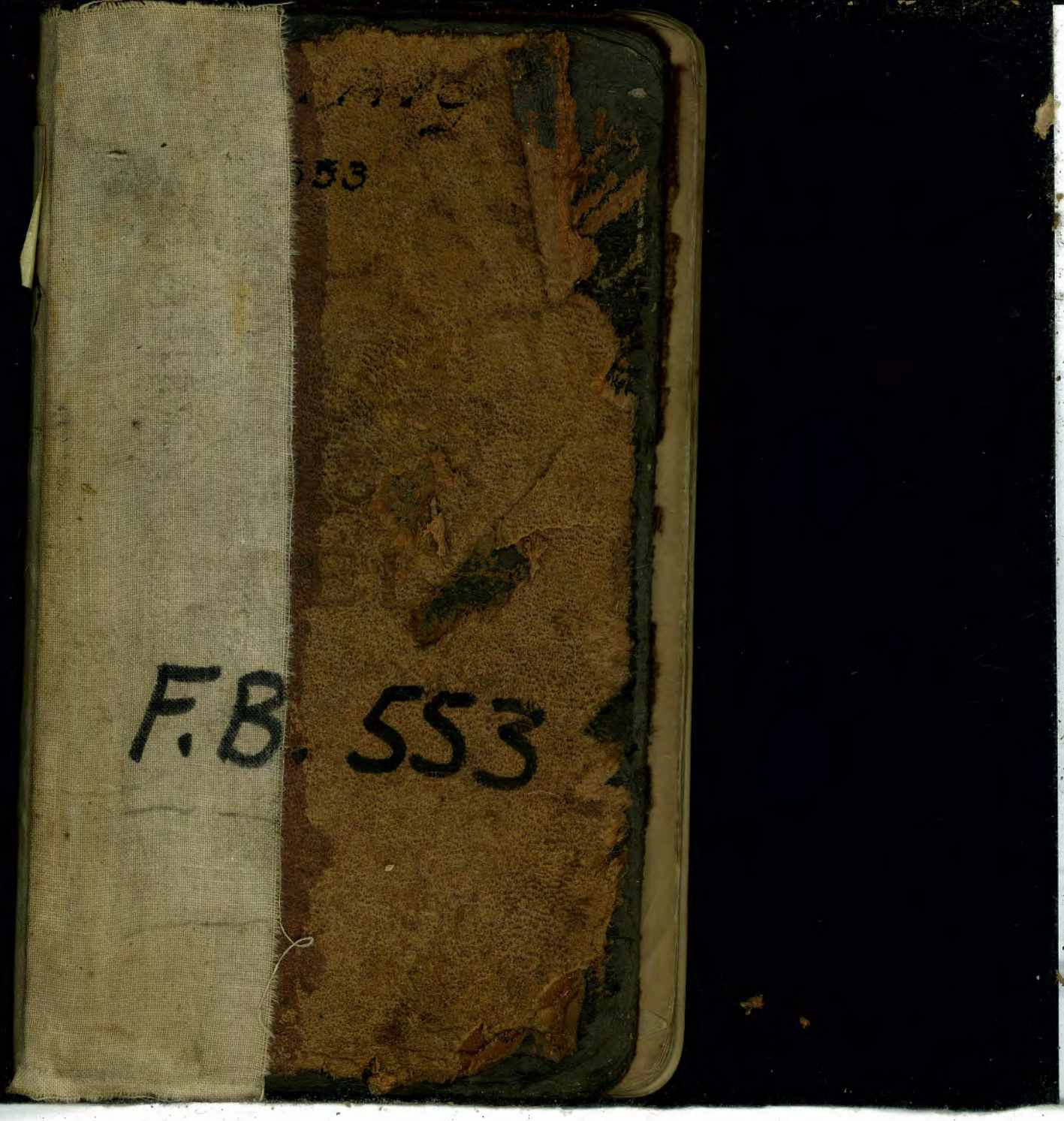
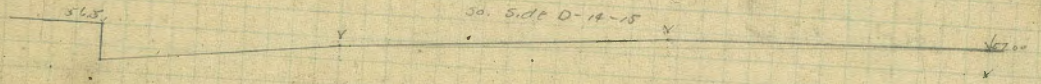
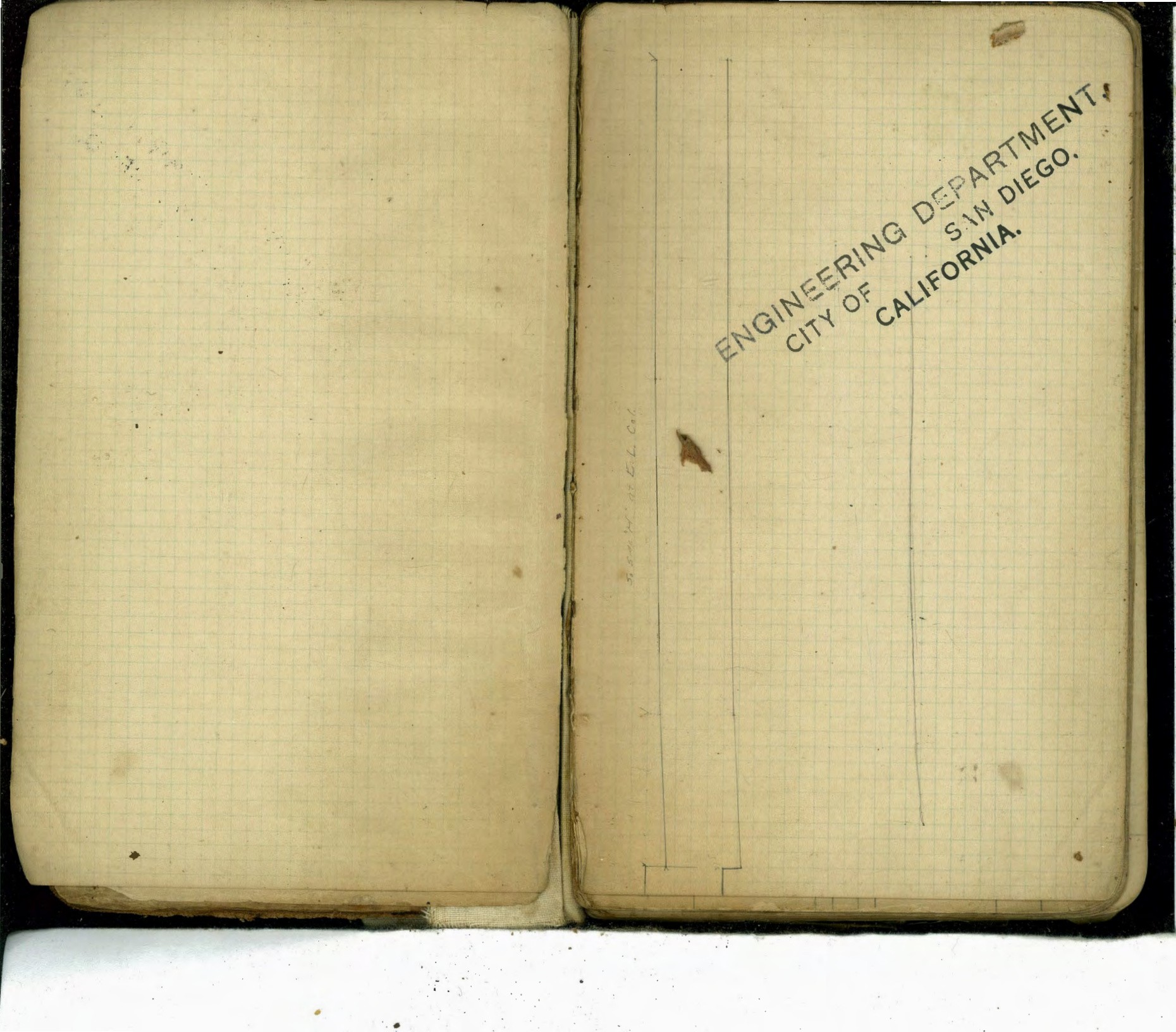

F.B. 553


So. Side 0-14-15

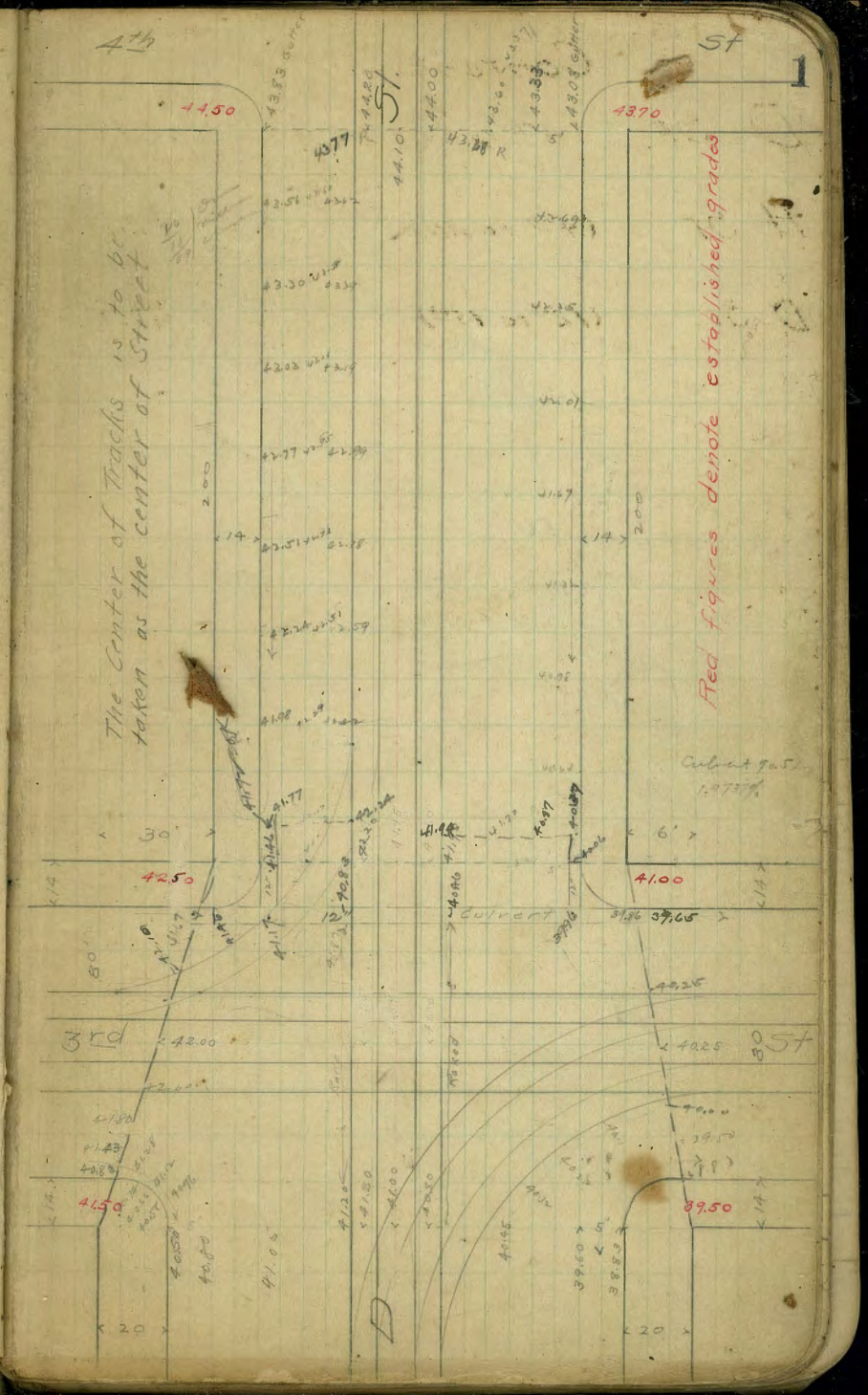

ENGINEERING DEPARTMENT,
CITY OF SAN DIEGO,
CALIFORNIA.

Contents –

D St (4th to Col.) Page 1.

H St. (4th to Ath.) 12.

D St (12th to 15th) 23.



39.45 BM S.W. 3d & D pvg. rt.
2.87
42.32 HI

39.60 / 2.72 — 40.50 / 1.82 — 40.80 / 1.52 — 38.83 / 3.49 — 40.45 / 1.86

36.70 / 5.62 — 36.50 / 5.82 — 35.83 / 6.49 — 35.33 / 6.99 — 36.45 / 5.87

35.00 BM
4.58
39.58 HI

36.70 / 5.62 — 35.62 / 3.96 — 34.83 / 4.75 — 34.33 / 5.25

35.33 — 35.83 / 3.75 — 36.45 / 3.13 — 36.70 / 2.88 — 35.30 / 4.28 — 35.45 / 4.13 — 35.50 / 4.08 — 35.30 / 4.28 — 34.83 / 4.75

35.00
5.06
40.06

35.43 / 4.15 — 35.56 / 4.02 — 35.70 / 3.88 — 34.43 / 5.15 — 35.00 / 4.58 — 35.04 / 4.50 — 35.7 / 4.41 — 35.25 / 4.33

34.67 / ~~5.39~~ 5.45 — 35.4 / 36.58 — 39.45 / 5.07 / 44.52 — 40.50 / 4.02

35.00
5.12
40.12 HI

39.45 BM
3.59
43.04 HI

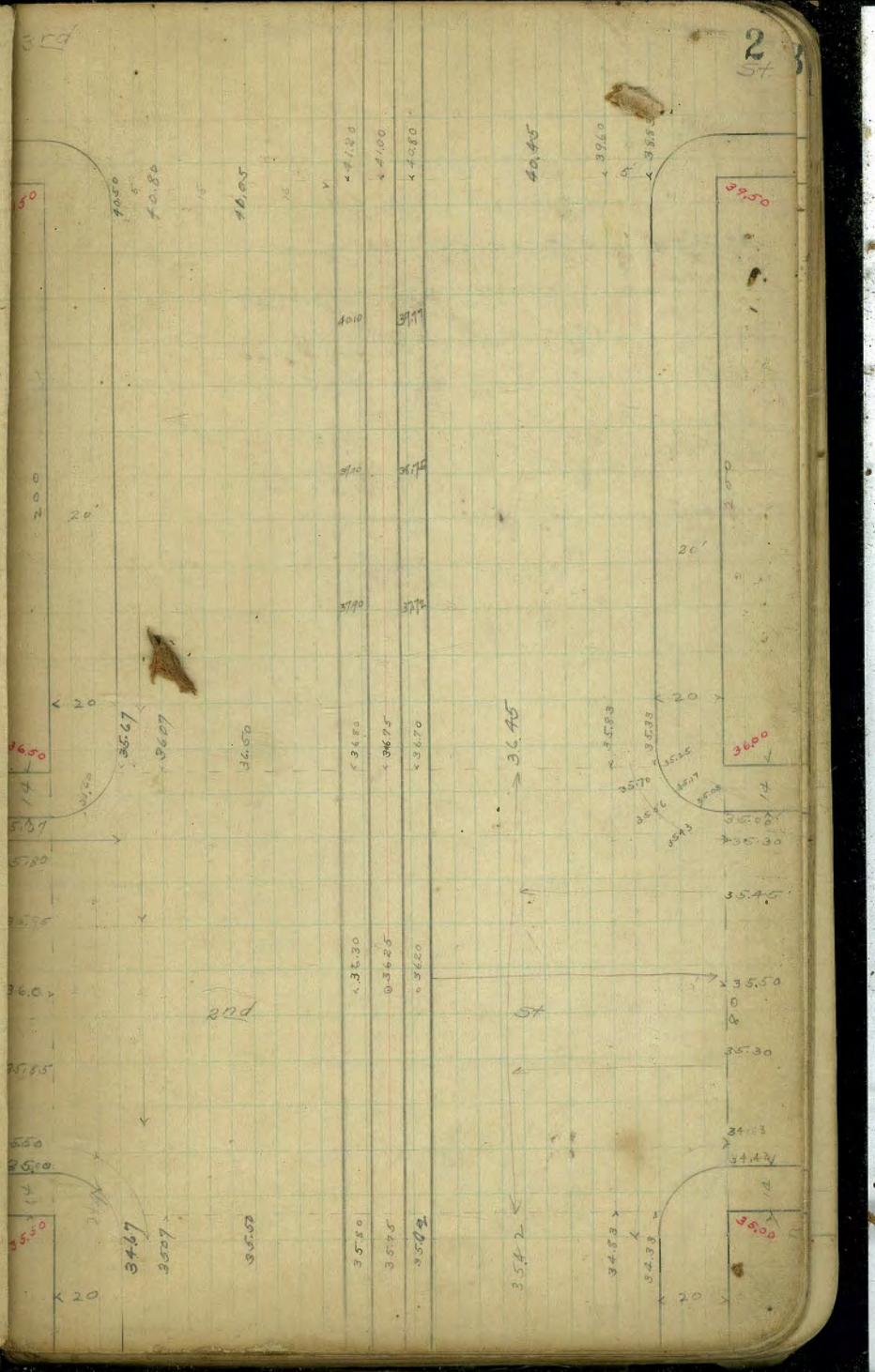
40.50 / 2.54 — 35.67 / 7.37 — 36.07 / 6.97 — 36.50 / 6.54 — 36.80 / 6.24

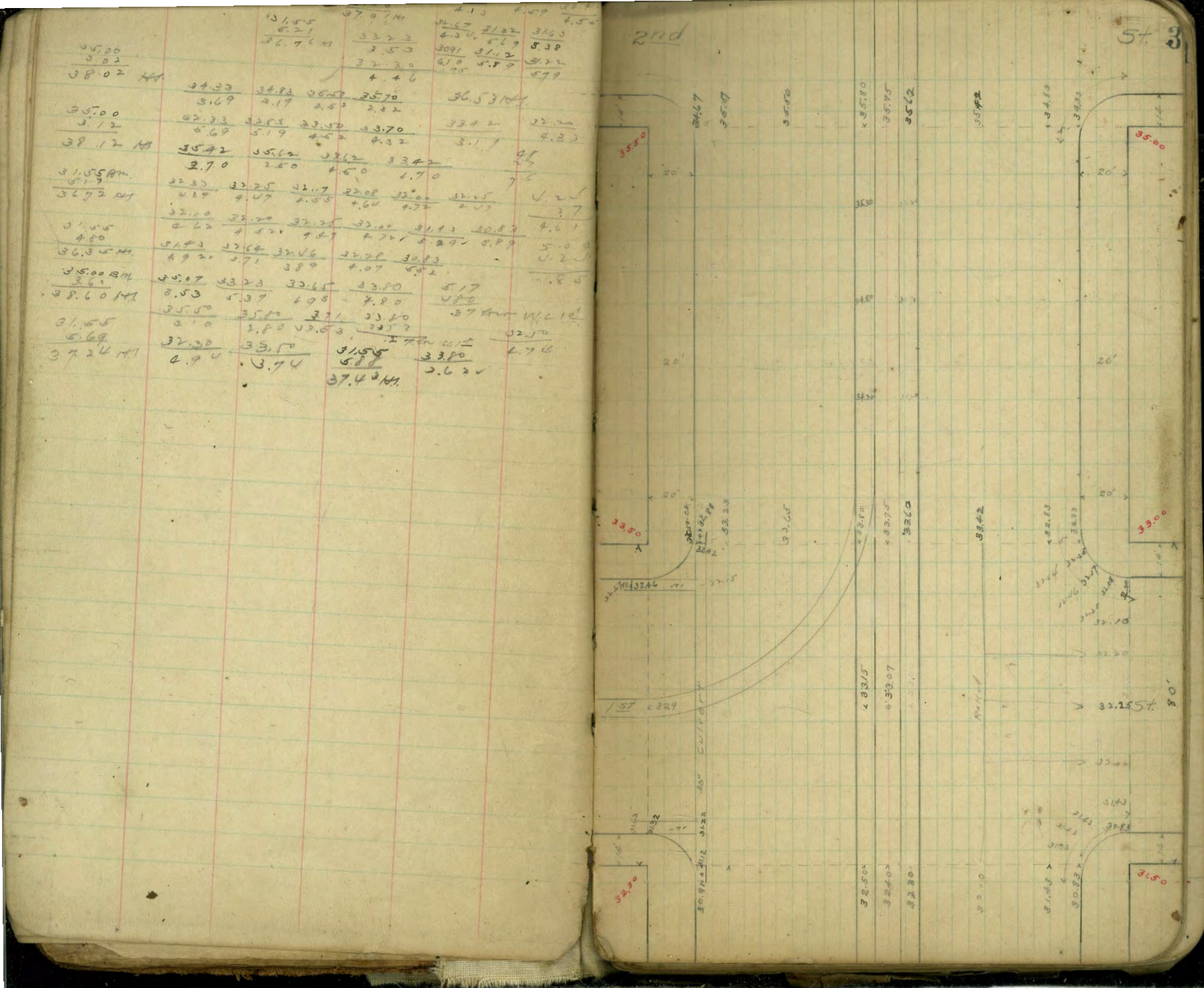
40.80 / 2.24 — 41.05 / 1.99 — 41.20 / 1.84

35.00 BM
5.24
40.24

35.80 / 4.44 — 35.95 / 4.29 — 36.00 / 4.24 — 35.85 / 4.39 — 35.50 / 4.74 — 35.00 / 5.24 — 34.92 / 5.32

35.67 / 4.57 — 35.60 / 4.64




2nd
St. 3
35.50
35.00
33.50
33.00
32.50
31.50
1st
Culvert
Raised
32.25 St.
80'
20'

31.548 S.W. 1st plgrt.

31.55 B.M.
3.34
34.89 HI

30.83 / 4.06 — 31.43 / 3.46 — 32.10 / 2.79 — 32.30 / 2.59

29.33 / 5.56 — 29.83 / 5.06 — 30.50 / 4.39 — 30.70 / 4.19

31.55
4.98
36.53 HI

29.34
4.69
34.03 HI

29.33 / 4.70 — 29.68 / 4.35 — 29.75 / 4.28 — 29.70 / 4.33 — 29.40 / 4.63

29.25 / 4.78 — 29.33 / 4.70 — 28.83 / 5.20 — 29.51 / 4.52 — 29.62 / 4.41 — 29.73 / 4.30 — 29.00 / 5.03 — 29.18 / 4.94 — 29.17 / 4.86

29.34
5.03
34.37 HI

29.17 / 5.20 — 29.83 / 4.54 — 31.60 / 3.70 — 31.60 / 5.64 — 32.20 / 5.04 — 32.50 / 4.74

37.24 HI

30.23 / 4.05 — 30.67 / 3.61 — 30.80 / 3.48

29.34
4.94
34.28 HI

30.80 / 3.61 — 30.65 / 3.76 — 30.23 / 4.18 — 30.08 / 4.33 — 30.20 / 4.21 — 30.25 / 4.16

29.34
5.07
34.41 HI

30.10 / 4.31 — 29.73 / 4.68 — 29.57 / 4.84 — 30.02 / 4.39 — 30.25 / 4.16 — 29.83 / 4.58 — 29.33 / 5.08

29.77 / 4.64 — 29.30 / 5.11

29.342 S.W Front plgrt.

29.34
3.33
32.67 HT.

28.83 26.33 29.34 30.00 29.33
3.84 6.34 3.42 2.76 3.43
32.76 HT.

29.34
3.23
32.57 HT.

30.20 27.70 26.83 27.50
2.37 4.87 5.93 5.26

4.73
26.30
31.03 HT.

26.23 26.60 26.75 26.75 26.70 26.57
4.80 4.43 4.28 4.54 4.59 4.72

4.98
31.28 HT.

26.62 26.70 26.76 26.83
4.66 4.59 4.50 4.46

26.29 26.25 26.21 26.17 25.83
4.99 5.03 5.07 5.11 5.45

26.30
5.62
31.92 HT.

26.83 25.67
5.09 6.25

29.34
3.30
32.64 HT.

29.57 30.10 30.25 30.02 27.07 27.52 27.75
3.07 2.54 2.39 2.62 5.57 5.12 4.89

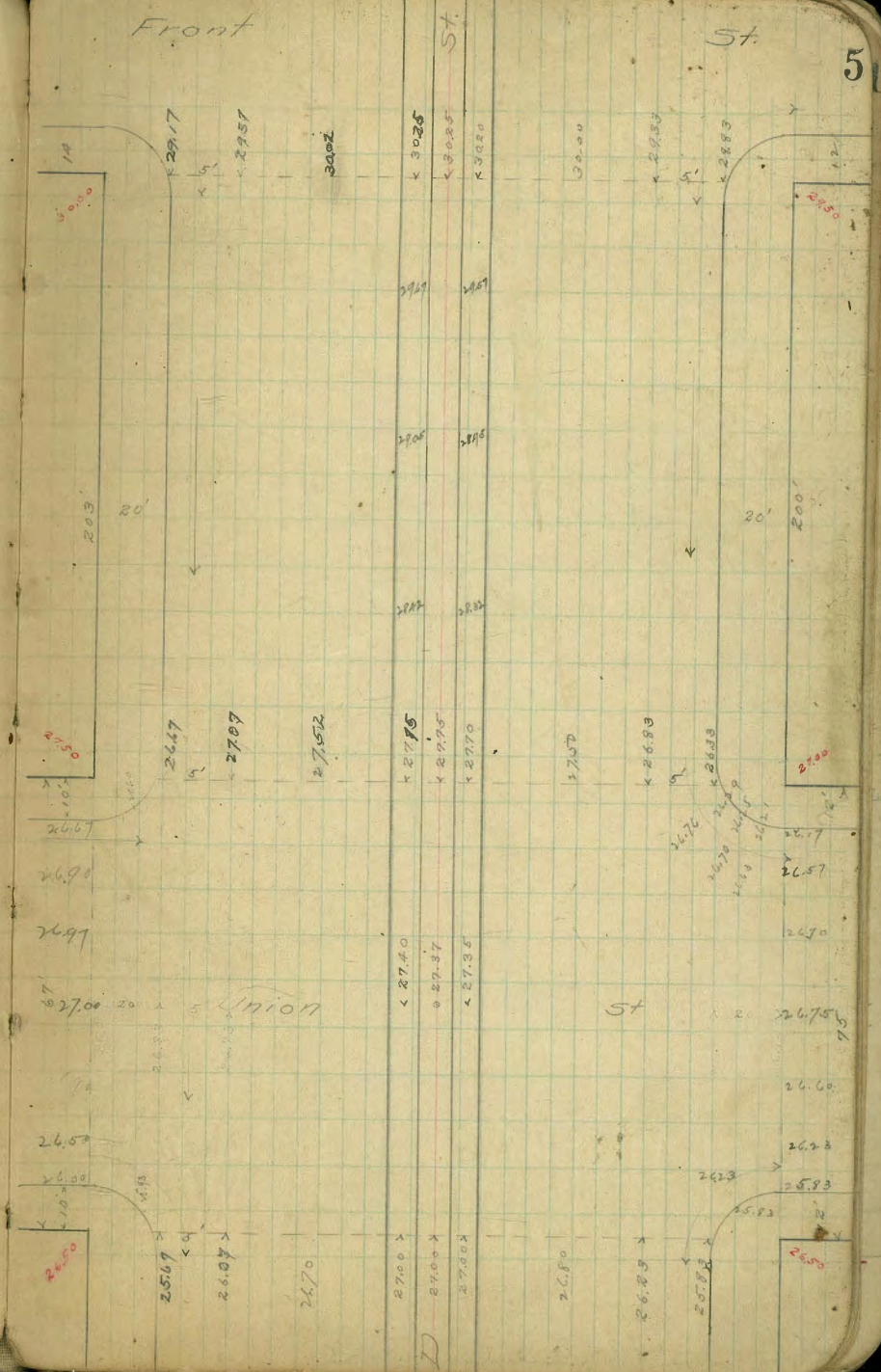
3.48 2.85
29.16 29.79

26.30
4.66
30.96 HT.

27.75 27.52 27.07 26.07 26.70 27.00
3.21 3.44 3.89 4.89 4.26 3.96

26.60 26.90 27.00 26.97 26.90 26.67 26.00 26.57
4.36 4.06 3.96 3.99 4.06 4.29 4.96 4.46

25.93 26.60
5.03 4.36



26.304 S.W. Union plg rt.

20.39 / 6.92 — 20.60 / 6.71 — 22.90 / 4.41 — 22.40 / 4.91

21.75 / 5.56 / 27.31 HI — 21.89 / 5.42 — 22.90 / 4.41 — 22.46 / 4.85 — 20.55 / 6.76 — 20.76 / 6.55 — 21.33 / 5.98 — 5.62 / 21.69

21.75 / 5.83 / 27.58 HI — 22.90 / 4.68 — 22.40 / 5.18 — 22.46 / 5.12 — 5.70 / 21.79

20.70 / 6.88 — 20.80 / 6.78 — 20.60 / 6.98 — 20.39 / 7.19

21.75 / 4.96 / 26.71 HI — 23.16 / 3.55 — 23.50 / 3.21 — 21.80 / 4.91 — 22.37 / 4.34 — 22.93 / 3.78

3.69 / 26.30 / 29.99 HI — 25.83 / 4.16

26.30 / 2.85 / 29.15 HI — 26.23 / 2.92 — 26.80 / 2.35 — 27.00 / 2.15 — 25.83 / 3.32

24.00 / 5.15 — 23.80 / 5.35 — 23.23 / 5.92 — 21.75 / 4.99 / 26.74 HI

21.80 / 4.94 — 22.60 / 4.14

21.75 / 5.15 / 26.90 HI — 22.30 / 4.60 — 24.00 / 2.90 — 22.85 / 3.89 — 22.80 / 3.94 — 22.70 / 4.04

5.57 / 23.66 — .14 for E-El. State

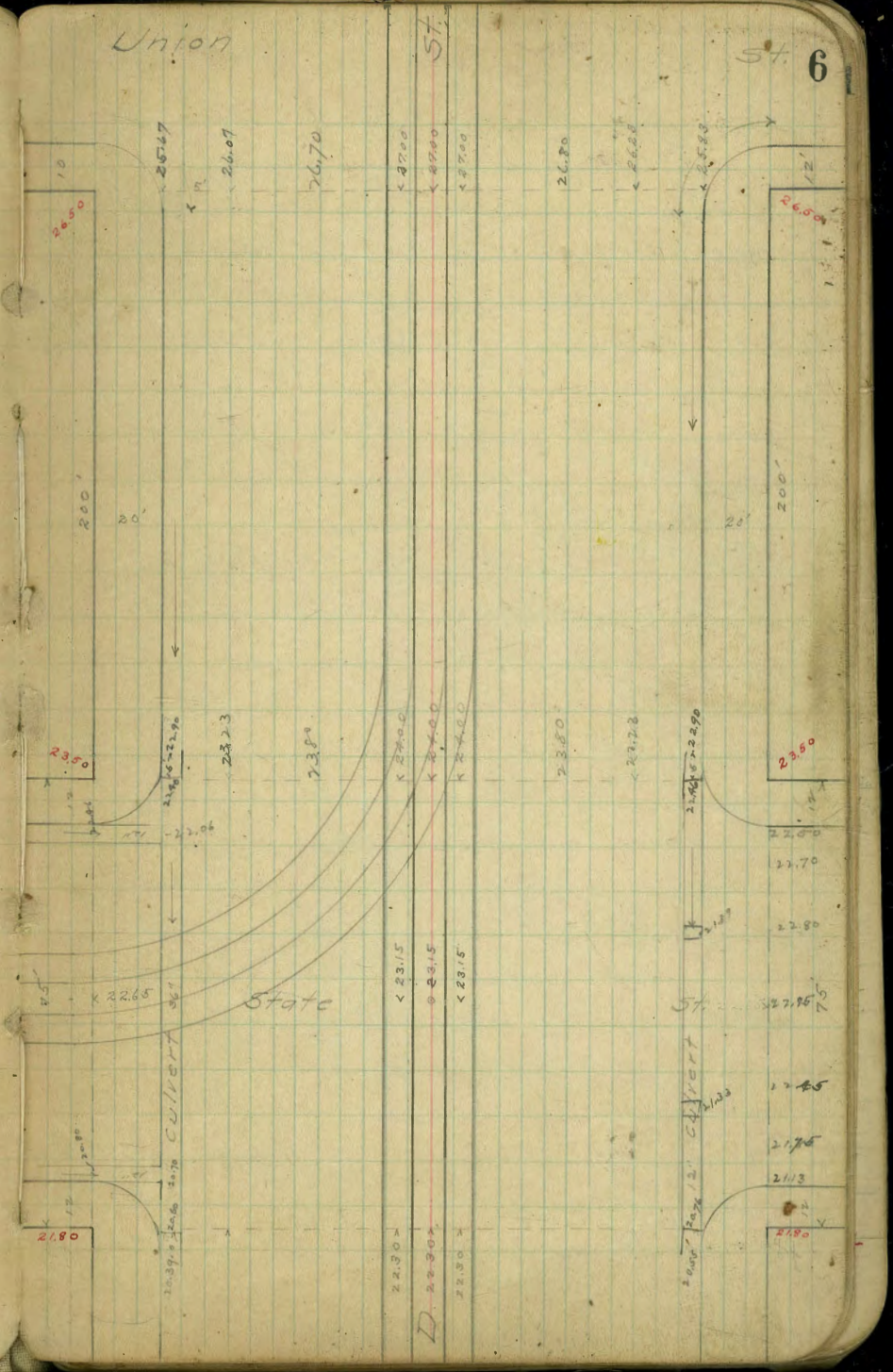
22.50 / 4.24 — 21.13 / 5.61 — 21.75 / 4.99

26.30 / 2.93 / 29.23 HI — 22.45 / 4.29

26.07 / 3.16 — 26.70 / 2.53 — 27.00 / 2.23 — 24.00 / 5.23 — 23.80 / 5.43 — 23.23 / 6.00

21.75 / 5.39 / 27.14 HI — 24.00 / 3.14 — 22.30 / 4.84

21.75 / 5.05 / 26.80 HI — 21.75 / 4.88 / 26.63 HI



21.747 S.W. State plgrt.

Intersection of Columbia Set from B. Mat Col
EL included

16.19
7.73
23.92

16.19
5.87
22.06 HT.

17.53 / 4.53 | 17.93 / 5.97 | 18.50 / 5.40 | 18.70 / 5.20 | 17.53 / 6.37 | 17.93 / 5.99 | 18.45 / 5.47 | 18.70 / 5.22

21.75
2.16
23.91 HT.

1.69 / 22.22 | 3.41 / 20.50 | 21.25 / 2.66 | 22.00 / 1.91 | 21.90 / 2.01 | 21.20 / 2.71

16.19 BM
5.49
21.68 HT.

16.10 / 5.58 | 16.50 / 5.18 | 17.00 / 4.68 | 17.25 / 4.43 | 17.60 / 4.08 | 17.70 / 3.98 | 17.53 / 4.15

16.45 / 5.23 | 16.95 / 4.73 | 17.50 / 4.18 | 17.65 / 4.03 | 15.99 / 5.69 | 15.87 / 5.81 | 15.75 / 5.93 | 15.63 / 6.05

16.19
5.65
21.84 HT.

16.23 / 5.45 | 16.90 / 4.78 | 17.20 / 4.48 | 18.70 / 2.98 | 18.45 / 3.23 | 17.93 / 3.75

17.37
4.47

21.75
2.57
24.32 HT.

21.10 / 3.22 | 22.00 / 2.32 | 22.30 / 2.02

17.30
8.3
16.47

17.77 / 6.56 | 18.40 / 5.93 | 18.70 / 5.63

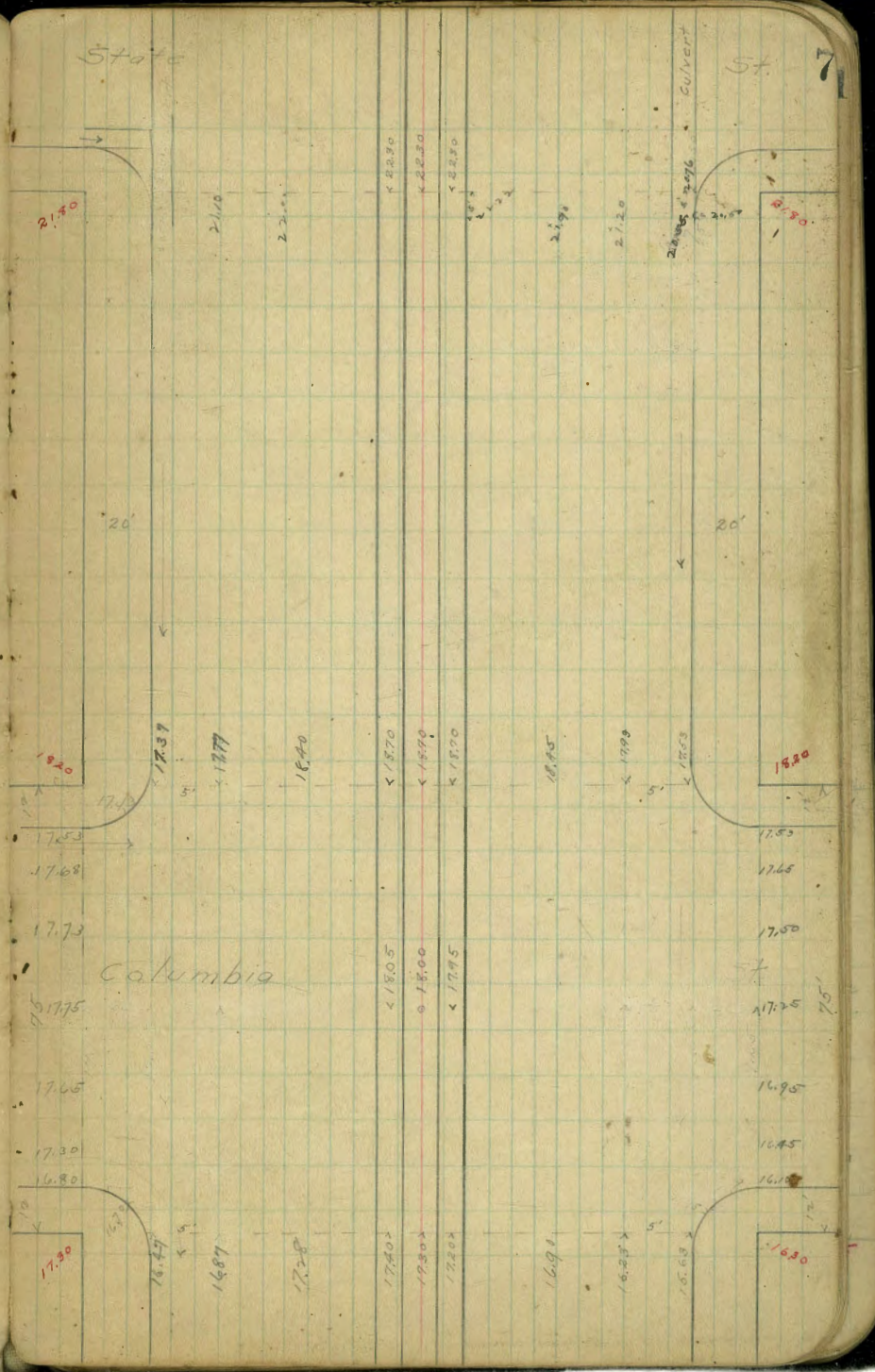
16.19 BM
8.14
24.33 HT.

18.70 / 3.14 | 18.40 / 3.44 | 17.77 / 4.07 | 17.37 / 4.47 | 16.47 / 5.37

16.19 BM
5.65
21.84 HT.

17.68 / 4.16 | 17.73 / 4.11 | 17.75 / 4.09 | 17.65 / 4.19 | 17.30 / 4.54

16.87 / 4.97 | 17.28 / 4.56 | 17.40 / 4.44 | 16.80 / 5.04 | 17.53 / 4.31



16.189 S. W. Columbia

12.88 India
4.51
17.39 HT

12.33 12.83 13.33 12.67
5.06 4.56 4.06 4.72

12.88
5.61
18.49 HT

13.73 14.16 14.30 17.40 17.28 16.87
4.76 4.33 4.19 1.09-.03 1.21 ok 1.62-.02

13.33 13.65 13.75 13.58 13.43 12.93
4.41 4.09 3.99 4.16 4.31 4.81

12.88
4.86
17.74 HT

12.88
5.92
18.80 HT

14.20 13.90 13.33 12.83
4.60 4.90 5.47 5.97

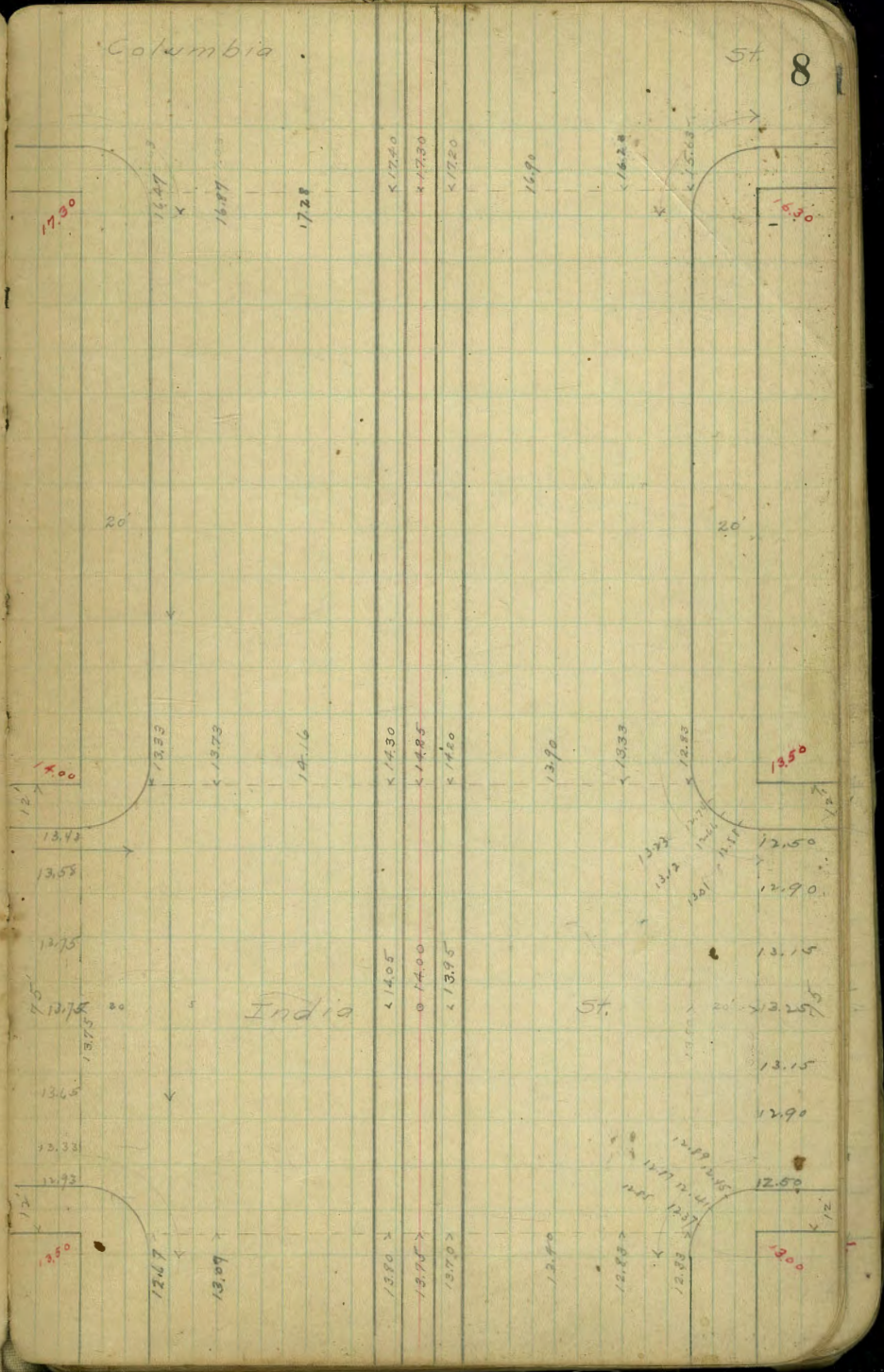
2.64 1.96 1.59
16.16 16.84 17.21 ok ch
-.07 -.06

12.88
4.36
17.25 HT

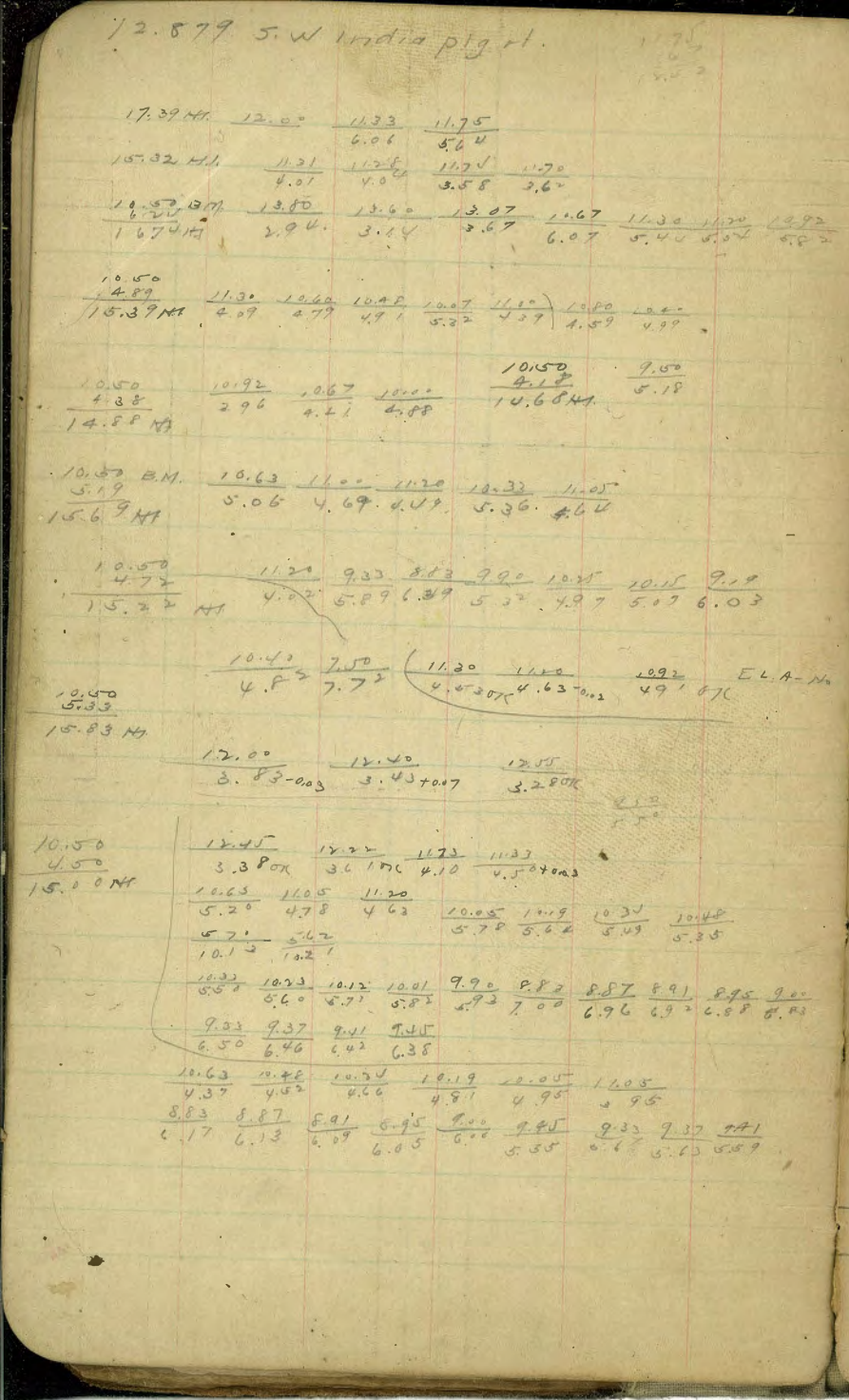
11.33 12.83 12.85 12.87 12.89 12.90 13.15 13.25
5.91 4.41 4.39 4.37 4.35 4.34 4.09 3.99

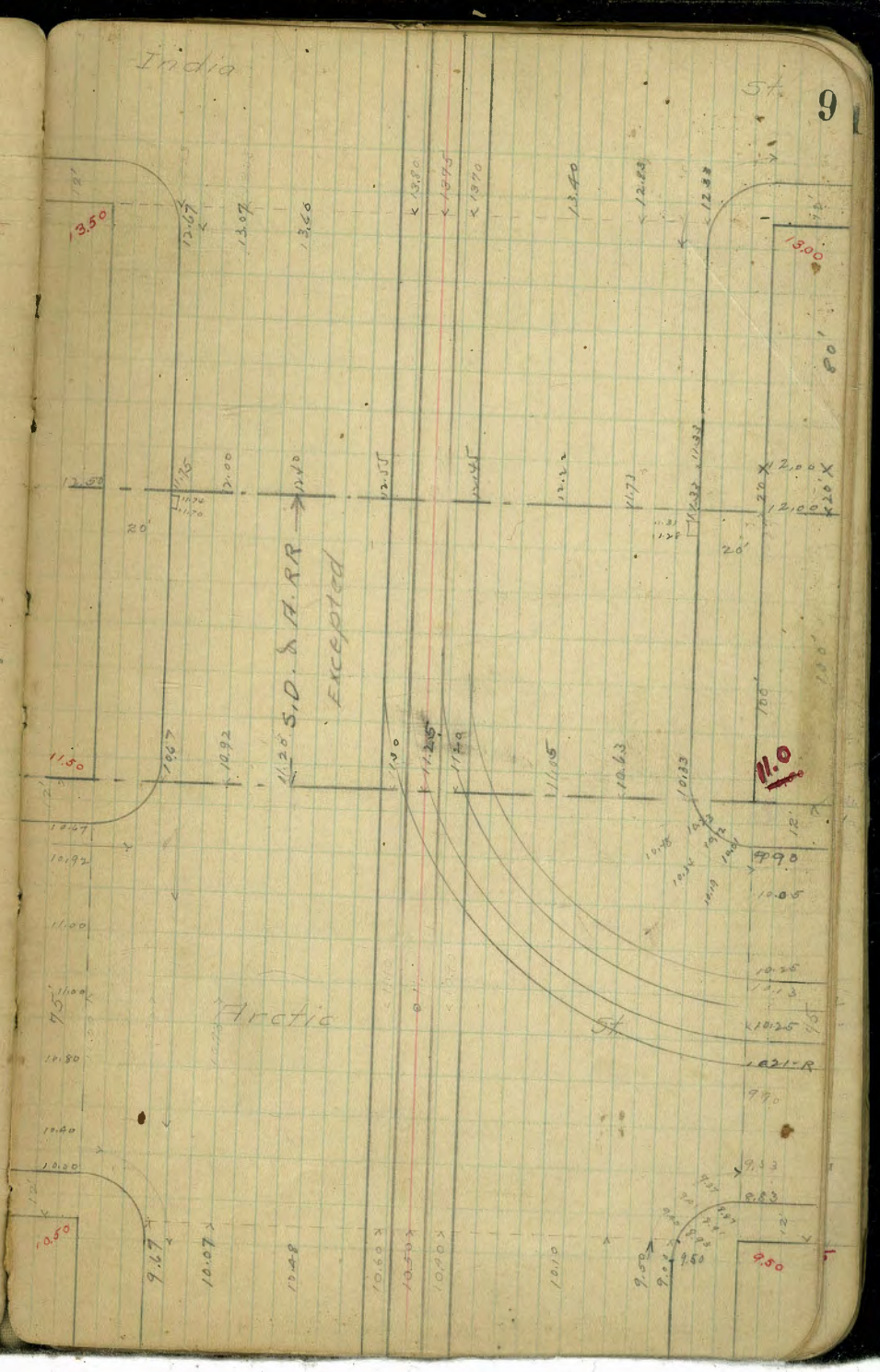
13.01 13.12 13.23 12.33 12.37 12.41 12.45 12.50
4.22 4.11 4.00 4.90 4.86 4.82 4.78 4.73

12.50 12.58 12.66 12.74 12.83 13.40 13.70
4.73 4.65 4.57 4.49 3.83 3.53



12.879 S.W India plgt.





10.502 S. E. Arctic plgrt. 6.973 California SE plgrt.

6.97 / 4.80 / 11.77		7.50 / 4.27	7.25 / 4.52	6.57 / 5.20					
6.97 / 5.64 / 12.61	8.77 / 3.84	9.39 / 3.22	9.60 / 2.93	8.29 / 4.32	6.17 / 6.44	6.57 / 6.04	7.25 / 5.36	7.50 / 5.11	

Arctic St

10.5 9.67 10.27 10.60 10.40 10.10 9.50 9.00 9.5

9.18 9.39 8.77 8.29

7.0 6.17 6.57 7.25 7.50 7.50 7.25 6.57 6.17 7.0

100' RR R/W

California St

5.5 5.0

4.52 W

4.57 E

1.10 = 10

1.06 = 26

15.47
5.01
20.48 HI

15.40 / 5.08 — 15.23 / 5.25 — 15.44 / 5.04 — 14.50 / 5.98 — 14.45 / 6.03 — 14.35 / 6.13

14.13 / 6.35

15.43 / 5.05 — 15.41 / 5.07 — 15.38 / 5.10 — 15.36 / 5.12 — 15.15 / 5.33 — 15.16 / 5.02

15.47
4.90
20.37 HI

16.50 / 3.87 — 5.79 / 4.57

15.100 / 5.37 — 15.30 / 5.07 — 15.50 / 4.87 — 14.63 / 5.74 — 14.70 / 5.67 — 14.76 / 5.61 — 14.83 / 5.54

15.24 / 5.13 — 15.16 / 5.21 — 15.08 / 5.29

15.47
4.75
20.22 HI

4.72
15.50

5.35 — 5.25 — 5.15
5.04
.31
.10

4.68

20.15

15.47 B.M. SULOXH

16.30 / 3.85 — 16.40 / 3.75 — 16.50 / 3.65

4.60
20.07

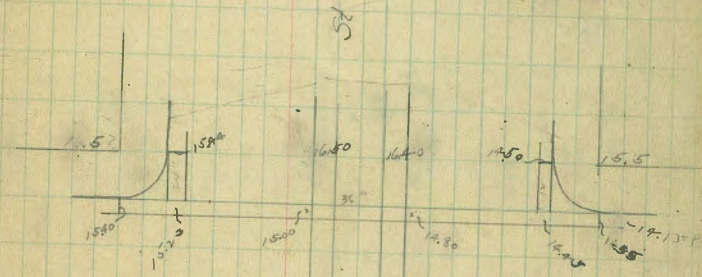
16.35 / 3.72 — 16.45 / 3.62 — 16.40 / 3.67

4.69

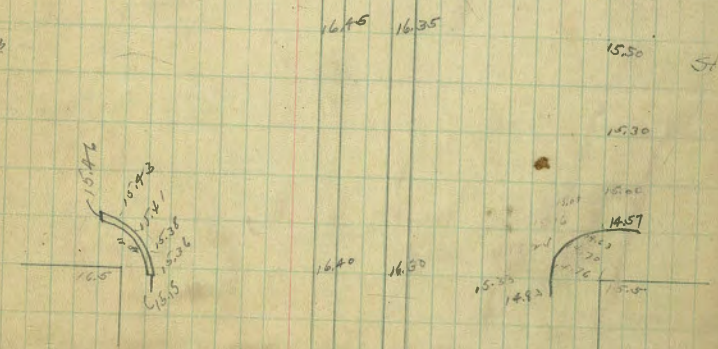
20.16

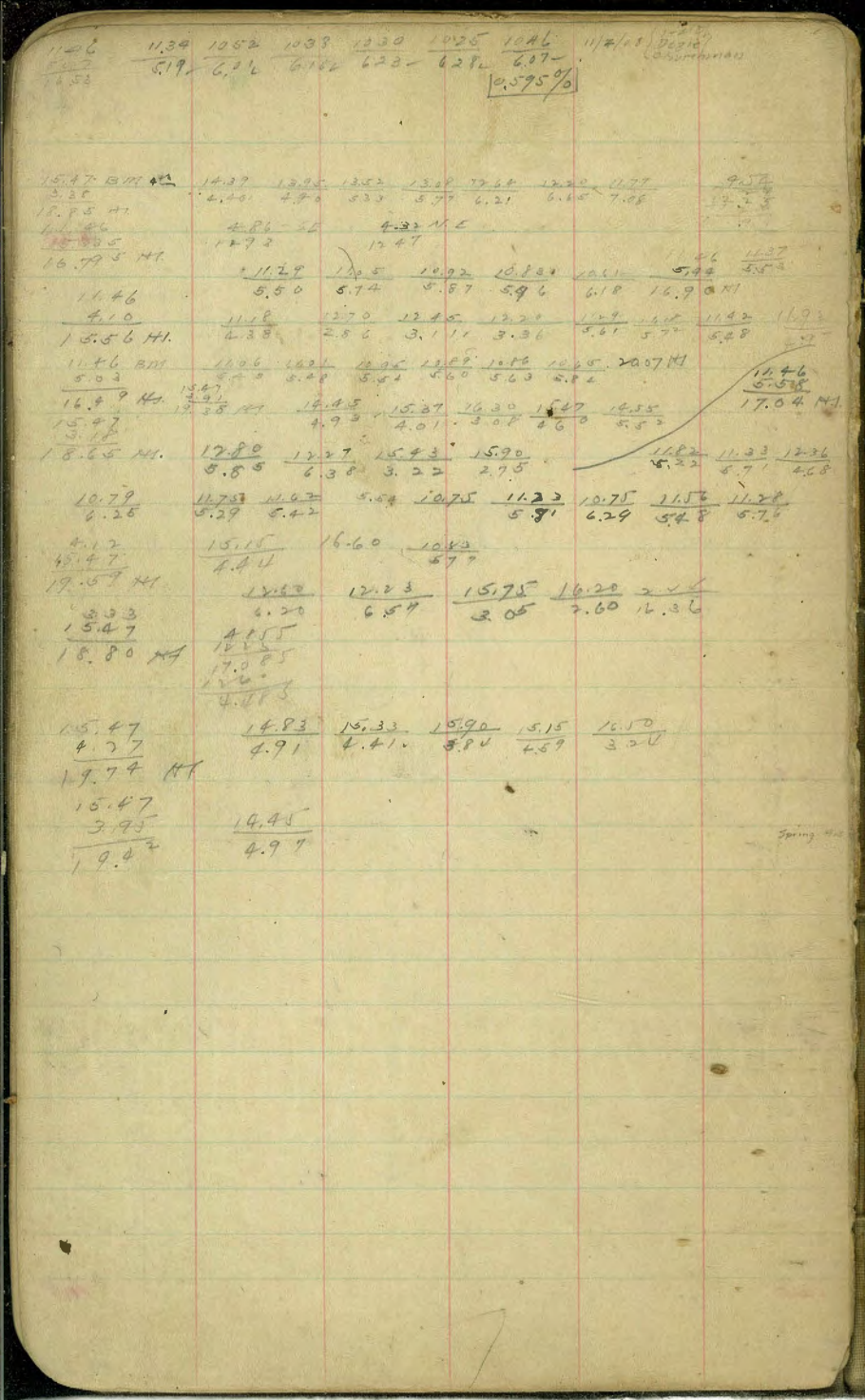
15.47

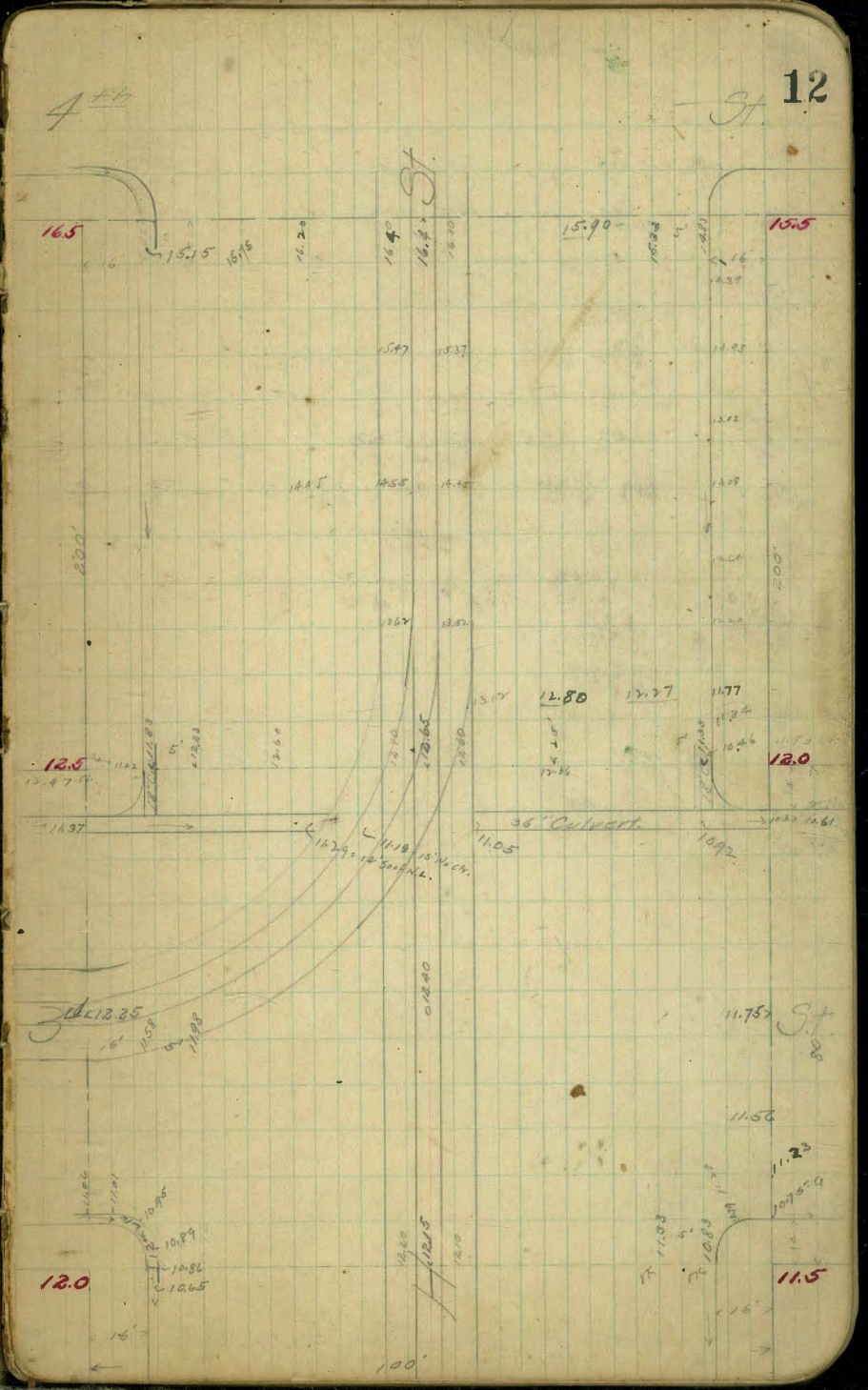
15.83 / 4.33 — 14.80 / 5.36 — 15.00 / 5.16

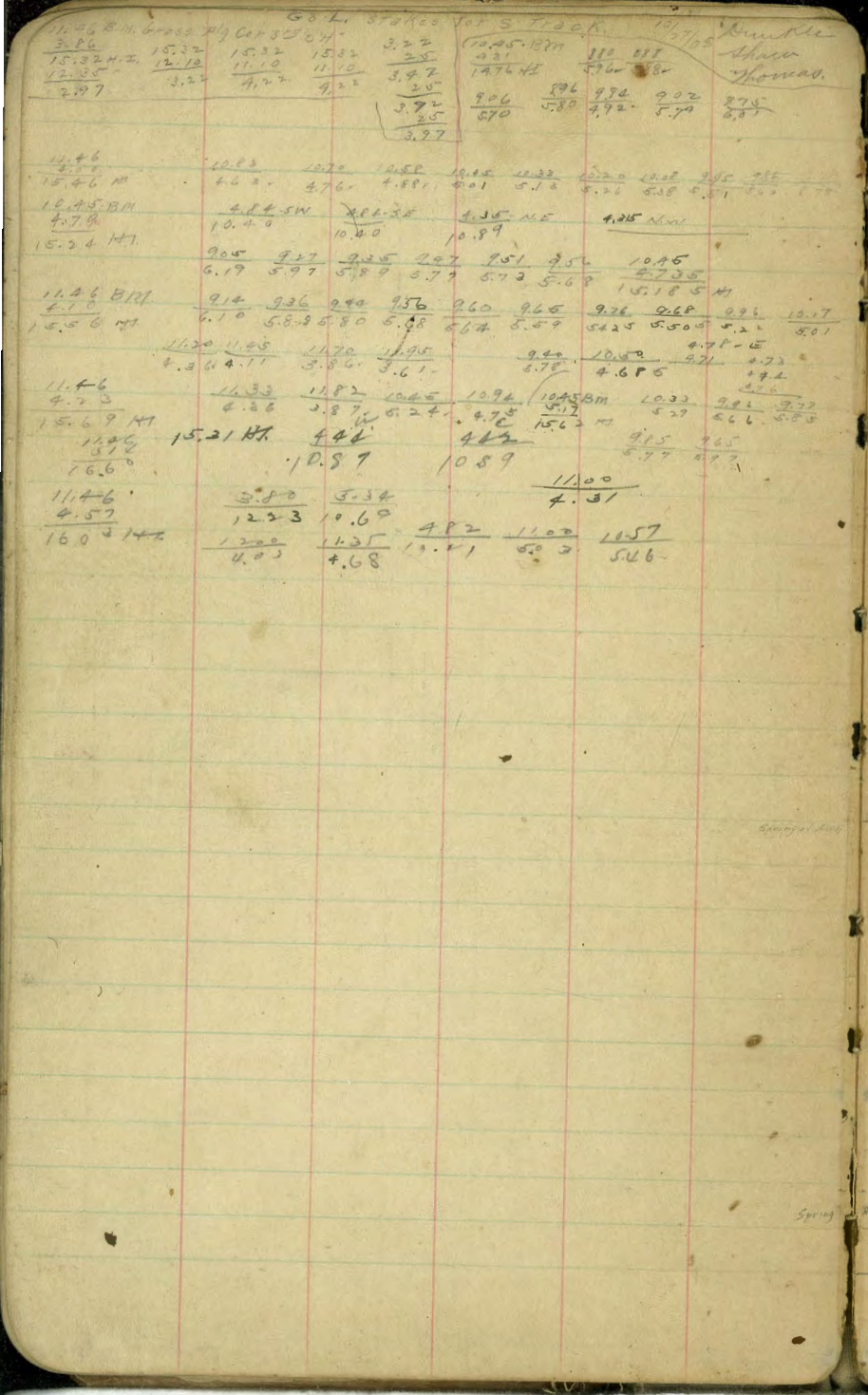


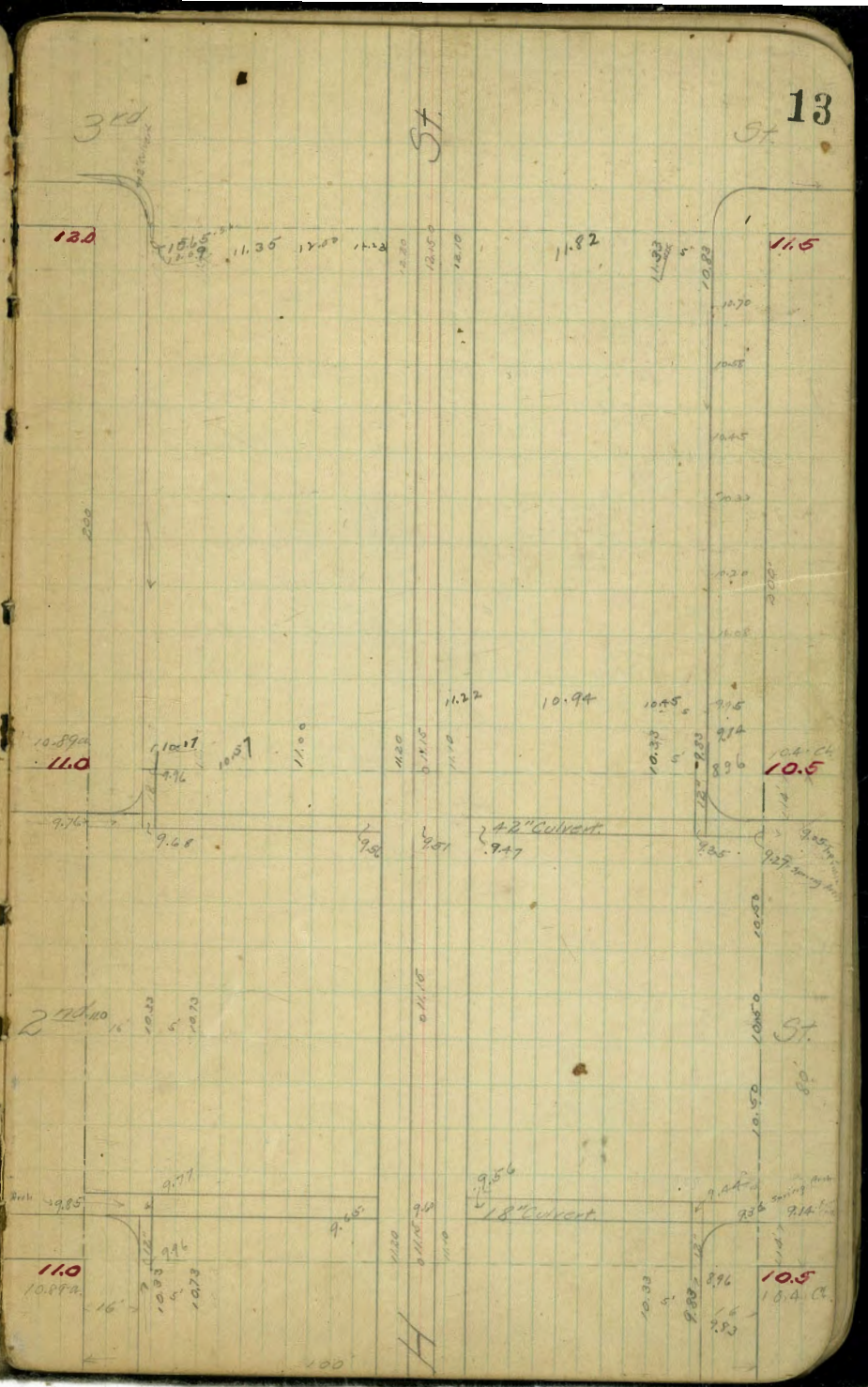
4th

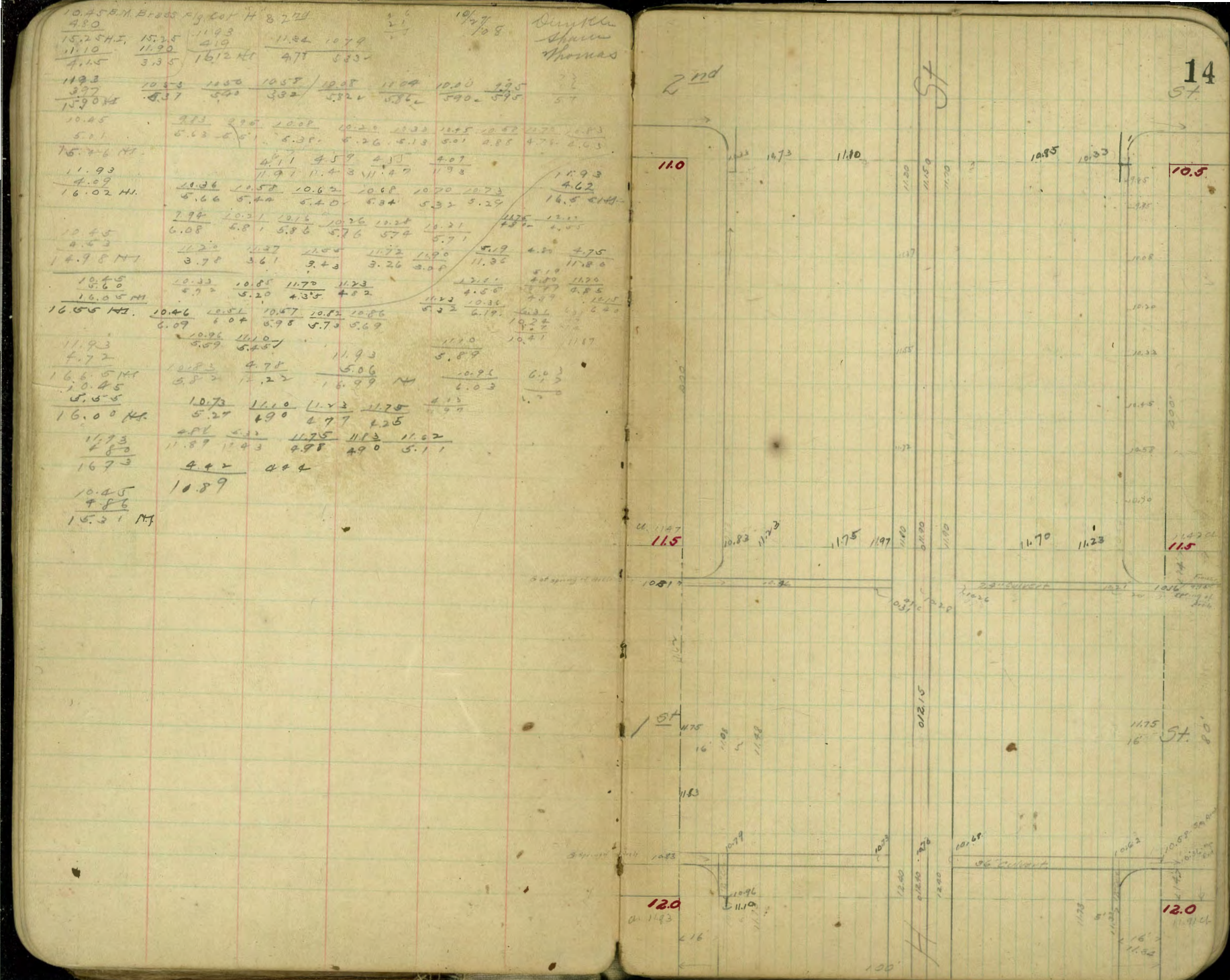


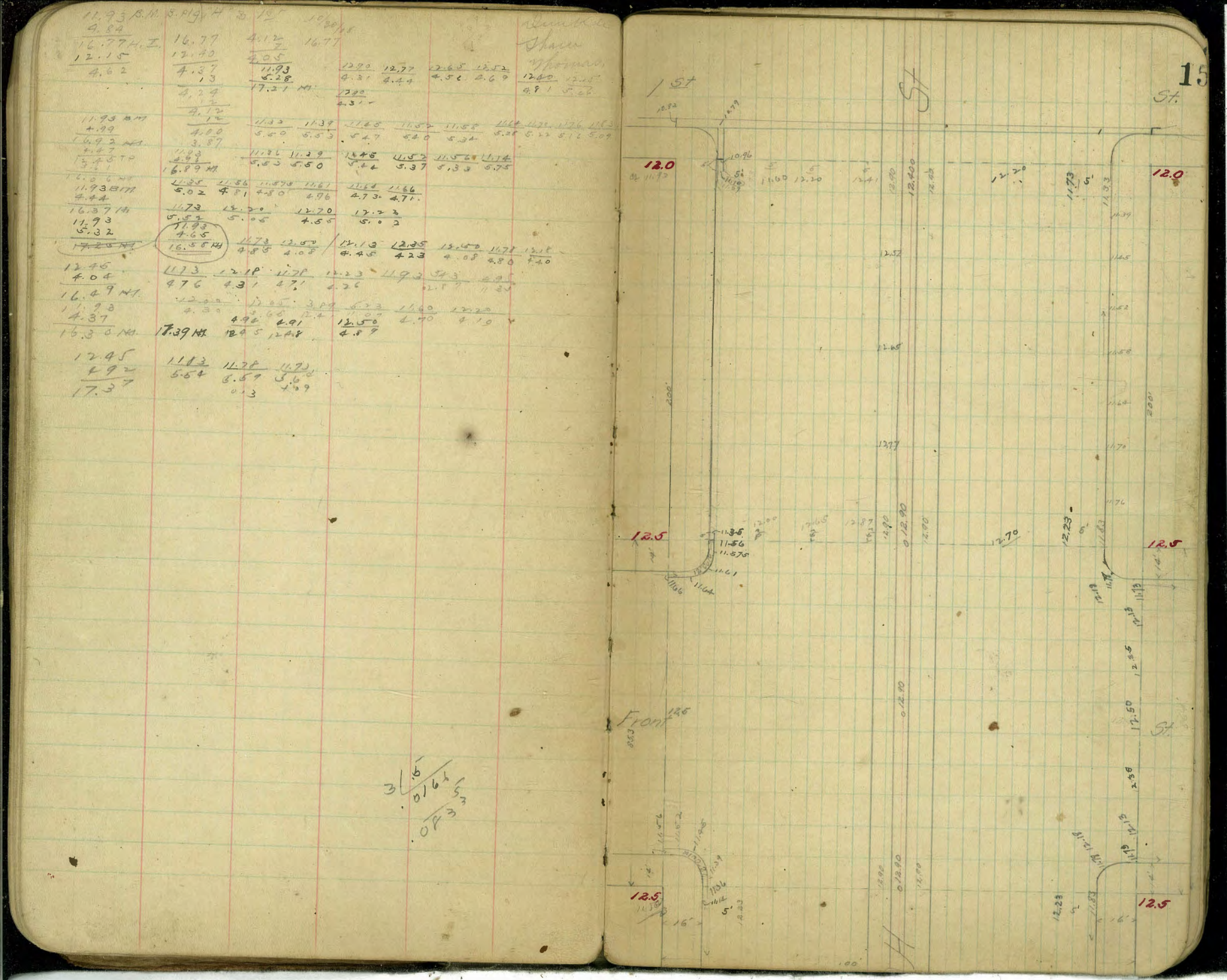

0.595%
15.47 BM
16.79 HI
15.56 HI
16.49 HI
18.65 HI
19.59 HI
18.80 HI
19.74 HI
19.42


4th St
St
16.5
15.5
12.5
12.0
36" Culvert
3rd St
12.0
11.5
200'
100'




3rd St.
St.
12.0
11.5
11.0
10.5
42" Culvert
18" Culvert
2nd No
St.

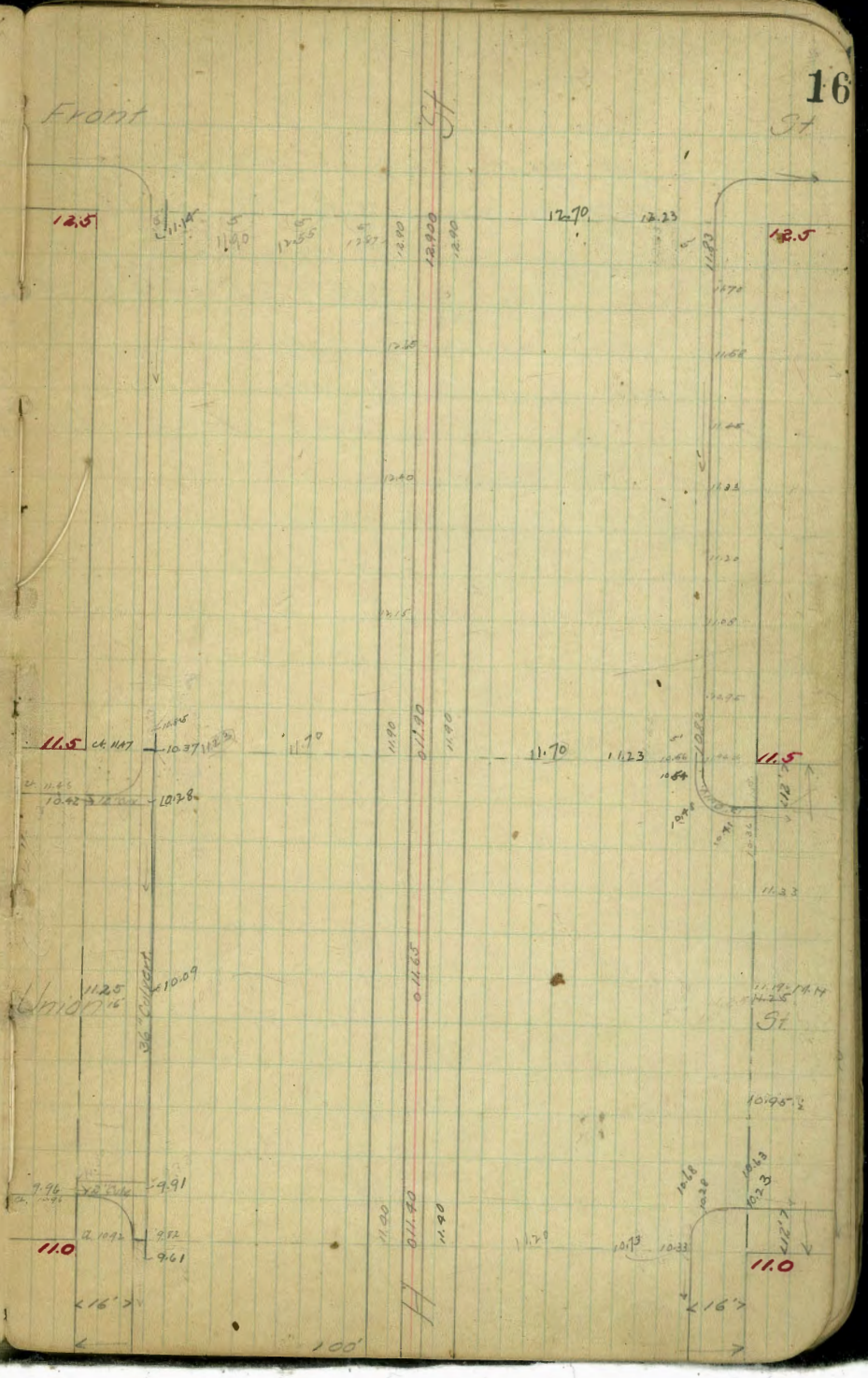

2nd St
St
11.0
10.5
11.5
11.5
1st St
St
12.0
12.0



10.932 B.M. brass plg Union St.

10/29/08

Dunkle
Shaw
Thomas



State Sw. 8465

8.46
4.07
13.37 Hi
9.40
3.97

8.9
4.47

9.15
4.22

11
2
08

4.76
13.325

9.40
3.82

10.93
2.03
12.96 Hi

10.33 10.08 9.83 9.58 9.33 8.83 8.58 9.08 8.38
2.63 2.88 3.13 3.38 3.63 4.13 4.38 3.88 4.58

14.02 Hi

11.40 10.90 10.40 9.90 9.40 9.15
2.62 3.12 3.62 4.12 4.62 4.87

8.465
4.215
12.680 Hi

4.24 3.72 3.73 8.38 7.82 7.73 7.62 7.48
8.44 8.96 8.95 4.30 4.86 4.95 5.06 5.20

8.46
4.50
12.96 Hi

7.39 7.31 7.11 7.46 7.92
5.29 5.37 5.57 5.22 4.76

8.02 8.00 7.93 7.85 7.80 / 8.02 8.00 7.93 7.85 7.80
4.94 4.96 5.03 5.11 5.16 / 5.26 5.28 5.35 5.43 5.48

8.465
4.815
13.28 Hi

8.465
4.25
12.715 Hi

8.73 9.20 / 8.465 BM
3.985 5.515 / 4.705
13.17 Hi

8.46 8.12 8.50 8.75 4.37 7.73
4.71 5.04 4.67 4.42 8.80 4.44

13.71 Hi

3.28 4.99
11.32 9.61

7.78 8.18 8.23 8.72
5.39 4.99 4.94 4.47

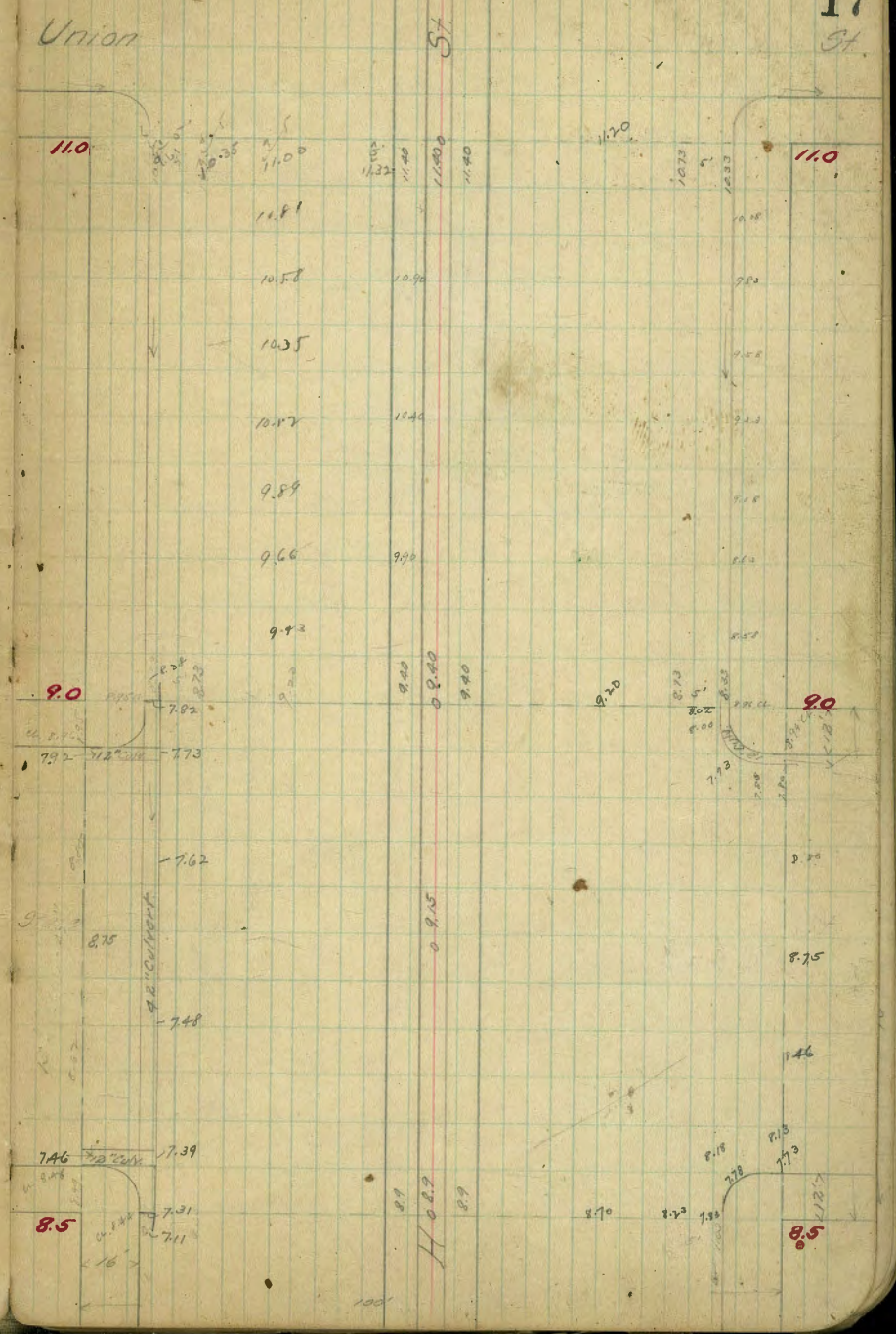
10.93
3.67
14.60 Hi

10.35 11.00 8.73 9.20 4.31 3.85 8.75
4.25 3.60 5.87 5.40 8.49 8.95 4.05

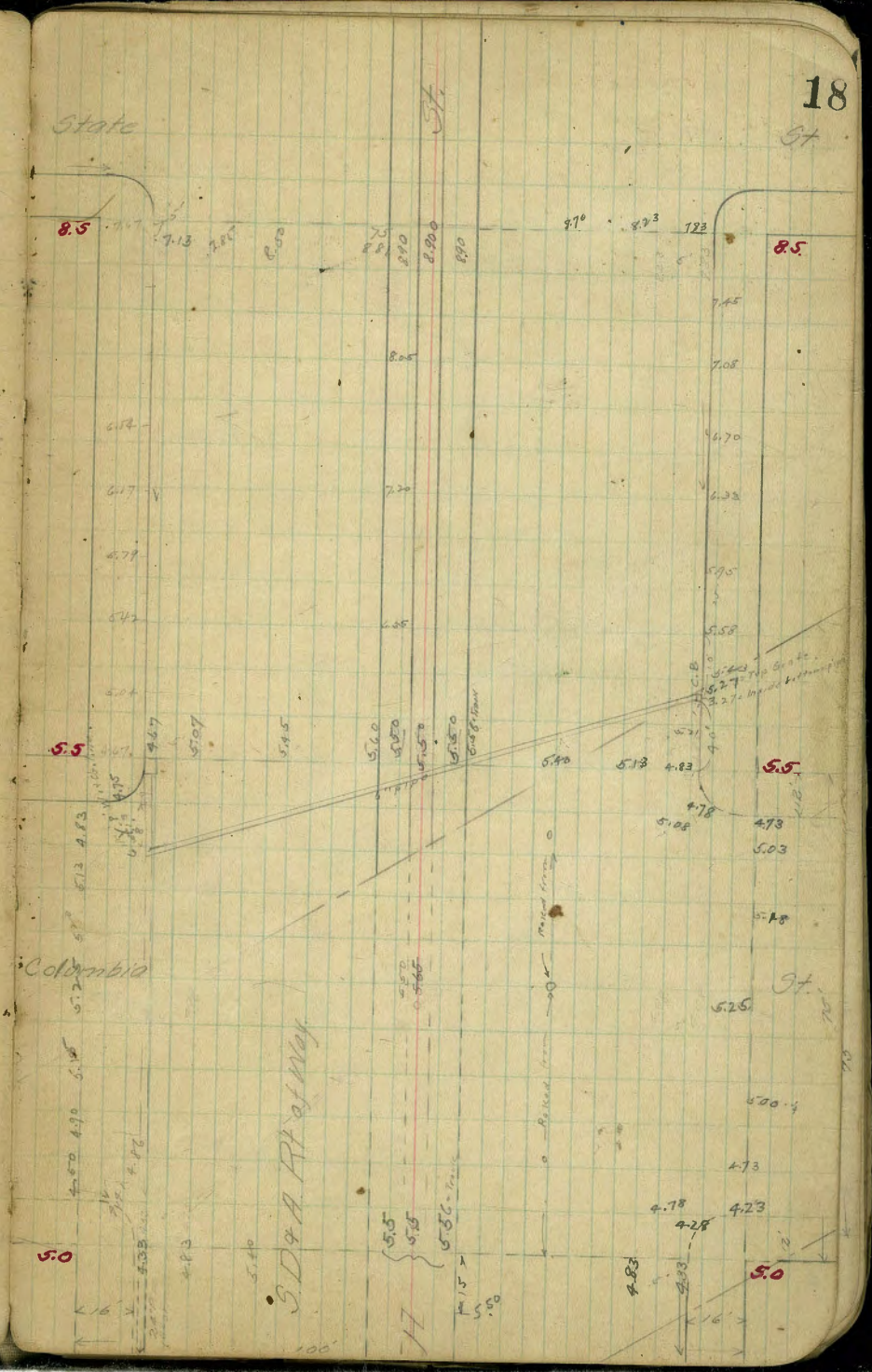
8.46
4.34
12.80 Hi

10.93
4.495
15.42 Hi

10.12 10.35 10.58 10.81
5.30 5.07 4.84 4.61



Columbia St. 1907.



India SW 2423

2423 / 5.27 / 7.693 H1 — 3.05 / 4.93 — 2423 / 5.52 / 7.943 / 4.94 — 2423 / 5.54 / 7.963 — 2.9 / 5.06 — 2423 / 5.35 / 7.773 / 3.35 / 4.52 — 2423 / 5.32 / 7.703 H1 — 3.1 / 4.64

242 / 5.06 / 7.48 H1 — 242 / 4.30 / 6.72 / 2.5 / 4.22

2.42 B.M. / 4.43 / 6.85 H1 — 3.72 / 3.13 — 4.91 H1 / 3.97 / 8.88 H1 — 4.33 / 4.55 — 4.08 / 4.80 — 3.83 / 5.05 — 3.58 / 5.30 — 3.33 / 5.55

3.00 / 4.26 — 3.40 / 3.86 — 2.50 / 4.76 — 2.42 / 4.84 — 2.91 / 5.97 — 2.42 / 4.42 / 6.84 H1 — 3.10 / 3.74

2.42 / 5.29 / 7.71 H1 — 3.10 / 4.61 — 4.00 / 3.71 — 4.75 / 2.96 — 5.50 / 2.21 — 2.82 / 4.89 — H1 / 9.38 — 5.35 / 4.03 — 4.83 / 4.55 — 5.40 / 3.98 — 5.33 / 4.05

5.34 / 2.42 / 7.76 — 2.42 / 5.43 / 7.85 H1 — 4.82 / 3.03 — 2.74 / 5.11 — 4.68 / 4.70 — 4.18 / 5.20 — 4.13 / 5.25 — 3.77 / 3.89

4.91 / 2.75 / 7.66 H1 — 3.08 / 4.58 — 3.48 / 4.18 — 3.75 / 3.91 — 2.13 / 4.48 — 2.50 / 4.11 — 2.75 / 3.86 — 2.68 / 3.93 — 2.53 / 4.08 — 2.23 / 4.38

2.42 / 4.19 / 6.61 H1 — 1.73 / 4.88 — 2.28 / 4.33 — 2.58 / 4.03 — 2.33 / 4.38 — 2.63 / 3.98 — 2.95 / 3.66 — 1.78 / 4.83 — 2.18 / 4.43

1.83 / 4.78 — 2.23 / 4.38 — 2.48 / 4.13 — 1.83 / 5.56 — 2.17 / 5.22

2.42 / 4.97 / 7.39 — 2.42 / 5.07 / 7.49 H1 — 3.00 / 4.49 — 3.25 / 4.24 — 3.60 / 3.89 — 2.50 / 4.99

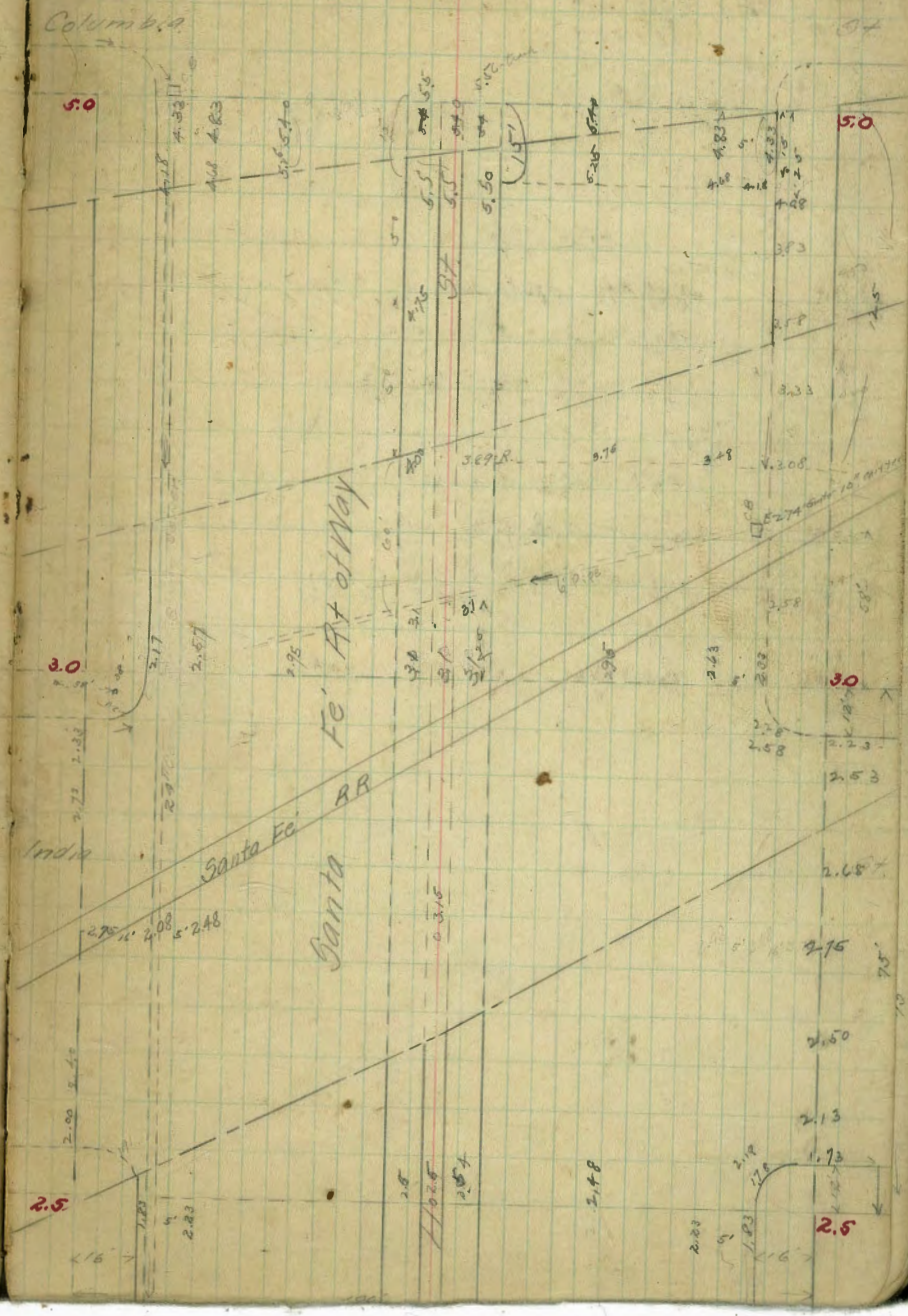
4.91 / 3.53 / 8.44 H1 — 4.83 / 3.61 — 5.40 / 3.04 — 5.25 / 3.19 — 4.68 / 3.76 — 4.33 / 4.11 — 2.95 / 3.49 — 2.57 / 5.87 — 2.17 / 6.27

4.92 / 2.42 / 7.34 H1 — 2.73 / 4.61 — 2.40 / 4.94 — 4.40 / 2.94 — 1.83 / 5.51 — 2.00 / 5.34 — 1.91 / 5.43

2.42 / 4.73 / 7.15 H1 — 2.72 / 4.42 — 2.33 / 4.82 — 2.25 / 4.90 — 2.65 / 4.50 — 52

2.42 / 9.93 / 7.35 H1 — 2.23 / 5.12 — 2.25 / 5.10 — 2.28 / 5.07 — 2.30 / 5.05 — 2.33 / 5.02

S. Fe Crossing Level from heel to heel at Elev. 3.10



Arctic SW 1.397 1.397 1.397 5.07 6.467 HI 2.15 4.317 1.90 4.567 1.4 4.96 6.36 1.4 4.93 6.33 1.9 4.46 4.43 2.4 4.27 2.44 6.69 2.9 4.8

1.397 5.05 6.447 2.40 4.05 1.397 5.23 6.627 2.42 4.22 2.42 BM 4.02 6.44 HI 1.83 4.61 1.77 4.67 1.71 4.74 1.64 4.80 1.58 4.86 1.52 4.92 1.45 4.99 1.37 5.04

1.40 5.1 6.50 6.50 1.9 4.60 1.33 5.11

1.40 BM 5.31 6.71 HI 2.15 4.56 2.40 4.31 2.425 4.285 2.45 4.26 2.475 4.235 2.82 3.89 2.50 4.21

1.40 BM 5.04 6.44 HI 1.90 4.54 1.84 4.60 1.75 4.69 2.29 2.15 2.50 3.94

1.40 4.78 6.18 HI 0.86 5.32 0.91 5.27 0.98 5.20 1.04 5.14 1.06 5.12 1.34 4.84 3.16 2.05

1.40 4.44 5.84 HI 1.73 4.11 2.20 3.64

1.40 4.51 5.91 HI 0.73 5.18 1.13 4.78 1.50 4.41 1.75 4.16 1.18 4.73 0.78 5.13 1.23 4.68 0.83 5.08 1.70 4.21

1.40 4.525 5.92 HI 4.14 1.77 1.50 4.42 1.75 4.17 5.34 1.40 6.74 HI 0.83 6.91 1.00 5.74 1.17 5.57 1.33 5.41

2.42 4.24 6.66 HI 1.13 4.79 1.40 5.27 6.67 HI 1.17 5.50 4.00 1.50 4.27 2.39 5.15 1.72

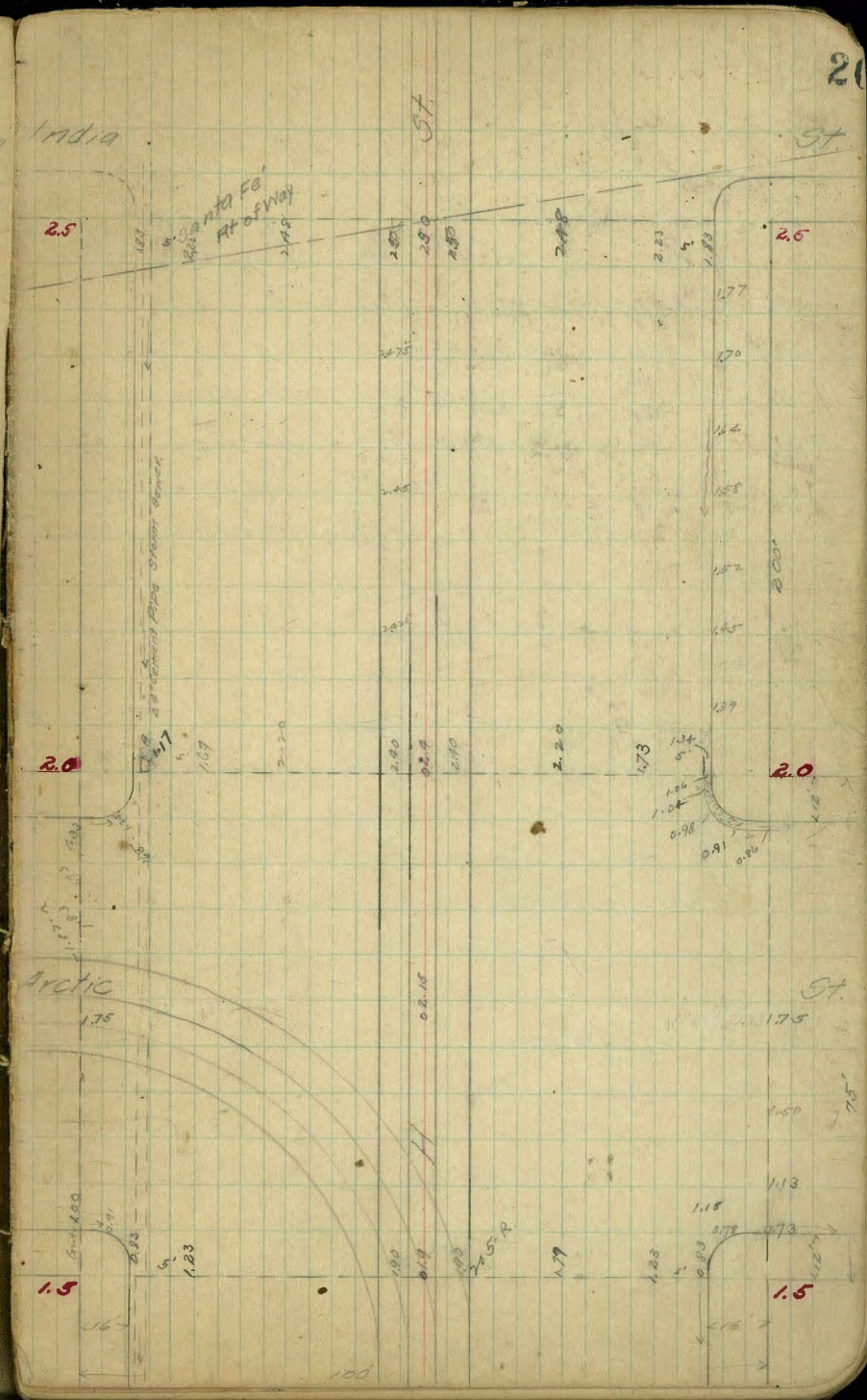
2.48 4.18 5.47 2.23 4.43 2.20 4.46 1.67 4.99 1.65 5.22 5.00 1.87 4.99 1.88

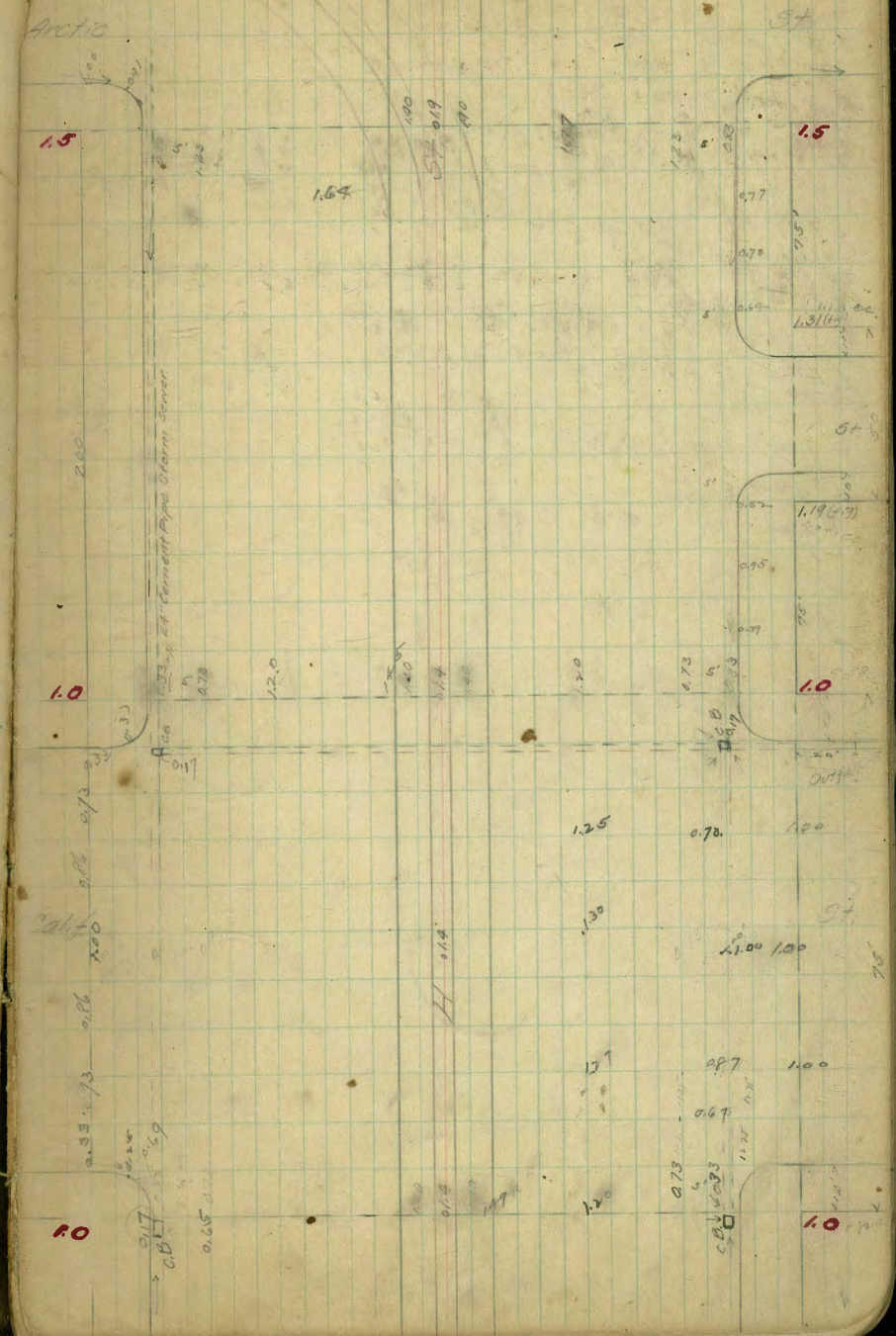
1.40 6.87 HI 0.91 5.96 0.83 6.04 1.25 5.62 1.73 5.14 1.83 5.04

1.40 5.25 6.65 HI 0.83 5.82 0.80 5.85 0.78 5.87 0.76 5.89 0.73 .92

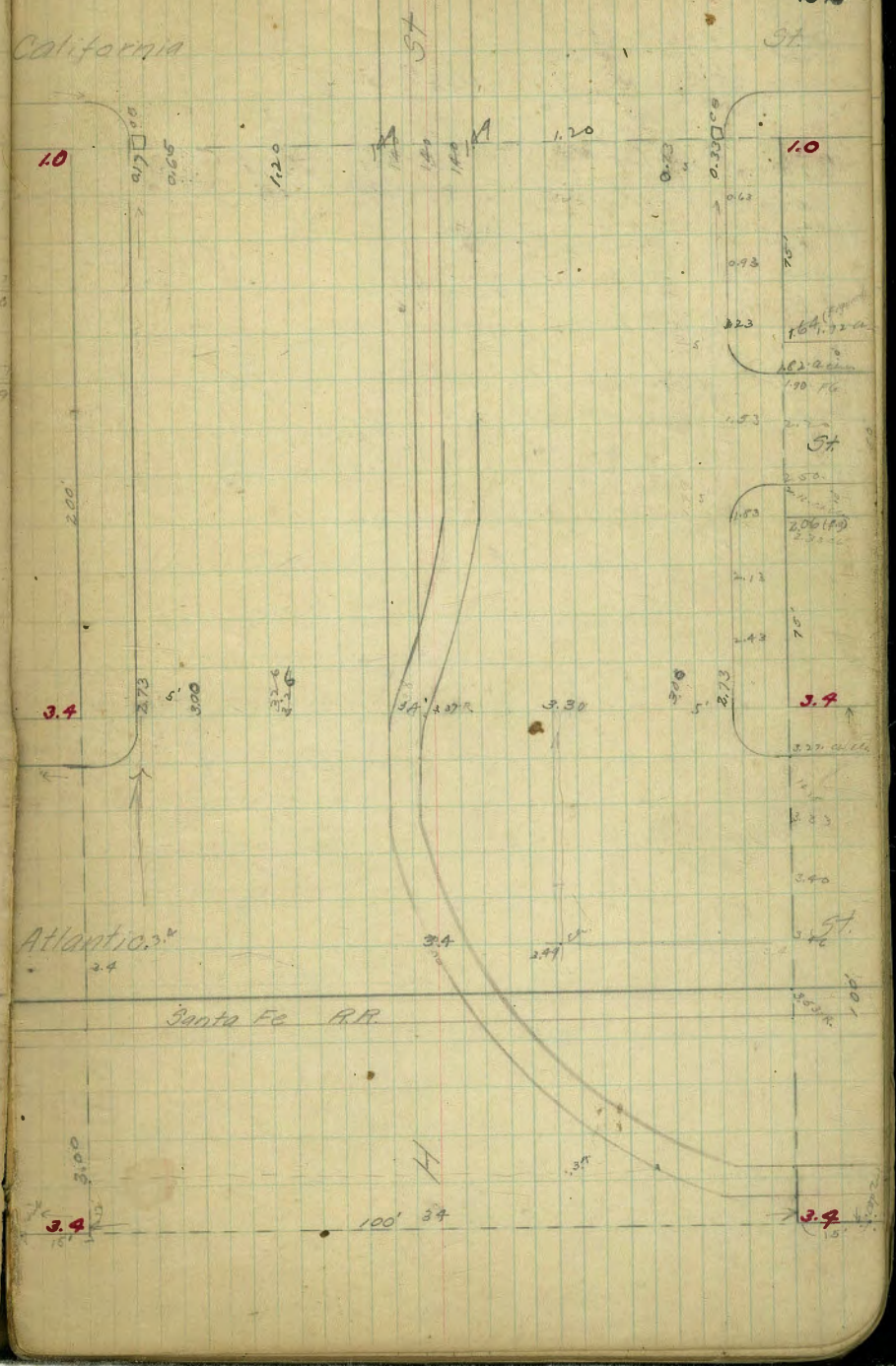
1.17 5.48 1.21 5.44 1.25 5.40 1.29 5.36 1.33 5.32

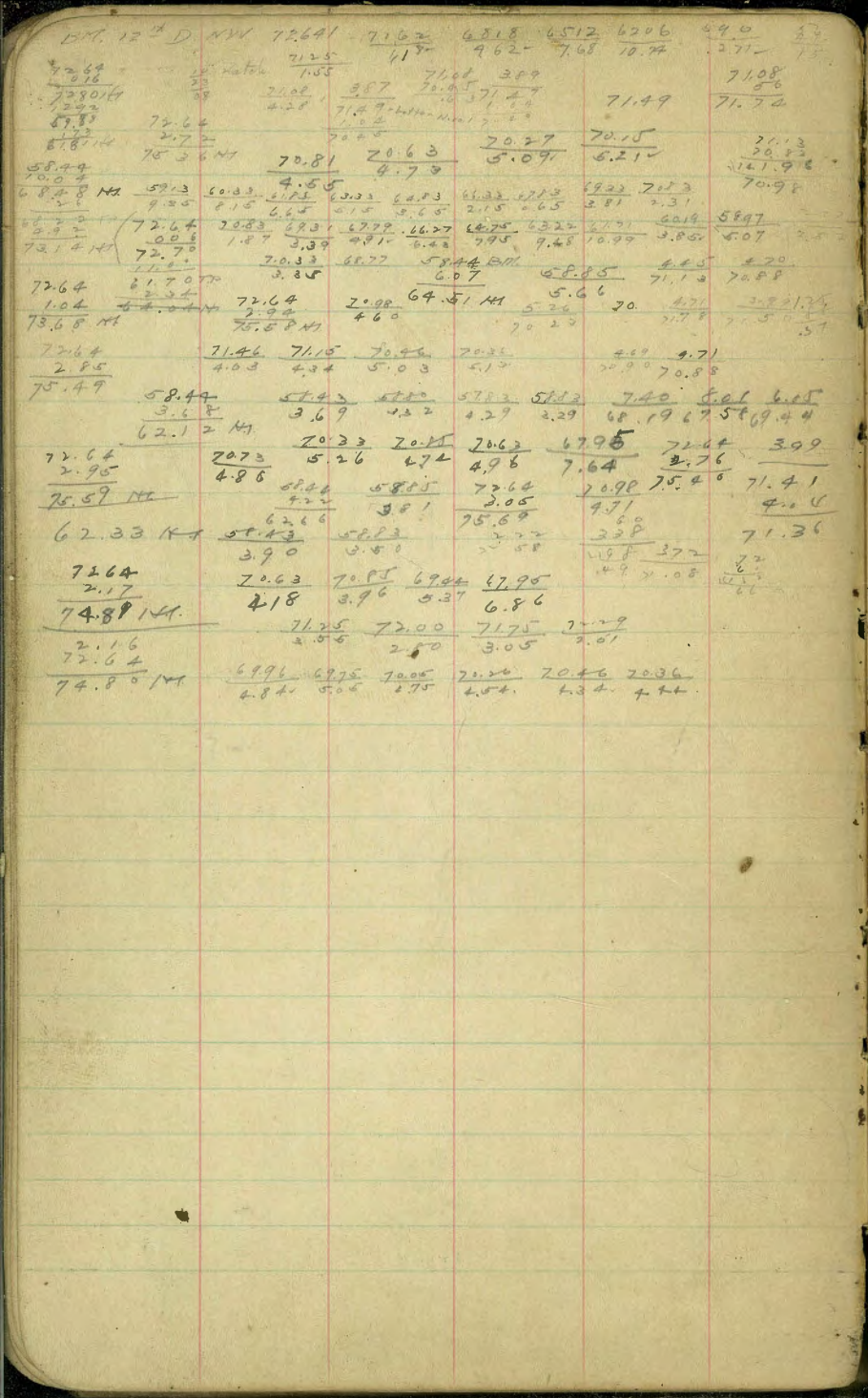
1.00 5.65 0.95 5.70 0.91 5.74 0.87 5.78 0.83 5.82

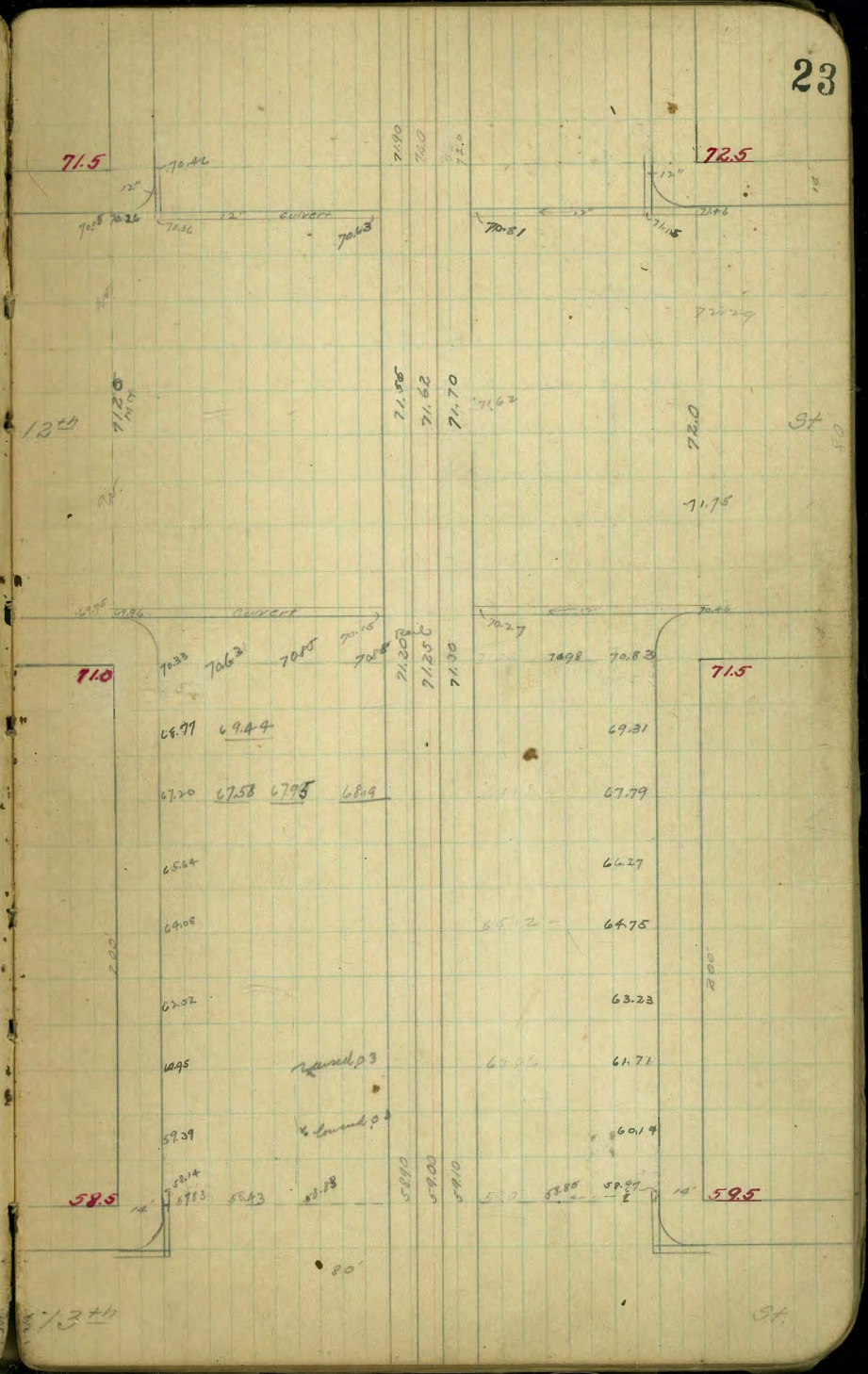


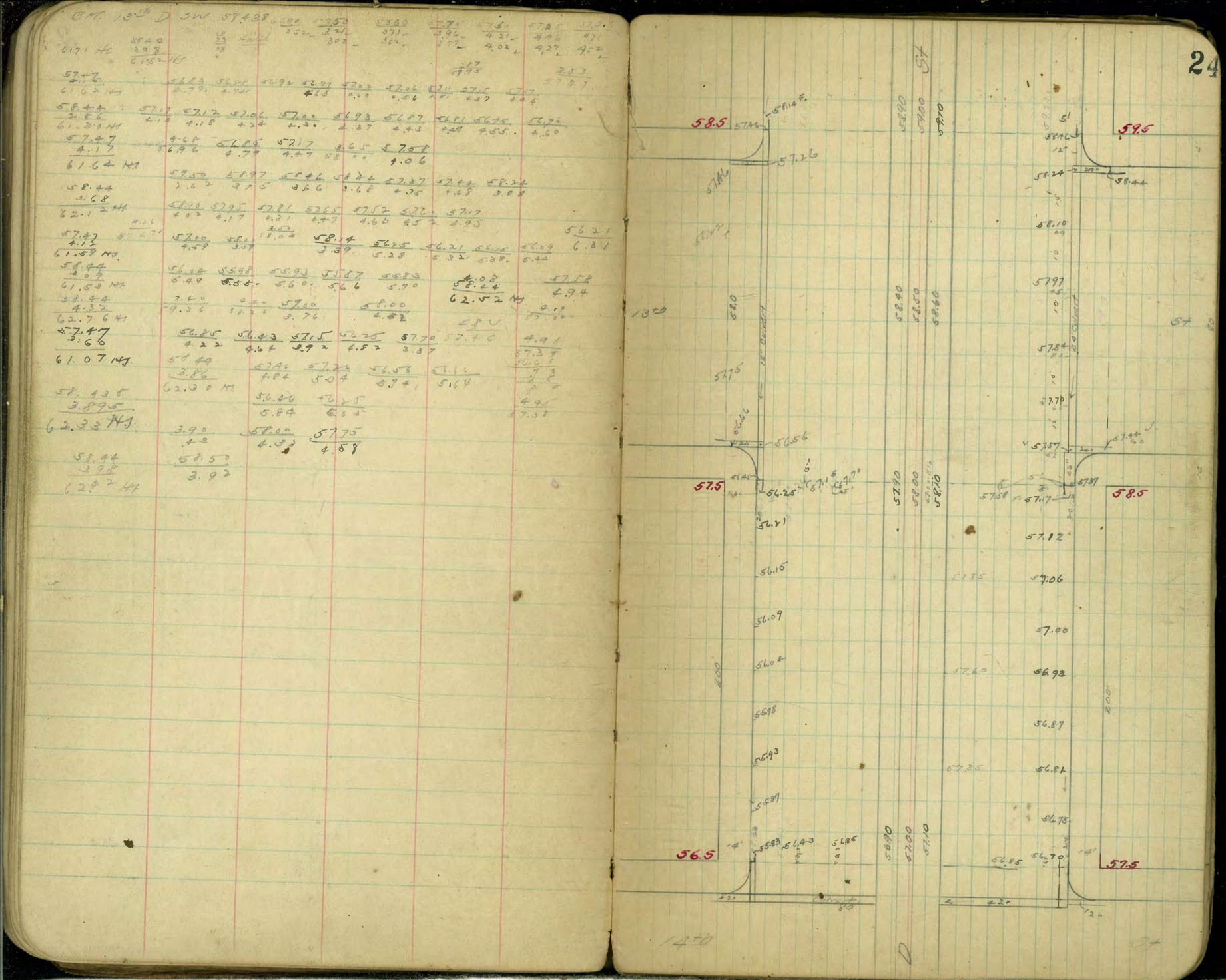

Arctic
St
1.5
1.0
24" Cement Pipe Storm Sewer
Calif
St
1.0
1.0
1.5
1.0
1.64
1.25
0.70
1.00
1.30
1.00
1.00
0.87
1.00
0.67
1.20
1.19
1.31

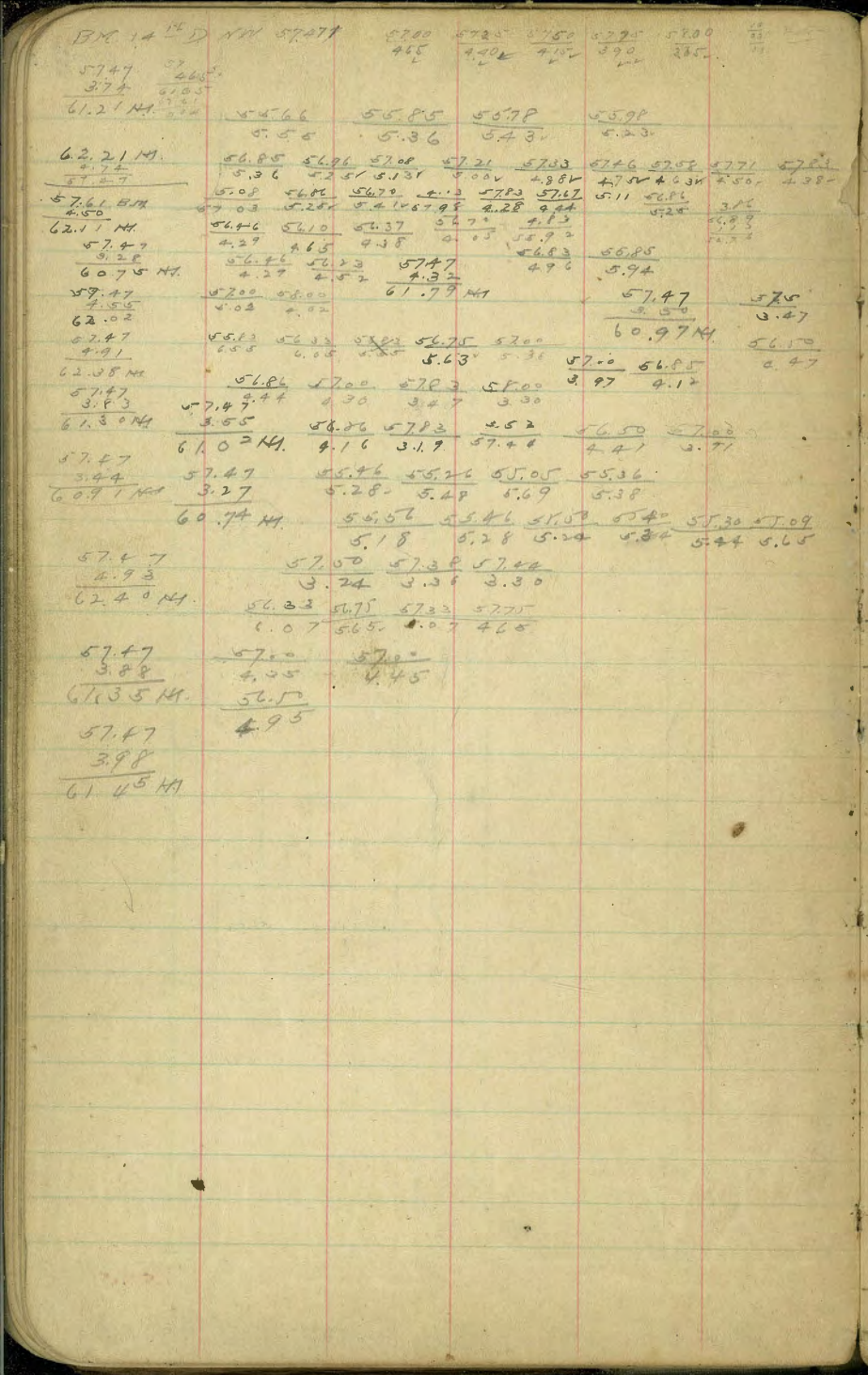
Atlantic SE 3195




BM. 12th D. NW 72.641
71.62
6818
6512
6206
71.49
70.81
4.55
70.63
4.73
70.27
5.09
70.15
5.21
71.08
71.74
72.64
2.72
75.36 Ht
58.44
10.04
68.48 Ht
72.64
1.04
73.68 Ht
72.64
2.85
75.49
58.44
3.68
62.12 Ht
72.64
2.95
75.59 Ht
62.33 Ht
72.64
2.17
74.81 Ht
72.64
2.16
74.80 Ht
70.83
1.87
69.31
3.39
67.79
4.91
66.27
6.43
64.75
7.95
63.23
9.48
61.71
10.99
60.19
3.85
58.97
6.07
64.51 Ht
72.64
2.94
75.58 Ht
70.98
4.60
71.46
4.03
71.15
4.34
70.46
5.03
70.36
5.13
70.88
58.44
3.69
58.43
3.32
58.83
4.29
58.83
3.29
7.40
68.19
6.01
67.58
6.05
69.44
70.73
4.86
70.33
5.26
70.85
4.74
70.63
4.96
67.95
7.64
72.64
2.76
75.40
3.99
71.41
4.05
71.36
58.44
4.22
62.66
58.85
3.81
72.64
3.05
75.69
70.98
4.71
58.43
3.90
58.83
3.50
70.63
4.18
70.85
3.96
69.44
5.37
67.95
6.86
71.25
3.55
72.00
2.50
71.75
3.05
72.29
2.01
69.96
4.84
69.75
5.05
70.05
4.75
70.26
4.54
70.46
4.34
70.36
4.44


71.5
72.5
12th
St
71.0
71.5
58.5
59.5
13th
St
Culvert
Rail
70.33
70.63
70.85
70.88
71.20
71.25
71.30
70.98
70.83
68.77
69.44
69.31
67.20
67.58
67.95
68.19
67.79
65.64
66.27
64.08
64.75
62.52
63.23
60.95
61.71
59.39
60.14
58.14
58.83
58.43
58.88
58.90
59.00
59.10
58.80
58.99
80'
200'





BM. 14 1st D NM 57.477

5747 465
3.74
61.21 HM.

6.2.21 HM.
4.74
57.47

57.61 BM
4.50
62.11 HM.

57.47
3.28
60.75 HM.

59.47
4.56
62.02

57.47
4.91
62.38 HM

57.47
3.53
61.30 HM

57.47
3.44
60.91 HM

57.47
4.93
62.40 HM

57.47
3.88
61.35 HM

57.47
3.98
61.45 HM

5700 465
4.40 L
4.15 L
5.90 L
2.85

5646 5585 5578 5591
5.56 5.36 5.43 5.23

5685 5696 5708 5721 5733 5746 5758 5771 5781
5.36 5.27 5.31 5.00 4.88 4.75 4.63 4.50 4.38

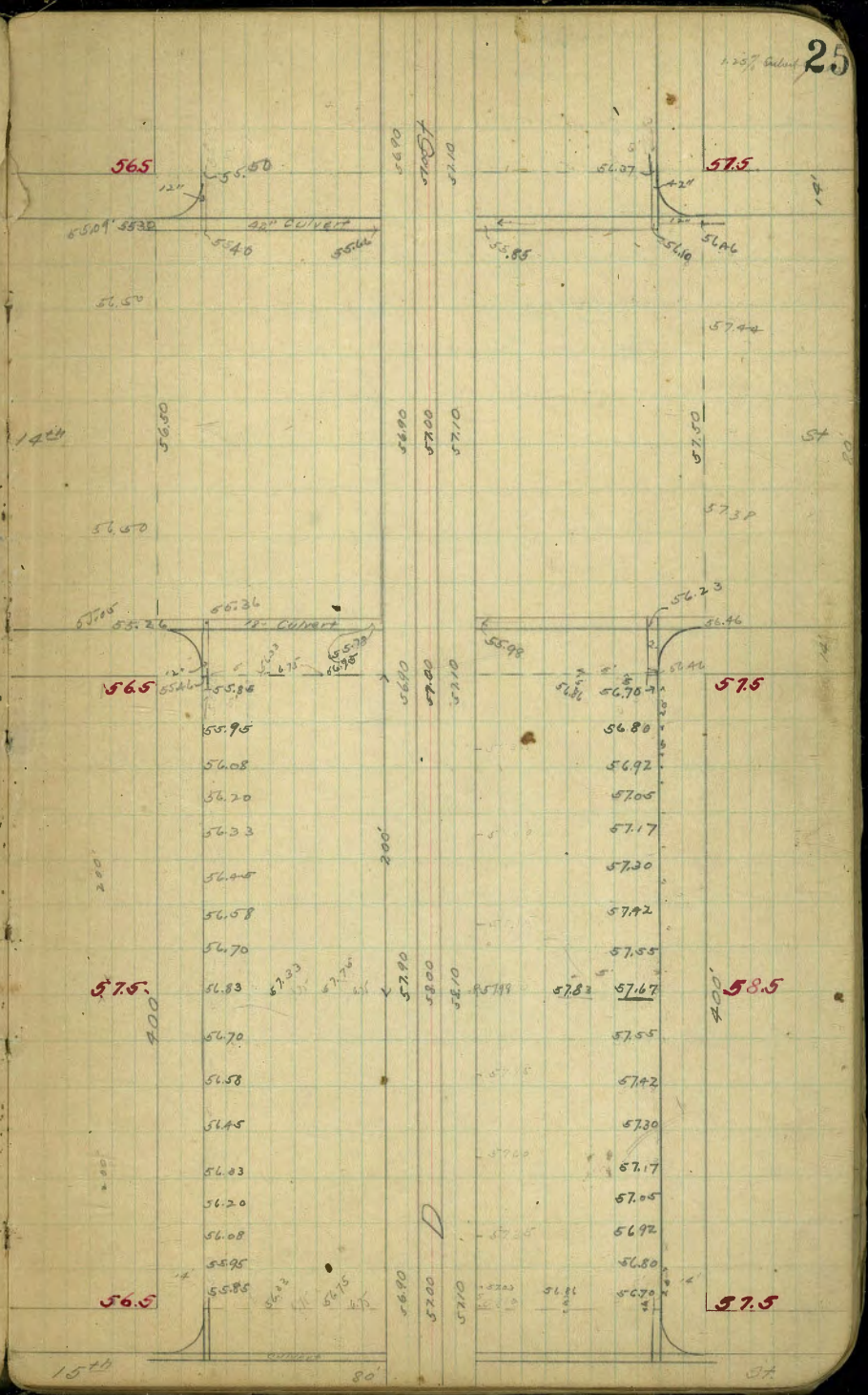
5708 5696 5679 5.13 5783 5767 5.11 5681 3.76
5.03 5.28 5.41 5.79 4.28 9.44 5.25 4.99
5.46 5.10 5.37 5.47 4.13 4.23
4.29 4.65 4.38 5.03 5.92
5.46 5.23 5747 5683 5685
4.27 4.52 4.32 4.96 5.94
5700 5800 61.79 HM. 5747 5745
4.03 4.02 5.50 3.47
60.97 HM. 5650
5583 5633 5783 5675 5700 5.47
6.55 6.85 5.63 5.36
5686 5700 5783 5700 5710 5685
3.44 4.30 3.47 3.30 3.97 4.17
5747 5686 5700 5783 5700 5652
3.55 4.16 3.19 2.52
61.02 HM. 57.48 4.41 3.71

5747 5546 5526 5505 5536
3.27 5.28 5.47 5.69 5.38
60.74 HM. 5656 5546 5518 5554 5730 5709
5.18 5.28 5.20 5.34 5.44 5.65

5700 5738 5744
3.24 3.36 3.30
5633 5575 5733 5775
1.07 5.65 4.07 4.75

5700 5700
4.45 4.45
5650
4.95

565 5550 12" 42" Culvert 5532 5540 5562 5609 5690 5700 5710
565 5550 12" 42" Culvert 5532 5540 5562 5609 5690 5700 5710
14th 5650 5690 5700 5710
565 5546 5526 5505 5536 72" Culvert 5533 6.75 5598 5730 5709 5690 5700 5710
565 5586 5595 5608 5620 5633 5645 5658 5670 5683 5670 5658 5645 5633 5620 5608 5595 5585 200' 400' 5690 5700 5710
565 5585 5690 5700 5710 15th 80' comers



4-25% Culvert
575 5627 12" 42" 5546 5610 5585
575 5637 12" 42" 5546 5610 5585
5650 5690 5700 5710
575 5637 5546 5610 5585 72" Culvert 5598 5730 5709 5690 5700 5710
575 5627 5546 5623 5598 5670 5683 5670 5658 5645 5633 5620 5608 5595 5585 200' 400' 5690 5700 5710
575 5670 5680 5692 5705 5717 5730 5742 5755 5767 5780 5767 5755 5742 5730 5717 5705 5692 5680 5670 5690 5700 5710
575 5670 5690 5700 5710 15th 80' comers

B.M. 15th D. NW 57.614 57.00

B.M. 16th D. S.W. 55.892

4.70
5.52
4.79
0.73

57.61
4.28
61.89 HI.

55.98
5.91

55.78
6.11

55.73
6.16

55.90
5.99

4.79
56.43

57.61 B.M.
4.60
62.21 HI

56.83
5.38

5.45
55.77

57.61

57.00
3.86

5.41
55.45

55.46
5.76
61.22 HI

55.70
5.52

55.89
4.97
60.86 HI

56.50
4.36

57.50
3.36

55.46
5.40

55.26
5.96

55.60
5.62

55.51
5.71

55.89
4.88
60.77 HI

56.84
3.93

56.67
4.10

3.38
57.39

3.14
57.62

3.18
57.59

57.44
3.33

3.26
57.51

57.53
3.24

57.56
3.21

55.83
4.94

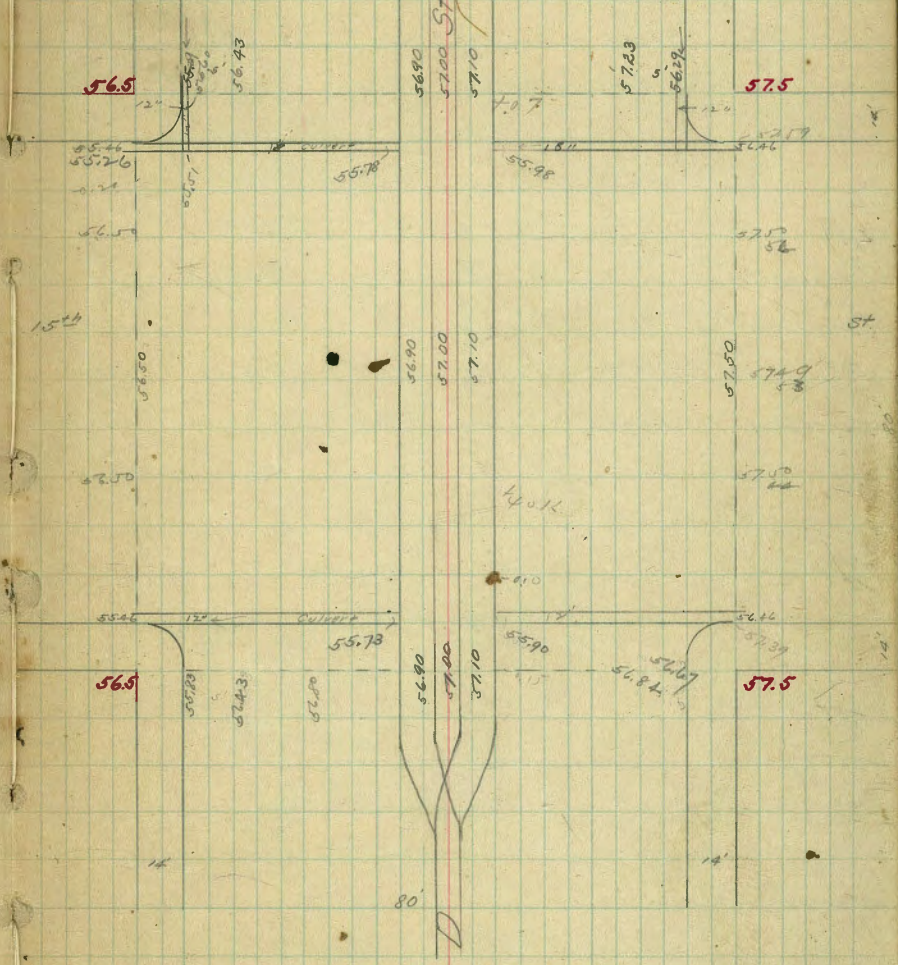
56.43
4.34

56.84
3.97

55.89
5.66
61.55 HI

56.50
5.05

57.00
4.55



Grades for Storm drain Calif. – Columbia – Grade bottom pipe

	Grade	4.56	H.I. 5.41	0.85 BM. O.W. Col.	
C.B. at Cl. line Col	-4.54	9.95	R.R. 6.58	+3.37	
+25	-4.43	9.84	4.60	+5.24	
+50	-4.32	9.73	4.44	+5.29	
+75	-4.21	9.62	4.97	+4.65	
1	-4.10	9.51	4.35	+5.16	
+25	-3.99	9.40	4.21	+5.19	
+50	-3.88	9.29	4.18	+5.11	C.B.W. Col
+75	-3.77	9.18	4.15	+5.03	
2	-3.66	9.07	4.04	+5.03	6" C.B.E. Col.
+25	-3.55	8.96			
+50	-3.44	8.85			
+62	-3.39				
C.B. at Antic. +87=00	-3.28	8.69	3.52	+5.17	
+25	-3.17	8.58	3.41	+5.17	
+50	-3.06	8.47	3.89	+4.58	
+75	-2.96	8.37	3.31	+5.06	
1	-2.85	8.26	3.27	+4.99	
+25	-2.74	8.15	3.20	+4.95	
+50	-2.64	8.05	3.11	+4.94	
			2.86	7.77 H.I.	
+75	-2.53	7.94			4.91 BM
2	-2.42	7.83			
+25	-2.31	7.72			
+50	-2.21	7.62			
C.B. at India +75=0	-2.10	7.51			
+25	-1.99	9.76	4.55	+5.21	

	Grade				
+50	-1.88	9.65	4.34	+5.31	
+75	-1.77	9.54	4.08	+5.46	
1	-1.66	9.43	3.86	+5.57	
+25	-1.55	9.32	3.64	+5.68	
+50	-1.44	9.21	3.27	+5.94	
+75	-1.33	9.10	3.00	6.10	
2	-1.22	8.99	2.84	6.15	
+12=00	-1.17		-0.67 / 10.26	4.67 / 4.92	4.91 / 4.68 / 9.59 H.I.
+25	-0.97				
+43	-0.83				
+63	-0.67	8.44	2.27	6.17	

H.I. 5.66

4.81

-4.54 / 10.20 — -4.43 / 10.09 — -4.32 / 9.98 — -4.21 / 9.87 — -4.10 / 9.76 — -3.99 / 9.65 — -3.88 / 9.54 — -3.77 / 9.43 — -3.66 / 9.32 — 0.85 BM

5.29 — H.I. 6.69 — 1.40 BM

-3.39 / 10.08 — -3.28 / 9.97 — -3.17 / 9.86 — -3.06 / 9.75 — -2.96 / 9.65 — -2.85 / 9.54 — -2.74 / 9.43 — -2.64 / 9.33

4.62 — 7.04 — 2.42 BM

-2.64 / 9.68 — -2.53 / 9.57 — -2.42 / 9.46 — -2.10 / 9.14 — -1.99 / 9.03 — -1.88 / 8.92 — -1.77 / 8.81 — -1.66 / 8.70 — -1.55 / 8.59 — -1.44 / 8.48 — -1.33 / 8.37

1.24 — 9.69 — 8.46

-1.33 / 11.02 — -1.22 / 10.91 — -1.17 / 10.86 — -0.97 / 10.66

Grades for Storm Sewer Across "H" at California

.5238%

	Grade bot pipe	Top grating	4.59	5.44	0.85
C.B. 0 - No Side	-4.54	0.17	-4.54 / 9.98	4.67 / 10.11 4.77 / 10.21	4.87 / 10.31 / 4.55 / +5.76
+25	-4.67		H.I.		
+44	-4.77	9.56	5.41	0.85 / 4.56 / 5.41 H.I.	0.85 / -4.97 / 10.38
+50	-4.80		0.17 / 5.24	-4.87 / 10.28	
C.B. +63 So. Side	-4.87	0.17			
S.L. +81.5	-4.97	—			4.50 / 8.5 / 5.35 H.I.
1+01.5 - Outfall	-5.07	-5.50 - 100' So of S.L.			

Grades for Storm Sewer Across No Side Col.

C.B. N.W. Col	-2.00	-2.00 / 7.35	0.85 / 4.15 / 5.00	H.I. 5.35
	-3.01 / 8.36	-2.57 / 7.92	9.00 - pipe	
		2.69	H.I. 3.54	0.85
			-5.50 / 9.04	

Grades for drain across "H" at Columbia

	Grade			
0 - C.B. So. Ct H 42' E Col.	3.10	2.67	H.I. 11.13	8.46
0+61.5 - Water pipe 10' So. Ct H	1.70	3.10 / 8.03 / 2.33	10.79	8.46
+44	1.21	1.21 / 9.58	0.58 / 10.21	
+21	0.58	1.41	H.I. 9.87	8.46
0+00 ¼ 8' W Ct at Col	0.00	.58 / 9.29	0.00 / 9.87	-0.97 / 10.84	-0.90 / 10.77

Grades for drain across "H" at India

C.B. So. Ct "H"	0.57	4.76	7.18	2.42
			0.57 / 6.61	
Ct at N.E. India	-1.22			

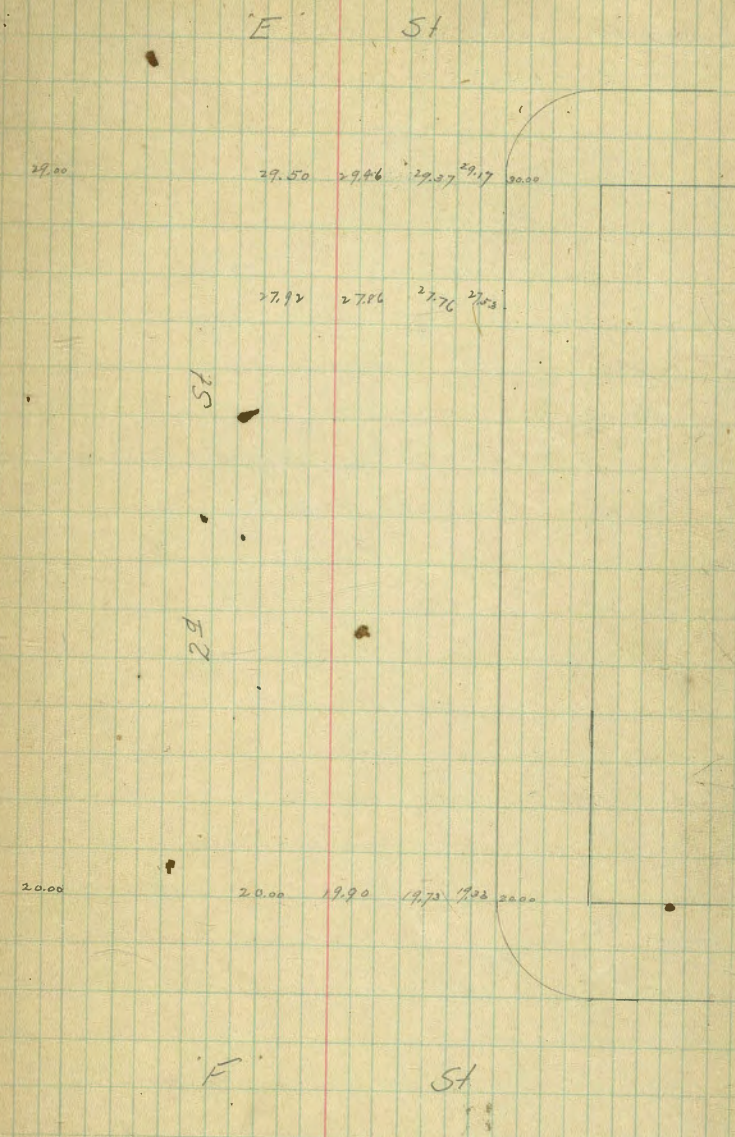
28.904 B.M. S.W 2d & E plgrt.
1.55
30.45

0.52 10.58 10.52
29.93 19.87 19.93

28.90
3.68
32.58 H.I

29.50 29.46 29.37 27.92 27.86 27.76 27.53
3.08 3.12 3.21 4.66 4.72 4.82 5.05

29.17
3.41

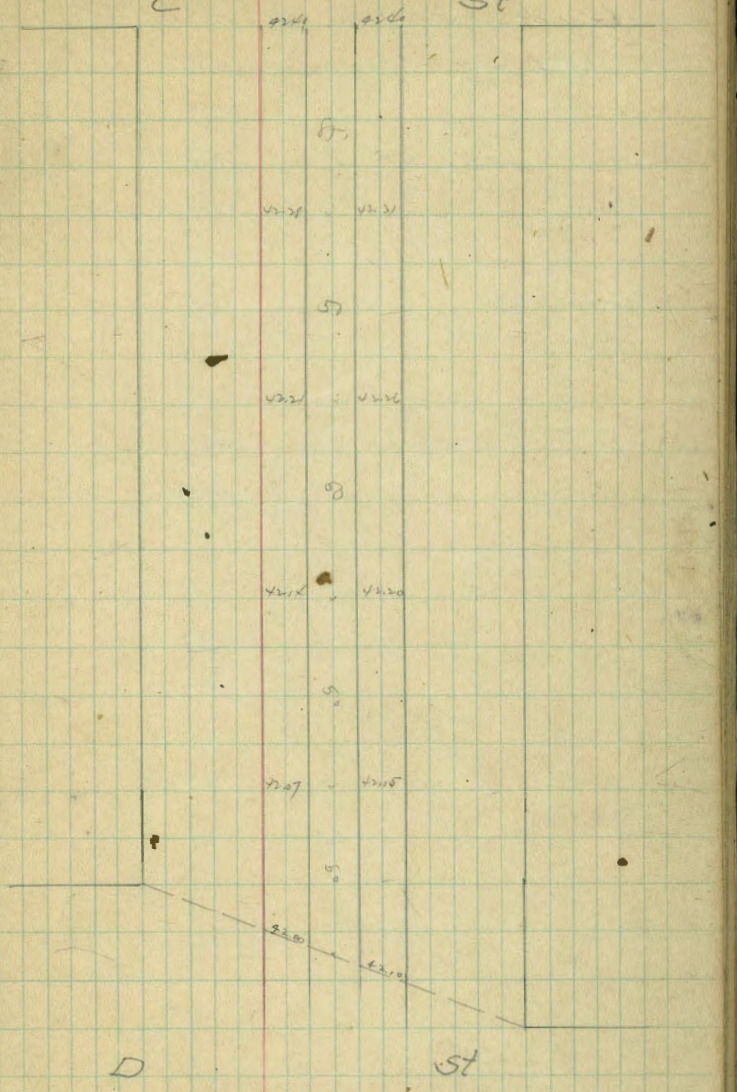


39.45 BM.
6.73
46.18 HI

42.07 / 4.11 | 42.11 / 4.04 | 42.21 / 3.97 | 42.28 / 3.90 | 42.00 / 4.18

3.99 / 42.19 | 4.07 / 42.11

Grades for Car tracks - 3rd - C to D



Grades for Storm drain D St Cal. to S D & A. R. W

0+00 C.B #4 California St E.L.	1.97
+25	2.34
+50	2.72
+75	3.09
1	3.47
+25	3.84
+50	4.22
+75	4.59
+96 - CB #3 W.L. Arctic Top 9.67 9.60	4.91
2 +25	5.34
+47	5.68
+50	5.72
+75	6.09
3	6.47
+25	6.84
+50	7.22
+69.5 CB #2	7.51

10.50 BM Arctic
2.82
1332 HI

2.87
10.45
4.91
+5.54

3.22
10.10
4.59
+5.51

3.75
9.57
4.22
+5.35

4.59
8.73
3.84
4.89

4.90
8.42
3.47
4.75

5.08
8.24
3.09
5.15

5.54
7.78
2.72
5.06

5.95
7.37
2.34
5.03

7.26
6.06
1.97
4.09

4.96
2.9
2.25

4.75
1.96
+4.35

6.97 BM Cal.
4.81
+1.78 HI

1.97
9.81

2.34
9.44

2.72
9.06

3.09
8.69

5.68
-3.47
2.2
1.5
.7

10.50
4.97
15.47 HI

4.91
10.56

4.59
10.88

4.22
11.25

3.84
11.63

5.34
10.13

5.68
9.79

6.09
9.38

6.47
9.00

6.84
8.63

10.50 BM
3.92
14.42 HI

9.60
4.82

9.67
4.75

10.50
4.74
15.24 HI

6.84
8.40

7.22
8.02

7.51
7.73

Grades for pipe across D at E.L. Cal

0+00 CB #4	48x36 Top {6.24 / 6.17	2.83
+20		3.23
+40		3.63
+60		4.03
+80 CB #5	36x36 Top - {6.21 / 6.17	4.43

Grades for pipe across D at S.D. & A.R.W.

0+00 CB #2		8.39
+20		8.83
+40		9.28
+60		9.72
+80 CB #1	36x36	10.17

6.97
4.86
11.83 HI

4.89
6.94
4.46
+2.51

5.24
6.59
4.03
2.56

4.97
6.86
3.63
3.23

5.15
6.68
3.23
3.45

4.90
6.93
2.83
4.10

11.78 HI

2.83
8.95

3.23
8.55

3.63
8.15

8.39
7.51
.88

10.50
5.66
16.16 HI

4.59
11.57
10.17
1.60

11.57
9.72
1.85

4.16
12.00
9.28
2.72

4.23
11.93
8.83
3.10

7.51
7.81

6.97
4.74
11.71 HI

6.21
5.50

6.17
5.54

10.50 B.M.
4.82
15.32 HI

8.39
6.93

8.83
6.49

9.28
6.04

9.72
5.60

11.30
10.17
1.13

6.97
4.54
11.51 HI

6.24
5.27

6.17
5.34

6.97
4.54
11.51

4.43
7.08

10.50
4.95
15.45 HI

5.71
9.74

9.82
5.63

10.17
5.28

B.M. N.W. cor B plg. rt 44317

50.347 BM. N. W. 4 & B. 5.98 5.46
0.24 44.61 45.13
50.59 HI

44.83 6.84 43.83 44.00
5.76 43.75 6.76 6.59

46.93
1.09
48.02 HI

2.86 3.39
45.16 44.63 6.52 7.68 6.90
44.92 43.76 44.54

50.35
1.09
51.44 HI
6.06
45.38 T.P.
3.36
48.74 HI

6.30 6.60 6.77 6.82 6.79
45.14 44.84 44.67 44.64 44.65

44.23 44.40 6.93 43.83 44.41
7.21 7.04 44.51 7.61 7.03

43.88 43.92 43.96 44.00 44.83 44.77 44.72 44.66
7.56 7.52 7.48 7.44 6.61 6.67 6.72 6.78

43.77 43.79 43.83 43.90 43.95 44.30 44.37 44.44 44.50
7.67 7.65 7.61 7.54 7.49 7.14 7.07 7.00 6.94

45.38
3.32
48.89 HI

44.92 45.14 45.10 44.98 44.95 4.92 4.89 4.86 5.03
6.52 6.30 6.34 6.46 6.49 6.52 6.55 6.58 6.41

5.10 4.87 4.83
6.34 6.57 6.61

44.54 4.45 4.23 4.26 4.29 4.32 4.35 4.75 4.92
4.20 4.29 4.51 4.48 4.45 4.42 4.39 3.99 3.82

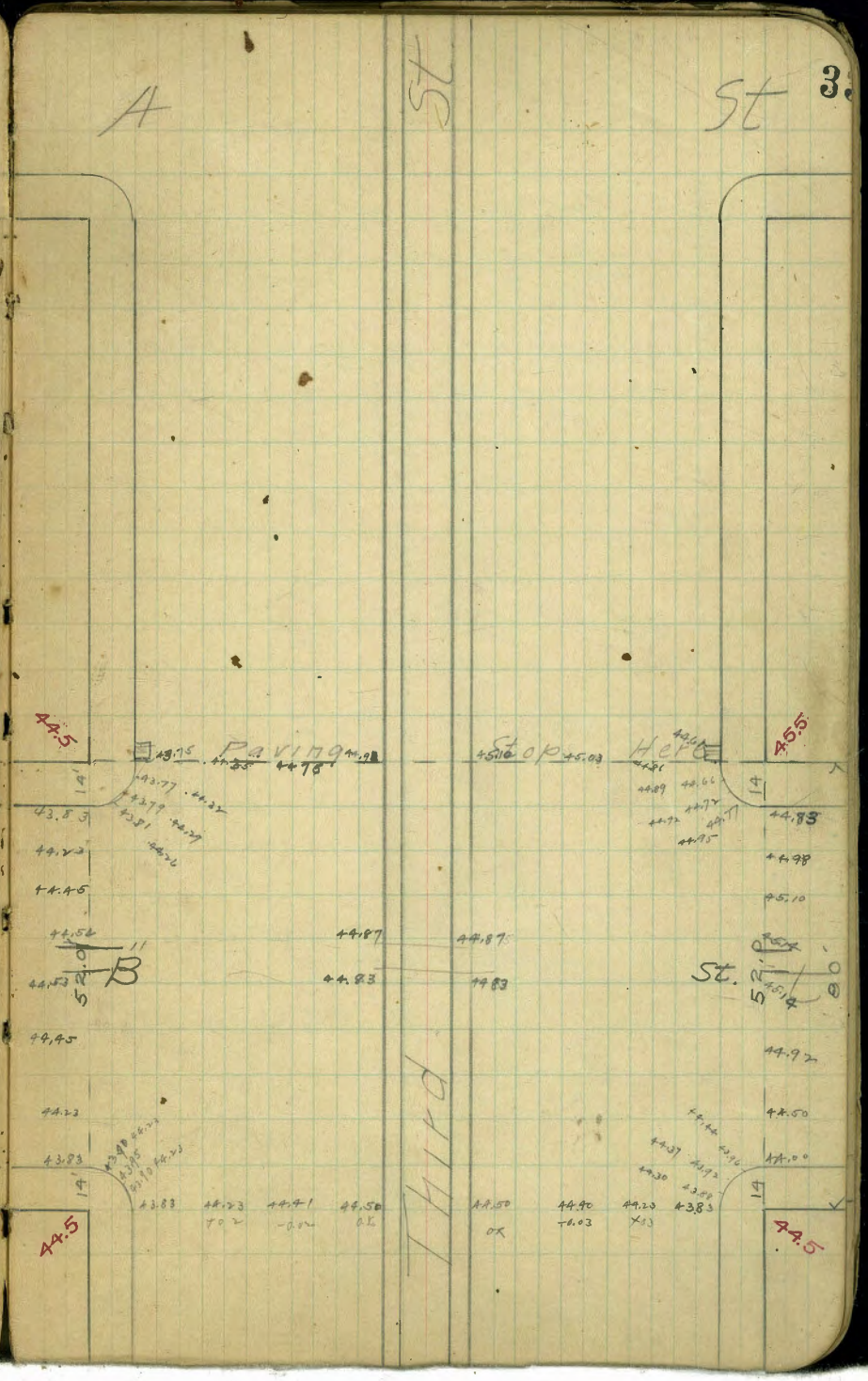
4.87 44.66 43.81 44.23 44.45 44.53 4.83 4.61
3.87 4.08 4.93 4.51 4.29 4.21 3.91 4.09

44.30 44.37 4.44 4.50 4.92 5.14 4.83 4.87
4.40 4.33 4.26 4.20 3.78 3.56 3.87 3.82

4.89 4.92 4.95 4.98 45.10 5.14 5.10 5.03 4.86
3.81 3.77 3.74 3.71 3.59 3.55 3.59 3.66 3.83

4.35 4.75 4.92 4.32 4.29 4.26 4.23 4.45 4.54
4.34 3.94 3.77 4.37 4.40 4.43 4.46 4.24 4.15

4.87 4.83 4.53 4.45 4.23
3.82 4.86 4.16 4.24 4.46



56.35
55
50.90 N1
3.97
46.93 T.D. Top Hydt
1.26
48.19 N1

3.81
44.38

4.36
43.83

5.78
42.41

5.92
42.27

42.35
5.84

42.39
5.80

44.50
3.69

44.40
3.79

44.23
3.96

46.93
1.06
47.99

44.50
3.49

46.93
0.23
47.16 N1

2.73
44.43

4.63
42.53

5.85
41.31

41.91
5.25

42.40
4.76

42.53
4.63

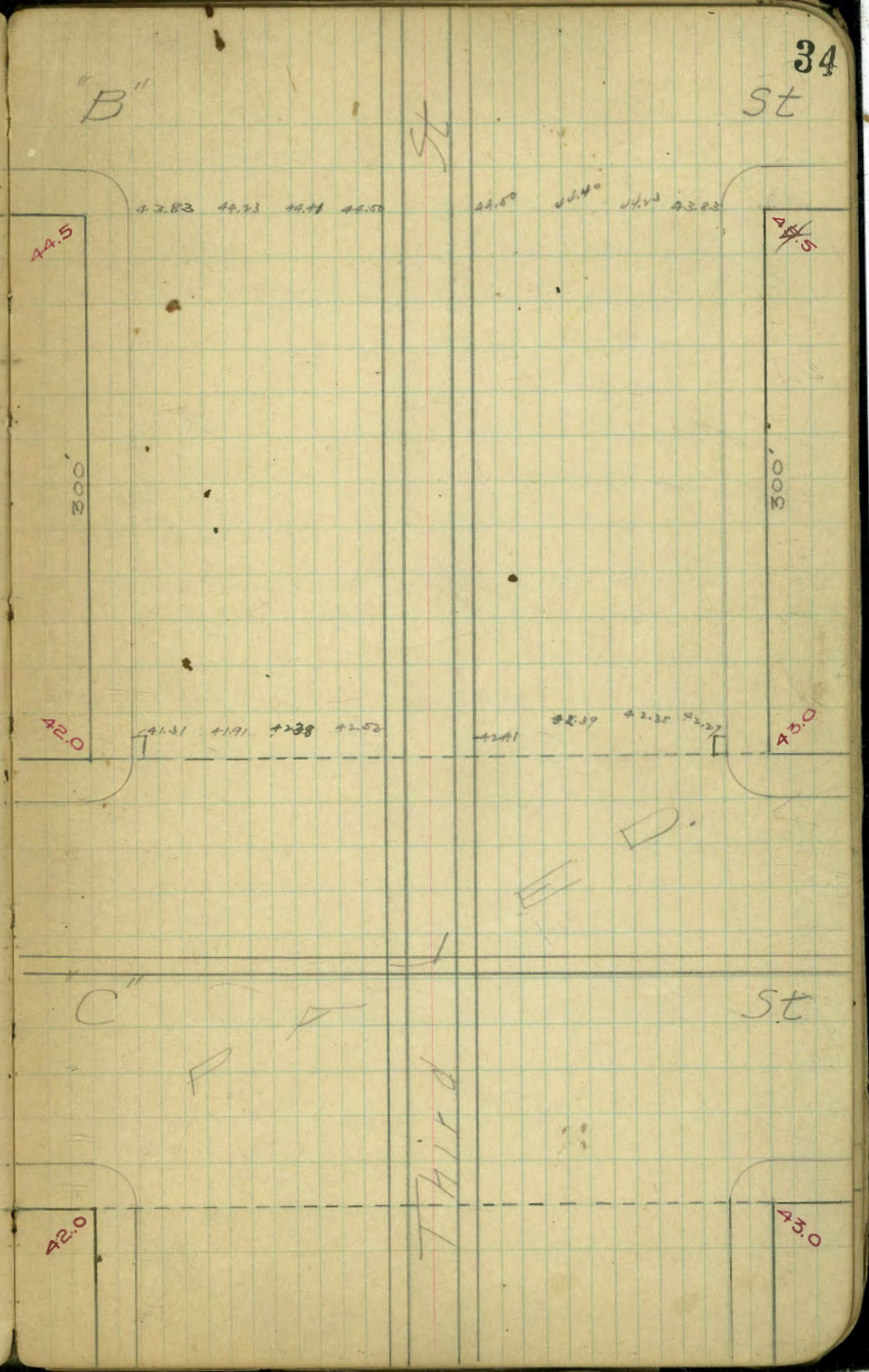
42.38
4.78

44.50
2.66

44.41
2.75

44.23
2.93

43.83
3.33



B.M S.W 3d & D 39.45

39.45 BM
7.28
46.73 H.I

39.45
6.58
46.03 H.I

39.45
6.47
45.92

39.45
6.73
46.18 H.I

5.85 / 40.88 — 5.04 / 41.69 — 4.55 / 42.18 — 5.40 / 41.33

4.36 / 41.67 — 42.10 / 3.93 — 3.82 / 42.21 — 42.11 / 3.92 — 41.93 / 4.10 — 3.66 / 42.37

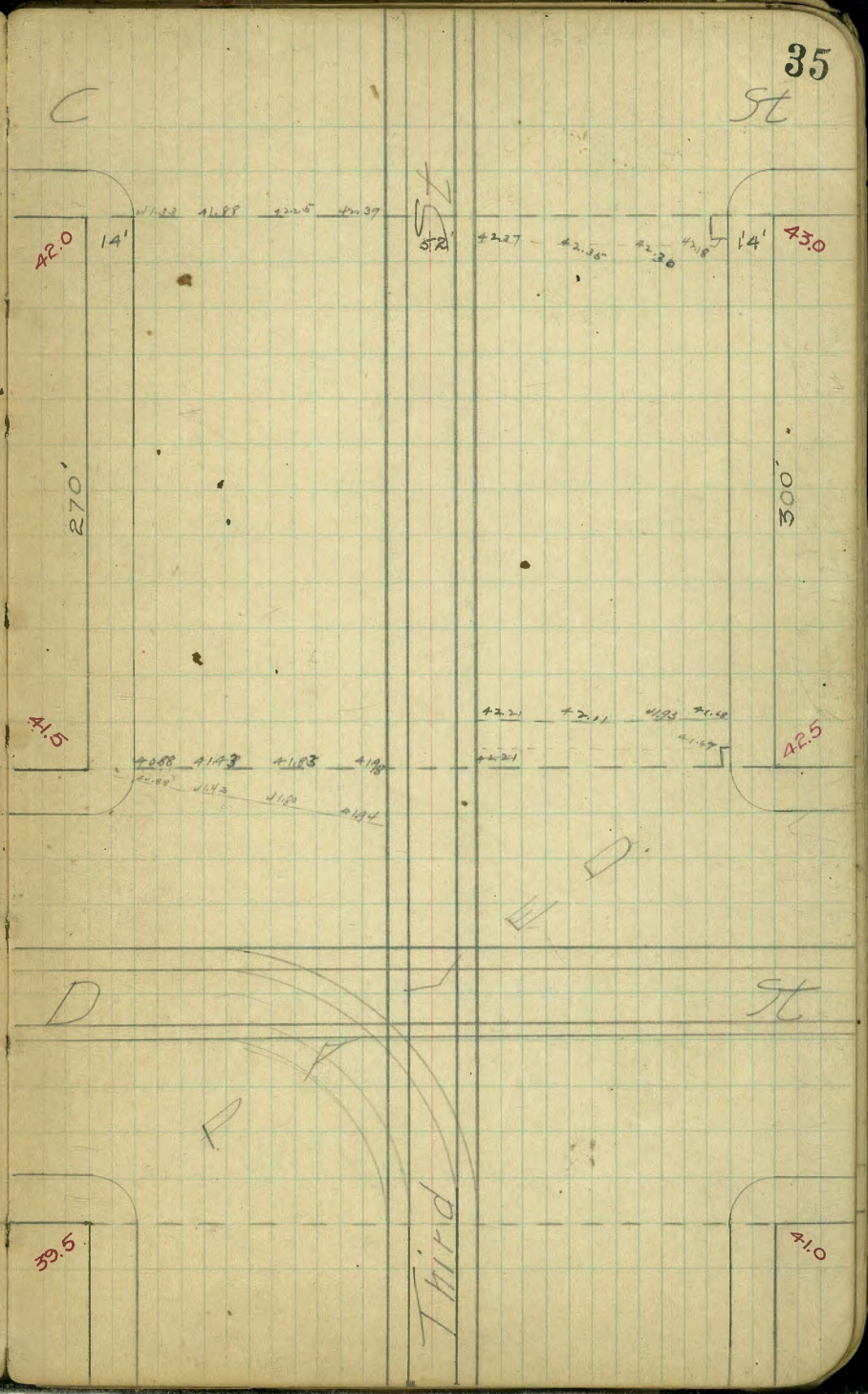
42.35 / 3.68 — 42.30 / 3.73 — 42.18 / 3.85

3.98 / 41.94 — 41.80 / 4.12 — 41.43 / 4.49

3.94 / 41.98 — 5.05 / 40.87 — 41.43 / 4.49 — 41.85 / 4.07 — 41.98 / 3.94 — 3.53 / 42.39 — 42.25 / 3.67

42.39 / 3.53 — 42.25 / 3.67 — 41.88 / 4.04

4.51 / 41.67



BMS W. cor E 31.41

35.41 / 3.22 / 36.85 / 1.77

31.41 / 7.21 / 38.62 HI

31.41 / 7.81 / 39.22 HI

31.83 / 7.39 / 6.13 / 33.09 / 32.67 / 6.55 / 32.00 / 9.22 / 31.67 / 7.55 / 30.83 / 8.39 / 31.00 / 8.22

1.90 / 37.32 / 2.28 / 36.94 / 36.33 / 2.89

9.17 / 40.58 HI / 36.33 / 2.89 / 36.33 / 4.25 / 37.50 / 3.08 / 0.75 / 39.82

39.45 / 2.88 / 42.33 HI

37.30 / 5.02 / 3.93 / 38.40

31.41 / 9.17 / 40.58 HI

7.69 / 32.89 / 2.63 / 36.95 / 1.02 / 39.56 / 2.16 / 38.42

31.41 / 8.65 / 40.06 HI

32.89 / 7.17 / 32.78 / 7.28 / 32.43 / 7.63 / 36.95 / 3.11 / 36.90 / 3.16 / 36.48 / 3.38 / 39.52 / 0.50 / 39.40 / .66

39.02 / 1.04

31.41 / 4.60 / 36.01 HI

31.82 / 4.18 / 30.95 / 5.06 / 30.91 / 5.10 / 30.87 / 5.14 / 31.95 / 4.06 / 32.00 / 4.01 / 31.90 / 4.11 / 31.50 / 4.51

31.76 / 4.25 / 31.43 / 4.58 / 31.75 / 4.26 / 31.86 / 4.15 / 32.89 / 3.11 / 32.78 / 3.22 / 32.43 / 3.58 / 3.86 / 38.65

3.77 / 32.24 / 31.45 / 4.56

37.35 / 5.16 / 42.51 HI

5.00 / 37.50

31.41 / 5.17 / 36.58 HI

4.56 / 32.02 / 32.05 / 4.53 / 32.00 / 4.58 / 31.87 / 4.71

5.66 / 39.45 / 45.11 / 6.01 / 39.11 / 6.47 / 38.62

39.45 / 3.81 / 43.26 HI

38.66 / 4.60 / 37.35 / 5.91

5.77 / 37.39

31.41 / 8.45 / 39.86 HI

1.77 / 33.09 / 33.03 / 6.83 / 32.87 / 6.99 / 2.56 / 37.30 / 37.33 / 2.53 / 37.43 / 2.43 / 37.52 / 2.34

0.90 / 40.32 / 40.25 / 0.98 / 40.03 / 1.20

39.45 / 1.78 / 41.23 HI

2.68 / 38.55 / 38.83 / 2.40 / 38.72 / 2.51 / 38.60 / 2.63 / 38.66 / 2.57 / 35.84 / 2.94 / 35.26 / 3.52

31.41 / 7.37 / 38.78 HI

34.18 / 4.60 / 34.63 / 4.15 / 3.49 / 35.29 / 34.40 / 4.38 / 34.63 / 4.15 / 35.04 / 3.74 / 35.29 / 3.49 / 34.68 / 4.10

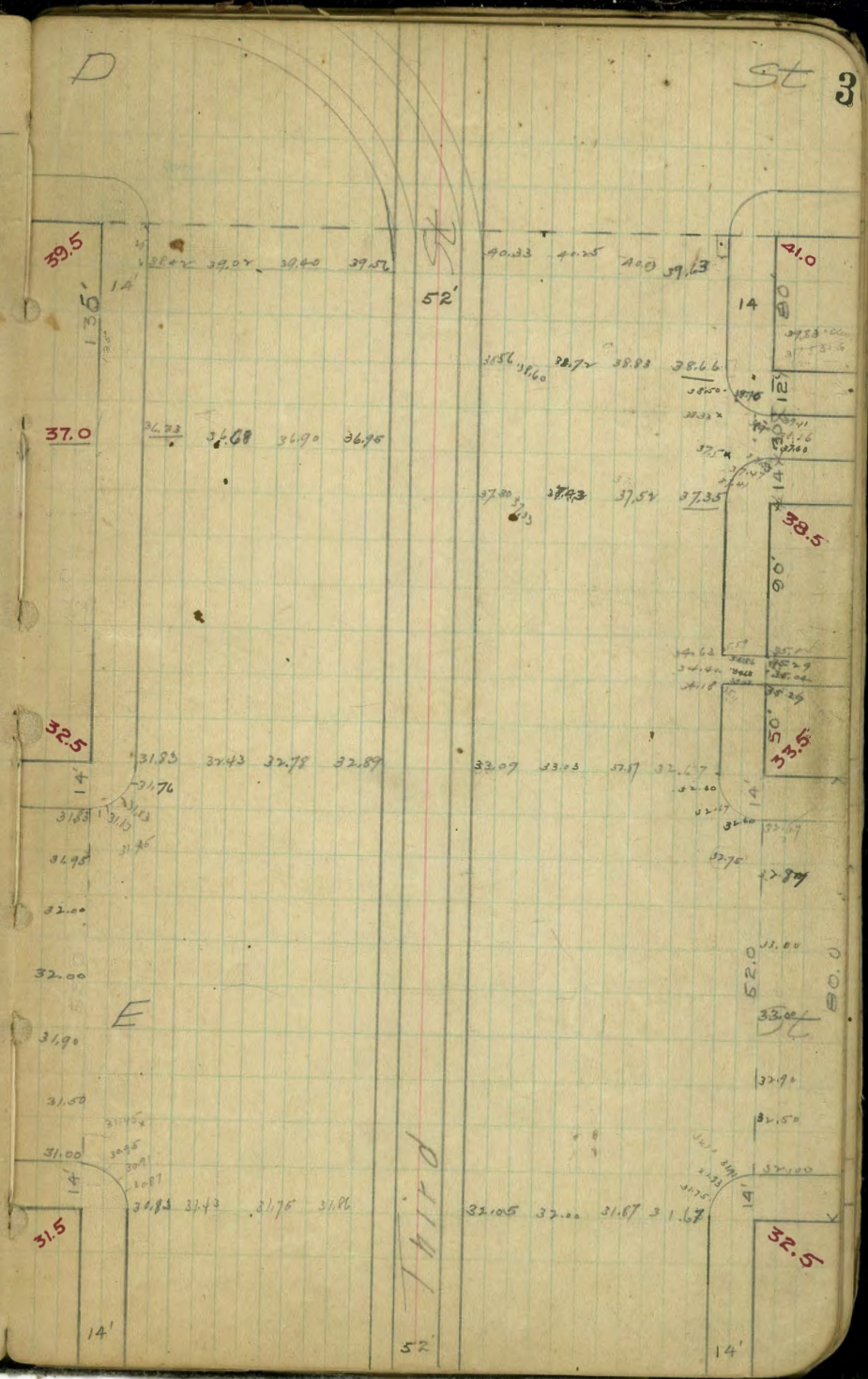
34.86 / 3.92 / 3.92 / 3.20 / 37.29 HI

31.41 / 5.88 / 37.29 HI

32.67 / 4.62 / 32.60 / 4.69 / 32.00 / 31.91 / 5.38 / 31.83 / 5.46 / 31.75 / 5.54 / 31.67 / 32.50 / 4.79 / 32.91 / 4.39 / 33.0 / 4.29 / 32.87 / 4.42

45.11 HI

32.31 / 4.99 / 32.75 / 4.54



B.M. S.W.F. 23.395

23.40
5.79
29.19 Hi

22.83 / 6.36 — 23.00 / 6.19 — 23.83 / 5.36 — 24.67 / 4.52 — 24.00 / 5.19 — 23.67 / 5.52 — 4.92 / 4.80 / 4.65

31.41
1.53
32.94 Hi

1.08 / 31.86 — 8.15 / 24.89 — 24.77 / 8.17 — 24.43 / 8.51

23.39
5.28
28.67

24.43 / 4.24 — 24.77 / 3.90 — 24.89 / 3.78

23.40
1.91
25.31

22.83 / 2.48 — 1.45 / 23.86 — 23.75 / 1.56 — 23.43 / 1.88

23.83 / 4.52 — 23.76 / 4.59

23.39
4.96
28.35 Hi

23.00 / 5.35 — 22.96 / 5.39 — 22.92 / 5.43 — 22.88 / 5.47 — 22.83

23.39
5.22
28.61 Hi

23.50 / 5.11 — 23.95 / 4.66 — 24.00 / 4.61 — 23.90 / 4.71 — 23.50 / 5.11

23.39
5.33
28.72 Hi

23.42 / 5.29 — 23.75 / 4.97 — 23.86 / 4.86 — 23.46 / 5.26 — 23.95 / 4.77

23.39
4.62
28.01

24.09 / 3.92 — 24.03 / 3.98 — 23.87 / 4.14 — 2.88 / 25.13 — 25.05 / 2.96 — 24.87 / 3.14

24.50 / 3.51 — 24.90 / 3.11 — 25.00 / 3.01 — 24.92 / 3.09 — 23.91 / 4.10 — 23.83 / 4.18 — 23.75 / 4.26 — 24.67 / 3.34

24.60 / 3.41 — 24.30 / 3.71

23.39
4.52
27.91 Hi

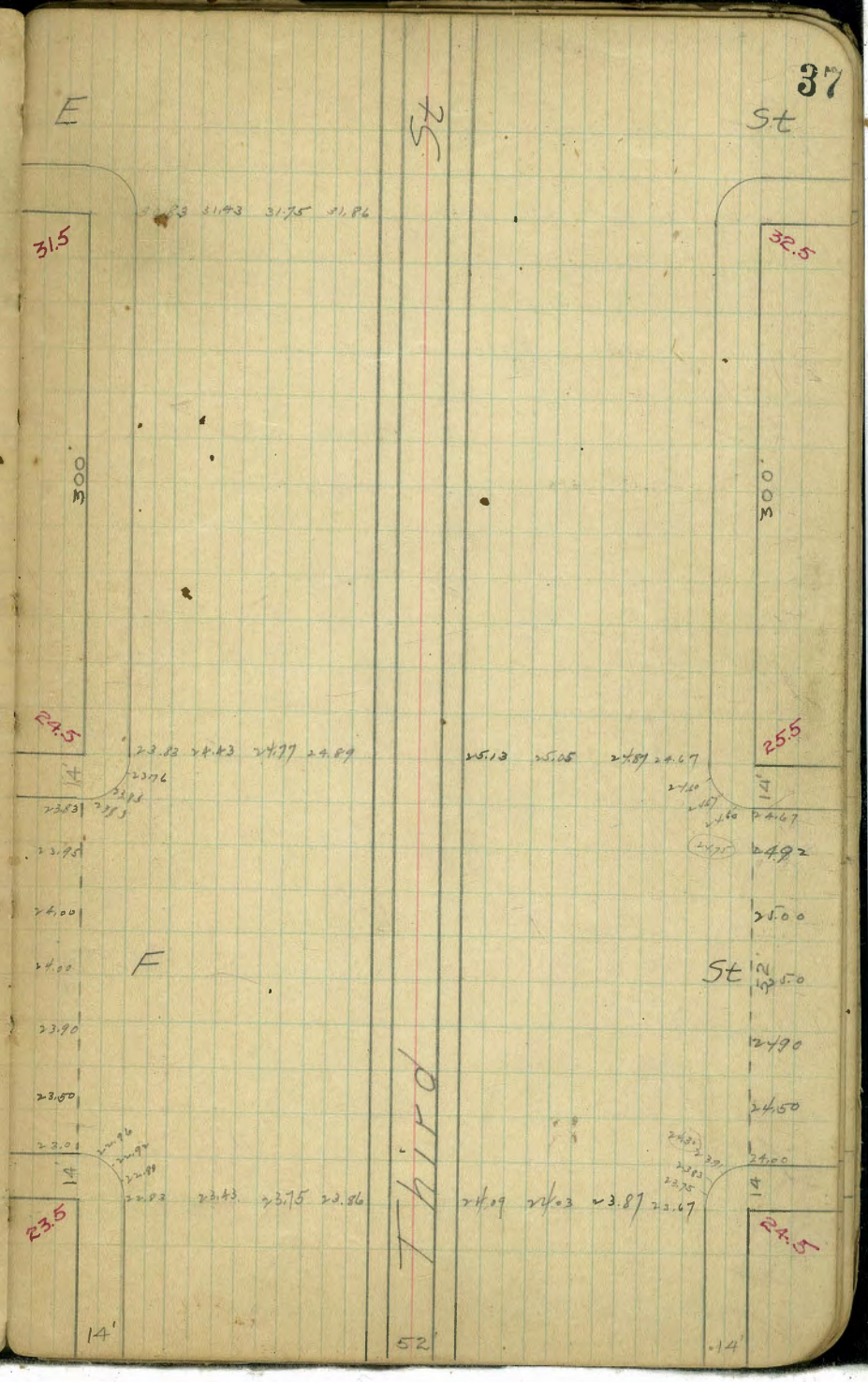
23.86 / 4.05 — 25.13 / 2.71

4.45
27.84 Hi

23.86 / 3.98 — 24.89 / 2.95 — 23.95 / 3.89 — 24.00 / 3.84 — 23.50 / 4.34

23.39
4.45
27.84 Hi

24.75 / 3.09 — 2.91 / 24.93 — 24.30 / 3.54



B.M. G. S.W. Cor 17.48

23.40 / 3.04 / 26.44 HI — 24.50 / 1.94 — 23.50 / 2.94 — 23.67 / 2.77 — 22.83 / 3.61 — 22.00 / 4.44

17.48 / 6.00 / 23.48 HI — 17.00 / 6.48 — 16.83 / 6.65 — 17.67 / 5.81 — 18.00 / 5.48 — 17.83 / 5.65 — 18.67 / 4.81

25.31 HI — 6.39 / 18.92 — 18.78 / 6.53 — 18.43 / 6.88

17.48 / 4.95 / 22.43 HI — 17.83 / 4.60 — 16.96 / 5.47 — 16.92 / 5.51 — 16.88 / 5.55 — 17.83 / 4.60 — 17.76 / 4.67

17.48 / 1.39 / 18.87 HI — 17.50 / 4.93 — 17.90 / 4.53 — 18.00 / 4.43 — 17.95 / 4.48

17.85 / 1.02 — 0.82 / 18.05 — 18.92 / 6.54 — 5.90 / 19.06

17.48 / 7.48 / 24.96 HI — 18.91 / 6.05 — 19.01 / 5.95 — 18.87 / 6.09 — 1.11 / 23.85 — 0.87 / 24.09 — 24.03 / 0.93 — 23.87 / 1.09

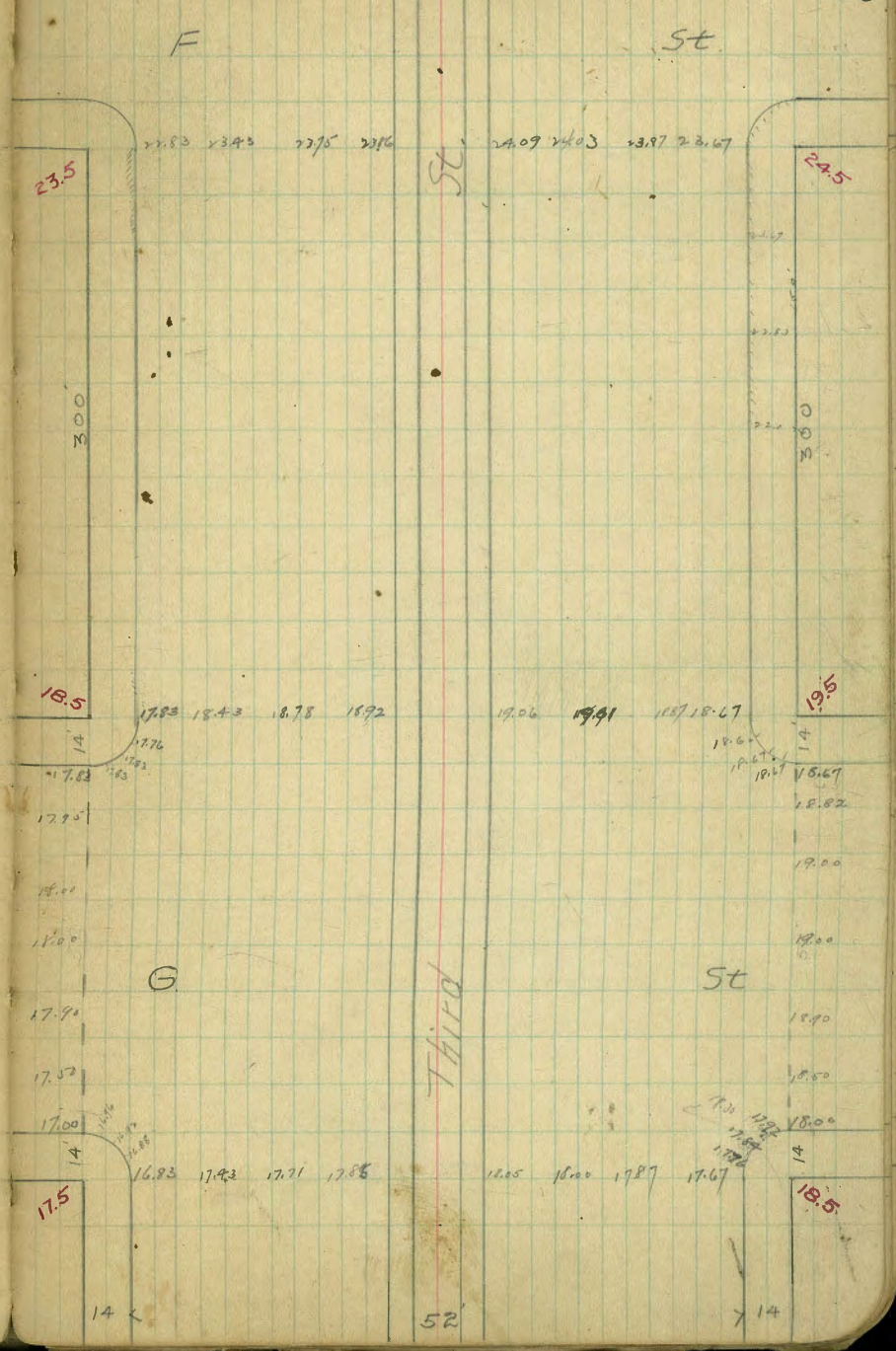
18.67 / 4.37 — 18.60 / 4.44 — 18.00 / 5.04 — 17.92 / 5.12 — 17.84 / 5.20 — 17.76 / 5.28 — 17.67 / 5.37

17.48 / 5.56 / 23.04 HI — 17.87 / 5.17 — 18.00 / 5.04 — 18.50 / 4.54 — 18.90 / 4.14 — 19.00 / 4.04 — 18.82 / 4.22 — 17.95 / 5.09 — 18.00 / 5.04

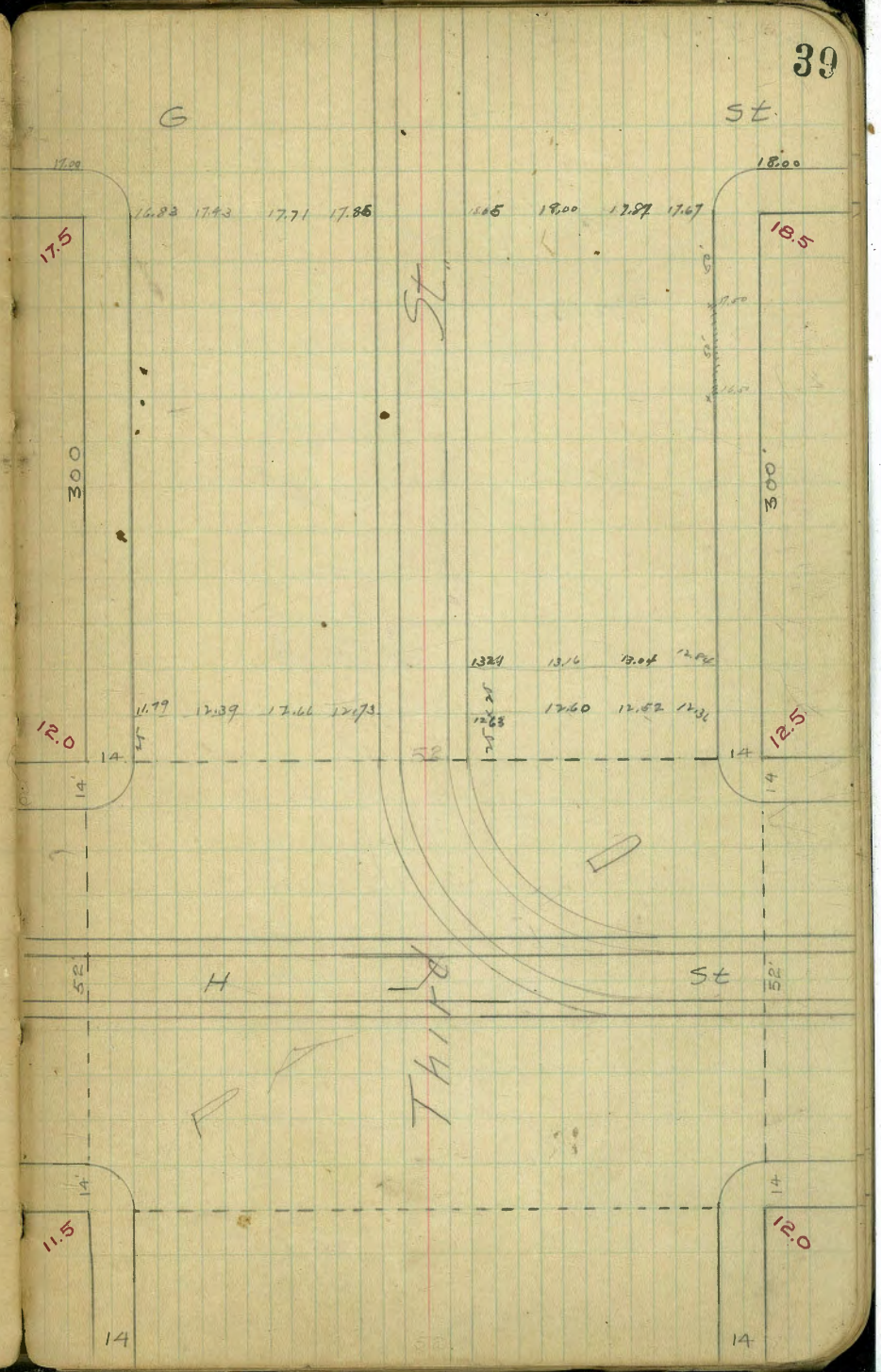
18.84 / 4.24 — 18.30 / 4.74 — 18.82 / 3.39 — 19.50 / 3.21

17.48 / 4.73 / 22.21 HI — 17.95 / 4.33 — 18.00 / 4.28

4.80 / 17.48 / 22.28 HI

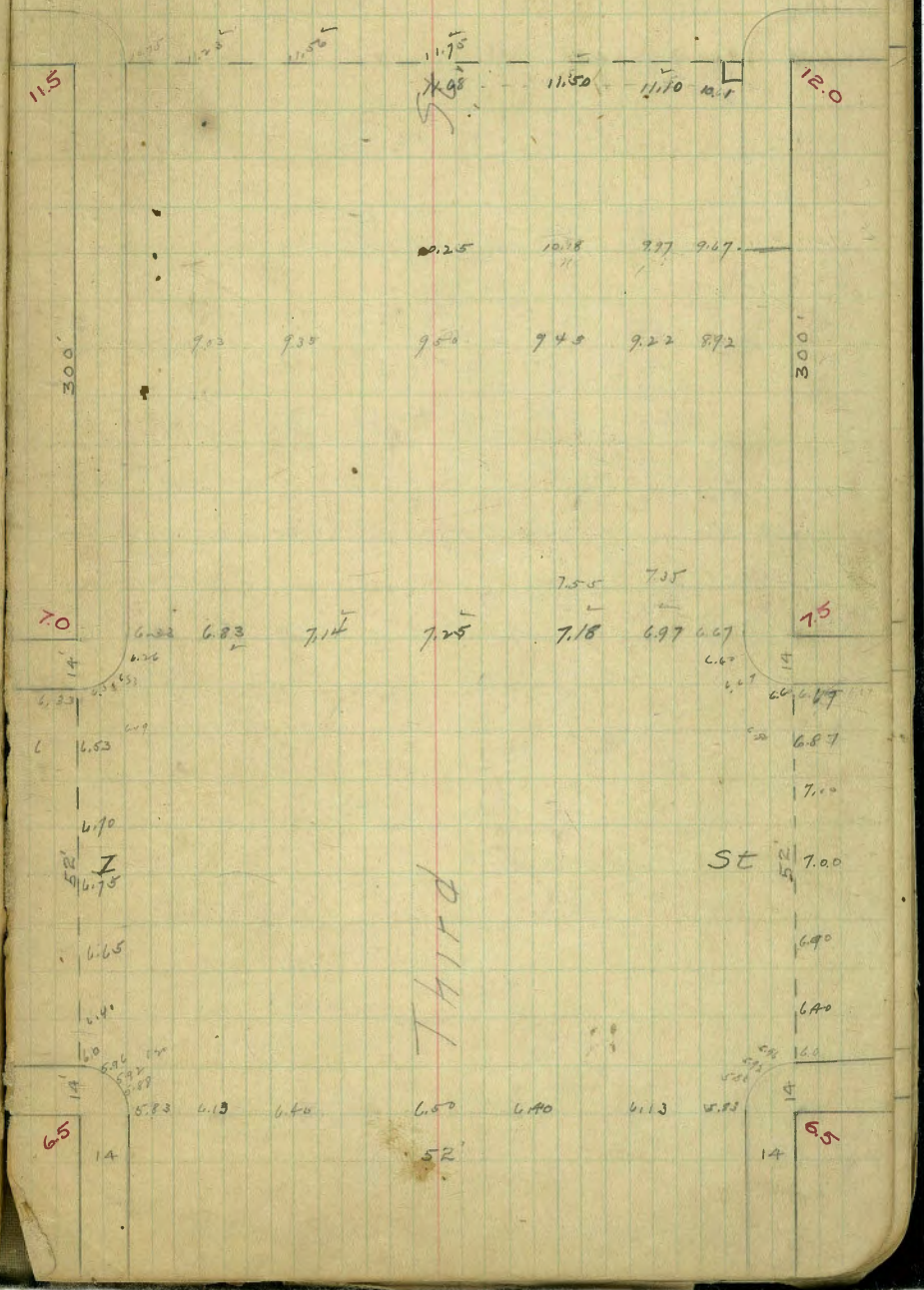


B.M. H S.W 11.46



B.M. I SW Cor 6.47

H St



J - S.W 1.48

6.47 BM I
4.36
10.83 HI

5.83 6.00
5.00 4.83

1.48
5.23
6.71 HI

1.00 0.83 1.33
5.71 5.88 5.38

6.47
2.54
9.01 HI

6.40 6.13 3.88 4.15 1.90
2.61 2.88 5.13 4.86 7.11

5.16

6.47 B.M.
1.32
7.79 HI

7.79 7.79 7.79 7.79 7.79 7.79
6.13 6.40 6.50 1.63 1.90 2.00
1.66 1.39 1.29 6.16 5.89 5.79

4.33
4.47

7.79 7.79 7.79 7.79 7.79
1.13 1.40 1.50 1.40 1.13
6.66 6.39 6.29 6.39 6.66

1.48
4.21
5.69 HI

0.95 0.91 0.87 0.83 1.00 1.33 1.29
4.74 4.78 4.82 4.86 4.09 4.36 4.40

1.40
4.32
5.72 HI

1.63 1.90 2.00 1.53 1.70 1.75 1.65 1.40
4.06 3.79 3.69 4.16 3.99 3.94 4.04 4.29

6.3
2.7

1.13 1.40 1.50 4.27
4.56 4.29 4.19 1.45

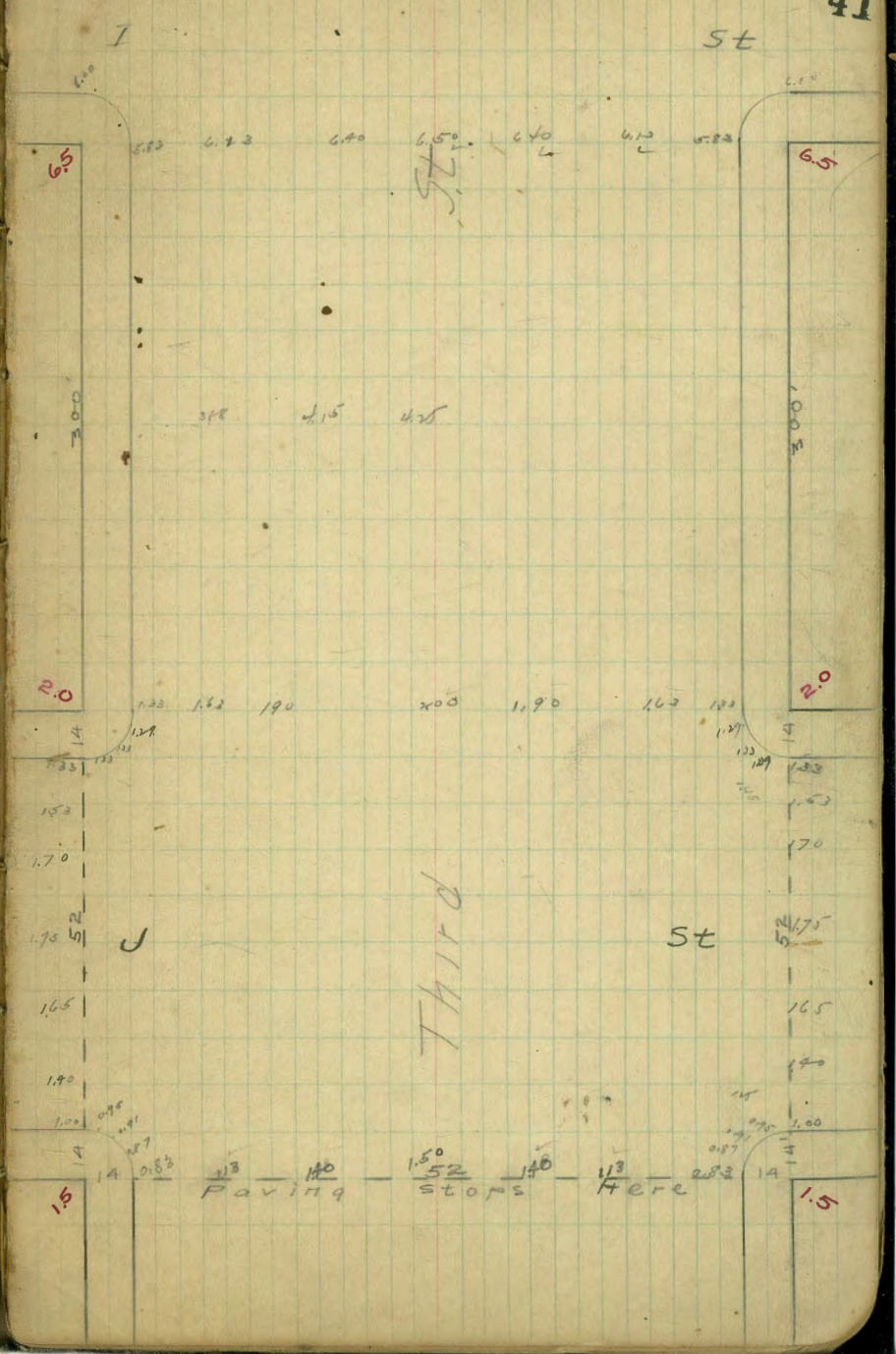
4.47
1.25

50
27
23

1.48
4.09
5.57 HI

1.33 1.29 1.63 1.90 1.75 1.40 1.65 1.75 1.70
4.24 4.28 3.94 3.67 3.82 4.17 3.92 3.82 3.87

1.53 1.13 1.40
4.04 4.44 4.17



224.18 N.E Laurel spk pole 222.00 N.W. Laurel brass plg

211.68 N.W Kal. Spk pole

211.507 N.W " brass plg

Laurel St

Paving 52' Stays Here

221.0

223.0

211.5

213.0

209.5

211.0

Kalmia St.

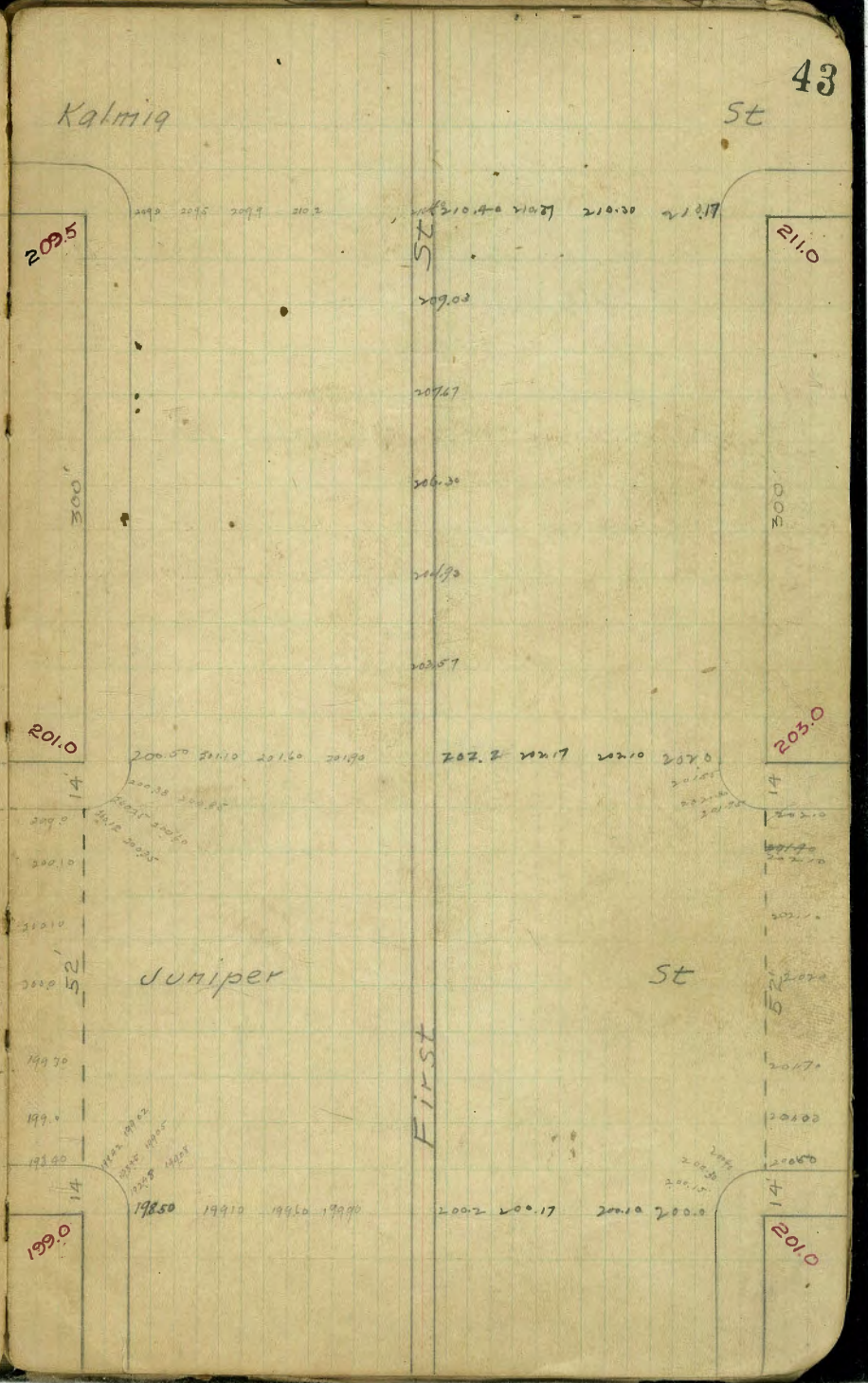
First St

203.35 S.E Juniper Star tip fire hydt.
200.90A N.W " brass cap

Kalmia St

Juniper St

First St



186.42 S.W/Ivy spk pole 200.904 N.W Juniper brass plg.

188.006 N.W " brass plg

6.71

194.72 Ht.

189.74 / 4.98 190.00 / 4.72 200.90 / 4.13 205.03 Ht. 200.20 / 4.83 200.00 / 5.03

188.01 / 5.18 188.10 / 5.09 187.86 / 5.33 7.92 / 5.27 7.62 / 5.57 7.74 / 5.45

193.19 Ht. 190.10 / 3.04 189.74 / 3.40 190.0 / 3.14 189.85 / 3.29 190.30 / 2.84 189.95 / 3.19 190.0 / 3.14

188.01 / 5.13

193.14 Ht. 190.10 / 3.04 189.70 / 3.44 189.10 / 4.04 189.50 / 4.64 188.40 / 4.74 188.30 / 4.84 188.15 / 4.99

188.01 / 7.09 188.0 / 5.14 187.74 / 3.40 189.74 / 5.36 190.10 / 5.00

195.10 Ht.

201.96 / 3.96 200.2 / 4.66 200.1 / 4.71 200 / 4.86 190.0 / 8.6 202.0 / 2.86

204.86 Ht.

188.01 / 4.79 187.50 / 5.30 185.5 / 7.30

192.80 Ht.

201.12 Ht.

201.17 Ht. 200.20 / 0.92 198.45 / 2.67 196.70 / 4.42 194.95 / 6.16 193.20 / 7.91 191.45 / 9.66

188.01 / 4.07 189.70 / 11.41

190.38 Ht.

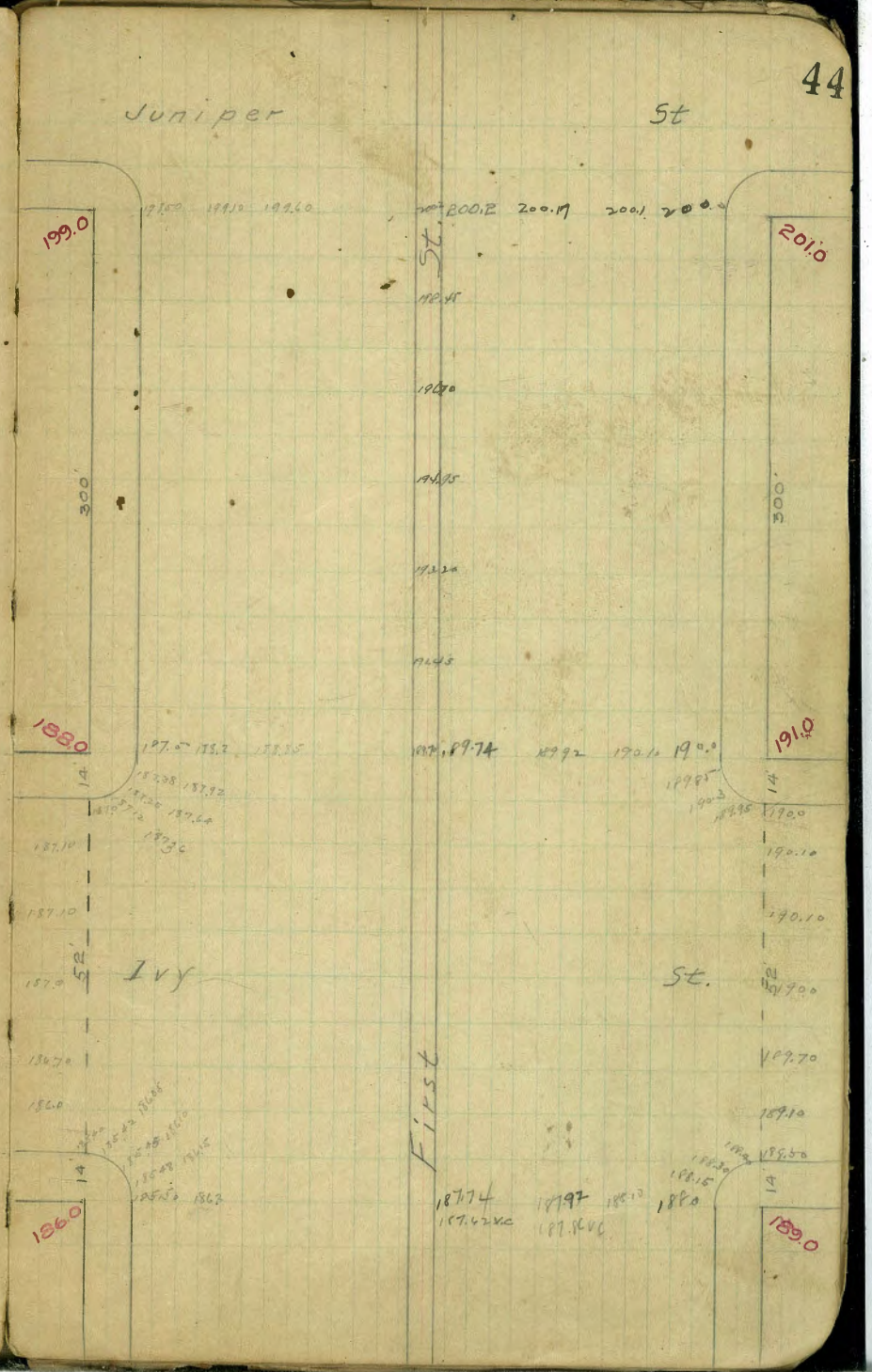
87.5 / 3.86 87.38 / 3.00 87.25 / 3.13 87.12 / 3.26 87.0 / 3.38 85.4 / 4.98 85.42 / 4.96 85.05 / 4.93 85.45 / 4.90 85.5 / 4.88

188.01 / 4.30 88.2 / 4.2 87.92 / 4.48 87.64 / 4.76 87.36 / 5.04 87.10 / 5.30 88.85 / 3.55 87.0 / 5.40 86.70 / 5.70 86.0 / 6.40 86.05 / 6.35 86.10 / 6.30 86.15 / 6.25

192.40 Ht.

188.01 / 3.86 187.64 / 4.23 86.2 / 3.67

192.87 Ht.



167.71 N.E. Haw'n Spk pile

164.50 N.W. ∴ 6"ø S.P.

10.77

175.27 H.I.
0.90
174.37
5.32
179.69

136.29 4.03 166.50 8.77 168.29 6.92 170.68 5.19 171.87 3.40 173.67 1.60 175.46 4.43 177.25 2.64

188.01
2.97
185.04 H.I.
3.29
187.74 2.94 188.20 2.73

164.50
4.30
160.8 H.I.
162.44 5.56 162.62 2.30 166.00 2.06 166.80 2.01 166.45 2.35 166.67 1.30 167.5 2.2

168.45 2.3 2.38 635 2.42 634 2.56 166.58 2.22 164. 4.8 163.95 4.85 163.90 4.90 163.7 5.10 163.5 5.3

353
164.50
168.03 H.I.
163.6 5.24 163.25 5.45 163.42 5.31 163.20 5.71 163.14 6.56 1665 2.50 166.20 2.14 166.0 2.3

165.50
2.53
165.50 H.I.
1645 4.75 163.10 493 163.35 4.6 163.6 4.43 164.4 3.41 164.1 3.41

168.47 H.I.
168.01
6.46
167.55
188.1 H.I.
187.96
1.42
185.54
177.3 H.I.
d8.05 .14 187.58 .6' 186.70 1.49 184.11 4.08 180.53 7.66 176.95 11.24

167.55 3.92 169.78 7.52 167.20 10.10 166.32 10.98 165.67 11.63

14450
2.17
144.33
144.40 H.I.
6337 3.44 6325 3.67 6369 6362 3.32 6350 3.97 6090 6.50 6092 6.52 6095 6.49 6098 6.46 644

6170 6.54 6230 5.14 6269 4.75 6168 6174 6162 5.79 6160 5.82 6260 4.94 62.. 4.49 62.30 4.14 63.5 3.94

1640
347
161.93 H.I.
6370 4.11 6414 3.83 6447 3.50 6470 2.74 6535 6570 2.39 2.17

153.01
239
152.90 H.I.
862 4.70 8686 4.05

Ivy St

Set B on average of A.T.C. A = Rail

185.5 186.2 186.85 187.30 B 187.74 188.05

186.0

For stakes 2' from rail

Stretch string from line of stakes 10' W of trail to top rail - drive 2' stakes 0.3 below string

300'

164.5

164.0 164.70 165.35 165.80 166.24 166.36 V.C.

163.50 163.58 163.30

Rule these three rows in from top of rail to P.I. Stake 2' from Hawthorne rail drop about 0.03 below the line from top of rail to P.I.

162.50 161.60 160.90

First St

161.5

161.0 161.70 162.35 162.30 V.C. 162.80 163.74 163.10 V.C. 163.5

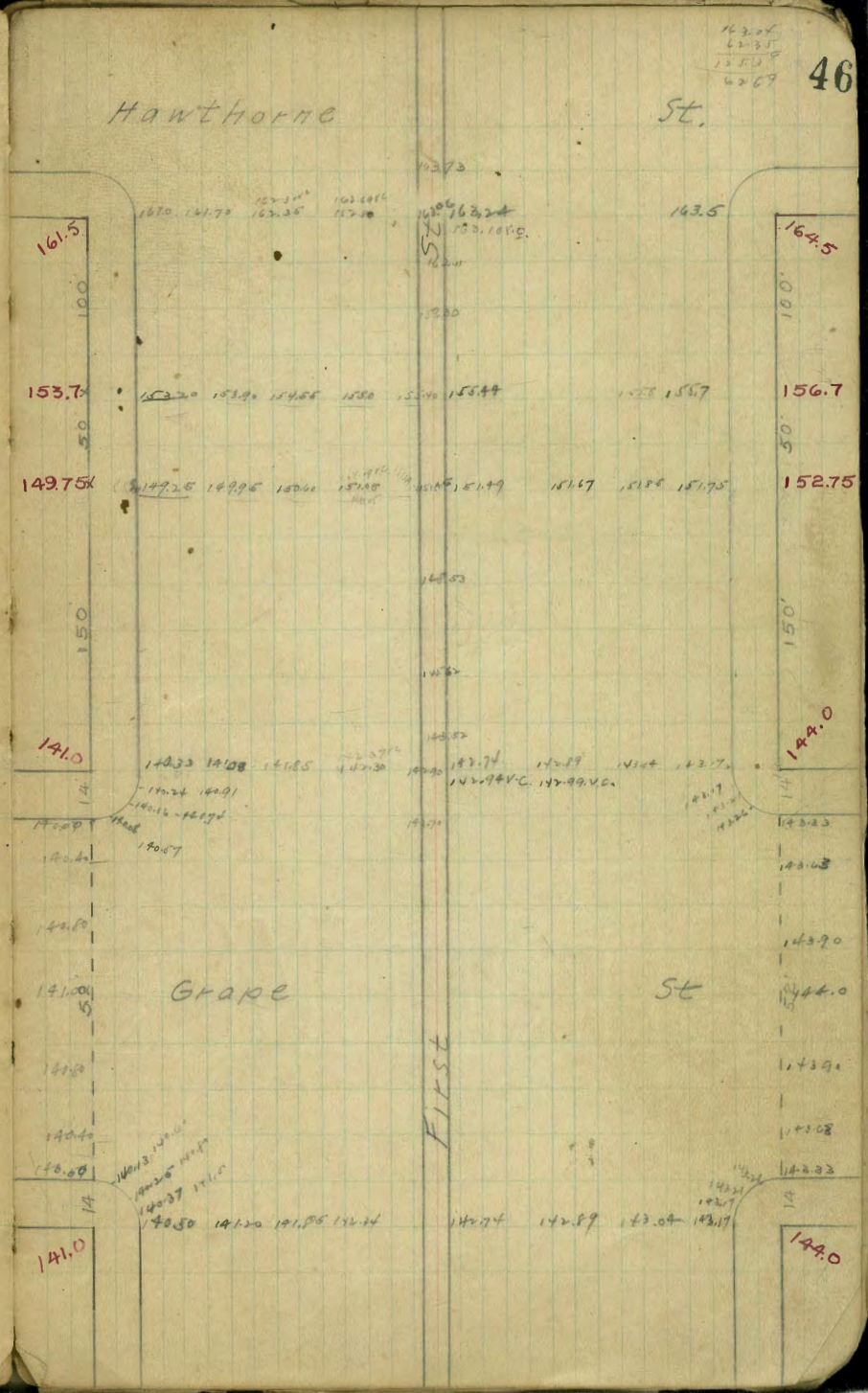
189.0 186.71 184.92 182.63 180.84 179.05 177.25 175.46 173.67 171.87 170.08 168.29 166.5 166.58 166.30 166.0 165.50 165.65 1640

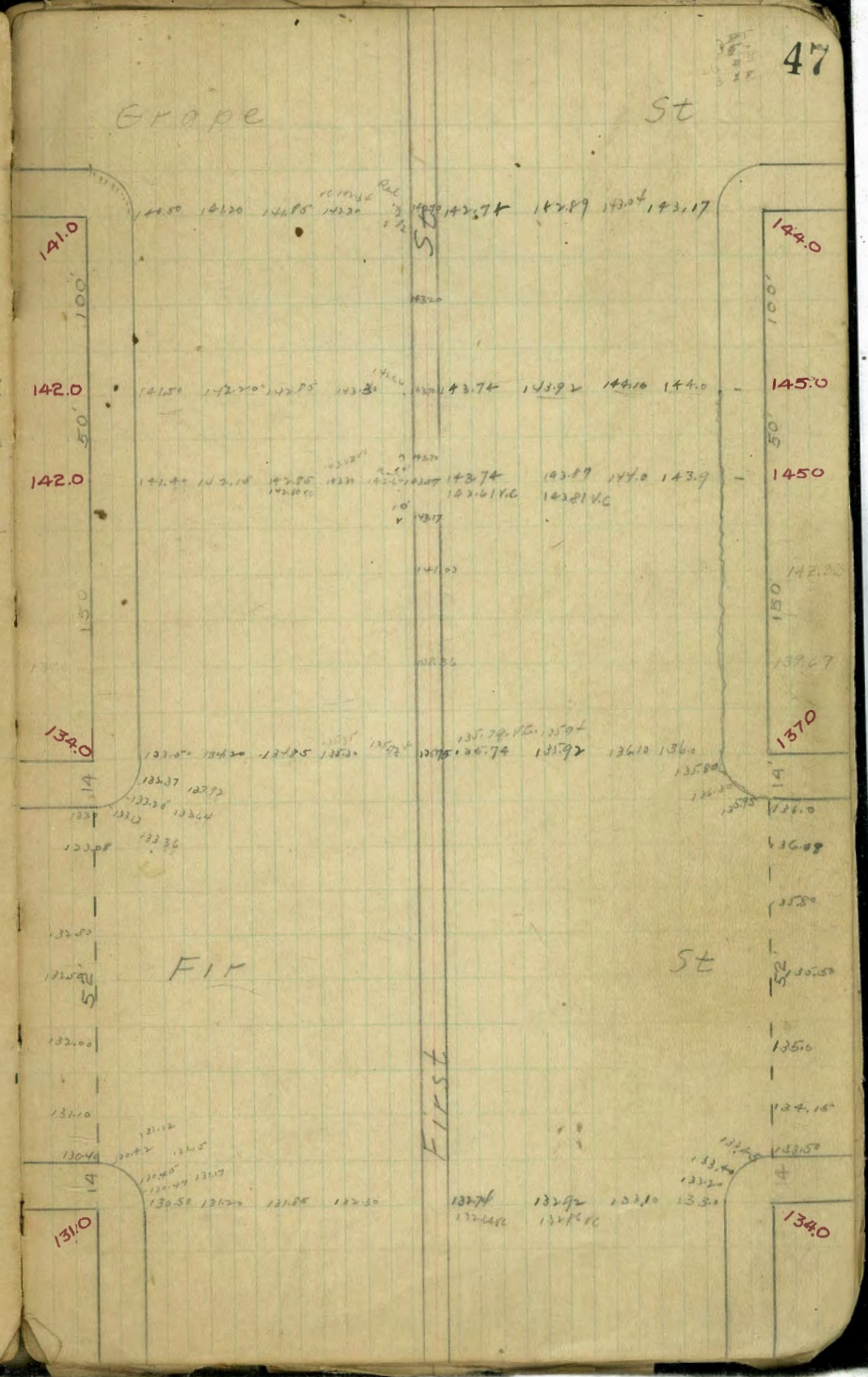
300'

167.5

St.

164.5


Hawthorne St.
Grape St
First
161.5
153.7
149.75
141.0
164.5
156.7
152.75
144.0
100'
50'
150'


Grape St
Fir St
First
141.0
142.0
142.0
134.0
144.0
145.0
145.0
137.0
134.0
131.0

112.93 N.E Elm pl grk.

Fir St

Elm St

First

131.0

110.0

134.0

113.00

107.0

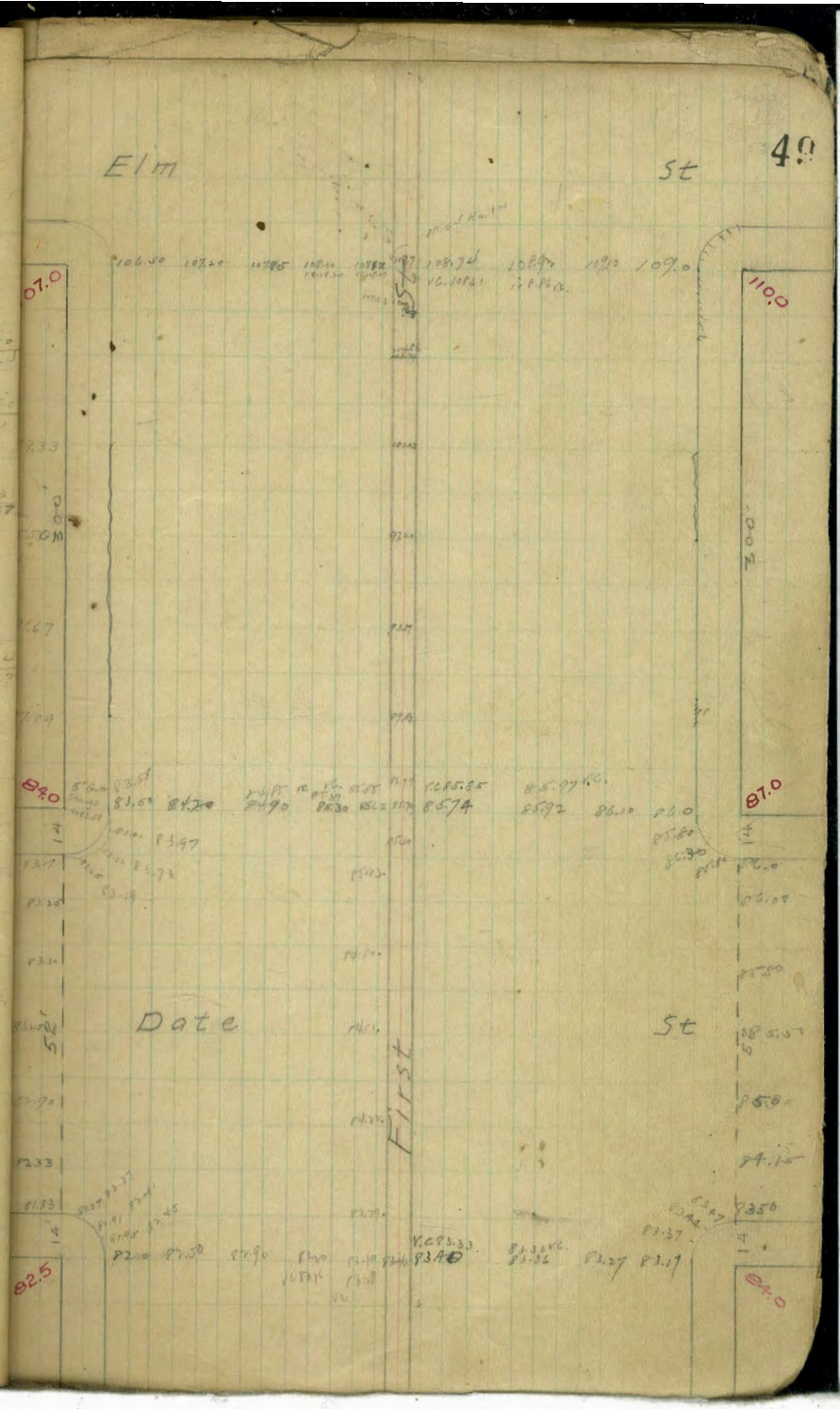
110.0

300'

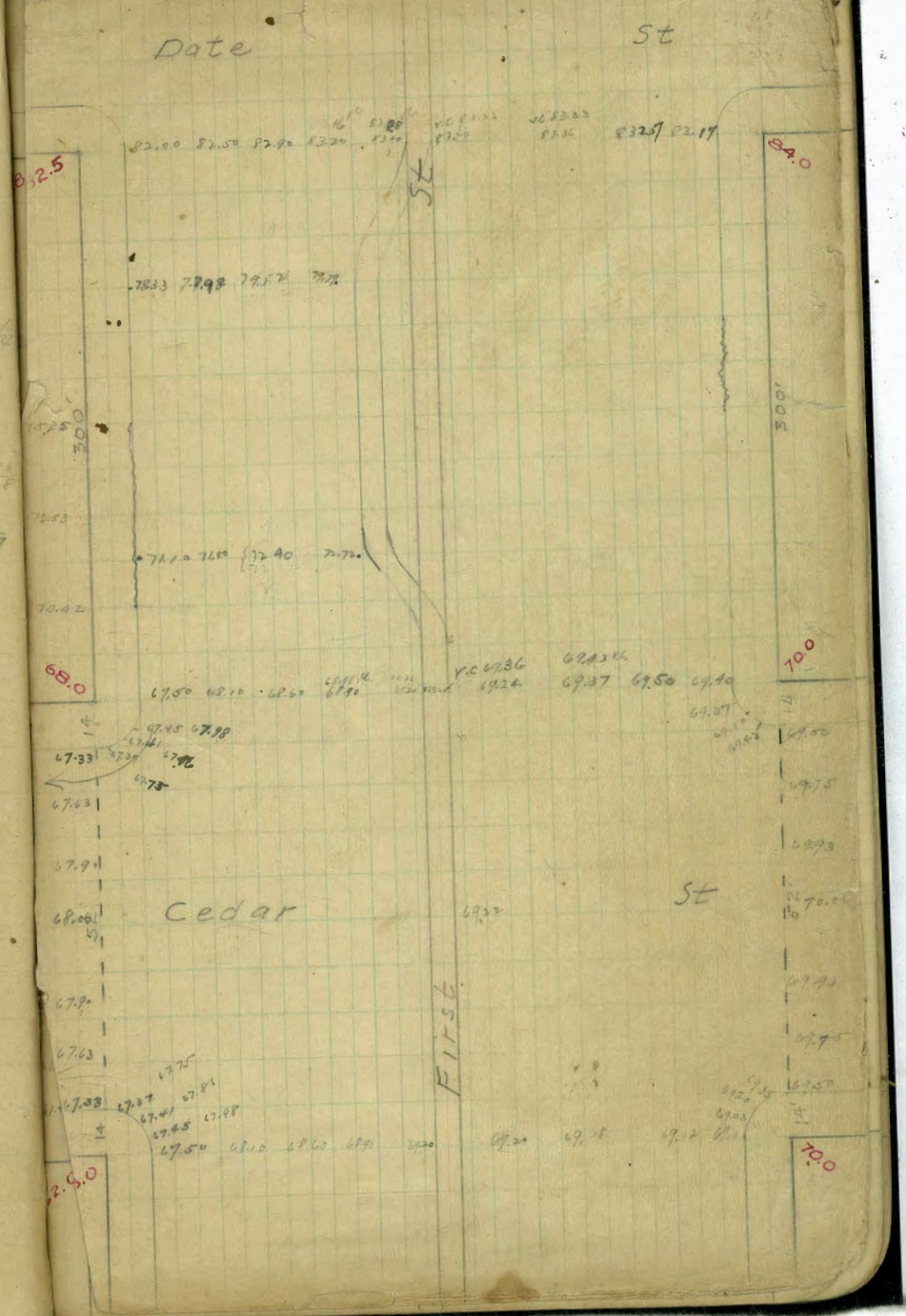
300'

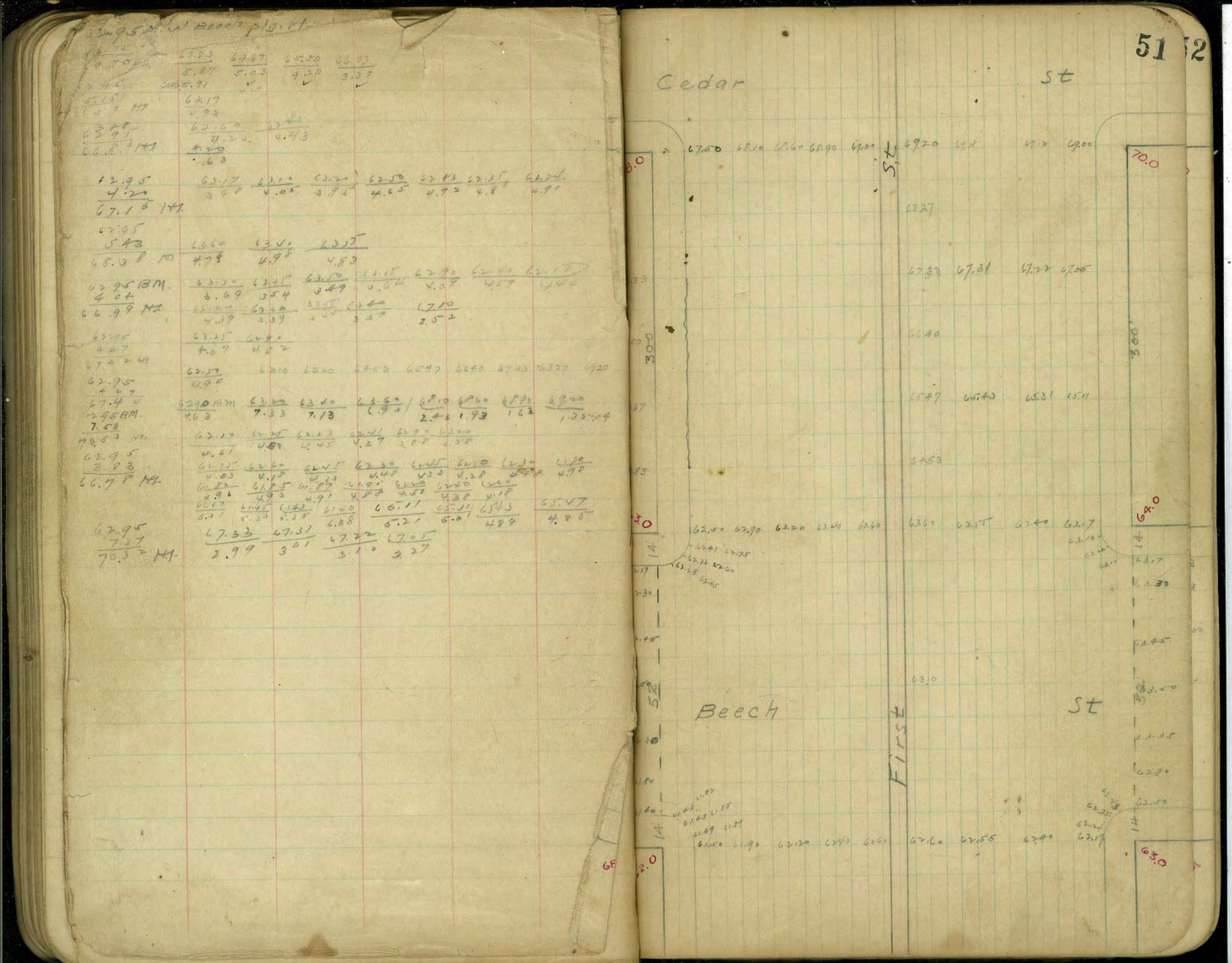
112.93 N.E Elm plart.

84.43 N.W. Date plg. rt.



67.90 N.W. Cedar pl. g. rt.



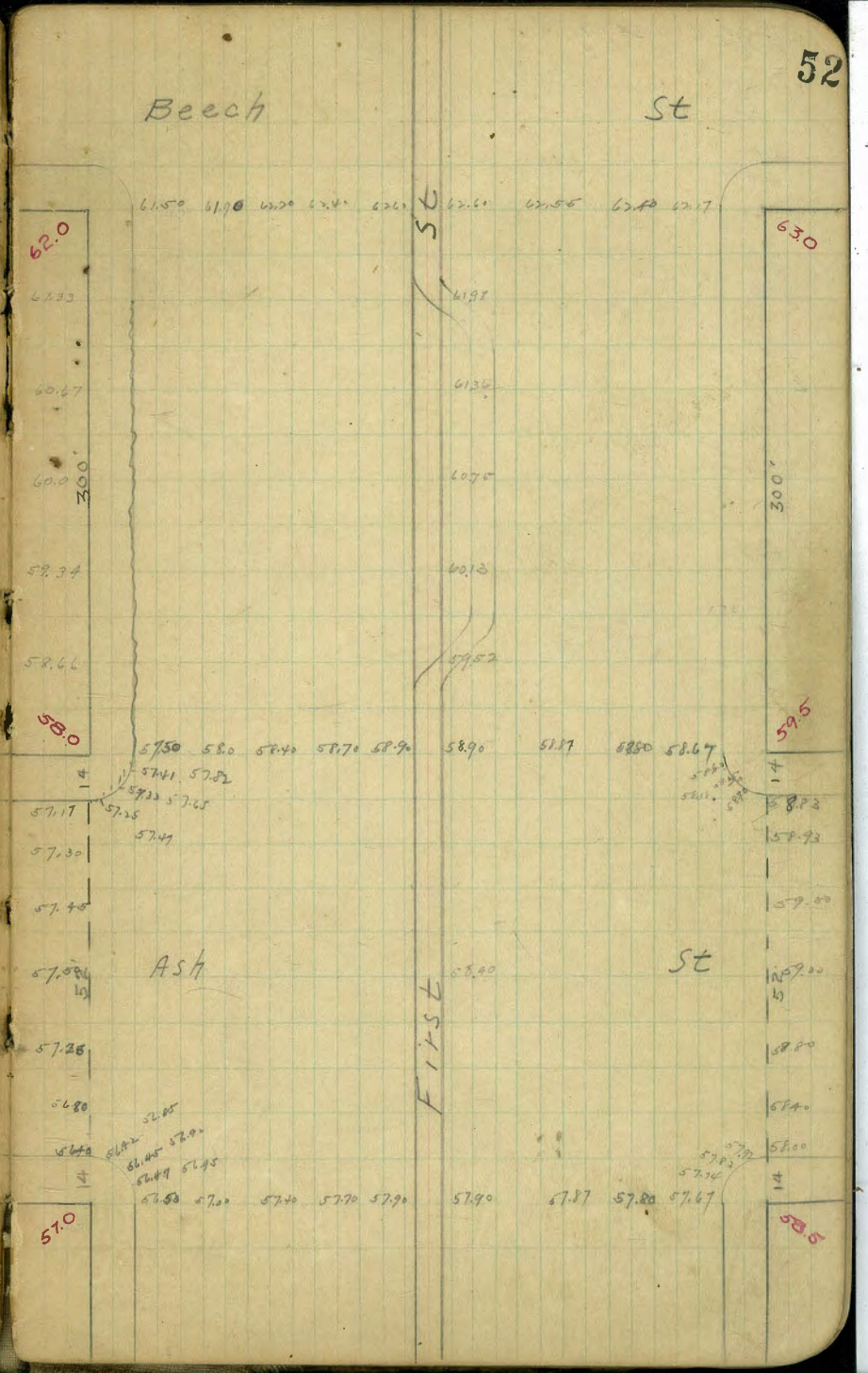

Cedar St
Beech St
First St
300'
70.0
64.0
63.0
68.0

57.95 N.W. Ash plg. rt.

Beech St

Ash St

First St



47.97 S.W. "A" Pkg. rt.

7.93
55.90 H.I.
1.467.8
54.44
8.80
63.24 H

49.50 / 6.40 ✓ | 50.75 / 5.15 ✓ | 52.00 / 3.90 ✓ | 53.25 / 2.65 ✓ | 54.50 / 1.40 / 1.4 Long Elev. | 55.75 / 7.49 | 57.00 / 6.24 | 57.49 / 6.15

4.80
4.85

49.17 / 4.15 | 48.83 / 4.49 | 47.33 / 5.99 | 49.33 / 3.99

47.97
5.35
53.32

49.80 / 3.95 | 49.75 / 4.00 | 49.60 / 4.15

47.97
5.78
~~53.75~~ H1

47.97
5.20
53.17 H1

49.33 / 3.8 | 49.08 / 3.99 | 47.50 / 5.67 | 47.48 / 5.69 | 47.40 / 5.79

47.97
5.57
53.54

47.36 / 6.18 | 48.10 / 5.44 | 48.70 / 4.84 | 49.00 / 4.54 | 49.25 / 4.29 | 49.38 / 4.16

48.83
4.70

47.97
5.59
53.56 H

48.0 / 4.29 | 48.90 / 8.39 | 48.0 | 48.90 / 5.97 / 5.64

47.97 B.M.
9.32
57.29 H1
6.74
5.65
7.43
6.39 H1
13
5.09
3.30
50.37 H1

49.80 / 4.57 / 4.70 | 51.15 / 12.83 / 13.00 | 52.50 / 11.48 / 11.65 | 53.85 / 3.44 / 2" Conc. | 55.20 / 8.78 / 8.95 | 56.55 / 7.43 / 7.60 | 57.90 / 6.08 / 2" Conc.

47.97
5.02
52.99 H1

49.80 / 3.19 | 49.70 / 3.29 | 49.53 / 3.46 | 49.23 / 3.76

57.95
3.93
61.88 H1

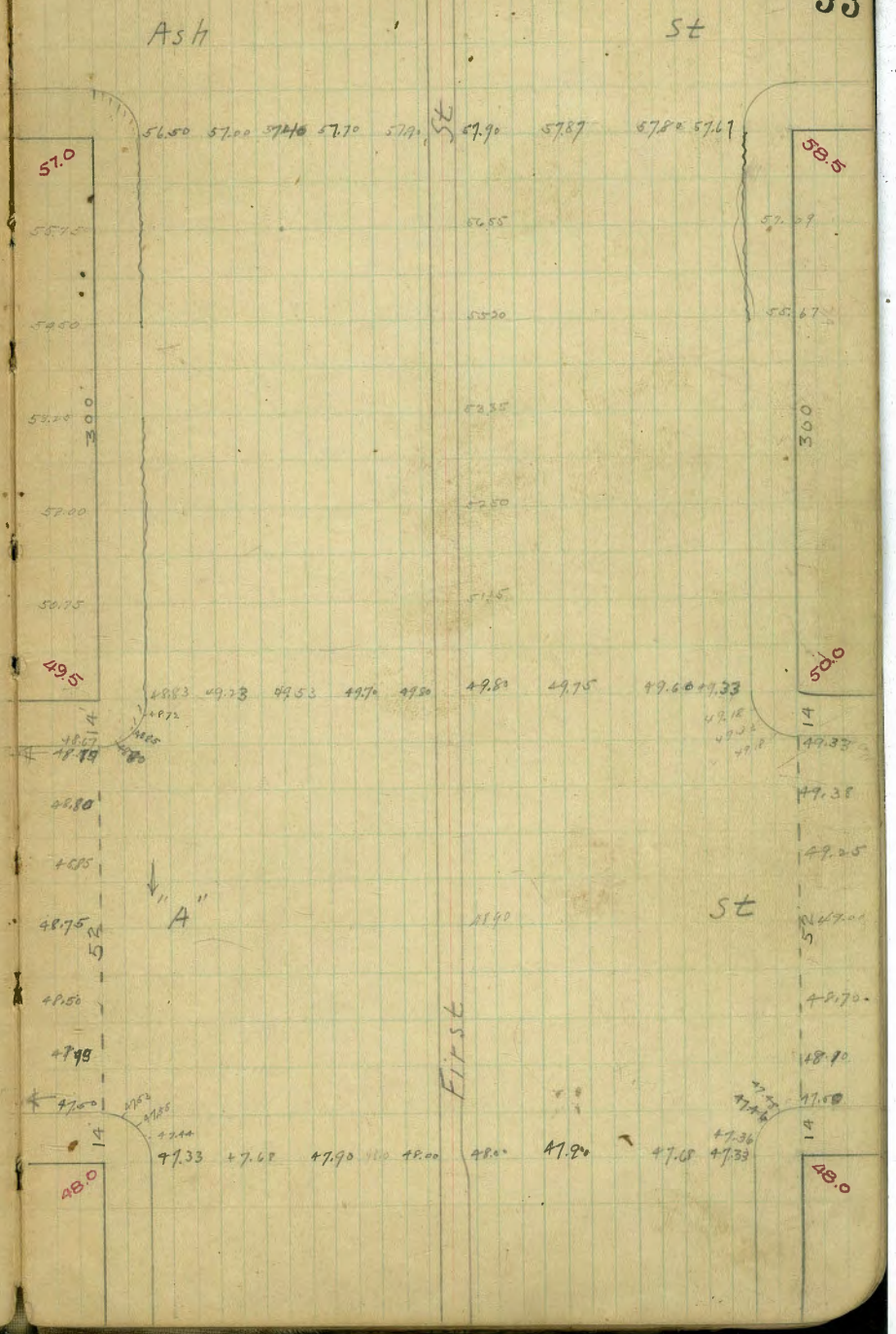
57.90 / 3.98 | 57.70 / 4.18 | 57.40 / 4.48 | 57.00 / 4.88

47.97
4.43
52.40 H1

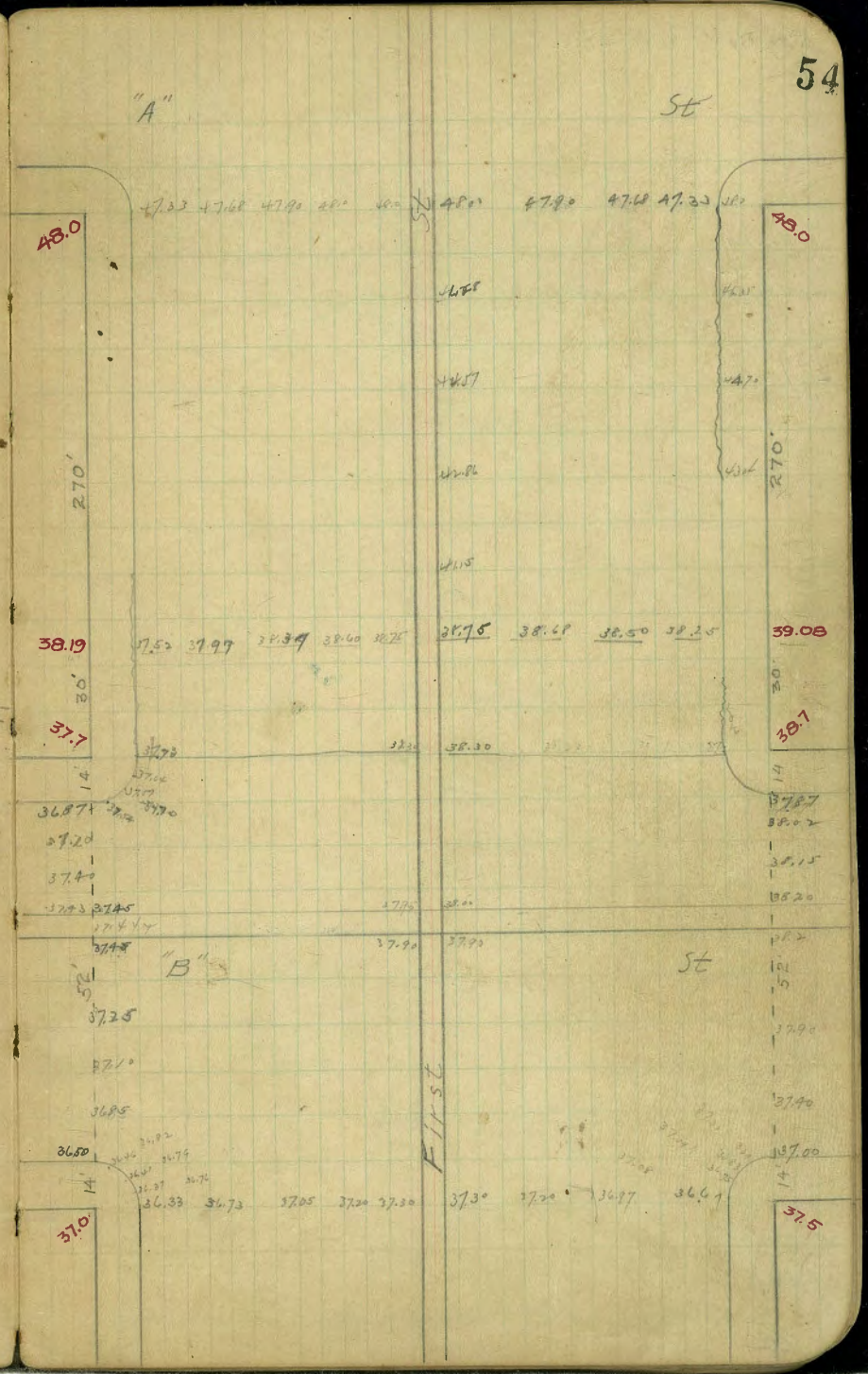
48.00 / 4.40 | 48.50 / 3.90 | 48.75 / 3.65 | 48.85 / 3.55 | 48.80 / 3.60

48.67 / 3.73 | 48.80 / 3.60 | 48.85 / 3.55 | 48.72 / 3.68 | 49.23 / 3.17 | 49.53 / 2.87 | 49.70 / 2.70 | 47.68 / 4.72

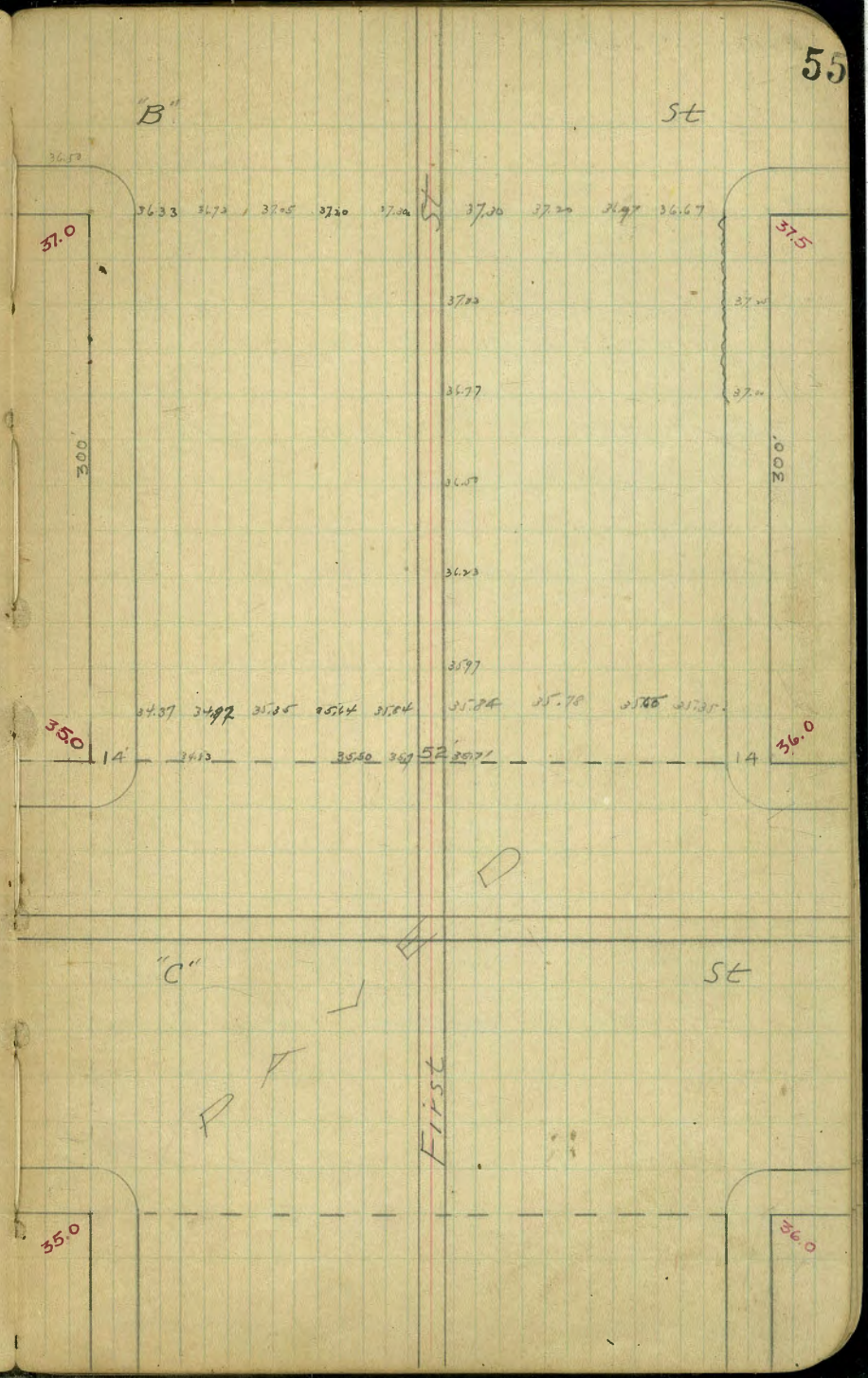
48.00 / 4.40 | 47.50 / 4.90 | 47.53 / 4.87 | 47.55 / 4.85 | 47.44 / 4.96 | 47.95 / 4.45



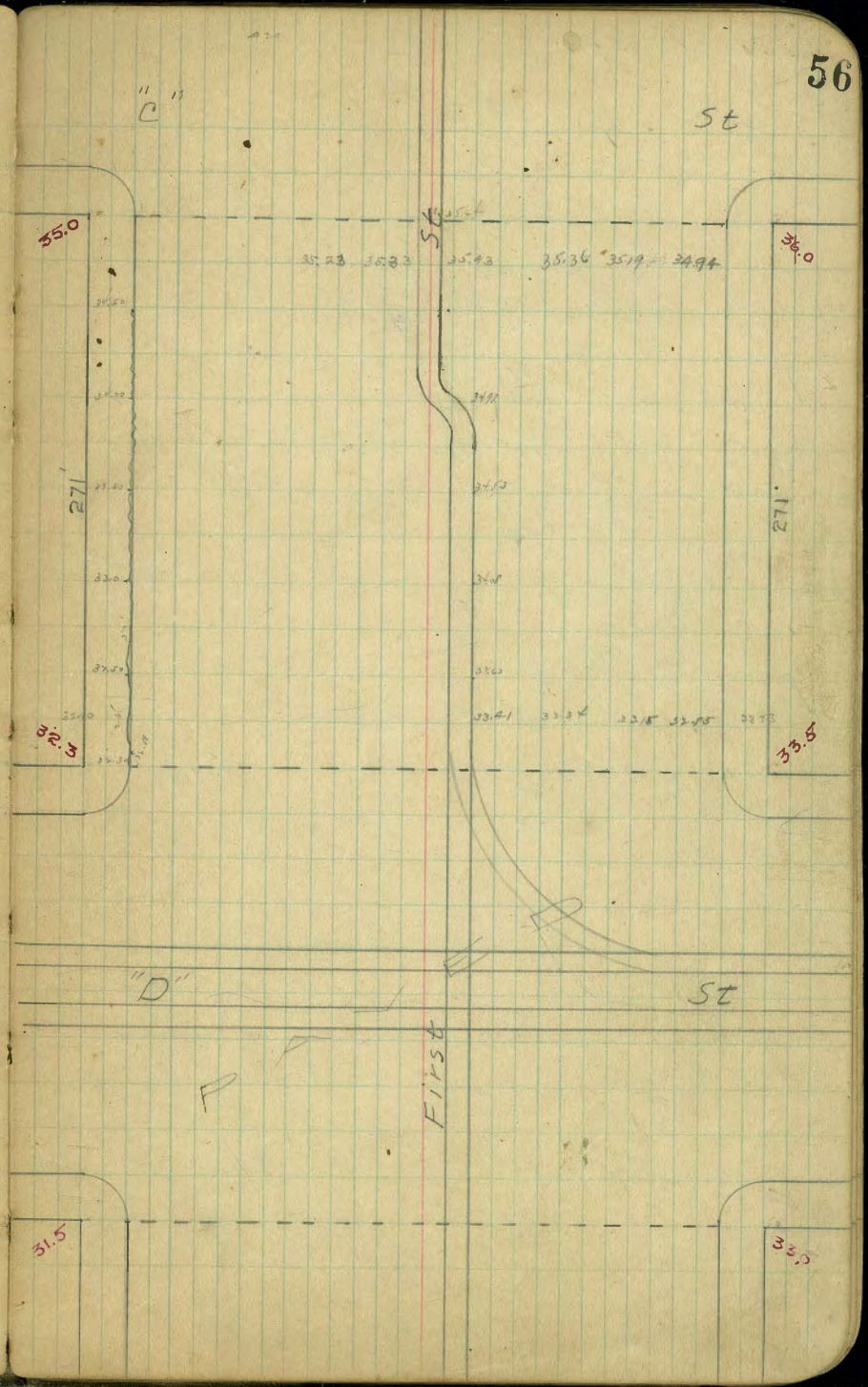
36.93 S.W. "B" plg. rd.



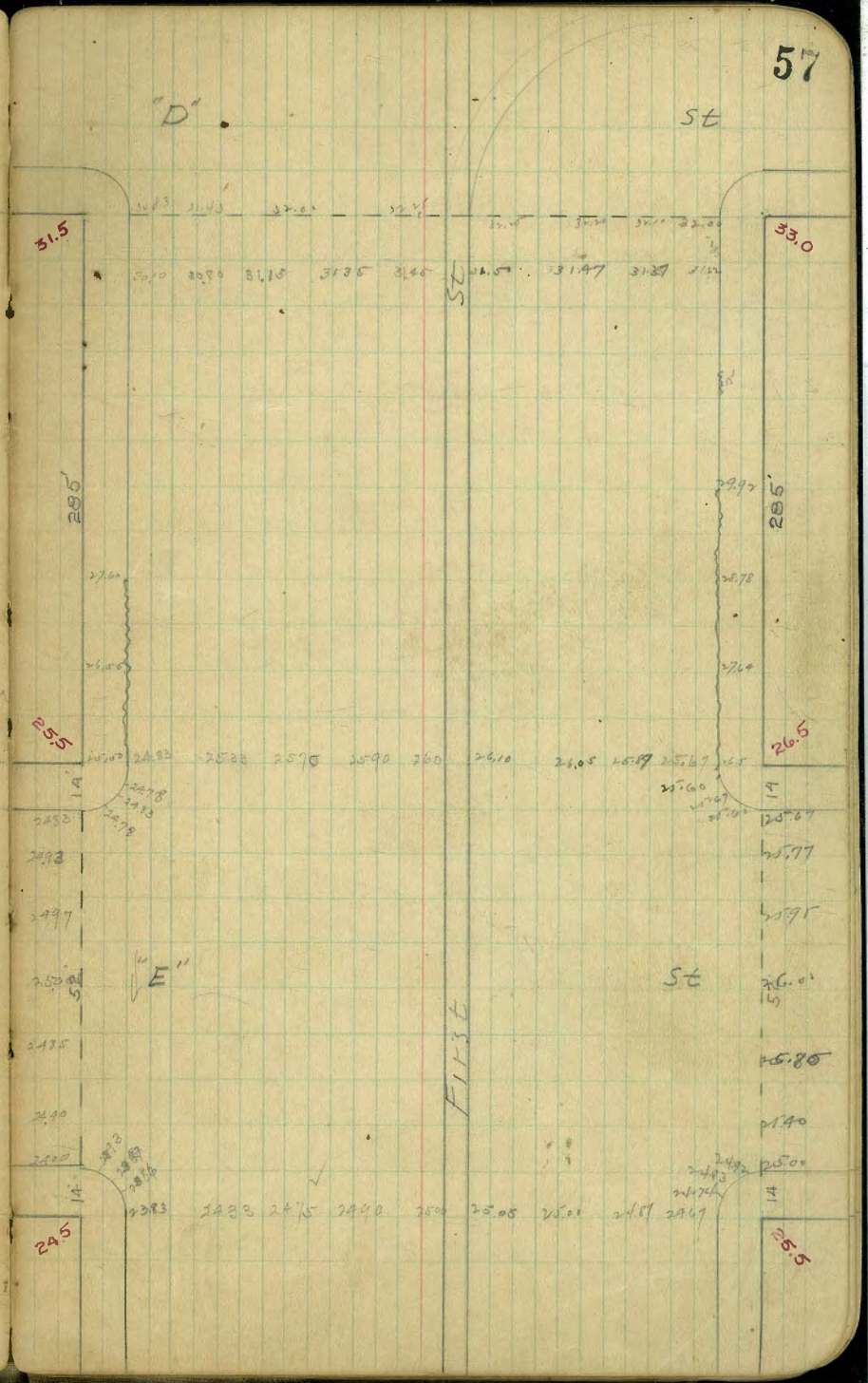
34.94 N.W.C. plgrt.



31.55 S.W. D. plg. rt.



24.543 W.E. pig. Ht.



16.92 S.W.F. plg. rt

16.92
4.54
21.46 Ht

16.33
5.13

24.8 13/2

16.92
7.89
24.81 Ht

18.00 / 6.81 — 17.90 / 6.91 — 18.00 — 17.68 / 7.13

24.87 / 4.55 — 25.05 / 4.37 — 25.02 / 4.42 — 24.87 / 4.55

24.54
4.88
29.42 Ht

18.00 / 4.17 — 17.68 / 4.49

16.92
5.25
22.17 Ht

17.00 / 4.20 — 16.68 / 4.52 — 16.33 / 4.87 — 18.00 / 3.20 — 17.68 / 3.52 — 17.33 / 3.87

16.92
4.28
21.20 Ht

17.26 / 3.94 — 17.33 / 3.87 — 17.43 / 3.77 — 17.50 / 3.70 — 17.30 / 3.90 — 16.90 / 4.30 — 16.50 / 4.70 — 16.46 / 4.74 — 16.43 / 4.77

16.40 / 4.80 — 4.45 / 16.75 — 3.91 / 17.29

21.53 Ht

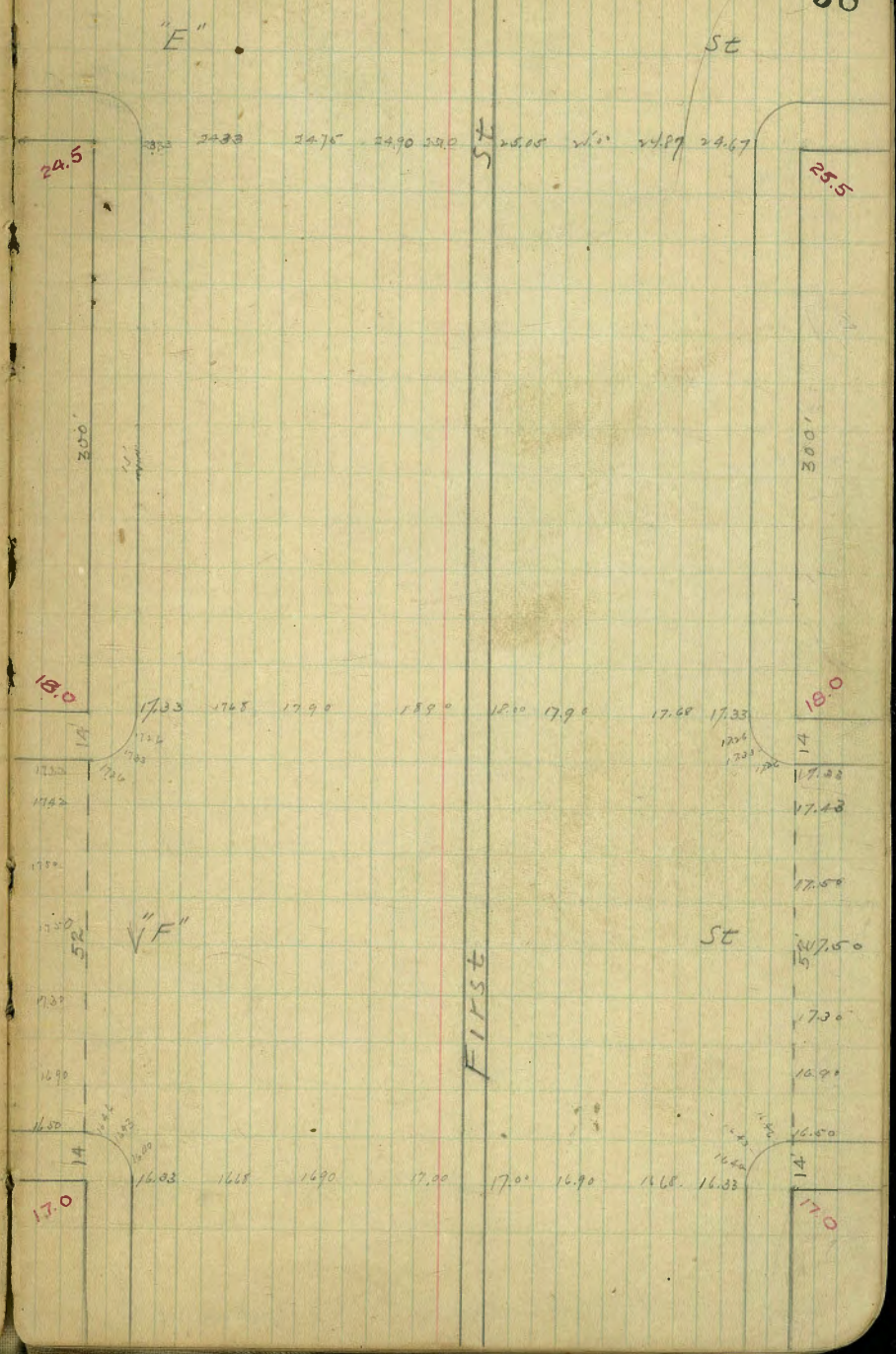
1733 / 420 / 427 — 1768 / 385 — 1790 / 363 — 1800 / 353 — 1743 / 410 — 1730 / 403 — 1730 / 423 — 1690 / 463 — 1646 / 507 / 503 / 510 / 513

24.54
5.46
30.00 Ht

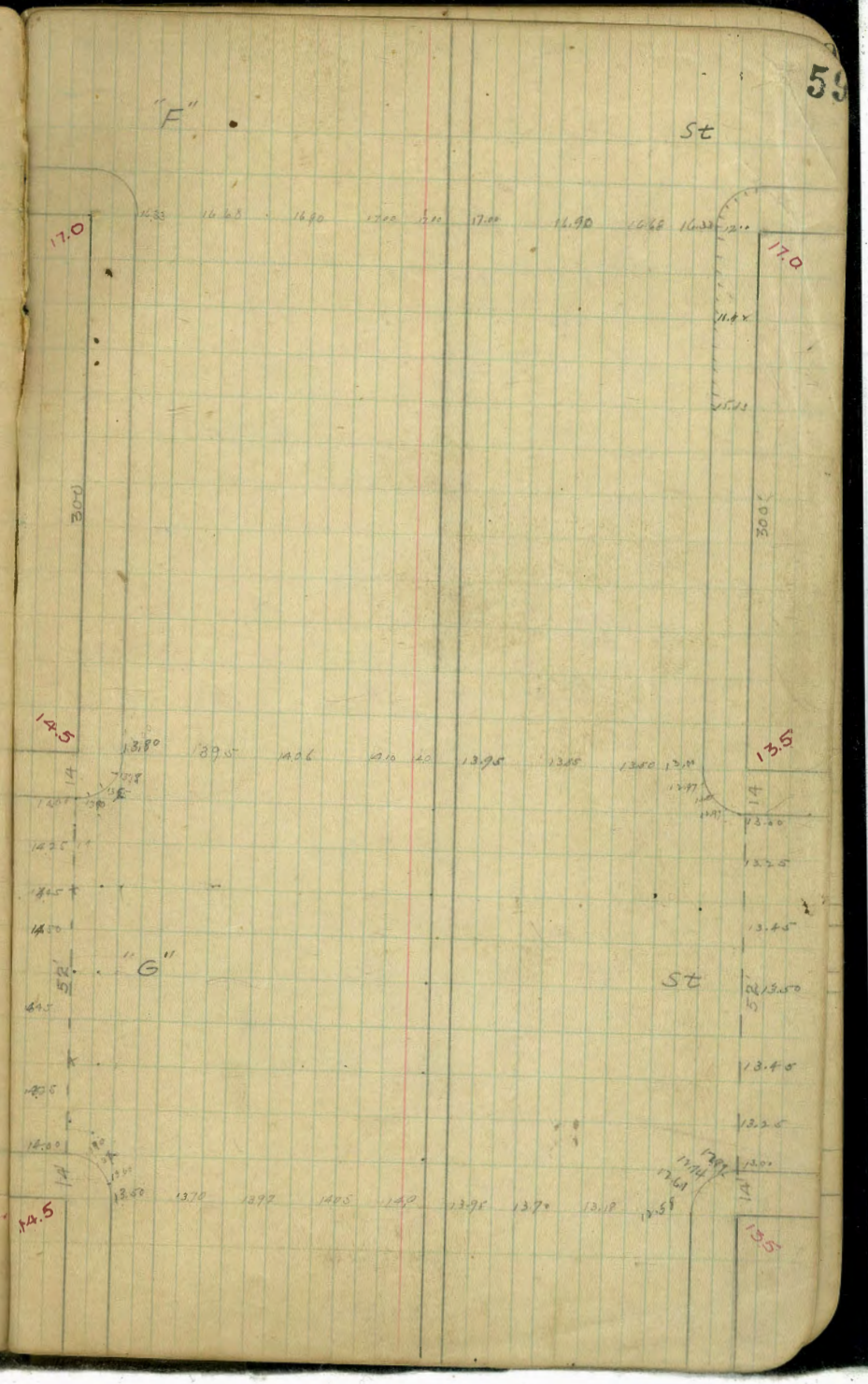
2383 / 617

16.92
4.57
21.49

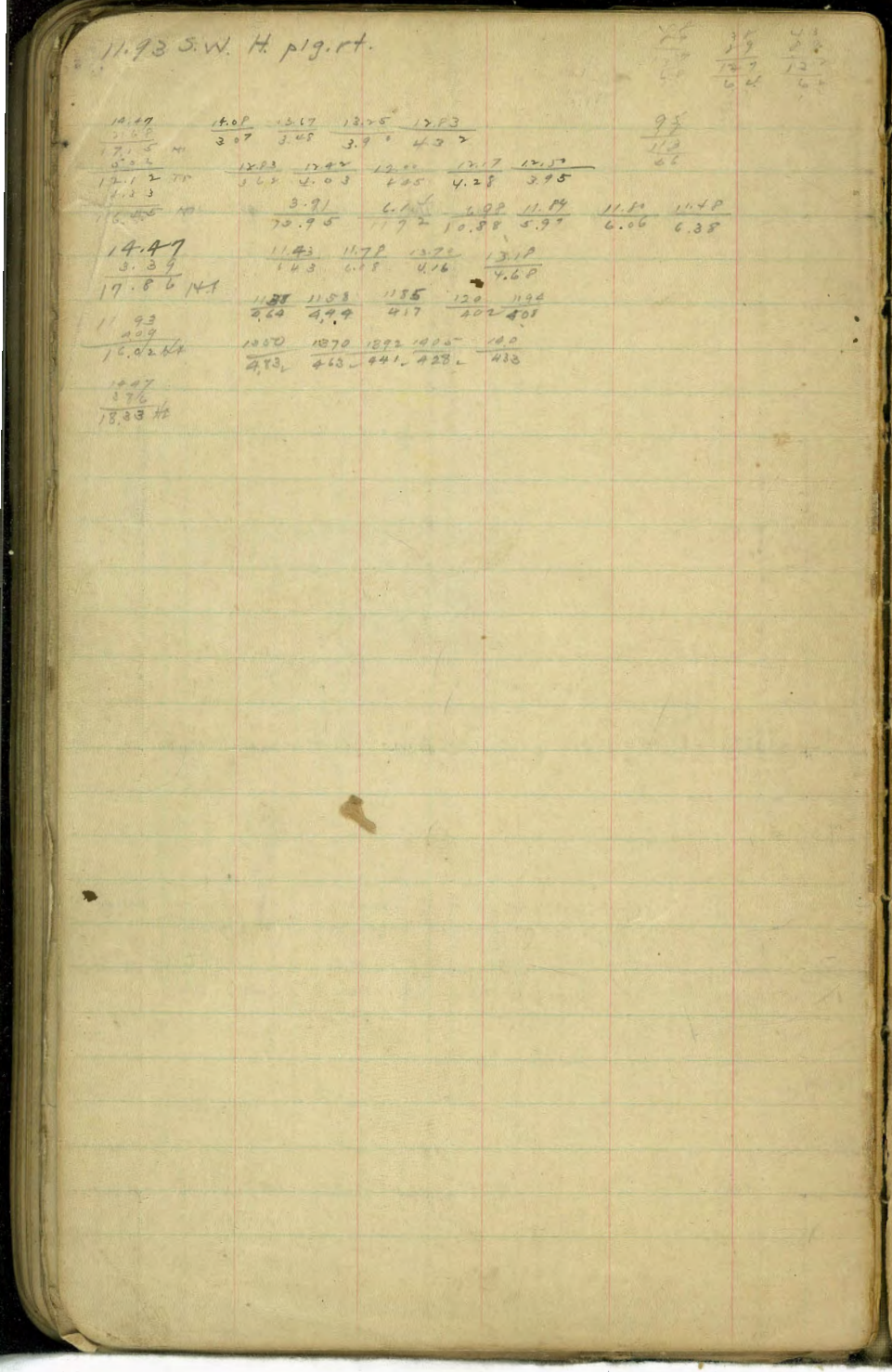
1650 / 500 — 1646 / 503 — 1643 / 506 — 1640 / 509 — 1633 / 516

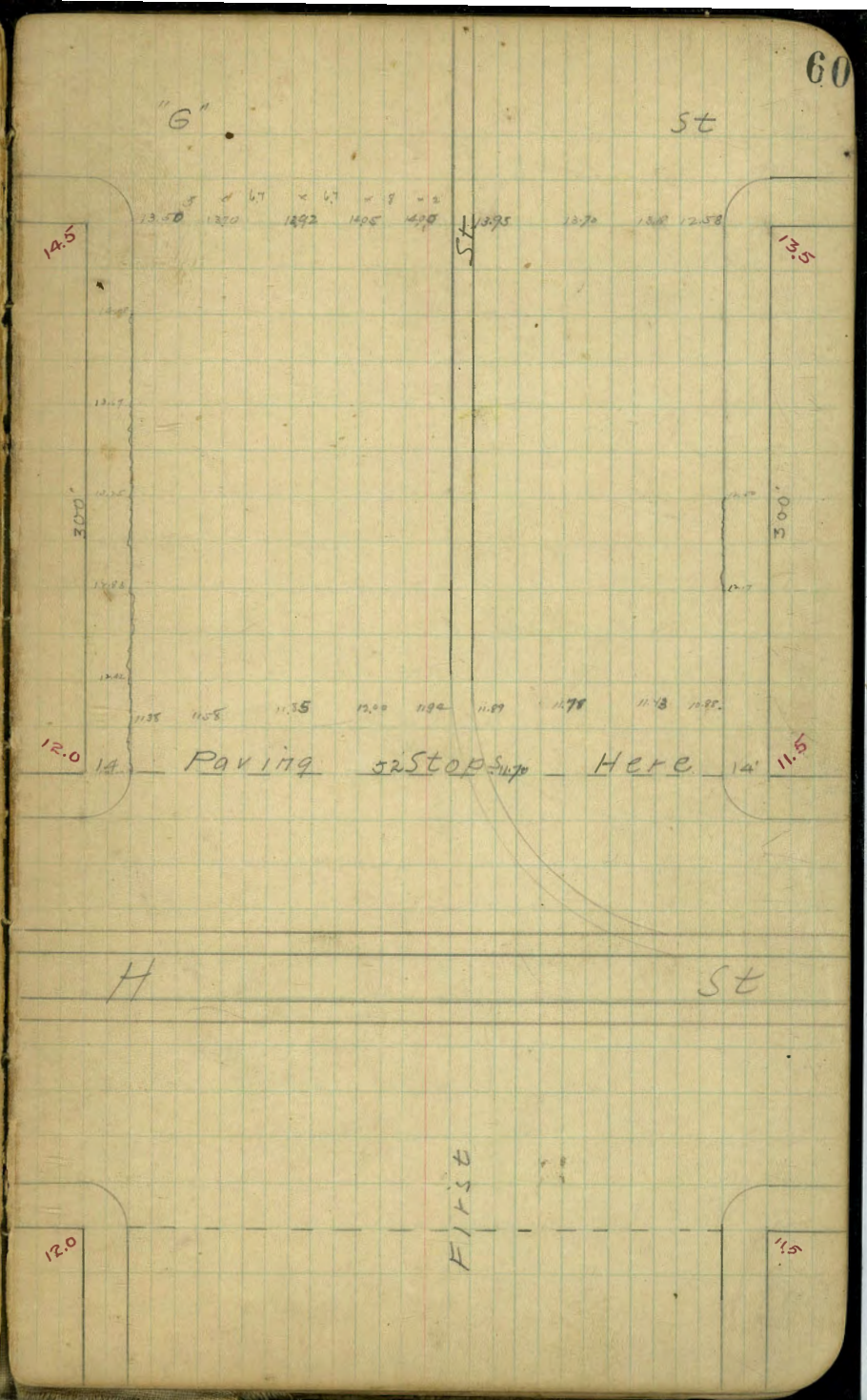


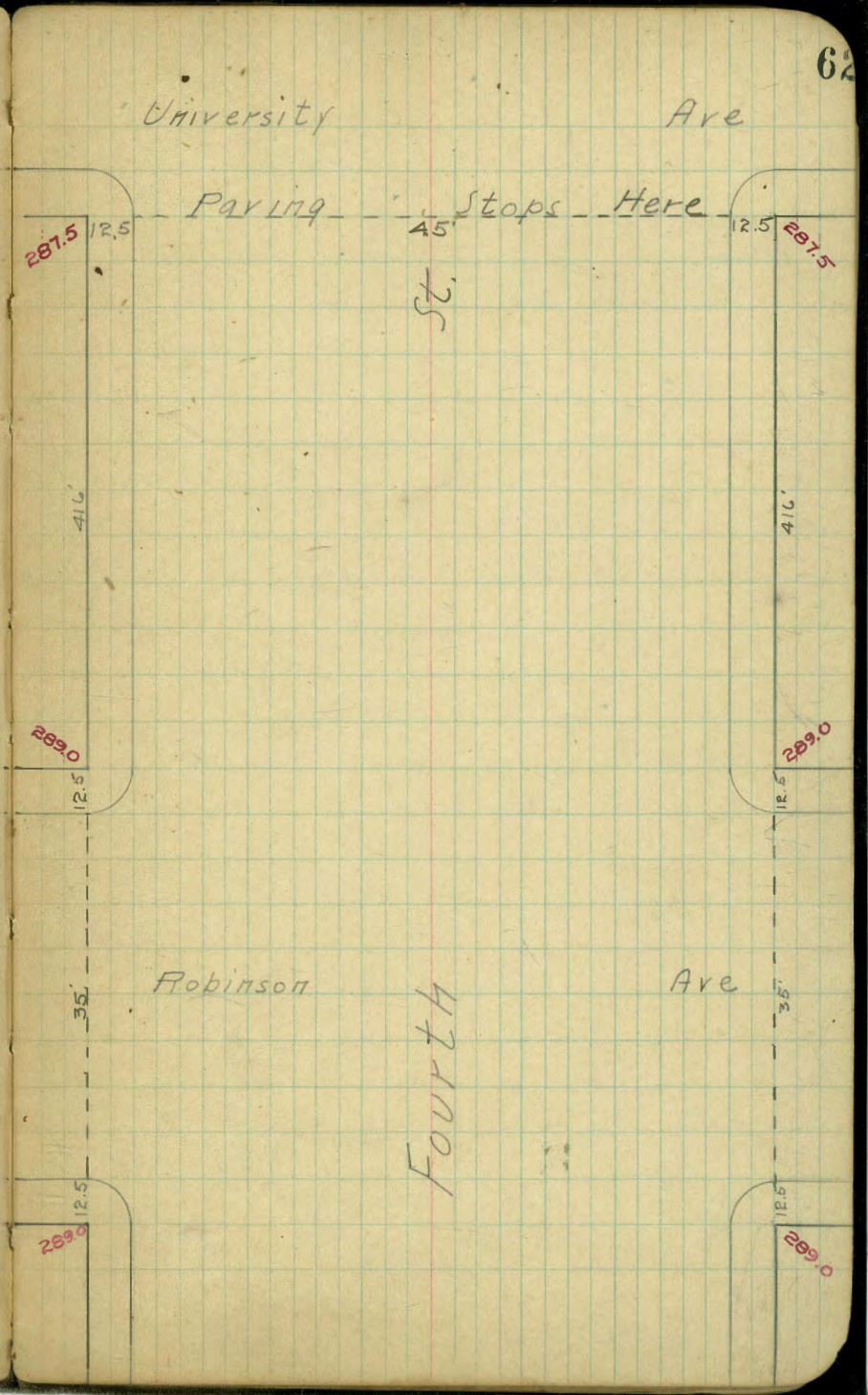
14.47 SW. Gpig. rt.

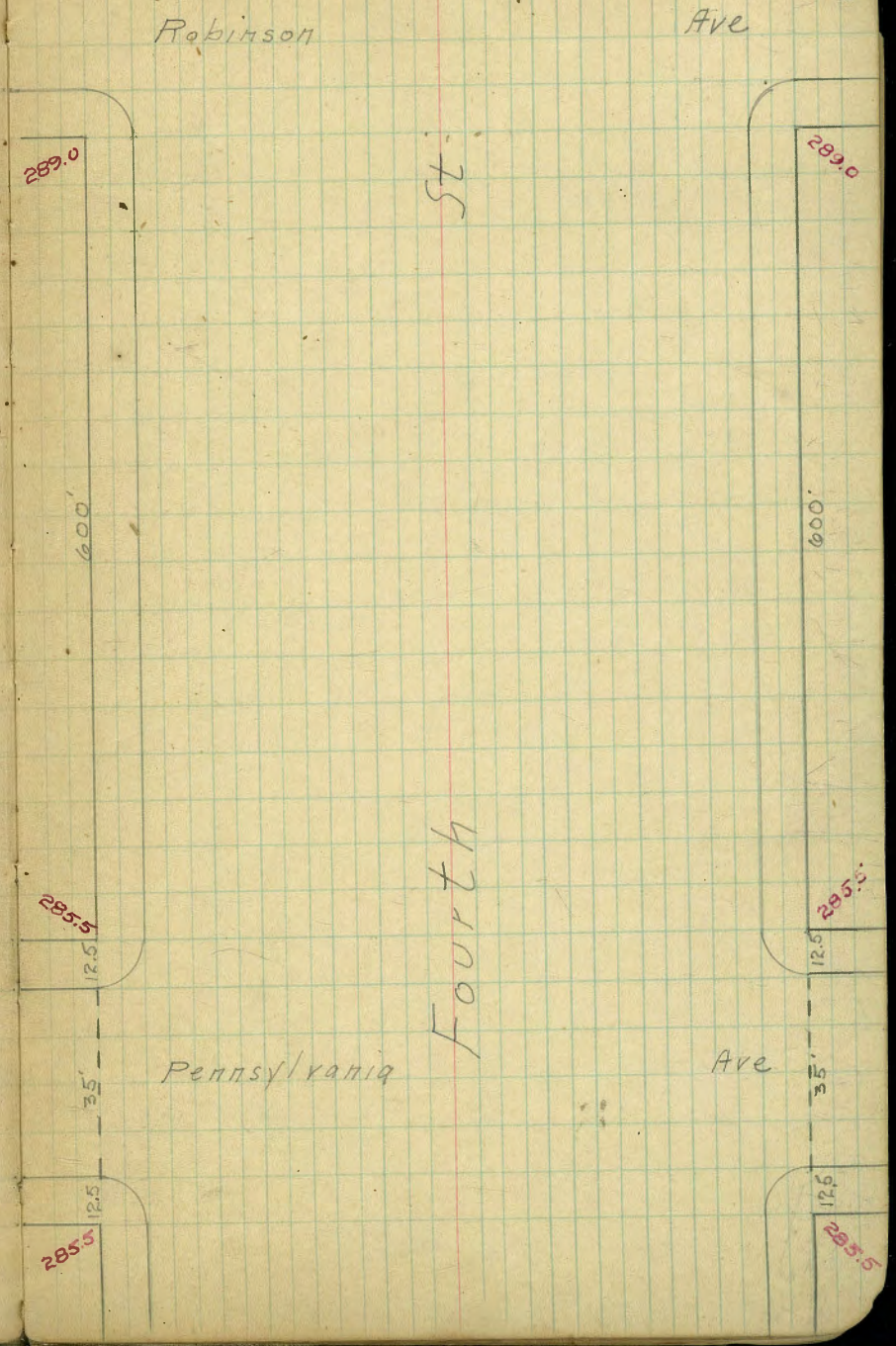


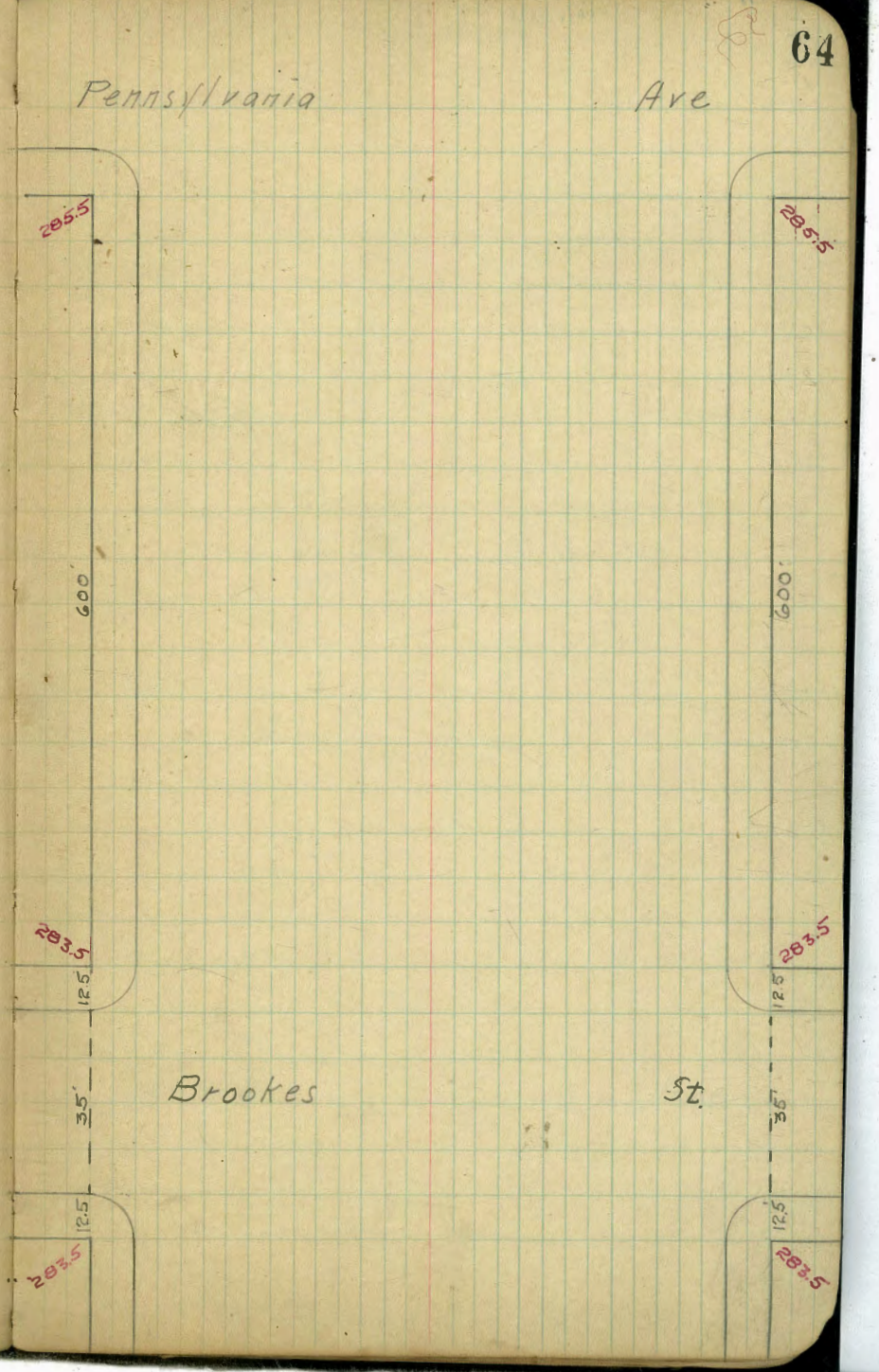
11.93 S.W. H plg.rt.

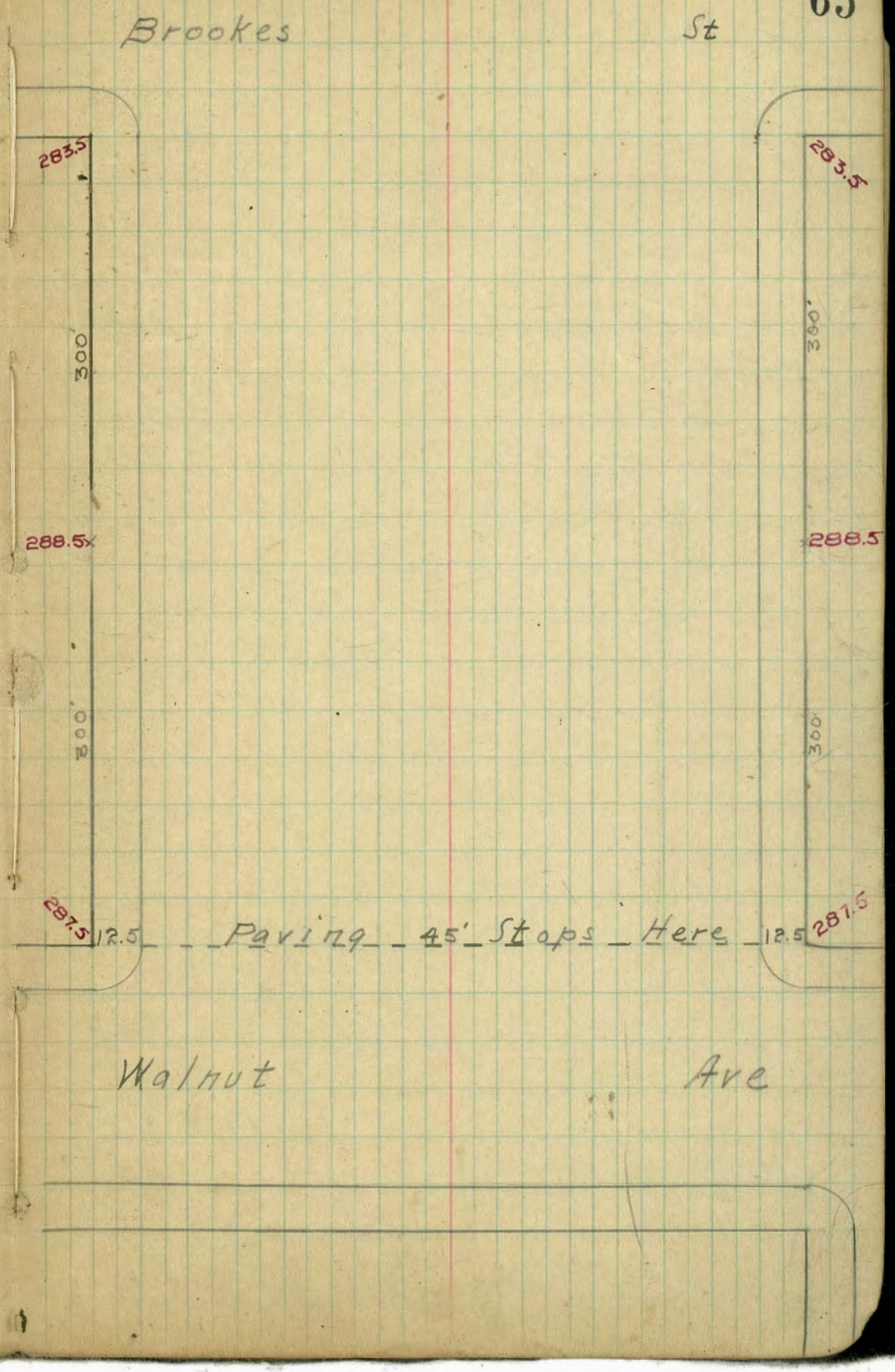





University Ave
Paving Stops Here
45'
St.
287.5
12.5
12.5
287.5
41.6'
41.6'
289.0
289.0
12.5
12.5
35'
35'
Robinson Ave
Fourth
12.5
12.5
289.0
289.0

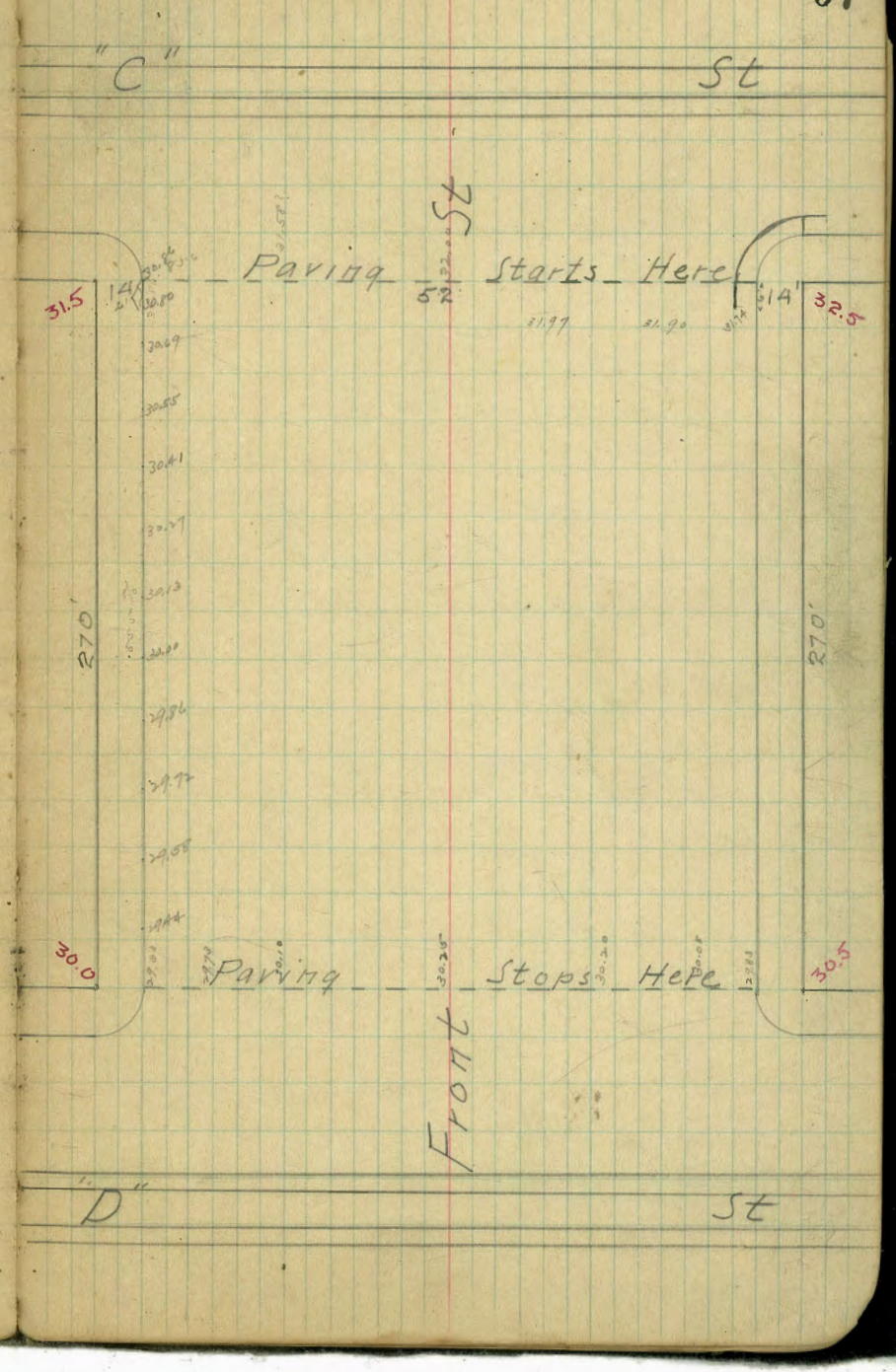

Robinson
Ave
289.0
600'
285.5
12.5
35'
12.5
285.5
4½ St.
Fourth
Pennsylvania
Ave
289.0
600'
285.5
12.5
35'
12.5
285.5


Pennsylvania Ave
283.5
600'
283.5
12.5
35'
12.5
283.5
Brookes St.
283.5
600'
283.5
12.5
35'
12.5
283.5


Brookes St
283.5
300'
288.5
300'
287.5
12.5
Paving 45' Stops Here
12.5
283.5
300'
288.5
300'
287.5
Walnut Ave

C & Front S.W. Tip Hydt 34.38 - Ctr Front 31.46 - N.W. Cor plgrt

D " S.W plgrt 29.34



C Union N.W. plg. ht. 2899
D " " S.W " " 26.204

26.30
5.27
31.57

26.67
4.90

28.00
5.45
33.45 Ht

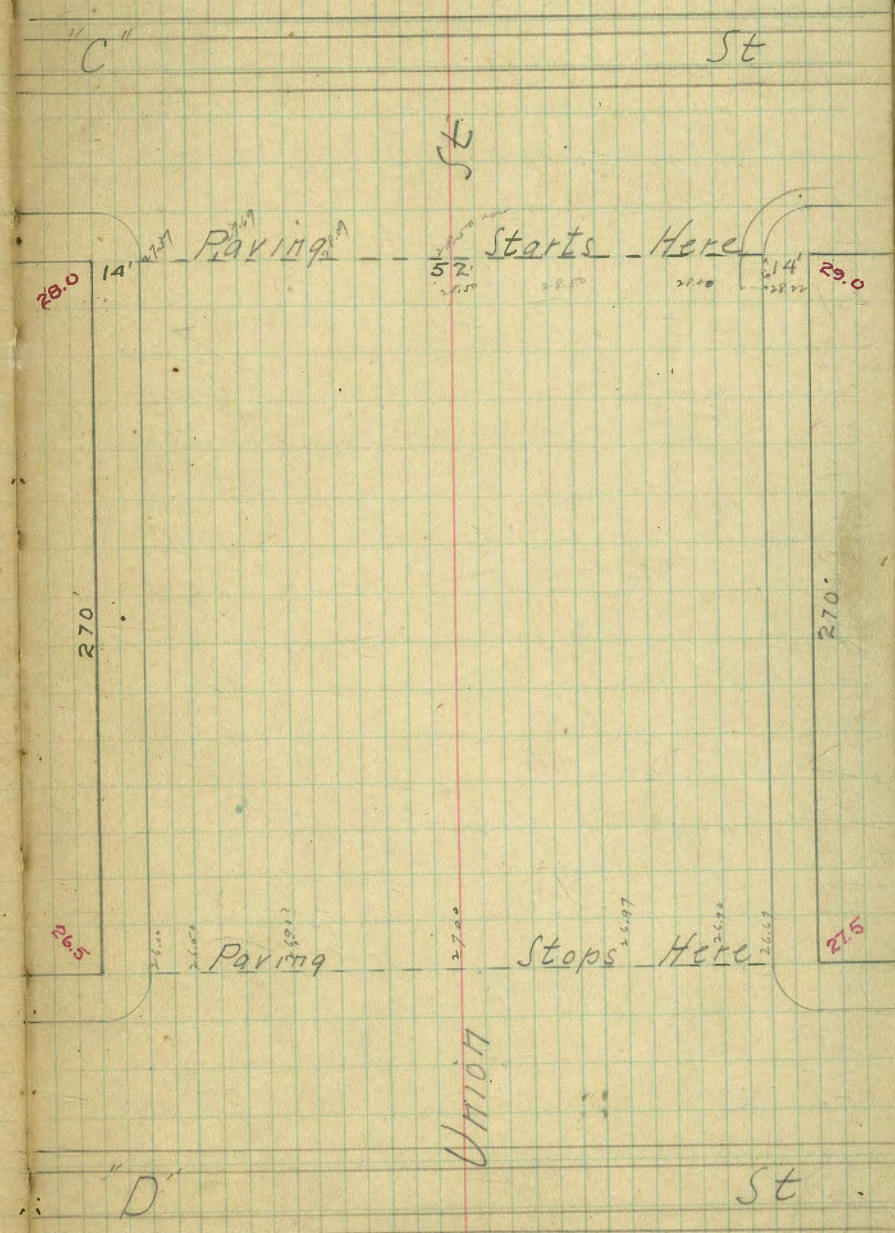
6.08
27.37

5.23
28.22

26.30
5.23
31.53 Ht

26.00 / 5.53
26.50 / 5.03
26.90 / 4.63
27.00 / 4.53
26.97 / 4.56
26.90 / 4.63

3.84 / 27.69
3.44 / 28.09
3.06 / 28.47
28.50 / 3.03
28.40 / 3.13



43.44 N.E 6 x E plgrt
4.65
48.09 H.I.

6.40
41.69

42.40
41.69
.71

4.25
43.84

44.50
43.84
.66

43.45
4.64

43.40
42.59
.81

43.4
43.4
42.5

43.44
4.50
47.94 H.I.

43.56
4.53

43.30
4.79

43.03
5.06

42.76
5.33

42.49
5.60

42.22
5.87

41.96
6.13

45.50
43.83
44.67

5.50
42.59

42.83
5.26

42.83
5.11

43.10
4.84

43.36
4.58

43.62
4.32

43.88
4.06

44.15
3.79

44.41
3.53

43.44
3.40
46.84 H.I.

43.08
3.84

43.16
3.68

42.91
3.93

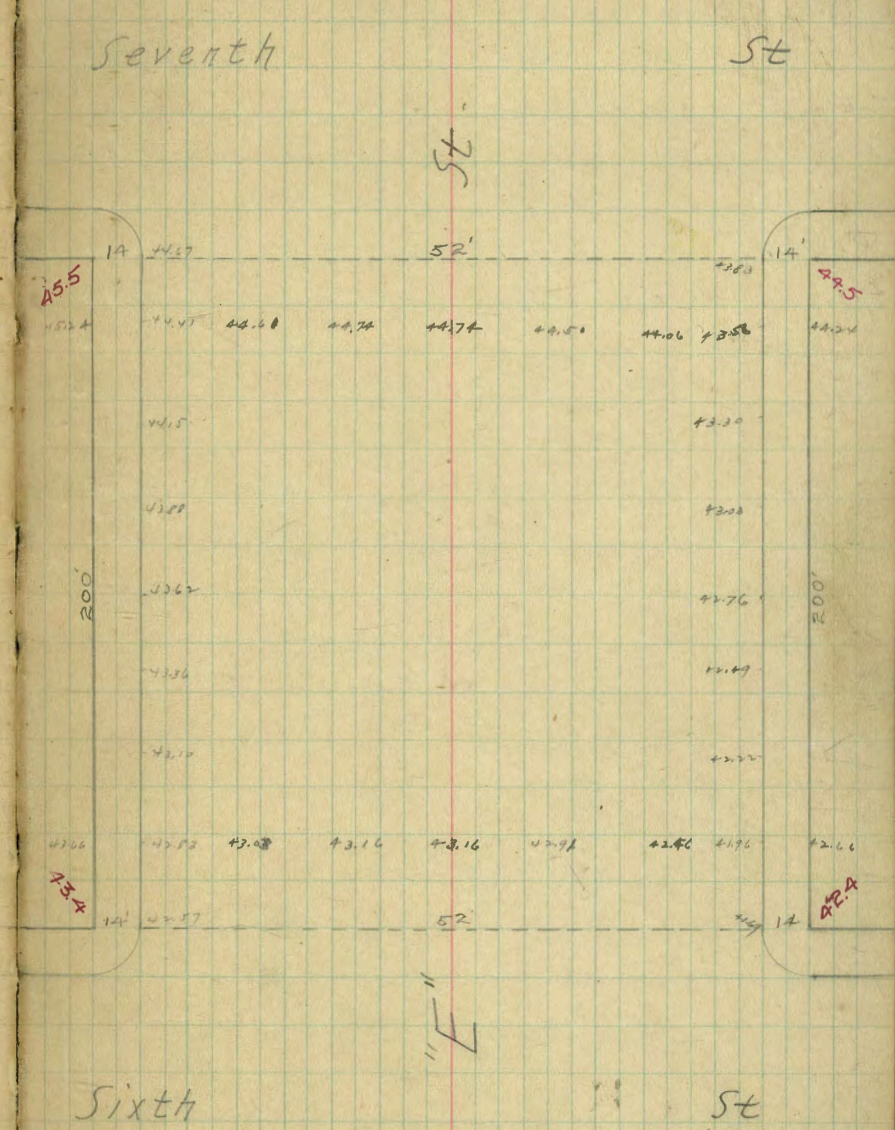
42.46
4.38

44.61
2.23

44.74
2.10

44.50
2.34

44.06
2.78



	3.84	43.29		39.45 B.M. S.W. 3rd D	
				Ct.	
S. line 'D' St		Rail 2.83	40.46	2.34	40.95
					40.86
			Cul	{2.43	39.63
				3.66	
+5					
+25		3.44	39.85	2.73	40.56
+50		4.04	39.25	3.09	40.20
00 +80 · N.L Witherby		4.73	38.56	3.46	39.83
+12				4.55	38.74
Ctr +28		5.33	37.96	5.25	38.04
+40.5				5.78	37.51
+49.5				5.70	37.59
				4.81 · Ct	38.48
+56 · S.L Witherby		5.99	37.30	4.94	38.35

ENGINEERING DEPARTMENT,
SAN DIEGO.
CALIFORNIA.