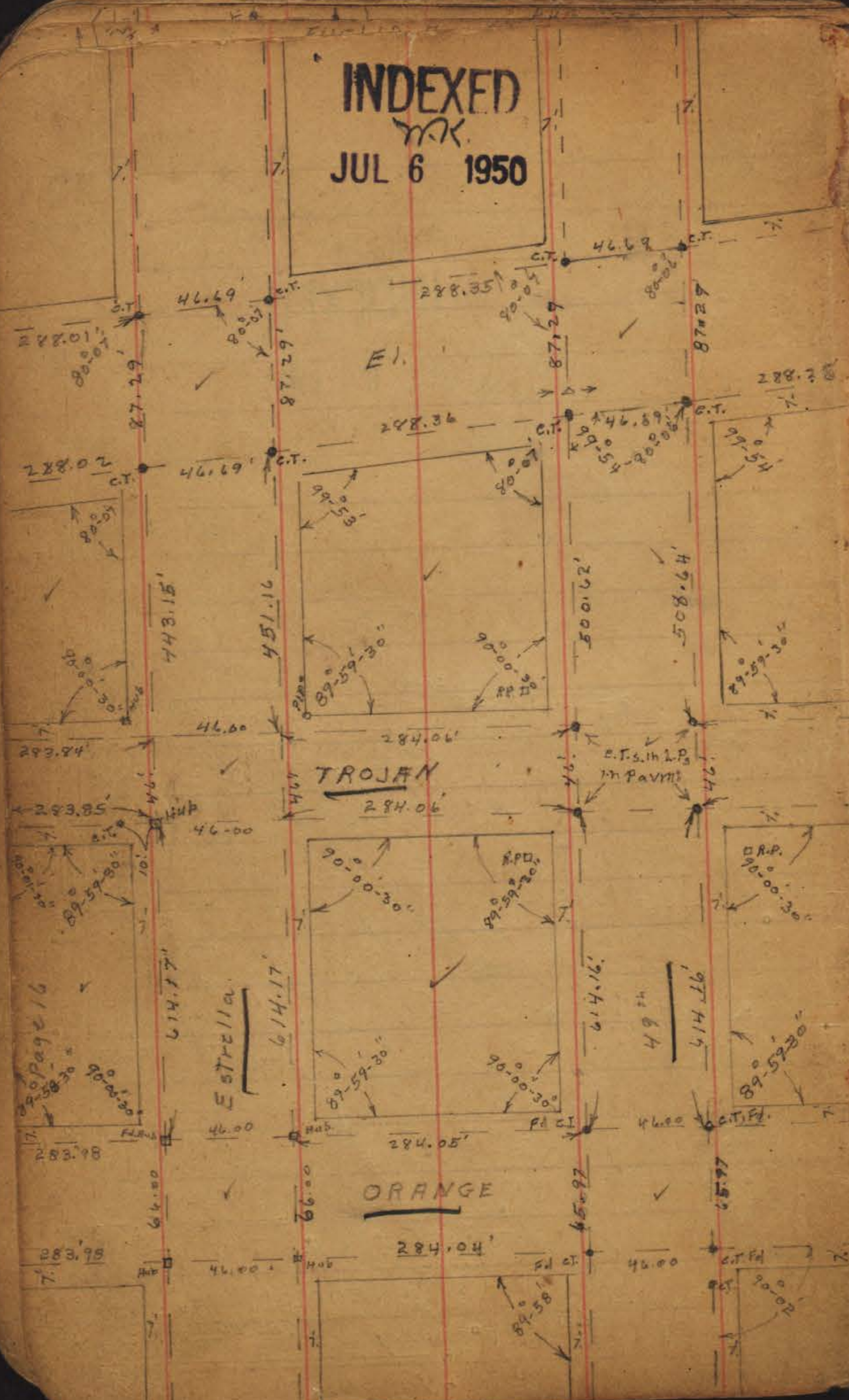
EUCLID Ave.

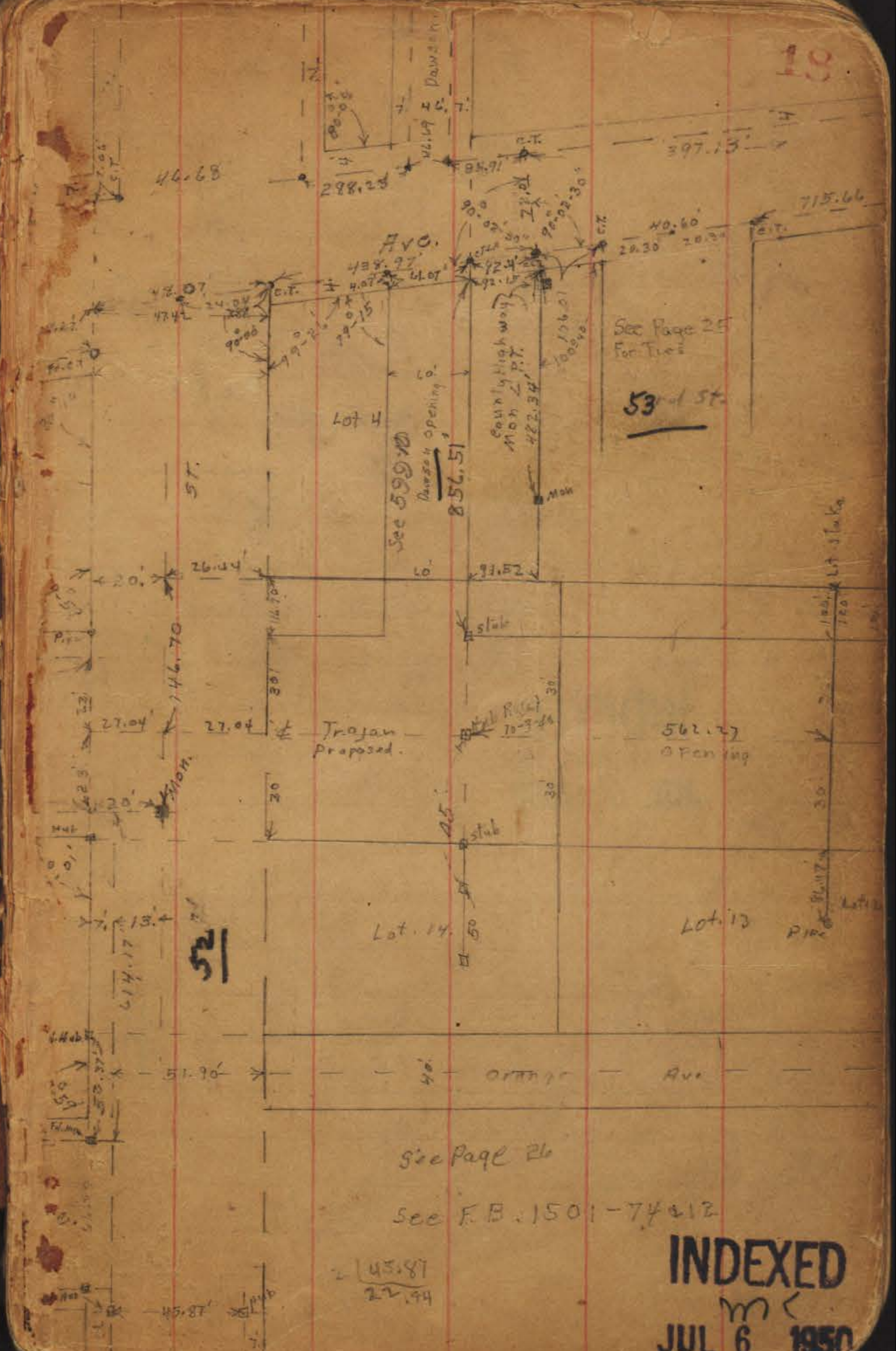
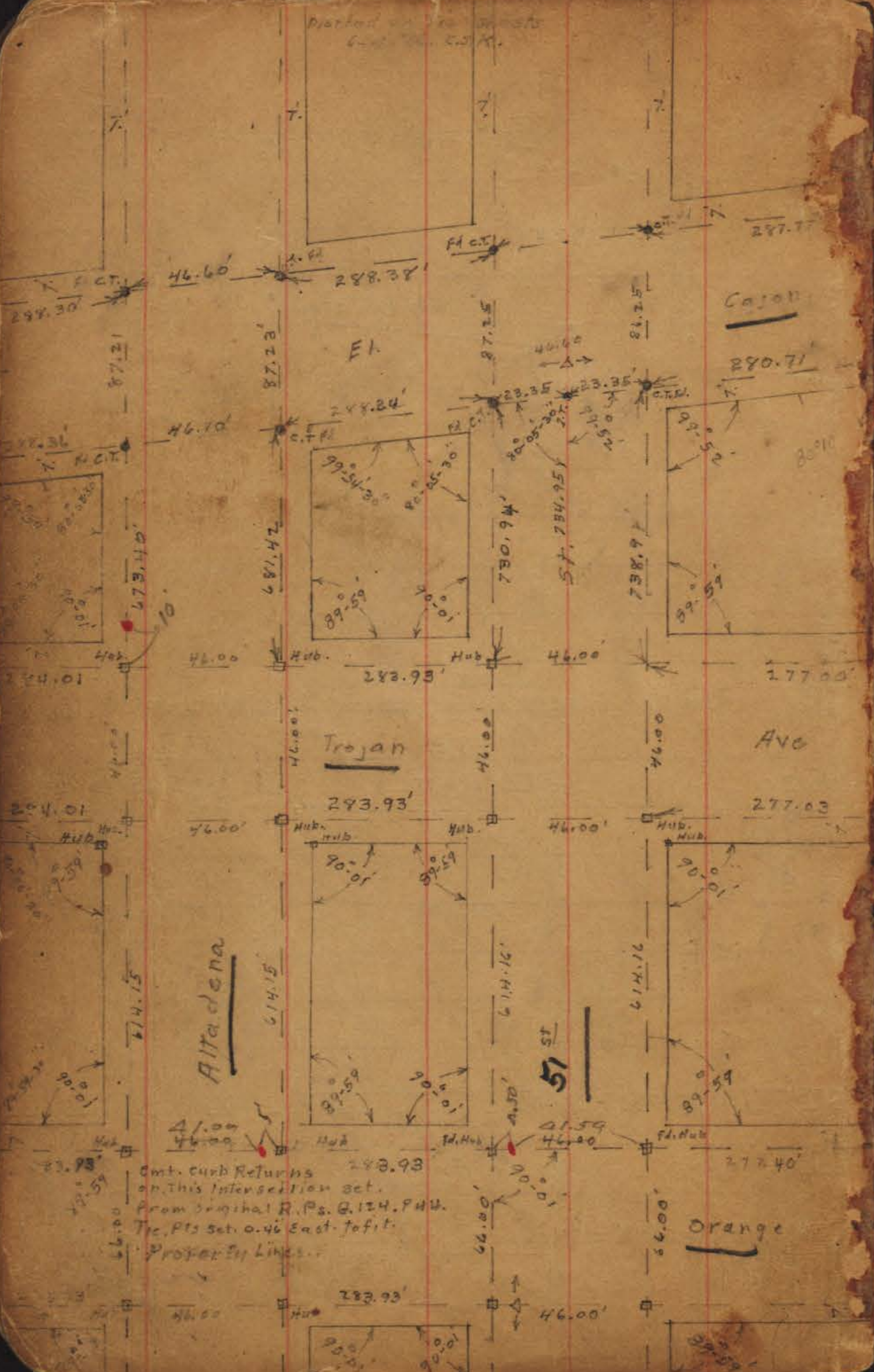
986.35

ORANGE



INDEXED
M.K.
JUL 6 1950

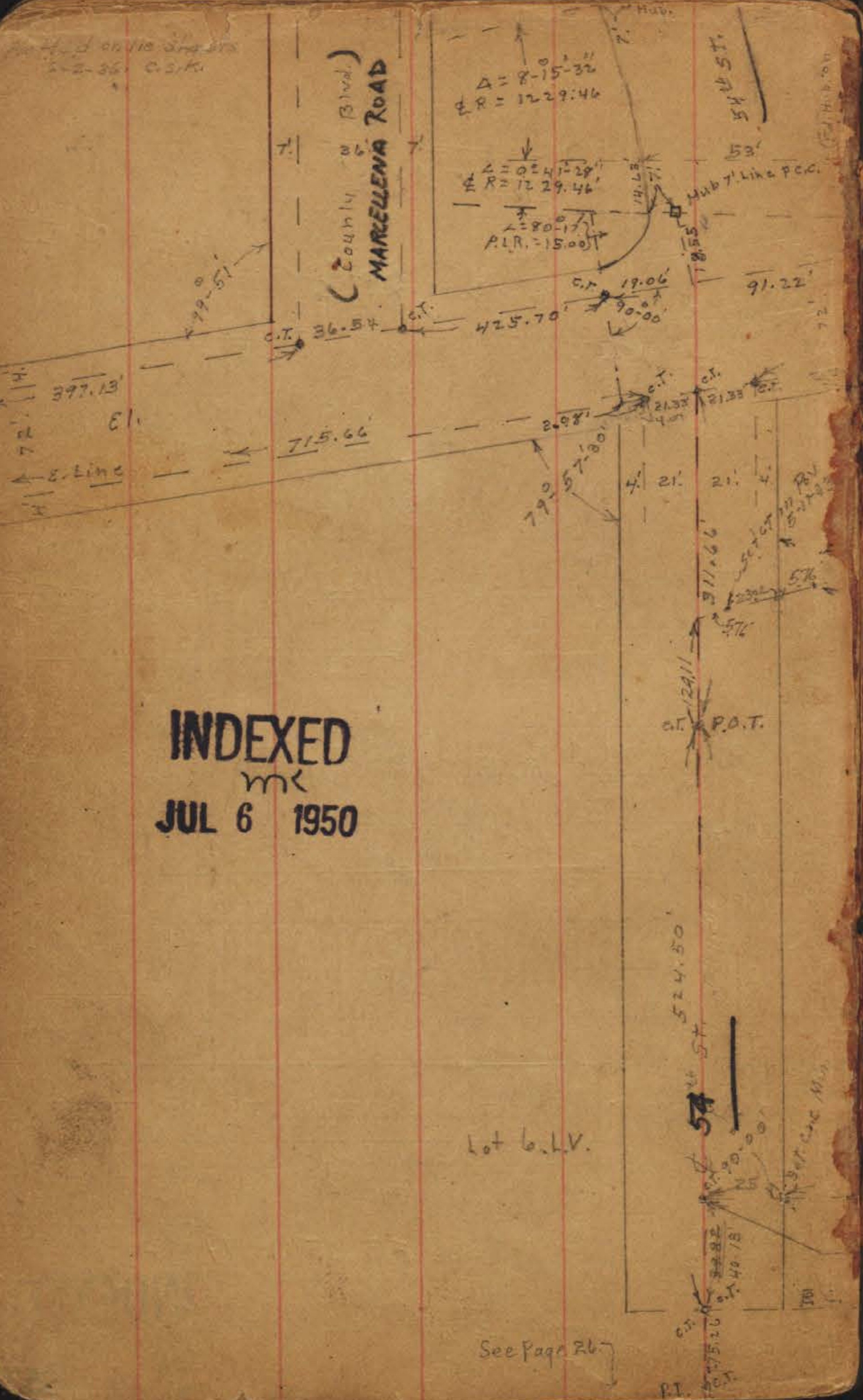




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Hub
2-2-36 C.S.R.

MARCELENA ROAD
(County Blvd.)

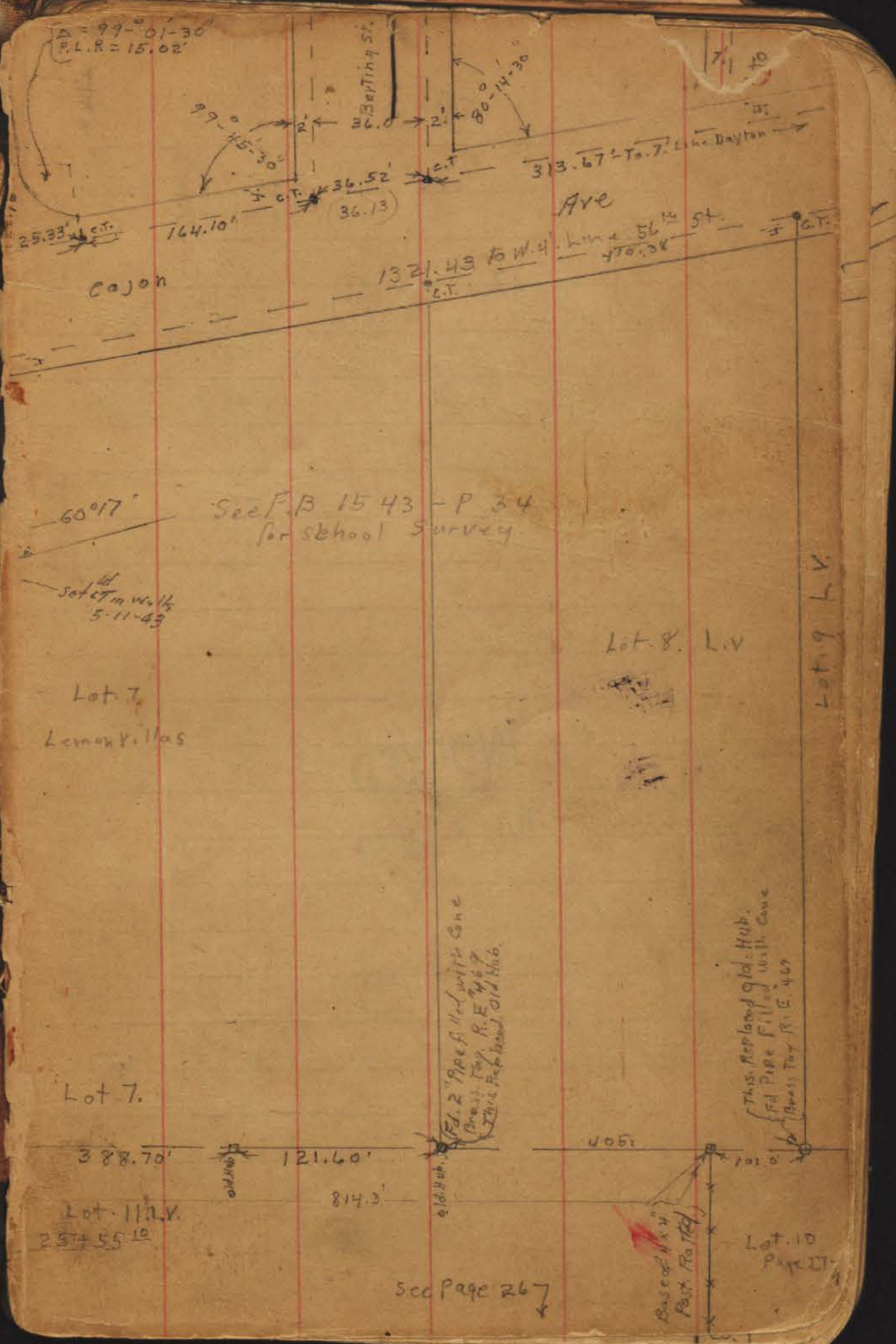


INDEXED
mk
JUL 6 1950

Lot 6, L.V.

See Page 267

$\Delta = 99^\circ 01' 30''$
P.L.R. = 15.02'



See F.B. 1543 - P. 34
for school survey

Set c.t. in walls
5-11-43

Lot 7
Lemon Villas

Lot 8, L.V.

Lot 9, L.V.

Lot 7

Lot 11, L.V.
25455 10

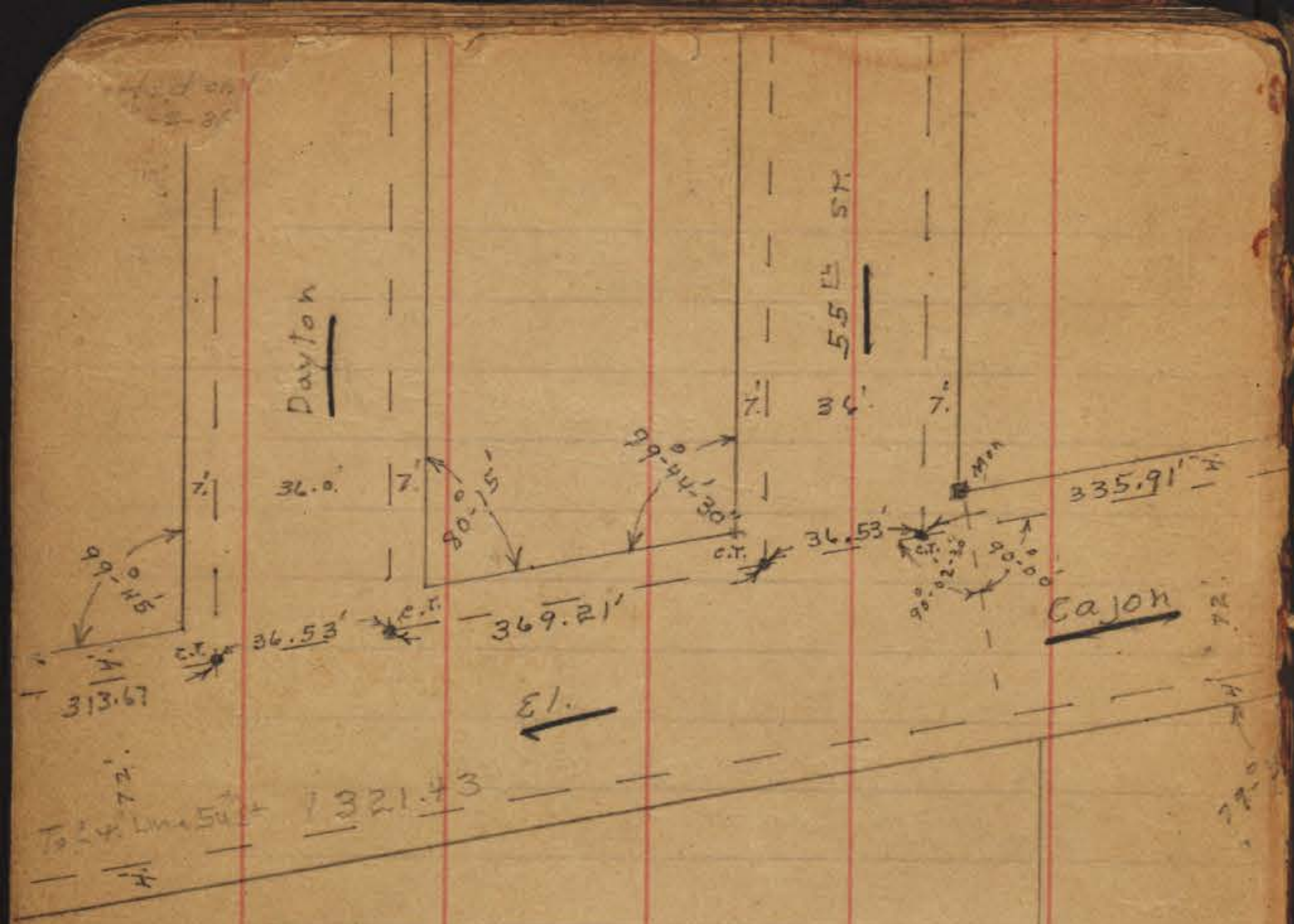
See Page 267

1/2" 2" Pipe filled with Conc
Press Top R.E. 1967
This Post found Old Hub.

This Post found Old Hub.
Fill Pipe Filled with Conc
Press Top R.E. 467

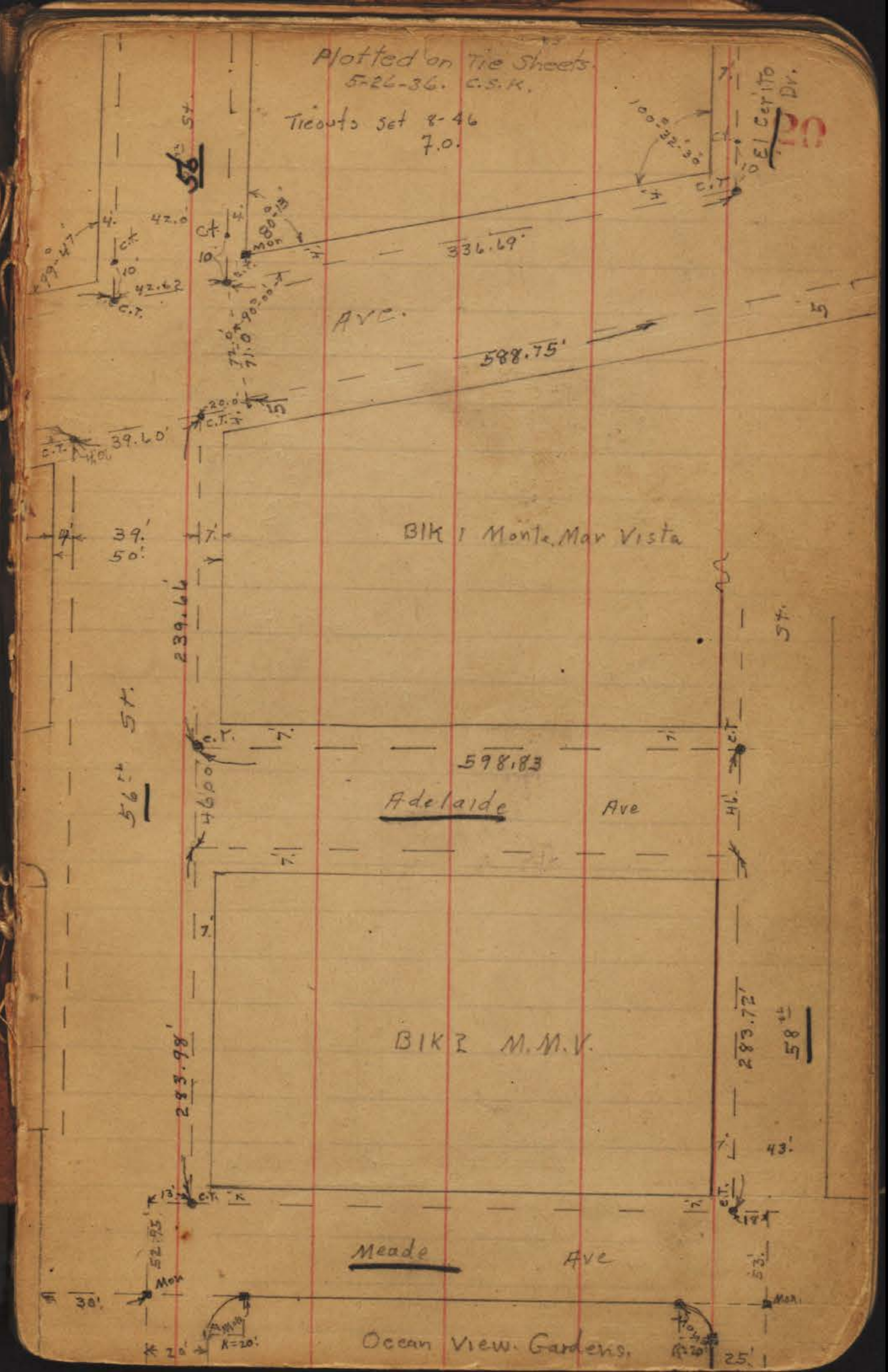
Base of New
Post. No. 104

Lot 10
Page 27



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 WK
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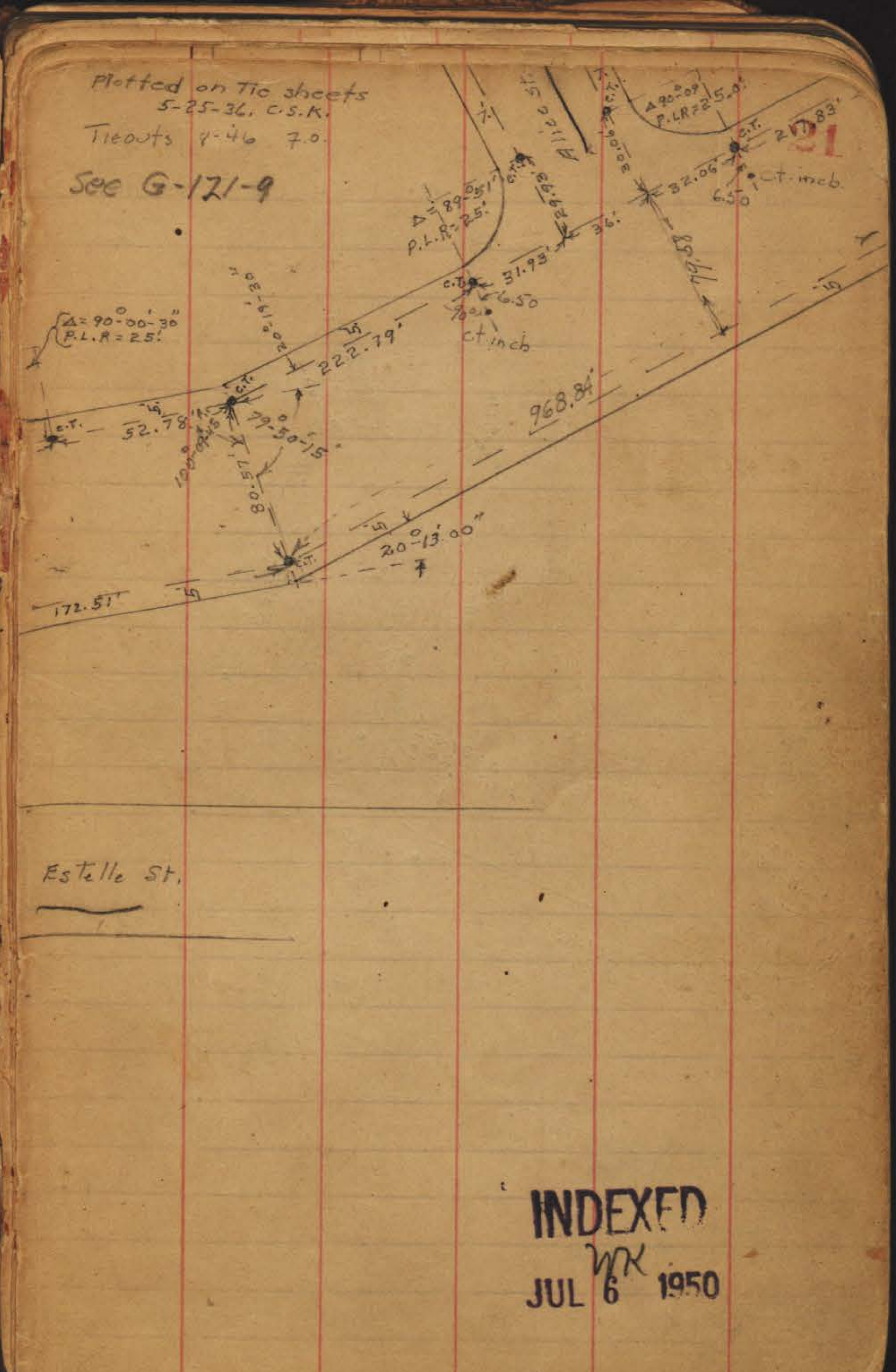
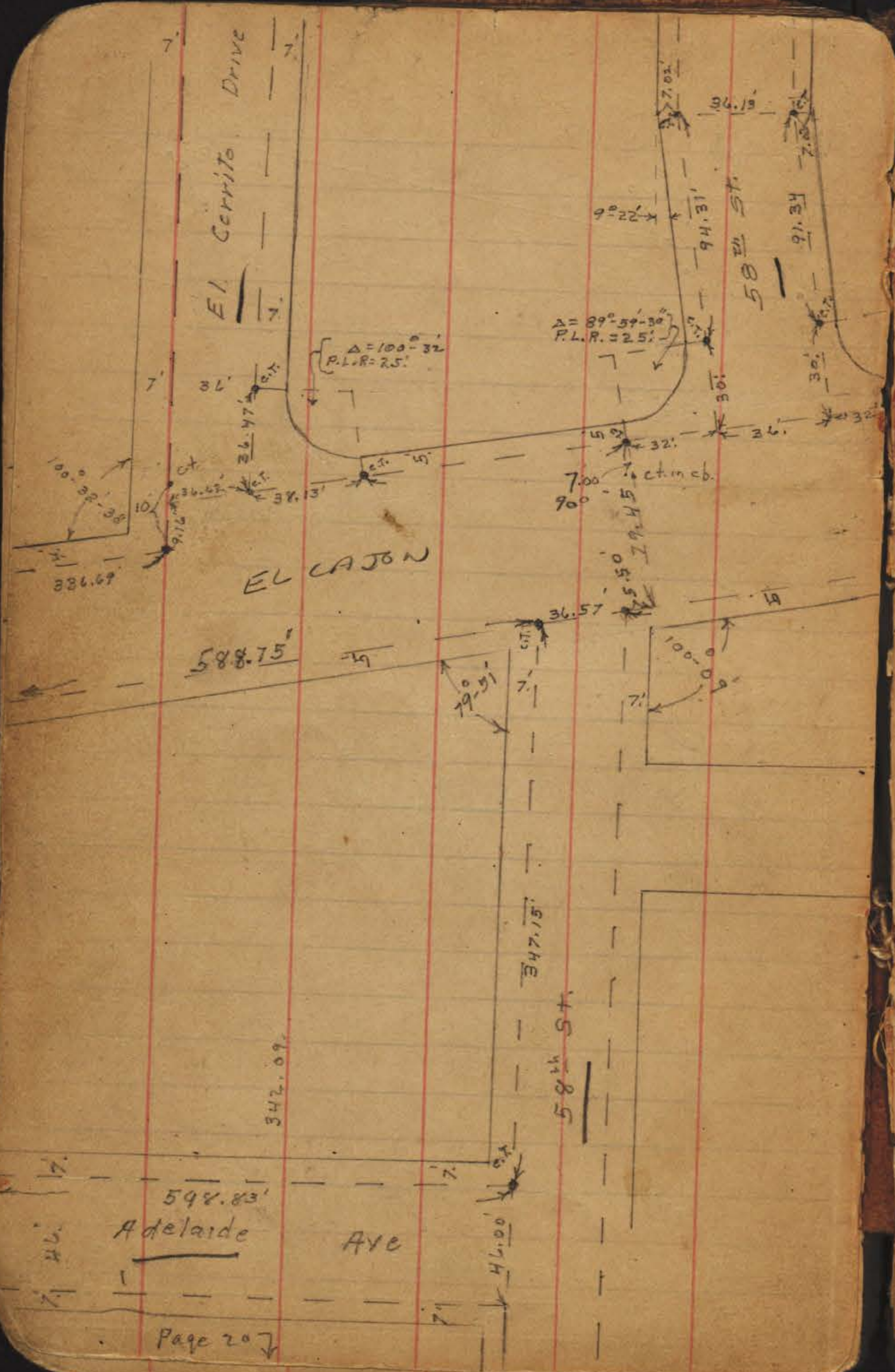
see Page 27

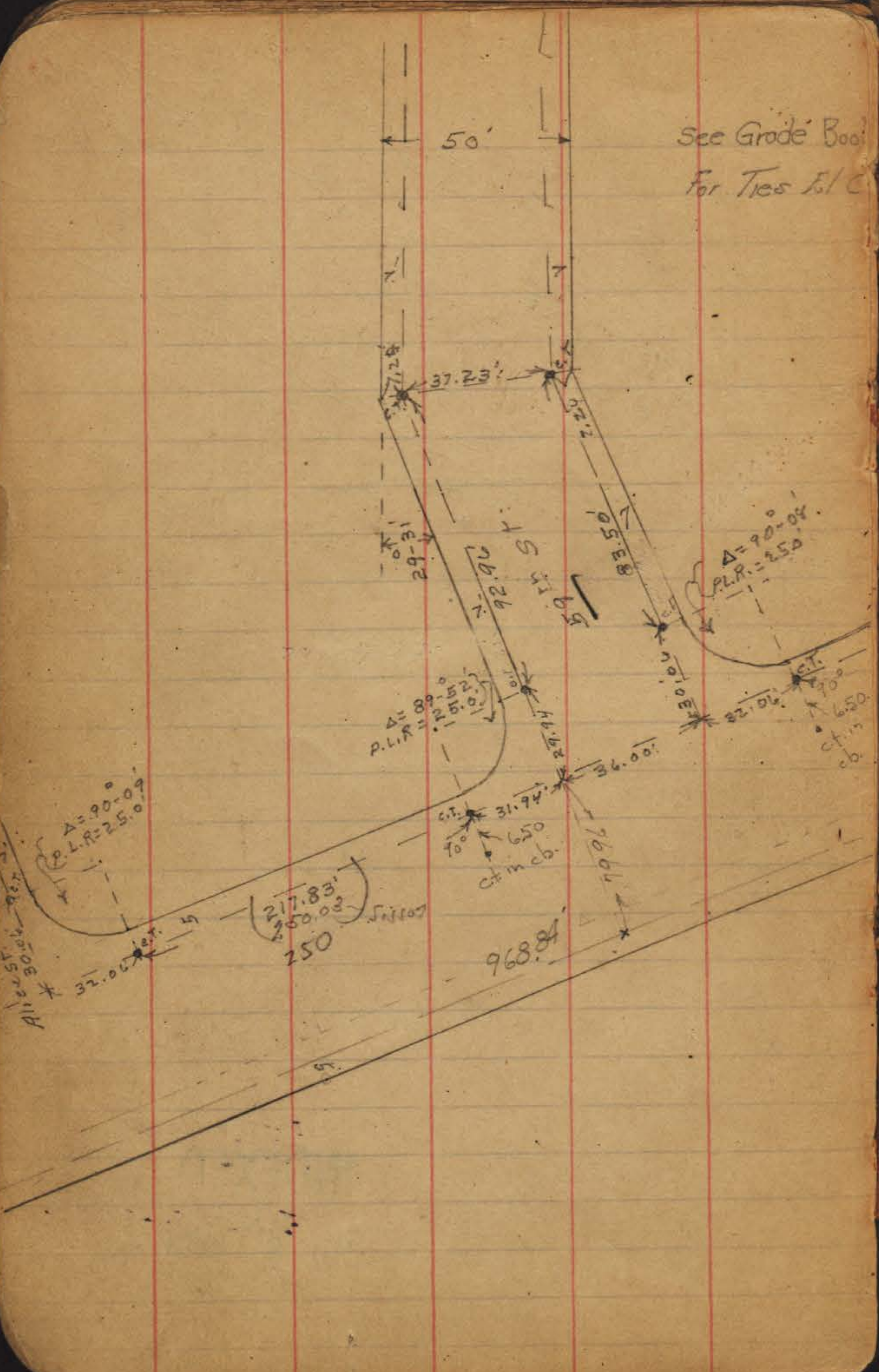


Plotted on Tie Sheets
 5-26-36. C.S.K.
 Tiesets set 8-46
 7.0.

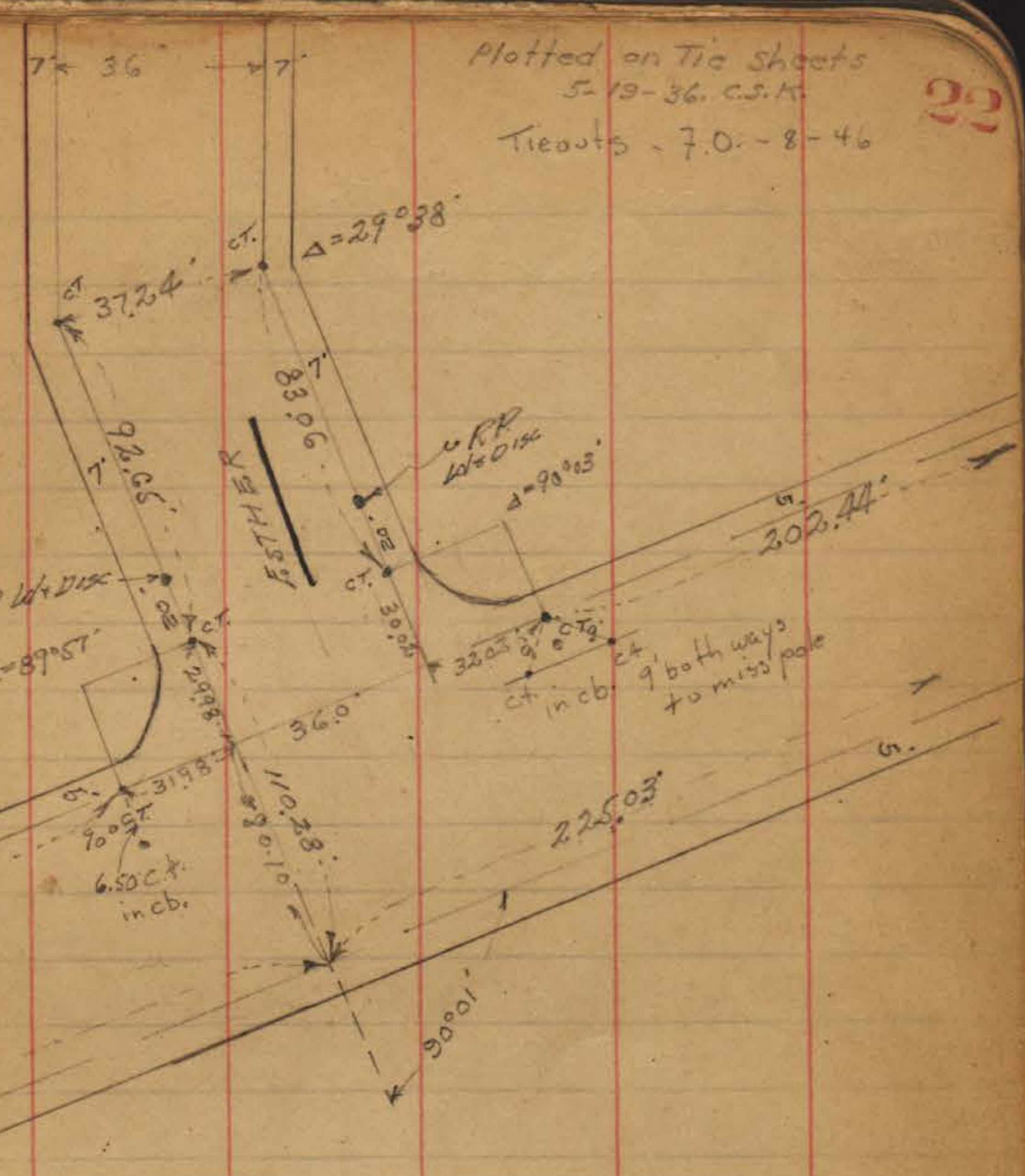
100 32' 30"
 Dr.
 El Cerillo

Ocean View Gardens





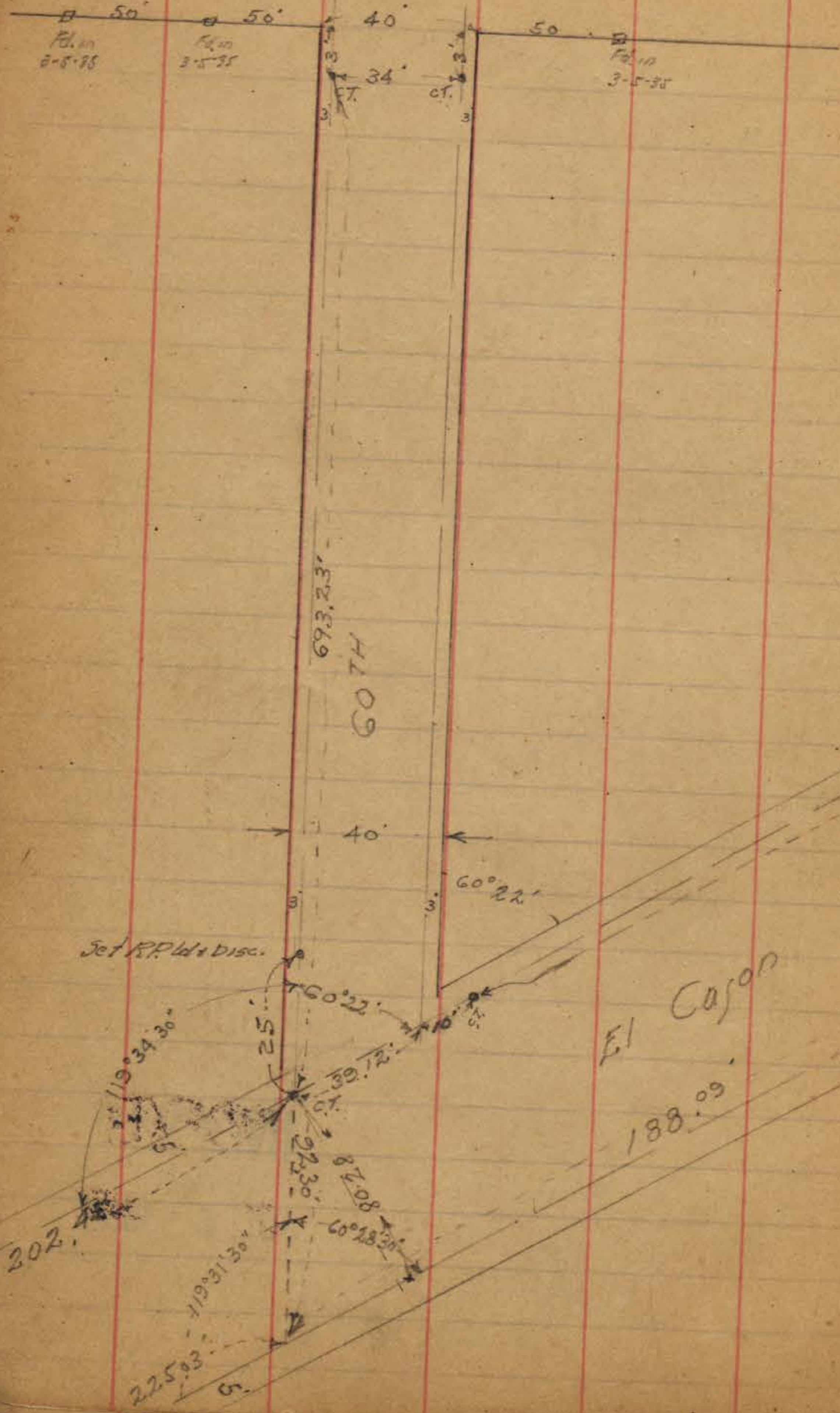
121-9
Tie to Hts.



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WK
JUL 6 1950

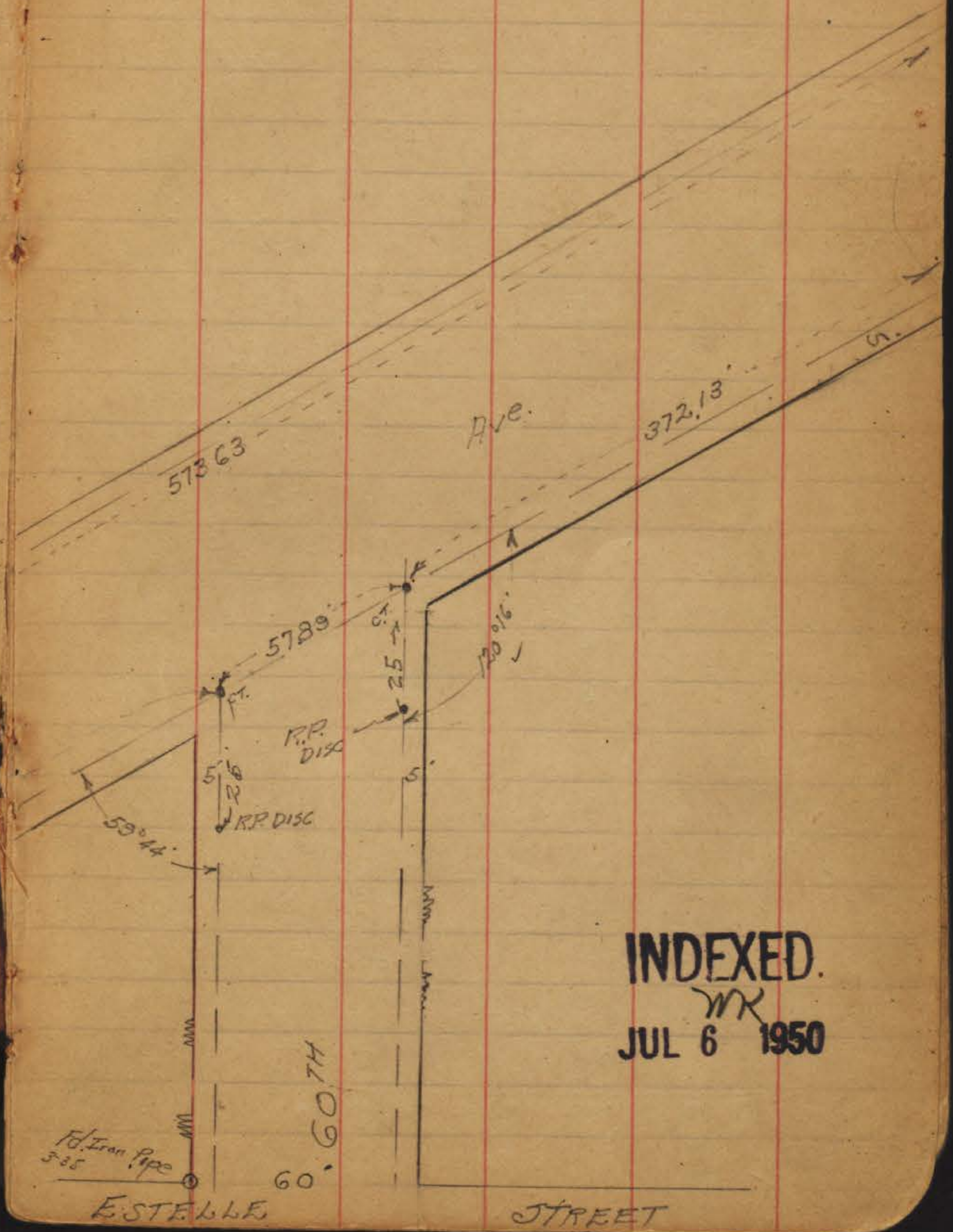
Adams

Ave

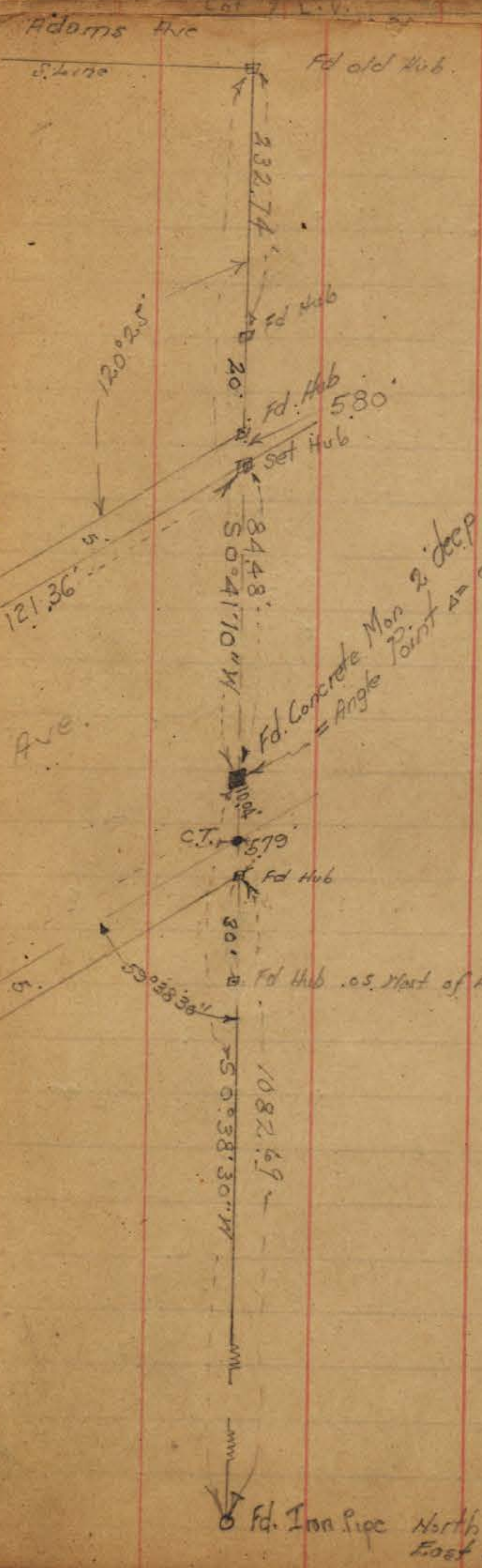
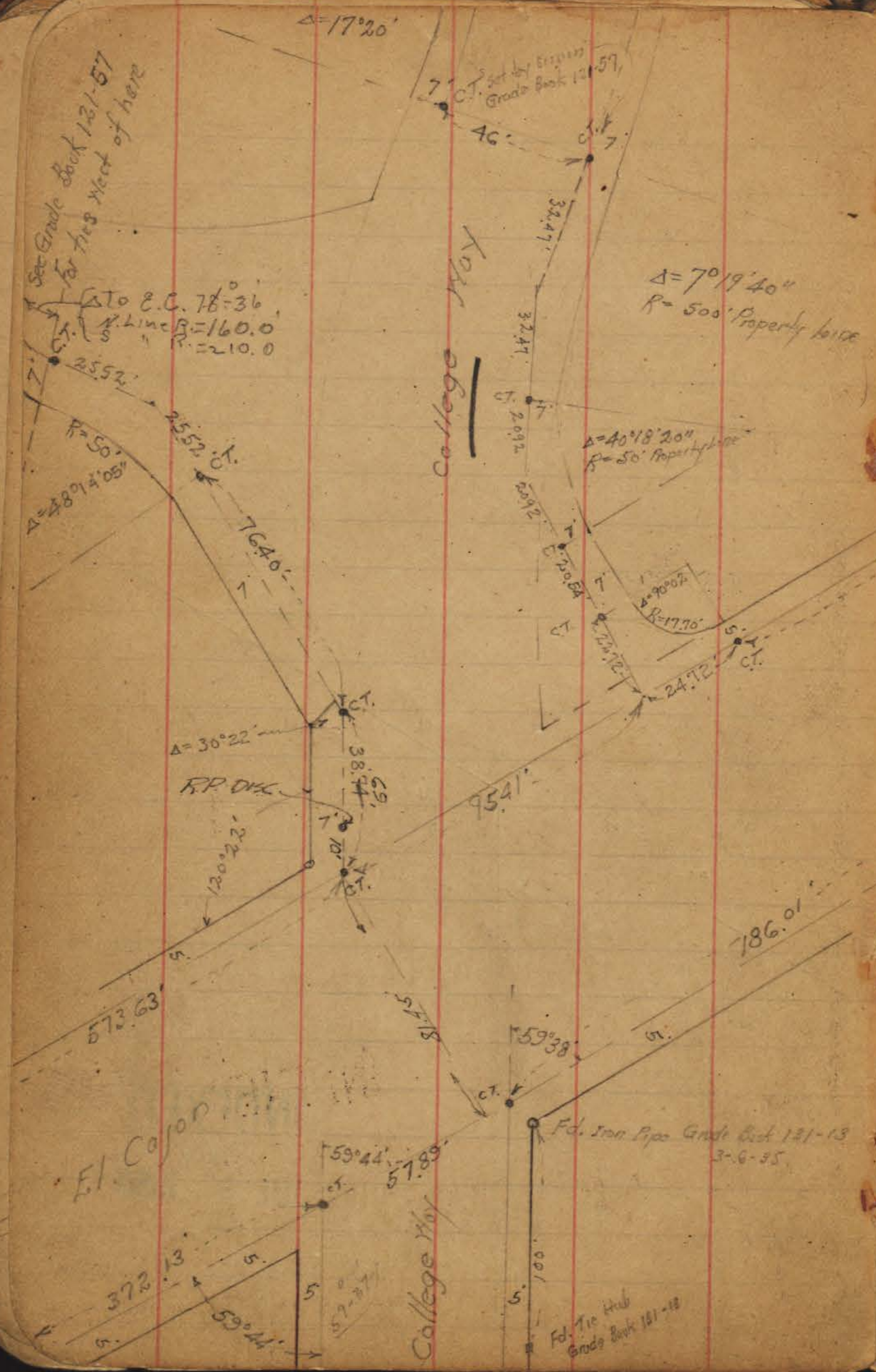


Platted on Tie sheets
C.S.K.

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WK
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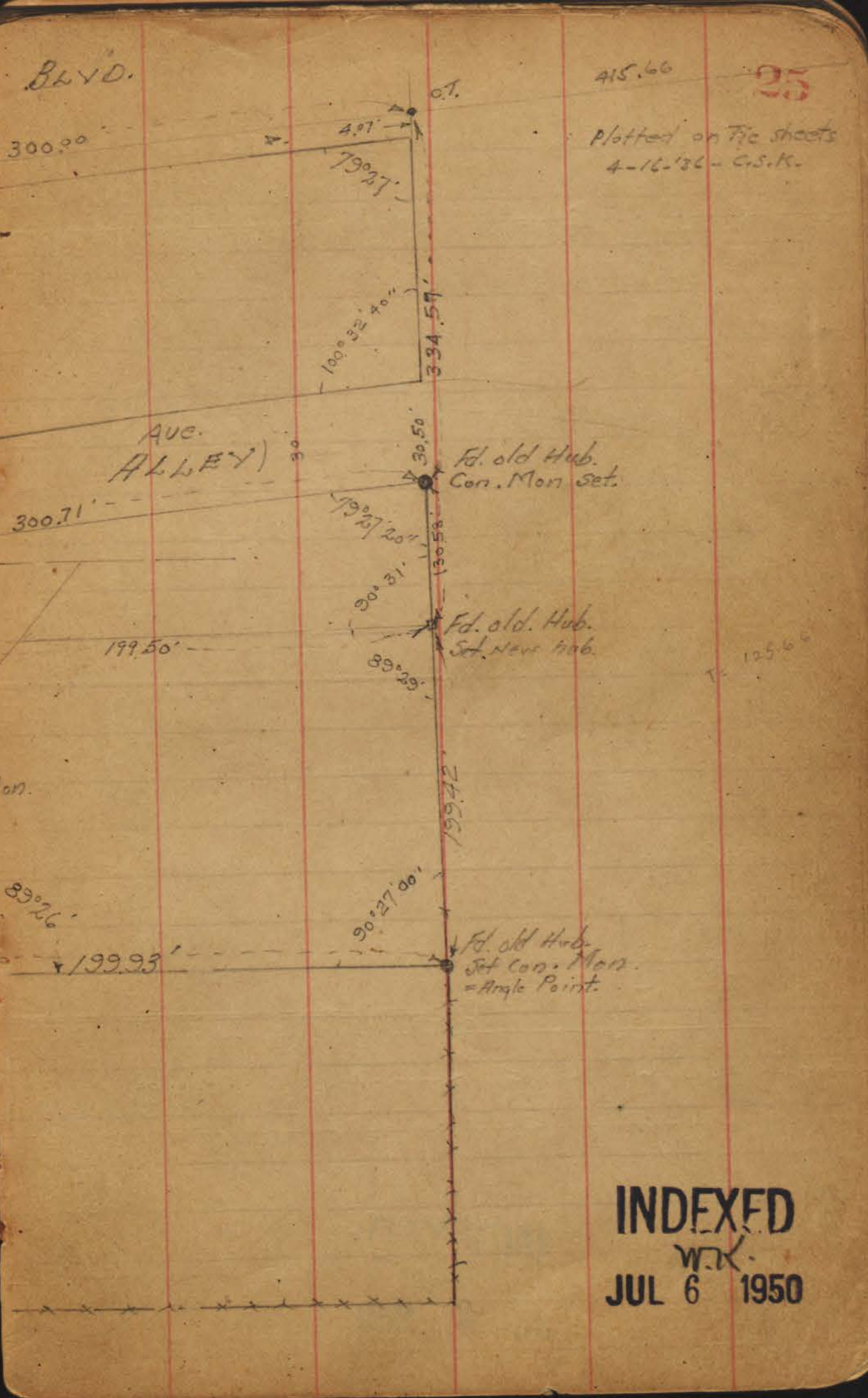
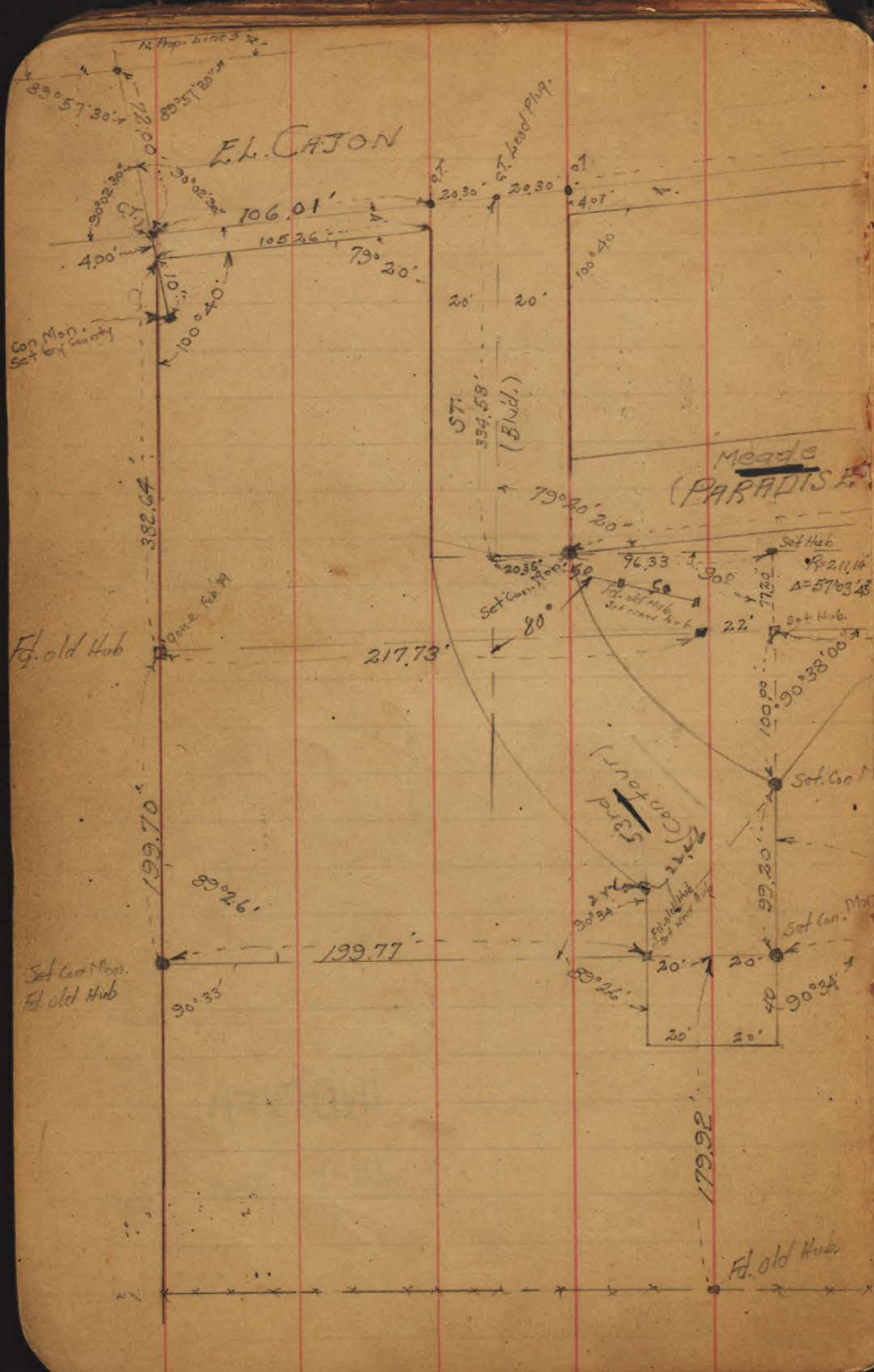


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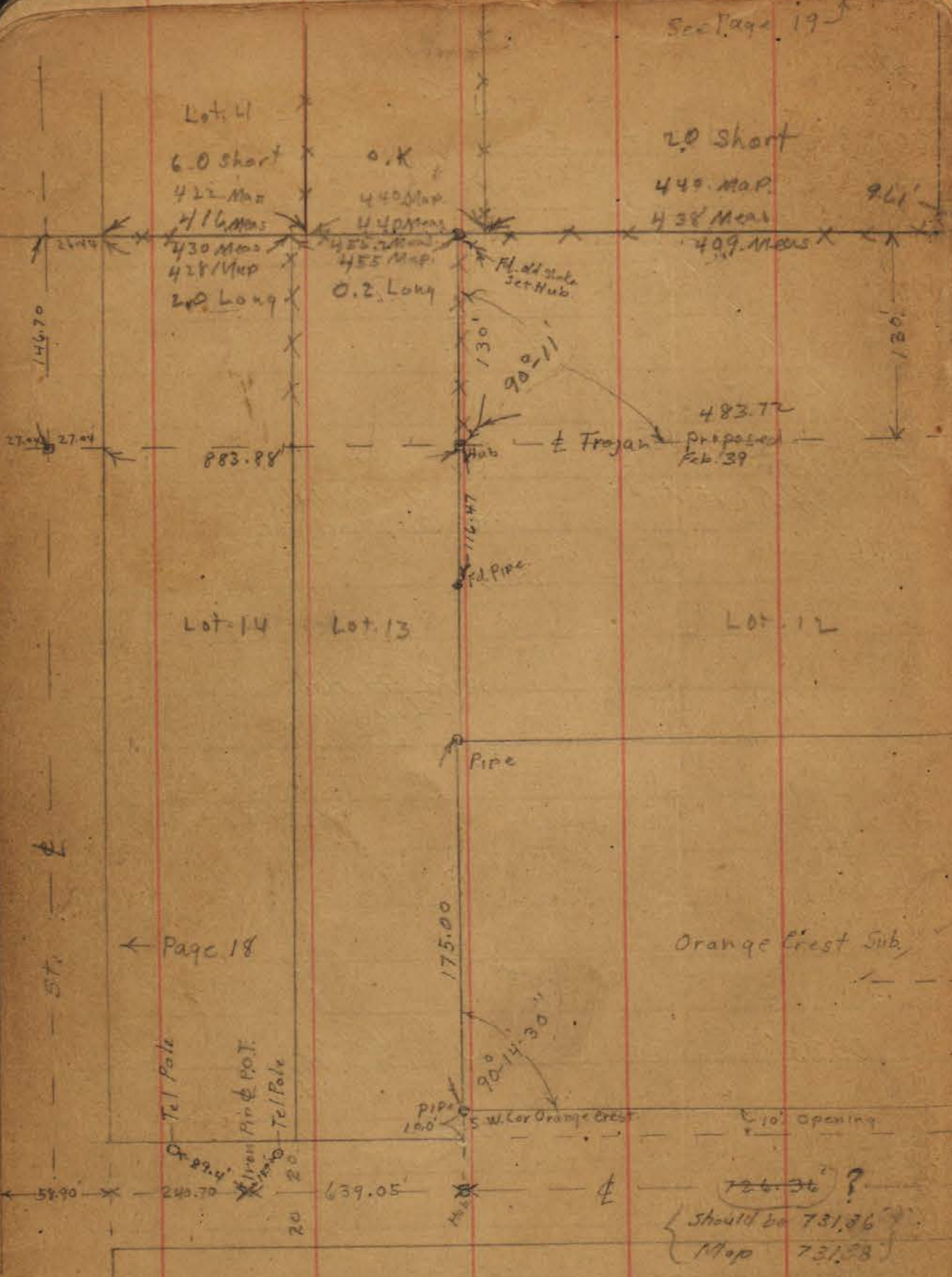
plotted on Tie sheets
 5-15-36, C.S.K.

Fd. Iron Pipe North line ESTABLISHED
 East Line Subdivision



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W.K.
JUL 6 1950

See Page 19



2.0 Short

440 Map

438 Map

409 Map

483.72

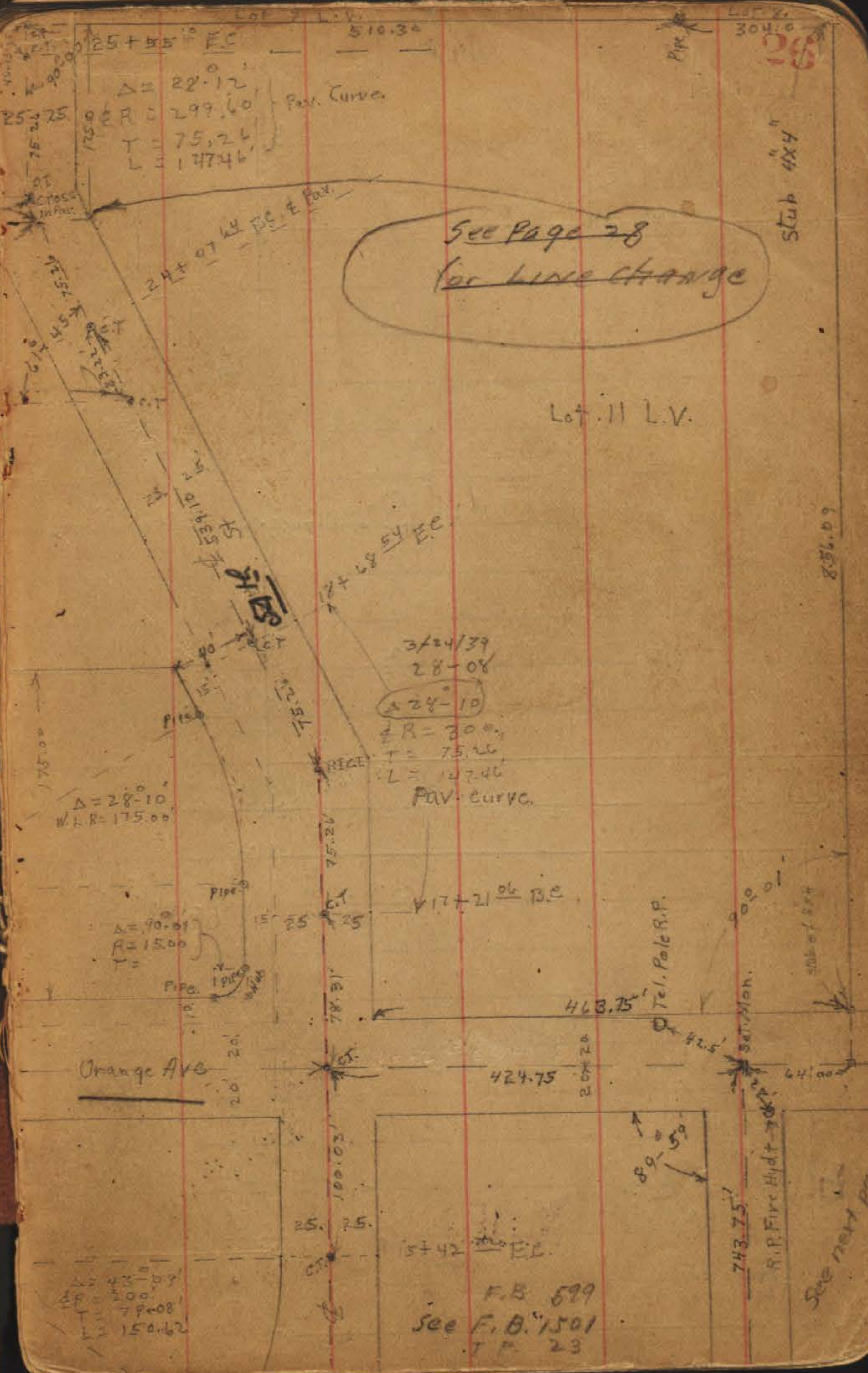
Proposed Feb. 39

Orange Crest Sub.

736.36?
 Should be 731.36
 Map 731.33

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See Page 28
 for Line Change

3/24/39
 28-08
 Delta 28-10
 R = 300
 T = 75.26
 L = 1474.6
 Pav. Curve.

Delta = 28-10
 R = 175.00

Delta = 40-01
 R = 150.00
 T =

F.B. 599
 See F.B. 1501
 T.P. 23

See next page

See Page 20

Lot 9. L.V.

Lot 8. L.V.
School.

Original Hub
Later Replaced by
Pipe at Top R.E. 459.

See Page 19

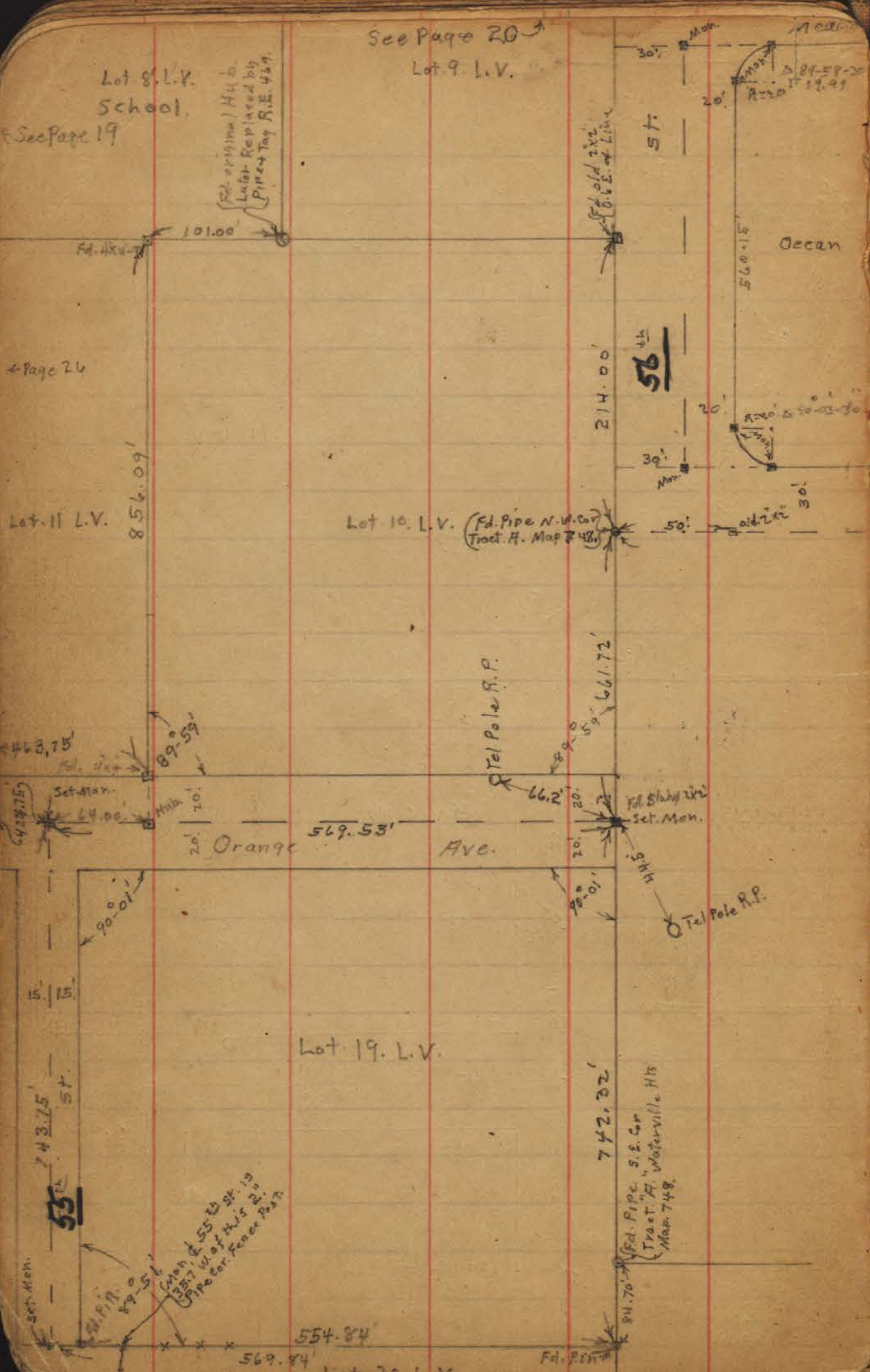
Page 24

Lot 11 L.V.

Lot 10. L.V.

Lot 19. L.V.

Lot 20. L.V.

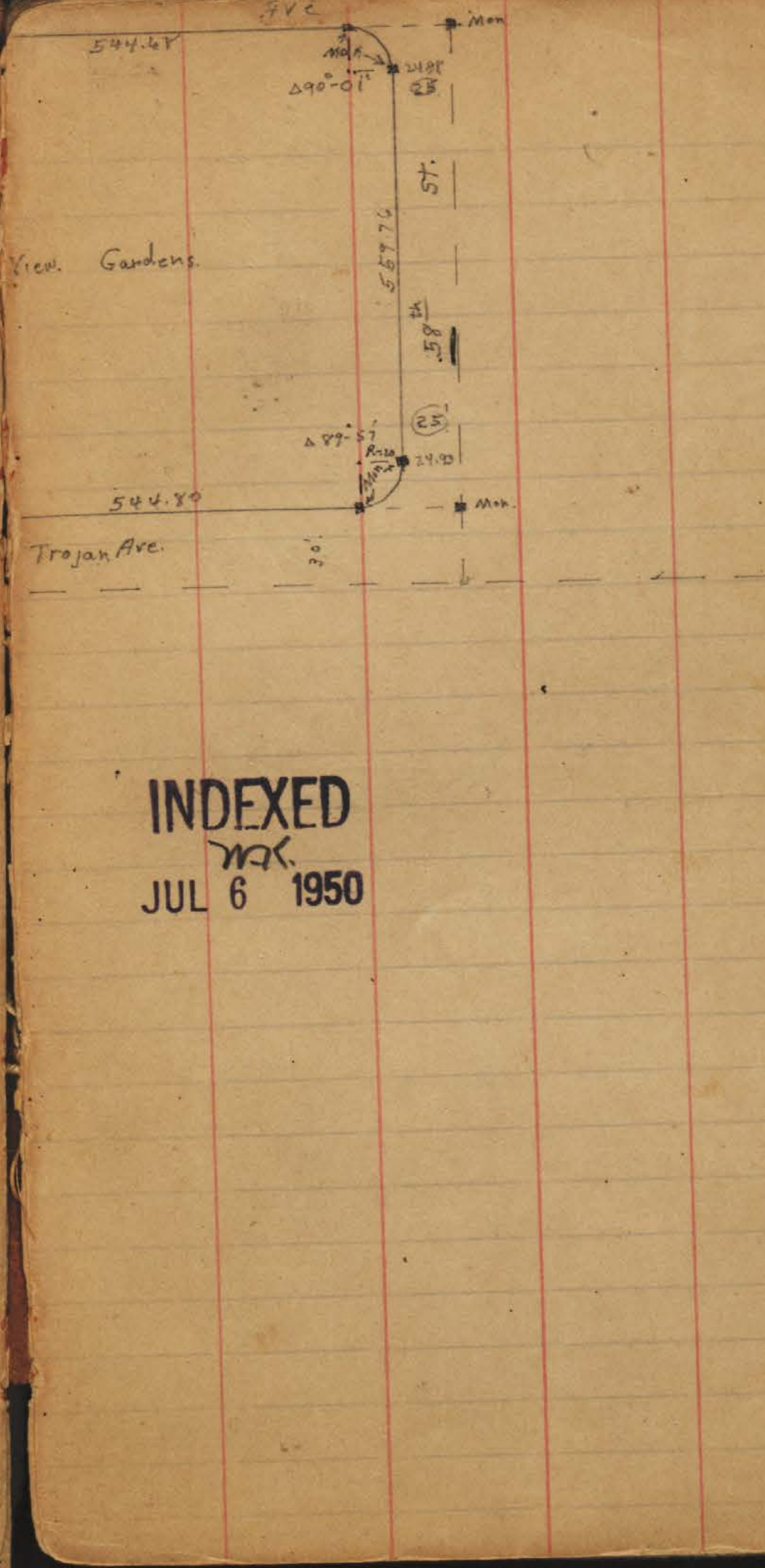


544.67

Ocean View Gardens.

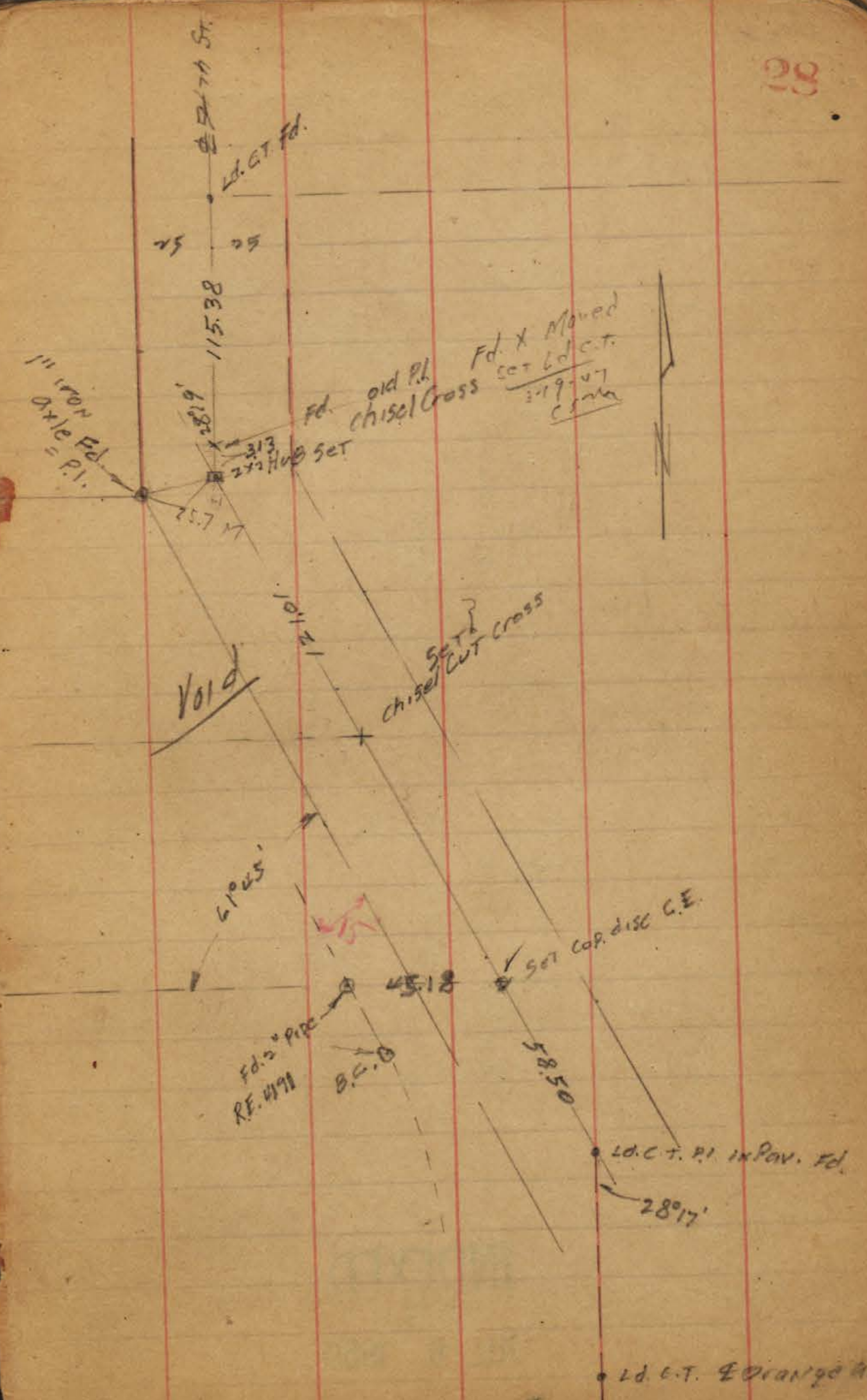
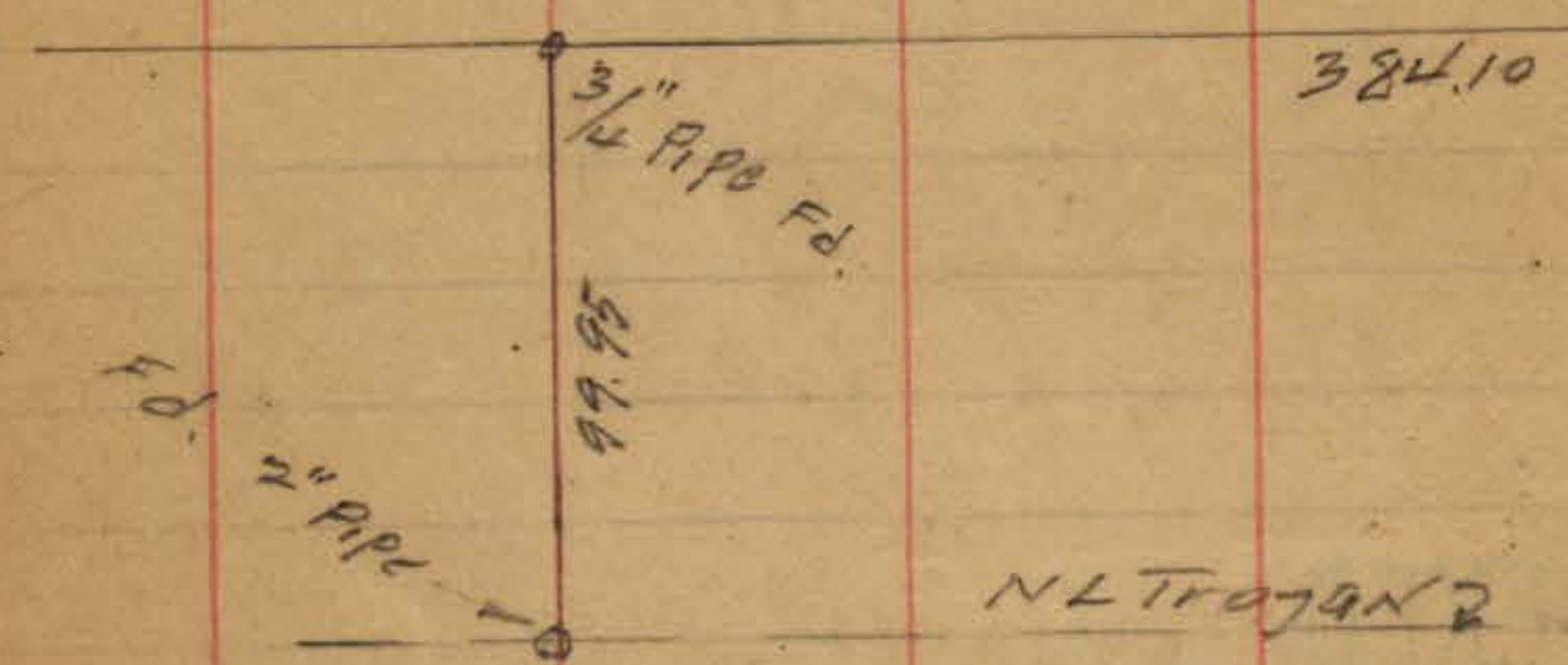
Trojan Ave.

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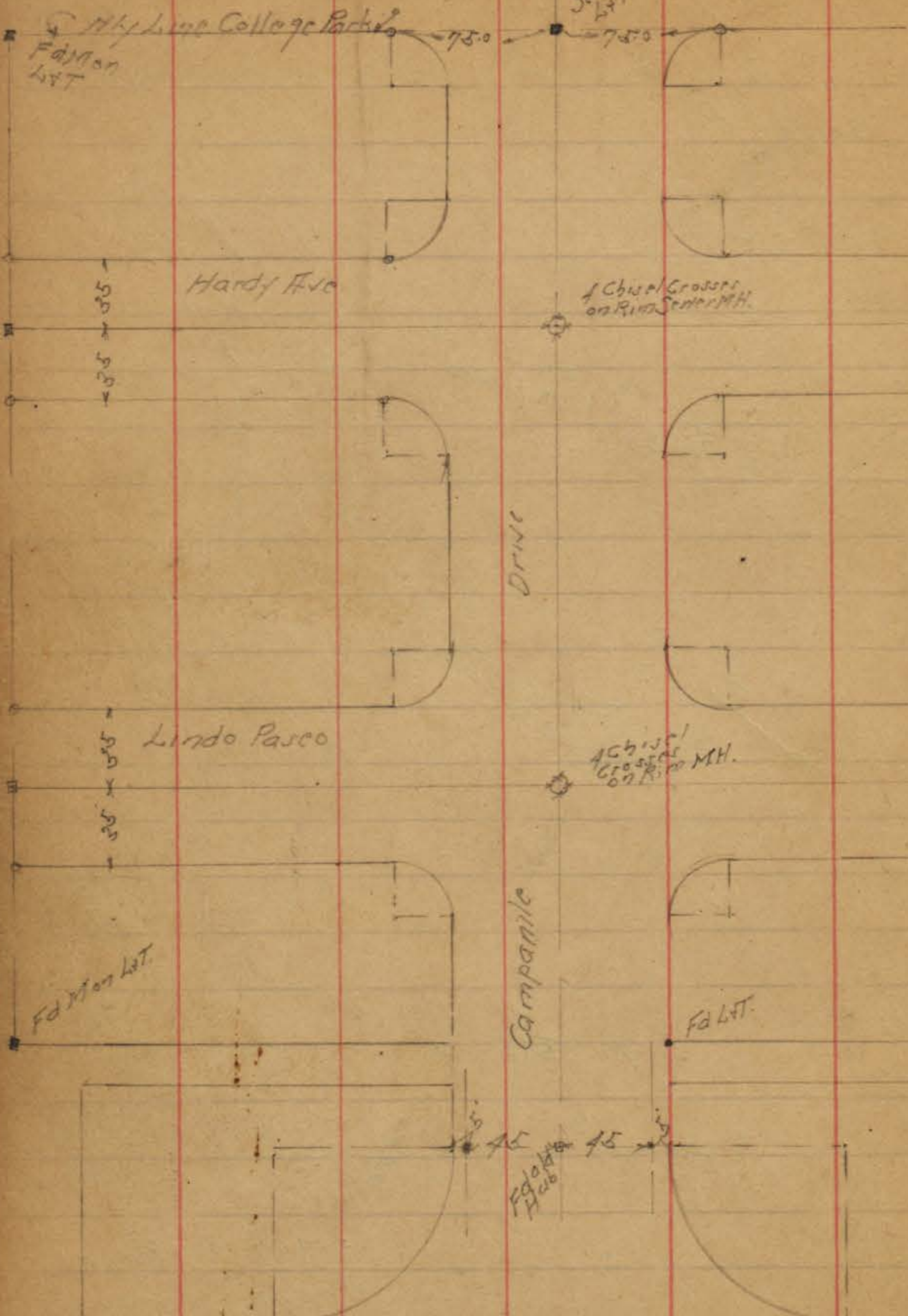


Made
7-8-40

p. 26
Line change from p 28?

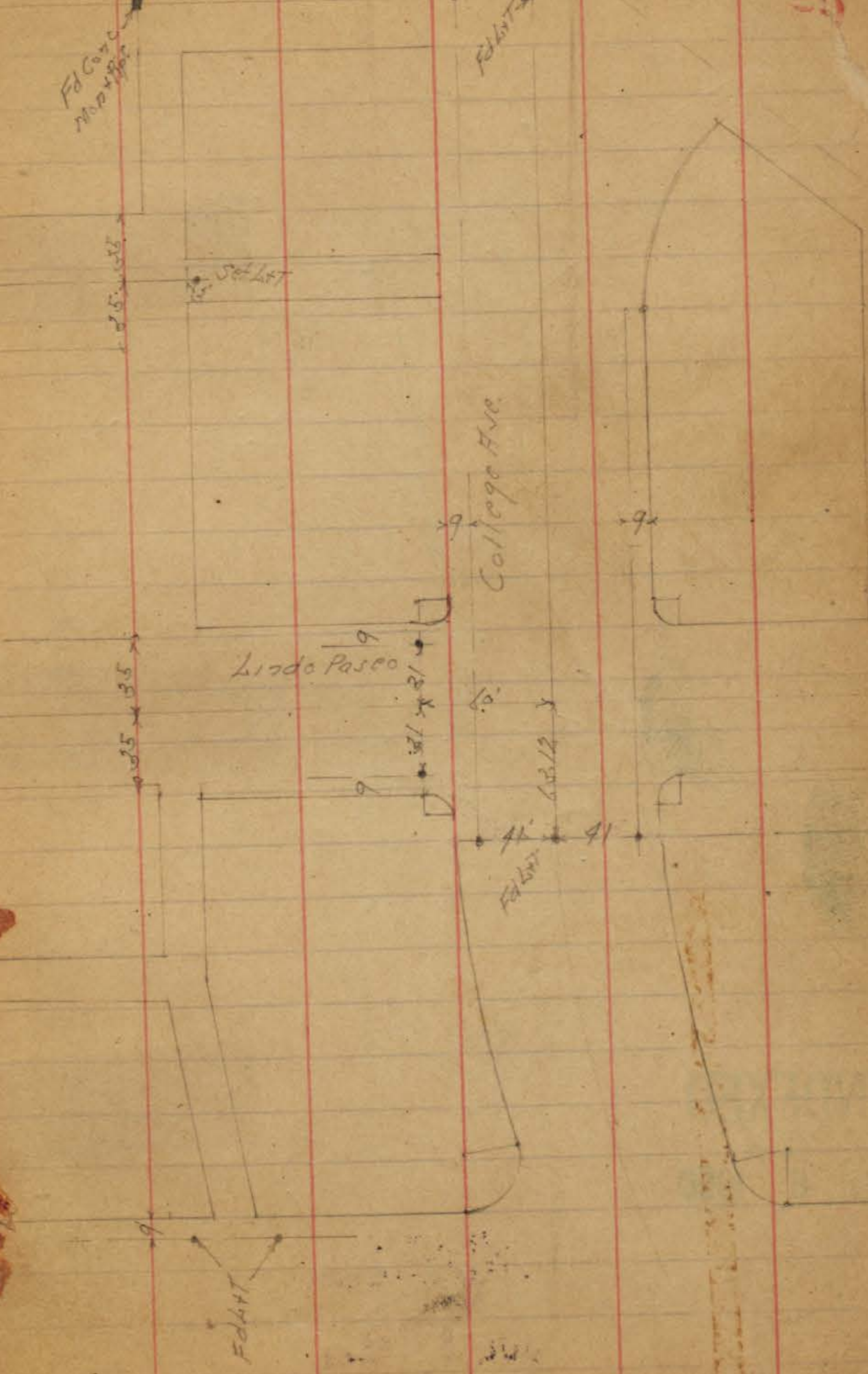


College Park ties



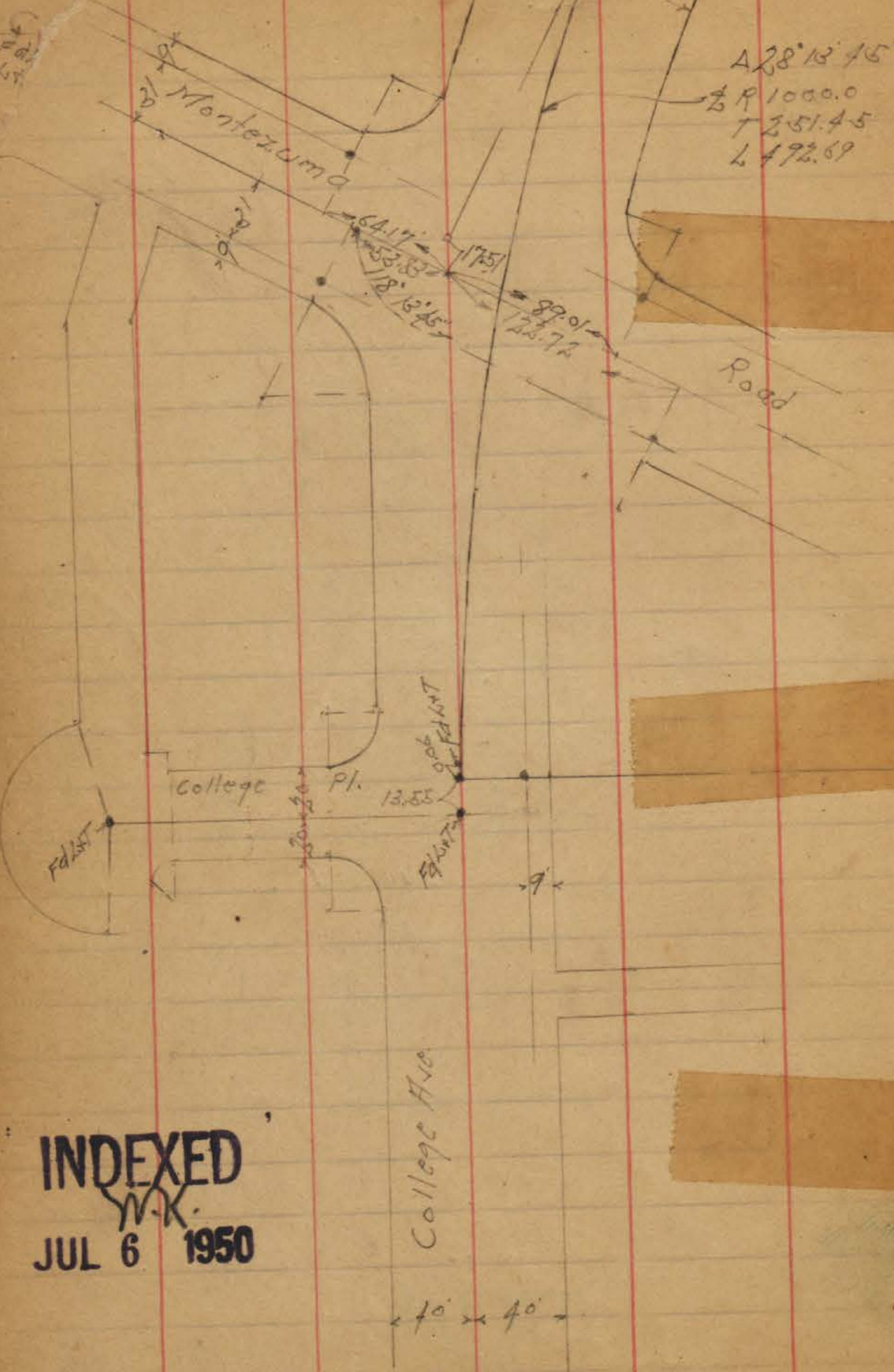
INDEXED
 MK
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Bliss
 8155
 8099
 4th Set
 Hub Set



25

College Pl.



$\Delta 28^{\circ} 13' 15''$
 $\frac{1}{2} R 1000.0$
 $T 251.45$
 $L 492.69$

• Lat Set •

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40' x 40'

College Park Trics

Sept. 5-48
Sussong
Bliss
Begg

• = L+T Found •

31

Cresita Drive

College Ave

Cocas Lane

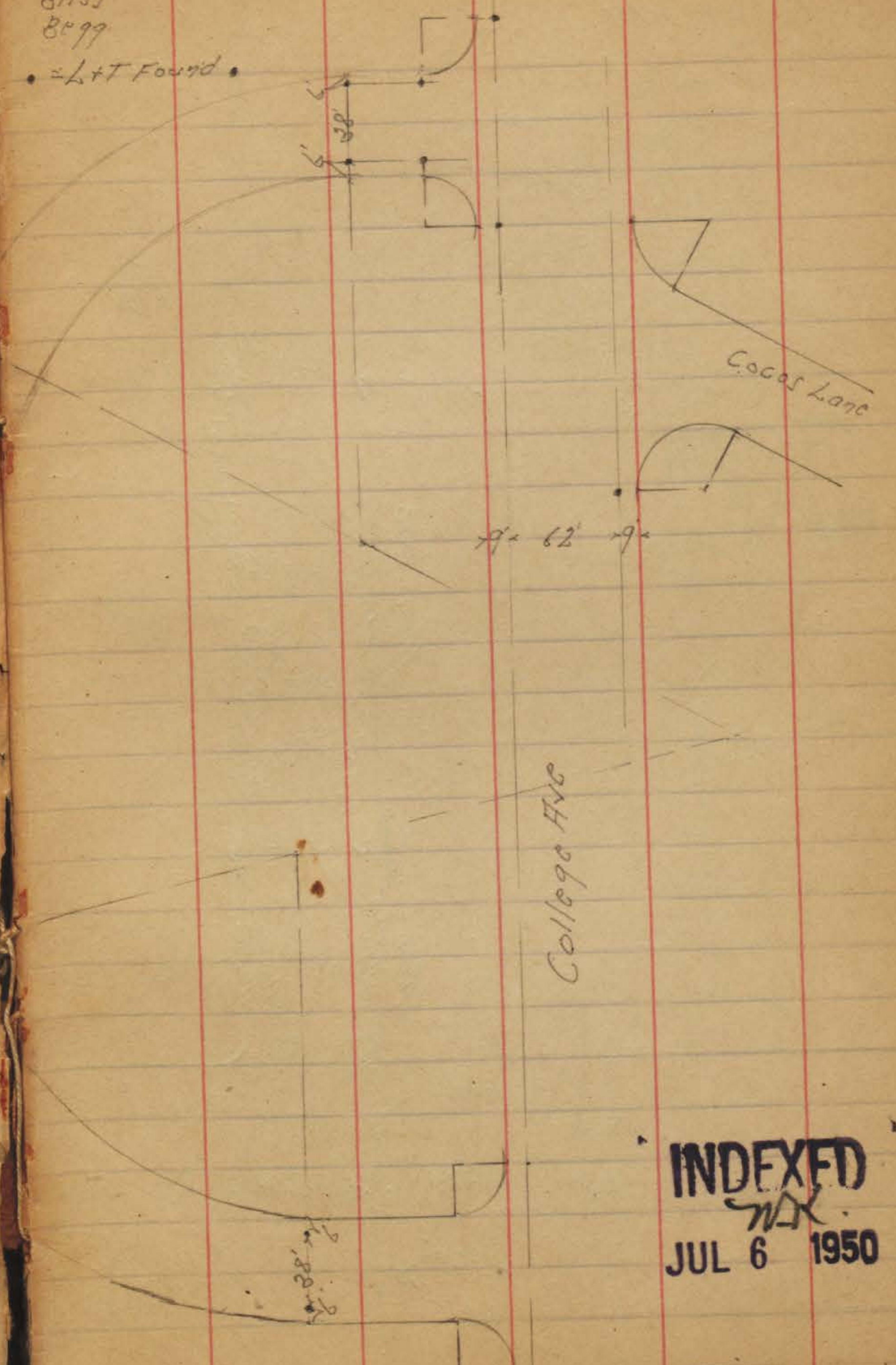
H = 62' 19"

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JUL 6 1950

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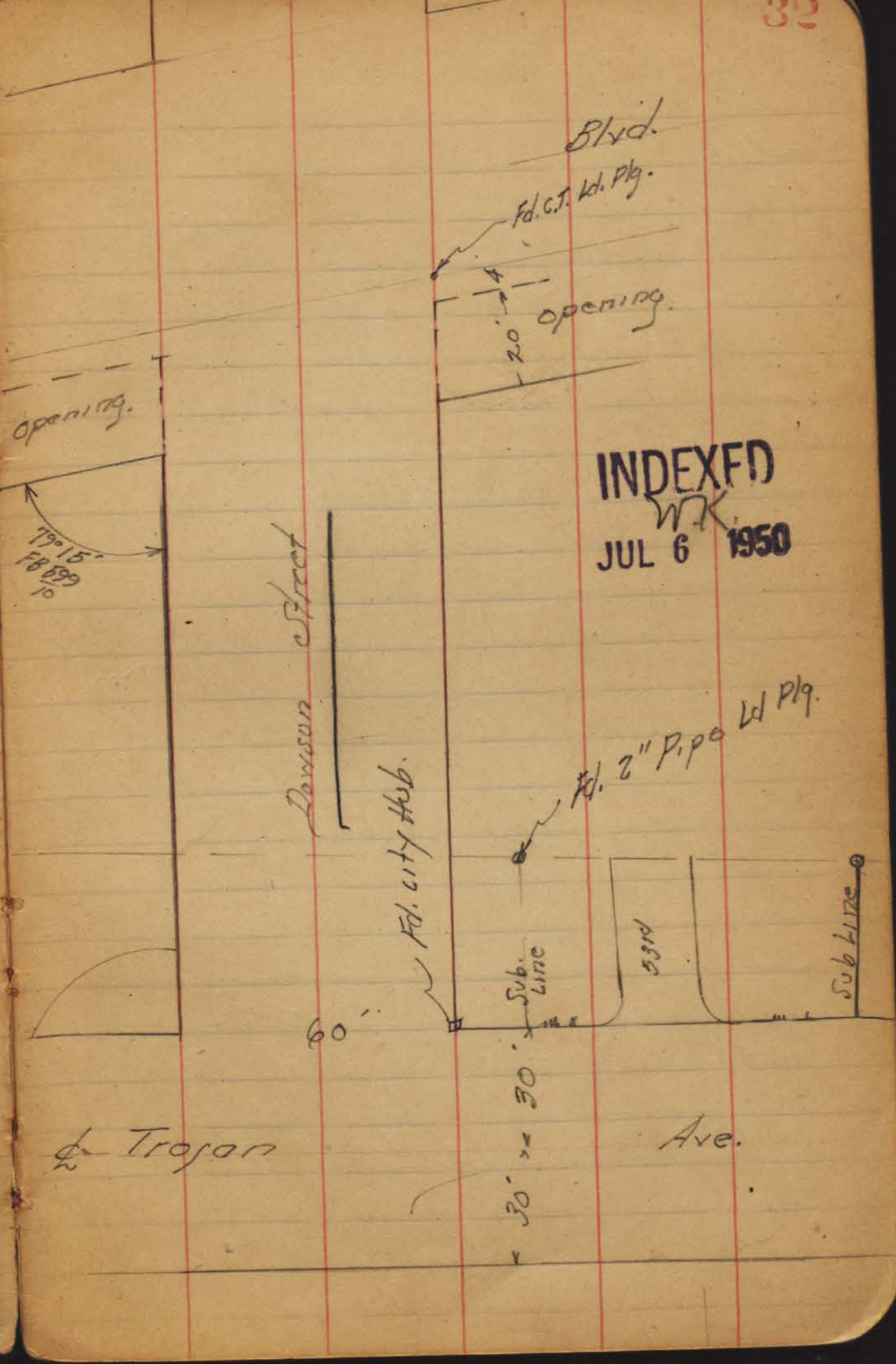
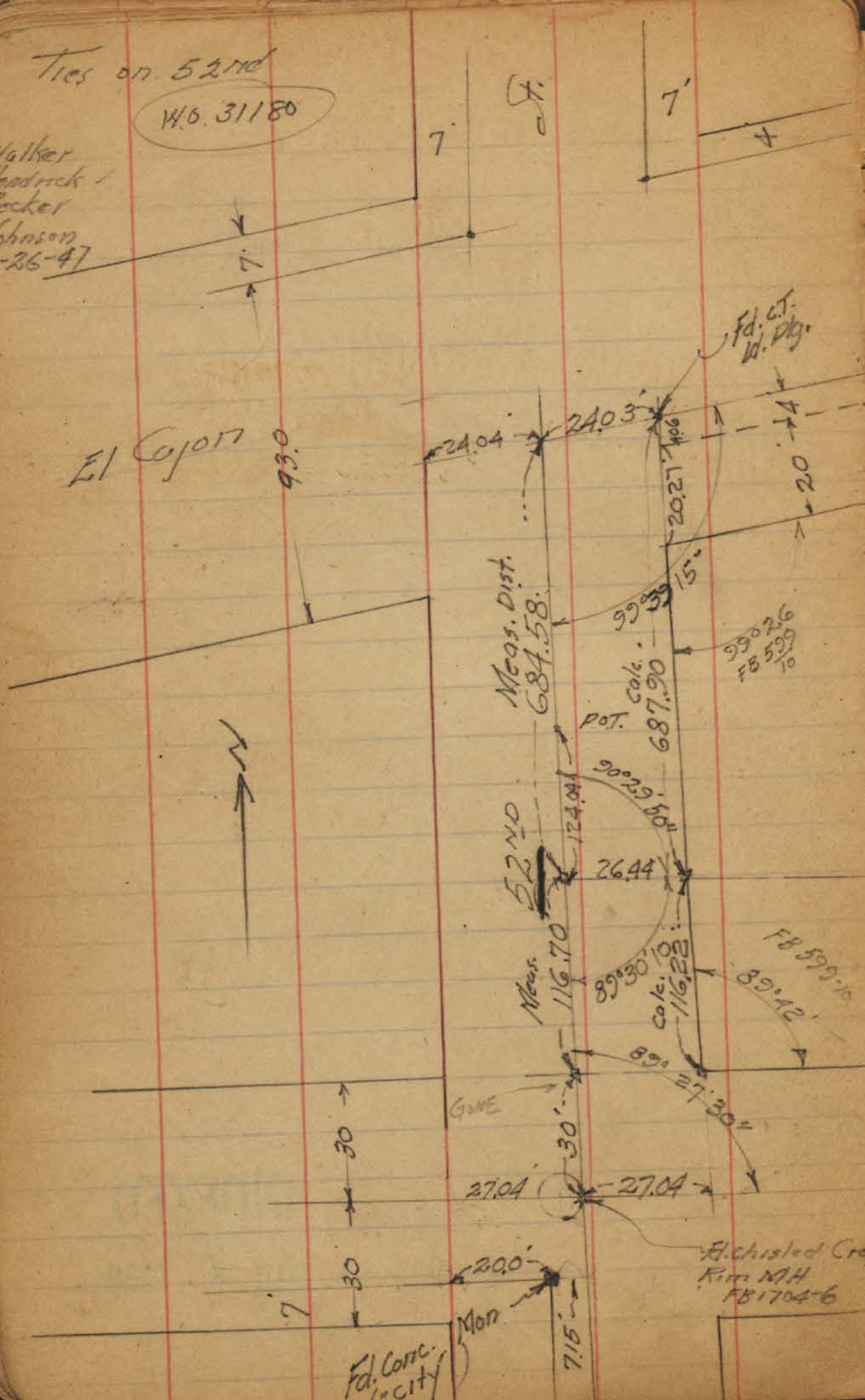
38



Ties on 52nd

W.O. 31180

Walker
Hendrick
Becker
Johnson
9-25-47



INDEXED
W.K.
JUL 6 1950

Bliss
Sommermyer
Bepp
2/2/42

Check Survey. Orange to Polk on 54th

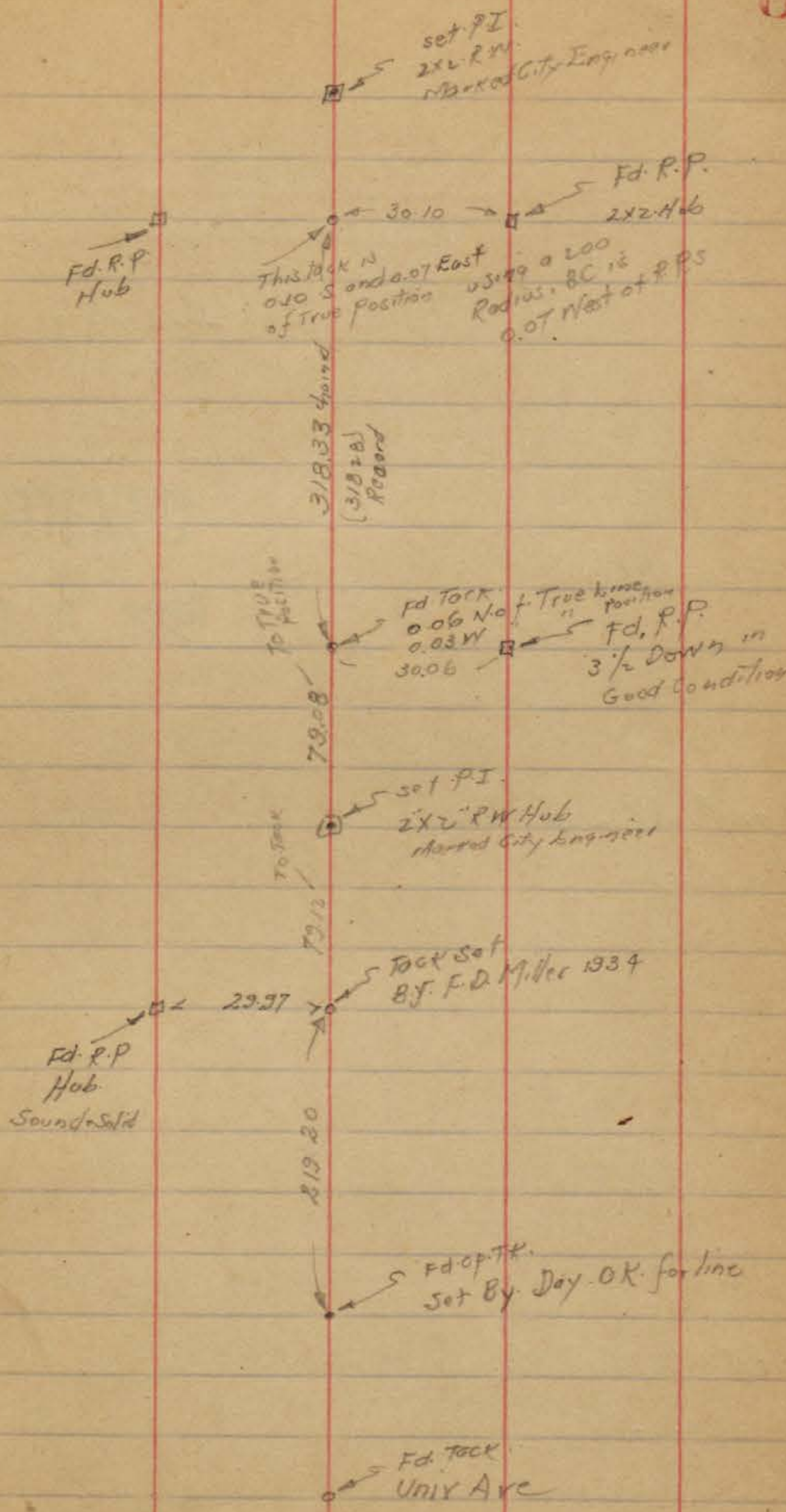
Δ 43° 09' 00"
R. 200
T. 79.08
L. 150.62

13192¹⁰ B.C.Lt Miller's Stationing

10173⁸² EC.

Δ 43° 08' 45"
R. 200
T. 79.08
L. 150.62

9423.20 B.C. Pt. (Sec. F.D. Miller's)
Survey F.O. 1501-P12



$\Delta 28^{\circ}10'00$
R. 300 Millers
T. 75.26 Data
L.C. 19748

17+21.06 B.C. Lt

16+42²⁵ E. Orange (Miller)

15+42.72 E.C. Miller's Stationing

INDEXED
W.K.
JUL 6 1950

Orange Ave

Street

Fd. CPTK. P.I.
at 300' Radius curve
To left

Note these
Three locks
line up

Fd. CPTK.

78.33
(7831)
Record

Fd. CPTK
& Orange

To Mon

54th

100.19
100.03
Record

59.91

Fd. R.P.
Hub

29.88
This lock is 0.02 N
1.006 East of true position

Fd. R.P.
Hub

Note altho
these two Hubs
are sound & solid
they are a 0.05 short
between them.

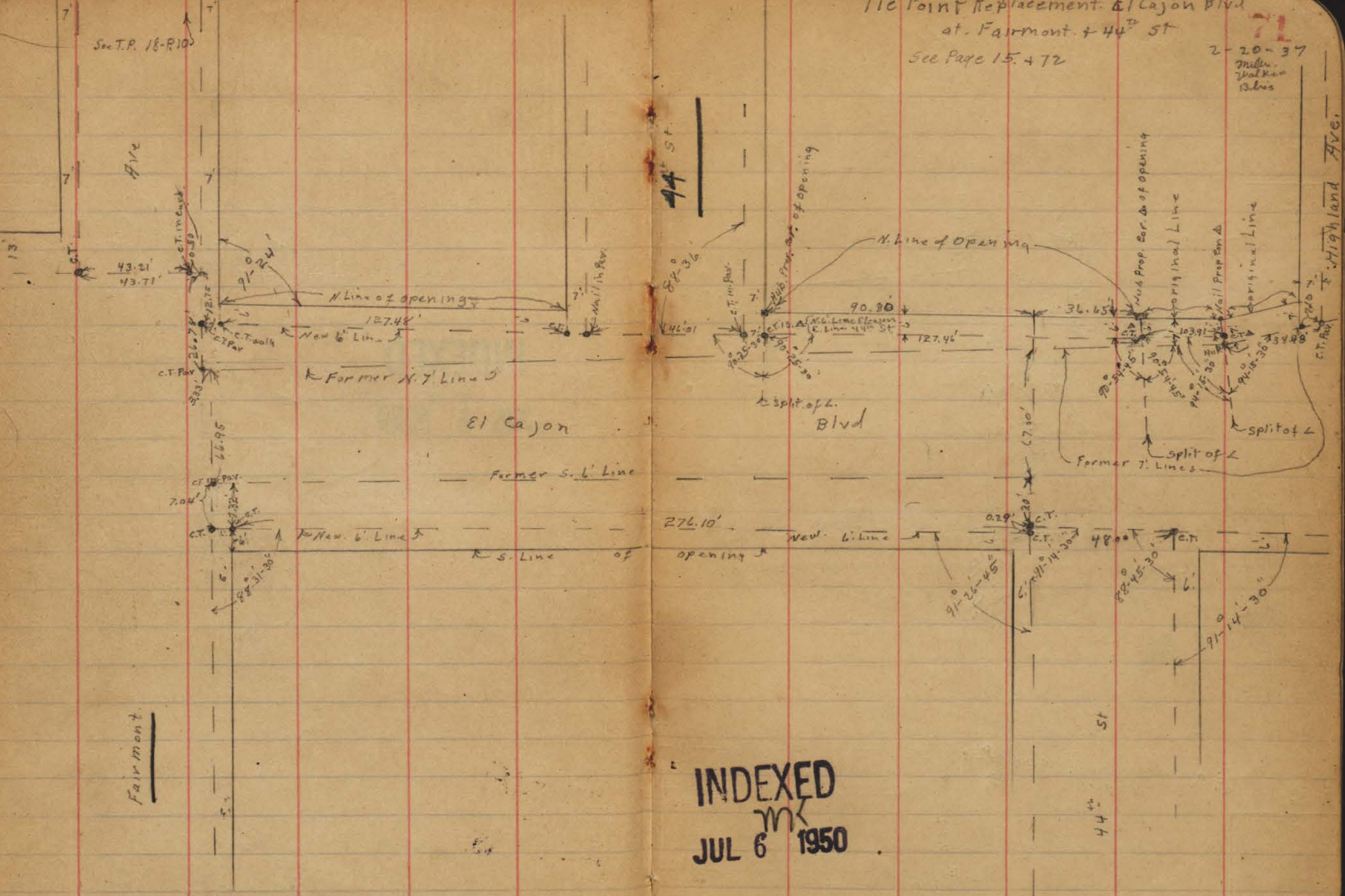
E.D. Miller made no note
of this See Survey FB
Vol 2. 12

Tie Point Replacement. El Cajon Blvd
at Fairmont + 44th St

See Page 15 + 72

2-20-37

Miller
Walker
Bliss

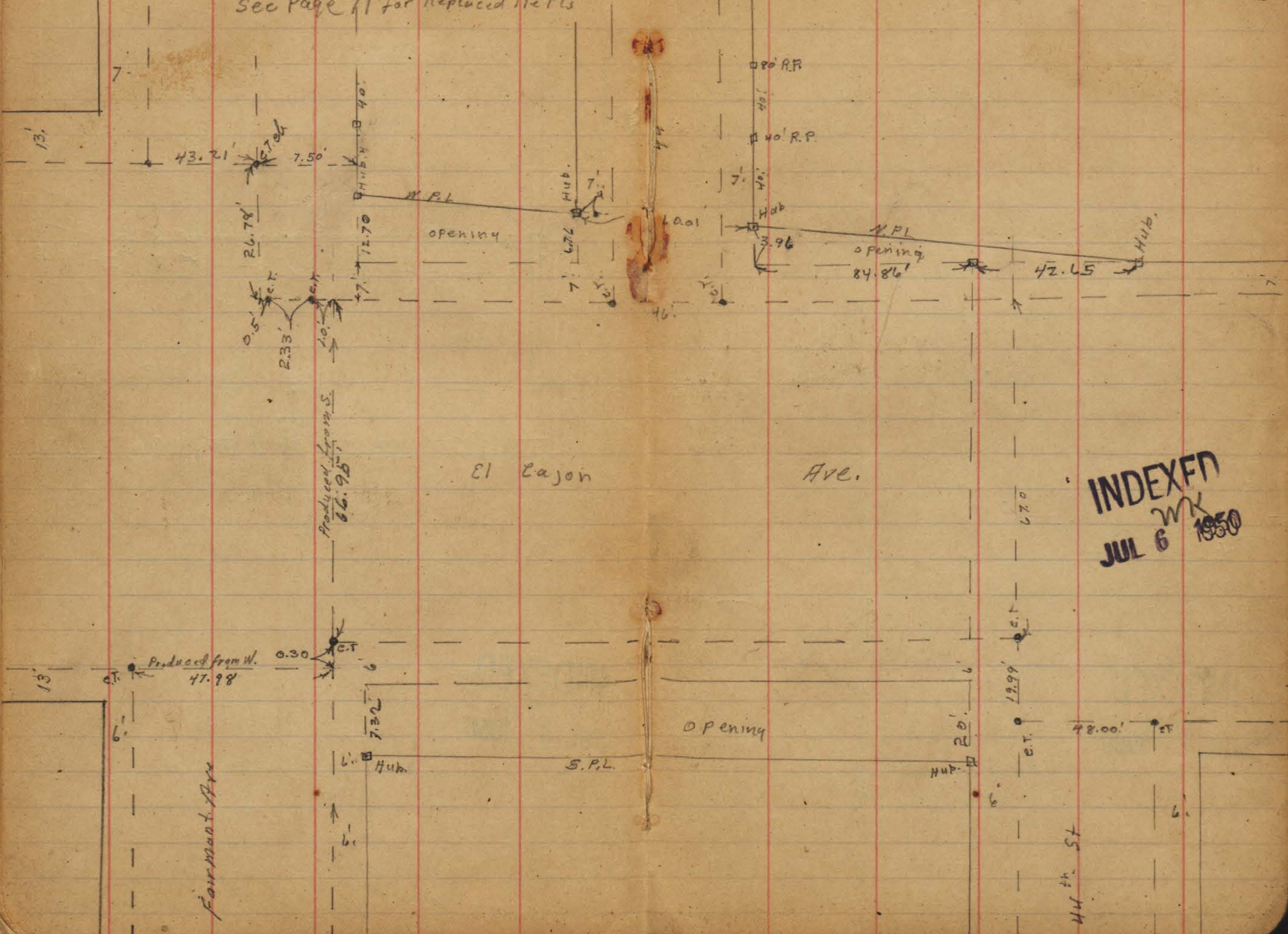


INDEXED
m
JUL 6 1950

El Cajon Tie Outs for Opening
 Fairmont to 44th
 See Page 71 for Replaced Tie Pts

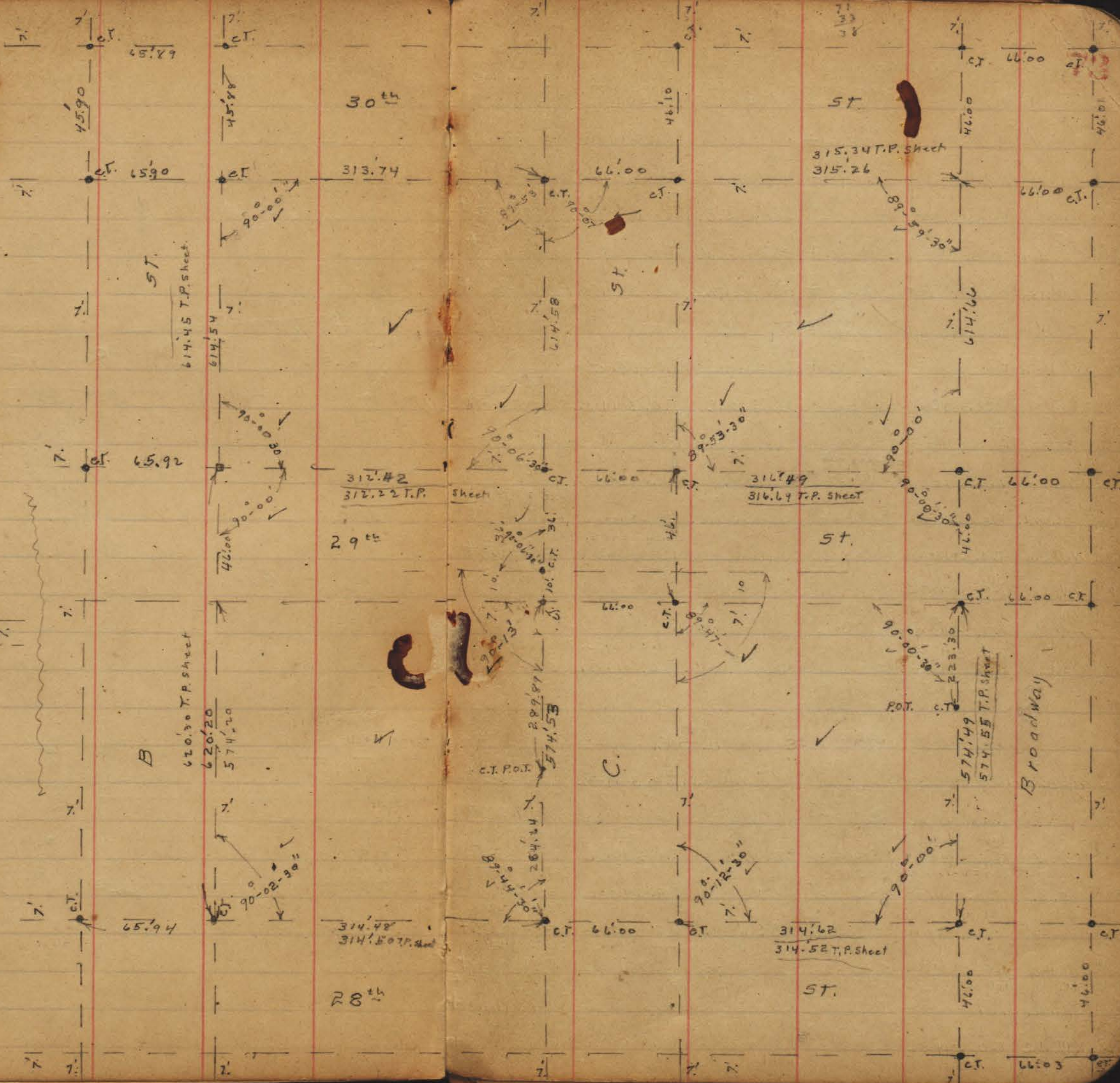
Platted on Tie sheet
 6-8-36. C.S.K.

72



INDEXED
 JUL 6 1950
 MK

Tie Pts at
29th & C.



INDEXED
JUL 6 1950

Posted on
Tie sheets

Tie At. Cover Replacement

Miles
Bless
Walker

K. ST		
7 th S.W. Mon	T.O. 3-12-32	Cover set 3-17-32 +
8 th S.W. Mon		Cover set 3-17-32 +
10 th S.W. Mon	T.O. 3-12-32	Cover set 3-17-32 +
15 th N.W. SPK.	66.00E. 45.95S.	7' C.T. L.P. 5-9-32 +
17 th S.W. Mon	T.O. 3-12-32	Cover set 3-17-32 +
20 th SW Mon	T.O. 3-12-32	Cover set 3-17-32 +
21 th S.W. Mon	T.O. 3-12-32	Cover set 3-17-32 +
19 th S.W. Mon		7' C.T. L.P. 5-9-32 +
24 th N.W.	T.O. 3-12-32	7' C.T. L.P. 5-10-32 +
24 th N.E.	T.O. 3-12-32	7' C.T. L.P. 5-10-32 +
22 nd S.E. & N.E.	T.O. 3-12-32	7' C.T. L.P. 5-10-32 +
20 th N.E. & S.W.	T.O. 3-12-32	7' C.T. L.P. 5-10-32 +
18 th N.W. & S.W.	T.O. 3-12-32	7' C.T. L.P. 5-10-32 +
17 th N.W. & S.W.	T.O. 3-14-32	7' C.T. L.P. 5-10-32 +
10 th S.E.	66.00 N. 46.00 W.	Cover OK 5-9-32 +
9 th N.E. & N.W.	66.00 & 41.00	7' C.T. L.P. 5-9-32 +
Imperial Ave		
16 th S.E.	T.O. 3-14-32	7' C.T. L.P. 5-10-32 +
18 th N.W.	T.O. 3-14-32	7' C.T. L.P. 5-10-32 +
19 th S.W.	65.95 N 46.00 E	7' C.T. L.P. 5-10-32 +
24 th N.E.	T.O. 3-14-32	7' C.T. L.P. 5-10-32 +
10 th S.E. & N.E.	T.O. 3-14-32	7' C.T. L.P. 5-10-32 +
17 th S.W.	T.O. 3-14-32	7' C.T. L.P. 5-10-32 +
Commercial		
16 th N.W. & N.E.	T.O. 3-14-32	7' C.T. L.P. 5-10-32 +

Logan Ave		
30 th S.W. & S.E.	T.O. 3-14-32	7' C.T. L.P. 5-10-32 +
28 th S.W. & N.W.	T.O. 3-14-32	7' C.T. L.P. 5-10-32 +
Sigsby N.W.	T.O. 3-14-32	7' C.T. L.P. 5-10-32 +
Dewey S.E.	66.00 N. 45.95 W.	7' C.T. L.P. 5-10-32 +
Evans S.W.	T.O. 3-14-32	7' C.T. L.P. 5-10-32 +
Sampson N.E.	T.O. 3-14-32	7' C.T. L.P. 5-10-32 +
National Ave		
30 th N.E.	T.O. 3-14-32	7' C.T. L.P. 5-10-32 +
Dewey		7' C.T. L.P. 5-11-32 +
Kearney S.E.	T.O. 3-14-32	7' C.T. L.P. 5-11-32 +
Sampson		
Kearney S.E.	T.O. 3-14-32	7' C.T. L.P. 5-11-32 +
Julian N.E.	45.95 W. 65.98 S.	7' C.T. L.P. 5-11-32 +
Evans		
Irving N.W.	45.95 E. 65.95 S.	7' C.T. L.P. 5-11-32 +
J. ST.		
19 th N.W. & S.W.	T.O. 3-14-32	7' C.T. L.P. 5-9-32 +
18 th N.W. & S.E.	T.O. 3-16-32	7' C.T. L.P. 5-9-32 +
17 th N.E.	T.O. 3-16-32	7' C.T. L.P. 5-9-32 +
16 th N.E. & S.W.	T.O. 3-16-32	7' C.T. L.P. 5-9-32 +
13 th S.W.	T.O. 3-16-32	7' C.T. L.P. 5-9-32 +
11 th S.W. & N.E.	T.O. 3-16-32	7' C.T. L.P. 5-9-32 +
9 th N.E. & S.E.	T.O. 3-16-32	7' C.T. L.P. 5-9-32 +
8 th N.E.	T.O. 3-16-32	7' C.T. L.P. 5-9-32 +

Posted July 1932

J. ST		
7 th S.W. Mon	5-9-32	Cover set 3-17-32 +
3 rd N.W.	T.O. 3-16-32	7' Rep. C.T. L.P. 5-9-32 +
2 nd N.W. & S.W.	T.O. 3-16-32	Mont Cover 5-9-32 +
Island Ave		
2 nd S.W. Mon	T.O. 3-16-32	Cover set 3-17-32 +
3 rd S.E.	T.O. 3-16-32	in Iron frame 5-9-32 +
9 th S.W. Mon	T.O. 3-16-32	Cover set 3-17-32 +
10 th S.E.	T.O. 3-16-32	7' C.T. 5-11-32 +
11 th S.W.	T.O. 3-16-32	7' C.T. 5-11-32 +
13 th N.E.	T.O. 3-16-32	7' C.T. 5-11-32 +
14 th N.W.	T.O. 3-16-32	7' C.T. 5-11-32 +
15 th S.E.	T.O. 3-16-32	7' C.T. 5-11-32 +
17 th N.W. & N.E.	T.O. 3-16-32	7' C.T. 5-11-32 +
19 th N.E.	T.O. 3-16-32	7' C.T. 5-11-32 +
20 th N.W.	65.975 S. 45.98 E.	7' C.T. 5-11-32 +
20 th S.E.	65.95 N. 66.00 W.	7' C.T. 5-11-32 +
Market St		
25 th S.E.		X in Cover Rim 7' C.T. 5-12-32 +
19 th N.E.	T.O. 3-16-32	7' C.T. 5-12-32 +
17 th W.E.	T.O. 3-16-32	7' C.T. 5-12-32 +
7 th S.E.	T.O. 3-16-32	7' C.T. 5-12-32 +

Posted 11/32

G ST		
Front S.E.	T.O. 3-16-32	Cover OK 7' C.T. 5-13-32 +
13 th N.E.	T.O. 3-16-32	7' C.T. 5-13-32 +
14 th S.W. & S.E.	T.O. 3-16-32	7' C.T. 5-13-32 +
15 th S.E. & N.E.	T.O. 3-16-32	7' C.T. 5-13-32 +
16 th S.W. Mon	Cover placed 3-17-32	7' C.T. 5-13-32 +
17 th S.W. & N.E.	T.O. 3-16-32	7' C.T. 5-13-32 +
18 th S.W. Mon	Cover placed 3-17-32	7' C.T. 5-13-32 +
22 th S.W. Mon	Cover set 3-17-32	7' C.T. 5-13-32 +
23 rd N.E.	T.O. 3-17-32	7' C.T. 5-13-32 +
Columbia S.W. Mon	Cover set 3-16-32	7' C.T. 5-13-32 +
F. ST		
23 rd S.E.	T.O. 3-17-32	7' C.T. 5-13-32 +
21 st N.W.	T.O. 3-17-32	7' C.T. 5-13-32 +
20 th N.E. & S.E.	T.O. 3-17-32	7' C.T. 5-13-32 +
19 th N.E. & S.E.	T.O. 3-17-32	7' C.T. 5-13-32 +
18 th S.E. & S.W.	T.O. 3-17-32	7' C.T. 5-13-32 +
17 th S.E. & N.E.	T.O. 3-17-32	7' C.T. 5-13-32 +
16 th N.E.	T.O. 3-17-32	7' C.T. 5-13-32 +
14 th N.E. & S.W.	T.O. 3-17-32	7' C.T. 5-13-32 +
13 th N.E.	T.O. 3-17-32	7' C.T. 5-13-32 +
State S.W. Mon	Cover OK 3-17-32	7' C.T. 5-13-32 +

Tie Pt. Cover Replacement.

+ E. St.		Replacement	+ B. St.		Replacement
Kettner S.W. Mon.	✓	cover OK + 3-17-32	Columbia NW	T.O. 3-19-32	7' c.T. 5-17-32 +
India N.W.	T.O. 3-17-32	5-13-32	India S.W.	T.O. 3-19-32	7' c.T. 5-17-32 +
Columbia S.W.	T.O. 3-17-32	5-13-32			
State S.W. Mon	✓	cover set 3-17-32	+ A. St.		
Front. S.W. Mon	✓	cover set 3-17-32	India S.E.	T.O. 3-19-32	7' c.T. 5-17-32 +
2 nd S.E.	Did not fill	cover #	8 th N.E.	T.O. 3-19-32	7' c.T. 5-18-32 +
14 th S.W. S.E.	T.O. 3-17-32	5-13-32	13 th S.E.	T.O. 3-19-32	7' c.T. 5-18-32 +
17 th S.W. S.E.	T.O. 3-17-32	5-14-32 +	14 th S.W.	T.O. 3-14-32	7' c.T. 5-18-32 +
20 th N.E. S.E.	T.O. 3-17-32	5-14-32 +			
23 rd S.W.	T.O. 3-17-32	5-14-32 +	+ Ash St.		
+ Broadway			10 th N.W.	T.O. 3-14-32	7' c.T. 5-18-32 +
23 rd S.E.	T.O. 3-17-32	5-14-32	9 th S.W.	T.O. 3-19-32	7' c.T. 5-18-32 +
17 th S.W.	T.O. 3-17-32	5-14-32	8 th S.E.	T.O. 3-19-32	7' c.T. 5-18-32 +
16 th S.E.	T.O. 3-17-32	5-14-32	2 nd S.E. & NW	T.O. 3-19-32	7' c.T. 5-18-32 +
+ B. St.			Front. S.E.	T.O. 3-22-32	7' c.T. 5-18-32 +
24 th S.W. S.E.	T.O. 3-17-32	5-17-32 +	India S.W. N.E.	T.O. 3-22-32	7' c.T. 5-18-32 +
22 nd S.W.	T.O. 3-17-32	5-17-32 +	+ Beech St		
16 th S.W. MoH	3-17-32	+	India N.E. S.E.	T.O. 3-22-32	7' c.T. 5-18-32 +
14 th N.W.	T.O. 3-17-32	5-17-32	Bad. Return	10' N + 10' W	+
13 th S.W.	T.O. 3-17-32	5-17-32	Union NW	cf. T.O. 3-22-32	+
10 th S.W.	T.O. 3-17-32	5-17-32	2 nd S.W.	T.O. 3-22-32	7' c.T. 5-18-32 +
9 th S.W.	T.O. 3-19-32	5-17-32	N.W. - NE + in Rim		7' c.T. 5-18-32 +
2 nd N.W.	T.O. 3-19-32	5-17-32	8 th S.E.	T.O. 3-22-32	7' c.T. 5-18-32 +
1 st NW	T.O. 3-19-32	5-17-32	9 th S.W.	cmf. N.E.	7' c.T. 5-18-32 +
			10 th S.W.	T.O. 3-22-32	7' c.T. 5-18-32 +
			+ Union St		
			E. side bet		c.T. 5-18-32
			Date + Elm		Gone

+ Cedar St		Replacement	+ Elm St		Replacement
9 th N.W.	T.O. 3-22-32	7' c.T. 5-18-32 +	2 nd S.E.	T.O. 3-22-32	7' c.T. 5-19-32 +
8 th N.E.	T.O. 3-22-32	7' c.T. 5-18-32 +	2 nd S.W. Mon.		cover set +
6 th S.W.	T.O. 3-22-32	7' c.T. 5-18-32 +	Union S.E.	T.O. 3-22-32	7' c.T. 5-19-32 +
State S.W.	T.O. 3-22-32	7' c.T. 5-18-32 +	State N.W.	T.O. 3-22-32	7' c.T. 5-19-32 +
India S.W.	T.O. 3-22-32	7' c.T. 5-18-32 +	+ Fir St		
			India N.W.		7' c.T. 5-19-32 +
			India S.W.		5-19-32
			State N.W.		cf. outside 7' c.T. 5-19-32 +
+ Date St			+ Grape St		
India S.W.	T.O. 3-22-32	7' c.T. 5-18-32 +	India N.E.	T.O. 3-22-32	7' c.T. 5-19-32 +
State S.E.	T.O. 3-22-32	7' c.T. 5-17-32 +	India S.E.	c.T. outside of cover	+
+ Elm St			+ Hawthorn		
			India S.W.	T.O. 3-22-32	7' c.T. 5-19-32 +
			Columbia S.W.	T.O. 3-22-32	7' c.T. 5-19-32 +

+ Hawthorn		Replacement	+ Juniper St		Replacement
State S.E.	T.O. 3-22-32	7' c.T. 5-19-32 +	Front. N.E.	T.O. 3-22-32	7' c.T. 5-21-32 +
Albatross S.W.	T.O. 3-22-32	7' c.T. 5-19-32 +	2 nd N.W.	T.O. 3-22-32	7' c.T. 5-21-32 +
			4 th N.E.	T.O. 3-22-32	7' c.T. 5-21-32 +
+ Ivy St			6 th N.W.		5-21-32
4 th N.E.	Not 3-22-32	7' c.T. 5-20-32 +	+ Kalmia St.		
Union S.W.	Not 3-22-32	7' c.T. 5-20-32 +	4 th N.W.	T.O. 3-23-32	7' c.T. 5-21-32 +
Columbia N.E.	T.O. 3-22-32	7' c.T. 5-20-32 +	3 rd N.W.	Not 3-23-32	7' c.T. 5-21-32 +
India S.E.	T.O. 3-22-32	7' c.T. 5-20-32 +	Brant. S.W.	T.O. 3-23-32	7' c.T. 5-21-32 +
+ Juniper St			Curlew S.E.		7' c.T. 5-21-32 +
			+ Maple		
			4 th S.E.	T.O. 3-23-32	+
			3 rd S.W.	T.O. 3-23-32	+
			2 nd N.E.	T.O. 3-23-32	+
+ Elm St			+ Laurel		
			India S.W. - S.E. & N.E.		7' c.T. 5-21-32 +
			Columbia N.W. - N.E. - S.W. + S.E.		7' c.T. 5-23-32 +
			State N.W. - N.E. - S.W. + S.E.		7' c.T. 5-23-32 +

75

forlet 7/30
HPL

forlet 7/30
HPL

Tie Point Cover Replacements

Replacement		Replacement	
+ Nutmeg St		+ Redwood St	
3 rd N.E. T.O. 3-23-32	+	2 nd S.W. N.W. T.O. 3-23-32	+
4 th N.W. T.O. 3-23-32	+		
+ Olive St		+ Spruce	
4 th S.W. N.E. T.O. 3-23-32	+	2 nd N.W. S.W. Filled	7' set C.T. L.P. 3-23-32 +
3 rd S.W. N.E. T.O. 3-23-32	+		
+ Thorn St		+ Thorn St	
		1 st S.E. N.E. T.O. 3-23-32	+
		2 nd S.W. N.W. T.O. 3-23-32	+
		3 rd S.W. T.O. 3-23-32	+
		4 th S.E. T.O. 3-23-32	+
+ Quince		+ Upas	
2 nd N.W. S.W. T.O. 3-23-32	+	4 th S.W. T.O. 3-23-32	+

Painted 2/22/32 HPL

Replacement		Replacement	
+ Walnut Ave		+ Essex St	
3 rd N.W. T.O. 3-23-32	+	Vermont S.W. T.O. 3-23-32	7' set
		Tie Pts.	+
+ Brookes Ave		+ J. St.	
3 rd S.E. Not 3-23-32	+	7 th N.E.	7' C.T. in L.P. 5-9-32 +
1 st S.C. Not	+	5 th N.E.	7x10 C.T. in L.P. 5-9-32 +
Front N.W. T.O. 3-23-32	+	10 th S.W.	7' Cover. 5-9-32 +
		PL. Bet 14 th + 15 th C.T. on S. 7' line	7' C.T. in curb + J. T.O. 5-9-32 N.E. 8' 00" N.W. 8' 00"
+ Pennsylvania		+ K. St	
1 st N.W. T.O. 3-23-32	+	15 th N.W. + N.E.	7' C.T. in L.P. 5-9-32 +
3 rd S.E. Not 3-23-32	+	16 th N.W.	7' C.T. L.P. 5-9-32 +
4 th S.E. Not 3-23-32	+		
5 th S.E. T.O. 3-23-32	+	24 th N.W. Not filled	cover
		13 th S.W.	7' C.T. L.P. 5-9-32 +
+ Robinson		+ L. St	
8 th N.W. T.O. 3-23-32	7' set +	9 th N.W.	7' C.T. L.P. 5-9-32 +
6 th N.E. Not 3-23-32	7' set +	11 th S.W.	7' C.T. L.P. 5-9-32 +
3 rd S.W. T.O. 3-23-32	7' set +	5 th S.W.	11x7' C.T. L.P. 5-9-32 +
1 st N.W. Not 3-23-32	7' C.T. +	4 th S.E. + N.W.	7' C.T. L.P. 5-9-32 +
+ Univ Ave		+ L. St	
3 rd S.E. T.O. 3-23-32	7' C.T. +	6 th N.W.	7' C.T. L.P. 5-9-32 +
4 th N.E. Not	Walk Reflood no C.T. +	11 th S.W.	7' C.T. L.P. 5-9-32 +
8 th S.E. T.O. 3-23-32	cont. cracked. C.T. E. Line 3 rd S.T. Unit	12 th S.E. + N.E.	7' C.T. L.P. 5-10-32 +
		13 th S.E.	7' C.T. L.P. 5-10-32 +
		15 th S.E. + N.E.	7' C.T. L.P. 5-10-32 +
		16 th N.W.	7' C.T. L.P. 5-10-32 +
		17 th N.E.	7' C.T. L.P. 5-10-32 +

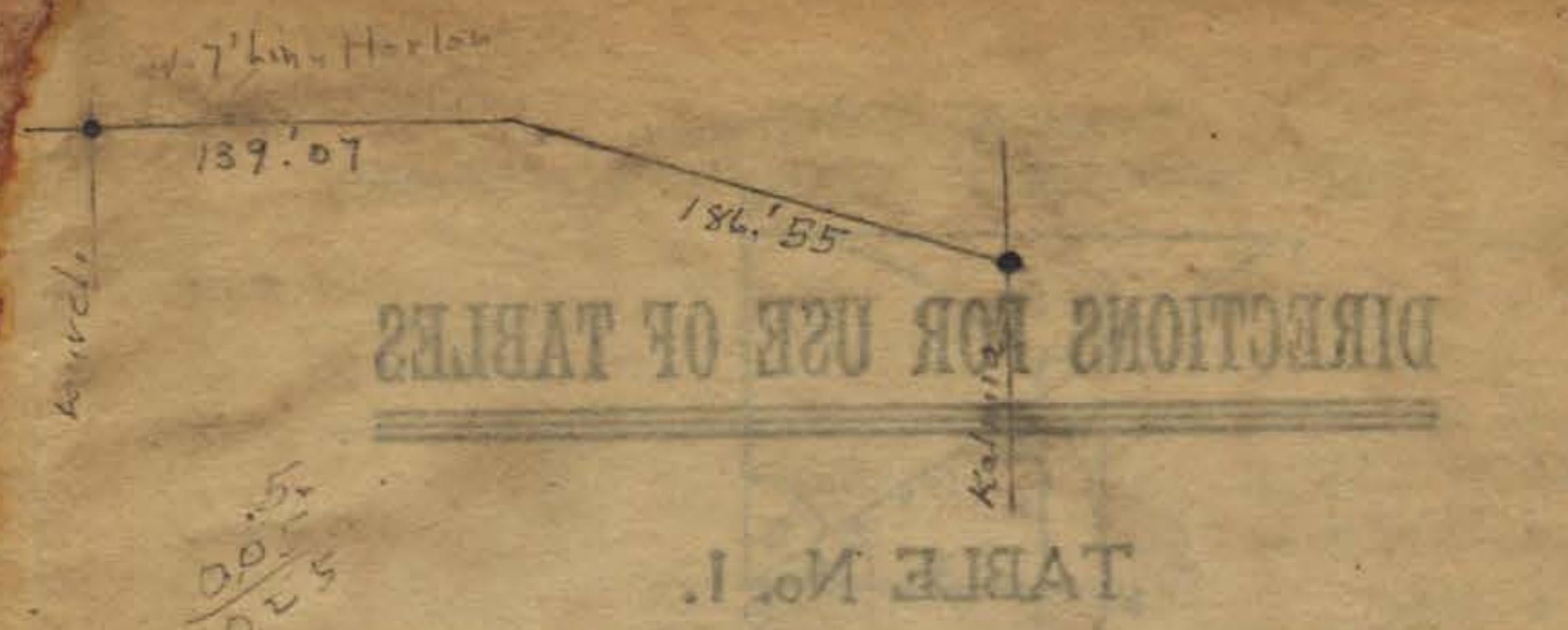
Painted 2/22/32 HPL

Tie Pt.		Replacement	
+ Imperial Ave		+ Market	
24 th S.W.	7' C.T. L.P. + 5-10-32	18 th St. N.W.	7' C.T. + 3-12-32
22 nd S.E.	7' C.T. L.P. + 5-10-32	15 th N.W.	7' C.T. + 3-12-32
21 st S.E.	7' C.T. L.P. + 5-10-32	12 th N.W.-N.E.+S.W.	7' C.T.s + 3-12-32
14 th N.E.	7' C.T. L.P. + 5-10-32	11 th N.W.-N.E.	7' C.T.s + 3-12-32
12 th S.W.	7' C.T. L.P. + 5-10-32	9 th N.W.	7' C.T. + 3-12-32
+ Sigsby St.		+ G. St.	
National S.W.	7' C.T. L.P. + 5-11-32	1 st S.W.	7' C.T. + 5-12-32
Newton N.W.-S.E.	7' C.T. L.P. + 5-11-32	Columbia N.W.	7' C.T. + 5-12-32
+ Crosby St.		+ F. St.	
Julian S.E.	7' C.T. L.P. + 5-11-32	India N.W.	7' C.T. + 5-13-32
+ Kearney		+ E. St.	
Marcey N.E.	7' C.T. L.P. + 5-11-32	2 nd N.E. & S.W.	7' C.T.s + 5-13-32
Sicard N.E.	7' C.T. L.P. + 5-11-32	3 rd S.W.	7' C.T. + 5-13-32
+ Island Ave		+ F. St.	
5 th N.W. N.E. & S.E.	10' x 7' C.T. L.P. + 5-11-32	5 th N.E.	7' C.T. + 5-13-32
6 th S.E.	7' C.T. L.P. + 5-11-32	6 th S.W.	7' C.T. + 5-13-32
7 th S.W.	7' C.T. L.P. + 5-11-32	7 th S.W.	7' C.T. + 5-13-32
24 th S.E.	7' C.T. + 5-12-32	8 th S.W.	7' C.T. + 5-13-32
9 th S.W. Min	Tied out - 3-4-37	9 th S.E.	7' C.T. + 5-13-32
		10 th S.W.	7' C.T. + 5-13-32
		12 th N.E.	7' C.T. + 5-13-32
		+ F. St.	
		15 th S.W.	7' C.T. + 5-13-32
		+ E. St.	
		Columbia S.E.	7' C.T. + 5-13-32
		Front N.E.	7' C.T. + 5-13-32
		2 nd S.E.	did not fill ⊕

Tie Pt.		Replacement	
+ E. St.		+ B. St.	
2 th N.W.	7' C.T. + 5-13-32	25 th S.E.	7' C.T. + 5-17-32
16 th N.E.	7' C.T. + 5-14-32	21 st SW-S.E.	7' C.T.s + 5-17-32
19 th N.E.	7' C.T. + 5-14-32	20 th S.W.-S.E.	
+ Broadway		+ Ash. St.	
24 th S.E.	7' C.T. + 5-14-32	19 th S.W.-S.E.	
15 th S.E.	7' C.T. + 5-14-32	12 th S.E.	7' C.T. + 5-17-32
13 th N.W.	7' C.T. + 5-14-32	8 th N.W.-N.E.	7' C.T.s + 5-17-32
1 st S.W. 7' C.T.	7' C.T. + 5-16-32	Front S.E.	7' C.T. + 5-17-32
1 st S. 7' line Body W. Line 1 st	7' C.T. + 5-16-32	Union N.E.	7' C.T. + 5-17-32
1 st N.W.	7' C.T.s + 5-16-32	Columbia S.W.	7' C.T. + 5-17-32
Front N.W. & N.E.	7' C.T. + 5-16-32	India N.E.	7' C.T. + 5-17-32
Union N.E.	7' C.T. + 5-16-32	+ K. St.	
Columbia N.W.	7' C.T. + 5-16-32	Columbia N.E.	7' C.T. + 5-17-32
India N.E.	7' C.T. + 5-16-32	State S.W.	7' C.T. + 5-17-32
Kettner N.E.	7' C.T. + 5-16-32	6 th N.W.-N.E. & S.W.	7' C.T.s + 5-18-32
+ C. St.		+ Ash. St.	
India N.E. N.W. & S.E.	7' C.T.s + 5-16-32	7 th S.E.	7' C.T. + 5-18-32
State N.W.-S.E.	7' C.T.s + 5-16-32	8 th S.W.	7' C.T. + 5-18-32
Union N.W.-N.E.	7' C.T.s + 5-17-32	9 th S.E.	7' C.T. + 5-18-32
1 st Hill 11 th		17 th N.E.	7' C.T. + 5-18-32
12 th S.W.	7' C.T. + 5-17-32	18 th N.W.	7' C.T. + 5-18-32
13 th S.W.	7' C.T. + 5-17-32	+ Ash. St.	
18 th N.W.	7' C.T. + 5-17-32	10 th S.E.	7' C.T. + 5-18-32
19 th N.W.-S.W.	7' C.T.s + 5-17-32	7 th N.E. & N.W.	7' C.T.s + 5-18-32
20 th N.W.	7' C.T.s + 5-17-32	Union N.E.	7' C.T. + 5-18-32
		State N.W.	7' C.T. + 5-18-32

Tie Pt. Replacement

Replacement	Date	Replacement	Date
State S.W.	7' c.T. 5-18-32	Juniper	7' c.T. 5-20-32
Beech St	5-18-32	Columbia SW-S.E.	5-20-32
Cedar	7' c.T. 5-18-32	State N.W. 10' to south 10 W.	5-20-32
4 th N.W.	7' c.T. 5-18-32	State S.W+S.E.	5-20-32
3 rd N.E.	7' c.T. 5-18-32	Union S.W.	7' c.T. 5-20-32
2 nd N.W.	7' c.T. 5-18-32	Carlew N.E.	7' c.T. 5-20-32
2 nd S.W.	7' c.T. 5-19-32	Kalmia	7' c.T. 5-21-32
25' N. of S. Line Park	c.T. 5-19-32	6 th S.W.	7' c.T. 5-21-32
6' Line 6 th St.	c.T. 5-19-32	Albatross N.E.	7' c.T. 5-21-
25' N. of S. Line Park	c.T. 5-19-32	Albatross N.W. 5.17' Lines Kalmia	5-21-32
4' W. 7' Line of 7 th St	c.T. 5-19-32	India S.E. & S.W.	7' c.T. 5-21-32
25' N. of S. Line Park	c.T. 5-19-32	Union N.W.	7' c.T. 5-23-32
W. 7' Line 8 th St	c.T. 5-19-32	Horton N.W.	7' c.T. 5-23-32
10' S. of S. Line Park	c.T. 5-19-32	W. 7' Line Horton Bar (Kalmia)	7' c.T. 5-23-32
2.7' Line of 8 th St	c.T. 5-19-32	Carlew N.E.	7' c.T. 5-23-32
10' S. of S. Line Park	c.T. 5-19-32	Brant N.W.	7' c.T. 5-23-32
W. 7' Line of 9 th St	c.T. 5-19-32	Albatross N.W.	7' c.T. 5-23-32
India N.W.	7' c.T. 5-19-32	4 th N.E.	7' c.T. 5-23-32
E 1 st St	7' c.T. 5-19-32	6 th N.W.	7' c.T. 5-23-32
5 th N.W.	7' c.T. 5-19-32		
Grape	7' c.T. 5-19-32		
1 st N.E.	7' c.T. 5-19-32		
Hawthorn	7' c.T. 5-19-32		
2 nd S.E.	7' c.T. 5-19-32		
3 rd S.W.-N.W.+N.E.	7' c.T. 5-19-32		
N. 7' Line Hawthorn	c.T. 5-20-32		
22' E. of W. Line Park	c.T. 5-20-32		
N. 7' Line Hawthorn	c.T. 5-20-32		
7' E. of W. Line Park	c.T. 5-20-32		
Ivy St	c.T. 5-20-32		
5.7' Line Ivy	c.T. 5-20-32		
7' E. of W. Line Park	c.T. 5-20-32		
5.7' Line Ivy	c.T. 5-20-32		
22' E. of W. Line Park	c.T. 5-20-32		
3 rd N.W.-S.W.+S.E.	7' c.T. 5-20-32		



Distance of slope stake from side or shoulder stake for any width roadway, slope 1/2 to 1. If ground is nearly level, the cut or fill at side stake is located by the double entry method in left column and top row. The number in body

from side stake to slope stake. If ground is not

IMPROVED TABLES AND INFORMATION

TABLE No. 2

To find Tangent and External for curve of any other degree, divide by degree of curve and add connection found in column of connections. Degree of curve with a given I may be found by dividing tangent (or external), opposite I by given tangent (or external).

The distance from a point on the tangent to the curve is very nearly the square of the tangent length divided by twice the radius.