

1709-A

EUGENE DIETZGEN CO.

DRAWING MATERIALS, MATHEMATICAL and
SURVEYING INSTRUMENTS

Chicago New York San Francisco New Orleans Pittsburg Toronto

Distances from Center of Roadway for Cross-Sectioning
Roadway 16 feet wide. Side Slopes 1 on 1.
For Single Track Embankment.

H	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	H
0	8.0	8.1	8.2	8.3	8.4	8.5	8.6	8.7	8.8	8.9	0
1	9.0	9.1	9.2	9.3	9.4	9.5	9.6	9.7	9.8	9.9	1
2	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.9	2
3	11.0	11.1	11.2	11.3	11.4	11.5	11.6	11.7	11.8	11.9	3
4	12.0	12.1	12.2	12.3	12.4	12.5	12.6	12.7	12.8	12.9	4
5	13.0	13.1	13.2	13.3	13.4	13.5	13.6	13.7	13.8	13.9	5
6	14.0	14.1	14.2	14.3	14.4	14.5	14.6	14.7	14.8	14.9	6
7	15.0	15.1	15.2	15.3	15.4	15.5	15.6	15.7	15.8	15.9	7
8	16.0	16.1	16.2	16.3	16.4	16.5	16.6	16.7	16.8	16.9	8
9	17.0	17.1	17.2	17.3	17.4	17.5	17.6	17.7	17.8	17.9	9
10	18.0	18.1	18.2	18.3	18.4	18.5	18.6	18.7	18.8	18.9	10
11	19.0	19.1	19.2	19.3	19.4	19.5	19.6	19.7	19.8	19.9	11
12	20.0	20.1	20.2	20.3	20.4	20.5	20.6	20.7	20.8	20.9	12
13	21.0	21.1	21.2	21.3	21.4	21.5	21.6	21.7	21.8	21.9	13
14	22.0	22.1	22.2	22.3	22.4	22.5	22.6	22.7	22.8	22.9	14
15	23.0	23.1	23.2	23.3	23.4	23.5	23.6	23.7	23.8	23.9	15
16	24.0	24.1	24.2	24.3	24.4	24.5	24.6	24.7	24.8	24.9	16
17	25.0	25.1	25.2	25.3	25.4	25.5	25.6	25.7	25.8	25.9	17
18	26.0	26.1	26.2	26.3	26.4	26.5	26.6	26.7	26.8	26.9	18
19	27.0	27.1	27.2	27.3	27.4	27.5	27.6	27.7	27.8	27.9	19
20	28.0	28.1	28.2	28.3	28.4	28.5	28.6	28.7	28.8	28.9	20
21	29.0	29.1	29.2	29.3	29.4	29.5	29.6	29.7	29.8	29.9	21
22	30.0	30.1	30.2	30.3	30.4	30.5	30.6	30.7	30.8	30.9	22
23	31.0	31.1	31.2	31.3	31.4	31.5	31.6	31.7	31.8	31.9	23
24	32.0	32.1	32.2	32.3	32.4	32.5	32.6	32.7	32.8	32.9	24
25	33.0	33.1	33.2	33.3	33.4	33.5	33.6	33.7	33.8	33.9	25
26	34.0	34.1	34.2	34.3	34.4	34.5	34.6	34.7	34.8	34.9	26
27	35.0	35.1	35.2	35.3	35.4	35.5	35.6	35.7	35.8	35.9	27
28	36.0	36.1	36.2	36.3	36.4	36.5	36.6	36.7	36.8	36.9	28
29	37.0	37.1	37.2	37.3	37.4	37.5	37.6	37.7	37.8	37.9	29
30	38.0	38.1	38.2	38.3	38.4	38.5	38.6	38.7	38.8	38.9	30
31	39.0	39.1	39.2	39.3	39.4	39.5	39.6	39.7	39.8	39.9	31
32	40.0	40.1	40.2	40.3	40.4	40.5	40.6	40.7	40.8	40.9	32
33	41.0	41.1	41.2	41.3	41.4	41.5	41.6	41.7	41.8	41.9	33
34	42.0	42.1	42.2	42.3	42.4	42.5	42.6	42.7	42.8	42.9	34
35	43.0	43.1	43.2	43.3	43.4	43.5	43.6	43.7	43.8	43.9	35
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 1½ see inside of back cover.

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1709

CITY ENGINEER'S OFFICE

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Made in U. S. A.

INDEX.

B.K.P. Montclair
Alley B.K. 7-City Hqts + 50-61

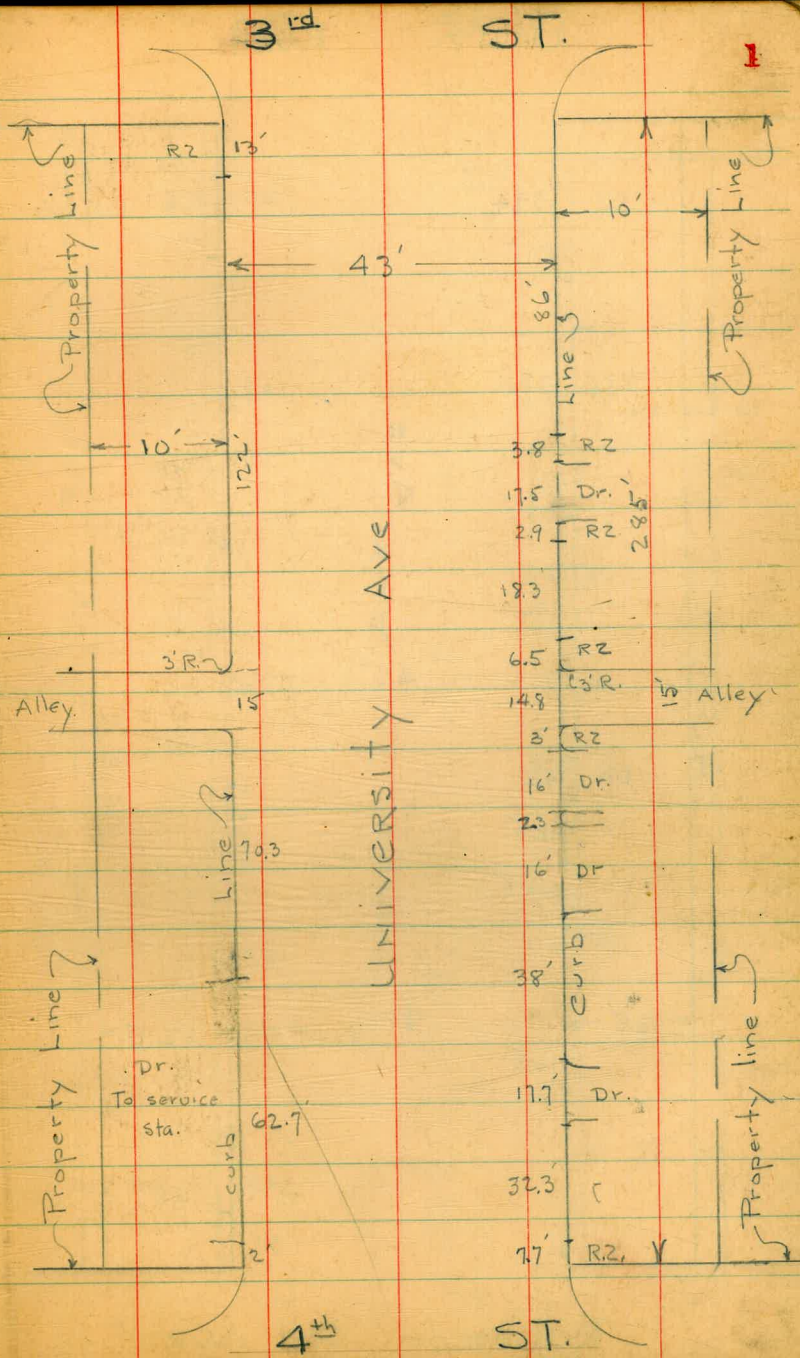
Indexed
C.S.K.

Osborne
Grauencamp
Harden
3-29-46

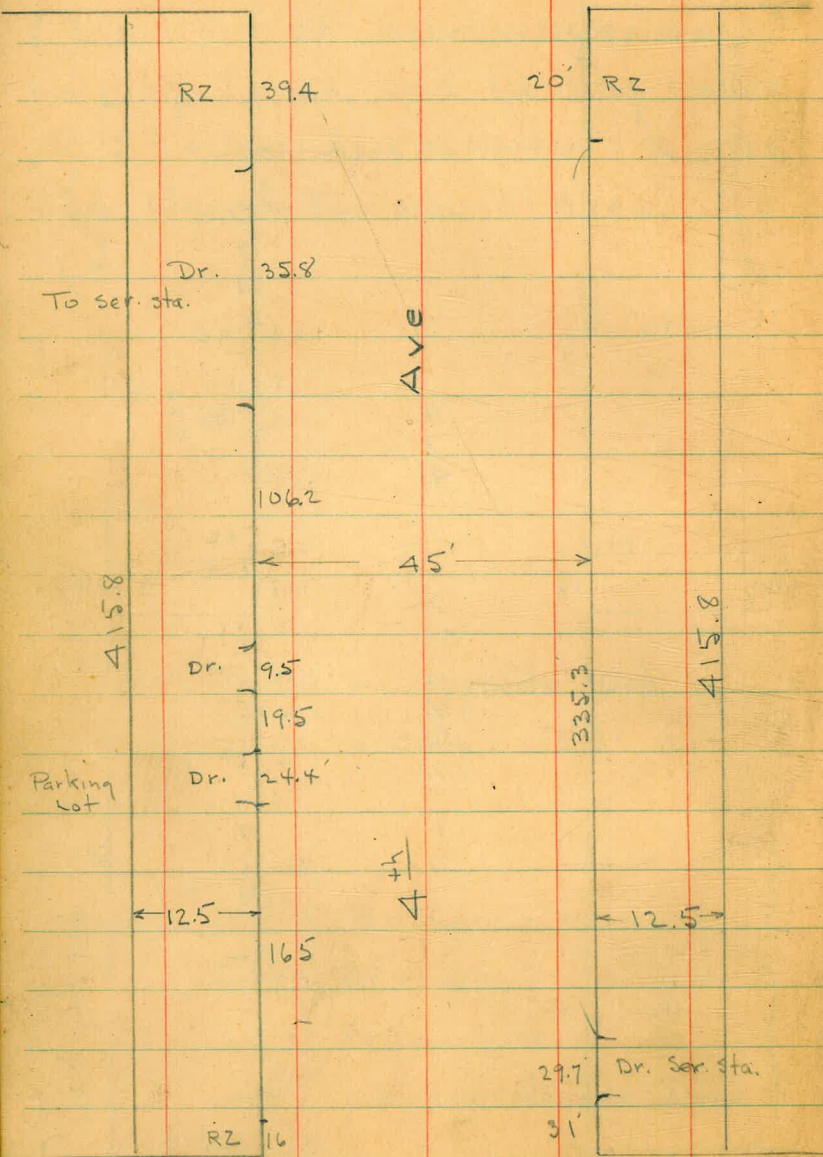
Location of Driveways, NO
parking Zones, and loading zones
in 5th + Univ. Area - North Park area
and Univ. + Fairmount Area.

Sketch shown on opposite page will
be typical as to definitions of curb +
property lines

Legend: RZ = Red Zone - No parking
Dr. = Driveway
yz = Yellow Zone
WZ = White passenger zone
P.L. = Diag. Parking Lines 4" wide
P.M. = Parking Meter



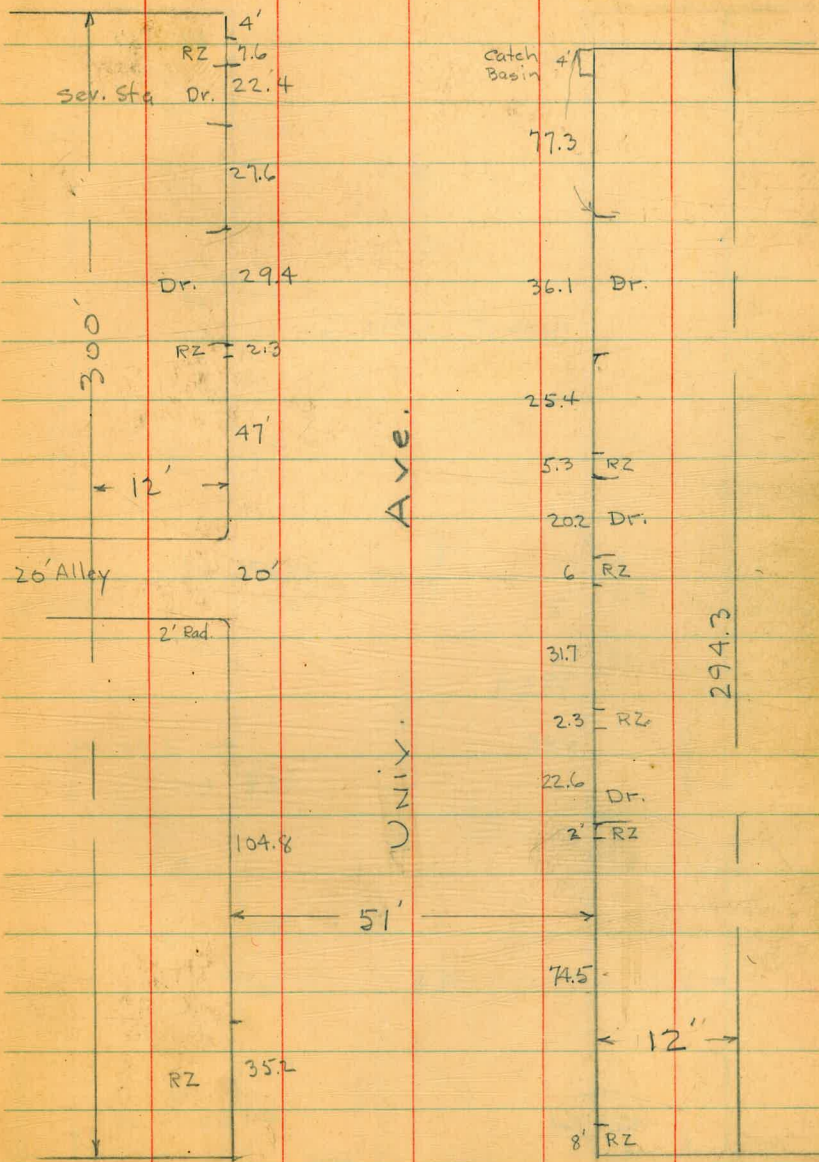
UNIV. Ave



Robinson Ave.

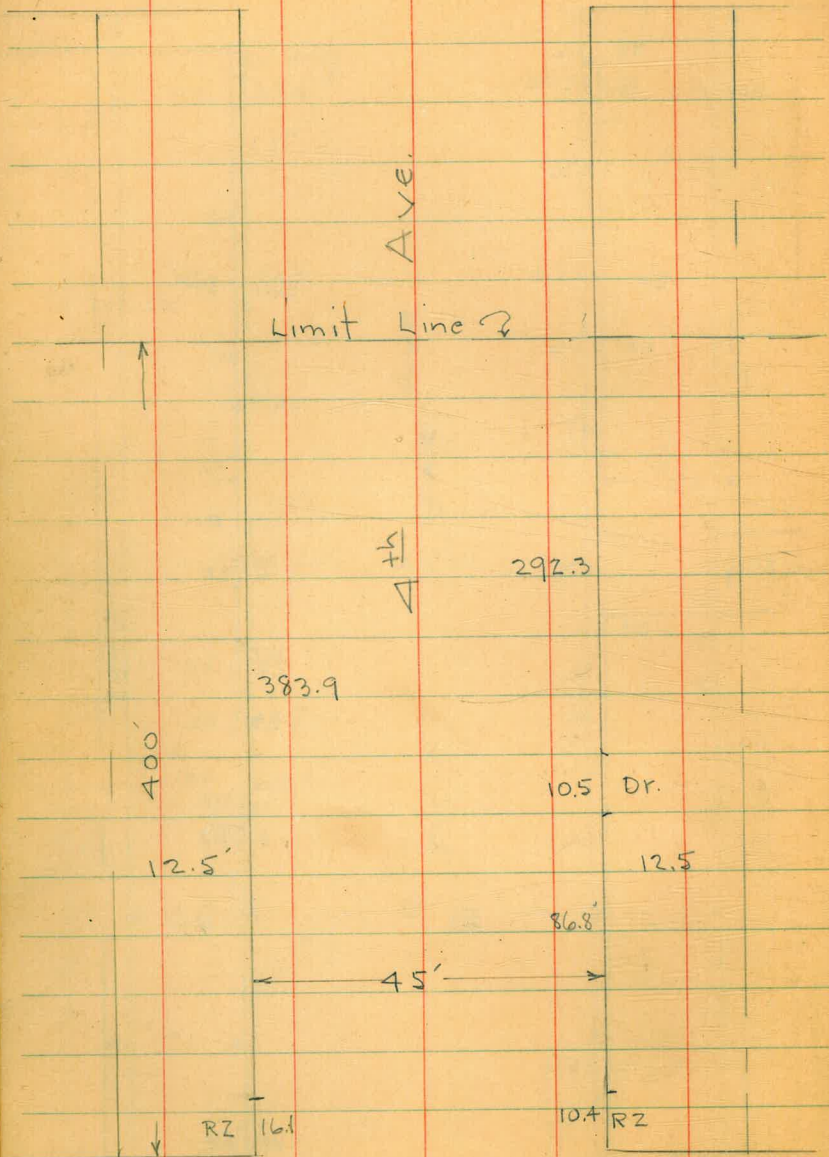
6th St.

2



7th St.

Washington Ave

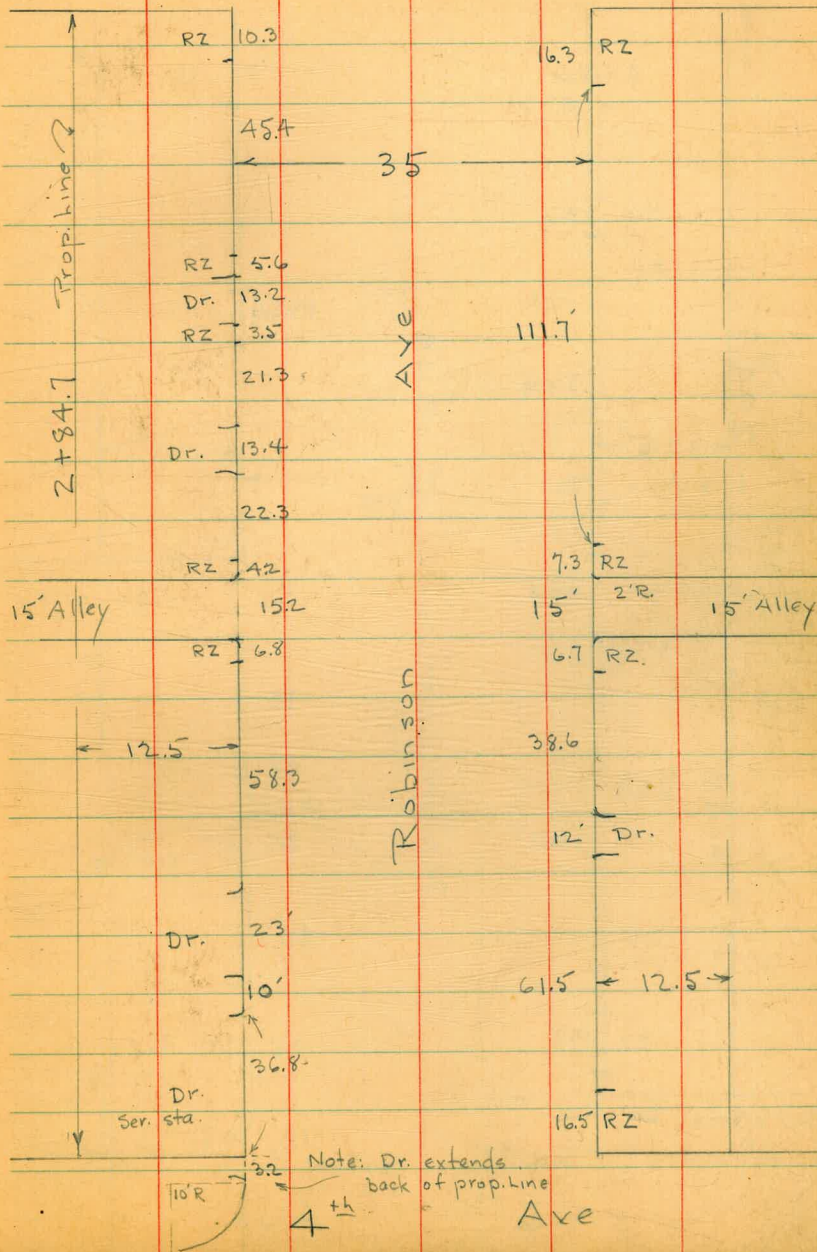


Univ. Ave

5th

Ave

3



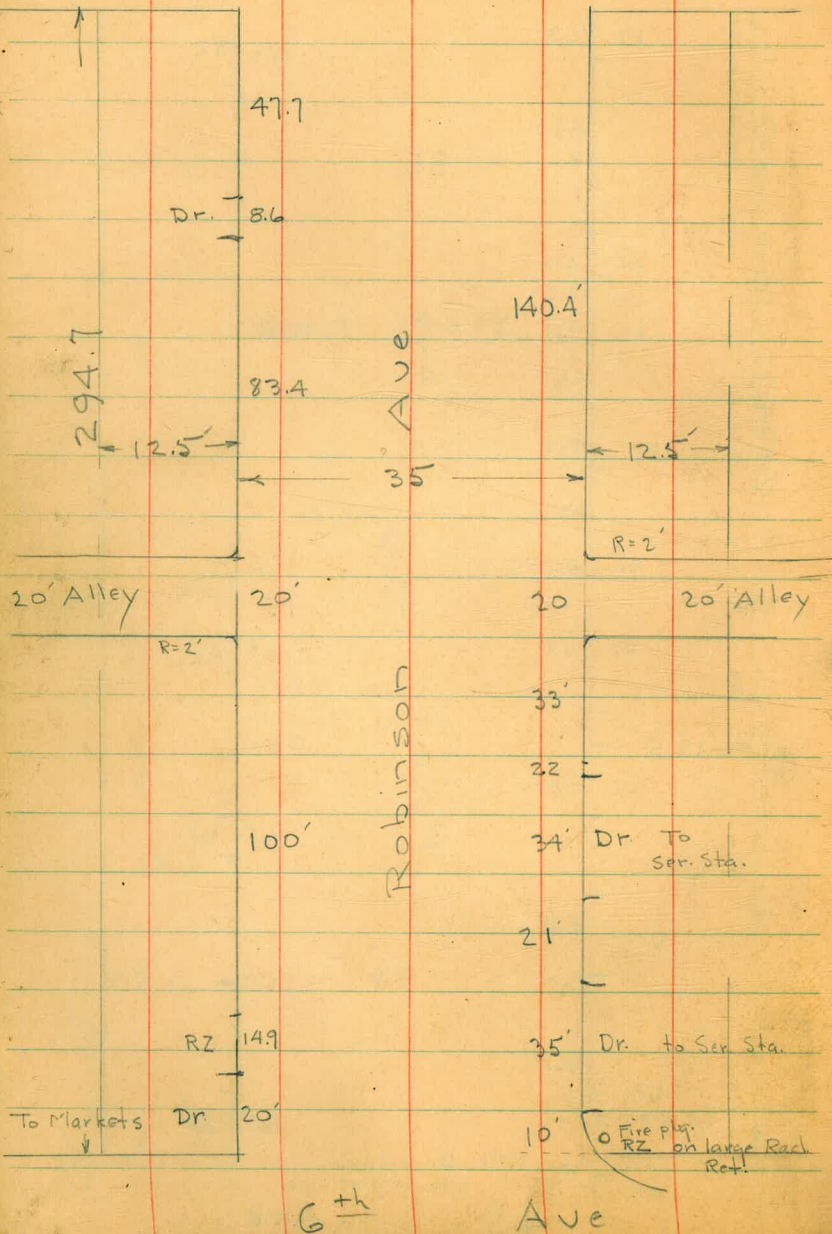
Robinson Ave

Note: Dr. extends back of prop. line

4th Ave

7th

Ave

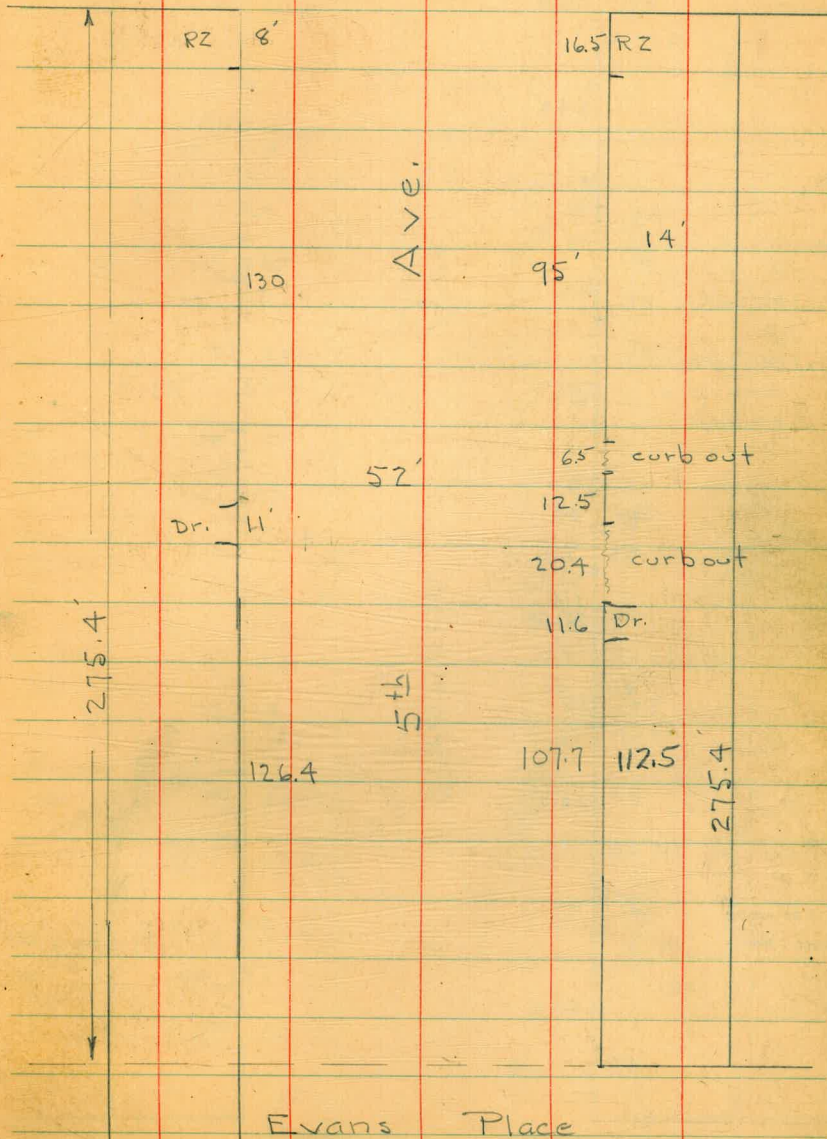


6th

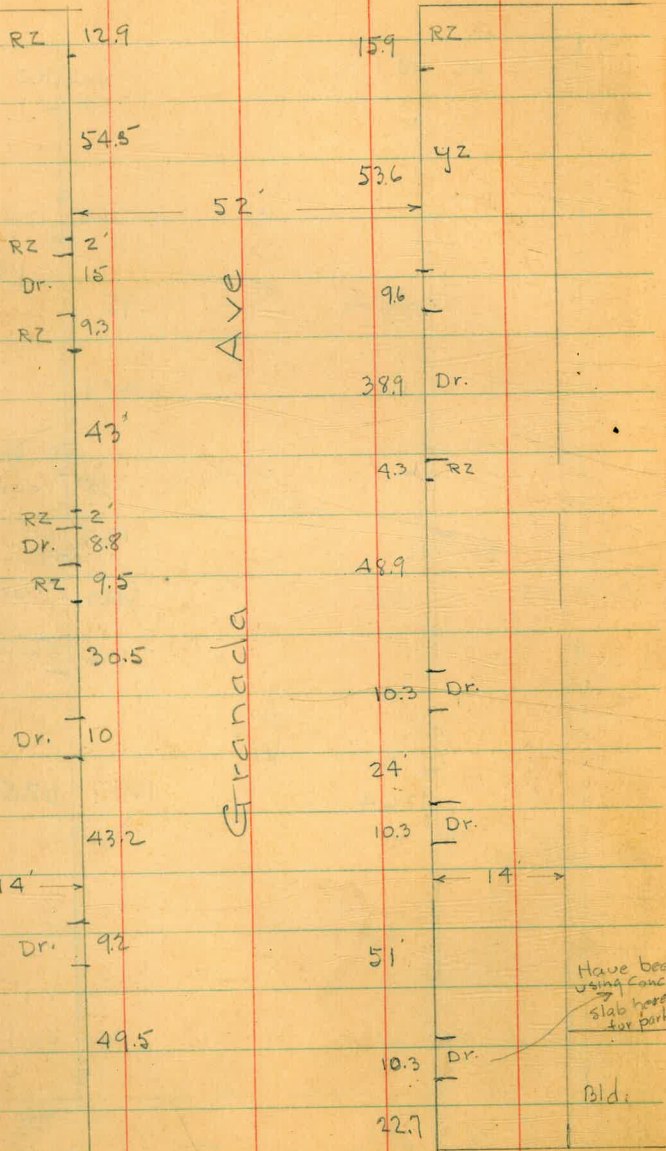
Ave

4

Robinson Ave



Evans Place



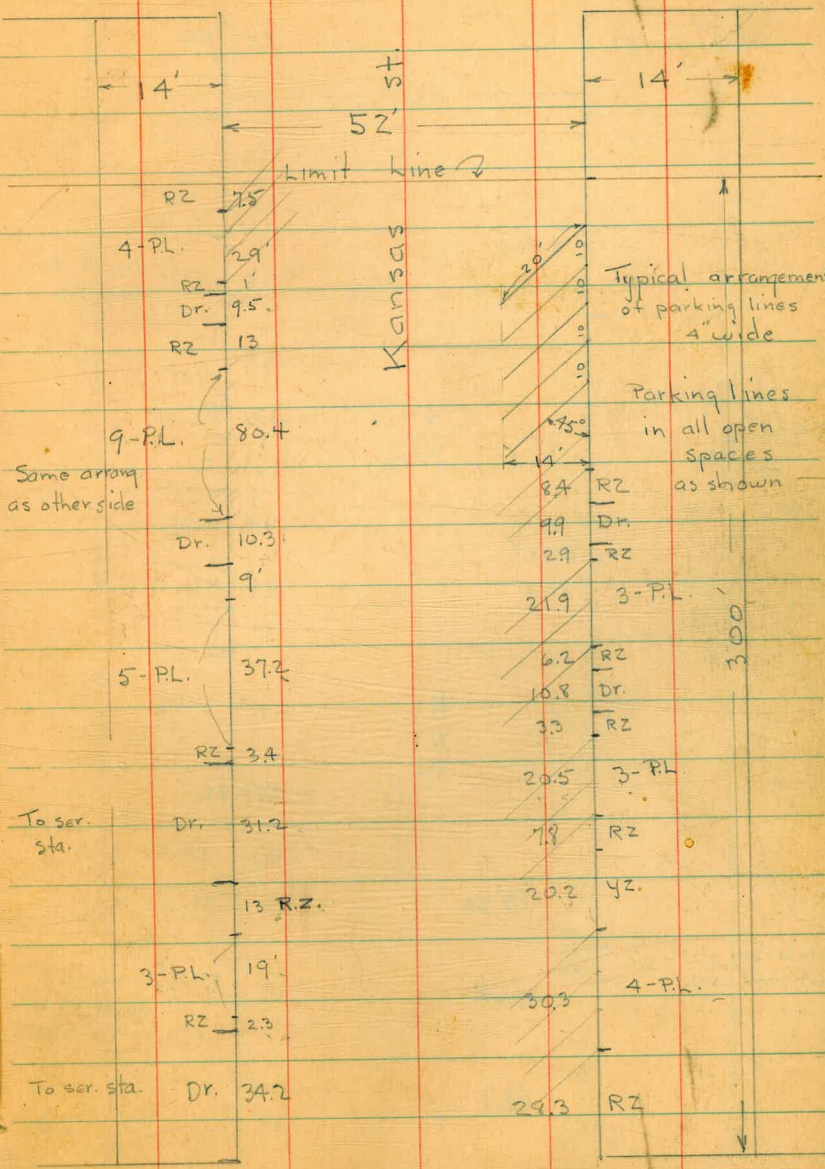
299.5

Not being used - lawn

Have been using conc. slab here for parking

Bld.

Wightman St.



Same arrang as other side

To ser. sta.

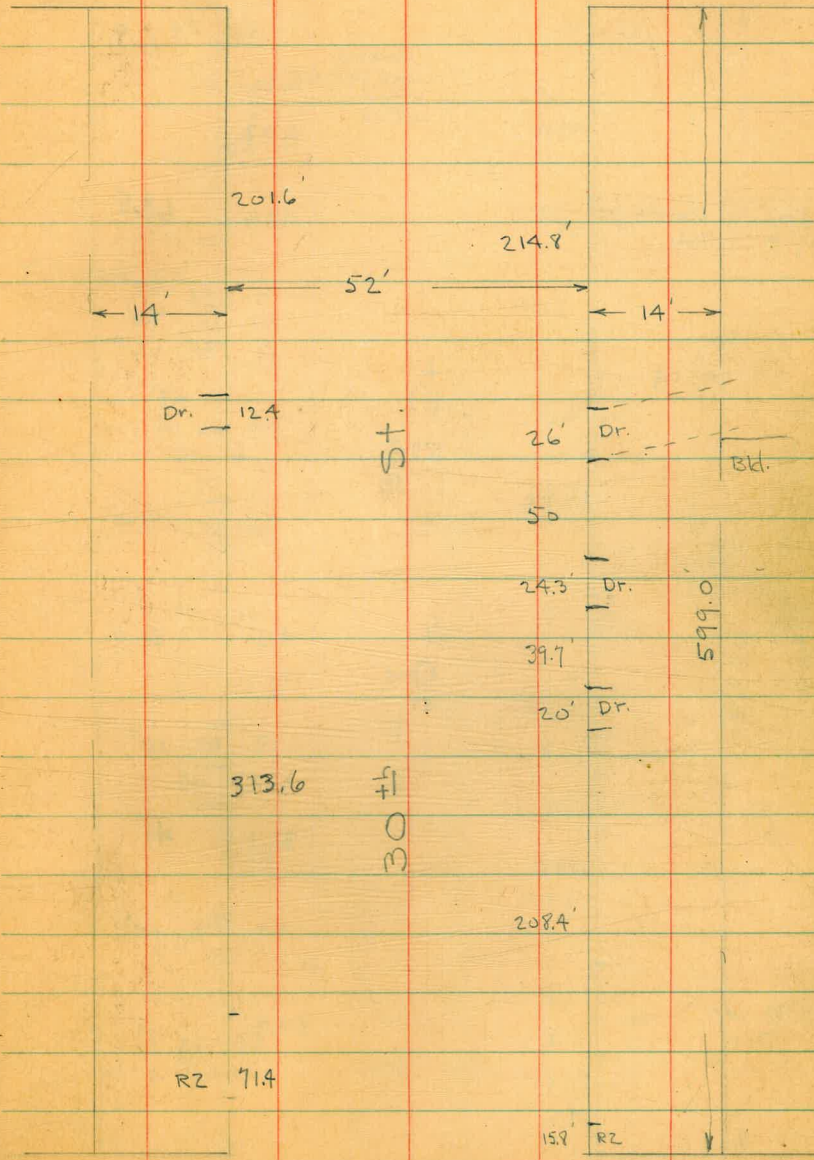
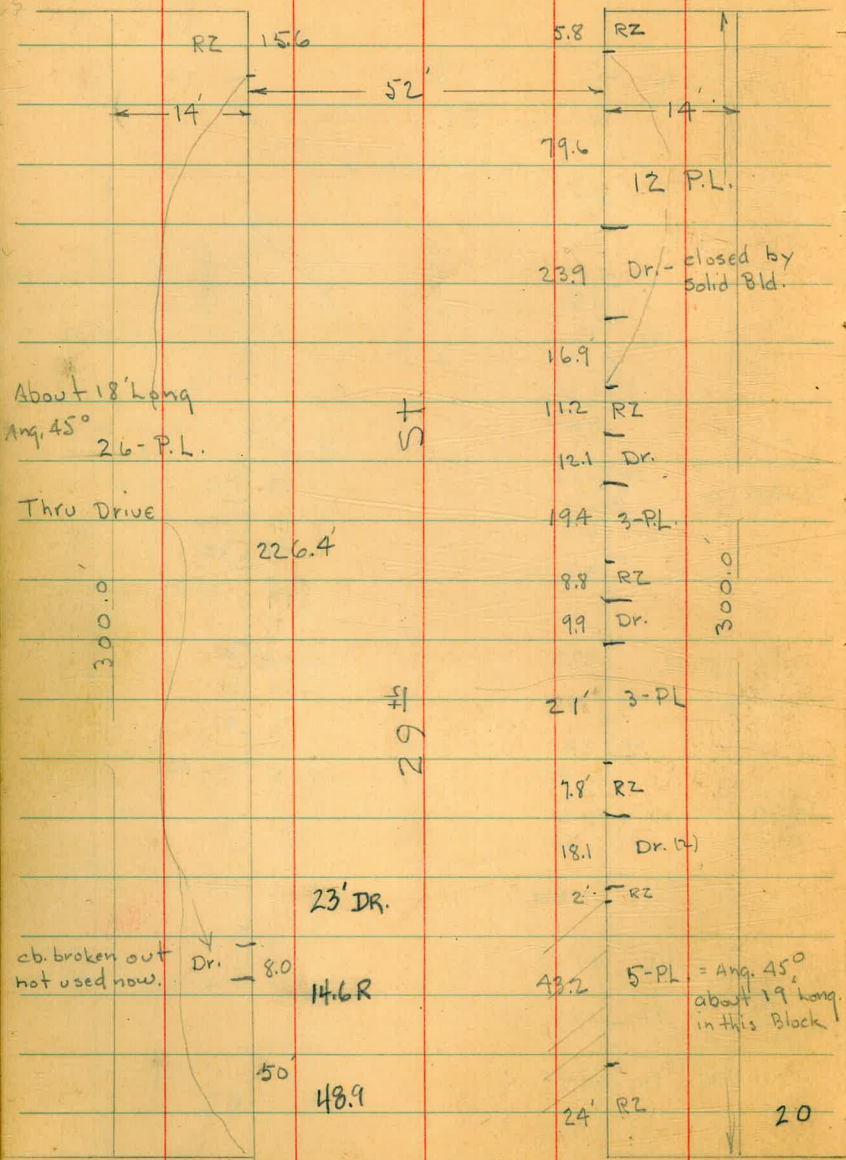
To ser. sta.

Univ. Ave

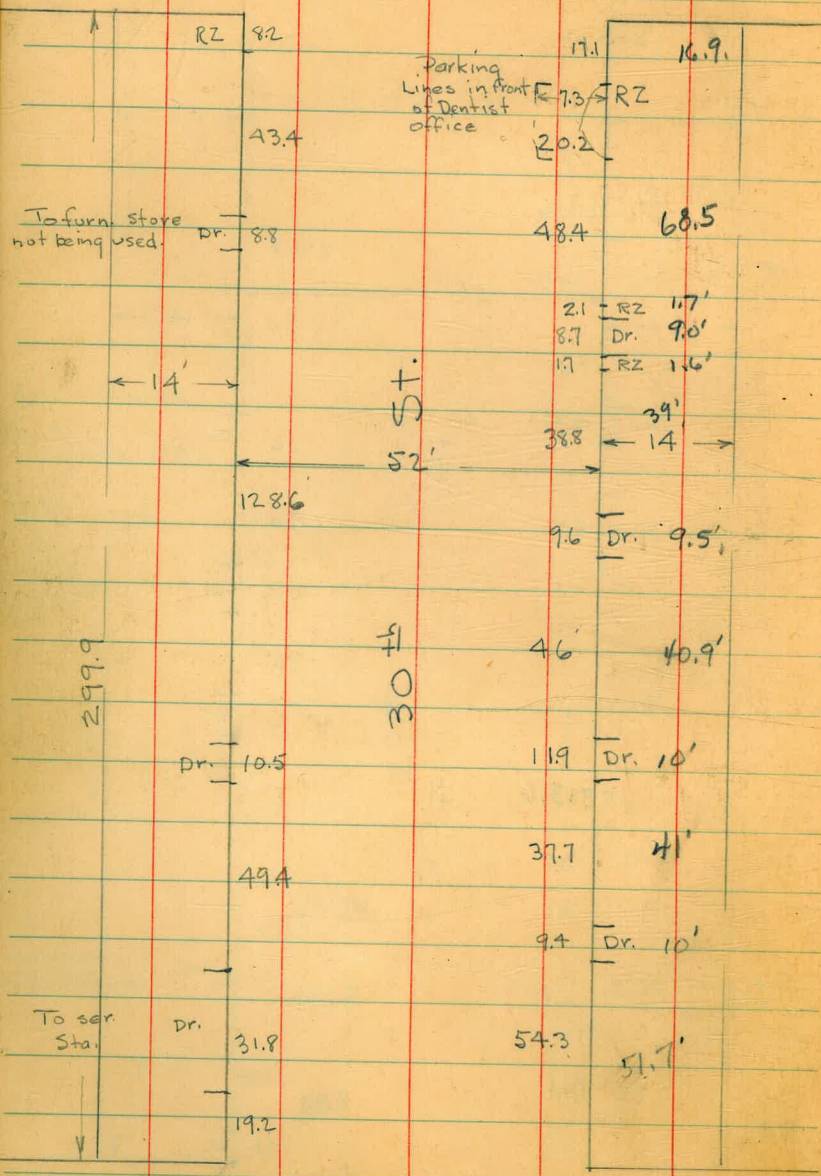
Typical arrangement of parking lines 4' wide

Parking lines in all open spaces as shown

300



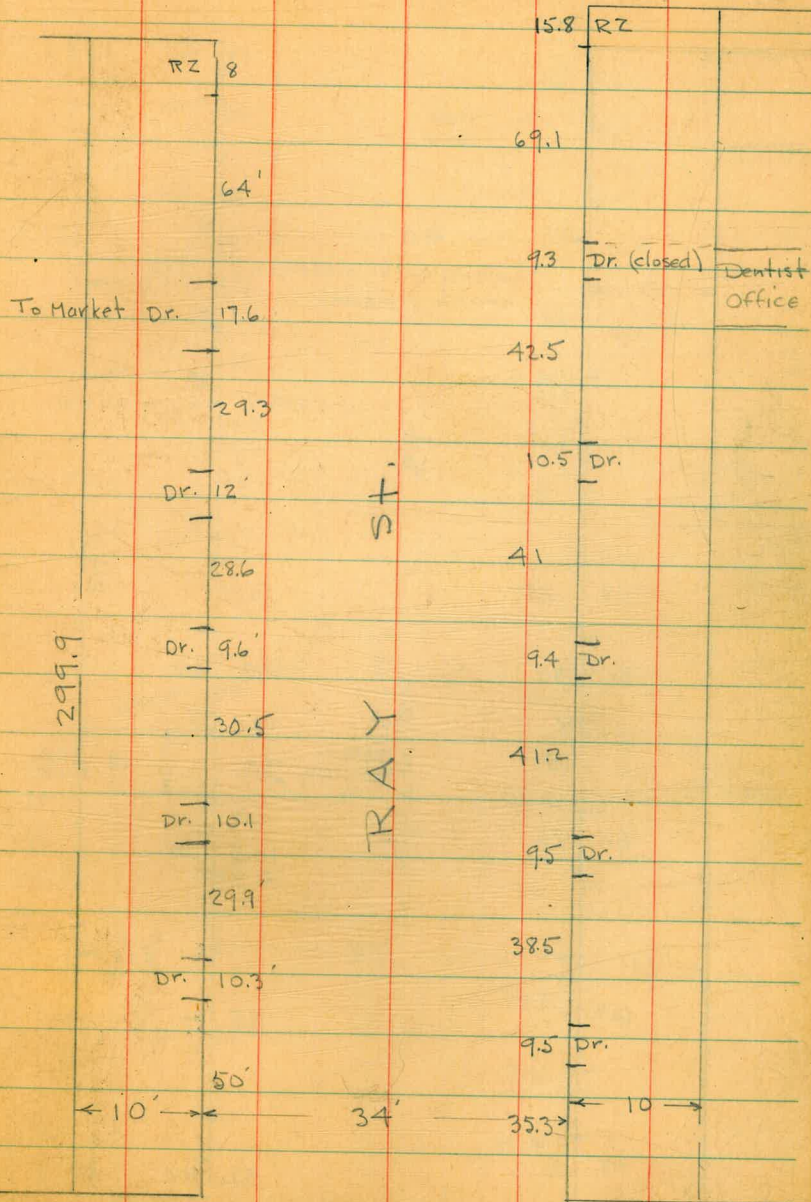
Wightman St.



Gunn St.

Wightman St.

7

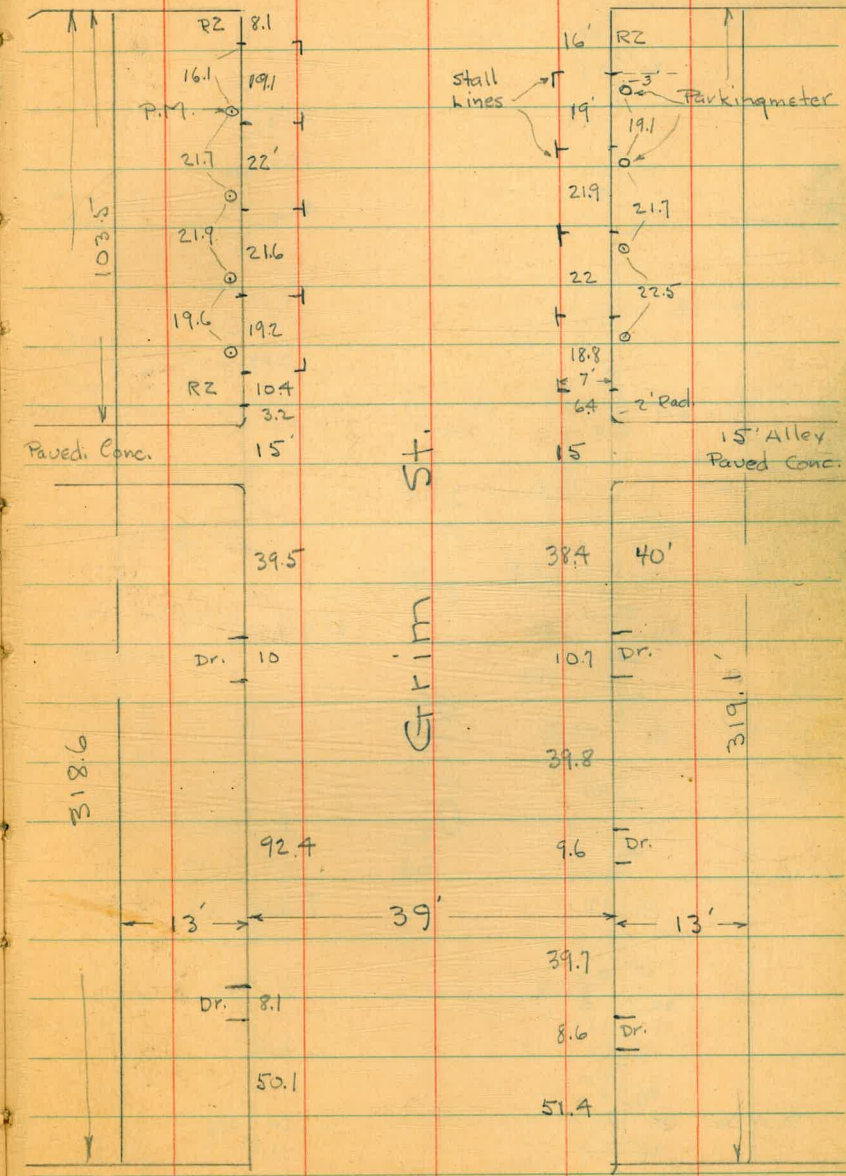
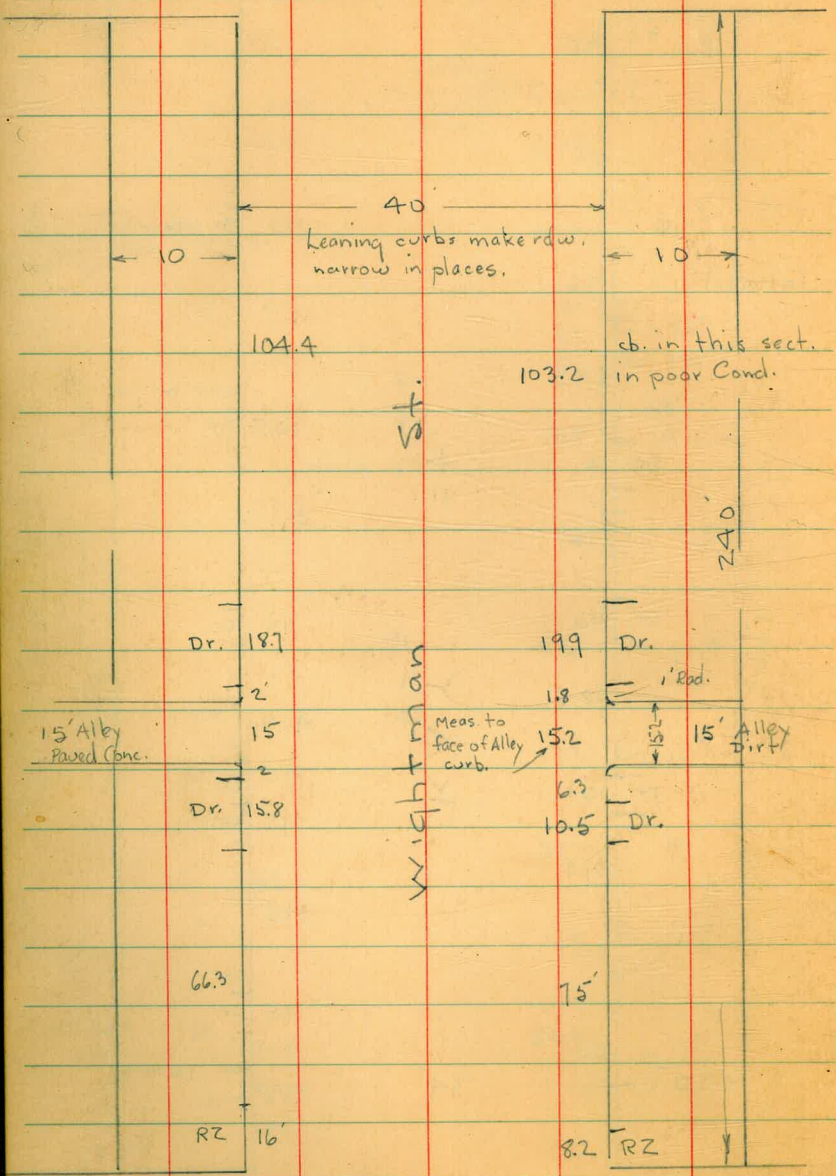


Gunn St.

Grim St.

Univ. Ave

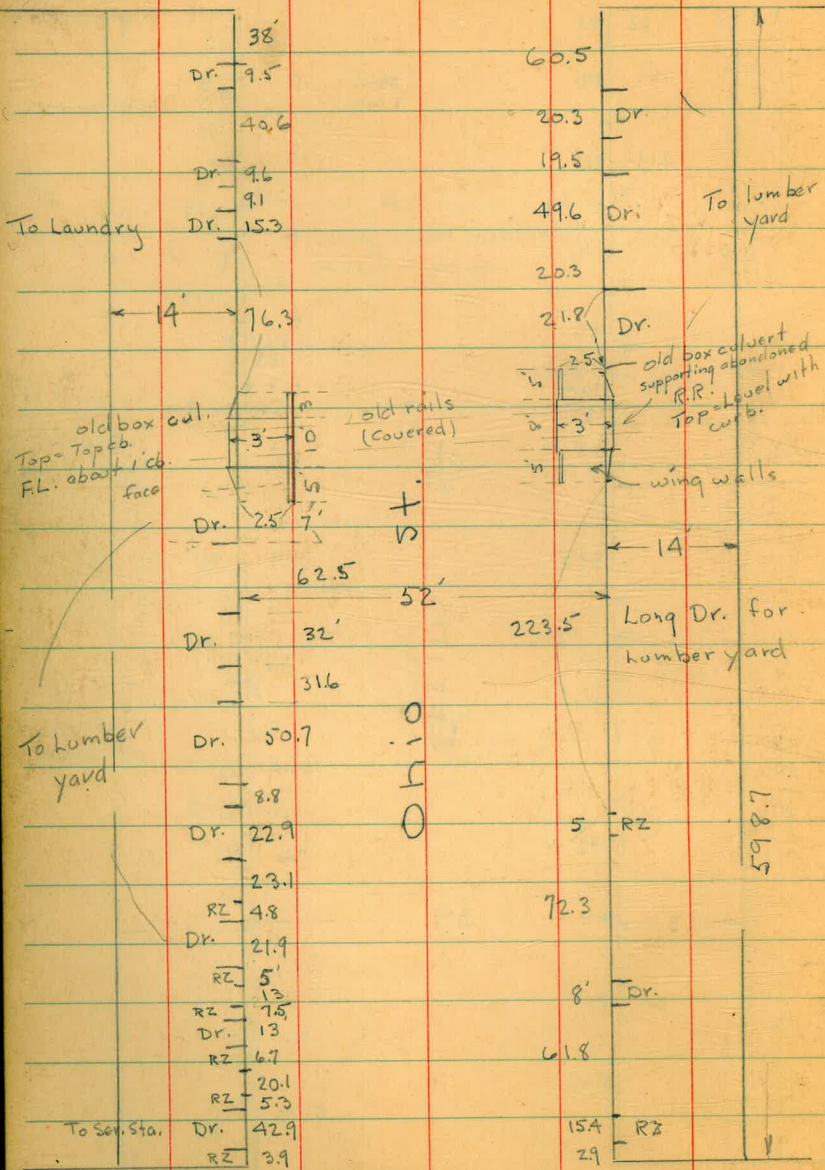
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Ray St.

Whightman St.

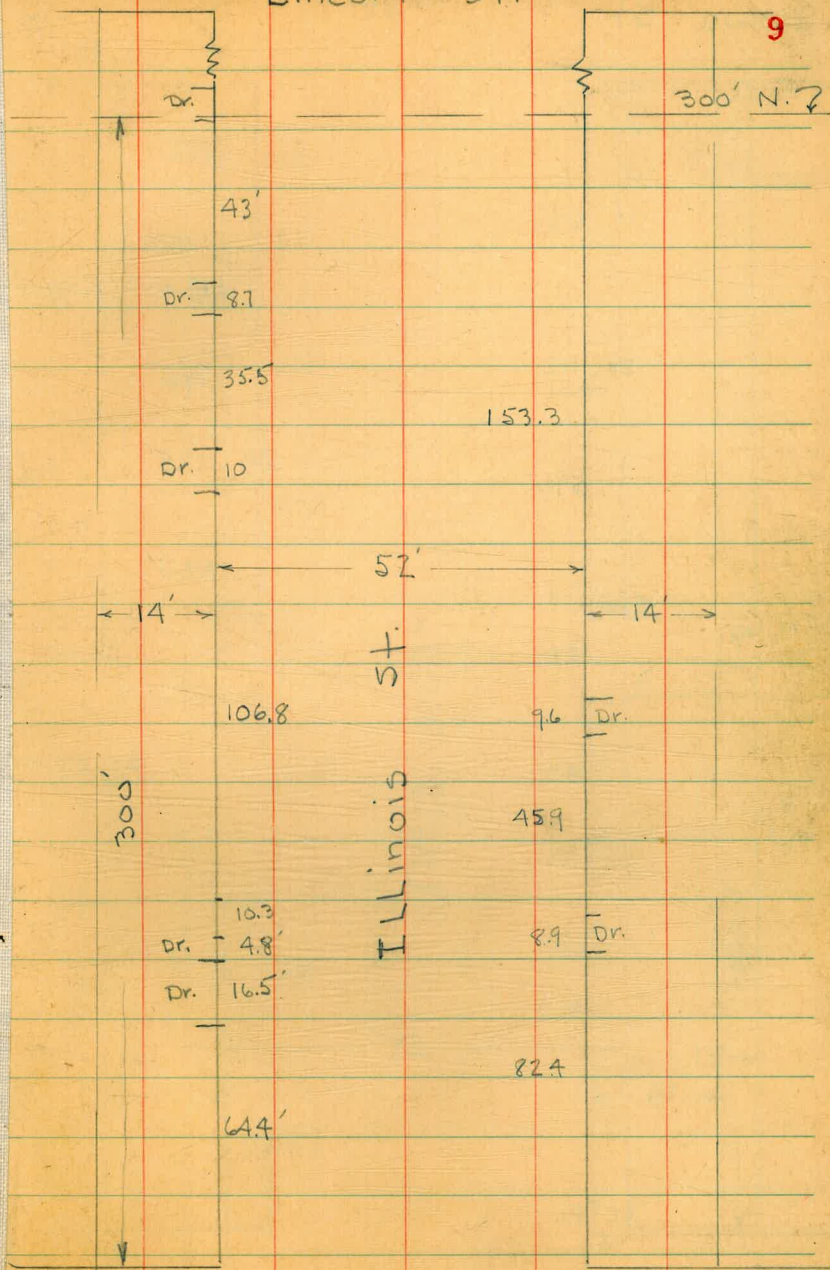
Lincoln



Univ. Ave

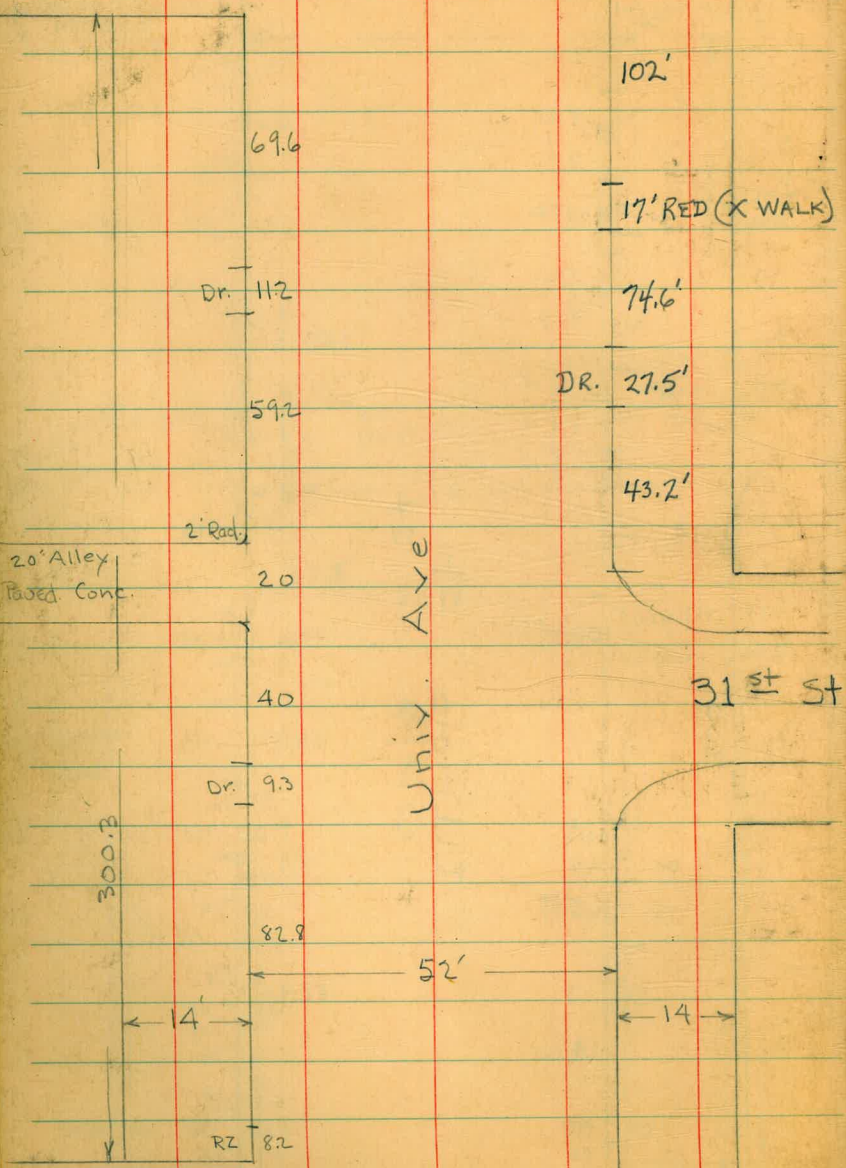
Lincoln St.

9



Univ. Ave

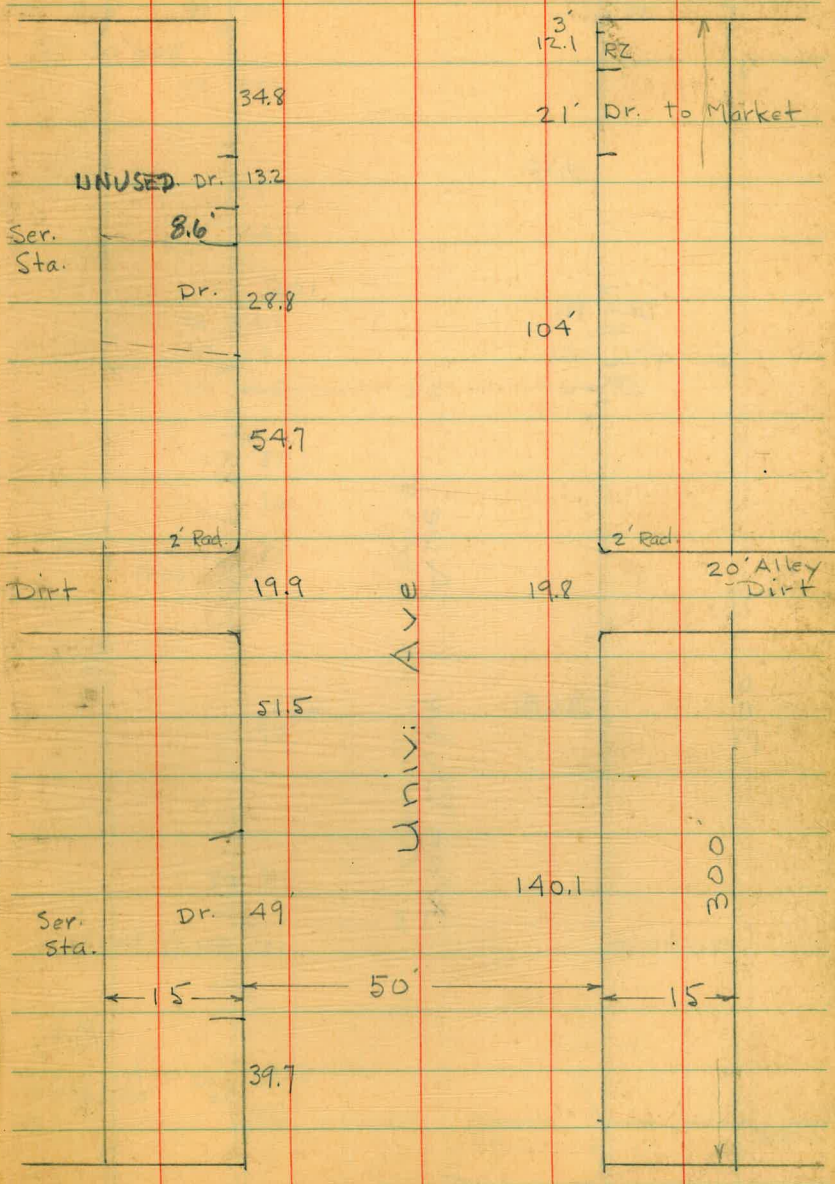
Iowa St.



Illinois St.

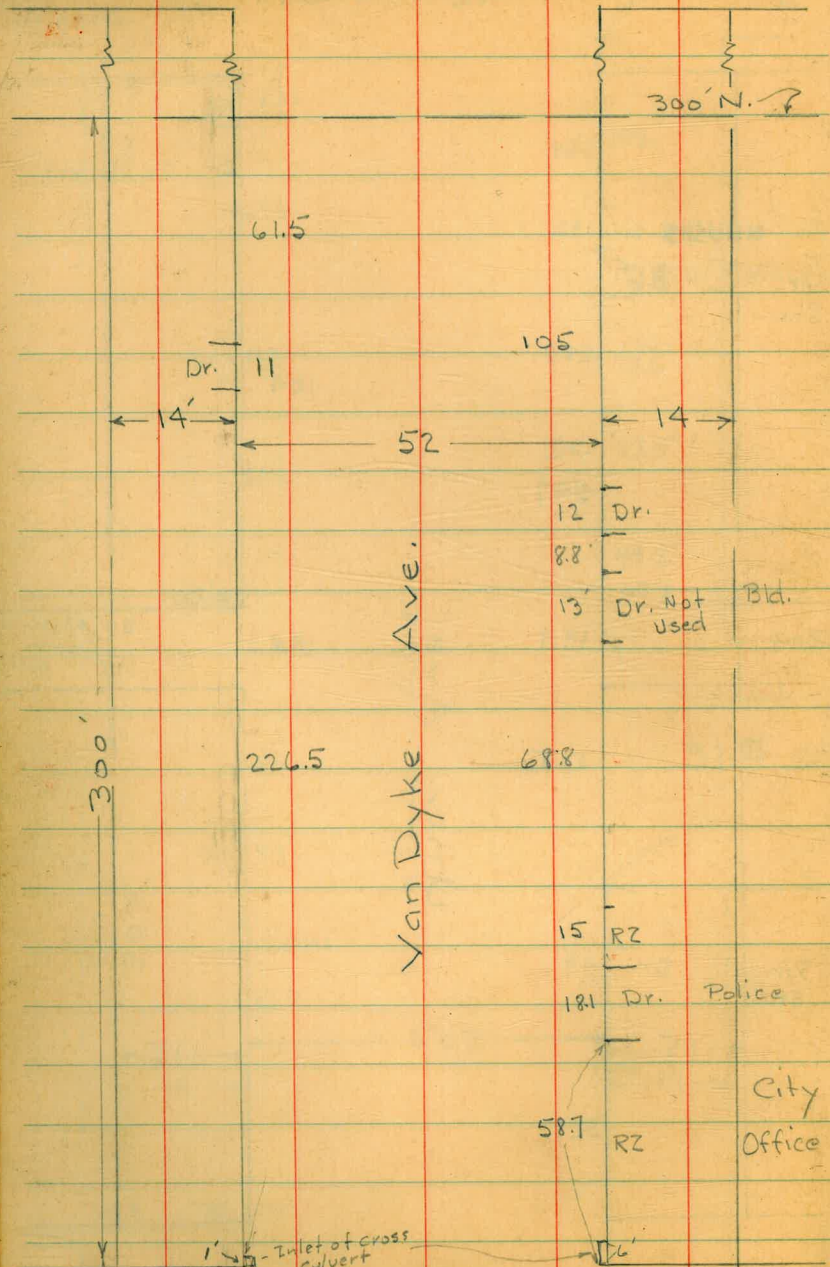
42nd St.

10



Marlborough St.

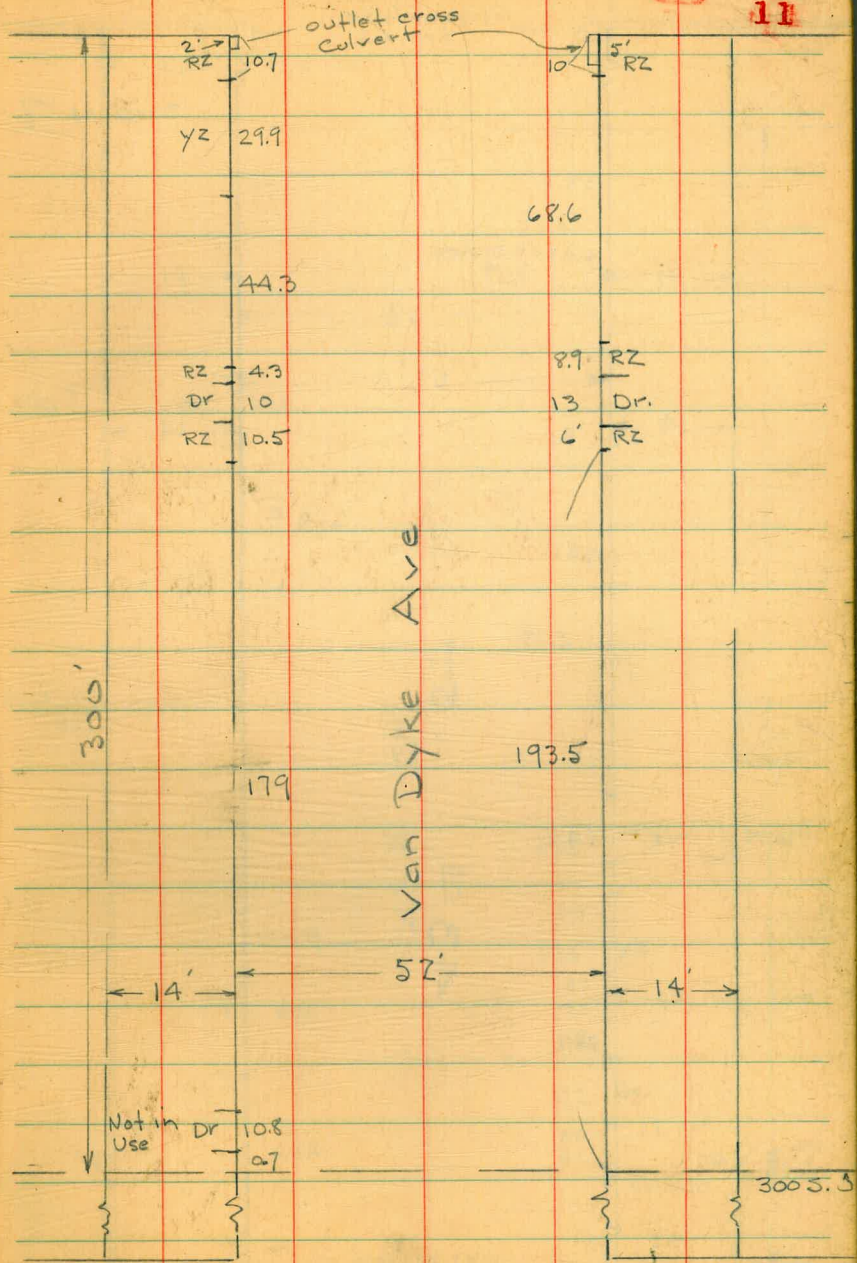
Polk St.



Univ. Ave

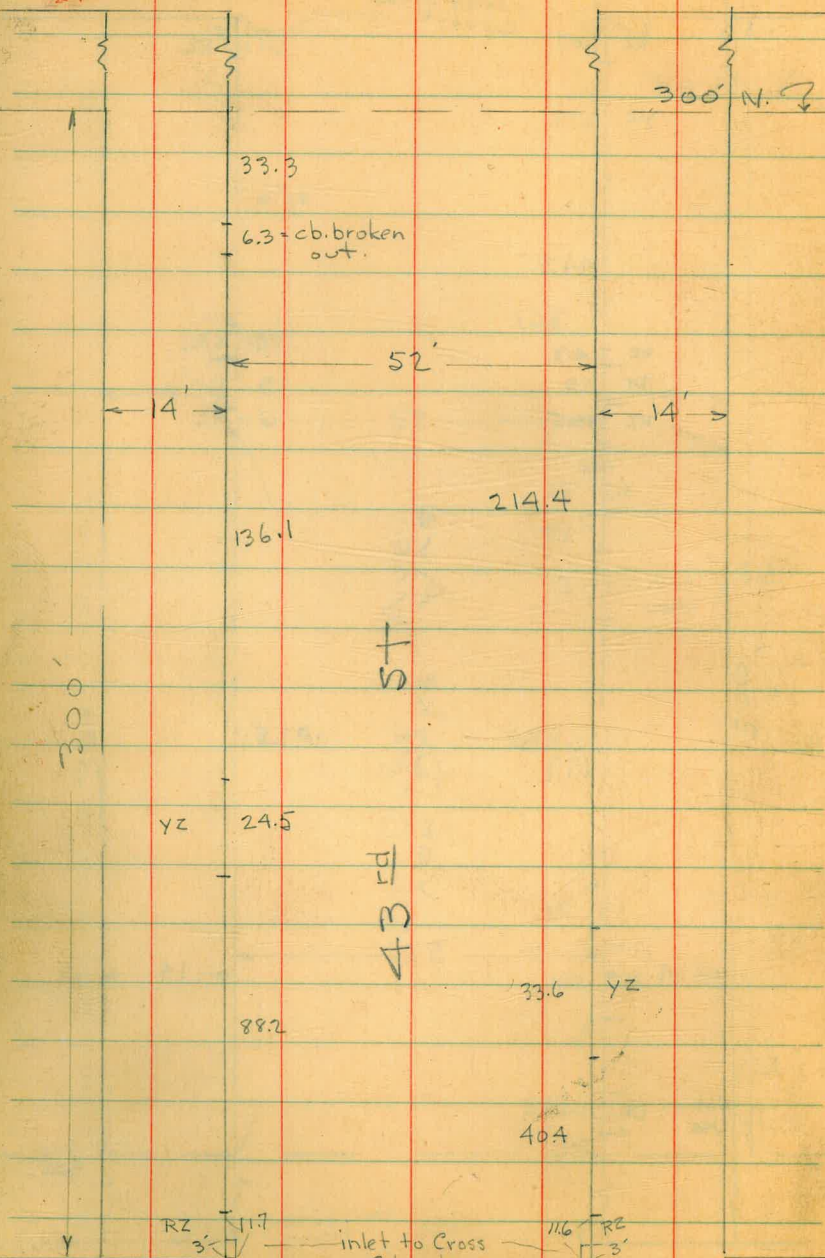
Univ. Ave

11



Wightman St.

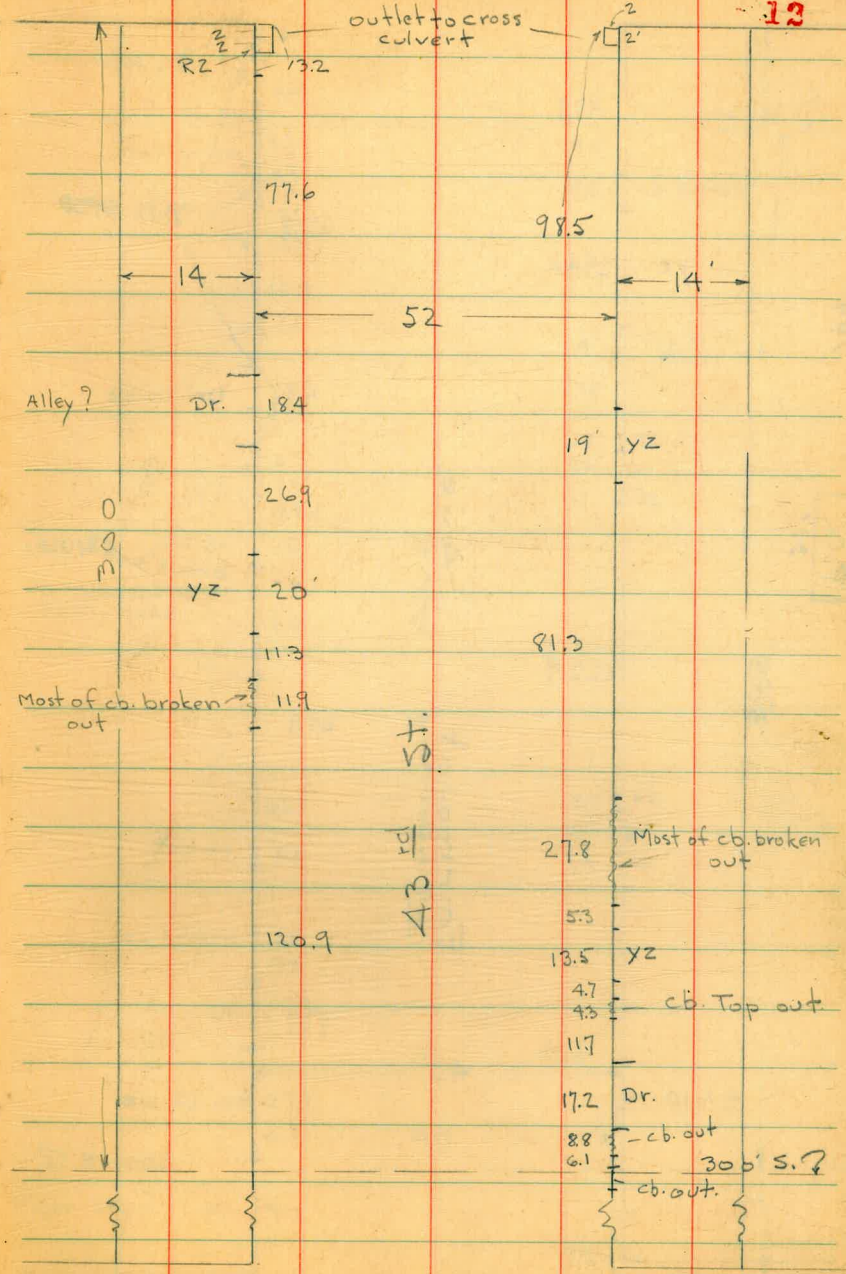
Polk St.



Univ Ave.

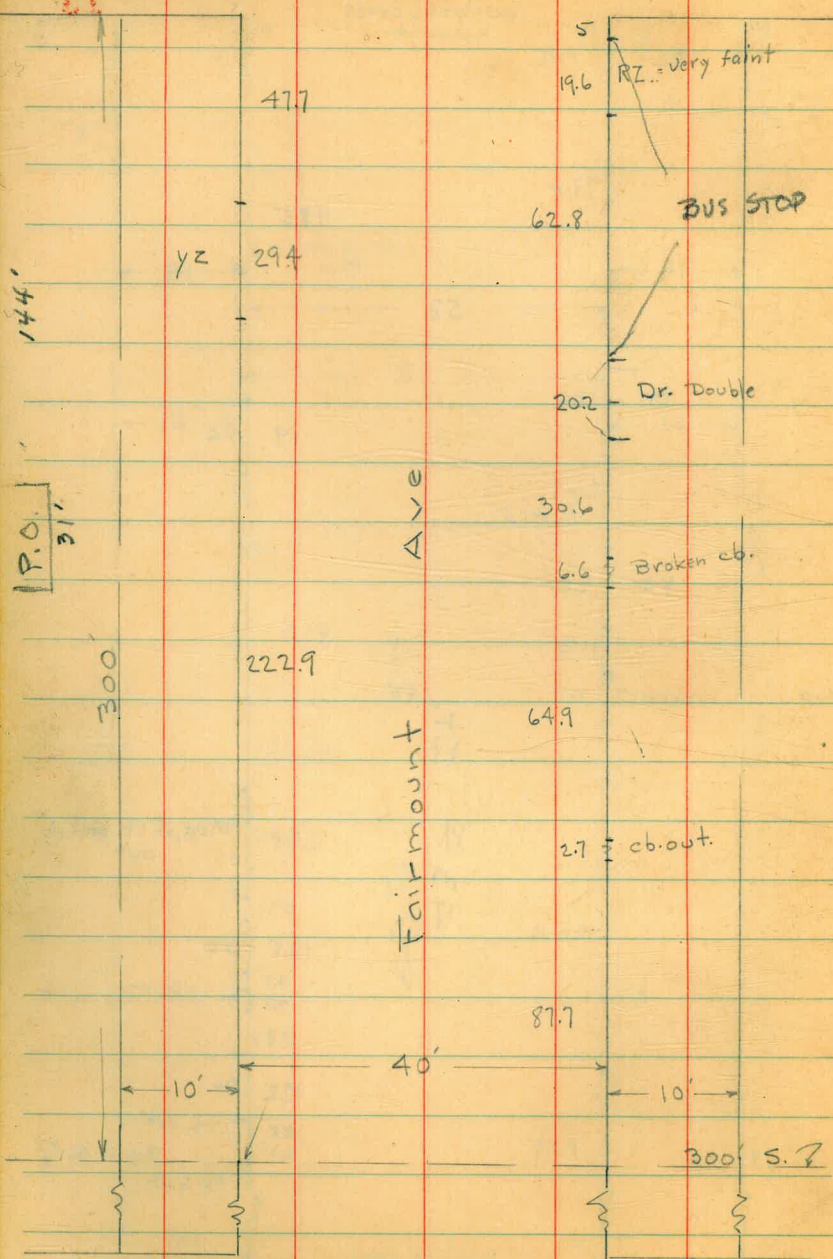
Univ. Ave

13



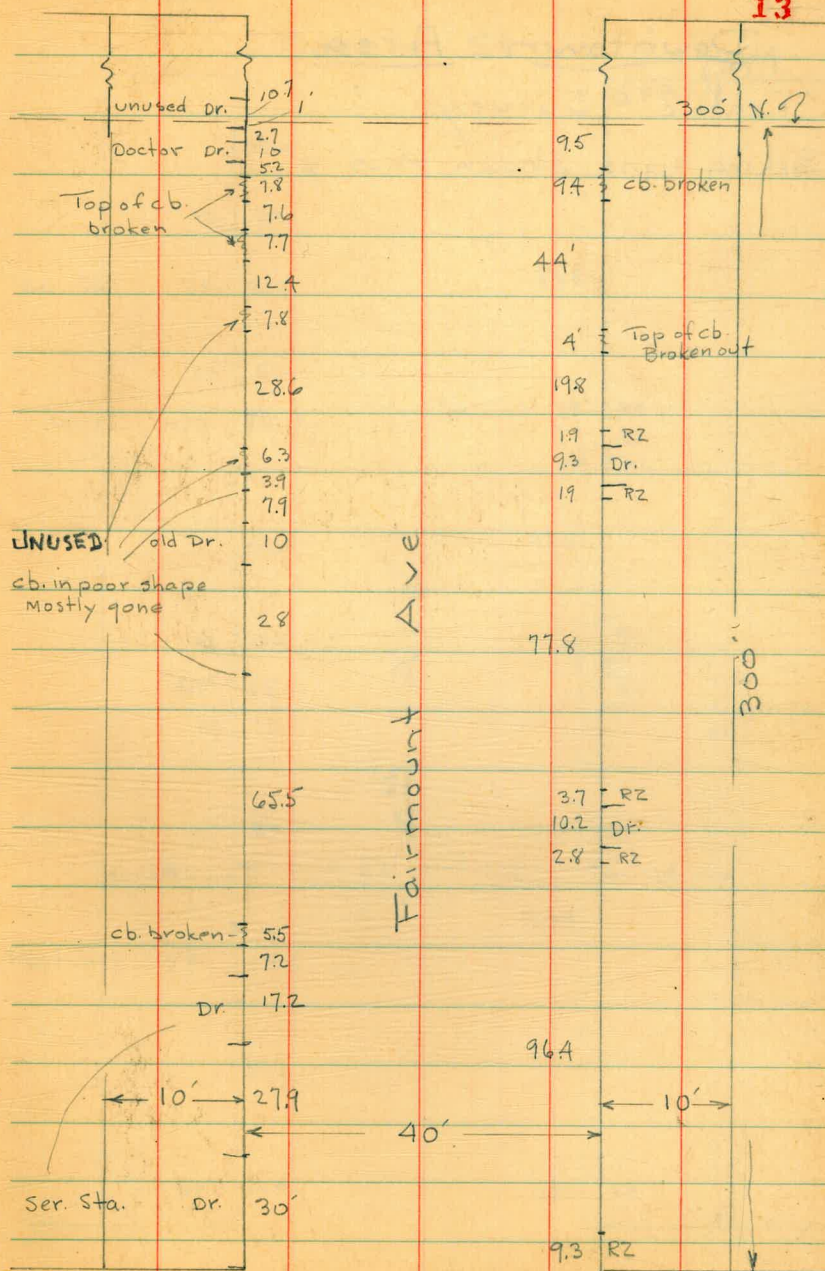
Wightman St.

Univ. Ave.



Wightman St.

Polk St



Univ. Ave

Osborne
Harden
Carey 4-11-46

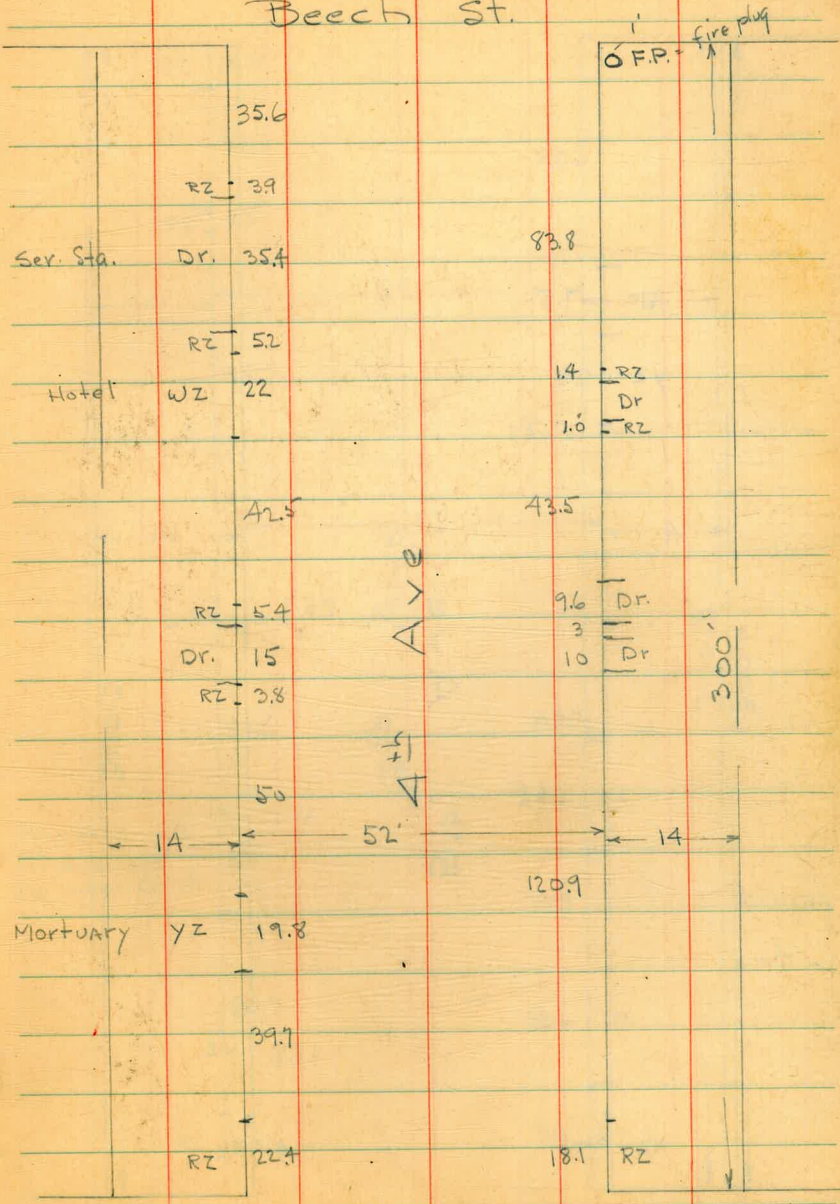
Downtown Area

Traffic Survey

Parking signs shown thus *

14

Beech St.

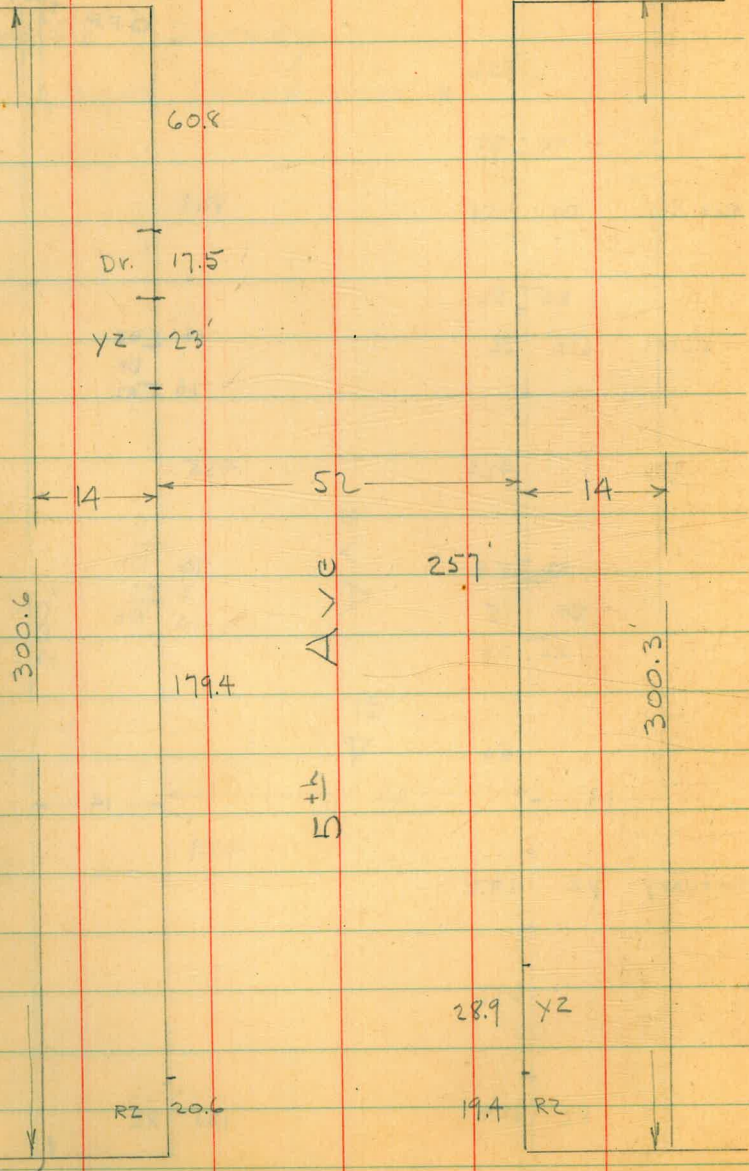


Ash St.

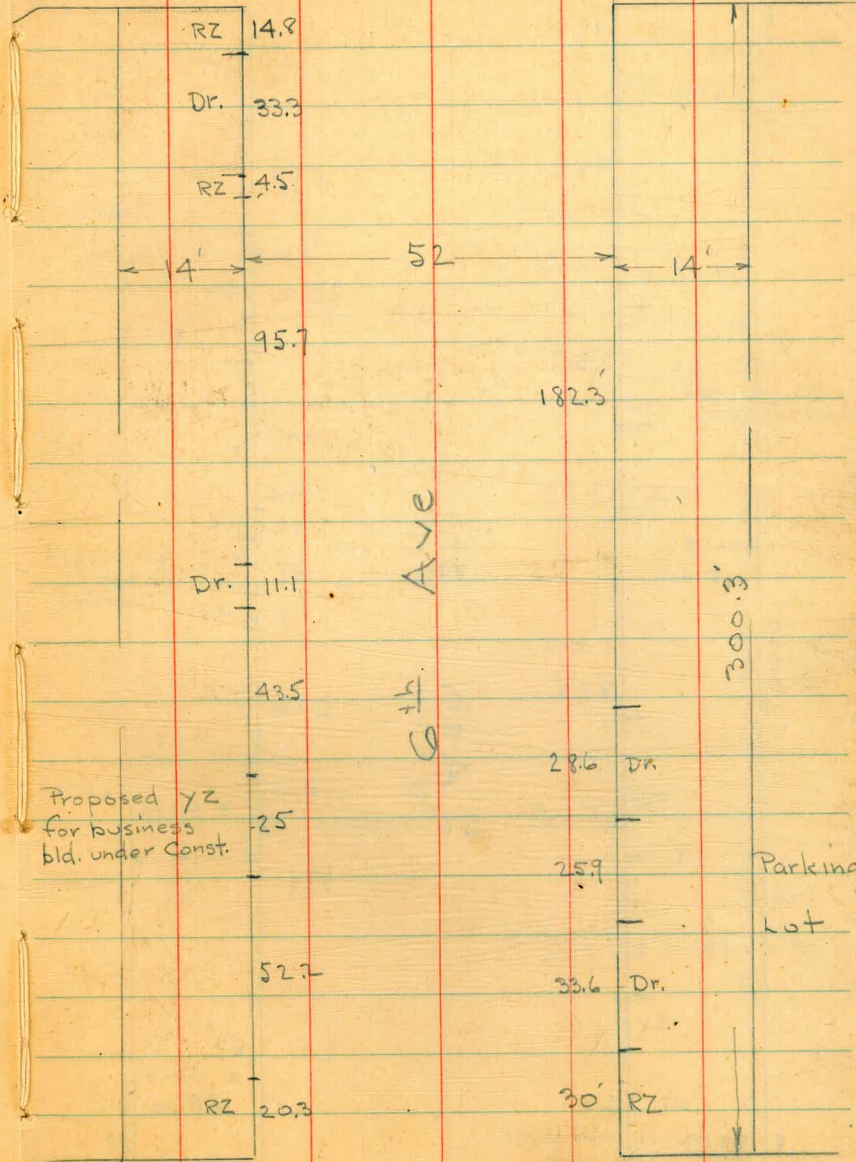
Beech St.

Beech St.

15



Ash St.



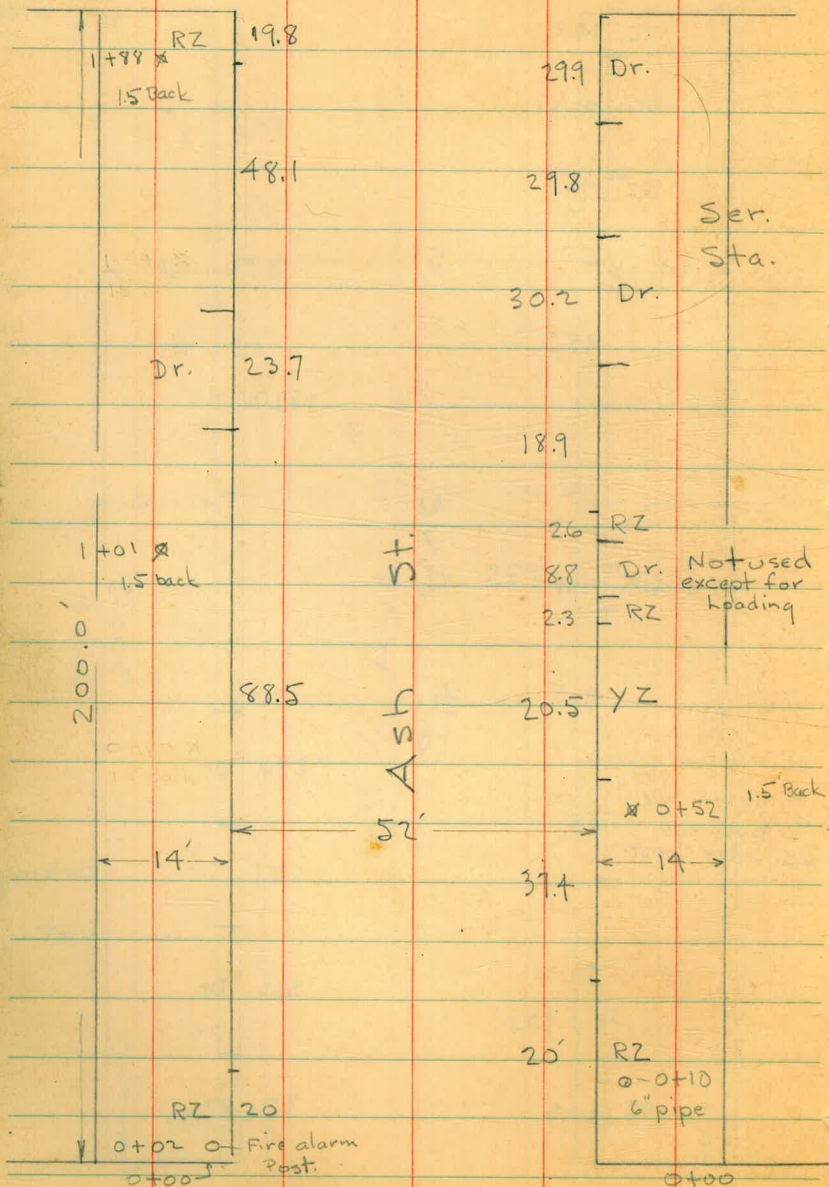
Ash St.

6th Ave

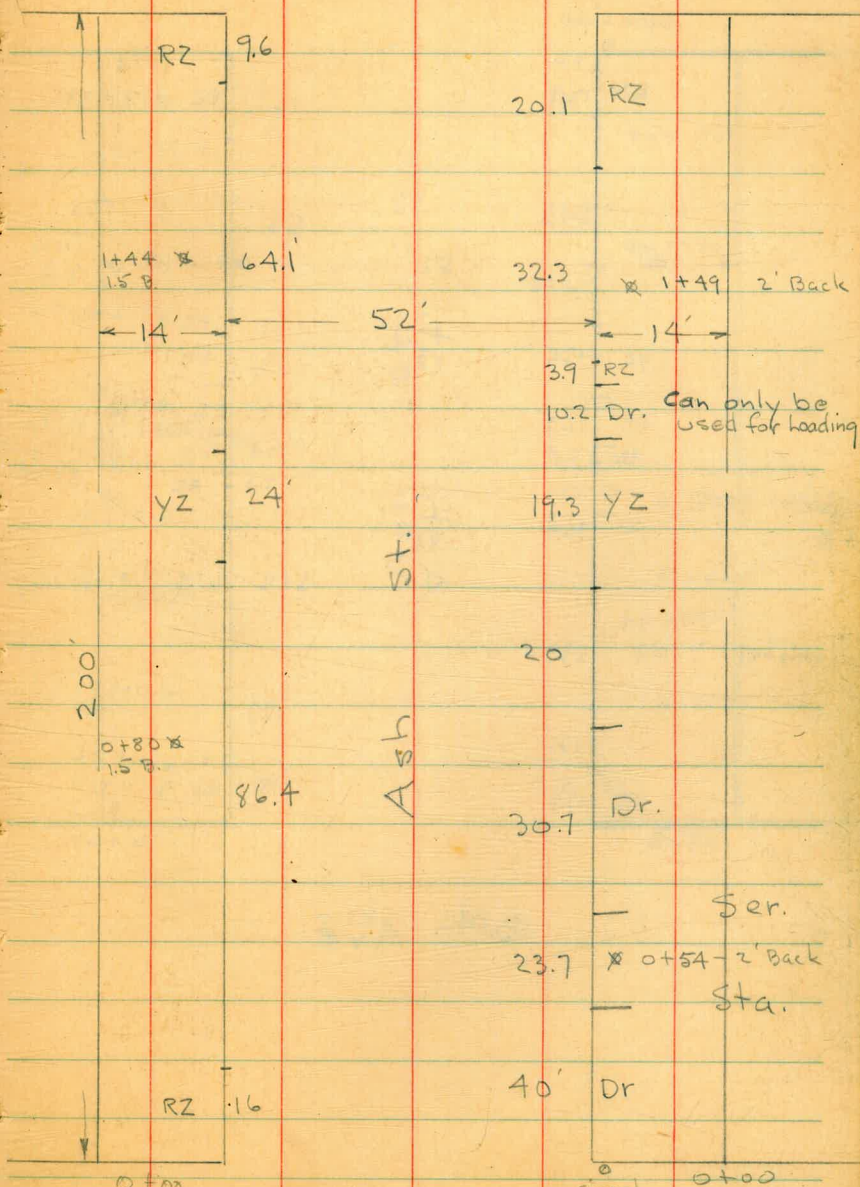
4-12-46

5th Ave

16



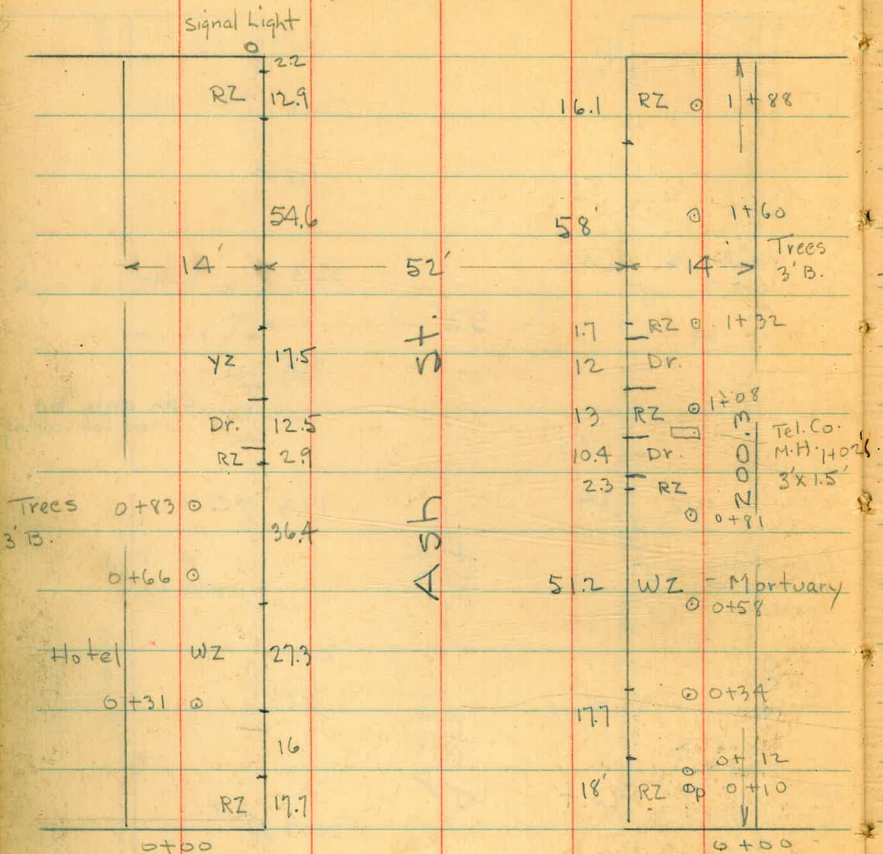
5th Ave



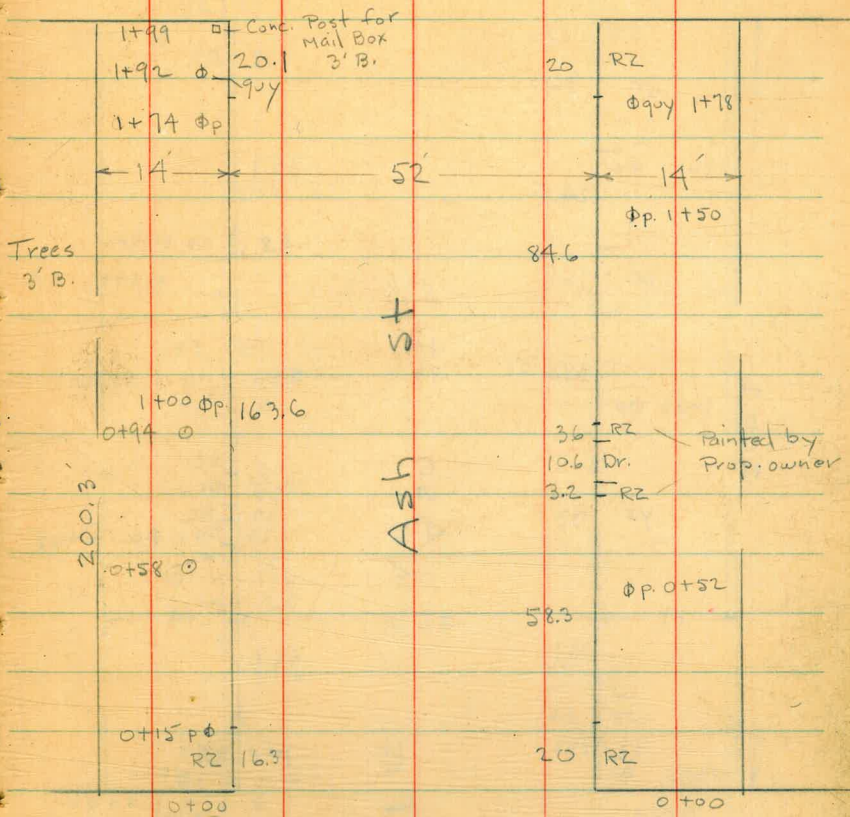
4th Ave

4th Ave

3rd Ave



3rd Ave



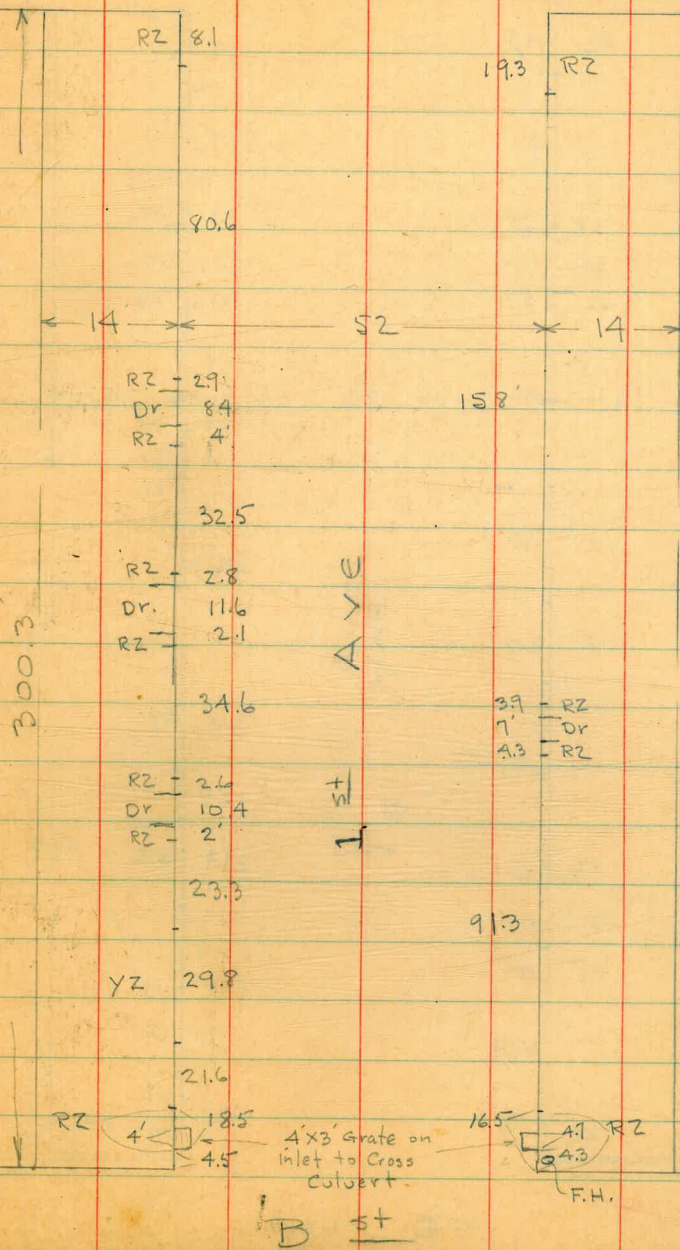
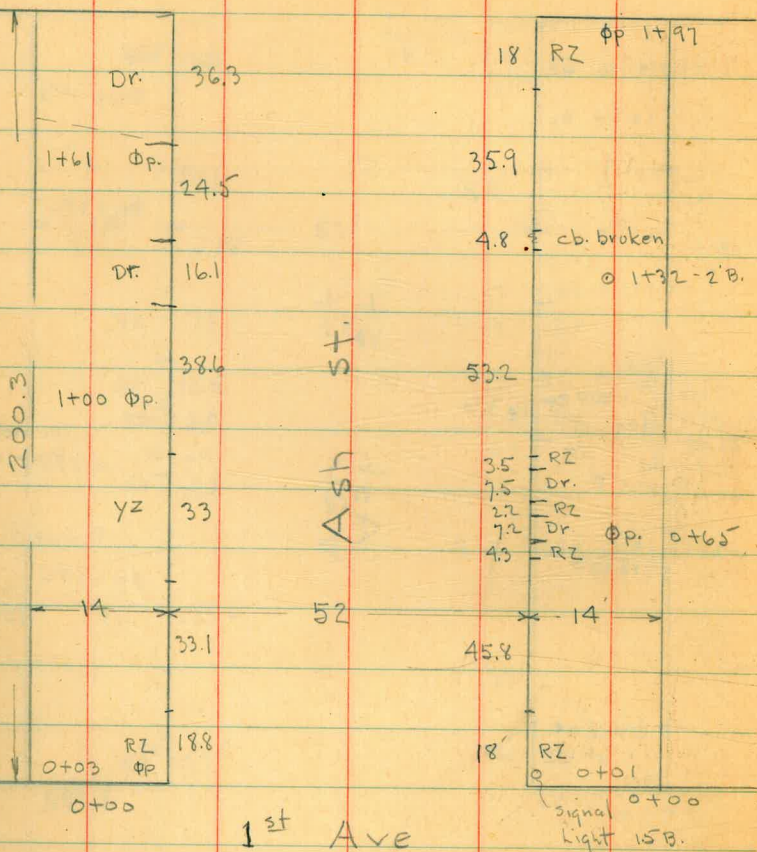
2nd Ave

1837
163
2000

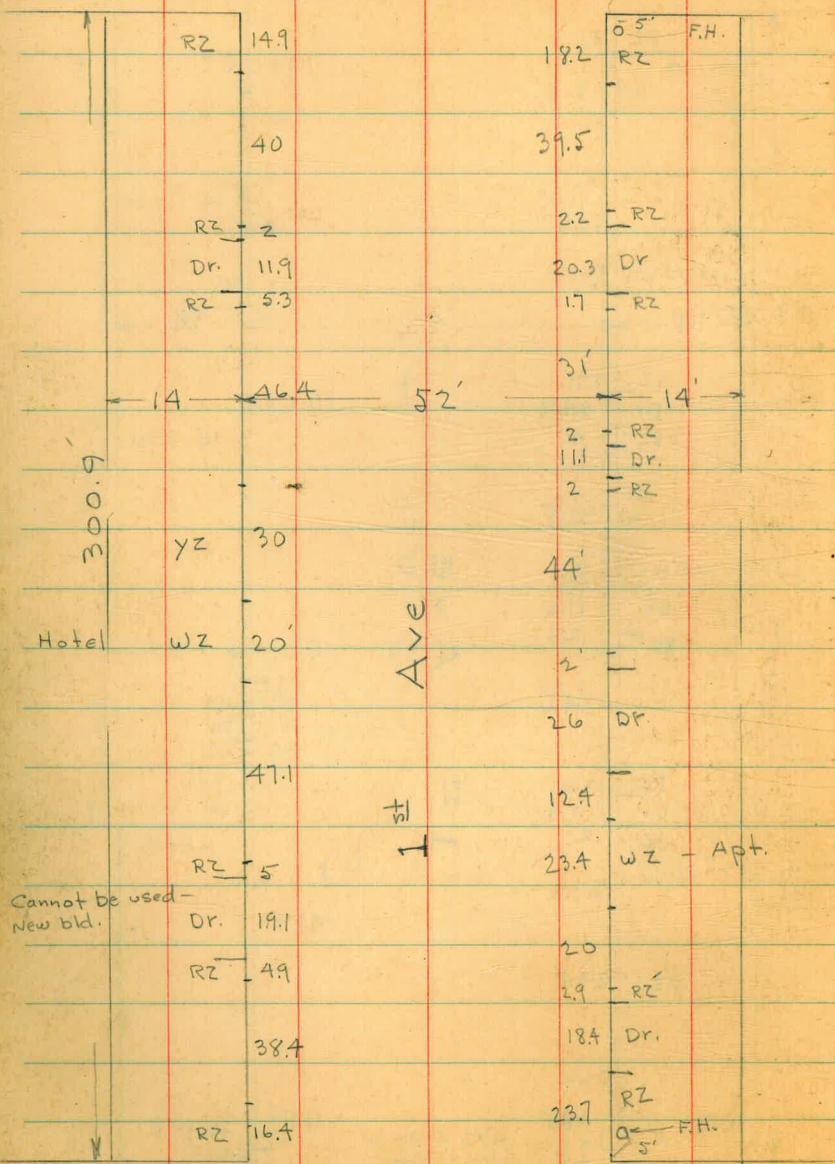
2nd Ave

18

A St.

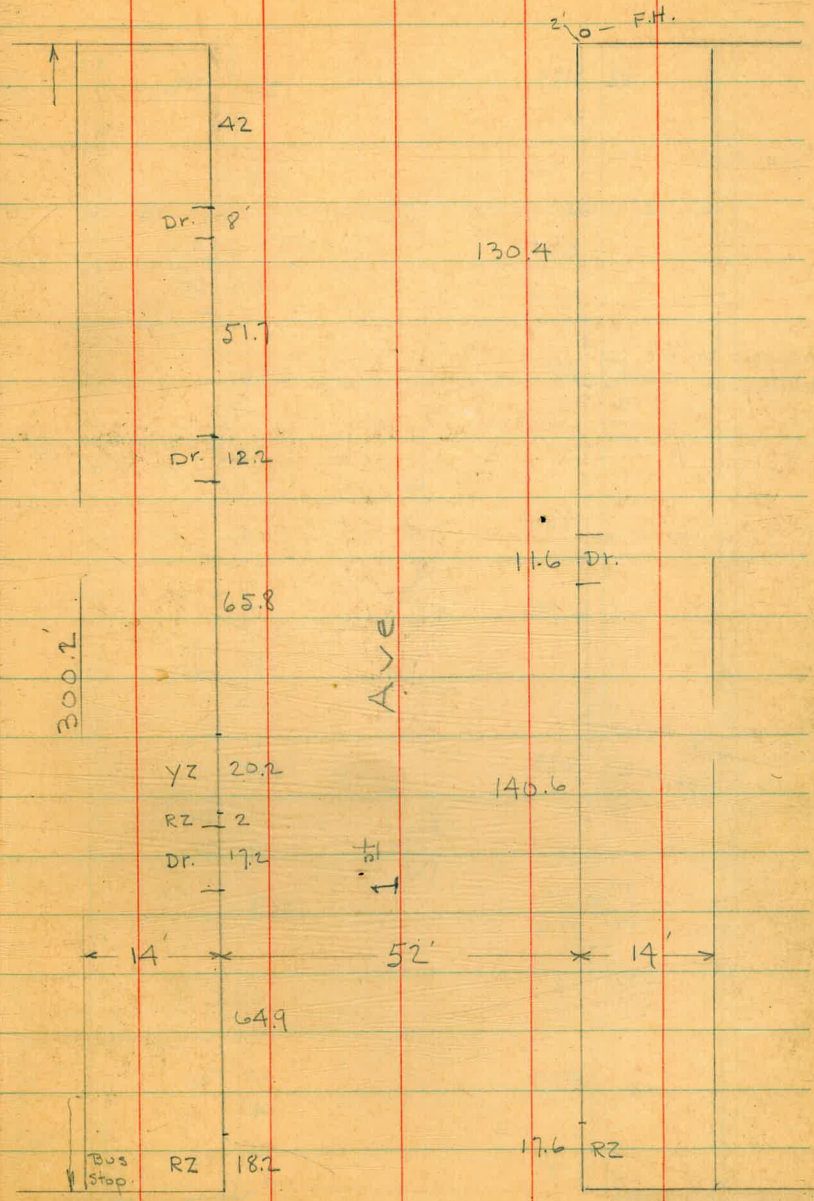


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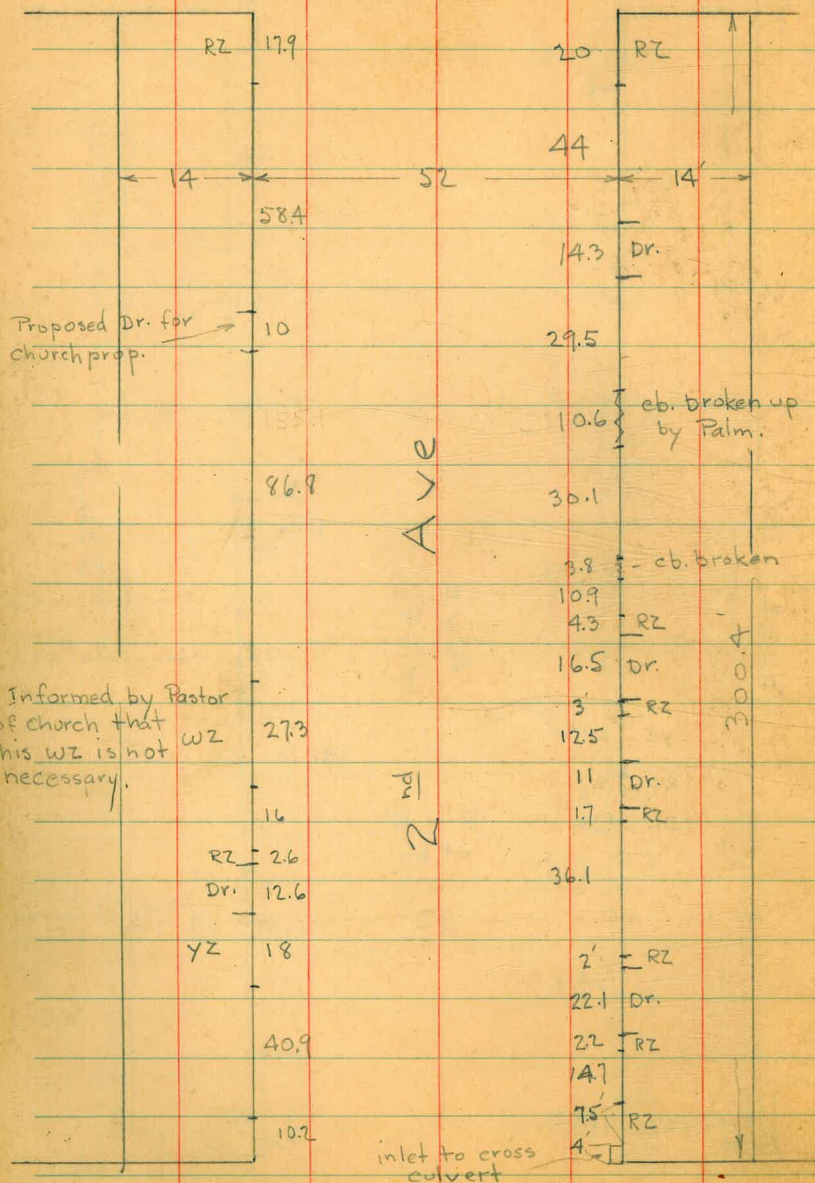


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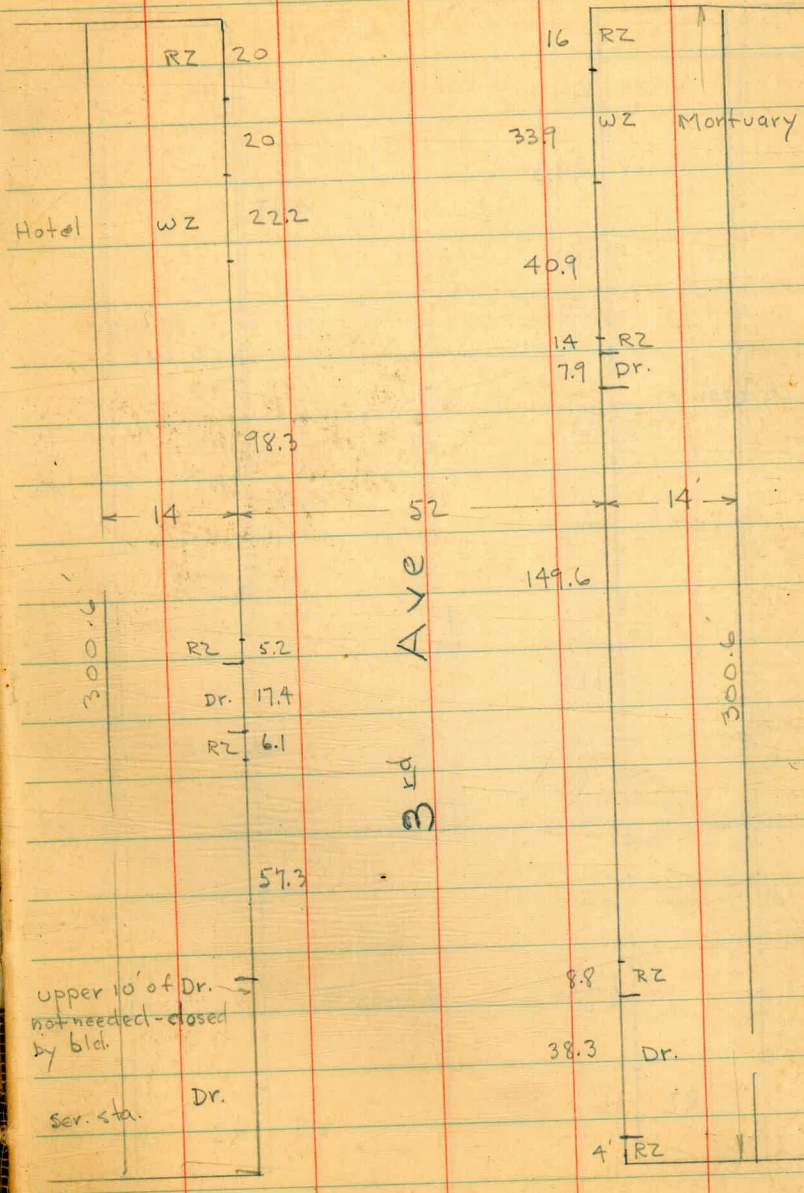
Beech St.



Ash St.

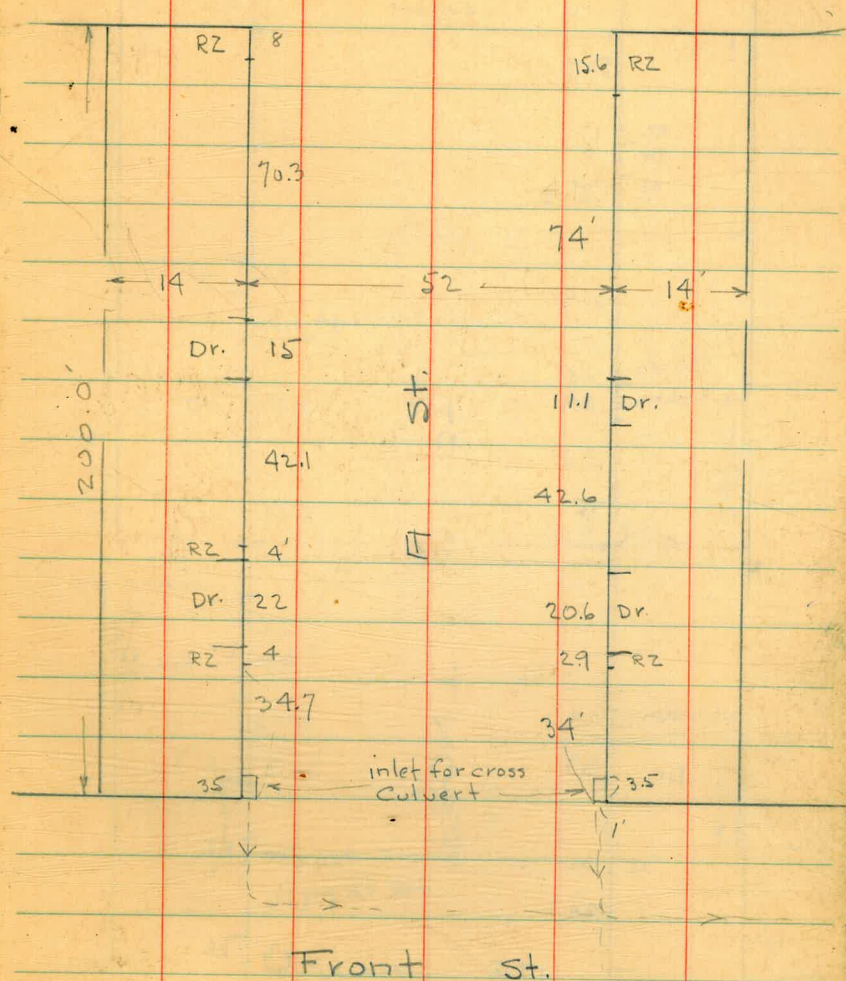
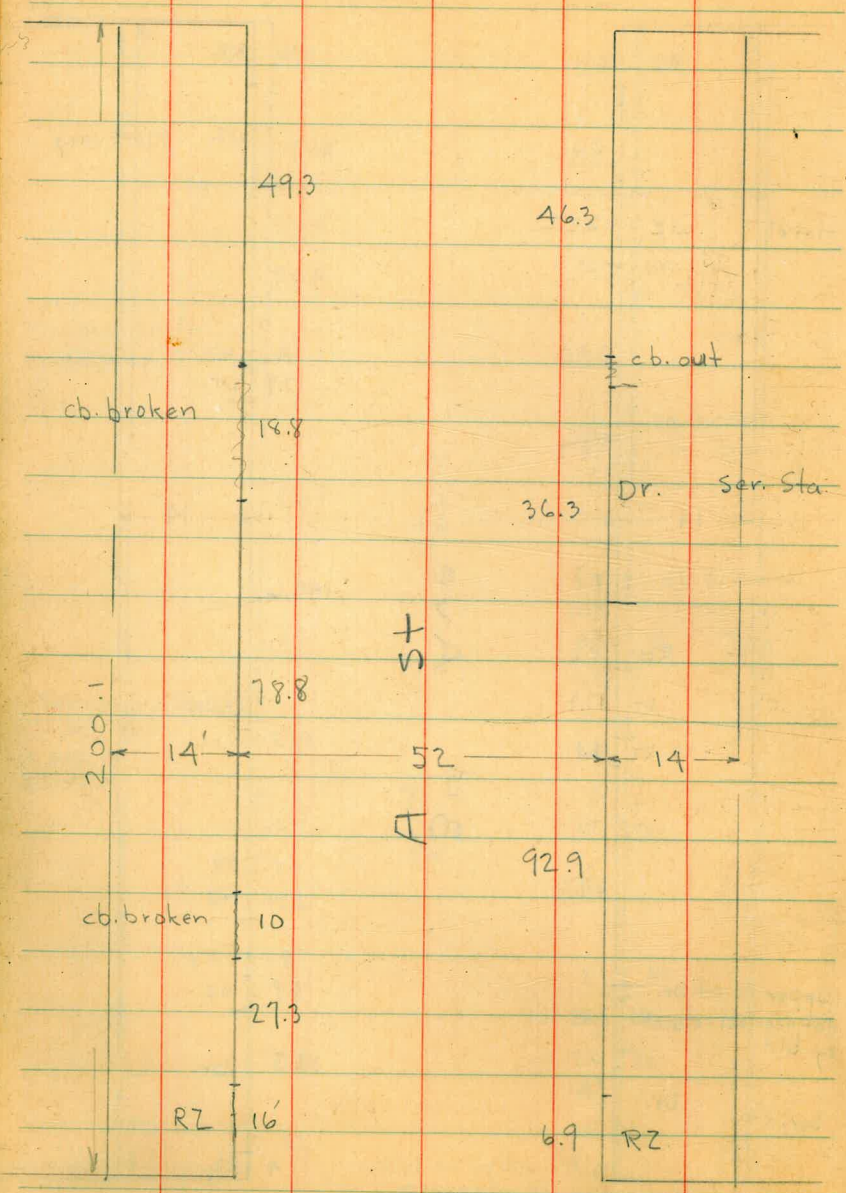


Informed by Pastor of church that this WZ is not necessary.



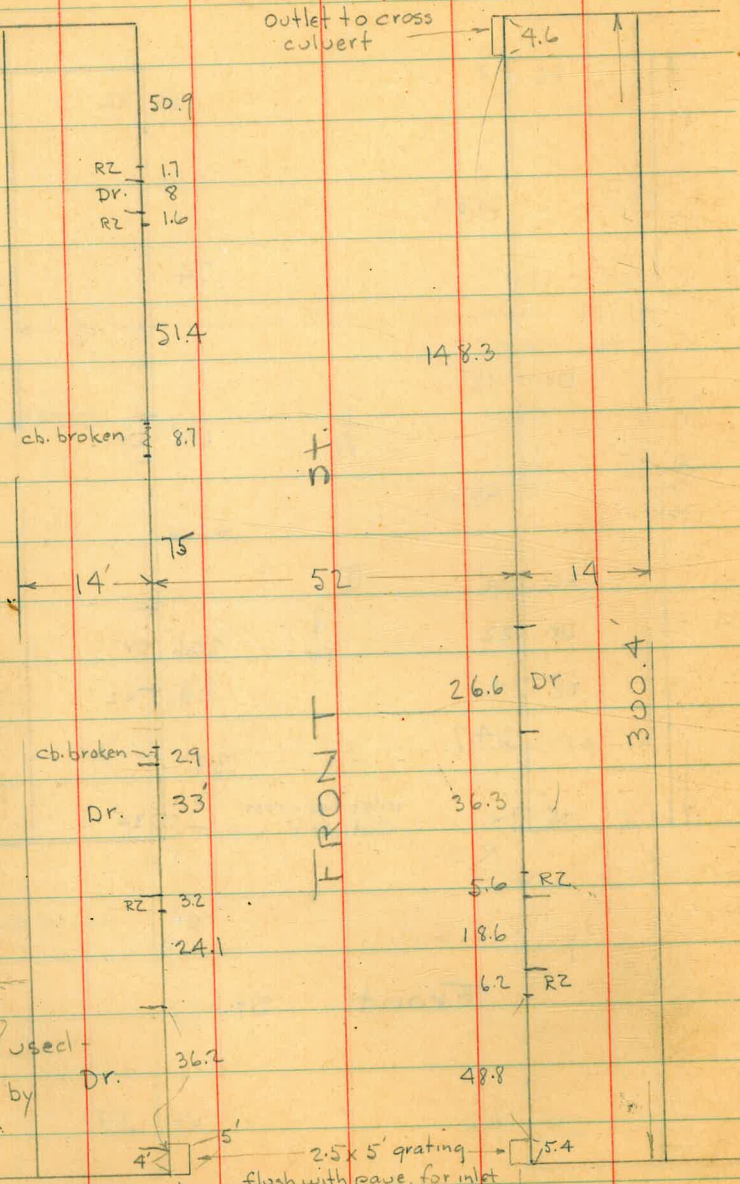
upper 10' of Dr. not needed - closed by bld.

Ser. sta. Dr.



A St.

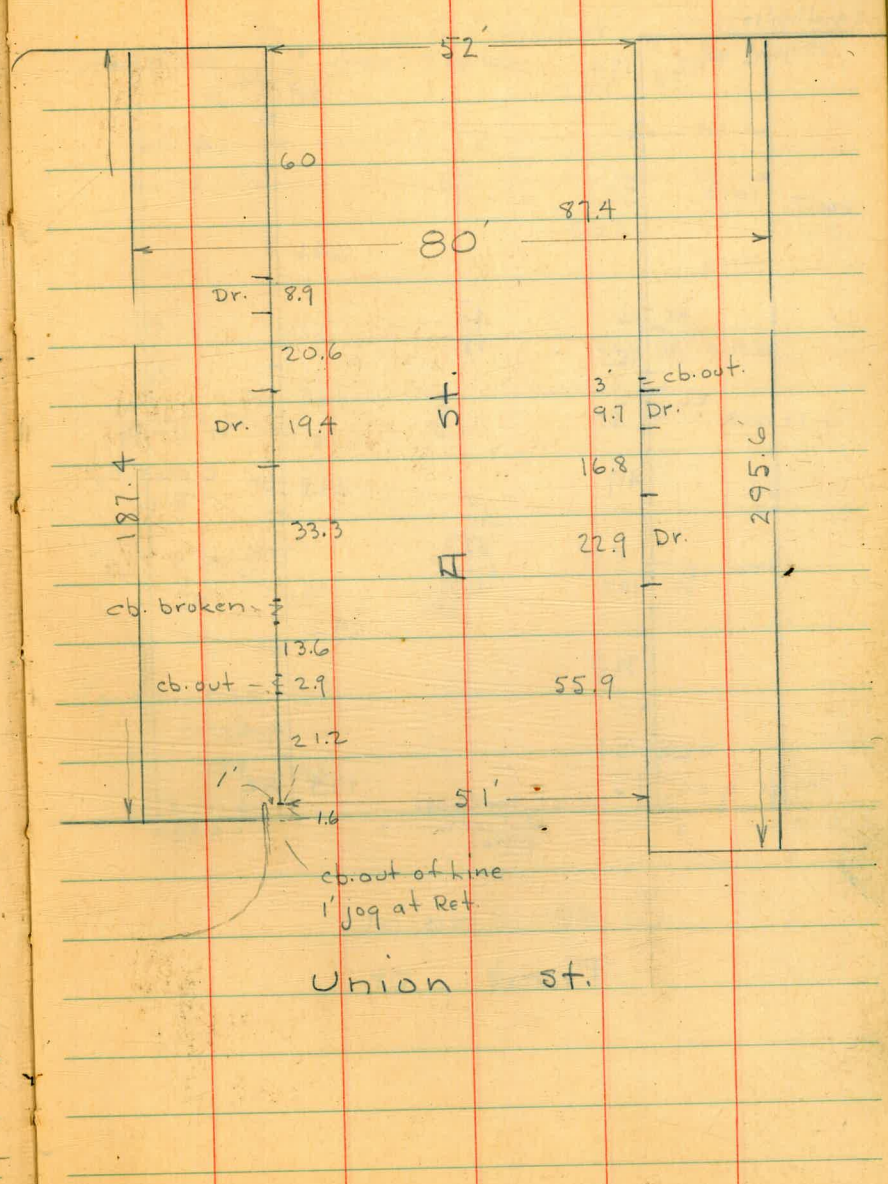
outlet to cross
culvert



FRONT

B St.

Front St.

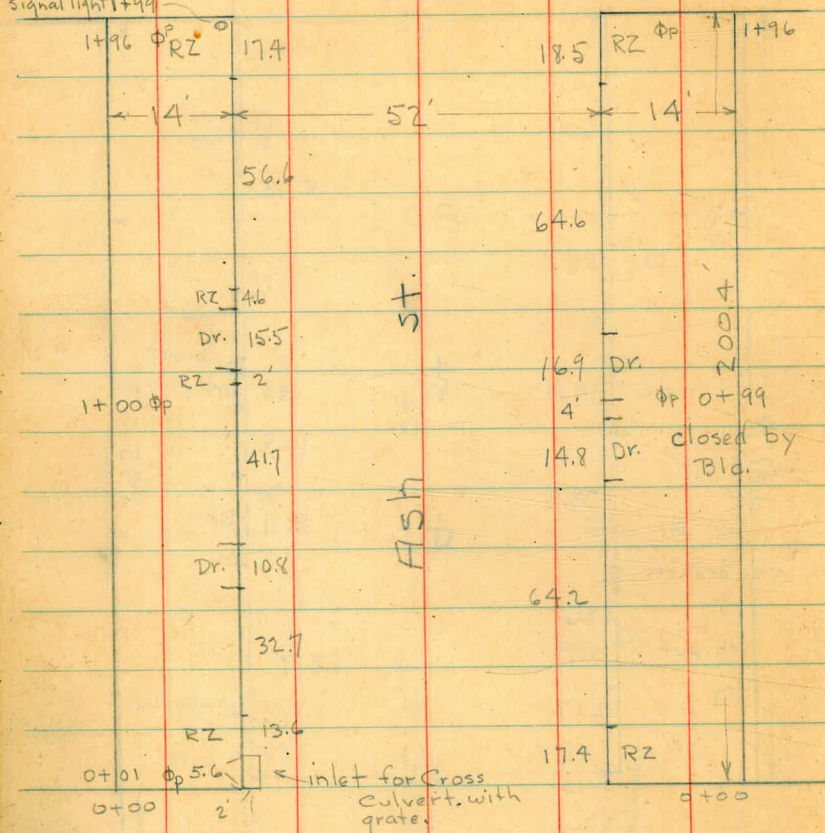


FRONT

Union St.

1st Ave

signal light 1+99

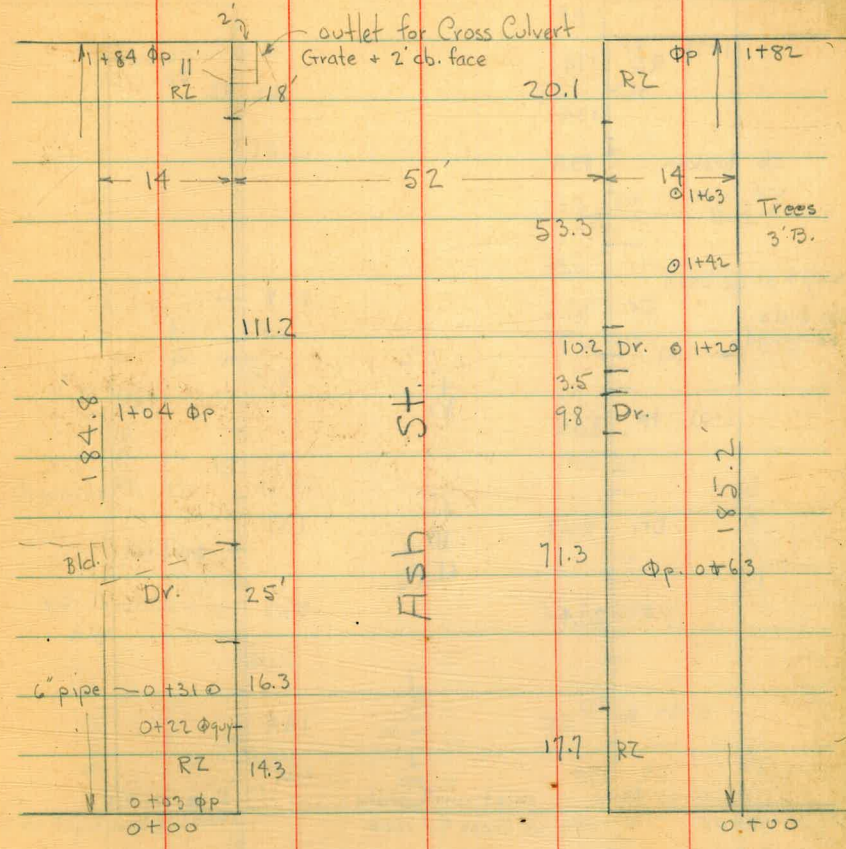


Front St.

Flow 2

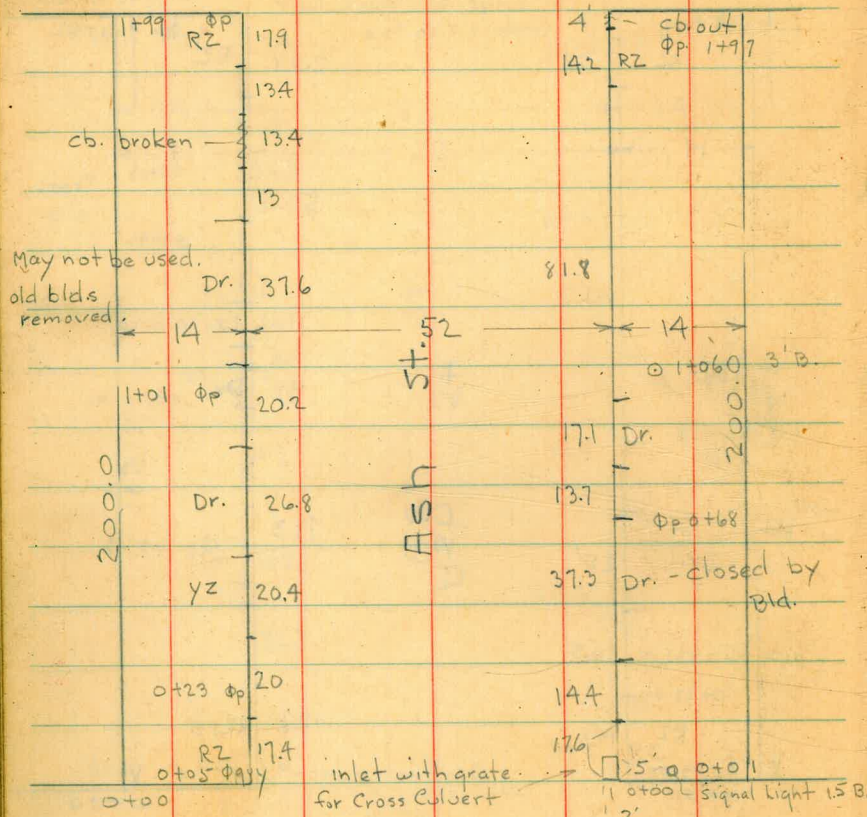
Front St.

23



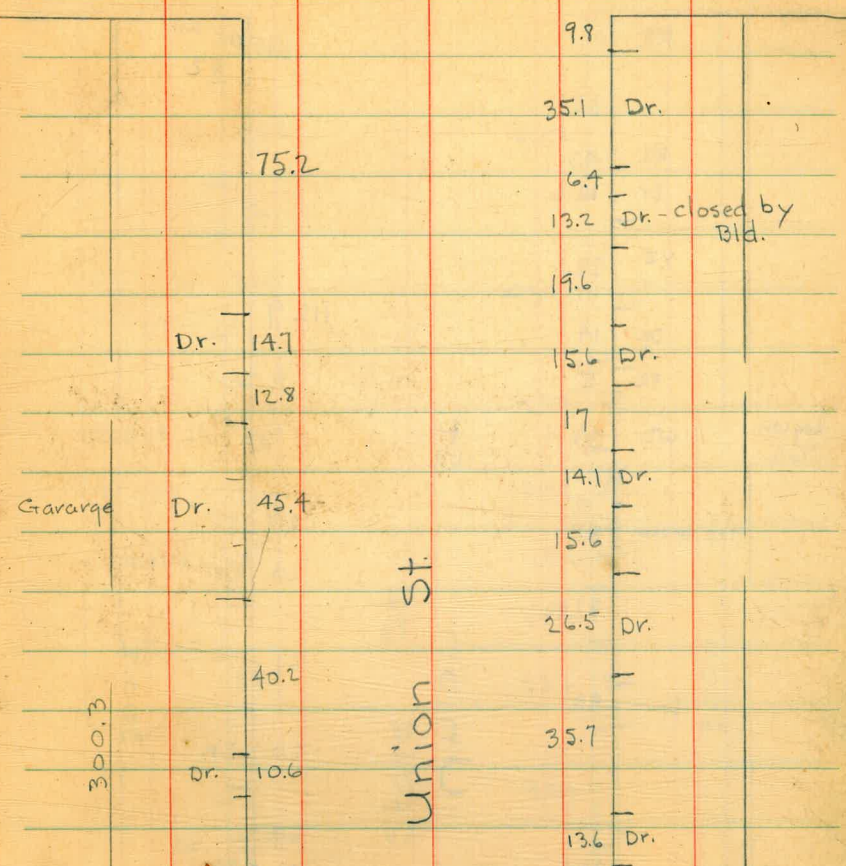
Union St.

Union st.

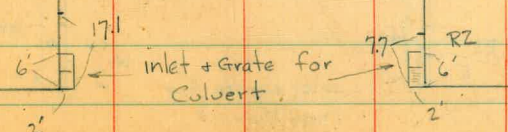


State st.

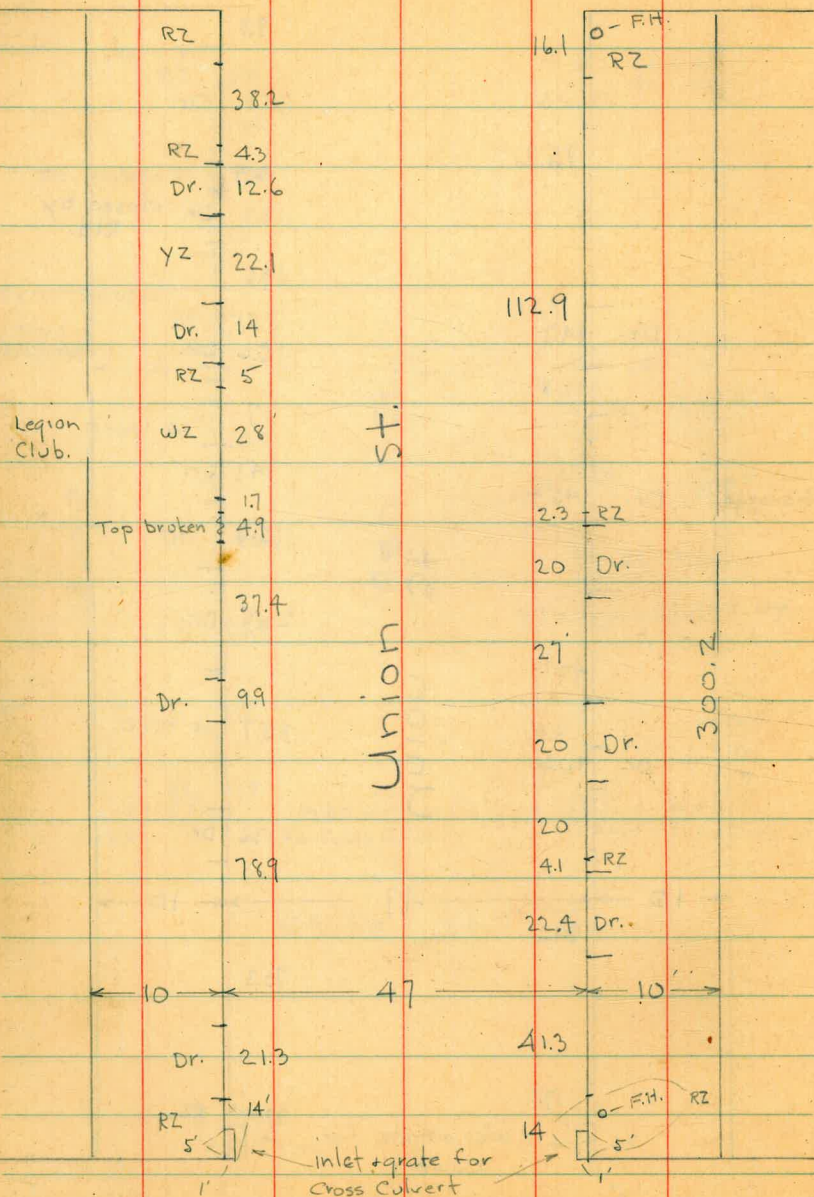
A St.



Union st.



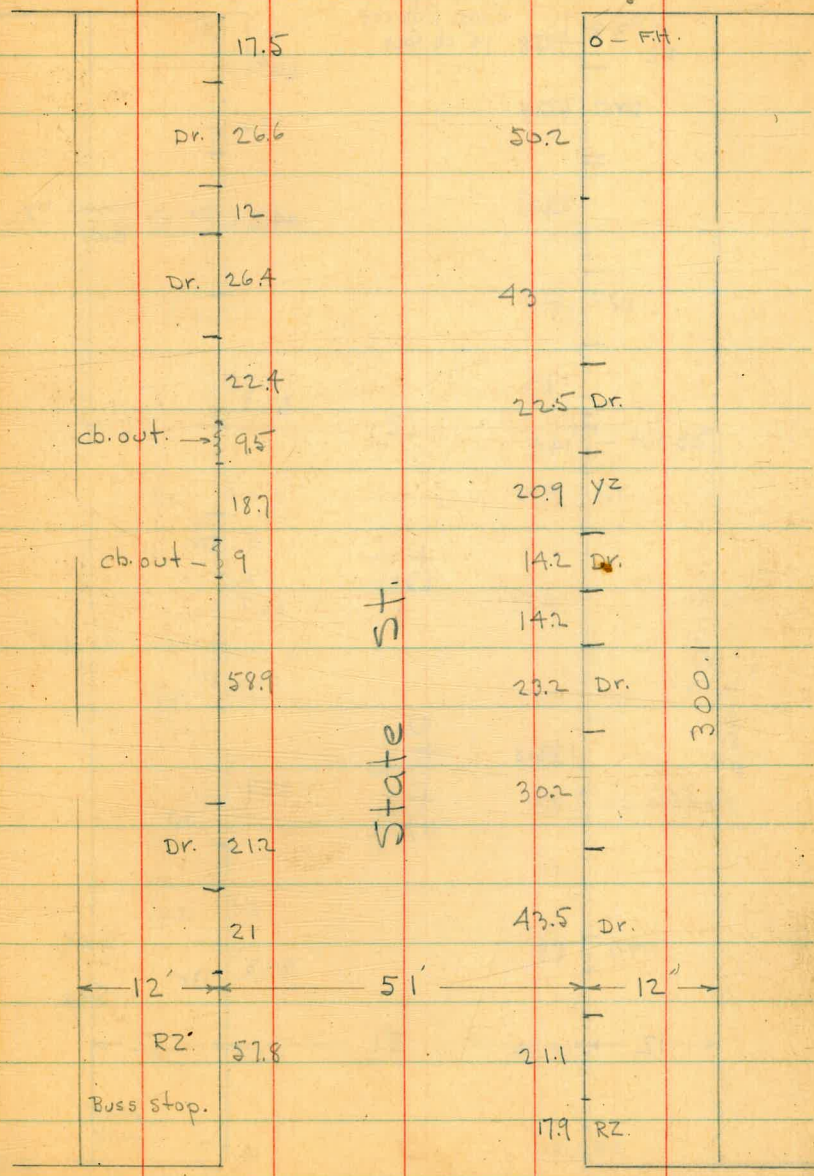
B St.



St.

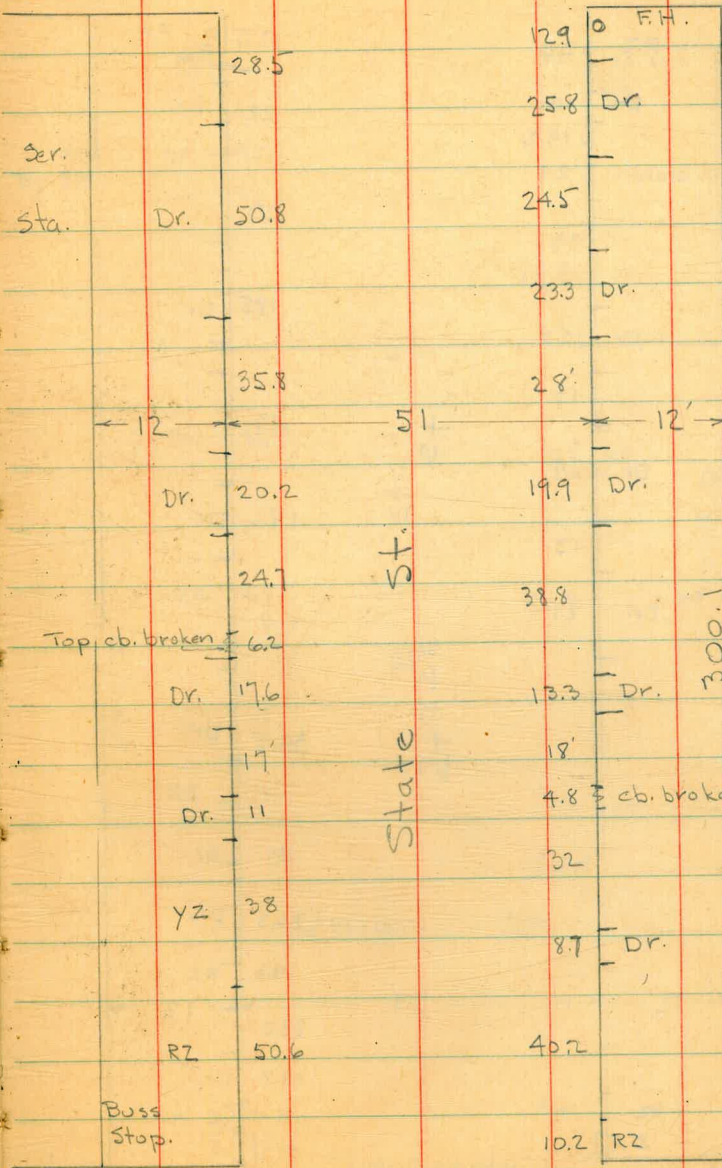
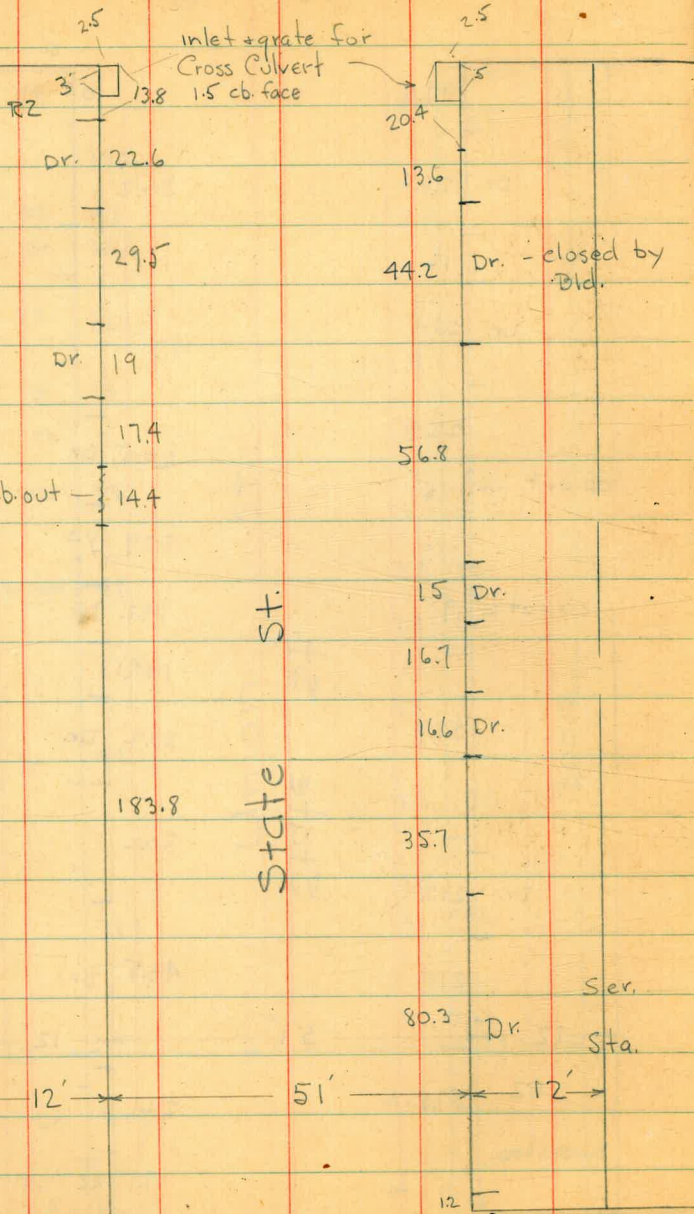
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C St.

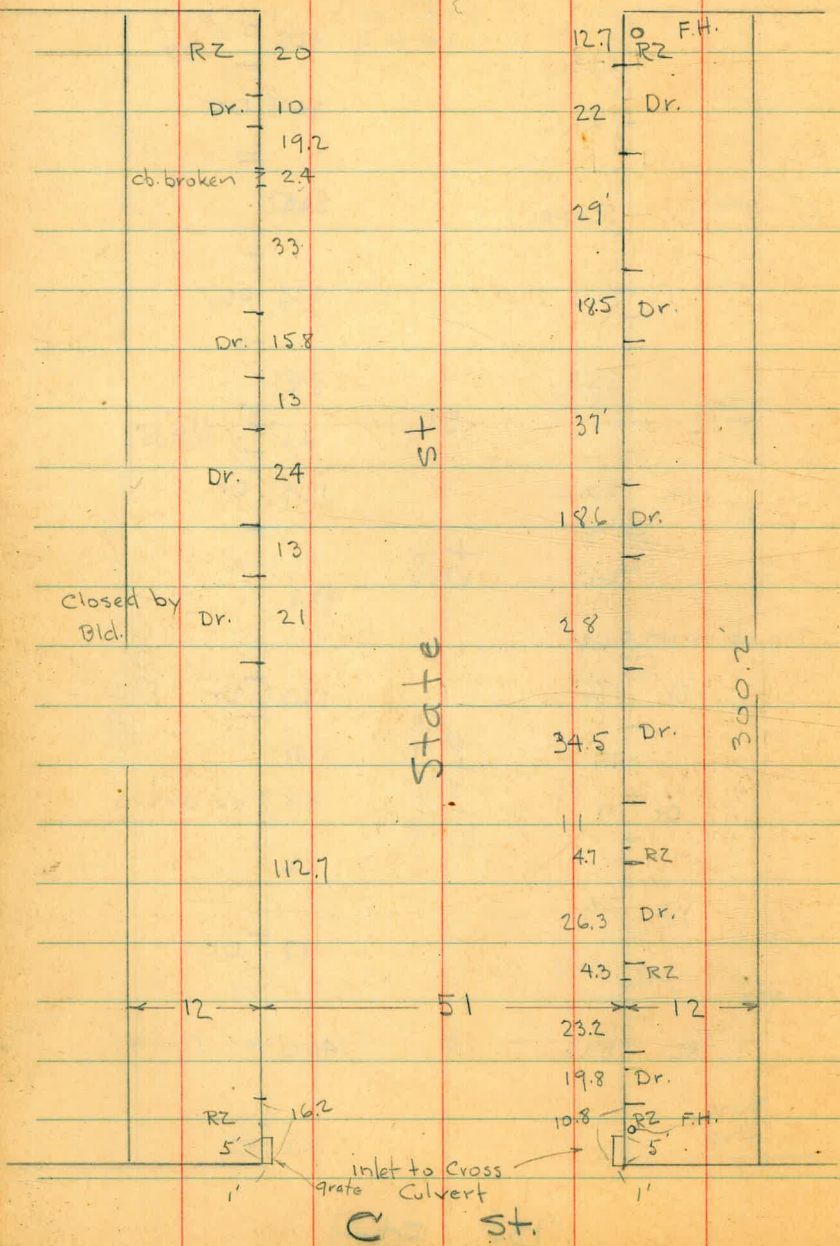


State St.

Ash St.

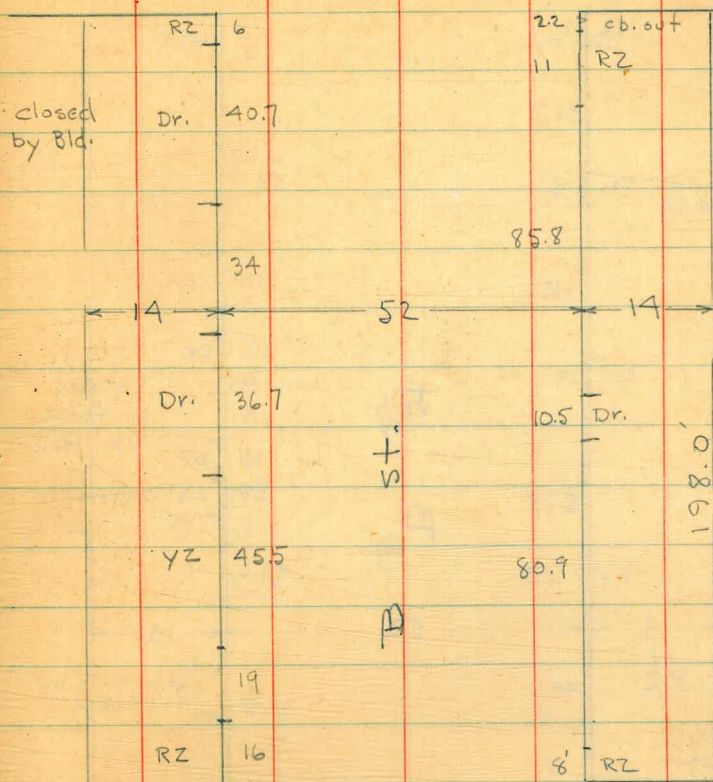


B St.



Front St.

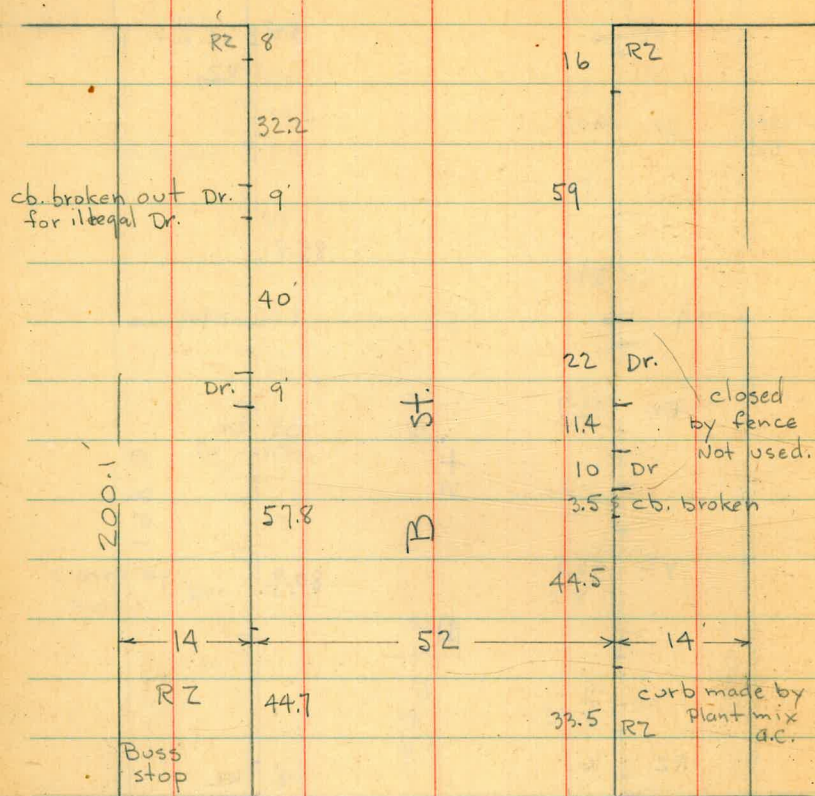
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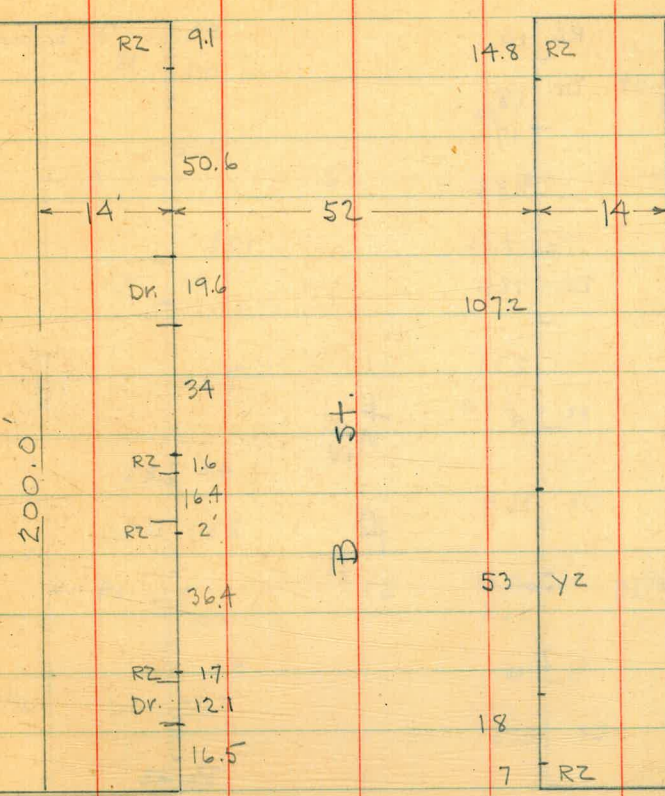
6.8
7.7
8.5

Union St.

State St.

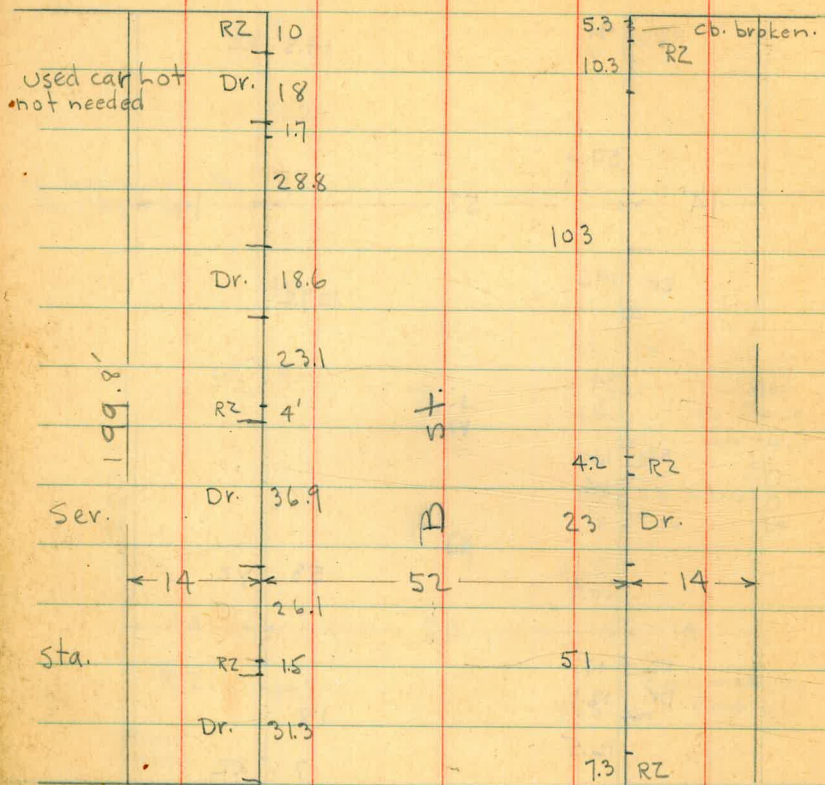


State St.



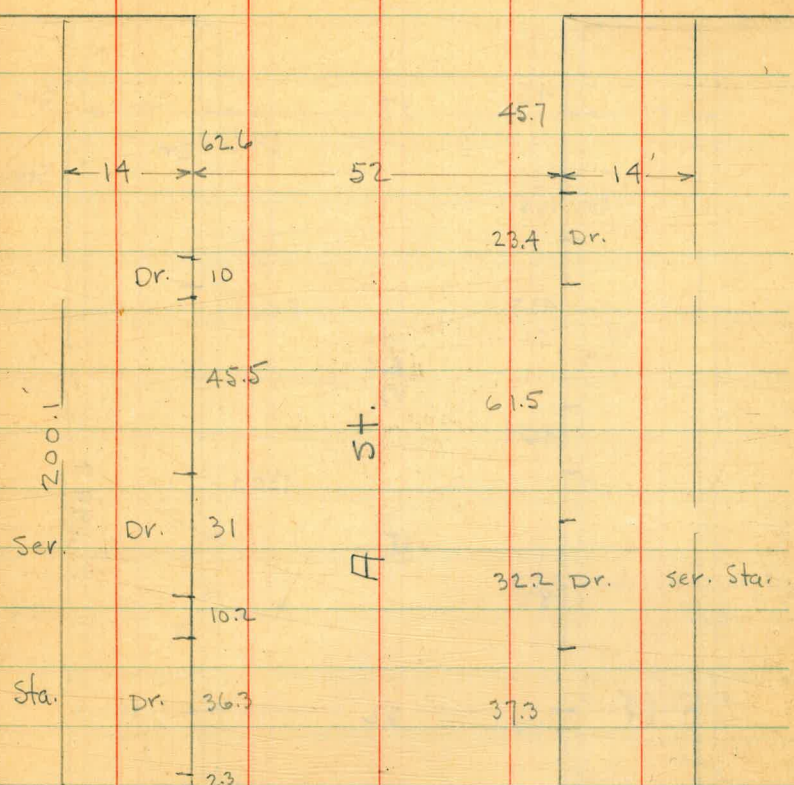
Columbia St.

Columbia St.



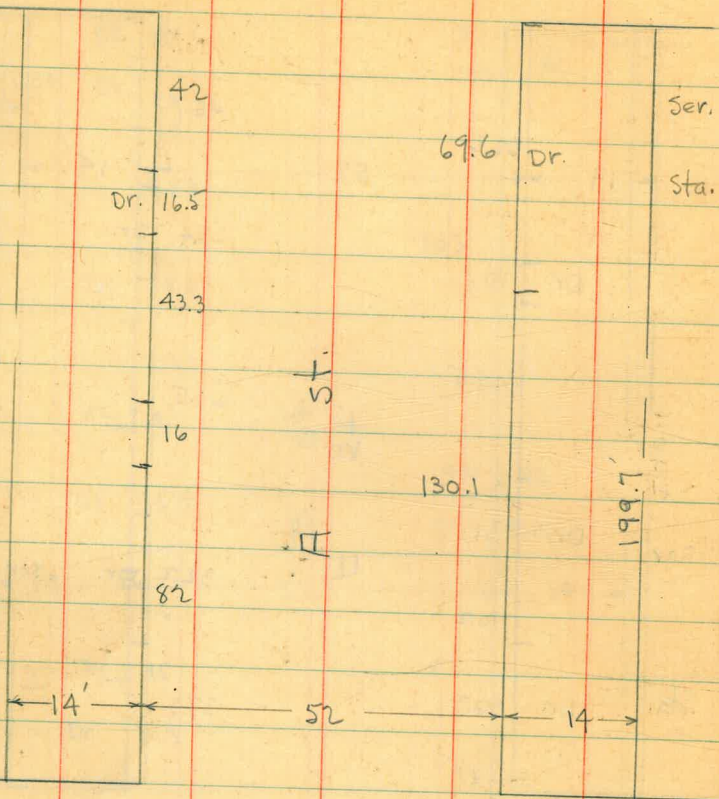
India St.

Union St.



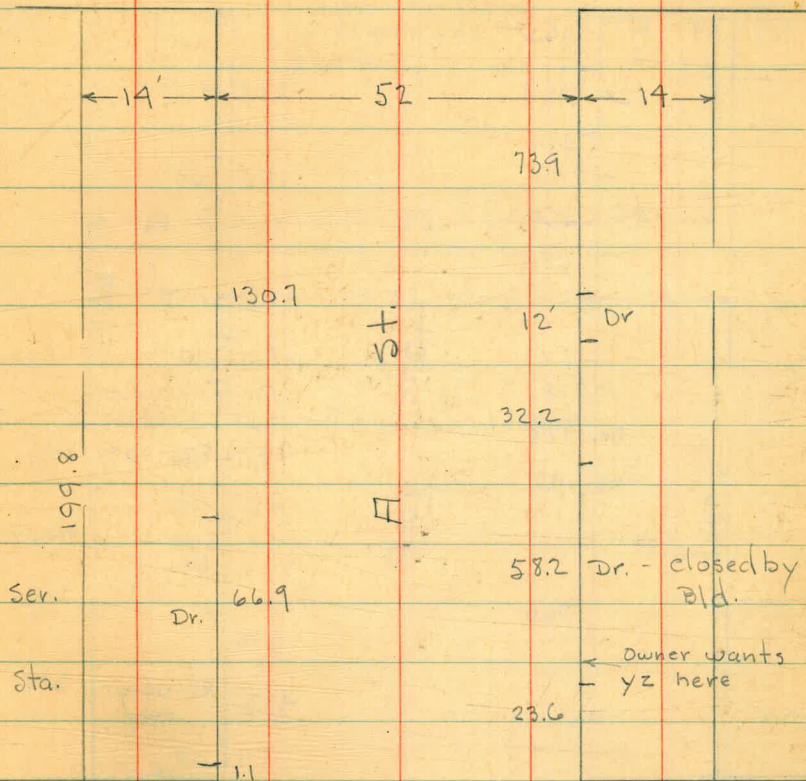
State

State St.



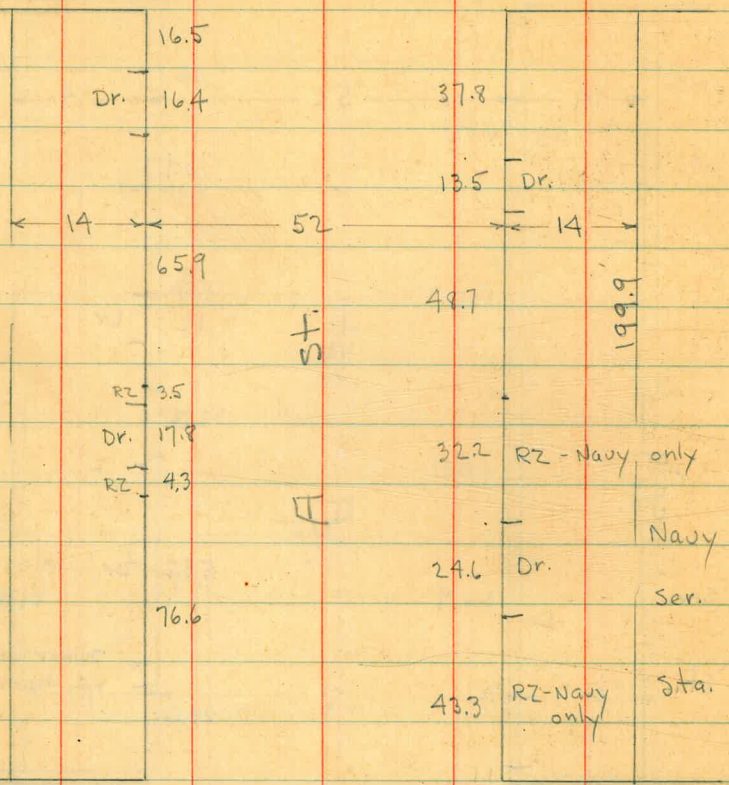
Columbia St.

Columbia St.



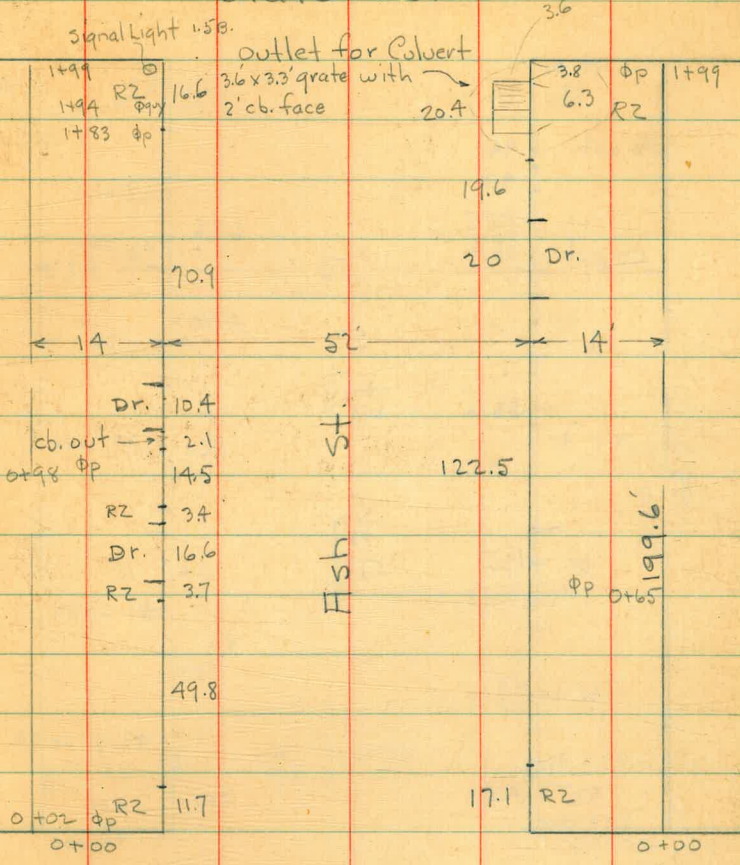
India St.

India St.



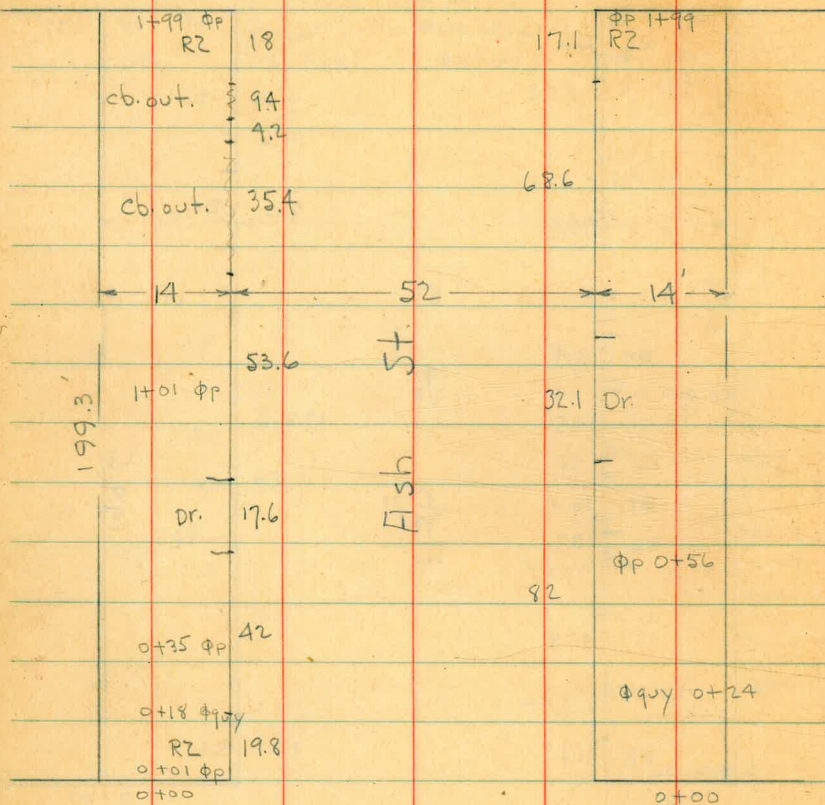
Kettner Blvd.

State St.



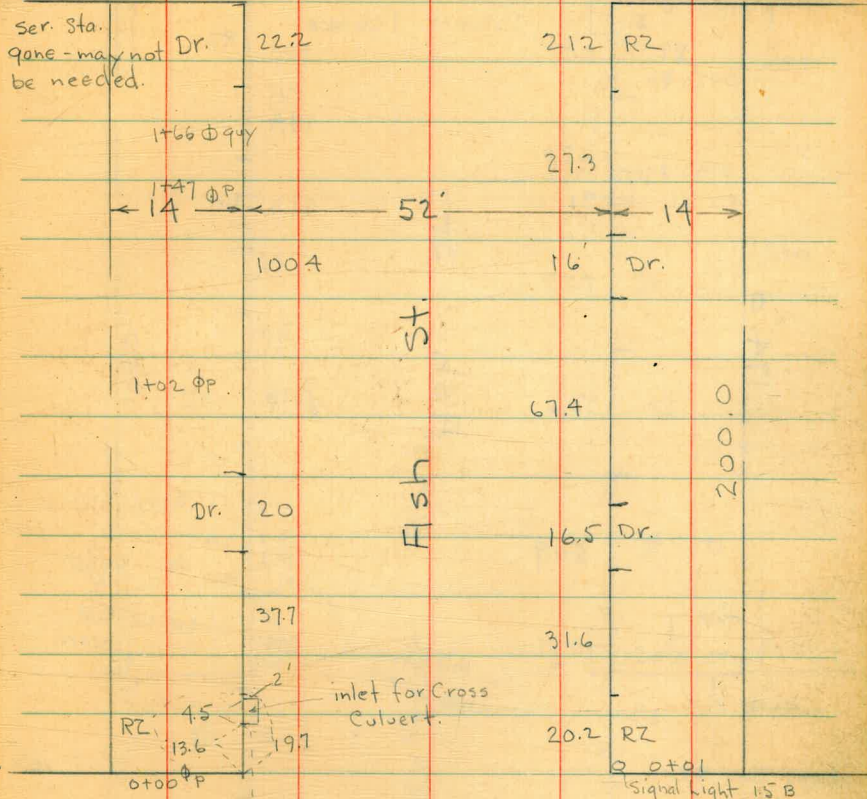
Columbia St.

Columbia St.

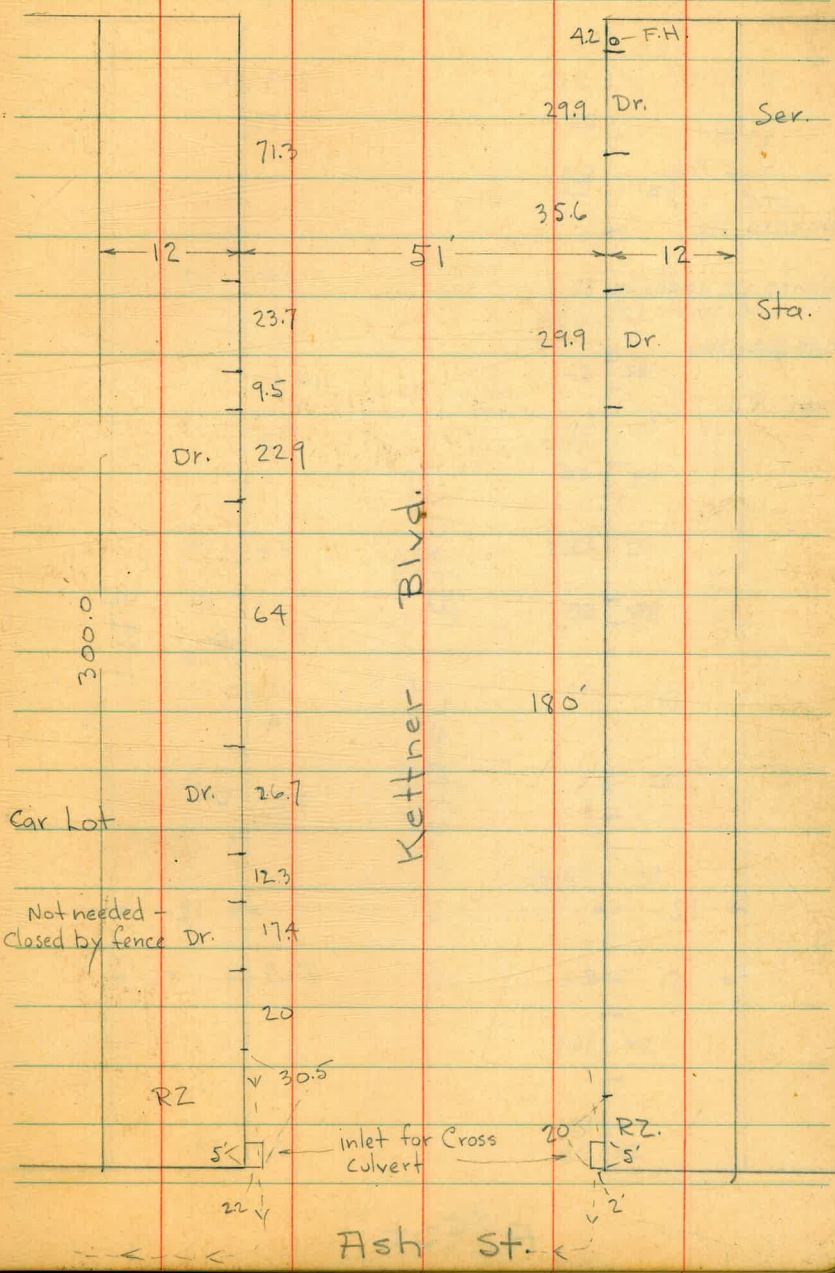
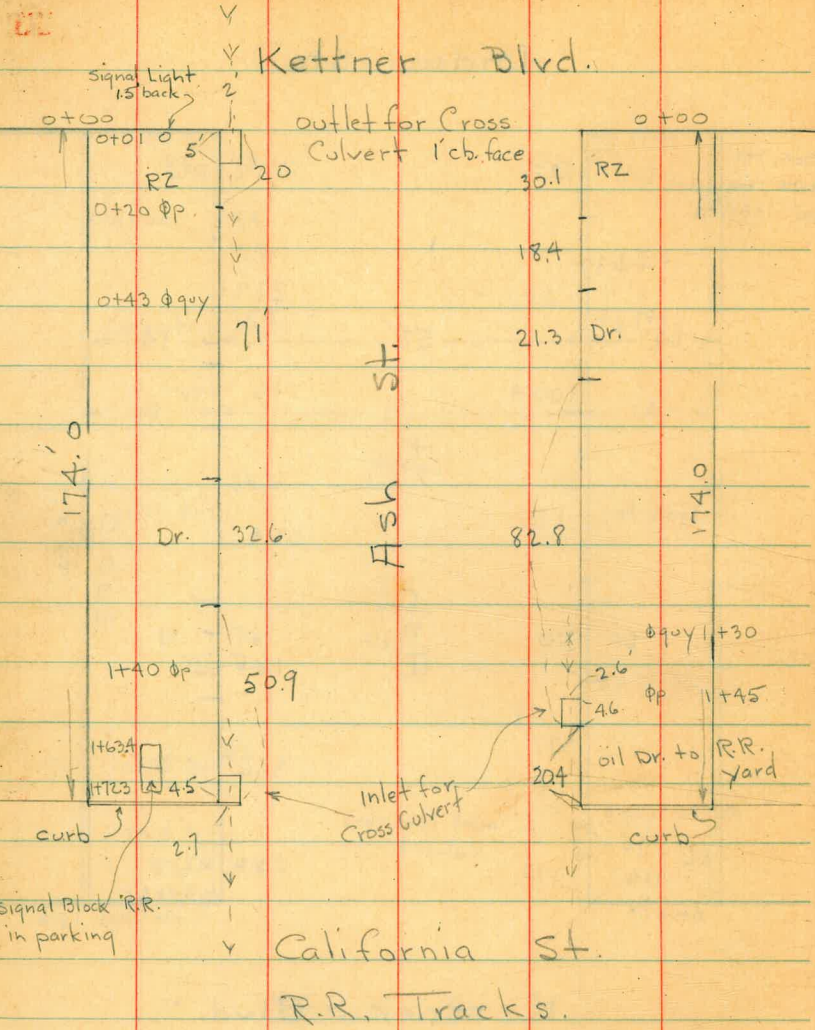


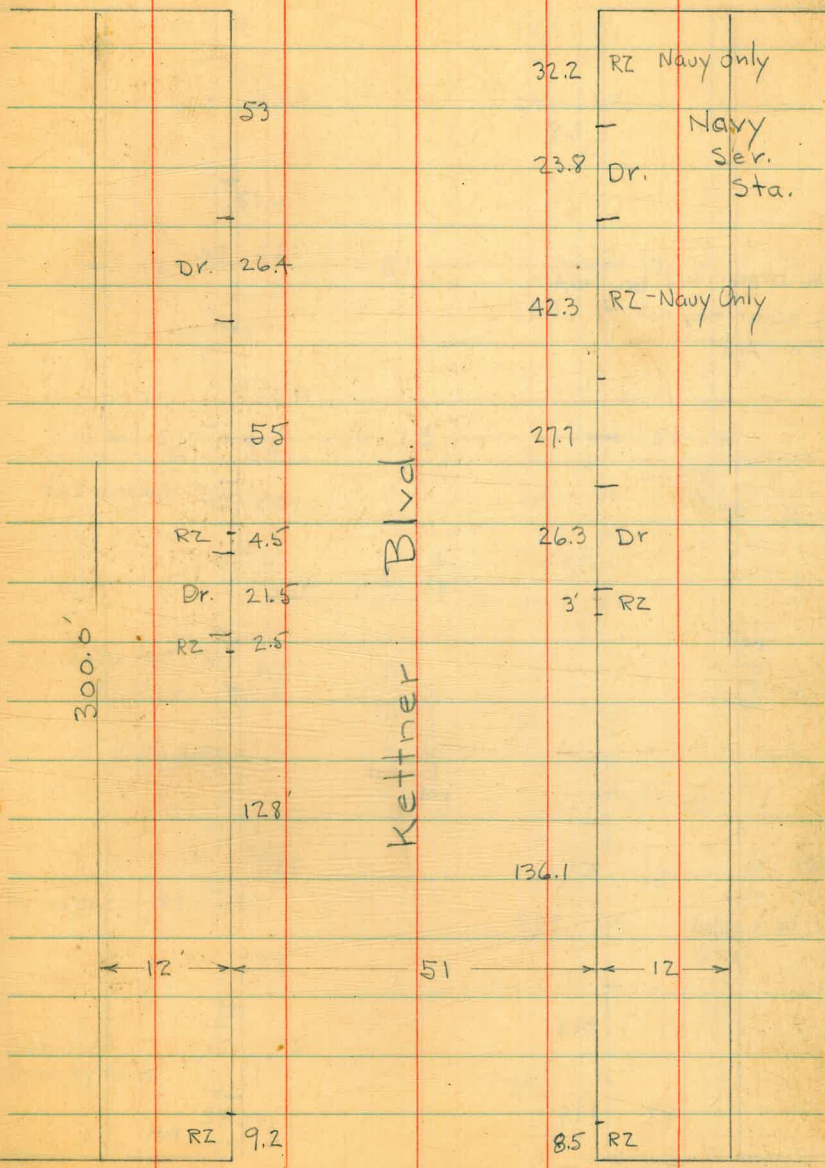
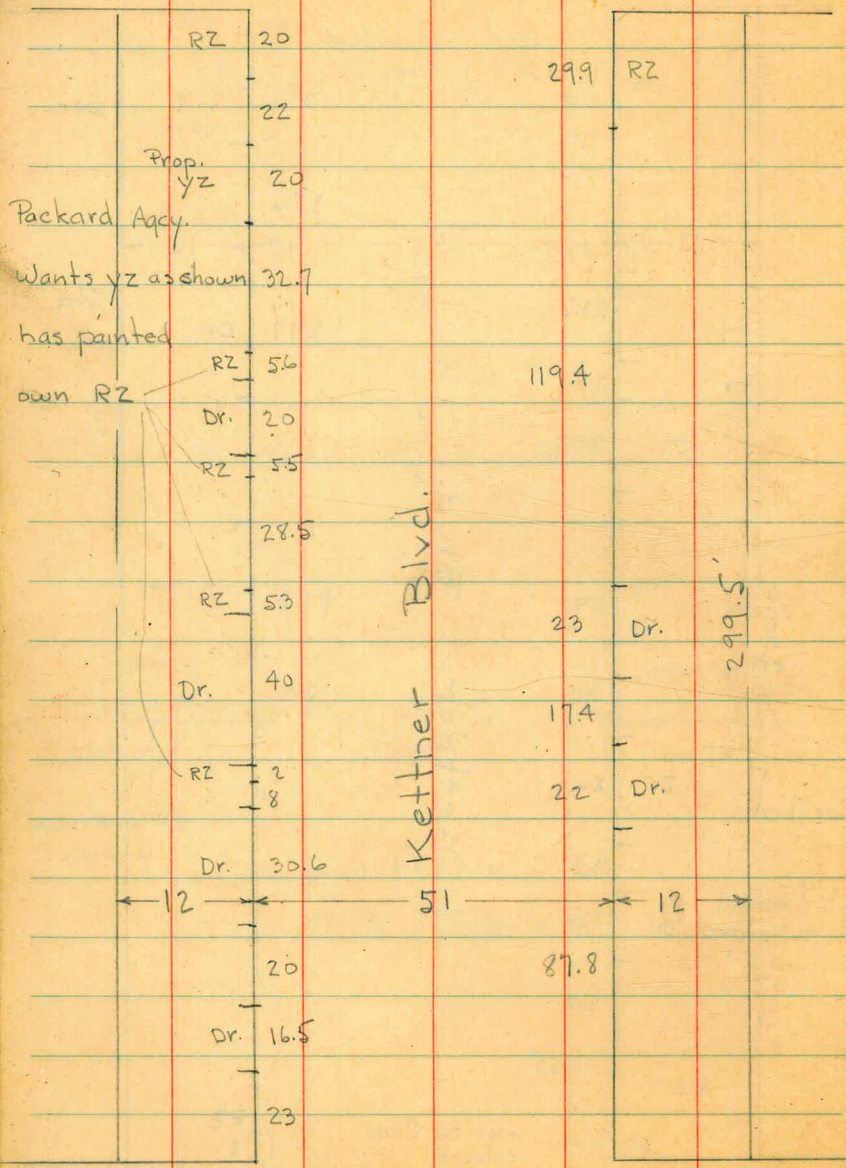
India St.

India St.

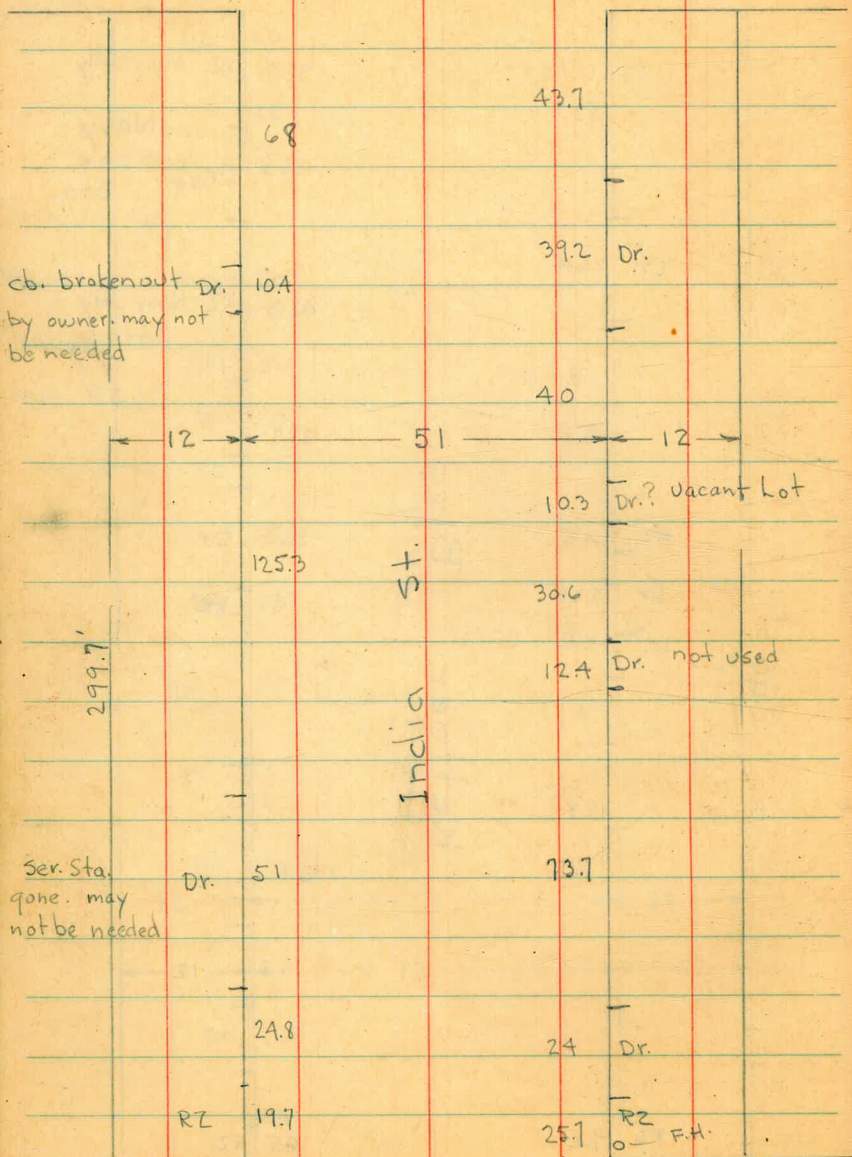


Kettner Blvd.



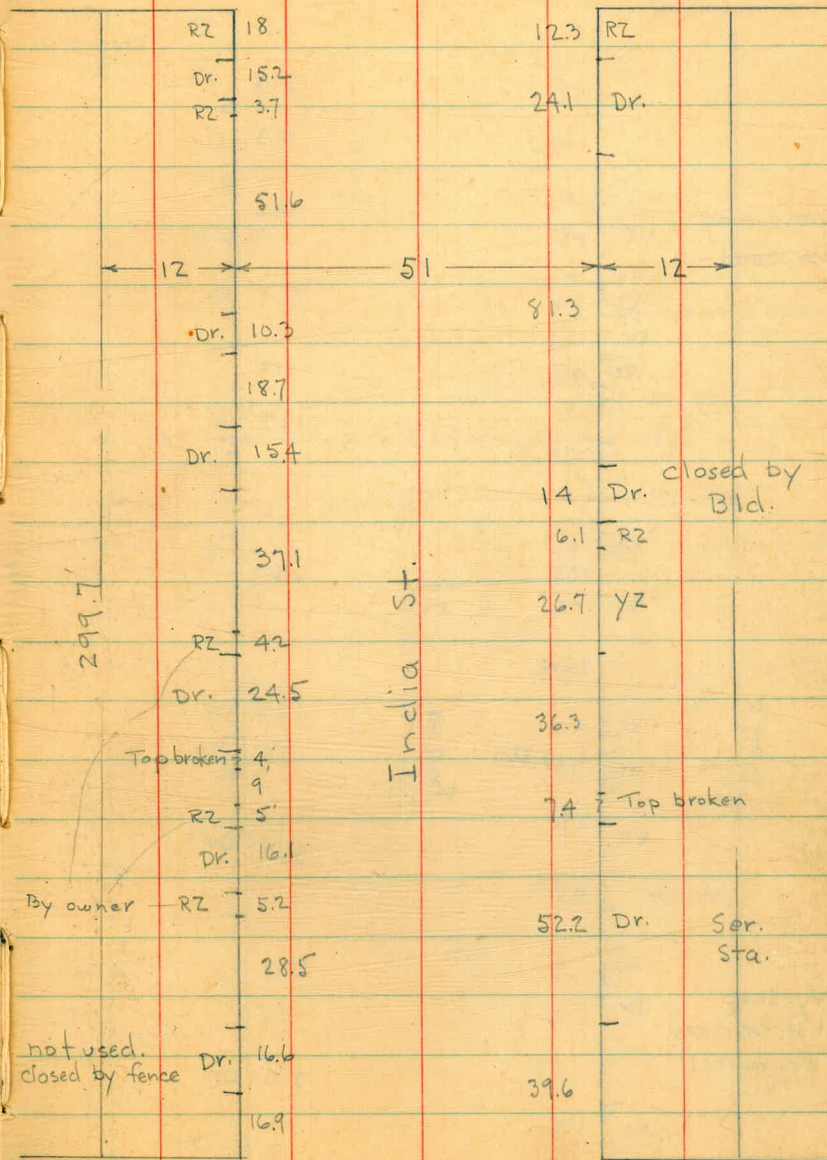


Beech St.

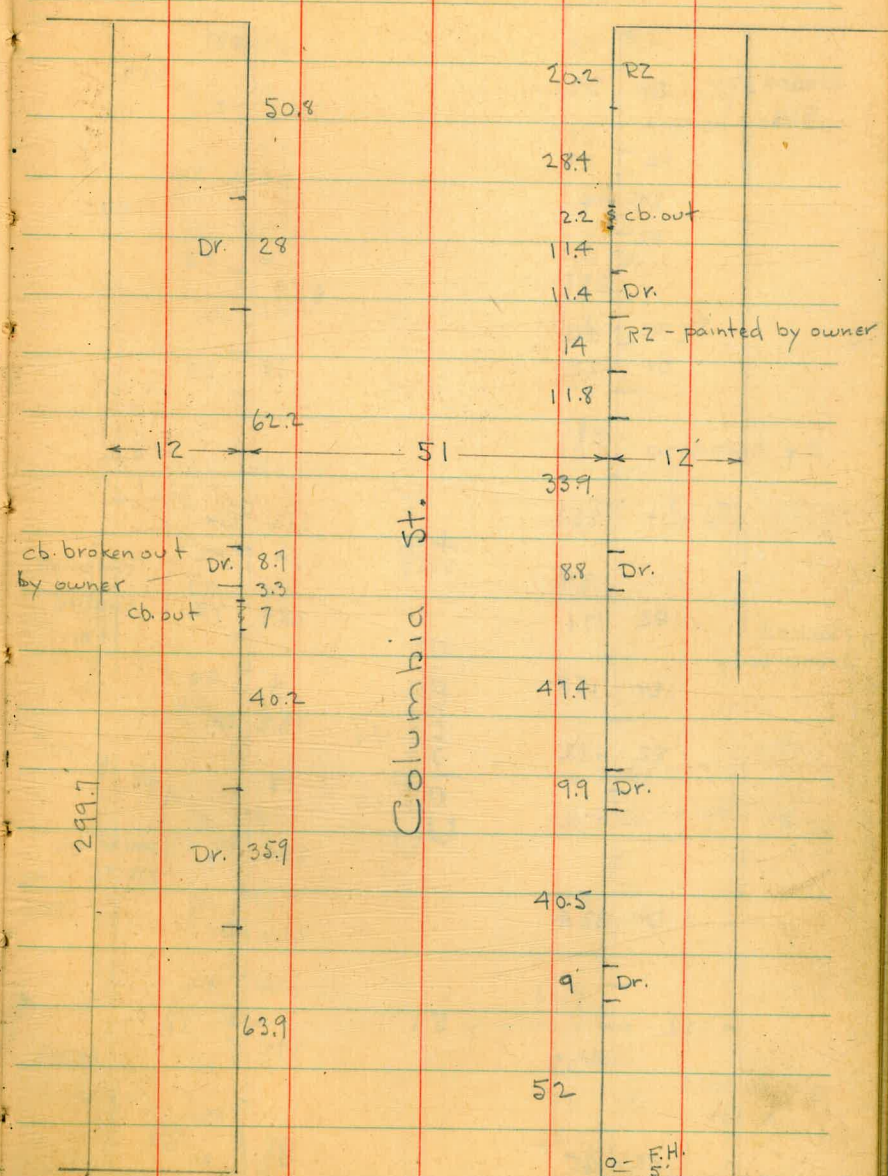
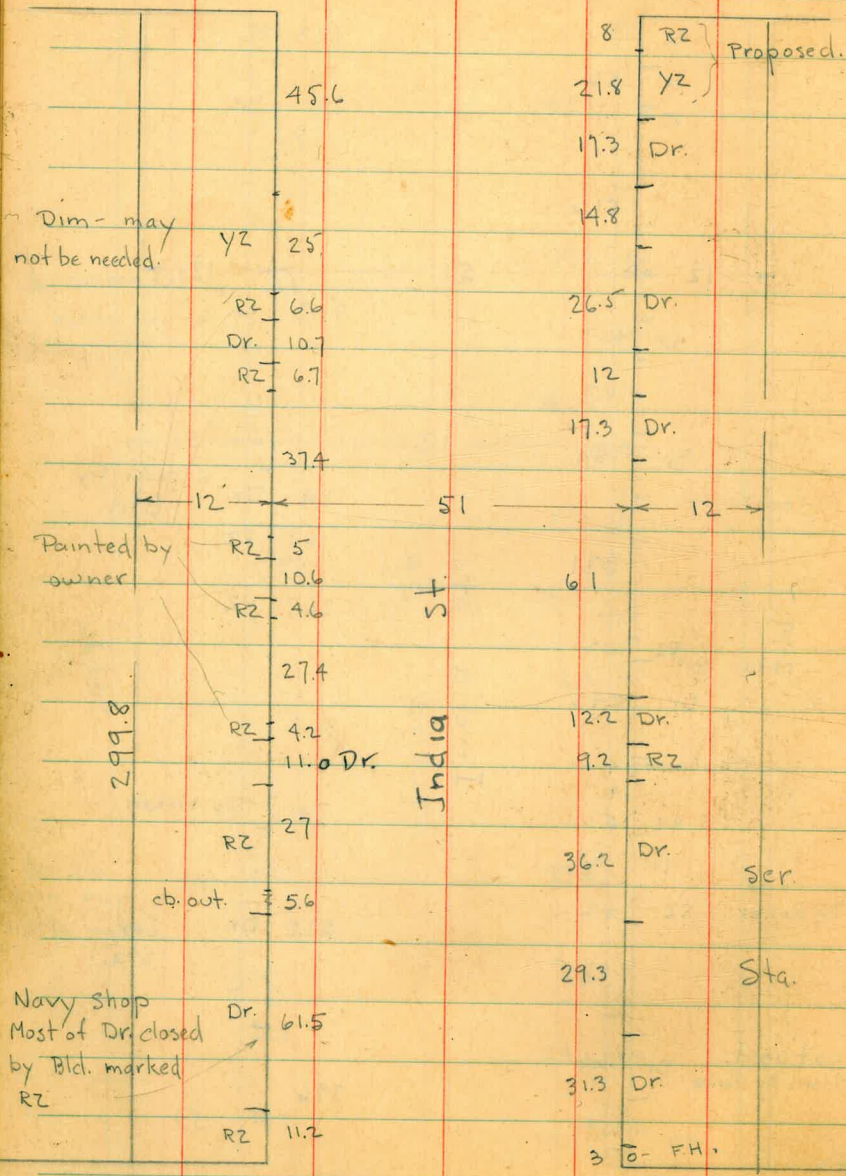


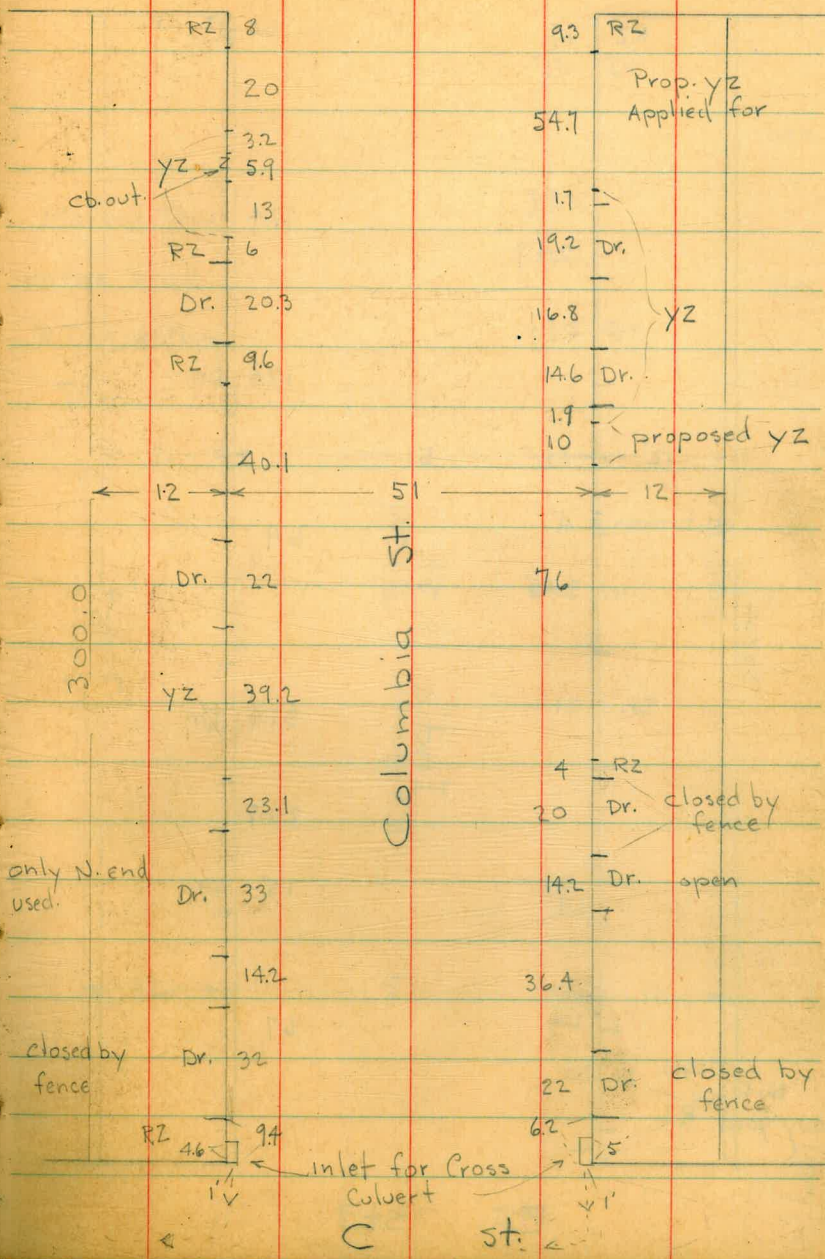
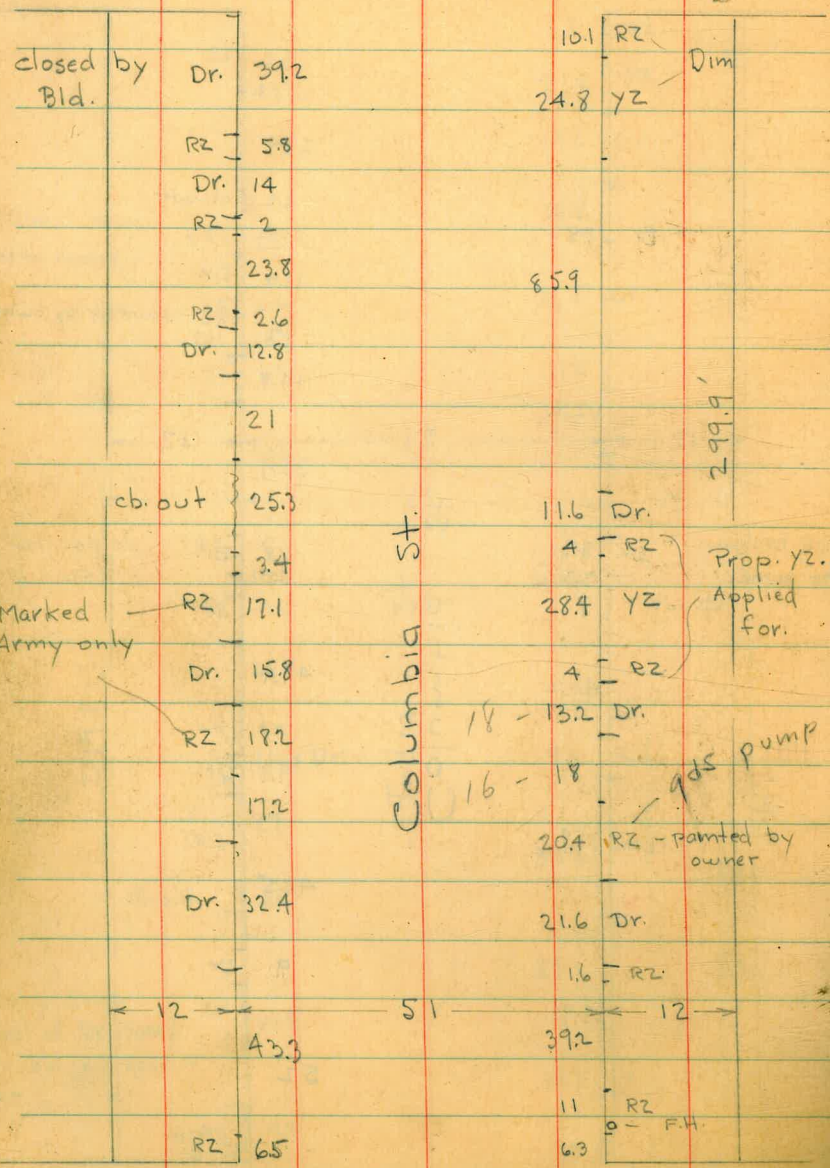
Fish St.

Fish St.

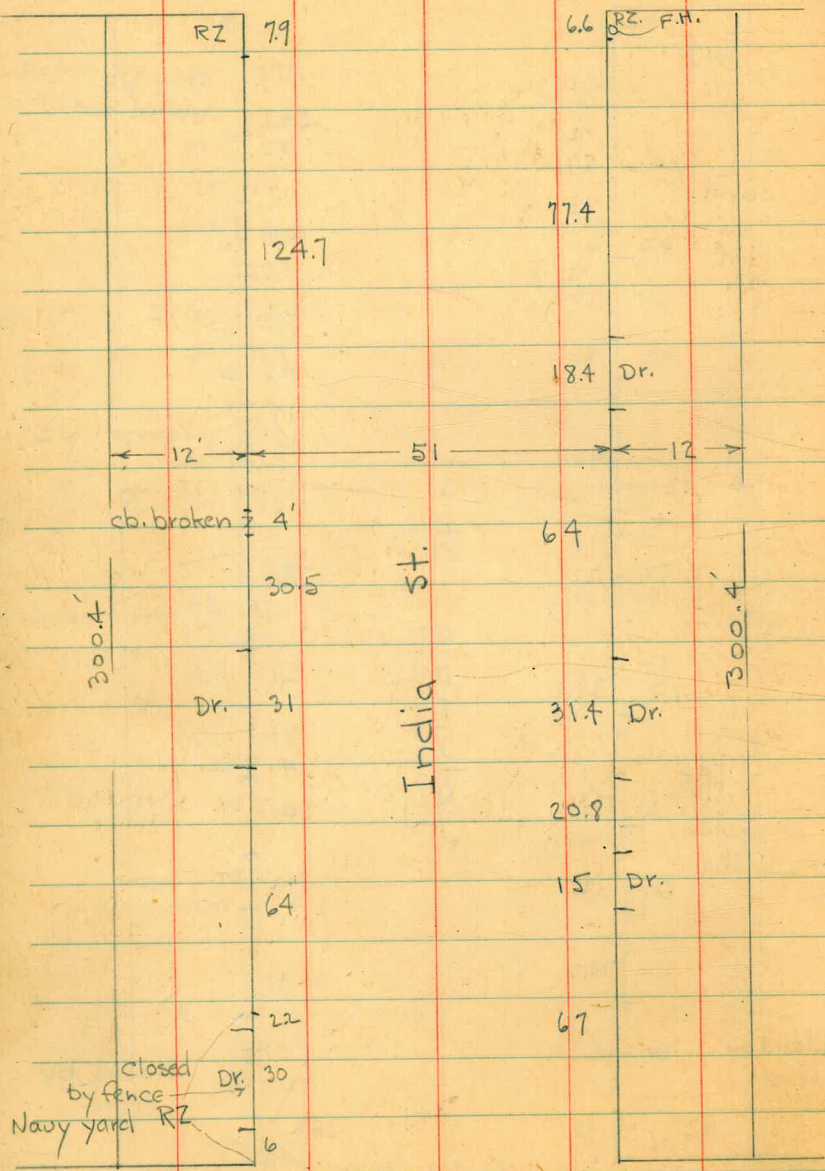


A St.



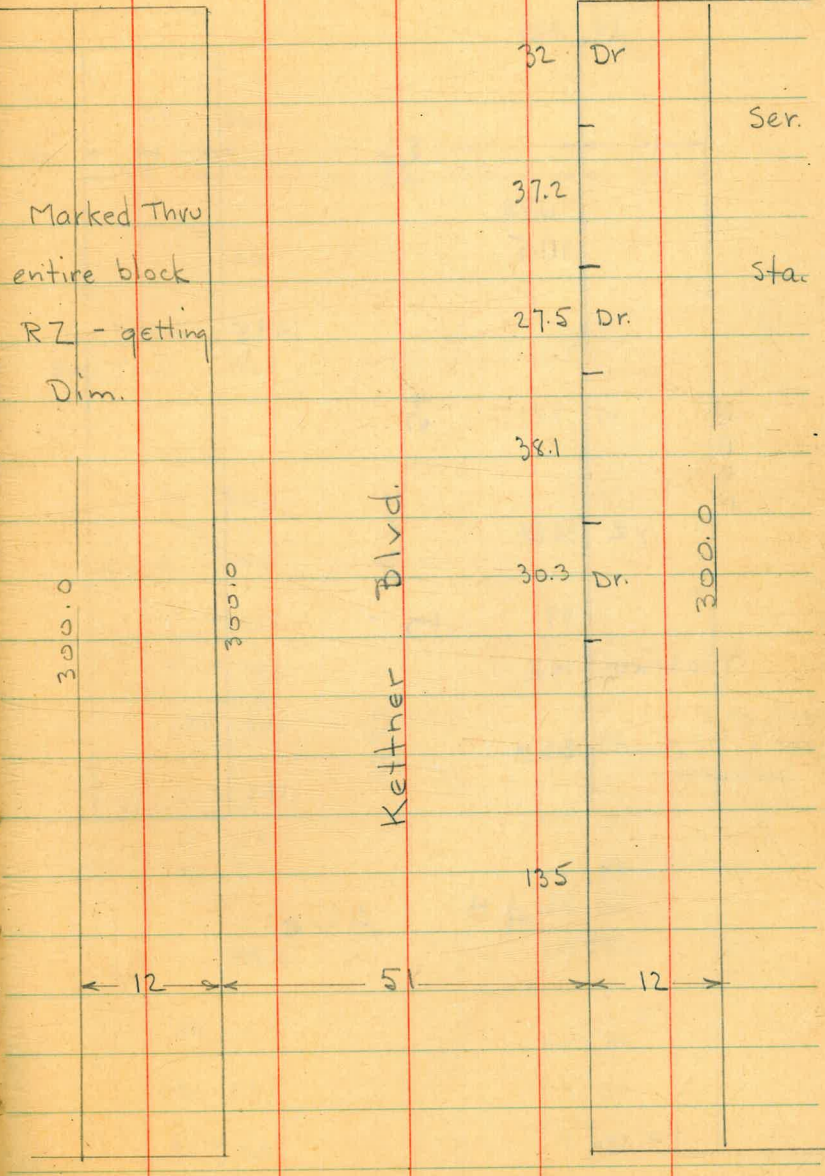


Broadway



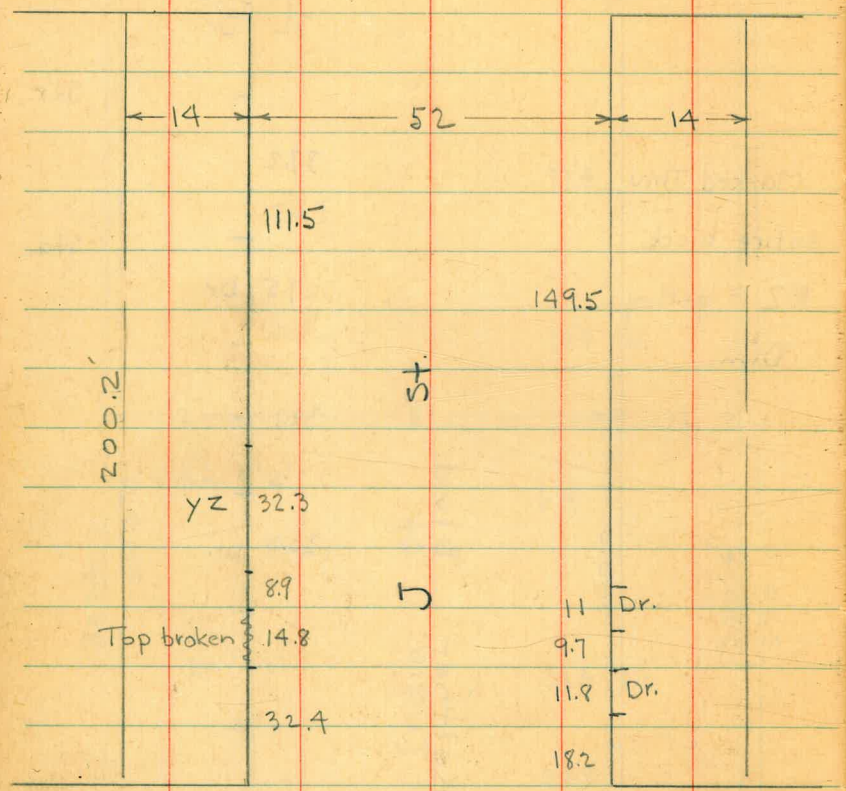
E St.

Broadway



E St.

5th Ave.

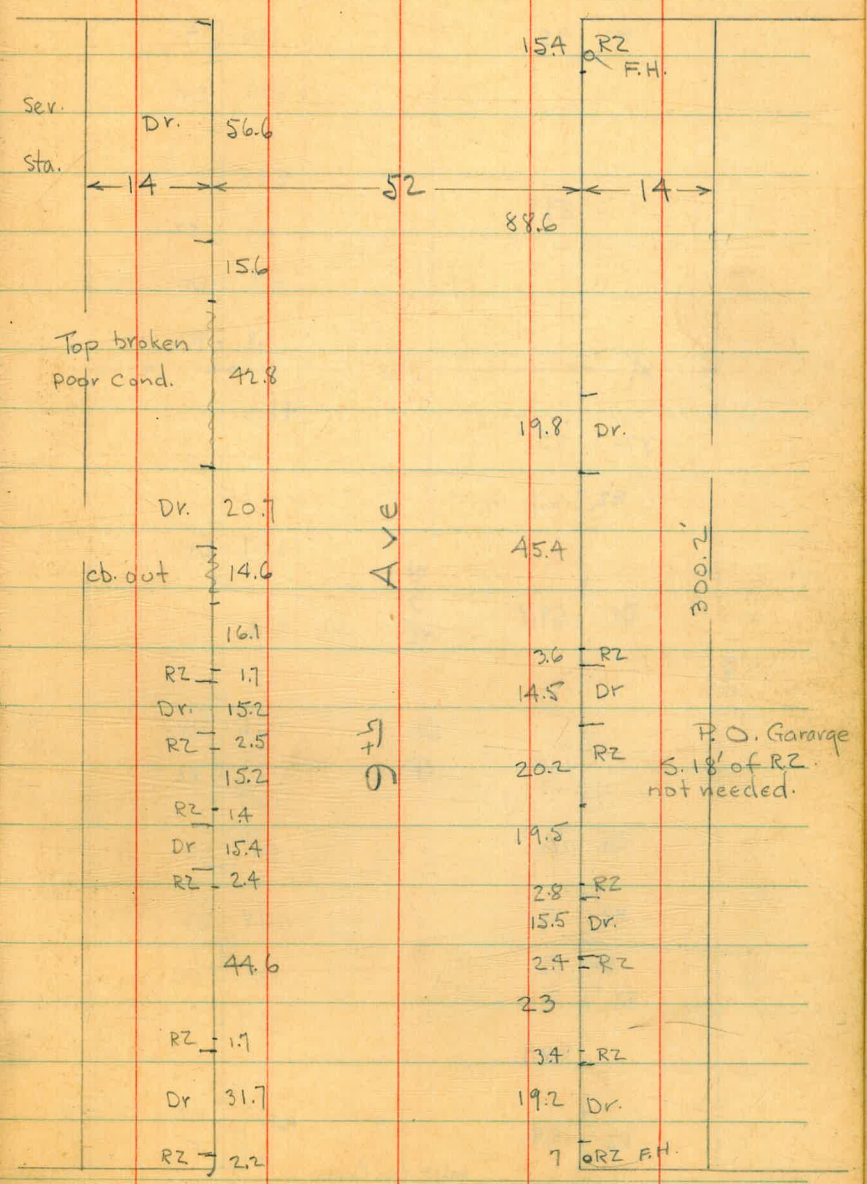


4th Ave.

F.O.
4-19-46

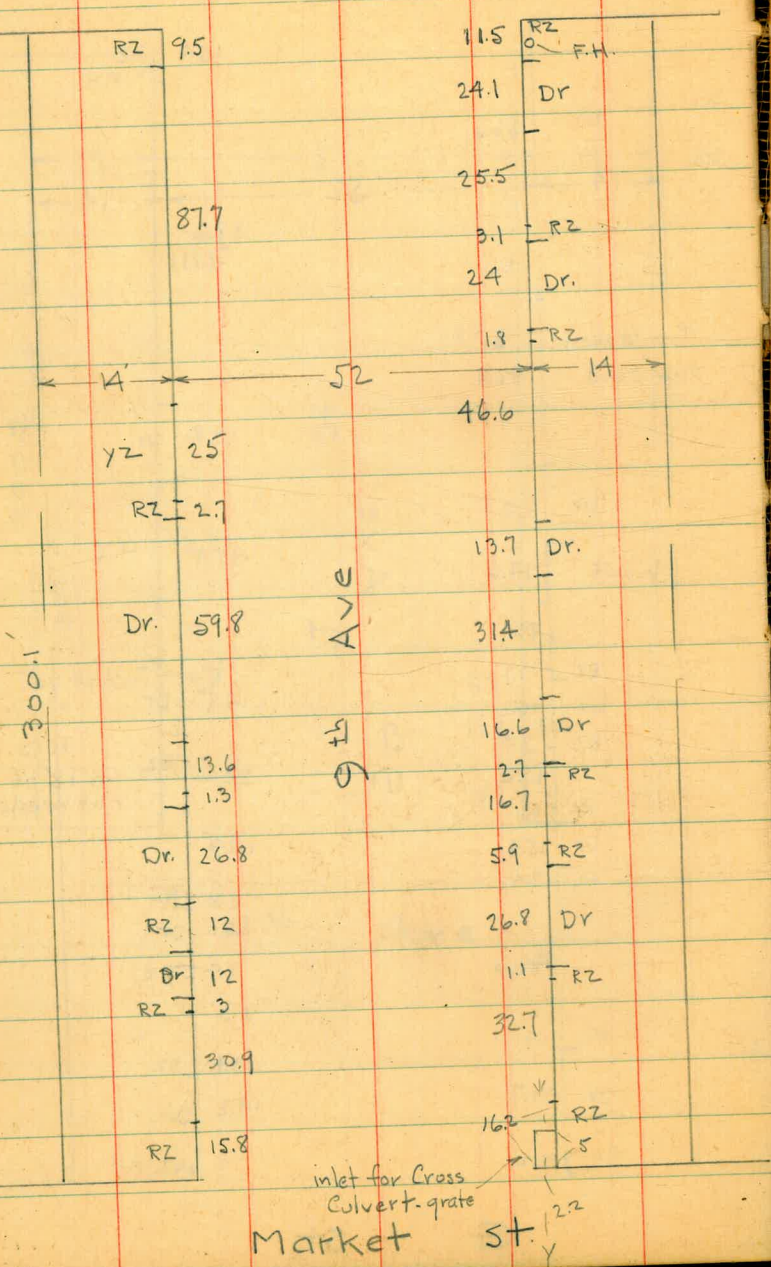
F St.

39



G St.

G St.

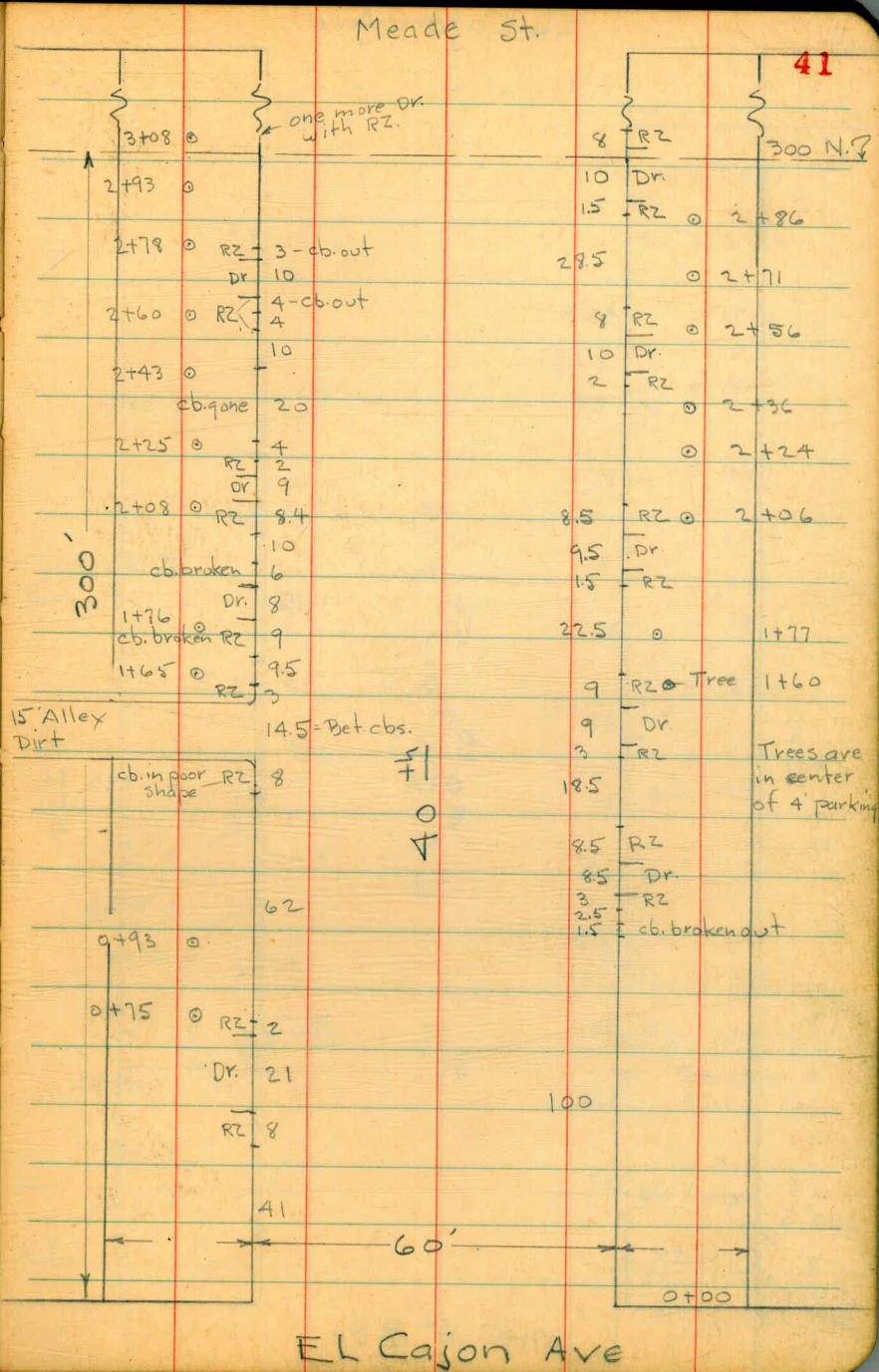


EL Cajon 40th Area.

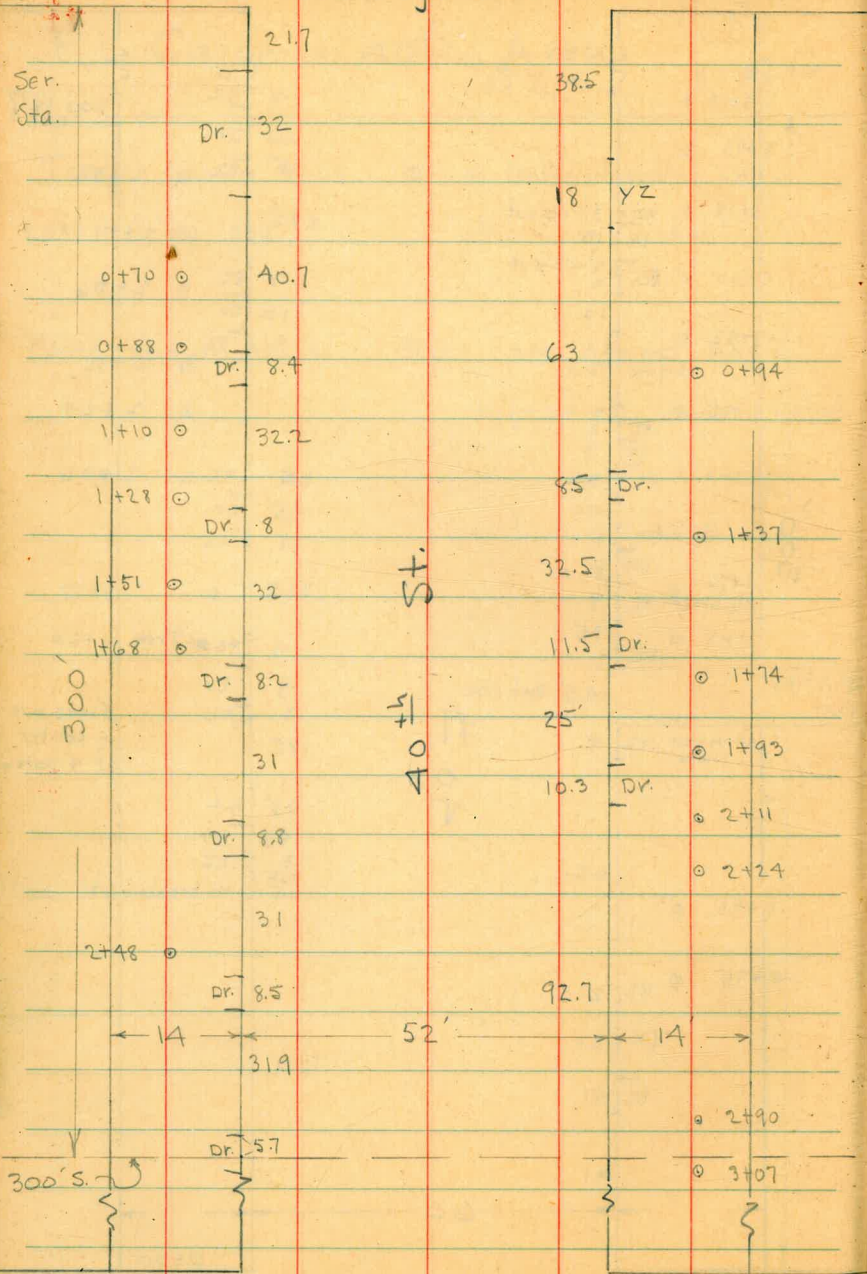
Osborne
McCoy
Hardin
Kreft
5-15-46

Trees shown thus: ○ - in center of parking unless located by sta. otherwise noted.

Poles shown thus: ⊙ are against back edge of cb. unless noted.



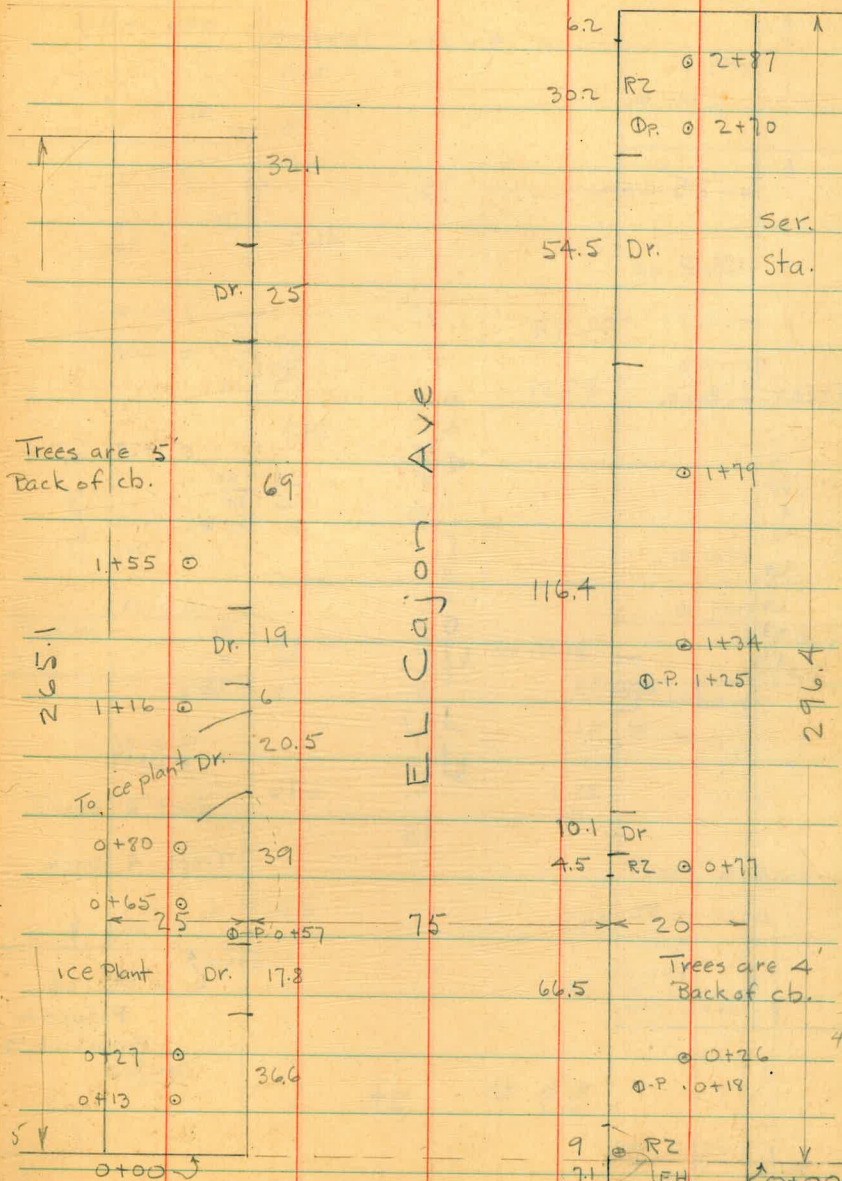
EL Cajon Ave



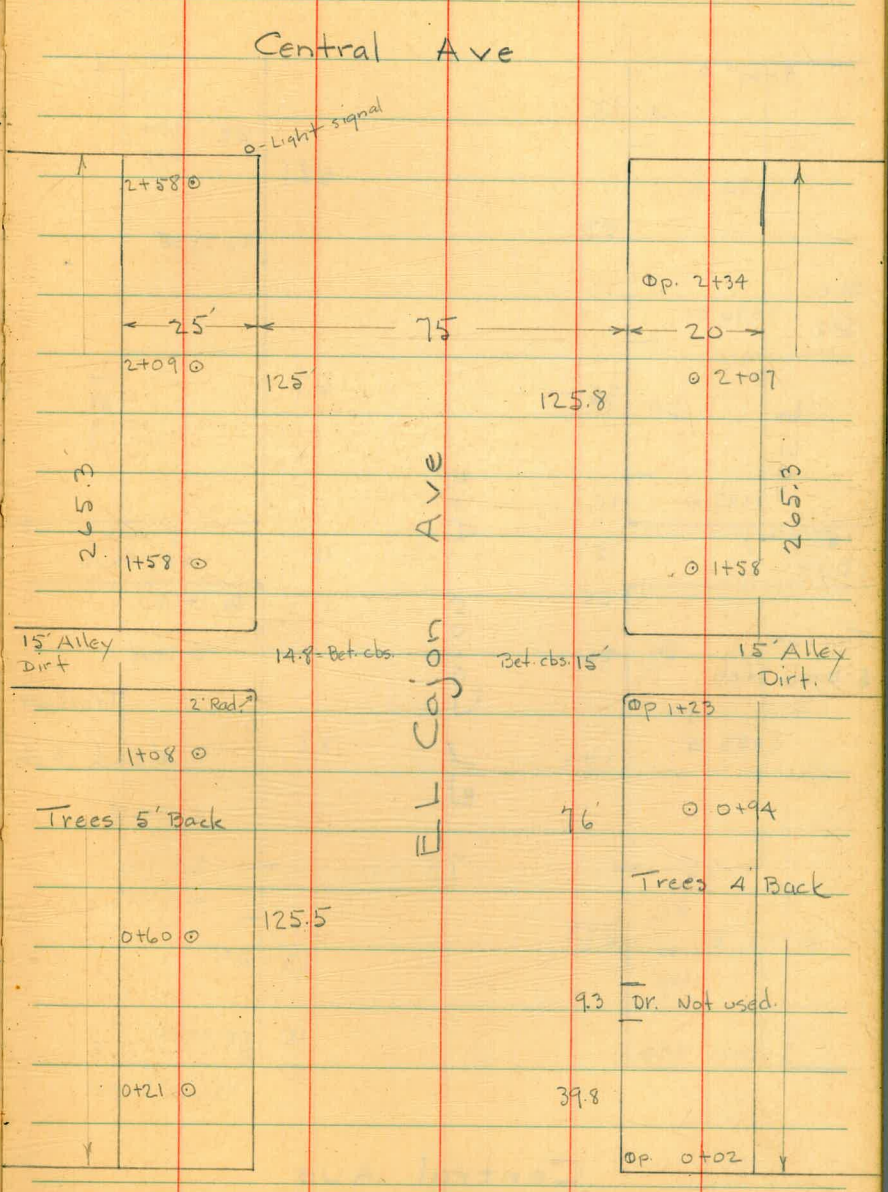
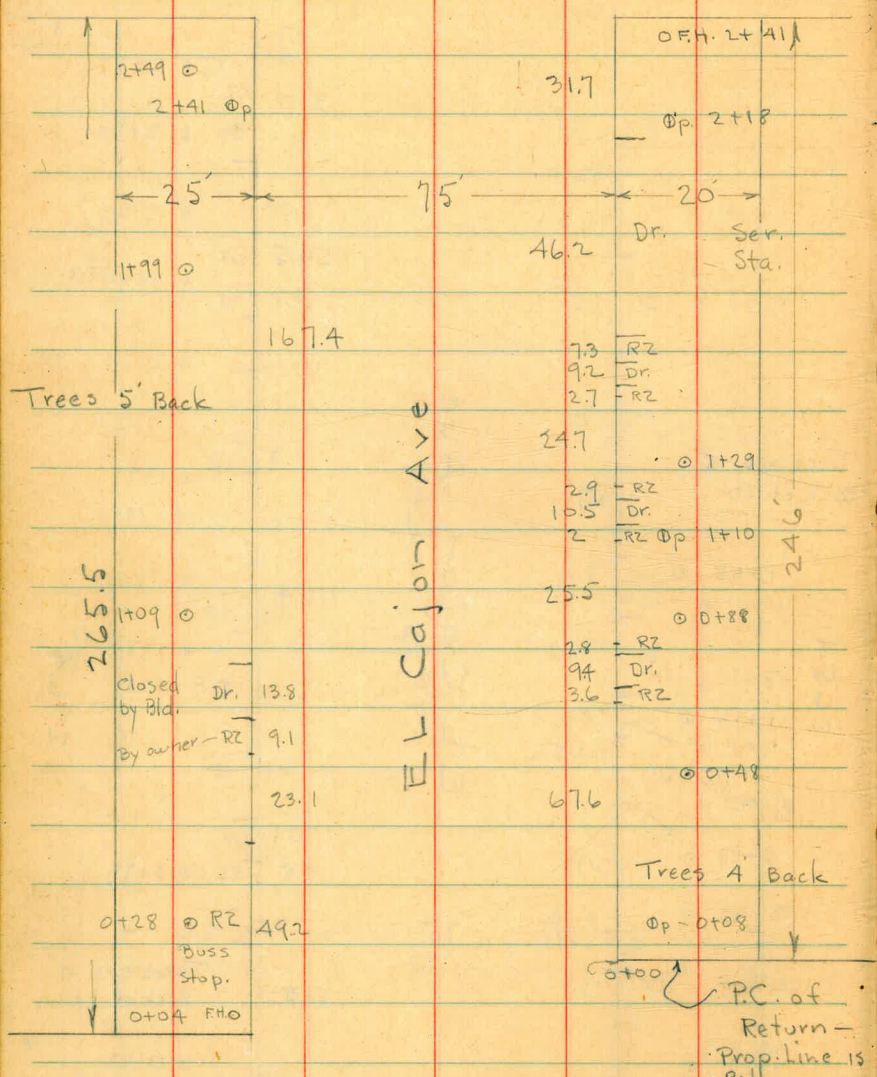
Orange Ave

39th St.

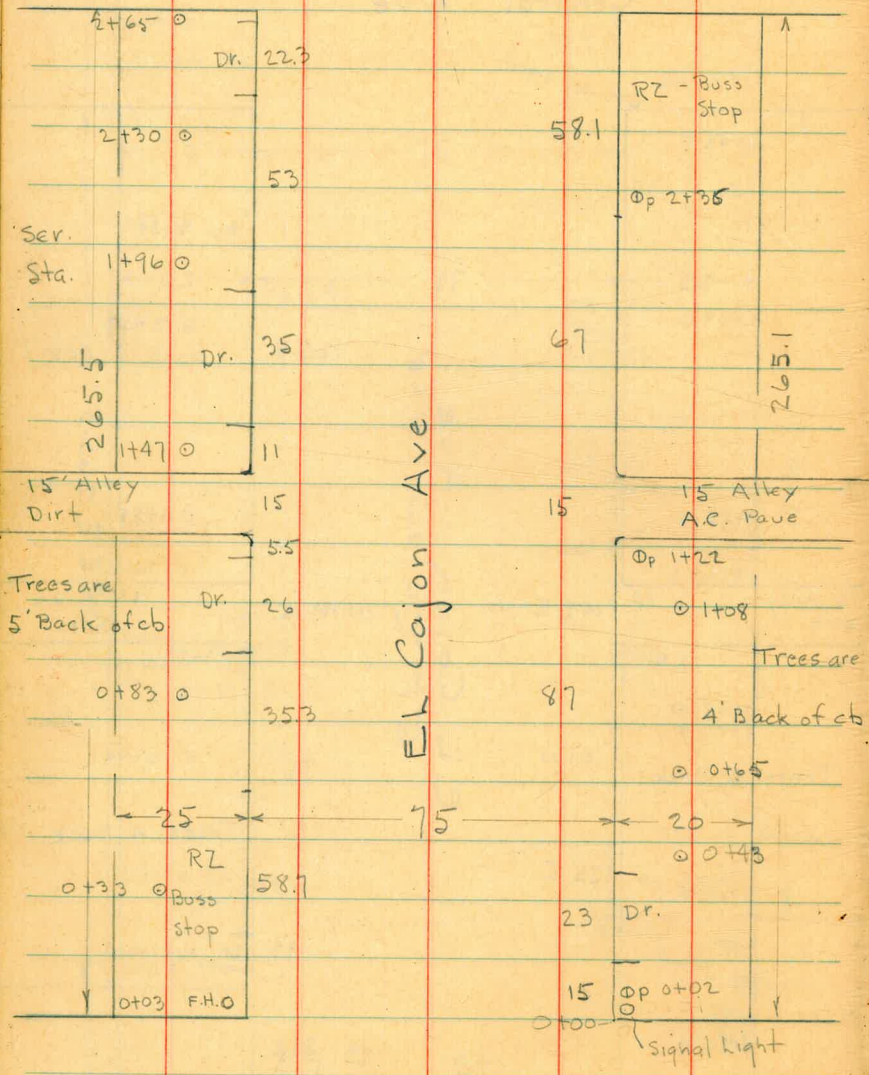
42



38th St.



41 st St.



Central Ave

Downtown Area -

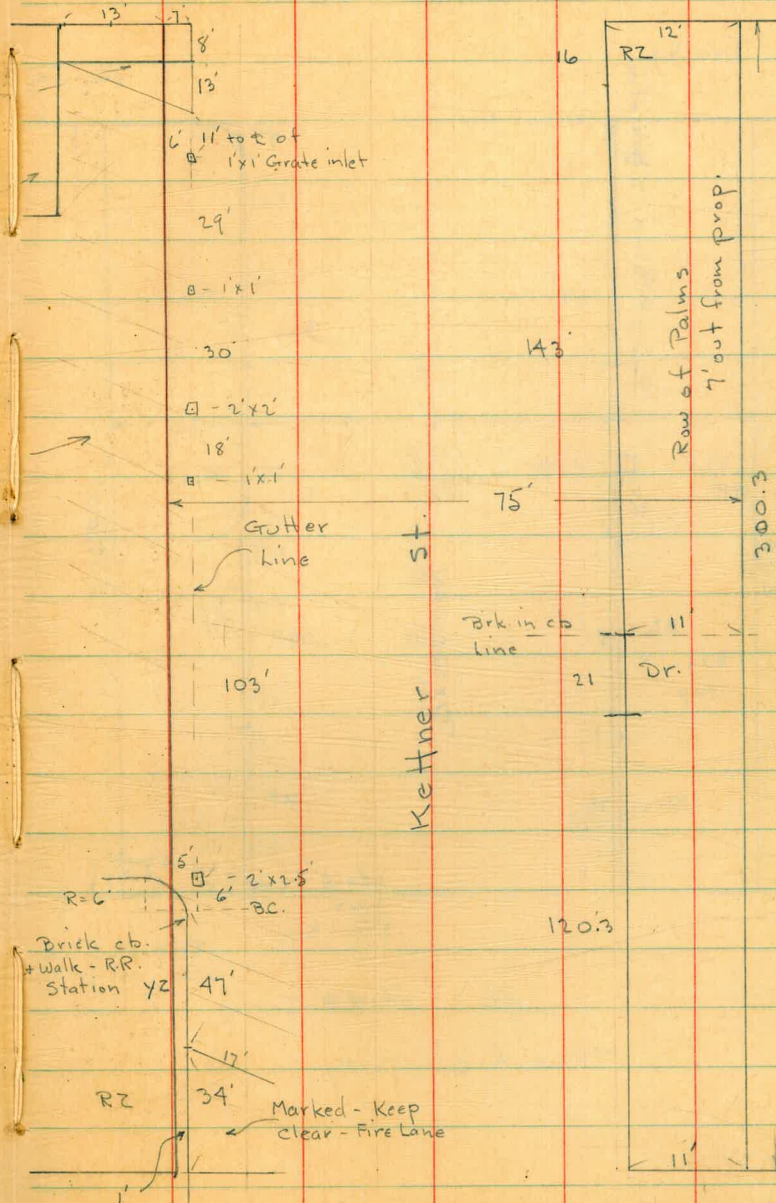
B St.

Kettner 45

White line
Parking stalls

Walk in front of
R.R. Express Bld.

Row of painted
stalls for R.R.
Express



st.

Kettner

C St.

Broadway

22

California st.

RR Tracks

Bldg. line

Row of Palms 2' back of cb.
end of cb.
108'

20' 85' 20'

2' x 2.5' M.H.

200'

RZ 51'

Bus stop

Dr. 39'

Broadway

36.6

PC

100.6 Dr.

200'

44.4

1.5 x 1.5' inlet 3' from line
D.F.H. 5' 4' back of cb.

End of Cb. + walks. - est. prop. line

R.R. Tracks

Pacific Hwy.

E St.

Union st.

E St

46

RZ 4.6

26.3

Dr. 24'

28.4

Dr. 17.3

19.4

Dr. 11.4

37'

Dr. 11.8

RZ 19.4

200.3

St
J. E. I

200.3

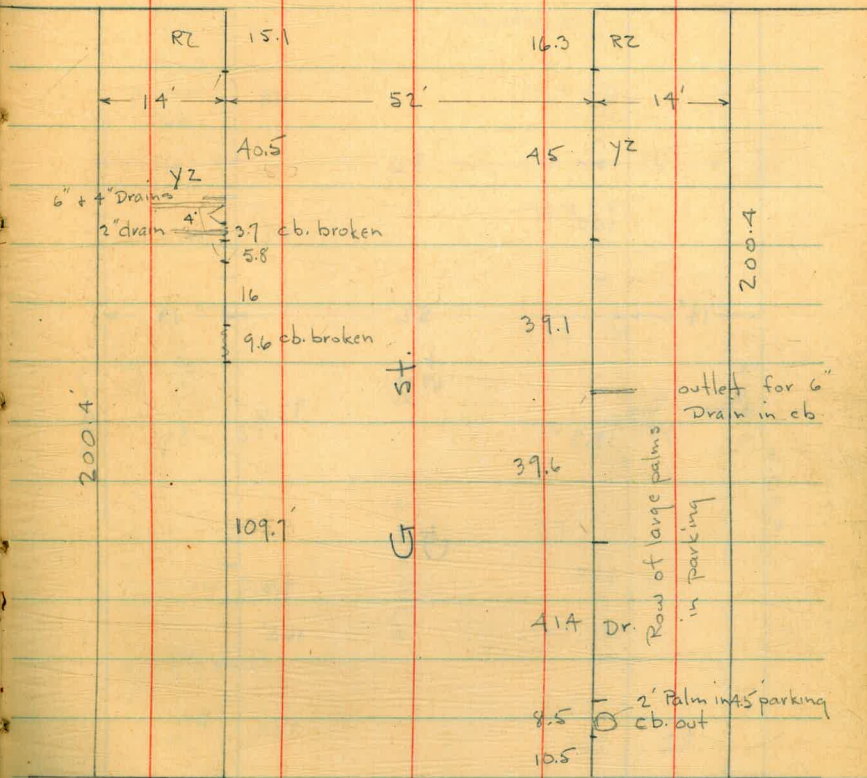
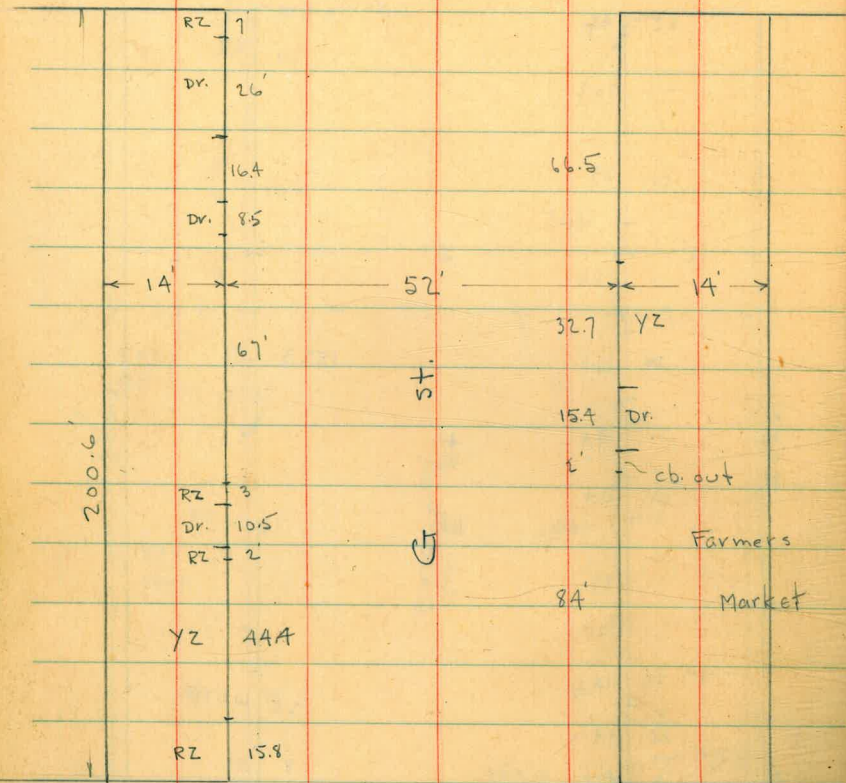
20' RZ

152.3

20 WZ

9 RZ

State st.

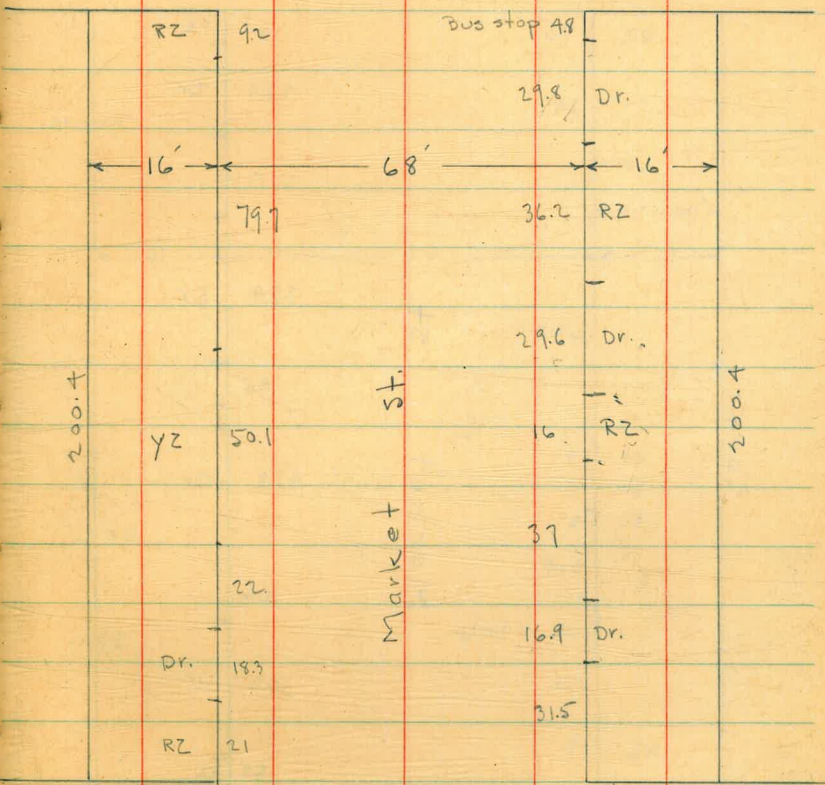
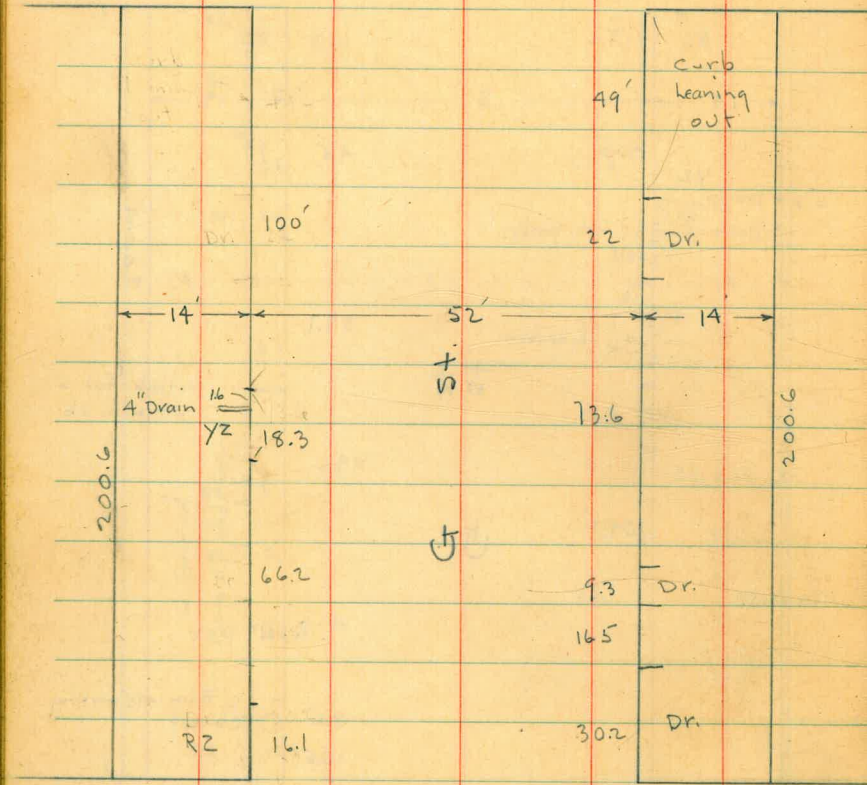


G St.

Market St
48

13th St.

12th St.

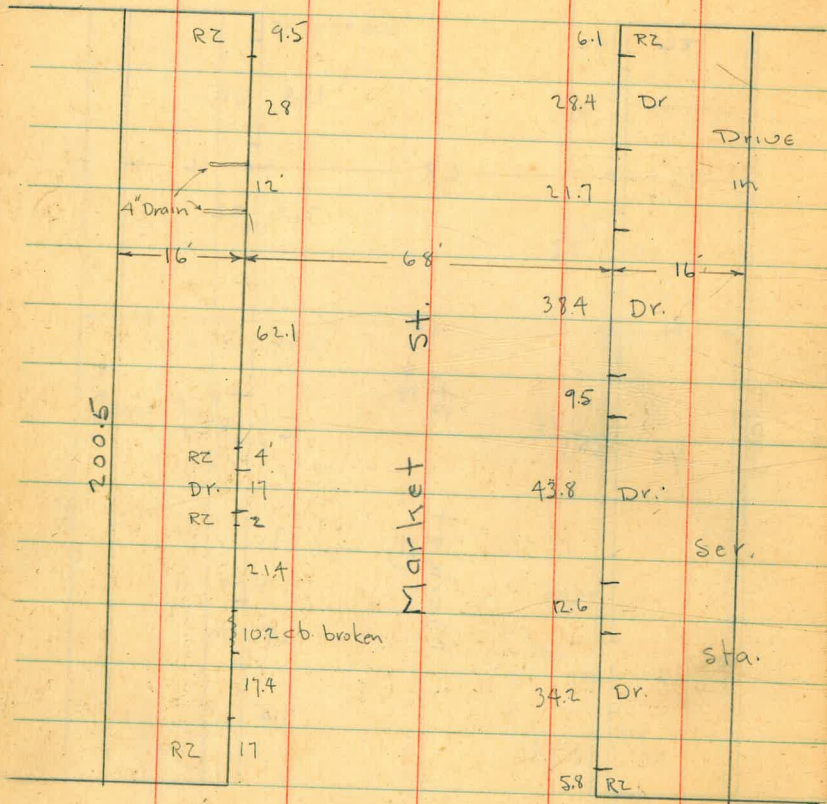


12th St.

11th St.

$$\begin{array}{r} 118.3 \\ 66.2 \\ 16.1 \\ \hline 200.6 \end{array}$$

9th St.



8th St.

INDEXED

Cross Section For Paving

Alley

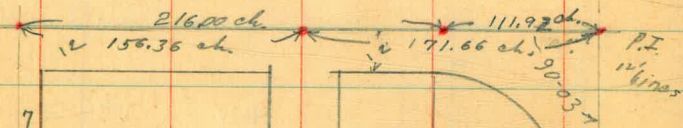
BIK 7 - City Hqts & 8-21-47

BIK P, Montclair
 Summer for
 W Moore
 Sherman
 Lamore

W.O. # 3109A

• - Donotes - Ed. Lead & Tack

• - " set nail

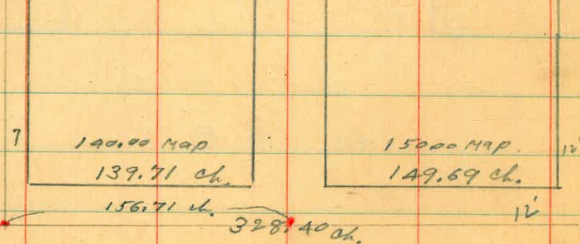


130.00 Map.

Ctr. of Alley Prorated as per Map 168A.

Tie sheet # 3507

1/14/49



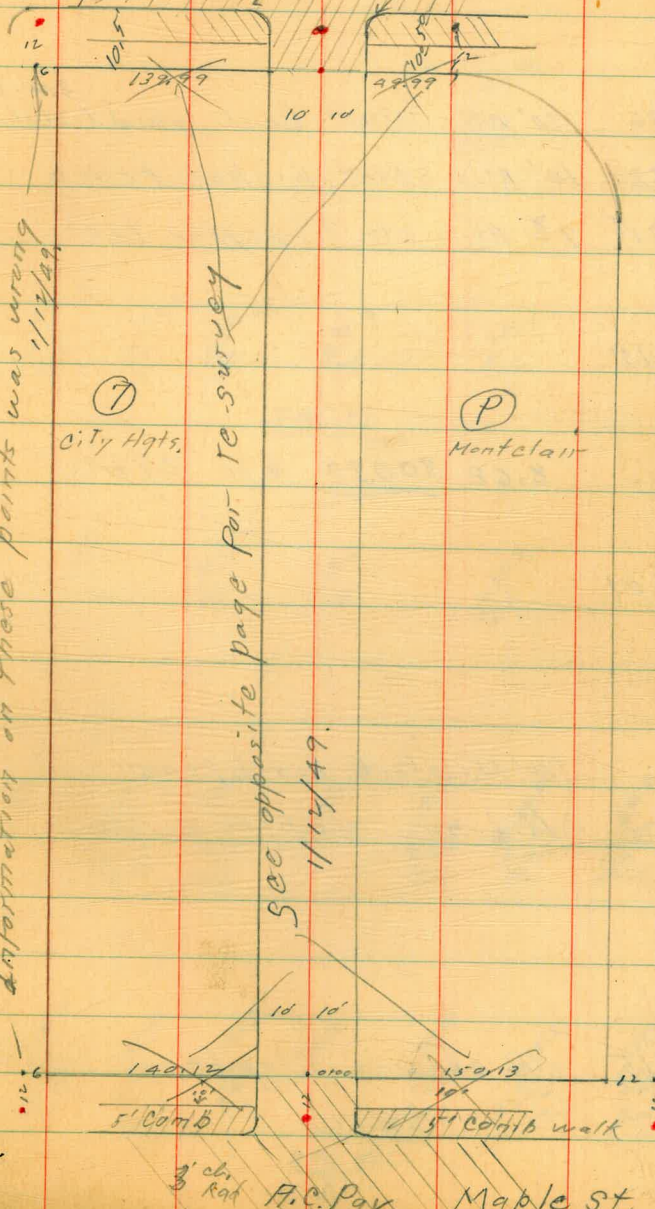
S.E. Boundary 139
 + Maple. 112 296.51 — 295.12

INDEXED
 WK
 JAN 14 1949

Indexed
 c.s.k.

50

H.C. Paving (Cooper St.)
 3' ch. Rad.



⑦
 City Hqts.

①
 Montclair

see opposite page for re-survey
 1/12/49

Information on these points was wrong
 1/12/49

140.12
 5' Comb

150.13
 5' Comb walk

3' ch. Rad

H.C. Pav.

Maple St.

Lt. £ Rt.

0+36 10' Rt. = start Conc. yard (slab) ^{S.W. Cor.}
 0+32 10' Rt. = start picket fence
 0+31^E 9^E Rt. = ctr. 7" pepper tree

0+15
 8.62 300.32 4.81 291.70

0+01
 (10' Lt. = start board fence
 0+00 = N. Line maple

0-15 = N. cb. line Maple
296.51

292.99
 $\frac{7.33}{10.1}$

293.4 $\frac{6.9}{10}$ 293.2 $\frac{7.1}{7}$ 292.3 $\frac{8.0}{6}$ 291.9 $\frac{8.4}{8}$ 292.1 $\frac{8.2}{10}$
300.32

292.9 $\frac{3.6}{10}$ 291.4 $\frac{5.1}{7}$ 291.2 $\frac{5.3}{8}$ 291.6 $\frac{4.9}{10}$

292.1 $\frac{4.4}{10}$ Grd. 292.10 $\frac{4.41}{74.06}$ 291.55 $\frac{4.96}{7.9}$ 291.17 $\frac{5.34}{94.4}$ 291.38 $\frac{5.18}{9.95}$ Grd. 291.45 $\frac{5.06}{9.95}$ dc. 291.5 $\frac{5.0}{10}$ Grd.

293.03 $\frac{3.48}{4.9}$ cc 292.53 $\frac{3.78}{4.9}$ Grd. 291.94 $\frac{4.52}{5.06}$ ctr. top of. Rot. 291.45 $\frac{5.06}{10}$ Pa v 291.08 $\frac{5.43}{10}$ Pa v. 290.89 $\frac{5.64}{10}$ Pa v. 291.29 $\frac{5.24}{5.0}$ Top. ctr. Rot. 289.77 $\frac{6.74}{5.0}$ Grd. 290.31 $\frac{6.20}{5.0}$ dc.

296.51

0+86¹ End. Conc apron + double gar.

0+71 Cont. =

0+71 also start Conc apron & double Gar.
10' Rt. = End Conc. slab.

0+69⁵ 10 Rt. = End conc. wall + picket fence

0+60 9¹ Lt. = pole # D 37568 T
10² Rt. = End board fence

0+47 1 Start 6" Conc wall on conc. slab.
300.32

Lt.

±

Rt.

293.61
6.71
10.4
End apron

293.66
6.66
11.7
Gar. floor.

293.59
6.75
10.4
Edge
Apron

293.65
6.67
11.7
Gar floor

294.4
5.9
10

293.9
6.9
7

293.9
6.6

293.60
6.72
10
End slab.

293.87
6.45
10
Top. end of wall

294.1
6.2
10

293.9
6.6
7

293.2
7.1
6

293.2
7.1
10

293.1
7.2
10

293.3
7.00
10.2

293.7
7.15
10.7

300.32
Brd
top wall

Conc.
slab

1+92 - 10⁸ Rt. = End shed (chicken coop)

1+84 10⁹ Rt. = End wire fence start shed

1+74 11¹ Rt. = Start chicken wire fence

1+73 Cont

1+73 10⁸ Rt. End conc. wall + End slat fence

1+60 Lt. = Start pipe + wire fence.

1+54 End frame shed - start slat fence

1+44 Cont.

Also start frame shed

1+44 10⁸ - Rt. = Start 5" wide conc. wall.

1+00

300.32

295.6
4.7
10

295.2
5.1
9

295.1
5.2
9

294.7
5.6
10

294.65
5.67
10.2
top wall

294.10
6.2
10.2
Bottom of wall

293.6
6.7
20

295.4
4.9
10

294.9
5.7
6

294.6
5.7
10

294.4
5.9
10

294.39
5.93
10.8
top wall

293.82
6.5
10.8
Base of wall

296.8
3.5
50

294.9
5.4
10

294.4
5.9
8

294.2
6.1

293.9
6.4
10

293.6
6.7
50

300.32

7
 5+30
2+30

2+28 Rt. = End Cone apron + double Bar.

2+13 10th Rt. = start Cone. Apron + double gas.
 picket Pence.
 end pipe + wire Pence, also start

2+10 9th Lt. = Pole # 415618H also at 9th Lt. =

2+01 19th Rt. = \pm Sing Bar. Conc. Floor

2+00

300.32

LT.	\pm	Rt.	
$\frac{246.5}{3.8}$ 10	295.8 4.5	$\frac{295.9}{4.4}$ 10	$\frac{294.9}{5.1}$ 20
	$\frac{295.7}{4.6}$	$\frac{295.7}{4.6}$ 7	$\frac{295.21}{5.11}$ 19.4 Bars Floor
	$\frac{295.4}{4.7}$	$\frac{295.6}{4.7}$ 7	$\frac{295.01}{5.31}$ 10.2 Apron Bar floor + Ord.
		$\frac{294.7}{5.6}$ 19 Ord	$\frac{294.84}{5.50}$ 19.5 Floor
$\frac{295.9}{4.4}$ 10	$\frac{295.5}{4.8}$ 9	$\frac{295.1}{5.2}$ 7	$\frac{295.3}{5.0}$ 7
		$\frac{295.1}{5.2}$ 7	$\frac{295.1}{5.2}$ 10

300.32
 ↑

3+11 10⁸ Rt. = start cone apron + double garage cone floor

T.P. 6.79 304.13 2.98 397.34

3+00

2+99 10⁵ Rt. = ctr. 30" Eucalyptus

2+90 9² Rt. = end picket fence.

2+52⁵ 9⁸ Rt. = Φ 1 1/2 wide cone walk

2+50 9⁶ Rt. = line of fence.

2+35 9⁸ Rt. = start picket fence

300.32

Lt.

 Φ

Rt.

304.13

$$\begin{array}{r} 297.6 \\ 2.7 \\ \hline 10 \end{array}$$

$$\begin{array}{r} 297.2 \\ 3.1 \\ \hline 8 \end{array}$$

$$\begin{array}{r} 296.9 \\ 3.4 \\ \hline \end{array}$$

$$\begin{array}{r} 297.2 \\ 3.1 \\ \hline 10 \end{array}$$

$$\begin{array}{r} 296.3 \\ 4.0 \\ \hline 20 \end{array}$$

$$\begin{array}{r} 296.39 \\ 3.93 \\ \hline 9.8 \end{array}$$

$$\begin{array}{r} 296.37 \\ 3.95 \\ \hline 10 \\ \text{walk} \\ + \text{ground} \end{array}$$

$$\begin{array}{r} 295.58 \\ 4.64 \\ \hline 20 \end{array}$$

$$\begin{array}{r} 297.0 \\ 3.3 \\ \hline 10 \end{array}$$

$$\begin{array}{r} 296.6 \\ 3.7 \\ \hline 8 \end{array}$$

$$\begin{array}{r} 296.2 \\ 4.1 \\ \hline \end{array}$$

$$\begin{array}{r} 296.4 \\ 3.9 \\ \hline 9.6 \end{array}$$

$$\begin{array}{r} 295.9 \\ 4.4 \\ \hline 10 \end{array}$$

$$\begin{array}{r} 295.5 \\ 4.8 \\ \hline 20 \end{array}$$

$$\begin{array}{r} 295.9 \\ 4.4 \\ \hline \end{array}$$

$$\begin{array}{r} 296.1 \\ 4.2 \\ \hline 9.8 \end{array}$$

$$\begin{array}{r} 295.5 \\ 4.5 \\ \hline 10 \end{array}$$

$$\begin{array}{r} 295.3 \\ 5.0 \\ \hline 20 \end{array}$$

$$\begin{array}{r} 297.0 \\ 7.1 \\ \hline 10.8 \\ \text{Apron} \\ \text{Rough} \end{array}$$

$$\begin{array}{r} 296.67 \\ 7.46 \\ \hline 22.6 \\ \text{Gar. floor} \end{array}$$

3+78 1A²Rt. = Φ Sing. Gar. dirt floor

3+71 9²Rt. = End picket fence.

9⁵Lt. = End picket fence

3+60 8⁸Lt. = pole # 415617-H

3+58 10⁸Rt. = Ctr. 10" Eucalyptus

3+56 10⁰Rt. = Start picket fence

3+50

3+40 15³Rt. Φ . Sing Gar. dirt floor

3+29⁵ 10⁸Rt. = End Con c. apron + Double Gar.

304.13

298.2
5.9
14.3

298.5
5.6
10

298.1
6.0
8

297.7
6.4

297.8
6.3
10

297.4
6.7
20

297.13
7.0
15.3
Floor

297.30
6.83
10.8
Apron

296.78
7.35
22.6
Gar. Floor

4+40

start latH fence.

10² Rt. = start Conc. slab. Also4+29¹10² Rt. = start 2" wide Conc. wall.

4+29

10² = End Conc. Apron + double Bar.

14.3 Rt. = start Conc. Apron + Doub. Bar

4+10

9⁸ Rt. = End picket fence. +

4+00

3+87

9⁵ Rt. = start picket fence.304.13

$$\begin{array}{r} 300.7 \\ 3.9 \\ \hline 10 \end{array}$$

$$\begin{array}{r} 299.9 \\ 4.2 \\ \hline 7 \end{array}$$

$$\begin{array}{r} 299.4 \\ 4.7 \\ \hline \end{array}$$

$$\begin{array}{r} 299.4 \\ 4.7 \\ \hline 10 \end{array}$$

$$\begin{array}{r} 298.9 \\ 5.2 \\ \hline 10 \\ \text{Bottom of} \\ \text{wall} \end{array}$$

$$\begin{array}{r} 299.35 \\ 4.78 \\ \hline 10 \\ \text{Top} \\ \text{wall} \end{array}$$

$$\begin{array}{r} 299.01 \\ 5.12 \\ \hline 10.2 \\ \text{conc} \\ \text{slab} \end{array}$$

$$\begin{array}{r} 298.99 \\ 5.14 \\ \hline 10.1 \\ \text{Apron} \end{array}$$

$$\begin{array}{r} 299.04 \\ 5.09 \\ \hline 14.2 \\ \text{Car. Floor} \end{array}$$

$$\begin{array}{r} 298.98 \\ 5.15 \\ \hline 9.8 \\ \text{Apron} \end{array}$$

$$\begin{array}{r} 299.04 \\ 5.09 \\ \hline 14.3 \\ \text{Car. Floor} \end{array}$$

$$\begin{array}{r} 299.4 \\ 4.7 \\ \hline 10 \end{array}$$

$$\begin{array}{r} 299.0 \\ 5.1 \\ \hline 8 \end{array}$$

$$\begin{array}{r} 298.6 \\ 5.5 \\ \hline \end{array}$$

$$\begin{array}{r} 298.7 \\ 5.1 \\ \hline 10 \end{array}$$

$$\begin{array}{r} 298.7 \\ 5.1 \\ \hline 20 \end{array}$$

5+12⁵ 9⁴ Lt. = Start Conc Apron + double Gar.

T.P. 5.18 305.11 420 299.73
 9⁶ Lt. = End pipe + wire fence
 5+10 9⁶ Lt. = pole # 115600H

4+84 = 10⁰ Rt. = 10' wide conc slab

4+79 10⁰ Rt. = Start picket fence

4+76 = End Apron

4+60 9⁶ Lt. = Start pipe + wire fence

4+53 13² Rt. = Start Conc. Apron +
 double Gar.

10.1 Rt. = End Conc. slab about 15 below
 wall top.
 4+50 9.9 Rt. = End 2⁰ con. wall + Lath Fence

304.13

Lt.	±	Rt.
301.80	300.89	
30.31	4.22	
22.4	9.4	9.4
Gar Floor	Apron	
		305.11
		↑
300.9	300.2	299.8
3.2	3.9	4.33
10	5	10
		slab + ground
		299.36
		4.77
		13.4
		Apron
		299.5
		1.62
		17.2
		Gar Floor
		299.28
		4.85
		13.4
		Apron
		299.5
		1.62
		17.2
		Gar Floor
		299.0
		5.1
		9.9
		Bottom of wall
		299.31
		11.82
		9.9
		Top of wall
		299.3
		4.8
		10
		Grd

5+52 10² Rt. = start Conc Apron + Sitg ^{Bar, Conc. Floor.}

5+51 10⁰ Rt. = End Conc. wall + pipe and ^{wire fence.}

5+33 10⁰ Rt. = start 3" wide Conc. wall,

^{start pipe + wire fence.}
10¹ Rt. = End picket fence also

5+30 9² Lt. = start board fence.

5+27⁵ 9⁴ Lt. = End Conc apron + Doub. Bar.

305.11

299.8
5.31
10.3
Apron
299.95
5.16
16.0
Conc Floor

300.4
1.7
10
300.0
5.1
10
Ord.
299.9
5.2
10
Bottom of wall
299.6
5.5
10
Bottom of wall
300.08
5.03
10
Top of wall

299.9
5.2
10
Ord
299.6
5.5
10
Bottom of wall
300.14
A.97
10
Top of wall

300.8
4.3
9.8
300.3
A.8
299.9
5.2
10

311.85
3.26
22
Bar. floor
300.85
A.26
9.4
Apron

10⁵ Lt. = End 18" wide walk.
 6+01 10^L Lt. = Start 6" Conc. wall

300.09	298.8	299.0
5.02	6.3	6.1
10.57 10' walk + top of wall	10.1 Bottom of wall	10.1 End

5+94

300.20	299.9	299.1	298.8	298.8	299.0
4.91	5.2	6.0	6.3	6.3	6.1
10.3 on walk	10	5		5	10

5+70 10' Rt. = start 6" Conc wall.

299.6	298.9	299.76
5.5	6.2	5.35
10 End	10 Bottom of wall	10 top of wall

5.63 10² Rt. = End Conc. Apron + Gars

299.78	299.95
5.33	5.16
10.3 Apron	10 Conc. Floor

10⁹ Lt. = Start 18" conc. walk.
 5+60 10' Rt. = End board fence

300.79	300.3	300.0	299.8	299.7
4.32	4.8	5.1	5.3	5.9
11.2 End wall	10	5		10

305.11

Orig
B.M.

8.20 295.12 ok.

N.E.B.P.
Cooper +
Boundary

4.03 303.32 3.72 299.29 (299.38)

6+17 = S. Cb. line Cooper

7.15 303.01 9.25 295.86

6+20 Cont.

6+20

6+22 ~~Cont.~~ Conc. wall 9 10' Lt = End Conc. wall
S. line Cooper also 10' Rt = End

6+20

6+29 9.9 Rt = Brk in wall Grade

305.11

Lt.

±

Rt.

61

298.84	297.89	296.70	296.15	295.48	294.75	295.18	292.68	293.33
4.67	5.12	6.31	6.86	7.53	8.26	7.83	10.33	7.86
50	50	Top B.	10		10	atr. cb	50	50
Top of	Butt	Ret	Butt	303.01	Butt	Ret	Butt	cl.

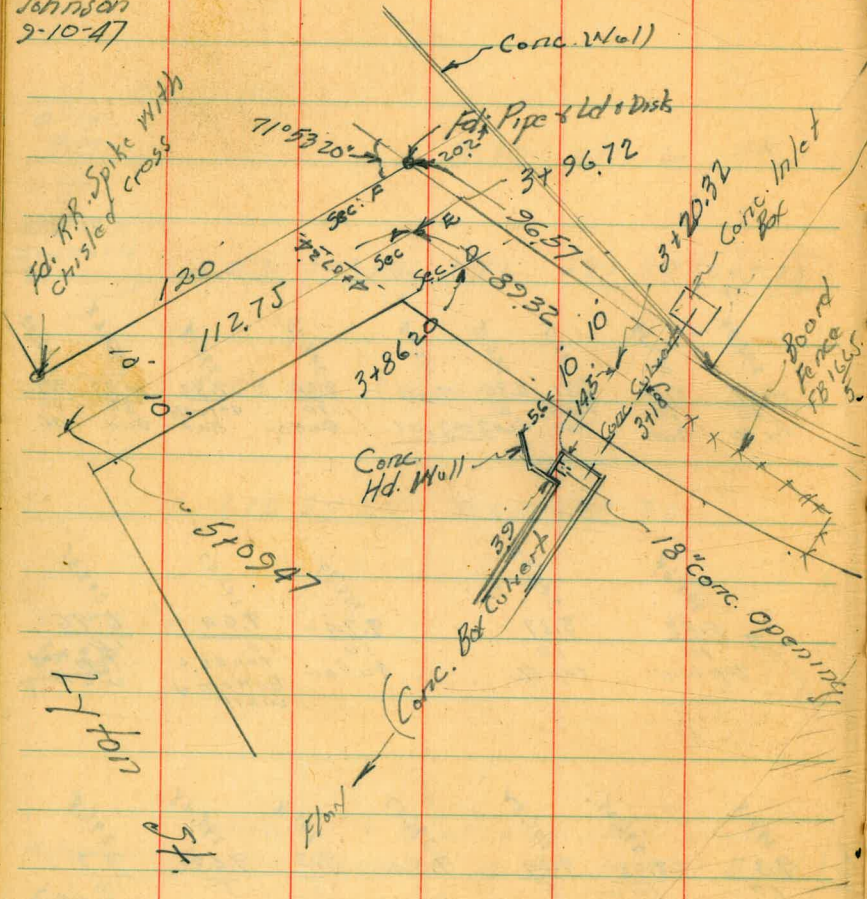
299.64	296.72	295.37	295.47	296.35
5.17	8.39	9.74	9.64	6.76
10	10	10	10	10
top wall	top of	Butt	top of + Bottom of wall	top of wall

295.8	296.25	295.84	295.57	295.8	295.8
9.13	8.86	9.29	9.54	9.3	9.63
10	10	5	5	5	5
Bottom of wall	Butt + Ground	Par.	par.	Grd.	par
					Ground

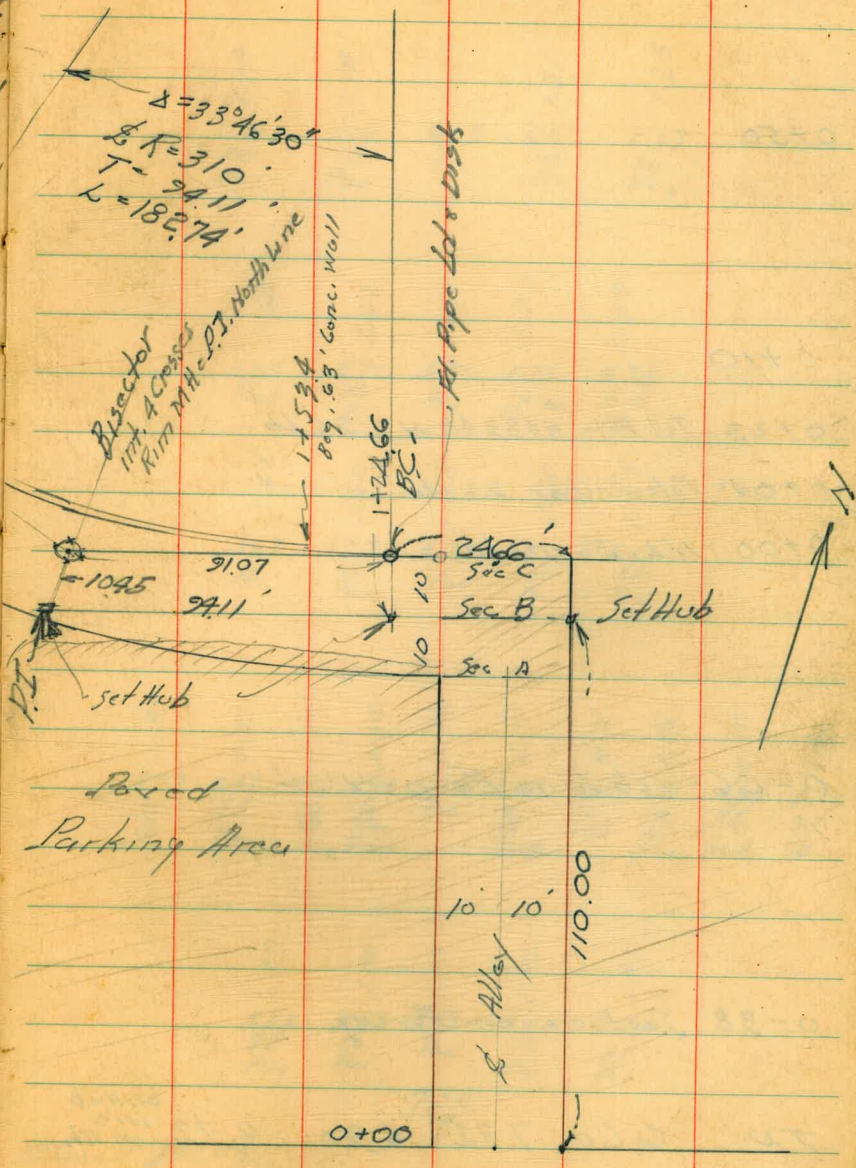
297.9	297.3	297.2	297.4	298.1	298.95	298.95
7.2	7.8	7.9	7.7	7.0	6.16	6.16
10	5	5	5	5	10	10
				Grd.	Bottom of wall	top wall

Walker
Hendricks
Becker
Johnson
9-10-47

CROSS SECTION ALLEY Block 3
Harbor Villa, Block 4 - Pendleton Ave.



indexed
C.S.K.



Paved
Parking Area

Barnett

Arc.

0+50

0+10

0+23 Tel Pole # 448348-H 96' Lt

0+04 Pole Anchor 22' Lt.

0+00 - NL Barnett

0-06 - Ncb line Barnett St

0-38 Section on Paving.

TP 6.60 7.32 6.90 0.72 on Hub
1410
on Rt.

6.57 7.62 1.05 B.M. B.P.

1.18	1.18	1.19	1.21	1.25
6.14 20 Pov.	6.14 10 Pov.	6.13 Pov.	6.11 10 Pov.	6.07 20 Pov.

1.68	1.62	1.61	1.57	1.57
5.64 Pov.	5.70 10 Pov.	5.71 Pov.	5.75 10 Pov.	5.75 20 Pov.

1.65	1.60	1.55	1.60	1.67
5.67 Pov.	5.72 10 Pov.	5.77 Pov.	5.72 10 Pov.	5.66 35 Pov.

1.55	0.87	1.05	0.96	0.92	1.01	0.91	1.01	0.97	1.61
5.77 35 Cb	6.45 35 Pov.	6.27 10 Cb	6.36 10 Pov.	6.40 Pov.	6.31 0 Cb	6.41 10 Gut	6.31 10 Cb	6.35 35 Gut	5.71 35 Cb
		Drive	Drive		Drive		Drive		

1.77	1.80	1.83	1.82	1.87
5.53 35 Pov.	5.52 10 Pov.	5.49 Pov.	5.50 10 Pov.	5.45 35 Pov.

7.32
7

Marked BM #21
in Hd. Wall Inlet FB 1665
6

Alley Block 3

1+534 = Beg. ^{0.63} Conc. Wall

1+24.66 = BC. Pt.

-59
= 11188 448329-H 8' Pt - Tol Pole

Sec. C

1+20 = N.L. Alley Section on N.L. Alley

1+10 = Alley to West Sec. B

T.P. 4.18 4.20 6.60 0.72

1400 Sec A

7.32
7

4

2

R

64

0.88	0.68	1.20	2.00	1.00	2.67
402	422	3.7	2.9	3.9	2.23
20	55		10	10	10
Pov.	290 Pt.			Bottom Wall	on Wall

0.85	0.71	1.00	1.10	0.80
405	419	3.9	3.8	4.1
20	6		10	20
Pov.	Pov.			

0.70	0.60	0.70	1.10
4.2	4.3	4.2	3.8
10		10	20
N.L.		EL.	

0.80	0.80	0.67	0.80	1.20
4.1	4.1	4.23	4.1	3.7
10	10	Pov.	10	20
		4.90		

0.85	0.84	0.90	0.97
647	648	642	6.35
10		10	20
Pov.	Pov.	Pov.	Pov.
		7.32	
		7	

Alley Block 3

2+65

1.5	1.5	0.9	0.0	-0.2	-1.4	2.55
3.4 20	3.4 10	4.0 14	4.9	5.1 10	6.3 10	2.35 10
					Bottom Well	on Wall

2+40

1.5	1.3	0.8	0.4	2.59
3.4 20	3.6 10	4.1	4.5 10	2.31 10
				on Wall

2+16 = End Post in Parking Lot on Lt.

0.72	0.9	0.49	1.2	0.4	2.58
4.18 15 Post	4.0 10	4.1 32 Kim MH	3.7 2	4.5 10	2.32 10 on Wall

2+00

0.93	0.78	0.8	0.8	0.9	2.60
3.97 20 Post	4.12 206 Edge Post	4.1 10	4.1	4.0 10	2.30 Top Wall

1+75

4.20
10

0.87	0.66	0.90	0.90	-0.1	2.61
4.03 20	4.24 5	4.0	4.0 10	5.0 10 Bottom Wall	2.29 10 Top Wall
		4.90 10			

Alley Block B

3+394 Δ in Conc. Wall on Rt.

3+27

~~3+394 = Δ in Conc. Wall on Rt.~~

3+18

3+11 = Tel Pole 458211-H 2A Rt.

3+0740 = E.C.

2+85

4.90
/

2.5 20	2.8 10	3.4	4.7 10	2.23 10 on Wall
-----------	-----------	-----	-----------	-----------------------

6.7 20	7.1 10	5.8	5.1 10	2.29 10 on Wall
-----------	-----------	-----	-----------	-----------------------

-2.69	1.00	-0.9	-0.9	-0.1	-0.97	-0.1	2.57
7.59 16 Floor 18" opening	3.90 14.5 on Top Conc. Box	5.8 14	5.8	5.0	5.37 4 on Top Conc. cutout	5.0 10	2.33 10 on Wall

4.4 20	4.4 10	4.4	5.4 1	5.4	6.4 10 Bottom Wall	2.30 10 on Wall
-----------	-----------	-----	----------	-----	-----------------------------	-----------------------

4.5 20	4.5 10	5.0	5.3 10	2.27 10 on Wall
-----------	-----------	-----	-----------	-----------------------

Alley Block 3

4+07.24

1.7 30	3.2	3.1 20	1.8	6.5 10.52	-1.6	6.9	-2.0	6.1 10.52	-1.2	5.1 13	-0.2	5.1 20	-0.2
-----------	-----	-----------	-----	--------------	------	-----	------	--------------	------	-----------	------	-----------	------

Sec. F

6.6 10.52	-1.7	6.3	-1.4	5.3 10.52	-0.4	5.3 20	-0.4
--------------	------	-----	------	--------------	------	-----------	------

3+96.72 Sec E

6.8 10.52	-1.9	6.7	-1.8	5.7 10.52	-0.8	5.4 20	-0.5
--------------	------	-----	------	--------------	------	-----------	------

3+86.20 = Sec D

6.3 10.52	-1.4	6.4	-1.5	5.3 10.52	-0.4	5.4 23	-0.5	2.31 23 on Woll	2.59
--------------	------	-----	------	--------------	------	-----------	------	--------------------------	------

3+65

1.6 20	3.3	2.0 10	2.90	4.09	4.20	5.2 10	-0.3	5.4 17	-0.5	2.34 18 on Woll	2.56
-----------	-----	-----------	------	------	------	-----------	------	-----------	------	--------------------------	------

Alley Block 3

4

5

87

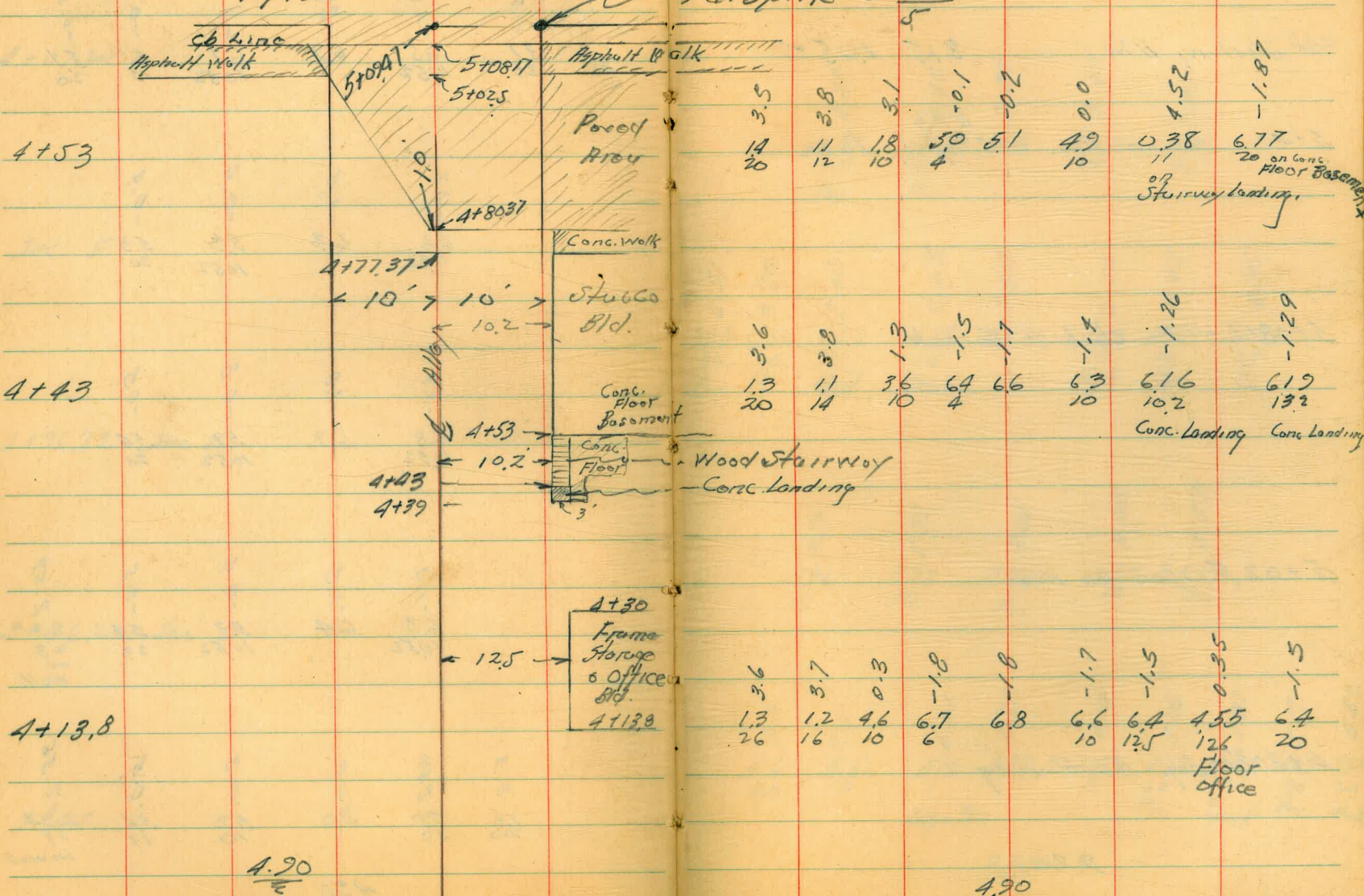
68

TP 5.05 7.20 0.75 4.15

Lytton

St.

R.R. Spike FB 1665



69

71

Location + Levels on curbs + walks
and Drives - Gravilla St. - Tyrian to
Draper. - curb line on Both sides will
be base lines.

0+54 = Beg. walk on S.

0+50 = Ely. Dr. on N.

0+35 = Wly. Conc. Dr. on N.

0+15.5 = 3' Conc. walk on S.

0+10 = E.C. 10' Rad. Ret.

0+00 = E. cb. Tyrian St.

6.94 87.27 0.52 80.33

10.13 80.85 9.44 70.72

5.26 80.16 74.90

S.E. BP. Gravilla
+ Tyrian

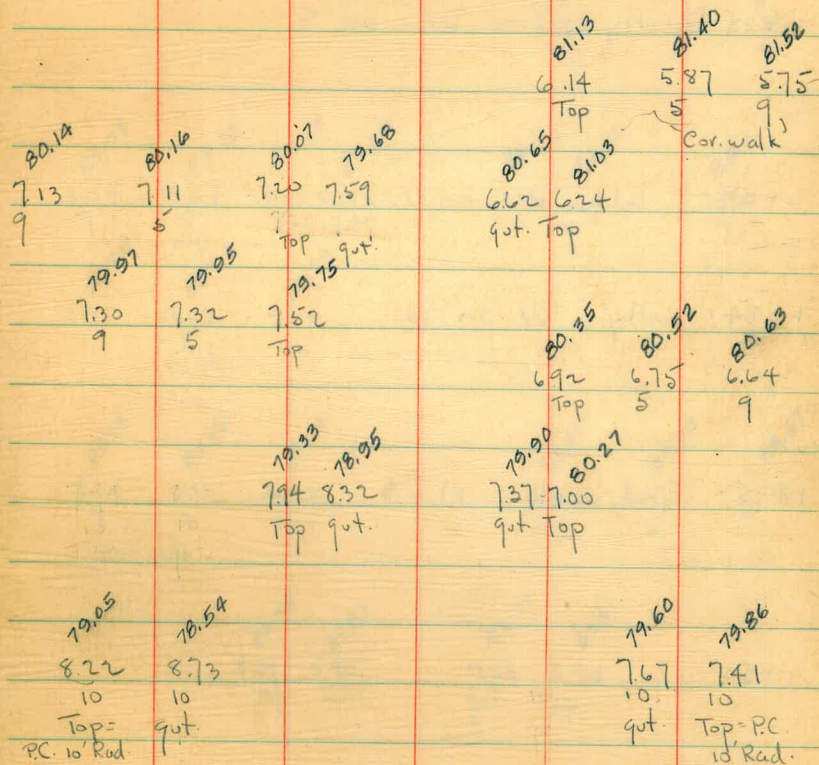
sw. Kolmar
+ LaTolle Blvd.

Indexed
~~98~~

N. curb

S. curb

72



87.27

T.P.

1.50 85.77

2+31 = Ely. Dr. on S.

2+15 = Wly. Conc. Dr. on S.

2+04 = Ely. Dr. on N.

1+84 = Wly. Dr. on N.

1+75 = End walk - N. + S.

1+50

1+14 = Beg. walk on N.

1+00

N. ab.

S. cb.

73

85.32	85.45	85.66
1.95	1.82	1.61
Top	5	9
84.93	85.12	85.40
2.34	2.15	1.87
Top	5	9

83.73	83.70	83.66	83.22
3.54	3.57	3.61	4.05
9	5	Top	gut.
83.29	83.24	83.23	
3.98	4.03	4.04	
9	5	Top	
	on edge		

84.11	84.66	85.1
3.16	2.61	2.2
gut	Top	9
		Lawn

83.23	83.16	83.03
4.04	4.11	4.24
9	5	Top
Cor. walk		

83.97	84.32	84.47
3.30	2.95	2.80
Top	5	9
		Cor. Walk

82.38	81.87
4.89	5.40
Top	gut.

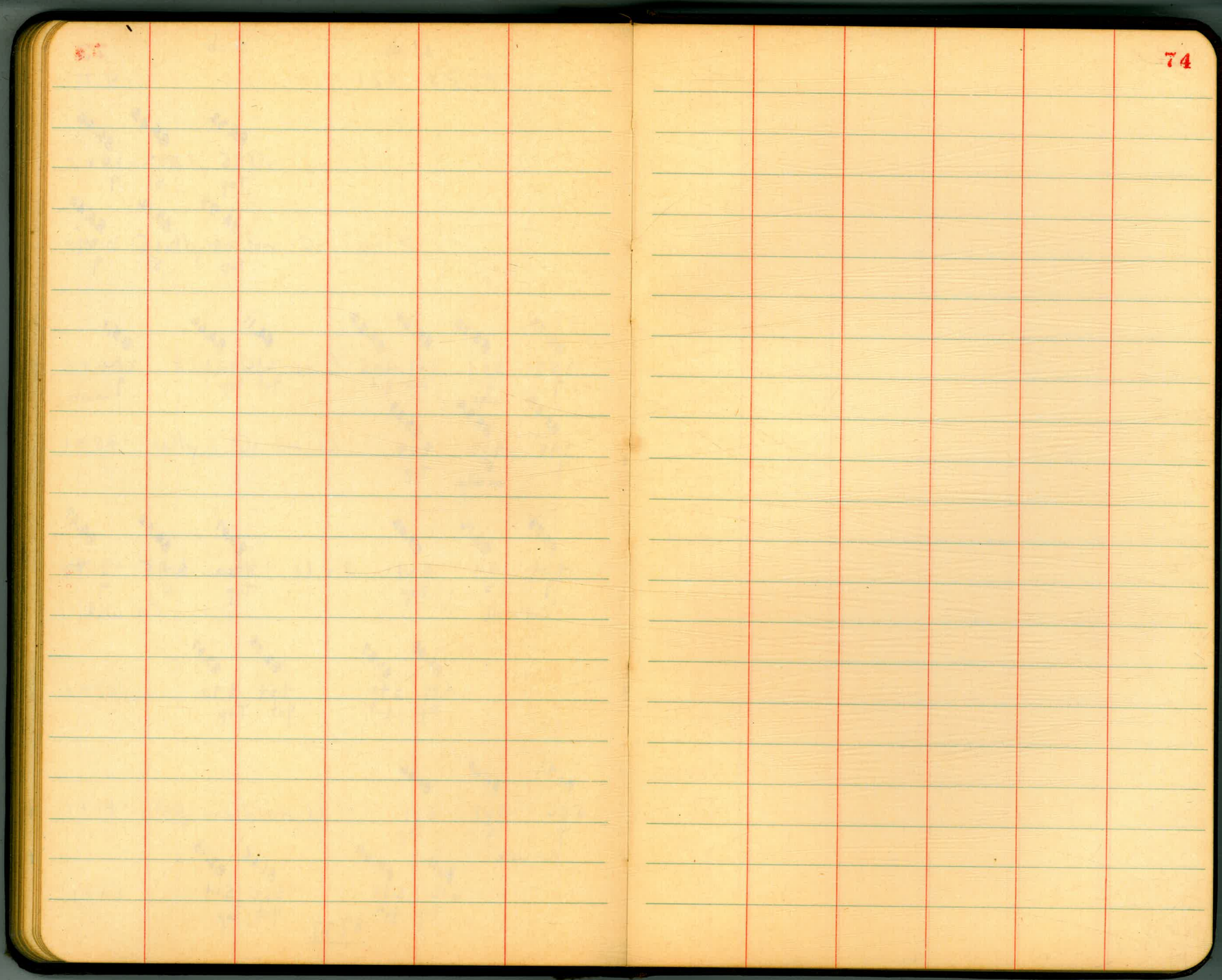
82.13	83.37
4.54	3.70
gut	Top

81.71	81.60	81.46
5.56	5.67	5.81
9	5	Top
Cor. walk		

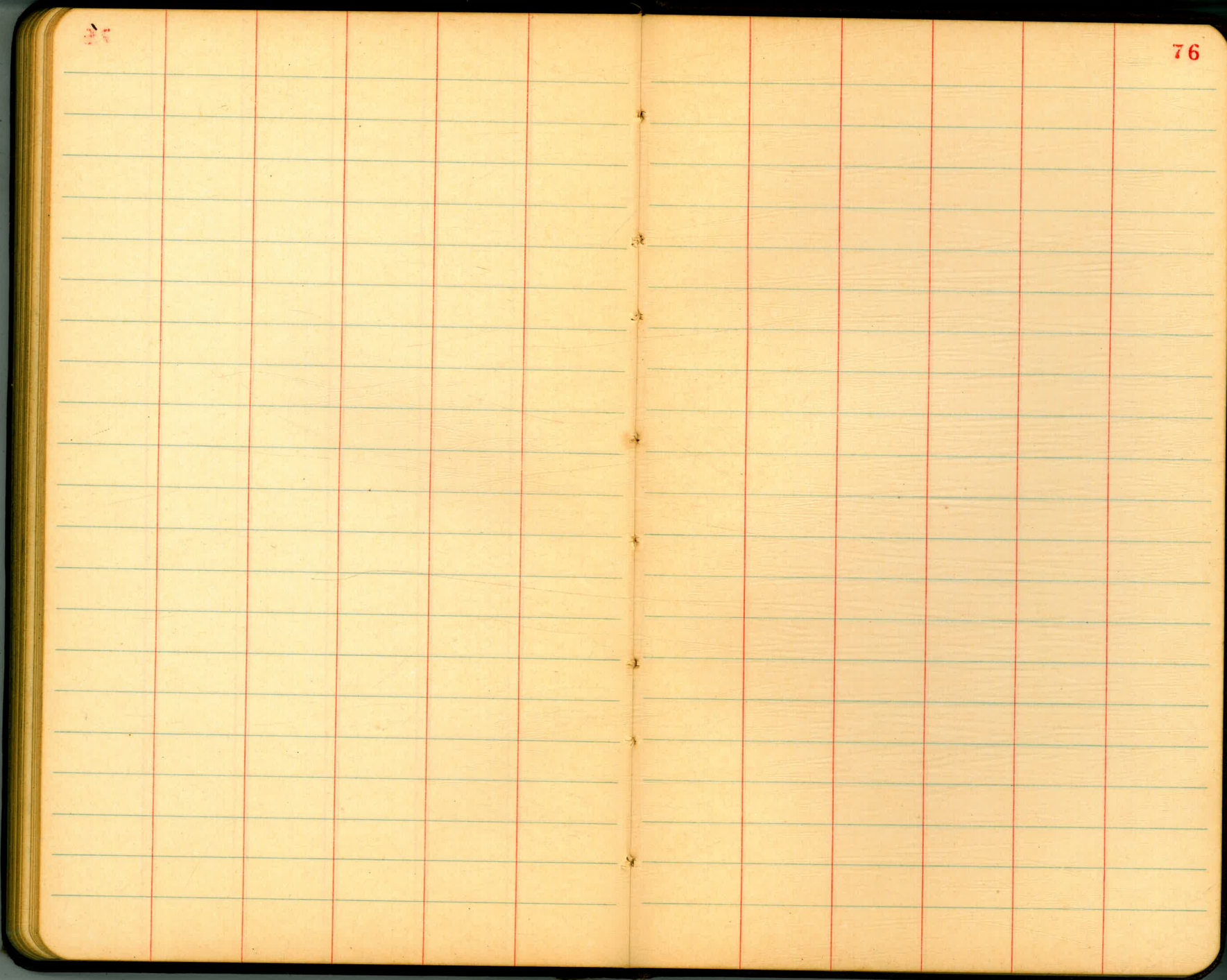
81.11	80.64
6.16	6.54
Top	gut

81.65	82.13
5.62	5.14
gut	Top

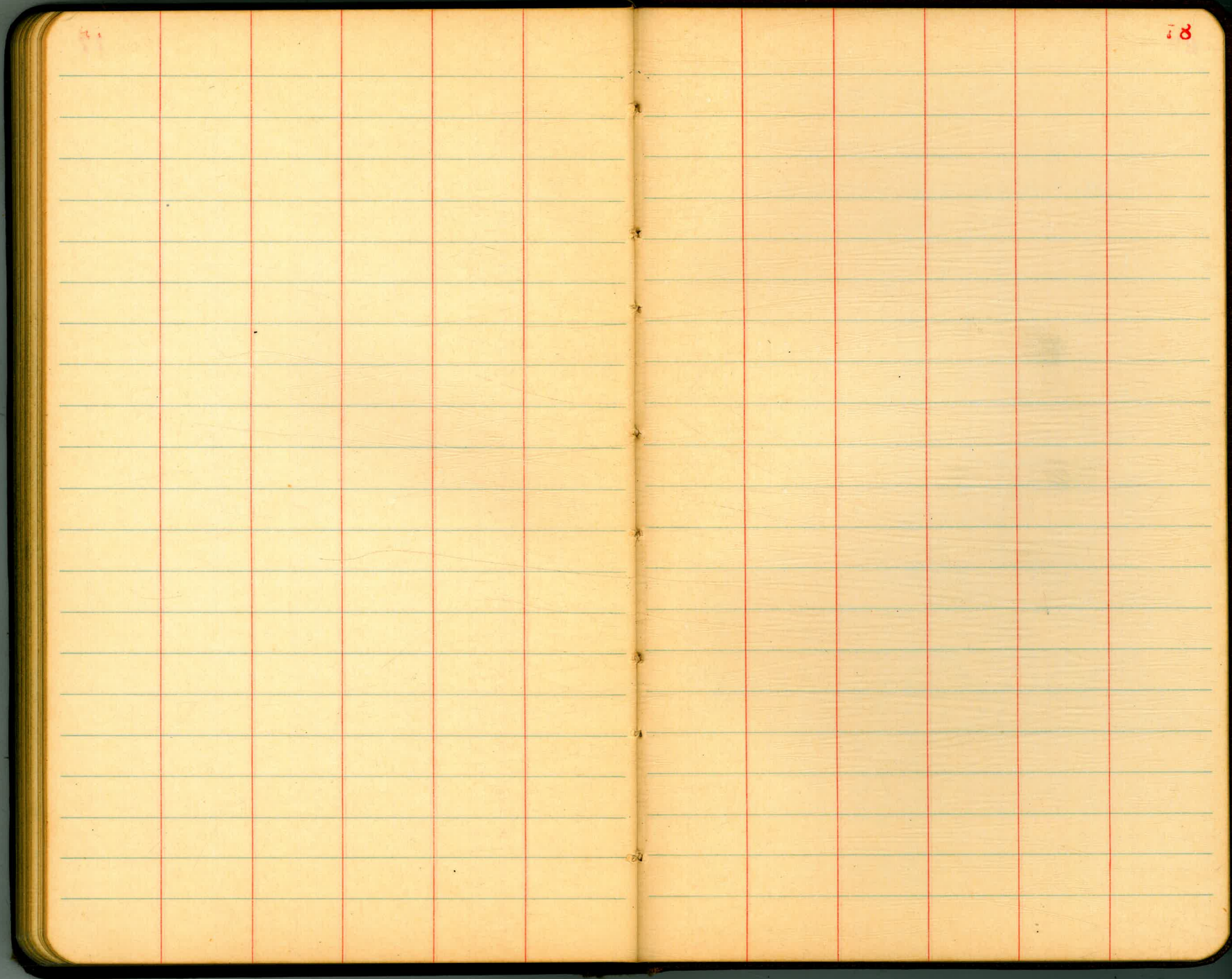
87.27



The image shows an open notebook with two facing pages. Both pages are cream-colored and feature light blue horizontal ruling. Vertical red lines create margins on both sides of each page. The notebook is bound in the center with four visible stitches. The pages are blank, with no handwriting or printed text. The page number '74' is faintly visible in the top left corner of the left page, and '75' is visible in the top right corner of the right page.



The image shows an open notebook with two facing pages. Both pages are cream-colored and feature light blue horizontal ruling. Each page is bounded by two vertical red lines, creating a central column and two side margins. The pages are completely blank, with no handwriting or printed text. The notebook is bound in the center, and a dark, possibly black, cover is visible around the perimeter of the pages. The page number '77' is printed in red ink in the top right corner of the right page and the top left corner of the left page.



LETZEL'S RAILROAD CURVE

EDUCATIONAL TABLE



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CHAPTER III

CHAPTER IV

CHAPTER V

CHAPTER VI

CHAPTER VII

CHAPTER VIII

CHAPTER IX

CHAPTER X

24

301
99.38
3.63

DISTANCES FROM CENTER OF ROADWAY FOR
CROSS-SECTIONING.

Roadway 16 feet wide. Side Slopes 1 on 1 1/2
For Single Track Embankment.

H	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	H
0	8.0	8.2	8.3	8.5	8.6	8.8	8.9	9.1	9.2	9.4	0
1	9.5	9.7	9.8	10.0	10.1	10.3	10.4	10.6	10.7	10.9	1
2	11.0	11.2	11.3	11.5	11.6	11.8	11.9	12.1	12.2	12.4	2
3	12.5	12.7	12.8	13.0	13.1	13.3	13.4	13.6	13.7	13.9	3
4	14.0	14.2	14.3	14.5	14.6	14.8	14.9	15.1	15.2	15.4	4
5	15.5	15.7	15.8	16.0	16.1	16.3	16.4	16.6	16.7	16.9	5
6	17.0	17.2	17.3	17.5	17.6	17.8	17.9	18.1	18.2	18.4	6
7	18.5	18.7	18.8	19.0	19.1	19.3	19.4	19.6	19.7	19.9	7
8	20.0	20.2	20.3	20.5	20.6	20.8	20.9	21.1	21.2	21.4	8
9	21.5	21.7	21.8	22.0	22.1	22.3	22.4	22.6	22.7	22.9	9
10	23.0	23.2	23.3	23.5	23.6	23.8	23.9	24.1	24.2	24.4	10
11	24.5	24.7	24.8	25.0	25.1	25.3	25.4	25.6	25.7	25.9	11
12	26.0	26.2	26.3	26.5	26.6	26.8	26.9	27.1	27.2	27.4	12
13	27.5	27.7	27.8	28.0	28.1	28.3	28.4	28.6	28.7	28.9	13
14	29.0	29.2	29.3	29.5	29.6	29.8	29.9	30.1	30.2	30.4	14
15	30.5	30.7	30.8	31.0	31.1	31.3	31.4	31.6	31.7	31.9	15
16	32.0	32.2	32.3	32.5	32.6	32.8	32.9	33.1	33.2	33.4	16
17	33.5	33.7	33.8	34.0	34.1	34.3	34.4	34.6	34.7	34.9	17
18	35.0	35.2	35.3	35.5	35.6	35.8	35.9	36.1	36.2	36.4	18
19	36.5	36.7	36.8	37.0	37.1	37.3	37.4	37.6	37.7	37.9	19
20	38.0	38.2	38.3	38.5	38.6	38.8	38.9	39.1	39.2	39.4	20
21	39.5	39.7	39.8	40.0	40.1	40.3	40.4	40.6	40.7	40.9	21
22	41.0	41.2	41.3	41.5	41.6	41.8	41.9	42.1	42.2	42.4	22
23	42.5	42.7	42.8	43.0	43.1	43.3	43.4	43.6	43.7	43.9	23
24	44.0	44.2	44.3	44.5	44.6	44.8	44.9	45.1	45.2	45.4	24
25	45.5	45.7	45.8	46.0	46.1	46.3	46.4	46.6	46.7	46.9	25
26	47.0	47.2	47.3	47.5	47.6	47.8	47.9	48.1	48.2	48.4	26
27	48.5	48.7	48.8	49.0	49.1	49.3	49.4	49.6	49.7	49.9	27
28	50.0	50.2	50.3	50.5	50.6	50.8	50.9	51.1	51.2	51.4	28
29	51.5	51.7	51.8	52.0	52.1	52.3	52.4	52.6	52.7	52.9	29
30	53.0	53.2	53.3	53.5	53.6	53.8	53.9	54.1	54.2	54.4	30
31	54.5	54.7	54.8	55.0	55.1	55.3	55.4	55.6	55.7	55.9	31
32	56.0	56.2	56.3	56.5	56.6	56.8	56.9	57.1	57.2	57.4	32
33	57.5	57.7	57.8	58.0	58.1	58.3	58.4	58.6	58.7	58.9	33
34	59.0	59.2	59.3	59.5	59.6	59.8	59.9	60.1	60.2	60.4	34
35	60.5	60.7	60.8	61.0	61.1	61.3	61.4	61.6	61.7	61.9	35
36	62.0	62.2	62.3	62.5	62.6	62.8	62.9	63.1	63.2	63.4	36
37	63.5	63.7	63.8	64.0	64.1	64.3	64.4	64.6	64.7	64.9	37
38	65.0	65.2	65.3	65.5	65.6	65.8	65.9	66.1	66.2	66.4	38
39	66.5	66.7	66.8	67.0	67.1	67.3	67.4	67.6	67.7	67.9	39
40	68.0	68.2	68.3	68.5	68.6	68.8	68.9	69.1	69.2	69.4	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 41.9. 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 41.9 + (20 - 16) ÷ 2 or 2 ft. added to 41.9 = 43.9. For slopes of 1 on 1 see inside of front cover.

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