



18  
10  
7  
40

# G-188

327.4  
5.15  
322.25  
6.45  
328.70

21.0  
16.0  
29.5  
4.7  
16.2  
21.0

Our Leather Bound Engineers Note Books  
are carried in the following rulings:

- No. 380 LEVEL BOOK. Left and Right Hand Page  
the same as Left Hand Page  
of this Book.
- No. 382 FIELD BOOK. Left Hand Page as in this  
Book, Right Hand Page 4x4  
to the inch, Center Line Red.
- No. 384 MINING TRANSIT  
BOOK. Left Hand Page as in this  
Book, Right Hand Page 8x8  
to the inch, Center Line Red.
- No. 385 FIELD BOOK. Left Hand Page as in this  
Book, Right Hand Page 8 ver-  
tical and 4 horizontal lines to  
the inch, Center Line Red.

We also carry the Note Books listed above,  
bound in extra strong Fabri-Hide (otherwise  
the same quality of book,) which can be fur-  
nished at a somewhat lower price.

In ordering Fabri-Hide covered books, add  
the letter "F" to catalog number.

## THE FREDERICK POST CO.

ENGINEERING and DRAFTING SUPPLIES

P. O. Box 803

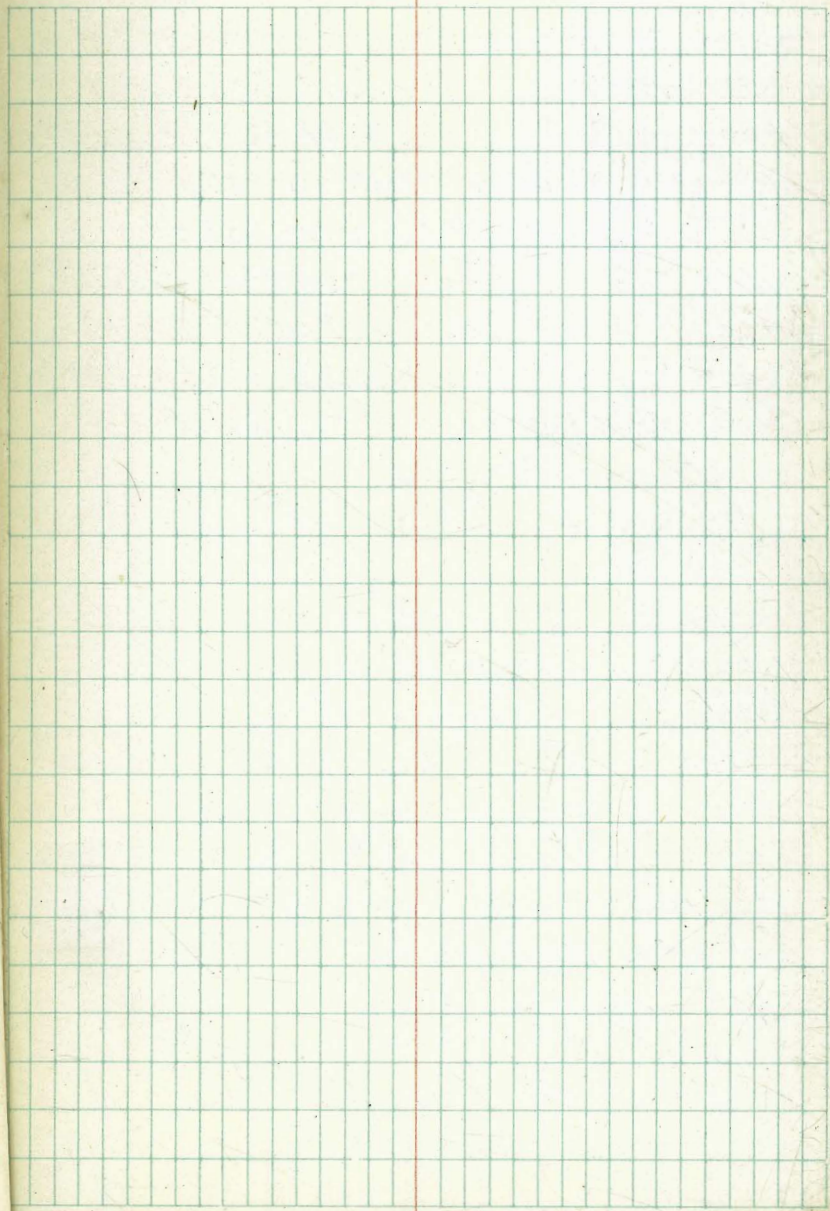
CHICAGO

MICROFILMED

APR 12 1965

MADE IN U.S.A.

7' Pt. R. Ps. W. P. A. ———— 14.



Walker  
 S.P.S.S.  
 2-2-38

Sewer Construction Block 6  
 Florence Heights

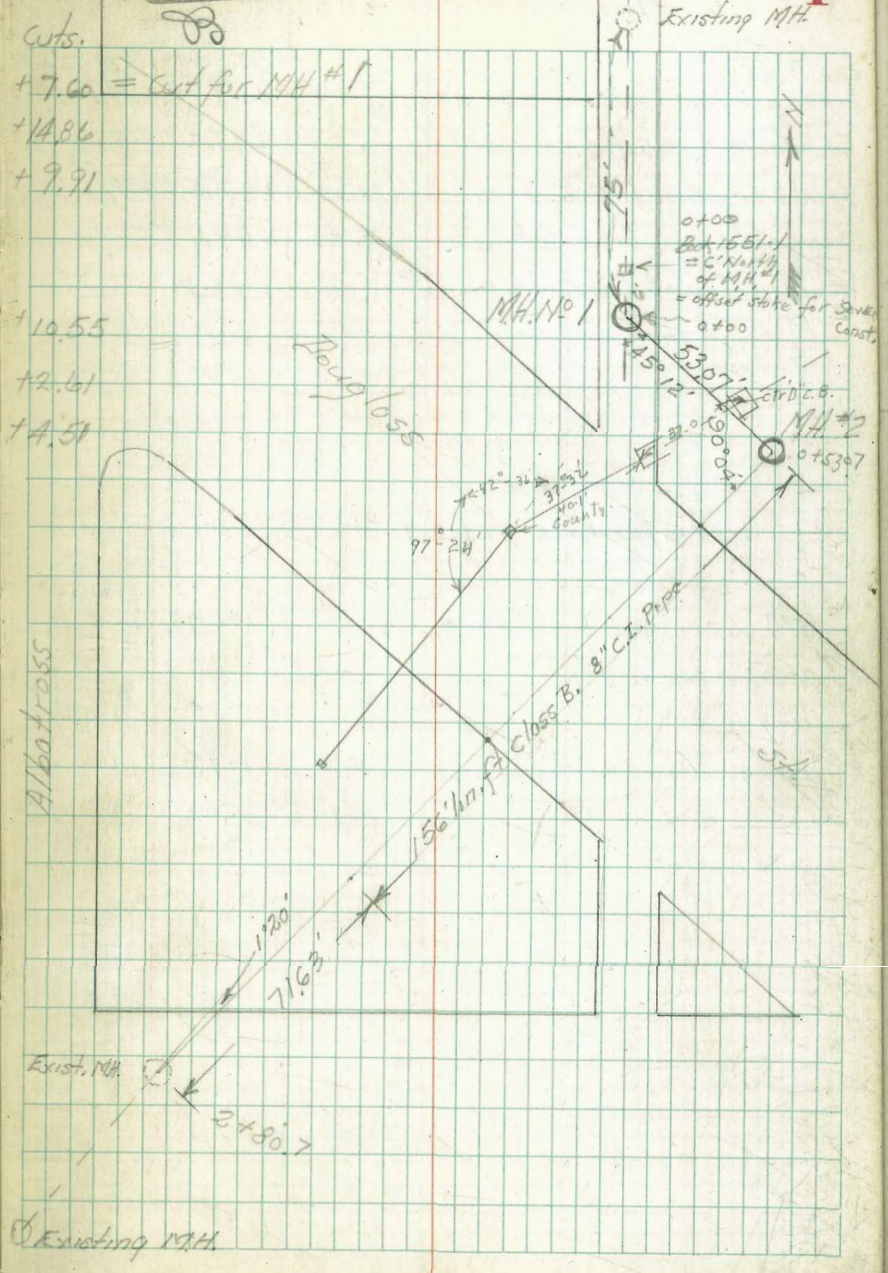
|                               | Elev. Stake | 0+00   | Elev. Stake | Elev.  | Flow Line |
|-------------------------------|-------------|--------|-------------|--------|-----------|
| 17' Back 1551-1               | 2.07        | 248.87 | 246.80      | 239.20 |           |
| 0+53.07 - MH #2               | 2.31        | 246.56 | 231.70      |        |           |
| 1+00                          | 9.49        | 239.38 | 229.47      |        |           |
| T.P.                          | 0.91        | 236.73 | 13.05       | 235.82 |           |
|                               | 2.91        | 238.73 | 0.91        | 235.82 |           |
| 1+50                          | 1.08        | 237.65 | 227.10      |        |           |
| 2+00                          | 11.39       | 227.34 | 224.73      |        |           |
| +40                           | 11.39       | 227.34 | 222.83      |        |           |
| cht. rim M.H. "B" Back 1551-1 | 13.57       | 225.16 | ✓           |        |           |

Indexed

Cuts.

- +7.60 = cut for MH #1
- +14.86
- +9.91
- +10.55
- +12.61
- +4.51

Albatross



Existing MH

2-23-34

Grades for 'D' Type Catch basin  
Florence Hts Playground.

|   |                         |        |        |          |
|---|-------------------------|--------|--------|----------|
| cut. stub                                     |                         |        |        | Sta 1800 |
| Sewer B.M.                                    | 12.41                   | 251.79 | 239.34 | P. 1.    |
| Ex. Sew. M.H.                                 | 5.5. of E. Ex. Culvert. | 4.1    | 245.7  | Top.     |
| 10' off set. stub for C.B.                    | 14.29                   | 237.5  | 246.3  |          |
| Grade of Field at C.B.                        | 5.2                     | 246.6  |        |          |
| Grade of Top of C.B. lowered to collect water |                         | -0.3   | 246.3  |          |

Grades for Lots 28 + 29 Blk 37 Parish + Loomis

|                      |       |        |        |                                  |
|----------------------|-------|--------|--------|----------------------------------|
| B.M.                 | 13.04 | 185.03 | 171.99 | S. W. 26 <sup>th</sup><br>+ G St |
| 0+00 N. Line G.      |       |        |        | W. Line Grades                   |
| 0+50 Brk             |       |        | 178.42 |                                  |
| 1+00 S. Line Lot. 38 | 5.3   | 179.7  | 178.79 |                                  |
| 1+50 N. " " 39       | 4.8   | 180.2  | 179.17 |                                  |
| 2+30 Brk             |       |        | 179.77 |                                  |

Ex. Culvert 401 N. E. 1/4 Δ 37-32

Indexed

2

← Full 8.8 1. Top. G. B

+ 0.9 = 0'-10"  
+ 1 = 0"

2-26-38.

Culverts + Curb Grades at  
Una + Cottonwood St.

See Page

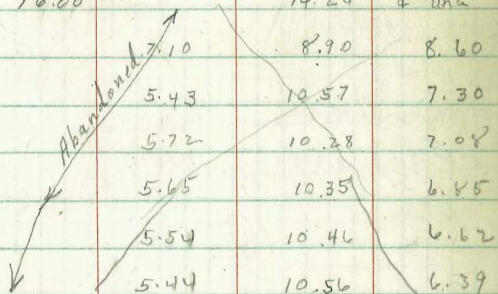
9 Indexed

3

| BM. SW. 7. CT.            | 0.74  | 14.98 | 14.24 | Cottonwood<br>+ Una St's<br>New<br>Grades |
|---------------------------|-------|-------|-------|---|
| 0+00 - Nly Una Cottonwood |       |       | 12.50 |   |
|                           |       |       | 12.48 |   |
|                           |       |       | 9.90  |   |
| 0+40                      |       | 5.15  | 9.83  | Curb at 9.83                              |
|                           |       |       | 8.70  |   |
| +60                       |       | 6.25  | 7.73  | 9.30                                      |
|                           |       |       | 7.93  |   |
| +80                       |       | 7.03  | 7.75  | 8.90                                      |
|                           |       |       | 7.42  |   |
| 1+00                      |       | 7.30  | 7.68  | 8.60                                      |
| 1+08 W. side ch. Outlet   |       | 7.35  | 7.63  |   |
| 1+20                      |       | 7.41  | 7.57  | 8.60                                      |
|                           |       |       | 7.30  |   |
| 1+40                      |       | 7.42  | 7.56  | 8.70                                      |
|                           |       |       | 7.90  |   |
| 1+60                      | Alley | 7.00  | 7.98  | 8.80                                      |
|                           |       |       | 8.53  |   |
| +80                       |       | 6.45  | 8.53  | 8.93                                      |
| 2+00                      |       | 5.84  | 9.10  | 9.10                                      |

| New Grade<br>Roads. | Grade<br>Road | 0.00<br>SHAKE RT |       |
|---------------------|---------------|------------------|-------|
|                     | 5.68          | 5.98             | -0.30 |
|                     | 6.08          | 6.82             | -0.74 |
|                     | 6.38          | 6.78             | -0.40 |
|                     | 6.38          | 6.91             | -0.53 |
|                     | 6.28          | 6.28             | 0.0   |
|                     | 6.18          | 6.58             | -0.40 |
|                     | 6.05          | ✓                | 0.0   |
| Grade OK.           | 0.0           |                  |       |

| BM. SW. 7. CT.      | 1.76 | 16.00 | 14.24 | Cotton wood<br>+ Una |
|---------------------|------|-------|-------|----------------------|
| 0+00 - inlet.       |      |       | 8.90  | 8.60                 |
| 0+16 S. curb. inlet |      |       | 5.43  | 10.57                |
| 0+33                |      |       | 5.72  | 10.28                |
| 0+50                |      |       | 5.65  | 10.35                |
| 0+67 ch. inlet      |      |       | 5.54  | 10.46                |
| 0+84 Δ              |      |       | 5.44  | 10.56                |
| 1+13 outlet.        |      |       | 7.81  | 8.19                 |
| 1+20                |      |       | 7.40  | 8.60                 |
| 2+07 inlet.         |      |       | 7.08  | 8.92                 |
| 2+31 ch. inlet.     |      |       | 8.43  | 7.57                 |
| 2+49                |      |       | 7.64  | 8.36                 |
| 2+67                |      |       | 7.90  | 8.10                 |
| 2+85 ch. inlet.     |      |       | 7.96  | 8.04                 |
| 3+12 outlet.        |      |       | 8.07  | 7.93                 |



| Grade Change |      |      |         |
|--------------|------|------|---------|
| +0.30 ✓      |      |      |         |
| +3.27 ✓      |      |      |         |
| +3.20 ✓      |      |      |         |
| +3.50 ✓      |      |      |         |
| +3.84 ✓      |      |      |         |
| +4.17 ✓      | 9.08 | 6.68 | +2.40   |
| +2.19 ✓      |      | 6.46 | +1.73 ✓ |
| +3.00        |      | 6.01 | +2.59 ✓ |
| +3.72 ✓      |      | 5.76 | +3.16 ✓ |
| +2.55 ✓      |      | 5.57 | +2.00 ✓ |
| +3.46 ✓      |      | 5.46 | +2.90 ✓ |
| +3.33 ✓      |      | 5.33 | +2.77 ✓ |
| +3.39 ✓      |      | 5.20 | +2.84   |
| +3.43 ✓      |      | 5.00 | +2.93 ✓ |

3-7-34

W.P.H. Water Mains.  
40<sup>th</sup> St East N of Ocean View.

| BM I.C.T.                       | 10.45 | 92.63  | 82.18 | n.w. 40 <sup>th</sup><br>+ Ocean View |
|---------------------------------|-------|--------|-------|---------------------------------------|
| 0+00 = N. Line Ocean View Blvd. |       | 15.1   | 77.5  | 77.5                                  |
| 0+40                            |       | 10.9   | 81.7  | 78.5                                  |
| 0+80                            |       | 9.8    | 82.8  | 79.5                                  |
| 1+20                            |       | 8.2    | 84.4  | 80.8                                  |
| 1+60                            |       | 6.0    | 86.6  | 83.0                                  |
| 2+00                            |       | 3.5    | 89.1  | 86.0                                  |
| T.P.                            | 11.47 | 103.62 | 0.48  | 92.15                                 |
| 2+40                            |       | 10.7   | 92.9  | 90.0                                  |
| 2+80 S. Line Franklyn           |       | 6.9    | 96.7  | 93.5                                  |
| 3+20 N. Line Franklyn           |       | 5.4    | 98.2  | 94.5                                  |
| 3+60                            |       | 3.0    | 100.6 | 97.5                                  |
| 4+00                            |       | 2.3    | 101.3 | 98.0                                  |
| 4+40                            |       | 4.9    | 98.7  | 95.4 ✓                                |
| 4+80                            |       | 6.4    | 97.2  | 93.7                                  |
| 5+20                            |       | 6.6    | 97.0  | 93.0                                  |
| 5+60                            |       | 4.6    | 99.0  | 96.0                                  |
| T.P.                            |       |        |       |                                       |
| 6+00                            | 13.7  | 116.0  | 1.3   | 102.3                                 |
| 6+40                            |       | 10.7   | 105.3 | 102.1                                 |
| 6+80                            |       | 8.5    | 107.5 | 104.2                                 |
| 7+20                            |       | 7.2    | 108.8 | 105.6                                 |
| 7+60                            |       | 6.5    | 109.5 | 106.2                                 |
| 8+00                            |       | 6.1    | 109.9 | 106.4                                 |
| 8+40                            |       | 5.9    | 110.1 | 106.6                                 |
| 8+80                            |       | 5.7    | 110.3 | 106.8                                 |
| 9+20                            |       | 5.7    | 110.3 | 107.0                                 |
| 9+60 S. Line Imperial           |       | 5.3    | 110.7 | 107.5                                 |

Indexed

S. of Franklyn  
Fire Hydr. 5' E. of 40<sup>th</sup> St
 $\pi$  103.62  
 Rod 7.50  
 CI 96.12  
 Grade
Fire Hydr. E. of 40<sup>th</sup> St S. of

Mig Car Park.

116.0  $\pi$ 

5.9

110.1

110.7

-0.6

116.0  $\pi$ 

10400

11.8

111.2

3.2

108.0

|  |      |                            |       |
|--|------|----------------------------|-------|
| T.P.                                   | 0.18 | 96.30                      | 96.12 |
|  |      | + 60 E of 40 <sup>th</sup> |       |
| S. ct                                  |      | 13.40                      | 82.90 |
| S.N = Pipe                             |      | 13.6                       | 82.7  |
| N. ct                                  |      | 14.0                       | 82.30 |
|  |      |                            | 78.8  |
| 150. E. stub                           |      | 13.2                       | 83.1  |
| 100. E                                 |      | 10.2                       | 86.1  |
| 50. E                                  |      | 5.8                        | 90.5  |
| 00 = Hydt. T. E. E of 40 <sup>th</sup> |      | 1.0                        | 95.3  |
|  |      |                            | 92.0  |
| Stub S. S. of Hydt.                    |      | 0.2                        | 96.1  |
|  |      |                            | 95.9  |

Pipe  
Grade

+3.5

+3.5

+3.1

+3.0

+3.0

+0.7



5-24-34

Grades. Alley BIK 4 Amended  
 Sub. Lots 7-17 BIK. N Teralta  
 Polk to Orange bet Wabash + 34<sup>th</sup>

B.M. B.P. 8.73 375.39 366.66 N.W. 38<sup>rd</sup>  
 Orange

T.P.

0+00 S. Line Grap.  $\begin{array}{r} \text{cl} \\ 370.62 \\ 4.77 \end{array}$   $\begin{array}{r} \text{M.} \\ 370.52 \end{array}$   $\begin{array}{r} E \\ 370.84 \end{array}$   $\begin{array}{r} \text{cl} \\ 370.96 \\ 4.43 \end{array}$

0+20 B  $\begin{array}{r} 370.51 \\ 4.88 \\ 7.58 \\ 10.30 \end{array}$   $\begin{array}{r} 370.81 \\ 4.58 \\ 4.36 \\ 10.22 \end{array}$

0+60 B  $\begin{array}{r} 370.37 \\ 5.02 \\ 5.08 \\ -0.06 \end{array}$   $\begin{array}{r} 370.67 \\ 4.72 \\ 4.64 \\ 10.08 \end{array}$

0+80 B  $\begin{array}{r} 370.22 \\ 5.17 \\ 5.44 \\ 0.27 \end{array}$   $\begin{array}{r} 370.52 \\ 4.87 \\ 4.65 \\ 10.22 \end{array}$

1+00 B  $\begin{array}{r} 369.93 \\ 5.46 \\ 6.14 \\ -0.68 \end{array}$   $\begin{array}{r} 370.23 \\ 5.16 \\ 4.16 \\ 11.00 \end{array}$

1+46.2  $\begin{array}{r} 369.04 \\ 6.31 \\ 6.62 \\ -0.31 \end{array}$   $\begin{array}{r} 369.38 \\ 6.01 \\ 6.06 \\ -0.05 \end{array}$

1+93<sup>55</sup> End of Pav.  $\begin{array}{r} 368.23 \\ 7.16 \\ 7.37 \\ -0.21 \end{array}$   $\begin{array}{r} 368.53 \\ 6.86 \\ 4.86 \\ 12.00 \end{array}$

3+00 B. 366.27 366.57

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6-10-38 Parking Area North of Ford Bldg

2

5+27

SAW. Road.

5+12  
2 77  
2 35

payd  
107.62  
2.02  
109.70

4+82

|               |               |               |                 |                 |
|---------------|---------------|---------------|-----------------|-----------------|
| 106.9<br>2.9V | 107.0<br>2.7V | 107.0<br>2.7V | 107.0<br>2.7V   | 106.85<br>2.7V  |
| 106.3<br>3.4V | 106.4<br>3.3V | 106.4<br>3.3V | 106.4<br>3.3V   | 106.25<br>3.4V  |
| 105.7<br>4.0V | 105.8<br>3.9V | 105.8<br>3.9V | 105.8<br>3.9V   | 105.25<br>4.05V |
| 105.1<br>4.6V | 105.2<br>4.5V | 105.2<br>4.5V | 105.25<br>4.55V | 105.05<br>4.65V |
| 104.5<br>5.2V | 104.6<br>5.1V | 104.6<br>5.1V | 104.55<br>5.15V | 104.55<br>5.25V |
| 103.9<br>5.8V | 104.0<br>5.7V | 104.0<br>5.7V | 103.95<br>5.75V | 103.85<br>5.95V |
| 103.3<br>6.4V | 103.4<br>6.3V | 103.4<br>6.3V | 103.35<br>6.35V | 103.25<br>6.45V |

2+77

|       |       |                      |       |       |
|-------|-------|----------------------|-------|-------|
| 102.7 | 102.4 | 102.8<br>6.9<br>PENV | 102.8 | 102.7 |
|-------|-------|----------------------|-------|-------|

103.89

SAW. Road.

2+52 1.75

|      |      |      |      |      |
|------|------|------|------|------|
| 1.66 | 1.75 | 1.74 | 1.70 | 1.75 |
|------|------|------|------|------|

2+20 2.26

|                |                |                |                |                |      |
|----------------|----------------|----------------|----------------|----------------|------|
| 101.66<br>2.23 | 101.64<br>2.25 | 101.64<br>2.27 | 101.59<br>2.30 | 101.55<br>2.34 | 2.44 |
|----------------|----------------|----------------|----------------|----------------|------|

1+90 2.97

|                |                |                |                |                |      |
|----------------|----------------|----------------|----------------|----------------|------|
| 101.00<br>2.89 | 101.03<br>2.86 | 101.03<br>2.86 | 101.03<br>2.86 | 100.99<br>2.90 | 2.98 |
|----------------|----------------|----------------|----------------|----------------|------|

1+60 3.55

|                |                |                |                |                |      |
|----------------|----------------|----------------|----------------|----------------|------|
| 100.42<br>3.47 | 101.44<br>3.45 | 100.44<br>3.45 | 100.44<br>3.45 | 100.37<br>3.52 | 3.60 |
|----------------|----------------|----------------|----------------|----------------|------|

1+30 4.15

|               |               |               |               |               |      |
|---------------|---------------|---------------|---------------|---------------|------|
| 99.85<br>4.04 | 99.85<br>4.04 | 99.85<br>4.04 | 99.80<br>4.09 | 99.71<br>4.18 | 4.26 |
|---------------|---------------|---------------|---------------|---------------|------|

1+00 4.71

|               |               |               |               |               |      |
|---------------|---------------|---------------|---------------|---------------|------|
| 99.26<br>4.63 | 99.26<br>4.63 | 99.26<br>4.63 | 99.20<br>4.69 | 99.14<br>4.75 | 4.78 |
|---------------|---------------|---------------|---------------|---------------|------|

0+70 5.30

|               |               |               |               |               |      |
|---------------|---------------|---------------|---------------|---------------|------|
| 98.67<br>5.22 | 98.67<br>5.22 | 98.67<br>5.22 | 98.61<br>5.28 | 98.55<br>5.34 | 5.41 |
|---------------|---------------|---------------|---------------|---------------|------|

0+40 5.88

|               |               |               |               |               |      |
|---------------|---------------|---------------|---------------|---------------|------|
| 98.08<br>5.81 | 98.08<br>5.81 | 98.08<br>5.81 | 98.00<br>5.89 | 97.92<br>5.97 | 6.05 |
|---------------|---------------|---------------|---------------|---------------|------|

0+00

|       |               |                       |               |      |
|-------|---------------|-----------------------|---------------|------|
| 6.63  | PayOK<br>6.70 | 6.58<br>PayOK<br>6.54 | PayOK<br>6.65 | 6.63 |
| 97.31 |               |                       |               |      |

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7

100.00  
4.67  
104.67  
1.09  
103.58  
6.33  
109.91

109.83

pay. 107.62  
2.21

|                 |                       |                       |                       |                 |
|-----------------|-----------------------|-----------------------|-----------------------|-----------------|
| 106.9<br>3.01   | 107.0<br>2.91V        | 107.0<br>2.91V        | 107.0<br>2.91V        | 106.85<br>3.06V |
| 106.3<br>3.41V  | 106.4<br>3.51V        | 106.4<br>3.51V        | 106.4<br>3.51V        | 106.25<br>3.46V |
| 105.7<br>4.21V  | 105.8<br>4.11V        | 105.8<br>4.11V        | 105.8<br>4.11V        | 105.45<br>4.26V |
| 105.1<br>4.81V  | 105.2<br>4.71V        | 105.2<br>4.71V        | 105.15<br>4.76V       | 105.05<br>4.86V |
| 104.5<br>5.41V  | 104.6<br>5.31V        | 104.6<br>5.31V        | 104.55<br>5.36V       | 104.45<br>5.46V |
| 103.9<br>6.01V  | 104.0<br>5.91V        | 104.0<br>5.91V        | 103.95<br>5.96V       | 103.85<br>6.06V |
| 103.30<br>6.61V | 103.4<br>6.51V        | 103.4<br>6.51V        | 103.35<br>6.56V       | 103.25<br>6.66V |
| 102.7<br>7.13   | 102.8<br>7.03<br>6.11 | 102.8<br>7.03<br>6.11 | 102.8<br>7.03<br>6.11 | 102.7           |

104.67

102.25  
2.42

|                 |                |                |                |                |
|-----------------|----------------|----------------|----------------|----------------|
| 101.66<br>3.01V | 101.64<br>3.05 | 101.62<br>3.08 | 101.59<br>3.11 | 101.55<br>3.12 |
| 101.00<br>3.67  | 101.03<br>3.64 | 101.03<br>3.64 | 101.03<br>3.64 | 101.00<br>3.67 |
| 100.42<br>4.25  | 100.44<br>4.23 | 100.44<br>4.23 | 100.44<br>4.23 | 100.37<br>4.30 |
| 99.85<br>4.82   | 99.85<br>4.82  | 99.85<br>4.82  | 99.80<br>4.82  | 99.71<br>4.90  |
| 99.26<br>5.41   | 99.26<br>5.41  | 99.26<br>5.41  | 99.20<br>5.41  | 99.14<br>5.50  |
| 98.67<br>6.00   | 98.67<br>6.00  | 98.67<br>6.00  | 98.61<br>6.00  | 98.55<br>6.12  |
| 98.08<br>6.59   | 98.08<br>6.59  | 98.08<br>6.59  | 98.00<br>6.59  | 97.92<br>6.75  |

8-8-34 Curb Grades S. Side B. St at 31st  
W.P.H.

| BM                | 3.35            | 210.09          | 206.74                                   | N.W. 3rd<br>+ B. St |
|-------------------|-----------------|-----------------|--|---------------------|
| 0+00 W. Line 31st | 0+40 W          | 0+80 W          | 0+91 W                                   | 1+20 W              |
| 205.00            | Stake<br>204.25 | Stake<br>203.48 | Stake<br>203.50                          | Stake<br>204.30     |
| 5.09              | 5.84            | 6.61            | 6.52                                     | 5.79                |
| 204.70            |                 | 203.00          | 6.91                                     | 4.07                |
| 5.79              |                 | 0.50 low        | 0.32                                     | 0.28                |
| 5.53              |                 | Grade 203.50    |  |                     |
| -.14              |                 |                 |  |                     |
|                   |                 |                 | 100 stake<br>Low Point<br>203.30<br>6.79 |                     |

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|            |          |      |        |
|------------|----------|------|--------|
| 1+80       | 2+00     | 2+02 | 3+00   |
| 204.90     | 205.50   |      | 214.50 |
| Stake 5.19 | 4.59     |      |        |
| 5.24       | 4.57     |      |        |
| 0.07 low   | 0.07 low |      |        |

9-15-34 Curb Inlet + Outlet S.E. Cor Central + Univ.

350.85 Mid N. Line

351.98 Track

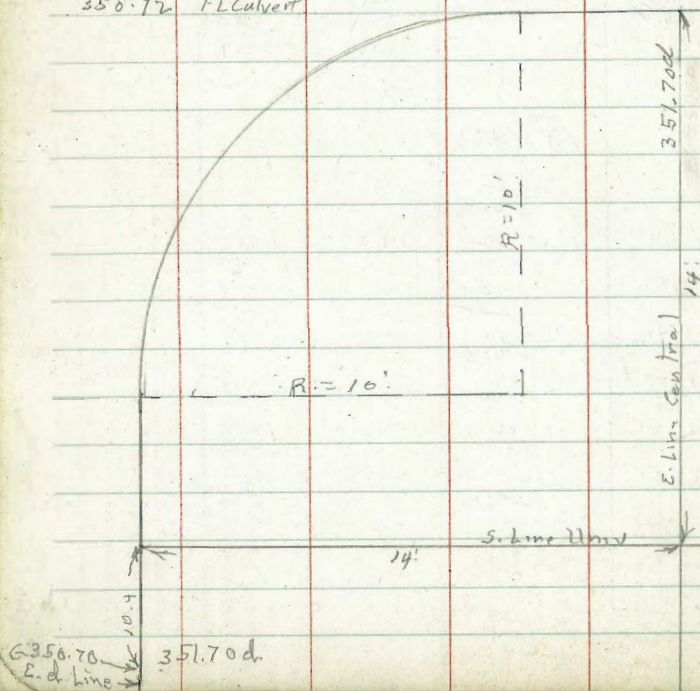
350.72 FL Culvert

BM. B.P. NW Central 351.93  
+ Univ. 5.06  
356.99

5.01 6.27 5.29  
351.98 350.72 351.70

| N. Line | 10' S. of S. Line |        | 20' S. of S. Line |      |
|---------|-------------------|--------|-------------------|------|
| G.      | G.                | Ch.    | G.                | Ch.  |
| 6.14    | 6.29              | 5.29   | 6.31              | 5.46 |
| 350.85  | 350.70            | 351.70 | 350.64            |      |

S. d. line



## Curb Grade Change at

Cottonwood + Una

See Page 3.

| BM.                             | 2.24    | 14.24 | 9.00                                |
|---------------------------------|---------|-------|-------------------------------------|
| 00 = N. Line Cottonwood E. Curb |         |       | <u>4.15</u><br><u>(3.13)</u>        |
| 0+40                            | 4.65    | 9.83  | 8.15<br><u>4.98</u>                 |
| 0+60                            |         |       | 8.20<br><u>4.93</u>                 |
| 0+80                            |         |       | 8.04<br><u>5.05</u>                 |
| 1+00                            |         |       | <u>9.30</u><br><u>3.83</u>          |
| 1+20                            |         |       | 4.67<br><u>3.83</u><br><u>-0.84</u> |
| 1+38                            |         |       | 8.34                                |
| 1+40                            |         |       | <u>4.75</u>                         |
| 2+00                            |         |       |                                     |
| 2+20                            | 4.88    | 9.60  | 8.63<br><u>4.50</u>                 |
| 2+40                            |         |       |                                     |
| 0+00 = N. Line Cottonwood       | W. Curb |       | 8.90<br><u>4.23</u>                 |
| 0+40                            | 5.48    | 11.09 |                                     |
| 0+60                            | 6.63    | 9.85  | 8.70<br><u>4.43</u>                 |
| 0+80                            | 7.48    | 9.00  | 5.10<br><u>0.67</u>                 |
| 1+00                            | 8.18    | 8.30  |                                     |
| 1+20                            |         |       |                                     |
| 1+38                            |         |       |                                     |
| 1+40                            | 8.25    | 8.23  | 8.70                                |
| 1+80                            | 7.85    | 8.63  |                                     |
| 2+00                            | 7.45    | 9.03  |                                     |
| 2+20                            | 6.98    | 9.50  |                                     |
| 2+40                            |         |       |                                     |

## Indexed

Stake Rod Stake El

Curb

Grade

| Stake Rod | Stake El | Curb Grade |                  |
|-----------|----------|------------|------------------|
|           |          | 9.83       | ex. el. OK       |
| 7.48      | 9.00     | 9.66       | -0.66 ✓          |
| 8.33      | 8.15     | 9.52       | -1.37 ✓          |
| 8.28      | 8.20     | 9.38       | -1.18 ✓          |
| 8.40      | 8.08     | 9.24       | -1.16 ✓          |
| 7.78      | 8.70     | 9.10       | -0.30 ✓          |
| 8.10      | 8.38     | 9.10       | -0.72 ✓          |
| 7.55      | 8.98     | 9.25       | -0.32 ✓ ✓        |
| 7.32      | 9.16     | 9.40       | -0.24 ✓          |
|           |          | 9.60       | Ex. Curb. OK     |
|           |          | 11.00      | ex. el           |
| 6.51      | 9.97     | 10.30      | -0.33            |
| 7.37      | 9.11     | 9.80       | -0.169           |
| 8.11      | 8.37     | 9.30       | -0.93            |
| 8.42      | 8.06     | 8.90       | -0.84            |
| 7.84      | 8.64     | 8.70       | -0.06 8.35       |
| 8.13      | 8.35     | 8.70       | -0.25 8.13 +0.45 |
| 7.75      | 8.73     | 8.90       | -0.17            |
| 7.38      | 9.10     | 9.15       | -0.05            |
|           |          | 9.50       | ex. el. OK.      |

Feb -38 Levels for Walk + Curb. Grades. N. side Adams. East of 33rd St.

| BM                              | 4.77   | 104.77 | Assumed<br>100.00 | N. V. 7' E. J.<br>33rd + Adams |
|---------------------------------|--------|--------|-------------------|--------------------------------|
| 12' W. of E. Line = 2. db. 33rd |        |        |                   |                                |
| 25' N. of Adams.                | cl     | 4.30   |                   |                                |
| " " "                           | gutter | 4.93   |                   |                                |
| 9' " "                          | "      | 4.95   |                   |                                |
| " " "                           | cl     | 4.30   |                   |                                |
| N. Line Adams.                  | "      | 4.35   | d. ok             |                                |
| " " "                           | gutter | 4.95   |                   |                                |
| 12' S = N. cl. Adams            | "      | 5.05   |                   |                                |
| 6.5' W. of E. Line              |        |        |                   |                                |
| N. Line                         |        | 4.26   |                   |                                |
| 9' North                        |        | 4.19   |                   |                                |
| 25' "                           |        | 4.10   |                   |                                |
| 1.5' W. of E. Line              |        |        |                   |                                |
| 25' N                           |        | 4.10   |                   |                                |
| 9' N                            |        | 4.17   |                   |                                |
| 3' N                            |        | 4.32   |                   |                                |
| N. Line                         |        | 4.34   |                   |                                |
| 7' S                            |        | 4.20   |                   |                                |
| 0+00 E. Line 33rd St            |        |        |                   |                                |
| 2' S of cl. Nail                |        | 5.01   | G. R.<br>4.40     | -0.61                          |
| G.                              |        | 5.10   |                   |                                |
| 12' S. of N. = cl.              |        | 4.42   |                   |                                |
| 7' S                            |        | 4.23   |                   |                                |
| 2' S                            |        | 4.28   |                   |                                |
| N. Line Adams                   |        | 4.17   |                   |                                |

Indexed

104.77

|                             |  |      |               |       |
|-----------------------------|--|------|---------------|-------|
| 9' N.                       |  | 4.15 |               |       |
| 25' N                       |  | 4.10 |               |       |
| 0+12 E                      |  |      |               |       |
| N. Line & entrance to store |  | 3.98 |               | Fit   |
| 2' S.                       |  | 4.09 |               |       |
| 7' S                        |  | 4.14 |               |       |
| 12' S = cl                  |  | 4.36 |               | 4.36  |
| Gutter                      |  | 5.03 |               |       |
| 2' S = Nail                 |  | 4.95 | G. R.<br>4.36 | -0.59 |
| 0+22 E                      |  |      |               |       |
| N.                          |  | 4.16 |               |       |
| 2' S                        |  | 4.06 |               |       |
| 7' S                        |  | 4.14 |               |       |
| cl                          |  | 4.30 |               |       |
| 30' E                       |  |      |               |       |
| N. Line                     |  | 3.86 |               |       |
| 2' S                        |  | 3.94 |               |       |
| 7' S                        |  | 4.05 |               |       |
| cl                          |  | 4.26 |               |       |
| 36' E                       |  |      |               |       |
| N.                          |  | 3.81 |               | Fit   |
| 2' S                        |  | 3.96 |               |       |
| 7' S                        |  | 4.04 |               |       |
| 12' S = cl                  |  | 4.21 |               | 4.27  |
| G                           |  | 4.95 |               |       |
| 2' S = Nail                 |  | 4.81 | G. R.<br>4.27 | -0.54 |

104.77

0+50 E,

|      |      |
|------|------|
| N    | 3.90 |
| 2' S | 3.95 |
| 7' S | 3.98 |
| cb   | 4.17 |

0+60 E,

|         |                   |      |          |
|---------|-------------------|------|----------|
| N. Line | Entrance to store | 3.69 | Fit this |
| 2' S    |                   | 3.80 |          |
| 7' S    |                   | 3.86 |          |
| cb      |                   | 4.10 | 4.18     |
| G.      |                   | 4.78 |          |

|             |      |      |       |
|-------------|------|------|-------|
| 2' S = Nail | 4.66 | 4.18 | -0.48 |
|-------------|------|------|-------|

0+72 = E. End. Bldg.

0+75 E,

|         |      |
|---------|------|
| N. Line | 3.80 |
| 2' S    | 3.86 |
| 7' S    | 3.92 |
| cb      | 4.12 |

0+84 E

|             |                   |      |       |
|-------------|-------------------|------|-------|
| N. Line     | Entrance to store | 3.56 | Fit   |
| 2' S        |                   | 3.73 |       |
| 7' S        |                   | 3.88 |       |
| cb          |                   | 3.98 | 4.09  |
| G           |                   | 4.74 |       |
| 2' S = Nail | 4.61              | 4.09 | -0.52 |

0+95 E = E. Line building

|         |      |
|---------|------|
| N. Line | 3.75 |
| + 2' S  | 3.84 |
| + 7' S  | 3.77 |
| cb.     | 4.06 |

104.77

1+00 E

11

Walk + curb from here East. o.K.

|               |      |      |
|---------------|------|------|
| N. Line       | 3.64 |      |
| + 2' S        | 3.72 |      |
| + 7' S        | 3.86 |      |
| + 12.5 S = cb | 4.03 | 4.03 |



3-9-38

81

Gutter Grades Hawley Blvd  
Adams. Ave North  
E. Side

| B.M. B.P.          | 4.41 | 397.19 | 392.78             |
|--------------------|------|--------|--------------------|
|                    |      |        | E Pav r Rod Pav E1 |
| 0+00 N. Line Adams |      |        | 5.87 91.32         |
| 0+25               |      |        | 5.70 91.49         |
| +50                |      |        | 5.69 91.50         |
| +75                |      |        | 5.67 91.52         |
| 1+00               |      |        | 5.60 91.55         |
| +25                |      |        | 5.68 91.51         |
| +47                |      |        | 5.67 91.52         |
| +75                |      |        | 5.61 91.58         |
| 2+04               |      |        | 5.60 91.59         |
| +25                |      |        | 5.60 91.59         |
| +50                |      |        | 5.59 91.60         |
| +75                |      |        | 5.64 5             |
| 3+00               |      |        | 5.45               |
| +25                |      |        | 5.47               |
| +50                |      |        | 5.55               |

| T.P. | 5.07 | 397.19 | 5.07 | 392.12 |
|------|------|--------|------|--------|
|------|------|--------|------|--------|

|      |  |  |      |
|------|--|--|------|
| +72  |  |  | 5.46 |
| 4+00 |  |  | 5.48 |
| +25  |  |  | 5.45 |
| +50  |  |  | 5.43 |
| +75  |  |  | 5.42 |
| 4+93 |  |  | 5.37 |

## Indexed

13

Pod. on c. 108 Grade Rod.

| Pod. on c. | Grade Rod.   | Gutter OK |
|------------|--------------|-----------|
|            | 5.87         | 0.0       |
| 5.42       | 5.78         | +0.36 ✓   |
| 5.47       | 5.76         | +0.29 ✓   |
| 5.50       | 5.74         | +0.24 ✓   |
| 5.51       | 5.72         | +0.21 ✓   |
| 5.56       | 5.70         | +0.14 ✓   |
| 5.55       | 5.68         | +0.13 ✓   |
| 5.47       | 5.66         | +0.19 ✓   |
| 5.33       | 5.64         | +0.31 ✓   |
| 5.38       | 5.62         | +0.24 ✓   |
| 5.38       | 5.60         | +0.22 ✓   |
| 5.48       | 5.58         | +0.10 ✓   |
| 5.22       | 5.56         | +0.34 ✓   |
| 5.23       | 5.54         | +0.31 ✓   |
| 5.32       | 5.52         | +0.20 ✓   |
| 5.27       | 5.50         | +0.23 ✓   |
| 5.19       | 5.48         | +0.29 ✓   |
| 5.24       | 5.46         | +0.22 ✓   |
| 5.26       | 5.44         | +0.18 ✓   |
| 5.25       | 5.42         | +0.17 ✓   |
| 5.21       | 5.37 Ex Pav. | +0.09     |



c.T. Replaced  
3-22-38  
Broadway

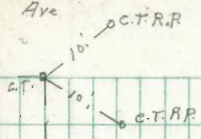
c.T. Replaced  
3/16/38

R.P. set 5-24-39  
Robinson Ave

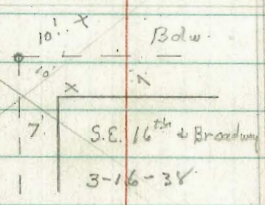
Continued from  
G.B. 186-P. 3.

SW Cor 23rd &  
Broadway  
3/9/38

N.E. Cor 20th  
& Broadway  
3/9/38

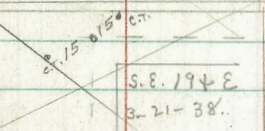


Replaced  
4-12-38



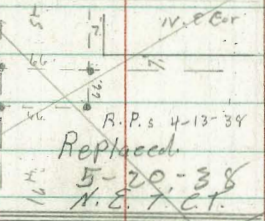
O.K. 5-20-38  
S.E. Cor  
19th & C.  
R.P. 3-19-28

Replaced  
5-20-38



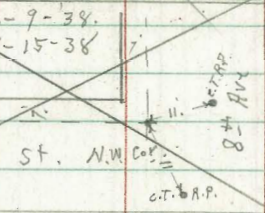
N.W. Cor 5th & Robinson  
Robinson Ave  
R.P.s 5/11/38  
Replaced  
5-20-38

Broadway



J. St.  
S.W. Cor 20th  
& J. St.  
R.P.s 6-9-38  
Reset 8-15-38

R.P.s 6-9-38  
Reset 8-15-38



2-2-29 R.P.s.  
Broadway  
S.W. Cor  
State St.

Gutter Grades Hawley Blvd  
Adams North  
W. side

397.19

G. P. Rod G. P. 21

|                     |      |        |      |        |
|---------------------|------|--------|------|--------|
| 00 = N. Line Adams. |      |        | 6.10 |        |
| 0+25                |      |        | 6.09 |        |
| 0+50                |      |        | 6.02 |        |
| 0+75                |      |        | 5.96 |        |
| 1+00                |      |        | 5.87 |        |
| +25                 |      |        | 5.89 |        |
| +50                 |      |        | 5.91 |        |
| +75                 |      |        | 5.87 |        |
| 1+95                |      |        | 5.72 |        |
| 2+00                |      |        | 5.80 |        |
| +25                 |      |        | 5.75 |        |
| +45                 |      |        | 5.77 |        |
| +50                 |      |        | 5.70 |        |
| +75                 |      |        | 5.77 |        |
| +82 High Pt.        |      |        | 5.77 |        |
| 3+00                |      |        | 5.67 |        |
| +25                 |      |        | 5.80 |        |
| +50                 |      |        |      |        |
| T.P.                | 5.07 | 397.19 | 5.07 | 392.12 |
| +72                 |      |        | 5.68 |        |
| +80 High Pt.        |      |        | 5.50 |        |
| 4+05                |      |        | 5.76 |        |
| +25                 |      |        | 5.81 |        |
| +54                 |      |        | 5.80 |        |
| +75                 |      |        | 5.70 |        |
| 5+00                |      |        | 5.73 |        |

Indexed

15

Redon Cut Grade Rod.

| Redon Cut | Grade Rod. |       |
|-----------|------------|-------|
|           | 6.10       | 0.00  |
| 5.72      | 6.08       | +0.36 |
| 5.84      | 6.06       | +0.22 |
| 5.64      | 6.04       | +0.40 |
| 5.58      | 6.02       | +0.44 |
| 5.61      | 6.00       | +0.39 |
| 5.54      | 5.98       | +0.44 |
| 5.62      | 5.96       | +0.34 |
| 5.50      | 5.94       | +0.44 |
| 5.52      | 5.92       | +0.40 |
| 5.47      | 5.90       | +0.43 |
| 5.46      | 5.88       | +0.42 |
| 5.42      | 5.86       | +0.44 |
| 5.35      | 5.84       | +0.49 |
| 5.40      | 5.82       | +0.42 |
| 5.30      | 5.80       | +0.50 |
| 5.32      | 5.78       | +0.46 |
| 5.39      | 5.76       | +0.37 |
| 5.42      | 5.74       | +0.32 |
| 5.35      | 5.72       | +0.27 |
| 5.39      | 5.70       | +0.31 |

397.19

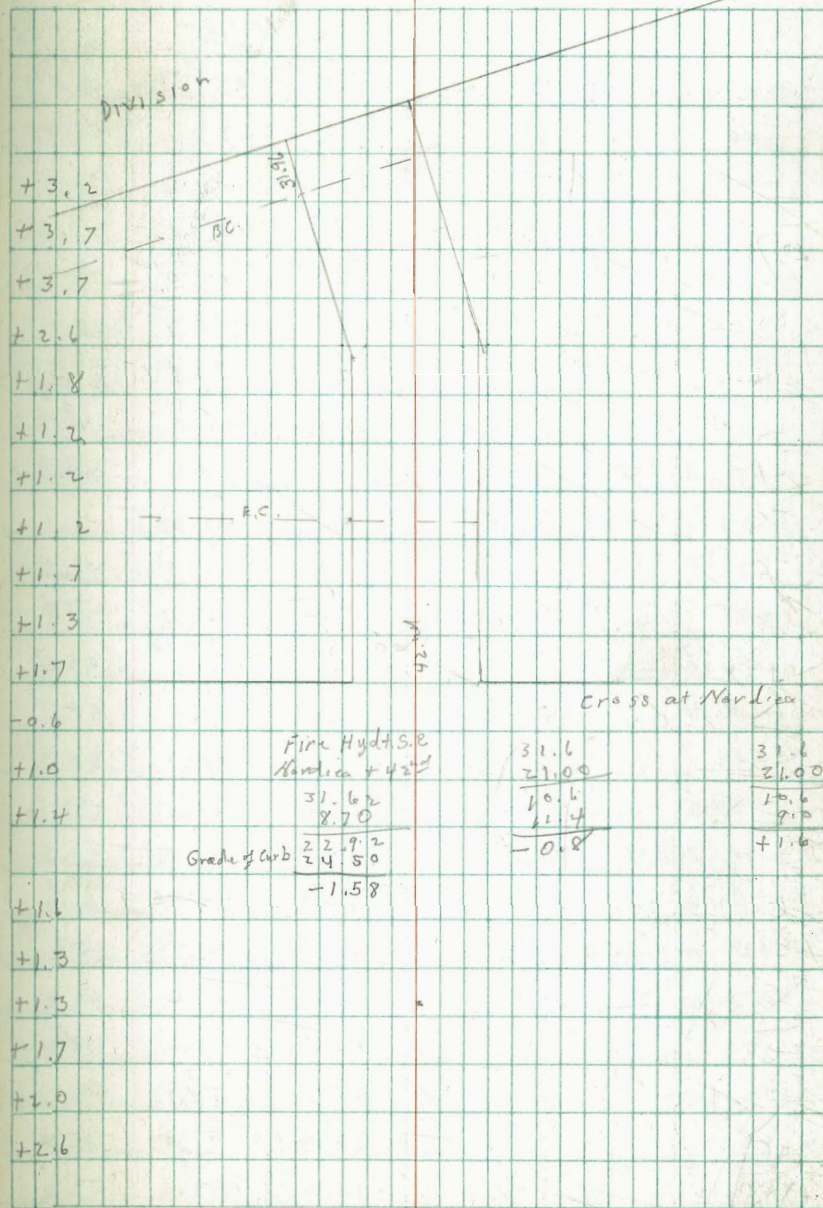
|                     |      |
|---------------------|------|
| 5+25                | 5.65 |
| 750                 | 5.69 |
| +75                 | 5.61 |
| 6+02                | 5.64 |
| +25                 | 5.56 |
| +82                 | 5.60 |
| +75                 | 5.53 |
| +90 S. Line Collier | 5.54 |

6-8-38 Replacement of B.M. S.W. 32<sup>nd</sup> + Maple

|                         |        |        |            |
|-------------------------|--------|--------|------------|
| Orig. B.M.              |        | 280.36 |            |
| B.M. Cross on Curb 6.18 | 387.04 | 280.90 | Lobenstein |
| Replaced B.M. B.P.      | 6.72   | 280.36 | Orig. Elev |

|     |      |       |
|-----|------|-------|
| 533 | 5.68 | +0.35 |
| 539 | 5.64 | +0.27 |
| 529 | 5.64 | +0.35 |
| 541 | 5.62 | +0.21 |
| 528 | 5.60 | +0.35 |
| 520 | 5.58 | +0.38 |
| 516 | 5.56 | +0.40 |
| 512 | 5.54 | +0.42 |

| B.M.                                 | 2.21  | 45.05 | 42.84 | N.N. 42 <sup>MA</sup><br>+ Division |                                |
|--------------------------------------|-------|-------|-------|-------------------------------------|--------------------------------|
| 0+00 = N. line Division              |       |       | 5.0   | 40.0                                | 37.6                           |
| 0+18 Brk.                            |       |       | 4.4   | 40.6                                | 37.4                           |
| 0+38 "                               |       |       | 5.0   | 40.0                                | 36.3                           |
| 0+58 "                               |       |       | 7.5   | 37.5                                | 33.8                           |
| T.P.                                 | 0.74  | 32.70 | 13.09 | 31.96                               |                                |
| 0+98 "                               |       |       | 4.1   | 28.6                                | 26.0                           |
| 1+58 "                               |       |       | 8.9   | 23.8                                | 22.0                           |
| 1+98 "                               |       |       | 10.0  | 22.7                                | 21.5                           |
| 2+48                                 |       |       | 10.1  | 22.6                                | 21.4                           |
| 2+98                                 |       |       | 10.2  | 22.5                                | 21.3                           |
| 3+48                                 |       |       | 9.8   | 22.9                                | 21.2                           |
| 3+98                                 |       |       | 10.3  | 22.4                                | 21.1                           |
| 4+48 Brk. S. line Nordica S. of Stub |       |       | 10.0  | 22.7                                | 21.0                           |
| T.P.                                 | 0.92  | 31.62 | 10.00 | 22.70                               |                                |
| 4+73 = 5. S. of 1/4 = 27' N. of Stub |       |       | 11.2  | 20.4                                | 21.0                           |
| 5+23                                 |       |       | 9.6   | 22.0                                | 21.0                           |
| 5+73                                 |       |       | 9.2   | 22.4                                | 21.0                           |
| 6+18 Brk.                            |       |       | 9.0   | 22.6                                | 21.0                           |
| 6+48                                 |       |       | 9.0   | 22.6                                | 21.3                           |
| 6+98 Brk.                            |       |       | 8.3   | 23.3                                | 22.0                           |
| 7+28                                 |       |       | 6.6   | 25.0                                | 23.3                           |
| 7+58 Brk. S. line Eta.               |       |       | 4.9   | 26.7                                | 24.6                           |
| 7+88 S. W. of Cross                  |       |       | 3.7   | 27.9                                | 25.3                           |
| T.P. Moh                             | 11.50 | 39.30 | 3.82  | 27.80                               | N. line eta<br>W. 13' line 41' |



39.30

|                              |       |       |      |       |       |
|------------------------------|-------|-------|------|-------|-------|
| 0+00 = N. Line Eta           |       |       | 11.5 | 27.8  | 26.5  |
| +50                          |       |       | 8.7  | 30.6  | 29.5  |
| 1+00                         |       |       | 5.7  | 33.6  | 32.5  |
| +50                          |       |       | 1.2  | 38.1  | 35.5  |
| 2+00                         | 12.35 | 51.33 | 0.32 | 38.98 | 38.5  |
| +60                          |       |       | 10.3 | 41.0  | 42.0  |
| +82                          |       |       | 8.3  | 43.0  | 43.3  |
| 3+00                         |       |       | 7.5  | 43.8  | 46.5  |
| 3+30 Cross                   |       |       | 1.8  | 49.5  | 46.7  |
| +76 Brk.                     |       |       | 1.6  | 49.7  | 47.0  |
| 00 = N. Line Epsilon 8. Curb |       |       | 0.8  | 50.5  | 50.08 |
| +15 Brk                      |       |       | 1.26 | 50.08 | 42.8  |
| +50                          |       |       | 6.5  | 44.8  | 44.7  |
| T.P                          | 12.20 | 61.82 | 4.6  | 46.7  | 47.5  |
| 0+96                         |       |       | 1.27 | 49.62 | 50.1  |
| 1+60 Brk                     |       |       | 11.7 | 50.1  | 50.5  |
| 1+96                         |       |       | 7.7  | 54.1  | 53.3  |
| 2+46 T.P.                    | 11.17 | 72.58 | 6.1  | 55.7  | 57.1  |
| 3+00 S. Line Delta           |       |       | 0.41 | 61.41 | 61.3  |
| T.P. 13. Hub                 | 4.79  | 74.34 | 2.6  | 70.0  | 69.55 |
| 3+30 + Cross 10.5 of 4       |       |       | 3.03 | 69.55 | 61.6  |
| 0+00 N. Line Delta           |       |       | 3.7  | 70.6  | 62.0  |
| 0+36                         |       |       | 8.7  | 65.6  | 58.8  |
| 0+72 Brk.                    |       |       | 12.7 | 61.6  | 55.6  |
| 0+96 "                       |       |       | 16.2 | 58.1  | 55.0  |
| 1+20 "                       |       |       | 16.6 | 57.7  | 56.0  |

| change | Grade |        |
|--------|-------|--------|
| +1.3 ✓ | 26.5  | +1.3 ✓ |
| +1.1 ✓ | 29.3  | +1.3 ✓ |
| +1.1 ✓ | 32.1  | +1.5 ✓ |
| +2.6   | 34.9  | +3.2   |
| +2.5   | 37.7  | +3.3   |
| +1.0   | 41.1  | +1.9 ✓ |
|        | 42.3  | +1.5 ✓ |
| +3.0 ✓ |       |        |
| +3.2 ✓ |       |        |
| +3.5 ✓ |       |        |
| +2.0 ✓ |       |        |
| +2.0   |       |        |
| +2.6   |       |        |
| +3.6   |       |        |
| +2.4   |       |        |
| +4.3   |       |        |
| +8.7   |       |        |
|        |       | 70.00  |
|        |       | 23.75  |
|        |       | 6.25   |

|           |               |      |       |      |       |      |
|-----------|---------------|------|-------|------|-------|------|
| 1+60      |               |      | 12.0  | 62.3 | 59.2  |      |
| 2+00      | Brk           |      | 8.7   | 65.6 | 62.4  |      |
| T.P. 2+60 | Brk           | 7.20 | 81.64 | 1.90 | 72.44 | 69.4 |
| 3+00      | S. Line Gamma |      | 4.0   | 77.6 | 74.0  |      |
| 3+30      | Cross         |      | 3.1   | 78.5 | 76.0  |      |
| 3+80      |               |      |       | 82.7 | 76.5  |      |

## Gamma St. Line

|                  |              |       |      |       |                 |
|------------------|--------------|-------|------|-------|-----------------|
| 0+00 = 108.9     | of Line 42nd |       |      |       | 76.0            |
| +53              | I            |       | 3.2  | 78.4  | 76.2            |
| 1+07             | <sup>5</sup> |       | 3.0  | 78.6  | 76.5            |
| 1+61             | <sup>2</sup> |       | 2.9  | 78.7  | 76.7            |
| 2+15             | Brk          |       | 3.0  | 78.6  | 77.0            |
| +35              | "            |       |      |       | 76.9            |
| +55              | X "          |       | 3.4  | 78.2  | 76.7            |
| +75              | "            |       |      |       | 76.2            |
| +95              | X "          |       | 4.4  | 77.2  | 75.5            |
| 3+15             | "            |       |      |       | 74.5            |
| 3+35             | X "          |       | 5.2  | 76.4  | 73.4            |
| 3+55             | "            |       |      |       | 72.2            |
| 3+75             | X "          |       | 6.8  | 74.8  | 71.5            |
| 4+25             | +            |       | 8.1  | 73.5  | 71.5            |
| I.P. S.W. 13 Mon | 5.25         | 83.15 | 3.74 | 77.90 | +2nd + Gamma    |
| B.M. Spk Pol     |              |       | 7.58 | 75.57 | S.W. 41 + Gamma |

## Fire Hydr. S. of Gamma

|                  |                     |                               |
|------------------|---------------------|-------------------------------|
| S. E. of S. Line | 42 <sup>nd</sup> St |                               |
|                  | 81.64               |                               |
|                  | 3.40                |                               |
| E.I.             | 78.24               | stab 5 <sup>th</sup> of Hydr. |
|                  | 78.72               |                               |
|                  | -0.48               |                               |

Fire Hydr. Alpha 9 H3<sup>rd</sup> St

|       |       |       |      |       |
|-------|-------|-------|------|-------|
|       | Pay   | Pay   | Pay  | Lat   |
| 5.54  | 6.21  | 7.31  | 6.21 | 89.56 |
| 90.25 | 89.54 | 88.46 | 44   | 90.00 |
| 95.77 | 95.77 |       |      | 5.77  |
|       |       |       |      | 4.43  |
|       |       |       |      | +0.84 |

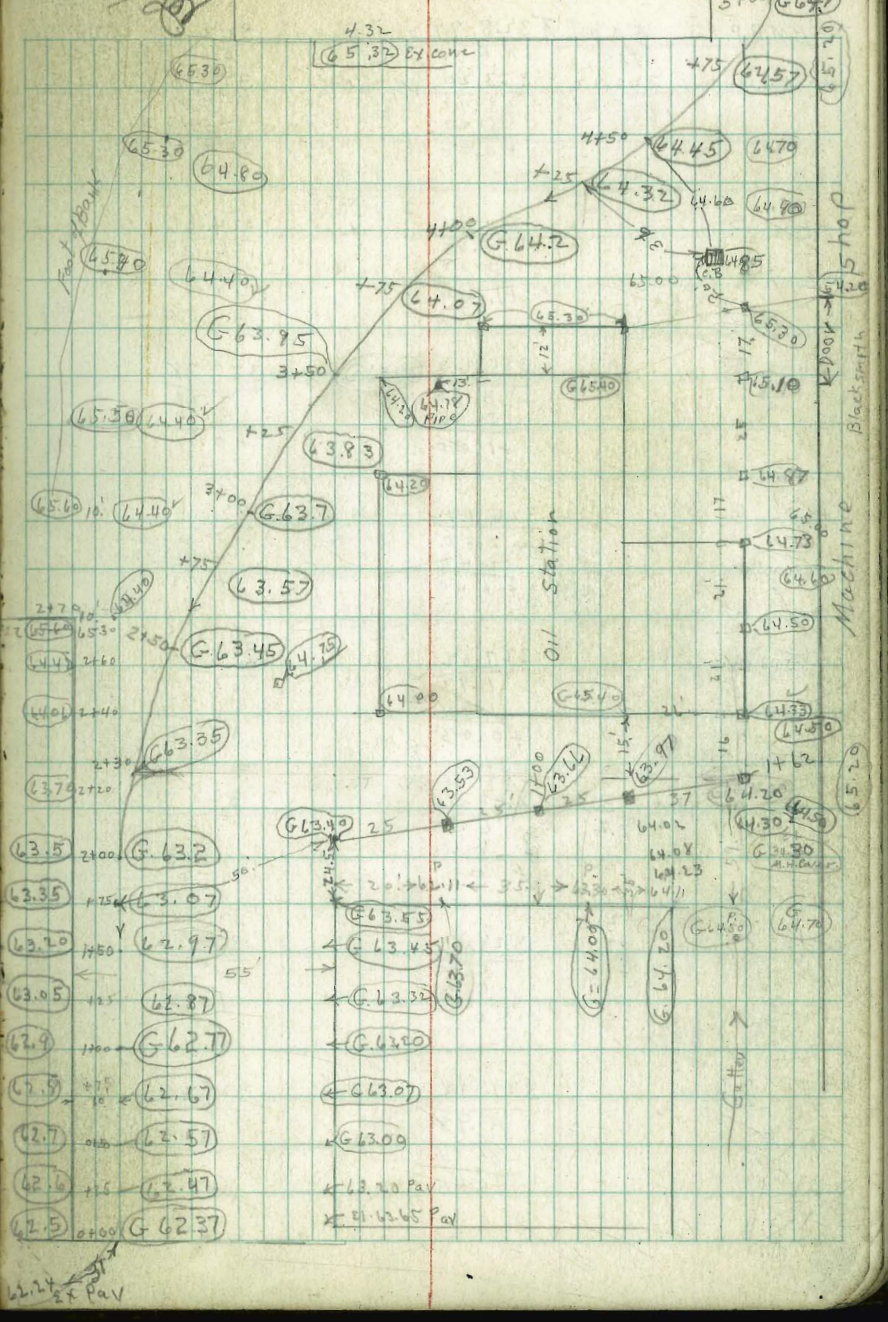
|        |      |
|--------|------|
| +3.1   |      |
| +3.2   |      |
| +3.0   |      |
| +3.6   |      |
| +2.5   |      |
| +6.2   |      |
| change |      |
| 76.0   | +2.4 |
| 76.2   | +2.4 |
| 76.3   | +2.4 |
| 76.2   | +2.4 |
| 75.8   | +2.4 |
| 74.8   | +2.4 |
| 73.4   | +3.0 |
| 71.5   | +3.3 |
| 71.0   | +2.5 |

5 -34 Grades on yard. 20<sup>th</sup> + 8.516  
 See page 40 + 43

|                      |               |                          |       |       |                                   |
|----------------------|---------------|--------------------------|-------|-------|-----------------------------------|
| B.M                  | 0.73          | 70.96                    |       | 70.23 | 5.8. 20 <sup>th</sup><br>+ B. 516 |
| T.P                  | 4.74          | 68.12                    | 7.58  | 63.38 | 64.35<br>4.12                     |
| Grades E. side of P. | 4.74          | 67.09                    | 5.81  | 62.31 | 69.47                             |
| Garage               |               | Grades in<br>side office |       |       |                                   |
| 770.09               |               |                          |       |       |                                   |
| 770 x 100            | 65.88<br>2.87 | 63.35                    | 63.45 | 63.57 | 63.70                             |
| 160                  | 64.42<br>4.05 | 5.12                     | 5.02  | 4.90  | 4.77                              |
| 270                  | 64.06<br>4.41 | 5.00                     | 5.00  | 5.00  | 4.64                              |
| 2720                 | 63.70<br>3.87 | 63.35                    | 63.45 | 63.57 | 63.95                             |
| 2700                 | 63.50<br>3.84 | 63.35                    | 63.45 | 63.57 | 63.95                             |
| 775                  | 63.35<br>5.12 | 63.07                    | 63.24 | 63.40 | 63.53                             |
| 150                  | 63.20<br>4.12 | 63.35                    | 63.35 | 63.35 | 63.53                             |
| 121                  | 63.05<br>4.12 | 63.66                    | 63.80 | 64.00 | 64.20                             |
| 1450                 | 62.90<br>4.12 | 62.90                    | 62.90 | 62.90 | 62.90                             |
| 9775                 | 62.57<br>4.12 | 64.40                    | 64.60 | 64.90 | 65.30                             |
| 0450                 | 62.45<br>4.12 | 62.45                    | 62.57 | 62.70 | 62.82                             |
| 0425                 | 62.32<br>4.12 | 62.32                    | 62.45 | 62.57 | 62.70                             |
| 0410 S End Car       | 62.25<br>4.12 | 62.25                    | 62.32 | 62.45 | 62.57                             |
| 0400                 | 62.20<br>4.12 | 62.20                    | 62.32 | 62.45 | 62.57                             |
| 5.25                 |               | 62.20                    | 62.32 | 62.45 | 62.57                             |
| 124                  | 61.95         | 62.57                    | 62.47 | 62.37 | 62.24                             |
| 1540                 | 65.10         | 4.78                     | 5.61  | 5.92  | 5.23                              |
| 6958                 | 4.48          | 63.97                    | 63.97 | 63.97 | 63.97                             |
|                      | 64.33         | 64.50                    | 64.67 | 64.80 | 64.80                             |
|                      | 5.25          | 5.09                     | 4.91  | 4.78  | 4.78                              |

Indexed Carpenter Shop.

20



5/16/38

Grades Alley Blk. 48. Park Villas  
Upas. to Myrtle bet. 32<sup>nd</sup> + Bancroft.

| BM.B.P.              | 5.09<br>w. cl. | 328.99<br>w. line                       | 323.90<br>e. line                  | S.W. 32 <sup>nd</sup><br>w. Upas.<br>e. cl. |
|----------------------|----------------|---|------------------------------------|---|
| 0+00 = N. Line Upas. | 323.72<br>5.27 | 323.20<br>5.79<br>5.27<br>+0.52         | OK 323.10<br>5.89<br>5.03<br>+0.46 | 323.56<br>5.43                              |
| 0+20 B               |                | 324.64<br>4.35<br>3.35<br>+1.00         | OK 324.66<br>4.33<br>3.17<br>+1.16 |   |
| 0+40 B               |                | 325.63<br>3.36<br>2.36<br>+1.00         | OK 325.78<br>3.21<br>2.34<br>+0.97 |   |
| 0+60 B               |                | 326.19<br>2.80<br>2.40<br>+0.40         | OK 326.39<br>2.60<br>2.22<br>+0.32 |   |
| 1+10                 |                | 327.62<br>1.97<br>1.94<br>+0.03         | 327.22<br>1.77<br>1.72<br>+0.05    |   |
| 1+60 Gr. Vard        | w-2.<br>327.2  | 334.46<br>327.84<br>6.62<br>6.62<br>0.0 | 328.04<br>0.95<br>1.33<br>-0.34    |   |
| 2+10 Gr. Vard        | w-2.<br>328.1  | 328.46<br>5.80<br>5.80<br>0.0           | 328.86<br>5.60<br>5.60<br>0.0      |   |
| 2+60 Brk             |                | 329.48<br>4.98<br>3.98<br>+1.00         | OK 329.68<br>4.78<br>4.46<br>+0.32 |   |

## Indexed

w. line  
334.46

e. line

e. cl.

21

| 2+80 B                   | 329.72                          | OK 329.90                       |
|--------------------------|---------------------------------|---------------------------------|
|                          | 4.74<br>4.34<br>+0.40           | 4.56<br>4.08<br>+0.98           |
| S. Line Myrtle<br>3+00   | w. cl.<br>329.93                | OK 329.90<br>4.56               |
|                          | 329.84<br>4.62                  | 329.95                          |
| 328.99<br>1.63           |                                 | 4.1<br>26.5<br>26.5<br>3        |
| 327.36<br>7.10<br>334.46 |                                 |                                 |
|                          | Grade Change<br>West.<br>332.80 | East.<br>326.95                 |
| 1+10                     | 326.70<br>6.10<br>5.75<br>+0.35 | 5.25<br>5.55<br>+0.30           |
| 1+40 Brk                 | 227.00<br>5.80<br>4.80<br>+1.00 | 227.30<br>5.50<br>4.50<br>+1.00 |
| 1+60                     | 227.40<br>5.40<br>4.90<br>+0.50 | 227.65<br>5.15<br>5.15<br>0.0   |
| 2+10                     | 228.45<br>4.35<br>4.15<br>+0.20 | 228.70<br>4.10<br>3.95<br>+0.15 |



6-1-38.

36<sup>th</sup> St. Sewer Grades.  
L. St. to Gillette.

|                                   |       |       |       |                             |
|-----------------------------------|-------|-------|-------|-----------------------------|
| B.M. BP. N. Rail Bridge           | 9.89  | 39.46 | 29.57 | 34 <sup>th</sup> + Imperial |
| T.P.                              | 7.24  | 45.11 | 1.59  | 37.87                       |
|                                   | 3.26  | 47.39 | 0.98  | 44.13                       |
| 0+00 Ex M.H. F.L.                 |       | 14.27 | 33.12 | 33.16                       |
| " " " Connection                  |       | 7.42  | 39.97 | 33.50                       |
| 0+27.5                            |       | 9.02  | 38.37 | 33.87                       |
| 0+75 s. End C.I. Pipe             |       | 8.76  | 38.63 | 34.25                       |
| 1+11 " " " "                      |       | 9.07  | 38.32 | 34.61                       |
| 1+48                              |       | 9.37  | 38.02 | 34.98                       |
| 1+85 M.H. #1                      |       | 4.90  | 42.49 | 35.35                       |
| T.P.                              | 13.09 | 60.03 | 0.45  | 46.94                       |
| 2+37.5                            |       | 6.16  | 53.87 | 43.75                       |
| T.P.                              | 12.00 | 71.47 | 0.56  | 59.47                       |
| 2+90.0 Brk                        |       | 8.76  | 62.71 | 52.15                       |
| 3+30                              |       | 6.30  | 65.17 | 54.35                       |
| 3+80 M.H. #2 & Tom King           |       | 3.71  | 67.76 | 57.10                       |
| " " " " (Tom King St. Cross Line) |       | 3.71  | 67.76 | 58.50                       |
| 4+30                              |       | 2.15  | 69.32 | 59.85                       |
| T.P.                              | 13.05 | 84.22 | 0.30  | 71.17                       |
| 4+80                              |       | 12.22 | 72.00 | 62.60                       |
| 5+30                              |       | 9.22  | 75.00 | 65.35                       |
| 5+80                              |       | 6.34  | 77.88 | 68.10                       |
| 6+30                              |       | 3.42  | 80.80 | 70.85                       |
| 6+80 T.P.                         | 9.04  | 92.74 | 0.82  | 83.70                       |
| 7+20                              |       | 6.74  | 86.00 | 75.80                       |
| 7+60 M.H. #3 Δ 90° 1/4 & L. St.   |       | 4.74  | 87.96 | 78.00                       |
| " " " " L. St. Line               |       | 4.78  | 87.96 | 79.50                       |

Indexed

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|   |  |
|---|--|
| 4 Gillette & 36 <sup>th</sup> St                |  |
| + 6.47 from Rim to FL 36 <sup>th</sup> St. Line |  |
| + 4.50  |  |
| + 4.38  |  |
| + 3.71  |  |
| + 3.04  |  |
| + 7.14  |  |
| + 10.12   |  |
| + 10.56   |  |
| + 10.82   |  |
| + 10.66   |  |
| + 9.26  |  |
| + 9.47  |  |
| + 9.40  |  |
| + 9.65  |  |
| + 9.78  |  |
| + 9.95  |  |
| + 10.10   |  |
| + 10.20   |  |
| + 9.96  |  |
| + 8.46  |  |

L. St. Line  
92.74

|           |      |       |       |
|-----------|------|-------|-------|
| 8+10      | 5.16 | 87.58 | 80.00 |
| 8+60      | 5.40 | 87.34 | 80.50 |
| 9+10 D.F. | 5.80 | 86.94 | 81.00 |

Tomkins St. Line  
71.47

|                                 |      |       |       |
|---------------------------------|------|-------|-------|
| 0+00 D.E.W. of 36 <sup>th</sup> | 4.62 | 66.85 | 60.75 |
| 0+50                            | 4.47 | 67.00 | 60.00 |
| 1+00                            | 4.10 | 67.37 | 59.25 |
| 1+50 M.H. $\frac{2}{2}$         | 3.71 | 67.76 | 58.50 |
| 1+95                            | 3.92 | 67.55 | 60.25 |
| 2+40 D.F.E. of 36 <sup>th</sup> | 3.03 | 68.44 | 62.00 |

7-11-38 Tomkins + 35<sup>th</sup> St.

|  |           |       |       |
|--|-----------|-------|-------|
| Stub   | 12.17     | 79.02 | 66.85 |
| 0+00 D.E. Tomkins st. Line (above)   |           | 66.85 | 60.75 |
| 0+50 W   |           | 12.42 | 66.60 |
| 1+00 W   |           | 12.54 | 66.48 |
| 1+30 W = $\left. \begin{array}{l} \text{E. Prt. det. st.} \\ \text{M.H. } \Delta 90^{\circ} \text{ RT} \end{array} \right\}$ |           | 12.35 | 66.67 |
| 1+70 B.K.  |           | 11.24 | 67.78 |
| 2+20   |           | 6.87  | 72.15 |
| 2+70   |           | 2.01  | 77.01 |
| 3+20 B.K.  | T.P. 7.99 | 86.82 | 80.19 |
| 3+72 <sup>5</sup>  |           | 6.22  | 78.83 |
| 4+25 D.F.  |           | 3.98  | 80.60 |
|  |           | 2.88  | 82.84 |
|  |           |       | 76.57 |
|  |           |       | 78.15 |

+7.58 ✓

+6.84 ✓

+5.74 ✓

+6.10 ✓

+7.00 ✓

+8.12 ✓

+9.26 ✓

+7.30 ✓

+6.44 ✓

+6.10

+5.35 ✓

+4.73 ✓

+4.62 ✓

+4.78 ✓

+5.15 ✓

+6.01 ✓

+5.60 ✓

+6.27 ✓

+5.79 ✓

6-27-38 Grades. Alley BIK. 50 City #13  
Wightman to Whiy Bet. 42nd + Marlborough

|       |                                 |                                |  |   |
|-------|---------------------------------|--------------------------------|--|---|
| 4+40  | 53.23<br>5.43<br>5.67<br>-0.04  | Reset.<br>57.62                | 53.43<br>5.43<br>5.32<br>+0.11                                       | BM BPA W<br>Wightman<br>Marlborough<br>347.03<br>7.23 |
| 4+00  | 53.11<br>5.75<br>4.78<br>+1.00  | 53.31<br>4.31<br>4.08<br>+0.23 | 53.31<br>5.55<br>5.39<br>+0.16                                       | 354.26<br>0.88<br>353.38<br>5.48<br>358.86<br>5.37    |
| 3+60  | 52.99<br>5.87<br>5.40<br>+0.47  | 53.19<br>5.43<br>3.48<br>+0.75 | 53.19<br>5.67<br>4.56<br>+1.11                                       | 353.49<br>5.46<br>359.35                              |
| 3+20  | 52.87<br>5.99<br>3.99<br>+2.00  |                                | 53.07<br>5.79<br>4.62<br>+1.17                                       |   |
| 2+80  | 52.75<br>6.11<br>4.11<br>+2.00  |                                | 52.95<br>5.91<br>2.91<br>+3.00                                       |   |
| 2+40  | 52.63<br>6.23<br>4.23<br>+2.00  |                                | 52.83<br>6.03<br>4.85<br>+1.18                                       |   |
| 2+00  | 52.51<br>6.35<br>4.35<br>+2.00  |                                | 52.71<br>6.15<br>4.15<br>+2.00                                       |   |
| 1+60  | 52.39<br>6.47<br>4.47<br>+2.00  |                                | 52.59<br>6.27<br>4.27<br>+2.00                                       |   |
| 1+20  | 52.27<br>6.59<br>4.59<br>+2.00  |                                | 52.47<br>6.37<br>4.37<br>+2.00                                       |   |
| 0+80B | 352.15<br>2.11<br>0.11<br>+2.00 | Reset.<br>354.26               | 352.35<br>1.97<br>+0.09<br>+2.00                                     |   |
| 0+60B | 351.97<br>3.43<br>2.81<br>+0.62 | Reset.<br>355.40               | 351.97<br>2.29<br>1.65<br>0.64<br>+2.00                              |   |
| 0+40B | 351.53<br>2.73<br>1.65<br>+1.08 |                                | 351.73<br>2.53<br>1.74<br>+0.79                                      |   |
| 0+20B | 350.84<br>3.42<br>2.02<br>+1.40 | Reset.                         | 351.04<br>3.02<br>1.95<br>+1.27                                      |   |
| 0+00  | 349.96<br>4.30                  |                                | 349.90<br>5.50<br>350.10<br>5.30<br>350.10<br>4.16<br>350.27<br>3.99 |   |

Indexed  
Alley  
355.40 W. E.

|                   |                  |                                 |                                 |                              |
|-------------------|------------------|---------------------------------|---------------------------------|------------------------------|
| 349.90            | 10'              | 10'                             | 350.10                          | Mline<br>Wightman            |
| el. ch.<br>347.52 | el. ch.<br>49.70 | 49.25<br>6.54                   | 49.65<br>5.75                   | 50.16<br>N. ch. side         |
| 8.50<br>el 346.90 | el 49.10<br>6.30 |                                 | 49.50<br>5.90                   | el. ch. side<br>351.88 el G. |
|                   | 49.28            |                                 | 359.35                          |                              |
| 5+99              | 5.99             | 354.98<br>4.37                  | 354.96<br>4.39                  |                              |
| 5+99              | 5.99             | 354.80<br>4.55                  | 355.00<br>4.35                  |                              |
| 5+60 B            |                  | 354.14<br>5.21<br>3.21<br>+2.00 | 354.34<br>5.01<br>3.01<br>+2.00 |                              |
| 5+40 B            |                  | 353.84<br>5.51<br>4.73<br>+0.78 | 354.04<br>5.31<br>4.31<br>+3.00 |                              |
| 5+20 B            |                  | 353.61<br>5.74<br>6.14<br>-0.40 | 353.81<br>5.54<br>4.94<br>+0.62 |                              |
| 5+00 B            |                  | 353.44<br>5.91<br>6.08<br>-0.17 | 353.64<br>5.71<br>5.39<br>+0.32 |                              |
| 4+80B             |                  | 353.35<br>6.00<br>6.31<br>-0.31 | 353.55<br>5.31<br>4.31<br>+1.00 | 358.16                       |

7-6-38

Grades Alley B/K. 166. U.H.

Indexed

|                        | W                               | C                               | RM SE<br>Utah + Lincoln          |
|------------------------|---------------------------------|---------------------------------|----------------------------------|
| 4+20B                  | 368.10<br>4.90<br>3.90<br>+1.00 | 368.10<br>4.90<br>3.90<br>+1.00 | 367.94<br>7.55<br>370.49<br>3.72 |
| 4+00B                  | 367.83<br>5.17<br>3.17<br>+2.00 | 367.83<br>5.17<br>4.83<br>+0.34 | 366.77<br>5.43<br>372.20<br>4.53 |
| 3+80B                  | 367.63<br>4.57<br>3.57<br>+1.00 | 367.63<br>4.57<br>2.57<br>+2.00 | 367.67<br>5.33<br>373.00<br>4.11 |
| 3+30                   | 67.22<br>4.98<br>3.98<br>+1.00  | 67.22<br>4.98<br>4.48<br>+0.10  | 368.89<br>5.76<br>374.65         |
| 2+80                   | 66.80<br>5.40<br>3.40<br>+2.00  | 66.80<br>5.40<br>4.60<br>+0.80  |                                  |
| 2+30                   | 66.38<br>5.92<br>5.48<br>+0.34  | 66.38<br>4.11<br>3.78<br>+0.33  |                                  |
| 1+80                   | 65.97<br>4.52<br>3.52<br>+1.00  | 65.97<br>4.52<br>3.98<br>+0.54  |                                  |
| 1+30                   | 65.55<br>4.94<br>2.94<br>+2.00  | 65.55<br>4.94<br>4.56<br>+0.38  |                                  |
| 0+80B                  | 365.13<br>5.36<br>4.70<br>+0.66 | 365.13<br>5.36<br>5.04<br>+0.32 |                                  |
| 0+60B                  | 364.93<br>5.56<br>4.56<br>+1.00 | 364.92<br>5.57<br>5.19<br>+0.58 |                                  |
| 0+40B                  | 364.66<br>5.83<br>3.83<br>+2.00 | 364.59<br>5.90<br>3.90<br>+2.00 |                                  |
| 0+20B                  | 364.30<br>6.19<br>4.19<br>+2.00 | 364.17<br>6.32<br>4.32<br>+2.00 |                                  |
| 0+00 = N. Line Lincoln | 363.95<br>6.54<br>6.50          | 363.65<br>6.84<br>6.91          | 363.87<br>6.67<br>6.64           |

|                        | W                               | E                               |
|------------------------|---------------------------------|---------------------------------|
| s. Line Polk }<br>6+00 | 368.75<br>5.90<br>5.89          | 368.63<br>6.02<br>6.02          |
| 5+80B                  | 369.02<br>5.43<br>4.45<br>+0.78 | 367.06<br>5.59<br>4.65<br>+0.74 |
| 5+60B                  | 369.34<br>5.31<br>5.09<br>+0.22 | 369.34<br>5.31<br>5.00<br>+0.31 |
| 5+40B                  | 369.48<br>5.17<br>4.17<br>+1.00 | 369.48<br>5.17<br>4.94<br>+0.23 |
| 5+20B                  | 369.43<br>5.22<br>4.22<br>+1.00 | 369.43<br>5.22<br>5.05<br>+0.17 |
| 5+00B                  | 369.26<br>5.89<br>3.39<br>+2.00 | 369.26<br>5.39<br>4.39<br>+1.00 |
| 4+80B                  | 369.00<br>5.65<br>4.65<br>+1.00 | 369.00<br>5.65<br>5.07<br>+0.58 |
| 4+50                   | 368.55<br>4.45<br>2.02<br>+2.43 | 368.55<br>6.10<br>4.10<br>+2.00 |

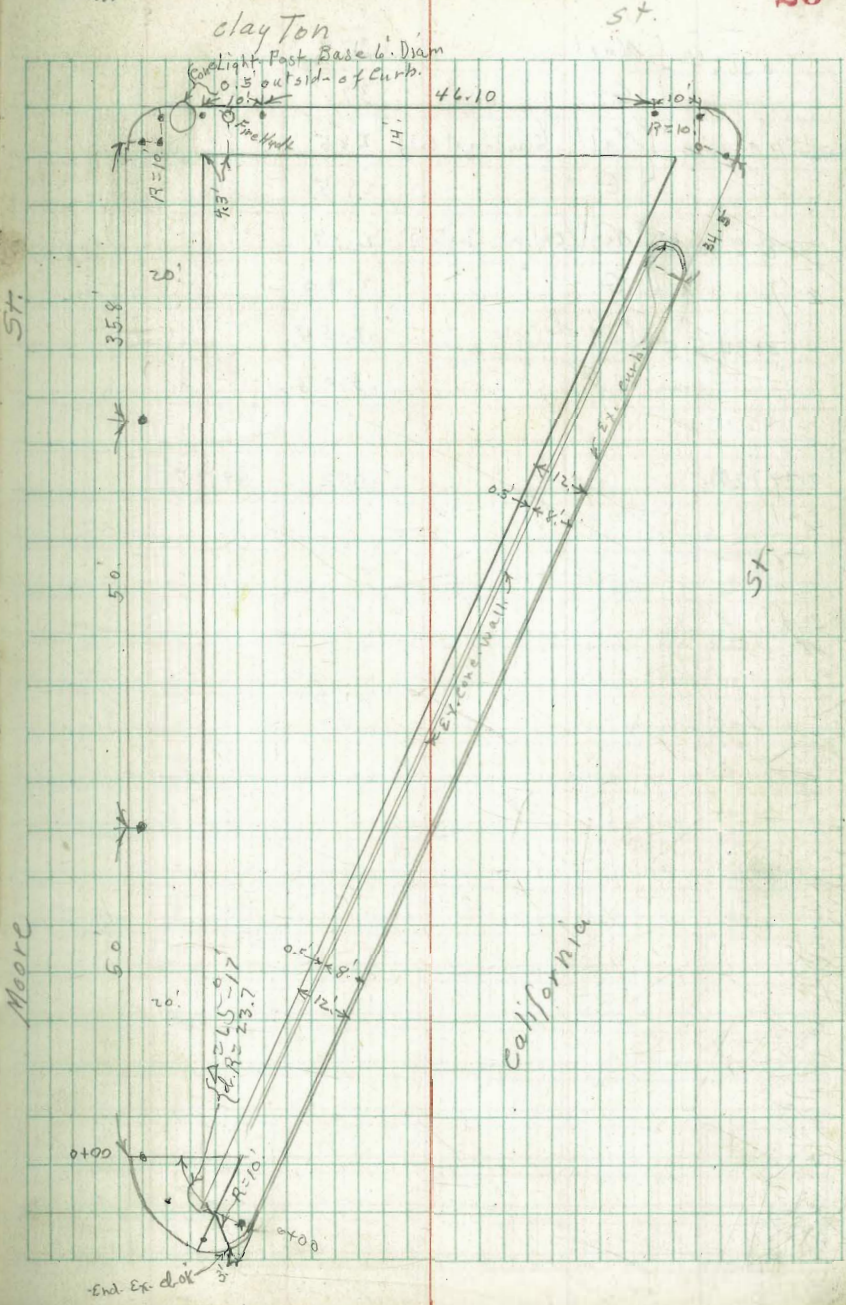
7-13-38

Nails in Pav. on Clayton + Moore for Curb  
Nails 2' offset

indexed  
C.S.K.

B.M. BP 9.86 59.63 49.77 w. side Moore at Dog Hosp

|                          |                                     |       |       |
|--------------------------|-------------------------------------|-------|-------|
|                          | P.C. Ex. Curb (Calif. St. at Moore) | 4.61  |       |
| 0+00                     | G                                   | 5.11  |       |
| End. Ex. Curb            | G                                   | 4.70  |       |
|                          | G                                   | 5.57  |       |
| P.C.C.                   | G                                   | 5.25  |       |
| p.c.c.                   | Nail                                | 5.25  |       |
| ctr                      | Nail                                | 5.93  |       |
|                          | G                                   | 6.02  |       |
| 0+00 E.C.                | Nail Moore at Calif                 | 6.83  |       |
|                          | G                                   | 6.97  |       |
| 0+50 N                   | Nail                                | 8.40  |       |
|                          | G                                   | 8.63  |       |
| 1+00 N                   | Nail                                | 9.64  |       |
|                          | G                                   | 9.98  |       |
| 1+31 1/2 S. line Clayton | Nail                                | 10.82 |       |
| 1+35 1/2 P.C. 10' R.     | G                                   | 10.94 |       |
| 0+00 E.C.                | Nail                                | 10.60 |       |
|                          | G                                   | 10.63 |       |
| 0+10' E. = E. line Moore | x Light Base                        | 9.00  |       |
|                          | G                                   | 9.89  |       |
| T.P.                     |                                     | 10.55 | 59.53 |
|                          |                                     | 10.65 | 48.98 |
| 0+20 E                   | Nail                                | 8.81  |       |
|                          | G                                   | 8.86  |       |



59.53

|            |   |                        |      |  |
|------------|---|------------------------|------|--|
| 0466       | } | Nail                   | 3.79 |  |
|            |   | G                      | 3.78 |  |
| 0476       | } | Nail (clayton at cal)  | 2.85 |  |
| B.S. 10' R |   | G                      | 2.45 |  |
| E.C. 10' R | } | Nail (cal. at clayton) | 2.39 |  |
|            |   | G                      | 2.40 |  |
| 0434       | } | cr. d                  | 2.54 |  |
| S          |   | G                      | 3.03 |  |

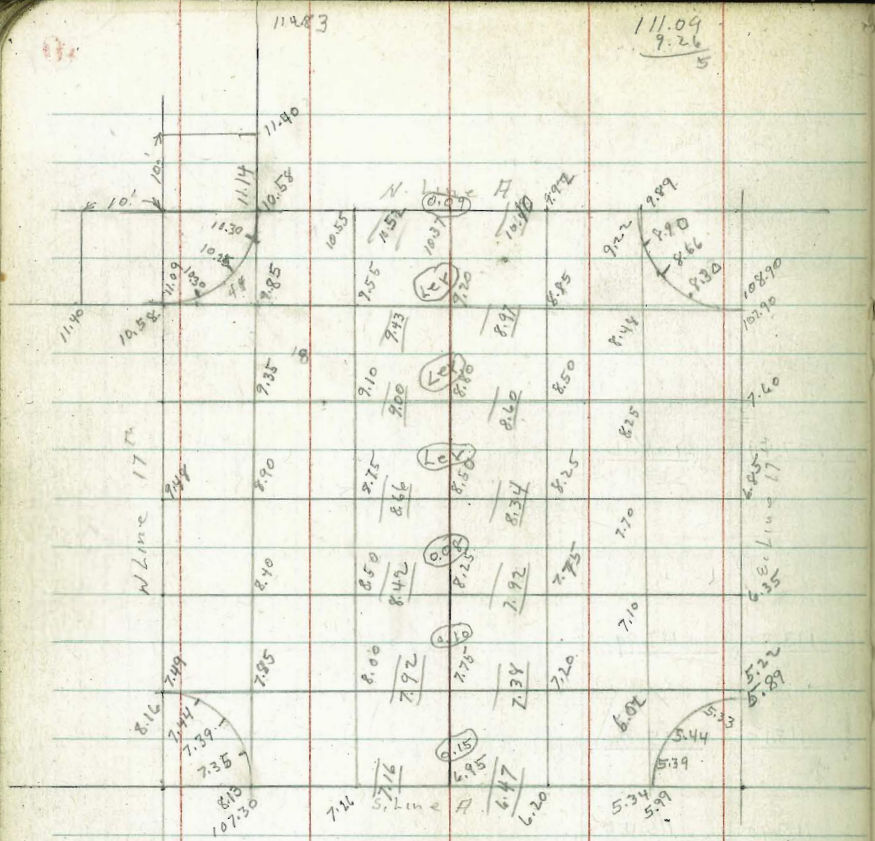
|           |  |      |       |
|-----------|--|------|-------|
| orig B.M. |  | 9.72 | 49.77 |
|-----------|--|------|-------|

27









11.09  
 9.26  
 120.35  
 10.30 10.25 10.58 5.22 5.33 5.44 5.39 5.34  
 10.85 10.10 9.77 6.12 6.01 5.90 5.95 6.00

26.35  
 S.W  
 7.30 7.35 7.39 7.44 7.49  
 13.05 13.00 12.96 12.91 12.86  
 W. 14  
 7.16 7.92 8.42 8.66 9.00 9.43 10.49

E. 14  
 6.47 7.38 7.92 8.34 8.60 8.97 10.07 N.E. Pt

109.89  
 6.37  
 6.02  
 57  
 119.05  
 N.E. Return of Cuts  
 d. end 109.90 107.90 108.30 108.66 108.90 109.22 109.89  
 10.15 11.15 10.75 10.39 10.15 9.83 9.76  
 9.89 9.09 109.40

111.09  
 2.33  
 113.42  
 W. ch. Line 17  
 N. ch 109.85 109.35 108.90 108.40 107.85  
 3.57 4.07 4.52 5.02 5.57  
 S. ch 109.15 7.13 7.03 4.00 108.90 7.38

E. ch. Line 17  
 N. ch 108.48 108.25 107.70 107.10 106.82  
 4.94 5.17 5.72 6.32 7.40  
 S. ch

E. Line 17  
 107.90 107.62 106.85 106.35 105.22  
 5.52 5.82 6.57 7.07 8.20

B. Line

|        |           |                      |        |        |                       |
|--------|-----------|----------------------|--------|--------|-----------------------|
|        | B.M. stub | 0.79                 | 37.73  | 36.94  | P. 37.<br>0100 D Line |
| 11.30% | 0+97      | E. Line Rosecrans St | 6.70   | 31.03  | 22.60                 |
|        | 1+44.7    | M.H. 4               | 5.34   | 32.39  | 27.99                 |
|        | 2+00      |                      | 4.11   | 33.62  | 29.20                 |
|        | 2+50      |                      | 2.28   | 35.45  | 30.30                 |
|        | 3+00      |                      |        | 36.62  | 31.40                 |
| 22.06% | 3+24      | M.H. 5 # 0100 "6"    | 0.79   | 36.94  | 31.93                 |
|        | T.P.      | 12.61                | 49.55  | 0.79   | 36.94                 |
|        | 0+50      |                      | 1.88   | 47.67  | 40.43                 |
|        | T.P.      | 12.82                | 62.10  | 0.27   | 49.28                 |
| 17.0%  | 1+00      |                      | 6.64   | 55.46  | 48.93                 |
|        | T.P.      | 12.80                | 74.80  | 0.10   | 62.00                 |
|        | 1+50      |                      | 11.52  | 63.28  | 57.43                 |
|        | 2+00      |                      | 3.98   | 70.82  | 65.93                 |
|        | 2+35      | M.H. 6               | 0.10   | 74.70  | 71.98                 |
|        |           | 12.94                | 87.64  | 10.88  | 76.76                 |
|        | 3+00      | B.R.K.               | 5.03   | 82.61  | 78.42                 |
|        | T.P.      | 13.66                | 101.07 | 0.23   | 87.41                 |
|        | 3+32      | DE                   | 0.31   | 100.76 | 96.02                 |

"D" Line

|       |      |               |       |       |       |
|-------|------|---------------|-------|-------|-------|
|       | 0+00 | M.H. 6        |       | 76.76 | 71.98 |
| 21.5% | 0+27 | M. Lin. Allen | 13.45 | 87.62 | 77.78 |
|       | 0+60 | B.R.K.        | 6.85  | 94.22 | 85.00 |
|       | 1+15 |               | 6.88  | 94.20 | 88.00 |
| 55%   | 1+65 |               | 6.67  | 94.40 | 90.75 |
|       | 2+15 |               | 1.30  | 99.77 | 93.50 |

Indexed  
98

|          |
|----------|
| + 8.43 ✓ |
| + 4.40 ✓ |
| + 4.42 ✓ |
| + 5.15 ✓ |
| + 5.32 ✓ |
| + 5.01 ✓ |
| + 7.24 ✓ |
| + 6.53 ✓ |
| + 5.85 ✓ |
| + 4.89 ✓ |
| + 4.78 ✓ |
| + 4.19 ✓ |
| + 4.74 ✓ |
| + 4.78 ✓ |
| + 9.84 ✓ |
| + 9.22 ✓ |
| + 6.20 ✓ |
| + 3.65 ✓ |
| + 6.20 ✓ |

"A" Line

B.M. Hub 4+55.52

12.30

24.72

12.42

5+38<sup>06</sup> M.H. 2

11.75

12.77

11.64

+ 1.33 ✓

5+88<sup>06</sup>

8.68

16.04

11.24

+ 4.20 ✓

6+38<sup>06</sup>

6.35

18.37

12.04

+ 6.33 ✓

6+88<sup>06</sup>

5.50

19.22

12.24

+ 6.98 ✓

7+38<sup>06</sup>

4.84

19.88

12.44

+ 7.44 ✓

7+88<sup>06</sup>

T.P. 10.18

30.79

4.11

20.61

12.64

+ 7.97 ✓

8+15<sup>27</sup> M.H. 3

8.97

21.82

12.75

+ 9.07 ✓

8+65

10.97

19.82

12.95

+ 6.87 ✓

9+15

10.37

20.42

13.15

+ 7.27 ✓

9+65

9.71

21.08

13.35

+ 7.73 ✓

10+15

8.71

22.04

13.55

+ 8.53 ✓

10+47.5 DE

4.45

26.34

13.68

+ 12.66 ✓

11

ground at. 4

7.4

23.4

"B" Line

24.72

0+00 = M.H. 2

11.75

12.77

11.64

+ 1.33 ✓

0+50

6.34

24.38

17.29

+ 7.09 ✓

0+97

Page 31

22.60

A table with 4 columns and 20 rows. The columns are defined by red vertical lines, and the rows are defined by blue horizontal lines. The table is currently empty.

A table with 10 columns and 20 rows. The columns are defined by green vertical lines, and the rows are defined by green horizontal lines. The table is currently empty.



B.M. B.P. d. S.E. Cor Market. & Pacific U.S. Coast. & Geodetic

Datum Harbor Engineering Dep. B.M. E1 11.905

B.M. 4.17 16.07 (ealif) 11.90

B.M. SPK. Guy Pole S.E. Cor Market & Pacific 5.26 10.81

B.M. Mon. N. End. 20' Property

Radius, S.W. Cor. Police Property 2.60 13.47

B.M. SPIKE in Elec. Pole W. d.

Kettner S. of Garage. 3.29 12.78

I.P. 5.37 18.84 2.60 13.47

B.M. Top. d. S. Line Police Property 4.13 14.71  
60' W. of S. Line Pacific Blvd

W. d. 4.10 14.74

B.M. B.P. 4.94 16.84 11.90 S. B. Market & Pacific

B.M. Top. Hydt N. d. Market 2.82 14.02

U.S. C. & C. B.M. 80' E of Pacific 5.70 11.14

9-25-34 Curb. Grades 10' W. of E. Line of Pacific S. of Market.

| Station             | Ch. Grade | 11.905 | U.S. Coast. & Geodetic B.M. (N. d. Market. 80' E. of Pacific) |
|---------------------|-----------|--------|---|
| S. d. Line Market   | 11.87     | 5.115  | 5.87  |
| 00 = S. Line Market | 11.96     | 117.02 | 17.75   |
| 1705                | 12.56     | 3.11   | 8.10 - 8.23 - 8.27  |
| 1736                | 12.74     | 13.91  | - 2.88 - 2.87 - 2.88  |
| 2771                | 13.52     | 4.55   | 10.88 17.11 17.15   |
| 3724                | 13.82     | 11.246 | Take your pick  |
| 3757                | 14.01     | 7.36   |   |
| 3787.21             | 14.45     | 9.58   |   |
| S. End.             | 14.20     |        |   |
| 13.50               |           |        |   |
| 3.44                |           |        |   |
| 17.18 X             |           |        |   |
| 2450                | 3700      | 3.50   |   |
| 1450                | 13.75     | 14.00  |   |
| 3.68                | 3.481     | 3.18   |   |
| 13.26               |           |        |   |
| 3.13                |           |        |   |
| 3.73                |           |        |   |
| -0.60               |           |        |   |
| 13+98               |           |        |   |
| 14.24               |           |        |   |
| 2.94                |           |        |   |
| ch. W. End Ret.     |           |        |   |
| B.M. 9.70           |           |        |   |
| 4.94                |           |        |   |
| 114.64              |           |        |   |
| Grade S. End Ret.   |           |        |   |
| 10.00               |           |        |   |
| 4.44                |           |        |   |
| 0+00 = S. Line      |           |        |   |

26<sup>th</sup> St. Finish  
1-17-39

Lt.

Rt.

See Page 54

|                      |                   |                                  |
|----------------------|-------------------|----------------------------------|
| 4+00                 | 178.75<br>7.29 ✓  | 178.08<br>7.76<br>7.46<br>+0.50  |
| 3+60                 | 181.37<br>4.67 ✓  | 180.67<br>5.37<br>4.90<br>+0.47  |
| 3+20                 | 184.13<br>1.91 ✓  | 183.45<br>2.59<br>2.09<br>+0.50  |
| 2+80                 | 186.88<br>10.76 ✓ | 186.2<br>11.44<br>10.94<br>+0.50 |
| +37 <sup>th</sup> BC | 189.70<br>7.94 ✓  | 189.17<br>8.47 ✓                 |
| 2+00                 | 192.15<br>5.49 ✓  | 191.82<br>5.82 ✓                 |
| 1+80                 | 193.50<br>4.14 ✓  | 193.22<br>4.42 ✓                 |
| 1+40                 | 196.15<br>1.47 ✓  | 196.05<br>1.59 ✓                 |
| 1+00                 | 198.90            | 198.90                           |

0+32<sup>th</sup> Δ 17<sup>th</sup> 30<sup>th</sup> B

0+0 S. Line Park

205.06  
- 0.90  
205.96  
- 9.53  
196.43  
- 1.21  
197.64  
- 12.43  
185.21  
- 0.82  
186.04  
- 11.62  
174.42  
- 0.54  
174.96  
- 12.43  
162.53  
- 0.53  
163.06

36

163.05

|                       |                                   |                                   |
|-----------------------|-----------------------------------|-----------------------------------|
| 7+20                  | 151.30<br>11.75<br>19.75<br>+1.00 | 152.20<br>10.85<br>10.35<br>+0.50 |
| 8+80                  | 152.90<br>10.15<br>9.15<br>+1.00  | 153.80<br>9.25 ✓                  |
| 8+40                  | 154.50<br>8.55 ✓                  | 155.40<br>7.65 ✓                  |
| 8+00                  | 156.20<br>4.85<br>5.85<br>+1.00   | 157.10<br>5.95 ✓                  |
| 7+60                  | 158.10<br>4.95 ✓                  | 158.90<br>4.15 ✓                  |
| 7+20                  | 160.30<br>2.75 ✓                  | 161.00<br>2.05 ✓                  |
| 7+15 <sup>th</sup> BC |                                   |                                   |
| 6+80                  | 162.50<br>12.46<br>12.46<br>+0.40 | 163.10<br>11.86<br>163.20         |
| 6+40                  | 164.70<br>10.84<br>10.06<br>+0.20 | 164.90<br>10.06<br>7.06<br>+1.00  |
| 6+00                  | 166.90<br>8.04<br>7.64<br>+0.40   | 167.04<br>7.92<br>7.82<br>+0.50   |
| 5+60                  | 169.18<br>5.78<br>5.28<br>+0.50   | 169.12<br>5.84 ✓                  |
| 5+20                  | 171.55<br>3.41 ✓                  | 171.25<br>3.71 ✓                  |
| 5+13 <sup>th</sup> EC |                                   |                                   |
| 4+80                  | 173.92<br>2.82<br>12.42<br>+0.50  | 173.32<br>2.72<br>12.22<br>+0.50  |
| 4+40                  | 176.31<br>9.73<br>9.23<br>+0.50   | 175.61<br>10.43<br>9.93<br>+0.50  |

6+78  
N. End P.C.B.  
163.20

Paused

Paused

SP. 42.044 4.20.2014  
 201971

|                                 | Original                                       | change                          | change                          | Final          |
|---------------------------------|--|---------------------------------|---------------------------------|----------------|
| 14+20                           | 127.20<br>12.96<br>12.72<br>+0.24              | <del>126.84</del>               | <del>126.84</del>               | 140.16         |
| 13+80                           | 129.62<br>10.54<br>9.64<br>+0.90               | <del>129.32</del>               | <del>131.24</del>               | 135.40         |
| 13+40                           | 132.10<br>6+20 NE C.B<br>8.06<br>7.16<br>+0.90 | <del>131.80</del>               | <del>133.86</del>               | 135.40         |
| 13+12.56 C.B                    | 70.90  |                                 |                                 |                |
| 13+00                           | 134.58<br>5.66<br>4.96<br>+0.70                | 134.20<br>5.76<br>4.96<br>+1.00 | 136.00<br>4.16                  | 140.16         |
| 12+60                           |  | 136.75<br>3.41                  | 137.80<br>2.36                  |                |
| 12+57 <sup>56</sup> EC<br>37.56 |  |                                 |                                 |                |
| 12+20                           |  | 139.00<br>11.88                 | 139.40<br>11.48                 | 150.88         |
| 11+80                           |  | 141.00<br>9.88<br>8.88<br>+1.00 | 141.05<br>9.83                  |                |
| 11+40                           |  | 142.70<br>8.18<br>7.68<br>+0.50 | 142.70<br>8.18<br>7.38<br>+0.80 |                |
| 11+00                           |  | 144.26<br>6.12<br>6.12<br>+0.50 | 144.35<br>6.58<br>6.08<br>+0.50 |                |
| 10+60                           | 35.24  | 145.82<br>5.06<br>4.56<br>+0.50 | 146.10<br>4.78<br>4.28<br>+0.50 | 144.76         |
| 10+24 <sup>26</sup> EC<br>4.76  |  |                                 |                                 | 146.82<br>4.00 |
| 10+20                           |  | 147.34<br>3.50<br>2.50<br>+1.00 | 147.95<br>2.93<br>2.43<br>+0.50 |                |
| 9+80                            |  | 148.95<br>1.93<br>0.93<br>+1.00 | 149.75<br>1.13<br>0.43<br>+0.70 |                |
| 9+40                            |  | 150.50                          | 151.40                          | 163.05         |
| 19.94                           |  | 12.55<br>11.55<br>+1.00         | 11.65<br>11.15                  |                |
| 9+20                            |  |                                 | 70.50                           |                |

|            | Original                             | change                            | change | Final  |
|------------|--------------------------------------|-----------------------------------|--------|--------|
| 18+80      | 101.40<br>2.05<br>2.07<br>0.00       | 2.05<br>0.142                     | 101.20 | 103.77 |
| 18+4304 EC |                                      |                                   |        |        |
| 18+40      | 102.80 gr<br>12.98<br>12.73<br>+0.25 | 12.73<br>103.05                   | 102.30 | 115.78 |
| 18+00      | 104.70 gr<br>11.08<br>11.08<br>0.00  | 11.08<br>104.71                   | 103.90 | 115.78 |
| 17+60      | 106.90 gr<br>8.89<br>7.13<br>-0.25   | 7.24<br>106.65                    | 105.80 | 115.78 |
| 17+40      | 109.0 gr<br>7.78<br>7.84<br>0.06     | 7.24<br>107.94                    | 107.00 | 115.78 |
| 17+20      | 110.4<br>5.38<br>5.50<br>-0.12       | 5.50<br>110.28                    | 109.40 | 115.78 |
| 16+60      | 113.0 gr<br>2.78<br>2.78<br>0.00     | 2.80<br>112.98                    | 111.80 | 115.78 |
| 16+20      | 115.4<br>12.57<br>14.04<br>+0.53     | 13.57<br>12.104<br>+1.53          | 113.75 | 127.97 |
| 15+80      | 117.8<br>10.17<br>10.12<br>+0.05     | 117.45<br>10.52<br>10.12<br>+0.40 | 116.85 | 127.97 |
| 15+40      | 120.20<br>7.17<br>7.12<br>+0.05      | 7.12<br>119.85                    | 119.85 | 127.97 |
| 15+00      | 121.60<br>5.37<br>5.22<br>+0.15      | 5.12<br>121.35                    | 121.35 | 127.97 |
| 14+60      | 124.85<br>3.12<br>2.77<br>+0.35      | 3.57<br>124.40                    | 124.40 | 127.97 |



Final  $\bar{X} 103.47$

Final

23+02 <sup>8Y</sup> C.T.

$\frac{91.65}{11.82}$

$\frac{91.65}{11.82}$

22+94 <sup>88</sup> EG

$\bar{X} 103.47$

22+80

$\frac{92.60}{10.87}$   
0.0

$\frac{92.20}{11.77}$   
0.0

22+40

$\frac{94.25}{9.72}$   
0.0

$\frac{92.70}{10.77}$   
0.0

22+00

$\frac{95.65}{7.82}$   
0.0

$\frac{93.35}{10.12}$   
0.0

21+60

$\frac{96.60}{6.87}$   
0.0

$\frac{94.20}{9.27}$   
0.0

21+20

$\frac{97.40}{6.07}$   
0.0

$\frac{95.30}{8.07}$   
0.0

20+85 <sup>21</sup> BC

20+80

$\frac{98.10}{5.37}$   
0.0

$\frac{96.30}{7.17}$   
0.0

20+40

$\frac{98.70}{4.77}$   
0.0

$\frac{97.40}{6.07}$   
0.0

20+00

$\frac{99.20}{4.27}$   
0.0

$\frac{98.60}{4.87}$   
0.0

19+60

$\frac{99.90}{3.57}$   
0.0

$\frac{99.90}{3.57}$   
0.0

19+20

$\frac{100.50}{2.97}$   
3.07  
0.06

$\frac{101.40}{2.47}$   
1.91  
+ 0.16

Empty grid area on page 38.

2-77-39

26th St Extension at Pershing

see F.B. 1556-53

|                |       |        |       |       |       |       |                          |
|----------------|-------|--------|-------|-------|-------|-------|--------------------------|
| B.M.           | 1044  | 102.10 |       |       |       | 91.66 | N. End. of<br>Cone. Ford |
| Head of gutter | 23+70 | 20+00  | +25   | +50   | +75   | 25+00 | +25                      |
| D Line         | 10.20 | 9.50   | 8.80  | 7.70  | 6.30  | 4.80  | 3.20                     |
|                | 91.90 | 92.60  | 93.90 | 94.40 | 95.80 | 97.30 | 98.80                    |
|                |       |        |       |       |       |       | 101.80                   |
|                |       |        |       |       |       |       | 112.23                   |

|                   |       |       |       |      |       |       |  |
|-------------------|-------|-------|-------|------|-------|-------|--|
| C Line<br>W. edge | 92.20 | 94.00 | 94.90 | 96.3 | 98.80 | 99.20 |  |
|                   | 8.70  | 8.10  | 7.20  | 5.80 | 4.30  | 2.90  |  |
|                   | 9.40  | 8.36  | 7.30  | 5.90 | 4.42  | 2.80  |  |
|                   | -0.50 | 0.24  | 0.10  | 0.10 | -0.12 | 0.0   |  |

|        |       |       |       |  |  |  |       |
|--------|-------|-------|-------|--|--|--|-------|
| B Line | 24+00 | 24+50 | 24+80 |  |  |  | pav   |
|        | 93.0  | 93.00 | 92.90 |  |  |  | 9.30  |
|        | 9.1   | 9.10  | 9.20  |  |  |  | 92.80 |
|        | 9.40  | 8.95  | 8.80  |  |  |  |       |
|        | -0.30 | +0.15 | +0.40 |  |  |  |       |

102.10

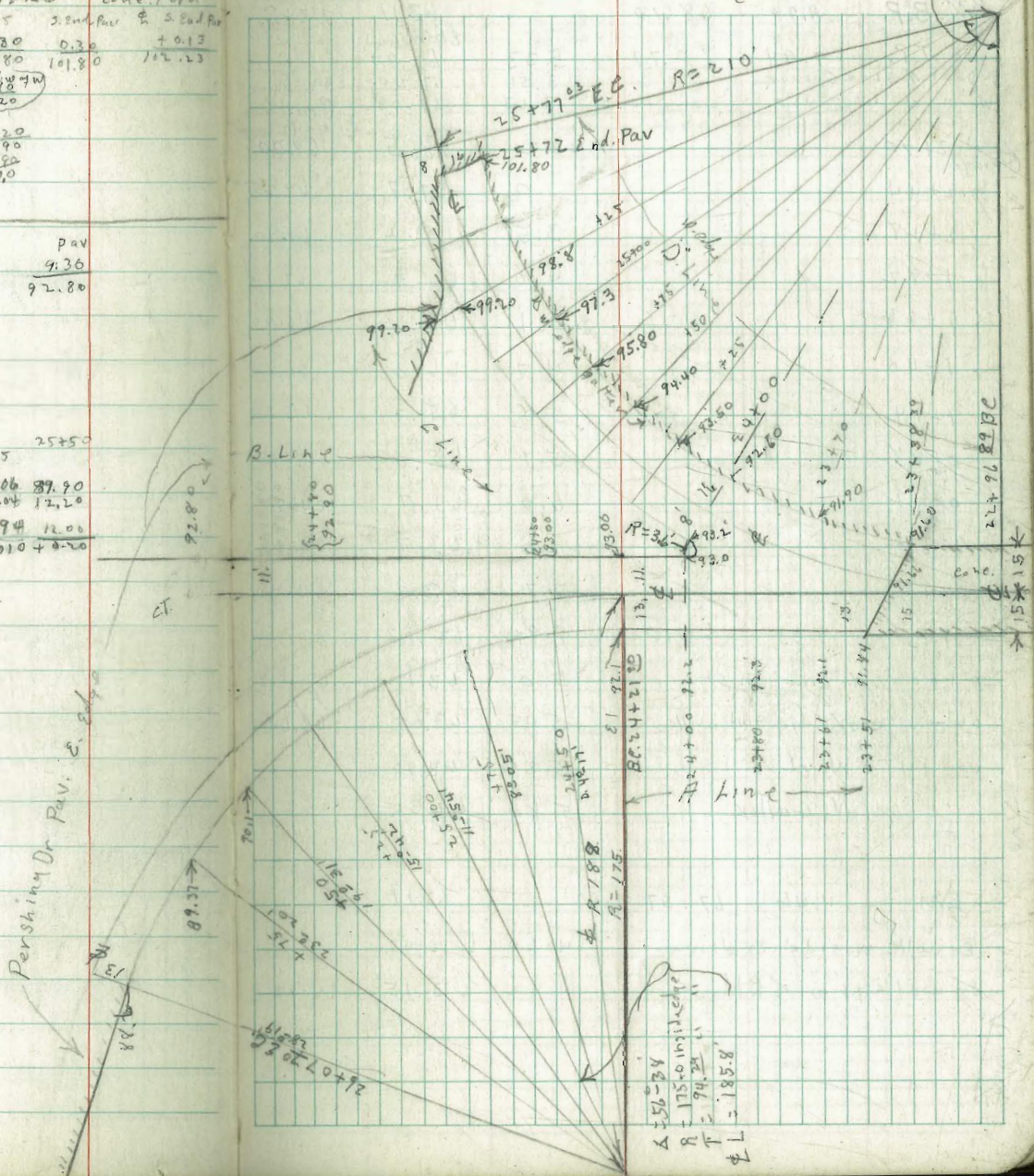
|        |       |       |       |       |       |       |       |       |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| A Line | 23+61 | 24+00 | +25   | 24+50 | +75   | 25+00 | +25   | 25+50 |
|        | 92.10 | 91.60 | 91.16 | 90.80 | 90.40 | 90.20 | 90.06 | 89.90 |
|        | 10.00 | 10.50 | 10.94 | 11.30 | 11.70 | 11.90 | 12.04 | 12.20 |
|        | 10.34 | 10.65 | 10.94 | 11.48 | 12.06 | 12.57 | 12.94 | 13.00 |
|        | -0.34 | -0.15 | 0.0   | 0.18  | 0.36  | 0.67  | +0.10 | +0.20 |

|        |        |           |
|--------|--------|-----------|
| A Line | 25+75  | 26+07 EC  |
|        | 102.10 | 13.50 pav |
|        | 89.37  | 88.60     |
|        | 11.73  |           |
|        | 13.03  |           |
|        | -0.30  |           |

Indexed

Δ 76-26  
R = 210  
L = 165.35  
L = 290.14

39



See Page 43  
" " 20 10' Alley W. of Garage.

|                        |                  |       |      |       |                                   |
|------------------------|------------------|-------|------|-------|-----------------------------------|
| B.M. B.P.              | 4.99             | 68.10 |      | 63.11 | N.W. Cor<br>19 <sup>th</sup> & B. |
| T.P.                   | 7.94             | 70.71 | 5.33 | 62.77 | El Ground                         |
| E. Door N. side Garage |                  |       | 3.51 | 67.20 |                                   |
| W. " N. " "            |                  |       | 3.63 | 67.08 | E + W. h/w<br>Grade               |
| N. End Garage          | 2+70             |       | 2.2  | 68.5  | ± 0.42 low<br>68.80               |
|                        | 2+44             |       | 3.0  | 67.7  | 68.25                             |
|                        | 2+18             |       | 3.5  | 67.2  | 67.70                             |
|                        | 1+92             |       | 4.0  | 66.7  | 67.15                             |
|                        | 1+66             |       | 4.1  | 66.6  | 66.60                             |
|                        | 1+40             |       | 4.7  | 66.0  | 66.05                             |
|                        | 1+14             |       | 5.0  | 65.7  | 65.50                             |
|                        | 0+88             |       | 5.7  | 65.0  | 64.95                             |
|                        | 0+62             |       | 6.0  | 64.7  | 64.40                             |
|                        | 0+36             |       | 7.0  | 63.7  | 63.85                             |
| S. End Garage          | 0+10             |       | 7.7  | 63.0  | 63.30                             |
| T.P.                   | 5.33             | 68.10 | 7.94 | 62.77 |                                   |
| 0+00                   | N. Line B St.    |       | 5.0  | 63.1  |                                   |
| 00-                    | N. Edge ext walk |       | 5.05 | 63.05 | F.L.<br>62.65                     |
| 00-14                  | N. cl.           |       | 5.20 | 62.90 |                                   |
| "                      | N. Gutter        |       | 5.80 | 62.30 |                                   |

|                            |      |       |      |       |       |
|----------------------------|------|-------|------|-------|-------|
| B.M.                       | 4.46 | 67.57 |      | 63.11 |       |
| Ex walk, n. side Ex. drive |      |       | 4.60 | 62.97 |       |
| Ex walk 11' w. of Bldg.    |      |       | 4.42 | 63.15 | 62.97 |

Indexes  
Joy

|       |       |       |       |       |            |
|-------|-------|-------|-------|-------|------------|
| 63.30 | 63.85 | 64.40 | 64.95 | 65.50 | 66.05      |
| 4.59  | 4.04  | 3.49  | 2.94  | 2.39  | 1.84       |
| 3.57  | 3.04  | 2.49  | 1.94  | 1.39  | 0.84       |
| +1.00 | +1.00 | +1.00 | +1.00 | +1.00 | +1.00      |
| 66.40 | 67.15 | 67.70 | 68.25 | 68.80 | 69.35      |
| 1.29  | 6.20  | 5.65  | 5.10  | 4.55  | 4.00       |
| 0.29  | 5.20  | 4.65  | 4.10  | 3.55  | 3.00       |
| +1.00 | +1.00 | +1.00 | +1.00 | +1.00 | +1.00      |
|       |       |       |       |       | B.M. 63.11 |
|       |       |       |       |       | 4.78       |
|       |       |       |       |       | 67.89      |
|       |       |       |       |       | 1.18       |
|       |       |       |       |       | 66.71      |
|       |       |       |       |       | 6.64       |
|       |       |       |       |       | 73.35      |

± Grade  
62.88

+0.40

+0.78

Grades. Alleys. Bkgs. 38 + 39  
H.P. Whitney's Add

|                                      |     |                |                |                                 |
|--------------------------------------|-----|----------------|----------------|---------------------------------|
| BM BP                                | 998 | 60.50          | 50.52          | S.W. 31 <sup>st</sup><br>Boston |
|                                      |     | S. Line        | N. Line        |                                 |
| H 80 W. of 31 <sup>st</sup> B        |     | 53.10          | 53.20          |                                 |
| H 50 W. of 31 <sup>st</sup> Ent. pay |     | 53.32          | 53.50          |                                 |
| 1+25                                 |     | 53.51          | 53.75          |                                 |
| 1+00 B                               |     | 53.70<br>-43   | 54.00<br>.43   |                                 |
| 0+70                                 |     | 54.13<br>43    | 54.43<br>.43   |                                 |
| 0+40                                 |     | 54.54<br>.44   | 54.86<br>.44   |                                 |
| 0+10 B                               |     | 55.00          | 55.30          |                                 |
| 0+00 W. Line 31 <sup>st</sup>        |     | 55.20          | 55.72          |                                 |
|                                      |     | Ex. Pay. 55.10 | 55.73 Ex. Pay. |                                 |
| 0+00 2. Line 31 <sup>st</sup>        |     | 55.10          | 54.80          | 55.70                           |
| 0+25                                 |     | 55.17          | 55.17          |                                 |
| 0+50                                 |     | 55.25          | 55.25          |                                 |
| 0+75                                 |     | 55.32          | 55.32          |                                 |
| 1+00                                 |     | 55.40          | 55.40          |                                 |
| 1+40 B                               |     | 55.52          | 55.52          |                                 |

Indexed ~~08~~ 41

W of 31<sup>st</sup> st

|                                  |   |                                     |                                |                                |                                |                                |                                |
|----------------------------------|---|-------------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|
| S                                | 760.50<br>Ex. Pay<br>55.20<br>-5.30       | B<br>55.00<br>5.50<br>5.27<br>+0.23 | 54.56<br>5.74<br>5.83<br>+0.11 | 54.13<br>4.37<br>5.37<br>+1.00 | B<br>53.70<br>6.80<br>9.00     | 53.50<br>7.00<br>5.00<br>+2.00 | 53.32<br>7.18<br>6.18<br>+1.00 |
| N                                | 87. Pay<br>55.74<br>4.76                  | 55.30<br>5.20<br>4.45<br>+0.75      | 54.86<br>5.44<br>5.19<br>+0.45 | 54.43<br>4.67<br>4.07<br>+2.00 | 54.00<br>6.50<br>3.50<br>+3.00 | 53.75<br>6.73<br>6.63<br>+0.12 | 53.50<br>7.00<br>6.84<br>+0.16 |
| 760.50 2 of 31 <sup>st</sup> st. |   |                                     |                                |                                |                                |                                |                                |
| S                                | Ex. Pay<br>55.10<br>5.10<br>5.23<br>+0.17 | 55.17<br>5.23<br>4.81<br>+0.45      | 55.25<br>5.25<br>4.64<br>0.57  | 55.32<br>5.18<br>4.78<br>+0.40 | 55.40<br>5.10<br>4.65<br>+0.75 |                                | 54.80<br>5.70<br>5.23<br>+0.47 |
| N                                | 55.10<br>5.40<br>4.76<br>+0.64            | 55.17<br>5.33<br>4.73<br>+0.60      | 55.25<br>5.25<br>5.00<br>+0.25 | 55.32<br>5.18<br>5.60<br>+0.18 | 55.40<br>5.10<br>3.10          |                                |                                |
|                                  | 4.76<br>65.74                             |                                     |                                |                                |                                |                                |                                |

8-16-38

Nantasket Ct. Grades

|                        |                     |      |                     |                       |
|------------------------|---------------------|------|---------------------|-----------------------|
| BM. BP.                | 2.57                | 9.64 | 7.07                | SW. O. Ft<br>San Juan |
| W. Line Strandway      | $\frac{5.50}{4.14}$ |      |                     |                       |
| 00 = E. Line S.W.      | $\frac{5.30}{4.34}$ |      | $\frac{5.30}{4.34}$ |                       |
| 0+41 <sup>5</sup>      | $\frac{2.75}{6.89}$ |      | $\frac{2.75}{6.89}$ |                       |
| 0+81 W. line Miss Blvd | $\frac{0.20}{9.44}$ |      | $\frac{0.20}{9.44}$ |                       |
| ex. walk.              | $\frac{9.48}{0.16}$ |      | $\frac{9.52}{0.12}$ |                       |

Pismo Ct. Grades

|                        |                       |      |      |                           |
|------------------------|-----------------------|------|------|---------------------------|
| BM. BP.                | 2.23                  | 9.42 | 7.19 | S.W. O. Ft<br>Santa Clara |
| T.P.                   | 3.48                  | 3.76 | 9.14 | 0.28                      |
| 0+00 E. Line Miss Blvd | $\frac{-4.06}{-0.30}$ |      |      | ex walk                   |
| 0+50                   | $\frac{-0.38}{4.14}$  |      |      |                           |
| 1+00                   | $\frac{-0.46}{4.22}$  |      |      |                           |
| 1+50                   | $\frac{-0.54}{4.30}$  |      |      |                           |
| 2+00                   | $\frac{-0.63}{4.39}$  |      |      |                           |
|                        | $\frac{3.42}{80.97}$  |      |      |                           |

Indexed

3.76

42

|                |                      |       |
|----------------|----------------------|-------|
| 2+34 W. B.S.L. | $\frac{-0.70}{4.46}$ | -0.70 |
| E. B.S.L.      | $\frac{-0.70}{4.46}$ | -0.70 |
| 0+40           | $\frac{-0.55}{4.31}$ |       |
| 0+40 W. B.S.W. | $\frac{-0.40}{4.16}$ | -0.40 |

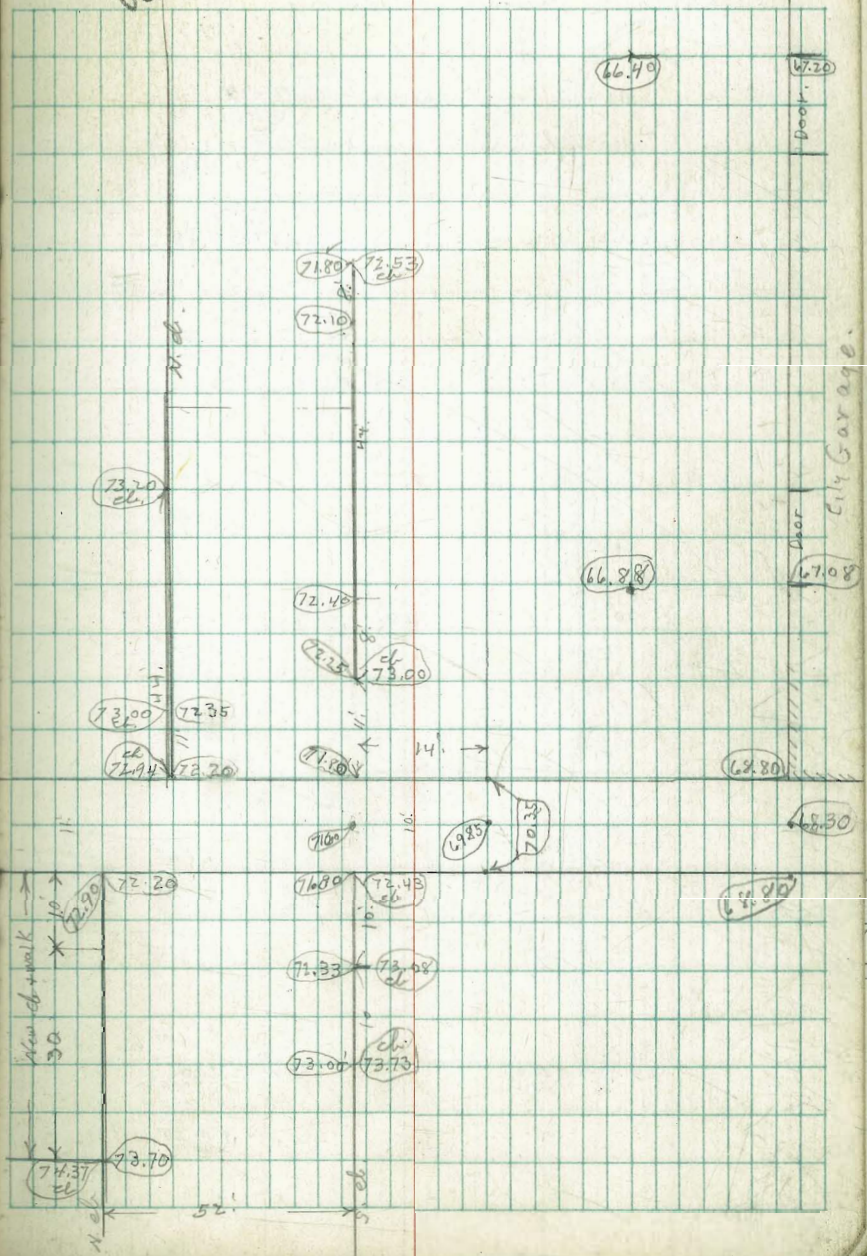
See Page 40 + 20 Pav. Grades A. at 18' N. of City Garage

69.80  
7.68  
77.48  
68.13  
7.35

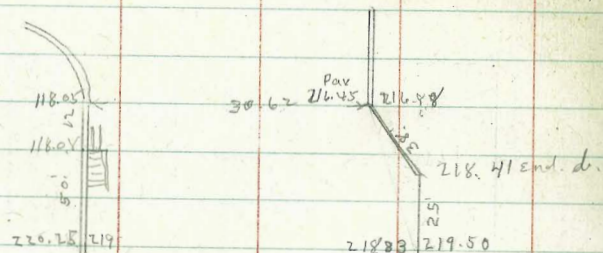
|       |       |       |       |       |       |       |       |
|-------|-------|-------|-------|-------|-------|-------|-------|
| 71.80 | 72.40 | 72.25 | 71.90 | 71.80 | 71.80 | 72.33 | 73.00 |
| 5.67  | 5.04  | 5.23  | 5.68  | 5.88  | 5.68  | 5.15  | 4.47  |
| N. of |       |       |       |       |       |       |       |
| 72.35 | 72.20 | 72.20 | 72.90 | 72.90 | 72.90 | 70.35 | 69.85 |
| 5.13  | 5.28  | 5.28  | 4.58  | 4.58  | 4.58  | 7.13  | 7.63  |

Indexed  
80

(65.50) (65.60) (65.30) 43



8-31-34 31st St. Grades. Beech to Cedar.



10'

40'

10'

228.77 228.05

227.53

228.70

cb  
230.97

230.41  
Pav

229.60 230.10

230.10  
Pav

230.60  
cb

### Indexed

44

S.E. 31st

B.M.B.P.

1.84

232.45

230.57 Beech

E 26  
1.85  
230.60

Gutter  
2.38  
230.10

Gutter Wd

2.35  
230.10

229.60  
2.85

2.04 6.51  
230.41 230.94

3.82  
3.40  
4.2

4.25  
229.29

227.53  
4.92

228.05 3.04  
4.40 229.77

3.14  
4.5

T.P.

3.22

223.53

12.14

220.31

219.50  
4.03  
4.23  
40.24

4.17 3.45  
219.36 220.08

218.17  
5.34  
4.34  
4.00

FLG. cut  
7.15 5.45  
178.08

cb  
6.66  
216.27

Pav  
7.08  
216.45

Pav  
5.95  
217.89

cb  
5.45  
218.05

3.78  
0.80  
4.58  
2.40  
21.18  
1.09

1.90 3.78  
.50 1.80  
2.40 4.80  
1224.08  
218.41  
5.67  
4.34  
11.53

7.20  
216.89

216.88  
6.94

223.82

218.41  
5.41  
4.91  
10.50

9-6-34

Grades Alley Bk 145 Univ. Hts

W. Line

E. Line

309.54

4 + 00

303.76  
5.82  
5.49  
+0.33 ✓

304.66  
5.52  
3.59  
+1.93 ✓

3 + 60

303.59  
5.99  
6.76  
-0.77 ✓

303.89  
5.69  
4.21  
+1.48 ✓

3 + 20

303.42  
6.16 ✓  
7.01  
-0.85 ✓

303.72  
5.86  
4.71  
+1.15 ✓

2 + 80

303.25  
6.33  
6.70  
-0.37 ✓

303.55  
6.03  
4.71  
+1.32 ✓

2 + 40

303.08  
5.80  
4.45  
+0.55 ✓

T306.04

303.38  
4.70  
3.70  
+1.00 ✓

2 + 00

302.91  
5.17 ✓  
5.17  
0.00

303.21  
4.97  
3.66  
+1.21 ✓

1 + 60

302.74  
5.54  
5.59  
-0.25 ✓

303.04  
5.04  
4.43  
+0.61 ✓

1 + 20

302.57  
5.51  
6.19  
-0.18 ✓

302.87  
5.21  
4.39  
+0.82 ✓

0 + 80 B

302.40  
5.68  
5.44  
+0.24 ✓

302.70  
5.38  
3.38  
+2.00 ✓

0 + 60 B

302.25  
5.83  
5.94  
-0.11 ✓

302.55  
5.53  
4.87  
+0.66 ✓

308.08  
297.90  
10.18  
3.13  
6.55

0 + 50 Sewer lat. (2)

0 + 40 B

302.00  
9.65  
7.65  
+2.00 ✓

T311.65

302.35  
9.30  
8.23  
+1.07 ✓

0 + 00 = N. line  
Polk Ave.

301.05  
10.60 ✓

301.82  
7.83 ✓

Indexed

309.97 BM S. & Polk  
Mississippi

311.65  
302.29  
304.98  
4.00  
303.89  
5.54  
309.58

BM 315.94  
S.W. Howard  
Miss.

45

Howard  
5 + 99

302.92  
6.66

T309.58

304.26  
5.32

5 + 80 B

303.80  
5.78  
5.62  
+0.16 ✓

304.55  
5.83  
3.70  
+1.33 ✓

5 + 60 B

304.25  
5.33  
5.07  
+0.26 ✓

304.77  
4.81  
3.90  
+0.91 ✓

5 + 40 B

304.37  
5.21 ✓  
5.21  
0.00 ✓

304.67  
4.91  
4.25  
+0.66 ✓

5 + 20

304.27  
5.31  
5.76  
-0.45 ✓

309.58

304.57  
5.01  
4.34  
+0.67 ✓

5 + 19 Sewer lat. (1)

4 + 80

304.10  
5.48  
4.02  
-0.54 ✓

304.40  
5.18  
4.00  
+1.18 ✓

309.58  
297.90  
4.68  
4.76  
5.52

4 + 40

303.93  
5.45  
6.49  
-0.84 ✓

304.23  
5.35  
3.90  
+1.45 ✓

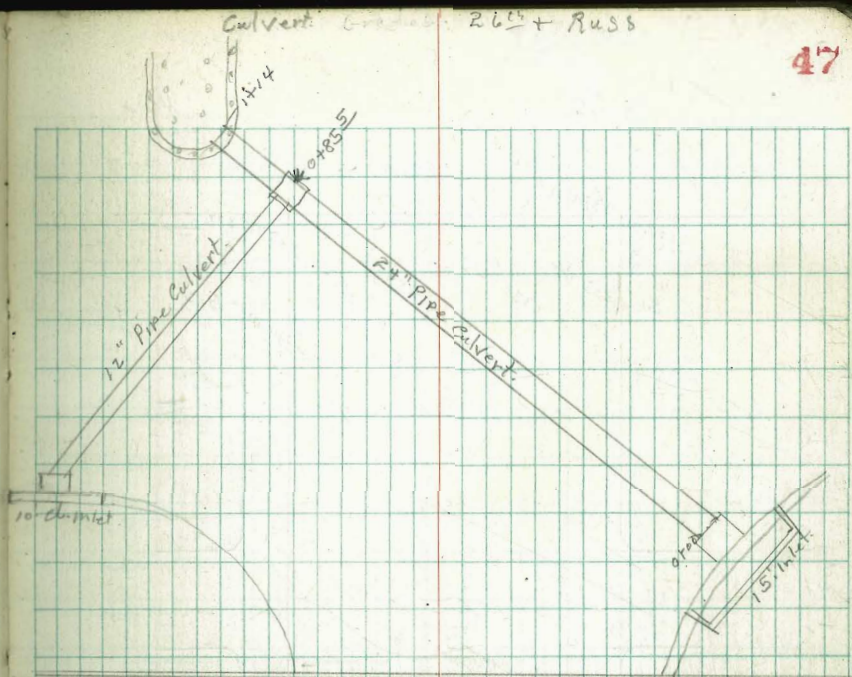




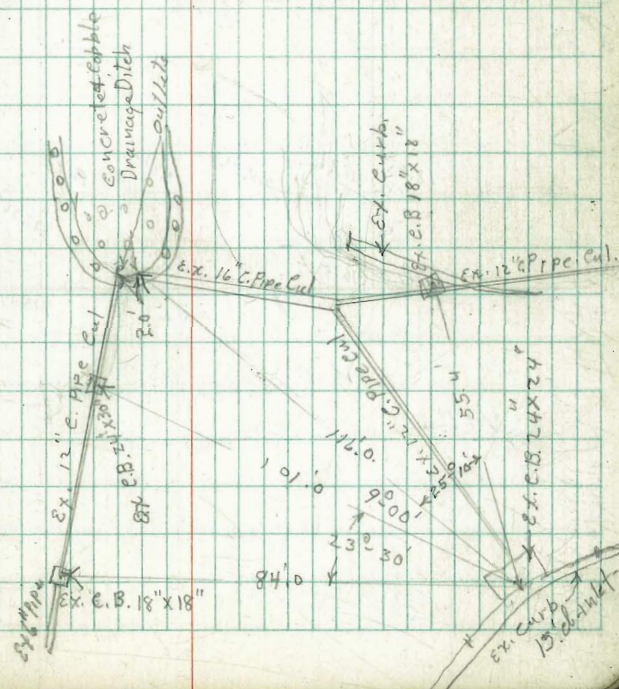
| R.M. B.P.                      | 1.37 | 206.40 |        | 205.03 | N.W. 26 <sup>th</sup> |
|--------------------------------|------|--------|--------|--------|-----------------------|
| 0+00-2.0 = Curb. at ch. intake |      | 4.00   | 202.4  | 197.8  | + 4.60                |
| 0+25.5 stub                    |      | 4.80   | 201.60 | 197.1  | + 4.50                |
| 0+57 "                         |      | 6.66   | 199.74 | 195.8  | + 3.94                |
| 0+85.5 "                       |      | 9.37   | 197.03 | 193.8  | + 3.23                |
| 1+14 " outlet                  |      | 11.04  | 195.36 | 191.8  | + 3.56                |
| 1+14 Top Wall                  |      | 11.56  | 194.84 |        |                       |
| 1+14 F.L.                      |      | 14.60  | 191.8  |        |                       |

| 12" Pipe                            |      |        |        |       | d. Gr |
|-------------------------------------|------|--------|--------|-------|-------|
| 0+00-2.0 Stakeat. w. end. ch. inlet | 6.13 | 200.27 | 200.00 | 19.27 |       |
| " " " "                             | 5.94 | 200.46 | 200.00 | 10.46 |       |
| " " " "                             | 6.01 | 200.39 | 200.00 | 10.39 |       |
| " " Ex. grating                     |      | 199.07 |        |       |       |

|                      |      |        |       |        |  |
|----------------------|------|--------|-------|--------|--|
| 0+00 F.L.            | 5.94 | 200.46 | 196.0 | + 4.46 |  |
| 0+22.5               | 7.30 | 99.10  | 195.2 | + 3.90 |  |
| 0+45 Junction 0+85.5 | 9.37 | 197.03 | 193.8 | + 3.23 |  |



Ex. Culverts  
26<sup>th</sup> + Russ

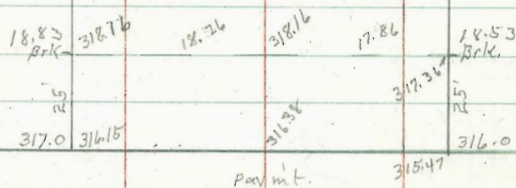
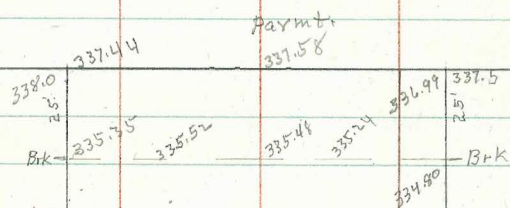


9-7-38

Landis St Grades

Pershing

Ave



Villa

Terrace

B.M. S & Landis + Arnold. 2.21.85  
338.40

Indexed

48

Grades. Alley Blk 109 Univ. Hts  
 Meads S. to E. W. Alley Bet. Utah + Kansas  
 W. E.  
 #372.39

Indexed

49

|                                |                                  |                                 |
|--------------------------------|----------------------------------|---------------------------------|
| 2+40                           | 68.22<br>4.17<br>5.13<br>-0.96   | 68.19<br>4.20<br>4.70<br>-0.50  |
| 2+10                           | 68.30<br>4.09<br>4.84<br>-0.75   | 68.27<br>4.12<br>4.80<br>-0.68  |
| 1+80                           | 68.39<br>4.00<br>4.61<br>-0.61   | 68.34<br>4.05<br>4.62<br>-0.57  |
| 1+50                           | 68.48<br>5.58<br>6.50<br>-0.92   | 68.42<br>3.97<br>4.75<br>-0.78  |
| 1+37 <sup>E</sup> Sewer<br>Lat | 363.51<br>10.55<br>6.35<br>-4.15 | 374.06                          |
| 1+20                           | 68.56<br>5.50<br>6.10<br>-0.60   | 68.50<br>5.56<br>6.02<br>-0.46  |
| 0+90                           | 68.65<br>5.41<br>5.64<br>-0.23   | 68.58<br>5.48<br>5.44<br>0.00   |
| 0+60                           | 68.73<br>5.33<br>5.70<br>-0.37   | 68.65<br>5.41<br>5.41<br>0.00   |
| 0+30                           | 68.82<br>5.24<br>5.70<br>-0.46   | 68.72<br>5.34<br>5.34<br>0.00   |
| 0+00 = N Line<br>E + W. Alley  | 368.90<br>5.16<br>5.07<br>+0.09  | 368.80<br>5.24<br>4.26<br>+1.00 |

|                       | 68.34<br>5.64                   | 68.34<br>5.72 |                                 | BM. B.P. S.E. Meads Kansas 366.74  |
|-----------------------|---------------------------------|---------------|---------------------------------|--|
|                       |                                 |               |                                 | 5.30<br>372.08<br>4.27<br>367.81<br>4.58<br>372.39<br>4.80<br>367.59<br>6.47<br>374.06 |
|                       |                                 |               | W                               | E  |
|                       |                                 |               |                                 | 372.08   |
| S. Line Meads<br>4+50 | Pay.<br>367.60<br>4.48          |               | Pay<br>367.69<br>4.39           |  |
| 4+30 B.W.             | 367.71<br>4.37<br>4.56<br>-0.19 |               | 367.74<br>4.34<br>4.28<br>+0.06 |  |
| 3+90                  | 67.80<br>4.28<br>4.61<br>-0.33  |               | 367.84<br>4.24<br>4.33<br>-0.09 |  |
|                       |                                 |               |                                 | 372.39   |
| 3+60                  | 67.88<br>4.51<br>5.09<br>-0.58  |               | 67.91<br>4.48<br>4.44<br>0.00   |  |
| 3+30                  | 67.97<br>4.42<br>4.86<br>-0.44  |               | 67.97<br>4.42<br>4.42<br>0.00   |  |
| 3+00                  | 68.05<br>4.34<br>3.84<br>+1.00  |               | 68.05<br>4.34<br>4.44<br>-0.10  |  |
| 2+70                  | 68.14<br>4.25<br>5.20<br>-0.95  |               | 68.12<br>4.27<br>4.77<br>-0.50  |  |

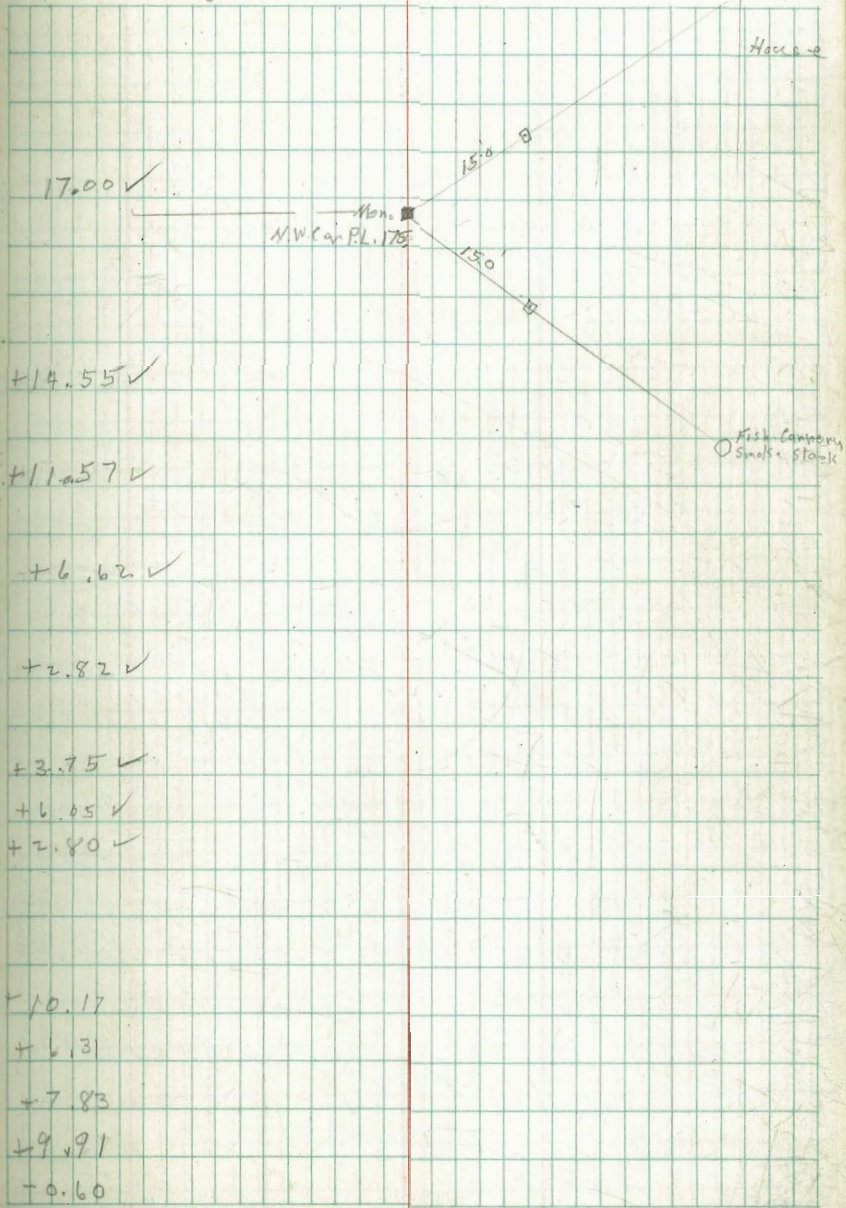


Culvert Grades Lot. 5 Cuosta Loma  
 + P.Ls. 174-5-6-7-8.

Indexed

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|                                  |        |          |       |  |
|----------------------------------|--------|----------|-------|--|
|                                  | 106.97 |          |       |  |
| 275.2 Connection D. Type C.B.    | 000    | 106.90   | 89.90 |  |
| 2+56 Man                         |        |          |       |  |
| 2 54.0 End. pipe above Ground    |        |          |       |  |
| 2+43 <sup>10.4</sup> Δ 5-2ilt.   | 9.27   | 97.65    | 83.10 |  |
|                                  | 94.70  |          |       |  |
| 2+00                             | 9.53   | 85.17    | 73.60 |  |
|                                  | 70.54  |          |       |  |
| 1+50                             | 1.22   | 69.32    | 62.70 |  |
|                                  | 57.72  |          |       |  |
| 1+00 B                           | 3.10   | 54.62    | 51.80 |  |
| T.P.                             | 45.42  |          |       |  |
| 0+50                             | 0.77   | 44.65    | 40.90 |  |
| 0+24                             | 4.17   | 41.25    | 35.20 |  |
| D. Type C.B. with<br>Risers 0+00 | 12.62  | 32.80    | 30.0  |  |
|                                  | 33.06  | 32.80    | 32.40 |  |
| 1+75.7 S. curb.                  | 9.20   | 23.86 FL |       |  |
| 227                              |        |          |       |  |
| 1+53                             | 3.96   | 29.10    | 18.93 |  |
|                                  | 20.67  |          |       |  |
| 1+00                             | 8.16   | 17.51    | 11.20 |  |
| 0+47                             | 9.34   | 11.33    | 3.50  |  |
| 0+22                             | 10.88  | 9.79     | -0.12 |  |
|                                  | 9.41   |          |       |  |
| 0+00 Outlet Bank                 | 12.01  | -2.60    | -2.00 |  |



17.00 ✓  
 +14.55 ✓  
 +11.57 ✓  
 +6.62 ✓  
 +2.82 ✓  
 +3.75 ✓  
 +6.05 ✓  
 +2.80 ✓  
 -10.17  
 +6.3  
 -7.83  
 +9.91  
 -0.60

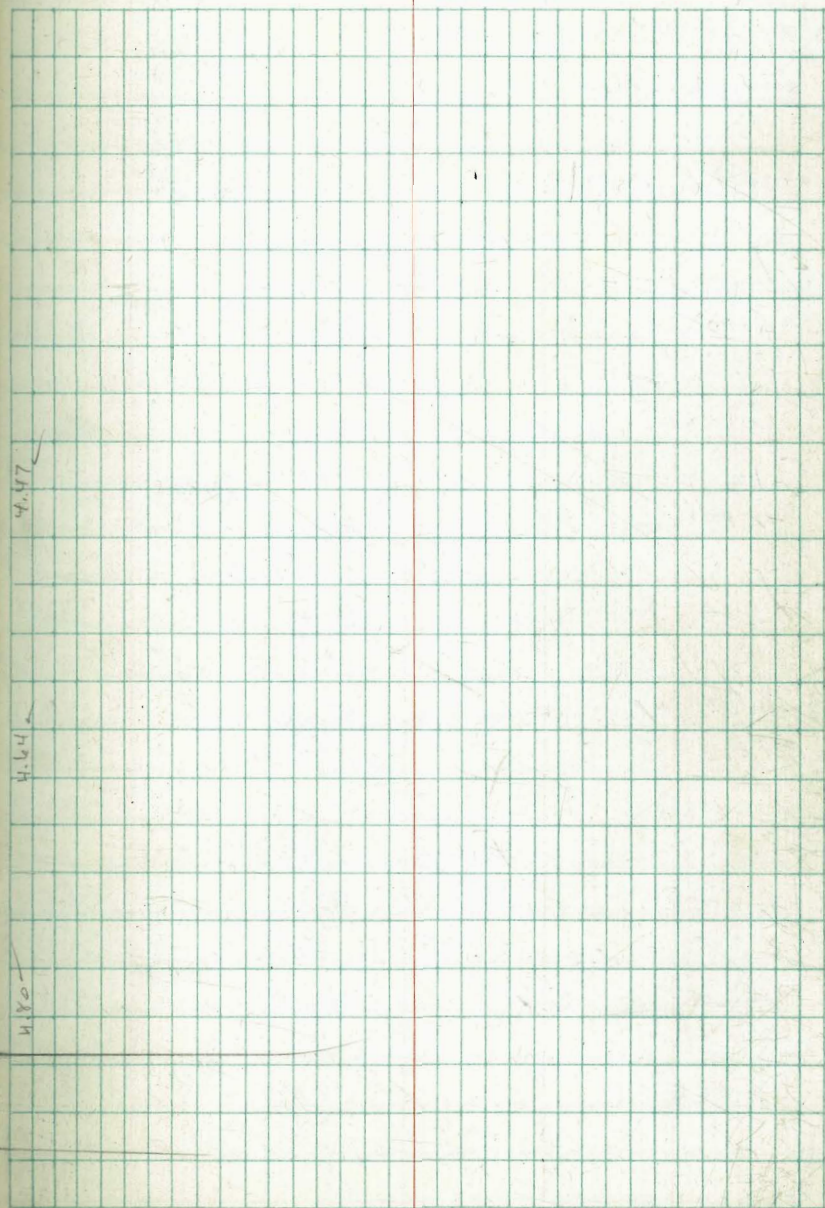
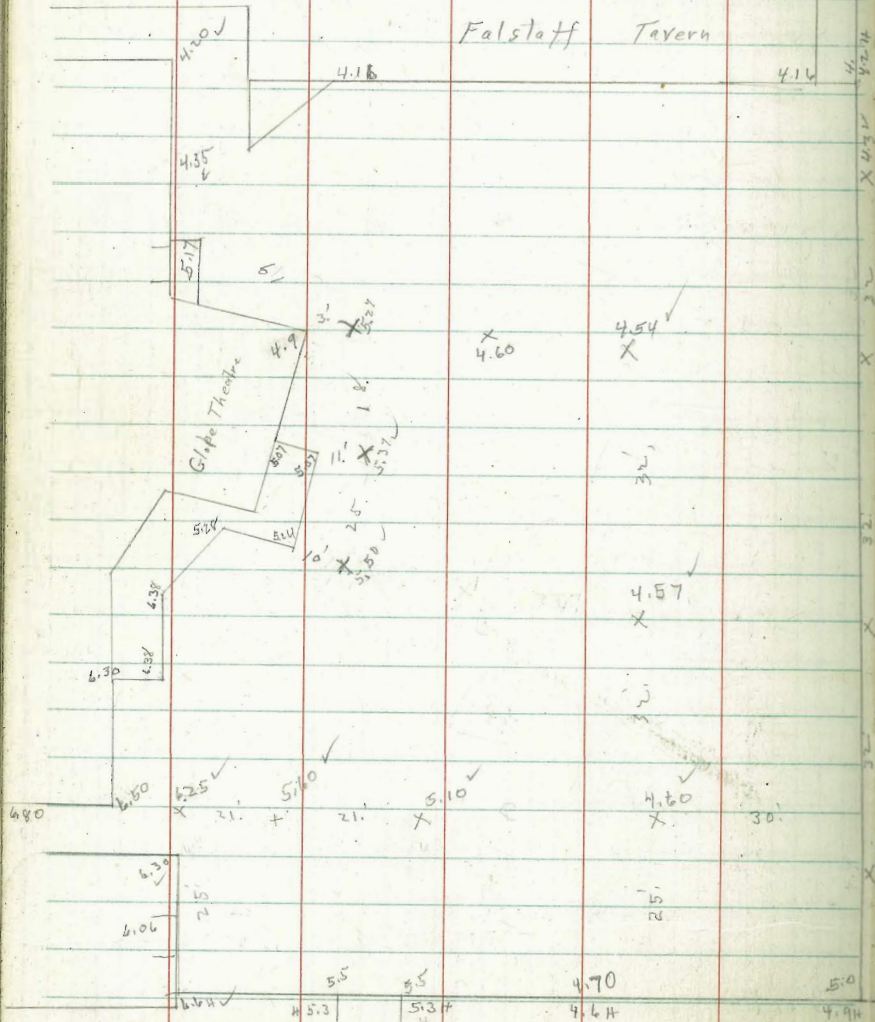
A table with 6 columns and 20 rows. The columns are defined by vertical red lines, and the rows are defined by horizontal green lines. The table is currently empty.

A table with 12 columns and 20 rows. The columns are defined by vertical green lines, and the rows are defined by horizontal green lines. The table is currently empty.

10-1-34

Grades at Old Globe Theatre

Indexed  
~~10-1-34~~







Finish Grades Page 36.

9+40  
20.  
9+20

π 162.22

|                |              |
|----------------|--------------|
| 151.3          | 152.2        |
| 10.9           | 10.0         |
| 9.5 X          | X 5.0        |
| 6' out + 7.4 ✓ | 15.0 out 5.0 |

8+80

|                |               |
|----------------|---------------|
| 152.9          | 153.8         |
| 9.3            | 8.4           |
| 8.3 X          | X 8.3         |
| 6' out + 7.0 ✓ | + 0.1 out 0.1 |

8+40

|                |               |
|----------------|---------------|
| 154.5          | 155.4         |
| 7.7            | 6.8           |
| 7.1 X          | X 3.1         |
| 6' out + 7.0 ✓ | + 3.7 out 3.7 |

8+00 B

|                |               |
|----------------|---------------|
| 156.15         | 157.05        |
| 6.1            | 5.2           |
| 5.2 X          | X 5.2         |
| 6' out + 0.8 ✓ | - 0.5 out 0.7 |

7+60 B

|                |               |
|----------------|---------------|
| 157.20         | 158.80        |
| 4.3            | 3.4           |
| 3.3 X          | X 4.5         |
| 6' out + 1.0 ✓ | - 1.1 out 1.7 |

7+20 B

|                |               |
|----------------|---------------|
| 159.79         | 160.69        |
| 14.6           | 13.7          |
| 13.3 X         | X 13.3        |
| 6' out + 1.3 ✓ | + 0.2 out 0.2 |

7+15<sup>31</sup>

BC 190424

|                |               |
|----------------|---------------|
| 142.05         | 162.90        |
| 0.6            | 11.5          |
| 1.4 X          | X 9.5         |
| 6' out + 6.9 ✓ | + 2.0 out 2.0 |

6+80 B

Restake  
out 7.  
+ 1.2

|                |               |
|----------------|---------------|
| 164.40         | 164.90        |
| 10.0           | 9.4           |
| 8.9 X          | X 8.5         |
| 6' out + 1.1 ✓ | + 0.9 out 0.9 |

6+40 B

|                |               |
|----------------|---------------|
| 166.82         | 167.04        |
| 7.5            | 7.3           |
| 6.8 X          | X 4.4         |
| 7' out + 0.7 ✓ | + 2.9 out 2.9 |

6+00 B

|                |               |
|----------------|---------------|
| 169.18         | 169.12        |
| 5.2            | 5.2           |
| 4.4 X          | X 0.8         |
| 2' out + 0.8 ✓ | + 4.4 out 4.4 |

5+60 B

|                |               |
|----------------|---------------|
| 171.55         | 172.25        |
| 2.8            | 3.1           |
| 1.9 X          | X 2.4         |
| 7' out + 0.9 ✓ | + 0.7 out 0.7 |

5+20 B

|                |               |
|----------------|---------------|
| 173.92         | 173.32        |
| 10.8           | 11.4          |
| 9.6 X          | X 10.3        |
| 7' out + 1.7 ✓ | + 1.1 out 1.1 |

5+13<sup>22</sup> EC.

|                |               |
|----------------|---------------|
| 176.31         | 175.61        |
| 8.4            | 9.1           |
| 7.1 X          | X 7.9         |
| 8' out + 1.3 ✓ | + 1.2 out 1.2 |

4+80 B

|                |               |
|----------------|---------------|
| 173.92         | 173.32        |
| 10.8           | 11.4          |
| 9.6 X          | X 10.3        |
| 7' out + 1.7 ✓ | + 1.1 out 1.1 |

4+40 B

|                |               |
|----------------|---------------|
| 176.31         | 175.61        |
| 8.4            | 9.1           |
| 7.1 X          | X 7.9         |
| 8' out + 1.3 ✓ | + 1.2 out 1.2 |

culvert 55  
π 158.15

6-31

8+89 153.45  
4.70  
0.0

5-14.6

8+80

3-58.2

Δ = 19-424

Γ = 900

Υ = 156.27

Λ = 309.45

2-41.8

1-25.4

0-09

AK 18' XX 18' AP 30  
π 167.01  
Culvert  
6+80 162.80  
4.21  
8' curb .47  
ob. 3.54

153.37  
3.64  
1.7  
2.97

6-26

π 174.37  
1.54  
172.83  
BM

5-48

4-50.6

19' 0 30 AP 11  
5+13.82

Change

L+

R+

change

Def Ls.

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56

133.54

140.30

129.20

145.06

9-18.5

14+20

126.84

127.20

128.84

126.84

7-01

$\Delta = 29.00$   
 $R = 500'$   
 $T = 129.31'$   
 $L = 253.07'$

6.7  
 6.1  
 +0.6

13.10  
 12.9  
 +0.2

16.2  
 11.1  
 +5.1

13+80

129.32

129.60

131.32

131.32

4-48.5

4.2  
 3.8  
 +0.4

10.70  
 10.5  
 +0.2

13.7  
 4.2  
 +9.5

13+40B

145.06

132.00

134.00

133.8

2-26

13.3  
 12.6  
 +0.7

8.30  
 7.9  
 +0.4

11.3  
 6.0  
 +5.3

13+00B

134.2

134.95

TP. 140.00

136.15

136.0

0-08.5

10.9  
 10.4  
 +0.5

6.0  
 5.5  
 +0.5

9.1  
 7.0  
 +2.1

12+00B

136.75

136.85

137.90

137.8



2.4V  
 8.3  
 8.0  
 +0.3

3.5  
 3.2  
 +0.3

12.748  
 12.82  
 140.30  
 140.30  
 +0.00

12+57.80

139.0

139.10

139.50

139.4

12+57.07

6.1  
 5.1  
 +1.0

12.1  
 11.2  
 +0.9

5.7  
 1.7  
 +4.0

11+80B

141.00

141.00

141.05

141.05

BM 150.52  
 75+27  
 P.C. Tie  
 10+44.76 NE of 141.14  
 14.6.80  
 7.45  
 6.80  
 0.65

10.2  
 8.4  
 +1.8

10.2  
 8.4  
 +1.8

21.15  
 16.0  
 +5.2 out 9.2

11+40B

142.70

142.70

142.70

142.70

10+35.76 SE of 141.14  
 149.23  
 7.04  
 6.47  
 0.57

8.5  
 5.9  
 +2.6

8.5  
 5.9  
 +2.6

17.5  
 4.3  
 +13.2 out 15.2

11+00B

144.26

144.26

144.35

144.35

9-51

7.0  
 3.7  
 +3.3

7.0  
 3.7  
 +3.3

17.7  
 4.3  
 +13.4 out 13.6

10+60B

145.82

145.82

146.10

146.10

9-42

5.4  
 2.0  
 +3.4

5.4  
 2.0  
 +3.4

16.1  
 5.8  
 +10.3 out 10.3

10+24.76 EC

147.38

147.38

147.95

147.95

8-25.6

4.76  
 3.8  
 0.2  
 +2.0

1.88  
 14.3  
 7.1  
 +7.2 out 7.2

14.3  
 7.1  
 +7.2 out 7.2

10+20B

148.95

148.95

149.75

149.75

7-09.2

13.3  
 11.4  
 +1.9

13.3  
 11.4  
 +1.9

12.5  
 3.5  
 +9.0 out 9.0

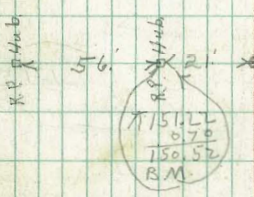
9+80B

150.50

150.50

151.40

151.40



11.7  
 9.7  
 +2.0

11.7  
 9.7  
 +2.0

10.8  
 2.8  
 +8.0 8.0 out.

9+40B

151.7

151.7

151.40

151.40

9+20

151.7

151.7

151.40

151.40

change

Lt.

Finish stakes Page 37

Rt

change

π 104.31

π 104.31

18+80.83

-100.25

~~100.20~~

~~103.00~~

102.5

31.96  
E.C. 18+43.09  
3.04

4.0  
2.6  
+1.4

104.31  
6.43  
97.88  
-11.12

out 0.2  
1.8  
2.0  
-0.2

18+40.8

101.3

~~102.35~~

~~105.05~~

104.2

change to 110

3.9  
0.1  
+2.1

π 109.00  
+0.70  
108.30

out 0.2  
0.1  
+0.2

18+00.8

π 109.00

102.9

π 109.00

π 109.00

6.1  
3.7  
+2.4

out 0.5  
106.4  
2.6  
2.1  
40.5

17+60.83

104.84

105.8

109.80

108.8

4.2  
1.7  
+2.5

10.0  
8.4  
+1.6

out 1.4  
6.0  
6.4  
-0.4

out 0.5  
120.7  
11.9  
11.9  
0.0

17+40

120.72

106.00

111.0

110.00

14.7  
12.5  
+2.2

out 1.6  
8.8  
7.5  
+1.3

out 1.1  
4.8  
5.5  
-0.7

out 0.2  
10.7  
10.5  
+0.2

17+00

108.48

109.4

113.4

112.48

12.2  
10.3  
+1.9

10.0  
6.4  
5.4  
+1.60

out 1.2  
2.4  
3.2  
-0.8

out 0.5  
8.2  
8.2  
0.0

16+60

110.98

111.40

115.80

114.93

9.7  
7.7  
+2.0

4.0  
2.7  
+1.3

out 1.5  
0.0  
1.0  
-1.0

out 0.5  
5.8  
5.5  
+0.3

16+20.8

113.75

114.40

117.75

117.10

7.0  
5.2  
+1.8

13.0  
13.7  
12.5  
+1.2

out 1.0  
10.4  
9.4  
+1.0

out 0.5  
3.6  
7.8  
+1.8

15+80.8

116.86

117.45

119.50

119.05

8.64  
B.C.H. 15+71.36

3.9  
3.1  
+0.8

10.7  
10.6  
+0.1

13M.  
128.16  
-8.17  
119.93 BM  
49.44 R.P.  
Sta 15+10.63 EC

out 0.5  
14.5  
7.7  
+6.8

out 0.5  
14.5  
7.7  
+6.8

15+40.8

119.85

120.20

121.55

120.9

0.9  
1.0  
-0.1

7.9  
8.4  
-0.5

out 0.7  
12.6  
2.9  
+9.7

out 0.7  
12.6  
2.9  
+9.7

EC. 15+10.63

π 133.54

127.35

123.85

145.06

11.2  
11.8  
-0.1

5.5  
5.9  
-0.4

108.36  
-12.42  
π 120.72  
+0.01  
120.71  
-12.83  
π 133.54  
+1.15  
132.39  
-12.67  
π 145.06

out 1.2  
21.8  
8.6  
+13.2

out 1.2  
21.8  
8.6  
+13.2

14+60.8

124.40

124.85

126.55

126.2

9.1  
8.5  
+0.6

3.3  
3.1  
+0.2

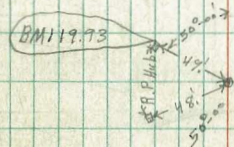
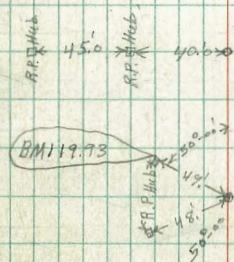
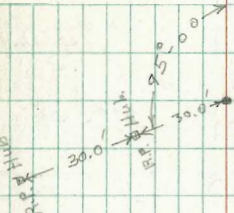
out 0.5  
18.9  
3.3  
+15.6

out 0.5  
18.9  
3.3  
+15.6

Def. Ls.

|           |       |
|-----------|-------|
| 45°-47'   | 2+84  |
| 45°-16.4' | 37.08 |
| 38°-32'   | 37.08 |
| 31°-47.7' | 18.58 |
| 28°-25.6' | 37.08 |
| 21°-41.2' | 37.08 |
| 14°-56.8' | 37.08 |
| 8°-12.4'  | ✓     |
| 1°-28'    | 8.08  |
| 14°-30'   | 10.3  |
| 13°-53.5' | ✓     |
| 11°-36'   | ✓     |

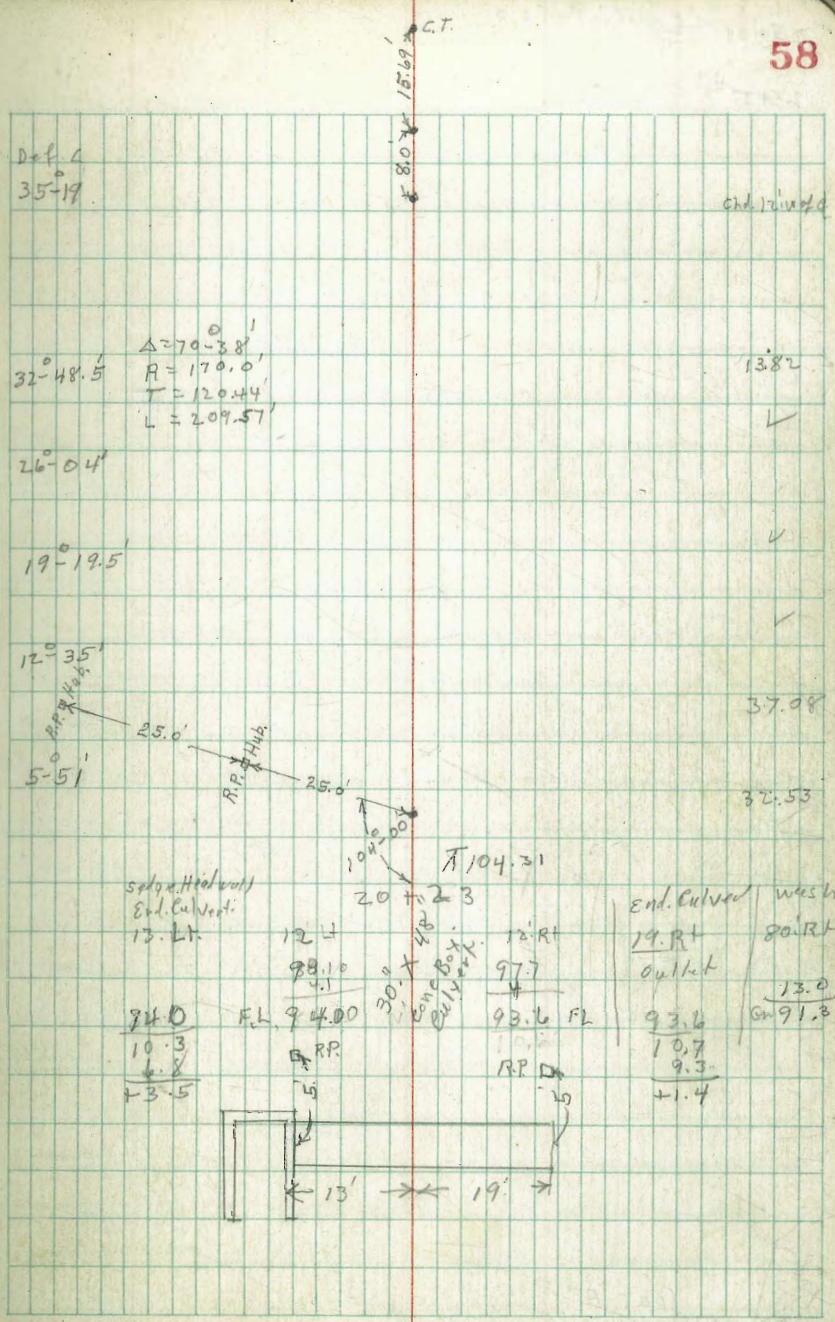
Δ=91.84  
R=170  
T=174.71  
L=271.68



23+18.57 B.C.R.T c.t. E "B" Line Curve R.T. A. Line Tan  
 15.49 Grade change  
 23+02.88 91.65 c.T. E R.P. 22nd Conc Ford 91.65  
 22+74.88 E.C.

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|               |       |              |         |
|---------------|-------|--------------|---------|
| 14.88         |       | $\pi/101.10$ |         |
| 22+80         | 92.60 |              | 92.2    |
|               | 8.5   |              | 8.9     |
|               | 10.3  | 7 out.       | 7.2     |
|               | -1.8  |              | -0.3    |
| 22+40         | 94.25 |              | 92.7    |
|               | 6.9   |              | 8.4     |
|               | 7.7   | 10 out.      | 9.1     |
|               | -2.8  |              | -0.7    |
| 22+00         | 95.65 |              | 93.35   |
|               | 6.5   |              | 7.8     |
|               | 7.2   | 10 out.      | 8.6     |
|               | -0.7  |              | -0.8    |
| 21+60         | 96.60 |              | 94.2    |
|               | 4.5   |              | 6.7     |
|               | 5.0   | 10 out.      | 8.1     |
|               | -0.9  |              | -1.2    |
| 21+20         | 97.25 | $\pi/104.31$ | 95.10   |
| 34.69         | 7.0   | Reslake      | 6.0     |
| 20+85         | 8.0   |              | 7.4     |
|               | 11.0  |              | -1.4    |
|               | -1.0  |              | 10 out. |
| 20+80 B       | 97.6  |              | 96.15   |
|               | 6.7   |              | 8.7     |
|               | 7.3   |              | -1.6    |
|               | -0.6  |              |         |
| 20+40         | 97.75 |              | 97.25   |
|               | 6.6   |              | 7.0     |
|               | 6.7   |              | 9.5     |
|               | -0.3  |              | -2.5    |
| End out 20+23 |       |              |         |
| 20+00 B       | 98.27 |              | 96.27   |
|               | 6.0   |              | 5.8     |
|               | 6.3   |              | 8.0     |
|               | -0.3  |              | -2.2    |
| 19+60 B       | 98.88 |              | 99.72   |
|               | 5.4   |              | 4.6     |
|               | 5.4   |              | 4.9     |
|               | 0.0   |              | -0.3    |
| 19+20 B       | 99.52 |              | 101.08  |
|               | 4.8   |              | 3.2     |
|               | 4.1   |              | 3.8     |
|               | +0.7  |              | -0.6    |



25+39<sup>49</sup> E Nail in Pav R.P.

25+37<sup>49</sup> = E. Pav

220.92

23+18<sup>57</sup> (P.O.T. "A"  
C.C. Pt. "B")

|                        | LT     | RT    |
|------------------------|--------|-------|
| 17+60                  | 105.8  | 109.8 |
|                        | 14.3   | 10.3  |
|                        | 12.7   | 11.2  |
|                        | +1.6   | -0.9  |
| 17+40                  | 107.0  | 111.0 |
|                        | 13.1   | 9.1   |
|                        | 11.8   | 9.9   |
|                        | +1.3   | -0.8  |
| 17+00                  | 109.4  | 113.4 |
|                        | 10.7   | 6.7   |
|                        | 9.6    | 7.5   |
|                        | +1.1   | -0.8  |
| 16+60                  | 111.8  | 115.8 |
|                        | 8.3    | 4.3   |
|                        | 7.1    | 4.8   |
|                        | +1.2   | -0.5  |
| 16+20                  | 114.4  | 117.8 |
|                        | 5.7    | 2.3   |
|                        | 4.5    | 1.2   |
|                        | +1.2   | +1.1  |
| 15+80                  | 117.5  | 119.5 |
|                        | 2.6    | 13.2  |
|                        | 2.5    | 6.7   |
|                        | +0.1   | +6.5  |
| +21 <sup>36</sup> BCLT |        |       |
| 15+40                  | 120.20 | 121.6 |
|                        | 12.5   | 23.0  |
|                        | 13.0   | 14.0  |
|                        | -0.5   | +9.0  |
| +10 <sup>43</sup> EC   |        |       |
| 15+00                  | 122.6  | 123.9 |
|                        | 10.1   | 20.7  |
|                        | 10.5   | 8.2   |
|                        | -0.4   | +12.5 |
| 14+60                  | 124.9  | 126.6 |
|                        | 7.8    | 18.0  |
|                        | 7.7    | 2.7   |
|                        | +0.1   | 15.3  |
| 14+20                  | 127.2  | 129.2 |
|                        | 5.5    | 15.4  |
|                        | 5.3    | 0.5   |
|                        | +0.2   | 14.9  |
| 13+80                  | 129.6  | 131.6 |
|                        | 3.1    | 13.0  |
|                        | 2.9    | 3.8   |
|                        | +0.2   | +9.2  |
| 13+40                  | 132.0  | 134.0 |
|                        | 12.6   | 10.6  |
|                        | 12.2   | 5.5   |
|                        | +0.4   | +5.1  |
| 13+00                  | 134.4  | 136.2 |
|                        | 12.0   | 8.4   |
|                        | 11.6   | 6.5   |
|                        | +0.4   | +1.9  |

Headwall Grades  
 13+20  
 X 144.1  
 135.0  
 ✓ 9.6  
 13+10  
 X 144.6  
 135.6  
 ✓ 9.0

|                         | LT    | RT                 |
|-------------------------|-------|--------------------|
| 22+80                   | 92.6  | 92.2               |
| 22+40                   | 94.25 | 92.7               |
| 22+00                   | 95.65 | 93.35              |
| 21+60                   | 96.6  | 94.7               |
| 21+20                   | 97.4  | 95.3 <sup>2</sup>  |
| +85 <sup>21</sup> BC RT |       |                    |
| 20+80                   | 98.1  | 96.3 <sup>2</sup>  |
| 20+40                   | 98.7  | 97.4 <sup>1</sup>  |
| +123 culvert            |       |                    |
| 20+00                   | 99.2  | 98.6 <sup>1</sup>  |
| 19+60                   | 99.90 | 99.90 <sup>2</sup> |
| 19+20                   | 100.5 | 101.4 <sup>1</sup> |
| 18+80                   | 101.2 | 103.0              |
| +43 <sup>24</sup> EC    |       |                    |
| 18+40                   | 102.3 | 105.0              |
| 18+00                   | 103.9 | 107.4              |

Headwall Grades  
 13+20  
 X 144.1  
 135.0  
 ✓ 9.6  
 13+10  
 X 144.6  
 135.6  
 ✓ 9.0

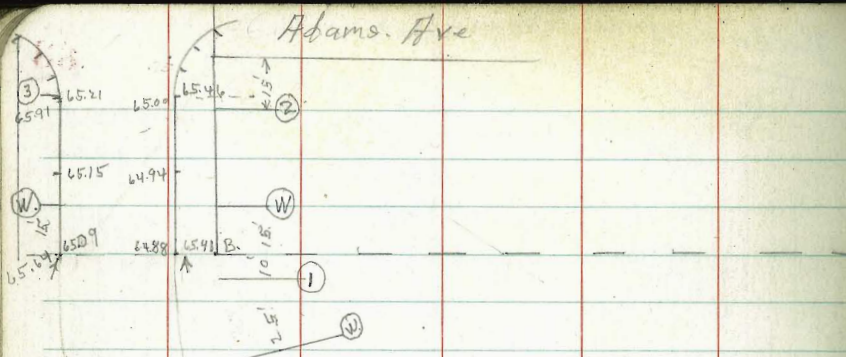
A table with 6 columns and 20 rows. The columns are defined by vertical red lines, and the rows are defined by horizontal blue lines. The table is currently empty.

A table with 10 columns and 20 rows. The columns are defined by vertical green lines, and the rows are defined by horizontal blue lines. The table is currently empty.

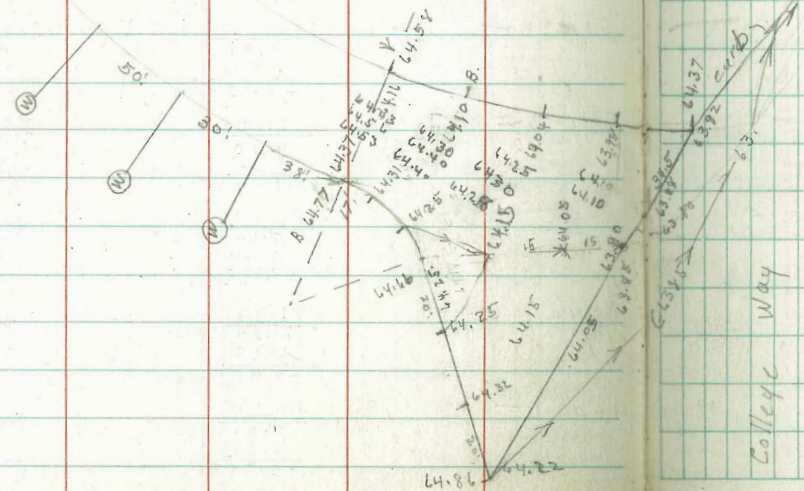


|         |                                  |                                 |
|---------|----------------------------------|---------------------------------|
|         | $\leftarrow 7387.67 \rightarrow$ |                                 |
| 3+80 B- | 80.34<br>7.33<br>6.66<br>+0.67   | 80.54<br>7.13<br>6.76<br>+0.37  |
| 3+60 B- | 80.09<br>7.58<br>6.98<br>+0.66   | 80.29<br>7.38<br>6.92<br>+0.46  |
| 3+20    | 79.67<br>3.79<br>3.49<br>+0.30   | 79.87<br>7.80<br>7.28<br>+0.52  |
| 2+80    | 79.25<br>4.21<br>4.14<br>+0.07   | 79.45<br>4.01<br>3.01<br>+1.00  |
| 2+40    | 78.83<br>4.63<br>3.43<br>+1.00   | 79.03<br>4.43<br>3.73<br>0.76   |
| 2+00    | 78.40<br>5.06<br>4.54<br>+0.52   | 78.60<br>4.86<br>4.42<br>+0.44  |
| 1+60    | 77.98<br>5.48<br>3.48<br>+2.00   | 78.18<br>5.28<br>5.29<br>6.0    |
| 1+20    | 77.55<br>5.91<br>4.71<br>+1.00   | 77.75<br>5.71<br>5.08<br>+0.63  |
| 0+80    | 77.13<br>6.33<br>5.97<br>+0.36   | 77.38<br>6.13<br>6.24<br>-0.11  |
| 0+40    | 76.71<br>6.75<br>6.77<br>-0.02   | 76.91<br>6.55<br>6.41<br>+0.14  |
| 0+20 B- | 76.50<br>6.46<br>6.11<br>+0.39   | 76.70<br>6.76<br>6.54<br>+0.22  |
| 0+00    | 374.25<br>7.21                   | 376.48<br>6.98                  |
| BM      | 9.21 383.46                      | 374.25 S.W. 33rd +<br>El. Cajon |

|                      |                                  |                                |
|----------------------|----------------------------------|--------------------------------|
|                      | $\leftarrow 7387.67 \rightarrow$ |                                |
| 6+07 S. Mado         | 79.93<br>7.74                    | 79.97<br>7.70                  |
| 5+80 B-              | 81.41<br>6.26<br>5.14<br>+1.12   | 81.52<br>6.15<br>4.73<br>+1.42 |
| 5+40 B-              | 82.36<br>5.31<br>4.88<br>+0.43   | 82.52<br>5.15<br>4.25<br>+0.90 |
| 5+00 B-              | 82.80<br>4.87<br>4.72<br>+0.15   | 82.99<br>4.68<br>4.60<br>+0.08 |
| 5+20 B- Lowered 0.02 | 82.69<br>4.98<br>3.98<br>+1.00   | 82.89<br>4.79<br>4.71<br>+0.07 |
| 4+80                 | 82.01<br>5.06<br>5.44<br>+0.22   | 82.21<br>5.46<br>4.23<br>+1.03 |
| 4+40                 | 81.33<br>6.34<br>6.15<br>-0.31   | 81.53<br>6.14<br>6.35<br>-0.21 |
| 4+00 B-              | 80.65<br>7.02<br>6.58<br>+0.44   | 80.85<br>6.82<br>6.52<br>+0.36 |



Divide 12 parts into 2 groups  
 Rise 0.08 per part  
 Divide 12 parts into 18 parts  
 Rise 0.06 per part



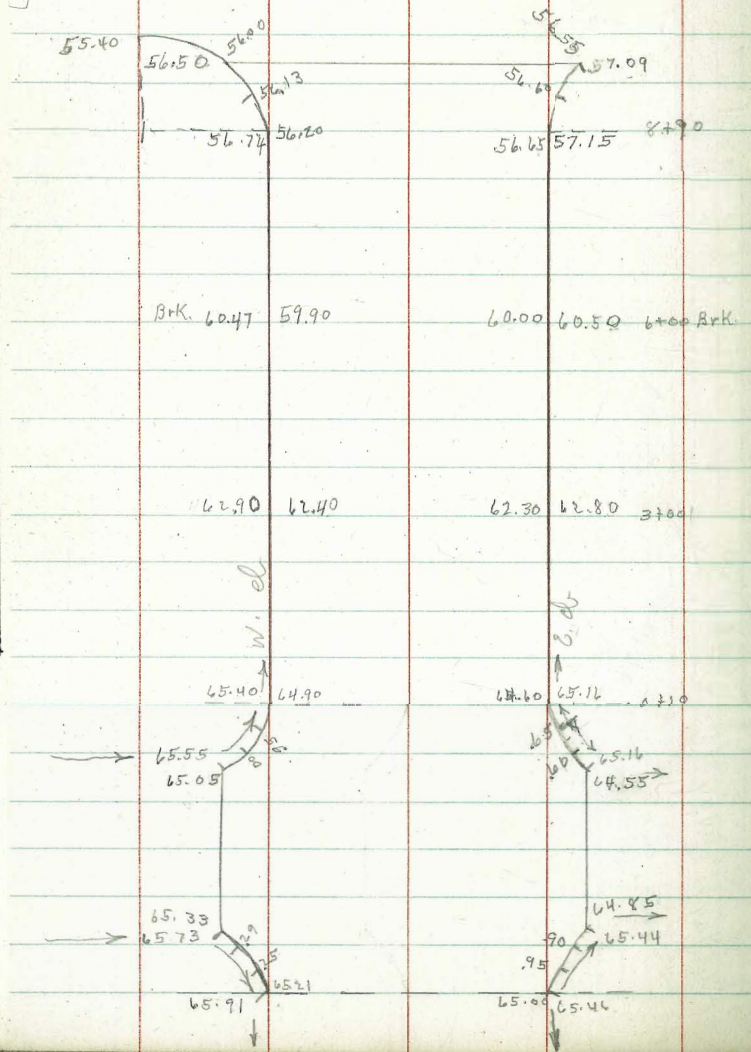
465.27 B.M. X.W. cov. El. College

|               |
|---------------|
| 4.48          |
| <u>469.75</u> |
| 4.81          |
| 464.94        |
| 5.41          |
| <u>470.35</u> |
| 5.84          |
| 464.51        |
| 3.20          |
| <u>467.71</u> |

Sewer Laterals.

| ①            | ②            | ③            |
|--------------|--------------|--------------|
| 460.00       | 470.35       | 458.70       |
| <u>10.35</u> | <u>10.35</u> | <u>11.65</u> |
| 4.05         | 4.25         | 3.82         |
| <u>16.05</u> | <u>16.10</u> | <u>17.83</u> |

Sewer Laterals



| West  |        | East  |        |
|-------|--------|-------|--------|
| 16x40 | 454.20 | 17x40 | 467.71 |
|       | 13.5   |       | 7.42   |
|       | 6.4    |       | 460.29 |
|       | +7.1   |       | 3.15   |
|       |        |       | 463.44 |
| 15x40 | 454.50 | 22x40 | 453.00 |
|       | 13.2   |       | 10.4   |
|       | 6.7    |       | 3.6    |
|       | +6.5   |       | 6.8    |
| 14x90 | 454.90 | 20x40 | 453.20 |
|       | 12.8   |       | 10.2   |
|       | 6.5    |       | 3.8    |
|       | +6.3   |       | +7.4   |
| 13x40 | 455.20 | 19x90 | 453.8  |
|       | 12.5   |       | 9.6    |
|       | 5.9    |       | 2.8    |
|       | +6.6   |       | +6.8   |
| 10x90 | 456.30 | 12x90 | 457.00 |
|       | 11.4   |       | 10.7   |
|       | 5.0    |       | 5.1    |
|       | +6.4   |       | +5.6   |
| 7x40  | 456.60 | 11x40 | 457.00 |
|       | 11.1   |       | 10.7   |
|       | 3.3    |       | 5.9    |
|       | +7.8   |       | +4.8   |
| 6x40  | 457.30 | 5x90  | 457.70 |
|       | 10.41  |       | 10.00  |
|       | 2.05   |       | 1.70   |
|       | +8.35  |       | +8.30  |
| 5x90  | 457.70 | 9x40  | 458.00 |
|       | 10.00  |       | 9.7    |
|       | 1.70   |       | 4.8    |
|       | +8.30  |       | +4.9   |
| 4x40  | 458.00 | 8x40  | 458.00 |
|       | 9.71   |       | 9.7    |
|       | 1.45   |       | 4.2    |
|       | +8.26  |       | +5.5   |
|       |        | 18x90 | 453.5  |
|       |        |       | 10.0   |
|       |        |       | 3.7    |
|       |        |       | +6.3   |
|       |        | 17x40 | 453.80 |
|       |        |       | 9.6    |
|       |        |       | 3.1    |
|       |        |       | +6.5   |

300.

Grade  
4' below  
Grade

Indexed.

82

W. Line 38<sup>th</sup>

311.5

3+80 W. Line 39<sup>th</sup>

3+30

3+00 E. Line 39<sup>th</sup>

13.1

319.6

311.5

+8.1

2+25

6.45

326.1

316.2

+9.9

1+50 Brk

5.3

327.4

321.0

+6.4

1+00

0+50

0+00 = W. Line 39<sup>th</sup>

4.6

328.1

323.7

+4.4

E. Line 40<sup>th</sup>

5.0

327.7

323.7

+4.0

B.M.

5.15

332.68

327.53

S.W. 40<sup>th</sup>  
+ Dwight

Indexed



| 11-                    | Chollas Valley Home Ave | Sewer | W.P.A |                                    |
|------------------------|-------------------------|-------|-------|------------------------------------|
| B.M. 13P               | 5.81                    | 57.68 | 51.87 | N.W 35 <sup>th</sup> & Federal Blk |
| M.H                    | 88 N. of Federal        |       | 51.81 | Top                                |
| ± 35 <sup>th</sup> St. |                         |       | 39.40 | FL                                 |
| M.H 2                  |                         |       | 36.84 |                                    |
|                        |                         | 57.68 |       | Grade                              |
| 0-1.18 M.H #7          |                         | 6.68  | 51.00 | 39.48                              |
| 0+40                   |                         | 5.72  | 51.96 | 39.82                              |
| 0+80                   |                         | 5.03  | 52.65 | 40.16                              |
| 1+20                   |                         | 4.21  | 53.47 | 40.50                              |
| 1+64 End. C.I. Pipe    |                         | 3.65  | 54.03 | 40.87                              |
| 2+04                   |                         | 15.22 | 42.46 | 41.20                              |
| 2+44                   |                         | 14.03 | 43.25 | 41.54                              |
| 2+63 P.E               | Def ←                   |       |       |                                    |
| 2+84 End. C.I. Pipe    | 2-12.4                  | 2.95  | 54.73 | 41.88                              |
| 3+15                   | 5-28                    | 3.28  | 54.40 | 42.14                              |
| 3+46                   | 8-43.4                  | 3.16  | 54.52 | 42.40                              |
| 3+77                   | 11-59.3                 | 2.89  | 54.79 | 42.66                              |
| 4+00 M.H #2            |                         | 2.74  | 54.94 | 42.84                              |
| 4+08 P.E.              | 15-15                   |       |       |                                    |
| 4+50                   |                         | 2.42  | 55.26 | 43.29                              |
| 5+00 T.P.              | 6.34                    | 62.01 | 2.01  | 55.67                              |
| +50                    |                         | 6.10  | 55.91 | 44.19                              |
| 6+00                   |                         | 5.90  | 56.11 | 44.64                              |
| 700 <sup>0</sup> P.E.  |                         | 5.69  | 56.32 | 45.09                              |
| +50                    |                         | 5.50  | 56.51 | 45.54                              |
| 7+00                   |                         | 5.21  | 56.80 | 45.99                              |
| +50                    |                         | 4.87  | 57.14 | 46.44                              |
| +91.83 E.C.            |                         |       |       |                                    |
| 8+00 M.H.3             |                         |       |       |                                    |

|          |
|----------|
| +11.52 ✓ |
| +12.74 ✓ |
| +12.49 ✓ |
| +12.97 ✓ |
| +13.16 ✓ |
| +1.26 ✓  |
| +1.71 ✓  |
| +12.85 ✓ |
| +12.26 ✓ |
| +12.12 ✓ |
| +12.13 ✓ |
| +12.10 ✓ |
| +11.97 ✓ |
| +11.93 ✓ |
| +11.72 ✓ |
| +11.47 ✓ |
| +11.23 ✓ |
| +10.97 ✓ |
| +10.81 ✓ |
| +10.70 ✓ |

|          |           |       |      |       |               |
|----------|-----------|-------|------|-------|---------------|
| 8+50     |           |       | 4.64 | 57.37 | 46.89<br>0.45 |
| 9+00     |           |       | 4.23 | 57.78 | 47.34         |
| +50      |           |       | 3.93 | 58.08 | 47.79         |
| 10+00    |           |       | 3.56 | 58.45 | 48.24         |
| +50      |           |       | 3.23 | 58.78 | 48.69         |
| 11+00    |           |       | 2.82 | 59.19 | 49.14<br>0.36 |
| +40 X P. | 7.11      | 66.52 | 2.60 | 59.41 | 49.50         |
| +80      | M.H. #4   |       | 6.85 | 59.67 | 49.86<br>0.45 |
| 12+30    |           |       | 6.44 | 60.08 | 50.31         |
| +80      |           |       | 6.13 | 60.39 | 50.76         |
| 13+30    |           |       | 5.90 | 60.62 | 51.21         |
| +80      |           |       | 5.70 | 60.82 | 51.66         |
| 14+30    |           |       | 5.55 | 60.97 | 52.11         |
| +63.38   | R.C.      |       |      |       |               |
| +80      |           |       | 5.48 | 61.04 | 52.56         |
| 15+30    |           |       | 5.11 | 61.41 | 53.01         |
| +80      | M.H. #5   |       | 4.78 | 61.74 | 53.46<br>0.45 |
| 16+30    |           |       | 4.51 | 62.01 | 53.91         |
| +55.13   |           |       |      |       |               |
| +80      |           |       | 4.00 | 62.52 | 54.36         |
| 17+30    |           |       | 3.43 | 63.09 | 54.81         |
| +80      |           |       | 2.93 | 63.59 | 55.26         |
| 18+30    |           |       | 2.51 | 64.01 | 55.71         |
| +80      | T.P. 8.23 | 72.74 | 2.01 | 64.51 | 56.16         |
| 19+30    |           |       | 7.78 | 64.96 | 56.61         |
| 19+80    | M.H. #6   |       | 7.05 | 65.69 | 57.06         |
| 20+30    |           |       | 6.47 | 66.27 | 57.51         |
| +80      |           |       | 5.83 | 66.91 | 57.96         |

|          |
|----------|
| +10.48 ✓ |
| +10.44 ✓ |
| +10.27 ✓ |
| +10.21 ✓ |
| +10.09 ✓ |
| +10.05 ✓ |
| +9.91 ✓  |
| +9.81 ✓  |
| +9.77 ✓  |
| +9.63 ✓  |
| +9.41 ✓  |
| +9.16 ✓  |
| +8.86 ✓  |
| +8.48 ✓  |
| +8.40 ✓  |
| +8.28 ✓  |
| +8.10 ✓  |
| +8.16 ✓  |
| +8.28 ✓  |
| +8.33 ✓  |
| +8.30 ✓  |
| +8.35 ✓  |
| +8.35 ✓  |
| +8.63 ✓  |
| +8.76 ✓  |
| +8.95 ✓  |

|                     |                 |               |       |       |                |
|---------------------|-----------------|---------------|-------|-------|----------------|
| 21+30               |                 |               | 5.16  | 67.58 | 58.41          |
| +80                 |                 |               | 4.48  | 68.26 | 58.86          |
| 22+30               |                 |               | 3.98  | 68.76 | 59.31          |
| +80                 |                 |               | 3.50  | 69.24 | 59.76          |
| 23+30               |                 |               | 3.11  | 69.63 | 60.21          |
| +78 <sup>2</sup>    | M.H. 7 L        | H-50 Rt       | 2.56  | 70.18 | 60.65          |
| T.P.                | 7.32            | 77.50         | 2.56  | 70.18 |                |
| 24+30               |                 |               | 6.77  | 70.73 | 61.10          |
| +80                 |                 |               | 6.03  | 71.47 | 61.55          |
| 25+30               |                 |               | 5.42  | 72.08 | 62.00          |
| +80                 |                 |               | 4.90  | 72.60 | 62.45          |
| 26+30               |                 |               | 4.36  | 73.14 | 62.90          |
| +80                 |                 |               | 3.88  | 73.62 | 63.35          |
| 26+96 <sup>17</sup> | A 44-43 Lt      | D.M.H. #8     | 3.70  | 73.80 | 63.51<br>63.88 |
| T.P. (C.T. & Home)  | 5.00            | 79.90         | 2.60  | 74.90 | 81.05          |
| 27+27.8             | E Pav           |               | 5.45  | 74.45 | 64.31          |
| 27+67               | beg. C.I. Pape  |               | 5.45  | 74.45 | 64.86          |
| 28+15               | Center          | "             | 12.84 | 67.06 | 65.54          |
| 28+63               | End             | "             | 6.42  | 73.48 | 66.21          |
| 29                  |                 |               | 6.57  | 73.33 | 66.73          |
| +50                 |                 |               | 6.72  | 73.18 | 67.42          |
| 30                  |                 |               | 6.34  | 73.56 | 68.12          |
| +48                 | #9 <sup>A</sup> | 1° 54' 37" Rt | 5.17  | 74.72 | 68.80          |
| 31                  |                 |               | 4.53  | 75.37 | 69.53          |
| +50                 |                 |               | 3.72  | 76.18 | 70.23          |
| 32                  |                 |               | 2.68  | 77.22 | 70.93          |
| T.P.                | 7.47            | 80.61         | 0.76  | 79.14 |                |

+9.17 ✓

+9.40 ✓

+9.45 ✓

+9.48 ✓

+9.42 ✓

+9.53 ✓

+9.63 ✓

+9.92 ✓

+10.08 ✓

+10.15 ✓

+10.24 ✓

+10.27 ✓

+10.29 ✓

+9.92 ✓

+10.14

+9.59

+1.52

+7.27

+6.60

+5.76

+5.44

+5.93

+5.82

+5.95

+6.29

72.90

500

79.90

76

79.15

7.47

86.61

|                |           |            |       |       |       |
|----------------|-----------|------------|-------|-------|-------|
| 32+50          |           |            | 880   | 77.81 | 71.63 |
| 33             |           |            | 781   | 78.80 | 72.33 |
| +50            |           |            | 2.74  | 83.87 | 73.03 |
| 34             |           |            | 4.33  | 82.28 | 73.73 |
| 34+08          | #10       | 1°54'37"LT | 4.87  | 81.74 | 73.84 |
| 34+50          |           |            | 5.59  | 81.02 | 74.43 |
| 35             |           |            | 5.29  | 81.32 | 75.13 |
| +50 - Cdn ring |           |            | 5.15  | 81.40 | 75.83 |
| 36             |           |            | 4.39  | 82.22 | 76.53 |
| +50            |           |            | 3.41  | 83.20 | 77.23 |
| 37             |           |            | 2.76  | 83.85 | 77.92 |
| T.P.           | 9.67      | 94.80      | 1.50  | 85.11 |       |
| +50            |           |            | 10.17 | 84.62 | 78.63 |
| 37+75.42       | #11       |            | 9.25  | 85.55 | 78.98 |
| 38             |           |            | 8.49  | 84.31 | 79.33 |
| +50            |           |            | 10.67 | 84.18 | 80.03 |
| 39             |           |            | 9.29  | 85.51 | 80.73 |
| +50            |           |            | 8.65  | 86.15 | 81.23 |
| 40             |           |            | 7.83  | 86.97 | 82.13 |
| +50            |           |            | 6.28  | 88.54 | 82.83 |
| 41             |           |            | 4.85  | 89.95 | 83.53 |
| 41             |           |            | 10.67 | 84.13 |       |
| BM #51         | 41742.85  | F.L.       |       | 92.63 |       |
| 43             | 9.86      | 102.49     |       | 92.35 | 84.13 |
| +43            |           | #          | 10.14 | 92.35 | 84.13 |
|                | Δ 9-13 Rt | M.H.12     |       |       |       |
| 42             |           |            | 9.56  | 92.73 | 84.80 |
| +50            |           |            | 8.60  | 93.89 | 85.40 |
| 43             |           |            | 7.43  | 95.06 | 86.00 |

|        |   |  |  |  |  |
|--------|---|--|--|--|--|
| +6.18  |   |  |  |  |  |
| +6.47  | ✓ |  |  |  |  |
| +10.84 | ✓ |  |  |  |  |
| +8.55  |   |  |  |  |  |
| +7.90  | ✓ |  |  |  |  |
| +6.59  | ✓ |  |  |  |  |
| +6.19  | ✓ |  |  |  |  |
| +5.63  | ✓ |  |  |  |  |
| +5.69  | ✓ |  |  |  |  |
| +5.97  | ✓ |  |  |  |  |
| +5.93  | ✓ |  |  |  |  |
| +6.0   | ✓ |  |  |  |  |
| +6.57  | ✓ |  |  |  |  |
| +6.98  | ✓ |  |  |  |  |
| +4.15  |   |  |  |  |  |
| +4.78  | ✓ |  |  |  |  |
| +4.72  | ✓ |  |  |  |  |
| +4.84  | ✓ |  |  |  |  |
| +5.09  | ✓ |  |  |  |  |
| +6.42  | ✓ |  |  |  |  |
| +8.22  | ✓ |  |  |  |  |
| +8.13  | ✓ |  |  |  |  |
| +8.49  | ✓ |  |  |  |  |
| +9.06  | ✓ |  |  |  |  |

86.61  
 1.50  
 85.11  
 9.29  
 94.80



|                               |                               |       |          |        |
|-------------------------------|-------------------------------|-------|----------|--------|
| 43+50                         |                               | 6.87  | 95.62    | 86.60  |
| 44                            |                               | 7.32  | 95.17 ✓  | 87.20  |
| +50                           |                               | 6.22  | 96.27    | 87.80  |
| 45                            |                               | 6.57  | 95.92 ✓  | 88.40  |
| +50                           |                               | 11.36 | 91.13 ✓  | 89.00  |
| 46                            |                               | 11.42 | 91.07 ✓  | 89.60  |
| +48 <sup>24</sup>             | 7-29-30 <sup>11</sup> M.H. 13 | 4.02  | 98.47    | 90.18  |
| TP. 2. Stab +48 <sup>24</sup> | 7.77                          | 2.54  | 99.95    |        |
| 47                            | 107.72                        | 12.32 | 95.40    | 90.80  |
| +50                           |                               | 10.37 | 97.35    | 91.40  |
| 48                            |                               | 4.28  | 103.44   | 92.00  |
| +50                           |                               | 3.93  | 103.79   | 92.60  |
| 49                            |                               | 1.85  | 105.87   | 93.20  |
| +40 <sup>06</sup>             | # Δ 6-59-30 Rt. M.H. 14.      | 1.55  | 106.17   | 93.68  |
| Stab +40 <sup>06</sup>        | TP                            | 2.00  | 105.72 ✓ |        |
| 50 +00                        | 116.00                        | 11.10 | 104.90   | 94.40  |
| +50                           |                               | 12.05 | 103.95   | 95.00  |
| 51                            |                               | 12.72 | 103.28   | 95.60  |
| +50                           |                               | 11.94 | 104.06   | 96.20  |
| 52                            |                               | 9.70  | 106.30   | 96.80  |
| +20 <sup>92</sup>             | # M.H. 15 Δ 4-14 Rt.          | 9.98  | 106.02   | 97.05  |
| +50                           |                               | 10.36 | 105.64   | 97.45  |
| 53                            |                               | 9.93  | 106.07   | 98.13  |
| +50                           |                               | 8.17  | 107.83   | 98.80  |
| 54                            |                               | 7.18  | 108.82   | 99.48  |
| +50                           |                               | 5.08  | 110.92   | 100.15 |
| 55                            |                               | 4.96  | 111.04   | 100.83 |

|          |        |
|----------|--------|
| +9.02 ✓  |        |
| +7.97 ✓  |        |
| +8.47 ✓  |        |
| +7.52 ✓  |        |
| +2.13 ✓  |        |
| +1.47 ✓  |        |
| +8.29 ✓  |        |
| +4.60 ✓  |        |
| +5.95 ✓  |        |
| +11.44 ✓ |        |
| +11.19 ✓ |        |
| +12.67 ✓ |        |
| +12.49 ✓ | 106.17 |
|          | 9.83   |
|          | 116.00 |
| +10.50 ✓ |        |
| +8.95 ✓  |        |
| +7.88 ✓  |        |
| +7.86 ✓  |        |
| +9.50 ✓  |        |
| +8.97 ✓  |        |
| +8.19 ✓  |        |
| +7.94 ✓  |        |
| +9.03 ✓  |        |
| +9.34 ✓  |        |
| +10.77 ✓ |        |
| +10.21 ✓ |        |

1.20%

1.35%

|    |                   |                    |       |               |
|----|-------------------|--------------------|-------|---------------|
|    | +50               |                    |       | 101.50        |
|    | +64 <sup>89</sup> | M.H. 16            | 2.78  | 113.22 101.69 |
| 56 |                   |                    | 1.95  | 114.05 102.16 |
|    | +50               |                    | 2.21  | 113.79 102.43 |
| 57 |                   |                    | 1.77  | 114.23 103.51 |
|    | +50               |                    | 1.96  | 114.04 104.18 |
| 58 |                   | 123.45             | 8.10  | 115.35 104.86 |
|    | +50               |                    | 7.63  | 115.82 105.54 |
| 59 | +08 <sup>86</sup> | M.H. 17            | 8.17  | 115.28 106.34 |
|    | +50               |                    | 9.59  | 113.86 106.90 |
| 60 |                   |                    | 7.72  | 115.73 107.57 |
|    | +50               |                    | 6.81  | 116.64 108.25 |
| 61 |                   |                    | 6.88  | 116.57 108.92 |
|    | +50               |                    | 5.75  | 117.70 109.60 |
| 62 |                   |                    | 5.44  | 118.01 110.27 |
|    | +52 <sup>83</sup> | M.H. 18 Δ 4-31 Rt  | 4.09  | 119.36 110.98 |
| 63 |                   |                    | 2.67  | 120.78 111.62 |
|    | +50               |                    | 2.42  | 121.93 112.29 |
| 64 |                   |                    | 1.05  | 122.40 112.97 |
|    | +50               | 131.79             | 10.79 | 121.00 113.64 |
| 65 | +84 <sup>85</sup> | M.H. 19 Δ 16-44 2+ | 11.74 | 120.05 114.12 |
| 65 |                   |                    |       | 114.32        |
|    | +50               |                    | 9.73  | 122.06 115.00 |
| 66 |                   |                    | 8.04  | 123.75 115.67 |
|    | +50               |                    | 7.95  | 123.84 116.35 |
| 67 |                   |                    | 7.75  | 124.04 117.02 |

1.35%

|  |          |      |  |        |
|--|----------|------|--|--------|
|  | +11.53 ✓ |      |  | 116.00 |
|  | +11.89 ✓ |      |  | 115.04 |
|  | +10.96 ✓ |      |  | 123.45 |
|  | +10.72 ✓ |      |  | 131.79 |
|  | +9.86 ✓  |      |  |        |
|  | +10.49 ✓ |      |  |        |
|  | +10.28 ✓ |      |  |        |
|  | +8.94 ✓  |      |  |        |
|  | +6.96 ✓  |      |  |        |
|  | +8.16 ✓  |      |  |        |
|  | +8.39 ✓  |      |  |        |
|  | +7.65 ✓  |      |  |        |
|  | +8.10 ✓  |      |  |        |
|  | +7.74 ✓  |      |  |        |
|  | +8.38 ✓  |      |  |        |
|  | +9.16 ✓  |      |  |        |
|  | +8.74 ✓  |      |  |        |
|  | +9.43 ✓  |      |  |        |
|  | +7.36 ✓  |      |  |        |
|  | +5.93 ✓  |      |  |        |
|  |          | Stub |  | 119.69 |
|  | +7.06 ✓  |      |  |        |
|  | +8.08 ✓  |      |  |        |
|  | +7.49 ✓  |      |  |        |
|  | +7.02 ✓  |      |  |        |

|    |                             |           |       |        |        |
|----|-----------------------------|-----------|-------|--------|--------|
|    |                             | 131.79    |       |        |        |
| 67 | +17 <sup>07</sup> M.H. 20 # | Δ         | 7.44  | 124.35 | 117.25 |
|    | +50                         |           | 7.58  | 124.21 | 117.70 |
| 68 |                             |           | 7.01  | 124.78 | 118.37 |
|    | +50                         |           | 6.54  | 125.25 | 119.05 |
| 69 |                             |           | 5.50  | 126.29 | 119.72 |
|    | +50 <sup>29</sup> M.H. 21 # | Δ G-41 RT | 5.04  | 126.73 | 120.40 |
| 70 |                             |           | 4.67  | 127.12 | 121.06 |
|    | +50                         |           | 4.51  | 127.28 | 121.74 |
| 71 |                             |           | 3.70  | 128.09 | 122.41 |
|    | +50                         |           | 2.08  | 129.71 | 123.09 |
|    | +76 <sup>57</sup> M.H. 22 # | Δ G-41 RT | 0.97  | 130.82 | 123.45 |
|    |                             | 141.49    |       |        |        |
| 72 |                             |           | 10.85 | 130.64 | 123.77 |
|    | +50                         |           | 9.88  | 131.61 | 124.45 |
| 73 |                             |           | 9.14  | 132.35 | 125.12 |
|    | +50                         |           | 8.64  | 132.85 | 125.80 |
| 74 |                             |           | 7.67  | 133.82 | 126.47 |
|    | +50                         |           | 7.70  | 133.79 | 127.15 |
| 75 |                             |           | 5.74  | 135.75 | 127.82 |
|    | +18 <sup>20</sup> M.H. 23 # |           | 5.04  | 136.45 | 128.06 |
|    | +50                         |           | 4.29  | 137.20 | 128.50 |
| 76 |                             |           | 3.31  | 138.18 | 129.17 |
|    | +50                         |           | 3.05  | 138.44 | 129.85 |
| 77 |                             |           | 2.94  | 138.55 | 130.52 |
|    | +50                         |           | 2.23  | 139.26 | 131.20 |
|    |                             | 152.66    |       |        |        |
| 78 |                             |           | 12.65 | 140.61 | 131.87 |
|    | +59 <sup>83</sup> M.H. 24 # |           | 10.91 | 141.75 | 132.68 |

1.35%

|       |          |             |                 |
|-------|----------|-------------|-----------------|
| +7.10 | 131.79 X | Δ stub      | 122.80          |
| + .51 | 0.97     |             |                 |
|       | 130.82   |             |                 |
|       | 10.61    |             |                 |
| +6.41 | 141.49 X |             |                 |
|       | 0.44     |             |                 |
| +6.20 | 141.05   |             |                 |
|       | 11.61    |             |                 |
|       | 152.66   |             |                 |
| +6.37 |          | Δ stub 5.90 | 125.89 = 125.89 |
| +6.33 |          |             |                 |
| +6.06 |          |             |                 |
| +5.54 |          |             |                 |
| +5.68 |          |             |                 |
| +6.62 |          |             |                 |
| +7.37 |          | Δ stub      | 129.83          |
| +6.87 |          |             |                 |
| +7.16 |          |             |                 |
| +7.23 |          |             |                 |
| +7.05 |          |             |                 |
| +7.35 |          |             |                 |
| +6.64 |          |             |                 |
| +7.93 |          |             |                 |
| +8.39 |          |             |                 |
| +8.70 |          |             |                 |
| +9.01 |          |             |                 |
| +8.59 |          |             |                 |
| +8.03 |          |             |                 |
| +8.06 |          |             |                 |
| +8.14 |          |             |                 |
| +9.07 |          |             |                 |

|                        |                       |      |        |        |
|------------------------|-----------------------|------|--------|--------|
| 79                     |                       | 9.76 | 142.90 | 133.22 |
| +50                    |                       | 7.74 | 144.92 | 133.90 |
| 80                     |                       | 2.96 | 149.70 | 134.57 |
| +50                    |                       | 1.88 | 150.78 | 135.25 |
|                        | 157.07                |      |        |        |
| 81                     |                       | 4.44 | 152.63 | 135.92 |
| +42                    | 155.60                | 3.68 | 157.92 | 136.49 |
| +72                    |                       | 6.65 | 148.95 | 136.90 |
| 82 + 01 <sup>116</sup> | M.H. #25              | 4.75 | 150.85 | 137.29 |
| +50                    | 156.15                | 5.96 | 150.19 | 137.94 |
| 83                     |                       | 5.57 | 150.58 | 138.62 |
| +50                    |                       | 5.48 | 150.67 | 139.30 |
| 84                     |                       | 6.23 | 149.92 | 139.97 |
| +50                    |                       | 8.13 | 148.02 | 140.64 |
| 85                     |                       | 7.72 | 148.43 | 141.32 |
| +43 <sup>08</sup>      | M.H. #26              | 7.30 | 148.85 | 141.90 |
| 86                     |                       | 6.30 | 149.85 | 142.67 |
| +50                    |                       | 5.89 | 150.26 | 143.34 |
| 87                     |                       | 4.45 | 151.70 | 144.02 |
| +50                    |                       | 4.76 | 151.39 | 144.69 |
| 88                     |                       | 4.12 | 152.03 | 145.37 |
| +50                    |                       | 1.98 | 154.17 | 146.04 |
| +84 <sup>20</sup>      | M.H. #27 Δ 2-46-30 ft | 2.48 | 153.67 | 146.51 |
|                        | 166.07                |      |        |        |
| 89                     |                       | 8.93 | 157.14 | 147.50 |
| +50                    |                       | 8.61 | 157.46 | 148.25 |
| 90                     |                       | 7.64 | 158.43 | 149.00 |
| +50                    |                       | 8.06 | 158.01 | 149.46 |
| +81 <sup>24</sup>      | M.H. #28 Δ 2-46-30 ft |      |        |        |

1.35%

1.50%

|          |  |        |            |
|----------|--|--------|------------|
| +9.68 ✓  | BMBP. Ely                              | 148.08 | Sewer Line |
| +11.02 ✓ | Cap Box - Cider<br>Fairmont S. of Home | 148.22 | Home Ave   |
| +15.13 ✓ |  |        |            |
| +15.53 ✓ |  |        |            |
| +16.71 ✓ |  |        |            |
| +15.43 ✓ |  |        |            |
| +12.05 ✓ | 81+57 35 30' Lt = C.T. of Home Ave     |        |            |
| +13.56 ✓ |  |        |            |
| +12.25 ✓ |  |        |            |
| +11.96 ✓ |  |        |            |
| +11.37 ✓ |  |        |            |
| +9.95 ✓  |  |        |            |
| +7.38 ✓  |  |        |            |
| +7.11 ✓  |  |        |            |
| +6.95 ✓  |  |        |            |
| +7.18 ✓  |  |        |            |
| +6.92 ✓  |  |        |            |
| +7.68 ✓  |  |        |            |
| +6.70 ✓  |  |        |            |
| +6.66 ✓  |  |        |            |
| +8.13 ✓  |  |        |            |
| +7.16 ✓  |  |        |            |
| +9.64 ✓  |  |        |            |
| +9.21 ✓  |  |        |            |
| +9.43 ✓  |  |        |            |
| +8.55 ✓  |  |        |            |

$$\begin{array}{r} 152.66 \text{ T} \\ 0.80 \\ \hline 151.86 \\ 5.21 \\ \hline 157.07 \text{ T} \\ 8.92 \\ \hline 148.08 - 148.08 \text{ BM} \\ 8.07 \\ \hline 156.15 \text{ T} \\ 0.49 \\ \hline 155.66 \\ 10.41 \\ \hline 166.07 \text{ T} \end{array}$$

$$\begin{array}{r} 14 \text{ } 07 \\ 7.53 \\ \hline 155.60 \\ 5.21 \\ \hline 150.94 \\ 157.25 \\ \hline 8.82 \end{array}$$

$$\begin{array}{r} 5.39 \\ \hline 150.85 \end{array}$$

166.07

|                  |                      |       |        |        |
|------------------|----------------------|-------|--------|--------|
| 91               |                      | 7.81  | 158.26 | 149.75 |
| +50              |                      | 6.94  | 159.13 | 150.50 |
| 92               |                      | 5.57  | 160.50 | 151.25 |
| +50              |                      | 6.82  | 159.25 | 152.00 |
| 93               |                      | 5.82  | 160.25 | 152.75 |
| +50              |                      | 3.94  | 162.13 | 153.50 |
| 94               |                      | 3.60  | 162.47 | 154.25 |
| +50              | <sup>91</sup> M.H.29 | 3.11  | 162.96 | 155.00 |
| 95               |                      | 2.14  | 163.93 | 155.75 |
| +50              | 176.46               | 11.35 | 165.11 | 156.50 |
| <sup>90</sup> 96 |                      | 10.77 | 165.69 | 157.25 |
| +50              |                      | 9.26  | 167.20 | 158.00 |
| 97               |                      | 7.17  | 169.29 | 158.75 |
| +50              |                      | 7.10  | 169.36 | 159.50 |
| 98               |                      | 6.96  | 169.50 | 160.25 |
| +20              | <sup>58</sup> M.H.30 | 5.49  | 170.97 | 160.55 |
| +50              |                      | 7.36  | 169.10 | 161.00 |
| 99               |                      | 7.89  | 168.57 | 161.75 |
| +50              |                      | 6.41  | 170.05 | 162.50 |
| 100              |                      | 5.41  | 171.05 | 163.25 |
| +50              |                      | 4.94  | 171.52 | 164.00 |
| 101              |                      | 4.13  | 172.33 | 164.75 |
| +50              |                      | 3.66  | 172.80 | 165.50 |
| +90              | <sup>25</sup> M.H.31 | 3.15  | 173.31 | 166.09 |
| 102              |                      |       |        |        |
| +50              |                      | 3.73  | 172.73 | 167.00 |

π 166.07

0.56

165.51

10.95

|          |          |
|----------|----------|
| +8.51 ✓  | π 176.46 |
| +8.63 ✓  | 0.09     |
| +9.25 ✓  | 176.38   |
| +7.25 ✓  | 9.48     |
| +7.50 ✓  | π 185.86 |
| +8.63 ✓  |          |
| +8.22 ✓  |          |
| +7.96 ✓  |          |
| +8.18 ✓  |          |
| +8.61 ✓  |          |
| +8.44 ✓  |          |
| +9.20 ✓  |          |
| +10.54 ✓ |          |
| +9.86 ✓  |          |
| +9.25 ✓  |          |
| +10.42 ✓ |          |
| +8.10 ✓  |          |
| +6.82 ✓  |          |
| +7.55 ✓  |          |
| +7.80 ✓  |          |
| +7.52 ✓  |          |
| +7.58 ✓  |          |
| +7.30 ✓  |          |
| +7.22 ✓  |          |
| +5.73 ✓  |          |

74

185.86

|                   |         |       |        |        |
|-------------------|---------|-------|--------|--------|
| 103               |         | 12.08 | 173.78 | 167.75 |
| +50               |         | 10.58 | 175.28 | 168.50 |
| 104               |         | 9.32  | 176.54 | 169.25 |
| +50               |         | 7.16  | 178.70 | 170.00 |
| 105               |         | 7.05  | 178.81 | 170.75 |
| +59 <sup>92</sup> | M.H. 32 | 6.02  | 179.84 | 171.64 |
| 106               |         | 5.80  | 180.06 | 172.25 |
| +50               |         | 5.96  | 179.90 | 173.00 |
| 107               |         | 5.80  | 180.06 | 173.75 |
| +50               |         | 4.61  | 181.25 | 174.50 |
| 108               |         | 3.33  | 182.53 | 175.25 |
| +50               | 196.19  | 11.80 | 184.39 | 176.00 |
| 109               |         | 11.68 | 184.51 | 176.74 |
| +29 <sup>59</sup> | M.H. 33 | 11.33 | 184.86 | 177.18 |
| +50               |         | 10.47 | 185.72 | 177.48 |
| 110               |         | 10.43 | 185.76 | 178.23 |
| +50               |         | 10.21 | 185.98 | 178.98 |
| 111               |         | 9.28  | 186.91 | 179.73 |
| +50               |         | 7.65  | 188.54 | 180.48 |
| 112               |         | 5.52  | 190.67 | 181.23 |
| +50               |         | 4.74  | 191.45 | 181.98 |
| +99 <sup>26</sup> | M.H. 34 | 5.68  | 190.51 | 182.73 |
| 113+50            |         | 2.83  | 193.36 | 183.50 |
| 114               |         | 2.11  | 194.08 | 184.25 |
| +50               | 204.82  | 9.23  | 195.59 | 185.00 |
| 115               |         | 10.53 | 194.29 | 185.75 |

$\pi$  185.86  
 $\frac{0.63}{185.23}$  stub sta 1400  
 $\frac{10.96}{196.19}$   
 $\frac{0.53}{195.66}$   
 $\frac{9.16}{204.82}$

+6.03 ✓  
 +6.78 ✓  
 +7.29 ✓  
 +8.70 ✓  
 +8.06 ✓  
 +8.20 ✓  
 +7.81 ✓  
 +6.90 ✓  
 +6.31 ✓  
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 +8.39 ✓  
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 +7.68 ✓  
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 +7.53 ✓  
 +7.00 ✓  
 +7.18 ✓  
 +8.06 ✓  
 +9.44 ✓  
 +9.47 ✓  
 +7.78 ✓  
 +9.86 ✓  
 +9.83 ✓  
 +10.59 ✓  
 +8.54 ✓

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204.82

1204.82

6.86

197.96

10.18

208.14

0.41

76

|        |                        |  |       |        |        |
|--------|------------------------|--|-------|--------|--------|
|        | +50                    |  | 9.73  | 195.09 | 186.50 |
|        | 116 + 03 <sup>36</sup> | M.H. 35 A 9-25-30 Rt                       | 9.84  | 194.94 | 187.29 |
|        | +50                    |  | 11.98 | 192.84 | 188.00 |
|        | 117                    |  | 10.72 | 194.10 | 188.75 |
|        | +50                    |  | 10.30 | 194.52 | 189.50 |
|        | 118                    |  | 8.08  | 196.74 | 190.25 |
|        | +50                    |  | 7.86  | 196.96 | 191.00 |
|        | 119                    |  | 7.74  | 197.08 | 191.75 |
|        | +50                    |  | 6.86  | 197.96 | 192.50 |
|        | +86 <sup>30</sup>      | M.H. 36 208.14                             | 9.13  | 199.01 | 193.04 |
|        | 120                    |  | out   |        | 193.25 |
|        | +50                    |  | 7.96  | 200.18 | 194.00 |
| 1.50 % | 121                    | Tree slope 215.97                          | 2.60  | 205.54 | 194.75 |
|        | +24                    | Top Bank                                   | 0.60  | 215.37 | 195.11 |
|        | +62                    | " "  | 2.33  | 213.64 | 195.68 |
|        | +85                    | Top Slope                                  | 12.14 | 203.83 | 196.03 |
|        | 122 + 20               |  | 13.65 | 212.32 | 196.55 |
|        | +70                    |  | 12.14 | 203.83 | 197.30 |
|        | 123 + 29               |  | 13.16 | 202.81 | 198.05 |
|        | +69 <sup>24</sup>      | M.H. 37 station change To Remove from Wash | 11.09 | 204.88 | 198.78 |
|        | 124                    |  | out   |        | 199.25 |
|        | +50                    |  | 10.37 | 205.60 | 200.00 |
|        | 125                    |  | 9.68  | 206.29 | 200.75 |
|        | +50                    |  | 7.80  | 208.17 | 201.50 |
|        | 126                    | 220.92                                     | 7.85  | 208.12 | 202.25 |
|        | +50                    |  | 11.00 | 209.92 | 203.00 |
|        | 127                    |  | 11.18 | 209.74 | 203.75 |
|        | +52 <sup>18</sup>      | M.H. 38                                    | 10.07 | 210.85 | 204.52 |

+8.59 ✓

+7.65 ✓

+4.84 ✓

+5.35 ✓

+5.02 ✓

+6.49 ✓

+5.96 ✓

+5.33 ✓

+5.46 ✓

+5.97 ✓

+6.00 ✓

+10.79 ✓

+20.26 ✓

+17.96 ✓

+7.80 ✓

+5.77 ✓

+6.53 ✓

+4.76 ✓

199.02

+5.86 ✓

+5.60 ✓

+5.54 ✓

+6.67 ✓

+5.87 ✓

+6.92 ✓

+5.99

+6.33

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208.12

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R.P.L. RT.

Cont. Gr. Book 190  
Page 2

R.P.L. RT.

R.P.L. RT.

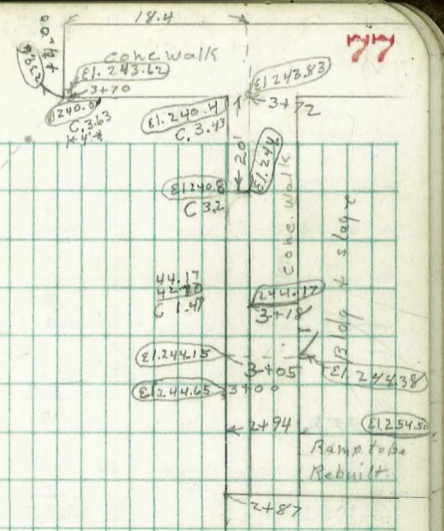
2 stub.  
210.42

Road in Za. to Bow | "B." Road.

| Station | Description  | Lowered   | ± Grade        | ±   |
|---------|--------------|---|----------------|---|
| 3+05    | E. side Door |   |                |   |
| 3+00    |              | $\begin{array}{r} 12.11 \\ 244.27 \\ 44.37 \\ \hline -0.19 \end{array}$ | 44.5           | $\begin{array}{r} 9.86 \\ 244.90 \\ 44.22 \\ \hline -0.10 \end{array}$  |
| 2+94    | W side Ramp  | $\begin{array}{r} 44.27 \\ 44.17 \\ \hline +0.10 \end{array}$           |                |   |
| 2+87    | E. side Ramp | $\begin{array}{r} 44.27 \\ 44.17 \\ \hline +0.10 \end{array}$           |                |   |
| 2+75    |              | $\begin{array}{r} 4.66 \\ 247.70 \\ 46.97 \\ \hline +0.73 \end{array}$  | 47.1           | $\begin{array}{r} 7.48 \\ 246.90 \\ 47.22 \\ \hline -0.72 \end{array}$  |
| 2+50    |              | $\begin{array}{r} 2.61 \\ 251.77 \\ 50.77 \\ \hline +1.00 \end{array}$  | 50.9           | $\begin{array}{r} 3.42 \\ 250.96 \\ 51.22 \\ \hline -0.06 \end{array}$  |
| 2+25    |              | $\begin{array}{r} 11.73 \\ 255.20 \\ 54.57 \\ \hline +0.63 \end{array}$ | 54.7           | $\begin{array}{r} 13.88 \\ 154.88 \\ 54.82 \\ \hline -0.60 \end{array}$ |
| 2+00    |              | $\begin{array}{r} 8.26 \\ 258.67 \\ 56.37 \\ \hline +0.30 \end{array}$  | 58.5           | $\begin{array}{r} 8.45 \\ 258.48 \\ 58.62 \\ \hline -0.14 \end{array}$  |
| 1+75    |              | $\begin{array}{r} 4.80 \\ 262.13 \\ 62.47 \\ \hline -0.34 \end{array}$  | 62.6           | $\begin{array}{r} 4.49 \\ 262.48 \\ 62.72 \\ \hline -0.23 \end{array}$  |
| 1+73    | 39 EC        | $\begin{array}{r} 13.21 \\ 266.73 \\ 66.57 \\ \hline +0.16 \end{array}$ | 66.7           | $\begin{array}{r} 13.48 \\ 266.46 \\ 66.82 \\ \hline -0.36 \end{array}$ |
| 1+50    |              | $\begin{array}{r} 4.04 \\ 271.94 \\ 70.67 \\ \hline +1.27 \end{array}$  | 70.8           | $\begin{array}{r} 9.66 \\ 270.28 \\ 70.92 \\ \hline -0.64 \end{array}$  |
| 1+14    | 92 BB.Lt.    | $\begin{array}{r} 5.02 \\ 274.92 \\ 74.17 \\ \hline +0.75 \end{array}$  | 74.3           | $\begin{array}{r} 6.23 \\ 273.71 \\ 74.42 \\ \hline -0.71 \end{array}$  |
| 1+00    |              | $\begin{array}{r} 2.32 \\ 279.62 \\ 76.97 \\ \hline +0.45 \end{array}$  | 77.1           | $\begin{array}{r} 2.32 \\ 277.62 \\ 77.22 \\ \hline +0.42 \end{array}$  |
| 0+97    | 34 EC        | $\begin{array}{r} 1.90 \\ 278.04 \end{array}$                           | ± Pav.<br>77.9 | $\begin{array}{r} 1.25 \\ 278.24 \end{array}$                           |
| 0+52    | BC.Rt.       |   | ± Pav.<br>76   |   |
| 0+45    |              |   | ± Pav.<br>76   |   |

P.I. 3+70.14

Indexed





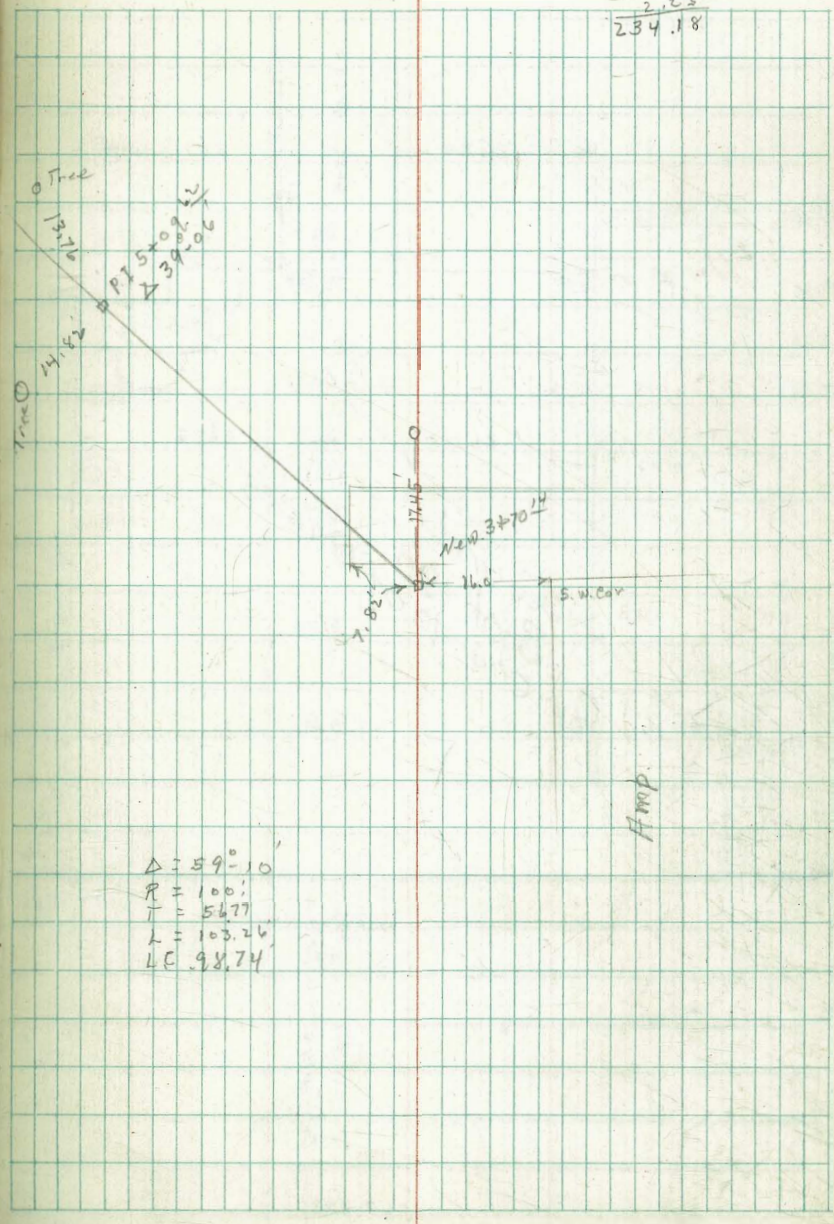
9. Lt. Stab      ± Ground      ± Grad.      9. Rt.

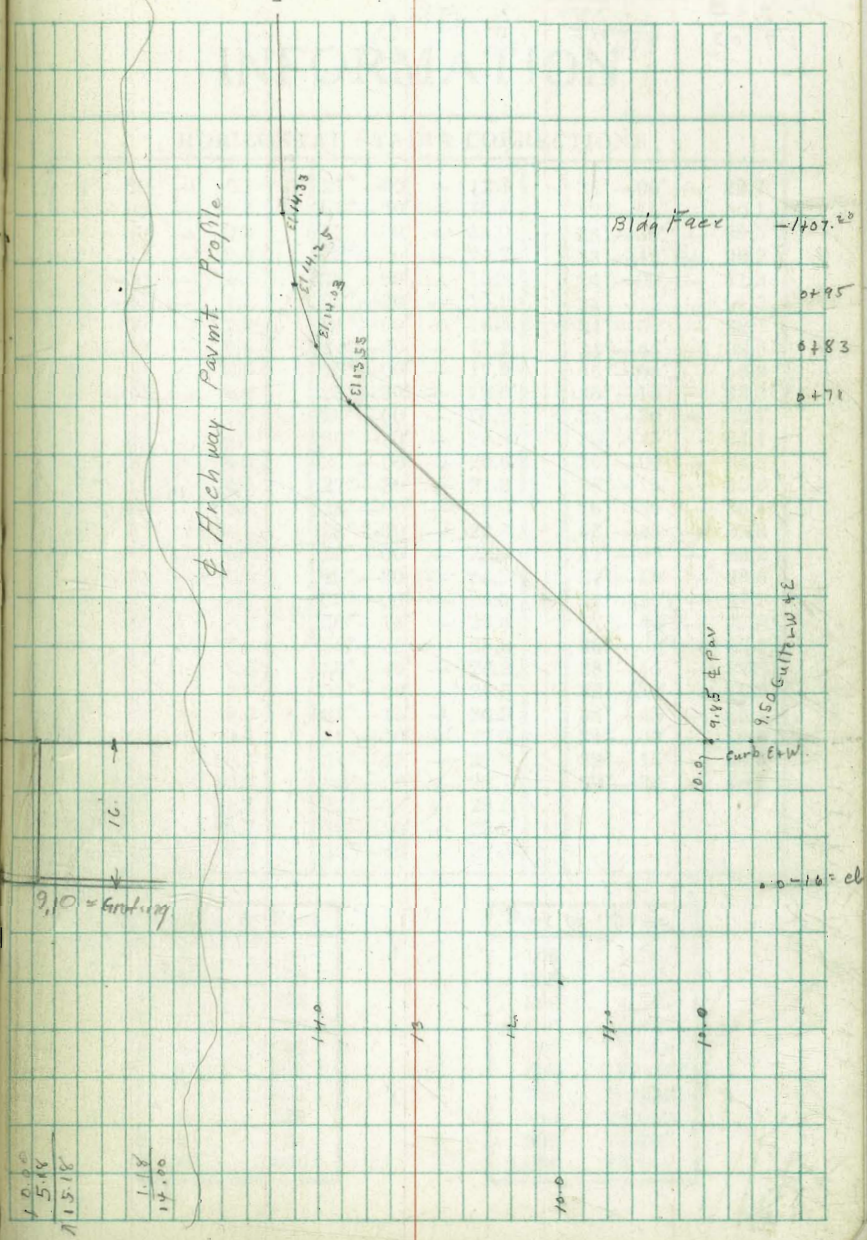
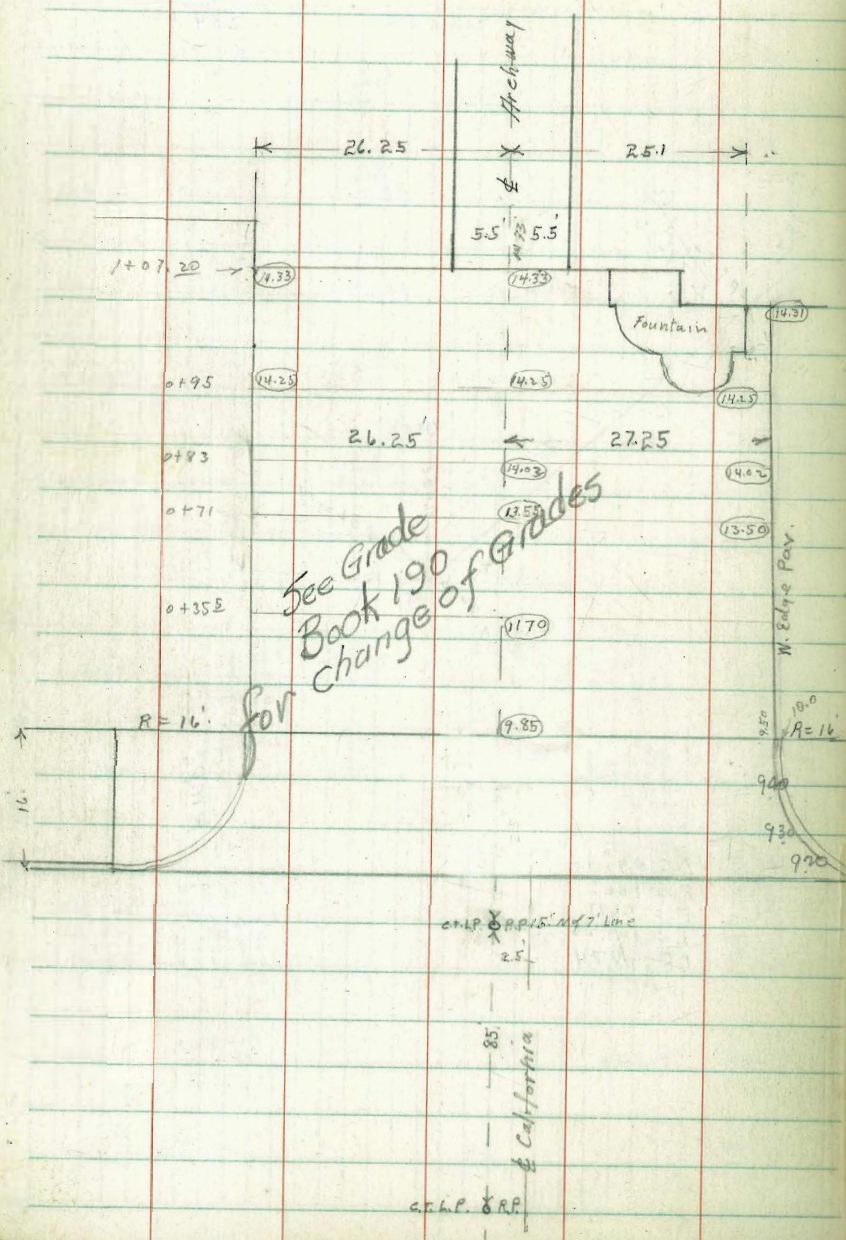
|                           |  |                      |        |   |         |
|---------------------------|--|----------------------|--------|---|---------|
|                           |  | 234.18               |        |   |         |
| 5+50                      | $\frac{12.5}{221.7}$   |                      |        |   |         |
| 5+25                      | $\frac{9.7}{224.5}$  |                      |        |   |         |
| 5+00                      | $\frac{7.0}{227.2}$  | 226.95               |        |   |         |
| 4+75                      | $\frac{4.5}{229.7}$  | 229.10               |        |   |         |
|                           |  | 244.96               |        |   |         |
| 4+50                      | $\frac{13.6}{31.4}$  | 231.25               |        |   |         |
|                           |  | 244.06               |        |   |         |
| 4+17 <sup>24</sup> EC     | $\frac{10.67}{234.29}$<br>$\frac{234.29}{237.59}$<br>$+0.70$ | $\frac{10.7}{234.3}$ | 234.07 | $\frac{9.80}{235.16}$<br>$\frac{235.16}{234.58}$<br>$+0.60$ | 29-35   |
| 4+00                      | $\frac{9.04}{235.84}$<br>$\frac{235.84}{234.18}$<br>$-1.00$  | $\frac{9.0}{236.00}$ | 235.55 | $\frac{8.08}{236.88}$<br>$\frac{236.88}{236.38}$<br>$+0.50$ | 24-38.2 |
| 3+75                      | $\frac{5.64}{239.32}$<br>$\frac{239.32}{236.60}$<br>$+2.72$  |                      | 237.70 | $\frac{5.70}{239.26}$<br>$\frac{239.26}{238.80}$<br>$+0.46$ | 17-28.5 |
| 3+70 Platform             |  |                      |        |   |         |
| 3+65 <sup>5</sup> CL      | $\frac{2.56}{242.40}$<br>$\frac{242.40}{239.00}$<br>$+3.40$  |                      | 239.85 | $\frac{3.66}{241.30}$<br>$\frac{241.30}{240.60}$<br>$+0.70$ | 10-18.8 |
| 3+50                      |  |                      |        |   |         |
| 3+25                      | $\frac{1.44}{243.52}$<br>$\frac{243.52}{241.52}$<br>$+2.00$  |                      | 241.00 | 242.5   | 3-09.1  |
| 3+13 <sup>92</sup> RE Lt. |  |                      |        |   |         |

8.6 0/0

243.67  
1.29  
244.96  
13.01  
231.95  
2.23  
234.18

78





10.00  
 7.00  
 17.03

Floor  
 14.25 2.28 Rd  
 2.78 14.75

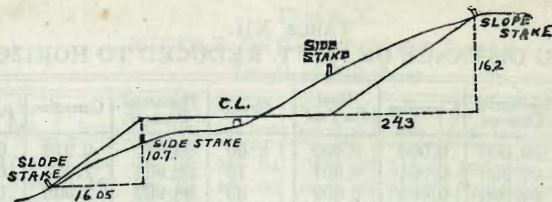
# IMPROVED TABLES AND INFORMATION

## HORIZONTAL STADIA CORRECTIONS

|         |        |         |        |         |        |
|---------|--------|---------|--------|---------|--------|
| 2°-00'  | — 0.1  | 21°-00' | — 12.8 | 33°-00' | — 29.7 |
| 3°-00'  | — 0.3  | 21°-30' | — 13.4 | 33°-15' | — 30.1 |
| 4°-00'  | — 0.5  | 22°-00' | — 14.0 | 33°-30' | — 30.5 |
| 5°-00'  | — 0.8  | 22°-30' | — 14.7 | 33°-45' | — 30.9 |
| 6°-00'  | — 1.1  | 23°-00' | — 15.3 | 34°-00' | — 31.3 |
| 7°-00'  | — 1.5  | 23°-30' | — 15.9 | 34°-15' | — 31.7 |
| 8°-00'  | — 1.9  | 24°-00' | — 16.5 | 34°-30' | — 32.1 |
| 9°-00'  | — 2.5  | 24°-30' | — 17.2 | 34°-45' | — 32.5 |
| 10°-00' | — 3.0  | 25°-00' | — 17.9 | 35°-00' | — 32.9 |
| 10°-30' | — 3.3  | 25°-30' | — 18.6 | 35°-15' | — 33.3 |
| 11°-00' | — 3.6  | 26°-00' | — 19.2 | 35°-30' | — 33.7 |
| 11°-30' | — 4.0  | 26°-30' | — 19.9 | 35°-45' | — 34.1 |
| 12°-00' | — 4.3  | 27°-00' | — 20.6 | 36°-00' | — 34.6 |
| 12°-30' | — 4.7  | 27°-30' | — 21.3 | 36°-15' | — 35.0 |
| 13°-00' | — 5.1  | 28°-00' | — 22.0 | 36°-30' | — 35.4 |
| 13°-30' | — 5.5  | 28°-30' | — 22.8 | 36°-45' | — 35.8 |
| 14°-00' | — 5.9  | 29°-00' | — 23.5 | 37°-00' | — 36.2 |
| 14°-30' | — 6.3  | 29°-30' | — 24.3 | 37°-15' | — 36.6 |
| 15°-00' | — 6.7  | 30°-00' | — 25.0 | 37°-30' | — 37.1 |
| 15°-30' | — 7.2  | 30°-15' | — 25.4 | 37°-45' | — 37.5 |
| 16°-00' | — 7.6  | 30°-30' | — 25.8 | 38°-00' | — 37.9 |
| 16°-30' | — 8.1  | 30°-45' | — 26.2 | 38°-15' | — 38.3 |
| 17°-00' | — 8.5  | 31°-00' | — 26.5 | 38°-30' | — 38.7 |
| 17°-30' | — 9.0  | 31°-15' | — 26.9 | 38°-45' | — 39.1 |
| 18°-00' | — 9.5  | 31°-30' | — 27.3 | 39°-00' | — 39.6 |
| 18°-30' | — 10.1 | 31°-45' | — 27.7 | 39°-15' | — 40.0 |
| 19°-00' | — 10.6 | 32°-00' | — 28.1 | 39°-30' | — 40.5 |
| 19°-30' | — 11.2 | 32°-15' | — 28.5 |         |        |
| 20°-00' | — 11.7 | 32°-30' | — 28.9 |         |        |
| 20°-30' | — 12.3 | 32°-45' | — 29.3 |         |        |

| Chains to Feet |     |
|----------------|-----|
| 1              | 66  |
| 2              | 132 |
| 3              | 198 |
| 4              | 264 |
| 5              | 330 |
| 6              | 396 |
| 7              | 462 |
| 8              | 528 |
| 9              | 594 |
| 10             | 660 |

| Feet to Chains |        |
|----------------|--------|
| 100            | 1.515  |
| 200            | 3.030  |
| 300            | 4.545  |
| 400            | 6.060  |
| 500            | 7.575  |
| 600            | 9.090  |
| 700            | 10.606 |
| 800            | 12.121 |
| 900            | 13.636 |
| 1,000          | 15.151 |



DISTANCES FROM SIDE STAKES FOR CROSS-SECTIONING.

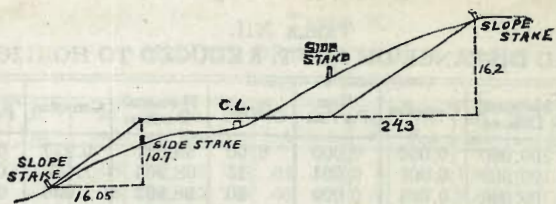
SLOPE 1 1/2 TO 1. ROADWAY OF ANY WIDTH.

|    | 0     | .1    | .2    | .3    | .4    | .5    | .6    | .7    | .8    | .9    |    |
|----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----|
| 0  | 0 00  | 0 15  | 0 30  | 0 45  | 0 60  | 0 75  | 0 90  | 1 05  | 1 20  | 1 35  | 0  |
| 1  | 1 50  | 1 05  | 1 20  | 1 35  | 1 50  | 1 65  | 1 80  | 1 95  | 2 10  | 2 25  | 1  |
| 2  | 3 00  | 3 15  | 3 30  | 3 45  | 3 60  | 3 75  | 3 90  | 4 05  | 4 20  | 4 35  | 2  |
| 3  | 4 50  | 4 65  | 4 80  | 4 95  | 5 10  | 5 25  | 5 40  | 5 55  | 5 70  | 5 85  | 3  |
| 4  | 6 00  | 6 15  | 6 30  | 6 45  | 6 60  | 6 75  | 6 90  | 7 05  | 7 20  | 7 35  | 4  |
| 5  | 7 50  | 7 65  | 7 80  | 7 95  | 8 10  | 8 25  | 8 40  | 8 55  | 8 70  | 8 85  | 5  |
| 6  | 9 00  | 9 15  | 9 30  | 9 45  | 9 60  | 9 75  | 9 90  | 10 05 | 10 20 | 10 35 | 6  |
| 7  | 10 50 | 10 65 | 10 80 | 10 95 | 11 10 | 11 25 | 11 40 | 11 55 | 11 70 | 11 85 | 7  |
| 8  | 12 00 | 12 15 | 12 30 | 12 45 | 12 60 | 12 75 | 12 90 | 13 05 | 13 20 | 13 35 | 8  |
| 9  | 13 50 | 13 65 | 13 80 | 13 95 | 14 10 | 14 25 | 14 40 | 14 55 | 14 70 | 14 85 | 9  |
| 10 | 15 00 | 15 15 | 15 30 | 15 45 | 15 60 | 15 75 | 15 90 | 16 05 | 16 20 | 16 35 | 10 |
| 11 | 16 50 | 16 65 | 16 80 | 16 95 | 17 10 | 17 25 | 17 40 | 17 55 | 17 70 | 17 85 | 11 |
| 12 | 18 00 | 18 15 | 18 30 | 18 45 | 18 60 | 18 75 | 18 90 | 19 05 | 19 20 | 19 35 | 12 |
| 13 | 19 50 | 19 65 | 19 80 | 19 95 | 20 10 | 20 25 | 20 40 | 20 55 | 20 70 | 20 85 | 13 |
| 14 | 21 00 | 21 15 | 21 30 | 21 45 | 21 60 | 21 75 | 21 90 | 22 05 | 22 20 | 22 35 | 14 |
| 15 | 22 50 | 22 65 | 22 80 | 22 95 | 23 10 | 23 25 | 23 40 | 23 55 | 23 70 | 23 85 | 15 |
| 16 | 24 00 | 24 15 | 24 30 | 24 45 | 24 60 | 24 75 | 24 90 | 25 05 | 25 20 | 25 35 | 16 |
| 17 | 25 50 | 25 65 | 25 80 | 25 95 | 26 10 | 26 25 | 26 40 | 26 55 | 26 70 | 26 85 | 17 |
| 18 | 27 00 | 27 15 | 27 30 | 27 45 | 27 60 | 27 75 | 27 90 | 28 05 | 28 20 | 28 35 | 18 |
| 19 | 28 50 | 28 65 | 28 80 | 28 95 | 29 10 | 29 25 | 29 40 | 29 55 | 29 70 | 29 85 | 19 |
| 20 | 30 00 | 30 15 | 30 30 | 30 45 | 30 60 | 30 75 | 30 90 | 31 05 | 31 20 | 31 35 | 20 |
| 21 | 31 50 | 31 65 | 31 80 | 31 95 | 32 10 | 32 25 | 32 40 | 32 55 | 32 70 | 32 85 | 21 |
| 22 | 33 00 | 33 15 | 33 30 | 33 45 | 33 60 | 33 75 | 33 90 | 34 05 | 34 20 | 34 35 | 22 |
| 23 | 34 50 | 34 65 | 34 80 | 34 95 | 35 10 | 35 25 | 35 40 | 35 55 | 35 70 | 35 85 | 23 |
| 24 | 36 00 | 36 15 | 36 30 | 36 45 | 36 60 | 36 75 | 36 90 | 37 05 | 37 20 | 37 35 | 24 |
| 25 | 37 50 | 37 65 | 37 80 | 37 95 | 38 10 | 38 25 | 38 40 | 38 55 | 38 70 | 38 85 | 25 |
| 26 | 39 00 | 39 15 | 39 30 | 39 45 | 39 60 | 39 75 | 39 90 | 40 05 | 40 20 | 40 35 | 26 |
| 27 | 40 50 | 40 65 | 40 80 | 40 95 | 41 10 | 41 25 | 41 40 | 41 55 | 41 70 | 41 85 | 27 |
| 28 | 42 00 | 42 15 | 42 30 | 42 45 | 42 60 | 42 75 | 42 90 | 43 05 | 43 20 | 43 35 | 28 |
| 29 | 43 50 | 43 65 | 43 80 | 43 95 | 44 10 | 44 25 | 44 40 | 44 55 | 44 70 | 44 85 | 29 |
| 30 | 45 00 | 45 15 | 45 30 | 45 45 | 45 60 | 45 75 | 45 90 | 46 05 | 46 20 | 46 35 | 30 |
| 31 | 46 50 | 46 65 | 46 80 | 46 95 | 47 10 | 47 25 | 47 40 | 47 55 | 47 70 | 47 85 | 31 |
| 32 | 48 00 | 48 15 | 48 30 | 48 45 | 48 60 | 48 75 | 48 90 | 49 05 | 49 20 | 49 35 | 32 |
| 33 | 49 50 | 49 65 | 49 80 | 49 95 | 50 10 | 50 25 | 50 40 | 50 55 | 50 70 | 50 85 | 33 |
| 34 | 51 00 | 51 15 | 51 30 | 51 45 | 51 60 | 51 75 | 51 90 | 52 05 | 52 20 | 52 35 | 34 |
| 35 | 52 50 | 52 65 | 52 80 | 52 95 | 53 10 | 53 25 | 53 40 | 53 55 | 53 70 | 53 85 | 35 |
| 36 | 54 00 | 54 15 | 54 30 | 54 45 | 54 60 | 54 75 | 54 90 | 55 05 | 55 20 | 55 35 | 36 |
| 37 | 55 50 | 55 65 | 55 80 | 55 95 | 56 10 | 56 25 | 56 40 | 56 55 | 56 70 | 56 85 | 37 |
| 38 | 57 00 | 57 15 | 57 30 | 57 45 | 57 60 | 57 75 | 57 90 | 58 05 | 58 20 | 58 35 | 38 |
| 39 | 58 50 | 58 65 | 58 80 | 58 95 | 59 10 | 59 25 | 59 40 | 59 55 | 59 70 | 59 85 | 39 |
| 40 | 60 00 | 60 15 | 60 30 | 60 45 | 60 60 | 60 75 | 60 90 | 61 05 | 61 20 | 61 35 | 40 |
| 41 | 61 50 | 61 65 | 61 80 | 61 95 | 62 10 | 62 25 | 62 40 | 62 55 | 62 70 | 62 85 | 41 |
| 42 | 63 00 | 63 15 | 63 30 | 63 45 | 63 60 | 63 75 | 63 90 | 64 05 | 64 20 | 64 35 | 42 |
| 43 | 64 50 | 64 65 | 64 80 | 64 95 | 65 10 | 65 25 | 65 40 | 65 55 | 65 70 | 65 85 | 43 |
| 44 | 66 00 | 66 15 | 66 30 | 66 45 | 66 60 | 66 75 | 66 90 | 67 05 | 67 20 | 67 35 | 44 |
| 45 | 67 50 | 67 65 | 67 80 | 67 95 | 68 10 | 68 25 | 68 40 | 68 55 | 68 70 | 68 85 | 45 |
| 46 | 69 00 | 69 15 | 69 30 | 69 45 | 69 60 | 69 75 | 69 90 | 70 05 | 70 20 | 70 35 | 46 |
| 47 | 70 50 | 70 65 | 70 80 | 70 95 | 71 10 | 71 25 | 71 40 | 71 55 | 71 70 | 71 85 | 47 |
| 48 | 72 00 | 72 15 | 72 30 | 72 45 | 72 60 | 72 75 | 72 90 | 73 05 | 73 20 | 73 35 | 48 |
| 49 | 73 50 | 73 65 | 73 80 | 73 95 | 74 10 | 74 25 | 74 40 | 74 55 | 74 70 | 74 85 | 49 |
| 50 | 75 00 | 75 15 | 75 30 | 75 45 | 75 60 | 75 75 | 75 90 | 76 05 | 76 20 | 76 35 | 50 |

Computed by L. Leland Locke.

Handwritten calculations and notes on the top right page, including numbers like 75.57, 22, 586, 49, 119.60, 97.24, 120.09, 11.45, 2.91, 14.30, 7.98, 7.71, 1.4, 6.3, 37.2, 32, 31, 24, 12, 3.5, 19, 4.7, 5.2, 10.00, 11.00, 5.24, 2.54, 12.73, 5.0, 4.5, 12.20, 9.70, 4/2.50, 8/62, 13.50, 6.69, 970, 1032, 63, 10.95, 62, 11.57, 63, 1220.





DISTANCES FROM SIDE STAKES FOR CROSS SECTION

|                        |                       |                     |                   |                        |
|------------------------|-----------------------|---------------------|-------------------|------------------------|
| $\frac{75.57}{2.62}$   | $\frac{72}{2.7}$      | $\frac{586}{82.26}$ | $\frac{49}{4.1}$  | $\frac{174.60}{97.24}$ |
| $\frac{25.000}{11.00}$ | $\frac{12}{2.4}$      | $\frac{3.5}{1.7}$   | $\frac{4.7}{5.2}$ | $\frac{82.26}{37.32}$  |
| $\frac{5.24}{2.58}$    | $\frac{50}{4.5}$      | $\frac{7.71}{1.4}$  |                   | $\frac{11.45}{2.81}$   |
| $\frac{3273}{91}$      | $\frac{7.42}{6.85}$   | $\frac{6.3}{2.72}$  | $\frac{76}{3.5}$  | $\frac{14.30}{7.98}$   |
| $\frac{5.24}{91}$      | $\frac{14.27}{16.17}$ | $\frac{7}{11.40}$   | $\frac{90}{108}$  | $\frac{81.00}{98.3}$   |
| $\frac{4.37}{4.37}$    | $\frac{4.77}{9.5}$    | $\frac{95}{2.6}$    | $\frac{40}{70}$   | $\frac{86.0}{1.23}$    |
| $\frac{792}{522}$      | $\frac{1.98}{11.40}$  |                     |                   | $\frac{30}{40}$        |
| $\frac{270}{9}$        | $\frac{1331}{286}$    |                     |                   | $\frac{60}{49}$        |
| $\frac{977}{552}$      | $\frac{16.17}{4.37}$  | $\frac{4.37}{4.47}$ |                   | $\frac{76}{58.15}$     |
| $\frac{1529}{764}$     | $\frac{792}{2.9}$     | $\frac{764}{14}$    |                   | $\frac{57.1}{95.05}$   |
|                        | $\frac{702}{140}$     | $\frac{4.11}{4.11}$ |                   | $\frac{5.5}{5.5}$      |
|                        | $\frac{522}{522}$     |                     |                   | $\frac{4.75}{4.75}$    |
|                        | $\frac{1283}{6.83}$   |                     |                   | $\frac{22}{46}$        |
|                        | $\frac{19.66}{9.83}$  |                     |                   | $\frac{154}{27}$       |
|                        |                       |                     |                   | $\frac{66}{93}$        |
|                        |                       |                     |                   | $\frac{52.15}{54.35}$  |
|                        |                       |                     |                   | $\frac{2.75}{57.10}$   |
|                        |                       |                     |                   | $\frac{925}{3035}$     |
|                        |                       |                     |                   | $\frac{400}{400}$      |
|                        |                       |                     |                   | $\frac{90}{81}$        |
|                        |                       |                     |                   | $\frac{265}{50}$       |
|                        |                       |                     |                   | $\frac{8456}{7}$       |
|                        |                       |                     |                   | $\frac{831.6}{831.6}$  |

