550
F. B.

## TRAVERSE TABLE FOR TRANSIT BOOK.

From 1° to 90° for a distance of 100.

| Degrees. | DEGREES. | | ¼ DEGREE. | | ½ DEGREE. | | ¾ DEGREE. | | Degrees. |
|---|---|---|---|---|---|---|---|---|---|
| | Lat. | Dep. | Lat. | Dep. | Lat. | Dep. | Lat. | Dep. | |
| 0 | | | 100.00 | 0.44 | 100.00 | 0.87 | 99.99 | 1.31 | 89 |
| 1 | 99.98 | 1.75 | 99.98 | 2.18 | 99.97 | 2.62 | 99.95 | 3.05 | 88 |
| 2 | 99.94 | 3.49 | 99.93 | 3.93 | 99.91 | 4.36 | 99.88 | 4.80 | 87 |
| 3 | 99.86 | 5.23 | 99.85 | 5.67 | 99.81 | 6.10 | 99.79 | 6.54 | 86 |
| 4 | 99.76 | 6.98 | 99.73 | 7.41 | 99.69 | 7.85 | 99.66 | 8.28 | 85 |
| 5 | 99.62 | 8.72 | 99.58 | 9.15 | 99.54 | 9.58 | 99.50 | 10.02 | 84 |
| 6 | 99.45 | 10.45 | 99.41 | 10.89 | 99.36 | 11.32 | 99.31 | 11.75 | 83 |
| 7 | 99.25 | 12.19 | 99.20 | 12.62 | 99.14 | 13.05 | 99.09 | 13.49 | 82 |
| 8 | 99.03 | 13.92 | 98.97 | 14.35 | 98.90 | 14.78 | 98.84 | 15.21 | 81 |
| 9 | 98.77 | 15.64 | 98.70 | 16.07 | 98.63 | 16.50 | 98.56 | 16.93 | 80 |
| 10 | 98.48 | 17.36 | 98.40 | 17.79 | 98.33 | 18.22 | 98.25 | 18.65 | 79 |
| 11 | 98.16 | 19.08 | 98.08 | 19.51 | 97.99 | 19.94 | 97.90 | 20.36 | 78 |
| 12 | 97.81 | 20.79 | 97.72 | 21.22 | 97.63 | 21.64 | 97.53 | 22.07 | 77 |
| 13 | 97.44 | 22.50 | 97.34 | 22.92 | 97.24 | 23.34 | 97.13 | 23.77 | 76 |
| 14 | 97.03 | 24.19 | 96.92 | 24.62 | 96.81 | 25.04 | 96.70 | 25.46 | 75 |
| 15 | 96.59 | 25.88 | 96.48 | 26.30 | 96.36 | 26.72 | 96.25 | 27.14 | 74 |
| 16 | 96.13 | 27.56 | 96.00 | 27.98 | 95.88 | 28.40 | 95.76 | 28.82 | 73 |
| 17 | 95.63 | 29.24 | 95.50 | 29.65 | 95.37 | 30.07 | 95.24 | 30.49 | 72 |
| 18 | 95.11 | 30.90 | 94.97 | 31.32 | 94.83 | 31.73 | 94.69 | 32.14 | 71 |
| 19 | 94.55 | 32.56 | 94.41 | 32.97 | 94.26 | 33.38 | 94.12 | 33.79 | 70 |
| 20 | 93.97 | 34.20 | 93.82 | 34.61 | 93.67 | 35.02 | 93.51 | 35.43 | 69 |
| 21 | 93.36 | 35.84 | 93.20 | 36.24 | 93.04 | 36.65 | 92.88 | 37.06 | 68 |
| 22 | 92.72 | 37.46 | 92.55 | 37.86 | 92.39 | 38.27 | 92.22 | 38.67 | 67 |
| 23 | 92.05 | 39.07 | 91.88 | 39.47 | 91.71 | 39.87 | 91.53 | 40.27 | 66 |
| 24 | 91.35 | 40.67 | 91.18 | 41.07 | 91.00 | 41.47 | 90.81 | 41.87 | 65 |
| 25 | 90.63 | 42.26 | 90.45 | 42.66 | 90.26 | 43.05 | 90.07 | 43.44 | 64 |
| 26 | 89.88 | 43.84 | 89.69 | 44.23 | 89.49 | 44.62 | 89.30 | 45.01 | 63 |
| 27 | 89.10 | 45.40 | 88.90 | 45.79 | 88.70 | 46.17 | 88.50 | 46.56 | 62 |
| 28 | 88.29 | 46.95 | 88.09 | 47.33 | 87.88 | 47.72 | 87.67 | 48.10 | 61 |
| 29 | 87.46 | 48.48 | 87.25 | 48.86 | 87.04 | 49.24 | 86.82 | 49.62 | 60 |
| 30 | 86.60 | 50.00 | 86.38 | 50.38 | 86.16 | 50.75 | 85.94 | 51.13 | 59 |
| 31 | 85.72 | 51.50 | 85.49 | 51.88 | 85.26 | 52.25 | 85.04 | 52.62 | 58 |
| 32 | 84.80 | 52.99 | 84.57 | 53.36 | 84.34 | 53.73 | 84.10 | 54.10 | 57 |
| 33 | 83.87 | 54.46 | 83.63 | 54.83 | 83.39 | 55.19 | 83.15 | 55.56 | 56 |
| 34 | 82.90 | 55.92 | 82.66 | 56.28 | 82.41 | 56.64 | 82.16 | 57.00 | 55 |
| 35 | 81.92 | 57.36 | 81.66 | 57.71 | 81.41 | 58.07 | 81.16 | 58.42 | 54 |
| 36 | 80.90 | 58.78 | 80.64 | 59.13 | 80.39 | 59.48 | 80.13 | 59.83 | 53 |
| 37 | 79.86 | 60.18 | 79.60 | 60.53 | 79.34 | 60.88 | 79.07 | 61.22 | 52 |
| 38 | 78.80 | 61.57 | 78.53 | 61.91 | 78.26 | 62.25 | 77.99 | 62.59 | 51 |
| 39 | 77.71 | 62.93 | 77.44 | 63.27 | 77.16 | 63.61 | 76.88 | 63.94 | 50 |
| 40 | 76.60 | 64.28 | 76.32 | 64.61 | 76.04 | 64.94 | 75.76 | 65.28 | 49 |
| 41 | 75.47 | 65.61 | 75.18 | 65.93 | 74.90 | 66.26 | 74.61 | 66.59 | 48 |
| 42 | 74.31 | 66.91 | 74.02 | 67.24 | 73.73 | 67.56 | 73.43 | 67.88 | 47 |
| 43 | 73.14 | 68.20 | 72.84 | 68.52 | 72.54 | 68.84 | 72.24 | 69.15 | 46 |
| 44 | 71.93 | 69.47 | 71.63 | 69.78 | 71.33 | 70.09 | 71.02 | 70.40 | 45 |
| 45 | 70.71 | 70.71 | | | | | | | |
| Degrees. | Dep. | Lat. | Dep. | Lat. | Dep. | Lat. | Dep. | Lat. | Degrees. |
| | DEGREES | | ¾ DEGREE. | | ½ DEGREE. | | ¼ DEGREE. | | |

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Crocker Quality

# FIELD BOOK

No._____

MANUFACTURED BY

H. S. CROCKER CO.

SAN FRANCISCO AND SACRAMENTO
CALIFORNIA

FROM
LORINGS BOOK STORE
San Diego, Cal.

13.94 BM
4.19
20.13 HI.
3.00
17.13 T.P.
4.65
21.78 HI.

2.79
17.34

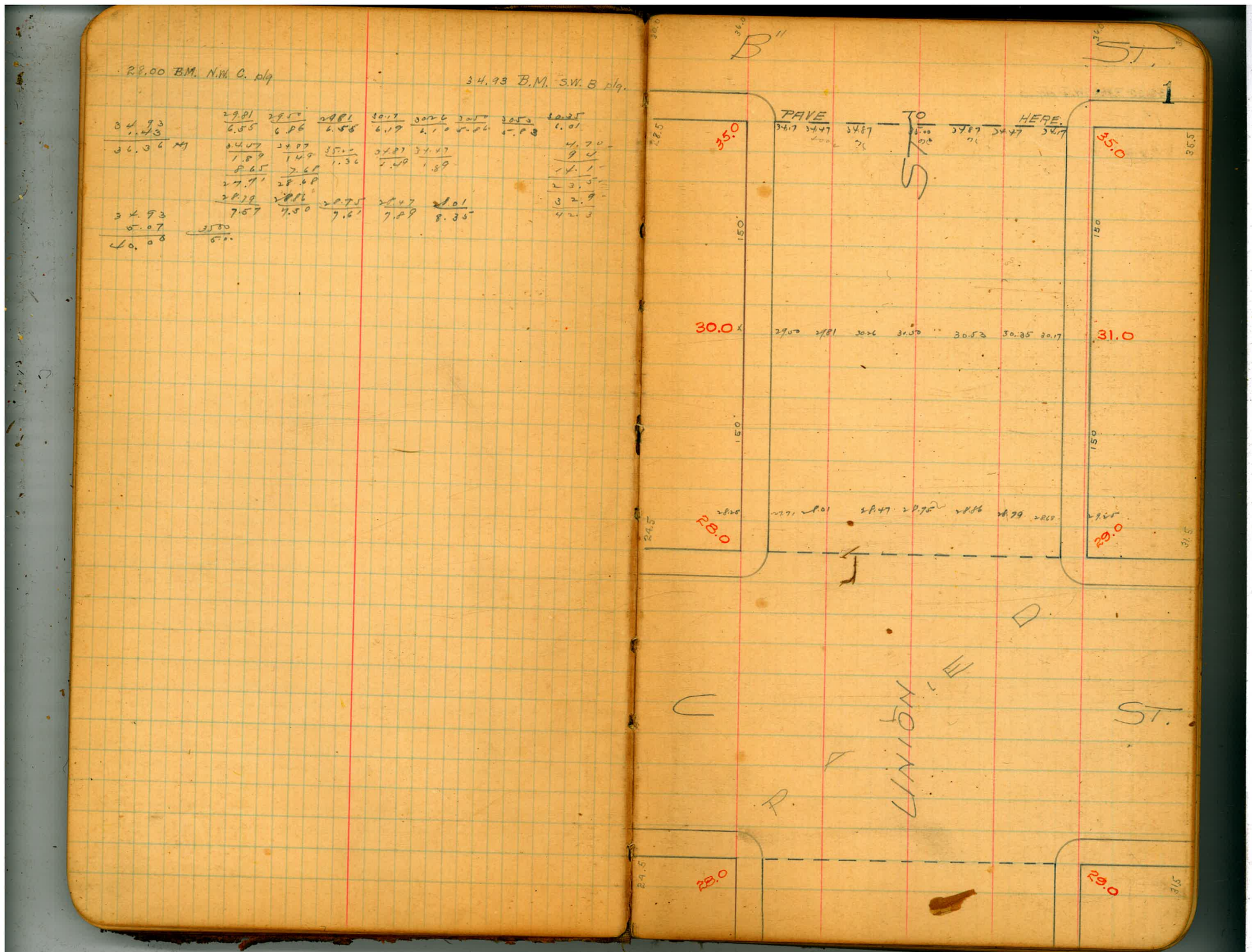
17.35
4.43

OH 20
C 25
E 15

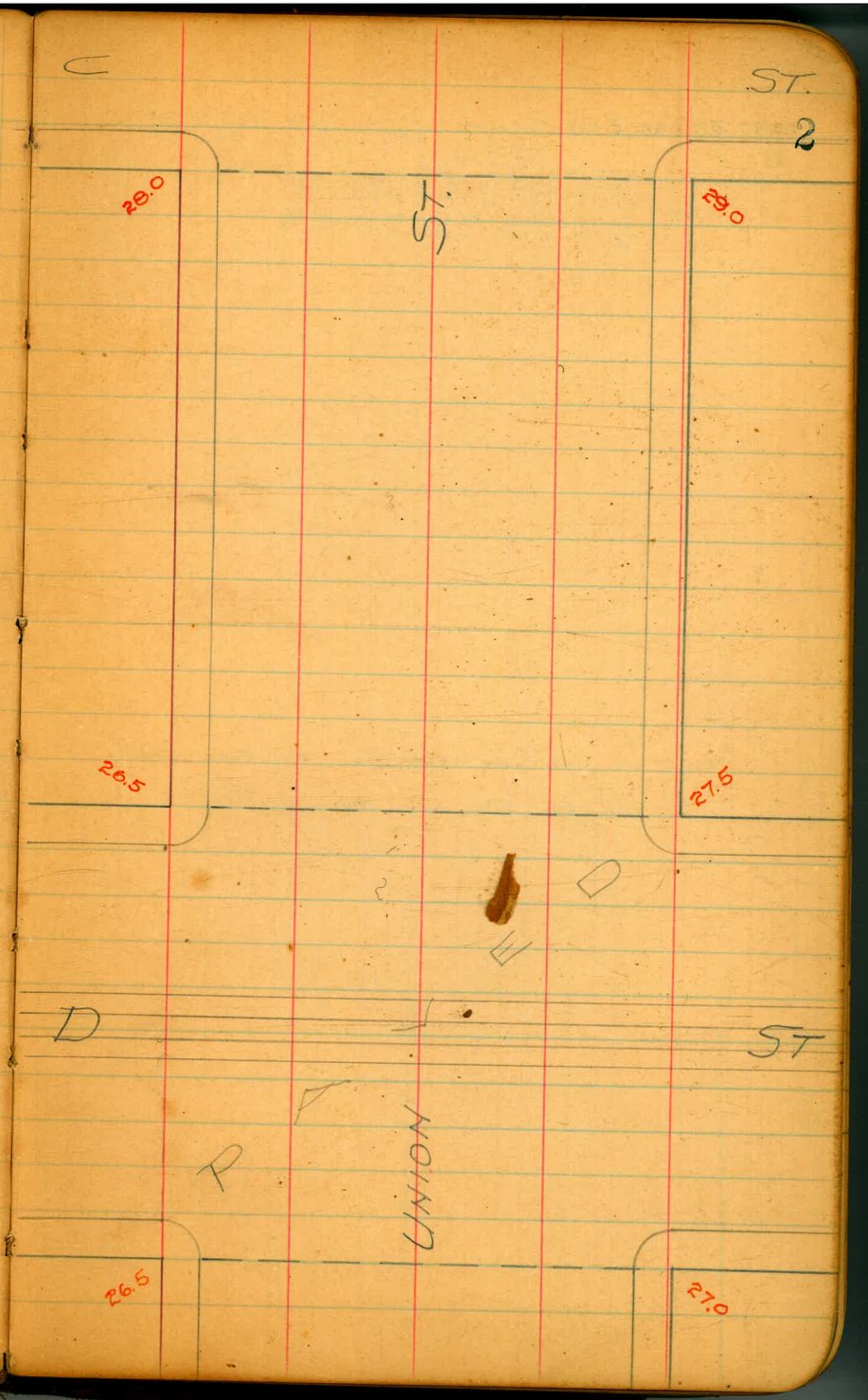
J

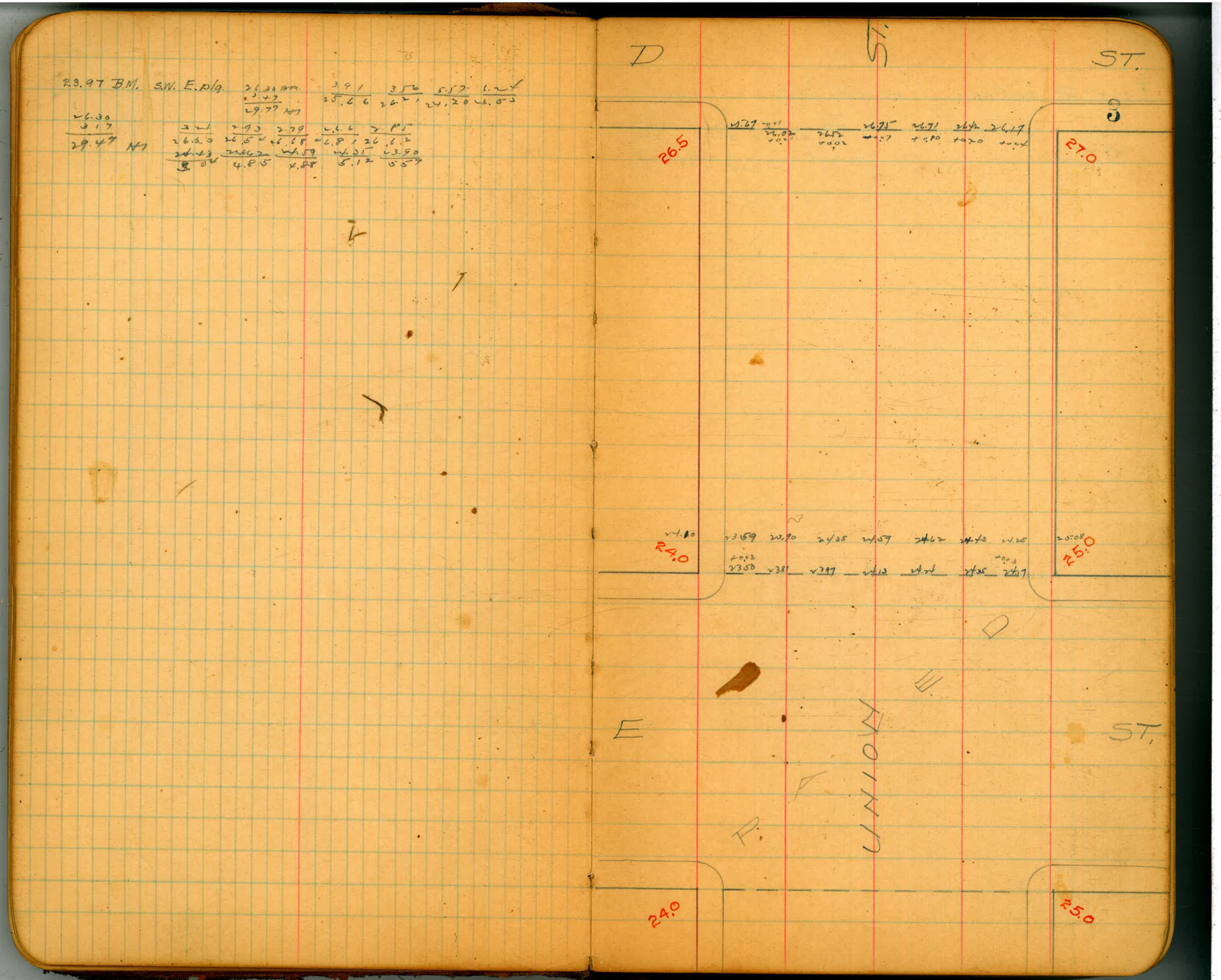
28.00 B.M. N.W. C. plg

34.93 B.M. S.W. 8 plg.



R.6.30 B.M. SW. D p/q



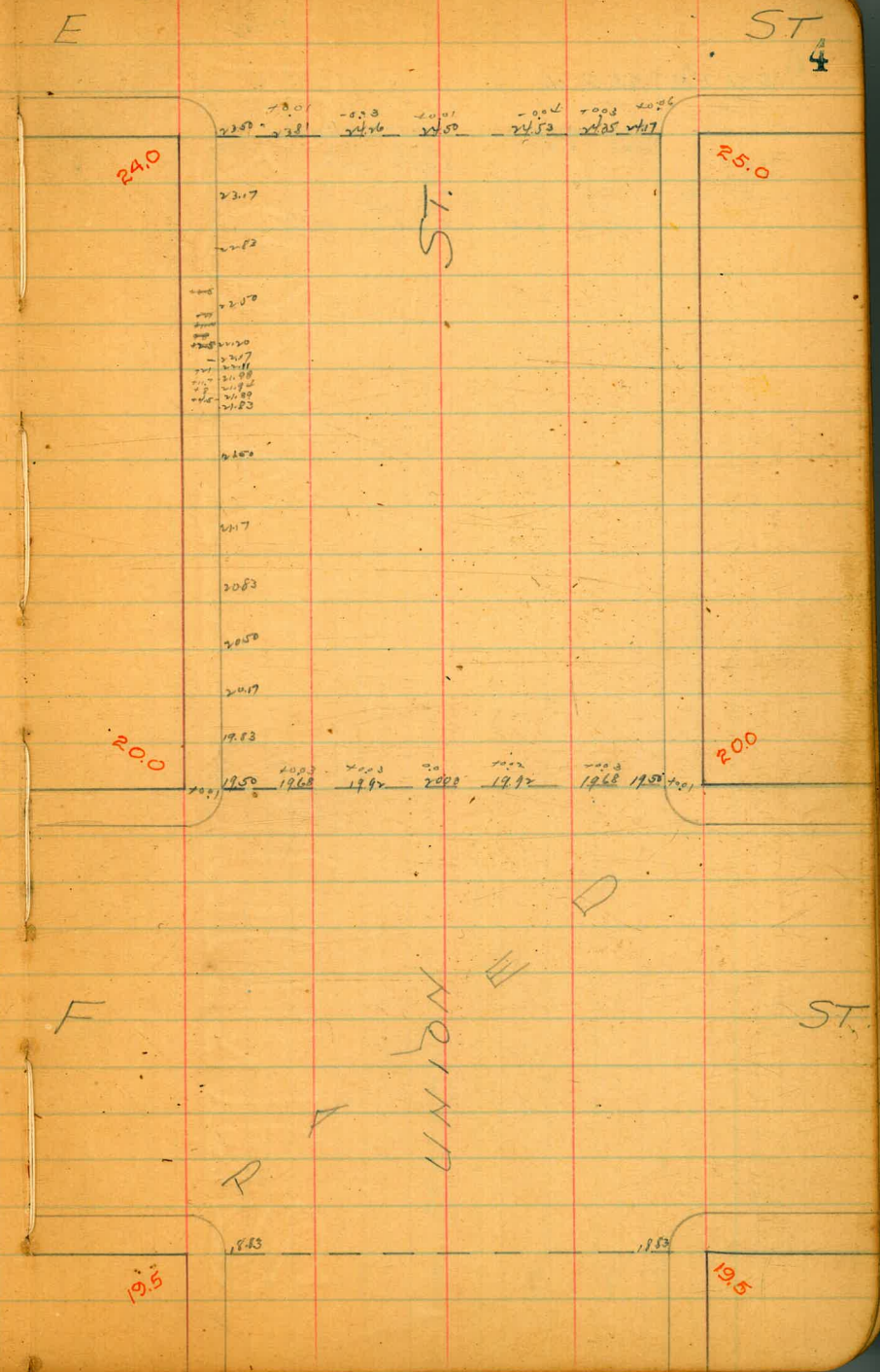

D
ST.
ST.
26.5
27.0
24.0
25.0
UNION
E
ST.
24.0
25.0

19.47 B.M. SW. F. plg. 24.55 HT. 19.50 / 5.05

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| ~~15.51~~ | 19.83 | 19.83 | 20.17 | 20.50 | 20.83 | 21.17 | 21.50 | 21.83 | 22.17 | 22.50 |
| 5.99 | .67 | 5.63 | 5.29 | 4.96 | 4.63 | 4.29 | 3.96 | 3.63 | | 2.96 |
| ~~21.50 HT.~~ | | | | | | | | | | |
| 25.46 HT | 22.83 | 23.17 | 21.89 | 21.94 | 21.98 | 22.11 | 22.17 | 22.20 | 23.50 | |
| | 2.63 | 2.29 | 3.57 | 3.52 | 3.48 | 3.35 | 3.29 | 3.26 | 1.96 | |

| | | | | | |
|---|---|---|---|---|---|
| 23.81 | 1.23 | 0.95 | 0.97 | 1.08 | 1.23 |
| 1.65 | 24.23 | 24.51 | 24.49 | 24.38 | 24.23 |

| | | | | |
|---|---|---|---|---|
| 5.75 | 5.52 | 5.46 | 5.51 | 1-7½ |
| 19.71 | 19.94 | 20.00 | 19.95 | |



15.51 B.M. S.W.G. plg. 165 170 175 180 185 190 195
527 477 424 377 327 277 227

curb stakes b Hatch 20 Morris 11 Hall

6.26
21.77 HI

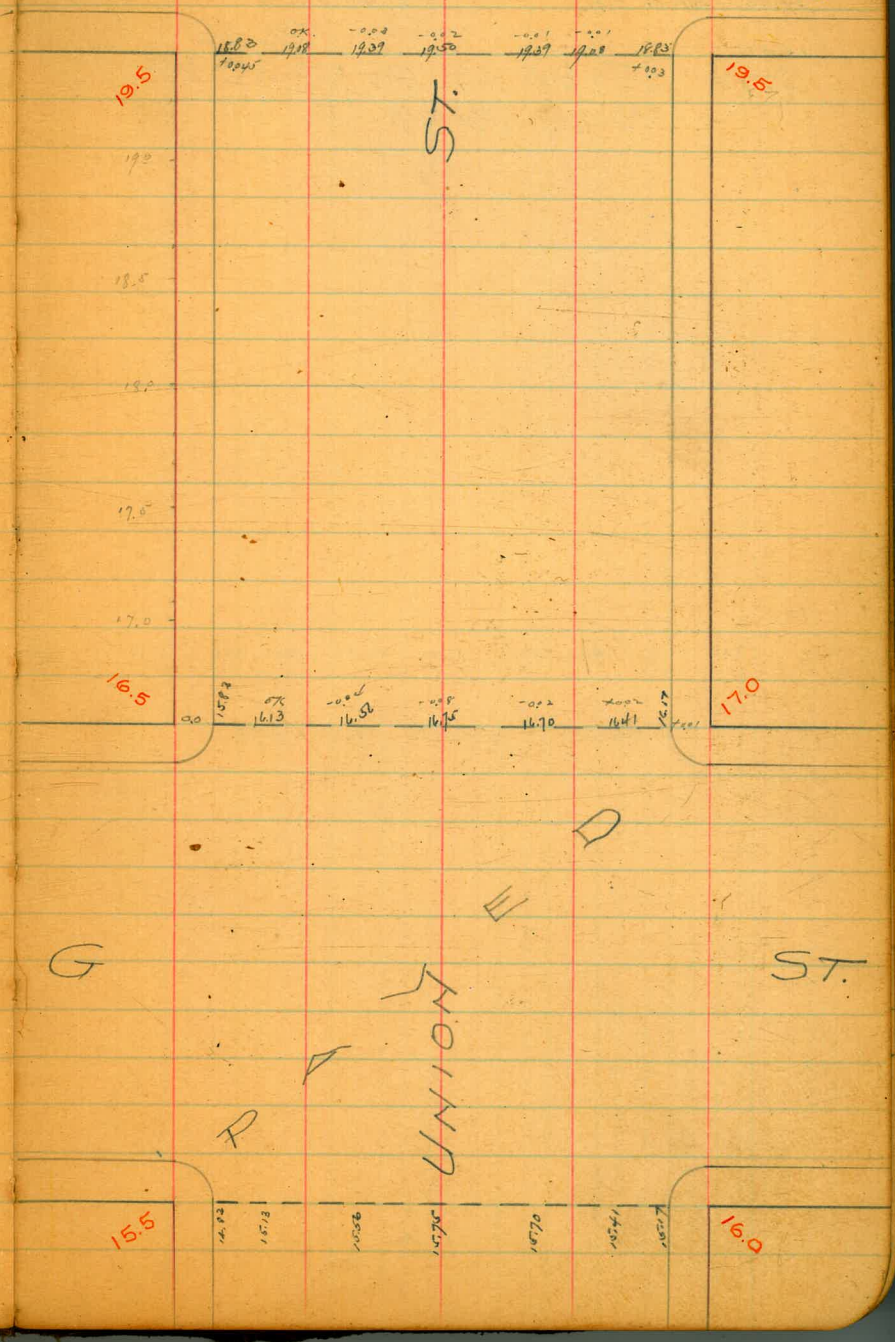
20.37 HI.

16.17 / 4.20 — 15.83 / 4.54

19.47 S.W.F. BM
5.08 / 24.55 — 18.83 / 5.72

19.47
2.51
21.98 HI

| | | | | |
|---|---|---|---|---|
| 19.08 | 2.62 | 2.50 | 2.60 | 2.91 |
| 2.90 | 19.36 | 19.48 | 19.38 | 19.07 |
| 5.55 | 5.30 | 5.31 | 5.46 | 5.85 |
| 16.43 | 16.68 | 16.67 | 16.52 | 16.13 |



10.93 S.W. H. p/g.

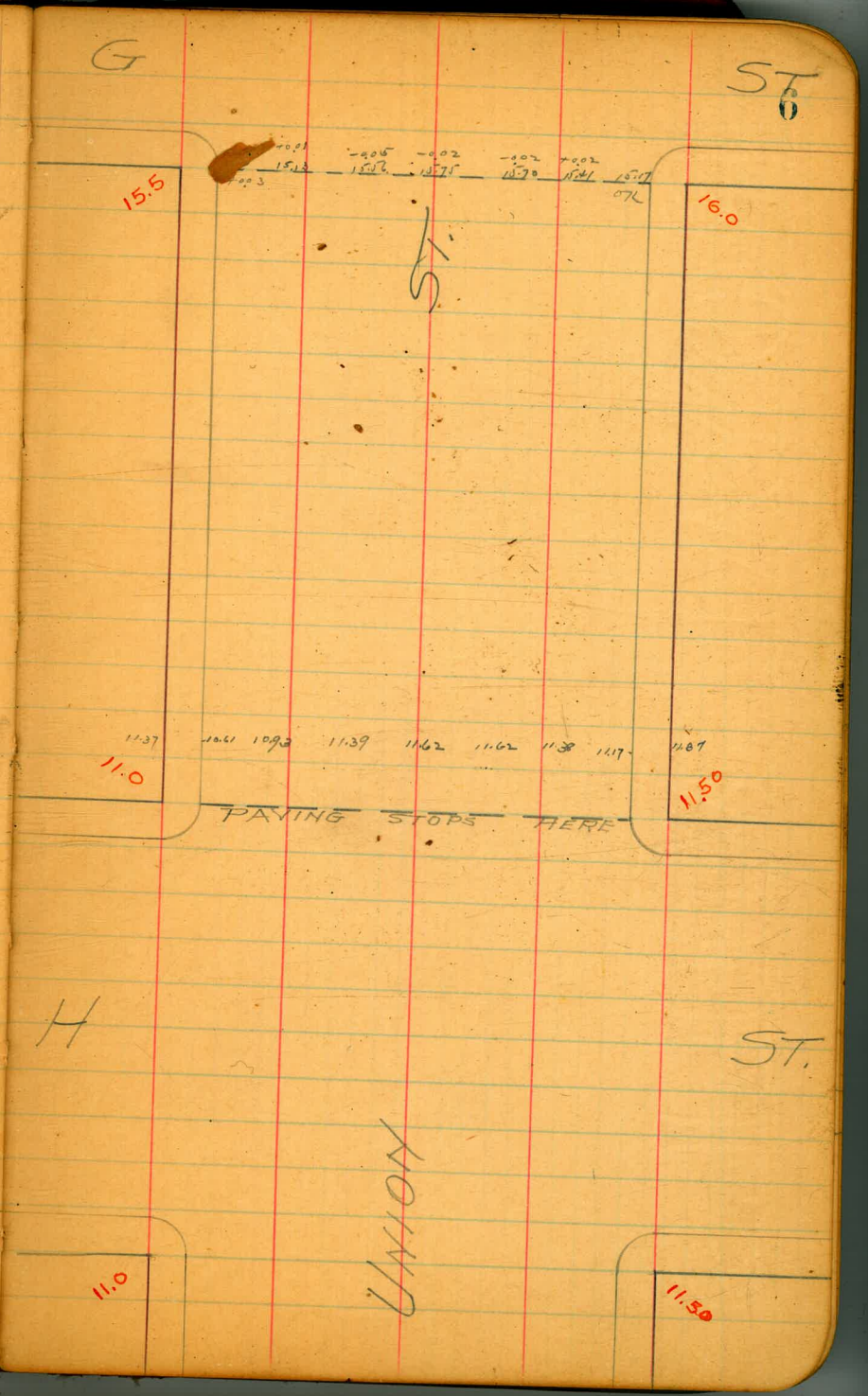
15.51 BM S.W.G.
4.86
20.37 H

14.83 / 5.54 — 15.17 / 5.20

15.51
2.12
17.63 H

2.49 / 15.14 — 2.12 / 15.51 — 1.98 / 15.73 — 1.95 / 15.68 — 2.20 / 15.43 — 7.02 / 10.61 — 6.46 / 11.17

11.38 / 6.25 — 11.62 / 6.01 — 11.39 / 6.24 — 10.93 / 6.70 — 4.86 / 32 / 45.4 — 4.31 / 41.0



20.405 B.M. N.W. C plg

20.93 B.M. SW. B plg

B

ST.

PAVE TO HERE

21.0

22.5

ST.

20.5

21.5

C

ST

COLUMBIA

16.19 B.M. S.W.D. p/9

18.20
17.67
53

20.40
5.00
25.40 H1

20.40 BM.
3.22
23.62 H1.

3.89 | 3.25 | 5.66 | 6.55
19.73 | [illegible].37 | 17.96 | 17.07

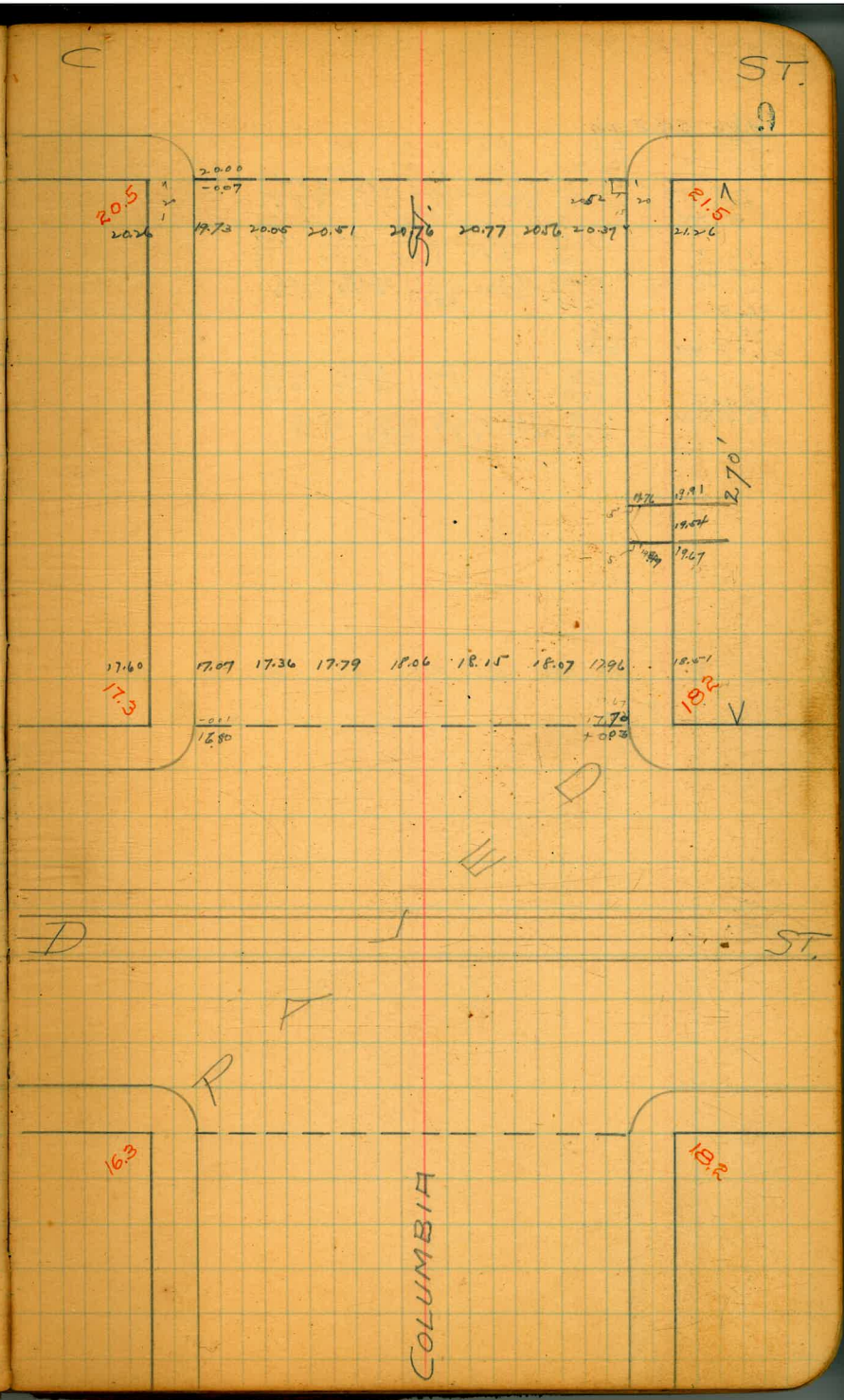
20.56 | 20.[illegible]7 | 20.76 | 20.51 | 20.05
3.06 | 2.85 | 2.86 | 3.11 | 3.57

17.36 | 17.79 | 18.06 | 18.15 | 18.07
6.26 | 5.83 | 5.56 | 5.47 | 5.55

18.07
4.72
22.79 H1

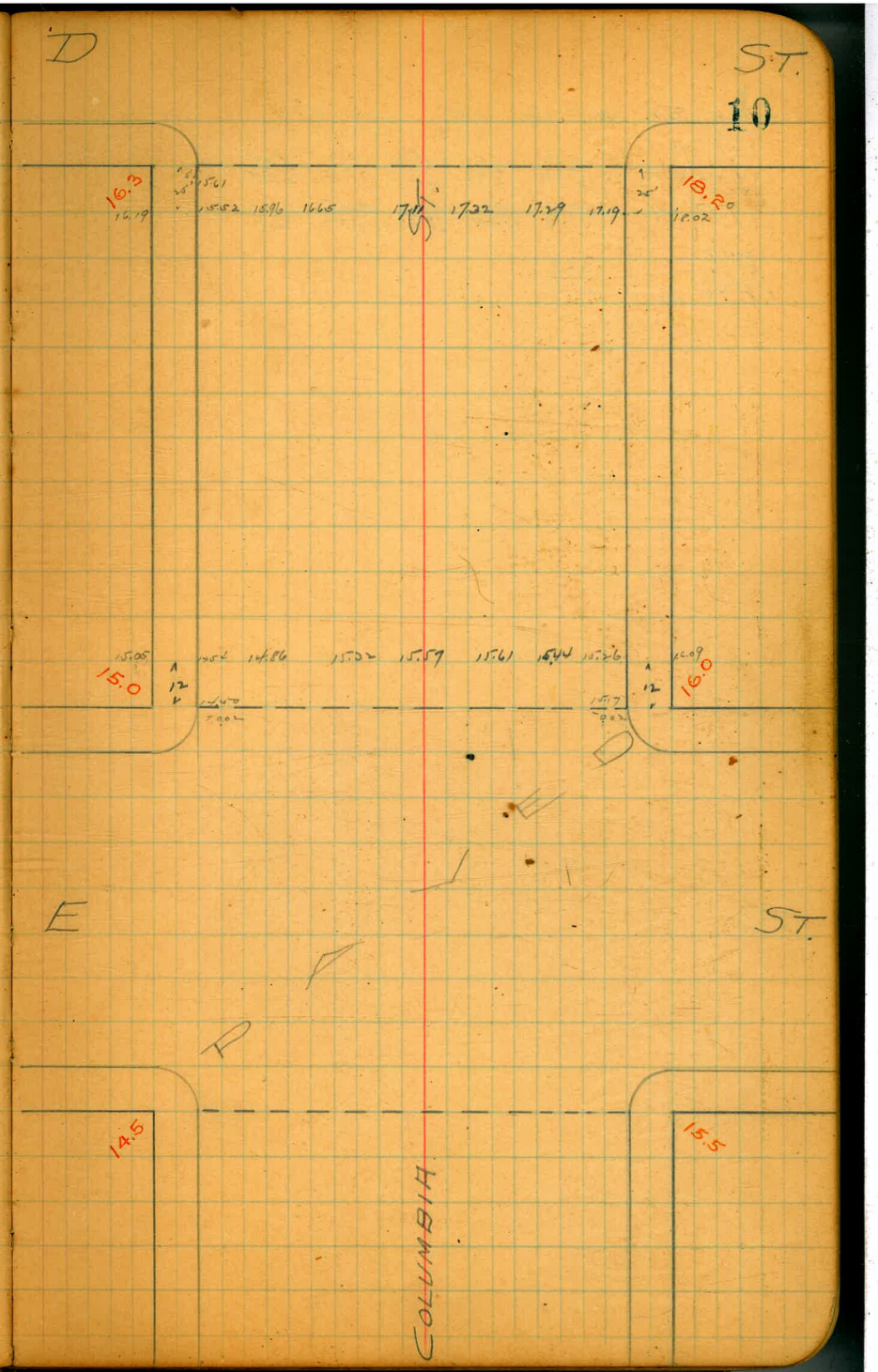
19.67 | 19.91 | 19.54 | 19.76 | 19.82 | 3.30
3.12 | 2.88 | 3.25 | 3.03 | 3.[illegible]7 | 19.49

4.35



14.46 SW. E plg

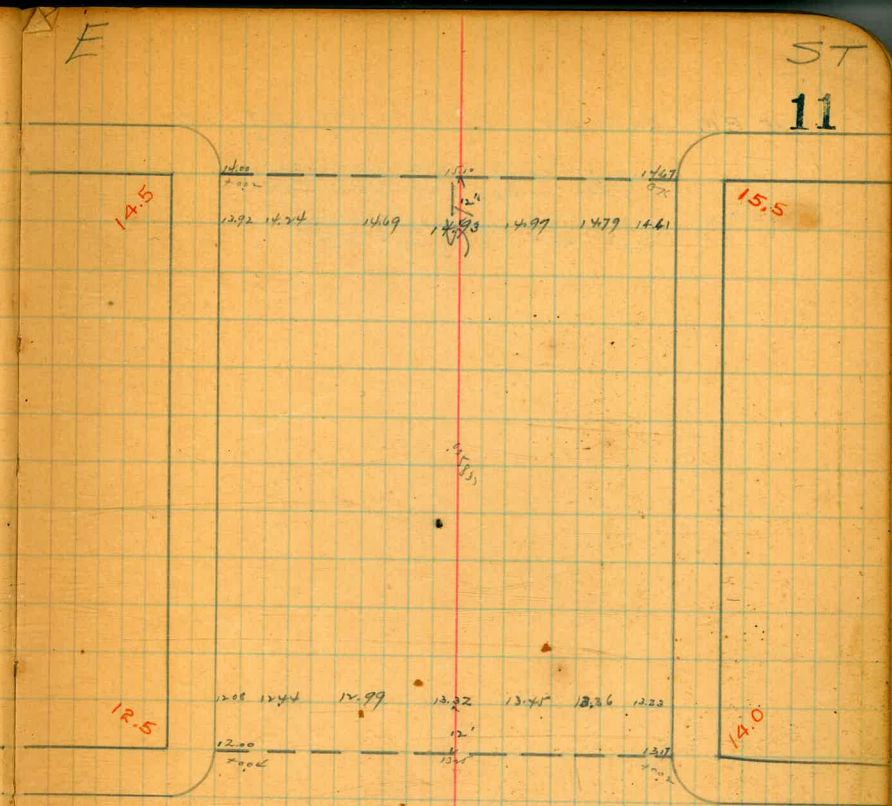
| | | | | | |
|---|---|---|---|---|---|
| 4.86 | 5.30 | 4.65 | 4.19 | 4.40 | |
| 19.32 H | 14.02 | 14.67 | 15.15 | 4.52 | |
| 16.19 Brm | 8.07 | 17.19 | 15.52 | 4.82 | 3.94 |
| 5.42 | 17.54 | 4.42 | 6.09 | 16.79 | 17.67 |
| 21.61 H | | | | | |
| | 15.96 | 16.65 | 17.11 | 17.32 | 17.29 |
| 16.19 | 4.49 | 3.80 | 3.34 | 3.13 | 3.16 |
| 4.26 | | | | | |
| 20.45 H | 15.44 | 15.61 | 15.57 | 15.32 | 14.86 |
| | 5.01 | 4.84 | 4.88 | 5.13 | 5.59 |
| 16.19 | | | | | |
| 4.81 | 15.61 | | | | |
| 21.00 H | 5.39 | | | | |
| | 15.96 | 16.65 | 17.11 | 17.32 | 17.29 |
| 16.19 | 4.58 | 3.89 | 3.43 | 3.22 | 3.25 |
| 4.35 | | | | | |
| 20.54 H | 14.86 | 15.32 | 15.57 | 15.61 | 15.44 |
| | 5.68 | 5.22 | 4.97 | 4.93 | 5.10 |

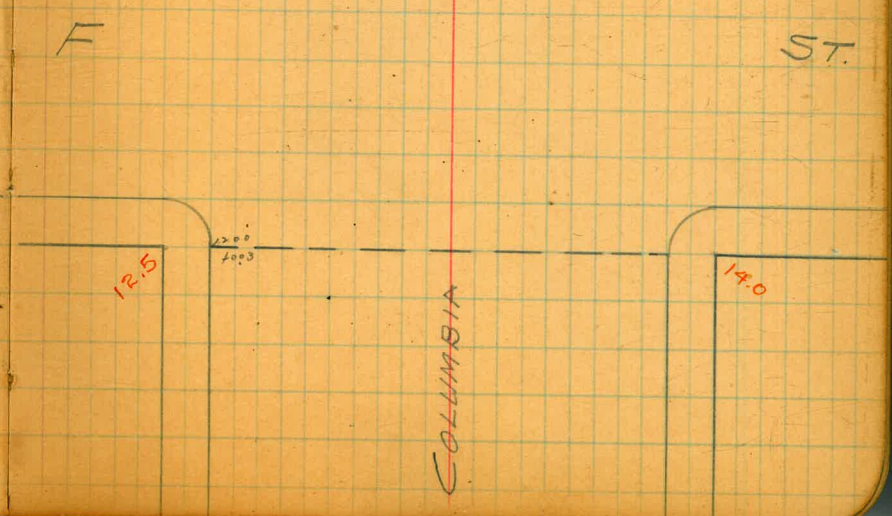


12.47 B.M. S.W. F plg 5.84 4.68 5.83
5.40 12.03 12.19 12.04
17.87 Hz

14.46 B.M. 14.79 14.97 14.93 14.69 14.24
3.27 2.94 2.76 2.80 3.04 3.49
17.73 Hz 12.44 12.99 13.32 13.45 13.36
5.29 4.74 4.41 4.28 4.37

12.47
6.21 13.69
18.78 Hz 5.09



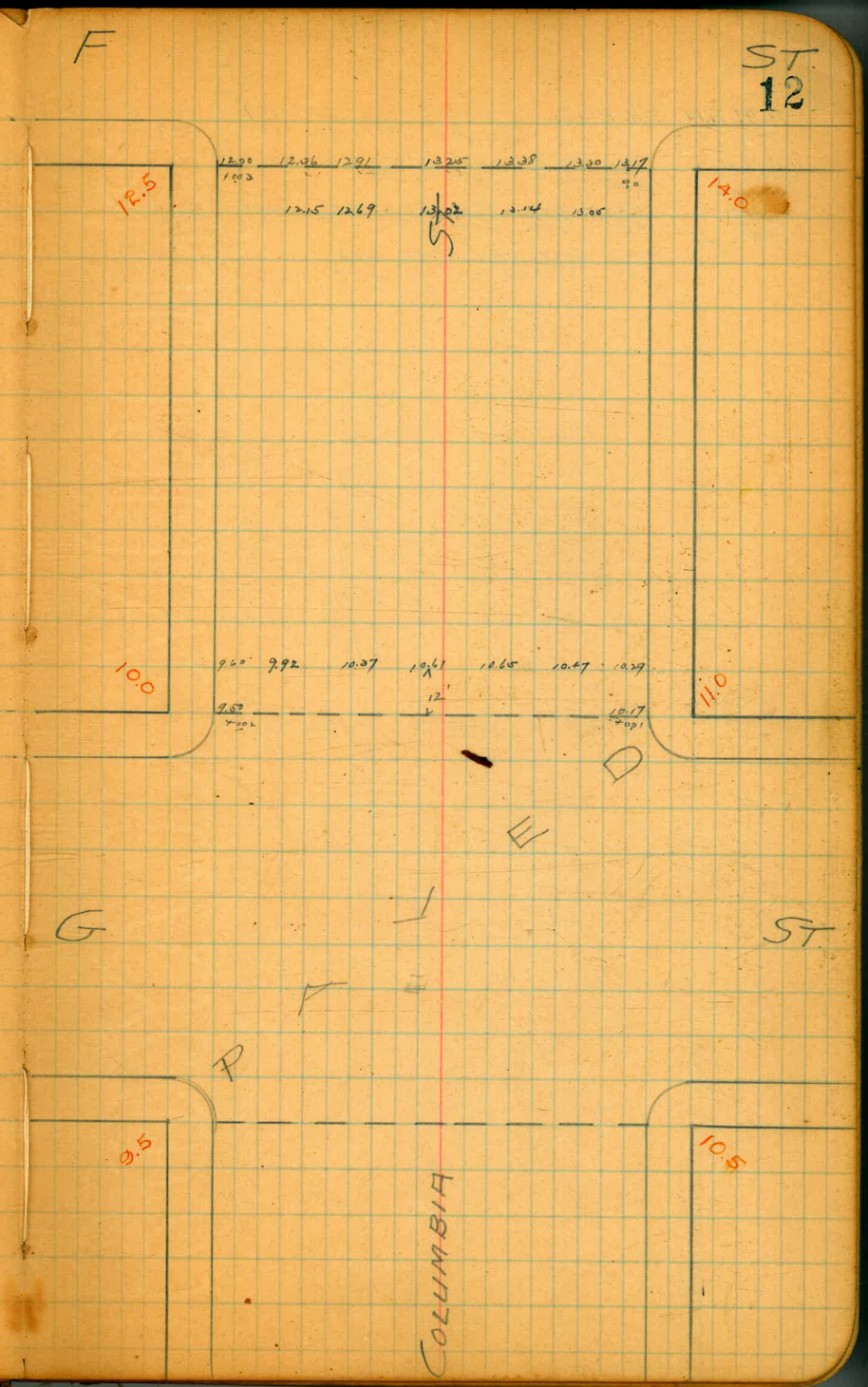



9.35 B.M. SW. G plg 11.77 M. 1.59 / 10.18 2.25 / 9.52 17.87 M. 4.7° / 13.17

12.47 / 0.22 / 12.69 M

12.15 / 3.00 — 12.69 / 2.67 — 13.02 / 2.56 — 13.14 / 2.64 — 13.05

10.47 / 5.32 — 10.15 / 5.0 — 10.61 / 10.08 — 10.37 / 5.0 — 9.92 / 5.77



935
263
11.98 Hz

4.91 B.M. S.W. H. plg. 8.74 / 3.24 7.98 / 4.00 7.22 / 4.76 6.47 / 5.51 5.71 / 6.27 5.50 / 6.48

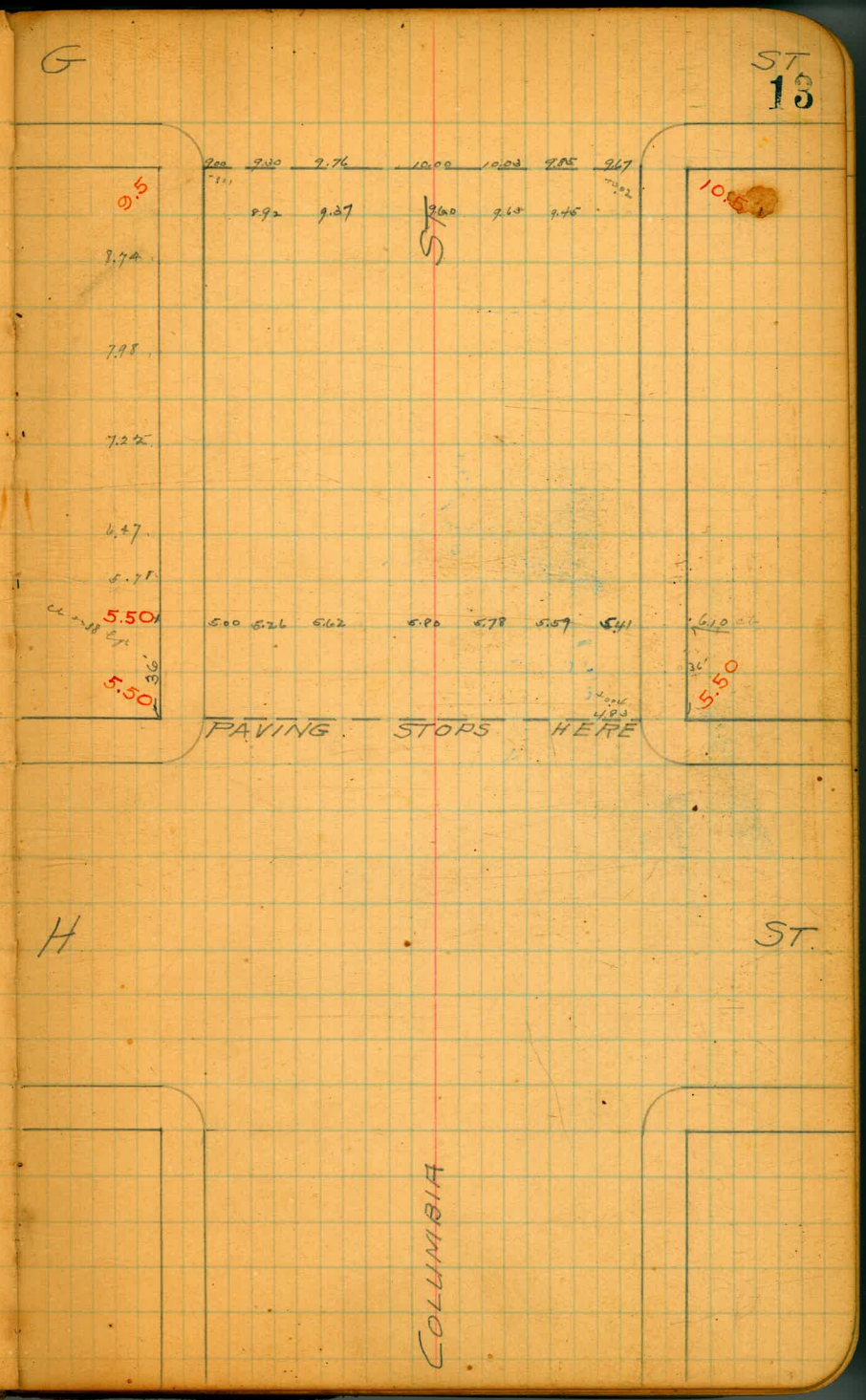
curb Stakes
6 Hatch
20 Moore
11 Hall

9.35 B.M.
2.42
11.77 Hz
9.35
2.57
11.92 Hz

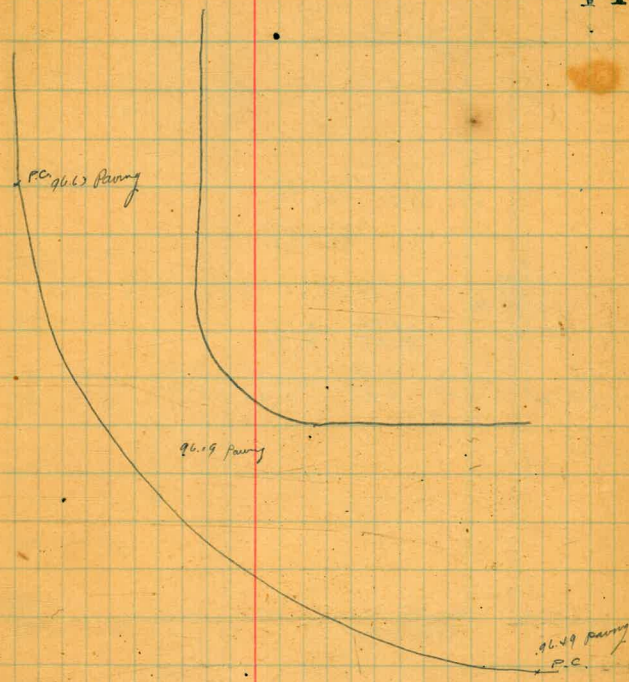
2.76 / 9.01 2.08 / 9.69 6.90 / 4.87 5.00 / 6.77

8.92 / 3.00 9.37 / 2.55 9.60 / 2.32 9.63 / 2.29 9.45 / 2.47 6.24 / 5.68 6.42 / 5.50

5.26 / 6.66 5.62 / 6.30 5.80 / 6.12 5.78 / 6.14 5.59 / 6.33



| | | | | | |
|---|---|---|---|---|---|
| H1. 100.00 | 3.81 | 3.51 | 3.37 | 3.80 | 3.71 |
| | 96.19 | 96.49 | 96.63 | 96.20 | 346 |
| | | | | | 0.25 |
| | 3.74 | 3.93 | 4.06 | 5.28 | 4.85 |
| | 3.65 | 3.5 | 3.81 | 4.85 | 5.5 |
| | | 4.26 | [illegible] | .43 | 5.35 |



16.44 BM. S.W. India
2.35 — 18.79 HI
14.50 — 4.29
13.50 — 5.29
12.50 — 6.29

16.44 BM
82
17.26 HI
12.50 — 4.76
13.50 — 3.76
14.50 — 2.76
15.50 — 1.76
16.50 — 0.76 Curb Stakes

16.44
2.81
19.25

11.83
7.42

15.83 — 4.56
16.17 — 4.22
16.37 — 4.02
16.45 — 3.84

16.44 BM
3.95
20.39
6.20
14.14
3.12
17.26

11.83 — 5.43
12.17 — 5.09
12.37 — 4.89
12.45 — 4.81

16.44
3.27
19.71 HI

7.62 — 12.09
7.05 — 12.66
6.74 — 12.97
6.32 — 13.39
5.86 — 13.85
5.52 — 14.19

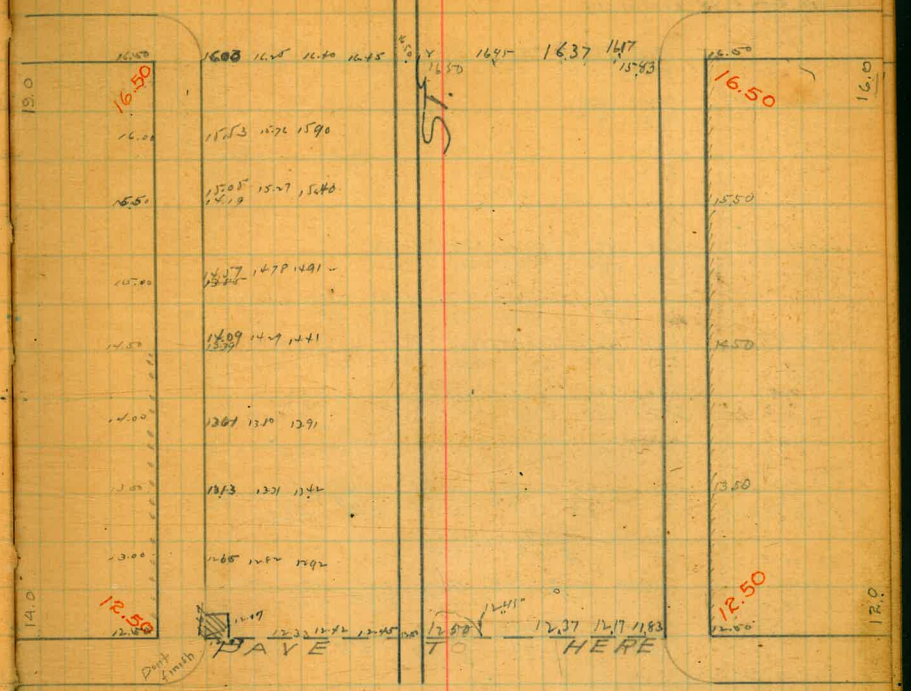
15.83 — 3.88
12.00 — 7.71

16.44
2.11
18.55 HI
16.00 — 2.55
12.17 — 6.38
16.25 — 2.30
16.40 — 2.15
16.45 — 2.10
12.45 — 6.10
12.42 — 6.13
12.33 — 6.22

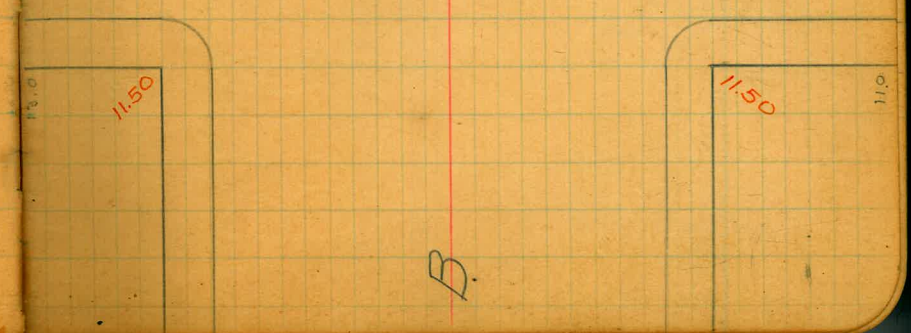
16.44
3.67
20.11 HI
12.50 — 7.61

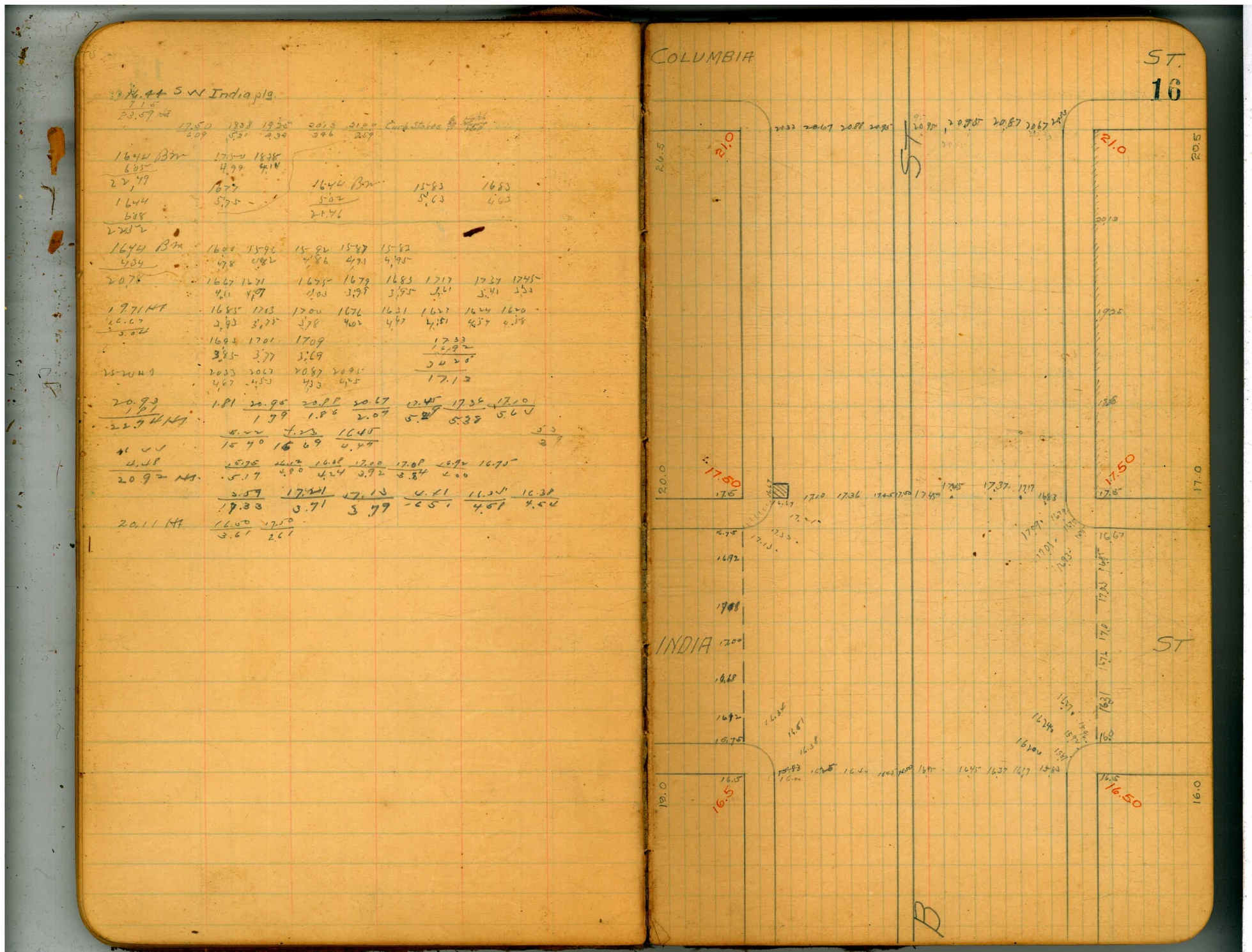
INDIA ST.

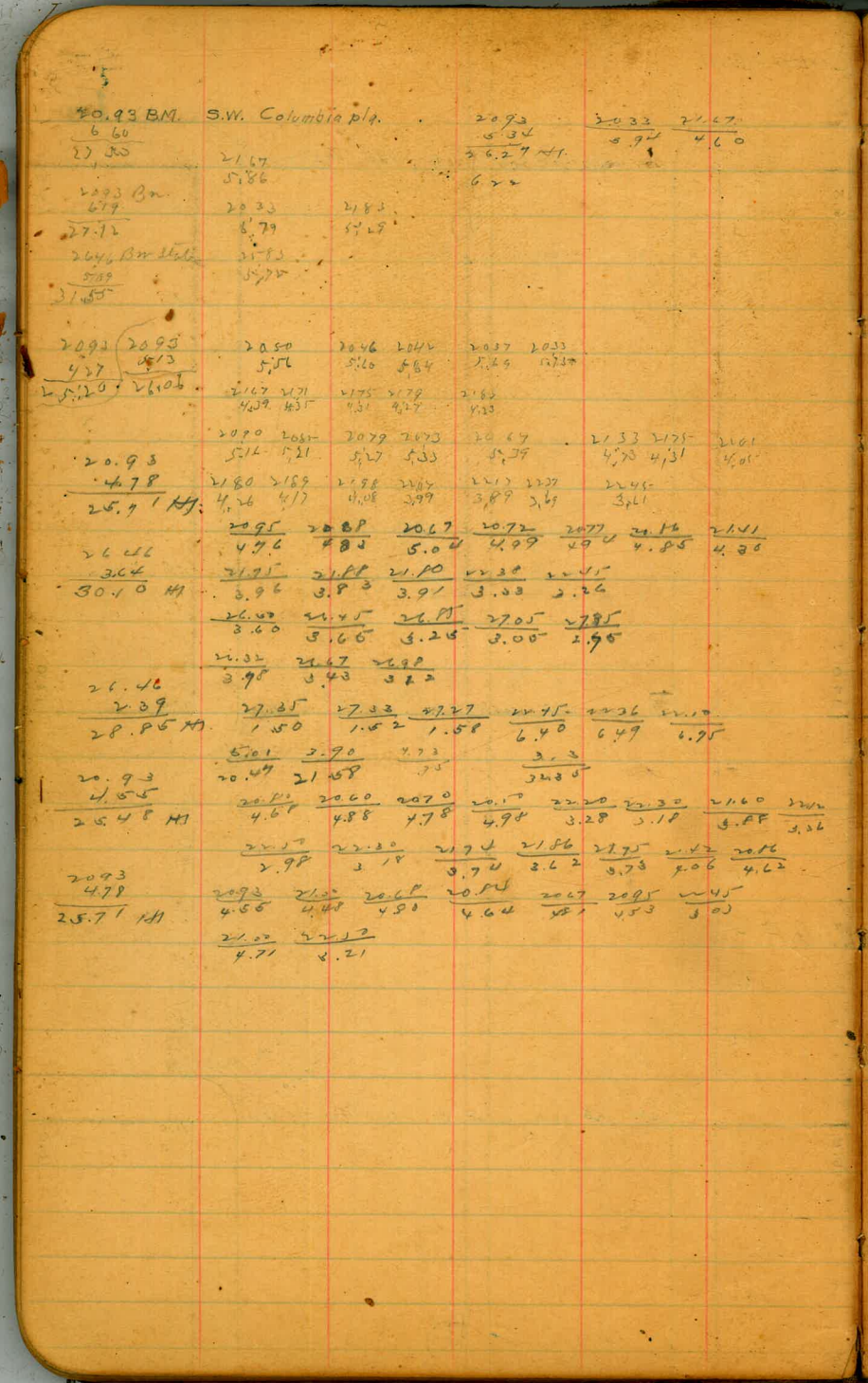


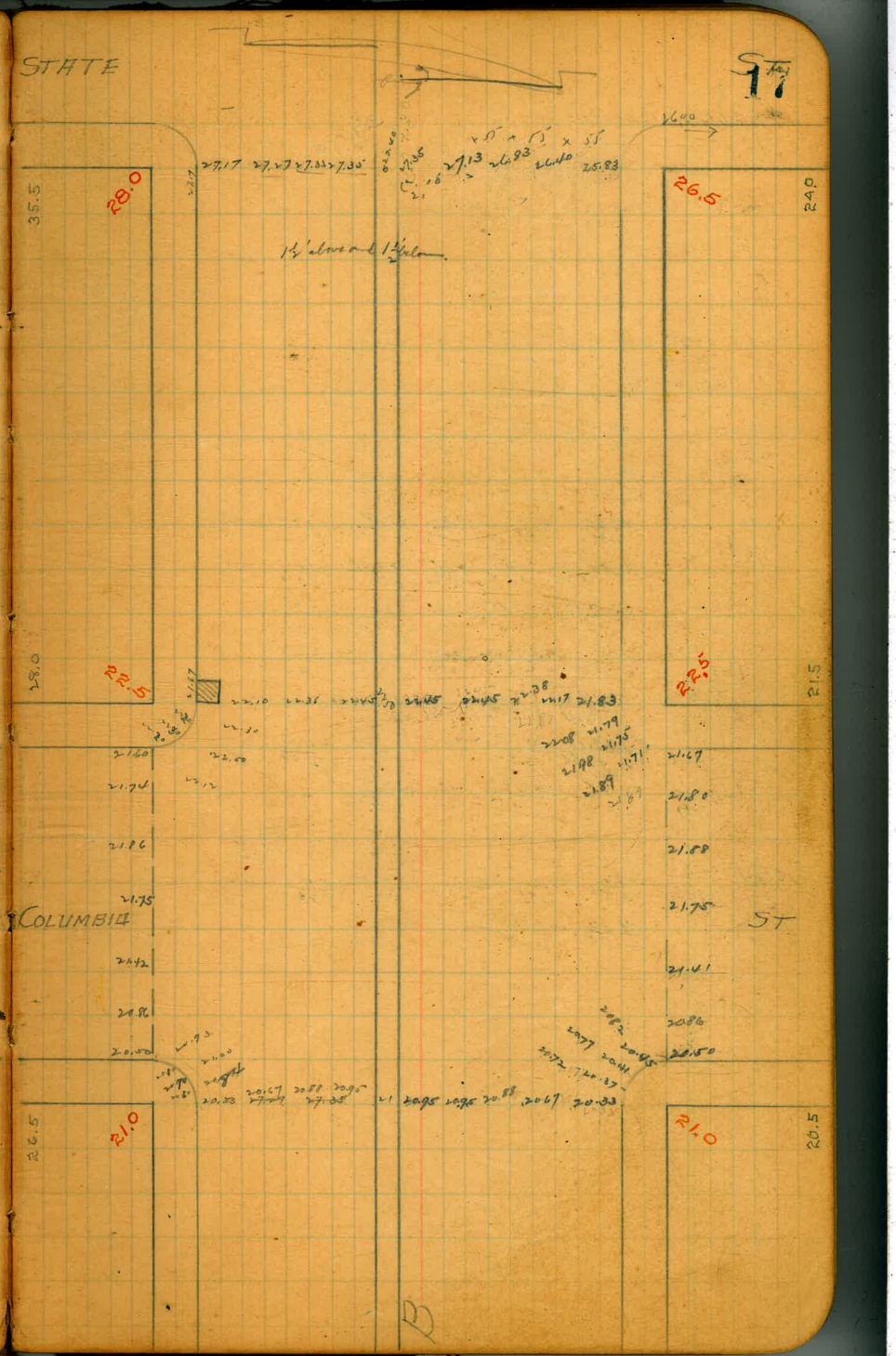



ARCTIC ST.




COLUMBIA ST.
16
INDIA ST
B





20.93 BM. S.W. Columbia pla.

6.60
27.50

2093
5.34
26.27 HI.
6.22

2033
5.94

21.67
4.60

21.67
5.86

2093 Bm.
6.79
27.72

2033
6.79

2183
5.29

2646 Bm Stat.
5.89
31.55

2183
5.72

2093
4.27
25.20

2093
5.13
26.06

2050
5.56

2046
5.60

2042
5.84

2037
5.69

2033
5.73

2167
4.39

2171
4.35

2175
4.31

2179
4.27

2183
4.23

2090
5.16

2085
5.21

2079
5.27

2073
5.33

2067
5.39

2133
4.73

2175
4.31

2161
4.05

20.93
4.78
25.71 HI.

2180
4.26

2189
4.17

2198
4.08

2207
3.99

2217
3.89

2237
3.69

2245
3.61

2095
4.76

2088
4.83

2067
5.04

2072
4.99

2077
4.94

2086
4.85

2141
4.30

26.46
3.64
30.10 HI.

2175
3.96

2188
3.83

2180
3.91

2238
3.33

2245
3.26

2650
3.60

2645
3.65

2685
3.25

2705
3.05

2785
2.95

2632
3.98

2667
3.43

2698
3.12

26.46
2.39
28.85 HI.

2735
1.50

2733
1.52

2727
1.58

2245
6.40

2236
6.49

2210
6.75

5.01
20.47

3.90
21.58

4.73
.75

3.3
32.35

20.93
4.55
25.48 HI.

2080
4.68

2060
4.88

2070
4.78

2050
4.98

2220
3.28

2230
3.18

2160
3.88

2212
3.36

2250
2.98

2230
3.18

2174
3.74

2186
3.62

2175
3.73

2142
4.06

2086
4.62

2093
4.78
25.71 HI.

2093
4.55

2100
4.48

2068
4.80

2084
4.64

2067
4.81

2095
4.53

2245
3.03

2100
4.71

2250
3.21

STATE

ST

17

2600

27.17 27.27 27.33 27.35

27.13 26.83 26.40 25.83

1½' above and 1½' below

35.5

28.0

26.5

24.0

28.0

22.5

22.5

21.5

22.10 22.36 22.45 22.45 22.45 22.38 22.17 21.83

2208 21.79 21.75 21.71 21.89

21.60 21.74 21.86 21.75 21.42 20.86 20.50

21.67 21.80 21.88 21.75 21.41 20.86 20.50

COLUMBIA

ST

20.33 20.67 20.88 20.95 21 20.95 20.95 20.88 20.67 20.33

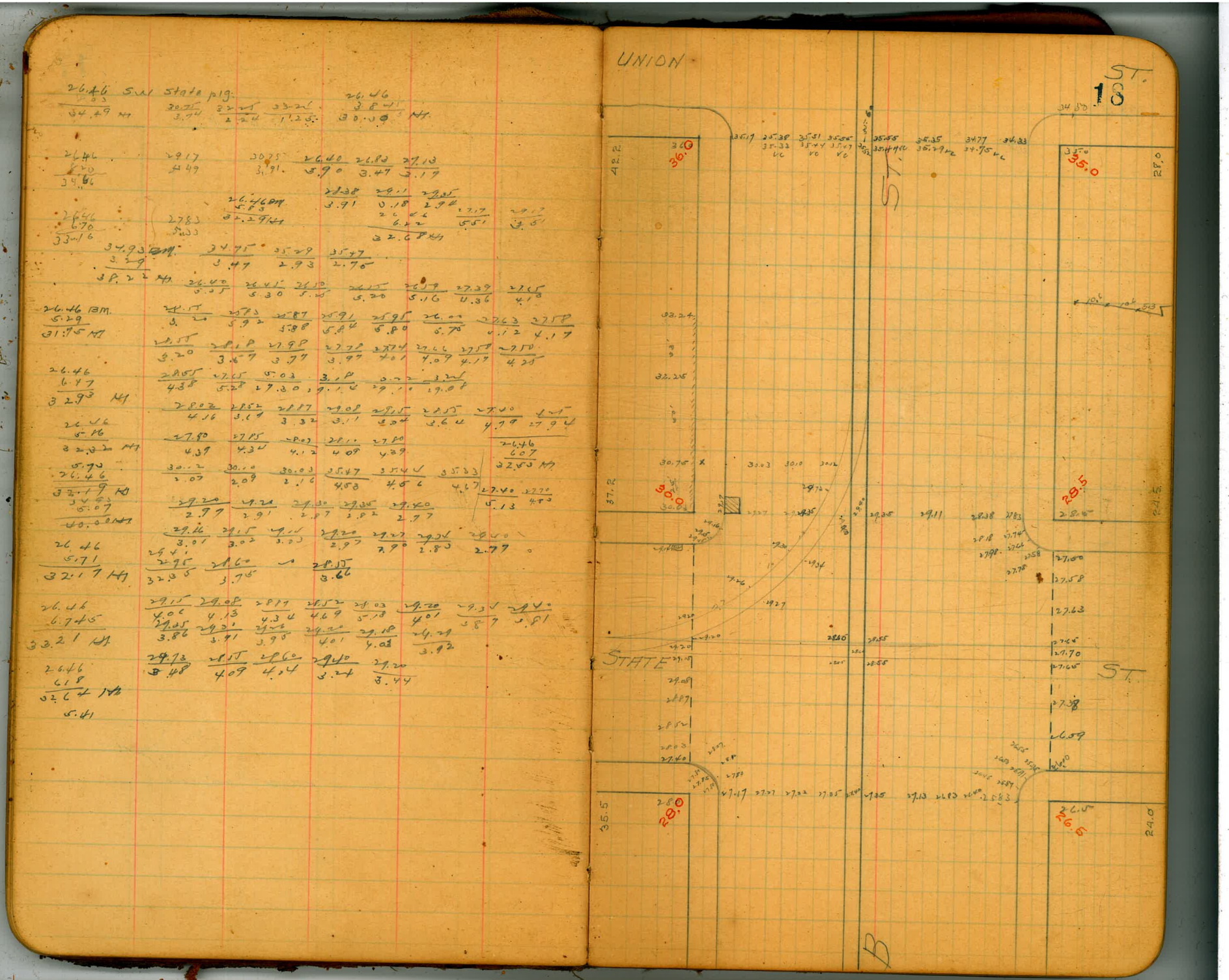
26.5

21.0

21.0

20.5

B


UNION
ST.
STATE
ST.
ST.
B

34.93 B.M. S.W. Union plg
5.56
40.49

35.17
3.32

34.93 Bm.
5.50
40.43

34.33
6.10

35.50
3.81
39.31 Ht.

35.38 / 3.93 | 35.88 / 3.43 | 36.05 / 3.26 | 34.77 / 4.54 | 35.35 / 3.96 | 35.55 / 3.76 | 34.33 / 4.98

34.93
4.57
39.50 Ht.

34.77 / 4.73 | 34.33 / 5.17 | 34.29 / 5.21 | 34.25 / 5.25 | 34.21 / 5.29 | 34.17 / 5.33 | 35.29 / 4.21 | 35.47 / 4.03

35.55 / 3.95 | 35.35 / 4.15 | 34.77 / 4.73 | 34.70 / 4.80 | 34.62 / 4.88 | 34.54 / 4.96 | 34.47 / 5.03 | 34.87 / 4.63

34.93
5.07
39.90 Ht.

35.00 / 4.50 | 35.67 / 4.29 | 35.17 / 4.79 | 35.55 / 4.41 | 35.51 / 4.45 | 35.38 / 4.58 | 35.17 / 4.79

35.55 / 4.45 | 35.51 / 4.49 | 35.38 / 4.62 | 35.50 / 4.65 / 40.15 Ht. | 35.67 / 4.48 | 36.05 / 4.10 | 36.01 / 4.14 | 35.84 / 4.27

40.00 Ht.

4.76 / 35.24 | 4.11 / 35.89 | 4.84 / 35.16 | 4.06 / 35.94 | 35.60 / 4.40 | 35.80 / 4.20 | 75 / 25

35.60 / 4.40 | 35.85 / 4.15 | 35.64 / 4.36 | 35.90 / 4.10 | 35.72 / 4.28 | 35.53 / 4.47 | 35.89 / 4.11 | 36.00 / 4.00

34.93
5.41
40.34 Ht.

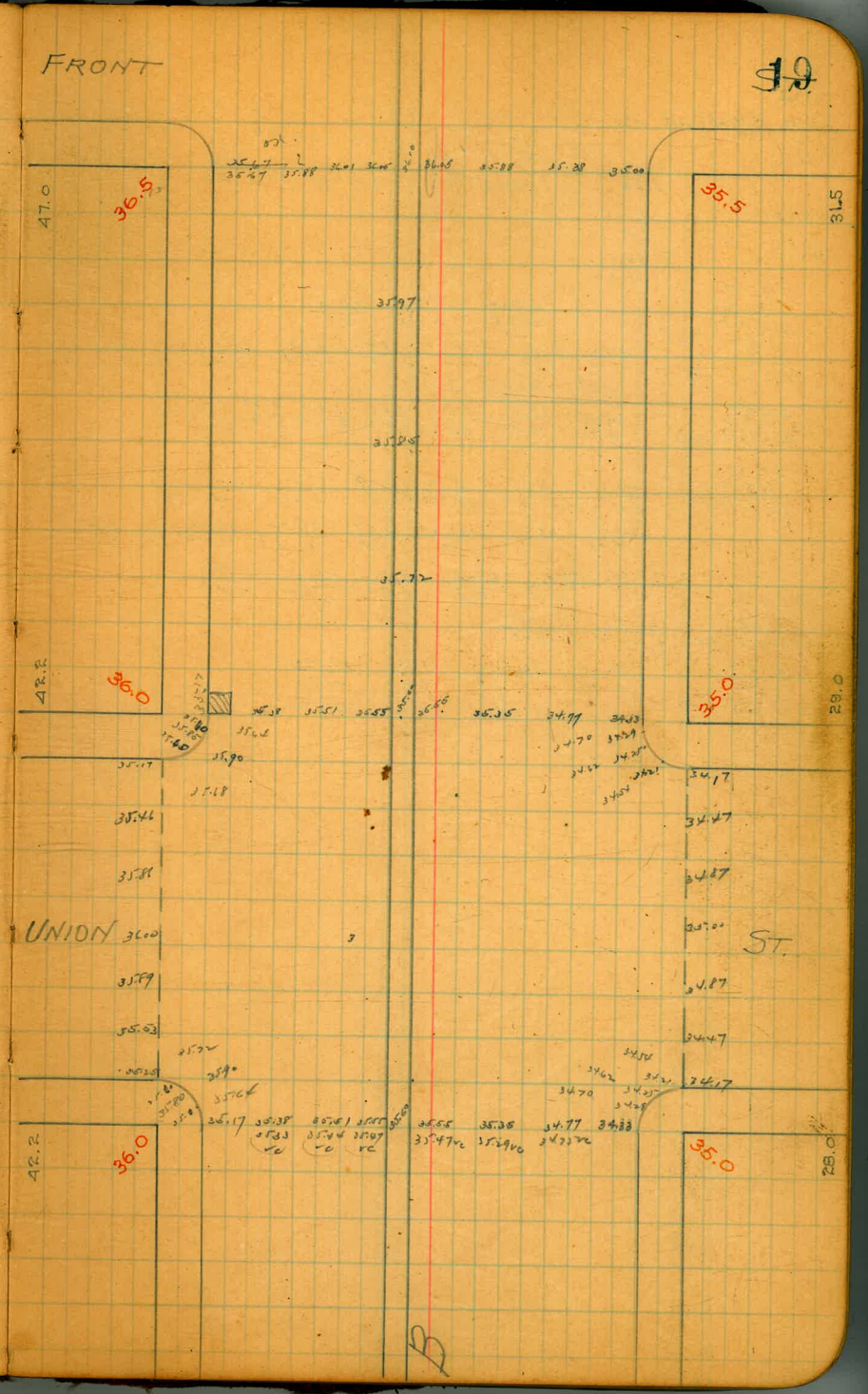
35.86 / 4.14 | 35.46 / 4.54 | 35.68 / 4.32 | 35.90 / 4.10 | 35.64 / 4.36 | 35.55 / 4.45 | 4.21 / 35.79

35.52 / 4.82 | 35.60 / 4.74

35.50 B.M.
4.63
40.13 Ht.

36.10 / 4.03 | 35.97 / 4.16 | 35.85 / 4.28 | 35.72 / 4.41 | 35.60 / 4.53





35.50 S.W. Front plg.
5.81
41.31

35.37
5.64

35.50 Bm
4.87
40.37

35.00
5.37

35.00
4.62

35.50
4.12
39.62

35.50
4.76
40.26 HS

35.50
5.27
40.77 HS

35.50
4.80
40.30 HS

36.93
4.24
41.17 HS

35.50
5.33
40.83 HS

36.93
4.74
41.67 HS
40.25

35.16 4.68
36.51 36.99

3.40 3.07 2.82
36.85 37.18 37.43

35.38 35.88 36.05
4.88 4.38 4.21

35.00 34.95 34.91 34.87 34.83 35.31 35.23 35.15 35.08
5.26 5.31 5.35 5.39 5.43 4.95 5.03 5.11 5.18

35.39 35.50 35.08
4.87 4.76 5.18

36.05 36.01 35.88 3.85 3.53 3.37 3.35
4.72 4.76 4.89 36.92 37.24 37.40 37.42

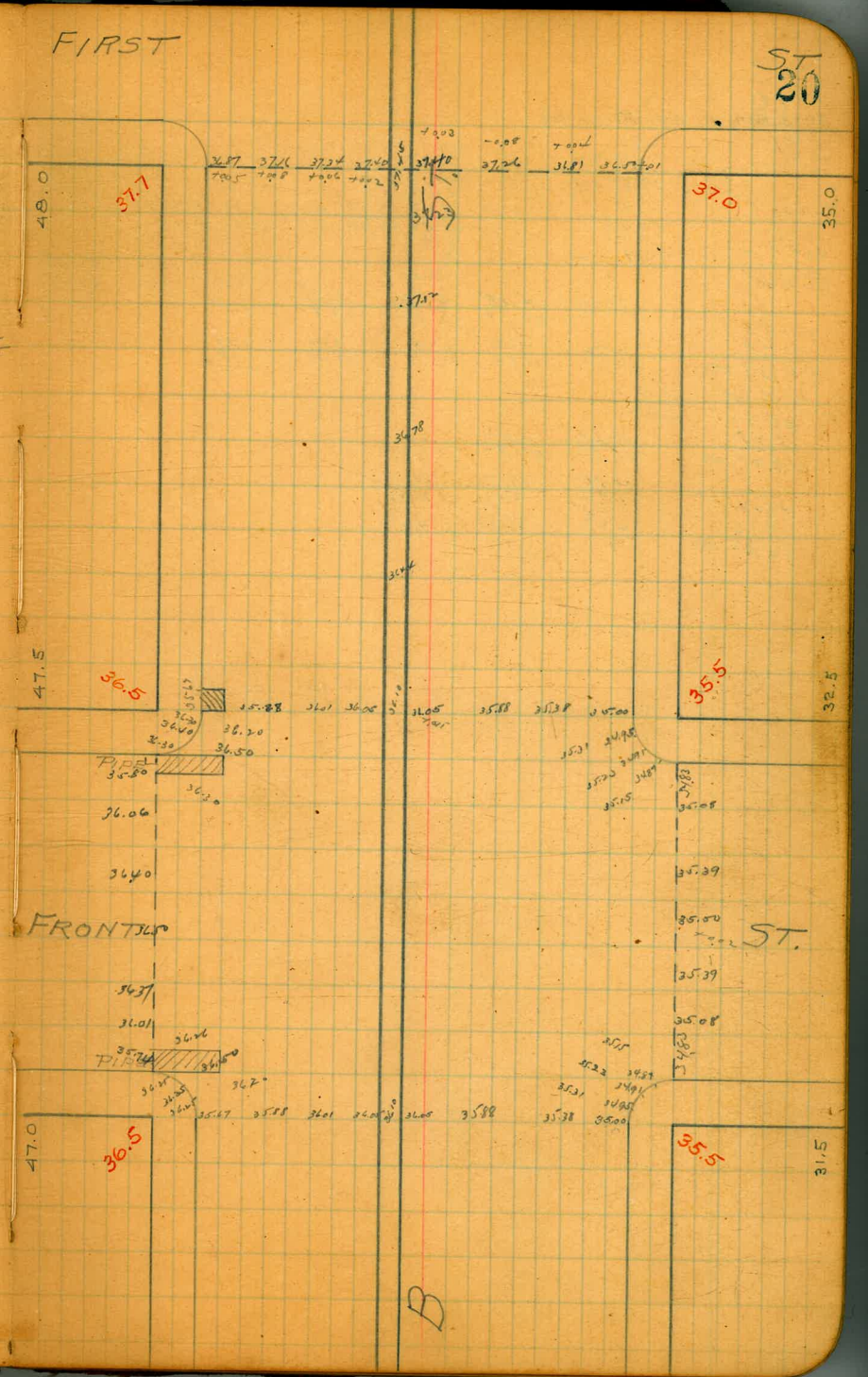
4.56 3.46 4.50 3.79 36.01 36.25 36.35
35.74 36.44 35.80 36.51 4.29 4.05 3.95

36.30 36.40 36.20 36.50 36.30 36.06 36.40 36.50
4.00 3.90 4.10 3.80 4.00 4.24 3.90 3.80

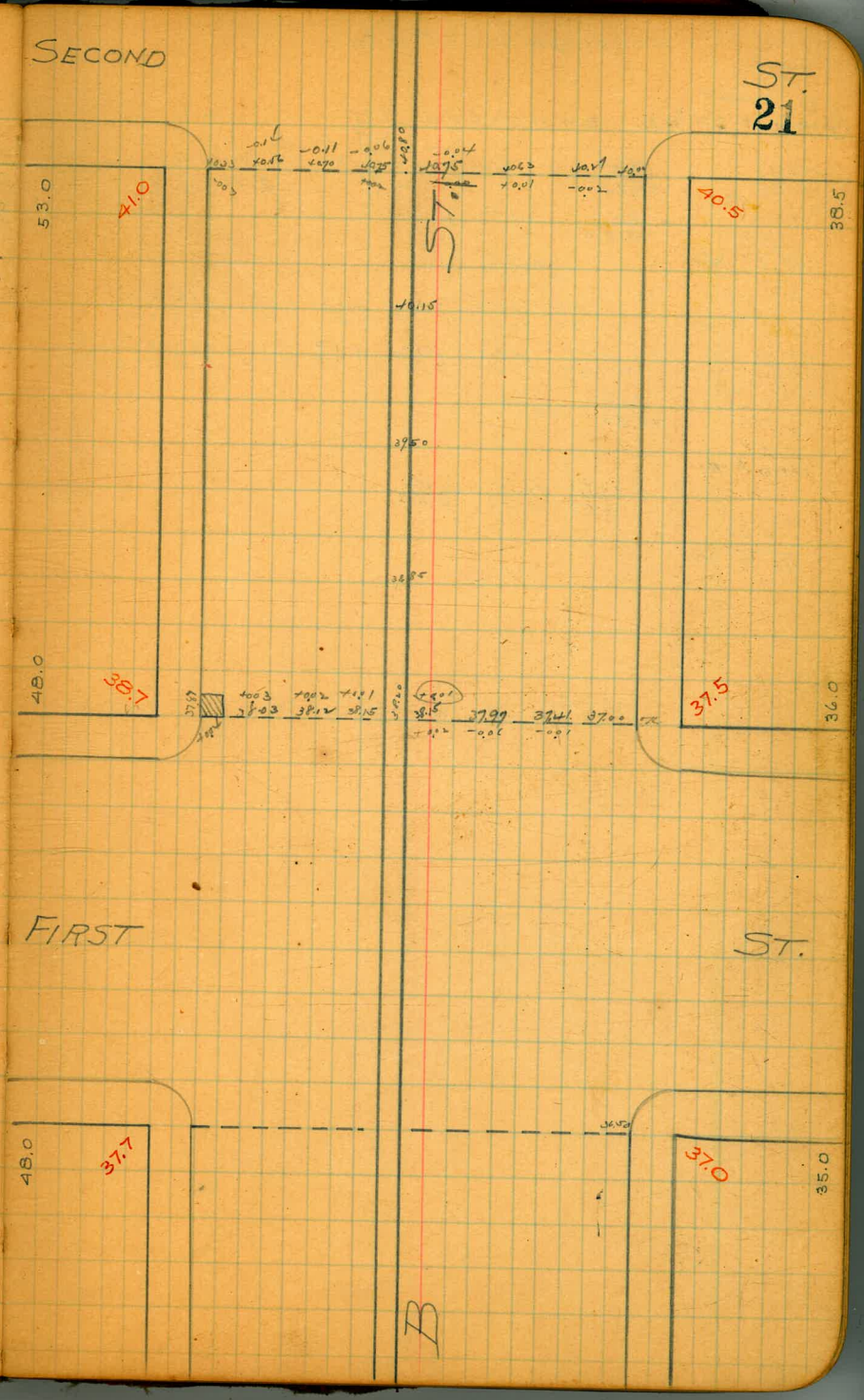
36.37 36.01 36.26 36.50 36.05 36.10
3.93 4.29 4.04 3.80 4.25 3.80

37.23 5.05
3.94 36.065

36.10 36.44 36.78 37.12
4.73 4.39 4.05 3.71
4.72 4.38 4.04



36.93 B.M. S.W. First plg.



40.44 — B.M. S.W. 2d, & B

No. B.M. at 2nd & B. B.M. at 2nd C. N.W. 38.43

40.40
6.30
46.70 H1
40.44
6.67
47.11 H1

6.75
39.95

3.26
43.86

3.45

6.84
45.27
4.87
40.40
6.35
46.75

41.17 41.33
5.58 5.42

6.07
41.04

40.44
6.33
46.77 H1

40.44 B.M.
6.83
47.27 H1

5.52 5.16 5.02 2.26 2.30 2.53 2.01 5.02
41.25 41.61 41.75 44.51 44.47 44.24 43.86

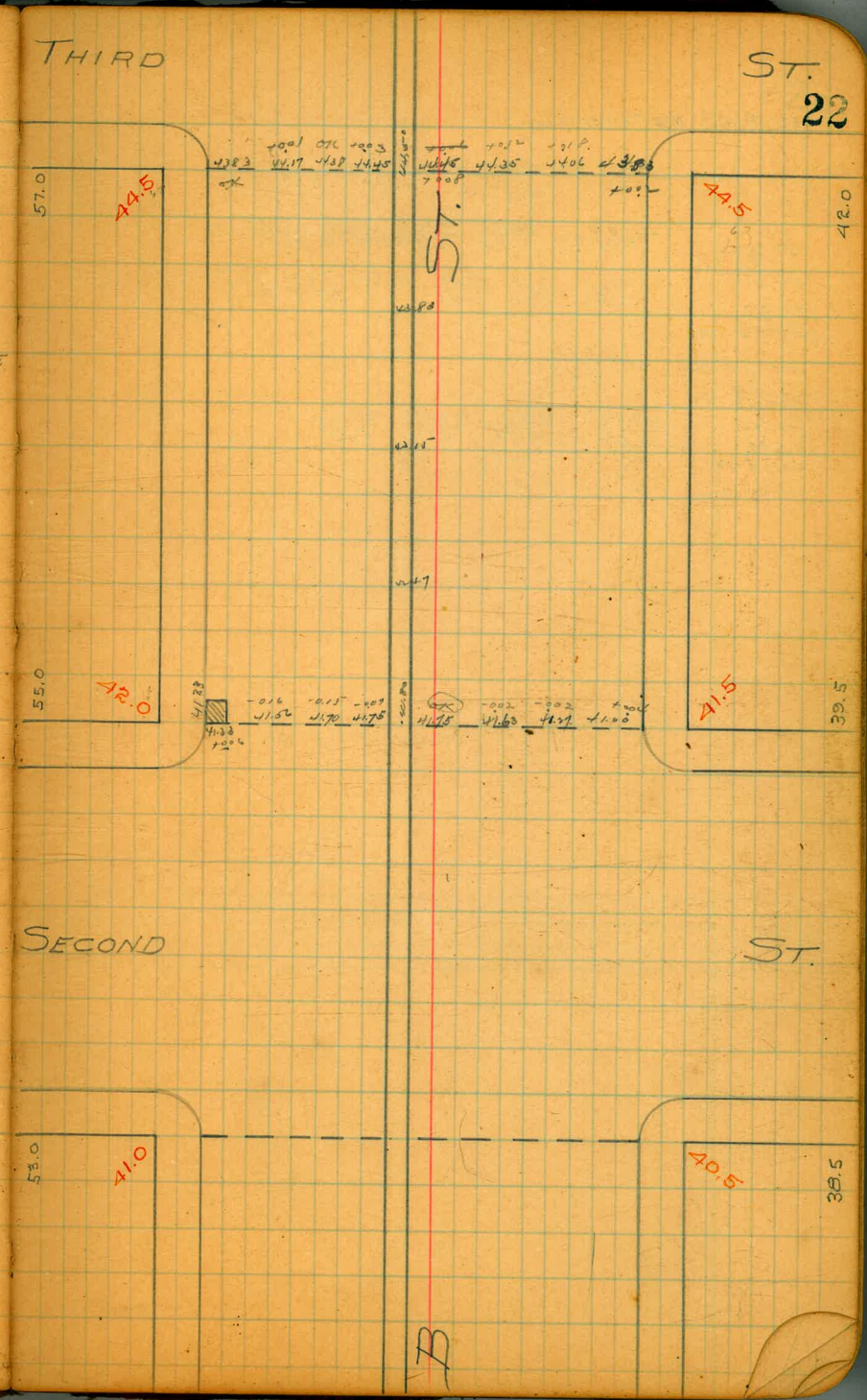
5.88 5.87 5.72 5.59 3.44 3.09 2.89 2.81
41.39 41.40 41.55 41.68 33.80 44.18 44.38 34.48

2.53 1.93
44.53 45.13

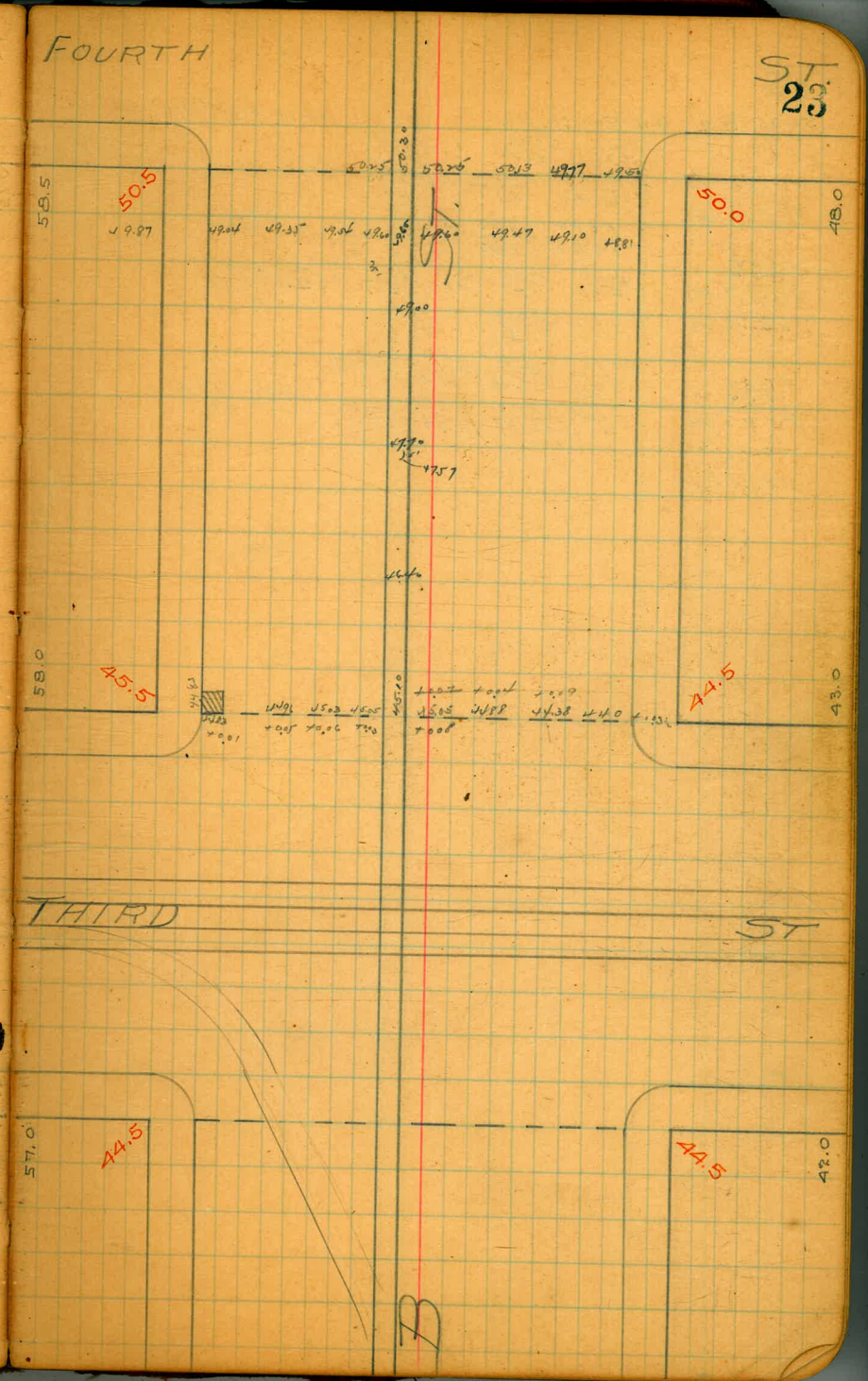
40.44
6.62
47.06 H1

43.83 43.15 42.47
3.08 3.76 4.44

40.44
6.47
46.91 H1



HH.32 B.M. N.W Third. blg.



50.35 B.M. N.W. Fourth. plg 5466 NW 5th plg

5.41
55.76 HI

50.0
5.76

53.0
2.76

50.35 BM.
5.39
55.74 HI

50.27
5.47

50.63
5.11

50.75
4.99

6.59
49.60

49.83
6.36

53.33
2.86

5.81
50.38
49.71
.67

50.05
6.14

50.35
5.84
56.19 HI

50.55
6.64

50.70
5.49

50.75
5.44

53.55
2.64

53.70
2.49

53.75
2.44

55.26 HI

50.75
4.51

53.75
1.51

50.35
5.45
55.80 HI

50.80
5.00
.25
5.25
3.0

51.80
4.00

52.80
3.00

53.80
2.00

5.19
49.97

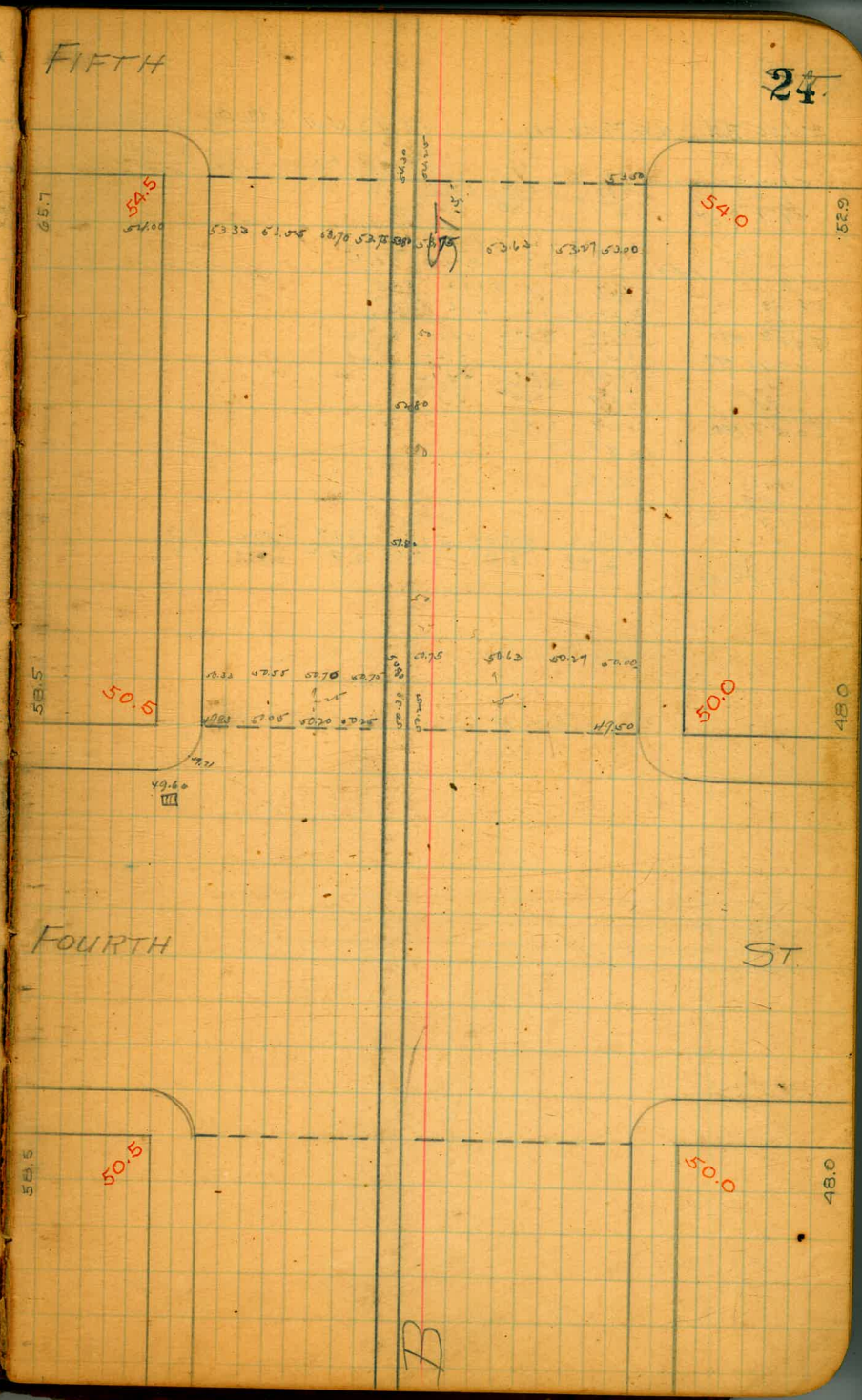
5.37
49.79

4.70
50.46

5.05
50.11

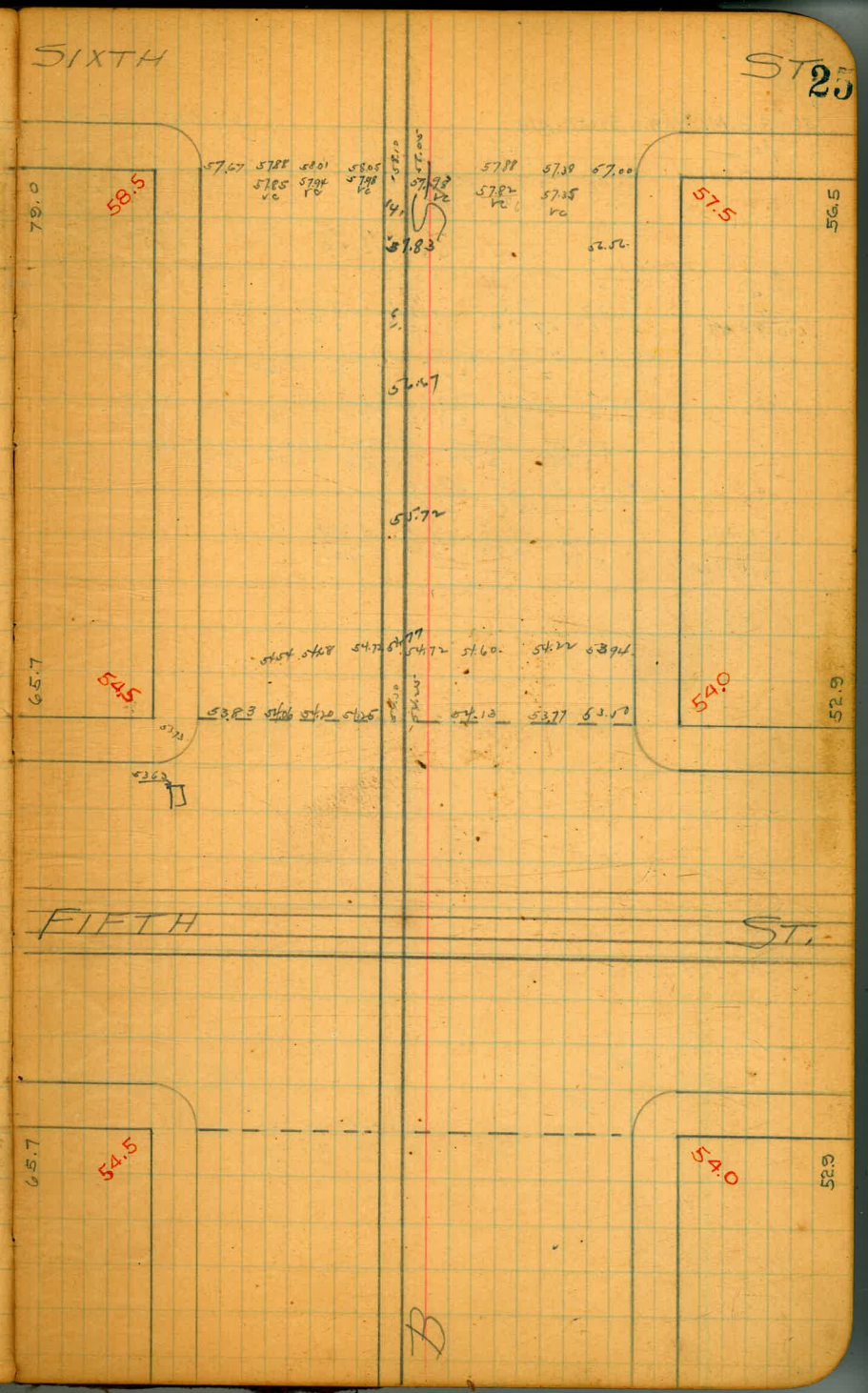
4.99
50.17

50.35
4.81
55.16 HI



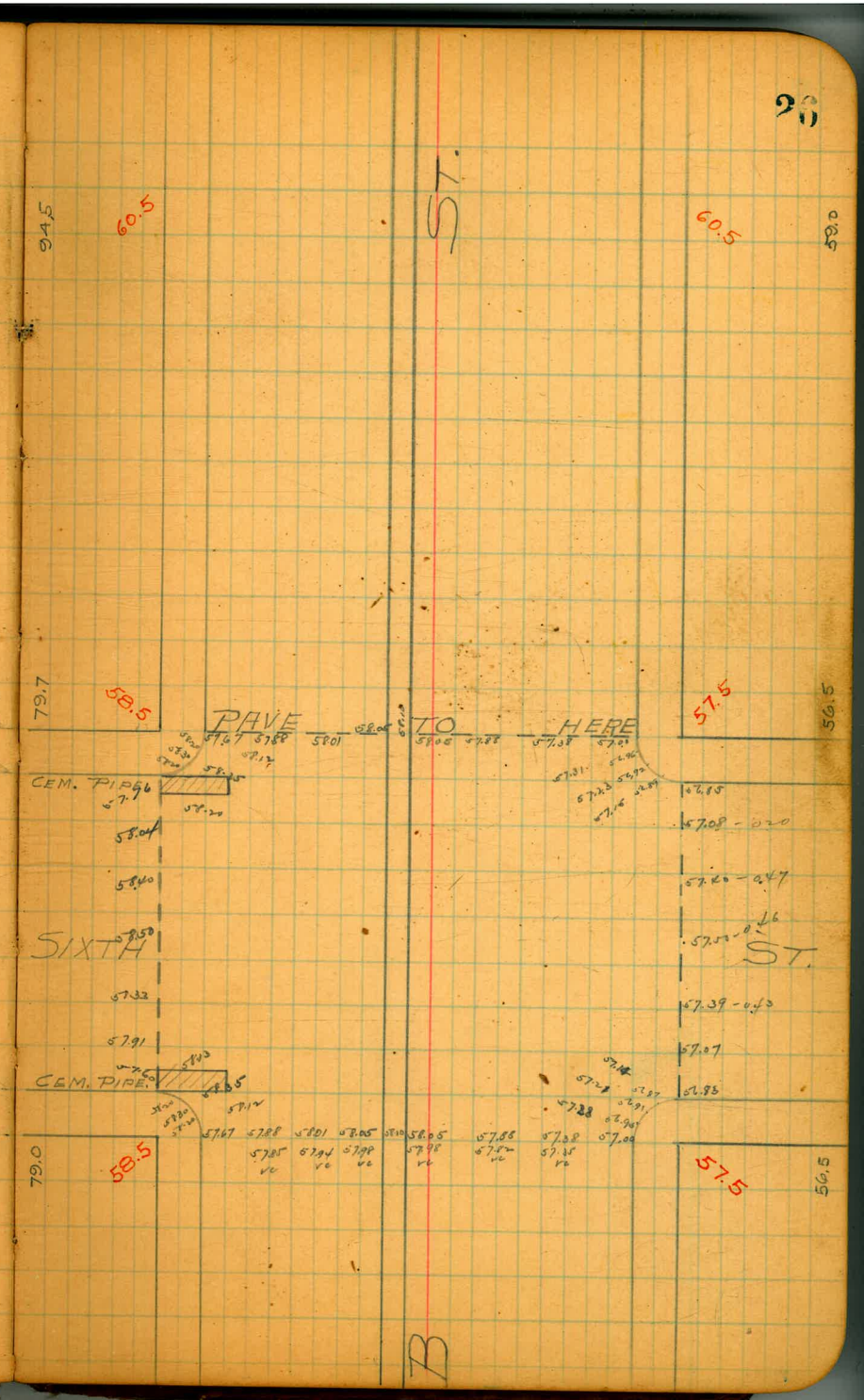
54.66 B.M. N.W. Fifth p/g

58.43 NW 6th Plg.



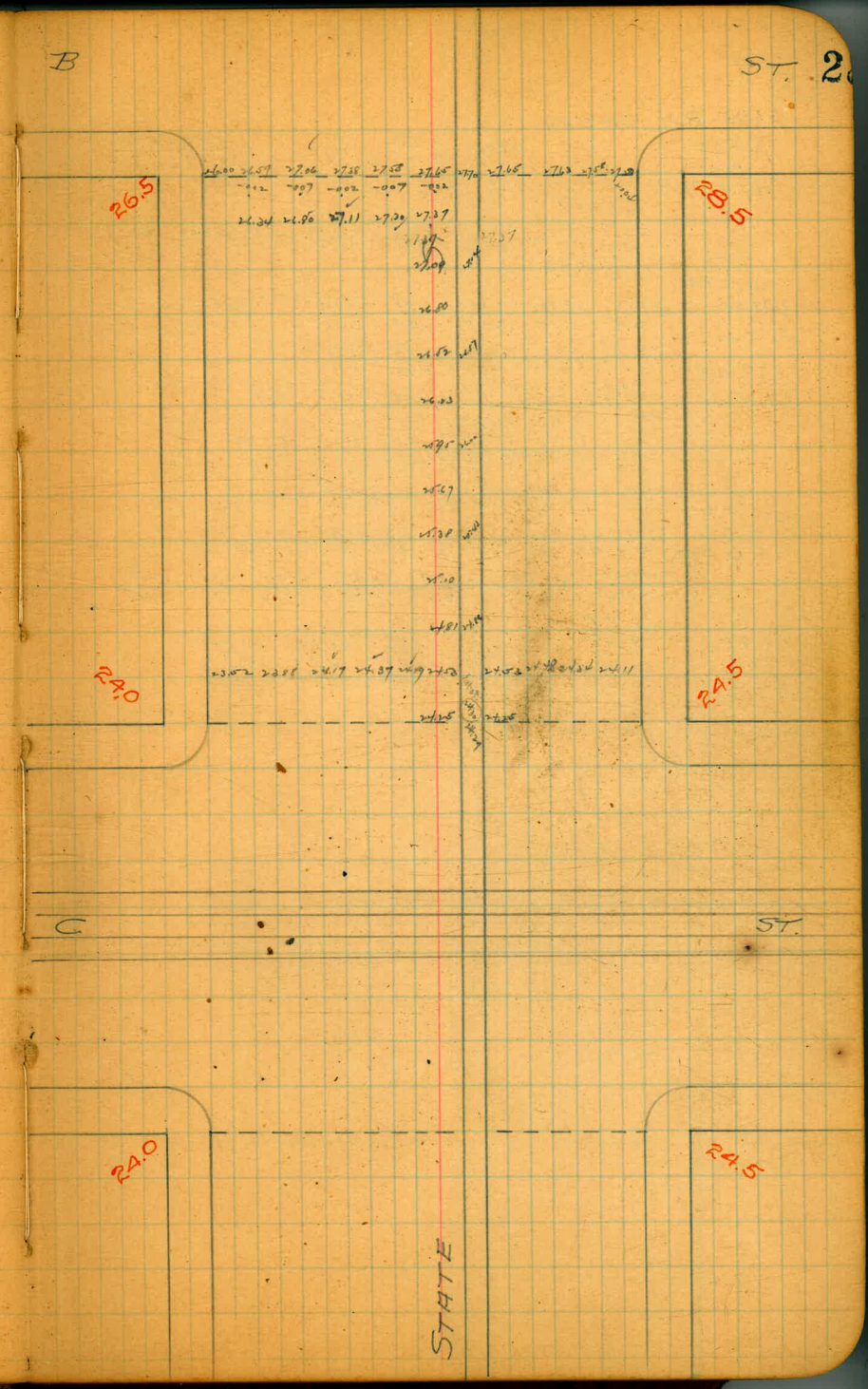
58.43 B.M. N.W. Sixth plg

61.36 B.M. S.E. 7th



23.97 B.M. N.W. C p/q

26.46 B.M. S.W. B p/q



21.75 B.M. SW.D p/g -

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 23.97 | 6.04 | 4.54 | 3.50 | 3.81 | 4.1 | 5.88 | 4.45 | |
| 3.20 | 21.13 | 22.64 | 23.67 | 23.36 | 23.06 | 21.29 | 22.72 | |
| 27.17 HI | 3.60 | 3.11 | 4.11 | 5.52 | | | | |
| | 23.57 | 24.06 | 23.16 | 24.27 | | | | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 23.97 | 23.97 BM | 23.95 | 23.91 | 23.78 | 22.93 | 23.06 | 23.10 |
| 5.82 | 3.28 | 3.30 | 3.34 | 3.47 | 4.32 | 4.19 | 4.15 |
| 29.79 HI | 27.25 HI | | | | | | |

| | | | | | |
|---|---|---|---|---|---|
| 23.97 BM. | 23.10 | 23.03 | 22.81 | 22.45 | 21.94 |
| 3.38 | 4.25 | 4.32 | 4.54 | 4.90 | 5.41 |
| 27.35 HI | | | | | |

Reset Grades 8-24-11
Davis Show Hangouts

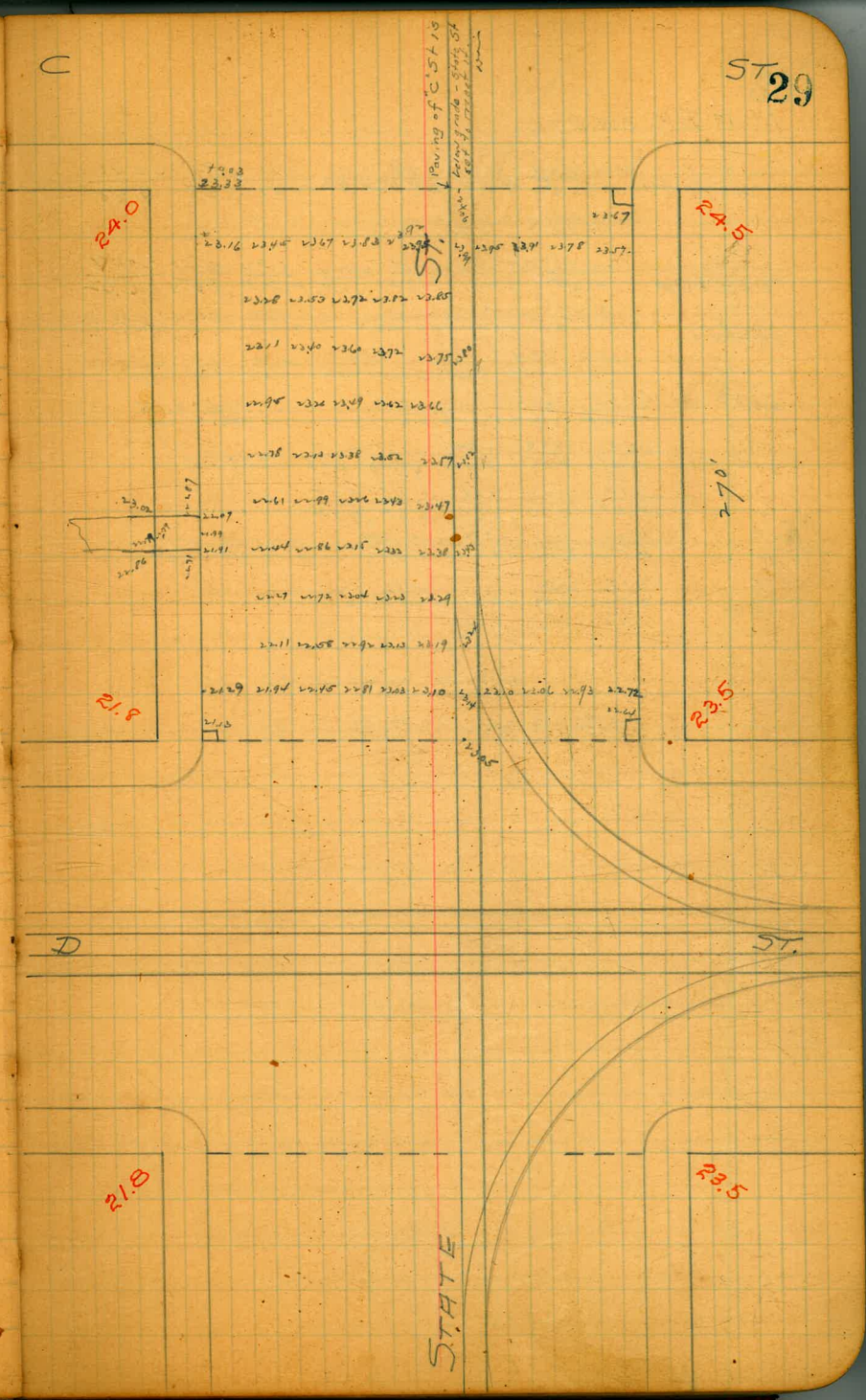
| | | | | | |
|---|---|---|---|---|---|
| | 23.45 | 23.67 | 23.83 | 23.92 | 23.95 |
| | 3.90 | 3.68 | 3.52 | 3.43 | 3.40 |
| 23.97 BM | 23.95 | 23.92 | 23.83 | 23.67 | 23.45 |
| 4.04 | 4.06 | 4.09 | 4.18 | 4.34 | 4.56 |
| 28.01 HI | | | | | |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 23.28 | 23.53 | 23.72 | 23.82 | 23.85 | | | | | | |
| 4.73 | 4.48 | 4.29 | 4.19 | 4.16 | | | | | | |
| 23.75 | 23.72 | 23.60 | 23.40 | 23.11 | 22.95 | 23.26 | 23.49 | 23.62 | 23.66 | |
| 4.26 | 4.29 | 4.41 | 4.61 | 4.90 | 5.06 | 4.76 | 4.52 | 4.39 | 4.35 | |
| 23.57 | 23.52 | 23.38 | 23.13 | 22.78 | 22.61 | 22.99 | 23.26 | 23.43 | 23.47 | |
| 4.44 | 4.49 | 4.63 | 4.88 | 5.23 | 5.40 | 5.02 | 4.75 | 4.58 | 4.54 | |
| 23.38 | 23.30 | 23.15 | 22.86 | 22.44 | 22.27 | 22.72 | 23.04 | 23.23 | 23.29 | |
| 4.63 | 4.68 | 4.86 | 5.15 | 5.57 | 5.74 | 5.29 | 4.97 | 4.78 | 4.72 | |

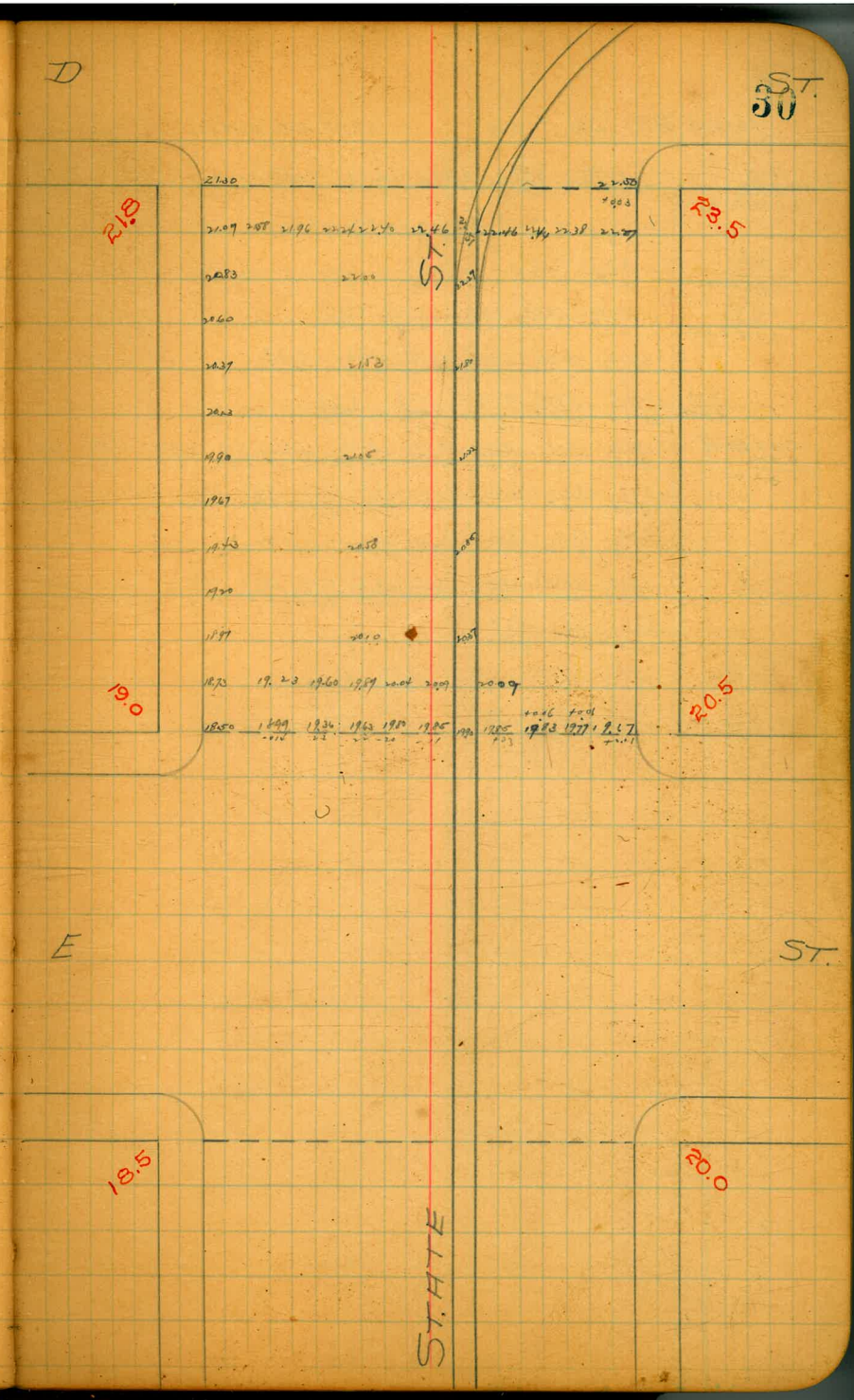
| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 23.97 | 23.19 | 23.13 | 22.92 | 22.58 | 22.41 | 22.94 | 22.45 | 22.81 | 23.03 | 23.10 |
| 4.40 | 4.82 | 4.88 | 5.09 | 5.43 | 5.90 | 6.07 | 5.56 | 5.20 | 4.98 | 4.91 |
| 28.37 HI | | | | | | | | | | |

| | | | | | | |
|---|---|---|---|---|---|---|
| 23.02 | 22.87 | 22.07 | 21.99 | 21.91 | 22.71 | 22.86 |
| 5.35 | 5.50 | 6.30 | 6.38 | 6.46 | 5.66 | 5.51 |

| | | | | | |
|---|---|---|---|---|---|
| 23.97 | 22.79 | 23.80 | 23.62 | 23.43 | 23.24 |
| 4.20 | 5.58 | 4.37 | 4.55 | 4.74 | 4.93 |
| 28.17 HI | 24.00 | 4.17 | 4.62 | 4.89 | 5.18 |

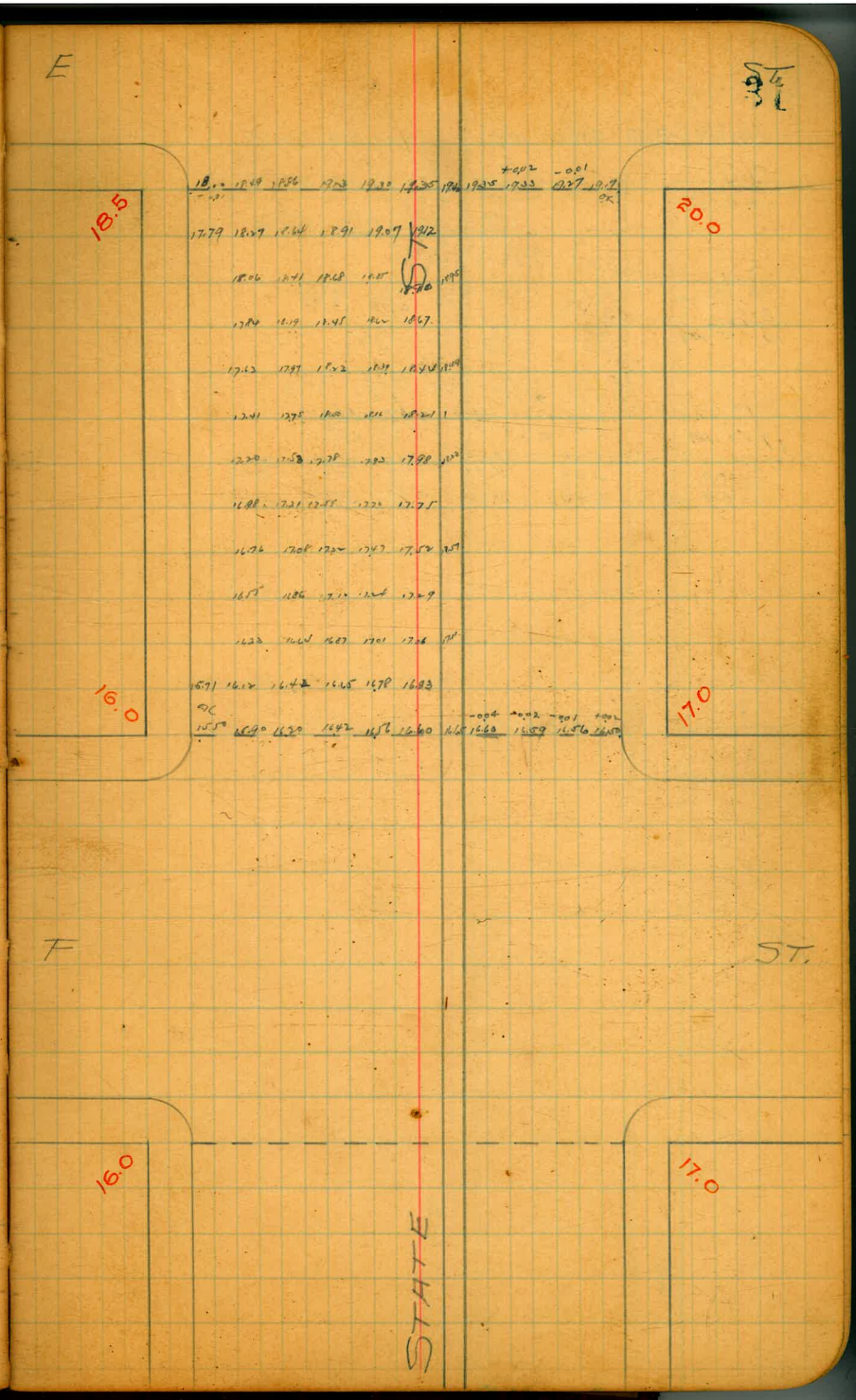


18.47 B.M. S.W.E plg.



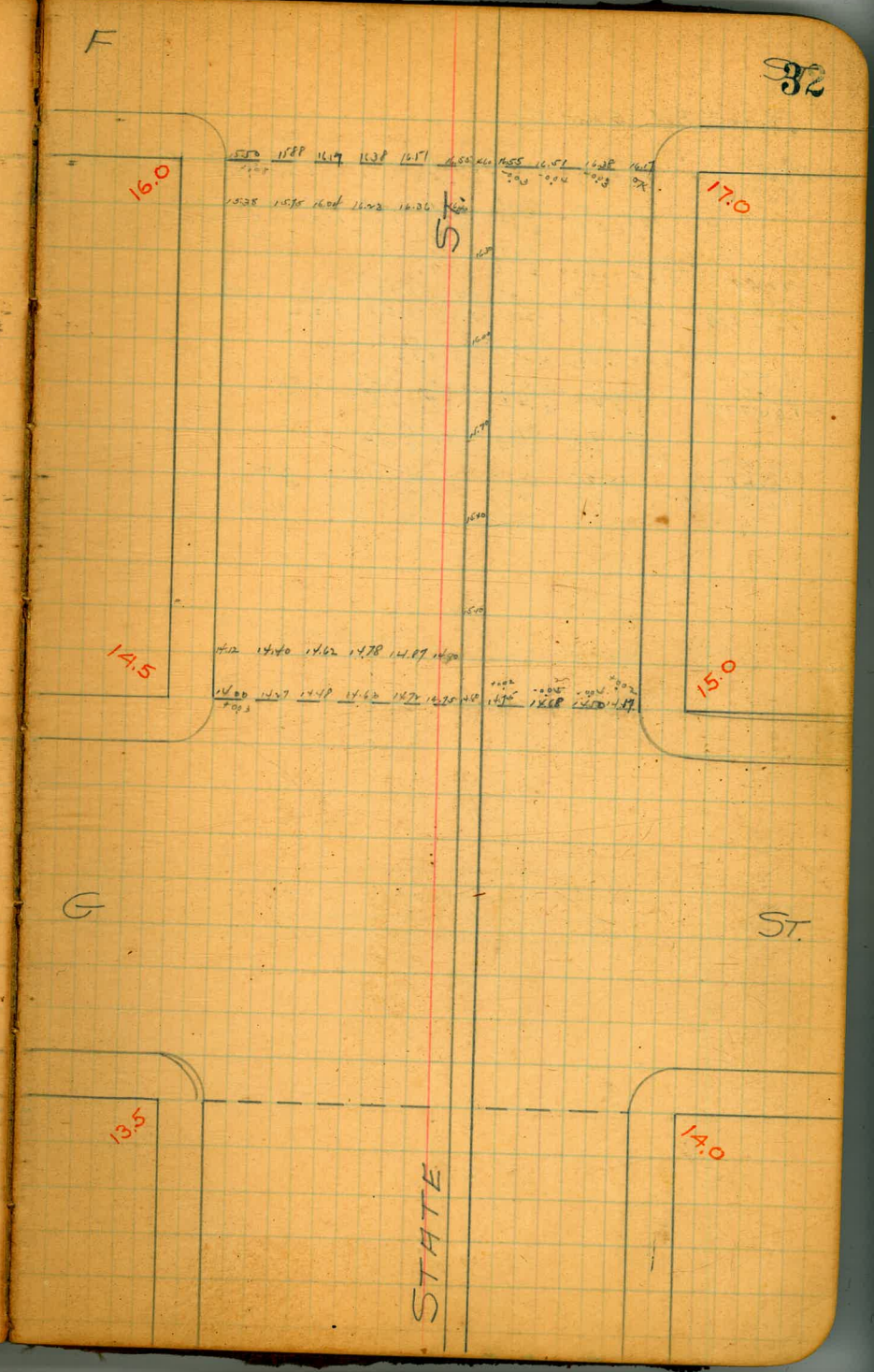
16.00 B.M. S.W. F plg

1847 BM. S.W.E



13.49 B.M. S.W.G. p/9 16.00 B.M. S.W.F.

| | | | | | |
|---|---|---|---|---|---|
| 16.00 | | R. | 4 | 5 | Gt. |
| 3.41 | | 4.64 | 4.78 | 4.95 | 5.22 |
| 19.41 H | | 14.77 | 14.63 | 14.46 | 14.19 |
| | | 2.89 | 2.94 | 3.06 | 3.24 |
| | | 16.52 | 16.47 | 16.35 | 16.17 |
| 16.00 | 3.59 | 5.14 | 6.15 | | |
| 3.17 | 15.58 | 14.03 | 13.02 | | |
| 19.17 H | 15.75 | 16.04 | 16.23 | 16.36 | 16.40 |
| 16.00 | 3.40 | 3.11 | 2.92 | 2.79 | 2.75 |
| 3.15 | | | | | |
| 19.15 H | 14.90 | 14.87 | 14.78 | 14.62 | 14.40 |
| | 4.25 | 4.28 | 4.37 | 4.53 | 4.75 |
| 16.00 | 15.75 | 16.04 | 16.23 | 16.36 | 16.40 |
| 3.89 | 4.14 | 3.85 | 3.66 | 3.53 | 3.49 |
| 19.89 H | 14.40 | 14.62 | 14.78 | 14.87 | 14.90 |
| | 5.49 | 5.27 | 5.11 | 5.02 | 4.99 |
| 16.00 | 16.30 | 16.00 | 15.70 | 15.40 | 15.10 |
| 4.87 | 4.57 | 4.87 | 5.17 | 5.47 | 5.77 |
| 20.87 H | 17 | 17 | 17 | 17 | 17 |
| | 4.74 | 5.04 | 5.34 | 5.64 | 5.94 |



8.465 B.M. S.W. H plg

13.49 Bm
1.74
15.23 H.I.

1.48 2.03 6.86 8.71 6.13 9.10 9.51 9.92 10.32 10.73
13.75 13.20 8.37 6.53 9.10 6.13 5.72 5.31 4.91 4.50

11.14 11.54 11.94 12.36 12.76 1.80 1.63 1.56
4.09 3.69 3.29 2.87 2.47 13.43 13.60 13.67

8.91 9.03 9.07
6.32 6.20 6.16

13.49
1.90
15.39 H.I.

2.11 1.93 1.78 1.70 1.71 7.17 6.28
13.28 13.46 13.61 13.69 13.68 8.22 9.11

9.07 9.04 8.93 8.76 8.53
6.32 6.35 6.46 6.63 6.86

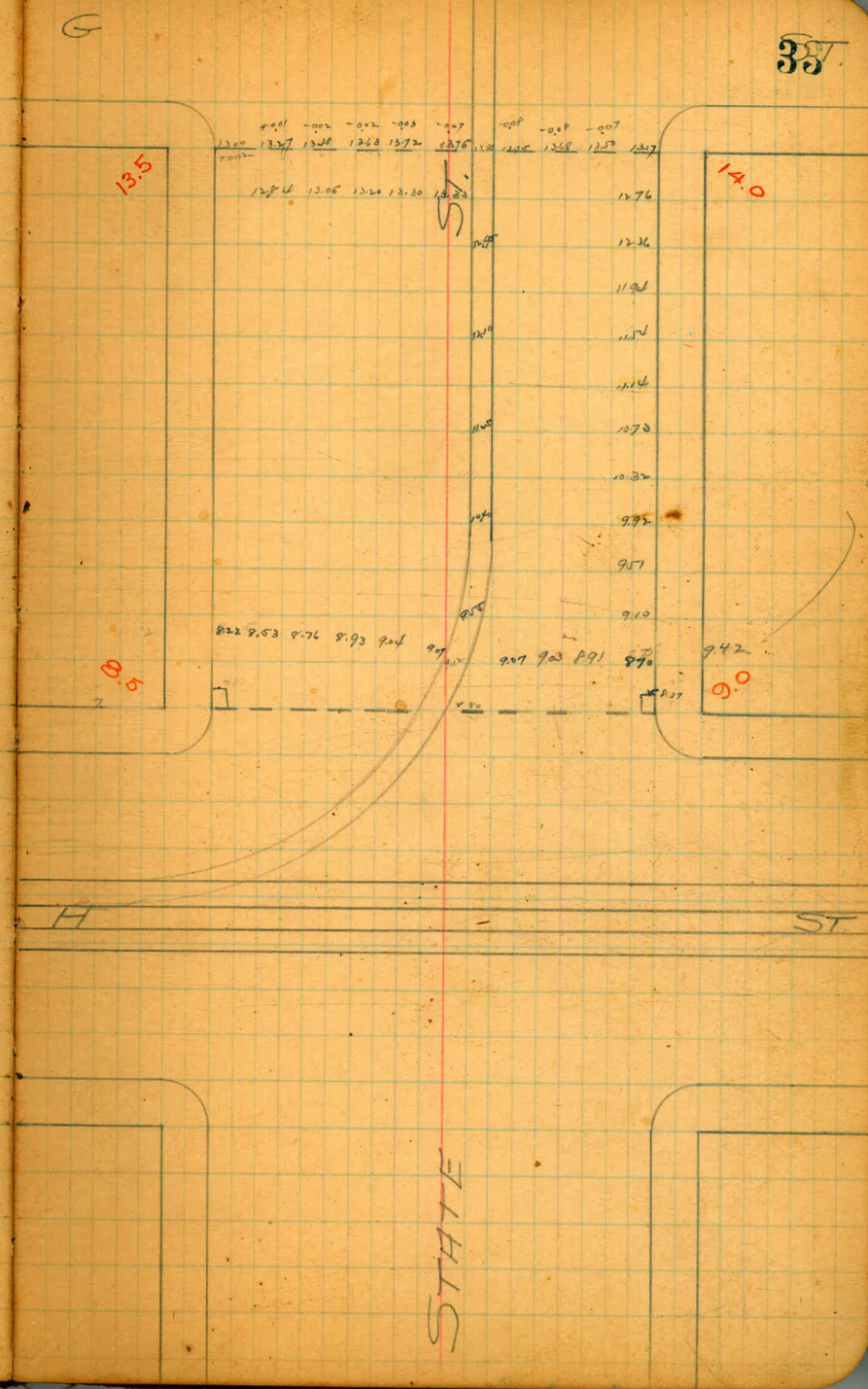
13.49
3.08
16.57 H.I.

13.33 13.30 13.20 13.05 12.84
3.24 3.27 3.37 3.52 3.73

9.07 9.04 8.93 8.76 8.53
7.50 7.53 7.64 7.81 8.04

13.49
3.28
16.77 H.I.

12.95 12.10 11.25 10.40 9.55
3.82 4.67 5.52 6.37 7.22
.17 .17 .17 .17 .17
3.99 4.84 5.69 6.54 7.39



31.46 B.M. N.W. C. p/g

5.42
36.88

3116 3208
5.72 4.80

35.50 B.M. S.W.B p/g.

35.50 BM S.W.B
5.00
40.83

3483
6.00

31.46 Bm
5.11
36.57
3

3116
4.41

3149 3198
5.08 4.59

3229 3234
4.28 4.23

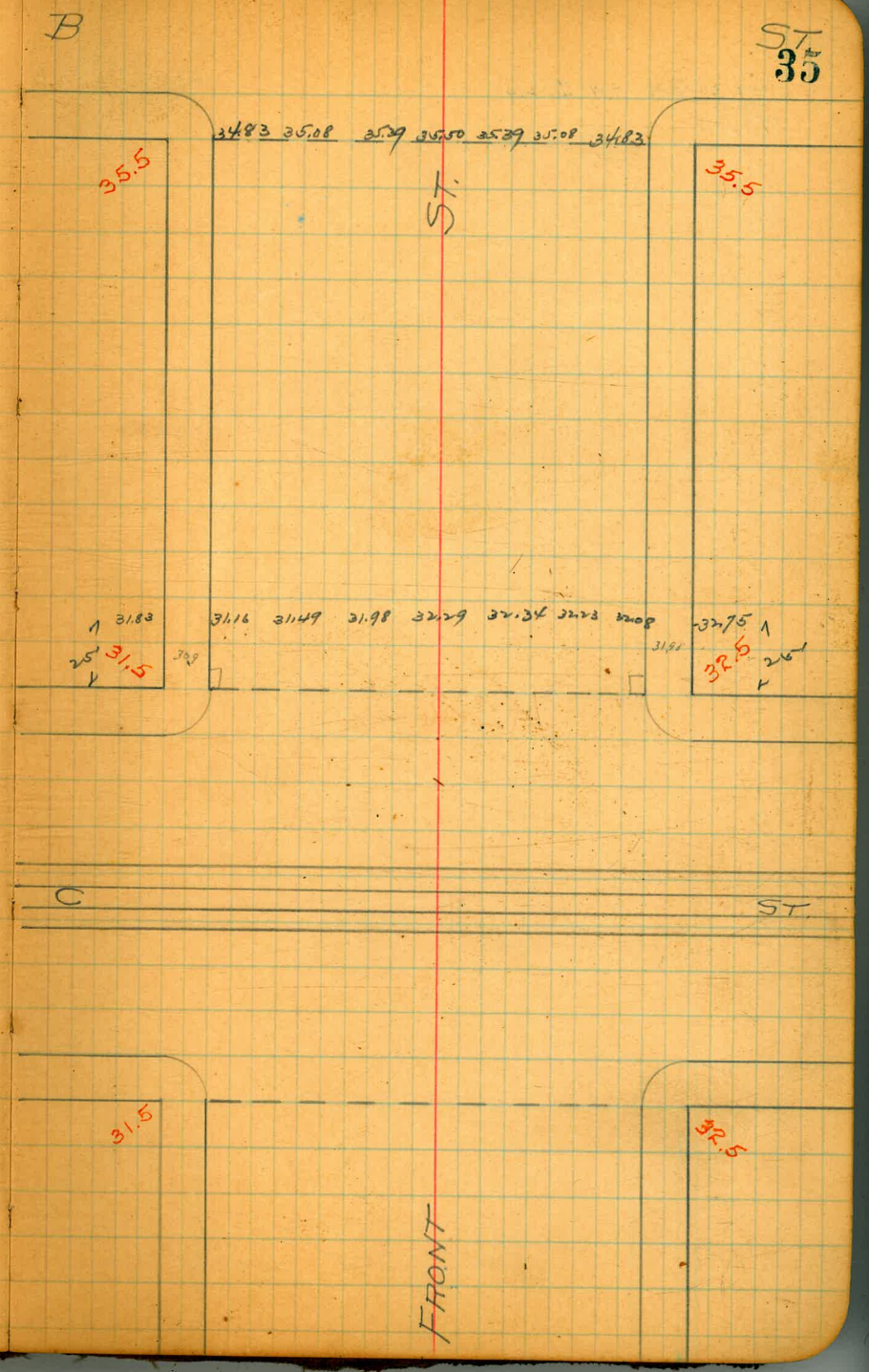
3223 3208
4.34 4.49

3483
4.77

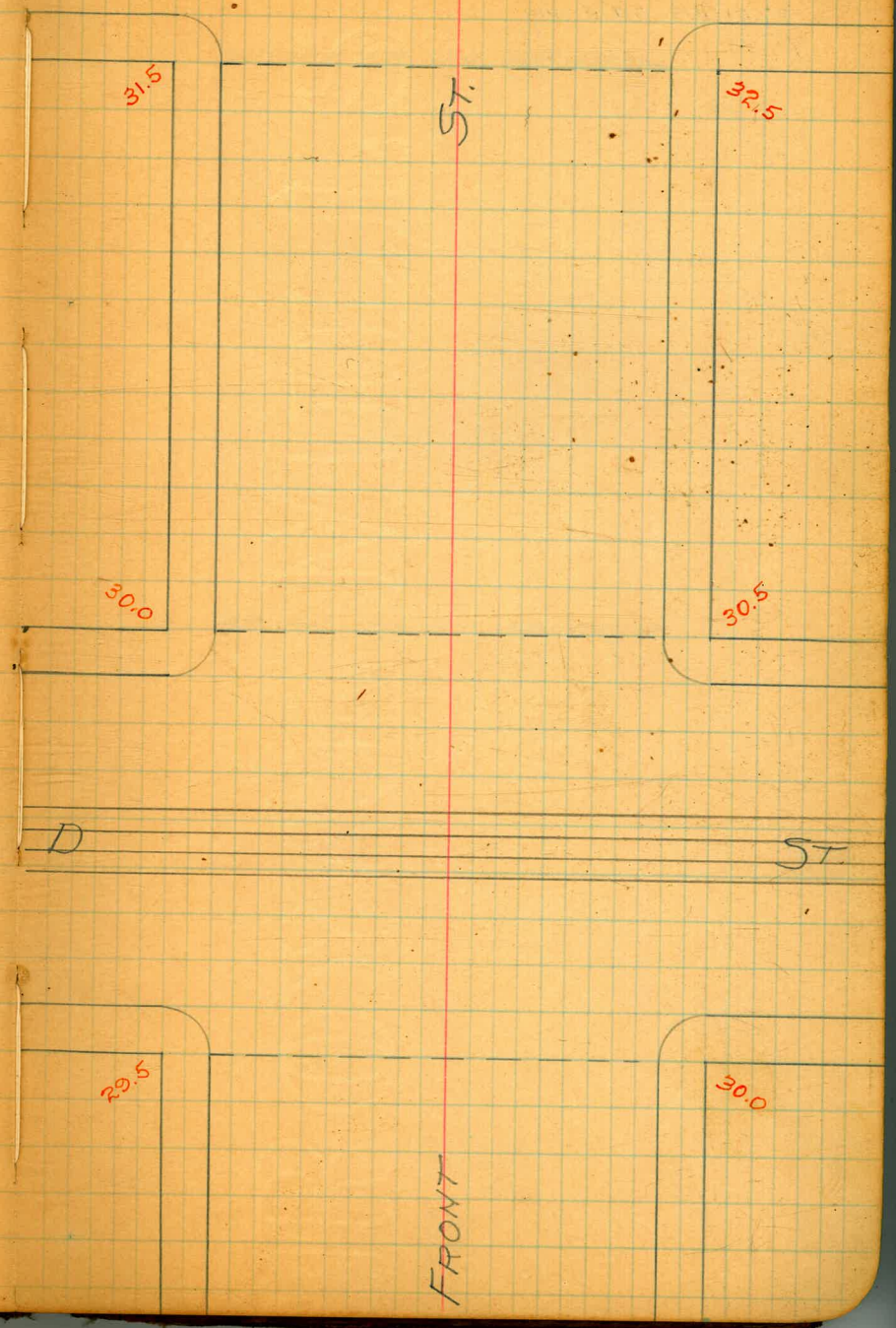
3508 3539
4.52 4.21

3550
4.10

3550 Bm
4.10
39.60



29.34 B.M. S.W. D. p/g



27.01 B.M. S.W. E p/g
4.95
31.96

27.00
.66
26.39
35.62
27.50
5.46

28.00
.50
27.50
4.46

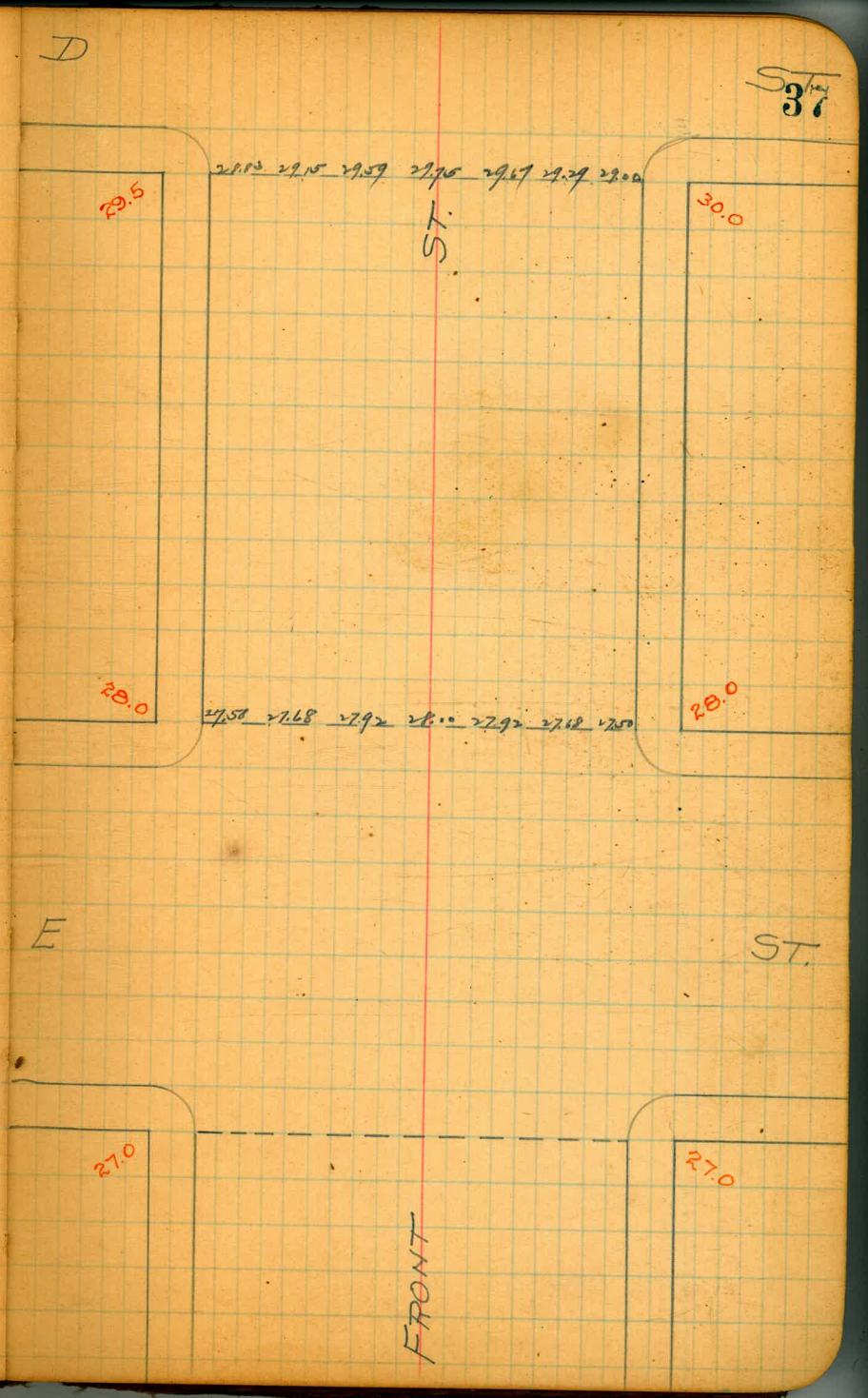
27.01 Bm
5.91
32.96

27.01 Bm
5.93
32.94

27.50
5.44
28.83
6.02

27.68 27.92 28.00
5.26 5.02 4.94
29.15 29.59 29.75 29.67 29.29 29.00
5.70 5.26 5.10 5.18 5.56 5.85

29.04 Bm
5.57
34.85



18.49 B.M. S.W.F plg
515
23.64 HS

1850
66
1784
5.80

1900
66
1834
5.30

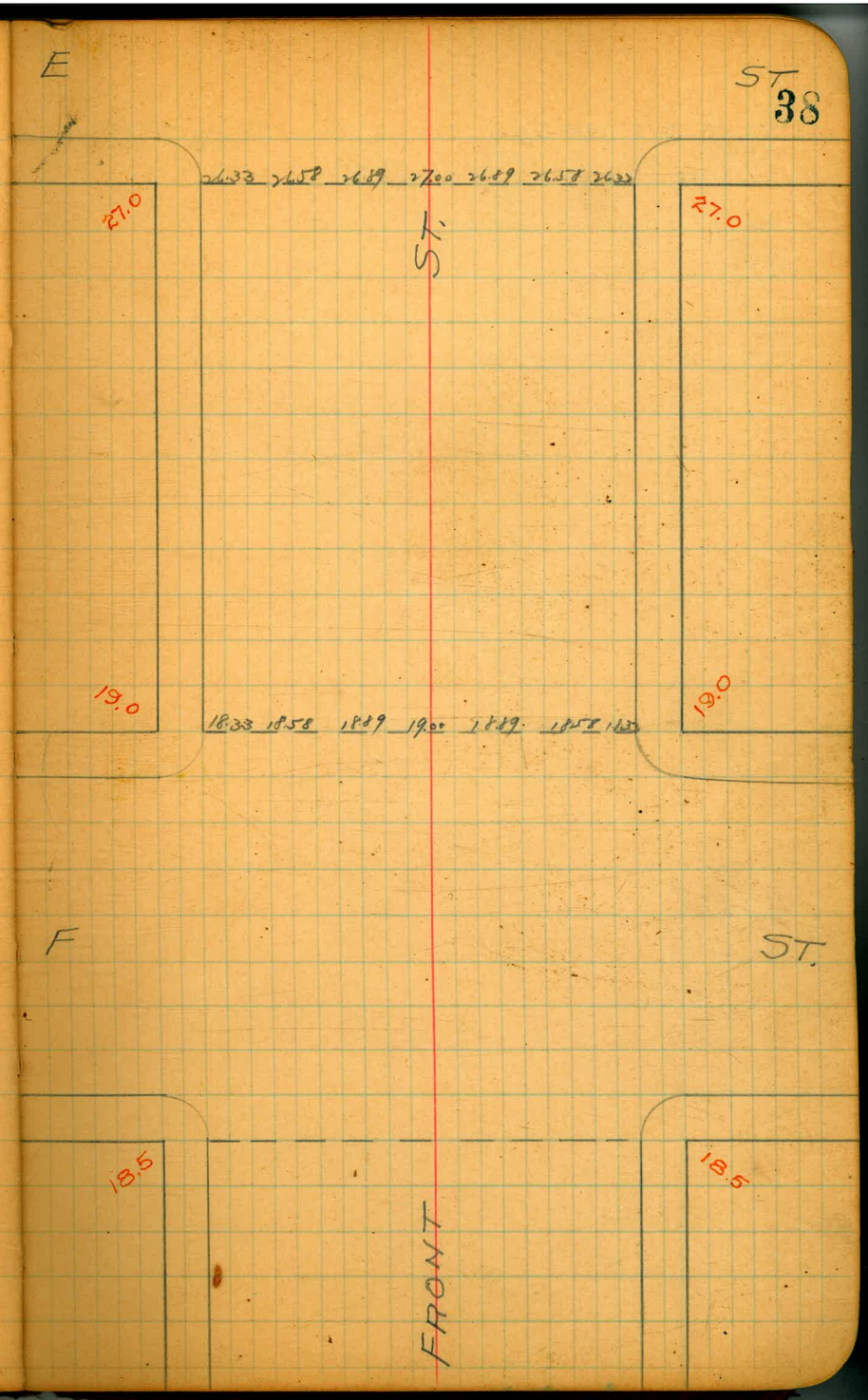
2701 Bm
503
32.04
2689
5.15

1849
545
2394

27.01
518
32.19

| 1833 | 1858 | 1889 | 1900 |
|---|---|---|---|
| 5.61 | 5.36 | 5.05 | 4.94 |
| 2633 | 2658 | 2689 | 2700 |
| 5.86 | 5.61 | 5.30 | 5.19 |





16.43 B.M. S.W. G plg
4.34
20.77 14

7.86 16.50 17.50
15.84 16.66
4.83 3.93

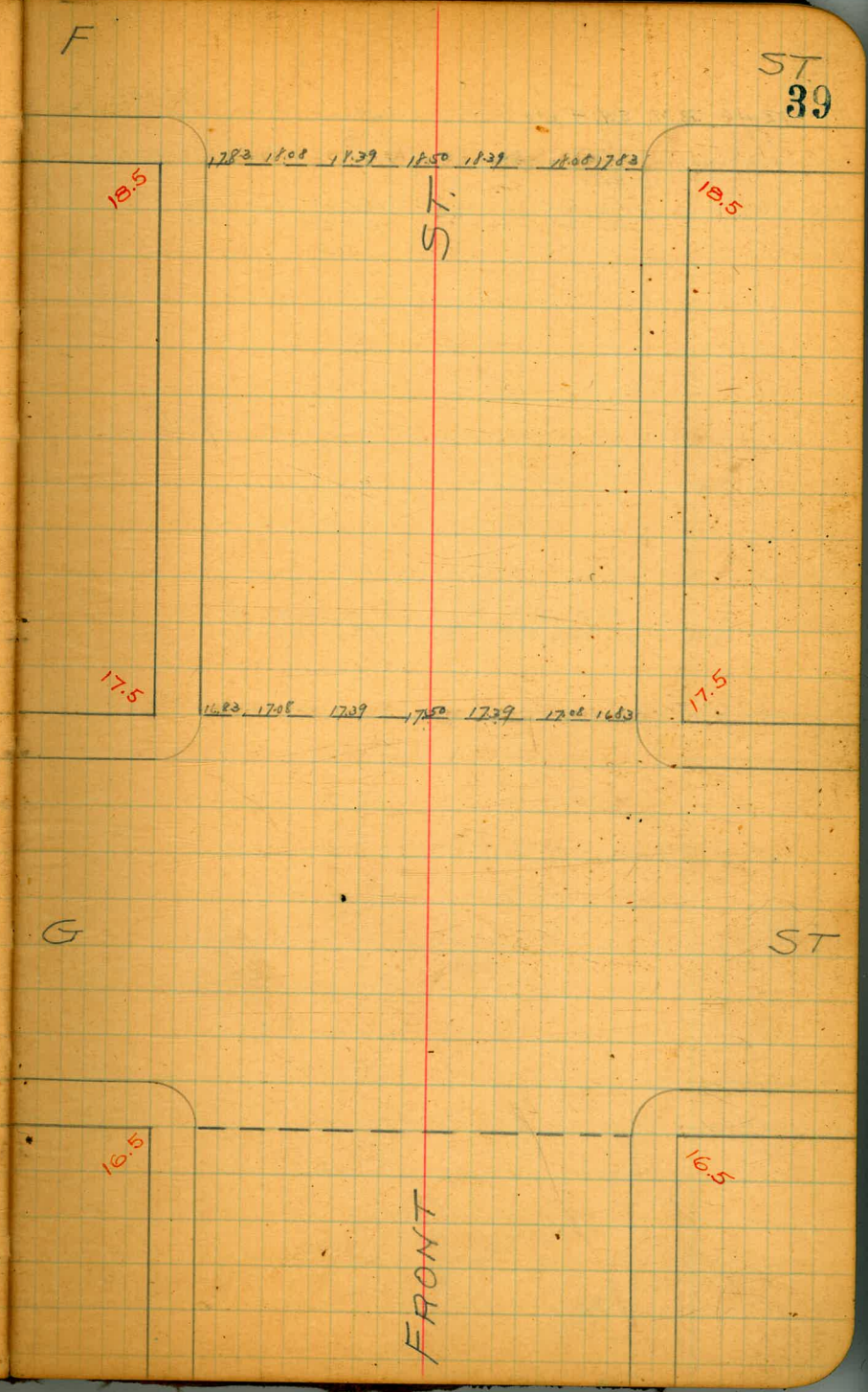
16.43
5.25
21.68

16.83 17.08 17.39 17.50
4.85 4.60 4.29 4.18

18.49
4.50
22.99

17.83 18.08 18.39 18.50
5.16 4.90

18.39 18.50
4.60 4.49



12.46 B.M. S.W. H pla
4.78
17.24

1250
66
1184
5.40

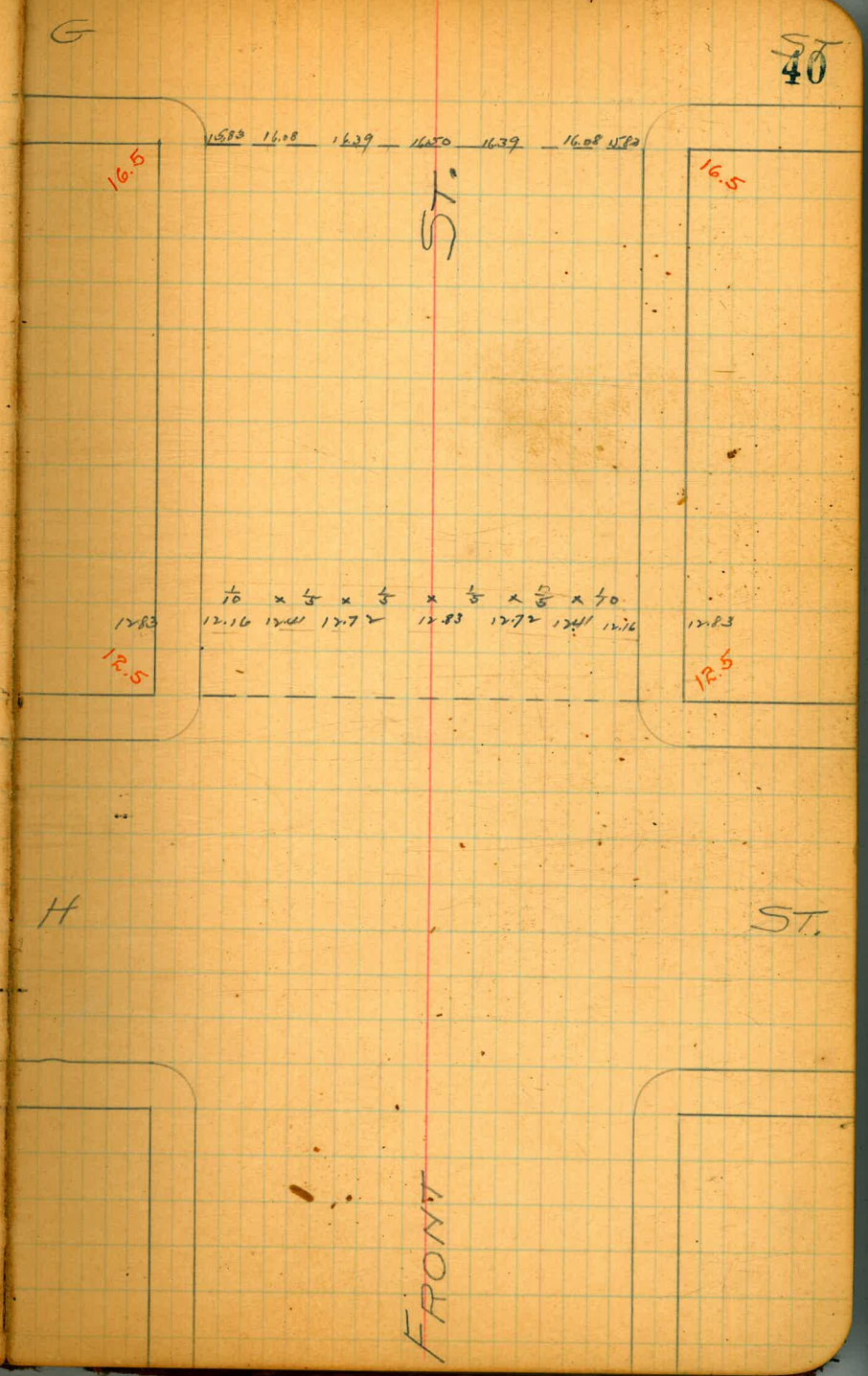
1643 Bm G
5.30
21.73

1583 1604 1639 1650
5.90 5.65 5.34 5.23

12.46
4.63
17.09

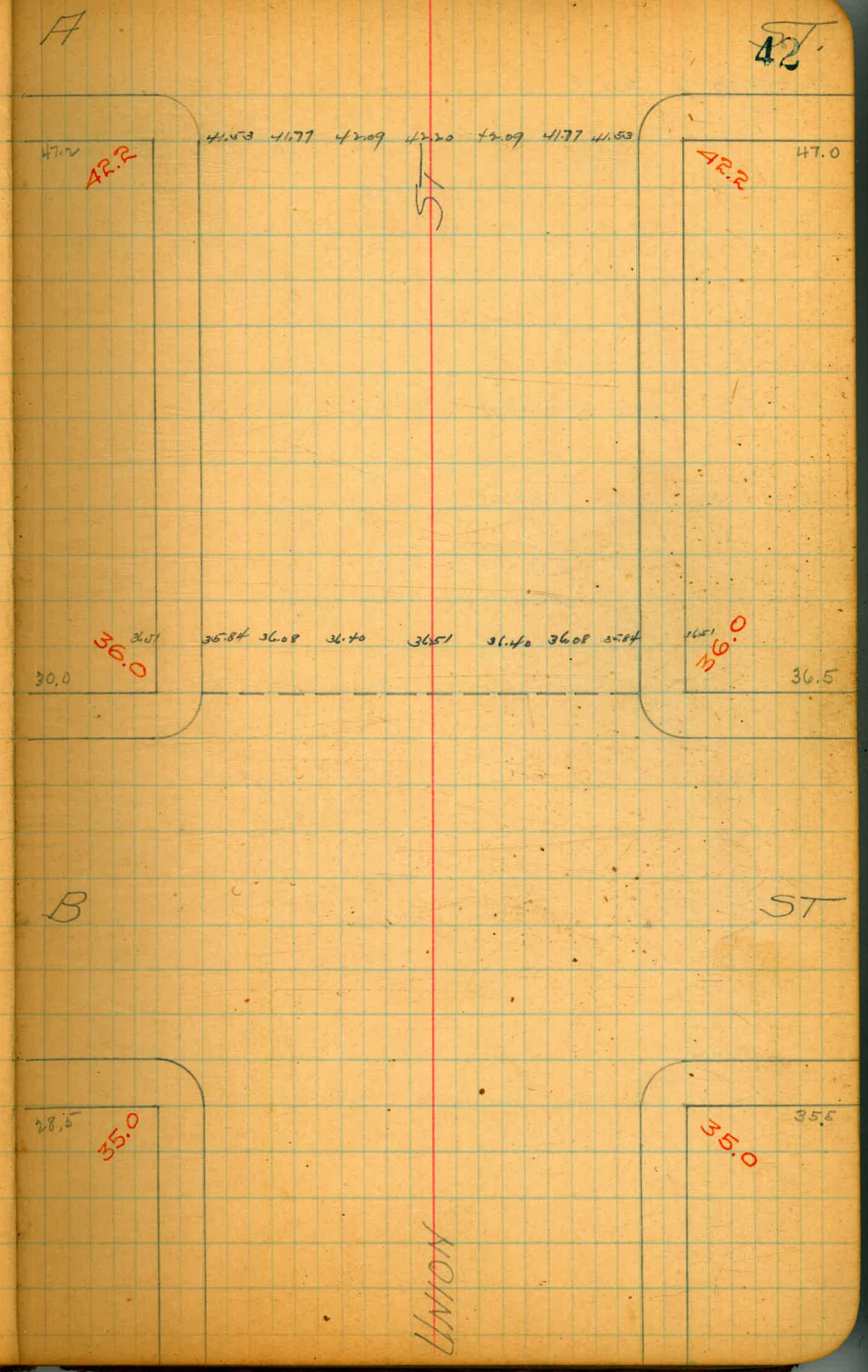
12.16 12.41 12.72 12.83
4.93 4.68 4.37 4.26





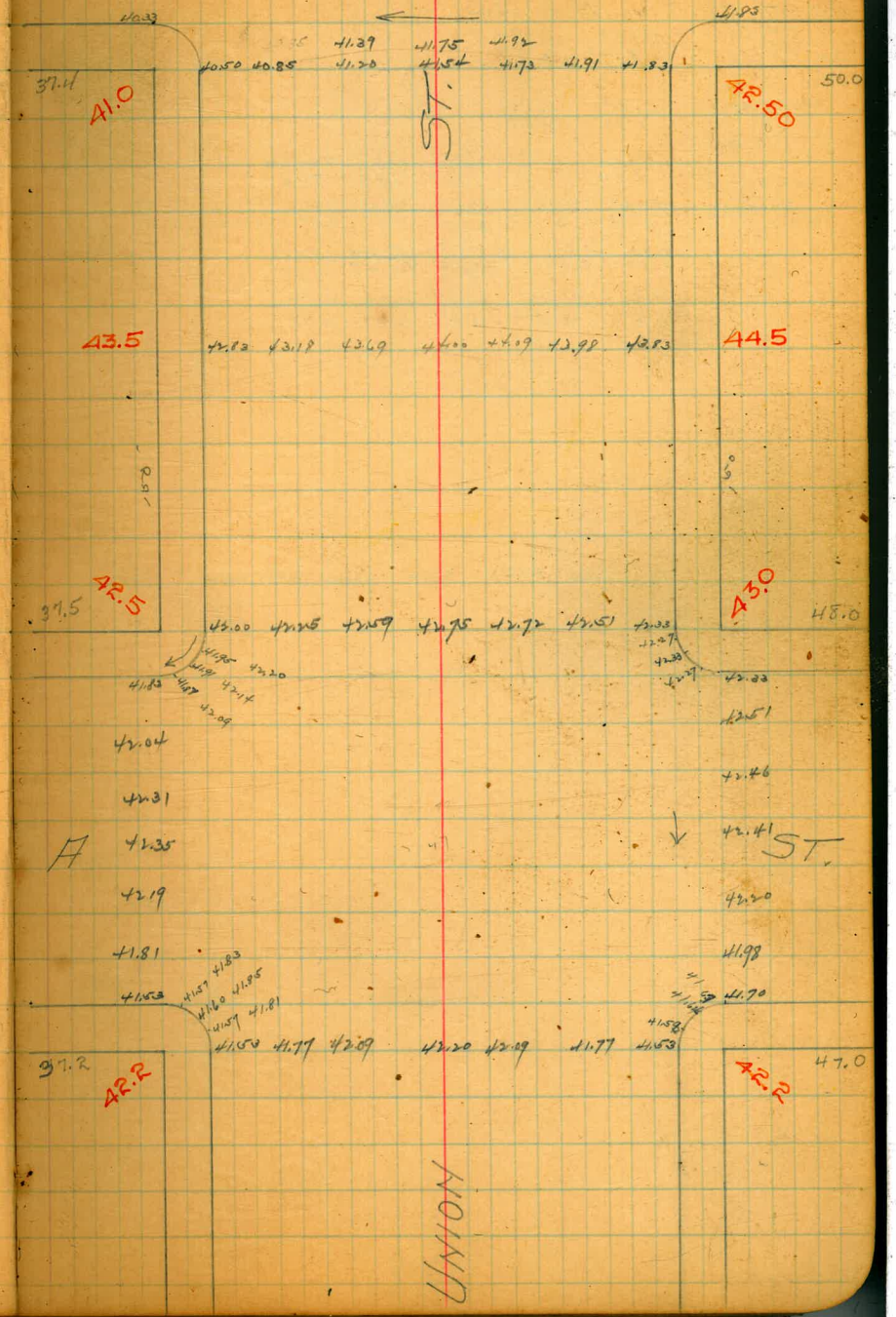
34.93 B.M. S.W. B. p/9
5.65 35.84
40.58 H1. 4.74

34.93 36.08 36.40 36.51 41.77 42.09 42.20
7.64 6.49 6.17 6.06 0.80 0.48 0.37
42.57 H1



42.38
~~41.84~~ B.M. N.W.A plg.

ASH



40.97 B.M. N.W. Ash p/g
7.74
48.71 Hi

40.50 41.83
8.21 6.88

40.97 BM.
5.70
46.67 Hi

40.84 42.16
5.83 4.51

41.00 41.70 40.89 40.67 40.40
4.56 40.86 4.67 4.89 5.16

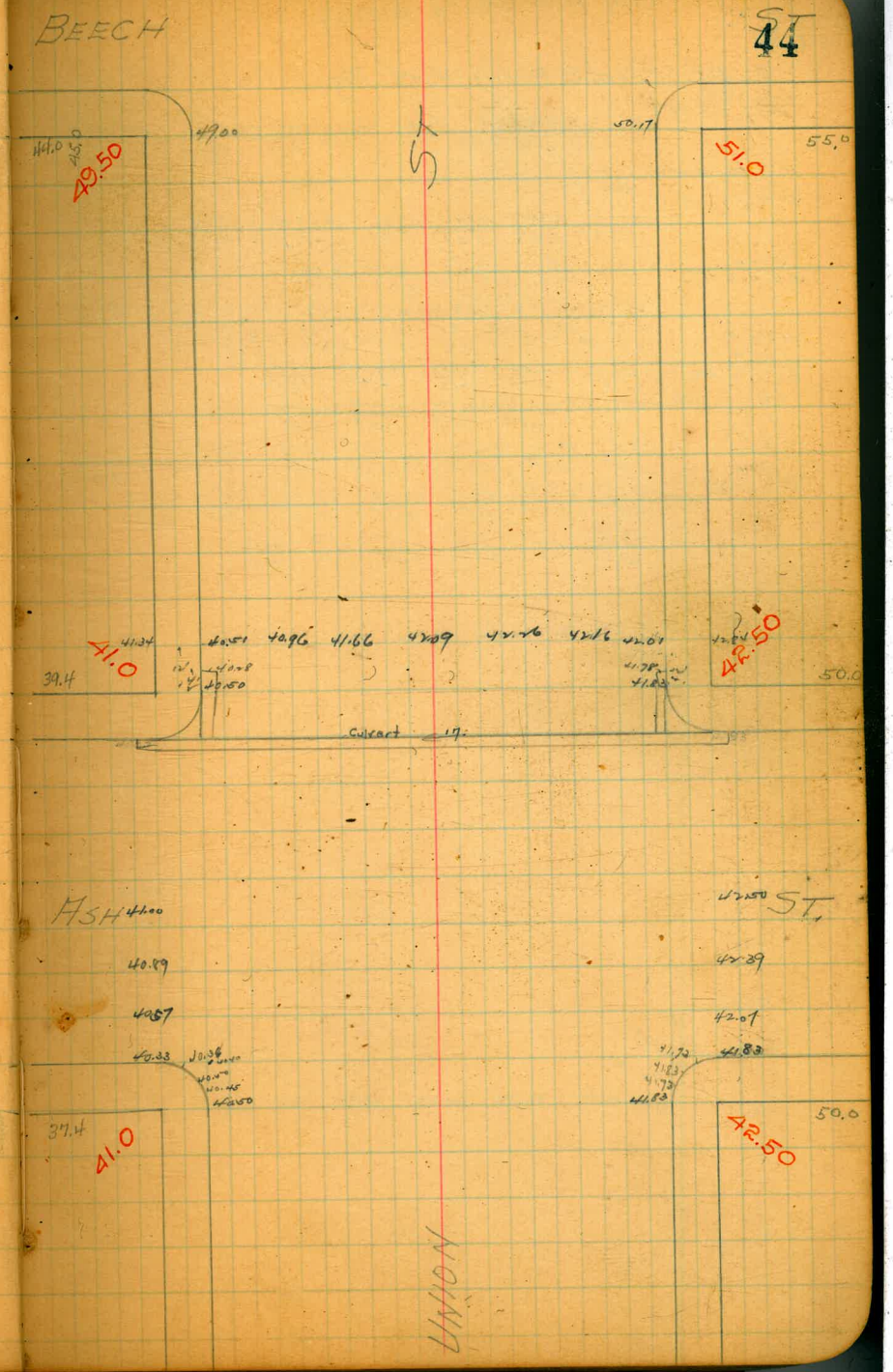
40.97
4.59
45.56 Hi

42.07 42.39 42.50 40.45 40.50 40.36 40.33
3.49 3.17 3.06 5.11 5.06 5.20 5.23

41.73 41.83 40.57 5.28 3.78
3.83 3.73 4.99 40.28 41.78

40.96 41.66 42.09 42.26 42.16
4.60 3.90 3.47 3.30 3.40





49.42 - BM N.W Union Beech

56.95 Front & Beech NW Plg.
63
57.28 HI

7.86 49.00 50.17 50.30 50.38 50.25 49.91 49.35
49.42 8.28 7.11 6.98 6.90 7.03 7.37 7.93

49.42 BM
6.08
55.50 HI

6.82 5.36 53.33 52.83
48.68 50.14 2.17 2.67

48.83 48.87 48.91 48.95 50.21 50.25 50.29 50.33
5.63 5.59 5.55 5.51 4.25 4.21 4.17 4.13

49.42
5.04
54.46 HI

50.30 38 25 49.91 9.35
4.16 4.08 4.21 4.55 5.11

50.37 44 51 58 49 1.00 48 66 53 11 49.39
4.09 4.02 3.95 3.88 3.57 3.46 3.98 3.80 3.93 4.35 5.07

49.50 39 9.08 9.15 9.22 9.29 50.17 49.50
4.96 5.07 5.38 5.31 5.24 5.17 4.29 4.96

49.42
6.83
56.25 HI

53.13 53.54 53.75 53.74 53.53
3.12 2.71 2.50 2.51 2.72

64.02 BM
1.97
65.99

62.68 63.19 63.50 63.59 63.48
3.31 2.80 2.49 2.40 2.51

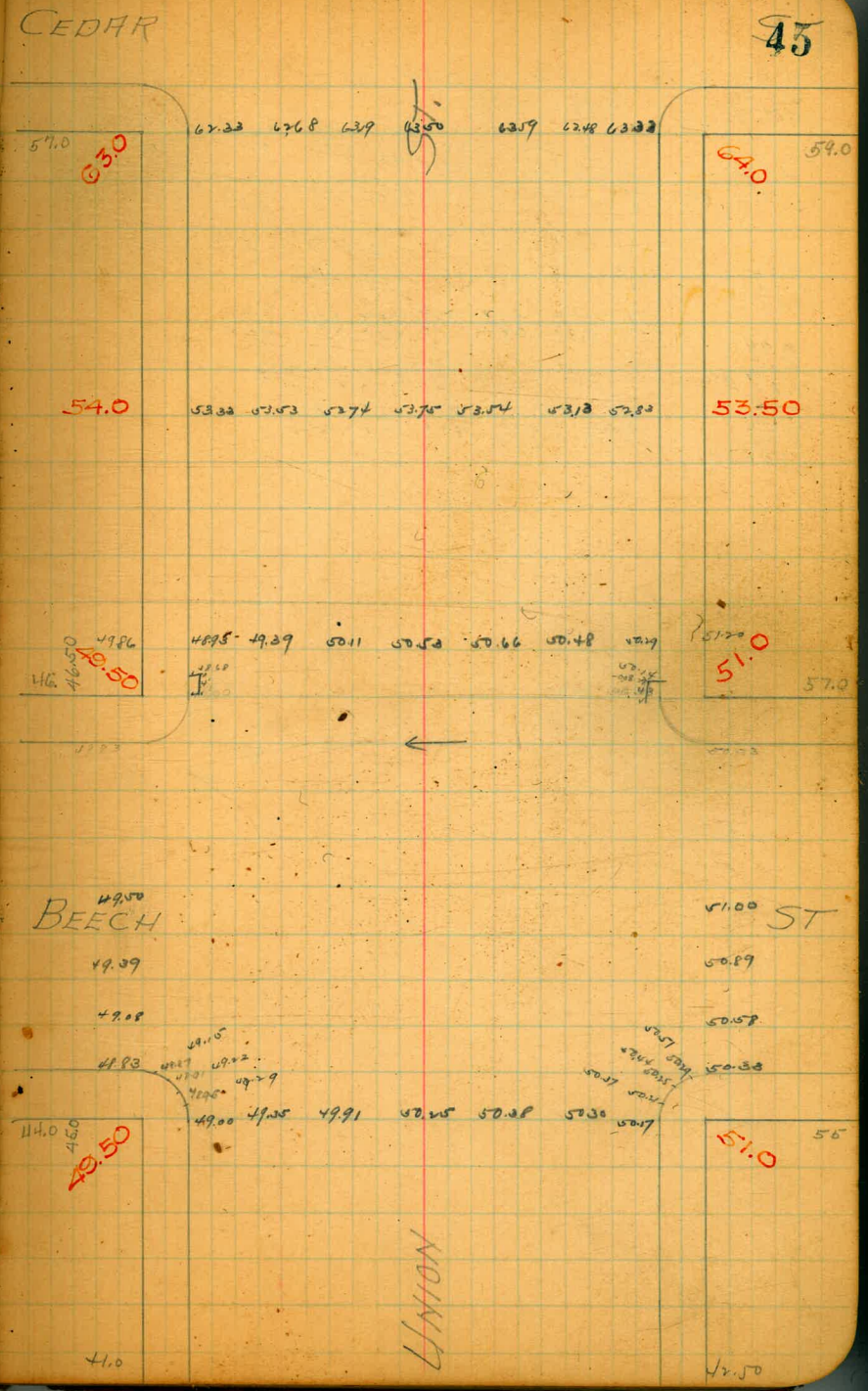
49.42
5.74
55.16 HI

49.39 50.11 50.53 50.66 0.48 51.0 0.89 0.30 50.38
5.97 5.05 4.63 4.50 4.68 4.16 4.27 4.86 4.78

50.25 49.91 49.35 49.29 49.22 49.15 49.08
4.91 5.25 5.81 5.87 5.94 6.01 6.08

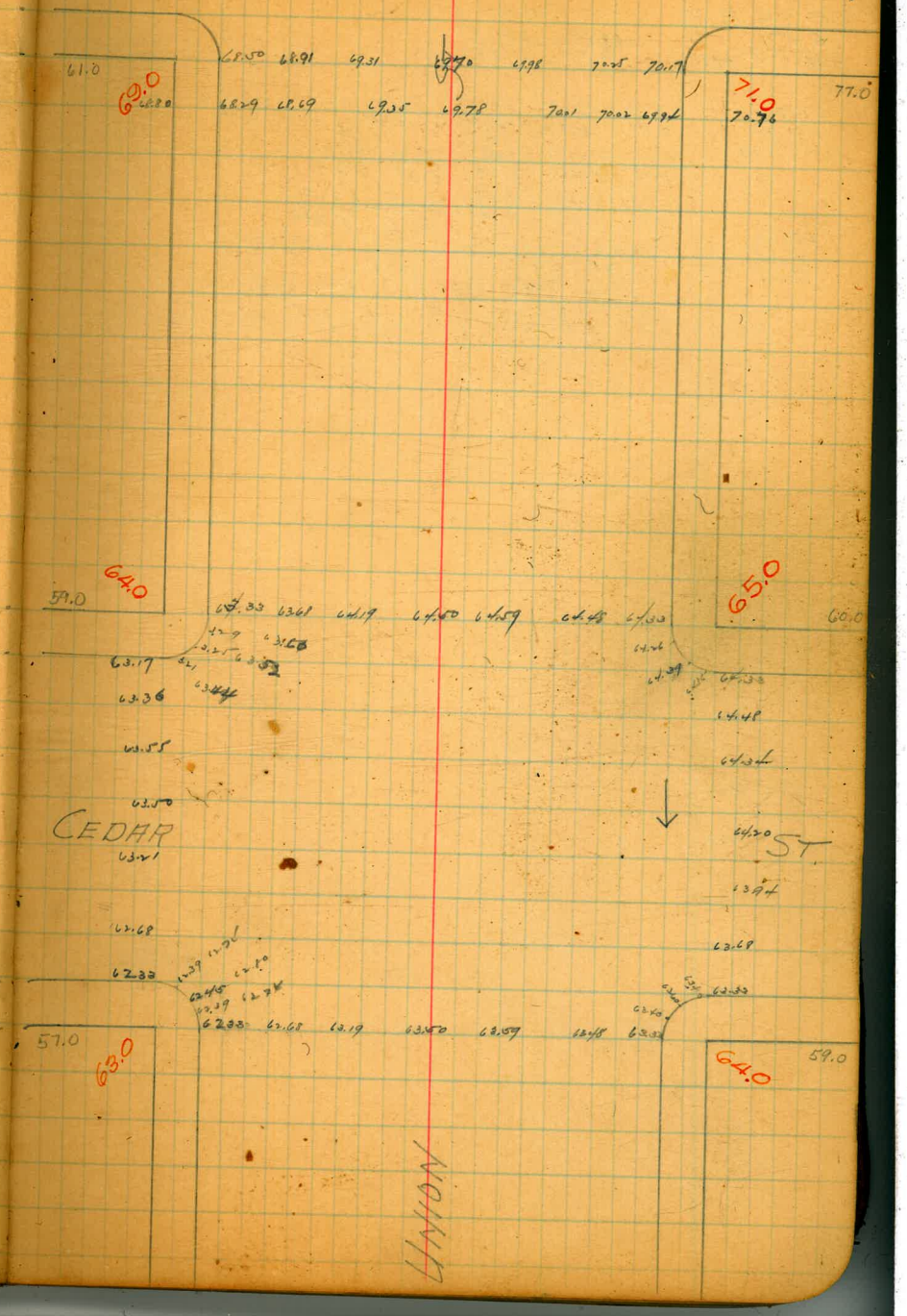
49.39 3.53 3.74 3.75 3.54 3.13
5.77 1.63 1.42 1.41 1.62 2.03





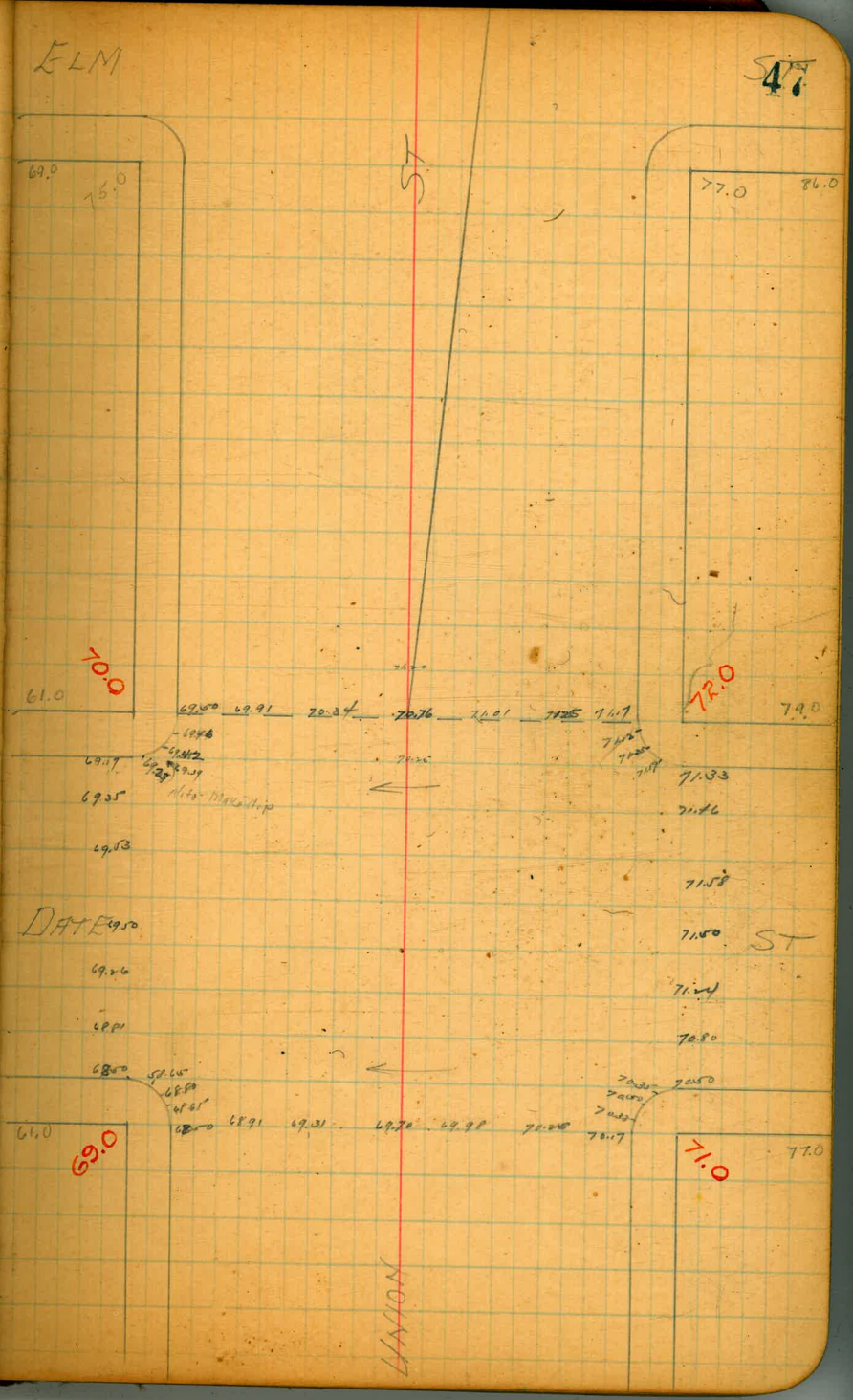
64.02 B.M. N.Y. CEDAR dig

DATE



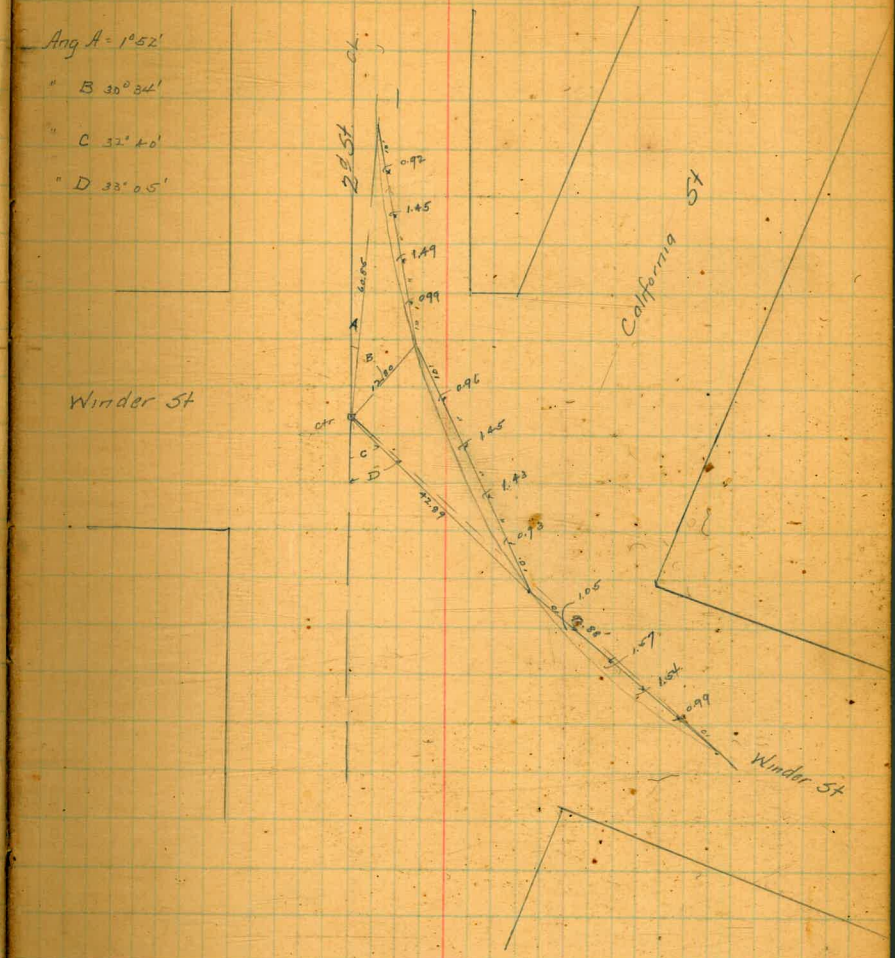
68.99 B.M. S.W. DATE p/g

ELM

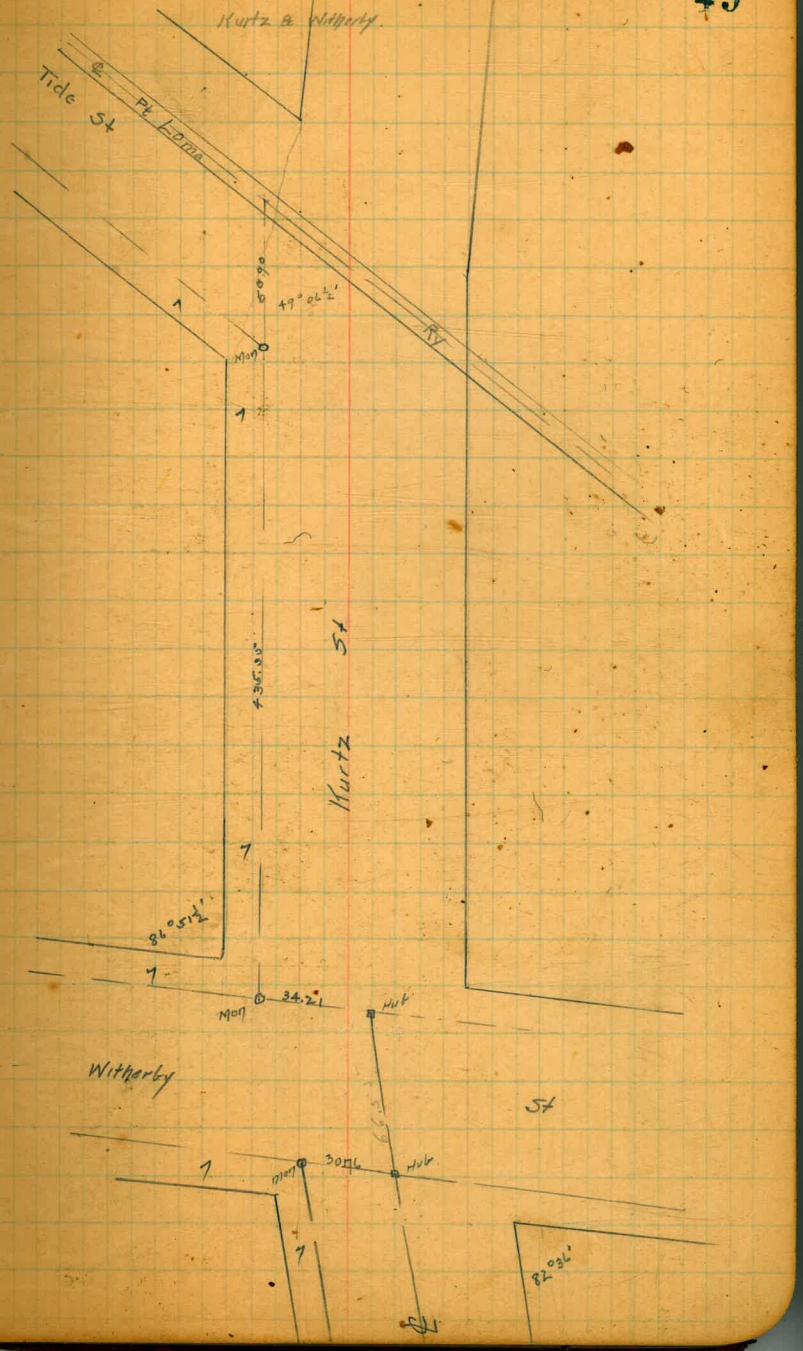


Location of Outside edge of outside rail of Curve at 2nd & Winder Sts

Ang A = 1°52'
" B 35° 34'
" C 32° 40'
" D 33° 05'

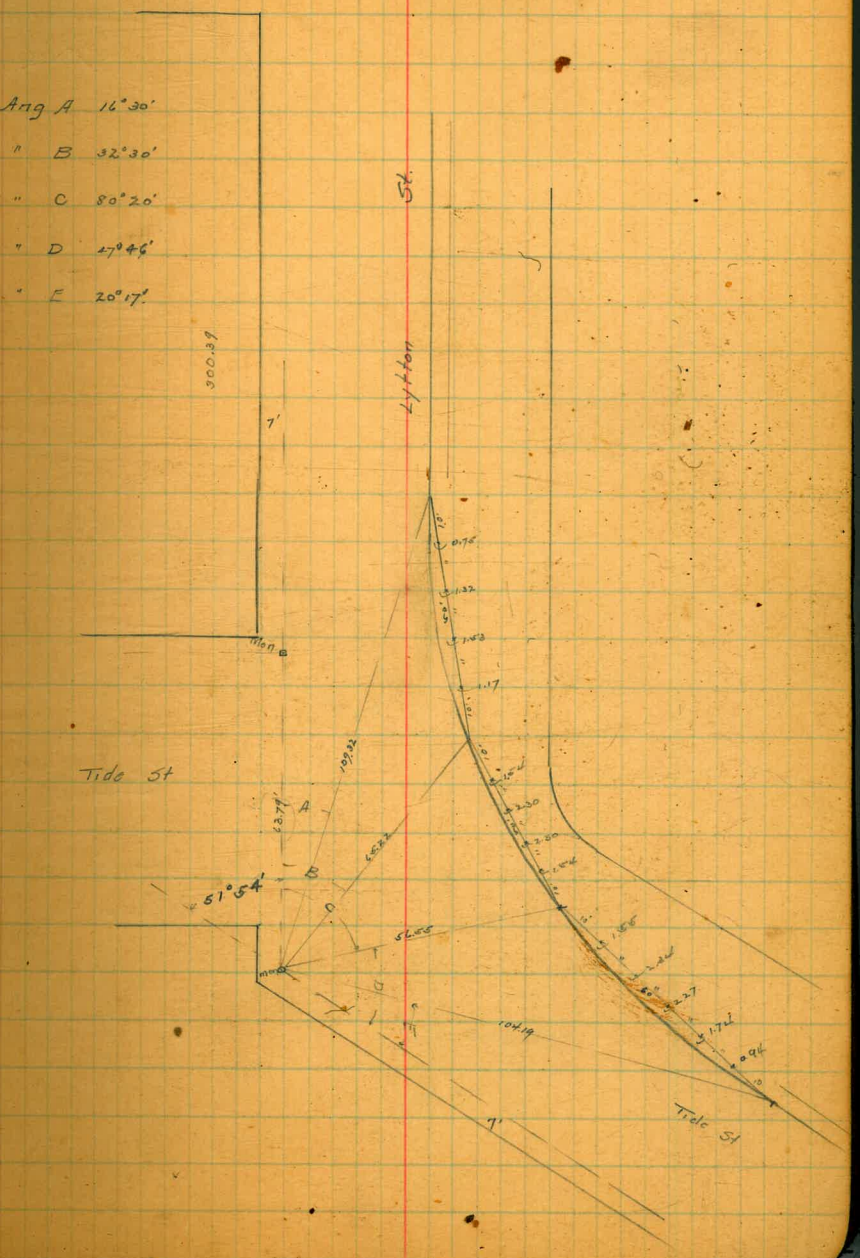


Location of Track at Tide & Kurtz & Intersection of Kurtz & Witherby.



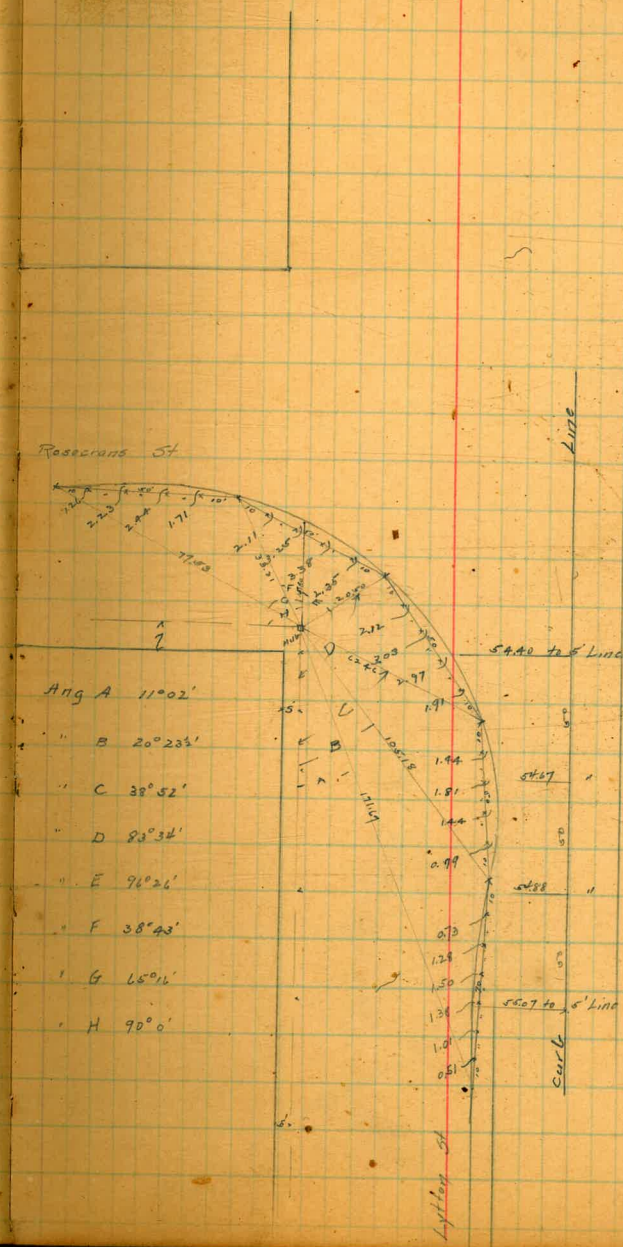
7/19 13 Davis Hancock Herrick

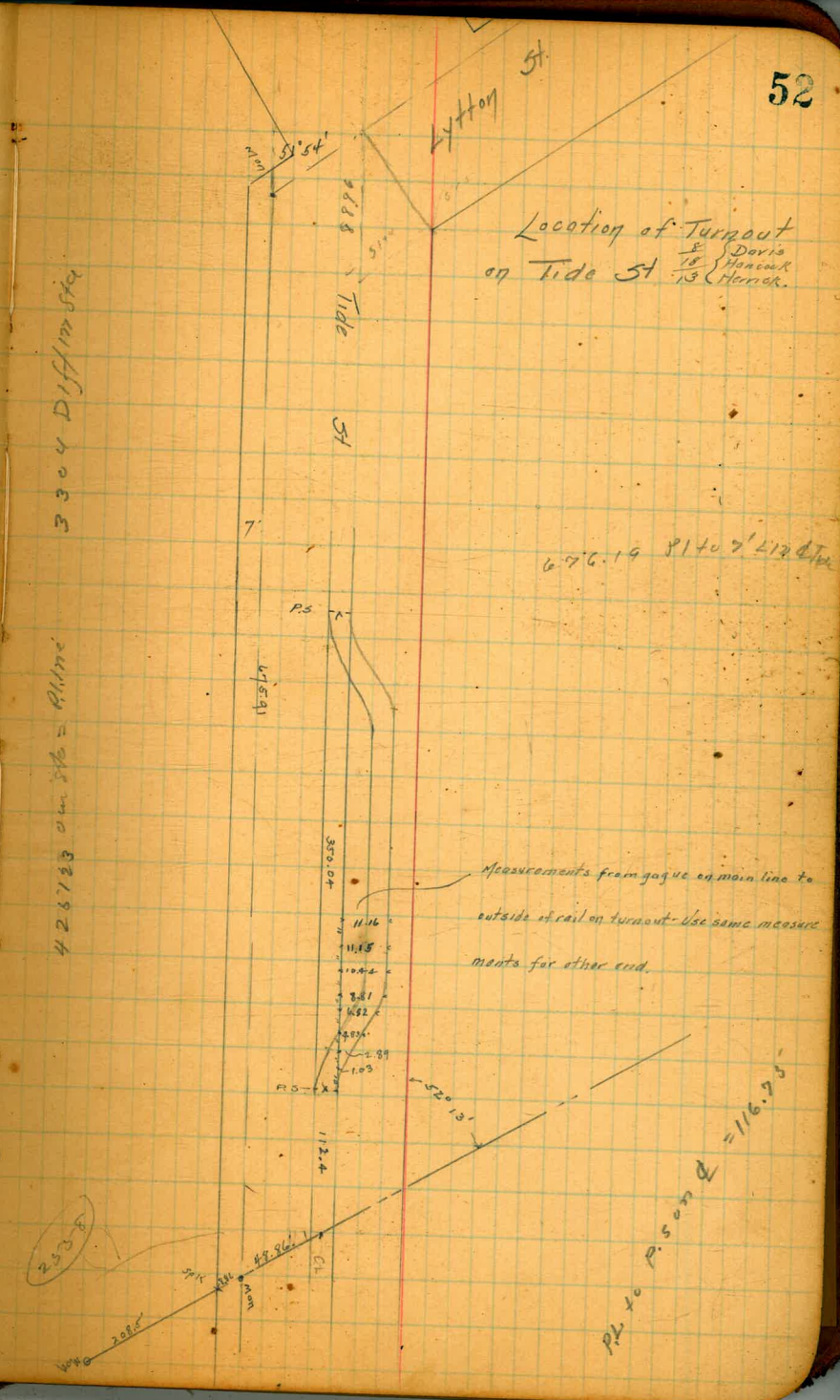
Location of outside edge of outside rail of Curve at Kurtz & Tide



Location of outer edge of inside rail of Curve at Rosecrans & Lytton Sts

7/29 13 { Davis, Hancock, Herrick




Lytton St.
Location of Turnout
on Tide St 8/18/13 {Davis Hancock Herrick.
Tide St
3304 Diff in Sta
426.23 on Sta = P.line
676.19 P.I. to 7' Line ℄ Tide
Measurements from gague on main line to outside of rail on turnout - Use same measurements for other end.
P.L. to P.S. on ℄ = 116.75'
350.04
112.4
48.86'
208.5'
253.8

Levels Over ℄ of Tio ST from the N.W. Line of Kurtz St to the SoEnd of Lyttom ST

33' offset Staioning

| | | | | |
|---|---|---|---|---|
| | 1.10 | 5.73 | 4.63 | spk NE Kurtz |
| 0.0 = W.L. KURTZ ST PRODUCED | | 4.1 | 1.63 | |
| + 09 = Ctr 2.5 x 4.0 CONC. CULVERT | | | | |
| + 50 | | 4.2 | 1.5 | |
| 1 + 00 | | 4.5 | 1.2 | |
| 1 + 25 = 15" SHEETPIPE ON SO. Elev. on bottom = 6.11 − 0.68 | | | | |
| 1 + 39 = 15" " " " No. " " = 6.17 − 0.44 | | | | 1.13 |
| 1 + 50 | | 4.4 | 1.3 | |
| 1 + 98 = Ctr 2.5 x 4.0 CONC. CULV. | | | | |
| 2 + 00 | | 4.6 | 1.1 | |
| 2 + 50 | | 4.5 | 1.2 | |
| 3 + 00 | | 4.8 | 0.9 | |
| 3 + 50 | | 4.8 | 0.9 | |
| 4 + 00 | | 4.9 | 0.8 | |
| + 50 | | 5.0 | 0.7 | |
| 5 | | 5.0 | 0.7 | |
| + 50 | | 5.1 | 0.6 | |
| 6 | | 5.3 | 0.4 | |
| + 50 | | 5.2 | 0.5 | |
| 7 | | 5.3 | 0.4 | |
| + 50 | | 5.4 | 0.3 | |
| 8 | | 5.4 | 0.3 | |
| + 50 | | 5.4 | 0.3 | |
| 9 | | 5.3 | 0.4 | |
| T.P. | 5.30 | 5.78 | 5.25 | 0.48 |
| + 50 | | 5.3 | 0.5 | |
| 10 | | 5.3 | 0.5 | |

5.78

| | | |
|---|---|---|
| + 50 | 5.1 | 0.7 |
| 11 | 5.1 | 0.7 |
| + 50 | 4.8 | 1.0 |
| 12 | 4.8 | 1.0 |
| + 50 | 4.8 | 1.0 |
| 13 | 4.8 | 1.0 |
| + 50 | 4.7 | 1.1 |
| 14 | 4.7 | 1.1 |
| + 50 | 4.6 | 1.2 |
| 15 | 4.5 | 1.3 |
| + 50 | 4.5 | 1.3 |
| 16 | 4.43 (w) | 1.33 |
| + 50 | 4.4 | 1.4 |
| 17 | 4.3 | 1.5 |
| + 50 | 4.4 | 1.4 |
| + 67 = Ctr 2.5 x 4.0 CONC. CULVERT. { ELEV BOTTOM " " | INLET = Rod 9.67 − 3.87 | |
| | OUTLET = F.S. 8.99 − 4.21 | |
| 18 | 4.5 | 1.3 |
| + 50 | 4.6 | 1.2 |
| 19 | 4.6 | 1.2 |
| T.P. 3.60 4.85 | 4.53 | 1.25 |
| + 50 | 3.8 | 1.1 |
| 20 | 3.9 | 1.0 |
| + 50 | 4.0 | 0.9 |
| 21 | 4.1 | 0.8 |
| + 50 | 4.2 | 0.7 |
| 22 | 4.2 | 0.7 |
| + 50 | 4.4 | 0.5 |

H.85

| | | | | |
|---|---|---|---|---|
| 23 | | | 4.6 | 0.3 |
| +50 | | | 4.7 | 0.2 |
| 24 | | | 4.7 | 0.2 |
| +50 | | | 4.6 | 0.3 |
| 25 | | | 4.5 | 0.4 |
| +50 | | | 4.5 | 0.4 |
| 26 | | | 4.4 | 0.5 |
| +50 | | | 4.4 | 0.5 |
| 27 | | | 4.3 | 0.6 |
| +50 | | | 4.1 | 0.8 |
| 28 | | | 4.0 | 0.9 |
| +50 | | | 4.0 | 0.9 |
| 29 | | | 4.0 | 0.9 |
| +50 | | | 4.0 | 0.9 |
| 30 | | | 3.9 | 1.0 |
| T.P. | 5.06 | 6.12 | 3.79 | 1.06 |
| +50 | | | 5.1 | 1.0 |
| 31 | | | 5.1 | 1.0 |
| +50 | | | 5.0 | 1.1 |
| 32 | | | 4.9 | 1.2 |
| +50 | | | 4.9 | 1.2 |
| 33 | | | 4.7 | 1.4 |
| +38 = Ctr 2.5'x4.0' Conc Culv. | | | Elev bottom Inlet = Rod 10.64 | −4.52 |
| | | | Outlet = 11.15 | −5.03 |
| +50 | | | 4.6 | 1.5 |
| 34 | | | 4.6 | 1.5 |
| +50 | | | 4.3 | 1.8 |
| 35 | | | 4.5 | 1.6 |

| | | | | |
|---|---|---|---|---|
| +50 | | 6.12 | 4.5 | 1.6 |
| 36 | | | 4.7 | 1.4 |
| +50 | | | 4.7 | 1.4 |
| 37 | | | 4.8 | 1.3 |
| +50 | | | 5.0 | 1.1 |
| 38 | | | 5.0 | 1.1 |
| +50 | | | 5.2 | 0.9 |
| 39 | | | 5.3 | 0.8 |
| +50 | | | 5.4 | 0.7 |
| 40 | | | 5.4 | 0.7 |
| T.P. | 4.53 | 5.27 | 5.38 | 0.74 |
| +50 | | | 4.6 | 0.7 |
| 41 | | | 4.7 | 0.6 |
| +50 | | | 4.7 | 0.6 |
| 42 | | | 4.8 | 0.5 |
| +50 | | | 4.9 | 0.4 |
| 43 | | | 4.9 | 0.4 |
| +50 | | | 4.8 | 0.5 |
| 44 | | | 4.6 | 0.7 |
| +50 | | | 4.6 | 0.7 |
| 45 | | | 4.5 | 0.8 |
| +50 | | | 4.3 | 1.0 |
| 46 | | | 4.1 | 1.2 |
| +50 | | | 4.0 | 1.3 |
| 47 | | | 3.9 | 1.4 |
| +50 | | | 3.7 | 1.6 |
| 48 | | | 3.6 | 1.7 |
| +50 | | | 3.5 | 1.8 |

527

48+70 = Ctr 8'x5' conc. culv { Elev. bottom Inlet. = RP 11.10 − 3.83 / outlet = 12.15 − 6.88

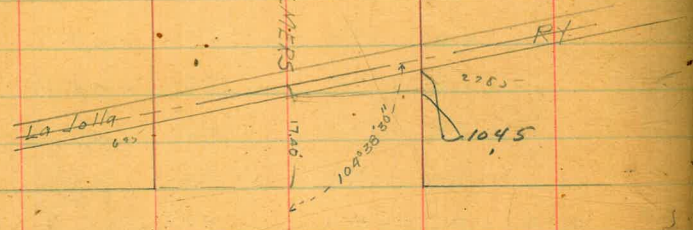
48+92 = Inter. ℄ Tide & ℄ Lytton 3.4 1.9

T.P. 3.24 5.07 3.44 1.83 (1.21)

T.P. 2.86 2.21 Spike in pole

49+27 ± = Int ℄ Tide St & W.L. Line Lytton St.

ok




17.40
revised
6.85

ARCTIC ST

ST

LEVELS ON ℄ CHALMERS ST. 17.40
FROM W.L. INDIA. ST TO ℄ CALIFORNIA ST.

56

| | | | | | |
|---|---|---|---|---|---|
| | | | | | cpk S.W. India & Chalmers |
| | 3.41 | 70.46 | | | 67.05 |
| | 4.37 | | | | 6600 cut SW Bnd |
| 00 = W.L. India St | | | H.H | | 66.10 |
| +50 | | | 8.2 | | 62.3 |
| 1 | | | 11.7 | | 58.8 |
| T.P. | 1.40 | 59.02 | 12.84 | | 57.62 |
| +50 | | | 3.4 | | 55.6 |
| 2.00 = E.L. Arctic St | | | 6.4 | | 52.6 |
| ℄ Arctic St | | | 8.4 | | 50.6 |
| W.L. Arctic St | | | 11.2 | | 47.8 |
| E. Rail La Jolla Ry | | | 12.23 | | 46.79 |
| W " " " | | | 12.39 | | 46.63 |
| T.P. | 0.42 | 46.40 | 13.04 | | 43.98 |
| +50 | | | 0.6 | | 45.80 |
| 1700 | | | 2.1 | | 44.30 |
| +50 | | | 6.0 | | 40.40 |
| ℄ = E.L. California St | | | 8.6 | | 37.8 |
| ℄ " " | | | 10.9 | | 35.5 |

LEVELS ON ℄ CALIFORNIA ST
FROM ℄ CHALMERS ST TO ℄ HANCOCK ST

| | | | | |
|---|---|---|---|---|
| ℄ CHALMERS ST | | | 10.9 | 35.5 |
| W.L. " " | | | 10.9 | 35.5 |
| T.P. | 12.26 | 47.72 | 10.94 | 35.46 |
| 50' No | | | 9.5 | 38.2 |
| 100 " | | | 8.4 | 39.3 |

47.72

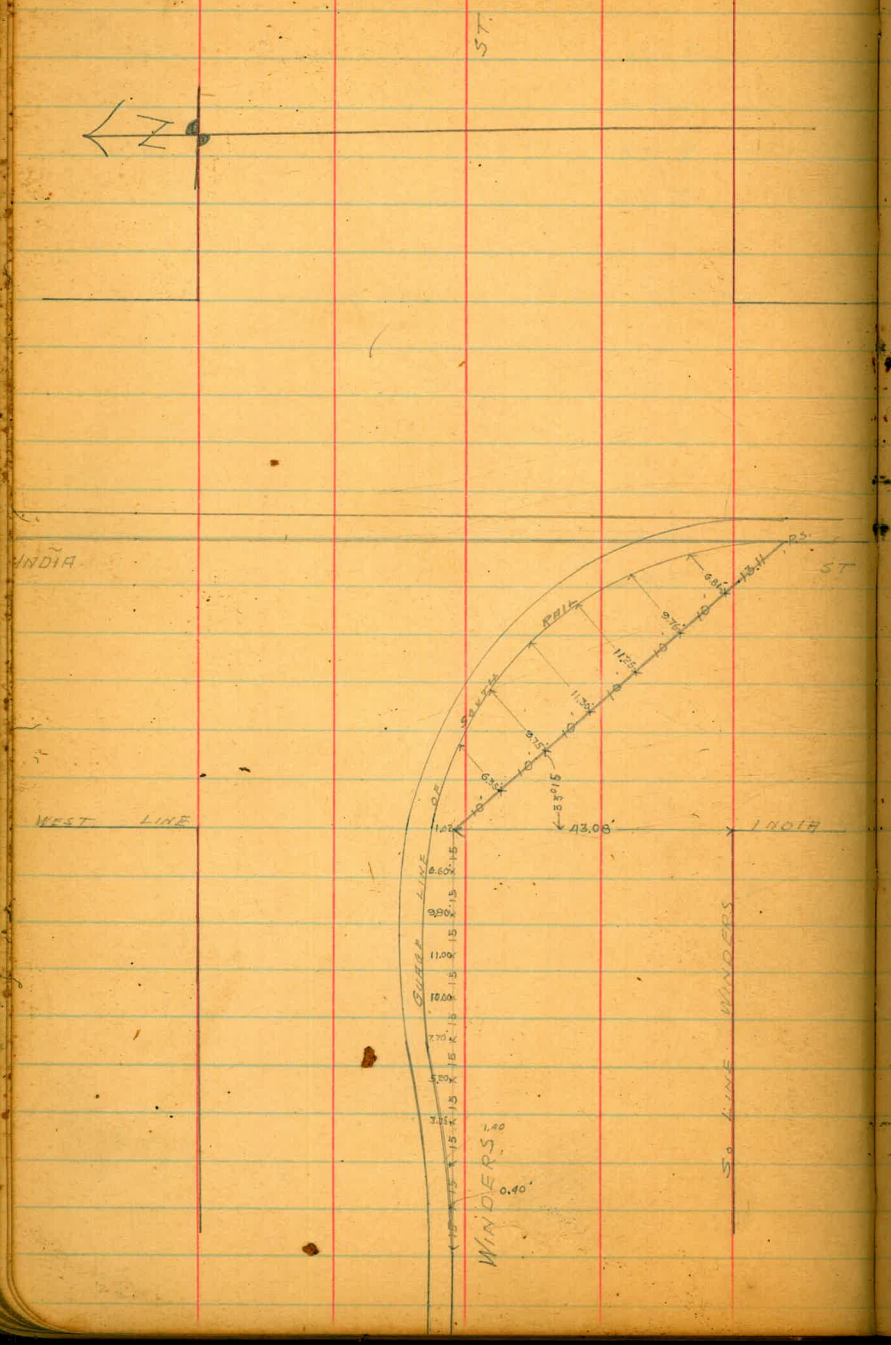
| | | |
|---|---|---|
| 150' No | 7.1 | 40.6 |
| 200' No | 5.7 | 42.0 |
| 250' No. | 4.8 | 42.9 |
| No = ℄ HANCOCK ST PRODUCED | 4.9 | 42.8 |

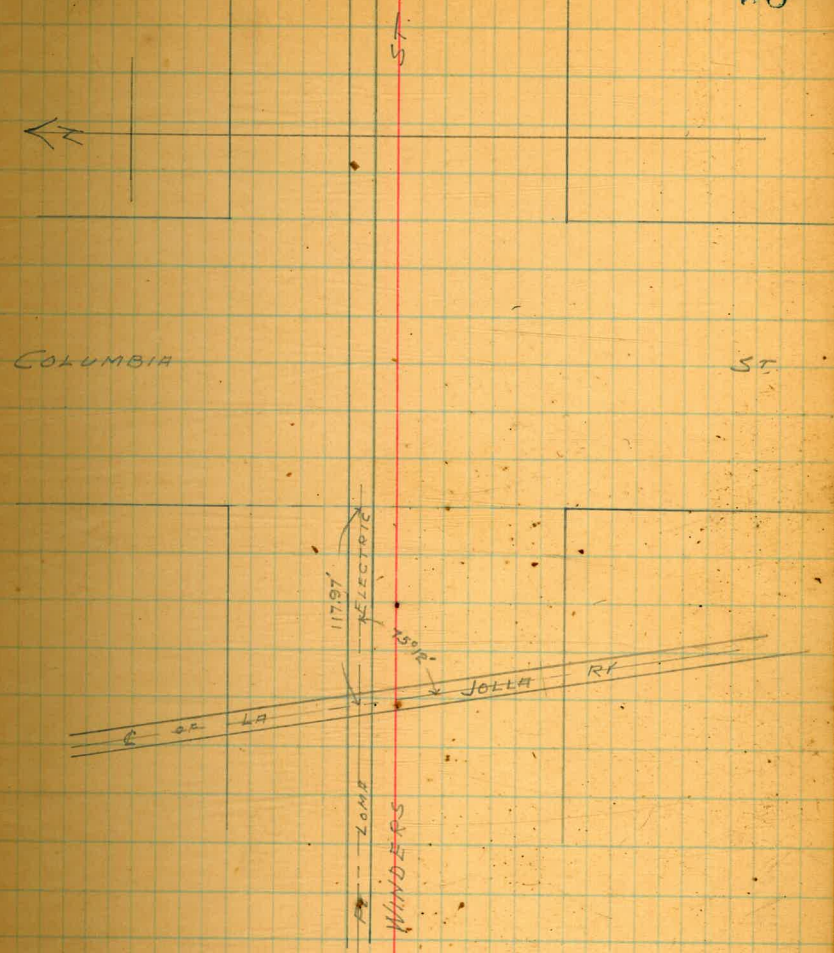
LEVELS ON ℄ HANCOCK ST FROM ℄ CALIFORNIA ST PRODUCED TO ℄ WINDER ST

| | | |
|---|---|---|
| ℄ CALIFORNIA ST + ℄ HANCOCK | 4.9 | 42.8 |
| 50' No | 4.7 | 43.0 |
| 100' No. | 4.9 | 42.8 |
| = ℄ WINDER ST. | 4.9 | 42.8 |

LOCATION OF CURVE AT INDIA & WINDERS STS

10/14/13 Gregors Shoemaker Moore



6th & B N.W. Plg. 58.43

79.03 NE A Nail in Ct

79.03 BM
2.94
81.97 HT

79.00
2.97
76.50
5.47
58.43
4.95
63.38 HT

79.03
2.75
81.78 HT

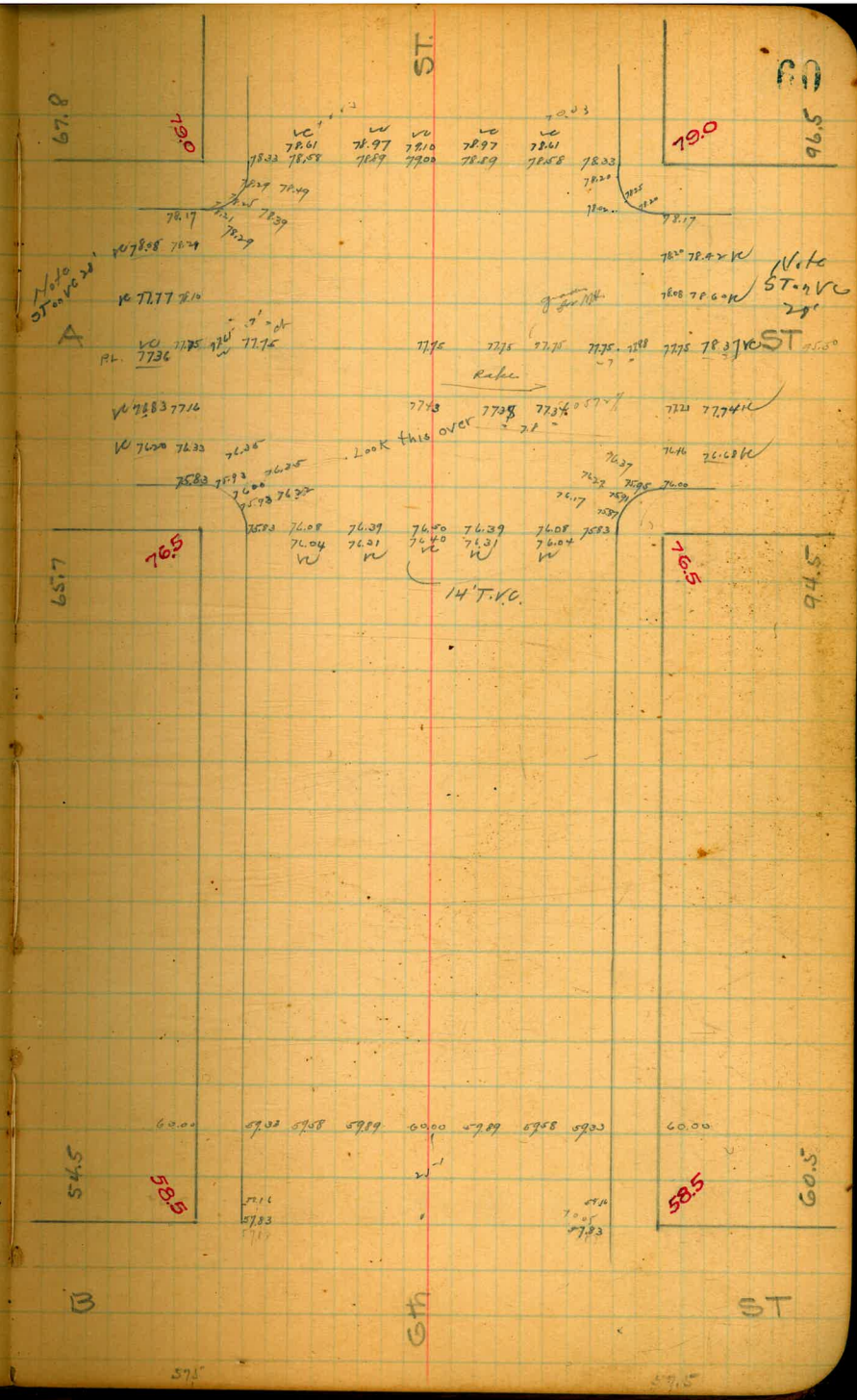
79.03
3.57
82.60 HT

58.43
4.75
63.18 HT

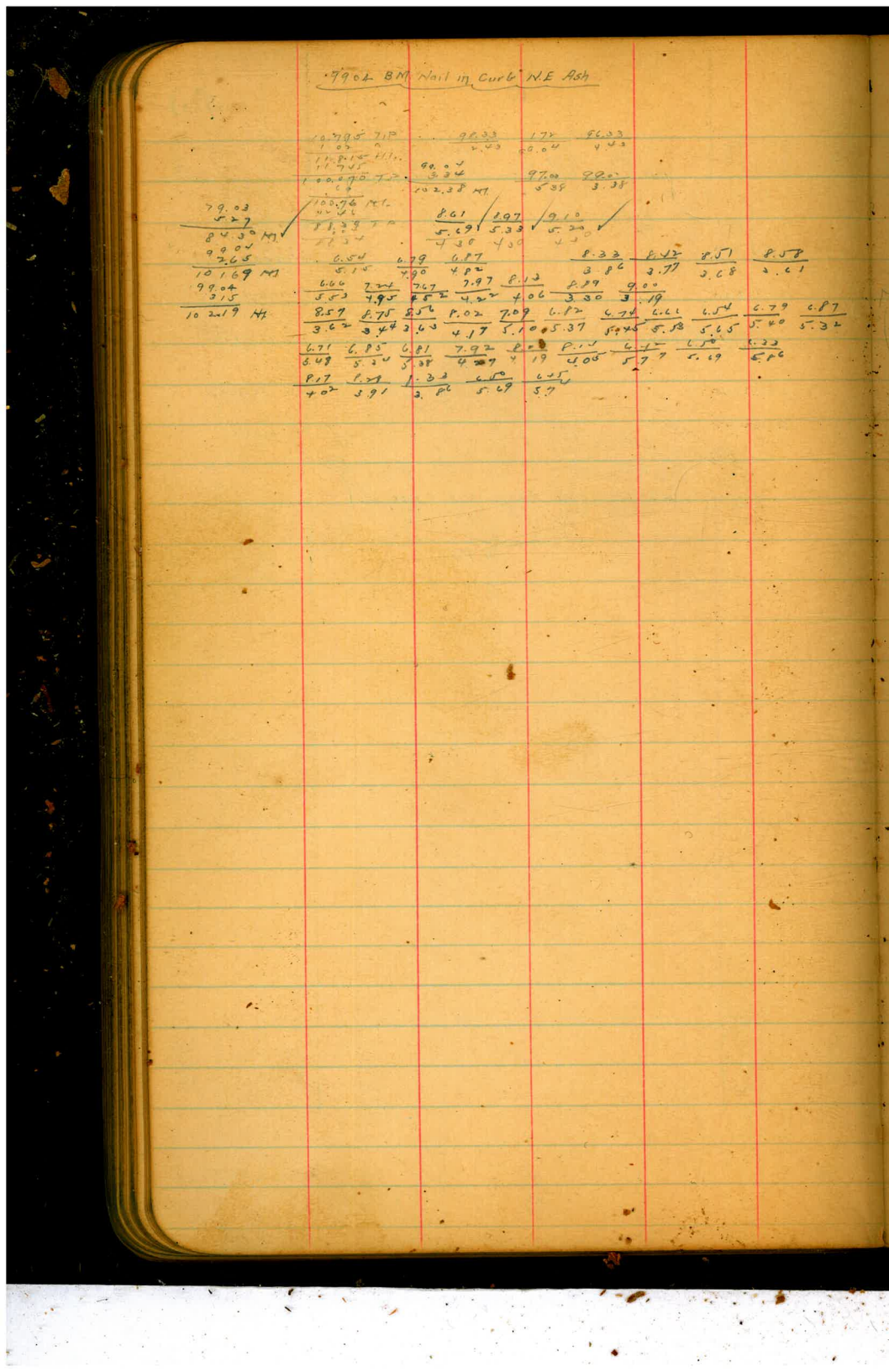
79.03 BM
2.94
81.97 HT

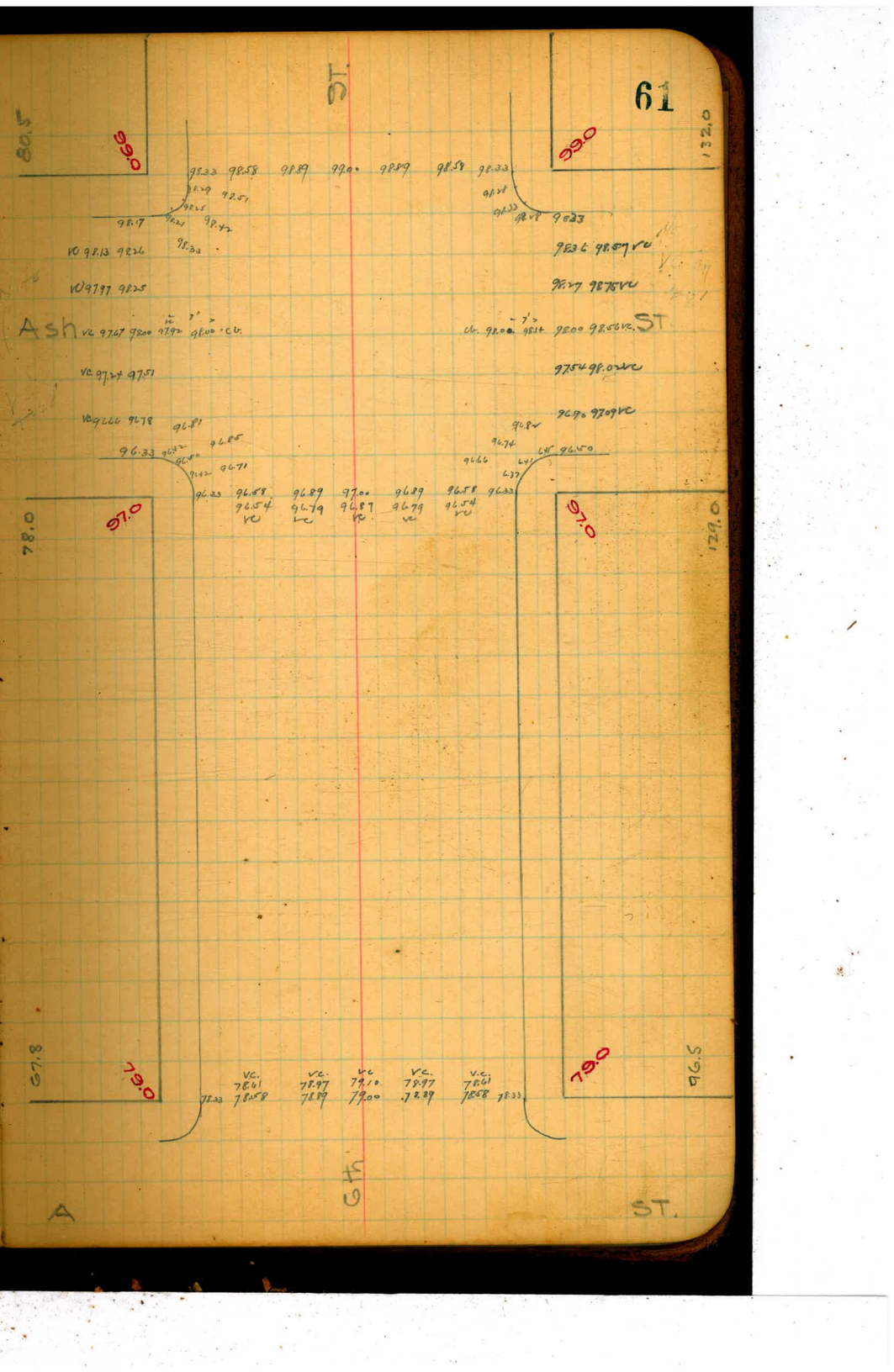
79.03
1.41
80.44 HT

79.03
3.34
82.37 HT

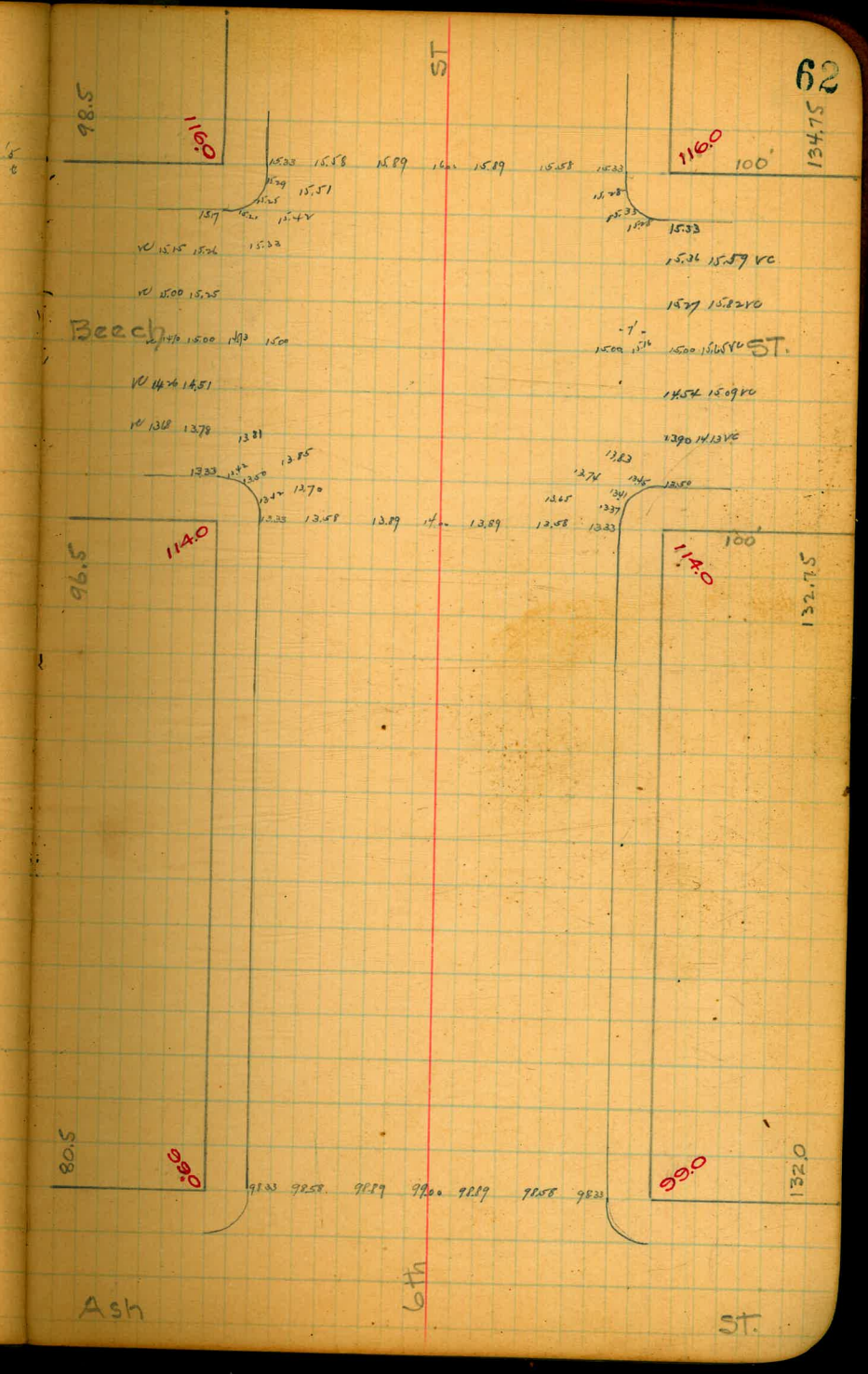


·7902 BM Nail in Curb N.E Ash

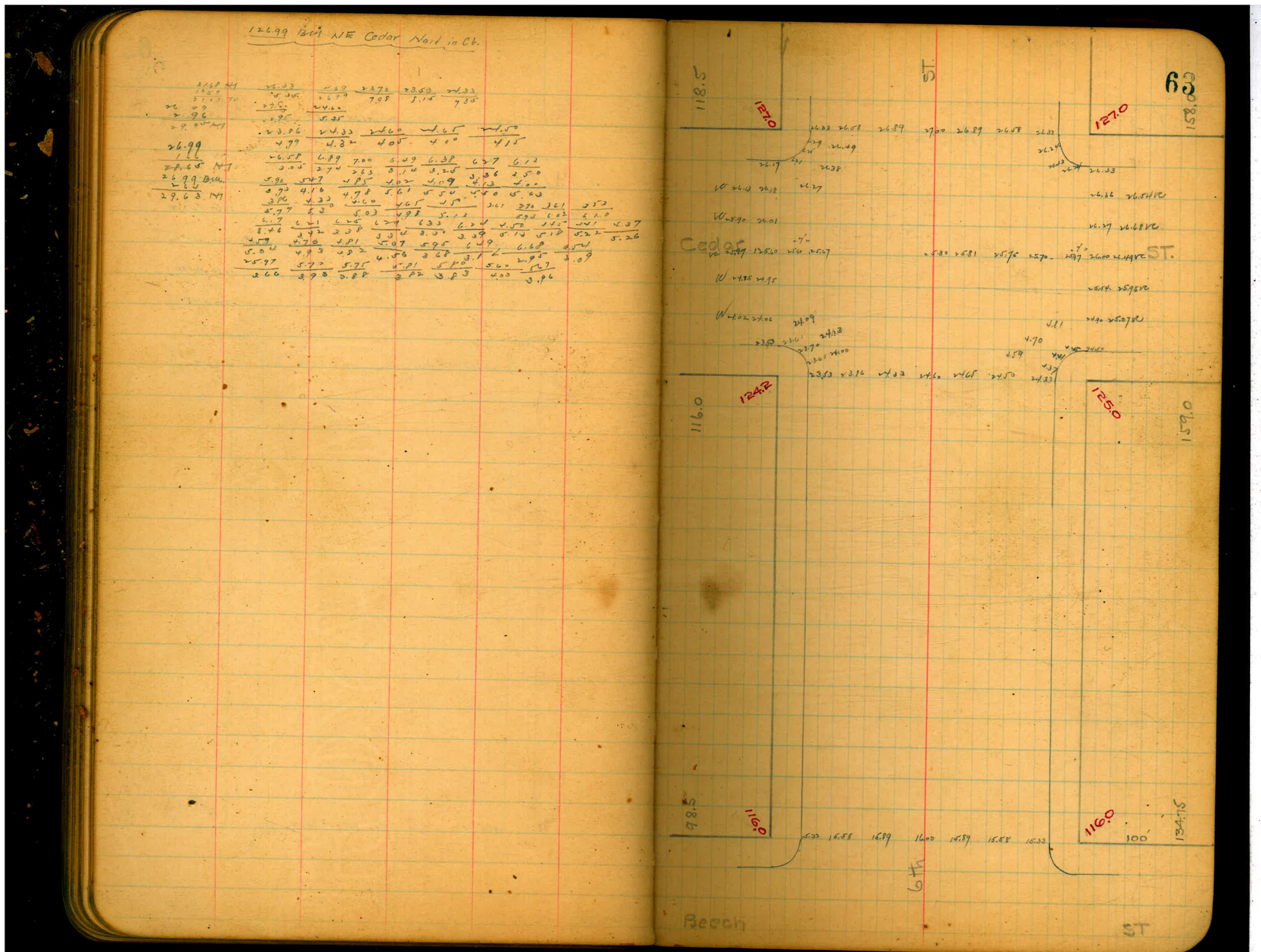




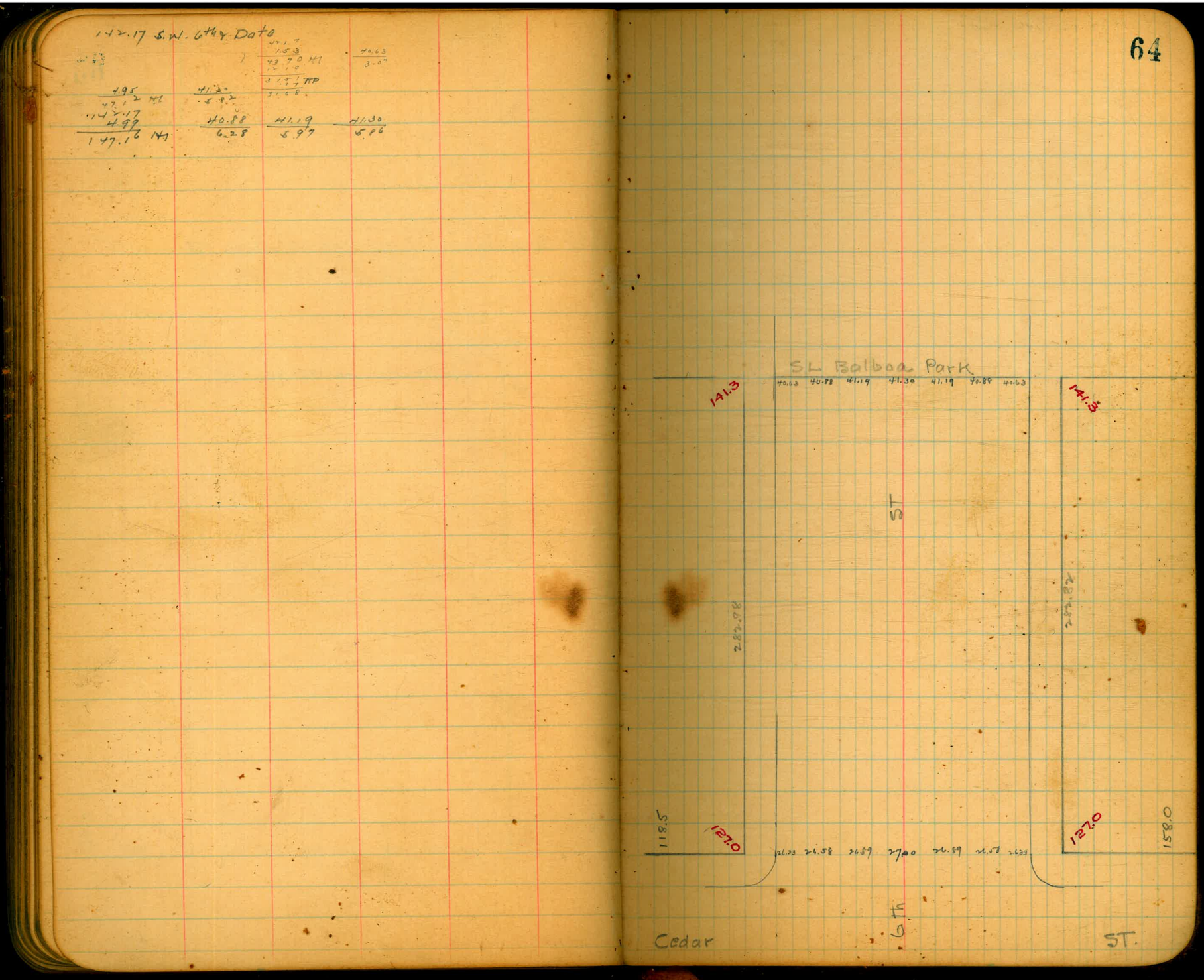
18.36 13M. N.E. Beech Top Hydt



126.99 Bm NE Cedar Nail in Ch.



142.17 S.W. 6th Ave Date



N.W. Cor Univ Ave & Park Blvd R.R Spk pole 315.83
N.E Cor " " " - Wall - Plg rt 316.905
Lincoln NE Plg 332.305 Lincoln NE Spk pole 332.75

315.86
6.29
322.15 HI
150
320.65 TP
11.05
331.70 HI
2.15
329.55 TP
8.21
337.76 HI
315.83
5.75
321.58 HI
227
319.37 TP
927
328.64 HI
081
27.83 TP
754
35.37 HI
27.83
406
31.89 HI
897
22.92 TP
352
23.54 HI
761
15.79

319.67
11.34
331.01 HI
237
328.64 TP
861
337.25 HI

316.905
6.34
323.24 HI

32.76
402
36.78 HI

330.20
6.58
32.00
4.78

76.50
5.08
16.17
15.41
17.64
3.94
18.78
2.80
19.92
1.66

21.07
7.57
22.21
6.43
23.35
5.29
24.49
4.15
25.63
3.01
26.77
1.87

27.92
0.72
29.06
6.31
30.20
5.17
32.66
32.71
3.12
3.225

31.20
4.17
29.98
5.29
28.76
6.61
27.54
4.35
26.32
5.57

332.73 Spk NE Lincoln
6.24
38.97 HI

17.20
6.67
17.79
6.08
19.01
4.86
20.23
3.64
22.67

315.83
4.865
320.695 HI
379
316.905 BM
6.965
323.87 HI
420
319.67 TP
10.85
330.52 HI

8.24
22.67

21.45
2.42
16.02
7.85
16.27
7.60
17.12
6.75
17.97
5.90

19.00
4.87
20.00
3.87
21.28
9.24
22.55
7.97
23.83
6.69
25.10
5.42

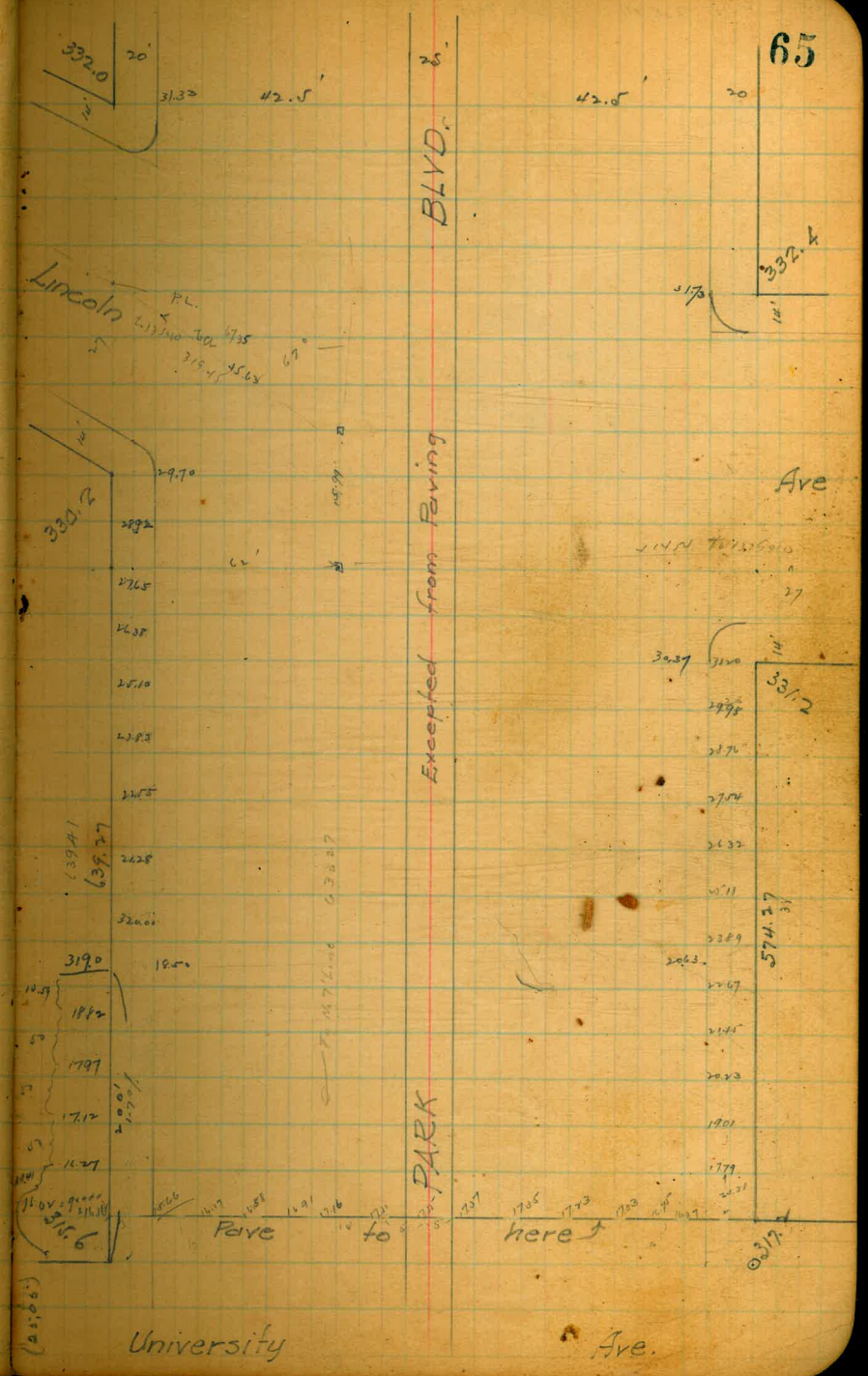
26.38
4.14
27.65
2.87
28.92
1.60
30.20
0.32
22.67
7.85

7.09
21.45
22.67
7.85
23.89
6.63
25.11
5.41
26.32
4.20

23.89
7.12
25.11
5.90
26.32
4.69
27.54
3.47
28.76
2.25
29.98
1.03

31.20
6.05
4.955
32.305
4.50
32.75
6.72
16.52
6.51
16.73

31.33



Polk 339.79 N.E. Spk Polo

66

Polk Ave.

BLVD.

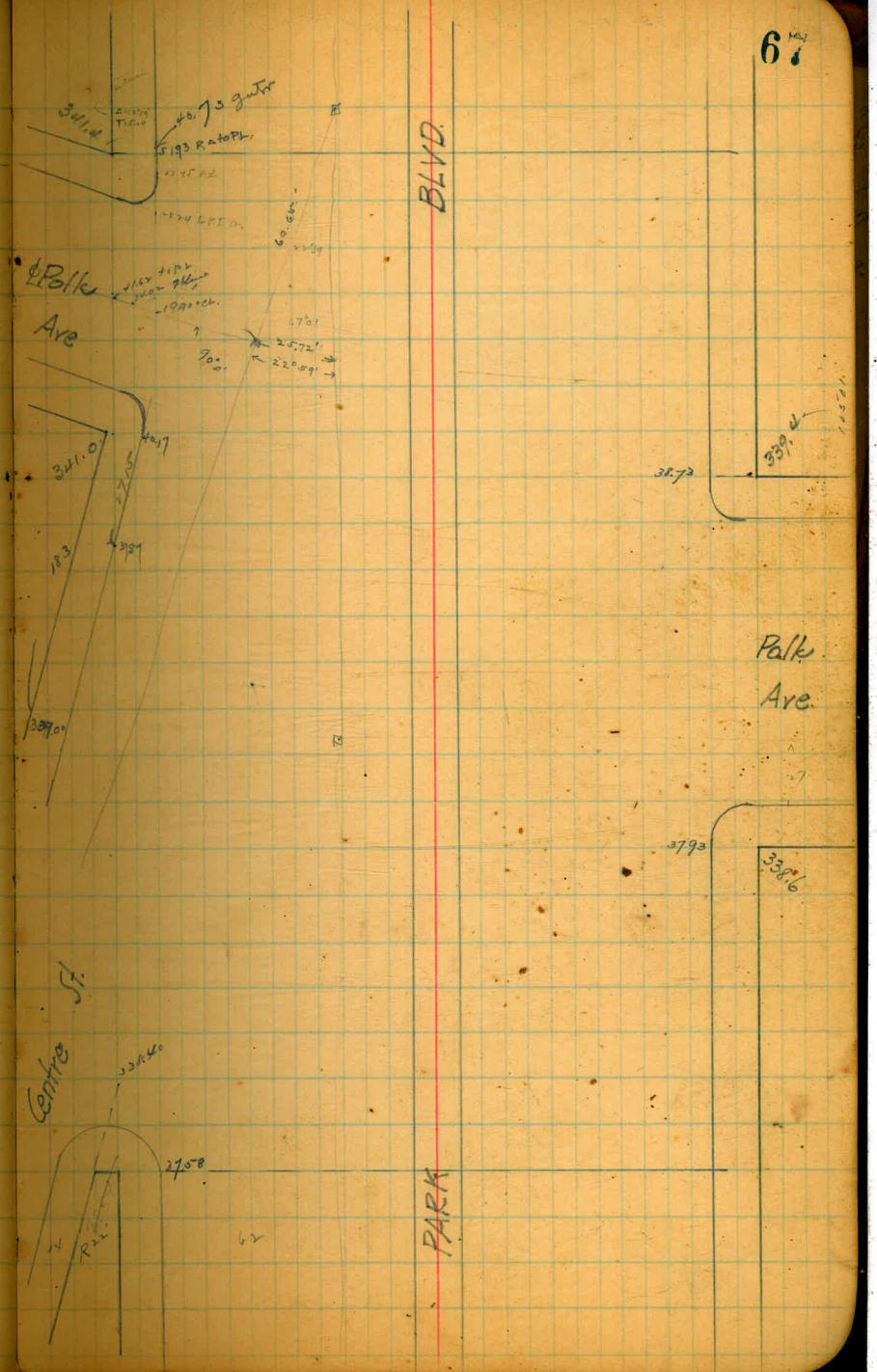
PARK

Lincoln.

Ave

339.79 N.E Polk Spk Pole

| | | | | |
|---|---|---|---|---|
| 344.18 HT | 3.15 | 2.75 | | |
| 38 | 41.03 | 41.43 | | |
| 340.38 TP | | | | |
| 640 | | | | |
| 346.78 HT | 38.73 | 37.93 | 37.58 | 40.70 |
| 339.79 | 5.65 | 6.45 | 6.80 | 3.68 |
| 4.59 | 39.87 | | | |
| 344.38 HT | 4.51 | | | |
| 39.79 | | | | |
| 7.37 | 40.73 | 5.87 | 40.58 | |
| 47.16 HT | 6.43 | 41.29 | 6.58 | |



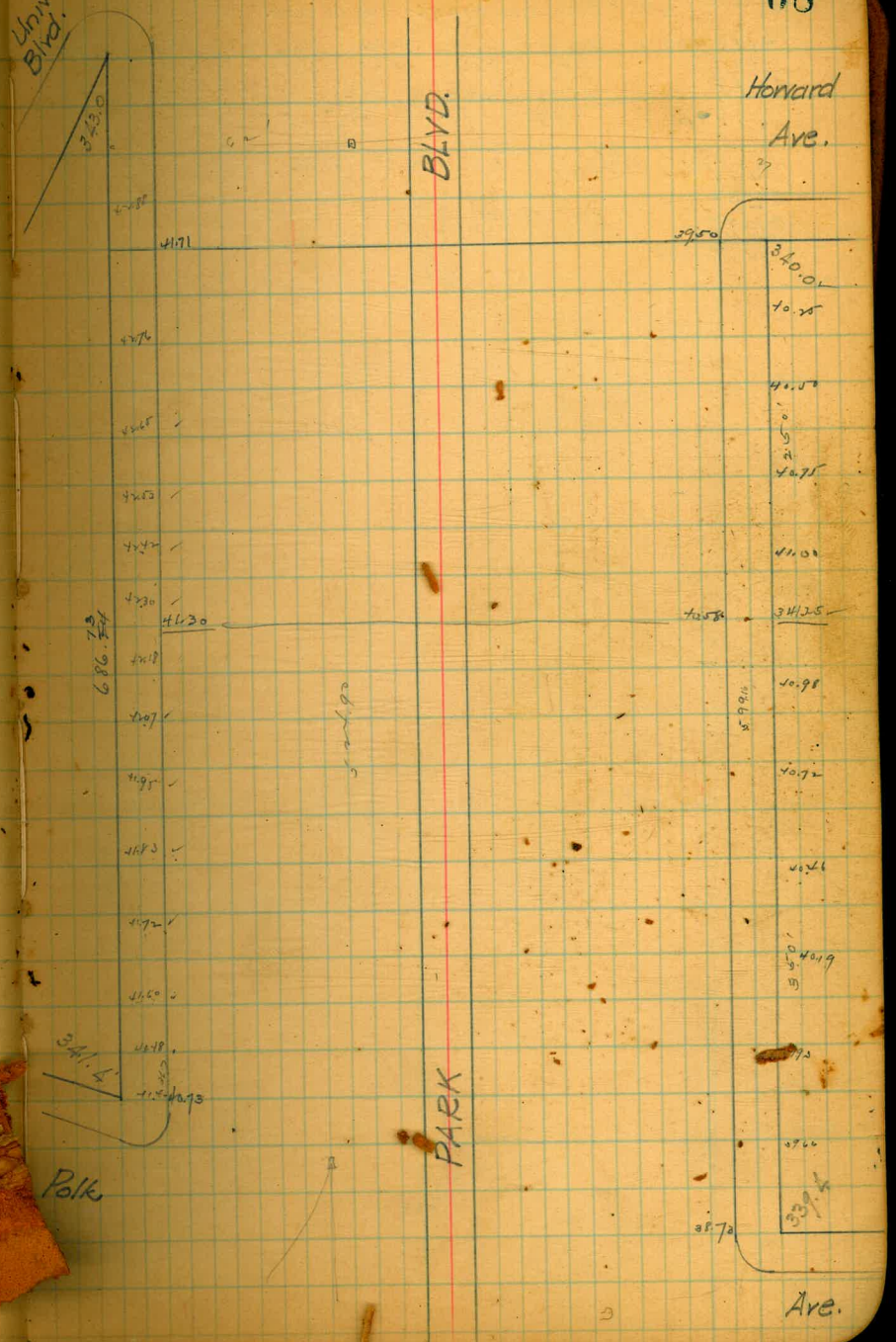
343.22 Tack 7' Line on P. Blvd int with Univ Blvd. at int of E.L. Univ Blvd with W.L. Park Blvd.

3.39.79 NE Polk Spk Pole 41.83 Bolt Hy at S.E Howard

39.79
6.80
46.59
5.29
41.30 T.P.
6.15
47.45 H.T.
6.41
41.04 T.P.
6.36
47.40 H.T.
39.79 Bm
6.59
46.38 H.T.
4.78
41.60 T.P.
6.31
47.98 H.T.
5.68
42.30 T.P.
39.79
6.12
45.91 H.T.
4.49
41.42 T.P.
5.97
47.39 H.T.
5.50
41.88 T.P.
5.69
47.57 H.T.

41.40 / 3.17 — 41.48 / 5.11 — 41.60 / 4.99 — 39.40 / 7.19 — 39.66 / 6.93 — 39.93 / 6.66
40.19 / 6.40 — 40.46 / 6.13 — 40.72 / 5.87 — 40.98 / 6.47 — 41.25 / 6.20 — 41.00 / 6.45 — 40.75 / 6.70
40.50 / 6.95 — 40.25 / 7.15 — 40.00 / 7.40 — 5.50 / 41.90 — 4.64 / 42.76 — 4.11 / 43.29
41.40 / 4.98 — 41.48 / 4.90 — 41.60 / 4.78 — 41.72 / 6.26 — 41.83 / 6.15 — 41.95 / 6.03
42.07 / 5.91 — 42.18 / 5.80 — 42.30 / 5.68
42.30 / 5.18 / 47.48 H.T. — 42.42 / 5.06 — 42.53 / 4.95 — 42.65 / 4.83 — 42.76 / 4.72 — 4.26 / 43.22 — 5.66 / 41.82
7.39 / 39.70 / 47.18 H.T. — 5.00 / 42.68 T.P. / 4.90 / 47.17 H.T. — 5.32 / 41.85 — 39.93 / 5.98 — 4.51 / 41.40
40.98 / 6.41 — 42.07 / 5.32 — 5.55 / 41.84 — 4.35 / 43.22 — 4.91 / 42.66
5.74 / 41.83 — 40.00 / 7.57 — 40.25 / 7.32 — 40.50 / 7.07 — 40.75 / 6.82 — 41.00 / 6.57 — 41.25 / 6.32
41.88 / 5.44 / 47.32 H.T. — 41.25 / 6.07 — 40.98 / 6.34 — 40.72 / 6.60 — 40.46 / 6.86 — 40.19 / 7.13 — 39.93 / 7.39

4.99
4.74
25
5.38
5.63



N.W. El Cajon & Park Blvd 342.86 Plug in Curb.

41.83 Bm
405
45.88
591
39.97 T.P.
768
47.65 N.T.
479
4286
4222
448
47.70 N.T.

40.00 / 5.88 — 40.24 / 5.64 — 40.48 / 5.40 — 40.72 / 5.16

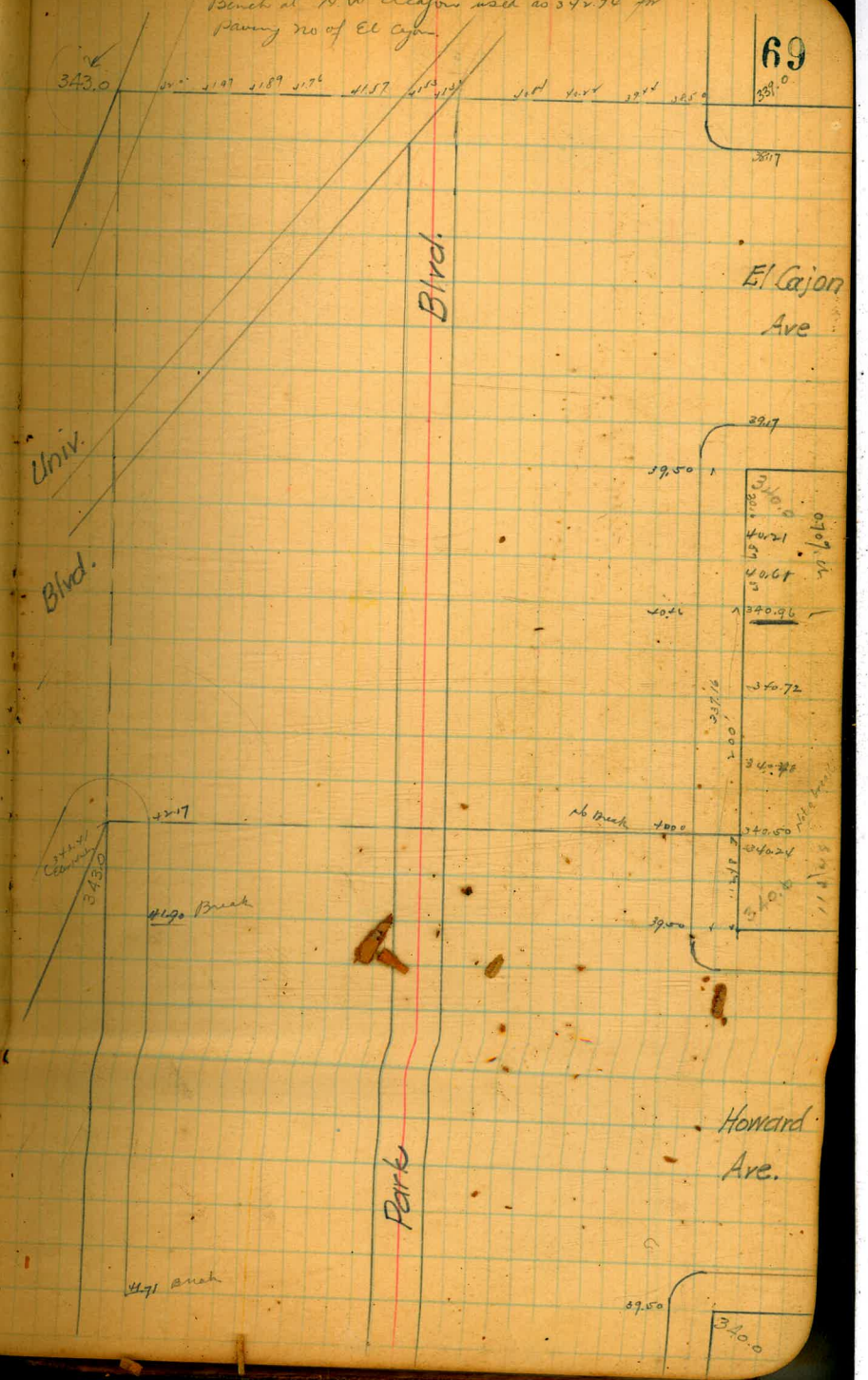
40.96 / 6.69 — 40.61 / 7.04 — 40.21 / 7.44 — 39.00 / 8.65

41.83 / 570 / 47.53 N.T. — 39.50 / 8.03 — 41.90 / 5.63 — 41.71 / 5.82 — 41.30 / 43.23

42.17 / 5.53 — 40.46 / 7.24 — 39.50 / 8.20



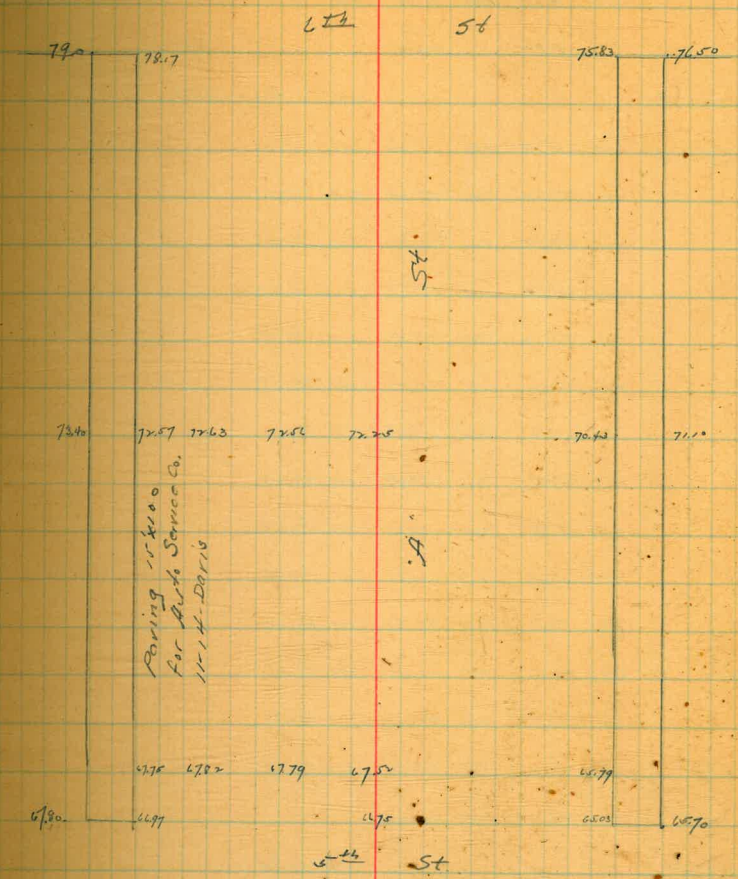
Bench at N.W. El Cajon used as 342.74 for paving no of El Cajon.



65.70 Nail Ct. S.W. 5th A

79.03 " " N.E. 6th A

| | | | | | | |
|---|---|---|---|---|---|---|
| 65.70 | | | | | | |
| 9.93 | 7.80 | 67.75 | 72.57 | | | |
| 75.63 H.T. | 67.83 | 7.88 | 3.06 | | | |
| 73.21 T.P. | 65.70 | | | | | |
| 9.22 | 8.85 | 67.79 | 67.82 | 72.56 | 72.63 | |
| 82.43 H.T. | 74.55 H.T. | 6.76 | 6.73 | 1.99 | 1.92 | |
| 89.09 | | | | | | |



Levels over tracks and W. Cb. at Univ Blvd

| Sta | East Rail Rod | East Rail Elev | West Rail Rod | West Rail Elev | West Curb Rod | West Curb Elev | |
|---|---|---|---|---|---|---|---|
| | | 5.88 | | HI 49.10 | | | 343.22 |
| 0+00 E. Cb Univ Blvd | | | | | 6.13 | 42.97 | = E. Cb. |
| 0+00 638 I No of N.L. Campus on W. | 4.85 | 44.25 | 4.87 | 44.23 | 5.40 | 43.70 | |
| +25 | 4.90 | 44.20 | 4.87 | 44.23 | 5.45 | 43.65 | |
| +50 | 5.08 | 44.02 | 4.90 | 44.20 | 5.52 | 43.58 | |
| +75 | 5.07 | 44.03 | 4.97 | 44.13 | 5.53 | 43.57 | |
| 1 | 4.98 | 44.12 | 5.01 | 44.09 | 5.65 | 43.45 | |
| +25 | 5.04 | 44.06 | 5.06 | 44.04 | 5.53 | 43.57 | |
| +50 | 5.01 | 44.09 | 5.06 | 44.04 | 5.80 | 43.30 | |
| +75 | 5.07 | 44.03 | 5.06 | 44.04 | 5.87 | 43.23 | |
| 2 | 5.12 | 43.98 | 5.10 | 44.00 | 5.92 | 43.18 | |
| +25 | 5.15 | 43.95 | 5.17 | 43.93 | 5.97 | 43.13 | |
| +50 | 5.30 | 43.80 | 5.39 | 43.71 | 5.97 | 43.13 | |
| +75 | 5.54 | 43.56 | 5.61 | 43.49 | 6.03 | 43.07 | |
| 3 | 5.76 | 43.34 | 5.75 | 43.35 | 6.17 | 42.93 | |
| +25 | 6.33 | 42.77 | 6.12 | 42.98 | 6.25 | 42.85 | |
| +50 | 6.98 | 42.12 | 6.88 | 42.22 | | | |
| 76 P.L. El Cajon +51.75 | | | | | 6.25 | 42.85 | |
| " " +71.90 | | | 7.43 | 41.67 | | | |
| " " +80.95 | 7.61 | 41.49 | | | | | |

380.95 ER
371.90 WR
351.75 CL

12-29-14

Elevations on Cable Slot along 4th St. Cedar to Fir

| | | | | | |
|---|---|---|---|---|---|
| | 1.40 | H.I. 166.36 | | 164.96 | BM. Jw N |
| So. line Fir | | | 5.02 | G 61.50<br>61.34 | |
| | 1.34 | H.I. 139.28 | | 137.94 | BM Elm NW |
| No. line Elm | | | 1.35 | G=38.00<br>37.93 | |
| So " " | | | 4.55 | G 35.00<br>34.73 | |
| T.P. | 0.54 | H.I. 127.42 | 12.40 | 126.88 | |
| No. line Date | | | 5.40 | G=22.50<br>22.02 | |
| So " " | | | 7.08 | 20.50<br>20.34 | |
| T.P. | 0.27 | H.I. 115.93 | 11.76 | ~~115.[illegible]~~ | |
| No. line Cedar | | | 5.31 | G=110.75<br>110.62 | |
| So " " | | | 7.30 | G=108.75<br>108.63 | |

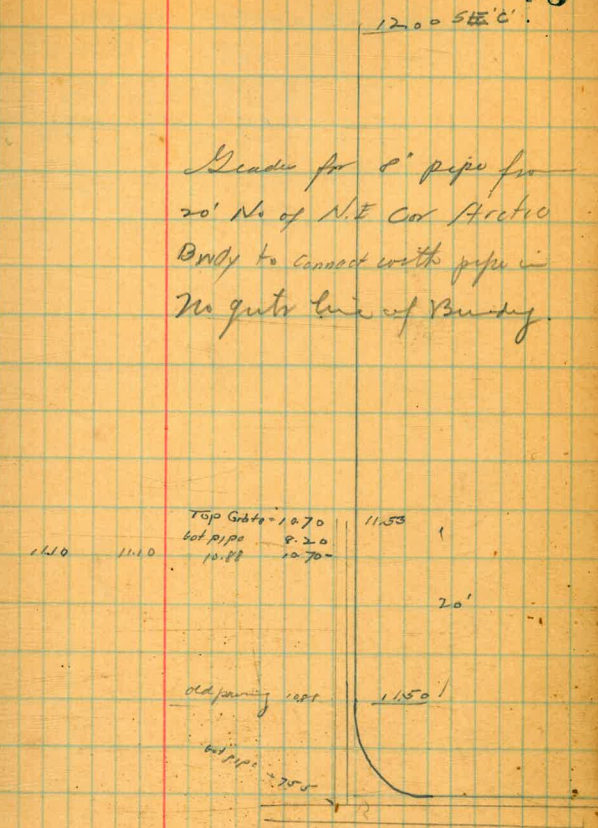
10.50 Bu S.E. Arctic Plg ab.
5.55
1605 Ht.

5.17 / 10.38 — 5.17 / 10.88 — 8.50 / 7.55 — 10.70 / 5.35 — 7.86 / 8.19

10.50
5.66
16.16 Ht

5.06 / 11.10 — 11.10 / 5.06 — 10.88 / 5.28 — 10.70 / 5.46






Grades for 8" pipe from 20' No. of N.E. Cor Arctic Bldg to connect with pipe in No. quarter line of Building.

28.63 Bm SW 4th F Plg rt.

564
34.27 Hg

5.22 29.05 | 5.45 28.82 | 29.15 5.42 | 8.81 5.46 | 5.44 8.83

29.00 5.27 | 8.96 5.31 | 8.92 5.35 | 8.88 5.39 | 8.84 5.43 | 4.57 29.70 | 60 16 4 | 26 14 40

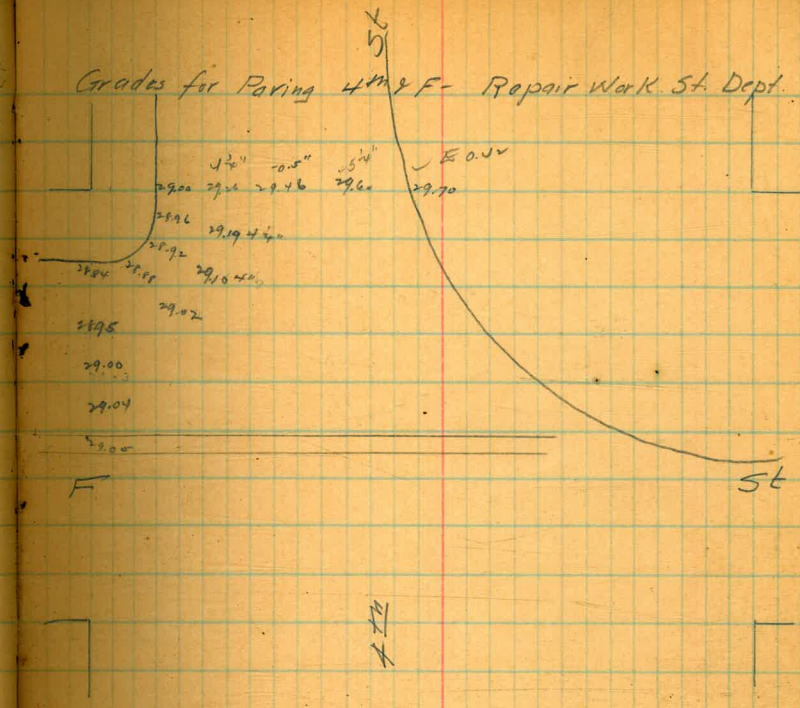
5.11 29.16 | 5.22 29.05 | 5.41 28.86 | 5.43 28.84 | 5.50 8.77 | 23 13 34 | 5.23 -41 4.82

29.03 5.24 | 28.96 5.31 | 29.00 5.27 | 28.95 5.32 | 29.02 5.25 | 5.13 4.82 3

5.50 28.77 | 5.43 28.84 | 5.20 4.82 .38 | 5.22 4.3 4.79 | 5.09 4.79 .30 | .42



Grades for Paving 4th & F - Repair Work St. Dept.



79.40
79.47, BM NW 5th & Ash
18
81.29
7.48
70.41
77.89 HI.
2.68
75.21 T.P
5.87
81.08 HI

4.46
76.83 SW 5th
3.54
77.50
79.40
2.32
81.72 HI.

5.69
75.60 SE 4th
5.52
75.56
76.25
5.47

3.72
77.57 NE 4th
4.29
76.79
1.68
79.40
6.17
5.55
6.86
4.86

70.40 S.W 3d plg

4th St

75.50 75.00 76.83 77.50

Ash

grades for Gas co M.H

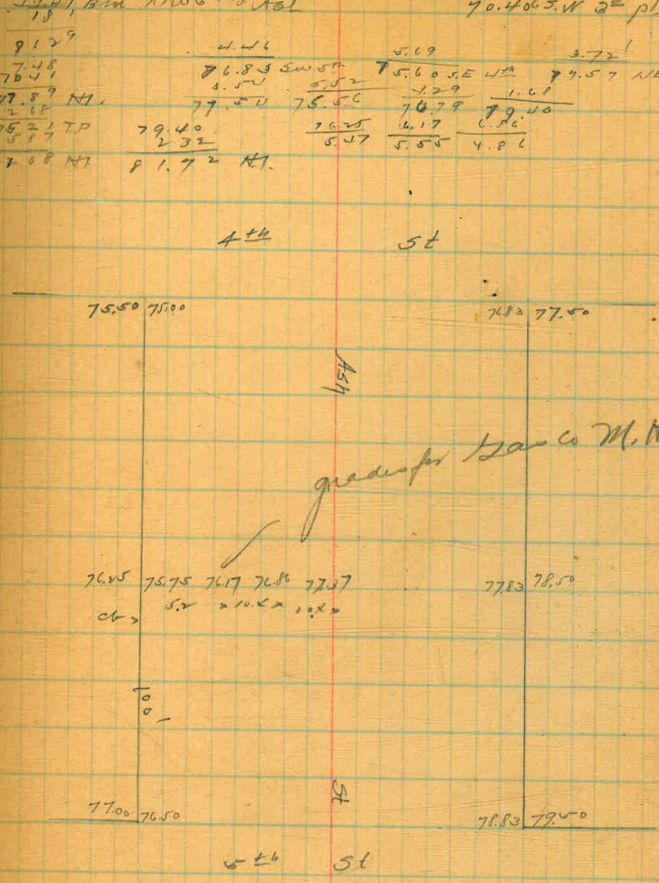
76.25 75.75 76.17 76.86 77.37 77.83 78.50
5.2 10.6 10.6
ch

100

St

77.00 76.50 78.83 79.50

5th St



21.50 21.00 21.26 21.61 21.75 21.68 21.40 21.17 22.00

#380

23.04
0.90
23.84 Pl.

21.26 / 2.68 — 21.61 / 2.33 — 21.75 / 2.19 — 21.68 / 2.26 — 21.40 / 2.54

16.72 / 7.22 — 17.17 / 6.77 — 17.40 / 6.54 — 17.42 / 6.52 — 17.22 / 6.72

16.92 16.72 17.17 17.40 17.42 17.22 17.87

16.50 16.00 17.50

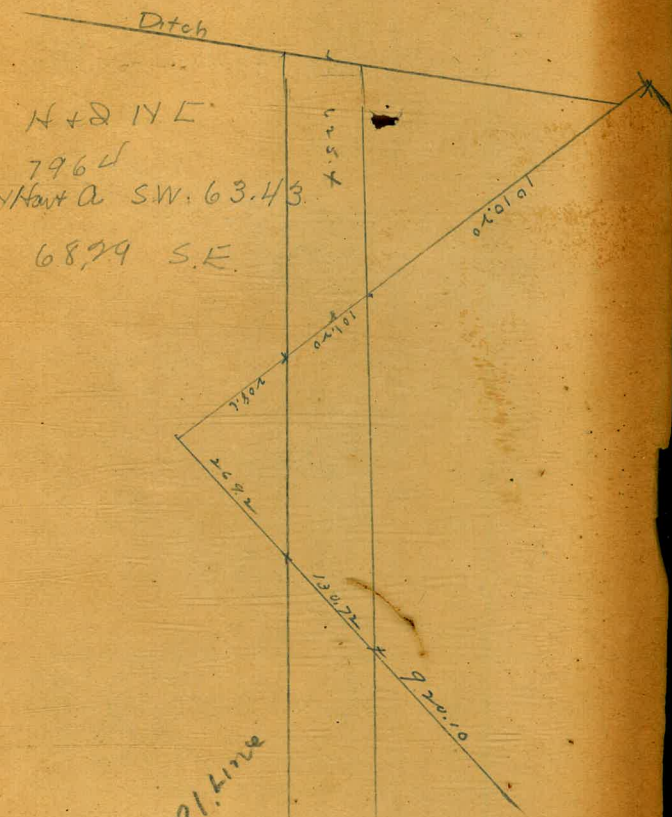
K.

117.8
118.8

13.75 / 907 / 11 (4.68) — 13.75 / 942 / 1333 — 13.72 / 904 / 4.68 — 13.72 — 13.63 / 193 / 11 (4.73) — 13.48 / 176 / 11 (4.72) — 13.27 / 183 / 11 (4.74)

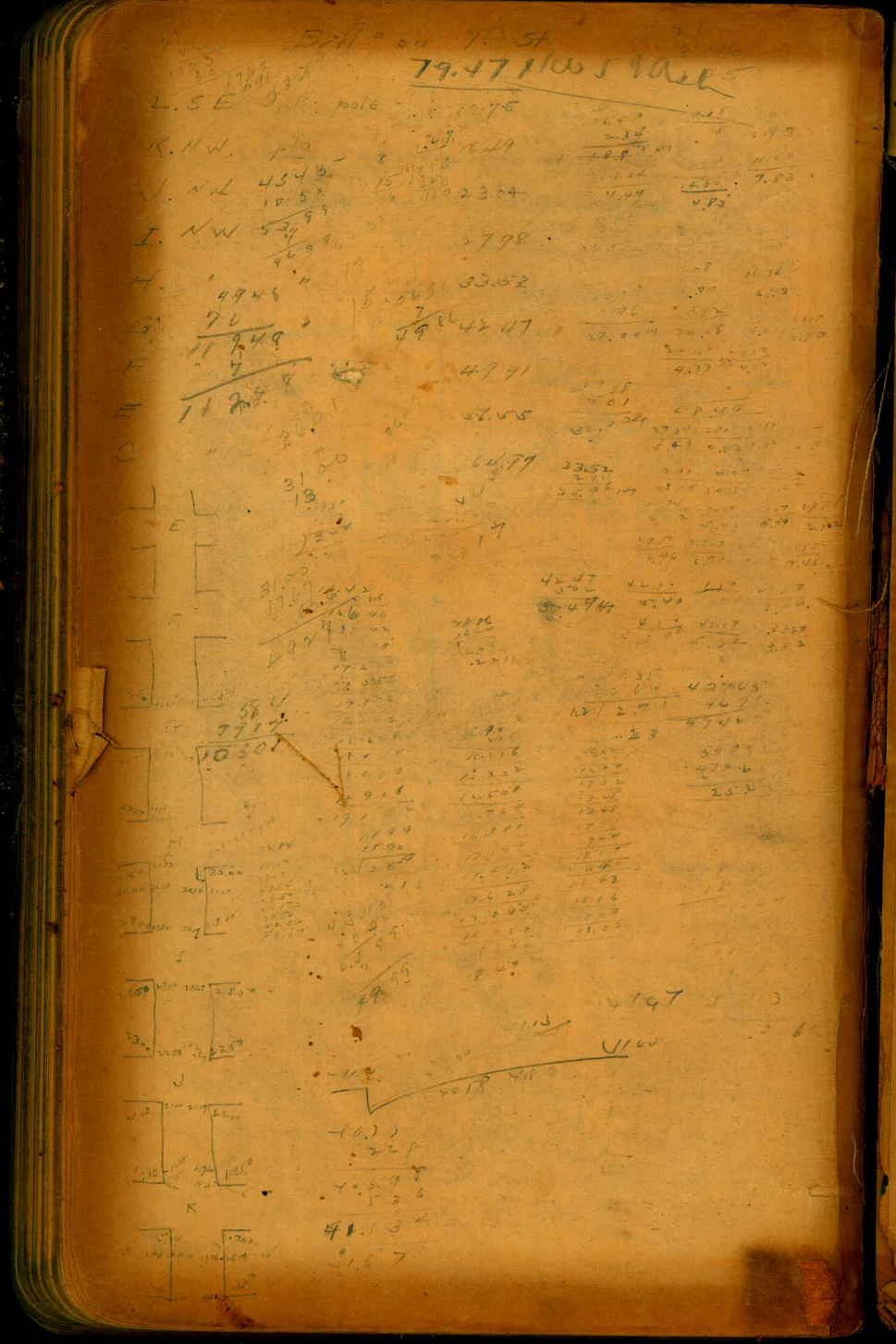
21.58 / 1899 / 11 (2.539) / 2.35 — 21.96 / 1831 / 11 (2.60) — 6.55 / 571 / 11 (2.67) — 22.46 / 19.85 / 11 (2.67) / 2.4 — 22.40 / 1810 / 11 (2.60) / 2.4 — 22.4 / 1963 / 11 (2.61) / 2.4

56.55 B.M. 3 1.90 / 5.71 N.W.E. — 2.56 / 5.05 — 2.16 / 55.45 — 54.61 H.I.




H + D N.E.
7964
Mon Hart a S.W. 63.43
68.79 S.E.

24+82.2 Pl. Line



550

d by H. S. CROCKER COMPANY, Stationers, Drawing
s, and Mathematical Instruments, San Francisco.

*Table showing the difference of latitude and departure in running 80 chains at any course from 1 to 60 minutes.*

| MINUTES. | LKS. | MINUTES. | LKS. | MINUTES. | LKS. |
|---|---|---|---|---|---|
| 1 | 2⅓ | 21 | 49 | 41 | 95⅔ |
| 2 | 4⅔ | 22 | 51⅓ | 42 | 98 |
| 3 | 7 | 23 | 53⅔ | 43 | 100⅓ |
| 4 | 9⅓ | 24 | 56 | 44 | 102⅔ |
| 5 | 11⅔ | 25 | 58⅓ | 45 | 105 |
| 6 | 14 | 26 | 60⅔ | 46 | 107⅓ |
| 7 | 16⅓ | 27 | 63 | 47 | 109⅔ |
| 8 | 18⅔ | 28 | 65⅓ | 48 | 112 |
| 9 | 21 | 29 | 67⅔ | 49 | 114⅓ |
| 10 | 23⅓ | 30 | 70 | 50 | 116⅔ |
| 11 | 25⅔ | 31 | 72⅓ | 51 | 119 |
| 12 | 28 | 32 | 74⅔ | 52 | 121⅓ |
| 13 | 30⅓ | 33 | 77 | 53 | 123⅔ |
| 14 | 32⅔ | 34 | 79⅓ | 54 | 126 |
| 15 | 35 | 35 | 81⅔ | 55 | 128⅓ |
| 16 | 37⅓ | 36 | 84 | 56 | 130⅓ |
| 17 | 39⅔ | 37 | 86⅓ | 57 | 133 |
| 18 | 42 | 38 | 88⅔ | 58 | 135⅓ |
| 19 | 44⅓ | 39 | 91 | 59 | 137⅔ |
| 20 | 46⅔ | 40 | 93⅓ | 60 | 140 |

## TABLE FOR RUNNING ON SLOPES.

*In the following table the first column shows the angle, the second the number of links to be added to a chain on the slopes, to make one chain, horizontal measurement.*

| ANGLE | COR. IN LINKS | ANGLE | COR. IN LINKS | ANGLE | COR. IN LINKS | ANGLE | COR. IN LINKS |
|---|---|---|---|---|---|---|---|
| ° | | ° | | ° | | ° | |
| 4 | 0.24 | 11 | 1.88 | 18 | 5.14 | 25 | 10.54 |
| 5 | 0.38 | 12 | 2.24 | 19 | 5.76 | 26 | 11.26 |
| 6 | 0.55 | 13 | 2.63 | 20 | 6.42 | 27 | 12.24 |
| 7 | 0.76 | 14 | 3.06 | 21 | 7.11 | 28 | 13.37 |
| 8 | 0.98 | 15 | 3.53 | 22 | 7.85 | 29 | 14.34 |
| 9 | 1.24 | 16 | 4.02 | 23 | 8.64 | 30 | 15.47 |
| 10 | 1.55 | 17 | 4.56 | 24 | 9.47 | 35 | 22.07 |