

GRADE - 162

162

PASTY

LEVEL BOOK

No. 230

1,15470
75
57735
80829
8,66025

1,1547
28.87

705
61
356
294
416

866
182
26.86
3555

28.9
2.2
26.7

1,1547
23
30641
23194
26,9581

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 4 x 4 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 vertical and 4 horizontal lines to the inch, Center Line Red.

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THE FREDERICK POST CO.
ENGINEERING and DRAFTING SUPPLIES
IRVING PARK STATION
CHICAGO, ILL.

MICROFILMED

APR 9 1965

Bench Marks Redlands Gardens

| | |
|-----------------------------------------------|--------|
| S.W.M. Adams + Collier | 417.22 |
| S.W. Nails in Pole 54 th + Collier | 417.45 |
| S.W. Spring leaf in Pole Adams + Hinson | 416.98 |
| N.W. Mon. El Cajon + 54 th | 402.06 |
| | 418.72 |
| Mon NW 56 th & Adams | 451.78 |
| B.P. S.E. Adams & 55 th | 433.65 |
| B.P. N.W. 55 th & Redland Dr. | 436.54 |
| B.P. N.E. 54 th & Adams | 413.40 |

Justus
R

8-16-29 Sewer Construction 54th
 J.C. Bliss St. between El Cajon & Adams
 Drebert
 Roney

| Sta | Grade | Cut |
|-----------------------------------|--------|-------|
| M.H. #31 | 367.0 | 12.22 |
| +33.48 | 358.33 | 8.41 |
| +66.96 | 349.66 | 5.78 |
| +100 th B.K. | 341.0 | 6.94 |
| +40 | 339.0 | 4.53 |
| +80 = M.H. #32 | 337.0 | 6.40 |
| +50-B.K. | 344.0 | 7.11 |
| +89.27 | 354.66 | 8.48 |
| +128.54 | 365.33 | 13.19 |
| +167.81 = M.H. #33 | 376.0 | 11.87 |
| Concrete Piers - South of M.H. 33 | | |
| #1 North Pier | 392.14 | 4.26 |
| #2 | 392.23 | F0.41 |
| #3 | 392.32 | F7.60 |
| #4 | 392.42 | F8.52 |
| M.H. #32 | 337.0 | |
| +50.03 | 338.41 | 7.26 |
| +100 th C Pt. | 339.83 | 6.71 |
| +143.21 | 341.06 | 6.87 |
| +186.36 | 342.29 | 5.64 |
| 2+29.51 | 343.52 | 5.62 |
| 2+72.66 | 344.75 | 7.12 |
| 3+15.95 = M.H. #28 | 346.00 | 6.77 |

B.M. 416.98 - S.W. Spring Leas in Pole Adams & Hinson

| | | | | |
|--------------------------------------|--------|--------|--------|--------|
| 416.98 | | | | |
| -12.93 | | | | |
| 404.05 #1 | | | | |
| +0.31 | | | | |
| 404.36 | 392.35 | 329.79 | 366.84 | |
| -12.37 | 367.0 | 358.33 | 349.66 | |
| 391.99 | 25.35 | 21.46 | 17.18 | |
| +0.38 | 13.13 | 13.05 | 11.40 | |
| 392.35 | 12.22 | 8.41 | 5.78 | |
| 13.13 | | | | |
| 379.22 | 354.59 | 354.59 | 354.59 | |
| 0.57 | 341.0 | 339.0 | 337.0 | |
| 379.77 | 13.59 | 15.59 | 17.59 | |
| 13.05 | 6.65 | 11.05 | 11.19 | |
| 366.74 | 6.94 | 4.53 | 6.40 | |
| 0.10 | | | | |
| 366.84 | 361.45 | 374.31 | | |
| 12.49 | 344.0 | 354.66 | | |
| 354.35 | 17.45 | 19.63 | | |
| 0.24 | 10.54 | 11.17 | | |
| 354.59 | 7.11 | 8.48 | | |
| -1.64 | | | | |
| B.M. 352.95 - Paving State 80' North | | | | |
| M.H. #32 | | | | |
| +8.50 | | | | |
| 361.45 | 387.10 | 398.52 | 400.70 | 400.00 |
| 0.05 | 365.33 | 376.0 | 392.14 | 392.23 |
| 361.40 | 21.77 | 22.52 | 8.56 | 8.88 |
| 12.91 | 8.58 | 10.65 | 3.80 | 8.41 |
| 374.31 | 13.19 | 11.87 | 4.76 | |
| 0.30 | | | | |
| 374.01 | #3 | #4 | | |
| 13.09 | | | | |
| 387.10 | 9.48 | 394.70 | 394.70 | 10.50 |
| -1.16 | 2.38 | 392.32 | 392.42 | 2.28 |
| 385.94 | 7.60 | 2.38 | 2.28 | 8.52 |
| 12.58 | | | | |
| 398.52 | 394.70 | 394.70 | 394.70 | 394.70 |
| 0.07 | 0.03 | | | |
| 398.45 | 394.67 | | | |
| 9.53 | 13.14 | | | |
| 407.98 | 407.81 | | | |
| 7.87 | 5.77 | | | |
| 400.11 | 402.04 | | | |
| 0.59 | | | | |
| 400.70 | | | | |
| 12.41 | | | | |
| 388.29 | 353.94 | 353.94 | 353.94 | 353.71 |
| 6.41 | 338.21 | 339.83 | 341.06 | 342.29 |
| 394.70 | 15.53 | 14.11 | 12.88 | 11.42 |
| 354.33 | 8.27 | 7.40 | 6.01 | 5.78 |
| 11.41 | 7.26 | 6.71 | 6.87 | 5.64 |
| 347.92 | 353.71 | 353.71 | 353.71 | 353.71 |
| | 3.18 | | | |
| | 347.92 | 343.52 | 359.33 | 359.33 |
| | 8.80 | 10.19 | 344.25 | 346.00 |
| | 359.33 | 4.57 | 14.58 | 13.33 |
| | | 5.62 | 7.46 | 6.52 |
| | | | 7.72 | 7.72 |

NW Mex 54th & El Cajon

B.M. 352.95 - Paving State 80' North M.H. 32

Concrete Piers 52' South M.H. 30

North Pier = #1

380.84 F 1.80

#2

380.06 C 3.24

T.P. #1 - #2 404.05

$$\begin{array}{r}
 404.05 \\
 \underline{0.36} \\
 404.41 \\
 \underline{13.04} \\
 391.37 \\
 \underline{0.47} \\
 391.84
 \end{array}$$

391.84 391.84

380.84 380.06

11.00 11.78

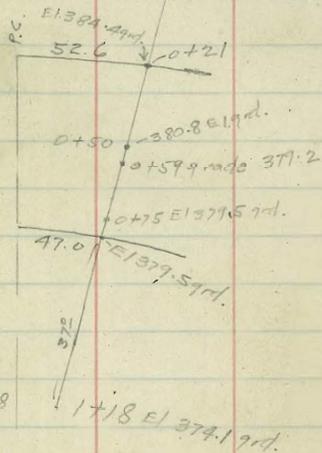
12.80 8.54

3.24

Culvert No 1 on 54th St North of El Cajon.

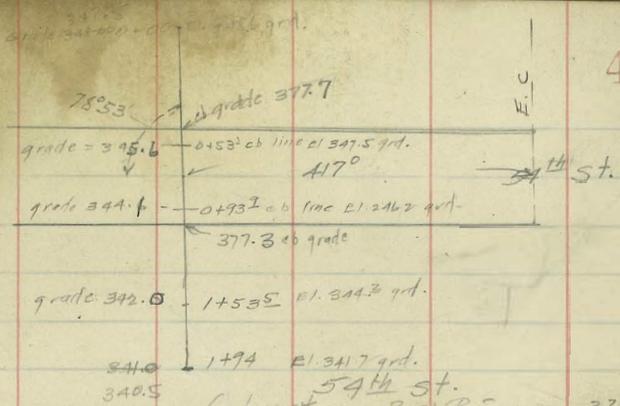
| | | | | |
|------|---------------|------------------|-------|--------|
| B.M. | 402.06 | NW E.C. 100 = 54 | | 378.90 |
| | 4.22 | | | 377.5 |
| | 406.28 | | 387.0 | 399.3 |
| | 12.41 | | 6.2 | 364.4 |
| | 393.87 | | 380.8 | 14.9 |
| | 8.29 | 0+50 | 387.0 | 398.9 |
| | 394.16 | | 7.5 | 375.0 |
| | 12.63 | 0+75 | 379.5 | 1.8 |
| | 381.53 | | 385.2 | 37.7 |
| | 5.46 | | 399.3 | 398.8 |
| | 386.99 - H.I. | | 387.0 | 374.1 |
| | 2.6 | | 12.0 | 370.1 |
| | 384.4 | | 375.0 | 2.8 |

El 385.2 grad. 0+00 grade 384.6



| | |
|-------|--------|
| 387.0 | H.I. |
| 12.2 | |
| 374.8 | |
| 373.8 | |
| 0.12 | outlet |
| 387.0 | |
| 5.6 | |
| 381.4 | |
| 379.5 | |
| 1.9 | center |
| 387.0 | |
| 1.9 | |
| 385.1 | |
| 384.6 | |
| 0.5 | inlet |

Culvert 1100 ft of E.C. in Canyon



Culvert in Big Cañon North of El Cajon

| | |
|---------------|--------------------------|
| 339.83 | |
| 6.71 | |
| 346.54 | 1+00 th L.P.2 |
| 5.90 | |
| 352.44 - H.I. | |
| 3.8 | |
| 348.6 | |
| 352.44 | |
| 4.9 | |
| 347.5 | |
| 352.4 | |
| 6.2 | |
| 346.2 | |
| 352.4 | |
| 8.2 | |
| 344.2 | |
| 377.3 | |
| 33.1 | |
| 352.4 | |
| 10.7 | |
| 341.7 | |

340.5 1+94 El. 341.7 grad.

340.5 54th St.

340.5 1+94 El. 341.7 grad.

340.5 352.4

340.5 343.6

340.5 341.0

340.5 352.4

340.5 344.0

340.5 345.6

340.5 344.6

340.5 352.4

340.5 347.8

340.5 345.6

340.5 352.2

340.5 348.0

340.5 347.8

340.5 377.2

340.5 29.9

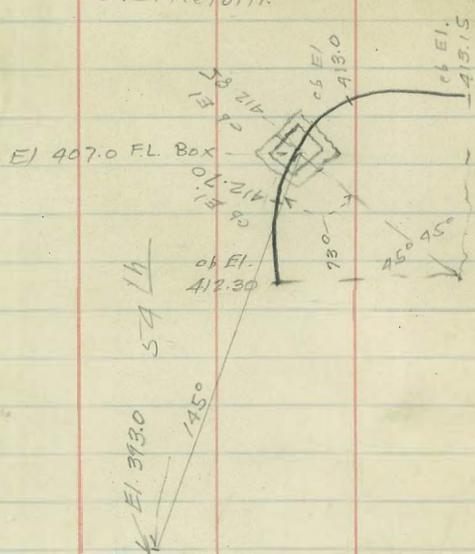
| |
|-------|
| 377.7 |
| 348.6 |
| 29.1 |
| 1.1 |
| 43.6 |

| |
|-------|
| 344.0 |
| 6.9 |
| 350.9 |
| 5.0 |
| 345.9 |
| 344.1 |
| 1.8 |
| 347.7 |
| 345.6 |
| 2.1 |

| |
|-------|
| 377.3 |
| 345.9 |
| 31.4 |
| 345.6 |
| 377.3 |
| 31.7 |

| |
|-------|
| 347.8 |
| 377.2 |
| 29.9 |

Culvert & inlet at Adams & SA
S.E. Return.



Adams

416.98
2.01
418.99
435
414.64
413.15
1.49

418.99
4.56
414.43
413.
e1.49

418.99
4.87
414.12
412.85
1.27

416.99
5.30
413.69
412.70
c0.99

5
418.99
598
413.01
412.95
c0.71

Profile of Culvert.

419.
4.9
414.1

0+50 8.9 410.1
0+56 9.4 409.6
0+75 11.1 407.9

0+80 14.7 404.3

T.P. 12.56 406.43
+2.26
408.69
408.7

1+00 7.2 401.5

1+45 14.1 394.6

Cuts for Culvert.

419.0

0+00 414.1

0+50 8.9 410.1

408.7

1+00 3.1 405.6

1+45 12.4 396.3

E1 Grade

0+00 414.12 407. c7.12

0+50 410.1 402.2 c7.9

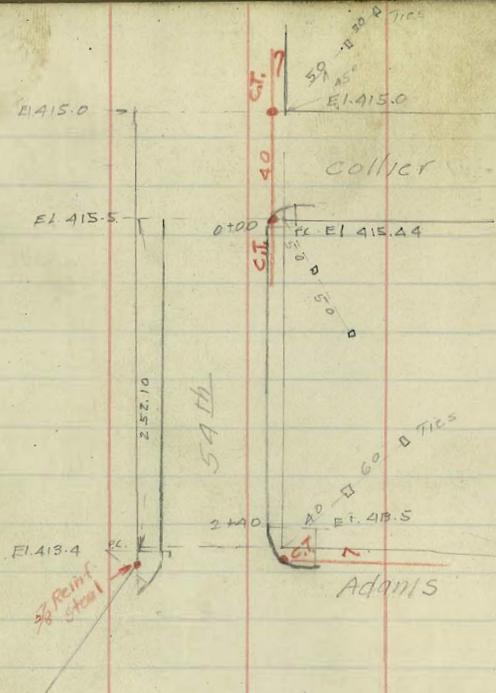
1+00 405.6 397.4 c8.2

1+45 396.3 393.0 c3.3

8/20/29
London

Grade stakes on 54th from
Collier to Adams

6



Sta
+
0+00
W
0+75
E
0+50
E
W
1+00
E
W
1+50
E
W
2+00
E
W
2+40
E
W
2+52¹⁰
W

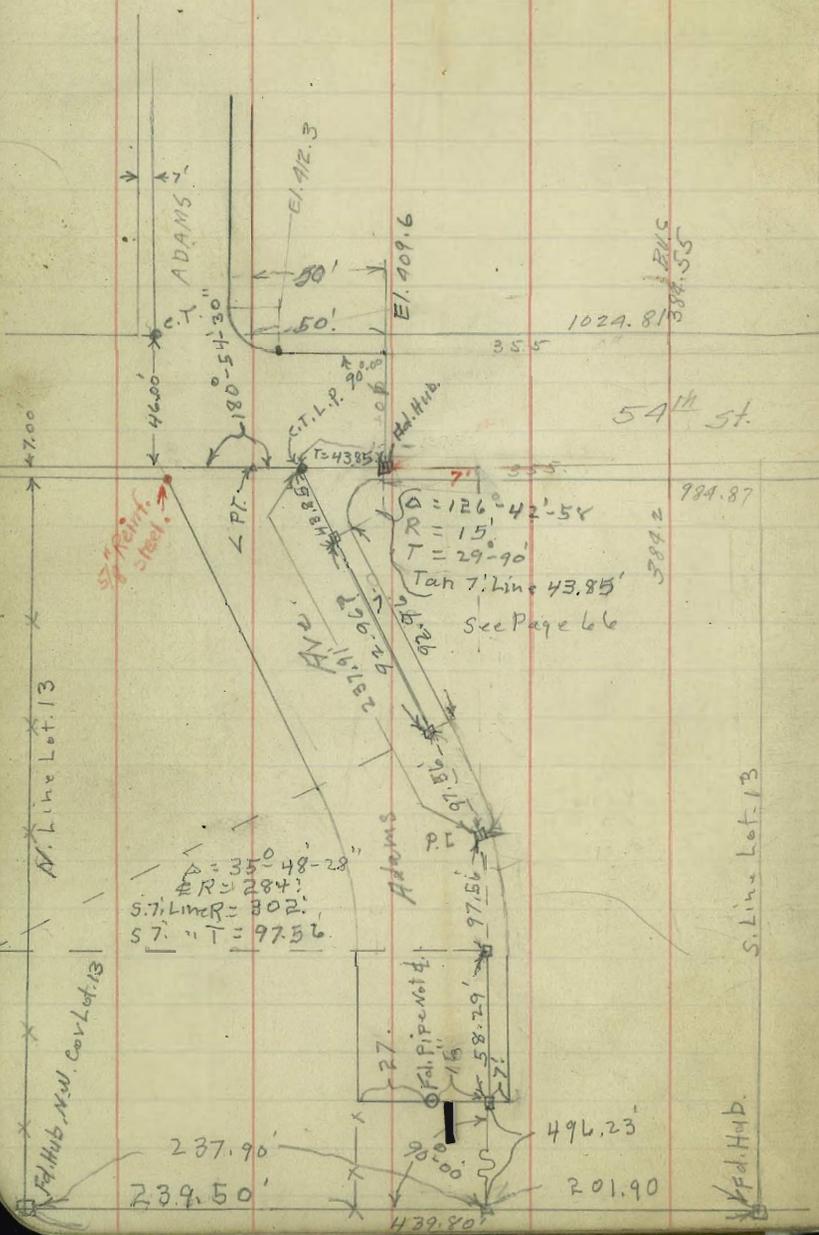
| H.I | - | El | Grade |
|-------|---|-------|--------------|
| 422.5 | | | |
| 6.4 | | 416.1 | 415.5 C 0.6 |
| 5.6 | | 416.9 | 415.44 C 1.5 |
| 5.4 | | 417.1 | 415.09 C 2.0 |
| 6.2 | | 416.3 | 415.08 C 1.2 |
| 5.2 | | 417.3 | 414.67 C 2.5 |
| 6.4 | | 416.1 | 414.67 C 1.3 |
| 5.9 | | 416.6 | 414.27 C 2.3 |
| 6.3 | | 416.2 | 414.25 C 2.0 |
| 6.1 | | 416.4 | 413.84 C 2.6 |
| 6.8 | | 415.7 | 413.84 C 1.9 |
| 6.7 | | 415.8 | 413.50 C 2.3 |
| | | | 413.50 |
| 7.6 | | 414.8 | 413.40 C 1.5 |

B.M 416.98
5.55
422.53

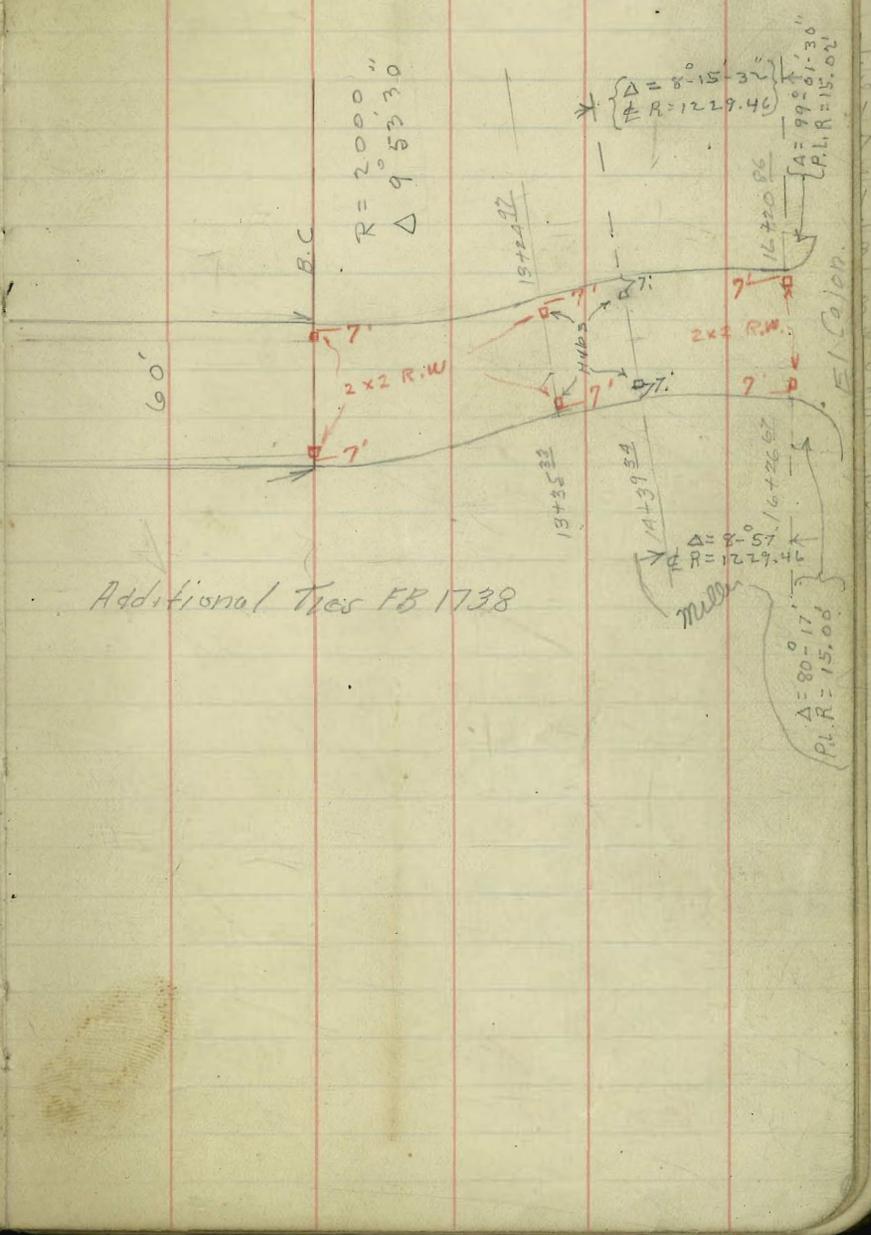
422.5
6.4
416.0
415.0
C 1.0

422.5
6.3
416.2
415.0
C 1.2

plotted on Tie sheet. See Page 66.
 c.s.K. 5-7-36



Additional Ties FB 1738



Grade stakes on 5444 st

1. 1115 to El Cajon

8

| sta | 417.20 | El | grade | cor F | out |
|------------|------------------|-------|--------|--------|--------|
| 0+00 | PC SW ret see P7 | | | | |
| E | 6.5 | 410.7 | 409.6 | C 1.1 | |
| W | 9.3 | 407.9 | 409.6 | F 1.7 | |
| 0+50 | | | | | |
| E | 407.43 | 9.0 | 408.2 | 406.07 | C 2.1 |
| W | 5.8 | 401.6 | 406.02 | F 4.4 | 5.4 |
| 1+00 | | | | | |
| E | 1.3 | 406.1 | 402.55 | C 3.6 | |
| W | 7.5 | 399.9 | 402.45 | F 2.5 | |
| 1+50 | | | | | |
| E | 3.6 | 403.8 | 399.02 | C 4.8 | |
| W | 6.9 | 400.5 | 398.87 | C 1.6 | |
| 2+00 | | | | | |
| E | 9.7 | 397.7 | 395.50 | C 2.2 | |
| W | 12.0 | 395.4 | 395.30 | F 0.1 | |
| 2+50 | | | | | |
| E | For W. 382.2 | 16.2 | 391.2 | 391.97 | F 0.8 |
| W | 10.2 | 372.0 | 391.72 | F 19.7 | 33.0 |
| 3+00 | | | | | |
| E | 8.5 | 398.9 | 388.45 | C 10.5 | |
| W | 14.0 | 368.2 | 388.15 | F 19.9 | 34.0 |
| 3+55 = BVC | | | | | |
| E | For W 370.0 | 9.2 | 397.2 | 384.55 | C 12.7 |
| W | 6.4 | 363.6 | 384.20 | F 20.6 | 35.4 |

| BM - 416.98 |
|---------------|
| 0.22 |
| 417.20 |
| 3.38 |
| 399.54 - B.M. |
| 11.41 |
| 405.79 |
| 1.64 |
| 407.43 |
| 12.86 |
| 399.89 |
| 10.56 |
| 390.45 |
| 0.16 |
| 394.57 |
| 394.73 |
| 12.71 |
| 382.02 |
| 0.16 |
| 378.40 |
| 382.18 |
| -12.70 |
| -12.38 |
| 365.70 |
| 369.80 |
| +2.95 |
| +0.17 |
| 368.65 |
| 41369.97 |
| -12.77 |
| -12.15 |
| 355.88 |
| 357.82 |
| +7.26 |
| +1.47 |
| 363.14 |
| 41357.29 |
| -0.12 |
| -4.43 |
| 363.02 |
| 354.86 |
| 112.30 |
| +0.16 |
| 375.32 |
| 355.02 |
| -0.68 |
| -1.31 |
| 374.64 |
| 353.71 |
| +12.42 |
| 387.06 |
| 365.75 |
| -0.34 |
| 0.41 |
| 386.72 |
| 365.54 |
| +11.92 |
| 112.96 |
| 398.64 |
| 378.50 |
| -1.19 |
| -0.82 |
| 378.47 |
| 397.45 |
| +12.97 |
| +12.56 |
| 391.46 |
| 410.01 |
| -1.01 |
| -0.24 |
| 390.45 |
| 409.77 |
| 12.47 |
| +9.56 |
| 402.72 |
| 419.33 |
| 1.37 |
| 417.96 |

| sta | 370.0 For W | EI | grade | out |
|------|--------------|-------|--------|-------------|
| 3+75 | | | | |
| E | 11.0 | 396.4 | 383.20 | C 13.2 |
| W | 8.1 | 361.9 | 382.9 | F 21.0 33.3 |
| 3+95 | | | | |
| E | 12.3 | 395.1 | 382.0 | C 13.1 |
| W | 9.6 | 360.4 | 381.70 | F 21.3 33.6 |
| 4+15 | | | | |
| E | 397.0 4.4 | 392.6 | 381.0 | C 11.6 |
| W | 359.3 1.2 | 358.1 | 380.60 | F 22.5 37.0 |
| 4+35 | | | | |
| E | 397.0 5.5 | 391.5 | 380.05 | C 11.4 |
| W | 2.5 | 356.8 | 379.70 | F 22.9 36.1 |
| 4+55 | | | | |
| E | 397.0 7.7 | 389.8 | 379.30 | C 10.0 |
| W | 5.2 | 354.1 | 378.90 | F 24.8 39.2 |
| 4+75 | | | | |
| E | 384.6 1.8 | 382.8 | 378.65 | C 4.2 |
| W | 6.6 | 352.7 | 378.30 | F 25.6 40.8 |
| 4+95 | 355.0 For W | | | |
| E | 384.6 9.5 | 375.2 | 378.20 | F 3.1 4.8 |
| W | 3.8 | 351.2 | 377.80 | F 26.6 41.2 |
| 5+15 | | | | |
| E | 373.0 7.4 | 365.8 | 377.85 | F 12.2 18.6 |
| W | 6.0 | 349.0 | 377.45 | F 28.4 44.0 |

| sta | 355.0 For W | EI | grade | out |
|------|---------------|-------|--------|-------------|
| 5+35 | | | | |
| E | 361.5 6.0 | 355.5 | 377.65 | F 22.1 32.4 |
| W | 7.8 | 347.2 | 377.30 | F 30.1 45.0 |
| 5+55 | | | | |
| E | 355.1 6.8 | 348.3 | 377.60 | F 29.3 44.0 |
| W | 9.0 | 346.0 | 377.20 | F 31.2 48.3 |
| 5+75 | | | | |
| E | 355.1 6.7 | 348.4 | 377.70 | F 29.3 43.8 |
| W | | | 377.25 | |
| 5+95 | | | | |
| E | 355.1 4.2 | 350.4 | 377.95 | F 27.5 42.6 |
| W | 10.4 | 344.6 | 377.50 | F 32.9 47.5 |
| 6+15 | | | | |
| E | 366.3 9.5 | 356.8 | 378.30 | F 21.5 32.4 |
| W | 8.1 | 346.1 | 377.95 | F 31.0 46.0 |
| 6+35 | | | | |
| E | 366.3 4.3 | 362.0 | 378.80 | F 16.8 28.0 |
| W | 4.3 | 350.7 | 378.45 | F 27.7 40.5 |
| 6+55 | | | | |
| E | 366.3 2.0 | 364.3 | 379.40 | F 15.5 26.7 |
| W | 365.9 11.4 | 354.5 | 379.10 | F 24.6 33.3 |
| 6+75 | | | | |
| E | 366.3 0.5 | 365.8 | 380.20 | F 14.4 26.4 |
| W | 378.5 14.2 | 364.3 | 379.90 | F 15.6 20.2 |

| Sta | EI | grade | out | |
|------|-----------------|-------|--------|-------------|
| 6+95 | | | | |
| E | 366.3 0.3 | 366.0 | 381.20 | F 15.2 26.5 |
| W | 378.5 0.7 | 377.8 | 380.90 | F 3.1 5.0 |
| 7+15 | | | | |
| E | 378.0 11.7 | 366.3 | 382.30 | F 16.0 27.9 |
| W | 387.4 8.4 | 384.3 | 382.00 | C 2.3 |
| 7+35 | | | | |
| E | 390.1 15.2 | 374.9 | 383.60 | F 8.7 9.1 |
| W | 399.9 5.2 | 394.7 | 383.35 | C 11.4 |
| 7+55 | E.V.C. | | | |
| E | 390.1 5.3 | 384.8 | 384.80 | C 0.0 |
| W | 399.9 1.3 | 398.6 | 384.70 | C 13.9 |
| 7+95 | 407.3 B.V.C. | | | |
| E | 15.3 | 392.0 | 387.80 | e 4.2 |
| W | 4.9 | 402.4 | 387.60 | C 14.8 |
| 8+15 | | | | |
| E | 14.1 | 393.2 | 389.20 | e 4.0 |
| W | 4.2 | 403.1 | 389.00 | C 14.1 |
| 8+35 | | | | |
| E | 12.5 | 394.8 | 390.50 | C 4.3 |
| W | 3.6 | 403.7 | 390.30 | C 13.4 |
| 8+55 | | | | |
| E | 11.5 | 395.8 | 391.60 | C 4.2 |
| W | 3.5 | 403.8 | 391.45 | C 12.4 |

| | 407.3 | EI | grade | |
|------|--------|-------|--------|--------|
| 8+75 | | | | |
| E | 9.6 | 397.7 | 392.65 | C 5.1 |
| W | 3.5 | 403.8 | 392.55 | C 11.2 |
| 8+95 | | | | |
| E | 8.4 | 398.9 | 393.50 | C 5.4 |
| W | 3.4 | 403.9 | 393.40 | C 10.5 |
| 9+15 | | | | |
| E | 7.4 | 399.9 | 394.30 | C 5.6 |
| W | 3.4 | 403.9 | 394.20 | C 9.7 |
| 9+35 | | | | |
| E | 6.7 | 400.6 | 395.0 | C 5.4 |
| W | 3.4 | 403.9 | 394.9 | C 9.0 |
| 9+55 | | | | |
| E | 5.8 | 401.5 | 395.5 | C 6.0 |
| W | 3.4 | 403.9 | 395.5 | C 8.4 |
| 9+75 | | | | |
| E | 5.0 | 402.3 | 396.0 | C 6.3 |
| W | 3.7 | 403.6 | 395.9 | C 7.7 |
| 9+95 | E.V.C. | | | |
| E | 4.2 | 403.1 | 396.3 | C 6.8 |
| W | 3.7 | 403.6 | 396.2 | C 7.4 |

Remainder of Cu in 10 Parts straight grade

376.45
 0.56
 377.01
 -12.65
 384.36
 +0.27
 384.63
 -12.30
 372.33
 +0.67
 373.00
 -12.84
 360.16
 +1.40
 361.56
 8.60 - BM
 352.96
 361.56

352.96
 2.14
 355.10
 10.82
 354.28
 11.99
 366.27
 -0.30
 365.97
 +12.04
 378.01
 0.15
 377.86
 +12.26
 390.12
 -0.46
 389.66

387.66
 +10.25
 397.91
 1.35
 398.56 - B.M.
 399.91
 -12.98
 386.93
 +0.45
 387.38

398.56
 6.77
 407.33
 -1.99
 405.34 - T.P.
 +2.73
 408.07
 -12.71
 395.36
 1.218
 397.54
 -0.78
 396.76
 +12.11
 408.87
 6.79
 402.08 - BM NW. E. 1/2 CORNER 57 1/2

| | 407.3 | El | grade | |
|---|--------|-------|--------|-------------|
| ① | | | | |
| E | 2.8 | 404.5 | 396.75 | C 7.8 |
| W | 4.2 | 403.1 | 396.61 | C 7.5 |
| ② | | | | |
| E | 2.0 | 405.3 | 397.20 | C 8.1 |
| W | 5.4 | 401.9 | 397.02 | C 4.9 |
| ③ | 408.07 | | | |
| E | 2.6 | 405.5 | 397.65 | C 7.9 |
| W | 7.6 | 400.5 | 397.43 | C 3.1 |
| ④ | | | | |
| E | 2.6 | 405.5 | 398.10 | C 7.4 |
| W | 7.7 | 400.4 | 397.84 | C 2.6 |
| ⑤ | | | | |
| E | 8.1 | 400.0 | 398.55 | C 1.5 |
| W | 6.4 | 401.7 | 398.25 | C 3.5 |
| ⑥ | | | | |
| E | 8.8 | 399.3 | 399.0 | C 0.3 |
| W | 6.3 | 401.8 | 398.66 | C 3.1 |
| ⑦ | | | | |
| E | 11.0 | 397.1 | 399.45 | F 2.3 |
| W | 12.7 | 395.4 | 399.07 | F 3.7 5.1 |
| ⑧ | 397.5 | | | |
| E | 11.6 | 385.9 | 399.90 | F 14.0 19.5 |
| W | 16.6 | 380.9 | 399.48 | F 18.6 20.2 |

| | | | | | |
|---|----------------------------|----------------|--------|--------|------|
| ⑨ | 397.5 | EI | grade | | |
| E | 10.2 | 387.3 | 400.35 | F 13.0 | 19.9 |
| W | 14.2 | 383.3 | 399.89 | F 16.6 | 23.5 |
| ⑩ | $13+20.2 = 13+35.33 = EC.$ | | | | |
| E | 10.0 | 398.9 | 400.80 | F 1.9 | |
| W | +1.1 | 398.6 | 400.30 | F 1.7 | |
| | 13+87 ³³ | 408.9 | | | |
| E | 3.9 | 405.0 | 401.50 | C 3.5 | |
| W | 6.1 | 402.8 | 401.00 | C 1.8 | |
| | 14+39 ³⁴ | BC. | | | |
| E | 4.0 | 404.9 | 402.20 | C 2.7 | |
| W | 6.2 | 402.7 | 401.70 | C 1.0 | |
| | 14+93 | | | | |
| W | 6.6 | 402.3 | 402.45 | C 0.1 | |
| | 15+46 ⁶⁷ | PVC. | | | |
| W | 6.3 | 402.6 | 403.20 | F 0.6 | |
| | 15+66 ⁶⁷ | | | | |
| W | 5.9 | 403.0 | 403.00 | E 0.4 | |
| | 15+86 ⁶⁷ | | | | |
| W | 6.0 | 402.9 | 403.00 | F 0.5 | |
| | 16+06 ⁶² | | | | |
| W | 6.2 | 402.7 | 403.20 | F 0.5 | |
| | 16+26 ⁶⁷ | = p.c. return. | | | |
| W | 6.1 | 402.8 | 402.70 | F 0.1 | |

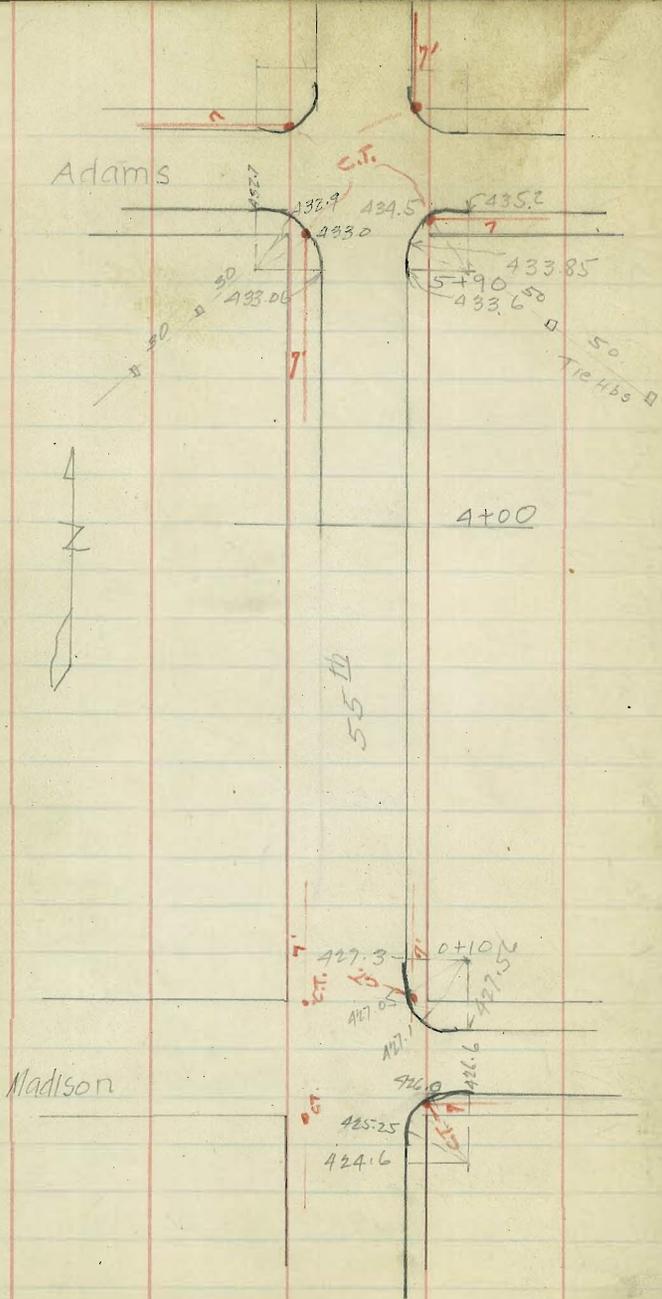
| | | | | | |
|---|---------------------|--------------|-------|-------|--|
| | 408.9 | | | | |
| | 14+89 ⁷² | EI | grade | | |
| E | 4.0 | 404.9 | 402.8 | C 2.1 | |
| | 15+30 ¹⁰ | | | | |
| E | 4.1 | 404.8 | 403.4 | C 1.4 | |
| | 15+75 ⁴⁸ | | | | |
| E | 3.8 | 405.1 | 404.0 | C 1.1 | |
| | 16+20 ⁸⁶ | p.c. return. | | | |
| E | 4.3 | 404.6 | 404.6 | C 0.0 | |

| | 416.7 | El | grade. | | |
|--------------------|---------------|--------|--------|--------|----------|
| 1+88 ⁶⁰ | | | | | |
| E | 7.3 | 409.4 | 416.20 | F 6.8 | out 12.3 |
| W | 14.0 | 4102.7 | 416.20 | F 13.5 | |
| 2+08 ⁶⁰ | | | | | |
| E | 3.1 | 413.6 | 416.10 | F 2.5 | out 7.2 |
| W | 15.1 | 401.6 | 416.10 | F 14.5 | out 21.4 |
| 2+28 ⁶⁰ | | | | | |
| E | 2.0 | 414.7 | 416.20 | F 1.5 | out 6.0 |
| W | 7.1 | 409.6 | 416.10 | F 6.5 | out 10.0 |
| 2+47 ¹² | | | | | |
| E | 427.8 11.1 | 4116.7 | 416.40 | C 0.8 | |
| W | 1.2 | 415.5 | 416.30 | F 0.8 | |
| 2+67 ¹⁰ | E.V.L. | | | | |
| E | 8.5 | 419.3 | 416.90 | C 2.4 | |
| W | 8.9 | 418.9 | 416.60 | C 2.3 | |
| 3+00 | 427.8 | | | | |
| E | 7.5 | 240.3 | 417.60 | C 2.7 | |
| W | 7.7 | 420.4 | 417.40 | C 2.7 | |
| 3+50 | | | | | |
| E | 6.4 | 421.4 | 418.90 | C 2.5 | |
| W | 7.9 | 419.9 | 418.40 | C 1.5 | |
| 4+00 | | | | | |
| E | 5.6 | 422.2 | 420.00 | C 2.2 | |
| W | 9.7 | 418.9 | 419.50 | F 0.6 | |

| | 427.8 | El | grade | | |
|--------------------|--------|--------|--------|-------|--------------------------|
| 4+48 ⁶⁰ | B.V.L. | | | | |
| E | 5.4 | 422.4 | 421.00 | C 1.4 | |
| W | 8.2 | 419.6 | 420.40 | F 0.8 | 425.97 6.35 419.61 |
| 4+68 ⁶⁰ | | | | | |
| E | 5.0 | 422.8 | 421.40 | C 1.4 | 425.97 6.87 419.10 |
| W | 7.2 | 420.6 | 420.70 | F 0.1 | |
| 4+88 ⁶⁰ | | | | | |
| E | 4.6 | 423.2 | 421.70 | C 1.5 | |
| W | 6.4 | 421.4 | 420.90 | C 0.5 | |
| 5+08 ⁶⁰ | | | | | |
| E | 3.2 | 424.6 | 421.80 | C 2.8 | |
| W | 5.4 | 422.4 | 421.00 | C 1.4 | |
| 5+28 ⁶⁰ | | | | | |
| E | 2.0 | 425.8 | 421.80 | C 4.0 | |
| W | 4.6 | 423.2 | 421.10 | C 2.1 | |
| 5+48 ⁶⁰ | | | | | |
| E | 0.8 | 427.0 | 421.70 | C 5.3 | |
| W | 3.9 | 423.9 | 421.00 | C 2.7 | |
| 5+68 ⁶⁰ | 430.2 | | | | |
| E | 2.4 | 427.8 | 421.40 | C 6.4 | |
| W | 6.0 | 424.2 | 420.70 | C 3.5 | |
| 6+17 ⁸⁵ | | | | | |
| E | 3.2 | 247.6 | 420.46 | C 6.5 | |
| W | 7.0 | 423.2 | 419.86 | C 3.3 | |
| 6+67 ¹⁰ | | | | | |
| E | 10.73 | 419.47 | 419.52 | | |
| W | 11.22 | 418.98 | 419.02 | | |

Grade stakes 55th Madison to Adams

15



| Sta | El | El | grade |
|------|--------|--------|--------------|
| 0+10 | | | |
| E | | 427.3 | |
| 0+60 | | | |
| E | | 428.77 | |
| 1+10 | | | |
| E | | 430.25 | |
| 1+60 | | | |
| E | | 430.87 | |
| 2+10 | | | |
| E | | 431.99 | |
| 2+50 | | | |
| 2 E | | 432.0 | |
| 3+00 | | | |
| E | | 432.75 | |
| 3+50 | | | |
| E | | 433.37 | |
| 4+00 | 441.73 | | |
| E | 4.3 | 437.4 | 434.00 c 3.4 |
| W | 8.30 | 433.43 | 433.50 |
| 4+40 | | | |
| E | 3.8 | 437.9 | 434.50 c 3.4 |
| W | 8.2 | 433.65 | 434.00 F 0.5 |
| 4+90 | | | |
| E | 4.2 | 437.5 | 434.19 c 3.3 |
| W | 7.8 | 433.9 | 433.69 c 0.2 |

Grade stakes 55th Adams to Redland Dr.

| | 448.0 | E1 | grade | |
|------|-------|-------|--------|-------|
| 0+10 | | | | |
| E | 9.2 | 438.8 | 435.37 | C 3.4 |
| W | 12.6 | 435.4 | 434.4 | C 1.0 |
| 0+61 | | | | |
| E | 7.1 | 440.9 | 437.27 | C 3.6 |
| W | 10.5 | 437.5 | 436.60 | C 0.9 |
| 0+81 | | | | |
| E | 6.5 | 441.5 | 437.90 | C 3.6 |
| W | 10.1 | 437.9 | 437.40 | C 0.5 |
| 1+01 | | | | |
| E | 6.0 | 442.0 | 438.5 | C 3.5 |
| W | 9.6 | 438.4 | 438.0 | C 0.4 |
| 1+21 | | | # | |
| E | 5.4 | 442.6 | 439.0 | C 3.6 |
| W | 9.0 | 439.0 | 438.5 | C 0.5 |
| 1+41 | | | | |
| E | 5.4 | 442.6 | 439.4 | C 3.2 |
| W | 8.6 | 439.4 | 438.9 | C 0.5 |
| 1+61 | | | | |
| E | 5.7 | 442.3 | 439.7 | C 2.6 |
| W | 8.5 | 439.5 | 439.2 | C 0.3 |
| 1+81 | | | | |
| E | 5.6 | 442.4 | 440.0 | C 2.4 |
| W | 8.5 | 439.5 | 439.4 | C 0.1 |

448
9.2
438.8
435.7
C 3.1
448
12.6
435.4
434.4
C 1.0

| | 448.0 | E1 | grade | |
|--------------------|-------|-------|--------|-------|
| 2+42 ⁵⁰ | 448.0 | E1 | grade | |
| W | 8.5 | 439.5 | 439.95 | F 0.4 |
| 2+50 | | | | |
| E | 4.3 | 443.7 | 440.5 | C 3.2 |
| 2+90 | | | | |
| E | 3.8 | 444.2 | 440.5 | C 3.7 |
| 2+97 ⁵⁰ | | | | |
| W | 7.9 | 440.1 | 439.96 | C 0.1 |
| 3+50 | | | | |
| E | 3.7 | 444.3 | 440.20 | C 4.1 |
| W | 8.1 | 439.9 | 439.68 | C 0.2 |
| 4+00 | | | | |
| E | 3.8 | 444.2 | 439.95 | C 4.3 |
| W | 8.2 | 439.8 | 439.42 | C 0.4 |
| 4+50 | | | | |
| E | 4.4 | 443.6 | 439.70 | C 3.9 |
| W | 8.9 | 439.1 | 439.16 | F 0.1 |
| 5+00 | | | | |
| E | 5.3 | 442.7 | 439.45 | C 3.3 |
| W | 9.7 | 438.3 | 438.90 | F 0.6 |
| 5+50 | | | | |
| E | 5.8 | 442.2 | 439.20 | C 3.0 |
| W | 11.0 | 437.0 | 438.64 | F 1.6 |
| 6+00 | | | | |
| E | 4.8 | 442.0 | 438.95 | C 3.1 |
| W | 10.9 | 437.1 | 438.38 | F 1.3 |

BALSATHA NEW 55th Redland

438.28
+ 9.70
447.98
- 10.86
437.12
+ 9.65
446.77
- 11.81
434.96
+ 2.23
437.19
434.76
12.48
447.44
9.22
438.22

55th Redland Dr. to SL Lot 17
Marcelena Tract.

| | | | | |
|--------------------|-------|-------|--------|-------|
| | 446.8 | | | |
| 6+50 | | | | |
| E | 3.4 | 443.4 | 438.70 | c 4.7 |
| W | 1.8 | 437.0 | 438.12 | F 1.1 |
| 6+91.4 | | | | |
| E | 4.9 | 441.9 | 438.50 | c 3.4 |
| 7+05 ⁵⁹ | | | | |
| W | 9.9 | 436.9 | 437.8 | F 0.9 |

| | | | | |
|------|------|-------|--------|-------|
| 0+00 | | | | |
| W | 10.5 | 436.3 | 436.60 | F 0.3 |
| E | 7.7 | 439.1 | 436.80 | c 2.3 |
| E | 8.3 | 438.5 | 436.20 | c 2.3 |
| W | 10.7 | 436.1 | 435.80 | c 0.3 |
| E | 10.0 | 436.8 | 435.0 | c 1.7 |
| W | 11.6 | 435.2 | 434.7 | c 0.6 |
| E | 12.2 | 434.6 | 433.8 | c 1.0 |
| W | 12.7 | 434.1 | 433.5 | c 0.7 |
| E | 4.9 | 432.3 | 432.6 | c 0.0 |
| W | 4.0 | 433.2 | 432.7 | c 1.0 |
| E | 14.9 | 422.3 | 429.5 | F 6.7 |
| W | 7.4 | 429.8 | 429.0 | c 0.8 |

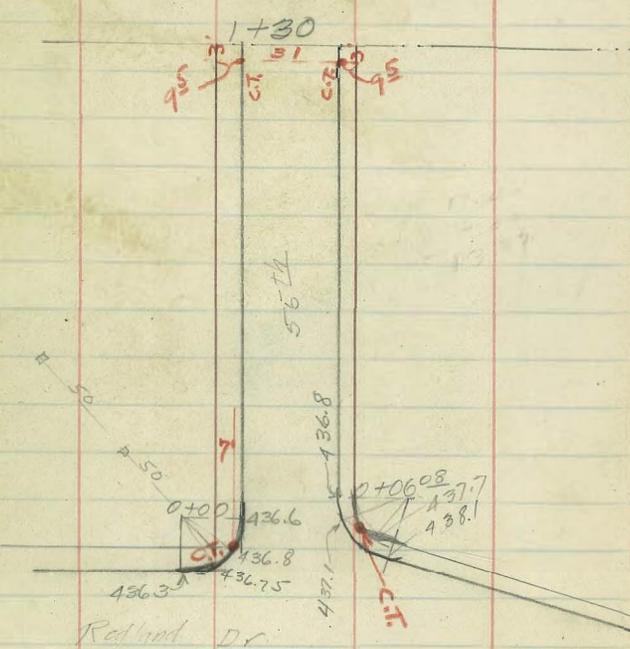
446.8
10.0
436.8
437.8
F 0.8

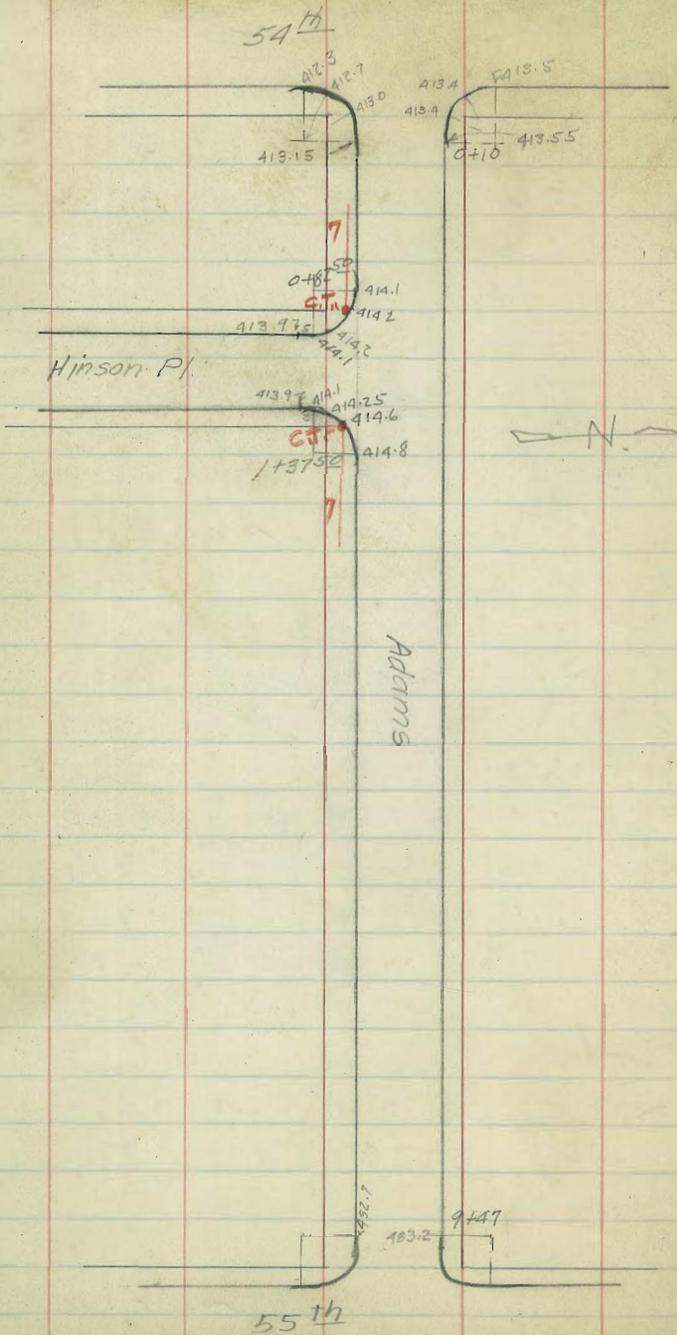
446.8
4.3
442.5
437.1
c 3.4

446.8
1.4
445.4
444.0
c 1.4

446.8
7.0
439.8
438.1
c 1.7

446.8
10.2
436.6
436.8
F 0.2





Adams - 54th to 55th

| Sta. | El | grade | |
|---------|-------|-------|--------------|
| 0+10 | 423.5 | | |
| N | 7.6 | 415.9 | 413.55 c 2.3 |
| S | 9.3 | 414.2 | 413.15 c 1.1 |
| 0+50 | | | |
| N | 7.0 | 416.5 | 414.08 c 2.4 |
| S | 8.3 | 415.2 | 413.67 c 1.5 |
| 0+82.50 | | | |
| N | 6.6 | 416.9 | 414.50 c 2.4 |
| S | 7.8 | 415.7 | 414.10 c 1.6 |
| 1+37.50 | | | |
| N | 5.8 | 417.7 | 415.2 c 2.5 |
| S | 7.1 | 416.4 | 414.8 c 1.6 |
| 2+00 | | | |
| N | 5.6 | 417.9 | 416.05 c 1.9 |
| S | 7.3 | 416.2 | 415.55 c 0.6 |
| 2+50 | | | |
| N | 5.4 | 418.1 | 416.71 c 1.4 |
| S | 7.4 | 416.1 | 416.21 F 0.1 |
| 3+00 | | | |
| N | 5.5 | 418.0 | 417.38 c 0.6 |
| S | 6.5 | 417.0 | 416.88 c 0.1 |
| 3+50 | | | |
| N | 5.2 | 418.3 | 418.04 c 0.3 |
| S | 5.2 | 418.3 | 417.54 c 0.8 |

BM 418.72
 + 4.73
 423.45
 - 1.50
 421.95
 + 12.46
 434.41
 - 1.28
 433.13
 + 7.70
 440.83
 2.38
 438.45

Adams - 54th to 55th

| | | | | |
|------|-----------------|-------|--------|------|
| 549 | 423.5 | E1 | grade | |
| 4+00 | | | | |
| N | 4.2 | 419.3 | 418.71 | C0.6 |
| S | 4.0 | 419.5 | 418.51 | C1.0 |
| 4+50 | | | | |
| N | 3.4 | 420.1 | 419.37 | C0.7 |
| S | 3.2 | 420.3 | 418.87 | C1.4 |
| 5+00 | | | | |
| N | 2.7 | 420.8 | 420.04 | C0.8 |
| S | 2.4 | 421.1 | 419.54 | C1.6 |
| 5+50 | | | | |
| N | 1.4 | 422.1 | 420.70 | C1.4 |
| S | 2.0 | 421.5 | 420.20 | C1.3 |
| 6+00 | | | | |
| N | 1.5 | 422.0 | 421.37 | C0.6 |
| S | 1.8 | 421.7 | 420.87 | C0.8 |
| 6+47 | 434.4 E.V.C. | | | |
| N | 12.0 | 422.4 | 422.00 | F0.4 |
| S | 12.6 | 421.8 | 421.50 | C0.3 |
| 6+67 | | | | |
| N | 11.8 | 422.6 | 422.25 | C0.3 |
| S | 12.6 | 421.8 | 421.90 | F0.1 |
| 6+87 | | | | |
| N | 11.3 | 423.1 | 422.8 | C0.3 |
| S | 12.4 | 422.0 | 422.4 | F0.4 |

Adams 54th 55th

20

| | | | | |
|------|--------|-------|--------|------|
| 7+07 | 434.4 | E1 | grade | |
| N | 10.8 | 423.6 | 423.4 | C0.2 |
| S | 10.8 | 423.6 | 423.0 | C0.6 |
| 7+27 | E.V.C. | | | |
| N | 9.92 | 424.5 | 424.20 | C0.3 |
| S | 10.2 | 424.2 | 423.70 | C0.5 |
| 7+71 | | | | |
| N | 7.8 | 426.6 | 426.0 | C0.6 |
| S | 9.5 | 424.9 | 425.5 | F0.6 |
| 8+15 | | | | |
| N | 5.4 | 429.0 | 429.8 | C1.2 |
| S | 7.2 | 427.2 | 427.3 | F0.1 |
| 8+59 | | | | |
| N | 3.0 | 431.4 | 429.6 | C1.8 |
| S | 5.9 | 428.5 | 429.1 | F0.6 |
| 9+03 | | | | |
| N | 1.3 | 433.1 | 431.4 | C1.7 |
| S | 2.5 | 431.9 | 430.9 | C1.0 |
| 9+47 | 440.8 | | | |
| N | 5.6 | 435.2 | 433.2 | C2.0 |
| S | 7.5 | 433.3 | 432.7 | C0.6 |

| | |
|---------------------|---------------------------|
| Send W inlet 416.18 | E end - 408.8 |
| N " " " 416.13 | 406.5 |
| Send E inlet 416.32 | FL E inlet - 403.1 celine |
| N " " " 416.21 | FL W " - 400.64 celine |
| | 397.83 |
| | w end - 395.0 |

422.31
2.39
424.70

| | | |
|---------------|---------------|--------|
| 424.70 | 424.70 | |
| 11.13 | 10.19 | |
| <u>413.52</u> | <u>414.51</u> | |
| 416.21 | 416.32 | 414.51 |
| 2.69 | F 1.81 | 403.1 |
| | | 11.41 |

| | | |
|---------------|---------------|---------------|
| 424.70 | 413.70 | 424.70 |
| 11.00 | 400.6 | 12.71 |
| <u>413.70</u> | <u>413.70</u> | <u>411.99</u> |
| 416.18 | | 416.13 |
| F 2.48 | | F 4.14 |

| | |
|---------------|--------------|
| 424.70 | 424.70 |
| 15.7 | 14.2 |
| <u>409.00</u> | <u>410.5</u> |
| 406.5 | 408.8 |
| c 2.5 | c 1.7 |

| | |
|---------------|--------------|
| 424.70 | 412.70 |
| 12.53 | 16.3 |
| <u>411.87</u> | <u>396.4</u> |
| 40.82 | 395.0 |
| 412.70 | c 1.4 |
| 13.51 | |
| <u>399.4</u> | |
| 397.8 | |
| c 1.4 | |

| | |
|-----------------------------|---------------|
| E end of North inlet 412.45 | B.M. 438.28 |
| W " " " " 412.40 | +4.29 |
| E end of South inlet 412.95 | 425.54 |
| W " " " " 412.90 | 12.87 |
| | <u>438.41</u> |
| | 0.15 |
| | <u>429.53</u> |
| | 4.006 |
| | 438.26 |
| | 429.59 |
| | -12.95 |
| | 416.64 |
| | +0.77 |
| | 417.41 |
| | 2.71 |
| | 414.70 |
| | 8.81 |
| | 423.51 |
| | 4.94 |
| | B.M. 418.57 |
| | 423.51 |
| | 5.64 |
| | 417.87 |
| | 8.23 |
| | 426.10 |
| | 0.56 |
| | 425.54 |
| | 5.12 |
| | 412.29 |
| | 412.95 |
| | 407.50 |
| | F 6.66 |
| | F 0.51 |

South end of Colvert No 5 - 406.9
at south celine 401.12
at North " " 394.9
North end 381.4

FL North inlet 406.5
FL South inlet 407.5

| | | |
|--------------|--------------|--------------|
| 417.41 | 417.41 | 417.41 |
| 6.0 | 4.2 | 7.0 |
| <u>411.4</u> | <u>413.2</u> | <u>410.4</u> |
| 406.9 | 401.1 | 394.9 |
| c 4.5 | c 12.1 | c 15.5 |

| | | |
|---------------|---------------|---------------|
| 417.41 | 417.41 | 417.41 |
| 5.24 | 6.72 | 7.82 |
| <u>412.32</u> | <u>410.69</u> | <u>409.59</u> |
| 412.90 | 412.40 | 412.45 |
| F 0.58 | F 1.71 | F 2.86 |

| | |
|--------------|-------|
| 417.4 | 386.0 |
| 31.4 | 7.0 |
| <u>386.0</u> | 393.0 |
| 381.4 | 2.7 |
| c 4.6 | 390.3 |
| | 387.6 |
| | c 2.7 |

| | |
|--------|--------|
| 409.59 | 417.55 |
| 406.50 | 412.40 |
| c 3.09 | 5.15 |

| |
|--------|
| 417.55 |
| 412.45 |
| 412.32 |
| 5.23 |
| 417.55 |
| 412.95 |
| 4.60 |

Redland Drive

| | 447.27 | E1 | grade | |
|--------------------|--------------|-------|--------|-------|
| 0+00 | | | | |
| E | 7.5 | 439.8 | 438.1 | c 1.7 |
| 0+43 ⁹⁶ | | | 441.0 | |
| W | | | | |
| 0+65 ⁵⁴ | BVC | | | |
| E | 4.2 | 443.1 | 442.20 | c 0.9 |
| W | 2.2 | 445.1 | 442.50 | c 2.6 |
| 0+85 ⁵⁴ | | | | |
| E | 3.7 | 443.6 | 443.40 | c 0.2 |
| W | 2.9 | 444.4 | 443.10 | c 1.3 |
| 1+05 ⁵⁴ | 452.5 5.0 | 447.5 | | |
| E | 2.6 | 444.7 | 444.2 | c 0.5 |
| W | 5.0 | 447.5 | 444.6 | c 2.9 |
| 1+25 ⁵⁴ | | | | |
| E | 2.5 | 444.8 | 444.8 | c 0.0 |
| W | 452.5 4.6 | 447.9 | 445.1 | c 2.8 |
| 1+45 ⁵⁴ | | | | |
| E | 2.42 | 444.8 | 445.1 | F 0.3 |
| W | 452.5 4.0 | 448.5 | 445.5 | c 3.0 |
| 1+65 ⁵⁴ | 452.5 | | | |
| E | 8.8 | 444.4 | 445.1 | F 0.7 |
| W | 3.8 | 448.7 | 445.6 | c 3.1 |
| 1+85 ⁵⁴ | EVC | | | |
| E | 8.4 | 444.1 | 445.0 | F 0.9 |
| W | 4.4 | 448.1 | 445.4 | c 2.7 |

| | 452.5 | E1 | grade | |
|--------------------|-------|-------|--------|-------|
| 1+76 ³⁹ | | | | |
| W | | | 445.5 | |
| 1+98 ⁰³ | | | | |
| W | | | 445.2 | |
| 2+35 ⁵⁴ | | | | |
| E | 9.8 | 442.7 | 444.17 | F 1.5 |
| W | 4.9 | 447.6 | 444.47 | c 3.1 |
| 2+85 ⁵⁴ | | | | |
| E | 11.4 | 441.1 | 443.34 | F 2.2 |
| W | 5.3 | 447.2 | 443.54 | c 3.7 |
| 3+35 ⁵⁴ | BVC | | | |
| E | 13.3 | 339.2 | 442.50 | F 3.3 |
| W | 5.8 | 446.7 | 442.60 | c 4.1 |
| 3+55 ⁵⁴ | | | | |
| E | 14.0 | 438.5 | 442.20 | F 3.7 |
| W | 6.2 | 446.3 | 442.30 | c 4.0 |
| 3+75 ⁵⁴ | | | | |
| E | 14.2 | 438.3 | 442.00 | F 3.7 |
| W | 6.4 | 446.1 | 442.10 | c 4.0 |
| 3+95 ⁵⁴ | | | | |
| E | 14.0 | 438.5 | 442.00 | F 3.5 |
| W | 6.5 | 446.0 | 442.10 | c 3.9 |
| 4+15 ⁵⁴ | | | | |
| E | 14.0 | 438.5 | 442.10 | F 3.6 |
| W | 6.0 | 446.5 | 442.30 | c 4.2 |

| | | | | | |
|--------------------------------------------|---------------|-------|--------|-------|--|
| | 452.5 | E1 | grade | | |
| 4435 ^{5A} | | | | | |
| E | 12.9 | 439.6 | 442.30 | F 2.7 | |
| W | 6.0 | 446.5 | 442.60 | C 3.9 | |
| 4455 ^{5A} | | | | | |
| | E.C.C. | | | | |
| E | 12.8 | 439.7 | 442.70 | F 3.0 | |
| W | 5.9 | 446.6 | 443.10 | C 3.5 | |
| 5402 ²⁴ = 4783 ⁶⁵ | | | | | |
| E | 10.4 | 442.1 | 443.62 | F 1.5 | |
| W | 4.6 | 447.9 | 443.88 | C 4.0 | |
| 5409 ⁸⁴ = 511 ⁸² | | | | | |
| E | 457.8 14.5 | 443.3 | 444.54 | F 1.2 | |
| W | 4.0 | 448.5 | 444.66 | C 3.8 | |
| 5496 ²⁴ = 5439 ⁹⁶ | 457.8 | | | | |
| E | 14.3 | 443.5 | 445.46 | F 2.0 | |
| W | 8.2 | 449.6 | 445.44 | C 4.2 | |
| 6493 ¹⁵ = 5468 ¹² | | | | | |
| | E.C. | | | | |
| E | 7.6 | 450.2 | 446.20 | C 3.8 | |
| W | 13.6 | 444.2 | 446.20 | F 2.0 | |
| 6479 ⁸⁴ | | | | | |
| E | 11.7 | 446.1 | 447.1 | F 1.0 | |
| W | 6.5 | 449.3 | 447.15 | C 4.2 | |
| 7416 ^{5A} | | | | | |
| E | 10.7 | 447.1 | 447.8 | F 0.7 | |
| W | 5.7 | 452.3 | 448.1 | C 4.0 | |

B.M. - 434.96
 12.31
 447.27
 - 2.42
 444.85
 + 7.64
 452.49
 - 4.05
 448.44
 + 9.37
 457.81
 - 6.43
 451.38
 + 2.81
 454.19
 - 9.66
 444.53
 + 2.06
 446.59
 - 8.33
 438.26

438.28
 10.14
 448.42
 - 0.70
 447.72
 + 10.62
 458.34

3+40²⁰

El Cerrito

3+29⁶⁶

1+70

1+50

0+10

3+10

1+70

Alley

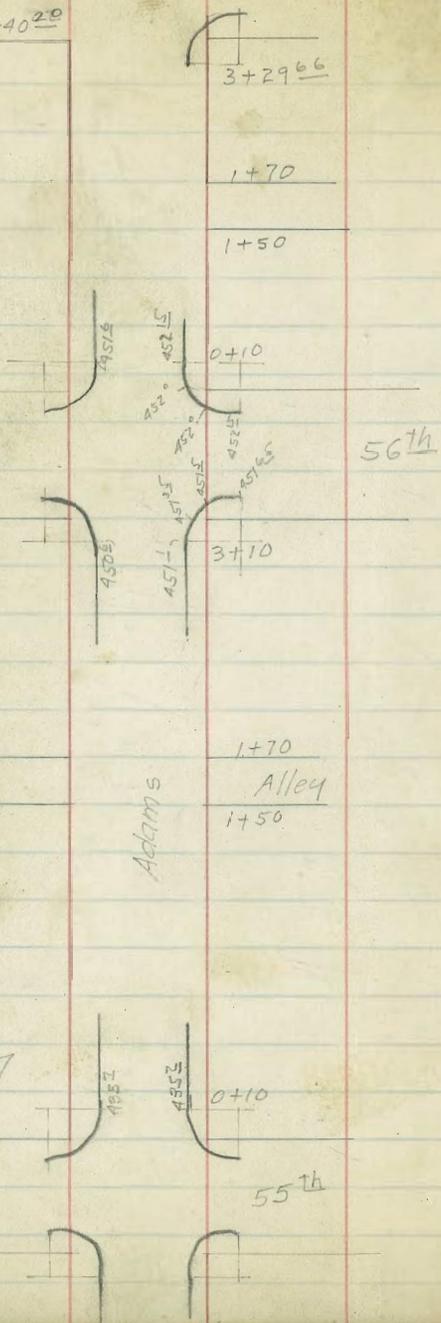
1+50

0+10

55th

Adams

56th



Adams Ave 55th to El Cerrito

448.4

26

| | El. | Grade | |
|----------|-------|-------|--------------|
| 0+10 | | | |
| N | | 435.7 | |
| S | | 435.2 | |
| 0+60 | | | |
| N | 6.8 | 441.6 | 439.15 c 2.5 |
| S | 8.1 | 440.3 | 438.70 c 1.6 |
| 1+10 BVC | | | |
| N | 4.6 | 443.8 | 442.60 c 1.2 |
| S | 5.0 | 443.4 | 442.20 c 1.2 |
| 1+30 | | | |
| N | 3.5 | 444.9 | 443.90 c 1.0 |
| S | 3.2 | 445.2 | 443.50 c 1.7 |
| 1+50 | | | |
| N | 2.4 | 446.0 | 445.00 c 1.0 |
| S | 2.2 | 446.2 | 444.60 1.6 |
| 1+70 | | | |
| N | 1.1 | 447.3 | 446.00 c 1.3 |
| S | 1.6 | 446.8 | 445.60 c 1.2 |
| 1+90 | | | |
| N | 0.5 | 447.9 | 446.80 c 1.1 |
| S | 0.7 | 447.7 | 446.50 c 1.2 |
| 2+40 | 458.3 | | |
| N | 9.6 | 448.7 | 448.40 c 0.3 |
| S | 9.0 | 449.3 | 448.40 c 0.9 |
| 2+90 | | | |
| N | 7.7 | 450.6 | 450.00 c 0.6 |
| S | 7.3 | 451.0 | 450.30 c 0.7 |

| | | EI | Grade | | 3+40.02 |
|--------|-------|-------|--------|-------|-----------------------------------------|
| 3+10 | 458.3 | | | | |
| N | 7.2 | 451.1 | 450.60 | c 0.5 | N 455.50 |
| S | 7.1 | 451.2 | 451.10 | c 0.1 | |
| 0+10 | | | | | 458.3 6.8 451.5 451.6 FO.1 |
| N | 4.3 | 454.0 | 451.60 | c 2.4 | |
| S | 5.4 | 452.9 | 452.15 | c 0.8 | |
| 0+50 | | | | | 458.3 5.5 452.8 451.1 c 0.7 |
| N | 4.8 | 453.5 | 452.10 | c 1.4 | |
| S | 5.1 | 453.2 | 452.60 | c 0.6 | |
| 1+00 | | | | | 458.34 2.88 455.46 |
| N | 4.0 | 454.3 | 452.7 | c 1.6 | |
| S | 4.3 | 454.0 | 453.2 | c 0.8 | |
| 1+50 | | | | | |
| N | 4.4 | 453.9 | 453.3 | c 0.6 | |
| S | 3.4 | 454.9 | 453.8 | c 1.1 | |
| 1+90 | | | | | |
| N | 4.0 | 454.3 | 453.54 | c 0.8 | |
| S | 3.0 | 455.3 | 454.04 | c 1.3 | |
| 2+20 | | | | | |
| N | 3.3 | 455.0 | 454.10 | c 0.9 | |
| S | 2.2 | 456.1 | 454.60 | c 1.5 | |
| 2+70 | | | | | |
| N | 3.4 | 454.9 | 454.74 | c 0.2 | |
| S | 1.7 | 456.6 | 455.24 | c 1.4 | |
| 3+2966 | 58 | | 455.88 | | |
| S | 1.58 | 456.8 | 455.88 | c 0.9 | |

27

Culvert No. 1 on 55 at NL Railroad Garden 3

| | | |
|----------------|--------|---------------|
| E end | 415.7 | 434.96 - B.M. |
| Center | 417.35 | 1.21 |
| | | 436.17 |
| W end (FL box) | 423 | |
| N end inlet | 429.00 | 436.17 |
| S end inlet | 429.67 | 6.43 |
| | | 429.89 |
| | | 429.67 |
| | | 60.89 |
| | 436.2 | 436.37 |
| | 112.9 | 6.89 |
| | 423.3 | 2.8 |
| | 419.3 | 43 |
| | 4.0 | 429.28 |
| | | 423.00 |
| | | 6.28 |
| | 436.2 | |
| | 14.3 | |
| | 419.7 | |
| | 415.7 | |
| | c 4.2 | |

Culvert No. 2 on 56 30 of Madison.

| | | |
|---------------|--------|-------------|
| N end Inlet | 440.9 | B.M. 440.88 |
| S " " | 440.9 | 5.24 |
| | | 446.12 |
| FL inlet | 436.5 | |
| W end Culvert | 434.5 | 446.12 |
| | | 5.33 |
| | | 440.79 |
| | | 440.79 |
| | | 440.90 |
| | | FO.11 |
| | 446.12 | 440.79 |
| | 5.25 | 436.5 |
| | 440.87 | 11.65 |
| | 440.90 | 434.47 |
| | 0.03 | |

$$\begin{array}{r} 432.1 \\ 429.0 \text{ .061} \\ \hline 50.6 \end{array}$$

$$\begin{array}{r} 3.100 \\ 3036 \\ \hline 8640 \end{array}$$

$$\begin{array}{r} 50.6 \\ 17 \\ \hline 39.6 \\ 61 \\ \hline 396 \\ 2376 \\ \hline 24156 \\ 429.67 \\ \hline 432.08 \end{array}$$

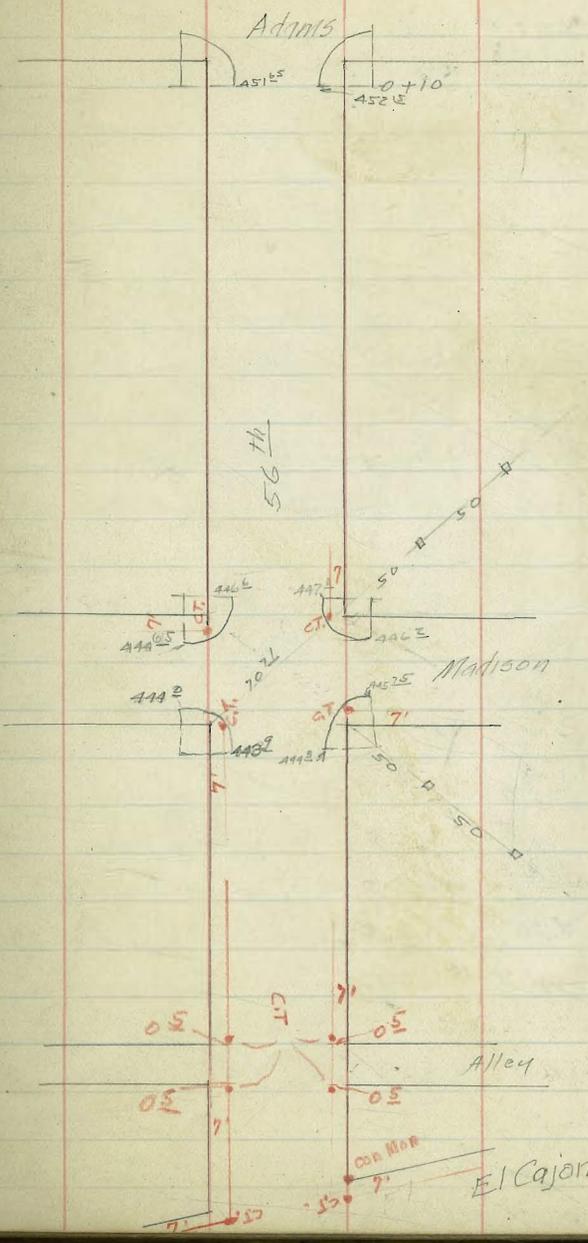
$$\begin{array}{r} 391 \overline{) 14.70} \\ 1324 \\ \hline 1460 \end{array}$$

$$\begin{array}{r} 438.28 \\ 15 \\ \hline 438.13 \\ 35 \\ \hline 2007 \\ 9 \\ \hline 4 \\ \hline 8 \end{array}$$

$$\begin{array}{r} 498.43 \\ 11 \\ \hline 61 \\ 61 \\ \hline .671 \end{array}$$

$$\begin{array}{r} 452.15 \\ 47 \\ \hline 452.62 + 50 \\ 58 \\ \hline 453.20 + 100 \\ 58 \\ \hline 453.78 + 50 \\ 58 \\ \hline 454.36 + 100 \\ 58 \\ \hline 454.94 + 150 \\ 58 \\ \hline 455.52 + 300 \\ 48 \\ \hline 456.00 + 40 \end{array}$$

$$\begin{array}{r} .0117 \\ 4680 \\ \hline .011750 \\ 15850 \end{array}$$



56th Adams to Madison

| | 460.4 | E1 | grade | |
|------|--------------|-------|--------|-------|
| 0+10 | | | | |
| E | 7.4 | 453.0 | 452.15 | C 0.9 |
| W | 8.6 | 451.8 | 451.65 | C 0.2 |
| 0+50 | | | | |
| E | 7.0 | 453.4 | 452.62 | C 0.8 |
| W | 8.4 | 452.0 | 452.12 | F 0.1 |
| 1+00 | | | | |
| E | 5.8 | 454.6 | 453.20 | C 1.4 |
| W | 7.9 | 452.5 | 452.70 | F 0.2 |
| 1+50 | | | | |
| E | 5.2 | 455.2 | 453.78 | C 1.4 |
| W | 6.6 | 453.8 | 453.28 | C 0.5 |
| 2+00 | | | | |
| E | 4.5 | 455.9 | 454.36 | C 1.5 |
| W | 6.0 | 454.4 | 453.86 | C 0.5 |
| 2+50 | | | | |
| E | 3.7 | 456.7 | 454.94 | C 1.8 |
| W | 4.7 | 455.7 | 454.44 | C 1.3 |
| 3+00 | | | | |
| E | 3.8 | 456.6 | 455.52 | C 1.1 |
| W | 461.4 5.4 | 456.0 | 455.02 | C 1.0 |
| 3+40 | 461.4 | | | |
| E | 4.1 | 457.3 | 456.00 | C 1.3 |
| W | 5.0 | 456.4 | 455.50 | C 0.9 |
| 3+60 | | | | |
| E | 3.9 | 457.5 | 456.10 | C 1.4 |
| W | 5.1 | 455.9 | 455.60 | C 0.3 |

BM 438.43

- 13.23

451.46

- 0.63

450.83

+ 1.58

460.41

- 3.76

456.65

+ 4.76

461.41

- 8.22

453.19

BM NE 50'

710 Madison

2.56M

29

| | 461.4 | E1 | grade | |
|------|-------|-------|--------|-------|
| 3+80 | | | | |
| E | 4.5 | 456.9 | 456.10 | C 0.8 |
| W | 4.9 | 456.5 | 455.60 | C 0.9 |
| 4+00 | | | | |
| E | 4.5 | 456.9 | 455.90 | C 1.0 |
| W | 4.5 | 456.9 | 455.50 | C 1.4 |
| 4+20 | | | | |
| E | 5.1 | 456.3 | 455.60 | C 0.7 |
| W | 5.8 | 455.6 | 455.20 | C 0.4 |
| 4+40 | | | | |
| E | 5.3 | 456.1 | 455.00 | C 1.1 |
| W | 6.0 | 455.4 | 454.60 | C 0.8 |
| 4+60 | | | | |
| E | 5.8 | 455.6 | 454.20 | C 1.4 |
| W | 7.3 | 454.1 | 453.80 | C 0.3 |
| 4+80 | | | | |
| E | 6.6 | 454.8 | 453.30 | C 1.5 |
| W | 7.7 | 453.7 | 452.90 | C 0.6 |
| 5+00 | | | | |
| E | 6.7 | 454.5 | 452.30 | C 2.2 |
| W | 8.6 | 452.8 | 451.90 | C 0.9 |
| 5+50 | | | | |
| E | 8.7 | 452.7 | 449.40 | C 3.3 |
| W | 11.5 | 449.9 | 448.95 | C 1.0 |
| 5+90 | | | | |
| E | 11.3 | 450.1 | 447.10 | C 3.0 |
| W | 14.1 | 447.3 | 446.60 | C 0.7 |

56th Madison to El Cajon

| | 454.4 | El | grade | | BM. 453.11 |
|------|-------|-------|--------|-------|-----------------------------------------------------|
| 0+10 | | | | | 1.25 41.454.44 |
| E | 7.8 | 446.6 | 444.30 | C 2.3 | 12.45 411.79 |
| W | 10.3 | 444.1 | 444.00 | C 0.1 | + 6.61 448.60 |
| 0+30 | | | | | -10.93 |
| E | 8.9 | 445.5 | 443.6 | C 1.9 | 437.67 |
| W | 11.3 | 443.1 | 443.1 | C 0.0 | BM. Nails 2816 NE 56 th S El Cajon |
| 0+50 | | | | | |
| E | 9.8 | 444.6 | 442.9 | C 1.7 | |
| W | 11.8 | 442.6 | 442.4 | C 0.2 | 437.13 0.18 |
| 0+70 | | | | | 437.31 |
| E | 10.3 | 444.1 | 442.3 | C 1.8 | -10.87 426.44 |
| W | 12.7 | 441.7 | 441.8 | F 0.1 | 3.20 429.64 |
| 0+90 | | | | | 7.32 422.32 |
| E | 10.5 | 443.9 | 441.9 | C 2.0 | |
| W | 13.8 | 440.6 | 441.4 | F 0.8 | |
| 1+10 | | | | | |
| E | 10.6 | 443.8 | 441.6 | C 2.2 | |
| W | 14.5 | 439.9 | 441.1 | F 1.2 | |
| 1+30 | | | | | |
| E | 11.0 | 443.4 | 441.6 | C 2.0 | |
| W | 15.0 | 439.4 | 440.9 | F 1.5 | |
| 1+50 | | | | | |
| E | 10.5 | 443.9 | 441.4 | C 2.5 | |
| W | 15.2 | 439.2 | 440.9 | F 1.7 | |

| | 454.4 | El | grade | | |
|------|--------|-------|-------|-------|--|
| 1+70 | | | | | |
| E | 10.4 | 444.0 | 441.5 | C 2.5 | |
| W | 15.6 | 438.8 | 441.1 | F 2.3 | |
| 1+90 | | | | | |
| E | 10.2 | 444.2 | 441.8 | C 2.4 | |
| W | 15.5 | 438.9 | 441.4 | F 2.5 | |
| 2+50 | | | | | |
| E | 8.8 | 445.6 | 442.8 | C 2.8 | |
| W | 13.3 | 441.1 | 442.3 | F 1.2 | |
| 3+00 | | | | | |
| E | 7.8 | 446.6 | 443.7 | C 2.9 | |
| W | 12.4 | 442.0 | 443.1 | F 1.1 | |
| 3+30 | 448.60 | | | | |
| E | 1.9 | 446.7 | 444.2 | C 2.5 | |
| W | 6.0 | 442.6 | 443.6 | F 1.0 | |
| 3+50 | | | | | |
| E | 1.3 | 447.3 | 444.4 | C 2.7 | |
| W | 5.8 | 442.8 | 443.9 | F 1.1 | |
| 3+70 | | | | | |
| E | 1.7 | 446.9 | 444.5 | C 2.4 | |
| W | 5.9 | 442.7 | 444.1 | F 1.4 | |
| 3+90 | | | | | |
| E | 1.4 | 447.2 | 444.6 | C 2.6 | |
| W | 5.8 | 442.8 | 444.2 | F 1.4 | |

| | 448.6 | E1 | grade | |
|------|-------|-------|--------|-------|
| 4+10 | | | | |
| E | 1.6 | 447.0 | 444.6 | C 2.4 |
| W | 6.0 | 442.6 | 444.1 | F 1.5 |
| 4+30 | | | | |
| E | 1.9 | 446.7 | 444.5 | C 2.2 |
| W | 6.2 | 442.4 | 444.0 | F 1.6 |
| 4+50 | | | | |
| E | 2.0 | 446.6 | 444.3 | C 2.3 |
| W | 6.3 | 442.3 | 443.7 | F 1.4 |
| 4+70 | | | | |
| E | 1.9 | 446.7 | 443.9 | C 2.8 |
| W | 6.3 | 442.3 | 443.3 | F 1.0 |
| 4+90 | | | | |
| E | 2.2 | 446.4 | 443.5 | C 2.9 |
| W | 6.6 | 442.0 | 442.9 | F 0.9 |
| 5+50 | | | | |
| E | 4.5 | 444.1 | 442.0 | C 2.1 |
| W | 7.4 | 441.2 | 441.4 | F 0.2 |
| 6+00 | | | | |
| E | 6.3 | 442.3 | 440.71 | C 1.6 |
| W | 9.4 | 439.2 | 440.15 | F 0.9 |
| 6+20 | | | | |
| E | 6.9 | 441.7 | 440.20 | C 1.5 |
| W | 10.0 | 438.6 | 439.65 | F 1.0 |
| 6+50 | | | | |
| E | 7.5 | 441.1 | 439.4 | C 1.7 |
| W | 11.1 | 437.5 | 438.9 | F 1.4 |

| | 448.6 | E1 | grade | |
|--------------------|-------|--------|--------|-------|
| 7+00 | | | | |
| E | 8.4 | 440.2 | 438.17 | C 2.0 |
| W | 12.2 | 436.4 | 437.65 | F 1.2 |
| 7+29 ⁷⁰ | | | | |
| E | 8.7 | 439.9 | 437.4 | C 2.5 |
| 7+49 ⁷⁰ | | | | |
| E | 9.4 | 439.2 | 437.1 | C 2.1 |
| W | 13.2 | 435.4 | 436.41 | F 1.0 |
| 7+94 ⁷⁰ | | | | |
| E | 11.47 | 437.13 | 437.1 | ✓ |
| 8+03 ³⁰ | | | 435.13 | |
| W | 13.40 | 435.2 | 435.13 | ✓ |

03.30
94.70
8.60

31

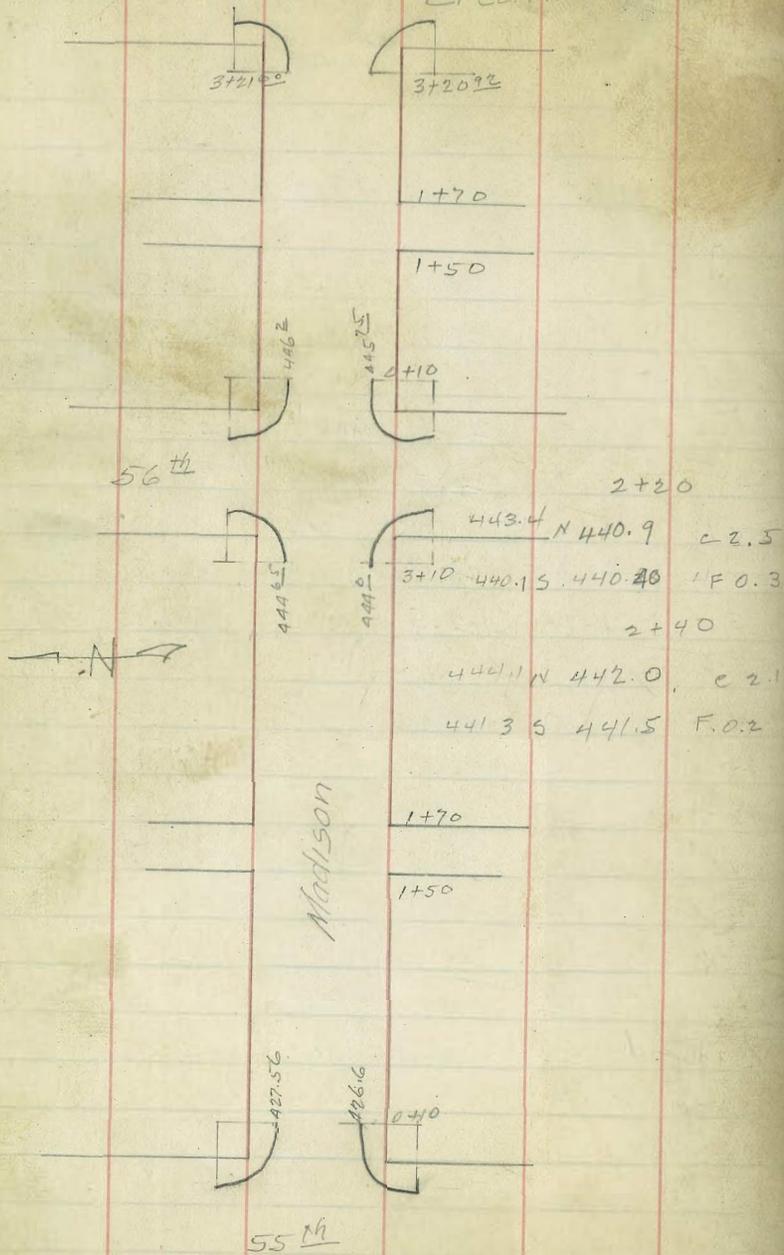
12.13
1.27
13.40

| | | El. | grade | | |
|------|-------|-------|-------|--------|----------|
| 4450 | 422.9 | | | | |
| N | 8.2 | 414.7 | 412.8 | C 1.9 | |
| S | 7.6 | 415.3 | 413.3 | C 2.0 | |
| 5400 | 417.3 | | | | |
| N | 3.7 | 413.6 | 412.6 | C 1.0 | |
| S | 2.4 | 414.9 | 413.1 | C 1.8 | |
| 5437 | | | | | |
| N | 26.7 | 390.6 | 412.4 | F 21.8 | out 31 |
| S | 3.8 | 413.5 | 412.9 | C 0.6 | |
| 5457 | | | | | |
| N | 32.9 | 384.4 | 412.4 | F 28.0 | out 40.6 |
| S | 4.0 | 413.3 | 412.9 | C 0.4 | |
| 5477 | | | | | |
| N | 25.8 | 391.5 | 412.6 | F 21.1 | out 31.4 |
| S | 1.5 | 415.8 | 413.1 | C 2.7 | |
| 5497 | | | | | |
| N | 14.4 | 402.9 | 413.0 | F 10.1 | out 13.5 |
| S | 9.4 | 407.9 | 413.5 | F 5.6 | out 6.0 |
| 6417 | | | | | |
| N | 11.7 | 405.6 | 413.6 | F 8.0 | out 12.0 |
| S | 6.7 | 410.6 | 414.1 | F 3.5 | |
| 6437 | | | | | |
| N | 2.0 | 415.3 | 414.4 | C 0.9 | |
| S | 2.7 | 414.4 | 414.9 | F 0.5 | |
| 6457 | 429.7 | | | | |
| N | 10.7 | 419.0 | 415.6 | C 3.4 | |
| S | 12.4 | 417.3 | 416.1 | C 1.2 | |

| | | El. | grade | | |
|------|-------|-------|--------|-------|--|
| 6477 | 429.7 | | | | |
| N | 6.6 | 421.1 | 417.0 | C 4.1 | |
| S | 10.5 | 419.2 | 417.4 | C 1.8 | |
| 6497 | | | | | |
| N | 6.7 | 423.0 | 418.5 | C 4.5 | |
| S | 9.0 | 420.7 | 418.95 | C 1.9 | |
| 7449 | | | | | |
| N | 4.3 | 425.4 | 422.7 | C 2.7 | |
| S | 5.7 | 424.0 | 423.0 | C 1.0 | |
| 8401 | | | | | |
| N | 1.3 | 428.4 | 426.9 | C 1.5 | |
| S | 2.2 | 427.5 | 427.1 | C 0.4 | |
| 8453 | 442.5 | | | | |
| N | 11.3 | 431.2 | 431.1 | C 0.1 | |
| S | 11.4 | 431.1 | 431.2 | F 0.1 | |
| 9405 | | | | | |
| N | 6.7 | 435.8 | 435.3 | C 0.5 | |
| S | 7.4 | 435.1 | 435.4 | F 0.3 | |
| 9452 | | | | | |
| N | 2.2 | 440.3 | 439.1 | C 1.2 | |
| S | 2.8 | 439.7 | 439.1 | C 0.6 | |

$$\begin{array}{r} 20.5 \\ 85.3 \\ \hline 52 \end{array}$$

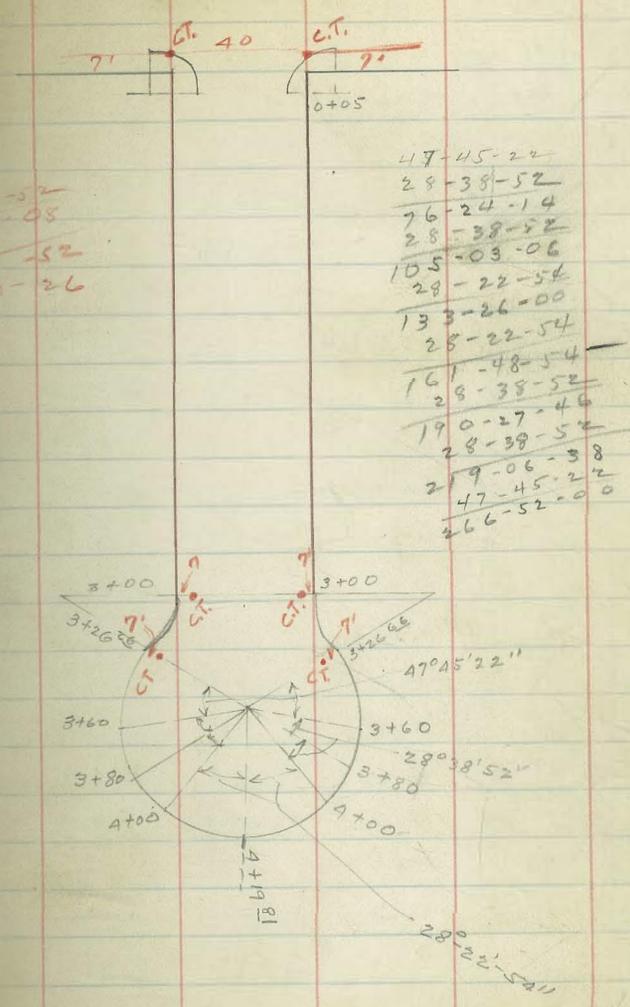
El Cerrito



Madison - 55th - El Cerrito

| | | El. | grade | | |
|------|-------|-------|------------------|-------|---------------|
| 0+10 | 442.2 | | | | |
| N | 11.8 | 430.4 | 427.56 | C 2.8 | 53.19 0.86 |
| S | 15.8 | 426.4 | 426.60 | F 0.2 | 4.05 12.73 |
| 0+50 | | | | | 41.12 1.06 |
| N | 10.9 | 431.3 | 430.10 | C 1.7 | 42.18 |
| S | 14.0 | 428.2 | 429.23 | F 1.0 | |
| 1+00 | | | | | |
| N | 7.7 | 434.5 | 433.27 | C 1.2 | 50 3.5 |
| S | 10.6 | 431.6 | 432.51 | F 0.8 | 1.05 |
| 1+50 | | | | | |
| N | 3.8 | 438.4 | 436.44 | C 2.0 | |
| S | 7.2 | 435.0 | 435.79 | F 0.8 | |
| 1+70 | | | | | 439.7 1.4 |
| N | 2.3 | 439.9 | 437.71 | C 2.2 | 440.1 |
| S | 5.6 | 436.6 | 437.10 | F 0.5 | 5.4 5.1 |
| 2+00 | 454.0 | | | | 441.6 3 |
| N | 12.9 | 441.1 | 439.61 | C 1.5 | |
| S | 15.3 | 438.7 | 439.07 | F 0.4 | 5.0 2 |
| 2+50 | | | | | |
| N | 10.1 | 443.9 | 442.2 | C 1.7 | 443.9 |
| S | 12.4 | 441.6 | 441.6 | | |
| 3+00 | | | | | 6.0 3.7 |
| N | 9.1 | 445.9 | 444.9 | C 1.2 | 2.3 441.7 |
| S | 10.2 | 443.8 | 444.2 | F 0.4 | 443.4 |
| 3+10 | | | | | |
| N | 7.4 | 446.6 | 445.10 | C 1.5 | |
| S | 9.9 | 444.1 | 444.5 | F 0.4 | |

| | | | | | |
|--------------------|-------|-------|--------|-------|-------------------|
| 0+10 | 460.9 | | | | |
| N | 11.1 | 449.8 | 446.2 | c 3.6 | EM 453.17 7.70 |
| S | 13.8 | 447.1 | 445.75 | c 1.4 | 460.89 |
| 0+20 | 10.3 | 50.6 | | | |
| N | 10.3 | 450.6 | 446.5 | c 4.1 | |
| 0+50 | | | | | |
| N | 9.0 | 451.9 | 447.75 | c 4.2 | |
| S | 12.5 | 448.4 | 447.5 | c 0.9 | |
| 1+00 | | | | | |
| N | 7.4 | 453.5 | 449.8 | c 3.7 | |
| S | 10.2 | 450.7 | 449.7 | c 1.0 | |
| 1+50 | | | | | |
| N | 5.6 | 455.3 | 451.9 | c 3.4 | |
| S | 8.0 | 452.9 | 452.0 | c 0.9 | N 459.45 |
| 1+70 | | | | | S 460.0 |
| N | 5.1 | 455.8 | 452.7 | c 3.1 | |
| S | 7.2 | 453.7 | 452.8 | c 0.9 | 460.89 1.45 |
| 2+00 | | | | | 459.44 |
| N | 4.3 | 456.4 | 454.0 | c 2.4 | |
| S | 6.1 | 454.8 | 454.2 | c 0.6 | |
| 2+50 | | | | | |
| N | 3.8 | 457.1 | 456.1 | c 1.0 | |
| S | 3.8 | 457.1 | 456.4 | c 0.7 | |
| 3+216 | | | | | |
| N | 1.8 | 459.1 | 459.2 | F 0.1 | |
| 3+209 ² | | | | | |
| S | 0.9 | 460.0 | 459.7 | c 0.3 | |



| | | | | |
|------|-------|-------|--------|-------|
| 0+05 | 420.8 | EI. | grade | |
| E | 4.5 | 416.3 | 414.1 | C 2.2 |
| W | 5.1 | 415.7 | 414.1 | C 1.6 |
| 0+45 | | | | |
| E | 6.1 | 414.7 | 412.35 | C 2.3 |
| W | 6.6 | 414.2 | 412.35 | C 1.8 |
| 0+90 | | | | |
| E | 9.3 | 411.5 | 410.35 | C 1.2 |
| W | 8.7 | 412.1 | 410.35 | C 1.8 |
| 1+35 | | | | |
| E | 11.6 | 409.2 | 408.35 | C 0.9 |
| W | 11.5 | 409.3 | 408.35 | C 1.0 |
| 1+80 | 410.0 | | | |
| E | 2.2 | 407.8 | 406.35 | C 1.5 |
| W | 3.3 | 406.7 | 406.35 | C 0.4 |
| 2+00 | | | | |
| E | 3.3 | 406.7 | 405.7 | C 1.0 |
| W | 4.5 | 405.5 | 405.7 | F 0.2 |
| 2+20 | | | | |
| E | 3.9 | 406.1 | 405.1 | C 1.0 |
| W | 5.6 | 404.4 | 405.1 | F 0.7 |
| 2+60 | | | | |
| E | 3.8 | 406.2 | 404.15 | C 2.1 |
| W | 5.8 | 404.2 | 404.15 | C 0.1 |
| 3+00 | | | | |
| E | 8.4 | 406.6 | 403.2 | C 3.3 |
| W | 6.0 | 404.0 | 403.2 | C 0.8 |

416.98
 3.81
 420.79
 -12.69
 408.10
 +1.92
 410.02
 -3.01
 407.01
 B.M.
 E End Pt
 End Hinson Pl.

| | | | | |
|--------------------|-------|-------|--------|-------|
| 3+26 ⁶⁶ | 410.0 | EI. | grade | |
| E | 3.7 | 406.3 | 402.85 | C 3.5 |
| W | 6.5 | 403.5 | 402.85 | C 0.7 |
| 3+60 | | | | |
| E | 5.6 | 404.4 | 402.4 | C 2.0 |
| W | 6.9 | 403.1 | 402.4 | C 0.7 |
| 3+80 | | | | |
| E | 7.2 | 402.8 | 402.1 | C 0.7 |
| W | 8.1 | 401.9 | 402.1 | F 0.2 |
| 4+00 | | | | |
| E | 8.6 | 401.4 | 402.0 | F 0.6 |
| W | 8.7 | 401.3 | 402.0 | F 0.7 |
| 4+19 ⁸¹ | 9.1 | 400.9 | 402.0 | F 1.1 |

Culvert No 8 at End of Hinson Pl.

| | | | | |
|----------------|--------|-------|--------------|-----------------------|
| S end Culvert | 387.0 | | | B.M. 407.01 +0.08 |
| 425 N | 391.6 | | | 407.09 |
| El. obline | 397.0 | | | 407.1 2.2 386.7 |
| Top ob | 402.0 | | | |
| 407.09 5.14 | 407.09 | 402.6 | 407.1 9.2 | 407.1 |
| 401.95 | 4.50 | 397 | 397.9 | 17.7 |
| 402.0 | 402.59 | 25.6 | 391.6 | 389.2 |
| FD .05 | 402 | | 2.2 | 387 |
| | 40.59 | | 2.2 | 2.2 |

9/27/29
London
Sewer grades MH 32 to Septic Tank
Redwood gardens Sewers

| Station | El | grade | BM 352.76 |
|--------------|--------|--------|-----------|
| 0+00 = MH 32 | 346.65 | 337.00 | 0.94 |
| 0+50 | 4.83 | 341.82 | 335.58 |
| 1+00 | 5.52 | 341.13 | 334.17 |
| 1+50 | 7.20 | 339.45 | 332.75 |
| 2+00 | 8.10 | 338.55 | 331.34 |
| 2+50 | 11.93 | 334.72 | 329.92 |
| MH 37 | 336.46 | 334.10 | 328.50 |
| 3+00 | 2.36 | 334.10 | 328.50 |
| 0+00 = MH 37 | | | 328.50 |
| 0+50 | 2.12 | 334.34 | 326.72 |
| 1+00 | 4.06 | 332.40 | 324.93 |
| 1+50 | 5.68 | 330.78 | 323.15 |
| 2+00 | 8.85 | 327.61 | 321.36 |
| 2+50 | 10.36 | 326.10 | 319.56 |
| MH 38 | | | 319.56 |
| 2+79.55 | 9.80 | 326.66 | 318.50 |
| 0+00 = MH 38 | 9.23 | 327.23 | 318.50 |
| 0+52.50 | 328.48 | 323.37 | 316.25 |
| 5 stake | 7.60 | 320.88 | 317. |
| Top Tank | 7.28 | 321.20 | 317.00 |

Sewer grades DE - DPMH. N°3 - MH. N°4

| Station | El | grade | DPMH. N°3 | MH. N°4 |
|-----------|--------|--------|-----------|---------|
| 446.21 | | | | |
| 0+00 | 6.70 | 439.51 | 439.91 | F. 0.48 |
| +50 | 0.47 | 437.74 | 429.00 | C 10.51 |
| 1+00 | 4.46 | 433.28 | 426.48 | C 10.84 |
| +50 | 7.98 | 429.76 | 423.87 | C 9.41 |
| 2+00 | 426.35 | 425.54 | 421.32 | C 8.44 |
| +50 | 4.51 | 421.84 | 418.77 | C 6.77 |
| 3+00 | 7.56 | 418.79 | 416.22 | C 5.62 |
| +50 | 9.44 | 416.91 | 413.67 | C 5.12 |
| MH N°4 | | | 416.36 | F-0.76 |
| 3+70 | 10.75 | 415.60 | 410.10 | C 5.50 |
| DPMH. N°3 | | | 416.36 | |
| 0+00 | 446.21 | 432.00 | | |
| +50 | 2.22 | 443.99 | 435.95 | C 8.04 |
| 1+00 | 458.97 | 449.67 | 439.90 | C 9.77 |
| +50 | 5.66 | 453.31 | 443.85 | C 9.46 |
| 2+00 | 3.07 | 455.90 | 447.80 | C 8.10 |
| +50 | 0.70 | 458.27 | 451.75 | C 6.52 |
| D.E. | | | 458.97 | |
| 2+62 | +0.10 | 459.07 | 452.70 | C 6.37 |

37

| | |
|--------|--|
| 422.31 | |
| 4.04 | |
| 426.35 | |
| 0.51 | |
| 425.54 | |
| 12.20 | |
| 437.74 | |
| 0.47 | |
| 433.28 | |
| 12.93 | |
| 446.21 | |
| 0.26 | |
| 437.26 | |
| 446.36 | |
| 10.18 | |
| 416.17 | |
| 110.10 | |
| 6.07 | |
| 446.21 | |
| 0.04 | |
| 446.17 | |
| 12.80 | |
| 458.97 | |
| 0.00 | |
| 458.97 | |
| 6.18 | |
| 446.15 | |
| 7.72 | |
| 457.43 | |

8.26
424.43
5.62
418.81
413.67
5.14

5.62
5.12
10.74

548
950
1500
47420

EI grade

500
424.20
419.35
422.31-34
189

| | | | | |
|--------------------|----------------|--------|--------|---------|
| 1+00 | 424.20 2.54 | 421.66 | 410.67 | C10.99 |
| 0+50 | 4.46 | 419.24 | 409.83 | C 9.91 |
| Ext. M.H. | | | 418.20 | C 0.08 |
| 0+00 | 5.92 | 418.28 | 409.00 | C 9.28 |
| Ext. M.H. | | | | |
| 1+47 ⁰⁶ | | | 409.00 | |
| 1+00 | 8.29 | 415.91 | 409.35 | C 6.56 |
| 0+50 | 9.18 | 415.02 | 409.72 | C 5.30 |
| 0+00= | | | | |
| 3+10 | | | 410.10 | |
| 3+00 | 7.72 | 416.48 | 410.19 | C 6.29 |
| 2+50 | 6.75 | 417.45 | 410.56 | C 6.89 |
| 2+00 | 6.30 | 417.90 | 410.95 | C 6.95 |
| 1+50 | 5.00 | 419.20 | 411.33 | C 7.87 |
| 1+00 | 3.77 | 420.23 | 411.72 | C 8.51 |
| 0+50 | 423.24 2.92 | 420.32 | 412.10 | C 8.22 |
| MH #5 | 2.87 | | | |
| 0+00=3+25 | | 420.37 | 412.50 | C 7.87 |
| 3+00 | 3.46 | 419.78 | 412.69 | C 7.09 |
| 2+50 | 4.30 | 418.94 | 413.07 | C 5.87 |
| 2+00 | 4.90 | 418.34 | 413.45 | C 4.89 |
| 1+50 | 5.19 | 418.05 | 413.83 | C 4.22 |
| 1+00 | 3.44 | 419.80 | 414.22 | C 5.58 |
| 0+50 | 0.38 | 422.86 | 414.60 | C 8.25 |
| MH #6 | 435.09 | | | |
| 0+00 | 7.37 | 425.70 | 415.00 | C 10.70 |
| 0+50 | 8.03 | 427.06 | 420.47 | C 6.59 |
| 1+00 | 6.68 | 428.41 | 420.93 | C 7.48 |
| 1+50 | 5.52 | 429.57 | 421.40 | C 8.17 |
| 2+00 | 4.76 | 430.33 | 421.86 | C 8.47 |
| 2+50 | 4.18 | 430.91 | 422.33 | C 8.58 |

424.20
418.20
420.23
+3.01
423.24
-0.38
422.86
+12.23
435.09

MH #4

420.90
420.37
F=0.53

420.00

425.70

434.96
435.11

38

EI grade

| | | | | |
|-----------|----------------|--------|--------|---------|
| 3+00 | 435.09 3.32 | 431.77 | 431.95 | F 0.18 |
| 0+00 | | 431.77 | 422.80 | C 8.97 |
| 0+50 | 2.75 | 432.34 | 423.25 | C 9.09 |
| 1+00 | 2.00 | 433.09 | 423.71 | C 9.38 |
| 1+50 | 2.13 | 432.96 | 424.17 | C 8.79 |
| 2+00 | 2.14 | 432.95 | 424.62 | C 8.33 |
| 2+50 | 443.28 | | | |
| 3+00 | 441.24 8.66 | 432.82 | 425.08 | C 7.74 |
| MH #8 | 441.24 8.13 | | | |
| 3+50=2+95 | | 433.11 | 426.00 | C 7.11 |
| 2+50 | 441.24 7.01 | 434.23 | 426.33 | C 7.90 |
| 2+00 | 7.16 | 436.12 | 426.70 | C 9.42 |
| 1+50 | 5.73 | 437.55 | 427.07 | 10.48 |
| 1+00 | 4.62 | 438.66 | 427.44 | C 11.22 |
| 0+50 | 4.00 | 439.28 | 427.82 | C 11.46 |
| 0+00 | 3.40 | 439.88 | 428.20 | C 11.68 |
| 0+50 | 4.13 | 439.15 | 428.57 | C 10.58 |
| 1+00 | 4.31 | 438.97 | 428.94 | C 10.03 |
| 1+50 | 443.27 4.50 | 438.77 | 429.31 | C 9.46 |
| 2+00 | 4.75 | 438.52 | 429.68 | C 8.84 |
| MH #9 | 5.16 | | | |
| 2+43=0+00 | | 438.11 | 430.00 | C 8.71 |
| 0+50 | 5.56 | 437.71 | 430.41 | C 7.30 |
| 1+00 | 5.82 | 437.45 | 430.82 | C 6.63 |
| 1+50 | 445.26 7.96 | 437.30 | 431.23 | C 6.07 |
| 2+00 | 7.90 | 437.36 | 431.64 | C 5.72 |
| MH #10 | | | | |
| 2+43 | 8.31 | 436.95 | 432.00 | C 4.95 |
| | 8.07 | 437.19 | | C 5.19 |

435.09
2.14

432.95
10.33

443.28
4.80

438.48

443.28
4.31

438.97
4.30

443.27
9.05

435.22

437.55
3.69

44.24
5.37

432.57

437.71
7.55

445.26

Sewer Stakes Redstart Drive

Sewer Stakes 56th

| M.H. | DE | El. | grade | |
|-----------------|--------|--------|--------|------------------|
| M.H. 10 0+00 | | 445.26 | 432.00 | |
| 0+50 | | 446 | 432.66 | C 8.14 |
| 1+00 | | 442.64 | 433.33 | C 9.29 |
| 1+50 | | 444.10 | 433.99 | C 10.11 |
| 2+00 | | 444.44 | 434.66 | C 9.78 |
| 2+50 | 449.14 | 443.42 | 435.33 | C 8.09 |
| M.H. 11 3+00 | 5.22 | 442.59 | 436.00 | F-0.90 C 6.59 |
| 0+50 | | 441.73 | 436.46 | C 5.27 |
| 1+00 | | 441.50 | 436.92 | C 4.58 |
| 1+50 | | 442.08 | 437.38 | C 4.70 |
| 2+00 | | 442.59 | 437.85 | C 4.74 |
| M.H. 12 2+16 | 6.26 | 442.88 | 438.00 | F-0.72 C 4.88 |
| 0+50 | | 444.14 | 439.35 | C 4.79 |
| 1+00 | | 445.29 | 440.70 | C 4.57 |
| M.H. 13 1+11 | 3.36 | 445.78 | 441.00 | F-0.35 C 4.78 |
| 0+50 | | 446.79 | 441.66 | C 5.13 |
| 1+00 | | 447.60 | 442.32 | C 5.28 |
| 1+50 | | 448.24 | 442.98 | C 5.26 |
| 2+00 | 455.95 | 448.69 | 443.64 | C 5.05 |
| 2+50 | | 448.80 | 444.30 | C 4.50 |
| 3+00 | | 449.04 | 444.96 | C 4.08 |
| DE 3+33 | | 449.35 | 445.40 | C 3.95 |

| DE | El. | grade | |
|-----------------|--------|--------|--------|
| DE 0+00 | 460.09 | 446.00 | C 5.99 |
| 0+50 | 8.10 | 451.99 | 446.00 |
| 1+00 | 7.70 | 452.39 | 445.43 |
| 1+50 | 7.06 | 453.03 | 444.86 |
| 2+00 | 6.35 | 453.74 | 444.28 |
| 2+50 | 6.18 | 453.91 | 443.70 |
| M.H. 15 2+17 | 5.75 | 454.34 | 443.50 |
| 0+50 | 5.28 | 454.81 | 442.88 |
| 1+00 | 5.32 | 454.77 | 442.27 |
| 1+50 | 6.41 | 453.68 | 441.66 |
| 2+00 | 1.68 | 451.52 | 441.04 |
| 2+50 | 4.63 | 448.57 | 440.42 |
| 3+00 | 7.35 | 445.85 | 439.81 |
| M.H. #1 3+25 | 8.35 | 444.85 | 439.50 |
| 0+50 | 9.12 | 444.08 | 436.62 |
| 1+00 | 11.20 | 442.00 | 436.24 |
| 1+50 | 11.92 | 441.28 | 435.86 |
| 2+00 | 4.18 | 441.86 | 435.48 |
| 2+50 | 3.84 | 442.20 | 435.09 |
| 3+00 | 3.26 | 442.78 | 434.70 |
| M.H. 2 3+25 | 2.97 | 443.07 | 434.50 |
| 0+50 | 2.43 | 443.61 | 434.10 |
| 1+00 | 2.44 | 443.60 | 433.70 |
| 1+50 | 2.57 | 443.47 | 433.30 |
| 2+00 | 3.42 | 442.62 | 432.90 |
| 2+50 | 4.96 | 441.08 | 432.50 |

445.20
444.85
F 0.35

Sweet Stakes Cañon Terrace 40

| | | | | | |
|-----------|--------|--------|--------|--------|-----------|
| 3+00 | 446.04 | E1 | grade | 432.10 | |
| DDMH#3 | | | | | |
| 3+10=0+00 | | | | 432.00 | |
| 0+00 | | | | 429.00 | |
| 0+55 | 7.85 | 438.17 | 429.50 | e 8.69 | 437.67-81 |
| 1+10 | 8.77 | 437.27 | 430.00 | e 7.27 | 8.37 |
| | | | 446.04 | | MH 27 |
| | | | 418 | | 0+00 |
| | | | 441.86 | | MH 27 |
| | | | 3.4 | | 3+446.9 |
| | | | 453.20 | | 3+00 |
| | | | -1.68 | | |
| | | | 451.52 | | 2+50 |
| | | | 18.57 | | |
| | | | 460.09 | | 2+00 |
| | | | -8.20 | | |
| | | | 451.89 | | 1+50 |
| | | | +0.79 | | |
| | | | 452.68 | | 1+00 |
| | | | -8.72 | | |
| | | | 443.96 | | 0+50 |
| | | | +3.35 | | DMH 26 |
| | | | 447.31 | | 0+00 |
| | | | 8.84 | | |
| | | | 438.47 | | 0+50 |

| | | | | | |
|--------|--------|--------|--------|---------|--|
| CE | 428.65 | E1 | grade | | |
| 1+50 | 8.07 | 420.58 | 414.00 | c 6.58 | |
| 1+00 | 9.47 | 419.18 | 413.31 | e 5.87 | |
| 0+50 | 11.03 | 417.62 | 412.16 | e 5.46 | |
| 0+00 | 10.82 | 417.83 | 411.01 | c 6.82 | |
| | | | 411.01 | | |
| 3+00 | 11.49 | 417.16 | 410.55 | e 6.61 | |
| 2+50 | 11.19 | 417.46 | 410.04 | e 7.42 | |
| 2+00 | 10.96 | 417.69 | 409.53 | e 8.16 | |
| 1+50 | 10.65 | 418.00 | 409.02 | e 8.98 | |
| 1+00 | 10.47 | 418.18 | 408.51 | e 9.67 | |
| 0+50 | 421.71 | 418.48 | 408.00 | c 10.48 | |
| | 3.23 | | | | |
| 0+00 | 3.54 | 418.17 | 412.00 | e 6.17 | |
| 0+50 | 2.15 | 419.56 | 413.07 | e 6.49 | |
| 1+00 | 0.25 | 421.46 | 414.14 | e 7.32 | |
| DE | 426.53 | | | | |
| 1+40 | 2.51 | 424.02 | 415.00 | e 9.02 | |
| DMH 26 | | 418.17 | 407.49 | e 10.68 | |
| 0+00 | | | | | |
| 0+50 | 4.02 | 417.69 | 406.99 | c 10.70 | |
| 1+00 | 4.68 | 417.03 | 406.49 | e 10.54 | |
| +50 | 5.38 | 416.33 | 405.99 | e 10.34 | |
| 2+00 | 6.33 | 415.38 | 405.49 | e 9.89 | |
| +50 | 7.96 | 413.75 | 404.99 | e 8.76 | |
| MH 25 | | | | | |
| 2+84 | 9.64 | 412.07 | 404.65 | e 7.42 | |
| MH 25 | | | 404.65 | | |
| 0+00 | | | | | |
| 0+50 | 12.67 | 409.04 | 401.15 | e 7.89 | |
| BK. | 409.15 | | | | |
| 0+15 | 6.58 | 402.57 | 398.00 | e 4.57 | |

| | |
|--------|---------|
| DMH 46 | 425.70 |
| | 2.95 |
| | 428.65 |
| | 10.47 |
| | 418.18 |
| | + 3.53 |
| | 421.71 |
| | 12.67 |
| | 409.04 |
| | + 0.11 |
| | 409.15 |
| | - 13.05 |
| | 396.10 |
| | + 0.19 |
| | 396.29 |
| | - 12.87 |
| | 383.42 |
| | + 0.35 |
| | 383.77 |
| | - 11.72 |
| | 372.05 |
| | + 1.97 |
| | 374.04 |
| | - 0.07 |
| | 373.97 |
| | 12.77 |
| | 386.74 |
| | - 0.20 |
| | 386.74 |
| | + 12.58 |
| | 399.32 |
| | 0.02 |
| | 399.28 |
| | + 12.97 |
| | 412.27 |
| | - 0.16 |
| | 412.11 |
| | + 12.90 |
| | 425.01 |
| | - 0.26 |
| | 424.75 |
| | + 12.76 |
| | 437.51 |
| | - 0.07 |
| | 437.44 |

Cajon Terrace

437.02
1.40
438.82
0.62
439.20

| | | | | | |
|--------------------|-----------------|--------|--------|-------|--|
| | 396.29 | | | | |
| 1+29 | 8.50 | 387.79 | 381.50 | C6.29 | |
| 1+63 | 383.77 11.88 | 371.89 | 365.00 | C6.89 | |
| 1+88 ⁷² | 374.04 9.08 | 364.96 | 358.00 | C6.96 | |

392.14

392.23

392.33

392.42

393.42
392.42
1.00

393.42
8.50
384.88
392.33
7.45

428.09
422.49
60.09

402.06

2.99

405.05

12.43

392.62

0.80

393.42

392.23

1.19

393.42

392.33

1.09

437.05
12.71
426.34
+0.14
426.48
5.07
431.51

426.48
8.83
419.65

393.42
1.58
391.84
392.23
.39

Senior Stakes Adams Ave.

41

| | | | | |
|--------|--------|--------|--------|-----------------------------|
| 422.84 | E.1 | grade | | DM.418.72 4.12 422.84 |
| 9.65 | 413.19 | 401.90 | C11.29 | 1.09 421.75 |
| 10.10 | 412.74 | 401.50 | C11.24 | 12.60 434.35 |
| 8.05 | 412.74 | 406.00 | C6.74 | -0.78 433.57 |
| 8.05 | 414.79 | 406.57 | C8.22 | 12.63 446.20 |
| 7.60 | 415.24 | 407.29 | C7.95 | 0.87 445.33 |
| 7.01 | 415.83 | 408.00 | 7.83 | 10.70 456.03 |
| 6.49 | 416.35 | 408.69 | C7.66 | 4.03 451.98 |
| 6.00 | 416.84 | 409.38 | C7.46 | |
| 5.46 | 417.38 | 410.07 | C7.31 | |
| 4.83 | 418.01 | 410.76 | C7.25 | |
| 4.29 | 418.55 | 411.45 | C7.10 | |
| 3.92 | 418.92 | 412.00 | C6.92 | |
| 3.39 | 419.45 | 412.69 | C6.76 | |
| 2.81 | 420.03 | 413.38 | C6.65 | |
| 2.23 | 420.61 | 414.07 | C6.54 | |
| 1.62 | 421.22 | 414.76 | C6.46 | |
| 1.09 | 421.75 | 415.45 | C6.30 | |
| 11.77 | 422.58 | 416.00 | C6.58 | |
| 10.20 | 424.15 | 417.81 | C6.34 | |
| 8.12 | 426.23 | 419.63 | C6.60 | |
| 5.92 | 428.43 | 421.45 | C6.98 | |
| 3.85 | 430.50 | 423.27 | C7.23 | |
| 3.06 | 431.29 | 424.00 | C7.29 | |

PIU9.
0+35.92
DM.H.19
0+00
DM.H.19
0+00
0+40
0+90
M.H.20
1+40

0+50
1+00
1+50
2+00
2+50
M.H.21
2+90

0+50
1+00
1+50
2+00
2+50
M.H.22
2+90

0+50
1+00
1+50
2+00
DE
2+20

434.35
11.77

422.52
416.00

C-0.06
C6.58

Sewer stakes Adams Ave

| | 446.20 | El | grade | | |
|---------|----------------|--------|--------|--------|--|
| M.H. 8 | | | | | |
| 0+00 | 10.34 | 435.86 | 426.00 | | |
| | | 435.86 | | | |
| 0+50 | 6.91 | 439.77 | 428.43 | C 7.43 | |
| | | 439.77 | | | |
| 1+00 | 3.59 | 442.18 | 430.86 | C 8.43 | |
| | | 442.18 | | | |
| 1+50 | 0.87 | 443.31 | 433.29 | C 9.32 | |
| | | 443.31 | | | |
| 2+00 | 456.03 9.07 | 445.33 | 435.72 | C 9.64 | |
| | | 446.76 | | | |
| 2+50 | 7.00 | 449.03 | 438.15 | C 8.81 | |
| | | 449.03 | | | |
| 3+00 | 5.39 | 450.64 | 440.59 | C 8.44 | |
| | | 450.64 | | | |
| 3+50 | | 451.35 | 443.02 | C 7.62 | |
| M.H. 14 | | 444.00 | 445.35 | F 0.49 | |
| 3+70 | 5.17 | 450.86 | 444.00 | C 6.86 | |
| | | | | | |
| 0+50 | 4.87 | 451.16 | 444.79 | C 6.37 | |
| | | | | | |
| 1+00 | 4.18 | 451.85 | 445.58 | C 6.27 | |
| | | | | | |
| 1+50 | 3.70 | 452.33 | 446.38 | C 5.95 | |
| | | | | | |
| 2+00 | 3.31 | 452.72 | 447.17 | C 5.55 | |
| | | | | | |
| 2+50 | 2.91 | 453.12 | 447.96 | C 5.16 | |
| | | | | | |
| 3+00 | 2.38 | 453.65 | 448.76 | C 4.89 | |
| | | | | | |
| 3+15 | 2.20 | 453.83 | 449.00 | C 4.83 | |

Sewer stakes 54th

42

| | 422.49 | | | | |
|----------|--------|--------|--------|---------|--|
| M.H. 19 | | | | | |
| 0+00 | | | 401.50 | | |
| 0+50 | 9.51 | 412.98 | 401.83 | C 11.15 | |
| | | | | | |
| 1+00 | 9.22 | 413.27 | 402.17 | C 11.10 | |
| | | | | | |
| 1+50 | 8.93 | 413.56 | 402.51 | C 11.05 | |
| | | | | | |
| 2+00 | 8.83 | 413.66 | 402.85 | C 10.81 | |
| | | | | | |
| 2+50 | 8.42 | 414.07 | 403.19 | C 10.88 | |
| M.H. 18 | | | | | |
| 2+95 | 6.90 | 415.59 | 403.50 | C 12.09 | |
| | | | | | |
| 3+15 | 7.14 | 415.35 | 403.75 | C 11.60 | |
| M.H. 18 | | | | | |
| 0+00 | | | 403.50 | | |
| DE. West | 6.98 | 415.51 | 403.75 | C 11.76 | |

418.72
- 3.77
422.49

Inlet No 1 on 54th between El Cajon & Adams

| | | |
|-------------|--------|--------|
| N End Inlet | 377.22 | 352.95 |
| S " " | 377.27 | +12.97 |
| | | 365.92 |
| | | -0.43 |
| | | 365.49 |
| | | +12.90 |
| | | 378.39 |
| | | -2.66 |
| | | 375.73 |
| | | 6.59 |
| | | 382.32 |
| 382.32 | 382.32 | |
| 5.70 | 4.98 | |
| 376.62 | 377.34 | |
| 377.22 | 377.27 | |
| -0.60 | 0.07 | |
| 382.3 | | |
| 4.9 | | |
| 377.4 | | |

Sewer Stakes Hinson Place

| | El | grade | | | |
|---------|---------|--------|--------|--------|--------|
| MH 23 | 408.74 | | | | |
| 0+00 | 4.65 | 404.09 | 396.50 | C-7.59 | 407.01 |
| 0+52 E | 4.44 | 404.30 | 395.25 | C-9.05 | 408.74 |
| 1+05 | 9.67 | 399.07 | 394.00 | C-5.07 | 395.74 |
| 1+32 E | 396.78 | 10.68 | 386.10 | 380.00 | C-6.10 |
| 1+60 | 384.62 | 11.42 | 373.20 | 366.00 | C-7.20 |
| M.H. 24 | 372.41 | 7.39 | 365.02 | 358.00 | C-7.02 |
| 1+94.2 | 4.11.09 | 7.00 | 404.09 | 396.50 | C-7.59 |
| MH 23 | 0+50 | 6.38 | 404.71 | 397.05 | C-7.66 |
| 1+00 | 5.51 | 405.58 | 397.61 | C-7.97 | 411.09 |
| 1+50 | 4.07 | 407.02 | 398.17 | C-8.85 | |
| D.E. | 1+80 | 3.01 | 408.08 | 398.50 | C-9.58 |

00757
 39850
 757
 22710

00757
 2500
 2310
 1900
 1650
 2500

406.38
 38
 406.76
 38
 407.14
 38
 407.52
 38
 407.90
 38
 408.28
 23
 408.51

Sewer stakes Collier

| | El | grade | | | |
|-------|--------|--------|--------|---------|--------|
| MH 18 | 422.49 | | | | |
| 0+00 | | | | | 403.50 |
| 0+50 | 7.18 | 415.31 | 403.87 | C 11.44 | |
| 1+00 | 6.80 | 415.69 | 404.24 | C 11.45 | |
| 1+50 | 6.91 | 415.58 | 404.61 | C 10.97 | |
| 2+00 | 6.87 | 415.60 | 404.98 | C 10.62 | |
| 2+50 | 7.19 | 415.30 | 405.35 | C 9.95 | |
| 3+00 | 7.57 | 414.92 | 405.72 | C 9.20 | |
| MH 17 | 3+37 | 418.55 | 3.99 | 414.56 | 406.00 |
| 0+50 | 4.33 | 414.22 | 406.38 | C 7.84 | |
| 1+00 | 4.85 | 413.70 | 406.76 | C 6.94 | |
| 1+50 | 5.26 | 413.31 | 407.14 | C 6.17 | |
| 2+00 | 5.65 | 412.90 | 407.52 | C 5.48 | |
| 2+50 | 5.99 | 412.56 | 407.90 | C 4.66 | |
| 3+00 | | | 408.27 | | |
| MH 16 | 3+30 | 3.22 | 415.33 | 408.50 | C 6.83 |
| 0+50 | 431.26 | 12.51 | 418.75 | 412.25 | C 6.50 |
| 1+00 | 8.88 | 422.38 | 416.00 | C 6.38 | |
| 1+50 | 5.46 | 425.80 | 419.75 | C 6.05 | |
| 2+00 | 1.81 | 429.45 | 423.50 | C 5.95 | |
| 2+50 | 442.40 | 9.68 | 433.32 | 427.25 | C 6.07 |
| D.E. | 2+73 | 7.17 | 435.21 | 429.00 | C 6.21 |

411.47
 3.63
 418.55
 0.00
 418.55
 12.71
 431.26
 429.45
 12.95
 442.40
 3.98
 438.92

422.31 RM NW 55+ El Cajon
 2.05
 424.26
 0.10
 424.26
 3.48
 427.74
 0.57
 427.22 F.H.
 13.06
 440.28
 1.03
 439.25
 9.59
 448.84
 10.40
 438.44
 = 438.43
 10.41
 438.43

| | | | | |
|-------|------|-------|-------|-------|
| 12.0 | 11.2 | 13.8 | 15.6 | 16.8 |
| 15.4 | 13.2 | 10.6 | 8.8 | 7.6 |
| 10.1 | 10.1 | 2.6 | 1.7 | 0.9 |
| +7.7 | +3.1 | +8.0 | +7.1 | +7.6 |
| 10.0 | 10.9 | 11.4 | 11.9 | 17.7 |
| 14.4 | 13.5 | 13.0 | 12.5 | 11.5 |
| 5.4 | 7.8 | 3.9 | 5.1 | 2.3 |
| +8.7 | +5.7 | +9.1 | +7.4 | 8.8 |
| 15.8 | 14.5 | 14.5 | 16.0 | |
| 12.0 | 13.4 | 13.2 | 11.7 | |
| 10.2 | 11.4 | 11.4 | 7.7 | |
| +12.2 | +4.1 | +1.8 | +4.0 | |
| 13.2 | 14.1 | 14.1 | 15.0 | |
| 11.2 | 13.6 | 13.6 | 12.7 | |
| 0.1 | 6.9 | 7.0 | 7.0 | |
| +11.1 | +6.7 | +5.7 | +5.7 | |
| 22.3 | 25.6 | 25.9 | 26.9 | 27.9 |
| 18.0 | 17.2 | 14.4 | 13.4 | 12.4 |
| 10.4 | 7.5 | 6.6 | 5.4 | 4.9 |
| +7.6 | +7.2 | +7.8 | +8.0 | +7.5 |
| 21.0 | 21.5 | 22.0 | 22.5 | 23.7 |
| 19.3 | 18.8 | 18.3 | 17.8 | 16.6 |
| 10.5 | 10.7 | 9.4 | 8.9 | 5.4 |
| +8.6 | +8.1 | +8.9 | +9.0 | +11.2 |
| 28.9 | 29.3 | 27.0 | 33.0 | 31.1 |
| 11.4 | 11.0 | 13.3 | 13.8 | 14.5 |
| 5.7 | 2.6 | 1.4 | 7.1 | 6.4 |
| +8.3 | +8.4 | +11.9 | +8.7 | +7.8 |
| 24.3 | 24.8 | 27.8 | 27.8 | 34.2 |
| 16.0 | 15.5 | 12.5 | 12.5 | 14.6 |
| 7.3 | 6.9 | 1.0 | 1.0 | 6.3 |
| +8.7 | +8.6 | +11.5 | +11.5 | +8.4 |
| 35.3 | 35.3 | 35.0 | 34.6 | 34.2 |
| 13.2 | 13.5 | 13.8 | 14.2 | 14.6 |
| 5.5 | 4.5 | 4.2 | 5.1 | 6.3 |
| +8.0 | +9.0 | +7.6 | +9.1 | +8.4 |
| 29.8 | 30.3 | 30.3 | 30.7 | 30.7 |
| 19.0 | 18.5 | 18.5 | 18.1 | 18.1 |
| 8.5 | 9.4 | 9.4 | 10.7 | 10.7 |
| +10.5 | +9.1 | +9.1 | +7.4 | +7.4 |
| 32.6 | 32.8 | 32.8 | | |
| 15.2 | 16.0 | 16.0 | | |
| 6.7 | 11.6 | 12.0 | | |
| +9.0 | +5.2 | +7.0 | | |
| 31.6 | 31.0 | 32.8 | | |
| 17.2 | 16.8 | 16.0 | | |
| 11.8 | 11.6 | 12.0 | | |
| +5.4 | +5.2 | +7.0 | | |

Lateral Adms Ave

44

| | | | | |
|--------|--------------|-------|-------|-----------------------------------|
| 400.21 | E1 | grade | | |
| 45 | 48 | 455.4 | 449.8 | c 5.6 438.43 12.39 |
| 46 | 50 | 455.2 | 449.0 | c 6.2 430.82 |
| 47 | 61 | 454.1 | 447.6 | c 6.5 451.78 8.43 |
| 48 | 4.6 | 455.6 | 448.1 | c 7.5 460.21 |
| 48 | 60 | 454.2 | 446.1 | c 8.1 |
| 42 | 65 | 453.7 | 446.4 | c 7.3 438.43 0.51 |
| 62 | 450.8 12 | c 9.6 | 439.9 | 438.94 12.91 426.13 0.51 |
| 63 | 0.8 | 450.0 | 441.8 | c 8.2 426.64 6.24 |
| 64 | 2.8 | 448.0 | 441.4 | c 6.6 420.20 4.05 |
| 65 | 6.9 | 443.7 | 433.2 | c 10.7 424.28 5.60 418.68 |
| 61 | 9.4 | 441.4 | 431.6 | c 7.8 27' west |
| 150 | 438.9 9.3 | 429.6 | 423.4 | c 6.2 15' west |
| 160 | 11.1 | 427.8 | 422.1 | c 5.7 |
| 151 | 426.6 2.0 | 424.6 | 419.4 | c 5.2 |
| 152 | 4.7 | 421.9 | 416.2 | c 5.7 |
| 153 | 5.3 | 421.3 | 414.7 | c 6.6 |
| 154 | 6.0 | 420.6 | 413.8 | c 6.8 |
| 155 | 7.3 | 419.3 | 412.7 | c 6.6 |
| 156 | 10.0 | 416.6 | 411.3 | c 5.3 |
| 157 | 10.6 | 416.0 | 410.6 | c 5.4 |
| 158 | 10.4 | 416.2 | 409.9 | c 6.3 |
| 159 | 10.2 | 416.4 | 409.2 | c 7.2 |
| 137 | 424.3 7.5 | 416.8 | 409.2 | c 7.6 |
| 138 | 6.7 | 417.6 | 410.1 | c 7.5 |
| 139 | 6.1 | 418.2 | 410.9 | c 7.3 |

Sewer Cons. Inside S. of El Cajon Ave
from M.H. #39 East

| BM. | 6.92 | 429.23 | 422.31 | NW 56 th + El Cajon | 409.00 |
|------------------------|------|--------|--------|-----------------------------------|-----------------|
| Ex. M.H. & Gilbert | | | | | 0 |
| 1+00 End Pipe | | 7.55 | 421.68 | 410.68 | + 11.00 = 10.99 |
| 1+50 | | 7.11 | 422.12 | 411.51 | + 10.61 |
| 1+79 = M.H. #39 = 0100 | | 7.78 | 21.45 | 418.00 | + 9.45 |
| 0+50 | | 6.44 | 22.75 | 13.38 | + 9.37 |
| 1+00 | | 4.85 | 24.38 | 14.74 | + 9.61 |
| 1+50 | | 3.43 | 25.80 | 16.15 | + 9.65 |
| 2+00 | | 2.06 | 27.17 | 17.35 | + 9.62 |
| 2+59 D.E. | | 0.00 | 429.23 | 419.20 | + 10.03 |

(429.23)

46

Sewer Laterals

| | | | | | | | |
|-------|--------|-------|--------|-------|--------|-------|--------|
| (170) | 412.70 | (171) | 415.80 | (172) | 418.20 | (173) | 419.70 |
| | 16.58 | | 13.73 | | 11.03 | | 8.33 |
| | 8.15 | | 6.1 | | 4.0 | | 1.1 |
| | + 8.0 | | + 7.8 | | + 7.8 | | + 7.2 |

54th St Sewer Cons.

| BM. | 2.27 | 420.99 | 418.72 | | |
|---------------------------------------------|--------|--------|--------|---------|-----------------|
| 0100 M.H. #79 & 54 th & Adams | | | | 406.0 | + 6.75 |
| 0+50 | | | | 401.505 | + 11.25 = 11.24 |
| T.P. 0+13 | 408.34 | 10.86 | 410.13 | 398.22 | + 11.91 |
| 1+00 | | 12.74 | 408.21 | 394.93 | + 12.01 |
| 1+50 | | 1.40 | 406.94 | 391.65 | + 11.77 |
| 2+00 | | 4.92 | 403.42 | 388.38 | + 11.48 |
| # T.P. 2+63 M.H. 30-00 | 0.41 | 395.82 | 12.93 | 384.25 | + 11.16 |
| 0+40 N. End Iron Pipe | | | | 381.62 | + 8.57 |
| 0+72 Smt Pier | | | | 380.84 | + 7.86 |
| 0+64 " " | | | | 380.05 | + 8.46 |
| 0+76 S. End Iron Pipe | | | | 379.26 | + 9.27 |
| 1+00 | | | | 377.69 | + 11.46 |
| 1+50 | | | | 374.41 | + 12.09 |
| T.P. 2+00 | 0.61 | 382.84 | 13.59 | 371.14 | + 11.09 |
| 2+63 M.H. 31 | | | 15.84 | 367.00 | |

72
1359

Bottom Pier

" "

54th Sewer Const. Cont.

0100 = EX. M.H. 33

393.64

| | | | | | | |
|---------------------------------------------------------------|------|------|-------|--------|--------|--------|
| Flow line | | | 17.56 | 376.08 | 376.0 | |
| 1.0+43.54 | | | 9.11 | 84.53 | 378.33 | + 6.20 |
| 2 | | | 5.98 | 87.66 | 380.66 | + 7.00 |
| 3 | | | 3.42 | 90.22 | 383.00 | + 7.22 |
| 4 | T.P. | 7.69 | 1.07 | 92.57 | 385.33 | + 7.24 |
| | | | 5.19 | 97.43 | | |
| 5 | | | 7.13 | 94.01 | 387.66 | + 6.35 |
| 6.2+61 ³⁵ = M.H. 34 = 0.00 | | | 6.24 | 94.90 | 390.00 | + 4.90 |
| 1.0+49 ²⁵ | | | 5.33 | 95.81 | 390.40 | + 5.41 |
| 2 | | | 4.63 | 96.51 | 390.80 | + 5.71 |
| 3 | | | 4.17 | 96.97 | 391.20 | + 5.77 |
| 4 | | | 3.39 | 97.75 | 391.60 | + 6.15 |
| 5.2+48 ²⁵ = M.H. 35 = 0.00 | | | 3.56 | 97.58 | 392.00 | + 5.58 |
| 1.0+49 ²⁵ | | | 4.12 | 97.02 | 392.40 | + 4.62 |
| 2 | T.P. | 8.65 | 5.42 | 400.72 | 392.80 | + 7.92 |
| | | | 5.42 | | | |
| 3 | | | 6.52 | 402.85 | 393.20 | + 9.65 |
| 4 | | | 6.68 | 402.69 | 393.60 | + 9.09 |
| 5.2+48 ²⁵ = M.H. 36 = 0.00 | | | 7.02 | 402.35 | 394.00 | + 8.35 |
| 0+50 | | | 6.98 | 402.39 | 394.50 | + 7.89 |
| 1+00 = D.E. on branch line | | | 6.17 | 403.20 | 395.00 | + 8.20 |
| M.H. 36 = 0100 | | | | | | |
| 0+42.22 | | | 3.82 | 405.49 | 395.83 | + 9.66 |
| 0+84 ⁴⁴ | | | 2.50 | 406.87 | 397.66 | + 9.21 |
| 1+26 ⁶⁴ | | | 0.24 | 409.10 | 399.50 | + 9.65 |
| 1+68 ⁹⁰ = Connect to Ex. 8' Sewer ON B.M. check | | | 7.30 | 402.07 | 401.33 | |

402.06 = B.M. N.W. Mon. 54th & E.L. Gian
 1.96
 404.02
 11.45
 392.57
 1.07
 393.64

| Lat # | 455.4 | EI | grade | | 461.6 | | | | | |
|-------|--------------|-------|-------|-------|-------|---------------|-------|-------|--------|----------------------|
| 85 | 2.7 | 452.5 | 446.2 | c 6.3 | 35 | 7.9 | 453.7 | 446.4 | c 7.3 | ON 451.78 9.79 |
| 86 | 2.6 | 452.8 | 445.8 | c 7.0 | 36 | 4.7 | 456.9 | 450.0 | c 6.9 | 461.57 11.59 |
| 87 ✓ | 455.6 2.8 | 452.8 | 444.0 | c 8.8 | 37 | 4.4 | 457.2 | 450.0 | c 7.2 | 449.98 0.60 |
| 88 | 3.3 | 452.3 | 443.0 | c 9.3 | 38 | 5.2 | 456.4 | 449.8 | c 6.6 | 450.58 3.40 |
| 89 | 4.8 | 450.8 | 442.0 | c 8.8 | 39 | 5.9 | 455.7 | 449.2 | c 6.5 | 447.18 3.10 |
| 90 | 6.0 | 449.6 | 440.5 | c 9.1 | 40 | 6.7 | 454.9 | 448.6 | c 6.3 | 450.28 12.52 |
| 91 | 8.8 | 446.9 | 438.1 | c 8.7 | 41 | 7.2 | 454.4 | 448.0 | c 6.4 | ON 437.76 (37.67) |
| 92 | 7.2 | 446.4 | 437.2 | c 9.2 | 49 | 7.6 | 454.0 | 446.0 | c 8.0 | |
| 74 | 7.0 | 453.6 | 446.1 | 7.5 | 50 | 5.9 | 455.7 | 444.7 | c 11.0 | ✓ |
| 75 | 4.0 | 451.2 | 444.5 | c 6.7 | 51 | 5.2 | 456.4 | 445.0 | c 11.4 | ✓ |
| 70 | 6.2 | 449.4 | 443.6 | c 5.8 | 52 | 6.5 | 455.1 | 445.0 | c 10.1 | ✓ |
| 76 | 8.4 | 447.2 | 442.4 | c 4.8 | 53 | 450.6 3.8 | 446.8 | 440.6 | c 6.2 | |
| 77 | 10.6 | 445.0 | 441.9 | c 3.1 | 44 | 450.3 10.3 | 440.0 | 430.8 | c 9.2 | (20) |
| 78 | 12.0 | 443.6 | 441.1 | c 2.5 | 1 | 4.4 | 445.9 | 438.1 | c 7.8 | 450.6 1.4 |
| 79 | 448.0 4.5 | 443.5 | 439.7 | c 3.8 | 2 | 3.6 | 446.7 | 439.6 | c 7.1 | 449.2 442.2 |
| 80 | 7.7 | 440.3 | 438.4 | c 1.9 | 3 | | 447.2 | 439.5 | c 7.7 | c 7.0 |
| 81 | 9.4 | 438.6 | 437.6 | c 1.0 | 4 | 450.6 3.8 | 446.8 | 438.5 | c 8.3 | |
| 82 | 5.8 | 442.2 | 436.6 | c 5.6 | 5 | 5.4 | 445.2 | 437.2 | c 8.0 | |
| | | | | | 6 | 6.7 | 443.9 | 436.6 | c 7.3 | |
| | | | | | 7 | 6.3 | 444.3 | 437.4 | c 6.9 | |
| | | | | | 8 | 8.2 | 442.4 | 437.2 | c 5.2 | |
| | | | | | 9 | 10.3 | 440.3 | 436.5 | c 3.8 | |
| | | | | | 10 | 10.5 | 440.1 | 436.1 | c 4.0 | |
| | | | | | 11 | 8.7 | 441.9 | 435.4 | c 6.5 | |
| | | | | | 12 | 7.8 | 442.8 | 434.8 | c 8.0 | |

450.3
 13 7.9 442.4 434.2 C 8.2
 14 8.8 44.5 433.6 C 7.7
 25 14.1 436.2 430.8 C 5.4

Madison 255th

S.E. Return

434.60 434.60 434.60
 425.25 426.00 426.62
 7.35 18.60 8.00

N.E. Return

434.60 434.60 434.60
 427.30 427.10 427.56
 7.30 7.55 17.50 9.04

42 4.87
 7.73
 434.60
 0.10
 434.50
 434.60
 50'N 428.77
 5.93

Curb stakes 55th St. E1000 to

0+10 W 422.63 0+20 W 424.63 0+30 W 424.63
 422.00 421.93 421.38
 2.63 2.70 3.25

434.60 434.60 434.60
 430.25 432.0 432.75
 4.35 2.60 1.85

Adams & 55 Returns

S.E.
 439.15 439.15 439.15
 433.60 433.85 434.50
 5.55 15.30 4.65

434.50
 4.65
 437.15 437.15
 435.20 0.74
 3.75 438.41

N.E.

439.15 439.15 439.15
 435.37 435.10 435.20
 3.78 4.05 3.95

437.15
 435.70
 3.45

N.W.

439.15 439.15 439.15
 434.40 434.00 433.60
 4.75 5.15 5.55

437.15
 433.20
 3.95

S.W.

439.15 439.15 439.15
 433.06 433.00 432.90
 6.09 6.15 6.25

439.15
 432.70
 6.45

437.15
 434.0
 5.15

Returns Gilbert Drive

S.W.
 419.20
 424.63
 418.90
 5.73
 424.63
 418.25
 5.98
 424.63
 418.40
 6.23

N.W.
 414.63
 417.40
 7.23
 424.63
 417.40
 7.23
 424.63
 417.37
 7.26
 424.63
 417.30
 7.33

Returns Collier & 55th

N.W.
 443.27 444.11 444.11
 439.96 439.90 439.45
 3.31 4.21 4.66
 3.23
 443.27 444.11 444.11
 439.93 439.90 439.45
 3.36 4.21 4.66

444.11
 439.36
 4.75

S.W.

444.11 444.11
 439.45 439.10
 4.66 4.01

V.C. N of Adams

| | | | | | | |
|----------|--------|--------|--------|--------|--------|--------|
| E 443.29 | 443.29 | 443.29 | 443.29 | 443.29 | 443.29 | 443.29 |
| 437.27 | 437.90 | 438.50 | 439.00 | 439.40 | 439.70 | 439.70 |
| 6.02 | 15.39 | 4.77 | 4.29 | 13.97 | 13.59 | 13.59 |
| W 443.29 | 443.29 | 443.29 | 443.29 | 443.29 | 443.29 | 443.29 |
| 436.60 | 437.40 | 438.00 | 438.50 | 438.90 | 439.20 | 439.20 |
| 6.69 | 5.89 | 5.29 | 4.77 | 4.39 | 4.09 | 4.09 |
| E 443.29 | 443.29 | 443.29 | 443.29 | 443.29 | 443.29 | 443.29 |
| 440.00 | 440.50 | 440.50 | 440.60 | 440.50 | 440.50 | 440.50 |
| 3.29 | 12.79 | 12.79 | 2.69 | 2.79 | 2.79 | 2.79 |
| W 443.29 | 443.29 | 443.29 | 443.29 | 443.29 | 443.29 | 443.29 |
| 439.40 | 439.40 | 439.40 | 439.40 | 439.40 | 439.40 | 439.40 |
| 3.89 | 3.89 | 3.89 | 3.89 | 3.89 | 3.89 | 3.89 |

439.73
439.40
33
26

435.11 RH.
712.68
447.79
- 5.20
442.50
+ 7.36
449.86
- 0.07
449.79
+ 5.31
455.10
3.30
451.80

438.43 RH
4.86
443.29
3.06
440.23 RH
N.W. Rad. 55th
= 55th

Returns 55th & Redland Dr.

| | | | | |
|-------------|--------|--------|--------|--------|
| S.E. | | | | 440.23 |
| PC 444.43 | 444.43 | 444.43 | 444.43 | 444.43 |
| 438.50-55th | 438.55 | 438.75 | 439.15 | 439.70 |
| 5.93 | 5.98 | 5.68 | 5.28 | 41.73 |
| 440.43 | 441.00 | 441.00 | 441.00 | 441.00 |
| 4.08 | 13.43 | 13.43 | 13.43 | 13.43 |
| S.W. | | | | 440.23 |
| PC 444.43 | 444.43 | 444.43 | 444.43 | 444.43 |
| 437.80-55th | 437.65 | 437.25 | 437.15 | 437.70 |
| 6.63 | 6.78 | 7.18 | 7.18 | 7.18 |
| N.W. | | | | 440.23 |
| PC 444.43 | 444.43 | 444.43 | 444.43 | 444.43 |
| 436.60-55th | 436.80 | 436.75 | 436.75 | 436.75 |
| 7.83 | 7.63 | 7.68 | 7.68 | 7.68 |
| N.E. | | | | 435.11 |
| PC 440.50 | 440.50 | 440.50 | 440.50 | 440.50 |
| 436.80-55th | 437.10 | 437.70 | 438.10 | 438.10 |
| 3.70 | 3.40 | 2.80 | 2.40 | 2.40 |

440.5
E 436.2
4.3
440.5
W 435.8
4.7

End of 55th
440.50
W 429.00
11.50

E 429.10

Curb stakes Redford Dr.

22)

| | | | | | | | | | | | |
|--------------------|--------|--------|--------------------|-------------|-------------------------|--------|--------|--------------------|----------------------|--------|------|
| 0+32 ²² | 447.79 | | | | | | | | | | |
| E | 440.15 | 7.64 | | 447.79 | | 449.86 | | | 449.86 | | |
| B.C. V | | | B.C. V | | | | | | | | |
| 0+65 ⁵⁴ | | | 3+35 ⁵⁴ | | (2) | | | 7+56 ⁵⁴ | | | |
| E | 442.20 | 5.59 | E | 442.50 | ✓ 5.29 | E | 443.93 | ✓ 5.73 | E | 448.50 | 1.36 |
| W | 442.50 | 5.29 | W | 442.60 | 5.17 | W | 444.13 | ✓ 5.73 | W | 448.90 | 0.96 |
| 0+85 ⁵⁴ | | | 3+55 ⁵⁴ | | (3) | | | 7+76 ⁵⁴ | E.V.C. | | |
| E | 443.40 | 4.39 | E | 442.20 | ✓ 5.59 | E | 444.55 | ✓ 5.31 | E | 448.80 | 1.06 |
| W | 443.60 | 4.17 | W | 442.30 | 5.47 | W | 444.65 | ✓ 5.21 | W | 449.20 | 0.66 |
| 1+05 ⁵⁴ | | | 3+75 ⁵⁴ | | (4) | | | 9+84 ⁸⁰ | 455.10 - 4.1 B.C. | | |
| E | 444.20 | 3.59 | E | 442.00 | ✓ 5.79 | E | 445.17 | ✓ 4.69 | E | 450.50 | 4.60 |
| W | 444.60 | 3.17 | W | 442.10 | 5.67 | W | 445.17 | ✓ 4.69 | W | 450.50 | 4.60 |
| 1+25 ⁵⁴ | | | 3+95 ⁵⁴ | | (5) | | | | | | |
| E | 444.80 | 2.79 | E | 442.00 | - 5.79 | E | 445.78 | ✓ 4.08 | ① | | |
| W | 445.10 | - 2.67 | W | 442.10 | 5.67 | W | 445.68 | 4.18 | E | 450.66 | 4.44 |
| 1+45 ⁵⁴ | | | 4+15 ⁵⁴ | | 6+43 ¹⁵ E.C. | | | | W | 450.62 | 4.48 |
| E | 445.10 | 2.67 | E | 442.10 | - 5.67 | E | 446.40 | + 3.46 | ② | 445.10 | |
| W | 445.50 | - 2.27 | W | 442.30 | 5.47 | W | 446.20 | - 3.66 | E | 450.82 | 4.28 |
| 1+65 ⁵⁴ | | | 4+35 ⁵⁴ | | 6+79 ⁸⁹ | | | | W | 450.73 | 4.37 |
| E | 445.10 | 2.67 | E | 442.30 | 5.47 | E | 447.10 | 2.76 | ③ | | |
| W | 445.60 | - 2.17 | W | 442.60 | 5.17 | W | 447.15 | 2.71 | E | 450.98 | 4.12 |
| Alley | | | 4+55 ⁵⁴ | E.V.C. B.C. | 7+16 ⁵⁴ | B.C. | | | W | 450.95 | 4.25 |
| 1+72 ²⁵ | | | | | | | | | | | |
| W | 445.53 | 2.26 | E | 442.70 | 5.09 | E | 447.80 | 2.06 | ④ | | |
| E.V.C. | | | W | 443.10 | 4.67 | W | 448.10 | 1.76 | E | 451.14 | 3.96 |
| 1+85 ⁵⁴ | | | | | | | | | W | 450.96 | 4.14 |
| W | 445.40 | 2.37 | | | | | | | | | |
| E | 445.00 | 2.77 | | | | | | | | | |
| Alley | | | | | | | | | | | |
| 2+01 ⁰³ | | | | | | | | | | | |
| W | | | ① | 449.86 | | E | 448.20 | 1.66 | B.C. Return | | |
| | | | E | 443.32 | ✓ 6.54 | W | 448.60 | 1.26 | E | 451.30 | 3.80 |
| | | | W | 443.62 | ✓ 6.24 | | | | W | 451.10 | 4.00 |

Curvaco 5 Parts

457.93

NE Returns 56 & Adams

| | | | | | | | |
|----------------------|--------|------|------|--------|--------|------|--------|
| PC. Ret. Dr. | 451.30 | 6.63 | 3+80 | 459.72 | | | |
| | 451.40 | 6.53 | E | 456.10 | -3.62 | | |
| | 451.50 | 6.43 | W | 455.60 | -4.12 | | |
| PC. Adams | 451.60 | 6.33 | 4+00 | | | | |
| NW | | | E | 455.90 | ✓3.82 | | |
| PC. Ret. Dr. | 451.10 | 6.83 | W | 455.50 | ✓4.22 | 0+50 | |
| | 451.00 | 6.93 | 4+20 | | | E | 442.90 |
| | 450.95 | 7.09 | E | 455.60 | -4.12 | W | 442.40 |
| PC. Adams | 450.60 | 7.33 | W | 455.20 | ✓4.52 | 0+70 | |
| SW | | | 4+40 | | | E | 442.30 |
| PC. 56 th | 451.65 | 6.28 | E | 455.00 | ✓4.72 | W | 441.80 |
| | 451.50 | 6.43 | W | 454.60 | ✓5.12 | 0+90 | |
| | 451.35 | 6.58 | 4+60 | | | E | 441.90 |
| PC. Adams | 451.10 | 6.83 | E | 454.20 | ✓5.52 | W | 441.40 |
| SE | | | W | 453.80 | ✓5.72 | 1+10 | |
| PC. 56 th | 452.15 | 5.78 | 4+80 | | | E | 441.60 |
| | 452.00 | 5.93 | E | 453.30 | ✓6.42 | W | 441.10 |
| | 452.00 | 5.93 | W | 452.90 | ✓6.82 | 1+30 | |
| PC. Adams | 452.15 | 5.78 | 5+00 | | | E | 441.40 |
| 3+40 | 457.93 | | E | 452.30 | -7.42 | W | 440.90 |
| E | 456.00 | 1.93 | W | 451.90 | ✓7.82 | 1+50 | |
| W | 455.50 | 2.43 | 5+90 | | | E | 441.40 |
| 3+60 | 457.72 | | E | 447.10 | ✓12.62 | W | 440.90 |
| E | 456.10 | 3.62 | W | 446.60 | 13.12 | 1+70 | |
| W | 455.60 | 4.12 | | | | E | 441.50 |

443.10
32.85
446.75
3.10
443.65

D+10

448.66

| | | | | | |
|------|--------|------|------|--------|------|
| E | 444.30 | 4.36 | E | 441.80 | 6.86 |
| W | 443.90 | 2.79 | W | 441.40 | 5.85 |
| 0+30 | | | 3+30 | | |
| E | 443.60 | 5.06 | E | 444.20 | 4.46 |
| W | 443.10 | 3.65 | W | 443.60 | 3.11 |
| 0+50 | | | 3+50 | 448.06 | |
| E | 442.90 | 5.76 | E | 444.40 | 3.66 |
| W | 442.40 | 4.25 | W | 443.90 | 3.11 |
| 0+70 | | | 3+70 | | |
| E | 442.30 | 6.36 | E | 444.50 | 3.56 |
| W | 441.80 | 4.89 | W | 444.10 | 2.91 |
| 0+90 | | | 3+90 | | |
| E | 441.90 | 6.76 | E | 444.60 | 3.46 |
| W | 441.40 | 5.29 | W | 444.20 | 2.81 |
| 1+10 | | | 4+10 | | |
| E | 441.60 | 7.06 | E | 444.60 | 3.46 |
| W | 441.10 | 5.65 | W | 444.10 | 2.91 |
| 1+30 | | | 4+30 | | |
| E | 441.40 | 7.26 | E | 444.50 | 3.56 |
| W | 440.90 | 5.85 | W | 444.00 | 3.01 |
| 1+50 | | | 4+50 | | |
| E | 441.40 | 7.26 | E | 444.30 | 3.76 |
| W | 440.90 | 5.85 | W | 443.70 | 3.31 |
| 1+70 | | | 4+70 | | |
| E | 441.50 | 7.16 | E | 443.90 | 4.16 |
| W | 441.78 | 5.85 | W | 443.30 | 3.71 |

446.69
1.26
448.66

1+90

447.10
1.52
448.66

448.66

437.67
 9.36
 447.01
 25.91
 441.10
 3.59
 446.69

447.10
 1.45
 448.55

H+90 448.06
 E 443.50 2.56
 W 447.01 4.11
 442.90
 7+29²⁰
 E 437.40 10.66
 7+39²⁰
 E 437.20 10.86
 7+49²⁰
 E 437.10 10.96
 7+99²⁰
 E 437.10 10.96
 8+03²⁰
 135.13

448.55
 3+00
 N 444.70 3.85
 S 444.20 4.35
 2+40
 N 442.00 6.55
 S 441.50 7.05
 2+20
 N 440.90 7.65
 S 440.40 8.15

447.70
 11.02
 2.70
 1.35
 444.70
 443.35
 448.55
 5.20
 447.10
 18.02
 457.54
 0.90
 456.64
 6.85
 463.49
 44.20
 41.50
 2.70
 44.20
 1.35
 42.85
 48.57
 5.70

Returns Madison & 56th

NW 448.66
 on Madison 10' w of PC 444.70
 PC Madison 445.10 3.56
 445.60 3.06
 446.05 2.61
 PC 56th 446.60 2.06
 S.W. 448.84
 on Madison 10' w of PC 444.20 6.4
 PC Madison 444.50 4.34
 444.60 4.24
 444.30 4.54
 PC 56th 443.90 4.94

NE 448.84
 PC 56th 447.10 1.74
 446.50 2.34
 446.20 2.64
 PC Madison 446.20 2.64
 S.E. 448.84
 PC 56 444.30 4.54
 444.75 4.09
 445.30 3.54
 PC Madison 445.75 3.09

0+20 457.54
 N 446.5 11.04
 PCS El Cerrito
 N 459.10
 S 459.60

463.49
 4.00
 459.49
 463.49
 3.39
 460.11

a b stakes Adams
55m - 56m

| | | | |
|------|--------|------|--------|
| 1+10 | 431.96 | | |
| N | 442.60 | 7.36 | |
| S | 442.20 | 7.76 | |
| 1+30 | | | |
| N | 443.90 | 8.06 | |
| S | 443.50 | 8.46 | |
| 1+47 | | | |
| N | 444.84 | 7.32 | 445.10 |
| S | 444.44 | 7.52 | 444.70 |
| 1+73 | | | |
| N | 446.15 | 5.81 | 446.10 |
| S | 445.95 | 6.21 | 445.70 |
| 1+90 | | | |
| N | 446.80 | 5.16 | |
| S | 446.50 | 5.46 | |

451.78
0.18
451.96

423.31
3.64
423.95

| | | | |
|--------------------|--------|--|--|
| 2+08 ⁶⁰ | 424.91 | | |
| E | 422.20 | | |
| 0+10 | | | |
| W | 421.50 | | |
| 0+20 | | | |
| W | 421.30 | | |
| 0+30 | | | |
| W | 421.00 | | |
| 0+90 SL Gilbert Dr | | | |
| W | 418.50 | | |
| 1+08 ⁶⁰ | | | |
| E | 417.90 | | |
| 1+28 ⁶⁰ | | | |
| E | 417.10 | | |
| 1+30 ML Gilbert | | | |
| | 416.88 | | |
| | 417.00 | | |
| 1+48 ⁶⁰ | | | |
| E | 416.50 | | |
| W | 416.40 | | |
| 1+63 ⁶⁰ | | | |
| E | 416.00 | | |
| 1+68 ⁶⁰ | | | |
| W | 415.90 | | |
| 2+08 ⁶⁰ | | | |
| E | 415.60 | | |

Grows feet 55th
421.77
422.31
2.60
424.91

| | | | |
|--------|--------------------|--------|------|
| 424.91 | | | |
| 2.31 | 2+28 ⁶⁰ | | 5.41 |
| 3.41 | E | 415.70 | 7.21 |
| 3.61 | W | 415.60 | 9.31 |
| 3.61 | 2+47 ¹⁰ | | |
| 3.91 | E | 415.90 | 9.03 |
| | W | 415.80 | 9.11 |
| | 2+67 ¹⁰ | | |
| | E | 416.40 | 8.51 |
| | W | 416.10 | 8.91 |
| | 4+48 ⁶⁰ | 425.95 | |
| | E | 420.50 | 5.45 |
| | W | 419.90 | 6.05 |
| | 4+68 ⁶⁰ | | |
| | E | 420.90 | 5.05 |
| | W | 420.20 | 5.75 |
| | 4+88 ⁶⁰ | | |
| | E | 421.20 | 4.75 |
| | W | 420.40 | 5.55 |
| | 5+08 ⁶⁰ | | |
| | E | 421.30 | 4.65 |
| | W | 420.50 | 5.45 |
| | 5+28 ⁶⁰ | | |
| | E | 421.30 | 4.65 |
| | W | 420.60 | 5.35 |

425.00
9.84
435.28
1.66
433.62
5.69
439.25
5+48.60

Crows feet 55

425.95

428.47

7+97¹⁰

E 421.20 4.75

E 420.22 8.27

W 420.50 5.45

W 419.72 8.77

5+68⁶⁰

8+17¹⁰

E 420.90 5.05

E 421.45 7.04

W 420.20 5.95

W 420.95 7.54

6+67¹⁰

428.49

8+67¹⁰

SL Madison

E 419.02 9.47

E 424.75 3.74

W 418.52 9.97

W 424.05 4.44

6+97¹⁰

9+17¹⁰

435.28
NL Madison

E 418.52 9.97

E 426.50 8.78

W 418.02 10.47

W 426.00 9.28

7+17¹⁰

10+27¹⁰

E 418.26 10.23

E 429.75 5.53

W 417.76 10.73

W 429.25 6.03

7+37¹⁰

11+67¹⁰

SL Sista

E 418.17 10.32

E 431.50 3.78

W 417.67

W 431.00 4.28

7+57¹⁰

8+17¹⁰

NL Sista

E 418.23

E 432.25 3.03

W 417.73

W 431.75 3.53

7+77¹⁰

9+57¹⁰

439.25

E 419.15 9.34

E 434.00 5.25

W 418.65 9.84

W 433.50 5.75

20 stakes AC1116 55B west.

438.43
0.22
438.25
13.01
425.04
3.12
428.76

55

N 424.20 4.56

S 423.90 5.06

2
N 423.40 5.36

S 423.00 5.74

3
N 422.80 5.96

S 422.40 6.36

4
N 422.25 6.51

S 421.90 6.86

5
N 422.00 6.76

S 421.50 7.26

70.06
7.25
6.78
31

7.65

8.15

0.0000

418.72

3.94

422.66

415.10

7.56

422.66

414.8

7.86

418.65

41.46

418.19

428.47

10.32

| | | | |
|---------------------|----------|------|--------------------------|
| 10+97 ^{le} | 439.25 | | |
| E | 433.06 | 6.19 | 439.25 434.00 5.25 |
| W | 432.56 | 6.69 | 439.25 434.70 4.55 |
| 11+07 ^{lo} | SL Adams | | |
| E | 433.50 | 5.75 | 439.25 435.28 3.97 |
| W | 432.50 | 6.75 | 439.25 434.70 4.55 |
| | | | 439.25 434.60 4.65 |
| | | | 439.25 433.50 5.75 |
| | | | 439.25 433.10 6.15 |
| | | | 439.25 432.17 6.55 |
| | | | 439.25 432.4 6.85 |
| | | | 439.25 432.2 7.05 |

418.70
3.23
421.95

413.72
2.68
421.40

| | | | |
|--------------------------------|--------|---------------------|---------------------|
| Returns Adams + Hinson Pl. | | NW | |
| SE | 421.95 | PC SA th | 413.40 ✓ 8.00 |
| PC Adams | 414.80 | | 413.35 ✓ 8.05 |
| | 414.60 | | 413.27 ✓ 8.13 |
| | 414.25 | | 413.15 ✓ 8.25 |
| PC H.PI. | 414.10 | PC Adams | 413.00 8.40 |
| SW | | SW | |
| PC Adams | 414.10 | PC SA th | 409.60 ✓ 11.80 |
| | 414.20 | | 410.60 ✓ 10.80 |
| | 414.20 | | 411.00 ✓ 10.40 |
| PC H.PI. | 414.10 | | 410.70 ✓ 10.70 |
| Returns SA th Adams | | PC Adams | 410.00 ✓ 11.40 |
| NE | | | 415.44 5.96 |
| PC SA th | 413.50 | | 415.50 5.90 |
| | 413.40 | | |
| | 413.40 | | |
| PC Adams | 413.55 | | |
| SE | | | 413.40 412.70 |
| PC SA th | 412.30 | | 2.52 415.92 5.70 |
| | 412.70 | | 12.70 3.22 |
| | 413.00 | | |
| PC Adams | 413.15 | | |
| HL Adams | | | |
| W.L. Hinson | 414.60 | | |
| N.L. Adams | | | |
| EL Hinson | 415.10 | | |

410.08
3.07
406.99

cb stakes Hinson Pl.

418.72
1.89
420.61
11.11
409.50
0.58
410.08

Profile for change of culvert
at 54th & Adams

57

| | | | | | |
|----------------|----------------|------|---------|--------|------|
| D+10 | H.I. 420.61 | | 3+80 | 410.08 | |
| E | 413.91 | 6.71 | E | 402.10 | 7.98 |
| W | 413.91 | 6.71 | W | 402.10 | 7.98 |
| 1+80 | 410.08 | | 4+00 | | |
| E | 406.35 | 3.73 | E | 402.0 | 8.08 |
| W | 406.35 | 3.73 | W | 402.0 | 8.08 |
| 2+00 | | | 4+19.81 | 402.0 | 8.08 |
| E | 405.70 | 4.38 | | | |
| W | 405.70 | 4.38 | | | |
| 2+20 | | | | | |
| E | 405.10 | 4.98 | | | |
| W | 405.10 | 4.98 | | | |
| 2+80 | | | | | |
| E | 404.15 | 5.93 | | | |
| W | 404.15 | 5.93 | | | |
| P.C. 3+00 | | | | | |
| E | 403.20 | 6.88 | | | |
| W | 403.20 | 6.88 | | | |
| P.R.C. 3+26 | | | | | |
| E | 402.85 | 7.23 | | | |
| W | 402.85 | 7.23 | | | |
| 3+60 | | | | | |
| E | 402.40 | 7.68 | | | |
| W | 402.40 | 7.68 | | | |

| | | |
|------|--------|--------|
| 3 32 | 412.92 | 409.60 |
| 0+00 | | 1.00 |
| | | 411.9 |
| +13 | | 2.3 |
| | | 410.6 |
| +50 | | 3.5 |
| | | 409.4 |
| +100 | | 6.1 |
| | | 406.9 |
| +50 | | 7.1 |
| | | 403.8 |
| +95 | | 10.6 |
| | | 402.3 |
| 2+28 | | 31.1 |
| | | 381.8 |
| 2+38 | | 36.0 |
| | | 376.9 |
| 2+48 | | 37.8 |
| | | 375.1 |

eb stakes Collier 54th to 55th

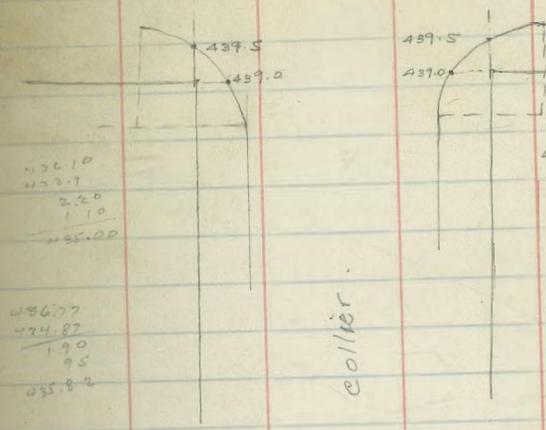
Returns 54th Collier

| | | | | | |
|--------------|--------|------|------|--------|------|
| SE | 423.27 | | 6+37 | 420.88 | |
| P.C. 54th | 415.44 | 7.83 | N | 414.40 | 6.4 |
| | 415.50 | 7.77 | S | 414.90 | 5.71 |
| | 415.50 | 7.77 | 6+57 | | |
| P.C. Collier | 415.50 | | N | 415.60 | 5.28 |
| NE | | | S | 416.10 | 4.78 |
| P.C. Collier | 415.00 | 8.27 | 6+77 | | |
| | 415.00 | 8.27 | N | 417.00 | 3.88 |
| P | 414.90 | 8.37 | S | 417.40 | 3.48 |
| 5+37 | 420.88 | | 6+97 | | |
| N | 412.40 | 8.48 | N | 418.50 | 2.38 |
| S | 412.90 | 7.98 | S | 418.65 | 2.03 |
| 5+57 | | | | | |
| N | 412.40 | 8.48 | | | |
| S | 412.90 | 7.98 | | | |
| 5+77 | | | | | |
| N | 412.60 | 8.28 | | | |
| S | 413.10 | 7.78 | | | |
| 5+97 | | | | | |
| N | 413.00 | 7.88 | | | |
| S | 413.50 | 7.38 | | | |
| 6+17 | | | | | |
| N | 413.60 | 7.28 | | | |
| S | 414.10 | 6.78 | | | |

423.37
415.15
414.12
420.88

416.72
455.
423.27
3.86
412.61

Pavement Elevs.



V.C. No of Adams

| | | |
|---|--------|------|
| 1 | 444.79 | |
| E | 436.77 | 8.02 |
| W | 436.10 | 8.69 |
| 2 | | |
| E | 437.40 | 7.39 |
| W | 436.90 | 7.89 |
| 3 | | |
| E | 438.00 | 6.79 |
| W | 437.56 | 7.29 |
| 4 | | |
| E | 438.50 | 6.29 |
| W | 438.00 | 6.79 |

V on 55th

58

55th

436.10
423.7
2.20
1.10
435.00

436.77
434.87
1.90
.95
435.82

collier

438.43
6.36
444.79-4.1
5.55
439.24
4.15
443.39
444.79
438.9 W
444.79
435.00
9.79
444.79
434.87 E
9.72

444.79
435.82
8.97

| | | |
|---|--------|------|
| S | 444.79 | |
| E | 438.90 | 5.89 |
| W | 438.40 | 6.39 |
| 6 | | |
| E | 439.20 | 5.59 |
| W | 438.70 | 6.09 |
| 7 | | |
| E | 439.50 | 5.29 |
| W | 438.90 | 5.89 |

444.79
440.
4.79

443.39
36.30
7.09

43.89
35.50
8.09

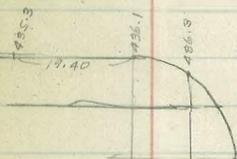
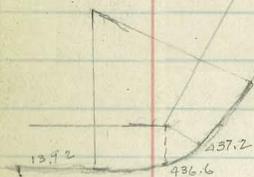
43.37
35
7.27

43.39
36.1
7.29

43.37
36.6
6.79

43.39
37.29
6.1

43.39
38
5.39



43.39
37.29
6.1

43.37
37.15
6.22

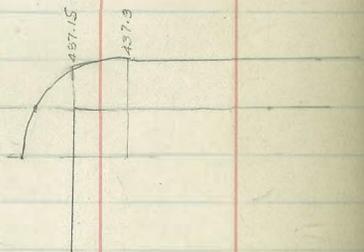
2.26
1.3
1.96

Redland Dr.

440.5

443.37
9.25
434.14
2.70
436.24

55m



Redland Drive

449.75

1.00
448.75
7.22
455.97

436.54
10.82
447.36
3.84
443.52
6.21
449.75

47.36
4.21
43.26

59

V.C. E of 55m

1 447.36

E 441.70

W 442.00

2

E 442.70

W 443.10

3

E 443.70

W 444.10

4

E 444.30

W 444.60

5

E 444.60

W 445.00

6

E 444.60

W 445.10

7

E 444.50

W 444.90

5.66

5.36

4.46

4.26

3.66

3.26

3.06

2.76

2.76

2.36

2.76

2.26

2.36

2.46

V.C. E of 55m

1 449.75

E 442.00

W 442.10

2

E 441.70

W 441.80

3

E 441.50

W 441.60

4

E 441.50

W 441.50

5

E 441.40

W 441.40

6

E 441.80

W 441.90

7 B.C.

E 442.20

W 442.60

CURVE

①

E 442.82

W 443.12

7.75

7.65

8.05

7.95

8.25

8.15

8.25

8.25

8.35

8.35

7.95

7.85

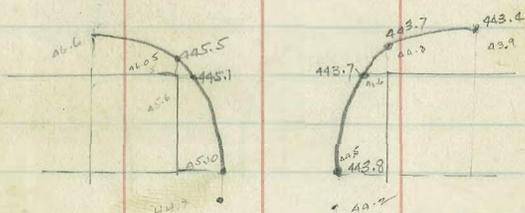
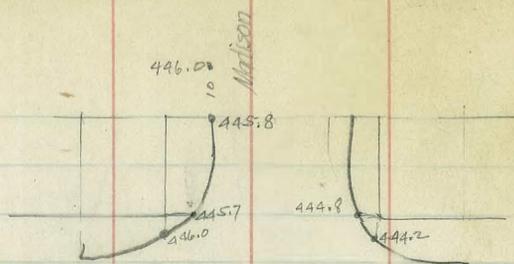
7.55

7.15

6.93

6.63

← N



56 ft

459.15
12.09
447.06
7.30
454.36

54.36
46
8.36

54.36
48
70.76

54.36
45.5
8.86

54.36
45.5
8.56

54.36
45.7
8.66

54.36
43.7
10.66

54.36
46
8.36

54.36
44.8
9.56

54.36
41.2
10.16

56 ft

V.C. of Madsen

P.V.C.

B.V.C.

E

W

③

E

W

④

E

W

⑤

E

W

⑥

E

W

⑦

E

W

⑧

E

W

454.36

443.16

442.60

442.40

441.90

441.80

441.30

449.33

441.40

440.90

441.10

440.60

440.90

440.90

11.26

11.76

11.96

12.46

12.56

13.06

7.93

8.43

8.23

8.73

8.43

8.43

449.33
7.84
441.49
3.01
444.50

①

E

W

E.V.C.

E

W

B.V.C.

E

W

①

E

W

②

E

W

③

E

W

④

E

W

⑤

E

W

454.36
12.49
441.87
7.46
449.33

449.33

441.00

440.60

441.30

440.90

449.33

443.70

443.10

443.90

443.40

444.00

443.60

444.10

443.70

444.10

443.60

444.00

443.50

61

8.33

8.73

8.03

8.43

5.63

6.23

5.43

5.73

5.33

5.73

5.23

5.63

5.73

5.73

5.33

5.83

444.50
6.80
437.65

V 112

| | | |
|--------|--------|------|
| ① | 449.33 | |
| E | 443.80 | 5.53 |
| W | 443.20 | 6.13 |
| ② | 4 | |
| E | 443.40 | 5.93 |
| W | 442.80 | 6.53 |
| E.V.C. | | |
| E | 443.00 | 6.33 |
| W | 442.40 | 6.93 |
| | 444.50 | |
| | 436.98 | 7.60 |
| | 436.80 | 7.70 |
| | 436.70 | 7.80 |

Adams

| | | |
|--------|--------|-------|
| E.V.C. | 434.22 | |
| N | 421.50 | 12.72 |
| S | 421.00 | 13.22 |
| ① | | |
| N | 431.75 | 12.47 |
| S | 421.40 | 12.82 |
| ② | | |
| N | 422.30 | 11.92 |
| S | 421.90 | 12.22 |
| ③ | | |
| N | 422.90 | 11.32 |
| S | 422.50 | 11.72 |

| | | |
|--------|--------|-------|
| E.V.C. | 434.22 | |
| N | 423.70 | 10.52 |
| S | 423.20 | 11.02 |

433.65-BM,
0.57
434.22

V 112 55° 56th

| | | |
|--------|--------|-------|
| E.V.C. | 452.77 | |
| N | 446.30 | 6.47 |
| S | 446.00 | 6.77 |
| ① | | |
| N | 445.58 | 7.19 |
| S | 445.19 | 7.58 |
| ② | | |
| N | 444.39 | 8.38 |
| S | 444.00 | 8.77 |
| ③ | | |
| N | 443.40 | 9.37 |
| S | 443.00 | 9.77 |
| E.V.C. | | |
| N | 442.10 | 10.67 |
| S | 441.70 | 11.07 |

451.78
0.99
452.77

5.84
6.04
1.13
5.91

413.40
6.14
419.54

419.54
414.10
5.44
419.54
414.60
6.64
419.54
412.65
6.89

413.40
5.62
419.02

17.02
14.83
4.17

19.02
412.78
6.29

19.04
14.83
4.17

19.02
12.33
6.67

19.02
14.15
4.52

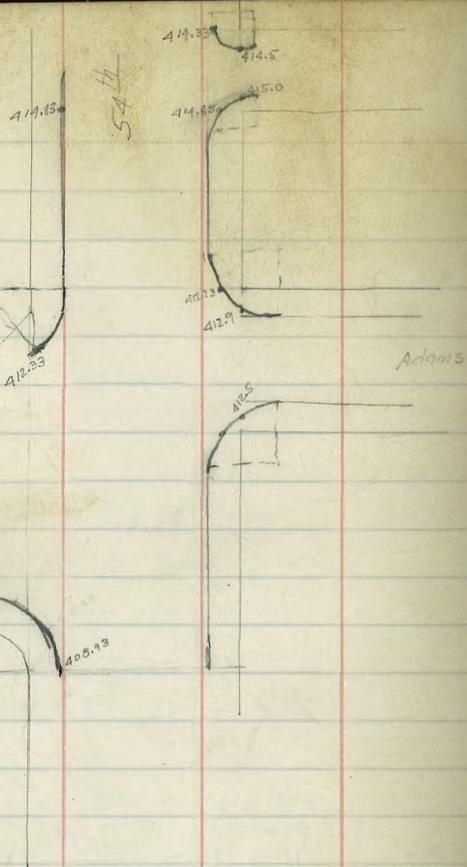
19.02
14.33
4.67

418.72
4.41
423.13
442.4
10.73

23.13
14.4
8.73

23.13
15.60
7.53

23.13
9.50
13.63



| | | |
|--------|--------|-------|
| E.V.C. | 423.13 | |
| N | 411.90 | 11.23 |
| S | 412.40 | 10.73 |
| ① | | |
| N | | |
| S | | |
| ② | | |
| N | 412.10 | |
| S | 412.60 | 10.53 |
| ③ | | |
| N | 412.50 | |
| S | 413.00 | 10.13 |
| ④ | | |
| N | 413.10 | |
| S | 413.60 | 9.53 |
| ⑤ | | |
| N | 413.90 | 9.23 |
| S | 414.40 | 8.73 |
| ⑥ | | |
| N | 415.10 | 8.03 |
| S | 415.60 | 7.53 |
| ⑦ | | |
| N | 416.50 | 6.63 |
| S | 416.90 | 6.23 |
| E.V.L. | | |
| N | 418.00 | 5.13 |
| S | 418.35 | 4.78 |

412.40
2.5
416.55
5.36
411.17

12.4
12.4

12.6

13.0

13.6

14.4

15.6

Blue-Tops 51th Adams to El Cajon

383.84
~~672~~
 377.12
 12.65
 389.77
 8+95

396.21
 12.85
 383.36
 0.48
 383.84
 396.21

61

| | | | | | | | | | | | |
|-------------|--------|------|------|--------|------|------|--------|-------|------|--------|------|
| | | | 5+15 | 383.84 | | 6+15 | 383.84 | | | | |
| BVC 3+55 | 389.87 | | E | 377.85 | 5.99 | E | 381.20 | 2.64 | E | 393.50 | 2.71 |
| E | 384.55 | 5.32 | W | 377.45 | 6.39 | W | 380.90 | 2.94 | W | 393.40 | 2.81 |
| W | 384.20 | 5.67 | 5+35 | | | 7+15 | | | 9+15 | 396.21 | |
| 3+75 | 383.84 | | E | 377.65 | 6.19 | E | 382.30 | 1.54 | E | 394.30 | 1.91 |
| E | 383.20 | 0.64 | W | 377.30 | 6.54 | W | 382.00 | 1.84 | W | 394.20 | 2.01 |
| W | 382.90 | 0.94 | 5+55 | 383.84 | | 7+35 | 396.21 | | 9+35 | | |
| 3+95 | 383.84 | | E | 377.60 | 6.24 | E | 383.60 | 12.61 | E | 395.00 | 1.21 |
| E | 382.00 | 1.84 | W | 377.20 | 6.64 | W | 383.35 | 12.86 | W | 394.90 | 1.31 |
| W | 381.70 | 2.14 | 5+75 | | | 7+55 | | | 9+55 | | |
| 4+15 | | | E | 377.70 | 6.14 | E | 384.80 | 11.41 | E | 395.50 | 0.71 |
| E | 381.00 | 2.84 | W | 377.25 | 6.59 | W | 384.70 | 11.51 | W | 395.50 | 0.71 |
| W | 380.60 | 3.24 | 5+95 | 383.84 | | 7+95 | 396.21 | | 9+75 | | |
| 4+35 | | | E | 377.95 | 5.89 | E | 387.80 | 8.41 | E | 396.00 | 0.21 |
| E | 380.05 | 3.79 | W | 377.50 | 6.34 | W | 387.60 | 8.61 | W | 395.90 | 0.31 |
| W | 379.70 | 4.14 | 6+15 | | | 8+15 | | | 9+95 | | |
| 4+55 | | | E | 378.30 | 5.54 | E | 389.20 | 7.01 | E | 396.30 | |
| E | 379.30 | 4.54 | W | 377.95 | 5.89 | W | 389.00 | 7.21 | W | 396.20 | 0.01 |
| W | 378.90 | 4.94 | 6+35 | | | 8+35 | | | | | |
| 4+75 | | | E | 378.80 | 5.04 | E | 390.50 | 5.71 | | | |
| E | 378.65 | 5.19 | W | 378.45 | 5.39 | W | 390.30 | 5.91 | | | |
| W | 378.30 | 5.54 | 6+55 | | | 8+55 | | | | | |
| 4+95 | | | E | 379.40 | 4.40 | E | 391.60 | 4.61 | | | |
| E | 378.20 | 5.64 | W | 379.10 | 4.74 | W | 391.45 | 4.76 | | | |
| W | 377.80 | 6.04 | 6+75 | | | 8+75 | | | | | |
| | | | E | 380.20 | 3.64 | E | 392.65 | 3.56 | | | |
| | | | W | 379.90 | 3.94 | W | 392.55 | 3.66 | | | |

| | | | | | |
|------|--------|-------|---|--------|------|
| ① | 408.10 | | | 408.10 | |
| E | 397.20 | 10.90 | W | 403.40 | 4.70 |
| W | 397.02 | 11.08 | | | |
| ② | 408.10 | | W | 403.40 | 4.70 |
| E | 398.10 | 10.00 | | | |
| W | 397.84 | 10.26 | W | 403.20 | 4.90 |
| ③ | | | | | |
| E | 399.00 | 9.10 | W | 402.70 | 5.40 |
| W | 398.66 | 9.44 | W | | |
| ④ | 408.10 | | E | 403.00 | 5.10 |
| E | 397.90 | 8.20 | | | |
| W | 399.48 | 8.62 | E | 403.80 | 4.30 |
| ⑤ | | | | | |
| E | 400.80 | 7.30 | E | 404.60 | 3.50 |
| W | 400.30 | 7.80 | | | |
| | | | | | |
| E | 401.50 | 6.60 | | | |
| W | 401.00 | 7.10 | | | |
| P.C. | | | | | |
| E | 402.20 | 5.90 | | | |
| W | 401.70 | 6.40 | | | |
| ① | | | | | |
| W | 402.45 | 5.65 | | | |
| ② | | | | | |
| W | 403.20 | 4.90 | | | |

| | |
|--------------|--------|
| 389.87 | 402.06 |
| <u>0.25</u> | 6.04 |
| 389.62 | 408.10 |
| <u>13.10</u> | 12.60 |
| 402.72 | 395.50 |
| <u>0.35</u> | 0.71 |
| 402.37 | 396.21 |
| <u>11.82</u> | |
| 414.19 | |
| <u>0.74</u> | |
| 413.45 | |

439.16'

439.00'

11624

1/1 Dec

Check grade stakes on 55 (See P 13)

Water line on College Way.
9/12/29 London.

76

| | Check | Grade | Stakes | on | 55 | (See P 13) | 469.1 | El. | grade | | | |
|-------|--------------------|-------------|--------|--------|-----|------------|----------|-------|-------|-------|---------|--------|
| | | Cut or Fill | Marked | Actual | Cor | F to grade | | | | | | |
| East | 3+00 | c 2.7 | c 2.85 | | | | 0+00 | 59 | 462.2 | 458.8 | C 3.4 | 450.36 |
| " | 3+50 | c 2.5 | c 2.84 | | | | 0+30.35 | 4.1 | 464.0 | 458.2 | - c 5.8 | +11.35 |
| " | 4+00 | c 2.2 | c 2.50 | | | | 1+00 | 3.5 | 464.6 | 457.8 | c 6.8 | 461.71 |
| " | 4+48 ⁶⁰ | e 1.4 | c 1.60 | 8.00 | | | 1+50 | 5.0 | 463.1 | 457.6 | c 5.5 | - 2.22 |
| " | 4+88 ⁶⁰ | c 1.5 | c 1.68 | 6.40 | | | 2+00 | 6.1 | 462.0 | 457.3 | c 4.9 | 459.49 |
| " | 5+08 ⁶⁰ | c 2.9 | c 3.00 | 7.6 | | | 2+50 | 6.7 | 462.0 | 457.0 | c 5.0 | + 8.57 |
| " | 5+28 ⁶⁰ | c 4.0 | c 4.12 | 5.61 | | | 3+54.35 | 6.9 | 461.2 | 456.2 | c 5.0 | 468.06 |
| " | 5+48 ⁶⁰ | c 5.3 | c 5.50 | 7.21 | | | 4+14.35 | 7.0 | 461.1 | 455.3 | c 5.8 | 459.49 |
| " | 5+68 ⁶⁰ | c 6.4 | c 6.55 | 7.29 | | | 4+50 | 7.7 | 460.4 | 454.5 | c 5.9 | 4.66 |
| " | 6+17 ⁸⁵ | c 6.5 | c 6.66 | 7.21 | | | 5+00 | 8.6 | 459.5 | 453.3 | c 6.2 | 464.15 |
| West. | 6+17 ⁸⁵ | c 3.3 | c 3.45 | 4.21 | | | 5+50 | 5.0 | 459.1 | 452.2 | c 6.9 | 12.70 |
| " | 5+68 ⁶⁰ | c 3.5 | c 3.61 | 7.20 | | | 6+00 | 5.7 | 458.4 | 451.0 | c 7.4 | 451.25 |
| " | 5+48 ⁸⁵ | c 2.9 | c 3.05 | 7.20 | | | 6+50.35 | 4.7 | 459.4 | 450.4 | c 9.0 | +1.56 |
| " | 5+29 ⁶⁰ | c 2.1 | c 2.30 | 7.79 | | | 6+53.85 | 7.8 | 456.3 | 449.7 | c 6.6 | 452.81 |
| " | 5+08 ⁸⁵ | c 1.4 | c 1.55 | 5.63 | | | 6+58.35 | 8.1 | 456.0 | 449.0 | c 7.0 | -12.75 |
| " | 4+88 ⁶⁰ | c 0.5 | c 0.72 | 8.03 | | | 7+14.35 | 8.4 | 455.7 | 447.4 | c 8.3 | 440.06 |
| " | 4+68 ⁶² | F 0.1 | c 0.10 | 6.48 | | | 7+74.35 | 12.9 | 451.2 | 443.7 | c 7.5 | + 0.34 |
| " | 4+48 ⁶⁰ | F 0.8 | F 0.56 | 8.11 | | | 8+39.35 | 152.8 | 450.6 | 440.0 | c 10.6 | 440.38 |
| " | 4+00 | F 0.6 | F 0.95 | 7.37 | | | 8+84.35 | 8.3 | 444.5 | 437.3 | c 7.2 | -12.20 |
| " | 3+50 | c 1.5 | c 1.75 | 8.32 | | | 9+39.35 | 2.2 | 450.6 | 440.0 | c 10.6 | 428.18 |
| " | 3+00 | c 2.7 | c 2.76 | 8.00 | | | 9+84.35 | 8.3 | 444.5 | 437.3 | c 7.2 | + 0.44 |
| | | | | 10.00 | | | 10+39.35 | 7.1 | 433.3 | 434.6 | F 1.3 | 428.62 |
| | | | | 11.71 | | | 11+14.35 | 10.9 | 417.7 | 433.8 | F 16.1 | - 0.27 |
| | | | | 8.75 | | | 11+59.35 | 4.5 | 424.1 | 433.6 | F 9.5 | 428.35 |
| | | | | | | | 12+14.35 | 4.1 | 424.1 | 433.6 | F 9.5 | +12.77 |
| | | | | | | | 12+59.35 | 2.0 | 439.1 | 436.0 | C 3.1 | 441.14 |
| | | | | | | | 13+14.35 | 6.0 | 446.9 | 439.6 | c 7.3 | 0.13 |
| | | | | | | | 13+59.35 | 2.5 | 450.4 | 442.0 | c 8.4 | 441.01 |
| | | | | | | | 14+14.35 | | | | | +11.92 |
| | | | | | | | 14+59.35 | | | | | 452.93 |
| | | | | | | | 15+14.35 | | | | | - 0.54 |
| | | | | | | | 15+59.35 | | | | | 452.39 |
| | | | | | | | 16+14.35 | | | | | 7.01 |
| | | | | | | | 16+59.35 | | | | | 459.40 |
| | | | | | | | 17+14.35 | | | | | - 6.91 |
| | | | | | | | 17+59.35 | | | | | 452.42 |
| | | | | | | | 18+14.35 | | | | | + 5.82 |
| | | | | | | | 18+59.35 | | | | | 458.31 |
| | | | | | | | 19+14.35 | | | | | 8.57 |
| | | | | | | | 19+59.35 | | | | | 449.74 |

| Brk | | E1 | grad E. | |
|----------------------------|--------------|-------|---------|-------|
| 12+54 ³⁵ | 7.2 | 452.6 | 445.8 | e 8.8 |
| 13+00 | 7.2 | 452.6 | 444.1 | e 8.5 |
| 13+50 | 7.5 | 451.9 | 444.4 | e 7.5 |
| 14+00 | 8.4 | 451.0 | 444.7 | e 6.3 |
| 14+50 | 8.1 | 451.3 | 445.0 | e 6.3 |
| 15+00 | 7.7 | 451.7 | 445.3 | e 6.4 |
| 15+50 | 6.2 | 453.2 | 445.6 | e 5.6 |
| 16+00 | 5.8 | 453.6 | 445.9 | e 7.7 |
| 16+50 | 6.9 | 452.5 | 446.3 | e 6.2 |
| 17+00 | 7.3 | 452.1 | 446.6 | e 5.5 |
| 17+50 | 8.1 | 451.3 | 446.9 | e 4.4 |
| Brk 17+94 ³⁵ | 5.8 | 453.6 | 447.2 | e 6.4 |
| 18+39 ¹³ | e 5.8 | 453.6 | 447.2 | e 6.4 |
| Brk 18+78 ³⁵ | 5.7 | 453.7 | 447.2 | e 6.5 |
| 19+00 | 5.9 | 453.5 | 447.1 | e 6.4 |
| 19+50 | 4.7 | 454.7 | 446.8 | e 7.9 |
| 20+00 | 6.2 | 453.2 | 446.6 | e 8.6 |
| 20+50 | 6.9 | 452.5 | 446.3 | e 6.2 |
| 21+00 | 458.3 6.3 | 452.0 | 446.1 | e 5.9 |
| 21+50 | 6.1 | 452.2 | 445.8 | e 6.4 |
| 22+00 | 6.9 | 451.4 | 445.6 | e 5.8 |
| 22+50 | 5.5 | 452.8 | 445.3 | e 7.5 |
| 23+00 | 7.9 | 450.4 | 445.1 | e 5.3 |
| 23+50 | 8.0 | 450.3 | 444.8 | e 5.5 |
| 2A+22 ¹² | 8.6 | 449.7 | 444.5 | e 5.2 |

37-87
0

4.70
4
5.10

5.27
4.10
1.17

6.14

5.31
5.27
5.79

DIRECTIONS FOR USE OF TABLES

TABLE No. 1.

Distance of slope stake from side or shoulder stake for any width roadway, slope $1\frac{1}{2}$ to 1. If ground is nearly level, the cut or fill at side stake is located by the double entry method in left column and top row. The number in body

~~of table in same row and column gives distance from side stake to slope stake. If ground is not~~

IMPROVED TABLES
AND
INFORMATION

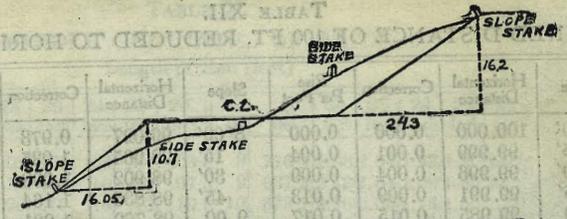
TABLE No. 2.

To find Tangent and External for curve of any other degree, divide by degree of curve and add correction found in column of corrections.

Degree of curve with a given L may be found by dividing tangent (or external), opposite L by given tangent (or external).

The distance from a point on the tangent to the curve is very nearly the square of the tangent length divided by twice the radius.

TABLE XIX
 INCL. OF 100 FT. REDUCED TO HORIZONTAL



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 | 1.65 | 1.80 | 1.95 | 2.10 | 2.25 | 2.40 | 2.55 | 2.70 | 2.85 | 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.

Field Books - Redbird Gardens = 64th

- 128A
- 1241
- 1276
- 1242
- 1240
- 1247

5 | 263.24
 52.65

76
 187.24
 263.24

4.56
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4.12

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9.16
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17
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36
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462
 383
 79

4.67
 4.26
 4.1

0
 0-2
 0-4
 1-0
 1-2
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To fit



451.8
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384.25

1725

18.4
 5.5
 187.24
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392
 14

01586
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926
 58.86

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0283
 4315
 1418
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 849

0283
 5.0
 14150

1132
 1221145

26324
 1725.00
 184268

0655.
 52
 1310
 3275
 34060

34.85

9853
 11-07

428.43
 0.96
 439.39
 5.74
 433.65

.03607

036
 53
 108
 150
 1908

939
 531
 408
 36

7.00
 58
 1189
 1189
 16.00

3 14688

38425

4.19

35006

349.

1.91
 346.09
 1.47
 344.62
 2.14
 342.48
 1.46
 341.02

00804
 53
 2472
 4020
 42672

139.32
 413.85

153.5
 93.9
 59.6
 36
 357.6
 1788

40.5
 36
 4430
 1215
 71580

3801456

2154-30

27-15
 27-15
 54-30

89-59-60
 27-15
 89 32 45

0655
 64

341
 38084

2620
 3930
 41920

0655
 12
 7510
 655
 7860

426.58
 424.83
 21.75
 87

38054
 .58
 38006

100.48
 33.47

426.58
 427.45
 87
 32

424.83
 87
 425.70
 87
 426.57