

SEWERAGE
GRADES

Field Book

1ST ST
2ND ST

3RD ST
4TH ST

9

TRANSIT

F.B. 645

| 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 | 1.74 | 99.98 | 2.18 | 99.97 | 2.62 | 99.95 | 3.05 | 89 |
| 2 | 99.94 | 3.49 | 99.92 | 3.93 | 99.91 | 4.36 | 99.88 | 4.80 | 89 |
| 3 | 99.86 | 5.23 | 99.84 | 5.67 | 99.81 | 6.10 | 99.79 | 6.54 | 89 |
| 4 | 99.76 | 6.98 | 99.73 | 7.41 | 99.70 | 7.85 | 99.66 | 8.28 | 89 |
| 5 | 99.62 | 8.72 | 99.58 | 9.15 | 99.54 | 9.58 | 99.50 | 10.02 | 89 |
| 6 | 99.45 | 10.45 | 99.41 | 10.89 | 99.36 | 11.32 | 99.31 | 11.75 | 89 |
| 7 | 99.25 | 12.19 | 99.20 | 12.62 | 99.14 | 13.05 | 99.09 | 13.49 | 89 |
| 8 | 99.03 | 13.92 | 98.97 | 14.35 | 98.90 | 14.78 | 98.84 | 15.21 | 89 |
| 9 | 98.77 | 15.64 | 98.70 | 16.07 | 98.61 | 16.50 | 98.56 | 16.93 | 89 |
| 10 | 98.48 | 17.36 | 98.40 | 17.79 | 98.33 | 18.22 | 98.25 | 18.65 | 89 |
| 11 | 98.16 | 19.08 | 98.08 | 19.51 | 97.99 | 19.94 | 97.90 | 20.36 | 89 |
| 12 | 97.81 | 20.79 | 97.72 | 21.22 | 97.63 | 21.64 | 97.53 | 22.07 | 89 |
| 13 | 97.44 | 22.50 | 97.34 | 22.92 | 97.24 | 23.34 | 97.13 | 23.77 | 89 |
| 14 | 97.03 | 24.19 | 96.92 | 24.62 | 96.81 | 25.04 | 96.70 | 25.46 | 89 |
| 15 | 96.59 | 25.88 | 96.48 | 26.30 | 96.36 | 26.72 | 96.25 | 27.14 | 89 |
| 16 | 96.13 | 27.56 | 96.00 | 27.98 | 95.88 | 28.40 | 95.76 | 28.82 | 89 |
| 17 | 95.63 | 29.24 | 95.50 | 29.65 | 95.37 | 30.07 | 95.24 | 30.49 | 89 |
| 18 | 95.11 | 30.90 | 94.97 | 31.32 | 94.83 | 31.73 | 94.69 | 32.14 | 89 |
| 19 | 94.55 | 32.56 | 94.41 | 32.97 | 94.26 | 33.38 | 94.12 | 33.70 | 89 |
| 20 | 93.97 | 34.20 | 93.82 | 34.61 | 93.67 | 35.02 | 93.51 | 35.43 | 89 |
| 21 | 93.38 | 35.84 | 93.20 | 36.24 | 93.04 | 36.65 | 92.88 | 37.06 | 89 |
| 22 | 92.73 | 37.46 | 92.55 | 37.86 | 92.39 | 38.27 | 92.22 | 38.67 | 89 |
| 23 | 92.02 | 39.07 | 91.88 | 39.47 | 91.71 | 39.87 | 91.53 | 40.27 | 89 |
| 24 | 91.35 | 40.67 | 91.18 | 41.07 | 91.00 | 41.47 | 90.81 | 41.87 | 89 |
| 25 | 90.63 | 42.24 | 90.45 | 42.66 | 90.26 | 43.05 | 90.07 | 43.44 | 89 |
| 26 | 89.88 | 43.84 | 89.69 | 44.23 | 89.49 | 44.62 | 89.30 | 45.01 | 89 |
| 27 | 89.10 | 45.44 | 88.90 | 45.79 | 88.70 | 46.17 | 88.50 | 46.56 | 89 |
| 28 | 88.29 | 46.94 | 88.09 | 47.33 | 87.88 | 47.72 | 87.67 | 48.10 | 89 |
| 29 | 87.46 | 48.43 | 87.25 | 48.86 | 87.04 | 49.24 | 86.82 | 49.62 | 89 |
| 30 | 86.60 | 50.00 | 86.38 | 50.38 | 86.16 | 50.75 | 85.94 | 51.13 | 89 |
| 31 | 85.72 | 51.50 | 85.49 | 51.88 | 85.26 | 52.25 | 85.04 | 52.62 | 89 |
| 32 | 84.80 | 52.99 | 84.57 | 53.36 | 84.31 | 53.73 | 84.10 | 54.10 | 89 |
| 33 | 83.87 | 54.46 | 83.63 | 54.83 | 83.39 | 55.19 | 83.15 | 55.56 | 89 |
| 34 | 82.90 | 55.92 | 82.66 | 56.28 | 82.41 | 56.64 | 82.16 | 57.00 | 89 |
| 35 | 81.92 | 57.39 | 81.66 | 57.71 | 81.41 | 58.07 | 81.16 | 58.42 | 89 |
| 36 | 80.90 | 58.78 | 80.64 | 59.13 | 80.39 | 59.48 | 80.13 | 59.83 | 89 |
| 37 | 79.86 | 60.18 | 79.60 | 60.53 | 79.34 | 60.88 | 79.07 | 61.22 | 89 |
| 38 | 78.80 | 61.57 | 78.53 | 61.91 | 78.26 | 62.25 | 77.99 | 62.59 | 89 |
| 39 | 77.71 | 62.93 | 77.44 | 63.27 | 77.16 | 63.61 | 76.88 | 63.94 | 89 |
| 40 | 76.60 | 64.28 | 76.32 | 64.61 | 76.04 | 64.94 | 75.76 | 65.28 | 89 |
| 41 | 75.47 | 65.61 | 75.18 | 65.93 | 74.90 | 66.26 | 74.61 | 66.59 | 89 |
| 42 | 74.31 | 66.91 | 74.02 | 67.24 | 73.73 | 67.56 | 73.43 | 67.88 | 89 |
| 43 | 73.14 | 68.20 | 72.84 | 68.52 | 72.54 | 68.84 | 72.24 | 69.15 | 89 |
| 44 | 71.93 | 69.47 | 71.63 | 69.78 | 71.33 | 70.09 | 71.02 | 70.40 | 89 |
| 45 | 70.71 | 70.71 | | | | | | | 89 |

MICROFILMED
DEC 14 1964

13' Pelon Siwalk Land

3/4

*6
100*

64

INDEX

| Street | Location | Pages |
|-------------------|----------------------|-------------------|
| 1st St | N of I St | 2--8 |
| 2nd St | N of J St | 9--14 |
| 3rd St | N of K St | 16--27 |
| 3rd St | N of Q St | 22--27 |
| 4th St | N of R St | 30--45 |

Degrees. DE
Lat

0 99.94
1 99.91
2 99.88
3 99.84
4 99.79
5 99.67
6 99.43
7 99.22
8 99.03
9 98.77
10 98.44

11 98.10
12 97.81
13 97.44
14 97.01
15 96.55
16 96.11
17 95.63
18 95.11
19 94.54
20 93.97

21 93.34
22 92.72
23 92.03
24 91.35
25 90.63
26 89.88
27 89.10
28 88.29
29 87.46
30 86.60

31 85.72
32 84.80
33 83.87
34 82.90
35 81.92
36 80.90
37 79.86
38 78.80
39 77.71
40 76.60

41 75.47
42 74.31
43 73.14
44 71.93
45 70.71

Degrees. DE
Dep. DE

Published

1st St 10 of J

| Sta | Elev | Grd | Cut | | |
|-------|--------|-------|-------|----|------------|
| 0 | 9.08 | -2.15 | 11.33 | 11 | 4' |
| +25 | 8.53 | -0.60 | 9.13 | 9 | 1 5/8' |
| +36 | 8.92 | +0.13 | 8.79 | 8 | 4 1/2' |
| +46 | 9.04 | +0.79 | 8.25 | 8 | 3' |
| +55 | 9.25 | 1.38 | 7.88 | 7 | 10 3/4' |
| +65 | 9.52 | 2.04 | 7.48 | 7 | 5 3/4' |
| +75 | 9.73 | 2.70 | 7.03 | 7 | 4' |
| +81.2 | 10.174 | 3.10 | 6.64 | 6 | 7 3/4' |
| 1 | 9.27 | 3.10 | 6.17 | | 6' 2" |
| +50 | 10.25 | 3.41 | 6.84 | | 6' 10 1/8" |
| 2 | 11.25 | 3.73 | 7.52 | | 7' 6 1/4" |
| +50 | 11.80 | 4.04 | 7.76 | | 7' 9 1/8" |
| 3 | 11.98 | 4.35 | 7.63 | | 7' 7 1/2" |
| +25 | | 4.50 | | | |
| +50 | 12.64 | 4.66 | 7.98 | | 7' 11 3/4" |
| +75 | 13.12 | 4.82 | 8.30 | | 8' 3 5/8" |
| 4 | 11.72 | 4.98 | 6.74 | | 6' 8 1/8" |
| +25 | 11.22 | 5.13 | 6.07 | | 6' 1 1/2" |
| +50 | 11.84 | 5.29 | 6.55 | | 6' 6 3/8" |
| +75 | 11.77 | 5.44 | 6.33 | | 6' 4" |

0.911
1.160
5.04 H

15 E P.C. 7

1

-4.22
1.93
-2.29

0+71.21 I B M

I I B M

Empire Hill 6.1312 P.C. P.C. Ang 12

1st St Wolf

| Sta | El | Grd | Cut | |
|------|-------|------|------|--------------------------------------------|
| 5 | 12.58 | 5.60 | 6.98 | 6' 11 ³ / ₄ " N of H |
| +25 | 13.88 | 5.75 | 8.13 | 8' 1 ¹ / ₂ " |
| +50 | 14.02 | 5.91 | 8.11 | 8' 1 ³ / ₈ " |
| +75 | 14.36 | 5.07 | 8.29 | 8' 3 ¹ / ₂ " |
| 6 | 13.88 | 6.23 | 7.65 | 7' 7 ¹ / ₈ " |
| 6+25 | 14.45 | 6.38 | 8.07 | 8' 0 ¹ / ₈ " |
| +50 | 14.51 | 6.54 | 7.97 | 7' 11 ³ / ₈ " |
| +75 | 14.14 | 6.62 | 7.45 | 7' 5 ³ / ₈ " |
| 7 | 14.32 | 6.85 | 7.47 | 7' 5 ⁵ / ₈ " |
| 7+25 | 13.63 | 7.50 | 6.63 | 6' 7 ¹ / ₂ " |
| +50 | 14.46 | 7.16 | 7.30 | 7' 3 ¹ / ₈ " |
| +75 | 14.65 | 7.32 | 7.33 | 7' 4" |
| 8 | 14.74 | 7.48 | 7.26 | 7' 3 ¹ / ₈ " L2 |
| +20 | | 7.60 | | |
| +40 | 13.98 | 7.73 | 6.25 | 6' 3" G |
| | | 7.55 | | |
| +80 | 13.44 | 7.98 | 5.46 | 5' 5 ¹ / ₈ " N2 |
| 9+05 | 13.21 | 8.13 | 5.09 | 5' 1" |
| 9+30 | 13.49 | 8.29 | 5.20 | 5' 2 ³ / ₈ " |
| +55 | 13.39 | 8.44 | 5.14 | 5' 1 ⁵ / ₈ " |
| +80 | 13.53 | 8.60 | 4.93 | 4' 11 ¹ / ₈ " |

Inspection Hole Goshua River Pt. Aug 15

Aug 18th 1897

1st. SH W of J

| Site | El | hd | cut | |
|-------|-------|-------|------|------------|
| 10+05 | 13.92 | 8.76 | 5.16 | 5' 1 1/2" |
| +30 | 14.32 | 8.91 | 5.41 | 5' 4 1/8" |
| +55 | 14.42 | 9.07 | 5.35 | 5' 4 3/8" |
| +80 | 14.59 | 9.23 | 5.36 | 5' 4 1/4" |
| 11+05 | 15.14 | 9.39 | 5.75 | 5' 9" |
| +30 | 15.33 | 9.54 | 5.79 | 5' 9 1/2" |
| +55 | 15.73 | 9.70 | 6.03 | 6' 0 3/4" |
| +80 | 15.93 | 9.85 | 6.08 | 6' 1" |
| 12 | | | | |
| 12+20 | 17.25 | 10.10 | 7.18 | 7' 2 1/2" |
| +40 | | | | |
| +60 | 16.92 | 10.93 | 5.99 | 5' 11 1/2" |
| 12+85 | 17.24 | 11.45 | 5.41 | 5' 9 3/8" |
| 13+10 | 17.76 | 11.98 | 5.78 | 5' 9 3/8" |
| +35 | 18.19 | 12.50 | 5.69 | 5' 8 1/4" |
| +60 | 18.76 | 13.02 | 5.74 | 5' 8 5/8" |
| +85 | 19.34 | 13.54 | 5.80 | 5' 9 5/8" |
| 14+10 | 21.06 | 14.06 | 6.00 | 6' 0" |
| +35 | 20.84 | 14.58 | 6.26 | 6' 3 3/8" |
| +60 | 21.24 | 15.10 | 6.14 | 6' 1 3/4" |
| +85 | 21.97 | 15.62 | 6.35 | 6' 4 1/4" |

1.160
DL

1.148
DL

2.08333

11+79
Inspection Hole 6 Easta Parris Paper Aug 17

1st M-10 of 8

| Sta | El | Grad | Cut | |
|-----------|-------|-------|------|----------------------|
| 15+10 | 22.80 | 16.14 | 6.66 | 6'7 $\frac{1}{2}$ " |
| +35 | 23.26 | 16.66 | 6.60 | 6'7 $\frac{1}{4}$ " |
| +60 | 23.90 | 17.18 | 6.72 | 6'9 $\frac{1}{2}$ " |
| +80 | 24.76 | 17.60 | 7.26 | 7'9 $\frac{1}{2}$ " |
| 16 | 25.35 | 18.01 | 7.94 | 7'4 $\frac{1}{2}$ " |
| +20 | 25.04 | 18.43 | 6.61 | 6'7 $\frac{1}{4}$ " |
| +40 | 25.60 | 18.85 | 6.75 | 6'9" |
| +60 | 26.04 | 19.37 | 6.67 | 6'8" |
| +70 | 26.44 | 19.89 | 6.55 | 6'6 $\frac{1}{2}$ " |
| 17+15 | 26.87 | 20.71 | 6.46 | 6'5 $\frac{1}{2}$ " |
| 17+40 | 27.34 | 20.93 | 6.41 | 6'4 $\frac{1}{2}$ " |
| +60 | 28.11 | 21.45 | 6.66 | 6'7 $\frac{1}{2}$ " |
| +70 | 28.59 | 21.98 | 6.61 | 6'7 $\frac{1}{4}$ " |
| 18+15 | 29.82 | 22.50 | 6.92 | 6'9 $\frac{1}{2}$ " |
| 18+40 | 29.47 | 23.02 | 6.45 | 6'5 $\frac{1}{2}$ " |
| +60 | 29.88 | 23.54 | 6.94 | 6'4 $\frac{1}{2}$ " |
| +70 | 30.30 | 24.06 | 6.24 | 6'2 $\frac{1}{2}$ " |
| 19+25 | 31.26 | 24.79 | 6.27 | 6'9 $\frac{1}{4}$ " |
| +50 | 32.20 | 25.31 | 6.89 | 6'10 $\frac{1}{2}$ " |
| +75 | 33.00 | 25.88 | 7.17 | 7'2" |
| (19+87.5) | 26.10 | | | |

Inspection Hole 6 extra Pines Pipe

Elev Grad cut

18+40 29.54 23.02 6.52 6'6 $\frac{1}{4}$ "18+90 30.33 24.06 6.27 6'2 $\frac{1}{4}$ "

19+25 Inspection Hole 6 extra Pines Pipe Aug 24

1st St N of ♂

| Sta | El | Ind | Cut | |
|-----|-------|-------|------|---------------------------|
| 20 | 32.87 | 26.17 | 6.70 | 6' 8 $\frac{3}{4}$ " |
| +25 | 32.08 | 26.32 | 5.76 | 5' 9 $\frac{1}{2}$ " |
| +50 | 32.47 | 26.47 | 6.00 | 6' 00" N30° |
| +75 | 32.68 | 26.61 | 6.07 | 6' 0 $\frac{1}{2}$ " |
| 21 | 33.24 | 26.76 | 6.48 | 6' 5 $\frac{3}{4}$ " |
| +25 | 33.44 | 26.91 | 6.53 | 6' 6 $\frac{3}{4}$ " |
| +50 | 33.61 | 27.06 | 6.55 | 6' 6 $\frac{5}{8}$ " |
| +75 | 33.82 | 27.20 | 6.62 | 6' 7 $\frac{1}{2}$ " |
| 22+ | 34.09 | 27.35 | 6.74 | 6' 8 $\frac{7}{8}$ " |
| +25 | 33.92 | 27.50 | 6.42 | 6' 5" |
| +50 | 34.14 | 27.64 | 6.40 | 6' 4 $\frac{3}{4}$ " |
| +75 | 33.99 | 27.79 | 6.20 | 6' 2 $\frac{3}{8}$ " |
| 23 | 34.17 | 27.94 | 6.23 | 6' 2 $\frac{3}{4}$ " |
| +21 | 34.27 | 28.06 | 6.21 | 6' 2 $\frac{1}{2}$ " S2 E |
| +40 | 33.76 | 28.18 | 5.58 | 5' 7" |
| +60 | 34.39 | 28.29 | 6.10 | 6' 1 $\frac{1}{4}$ " C |
| +80 | 34.42 | 28.41 | 6.01 | 6' 0 $\frac{1}{2}$ " |
| 24 | 34.49 | 28.53 | 5.96 | 5' 11 $\frac{1}{2}$ " N C |
| +25 | 34.28 | 28.68 | 5.60 | 5' 7 $\frac{1}{4}$ " |
| +50 | 34.32 | 28.82 | 5.50 | 5' 6" |
| +75 | 34.54 | 28.97 | 5.57 | 5' 6 $\frac{3}{4}$ " |

Aug 20/87

1:170

Aug 30
23+21 Disposition Hole. 6 extra Basin Pits

1st St. No. 8

| Stn | El | Grd | Cut | |
|-------|-------|-------|------|-----------------------|
| 25 | 35.19 | 29.11 | 6.08 | 6' 1" |
| +25 | 35.50 | 29.26 | 6.24 | 6' 2 $\frac{3}{4}$ " |
| +50 | 35.53 | 29.41 | 6.12 | 6' 1 $\frac{1}{2}$ " |
| +75 | 35.96 | 29.56 | 6.40 | 6' 4 $\frac{3}{4}$ " |
| 26 | 35.94 | 29.70 | 6.24 | 6' 2 $\frac{3}{4}$ " |
| +25 | 36.03 | 29.85 | 6.18 | 6' 2 $\frac{3}{4}$ " |
| +50 | 36.00 | 30.00 | 6.00 | 6' 0" |
| +75 | 36.13 | 30.14 | 5.99 | 5' 11 $\frac{3}{4}$ " |
| 27 | 36.50 | 30.29 | 6.21 | 6' 2 $\frac{1}{2}$ " |
| +20 | 36.16 | 30.41 | 5.75 | 5' 9" |
| +40 | 36.80 | 30.53 | 6.27 | 6' 3 $\frac{1}{4}$ " |
| +60 | | 30.64 | | |
| +80 | 38.04 | 30.76 | 7.28 | 7' 3 $\frac{3}{4}$ " |
| 28+15 | 38.78 | 31.66 | 7.12 | 7' 1 $\frac{1}{2}$ " |
| 28+30 | 39.83 | 32.55 | 7.28 | 7' 3 $\frac{3}{4}$ " |
| +55 | 41.09 | 33.45 | 7.64 | 7' 7 $\frac{3}{4}$ " |
| +80 | 40.40 | 34.34 | 6.06 | 6' 0 $\frac{3}{4}$ " |
| 29+05 | 40.76 | 35.24 | 5.52 | 5' 6 $\frac{1}{4}$ " |
| 29+30 | 41.57 | 36.13 | 5.44 | 5' 5 $\frac{1}{4}$ " |
| +55 | 48.01 | 37.03 | 5.98 | 5' 11 $\frac{3}{4}$ " |
| +80 | 48.97 | 37.92 | 5.95 | 5' 11 $\frac{3}{4}$ " |

1170

N & B

Sept. 1187
Inspection Hole 6 Extra Pipe on Pipe

B

X

N & B

3.58
100

1st N of S

Sta El. End Cut

| | | | | | |
|-------|-------|-------|------|------------------------------------|-------------|
| 30+05 | 44.22 | 38.82 | 5.40 | 5' 4 ³ / ₄ " | 3.57 100 |
| 30+30 | 45.48 | 39.71 | 5.72 | 5' 9 ⁵ / ₈ " | |
| +55 | 46.87 | 40.61 | 5.76 | 5' 9 ¹ / ₄ " | |
| +80 | 47.68 | 41.50 | 6.18 | 6' 2 ¹ / ₂ " | X |
| 31 | 48.17 | 42.03 | 6.14 | 6' 1 ⁵ / ₈ " | A |
| 31+20 | | 42.55 | | | |
| +40 | | 43.08 | | | |
| +60 | | 43.60 | | | |
| +85 | | 44.26 | | | |
| 32+10 | | 44.92 | | | |
| +35 | | 45.55 | | | |
| +60 | | 46.24 | | | |
| +85 | | 46.89 | | | |
| 33+10 | | 47.55 | | | |
| +35 | | 48.21 | | | |
| +60 | | 48.87 | | | |
| +85 | | 49.53 | | | |
| 34+10 | | 50.18 | | | |
| +35 | | 50.84 | | | |
| +60 | | 51.50 | | | |

2.6316
1000

End of Johnson's contract

W. L. Lusk

x

2nd St N of J

| Sta | El | Ind | cut | |
|------|------|-------|------|-----------|
| 0 | 3.08 | -2.16 | 5.24 | 5' 27/8 |
| +9 | 3.90 | -2.12 | 6.02 | 6' 1/4 |
| +18 | 3.96 | -2.07 | 6.03 | 6' 3/8 |
| +27 | 4.16 | -2.02 | 6.18 | 6' 2 1/8 |
| +36 | 4.24 | -1.97 | 6.21 | 6' 2 1/2 |
| +44 | 4.28 | -1.91 | 6.19 | 6' 2 1/4 |
| 1 | 3.47 | -1.71 | 5.38 | 5' 4 1/2" |
| +30 | 3.31 | -1.55 | 4.86 | |
| 2 | 3.44 | -1.20 | 4.64 | |
| +50 | 4.40 | -0.84 | 5.24 | |
| 3 | 5.03 | -0.48 | 5.51 | |
| +50 | 5.62 | -0.12 | 5.74 | |
| 4 | 5.90 | 0.23 | 5.67 | |
| +40 | 5.87 | 0.59 | 5.28 | |
| +80 | 6.23 | 0.88 | 5.35 | |
| 5730 | 6.38 | 1.16 | 5.22 | |
| +80 | 6.71 | 1.52 | 5.39 | |
| 6430 | 7.42 | 1.88 | 5.54 | |
| +80 | 8.03 | 2.23 | 5.80 | |

P.C.

N. of St - P.T.

N. of St

L. Inspection 12th 6 center River Pipe

S. Line I

W. Line I

2nd St - N of J

| Sta | El | In | Out | |
|-------|-------|-------|------|---------------------------------------------|
| 7+30 | 8.27 | 2.57 | 5.68 | |
| +80 | 9.15 | 2.95 | 6.20 | S of H |
| 8+30 | 10.03 | 3.30 | 6.73 | H St |
| +80 | 9.65 | 3.93 | 5.72 | W of H |
| 9+30 | 7.79 | 4.55 | 5.24 | |
| +80 | 10.73 | 5.18 | 5.55 | |
| 10+30 | 11.85 | 5.80 | 6.05 | |
| +80 | 12.67 | 6.43 | 6.24 | |
| 11+30 | 13.31 | 7.05 | 6.26 | |
| +80 | 13.86 | 7.68 | 6.18 | S line G |
| 12+20 | 14.08 | 8.17 | 5.91 | 5' 10 ³ / ₄ " |
| | | 8.17 | | |
| +60 | 15.08 | 8.67 | 6.36 | 6' 4 ³ / ₄ " N line G |
| +85 | 15.42 | 8.98 | 6.44 | 6' 5 ¹ / ₄ " |
| 13+10 | 15.70 | 9.30 | 6.40 | 6' 4 ³ / ₄ " |
| +35 | 16.19 | 9.61 | 6.58 | 6' 7" |
| +60 | 16.72 | 9.93 | 6.79 | 6' 9 ¹ / ₂ " |
| +85 | 17.08 | 10.23 | 6.85 | 6' 10 ¹ / ₂ " |
| 14+10 | 17.63 | 10.55 | 7.08 | 7' 1" |
| +85 | 18.15 | 10.86 | 7.29 | 7' 3 ¹ / ₂ " |
| +60 | 18.29 | 11.17 | 7.12 | 7' 1 ¹ / ₂ " |

1:140

X

1:180

7+30 Inspection Hole 6 extra Pieces Paper

Inspection Hole 6 extra Pieces Paper
G St.

2nd H. H. J.

| Sta | El | rod | cut | |
|-------|-------|-------|------|--------------------------------------|
| 14+85 | 18.86 | 11.49 | 7.38 | 7' 4 ⁵ / ₁₆ " |
| 15+10 | 18.64 | 11.80 | 6.84 | 6' 10 ¹ / ₁₆ " |
| 15+35 | 18.82 | 12.11 | 6.71 | 6' 8 ¹ / ₂ " |
| 15+60 | 17.08 | 12.42 | 6.66 | 6' 7 ¹ / ₁₆ " |
| +80 | 19.74 | 12.67 | 7.07 | 7' 0 ³ / ₄ " |
| 16 | 19.95 | 12.92 | 7.03 | 7' 0 ³ / ₄ " |
| +20 | 19.84 | 13.17 | 6.67 | 6' 8 ¹ / ₂ " |
| +40 | 19.20 | 13.42 | 5.78 | 5' 9 ¹⁰ / ₁₆ " |
| +65 | 20.17 | 14.10 | 6.07 | 6' 0 ² / ₁₆ " |
| +80 | 21.41 | 14.77 | 6.64 | 6' 7 ² / ₁₆ " |
| 17+15 | 22.52 | 15.45 | 7.07 | 7' 0 ³ / ₄ " |
| 17+40 | 23.46 | 16.12 | 7.24 | 7' 2 ⁷ / ₁₆ " |
| +65 | 24.40 | 16.80 | 7.60 | 7' 7 ¹ / ₄ " |
| +90 | 24.99 | 17.47 | 7.52 | 7' 6 ⁷ / ₁₆ " |
| 18+15 | 25.45 | 18.15 | 7.80 | 7' 8 ⁵ / ₁₆ " |
| 19+40 | 26.25 | 18.83 | 7.42 | 7' 5 ¹¹ / ₁₆ " |
| +65 | 26.31 | 19.50 | 6.81 | 6' 9 ³ / ₄ " |
| +90 | 27.16 | 20.18 | 6.98 | 6' 11 ¹ / ₁₆ " |
| 19+15 | 27.91 | 20.85 | 7.06 | 7' 0 ³ / ₄ " |
| 19+40 | 29.12 | 21.53 | 7.59 | 7' 7 ¹ / ₈ " |
| +65 | 29.71 | 22.07 | 7.64 | 7' 7 ¹ / ₂ " |

Inspection Hole 6 Extra Riser Pipe

Inspection Hole 6 Extra Riser Pipe Aug 26

2nd St. N. of J

| Sta | El | Grid | Cont | | |
|-------|-------|-------|------|-----------------------|-------|
| 19+20 | 29.48 | 22.61 | 6.87 | 6' 10 $\frac{1}{2}$ " | E |
| 20 | 30.45 | 23.15 | 7.30 | 7' 3 $\frac{1}{2}$ " | |
| 20+20 | 31.88 | 23.67 | 7.39 | 7' 4 $\frac{3}{4}$ " | NSE |
| +45 | 31.22 | 24.37 | 6.85 | 6' 10 $\frac{1}{4}$ " | |
| +70 | 31.57 | 25.04 | 6.58 | 6' 6 $\frac{3}{8}$ " | |
| +95 | 32.24 | 25.72 | 6.52 | 6' 6 $\frac{1}{4}$ " | 1.37 |
| 21+20 | 32.65 | 26.39 | 6.25 | 6' 3 $\frac{1}{4}$ " | |
| +45 | 33.81 | 27.07 | 6.24 | 6' 2 $\frac{1}{2}$ " | |
| +70 | 33.79 | 27.74 | 6.04 | 6' 0 $\frac{1}{2}$ " | X |
| +95 | 34.41 | 27.91 | 6.50 | 6' 6" | |
| 22+20 | 34.58 | 28.08 | 6.50 | 6' 6" | |
| +45 | 35.18 | 28.24 | 6.94 | 6' 11 $\frac{1}{4}$ " | |
| +70 | 35.50 | 28.42 | 7.04 | 7' 1" | |
| 23+05 | 35.89 | 28.65 | 6.94 | 6' 11 $\frac{1}{4}$ " | |
| +30 | 35.37 | 29.81 | 6.56 | 6' 6 $\frac{3}{4}$ " | 1.100 |
| +55 | 36.28 | 28.98 | 7.90 | 7' 9 $\frac{1}{2}$ " | |
| +80 | 36.14 | 29.15 | 6.99 | 6' 11 $\frac{3}{4}$ " | |
| 24+05 | 35.43 | 29.31 | 6.12 | 6' 1 $\frac{1}{2}$ " | |
| 24+30 | 35.59 | 29.48 | 6.71 | 6' 1 $\frac{3}{4}$ " | VSP |
| 24+55 | 36.12 | 29.65 | 6.47 | 6' 5 $\frac{1}{2}$ " | NSE |

87
23
4

L. 2. 6

N. 2. 8

2nd St. W of J

| Sta | El | Grid | Cut | |
|-------|-------|-------|------|-----------------------|
| 24+50 | 36.96 | 29.11 | 7.15 | 7' 1 $\frac{3}{4}$ " |
| 25+00 | 37.92 | 29.98 | 7.94 | 7' 11 $\frac{1}{4}$ " |
| 25+30 | 38.59 | 30.15 | 8.44 | 8' 5 $\frac{1}{2}$ " |
| +55 | 38.64 | 30.31 | 8.37 | 8' 4 $\frac{1}{2}$ " |
| +80 | 38.54 | 30.48 | 8.06 | 8' 0 $\frac{3}{4}$ " |
| 26+00 | 38.40 | 30.65 | 7.75 | 7' 9" |
| 26+30 | 38.32 | 30.81 | 7.51 | 7' 6 $\frac{1}{2}$ " |
| +55 | 38.04 | 30.94 | 7.06 | 7' 0 $\frac{3}{4}$ " |
| +80 | 38.34 | 31.15 | 7.23 | 7' 2 $\frac{3}{4}$ " |
| 27 | 38.41 | 31.28 | 7.13 | 7' 1 $\frac{1}{2}$ " |
| +20 | 37.61 | 31.41 | 6.20 | 6' 2 $\frac{3}{4}$ " |
| 27+40 | 37.79 | 31.55 | 6.24 | 6' 2 $\frac{3}{4}$ " |
| +60 | 37.66 | 31.64 | 5.94 | 5' 11 $\frac{1}{2}$ " |
| +80 | 38.19 | 31.81 | 6.34 | 6' 4 $\frac{3}{4}$ " |
| 28+10 | 38.23 | 31.94 | 6.25 | 6' 3" |
| 28+30 | 38.22 | 32.15 | 6.07 | 6' 0 $\frac{1}{2}$ " |
| +55 | 38.19 | 32.31 | 5.84 | 5' 10 $\frac{5}{8}$ " |
| +80 | 38.50 | 32.48 | 6.02 | 6' 0 $\frac{1}{2}$ " |
| 29+05 | 38.53 | 32.65 | 5.88 | 5' 10 $\frac{5}{8}$ " |
| 29+30 | 38.64 | 32.81 | 5.87 | 5' 10 $\frac{1}{2}$ " |

$$\frac{92}{85} = 1.08$$

25' 1"

S.L.C

N.L.C

2nd St. Mt. of J

| Sta | EL | Grid | Cut |
|-------|-------|-------|---------------------------|
| 29+55 | 38.74 | 32.98 | 5.76 5' 9 $\frac{1}{4}$ " |
| 29+80 | 38.88 | 33.15 | 5.73 5' 8 $\frac{3}{4}$ " |
| 29+05 | 39.00 | 33.31 | 5.69 5' 8 $\frac{3}{4}$ " |
| 30+30 | 39.28 | 33.48 | 5.80 5' 9 $\frac{5}{8}$ " |
| +55 | 39.48 | 33.65 | 5.83 5' 10" |
| 29+80 | 39.84 | 33.81 | 6.03 6' 0 $\frac{3}{4}$ " |
| 31 | 39.77 | 33.95 | 5.82 5' 9 $\frac{3}{4}$ " |
| 31+20 | | 34.08 | |
| +60 | | | |
| +60 | | 35.46 | |
| 32+10 | | 37.18 | |
| +60 | | 38.91 | |
| 33+10 | | 40.63 | |
| +60 | | 42.36 | |
| 34+10 | | 44.08 | |

1111

Bx

1.29

End of John Lane

2^d Sta W of J

14

Sta El. Grid Cont

34+60 45.80

35 47.18

+40 48.56

+90 50.28

36+40 52.01

+90 53.73

37+40 55.46

+90 57.18

38+40 1st Line Ash

a

1.29

3rd St Wof

Sta El Grd Cut

| | | | | | |
|--------|------|-------|------|----------|---|
| 0 | 2.69 | -1.80 | 4.49 | 4.57 1/4 | |
| +15 | 1.50 | -1.76 | 3.26 | 3 3/8 | |
| +23 | 1.53 | -1.74 | 3.27 | 3 3/8 | |
| +31 | 2.13 | -1.72 | 3.85 | 3 10/16 | |
| +39 | 2.34 | -1.70 | 4.04 | 4 1/2 | |
| +47 | 2.29 | -1.67 | 3.96 | 3 11/16 | |
| 55 | 2.45 | -1.65 | 4.10 | 4 1/4 | |
| +61-1 | 2.56 | -1.64 | 4.20 | 4 23/16 | |
| 1 | 2.37 | -1.64 | 4.01 | | ^ |
| +50 | 3.18 | -1.39 | 4.57 | | |
| 2 | 3.56 | -1.14 | 4.70 | | |
| +50 | 4.22 | -0.89 | 5.11 | | |
| 3 | 5.03 | -0.64 | 5.67 | | |
| +50 | 5.93 | -0.39 | 6.32 | | |
| 4 | 6.78 | -0.14 | 6.92 | x | |
| +40 | 7.02 | 0.06 | 6.96 | | |
| 50 | 7.58 | 0.68 | 6.90 | x | |
| +30 | 8.14 | 1.44 | 6.70 | | |
| +50 | 8.50 | 2.21 | 6.29 | | |
| +67-30 | 9.15 | 2.98 | 6.12 | | |
| +80 | 9.75 | 3.75 | 6.00 | | |

P.C.

N.I. Q. M.P.T.
N.I. Q. M.P.T.

S.L. I S.

N.L. I S.

11200

1165

30 St Woff

Sta El Gid Cut

7+30 10.66 4.52 6.14

+80 11.35 5.29 6.06 4

8+30 12.15 6.06 6.09

+80 12.70 6.83 5.87 -1

9+30 13.50 7.60 5.90

+80 14.32 8.37 5.95

10+30 15.22 9.14 6.08

+80 16.14 9.91 6.23

11+30 17.14 10.68 6.46

+80 18.20 11.44 6.76

12+20 18.72 12.06 6.66

+60 19.62 12.68 6.94

13+10 20.48 13.44 7.04

+60 21.17 14.21 6.96

14+10 21.98 14.98 7.00

+60 22.71 15.75 6.96

15+10 23.53 16.52 7.01

+60 24.48 17.29 7.19

16 24.90 17.90 7.00

+40 25.71 18.75 6.96 6'11 1/2

+90 26.66 19.81 6.85

H/H

1.538

1.65

9

F'X

1.471

SLH

NLF

1670
1640
30

SLB

NLB

SLF

NLF

3rd St. W of J

17

| Sta | El | Grid | Cut | | |
|-------|-------|-------|------|------------|-------|
| 17+40 | 27.83 | 20.88 | 6.95 | | |
| 18+90 | 29.06 | 21.94 | 7.12 | | |
| 18+40 | 30.08 | 23.01 | 7.07 | | |
| +90 | 31.17 | 24.07 | 7.10 | 7' 1/4" | |
| 19+40 | 32.21 | 25.14 | 7.07 | 7' 0 3/4" | 6 L E |
| 20+90 | 32.53 | 25.97 | 6.54 | 6' 6 1/2" | E |
| 20+20 | 33.13 | 26.14 | 6.29 | 6' 3 1/2" | Half |
| +45 | 33.47 | 27.37 | 6.10 | 6' 1 1/2" | 1 |
| +70 | 34.23 | 27.90 | 6.33 | 6' 4" | 1 |
| +95 | 34.89 | 28.44 | 6.45 | 6' 5 3/4" | 1 |
| 21+20 | 35.70 | 28.97 | 6.73 | 6' 8 1/2" | |
| +45 | 36.30 | 29.50 | 6.80 | 6' 9 1/2" | |
| +70 | 37.01 | 30.03 | 6.98 | 6' 11 3/4" | |
| +95 | 37.54 | 30.56 | 7.02 | 7' 0 1/4" | |
| 22+20 | 37.96 | 31.09 | 6.87 | 6' 10 1/2" | |
| +45 | 38.14 | 31.63 | 6.51 | 6' 6 1/2" | |
| +70 | 38.80 | 32.16 | 6.64 | 6' 7 1/8" | |
| 23+05 | 39.50 | 32.90 | 6.60 | 6' 7 1/4" | S.D |
| +80 | 39.79 | 33.43 | 6.36 | 6' 4 1/2" | |
| +575 | 40.84 | 34.52 | 6.32 | 6' 3 1/2" | X |

29+08 Inspection Hole 6 extra Pains Per
 South end of track

30 10 of J

Sta. C.C. Grad. Cont.

| | | | | | | |
|-------|-------|-------|------|------------|--------------|--------|
| 23+74 | 41.48 | 34.11 | 6.57 | 6' 6 7/8" | x 1200 | |
| 24 | 41.21 | 34.23 | 6.98 | 6' 11 3/4" | | |
| +25 | 41.49 | 34.44 | 7.05 | 7' 0 3/4" | | |
| +30 | 42.01 | 34.66 | 7.35 | 7' 1 1/4" | | |
| +75 | 42.07 | 34.87 | 7.20 | 7' 2 3/8" | | |
| 25 | 42.32 | 35.08 | 7.24 | 7' 2 3/8" | | |
| +25 | 42.37 | 35.30 | 7.07 | 7' 0 3/4" | | |
| +50 | 42.57 | 35.51 | 7.00 | 7' 0" | | |
| +75 | 42.67 | 35.72 | 6.85 | 6' 10 1/4" | | |
| 26 | 42.70 | 35.94 | 6.76 | 6' 9 3/4" | | |
| +25 | 42.67 | 36.15 | 6.52 | 6' 6 3/4" | .8538 100 | |
| +50 | 42.60 | 36.36 | 6.24 | 6' 2 3/4" | | |
| +75 | 42.60 | 36.58 | 6.02 | 6' 0 1/4" | | |
| 27 | 42.68 | 36.79 | 5.89 | 5' 10 3/4" | | |
| +20 | 42.67 | 36.96 | 5.71 | 5' 8 1/2" | | |
| +40 | 42.58 | 37.13 | 5.46 | 5' 5 3/4" | | C.P.T. |
| +60 | 42.60 | 37.30 | 5.30 | 5' 3 3/4" | | |
| +80 | 42.72 | 37.47 | 5.25 | 5' 3" | | |
| 28+05 | 42.74 | 37.69 | 5.06 | 5' 0 3/4" | | |
| +30 | 42.70 | 37.90 | 4.80 | 4' 9 3/4" | | |
| +55 | 42.91 | 38.11 | 4.80 | 4' 9 3/4" | | |

No. Curve 20'

3^d St W of J

Sta El. In. Cut

| | | | | |
|-------|-------|-------|------|--------------|
| 28+80 | 42.90 | 38.33 | 4.57 | 4' 6 3/8" |
| 29+05 | 43.16 | 38.54 | 4.62 | 4' 7 1/11" |
| 29+30 | 43.37 | 38.76 | 4.61 | 4' 7 3/8" |
| +55 | 43.45 | 38.97 | 4.48 | 4' 8 3/8" |
| 29+80 | 43.57 | 39.18 | 4.39 | 4' 4 3/8" |
| 30+05 | 43.90 | 39.40 | 4.50 | 4' 6" |
| 30+30 | 44.13 | 39.6 | 4.52 | 4' 6 1/2" |
| +55 | 44.04 | 39.82 | 4.22 | 4' 2 3/8" |
| +80 | 44.20 | 40.04 | 4.16 | 4' 1 3/8" |
| 31 | 44.46 | 40.21 | 4.25 | 4' 3" |
| 31+20 | 44.32 | 40.38 | 3.95 | 3' 11 3/8" B |
| +40 | | 40.55 | | |
| +60 | | 40.72 | | |
| +85 | | 40.93 | | |
| 32+10 | | 41.15 | | |
| +85 | | 41.36 | | |
| +60 | | 41.57 | | |
| +85 | | 41.79 | | |
| 33+10 | | 42.00 | | |
| +85 | | 43.30 | | |
| +60 | | 44.61 | | |

5217 X
100

3rd St. N of I.

| | | |
|--------|------------|---|
| 33 +85 | 45.91 | |
| 34 +10 | 47.22 | |
| +35 | 48.52 | |
| +60 | 49.83 | |
| +80 | 50.87 | |
| 35 | 51.91 | a |
| +20 | 52.96 | |
| +40 | 54.00 | X |
| +65 | 54.92 | |
| +90 | 55.83 | |
| 36 +15 | 56.75 | |
| 36 +40 | 57.67 | |
| +65 | 58.58 | |
| +90 | 59.50 | |
| 37 +15 | 60.42 | |
| 37 +40 | 61.33 | |
| +65 | 62.25 | |
| +90 | 63.17 | |
| | 64.08 | |
| | 65.00 | |
| 38 +40 | Stone Arch | X |

412.57
100

3.6667
100

3 29 St

| Sta | Elev | Grad | cut | |
|-------|-------|-------|------|-------------------------|
| | | 34.02 | | X |
| 24 | 41.21 | 34.23 | 6.98 | X |
| +25 | 41.49 | 34.35 | 7.13 | |
| +50 | 42.01 | 34.48 | 7.53 | |
| +75 | 42.07 | 34.60 | 7.47 | |
| 25 | 42.32 | 34.73 | 7.59 | |
| +25 | 42.37 | 34.85 | 7.52 | |
| +50 | 42.51 | 34.98 | 7.53 | |
| +75 | 42.57 | 35.10 | 7.47 | |
| 26 | 42.70 | 35.23 | 7.47 | |
| +25 | 42.67 | 35.35 | 7.32 | |
| +50 | 42.60 | 35.48 | 7.12 | |
| +75 | 42.60 | 35.60 | 7.00 | |
| 27 | 42.68 | 35.73 | 6.95 | SLC |
| +20 | 42.67 | 35.83 | 6.84 | 6'10 $\frac{1}{2}$ " |
| +40 | 42.58 | 35.73 | 6.65 | 6'9 $\frac{3}{8}$ " C |
| +60 | 42.60 | 36.03 | 6.57 | 6'6 $\frac{1}{2}$ " |
| +80 | 42.72 | 36.13 | 6.59 | 6'7 $\frac{1}{2}$ " SLC |
| 28+05 | 42.75 | 36.25 | 6.50 | 6'6" |
| +30 | 42.70 | 36.38 | 6.92 | 6'8 $\frac{3}{4}$ " T |
| +55 | 42.91 | 36.50 | 6.41 | 6'4 $\frac{3}{8}$ " |

11200

Aug 24
27. Inspection Mohr Weston River

3rd Lt

| | Elv | Grad | cut | | |
|-------|-------|--------|------|-----------------------|-----|
| 28+80 | 42.90 | 36.63 | 6.27 | 6' 3 $\frac{1}{4}$ " | |
| 29+05 | 43.16 | 36.75 | 6.41 | 6' 4 $\frac{3}{8}$ " | |
| +30 | 43.37 | 36.88 | 6.49 | 6' 5 $\frac{3}{8}$ " | |
| +55 | 43.45 | 37.00 | 6.45 | 6' 5 $\frac{3}{8}$ " | |
| +80 | 43.57 | 37.13 | 6.44 | 6' 6 $\frac{1}{4}$ " | |
| 30+05 | 43.90 | 37.255 | 6.65 | 6' 7 $\frac{3}{8}$ " | 200 |
| +30 | 44.14 | 37.38 | 6.76 | 6' 9 $\frac{1}{8}$ " | |
| +55 | 44.04 | 37.505 | 6.54 | 6' 6 $\frac{1}{2}$ " | |
| +80 | 44.20 | 37.63 | 6.57 | 6' 6 $\frac{3}{8}$ " | 220 |
| 31 | 44.46 | 37.73 | 6.73 | 6' 8 $\frac{3}{8}$ " | |
| +20 | 44.33 | 37.83 | 6.50 | 6' 6" | B |
| +40 | 44.57 | 37.93 | 6.64 | 6' 7 $\frac{5}{8}$ " | 24 |
| +60 | 44.99 | 38.03 | 6.96 | 6' 11 $\frac{1}{2}$ " | 220 |
| +85 | 45.50 | 38.69 | 6.81 | 6' 9 $\frac{3}{8}$ " | |
| 32+10 | 45.74 | 39.35 | 6.99 | 6' 4 $\frac{3}{4}$ " | |
| +35 | 46.24 | 40.01 | 6.23 | 6' 2 $\frac{3}{4}$ " | 200 |
| +60 | 46.76 | 40.68 | 6.08 | 6' 1" | 200 |
| +85 | 47.48 | 41.34 | 6.14 | 6' 1 $\frac{3}{4}$ " | |
| 33+10 | 48.57 | 42.00 | 6.57 | 6' 6 $\frac{3}{8}$ " | |
| +35 | 49.78 | 43.67 | 6.11 | 6' 1 $\frac{3}{8}$ " | |
| +60 | 51.46 | 45.33 | 6.18 | 6' 2 $\frac{1}{2}$ " | |

30+99 Inspection Prob 6 Extra Base Rep Aug 25

229 In above of
Elev Grad Cont

| | | | | | |
|-------|-------|-------|------|-----------------------|---------------|
| 33+85 | 53.70 | 47.00 | 6.70 | 6' 8 $\frac{3}{4}$ " | 109.90 100 |
| 34+10 | 55.94 | 48.67 | 7.27 | 7' 3 $\frac{1}{2}$ " | |
| +35 | 57.70 | 50.33 | 7.37 | 7' 4 $\frac{1}{2}$ " | |
| +60 | 59.10 | 52.00 | 7.10 | 7' 1 $\frac{1}{2}$ " | LN |
| +80 | 59.61 | 52.68 | 6.93 | 6' 11 $\frac{1}{2}$ " | a |
| 35 | 60.90 | 53.37 | 7.53 | 7' 6 $\frac{3}{4}$ " | |
| +20 | 61.24 | 54.05 | 7.21 | 7' 2 $\frac{1}{2}$ " | LN |
| +40 | 61.65 | 54.74 | 6.91 | 6' 10 $\frac{1}{2}$ " | |
| +65 | 62.24 | 55.59 | 6.65 | 6' 7 $\frac{3}{4}$ " | 115.63 100 |
| +90 | 62.90 | 56.45 | 6.45 | 6' 5 $\frac{3}{4}$ " | |
| 36+15 | 63.60 | 57.30 | 6.30 | 6' 3 $\frac{1}{2}$ " | 115.63 100 |
| +40 | 64.54 | 58.16 | 6.48 | 6' 5 $\frac{1}{2}$ " | |
| +65 | 65.41 | 59.01 | 6.40 | 6' 4 $\frac{3}{4}$ " | 115.63 100 |
| +90 | 66.15 | 59.87 | 6.28 | 6' 3 $\frac{3}{4}$ " | |
| 37+15 | 66.96 | 60.72 | 6.24 | 6' 2 $\frac{3}{4}$ " | 115.63 100 |
| +40 | 67.86 | 61.58 | 6.28 | 6' 3 $\frac{3}{4}$ " | |
| +65 | 68.76 | 62.43 | 6.33 | 6' 4" | 115.63 100 |
| +90 | 69.54 | 63.29 | 6.29 | 6' 3 $\frac{1}{2}$ " | |
| 38+15 | 70.05 | 64.15 | 5.93 | 5' 11 $\frac{1}{2}$ " | 115.63 100 |
| +40 | 70.99 | 65.00 | 5.99 | 5' 11 $\frac{1}{4}$ " | |
| +60 | 71.68 | 65.74 | 5.94 | 5' 11 $\frac{1}{4}$ " | |

Aug 8 1961
94+60 Inspection Hole Galena River Pipe

3²⁰/₁₁ St. above 2

| Sta | Elev. | Grade | cut | Depth | |
|-------|-------|-------|------|-----------------------|----------|
| 38+80 | 72.20 | 66.48 | 5.72 | 5' 4 $\frac{1}{2}$ " | Asph |
| 39 | 72.80 | 67.22 | 5.58 | 5' 7" | |
| +20 | 73.11 | 67.96 | 5.15 | 5' 1 $\frac{1}{2}$ " | X |
| +45 | 74.18 | 68.88 | 5.20 | 5' 2 $\frac{1}{2}$ " | |
| +70 | 75.19 | 69.80 | 5.39 | 5' 4 $\frac{1}{2}$ " | |
| +95 | 76.57 | 70.73 | 5.84 | 5' 10 $\frac{1}{4}$ " | |
| 40+20 | 77.77 | 71.66 | 6.12 | 6' 1 $\frac{1}{2}$ " | |
| +45 | 78.93 | 72.58 | 6.35 | 6' 4 $\frac{1}{2}$ " | |
| +70 | 80.12 | 73.50 | 6.62 | 6' 7 $\frac{1}{2}$ " | |
| +95 | 81.31 | 74.42 | 6.89 | 6' 10 $\frac{3}{4}$ " | |
| 41+20 | 82.60 | 75.35 | 7.25 | 7' 3" | |
| +45 | 83.61 | 76.27 | 7.34 | 7' 4 $\frac{1}{2}$ " | |
| +70 | 84.58 | 77.20 | 7.38 | 7' 4 $\frac{3}{4}$ " | |
| +95 | 85.80 | 78.12 | 7.68 | 7' 8 $\frac{3}{4}$ " | |
| 42+20 | 86.99 | 79.04 | 7.95 | 7' 11 $\frac{3}{4}$ " | Asph |
| +40 | 87.76 | 79.78 | 7.98 | 7' 11 $\frac{3}{4}$ " | |
| +60 | 88.52 | 80.42 | 8.00 | 8' 00" | Beach DT |
| +80 | 81.26 | | | | X |
| 43 | 90.05 | 82.00 | 8.05 | 8' 0 $\frac{1}{2}$ " | X |
| +25 | 91.88 | 83.38 | 8.00 | 8' 00" | |
| +50 | 92.41 | 84.76 | 7.65 | 7' 7 $\frac{1}{2}$ " | |

3rd St - N of Ash

Sta Elev Grade Cont-

| | | | | | | |
|---|-------|--------|--------|------|-----------------------|--------|
| | +75 | 93.84 | 86.14 | 7.70 | 7' 9 $\frac{1}{2}$ " | |
| 2 | 44 | 95.00 | 87.53 | 7.47 | 7' 5 $\frac{3}{4}$ " | |
| | +25 | 96.22 | 89.91 | 7.31 | 7' 3 $\frac{3}{4}$ " | |
| | +50 | 97.71 | 90.29 | 7.42 | 7' 5" | |
| | +75 | 99.15 | 91.67 | 7.48 | 7' 6 $\frac{3}{4}$ " | |
| 2 | 45 | 100.48 | 93.05 | 7.43 | 7' 5 $\frac{1}{2}$ " | |
| | +25 | 101.84 | 94.43 | 7.41 | 7' 4 $\frac{3}{4}$ " | |
| | +50 | 103.34 | 96.81 | 7.53 | 7' 6 $\frac{3}{4}$ " | |
| | +75 | 104.48 | 97.20 | 7.29 | 7' 2 $\frac{3}{4}$ " | |
| | 46 | 105.84 | 99.58 | 7.36 | 7' 4 $\frac{3}{4}$ " | 3.0 da |
| | +20 | 106.83 | 99.68 | 7.15 | 7' 1 $\frac{3}{4}$ " | |
| | +40 | 108.03 | 100.79 | 7.24 | 7' 2 $\frac{3}{4}$ " | Cedar |
| | +60 | 108.82 | 101.49 | 6.93 | 6' 11 $\frac{1}{2}$ " | |
| | +80 | 109.81 | 102.00 | 6.81 | 6' 9 $\frac{3}{4}$ " | 1.5 da |
| | 47+05 | 110.44 | 103.13 | 7.82 | 7' 3 $\frac{3}{4}$ " | |
| | +30 | 110.98 | 103.24 | 7.70 | 7' 8 $\frac{3}{4}$ " | |
| | +55 | 111.73 | 103.39 | 8.34 | 8' 4 $\frac{1}{2}$ " | |
| | +80 | 111.75 | 103.53 | 8.22 | 8' 2 $\frac{3}{4}$ " | |
| | 48+05 | 111.76 | 103.66 | 8.20 | 8' 2 $\frac{3}{4}$ " | |
| 2 | +30 | 112.02 | 103.79 | 8.23 | 8' 2 $\frac{3}{4}$ " | |
| | +54 | 111.81 | 103.92 | 7.89 | 7' 10 $\frac{1}{2}$ " | |

697.919
1006269
100

3rd Sta - N. of cut

| Sta | Elev | Grade | Cut | |
|-------|--------|--------|------|---------------------------|
| 48+80 | 111.65 | 104.05 | 7.60 | 7' 7 $\frac{1}{2}$ " |
| 49+05 | 111.45 | 104.18 | 7.27 | 7' 3 $\frac{1}{2}$ " |
| +30 | 111.16 | 104.31 | 6.85 | 6' 10 $\frac{1}{2}$ " |
| +55 | 110.49 | 104.45 | 6.04 | 6' 0 $\frac{1}{2}$ " |
| +80 | 109.86 | 104.58 | 5.38 | 5' 4 $\frac{1}{2}$ " |
| 50 | 110.28 | 104.68 | 5.60 | 5' 7 $\frac{1}{2}$ " |
| +20 | 110.91 | 104.79 | 5.42 | 5' 5" ¹⁰⁰ |
| +40 | 110.42 | 104.89 | 5.53 | 5' 6 $\frac{3}{4}$ " |
| +60 | 110.85 | 105.00 | 5.85 | 5' 10 $\frac{1}{4}$ " *N2 |
| +85 | 112.70 | 107.17 | 5.53 | 5' 6 $\frac{3}{4}$ " |
| 51+10 | 115.00 | 109.34 | 5.66 | 5' 8" |

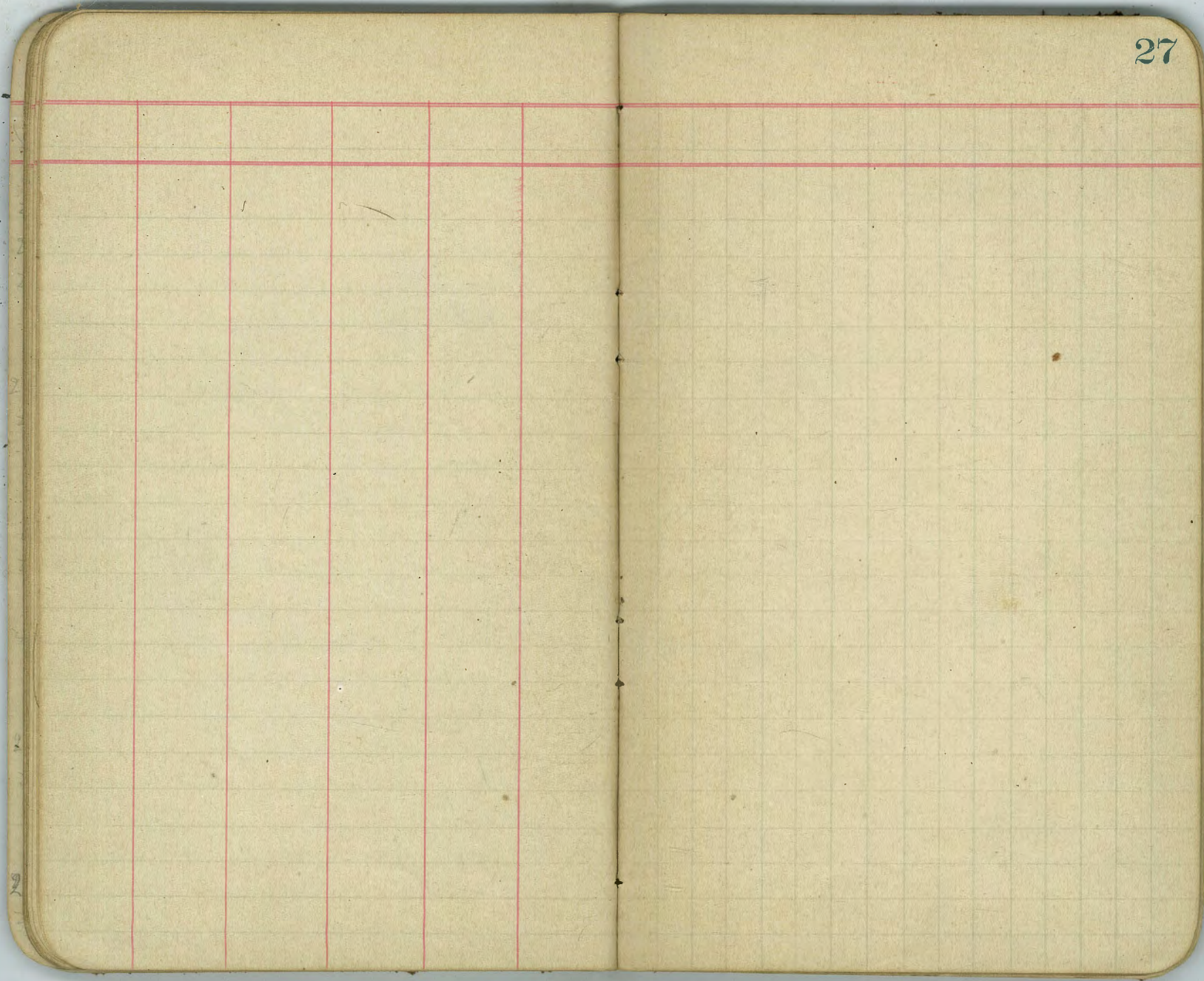
5080 5083
 4980
 83

Latw commenced of wooden Box

has 100' per wooden Box

Latw

End of Box
 Last End of Johnsons Contract 50.93



The image shows an open notebook with two pages. The left page is ruled with a grid of light blue lines. A prominent red horizontal line is drawn near the top, and four vertical red lines are drawn down the page, creating five columns. The right page is also ruled with a grid of light blue lines. The number '28' is printed in the top right corner of the right page. The notebook is placed on a light-colored surface.

4th St. N. K.

Sta. Elev. Head Elev.

| | | | | |
|-------------|------|-------|------|-----------------------|
| 0 | 1.67 | -0.98 | 2.65 | 2' 7 $\frac{1}{8}$ " |
| +14 | 1.74 | -0.92 | 2.66 | 2' 8" |
| +24 | 1.61 | -0.83 | 2.44 | 2' 5 $\frac{1}{4}$ " |
| +34 | 1.71 | -0.75 | 2.46 | 2' 5 $\frac{1}{2}$ " |
| +44 | 1.59 | -0.66 | 2.25 | 2' 5" |
| +54 | 1.58 | -0.58 | 2.16 | 2' 2" |
| +60 | 1.52 | -0.53 | 2.05 | 2' 0 $\frac{1}{8}$ " |
| +75 | 1.61 | -0.40 | 2.01 | 2' 0 $\frac{1}{8}$ " |
| 1.00 | 1.96 | -0.30 | 2.26 | 2' 3 $\frac{1}{8}$ " |
| +125 = +135 | 2.15 | -0.20 | 2.35 | 2' 4 $\frac{1}{4}$ " |
| 2 | 2.43 | -0.11 | 2.54 | 2' 6 $\frac{1}{2}$ " |
| +9 | 2.63 | -0.01 | 2.64 | 2' 7 $\frac{3}{8}$ " |
| +51 | 3.02 | +0.09 | 2.93 | 2' 11" |
| +74 | 3.43 | 0.19 | 3.24 | 3' 2 $\frac{1}{8}$ " |
| 8 | 3.77 | 0.29 | 3.48 | 3' 5 $\frac{3}{8}$ " |
| +24 | 4.12 | 0.39 | 3.73 | 3' 8 $\frac{3}{8}$ " |
| +30 | 4.39 | 0.48 | 3.90 | 3' 10 $\frac{3}{8}$ " |
| +77 | 4.53 | 0.59 | 3.94 | 3' 11 $\frac{1}{4}$ " |
| 4 | 4.91 | 0.68 | 4.13 | 4' 1 $\frac{1}{8}$ " |
| +20 | 4.96 | 0.76 | 4.10 | 4' 1 $\frac{1}{2}$ " |

+ 1465
3947
Barren

PC

56
15
0+98
1+100+50 = NZK St = Sta 1
PT12
93

H. J. L.

H. St. N. of R.

| Sta | Elev | Grad | Cont | | |
|------|-------|------|------|-----------------------|---------|
| 4+00 | 5.23 | 0.84 | 4.39 | 4' 4 $\frac{1}{2}$ " | J. ST. |
| +60 | 5.41 | 0.92 | 4.49 | 4' 5 $\frac{1}{2}$ " | |
| +80 | 5.67 | 1.00 | 4.67 | 4' 8" | X 12.50 |
| 5+05 | 5.67 | 1.27 | 4.40 | 4' 4 $\frac{3}{4}$ " | |
| +30 | 6.12 | 1.53 | 4.59 | 4' 7 $\frac{1}{2}$ " | |
| +54 | 6.46 | 1.80 | 4.66 | 4' 8" | |
| +80 | 6.74 | 2.06 | 4.68 | 4' 8 $\frac{1}{2}$ " | |
| 6+05 | 6.95 | 2.33 | 4.62 | 4' 7 $\frac{1}{2}$ " | |
| +30 | 7.43 | 2.60 | 4.89 | 4' 10" | |
| +54 | 7.84 | 2.86 | 4.98 | 4' 11 $\frac{1}{2}$ " | |
| +80 | 8.30 | 3.13 | 5.17 | 5' 2" | |
| 7+05 | 8.61 | 3.39 | 5.22 | 5' 2 $\frac{1}{2}$ " | |
| +30 | 9.07 | 3.66 | 5.41 | 5' 4 $\frac{1}{2}$ " | |
| +54 | 9.19 | 3.92 | 5.27 | 5' 3 $\frac{1}{2}$ " | |
| +80 | 9.82 | 4.14 | 5.68 | 5' 8 $\frac{1}{2}$ " | 12.50 |
| 8 | 10.12 | 4.35 | 5.77 | 5' 9 $\frac{1}{2}$ " | |
| +20 | 10.34 | 4.56 | 5.80 | 5' 9 $\frac{1}{2}$ " | I. ST. |
| +40 | 10.30 | 4.78 | 5.52 | 5' 6 $\frac{1}{4}$ " | |
| +60 | 10.61 | 5.04 | 5.57 | 5' 6 $\frac{1}{2}$ " | X 12.50 |
| +85 | 10.96 | 5.31 | 5.65 | 5' 7 $\frac{1}{2}$ " | |
| 9+10 | 11.61 | 5.57 | 6.04 | 6' 0 $\frac{1}{2}$ " | |

H[#] St- N of R

Sta Elev Grade Cur- inches

| | | | | | |
|-------|-------|-------|------|-----------------------|------|
| 9+35 | 11.86 | 5.84 | 6.02 | 6' 0 $\frac{1}{4}$ " | |
| +60 | 12.51 | 6.11 | 6.40 | 6' 2 $\frac{3}{4}$ " | |
| +85 | 12.77 | 6.37 | 6.40 | 6' 4 $\frac{3}{4}$ " | |
| 10+10 | 13.07 | 6.64 | 6.49 | 6' 5 $\frac{1}{2}$ " | |
| +35 | 13.39 | 6.90 | 6.49 | 6' 5 $\frac{3}{4}$ " | |
| +60 | 13.86 | 7.17 | 6.69 | 6' 8 $\frac{1}{4}$ " | |
| +85 | 14.21 | 7.43 | 6.79 | 6' 9 $\frac{3}{4}$ " | |
| 11+10 | 14.51 | 7.70 | 6.81 | 6' 9 $\frac{3}{4}$ " | |
| +35 | 14.81 | 7.97 | 6.84 | 6' 10 $\frac{1}{8}$ " | |
| +60 | 15.13 | 8.23 | 6.90 | 6' 10 $\frac{3}{4}$ " | X |
| +85 | 15.75 | 8.50 | 7.25 | 7' 3" | X |
| 12+10 | 16.07 | 8.95 | 7.12 | 7' 1 $\frac{1}{2}$ " | HPPT |
| +35 | 15.75 | 9.10 | 6.35 | 6' 4 $\frac{1}{2}$ " | |
| +60 | 15.89 | 9.85 | 6.04 | 6' 0 $\frac{1}{2}$ " | X |
| +85 | 16.39 | 10.30 | 6.09 | 6' 1 $\frac{1}{8}$ " | |
| 13+10 | 16.72 | 10.75 | 5.97 | 5' 11 $\frac{1}{2}$ " | |
| +35 | 17.30 | 11.20 | 6.10 | 6' 1 $\frac{1}{4}$ " | |
| +60 | 17.83 | 11.65 | 6.18 | 6' 2 $\frac{1}{2}$ " | |
| +85 | 18.85 | 12.10 | 6.28 | 6' 3 $\frac{3}{4}$ " | |
| 14+10 | 19.69 | 12.55 | 6.14 | 6' 1 $\frac{3}{4}$ " | |
| +35 | 19.19 | 13.07 | 6.19 | 6' 2 $\frac{1}{4}$ " | |

2 3.023

1.62

24.643

9.44

15.203

8.23

0.23

86

12

170

9.44

6.38

3.56

10.1

10.1

3.10

6.3

3.303

0.16

19.17

4.19

31.25

6.83

5.60

8.43

1.68

1.2

1.2

8.12

7.8"

7.68

H# St. N of R.

| Sta | Elev | Grad | Cut | |
|-------|-------|-------|------|----------------------------|
| 14+60 | 19.78 | 13.45 | 6.33 | 6' 4" |
| +85 | 20.24 | 13.90 | 6.34 | 6' 4 $\frac{1}{2}$ " |
| 15+10 | 20.57 | 14.35 | 6.22 | 6' 2 $\frac{1}{2}$ " |
| +35 | 21.05 | 14.80 | 6.25 | 6' 3" |
| +60 | 21.51 | 15.25 | 6.26 | 6' 3 $\frac{1}{2}$ " |
| +80 | 21.83 | 15.61 | 6.22 | 6' 2 $\frac{1}{2}$ " |
| 16 | 22.17 | 15.97 | 6.20 | 6' 2 $\frac{3}{4}$ " G. ST |
| +20 | 22.26 | 16.33 | 5.93 | 5' 11 $\frac{1}{2}$ " |
| +40 | 22.41 | 16.69 | 5.72 | 5' 8 $\frac{1}{2}$ " |
| +65 | 22.98 | 17.14 | 5.84 | 5' 10 $\frac{1}{2}$ " |
| +90 | 23.57 | 17.59 | 5.98 | 5' 11 $\frac{1}{2}$ " |
| 17+15 | 24.12 | 18.04 | 6.08 | 6' 1" |
| +40 | 24.56 | 18.49 | 6.07 | 6' 1" |
| +65 | 25.18 | 18.94 | 6.24 | 6' 1 $\frac{1}{2}$ " |
| +90 | 25.69 | 19.39 | 6.30 | 6' 2 $\frac{1}{2}$ " |
| 18+15 | 26.15 | 19.84 | 6.31 | 6' 2 $\frac{1}{2}$ " |
| +40 | 26.66 | 20.29 | 6.37 | 6' 4 $\frac{1}{2}$ " |
| +65 | 27.17 | 20.74 | 6.43 | 6' 5 $\frac{1}{2}$ " curve |
| +90 | 27.80 | 21.19 | 6.61 | 6' 7 $\frac{1}{2}$ " |
| 19+15 | 28.40 | 21.64 | 6.76 | 6' 9 $\frac{1}{2}$ " |
| +40 | 28.91 | 22.09 | 6.82 | 6' 10" bridge |

L. St. Mark

| No. | Elev | Grade | Cut | | |
|-------|-------|-------|------|----------------------|-------|
| 19+60 | 29.19 | 22.45 | 6.68 | 6' 8 $\frac{1}{2}$ " | |
| +80 | 29.28 | 22.81 | 6.47 | 6' 5 $\frac{1}{8}$ " | F. ST |
| 20 | 29.41 | 23.17 | 6.24 | 6' 2 $\frac{1}{2}$ " | |
| +20 | 29.52 | 23.53 | 6.29 | 6' 3 $\frac{1}{2}$ " | W. ST |
| +45 | 30.04 | 23.98 | 6.06 | 6' 0 $\frac{3}{4}$ " | |
| +70 | 30.74 | 24.43 | 6.31 | 6' 2 $\frac{3}{4}$ " | |
| +95 | 31.26 | 24.88 | 6.38 | 6' 4 $\frac{3}{8}$ " | |
| 21+20 | 31.70 | 25.33 | 6.37 | 6' 4 $\frac{1}{2}$ " | |
| +45 | 32.21 | 25.78 | 6.43 | 6' 5 $\frac{1}{8}$ " | |
| +70 | 32.69 | 26.23 | 6.46 | 6' 5 $\frac{1}{2}$ " | |
| +95 | 33.09 | 26.68 | 6.41 | 6' 4 $\frac{1}{2}$ " | |
| 22+20 | 33.58 | 27.13 | 6.40 | 6' 4 $\frac{1}{2}$ " | |
| +45 | 34.04 | 27.58 | 6.46 | 6' 5 $\frac{1}{2}$ " | |
| +70 | 34.50 | 28.03 | 6.47 | 6' 5 $\frac{3}{8}$ " | |
| +95 | 34.92 | 28.48 | 6.44 | 6' 5 $\frac{1}{2}$ " | |
| 23+20 | 35.57 | 28.93 | 6.64 | 6' 7 $\frac{3}{8}$ " | W. ST |
| +40 | 35.92 | 29.29 | 6.63 | 6' 7 $\frac{1}{2}$ " | |
| +60 | 37.18 | 29.65 | 7.53 | 6' 6 $\frac{3}{4}$ " | F. ST |
| +80 | 36.41 | 30.01 | 6.40 | 6' 4 $\frac{1}{2}$ " | |
| 24 | 36.98 | 30.37 | 6.59 | 6' 7 $\frac{1}{2}$ " | W. ST |
| +25 | 37.47 | 30.82 | 6.59 | 6' 7 $\frac{1}{2}$ " | |

S. L. CUT

C. S. H.

S. L. CUT

Hth St N of R

Sta Elev Grade Cut

| | | | | | |
|-------|-------|-------|------|-----------------------|--------|
| 24+50 | 37.92 | 31.27 | 6.65 | 6' 7 $\frac{3}{4}$ " | |
| +75 | 38.49 | 31.72 | 6.77 | 6' 9 $\frac{1}{4}$ " | ✓ |
| 25 | 39.13 | 32.17 | 6.96 | 6' 11 $\frac{1}{2}$ " | |
| +25 | 39.63 | 32.62 | 7.01 | 7' 0 $\frac{1}{2}$ " | |
| +50 | 40.24 | 33.07 | 7.17 | 7' 2" | |
| +75 | 40.44 | 33.52 | 6.92 | 6' 11" | |
| 26 | 40.84 | 33.97 | 6.87 | 6' 10 $\frac{1}{2}$ " | |
| +25 | 41.33 | 34.42 | 6.91 | 6' 10 $\frac{3}{4}$ " | |
| +50 | 41.79 | 34.87 | 6.92 | 6' 11" | |
| +75 | 42.32 | 35.33 | 6.99 | 6' 11 $\frac{3}{4}$ " | |
| 27 | 42.42 | 35.78 | 6.64 | 6' 7 $\frac{3}{4}$ " | 100 |
| +20 | 42.99 | 36.14 | 6.85 | 6' 10 $\frac{1}{2}$ " | |
| +40 | 43.33 | 36.50 | 6.83 | 6' 10" | x DIST |
| +60 | 43.62 | 36.67 | 6.95 | 6' 11 $\frac{3}{4}$ " | |
| +80 | 44.14 | 36.84 | 7.30 | 7' 3 $\frac{3}{4}$ " | 100 |
| 28+05 | 44.62 | 37.05 | 7.57 | 7' 6 $\frac{3}{4}$ " | |
| +30 | 44.90 | 37.20 | 7.64 | 7' 7 $\frac{3}{4}$ " | |
| +55 | 45.02 | 37.46 | 7.56 | 7' 6 $\frac{3}{4}$ " | |
| +80 | 45.89 | 37.67 | 7.72 | 7' 8 $\frac{3}{4}$ " | |
| 29+05 | 45.65 | 37.89 | 7.76 | 7' 9 $\frac{1}{4}$ " | |
| +30 | 46.08 | 38.10 | 7.98 | 7' 11 $\frac{3}{4}$ " | |

S B B B

B B

N B B B

Hth St. of K

| Sta | Ele | Grad | Ent | |
|-------|-------|-------|------|--------|
| 29+55 | 46.06 | 39.31 | 7.75 | 7' 9" |
| +30 | 46.20 | 39.52 | 7.68 | 7' 8" |
| 30+05 | 46.41 | 39.73 | 7.68 | 7' 8" |
| +30 | 46.60 | 39.94 | 7.66 | 7' 8" |
| +55 | 46.75 | 39.15 | 7.60 | 7' 7" |
| +80 | 47.06 | 39.36 | 7.70 | 7' 8" |
| 31 | 47.30 | 39.52 | 7.78 | 7' 9" |
| +20 | 47.57 | 39.68 | 7.82 | 7' 9" |
| +40 | 47.73 | 39.85 | 7.88 | 7' 10" |
| +60 | 47.90 | 40.02 | 7.88 | 7' 10" |
| +85 | 48.28 | 40.33 | 8.05 | 8' 0" |
| 32+10 | 48.34 | 40.44 | 7.90 | 7' 10" |
| +35 | 48.85 | 40.65 | 7.70 | 7' 8" |
| +60 | 48.42 | 40.85 | 7.57 | 7' 6" |
| +85 | 48.53 | 41.06 | 7.47 | 7' 5" |
| 33+10 | 48.81 | 41.27 | 7.54 | 7' 6" |
| +35 | 48.91 | 41.48 | 7.43 | 7' 5" |
| +60 | 49.16 | 41.69 | 7.47 | 7' 5" |
| +85 | 49.40 | 41.91 | 7.49 | 7' 5" |
| 34+10 | 49.46 | 42.02 | 7.34 | 7' 4" |
| +35 | 49.59 | 42.22 | 7.37 | 7' 4" |

100' 8975-

20' 1675-

25' 210' 2094

9185
PM1

4th Dr. N of R

| Sta | Elev | Grade | Cur | | |
|-------|-------|-------|------|-------------------------------------|--------|
| 34+60 | 49.94 | 42.42 | 7.46 | 7' 4 ³ / ₄ " | N.B. |
| +80 | 50.10 | 42.69 | 7.41 | 7' 4 ¹ / ₂ " | |
| 34- | 50.14 | 42.46 | 7.28 | 7' 3 ³ / ₄ " | B.O.T. |
| +20 | 49.97 | 43.02 | 6.95 | 6' 11 ³ / ₄ " | |
| +40 | 50.56 | 48.20 | 7.36 | 7' 4 ³ / ₄ " | N.B. |
| +65 | 51.04 | 48.92 | 7.16 | 7' 1 ³ / ₄ " | |
| +90 | 51.79 | 44.64 | 7.09 | 7' 1 ¹ / ₂ " | |
| 36+15 | 52.22 | 45.36 | 6.86 | 6' 10 ³ / ₄ " | |
| +40 | 52.53 | 46.08 | 6.75 | 6' 9" | |
| +65 | 53.52 | 46.84 | 6.72 | 6' 8 ⁵ / ₈ " | |
| +90 | 53.93 | 47.52 | 6.41 | 6' 4 ¹ / ₂ " | |
| 37+15 | 54.68 | 48.24 | 6.44 | 6' 5 ¹ / ₄ " | |
| +40 | 55.86 | 48.96 | 6.40 | 6' 4 ³ / ₄ " | |
| +65 | 56.22 | 49.69 | 6.53 | 6' 6 ³ / ₄ " | |
| +90 | 56.80 | 50.41 | 6.39 | 6' 4 ³ / ₄ " | |
| 38+15 | 57.53 | 51.93 | 6.40 | 6' 4 ³ / ₄ " | |
| +40 | 58.19 | 51.83 | 6.34 | 6' 4 ¹ / ₄ " | N.A. |
| +60 | 59.73 | 52.42 | 6.31 | 6' 3 ³ / ₄ " | |
| +80 | 59.22 | 53.00 | 6.22 | 6' 2 ⁵ / ₈ " | A.D.T. |
| 39 | 59.79 | 54.19 | 5.61 | 5' 7 ³ / ₈ " | |
| +20 | 60.49 | 55.35 | 5.14 | 5' 1 ³ / ₄ " | N.A. |

1.81

2.5829
2.100

H. N. of R

| Sta | Elev | Grad | Cur | |
|-------|-------|-------|------|-------------------------------|
| 39+45 | 61.79 | 56.82 | 4.97 | 4 11 $\frac{3}{4}$ |
| +70 | 63.45 | 58.29 | 5.16 | 5 1 $\frac{3}{4}$ |
| +95 | 65.06 | 59.76 | 5.30 | 5 3 $\frac{3}{4}$ |
| 40+20 | 66.65 | 61.22 | 5.43 | 5 5 $\frac{1}{2}$ |
| +45 | 68.24 | 62.69 | 5.58 | 5 6 $\frac{3}{4}$ |
| +70 | 69.64 | 64.16 | 5.48 | 5 5 $\frac{3}{4}$ |
| +95 | 71.03 | 65.62 | 5.41 | 5 4 $\frac{3}{4}$ |
| 41+20 | 72.28 | 67.09 | 5.19 | 5 2 $\frac{1}{2}$ |
| +45 | 73.68 | 68.57 | 5.11 | 5 1 $\frac{3}{4}$ |
| +70 | 75.13 | 70.03 | 5.12 | 5 1 $\frac{1}{2}$ |
| +95 | 76.54 | 71.50 | 5.04 | 5 0 $\frac{1}{2}$ x |
| 42+20 | 77.81 | 72.50 | 5.31 | 5 3 $\frac{3}{4}$ <i>same</i> |
| 40 | 78.88 | 73.31 | 5.57 | 5 6 $\frac{3}{4}$ |
| +60 | 79.70 | 74.11 | 5.59 | 5 7 $\frac{1}{2}$ |
| +80 | 80.60 | 74.91 | 5.69 | 5 8 $\frac{1}{2}$ |
| 43 | 81.48 | 75.72 | 5.76 | 5 9 $\frac{1}{4}$ <i>NA</i> |
| +25 | 82.47 | 76.72 | 5.75 | 5 9 |
| +50 | 83.48 | 77.72 | 5.76 | 5 9 $\frac{1}{4}$ |
| +75 | 84.41 | 78.73 | 5.69 | 5 8 $\frac{1}{4}$ |
| 44 | 85.33 | 79.73 | 5.90 | 5 9 $\frac{3}{4}$ |

5.843
10005.114
1000

4 St Forest of K

| | | | | | |
|-------|--------|-------|------|---------------------|-----------|
| 44-25 | 86.59 | 80.74 | 5.45 | 5, 10 $\frac{1}{4}$ | |
| + 50 | 87.49 | 81.74 | 5.75 | 5, 9 | |
| + 75 | 88.56 | 82.75 | 5.81 | 5, 9 $\frac{3}{4}$ | |
| 44-25 | 89.75 | 83.75 | 6.00 | 6, 00 | 10/10 H |
| + 25 | 90.69 | 84.75 | 5.94 | 5, 11 $\frac{1}{4}$ | |
| + 50 | 91.77 | 85.76 | 6.01 | 6, 0 $\frac{1}{8}$ | |
| + 75 | 92.68 | 86.76 | 5.92 | 5, 11" | |
| 44-6 | 93.74 | 87.77 | 5.97 | 5, 11 $\frac{5}{8}$ | St. B. |
| + 20 | 94.67 | 88.37 | 6.10 | 6, 1 $\frac{1}{4}$ | |
| + 40 | 95.50 | 89.37 | 6.13 | 6, 1 $\frac{1}{2}$ | Beach |
| + 60 | 96.39 | 90.18 | 6.20 | 6, 2 $\frac{2}{4}$ | |
| 45-80 | 97.27 | 90.98 | 6.29 | 6, 3 $\frac{1}{2}$ | Ar. Beach |
| 47-05 | 98.30 | 91.94 | 6.32 | 6, 3 $\frac{3}{4}$ | |
| + 30 | 99.53 | 92.99 | 6.54 | 6, 6 $\frac{1}{2}$ | |
| + 55 | 100.45 | 93.99 | 6.46 | 6, 5 $\frac{1}{2}$ | |
| + 80 | 101.41 | 95.00 | 6.41 | 6, 4 $\frac{3}{4}$ | x |
| 48-05 | 102.20 | 95.84 | 6.36 | 6, 4 $\frac{2}{4}$ | |
| + 30 | 102.92 | 96.68 | 6.24 | 6, 2 $\frac{3}{4}$ | |
| + 55 | 103.59 | 97.52 | 6.06 | 6, 0 $\frac{3}{4}$ | |
| + 80 | 104.29 | 98.37 | 5.92 | 5, 11 | |

4 St North of K.

| Sta | | | | | |
|--------|--------|--------|------|--------|----------|
| 49405 | 105.29 | 99.21 | 6.08 | 6'1" | |
| +30 | 106.15 | 100.05 | 6.10 | 6'1½" | |
| +55 | 106.94 | 100.89 | 6.05 | 6'0½" | |
| L T 80 | 107.69 | 101.78 | 5.96 | 5'11½" | SL Cedar |
| 50 | 108.24 | 102.40 | 5.84 | 5'10½" | |
| +20 | 108.00 | 103.08 | 5.92 | 5'11" | Cedar |
| +40 | 109.40 | 103.75 | 5.65 | 5'7¾" | |
| L +60 | 110.19 | 104.42 | 5.77 | 5'9¼" | SL Cedar |
| -85 | 110.86 | 105.24 | 5.60 | 5'7½" | |
| 57110 | 111.74 | 106.11 | 5.63 | 5'7½" | |
| +35 | 112.64 | 106.95 | 5.69 | 5'8½" | |
| L T 60 | 113.55 | 107.79 | 5.76 | 5'9½" | |
| +85 | 114.50 | 108.63 | 5.87 | 5'10½" | |
| 52710 | 115.55 | 109.47 | 6.08 | 6'1" | |
| +35 | 116.31 | 110.31 | 6.00 | 6'00" | |
| +60 | 117.17 | 111.15 | 6.02 | 6'0½" | |
| +85 | 117.93 | 111.99 | 5.84 | 5'11½" | |
| 53710 | 118.59 | 112.84 | 5.75 | 5'9" | |
| +35 | 119.29 | 113.68 | 5.61 | 5'7¾" | |
| +60 | 119.93 | 114.52 | 5.41 | 5'3¾" | SL Dalt |

467294
1021
857294

4 St North of K.

| Sta | | | | | |
|-------|--------|--------|------|-----------------------|--------|
| 53+8 | 120.50 | 115.19 | 5.31 | 5' 2 $\frac{3}{8}$ " | |
| 54 | 121.24 | 115.86 | 5.38 | 5' 3 $\frac{1}{2}$ " | Lat 21 |
| +20 | 121.71 | 116.64 | 5.17 | 5' 2" | |
| +40 | 122.30 | 117.21 | 5.09 | 5' 1 $\frac{1}{2}$ " | N.L. |
| +65 | 123.27 | 118.05 | 5.22 | 5' 2 $\frac{3}{8}$ " | |
| +90 | 123.98 | 118.89 | 5.09 | 5' 1 $\frac{1}{2}$ " | |
| 55+15 | 124.85 | 119.73 | 5.12 | 5' 1 $\frac{1}{2}$ " | |
| +40 | 125.86 | 120.58 | 5.28 | 5' 3 $\frac{3}{8}$ " | |
| +65 | 126.79 | 121.42 | 5.37 | 5' 4 $\frac{1}{2}$ " | |
| +90 | 127.65 | 122.26 | 5.39 | 5' 4 $\frac{1}{2}$ " | |
| 56+15 | 128.66 | 123.10 | 5.56 | 5' 6 $\frac{1}{2}$ " | |
| +40 | 129.70 | 123.94 | 5.76 | 5' 9 $\frac{1}{2}$ " | |
| +65 | 130.76 | 124.78 | 5.98 | 5' 11 $\frac{1}{2}$ " | |
| +90 | 131.61 | 125.62 | 5.99 | 5' 11 $\frac{1}{2}$ " | |
| 57+15 | 132.53 | 126.46 | 6.07 | 6' 0 $\frac{3}{8}$ " | |
| +40 | 133.64 | 127.30 | 6.34 | 6' 4 $\frac{1}{2}$ " | Ed Elm |
| +60 | 134.70 | 128.71 | 5.99 | 5' 11 $\frac{1}{2}$ " | |
| +80 | 135.55 | 130.10 | 5.45 | 5' 5 $\frac{3}{8}$ " | Elm 31 |
| 58 | 136.62 | 131.52 | 5.10 | 5' 1 $\frac{3}{8}$ " | |
| +20 | 137.91 | 132.92 | 4.98 | 4' 11 $\frac{1}{2}$ " | N.L. E |

Continuation of wooden box

397 ft - wooden box

817.234
1.00

58x17 End of Box

| Sta | Elev | Low | cut | | |
|-----|------------|--------|------|-----------------------|-----|
| 58 | +45739.62 | 134.68 | 4.84 | 4' 10" | |
| | +70 141.33 | 136.43 | 4.90 | 4' 10 $\frac{3}{4}$ " | |
| | +95 143.34 | 138.19 | 5.11 | 5' 1 $\frac{3}{4}$ " | |
| 59 | +24115.22 | 139.95 | 5.27 | 5' 8 $\frac{1}{2}$ " | |
| | +46 147.23 | 141.70 | 5.53 | 5' 6 $\frac{3}{4}$ " | |
| | +70 149.31 | 143.46 | 5.85 | 5' 10 $\frac{3}{4}$ " | |
| | +95 151.07 | 145.22 | 5.85 | 5' 10 $\frac{3}{4}$ " | |
| 60 | +20153.08 | 146.97 | 6.08 | 6' 1" | |
| | +46 154.88 | 148.73 | 6.15 | 6' 1 $\frac{3}{4}$ " | 100 |
| | +70 156.86 | 150.49 | 6.37 | 6' 4 $\frac{1}{2}$ " | |
| | +95 158.81 | 152.24 | 6.57 | 6' 6 $\frac{3}{4}$ " | |
| 61 | +20160.72 | 154.00 | 6.72 | 6' 9 $\frac{1}{4}$ " | 100 |
| | +40 161.99 | 155.05 | 6.94 | 6' 11 $\frac{1}{4}$ " | |
| | +60 162.98 | 156.11 | 6.82 | 6' 10" | 100 |
| | +80 164.23 | 157.16 | 7.09 | 7' 1 $\frac{1}{2}$ " | |
| 62 | 165.34 | 158.21 | 7.13 | 7' 1 $\frac{1}{2}$ " | 100 |
| | +25 166.92 | 159.58 | 7.29 | 7' 9 $\frac{1}{2}$ " | |
| | +50 168.26 | 160.84 | 7.42 | 7' 5" | |
| | +75 169.56 | 162.16 | 7.40 | 7' 4 $\frac{3}{4}$ " | |
| 63 | 170.80 | 163.47 | 7.33 | 7' 4" | 100 |

4th Dr. N of K

Sta Elev Grad Cut

| | | | | |
|-------|--------|--------|------|-----------------------|
| 63+25 | 172.08 | 164.79 | 7.29 | 7' 3 $\frac{1}{2}$ " |
| +50 | 173.19 | 166.10 | 7.09 | 7' 1 $\frac{1}{8}$ " |
| +75 | 174.54 | 167.42 | 7.12 | 7' 1 $\frac{1}{2}$ " |
| 64 | 175.61 | 168.74 | 6.87 | 6' 10 $\frac{3}{4}$ " |
| +25 | 176.74 | 170.05 | 6.69 | 6' 8 $\frac{3}{4}$ " |
| +50 | 177.61 | 171.87 | 6.24 | 6' 2 $\frac{3}{8}$ " |
| +75 | 178.50 | 172.68 | 5.82 | 5' 10" |
| 65 | 179.43 | 174.00 | 5.43 | 5' 5 $\frac{1}{2}$ " |
| +20 | 180.35 | 174.68 | 5.67 | 5' 8" |
| +40 | 181.94 | 175.37 | 5.57 | 5' 6 $\frac{3}{8}$ " |
| +60 | 181.69 | 176.05 | 5.64 | 5' 7 $\frac{3}{4}$ " |
| +80 | 182.25 | 176.74 | 5.51 | 5' 6 $\frac{1}{2}$ " |
| 66+05 | 183.47 | 177.59 | 5.88 | 5' 10 $\frac{5}{8}$ " |
| +30 | 184.43 | 178.45 | 5.98 | 5' 11 $\frac{3}{4}$ " |
| +55 | 185.28 | 179.40 | 5.88 | 5' 10 $\frac{3}{8}$ " |
| +80 | 186.36 | 180.16 | 6.20 | 6' 2 $\frac{3}{8}$ " |
| 67+05 | 187.35 | 181.02 | 6.33 | 6' 4" |
| +30 | 188.26 | 181.87 | 6.39 | 6' 4 $\frac{3}{4}$ " |
| +55 | 189.20 | 182.73 | 6.53 | 6' 6 $\frac{3}{8}$ " |
| +80 | 190.21 | 183.59 | 6.63 | 6' 7 $\frac{3}{8}$ " |

6' 26.91
100

Grape

Grape

No Grape

3.43105
100

H. to S. Hwy R

Sta Elev Grade Cut

| | | | | | |
|-------|--------|--------|------|---------------------|-----|
| 68+05 | 191.14 | 184.44 | 6.70 | 6'8 $\frac{3}{4}$ " | |
| +30 | 191.96 | 185.22 | 6.67 | 6'8" | |
| +55 | 192.79 | 186.15 | 6.64 | 6'7 $\frac{3}{4}$ " | |
| +80 | 193.74 | 187.00 | 6.74 | 6'9 $\frac{3}{4}$ " | sd. |
| 69 | 194.48 | 187.67 | 6.81 | 6'9 $\frac{3}{4}$ " | |
| +20 | 195.16 | 188.37 | 6.79 | 6'9 $\frac{1}{2}$ " | cut |
| +40 | 195.89 | 189.06 | 6.83 | 6'10" | |
| +60 | 196.24 | 189.74 | 6.50 | 6'6" | cut |
| +85 | 196.89 | 190.60 | 6.29 | 6'3 $\frac{1}{2}$ " | |
| 70+10 | 198.01 | 191.45 | 6.56 | 6'6 $\frac{3}{4}$ " | |
| +33 | 199.06 | 192.31 | 6.76 | 6'9 $\frac{1}{4}$ " | |
| +60 | 199.55 | 193.16 | 6.69 | 6'8 $\frac{1}{4}$ " | |
| +85 | 200.54 | 194.02 | 6.52 | 6'6 $\frac{1}{4}$ " | |
| 71+10 | 201.33 | 194.87 | 6.46 | 6'5 $\frac{1}{2}$ " | |
| +35 | 202.05 | 195.73 | 6.32 | 6'3 $\frac{3}{4}$ " | |
| +60 | 202.82 | 196.59 | 6.23 | 6'2 $\frac{3}{4}$ " | |
| +85 | 203.63 | 197.44 | 6.19 | 6'2 $\frac{1}{4}$ " | |
| 72+10 | 204.47 | 199.30 | 6.17 | 6'2" | |
| +35 | 205.07 | 199.15 | 5.92 | 5'11" | |
| +60 | 205.67 | 201.00 | 5.67 | 5'8" | sd. |

Hankton

Hankton

Hankton

2015
2016

H. H. H.

214.4

| Sta | Elev | Grade | Dist | | |
|-------|--------|--------|-------|-----------------------|--------|
| 72+80 | 206.01 | 200.22 | 5.79 | 5' 9 $\frac{1}{2}$ " | |
| 73 | 206.09 | 200.45 | 5.64 | 5' 7 $\frac{1}{2}$ " | Day |
| +20 | 207.52 | 200.67 | 6.85 | 6' 10 $\frac{3}{4}$ " | |
| +40 | 207.78 | 200.90 | 6.88 | 6' 10 $\frac{3}{4}$ " | 11.2.8 |
| +65 | 208.70 | 201.18 | 7.52 | 7' 6 $\frac{1}{2}$ " | |
| +70 | 210.45 | 201.46 | 8.99 | 8' 11 $\frac{3}{4}$ " | |
| 74+15 | 212.10 | 201.74 | 10.36 | 10' 4 $\frac{3}{4}$ " | |
| +40 | 214.12 | 202.02 | 12.10 | 12' 1 $\frac{1}{4}$ " | |
| +65 | 215.07 | 202.30 | 12.77 | 12' 9 $\frac{1}{4}$ " | |
| +70 | 214.74 | 202.59 | 12.15 | 12' 1 $\frac{1}{4}$ " | |
| 75+15 | 213.43 | 202.87 | 10.56 | 10' 6 $\frac{3}{4}$ " | |
| +40 | 211.32 | 203.15 | 8.17 | 8' 2" | |
| +65 | 207.59 | 203.43 | 4.16 | 4' 1 $\frac{1}{4}$ " | |
| +90 | 215.00 | 203.71 | 1.59 | 1' 7 $\frac{1}{8}$ " | |

Total length of steel 75745+

Total length of pipe 71+48 11.2.8
397 feet deducted for wooden
box

7490
7260
330

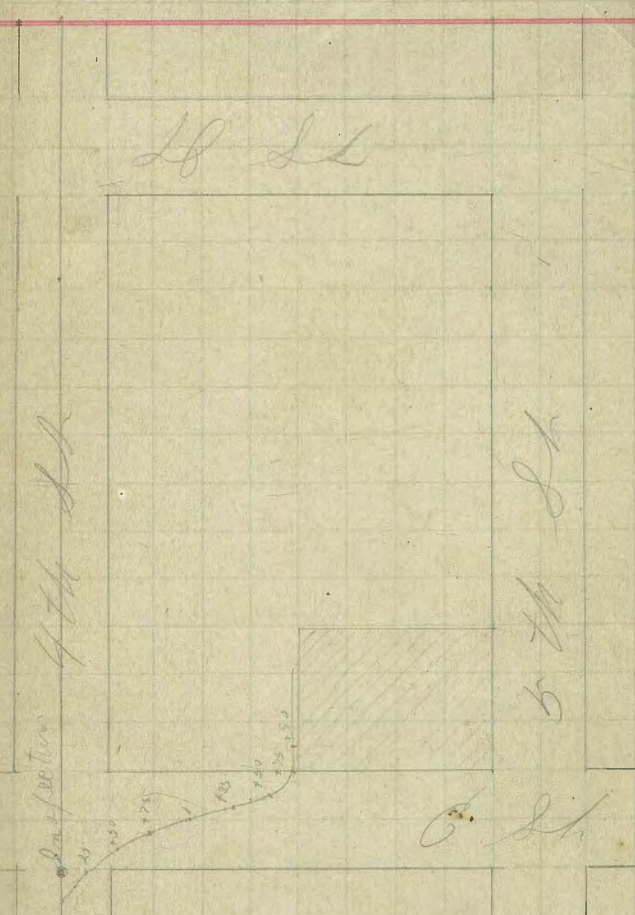
Final count Total Pipe 7540

76+15

Levels for Trust National Bank
 lateral.

| Sta | + | H.D | - | Elev |
|------|------|-------|------|-------|
| B.M. | 4.54 | 43.00 | | 38.46 |
| 0 | | | 7.50 | 33.50 |
| +25 | | | 6.90 | 35.10 |
| +50 | | | 6.35 | 36.95 |
| +75 | | | 6.17 | 36.83 |
| 1 | | | 5.65 | 37.33 |
| +25 | | | 5.40 | 37.60 |
| +50 | | | 4.40 | 38.60 |
| +75 | | | 3.50 | 39.50 |
| +90 | | | 2.33 | 40.67 |

| | Elev | Grade | Dist | | |
|-----|-------|-------|------|---|----|
| 0 | 33.50 | 28.70 | 6.80 | 6 | 10 |
| +25 | 35.10 | 29.13 | 5.97 | 6 | |
| +50 | 36.95 | 29.55 | 6.40 | 6 | 11 |
| +75 | 36.83 | 29.98 | 6.85 | 6 | 11 |
| 1 | 37.33 | 30.40 | 6.93 | 7 | |
| +25 | 37.60 | 30.83 | 6.77 | 6 | 9 |
| +50 | 38.60 | 31.25 | 7.35 | 7 | 4 |
| +75 | 39.50 | 31.68 | 7.82 | 7 | 10 |
| +90 | 40.67 | 32.11 | 8.56 | 8 | 7 |



Levels on H St sewer relined
bet Sta 54+20 and

June 9 1890

46

| Sta | + | H ₂ O | - | Elev | Grade | cut | |
|-------|------|------------------|------|--------|--------|------|------------------------|
| B. In | 8.98 | 1130.45 | | 121.47 | | | |
| 54+20 | | | 9.57 | 120.88 | 115.86 | 5.02 | 5 0 1/4" North of H St |
| +40 | | | 8.89 | 120.56 | 116.54 | 5.02 | 5 0 1/4" " |
| +65 | | | 8.45 | 122.00 | 117.21 | 4.79 | 4 9 1/2" North of H St |
| +90 | | | 7.52 | 122.93 | 118.05 | 4.88 | 4 10 5/8" " |
| | | | 6.63 | 123.82 | 118.89 | 4.93 | 4 11 1/8" " |
| 55+15 | | | 5.52 | 124.93 | 119.73 | 5.20 | 5 2 3/8" " |
| +40 | | | 4.47 | 125.98 | 120.58 | 5.40 | 5 4 3/4" " |
| +65 | | | 3.37 | 127.08 | 121.42 | 5.66 | 5 8" " |
| +90 | | | 2.40 | 128.05 | 122.26 | 5.79 | 5 9 1/2" " |
| 56+15 | | | 1.64 | 128.81 | 123.10 | 5.71 | 5 8 1/2" " |
| #+40 | 9.54 | 139.19 | 0.80 | 129.65 | 123.94 | 5.71 | 5 8 1/2" " |
| +65 | | | 8.48 | 130.71 | 124.78 | 5.93 | 5 11 1/8" ✓ |
| +90 | | | 7.32 | 131.87 | 125.62 | 6.25 | 6 3" " |
| 57+15 | | | 6.18 | 133.01 | 126.46 | 6.55 | 6 6 5/8" " |
| +40 | | | | | 127.30 | | South of Blue St |
| +60 | | | | | | | |
| +80 | | | | | | | |
| B. In | | | 1.05 | 138.14 | | | |

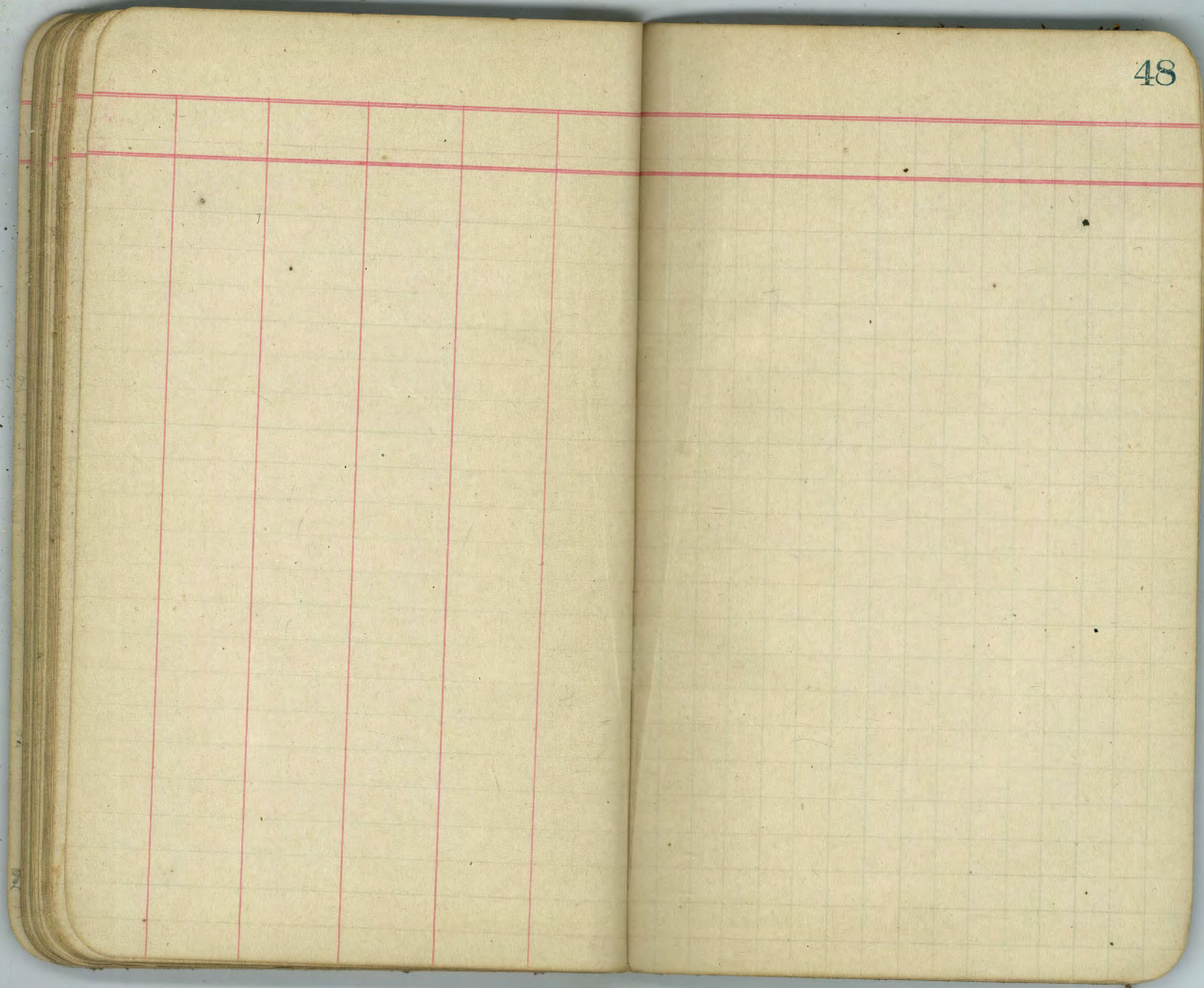
2.282 25.305 23023

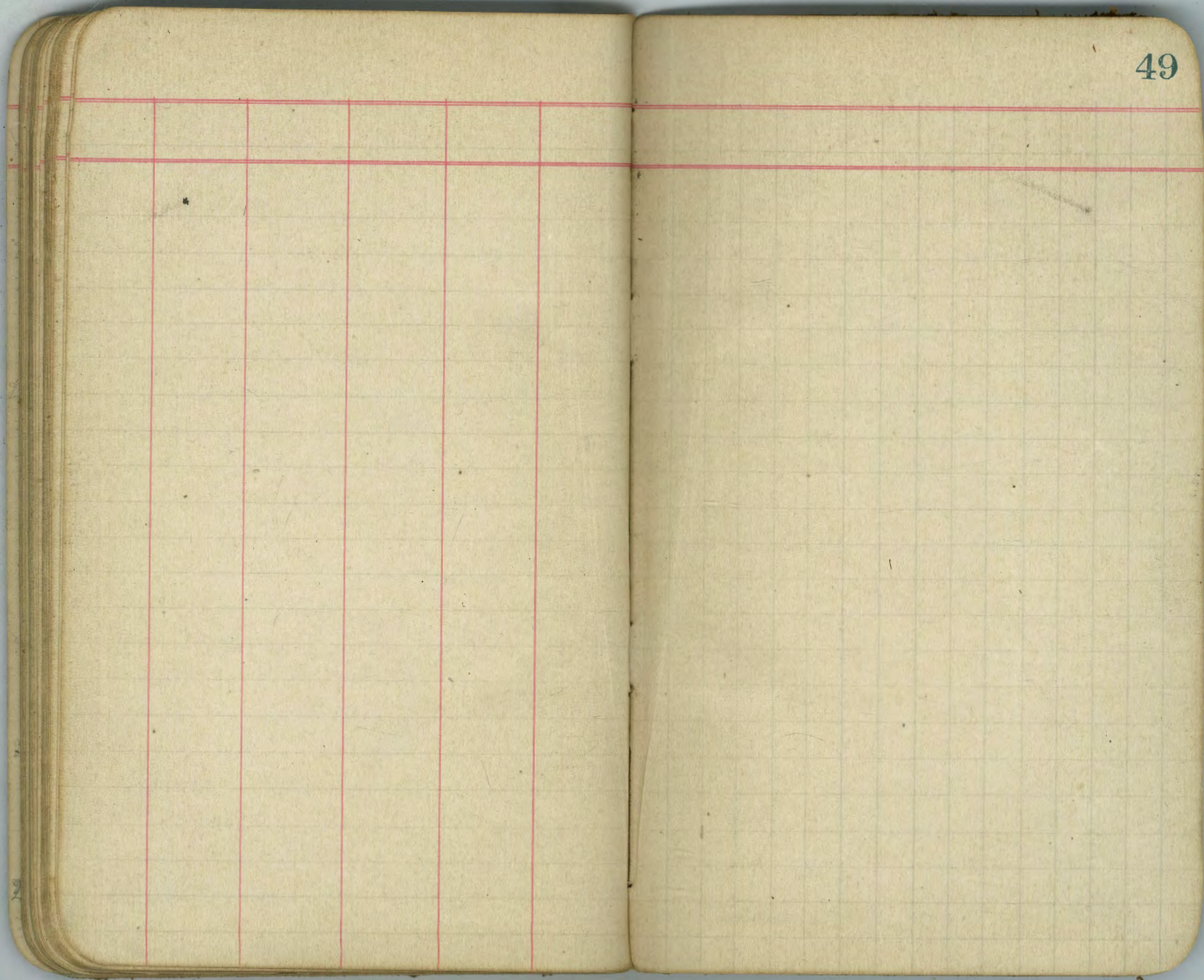
4.09 23.230 6.165 190140

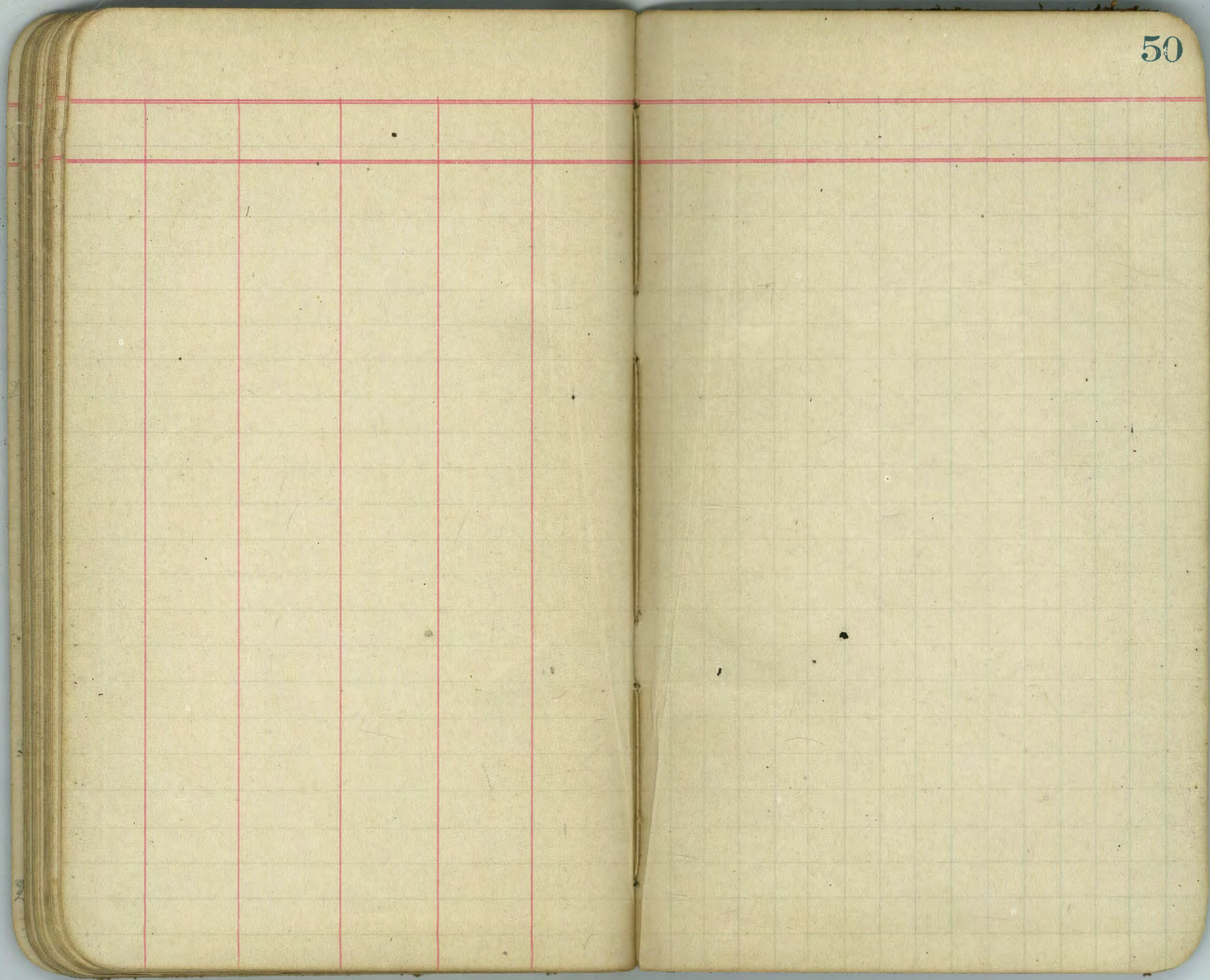
603 16.60 elev of ship
in Rear of old

1.62 24.643 23023

9.44 15.20 elev at curb
line.







K 81 410 H

51

Lateral Sewer Connecting
 Sta. Elev. Road Cut

| | | | | |
|------|------|-------|------|---|
| 0 | 7.93 | -2.39 | 4.32 | 4 |
| +15 | | | | |
| +27 | 2.00 | -2.13 | 4.13 | |
| +52 | 1.93 | -1.88 | 3.81 | |
| +77 | 2.00 | -1.64 | 3.64 | |
| +102 | 2.63 | -1.40 | 4.03 | |
| +27 | 3.10 | -1.15 | 4.25 | |
| +52 | 3.68 | -0.91 | 4.59 | |
| +77 | 4.09 | -0.67 | 4.76 | |
| +102 | 4.26 | -0.43 | 4.69 | |
| +27 | 4.74 | -0.18 | 4.92 | |
| +52 | 5.25 | +0.06 | 5.19 | |
| +67 | 4.97 | +0.21 | 4.76 | |
| +82 | 5.48 | +0.35 | 5.13 | |
| +102 | 5.80 | +0.50 | 5.30 | |

74
6
39.0
5
54
6
60

9 0 8
7 9
3 8.7
7 9
4 6.6
7 9
5 4.5
6.6
6 1.1

+
+
+
+
1+
+
+
+
2+
+
+
+
+
3

117 17
105-00
2,17

117 17
217
79, 84
95
58
12

73-90
23, 410
2, 50

15
79
229
79
08
79
887
79
466
79
545
66
61.1

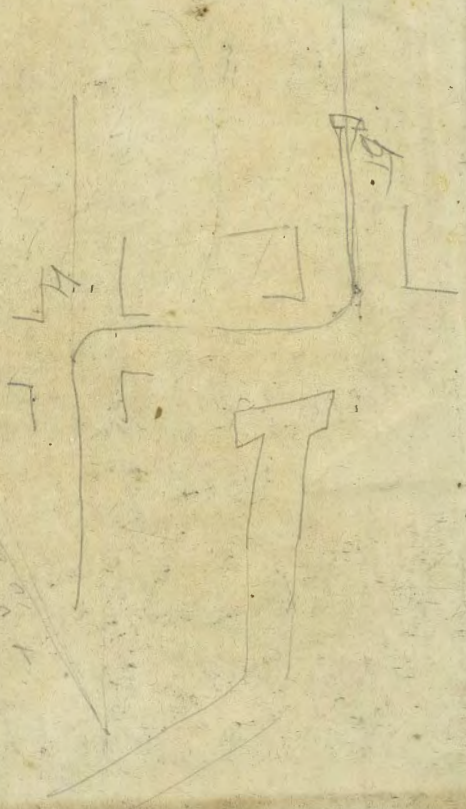


Table showing the difference of latitude and departure in running 80 chains at any course from 1 to 60 minutes.

| MINUTES. | LKS. | MINUTES. | LKS. | MINUTES. | LKS. |
|----------|------|----------|------|----------|------|
| 1..... | 2½ | 21..... | 49 | 41..... | 95½ |
| 2..... | 4½ | 22..... | 51½ | 42..... | 98 |
| 3..... | 7 | 23..... | 53½ | 43..... | 100½ |
| 4..... | 9½ | 24..... | 56 | 44..... | 102½ |
| 5..... | 11½ | 25..... | 58½ | 45..... | 105 |
| 6..... | 14 | 26..... | 60½ | 46..... | 107½ |
| 7..... | 16½ | 27..... | 63 | 47..... | 109½ |
| 8..... | 18½ | 28..... | 65½ | 48..... | 112 |
| 9..... | 21 | 29..... | 67½ | 49..... | 114½ |
| 10..... | 23 | 30..... | 70 | 50..... | 116½ |
| 11..... | 25½ | 31..... | 72½ | 51..... | 119 |
| 12..... | 28 | 32..... | 74½ | 52..... | 121½ |
| 13..... | 30½ | 33..... | 77 | 53..... | 123½ |
| 14..... | 32½ | 34..... | 79½ | 54..... | 126 |
| 15..... | 35 | 35..... | 81½ | 55..... | 128½ |
| 16..... | 37½ | 36..... | 84 | 56..... | 130½ |
| 17..... | 39½ | 37..... | 86½ | 57..... | 133 |
| 18..... | 42 | 38..... | 88½ | 58..... | 135½ |
| 19..... | 44½ | 39..... | 91 | 59..... | 137½ |
| 20..... | 46½ | 40..... | 93½ | 60..... | 140 |

40/14, 54
30

81
3
44

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SAN FRANCISCO, CAL.

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. |
|--------|----------------|--------|----------------|--------|----------------|--------|----------------|
| 0 | | 0 | | 0 | | 0 | |
| 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 |