

122

6122

BOSTON

FIELD BOOK

No. 335

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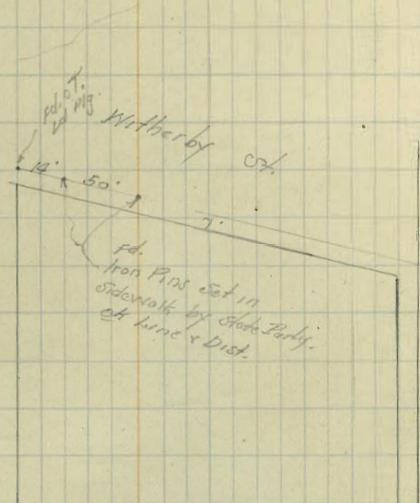
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IRVING PARK STATION
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Indefinite
12/20/24

Grades West Atlantic St
Harasthy St. to Borar Hill

Curb Grades

18.73
807.71 S. 7/4
Harasthy
Atlantic

5.28.19

| Station | Grade | Curb Grade | Notes | Station | Grade | Curb Grade | Notes |
|-----------------------------|-------|------------|--|---------|--------------------------------------|------------------------------|--|
| | 5.6 | N.L. | | | | | |
| E.L. Harasthy St | 9.50 | 10.50 | 8.500 8.72 13.74 8.700 Chastock W. Harasthy | N | 10.50 8.2 | 10.00 8.2 7.0 | 9.38 8.75 8.13 7.50 6.88 6.25 |
| W.L. Harasthy St | 9.00 | 10.00 | | | | | |
| 50' W | 8.54 | 9.38 | | S | 9.50 8.2 7.0 | 9.00 8.7 7.0 | 8.54 8.08 7.62 7.17 6.71 |
| 100' W | 8.08 | 8.75 | | | | | |
| 150' W | 7.62 | 8.13 | | | | | |
| 200' W | 7.17 | 7.50 | | | | | |
| 250' W | 6.71 | 6.88 | | | | | |
| 300' W = E.L. Clayton St | 6.25 | 6.25 | 8.500 8.73 8.91 9.10 9.28 9.47 8.500 Chastock Atlantic | N | 6.00 5.79 5.58 5.38 5.17 | 5.79 5.58 5.38 5.17 | 5.38 4.96 4.75 |
| W.L. Clayton St | 6.00 | 6.00 | | | | | |
| 50' W | 5.79 | 5.79 | | S | 6.00 5.79 5.58 5.38 5.17 | 5.79 5.58 5.38 5.17 | 5.38 4.96 4.75 |
| 100' W | 5.58 | 5.58 | | | | | |
| 150' W | 5.38 | 5.38 | | | | | |
| 200' W | 5.17 | 5.17 | | | | | |
| 250' W | 4.96 | 4.96 | | | | | |
| 300' W = E.L. Sutherland St | 4.75 | 4.75 | 8.500 8.73 8.91 9.10 9.28 9.47 8.500 Sutherland Atlantic | N | 4.50 4.33 4.16 4.00 | 4.33 4.16 4.00 | 4.16 3.83 3.50 |
| W.L. Sutherland St | 4.50 | 4.50 | | | | | |
| 50' W | 4.33 | 4.33 | | S | 4.50 4.33 4.16 4.00 | 4.33 4.16 4.00 | 4.16 3.83 3.50 |
| 100' W | 4.16 | 4.16 | | | | | |
| 150' W | 4.00 | 4.00 | | | | | |
| 200' W | 3.83 | 3.83 | | | | | |
| 250' W | 3.66 | 3.66 | | | | | |
| 300' W = E.L. York St | 3.50 | 3.50 | | | | | |

Grades West Atlantic St
Harshby St to Barnard Ave

| | SL | FL |
|------------------------------|------|------|
| W L Noell St | 3.50 | 3.50 |
| 50' W | 3.83 | 3.83 |
| 100' W | 4.16 | 4.16 |
| 150' W - 5' road | 4.50 | 4.50 |
| 200' W | 4.32 | 4.32 |
| 250' W | 4.14 | 4.14 |
| 300' W - FL Estrella St 3.95 | | 3.95 |

| | | |
|----------------------------|------|------|
| W L Estrella St | 3.70 | 3.70 |
| 50' W | 3.55 | 3.55 |
| 100' W | 3.40 | 3.40 |
| 150' W | 3.25 | 3.25 |
| 200' W | 3.10 | 3.10 |
| 250' W | 2.95 | 2.95 |
| 300' W - FL Wright St 2.80 | | 2.80 |

| | | |
|-----------------------------|------|------|
| W L Wright St | 2.10 | 2.10 |
| 50' W | 2.15 | 2.15 |
| 100' W | 2.30 | 2.30 |
| 150' W | 2.15 | 2.15 |
| 200' W | 2.00 | 2.00 |
| 250' W | 1.85 | 1.85 |
| 300' W - FL Barnard St 1.70 | | 1.70 |

7.67
2.16
5.51
2nd Fl
W. 1954 Atlantic

| N | 7.67 | 3.50 | 3.83 | 4.16 | 4.50 | 4.32 | 4.14 | 3.95 |
|---|------|------|------|------|------|------|------|------|
| | 2.16 | 2.16 | 2.16 | 2.16 | 2.16 | 2.16 | 2.16 | 2.16 |
| | 5.51 | 5.51 | 5.51 | 5.51 | 5.51 | 5.51 | 5.51 | 5.51 |

| S | 3.50 | 3.83 | 4.16 | 4.50 | 4.32 | 4.14 | 3.95 |
|---|------|------|------|------|------|------|------|
| | 2.16 | 2.16 | 2.16 | 2.16 | 2.16 | 2.16 | 2.16 |
| | 5.51 | 5.51 | 5.51 | 5.51 | 5.51 | 5.51 | 5.51 |

5.11
2.16
3.95
2nd Fl
W. 1954 Atlantic

| N | 5.11 | 3.55 | 3.40 | 3.25 | 3.10 | 2.95 | 2.80 |
|---|------|------|------|------|------|------|------|
| | 2.16 | 2.16 | 2.16 | 2.16 | 2.16 | 2.16 | 2.16 |
| | 3.95 | 3.95 | 3.95 | 3.95 | 3.95 | 3.95 | 3.95 |

| S | 3.70 | 3.55 | 3.40 | 3.25 | 3.10 | 2.95 | 2.80 |
|---|------|------|------|------|------|------|------|
| | 2.16 | 2.16 | 2.16 | 2.16 | 2.16 | 2.16 | 2.16 |
| | 3.95 | 3.95 | 3.95 | 3.95 | 3.95 | 3.95 | 3.95 |

5.11
2.16
2.80
2nd Fl
W. 1954 Atlantic

| N | 2.10 | 2.15 | 2.30 | 2.15 | 2.00 | 1.85 | 1.70 |
|---|------|------|------|------|------|------|------|
| | 2.16 | 2.16 | 2.16 | 2.16 | 2.16 | 2.16 | 2.16 |
| | 3.95 | 3.95 | 3.95 | 3.95 | 3.95 | 3.95 | 3.95 |

| S | 2.10 | 2.15 | 2.30 | 2.15 | 2.00 | 1.85 | 1.70 |
|---|------|------|------|------|------|------|------|
| | 2.16 | 2.16 | 2.16 | 2.16 | 2.16 | 2.16 | 2.16 |
| | 3.95 | 3.95 | 3.95 | 3.95 | 3.95 | 3.95 | 3.95 |

5-4-27

Grades of Atlantic St
Harastby to Barnett

| Grade | Value | Value | BM | 0.51 | 0.52 | 0.53 | 0.54 | 0.55 | 0.56 | 0.57 | 0.58 | 0.59 | 0.60 |
|----------------|-------|-------|----|------|------|------|------|------|------|------|------|------|------|
| | 56 | 116 | | 0.51 | 0.52 | 0.53 | 0.54 | 0.55 | 0.56 | 0.57 | 0.58 | 0.59 | 0.60 |
| H. L. Witherby | 1.60 | 1.50 | | 0.51 | 0.52 | 0.53 | 0.54 | 0.55 | 0.56 | 0.57 | 0.58 | 0.59 | 0.60 |
| 50' - 8th | 1.52 | 1.25 | | 0.51 | 0.52 | 0.53 | 0.54 | 0.55 | 0.56 | 0.57 | 0.58 | 0.59 | 0.60 |
| 100' | 1.42 | | | 0.51 | 0.52 | 0.53 | 0.54 | 0.55 | 0.56 | 0.57 | 0.58 | 0.59 | 0.60 |
| 150' | 1.32 | | | 0.51 | 0.52 | 0.53 | 0.54 | 0.55 | 0.56 | 0.57 | 0.58 | 0.59 | 0.60 |
| 200' | 1.23 | | | 0.51 | 0.52 | 0.53 | 0.54 | 0.55 | 0.56 | 0.57 | 0.58 | 0.59 | 0.60 |
| 250' | 1.14 | | | 0.51 | 0.52 | 0.53 | 0.54 | 0.55 | 0.56 | 0.57 | 0.58 | 0.59 | 0.60 |
| 300' | 1.04 | | | 0.51 | 0.52 | 0.53 | 0.54 | 0.55 | 0.56 | 0.57 | 0.58 | 0.59 | 0.60 |
| 320' - 9th | 1.00 | 1.00 | | 0.51 | 0.52 | 0.53 | 0.54 | 0.55 | 0.56 | 0.57 | 0.58 | 0.59 | 0.60 |
| 370' | 0.95 | | | 0.51 | 0.52 | 0.53 | 0.54 | 0.55 | 0.56 | 0.57 | 0.58 | 0.59 | 0.60 |
| 420' | 0.89 | | | 0.51 | 0.52 | 0.53 | 0.54 | 0.55 | 0.56 | 0.57 | 0.58 | 0.59 | 0.60 |
| 470' | 0.84 | | | 0.51 | 0.52 | 0.53 | 0.54 | 0.55 | 0.56 | 0.57 | 0.58 | 0.59 | 0.60 |
| 520' | 0.78 | | | 0.51 | 0.52 | 0.53 | 0.54 | 0.55 | 0.56 | 0.57 | 0.58 | 0.59 | 0.60 |
| 570' | 0.73 | | | 0.51 | 0.52 | 0.53 | 0.54 | 0.55 | 0.56 | 0.57 | 0.58 | 0.59 | 0.60 |
| 620' | 0.68 | | | 0.51 | 0.52 | 0.53 | 0.54 | 0.55 | 0.56 | 0.57 | 0.58 | 0.59 | 0.60 |
| 670' | 0.62 | | | 0.51 | 0.52 | 0.53 | 0.54 | 0.55 | 0.56 | 0.57 | 0.58 | 0.59 | 0.60 |
| 720' | 0.57 | | | 0.51 | 0.52 | 0.53 | 0.54 | 0.55 | 0.56 | 0.57 | 0.58 | 0.59 | 0.60 |
| 775' | 0.50 | | | 0.51 | 0.52 | 0.53 | 0.54 | 0.55 | 0.56 | 0.57 | 0.58 | 0.59 | 0.60 |

BM 0.51
0.52
0.53

0.54
0.55
0.56
0.57
0.58
0.59
0.60

0.61
0.62
0.63
0.64
0.65
0.66
0.67
0.68
0.69
0.70

Grades with barbs

| | N | E | |
|---------------------------|-------|----------|--|
| 46 Water | 1.00 | 2.00 | SE Post 8M 2.51 All... 251 7.25 5.11 5.34 9.73 |
| 50 N | 3.41 | 2.44 | |
| 100 N | 11.21 | 2.88 | |
| 150 N | 2.23 | 2.32 | |
| 201.17 N - S.L. Hardy out | | 1.75 | |
| 206.61 N - " " out | 10.16 | | |
| | | | |
| N.L. All angles | 1.50 | 1.75 | |
| 50 N | 1.80 | 1.91 | |
| 100 N | | 2.02 | |
| 150 N | | 2.27 | |
| 201.17 N - " " | | 2.40 | |
| 151.61 | | 2.55 | |
| 301.62 | | 2.70 out | |
| 302.66 = S.L. Hardy out | | 2.75 | |

| E | 1.00 | 3.44 | 7.88 | 2.22 | 1.75 |
|---|------|------|------|------|------|
| | 5.6 | 5.6 | 6.3 | 6.0 | 7.3 |
| | 4.3 | 2.7 | 1.5 | 1.6 | |

| N | 1.00 | 3.41 | 7.88 | 2.22 | 1.60 |
|---|------|------|------|------|------|
| | 5.1 | 5.1 | 7.3 | 6.8 | 7.5 |
| | 4.2 | 2.2 | 1.8 | 1.9 | |

| E | 1.25 | 1.91 | 2.07 | 2.27 | 2.40 | 2.55 | 2.75 |
|---|------|------|------|------|------|------|------|
| | 7.3 | 7.3 | 7.0 | 8.0 | 6.7 | 1.1 | 1.6 |
| | | 10.2 | 2.1 | 2.5 | 7.8 | 0.1 | 10.8 |

| N | 1.50 | 1.20 |
|---|------|------|
| | 7.1 | |

Culvert No 8

N Atlantic & Sutherland E Corbin

101' of 7 1/2" Conc Pipe
 BM 590
 11.25
 4.27
 +7.98

0+0 = 13' N of N Atlantic
 50'S
 101'S = End - 13'S of S Atlantic

-2.50
 -4.00
 -4.50

12.65
 12.65
 +5.97

7-22

Culvert No 6

N Atlantic & Clayton

760' of 24" Conc Pipe
 BM 592
 10.85
 12.85
 15.79
 +5.79

N Atlantic
 375' = S Atlantic Bch.
 76'S

+0.30
 -1.00
 -1.50

17.6
 17.6
 17.6
 17.6
 17.6
 17.6
 17.6
 17.6

Culvert No 4

80' - 18" Conc Pipe

BM 771 Atlantic
 5.77
 13.50

0+0 = 12' N of E L. Handley
 40' N
 80' N

0.40
 4.20
 5.00

13.10
 13.10
 13.10
 13.10
 13.10
 13.10
 13.10

Culvert No 5

8.5' S of N Atlantic 266-18" Conc Pipe

0+0 = N Ch. Clayton
 + Culvert No 6
 50' E
 100' E
 150' E
 200' E
 250' E
 300' E = Carb. Lat

2.50
 2.82
 3.14
 3.46
 3.78
 4.10
 4.20

2.15
 +2.88
 7.12
 6.83
 +2.50
 7.51
 7.10
 +3.22
 6.22
 6.27
 +4.00
 7.12
 6.86
 +3.24
 6.22
 6.27
 +4.00
 7.12
 6.86
 +3.24
 6.22
 6.27
 +4.00
 7.12
 6.86
 +3.24
 6.22
 6.27
 +4.00
 7.12
 6.86
 +3.24

BM 589 Atlantic
 3.15
 3.77
 BM 587 Atlantic
 Clayton

Culvert No 7

16" - 18" Conc Pipe

0.00
 0.50

10.45
 +5.38
 12.15
 +5.37

Culvert No 10

65' - 14" Conc Pipe

N Atlantic & Goodwin N.L.S.

0+0 = N End Pipe
 37.65
 65'S = End Pipe

-3.40
 -3.20
 -3.00

12.63
 15.94
 13.23
 14.37

Colvert 1933

West Atlantic - Bondini - Kertz St.

Staked on Atlantic of Bondini

Type B 24 x 1 1/2

| | | | |
|------------------------------|-------|------|------|
| 0+0 - 13 S of S Atlantic | -1.86 | 2.34 | 2.34 |
| 50.5 N - 2 Atlantic | -1.81 | 1.81 | 1.81 |
| 84.5 N - 190 S of S Atlantic | -1.73 | 1.73 | 1.73 |
| 50 W | -1.65 | 1.65 | 1.65 |
| 100 W | -1.58 | 1.58 | 1.58 |
| 155 W - Clean Out | -1.50 | 1.50 | 1.50 |
| 200 W | -1.43 | 1.43 | 1.43 |
| 250 W | -1.36 | 1.36 | 1.36 |
| 300 W - E of Bondini | -1.27 | 1.27 | 1.27 |
| 40 W - 2 | -1.21 | 1.21 | 1.21 |
| 80 W - 11 1/2 | -1.15 | 1.15 | 1.15 |
| 50 W | -1.08 | 1.08 | 1.08 |
| 100 W | -1.00 | 1.00 | 1.00 |
| 145 W - Clean Out | -0.94 | 0.94 | 0.94 |
| 200 W | -0.85 | 0.85 | 0.85 |
| 250 W | -0.78 | 0.78 | 0.78 |
| 300 W - E of Bondini | -0.70 | 0.70 | 0.70 |
| 40 W - 2 | -0.64 | 0.64 | 0.64 |
| 80 W - 11 1/2 | -0.58 | 0.58 | 0.58 |
| 50 W | -0.52 | 0.52 | 0.52 |
| 100 W | -0.43 | 0.43 | 0.43 |
| 150 W - Clean Out | -0.35 | 0.35 | 0.35 |
| 200 W | -0.28 | 0.28 | 0.28 |
| 250 W | -0.21 | 0.21 | 0.21 |
| 305 W - 5 W of Bondini | -0.13 | 0.13 | 0.13 |
| 350 W - 11 S of Bondini | -0.06 | 0.06 | 0.06 |

| | | | |
|-------------------------|-------|------|------|
| 50 W | -2.99 | 2.99 | 2.99 |
| 100 W | -2.91 | 2.91 | 2.91 |
| 120 W - Clean Out | -2.87 | 2.87 | 2.87 |
| 150 W | -2.84 | 2.84 | 2.84 |
| 200 W | -2.76 | 2.76 | 2.76 |
| 250 W | -2.69 | 2.69 | 2.69 |
| 300 W - 11 S of Bondini | -2.64 | 2.64 | 2.64 |
| 110 W | -2.59 | 2.59 | 2.59 |
| 300 W - 11 S of Bondini | -2.54 | 2.54 | 2.54 |
| 50 W | -2.45 | 2.45 | 2.45 |
| 100 W | -2.37 | 2.37 | 2.37 |
| 160 W - Clean Out | -2.30 | 2.30 | 2.30 |
| 190 W | -2.21 | 2.21 | 2.21 |
| 240 W | -2.13 | 2.13 | 2.13 |
| 290 W - E of Bondini | -2.04 | 2.04 | 2.04 |
| 40 W - 2 | -1.98 | 1.98 | 1.98 |
| 80 W - 11 1/2 | -1.91 | 1.91 | 1.91 |
| 50 W | -1.82 | 1.82 | 1.82 |
| 100 W | -1.74 | 1.74 | 1.74 |
| 150 W - Clean Out | -1.65 | 1.65 | 1.65 |
| 200 W | -1.57 | 1.57 | 1.57 |
| 250 W | -1.48 | 1.48 | 1.48 |
| 300 W | -1.40 | 1.40 | 1.40 |

6-15-37

Colvert No. 1
10 Horosky St.

115' W of E.L. of Horosky
988 of 36' Reinforced Concrete Pipe

1078
2.62
BM 38.76
4.40

| | | | |
|----------------------------------|-------|------------------------|-------------------------------|
| 0+0 = H.C. California St | 47.00 | 6.39 11.65 6.26 | 2440.00 2451.63 2457.89 |
| 50.5 | 44.18 | 9.88 12.03 2.15 | 2467.77 2479.80 2481.95 |
| 100.5 | 41.36 | 49.87 | 2531.82 2581.69 |
| 150.5 | 38.54 | 17.14 12.16 5.00 | 2608.86 2621.02 2626.02 |
| 200.5 | 35.72 | 25.47 | 2651.49 2676.96 |
| 250.5 X | 32.90 | 19.73 6.83 | 2701.22 2718.05 |
| 300.5 | 30.08 | 27.27 | 2745.32 2772.59 |
| 350.5 | 27.26 | 13.56 10.34 3.22 | 2806.15 2816.49 2819.71 |
| 400.5 Brk | 24.44 | 11.34 10.35 1.00 | 2830.75 2841.10 2842.10 |
| 450.5 | 21.62 | 17.99 5.63 | 2859.09 2864.72 |
| 500.5 | 18.80 | 15.90 | 2880.62 2896.52 |
| 550.5 | 16.50 | 12.21 4.29 | 2908.73 2913.02 |
| 600.5 | 15.95 | 15.14 7.19 | 2928.16 2935.35 |
| 650.5 Brk | 14.89 | 12.21 2.68 | 2947.57 2950.25 |
| 700.5 | 12.83 | 15.86 2.95 | 2966.11 2969.06 |
| 750.5 | 11.87 | 17.64 1.77 | 2986.70 2988.47 |
| 800.5 | 9.71 | 18.28 6.67 | 3006.75 3013.42 |
| 850.5 | 8.75 | 9.26 0.51 | 3022.71 3023.22 |
| 900.5 | 6.59 | 18.83 12.24 | 3042.05 3054.29 |
| 950.5 | 5.03 | 13.94 8.91 | 3068.23 3077.20 |
| 973.5 | 2.47 | 14.41 | 3091.61 |
| 988.5 = 15' S of E.L. of Horosky | 0.00 | 14.41 | 3106.02 |

Colvert No. 2
Horosky + Kartz

10
7-19-37

N.L. of Kartz

| | | | |
|------------------|-------|-----------------------|--------------------------------|
| N End of Colvert | 19.00 | 2.71 6.65 +4.37 | 811.3876 818.037 822.407 |
| E " " " | 17.50 | | 827.907 832.277 836.647 |

Colvert No. 3
Horosky + Kartz on S.W. of Kartz

| | | | |
|------------------|-------|----------------|--|
| N End of Colvert | 17.00 | 11.74 15.91 | |
| E " " " | 15.20 | | |

Grades Harasthy
California to Atlantic

Curb Grades

| | N | E | STP Harasthy + Atlantic |
|--------------------|----------------|----------------|----------------------------------|
| N Atlantic | 10.00 | 10.50 | 10.70 19.80 18.70 18.50 |
| 50N | 12.00 | 12.18 | 17.46 26.46 26.26 |
| 100N | 14.00 | 14.34 | 38.49 38.29 |
| 150N | 16.00 | 16.25 | 48.20 48.54 48.27 |
| 200N | 18.00 | 18.17 | 67.17 56.08 |
| 250N | 20.00 | 20.09 | |
| 300N - St. Kurky | 22.00 | 22.00 | |
| | | | 55.08 3.57 31.52 56.51 |
| N Kurky | 22.50 | 22.50 | Harasthy + Curb 56.51 |
| 50N | 25.27 | 25.27 | |
| 100N | 29.25 | 29.25 | |
| 150N | 32.66 | 32.66 | |
| 200N - St. Hancock | 36.00 | 36.00 | |
| N Hancock | 38.00 | 38.00 | |
| 50N | 41.31 41.28 | 44.13 44.13 | |
| 100N | 44.63 44.56 | 46.66 44.87 | |
| 150N | 48.94 47.85 | 50.39 48.30 | |
| 160N - St. Calhoun | 51.00 | 49.00 | 51.20 |
| 178N - " " " " | 51.00 | 50.00 | 51.20 |

Change
to Harasthy
Curb at Calhoun

| | | | | | | | | |
|---|-------|-------|-------|-------|-------|-------|-------|-------|
| F | 10.50 | 12.18 | 14.34 | 16.25 | 18.17 | 20.09 | 22.00 | 22.50 |
| | 9.0 | 7.1 | 5.8 | 3.3 | 2.0 | 1.1 | 0.9 | 0.7 |
| | 8.7 | 6.6 | 5.1 | 2.7 | 1.9 | 1.0 | 0.9 | 0.7 |
| | 10.3 | 8.5 | 7.1 | 5.0 | 3.9 | 2.6 | 2.1 | 1.9 |
| N | 10.00 | 12.00 | 14.00 | 16.00 | 18.00 | 20.00 | 22.00 | |
| | 9.5 | 7.5 | 6.2 | 4.5 | 3.5 | 2.3 | 1.9 | |
| | 9.3 | 7.2 | 5.9 | 4.1 | 3.2 | 2.0 | 1.6 | |
| | 10.6 | 8.7 | 7.3 | 5.4 | 4.3 | 2.8 | 2.2 | |
| F | 22.50 | 25.27 | 29.25 | 32.66 | 36.00 | | | |
| | 2.7 | 1.8 | 1.5 | 1.1 | 0.7 | | | |
| | 2.6 | 1.7 | 1.4 | 1.0 | 0.6 | | | |
| | 3.3 | 2.0 | 1.6 | 1.1 | 0.7 | | | |
| N | 22.50 | 25.27 | 29.25 | 32.66 | 36.00 | | | |
| | 2.7 | 1.8 | 1.5 | 1.1 | 0.7 | | | |
| | 2.6 | 1.7 | 1.4 | 1.0 | 0.6 | | | |
| | 3.3 | 2.0 | 1.6 | 1.1 | 0.7 | | | |
| F | 38.00 | 44.13 | 46.66 | 50.39 | 51.20 | | | |
| | 11.9 | 7.5 | 6.0 | 4.4 | 3.0 | | | |
| | 11.7 | 7.2 | 5.8 | 4.3 | 2.9 | | | |
| | 12.8 | 7.9 | 6.5 | 4.9 | 3.5 | | | |
| | 41.20 | 47.85 | 49.80 | 51.20 | 51.20 | | | |
| N | 38.00 | 44.13 | 46.66 | 50.39 | 51.20 | | | |
| | 11.9 | 7.5 | 6.0 | 4.4 | 3.0 | | | |
| | 11.7 | 7.2 | 5.8 | 4.3 | 2.9 | | | |
| | 12.8 | 7.9 | 6.5 | 4.9 | 3.5 | | | |

6-17-27

Sewer Construction Hancock St
 N Side Harastby 340 E

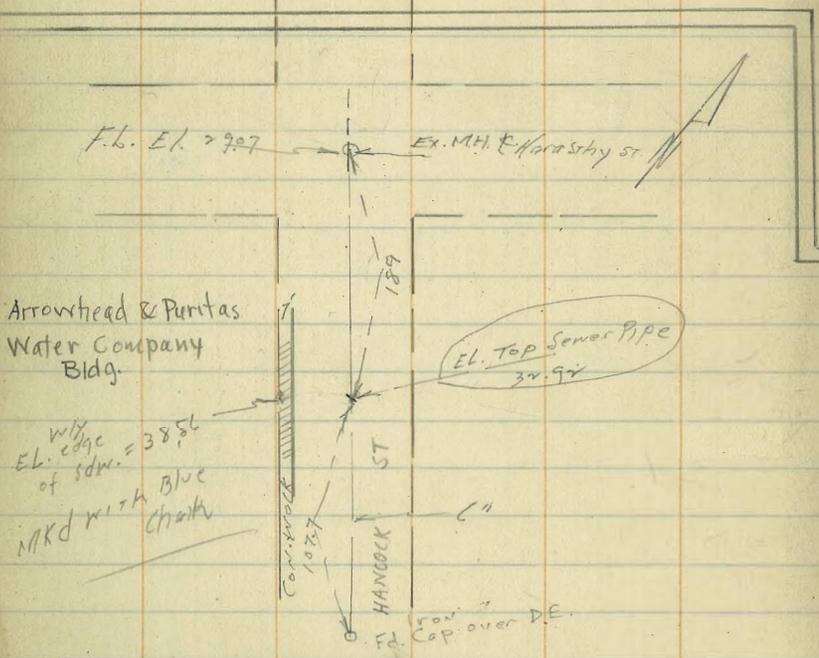
7827

Sewer Construction Mainline
 N of Witherby Across of Atlantic

Indexed

| | | | |
|--------------------------|-------|-------|--------|
| 0+0 - N. Harastby | 28.60 | 12.12 | 577.41 |
| 10 E - S. Harastby, M.H. | 29.00 | 11.59 | 578.26 |
| 50 E of M.H. | 29.91 | 10.88 | 579.97 |
| 100 E | 30.82 | 10.21 | 581.69 |
| 150 E | 31.75 | 9.54 | 583.41 |
| 200 E | 32.66 | 8.87 | 585.13 |
| 250 E | 33.58 | 8.20 | 586.85 |
| 300 E - 2nd St | 34.50 | 7.53 | 588.57 |

| | | |
|--------------|-------|--------|
| 0+0 - | 12.12 | 577.41 |
| 100 E | 11.59 | 578.26 |
| 50 E of M.H. | 10.88 | 579.97 |
| 100 E | 10.21 | 581.69 |
| 150 E | 9.54 | 583.41 |
| 200 E | 8.87 | 585.13 |
| 250 E | 8.20 | 586.85 |
| 300 E | 7.53 | 588.57 |



Arrowhead & Puritas
 Water Company
 Bldg.

W/ edge
 El. edge
 of sdw. = 38.56
 MK'd with blue
 chalk

El. Top Sewer Pipe
 37.94

B.M. 47

| | | | | |
|--------------------------------|------------|-------|-------|--------------------|
| 0+0 W End | Ground -21 | -2.00 | 739 | 739 |
| 105 E | | -2.25 | 736 | 736 |
| 50 E End | Ground -25 | -2.50 | 733 | 733 |
| | | | 730 | 730 |
| | | | 657.7 | 2-28-44 |
| SEBP | 3.80 | 53.58 | 49.78 | NEWMAN CHAMBERS |
| T.D. | 1.74 | 48.87 | 6.45 | 47.13 |
| T.P. | 4.83 | 44.35 | 9.35 | 39.52 |
| EL. M.H. E Harastby Hancock | | 15.28 | | 29.07 |
| 189' S/W from M.H. | | 11.43 | | 37.94 TOP 6" Sewer |
| edge sdw. opposite | | 5.79 | | 38.56 |
| Proposed New Lateral | | | | |

Sewer Construction Hancock St
N Line Harastby 300 E

7.8.37

| | | | |
|-------------------------|----------------|------------------------|----------------------------------|
| 0+0 - N.L. Harastby | 28.60 28.47 | 1313 28.791 | 517.916 Hancock N Harastby |
| 10 E - S Harastby, M.H. | 29.00 29.80 | 1154 5.68 28.791 | |
| 50 E of M.H. | 29.91 31.65 | 1035 28.791 | |
| 100 E | 30.80 32.33 | 1031 28.697 | |
| 150 E | 31.75 32.99 | 955 28.661 | |
| 200 E | 32.64 33.26 | 888 28.657 | |
| 250 E | 33.53 34.32 | 824 28.637 | |
| 300 E - 2nd End | 34.56 35.30 | 754 28.615 | |

Sewer Construction Mainline
N of Witherby Across N Atlantic

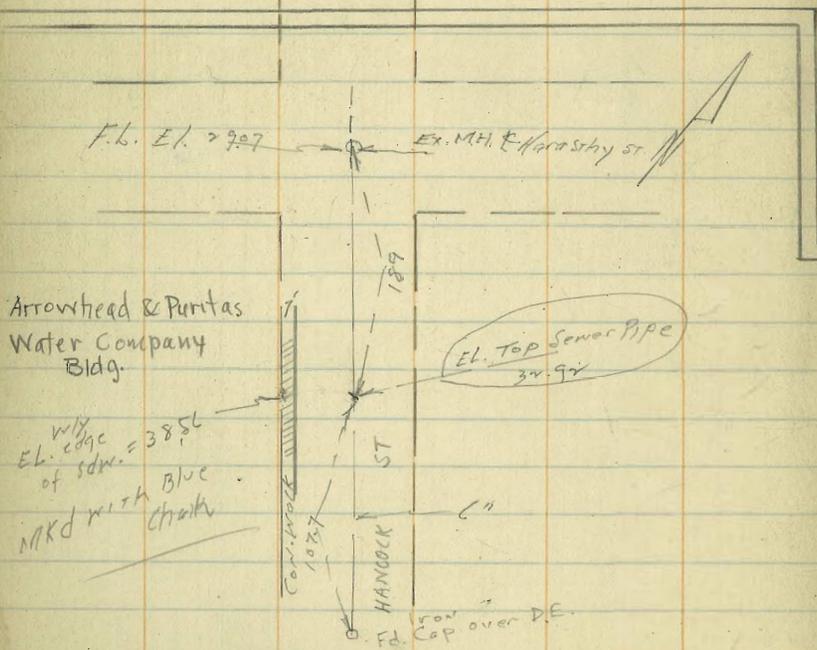
Indexed
C.S.N.

12

| | | | |
|----------------------------|----------------|-------------------------|--------|
| 0+0 - End N of N Atlantic | -3.25 | 817 28.620 28.797 | 415.41 |
| 182.5 | -3.29 | 826 28.797 | |
| 962.5 - N.H. S of Atlantic | -3.33 -3.81 | 828 28.797 | |
| 50.5 S of M.H. | -3.81 | 828 28.797 | |
| 100.5 S of M.H. - End | -3.27 | 821 28.797 | |

Drain Witherby & N Atlantic

| | | | |
|--|--------------|-------|---------------------|
| B.M. | 4.73 | 5.21 | 0.48 |
| 000 E End | Ground - 6.1 | -6.00 | 731 639 +0.86 |
| 105 E | | -6.25 | 736 651 +0.85 |
| 91 E End | Ground - 2.5 | -2.50 | 761 634 +1.27 |
| C.S.N. 2-28-44 Returned Chalmers | | | |
| S.B.P. | 3.80 | 53.58 | 49.78 |
| T.P. | 1.74 | 48.87 | 47.13 |
| T.P. | 4.83 | 44.35 | 39.52 |
| Harastby | | | |
| E.L. M.H. & Hancock | 15.38 | | 29.07 |
| 189' Sly front M.H. | 11.43 | | 37.94 Top 6" Sewer |
| edge sdw. opposite | 5.79 | | 38.56 |
| Proposed New Lateral | | | |



Street Construction West Atlantic St.
From Mainline West of Mitberby to Harastby St.

523
4.077

| Station | Elevation | Notes | Grade | BM | BM Elevation | BM Description | BM Elevation | BM Description |
|-----------------------------|-----------|-------------------|--------------|-----|--------------|----------------|--------------|----------------|
| 0+0 = Dnd End | -1.20 | | | 666 | 10.00 | | | |
| 50 F | -1.50 | | | 691 | 10.03 | | | |
| 100 F | -1.80 | | | 722 | 10.03 | | | |
| 150 F | -2.10 | | | 756 | 10.03 | | | |
| 200 F | -2.40 | | | 788 | 10.03 | | | |
| 250 F | -2.70 | 338 F = Arg. Pipe | Grade - 3.00 | 812 | 10.03 | | | |
| 300 | -3.00 | | Grade - 3.10 | 846 | 10.03 | | | |
| 350 F = 2 Man Hole Mainline | -3.33 | | | 875 | 10.03 | | | |
| 417.5 = 2 M.H. | -3.04 | | | 916 | 10.03 | | | |
| 50 F of M.H. | -2.98 | | | 930 | 10.03 | | | |
| 100 F | -2.92 | | | 935 | 10.03 | | | |
| 150 F | -2.86 | | | 944 | 10.03 | | | |
| 200 F | -2.80 | | | 946 | 10.03 | | | |
| 250 F | -2.74 | | | 946 | 10.03 | | | |
| 300 F | -2.68 | | | 946 | 10.03 | | | |
| 342.1 F = M.H. | -2.63 | | | 946 | 10.03 | | | |
| 50 F | -2.57 | | | 946 | 10.03 | | | |
| 100 F | -2.51 | | | 946 | 10.03 | | | |
| 150 F | -2.45 | | | 946 | 10.03 | | | |
| 200 F | -2.39 | | | 946 | 10.03 | | | |
| 250 F | -2.33 | | | 946 | 10.03 | | | |
| 300 F | -2.27 | | | 946 | 10.03 | | | |
| 345 F = M.H. & Cuts S | -2.22 | | | 946 | 10.03 | | | |
| 50 F | -2.16 | | | 946 | 10.03 | | | |
| 100 F | -2.10 | | | 946 | 10.03 | | | |
| 150 F | -2.04 | | | 946 | 10.03 | | | |
| 200 F | -1.98 | | | 946 | 10.03 | | | |
| 250 F | -1.92 | | | 946 | 10.03 | | | |
| 300 F | -1.86 | | | 946 | 10.03 | | | |
| 350 F | -1.80 | | | 946 | 10.03 | | | |
| 380 F = M.H. & Bordini St. | -1.76 | | | 946 | 10.03 | | | |
| 50 F | -1.70 | | | 946 | 10.03 | | | |
| 100 F | -1.64 | | | 946 | 10.03 | | | |
| 150 F | -1.58 | | | 946 | 10.03 | | | |
| 200 F | -1.52 | | | 946 | 10.03 | | | |
| 250 F | -1.46 | | | 946 | 10.03 | | | |
| 300 F | -1.40 | | | 946 | 10.03 | | | |
| 350 F | -1.34 | | | 946 | 10.03 | | | |
| 380 F = M.H. & Wright | -1.31 | | | 946 | 10.03 | | | |
| 50 F | -1.25 | | | 946 | 10.03 | | | |
| 100 F | -1.19 | | | 946 | 10.03 | | | |
| 150 F | -1.13 | | | 946 | 10.03 | | | |
| 200 F | -1.07 | | | 946 | 10.03 | | | |
| 250 F | -1.01 | | | 946 | 10.03 | | | |
| 300 F | -0.94 | | | 946 | 10.03 | | | |
| 350 F | -0.88 | | | 946 | 10.03 | | | |
| 380 F = M.H. & Eschodillo | -0.85 | | | 946 | 10.03 | | | |
| 50 F | -0.79 | | | 946 | 10.03 | | | |
| 100 F | -0.73 | | | 946 | 10.03 | | | |
| 150 F | -0.67 | | | 946 | 10.03 | | | |

Grades 56th St.
El Capito Meade Ave.

15
6927

Curb Grades

13963
687
3742377
1st St. to 4th St.
Meade + 5th St.

| Grade | WL | EL | Notes | 13963 | 687 | 3742377 | 1st St. to 4th St. | Meade + 5th St. | | | | | | | |
|--------------------------|--------|--------|---|--------|--------|---------|--------------------|-----------------|-------|-------|-------|-------|-------|-------|-------|
| 52 Meade Ave | 422.50 | 422.00 | NEMO El Capito 11.85 137.33 432.87 3.85 436.72 12.96 464.97 487.63 | 422.00 | 422.50 | 77.28 | 78.06 | 78.84 | 79.62 | 80.40 | 81.18 | 81.96 | 82.74 | 83.52 | 84.30 |
| 54 Meade Ave | 422.00 | 422.50 | | | | | | | | | | | | | |
| 56th | 422.28 | 422.78 | | 422.50 | 422.00 | 77.28 | 78.06 | 78.84 | 79.62 | 80.40 | 81.18 | 81.96 | 82.74 | 83.52 | 84.30 |
| 100th | 422.56 | 423.06 | | | | | | | | | | | | | |
| 150th | 422.84 | 423.34 | | | | | | | | | | | | | |
| 200th | 423.12 | 423.62 | | | | | | | | | | | | | |
| 250th | 423.39 | 423.89 | | | | | | | | | | | | | |
| 270th - St. Adelaide | 423.50 | 424.00 | | | | | | | | | | | | | |
| 1st St. Adelaide | 425.00 | 425.50 | | 425.50 | 425.00 | 77.28 | 78.06 | 78.84 | 79.62 | 80.40 | 81.18 | 81.96 | 82.74 | 83.52 | 84.30 |
| 50th | 427.16 | 427.74 | | | | | | | | | | | | | |
| 100th | 429.31 | 429.93 | | 429.00 | 429.11 | 77.28 | 78.06 | 78.84 | 79.62 | 80.40 | 81.18 | 81.96 | 82.74 | 83.52 | 84.30 |
| 150th | 431.47 | 432.14 | | | | | | | | | | | | | |
| 200th | 433.62 | 434.36 | | | | | | | | | | | | | |
| 222.63th - St. El Capito | 434.60 | 00' | | | | | | | | | | | | | |
| 230.25th - St. El Capito | | 435.70 | | | | | | | | | | | | | |

429.63
6.42
3742377
1st St. to 4th St.
Adelaide + 5th St.

434.32
2.88
3742377
1st St. to 4th St.
El Capito + 5th St.

Grades Adelaide H.C.
51.15 to 58.75

16
6/20/27

Curb Grades

| Grade | Station | Grade | Station | Grade | Station | Grade | Station | Grade | Station | Grade | Station | Grade | Station |
|-------|---------------------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|
| 42.50 | 11.56 | 42.50 | 15.1 | 42.50 | 31.43 | 42.50 | 31.43 | 42.50 | 31.43 | 42.50 | 31.43 | 42.50 | 31.43 |
| 38.43 | 50.1 | 38.43 | 27.17 | 38.43 | 27.17 | 38.43 | 27.17 | 38.43 | 27.17 | 38.43 | 27.17 | 38.43 | 27.17 |
| 31.37 | 100.1 | 31.37 | 30.37 | 31.37 | 30.37 | 31.37 | 30.37 | 31.37 | 30.37 | 31.37 | 30.37 | 31.37 | 30.37 |
| 34.30 | 150.1 | 34.30 | 33.30 | 34.30 | 33.30 | 34.30 | 33.30 | 34.30 | 33.30 | 34.30 | 33.30 | 34.30 | 33.30 |
| 37.24 | 200.1 | 37.24 | 36.24 | 37.24 | 36.24 | 37.24 | 36.24 | 37.24 | 36.24 | 37.24 | 36.24 | 37.24 | 36.24 |
| 40.17 | 250.1 | 40.17 | 39.17 | 40.17 | 39.17 | 40.17 | 39.17 | 40.17 | 39.17 | 40.17 | 39.17 | 40.17 | 39.17 |
| 43.11 | 300.1 | 43.11 | 42.11 | 43.11 | 42.11 | 43.11 | 42.11 | 43.11 | 42.11 | 43.11 | 42.11 | 43.11 | 42.11 |
| 46.04 | 350.1 | 46.04 | 45.04 | 46.04 | 45.04 | 46.04 | 45.04 | 46.04 | 45.04 | 46.04 | 45.04 | 46.04 | 45.04 |
| 48.98 | 400.1 | 48.98 | 47.98 | 48.98 | 47.98 | 48.98 | 47.98 | 48.98 | 47.98 | 48.98 | 47.98 | 48.98 | 47.98 |
| 51.92 | 450.1 | 51.92 | 50.92 | 51.92 | 50.92 | 51.92 | 50.92 | 51.92 | 50.92 | 51.92 | 50.92 | 51.92 | 50.92 |
| 54.82 | 465.18 - P.C. | 54.82 | 45.82 | 54.82 | 45.82 | 54.82 | 45.82 | 54.82 | 45.82 | 54.82 | 45.82 | 54.82 | 45.82 |
| 54.80 | 505.48 - P.C. | 54.80 | 45.80 | 54.80 | 45.80 | 54.80 | 45.80 | 54.80 | 45.80 | 54.80 | 45.80 | 54.80 | 45.80 |
| 56.40 | 545.41 | 56.40 | 45.40 | 56.40 | 45.40 | 56.40 | 45.40 | 56.40 | 45.40 | 56.40 | 45.40 | 56.40 | 45.40 |
| 58.00 | 585.48 - N.L. 58.75 | 58.00 | 45.00 | 58.00 | 45.00 | 58.00 | 45.00 | 58.00 | 45.00 | 58.00 | 45.00 | 58.00 | 45.00 |

151.7111
Adelaide
51.15

Adelaide
+ 58.75

Adelaide
+ 58.75

N

S

N

S

N

N

N

N

N

N

N

N

N

N

N

N

N

N

N

N

N

N

N

N

Grades Meade Riv.
56th to 58th St.

17
6-9-57

| | N.L. | S.L. | 428.63 1.51 428.13 428.55 428.75 428.97 425.71 418.70 419.61 |
|------------------------|--------|--------|--|
| EL 51th St. | 422.50 | 422.00 | |
| 50E | 424.93 | 421.32 | |
| 100E | 427.37 | 426.65 | |
| 145.74 - P.V.C. | 429.60 | 428.78 | |
| 185.74 | 430.83 | 429.94 | |
| 225.74 | 430.63 | 429.72 | |
| 265.74 | 428.78 | 428.10 | |
| 305.74 - EXC. | 425.90 | 424.90 | |
| 345.74 | 422.10 | 421.13 | |
| 385.74 - P.V.C. | 418.30 | 417.35 | |
| 425.74 | 415.31 | 414.31 | |
| 465.74 - EXC. | 413.94 | 412.94 | |
| 505.74 | 413.29 | 412.29 | |
| 545.74 | 412.64 | 411.64 | |
| 585.74 - N.L. 58th St. | 412.00 | 411.00 | |

| | N | S | N | S |
|--|--------|--------|-------|-------|
| | 422.50 | 422.00 | 18.30 | 17.35 |
| | 424.93 | 421.32 | 15.31 | 12.31 |
| | 427.37 | 426.65 | 13.94 | 10.94 |
| | 429.60 | 428.78 | 13.28 | 10.28 |
| | 430.83 | 429.94 | 12.64 | 9.64 |
| | 430.63 | 429.72 | 12.00 | 9.00 |
| | 428.78 | 428.10 | 11.37 | 8.37 |
| | 425.90 | 424.90 | 10.73 | 7.73 |
| | 422.10 | 421.13 | 10.09 | 7.09 |
| | 418.30 | 417.35 | 9.45 | 6.45 |
| | 415.31 | 414.31 | 8.81 | 5.81 |
| | 413.94 | 412.94 | 8.17 | 5.17 |
| | 413.29 | 412.29 | 7.53 | 4.53 |
| | 412.64 | 411.64 | 6.89 | 3.89 |
| | 412.00 | 411.00 | 6.25 | 3.25 |

419.61
7.82
BN 416.77
41.73
NAT'L HOE CO.
Meade at 58th St.

Grades El Cajon Ave
56th St to 58th St.

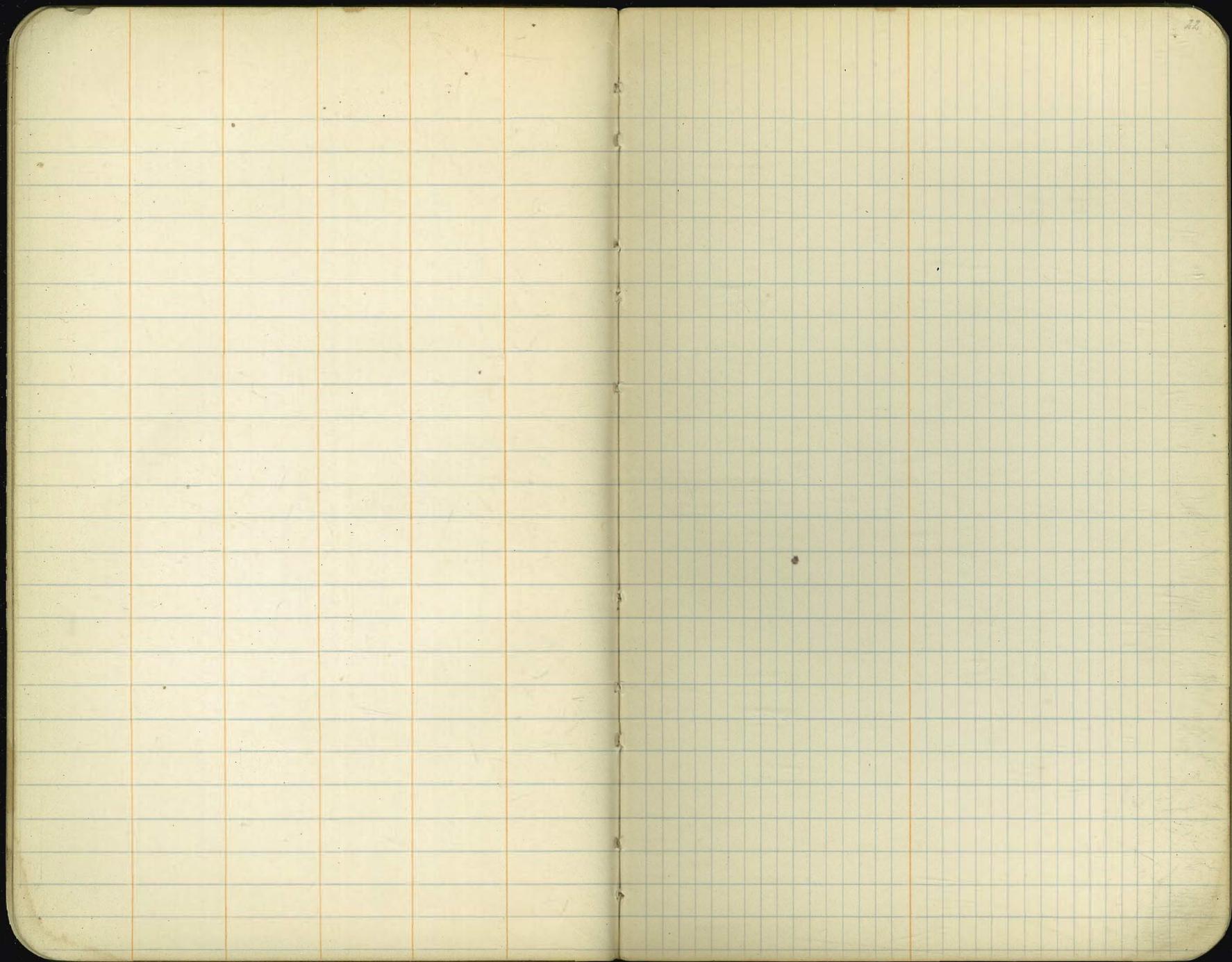
6-27-27

| Station | Elevation | Grade | Notes |
|---------------------|-----------|---------------------|--|
| 56th St | 436.70 | 8.0 8.8 -0.8 | BM 431.6 El Cajon Ave |
| 50' | 439.69 | .50 6.4 -7.1 | 13.87 444.25 6.15 |
| 100 | 442.68 | 2.0 3.2 -1.6 | 444.50 12.25 452.15 |
| 150 | 445.67 | -1.0 2.7 -1.7 | 456.85 19.45 |
| 200 | 448.66 | 8.5 3.8 -2.3 | 460.30 462.18 BM 457.8 El Cajon + El Cajon |
| 250 | 451.65 | 5.5 3.2 -1.7 | 467.15 457.15 |
| 300 | 454.64 | 2.5 2.9 -1.6 | |
| 350 | 457.63 | 11.7 2.8 -1.9 | |
| 400 | 460.62 | 8.7 2.8 -1.9 | |
| 450 | 463.61 | 5.7 1.6 -1.9 | |
| 495' = 504 | 466.60 | 3.0 2.5 -0.5 | |
| 545 | 468.90 | 0.6 0.0 | |
| 595' = H.L. 58th St | 471.00 | | |

Fire Hydrants

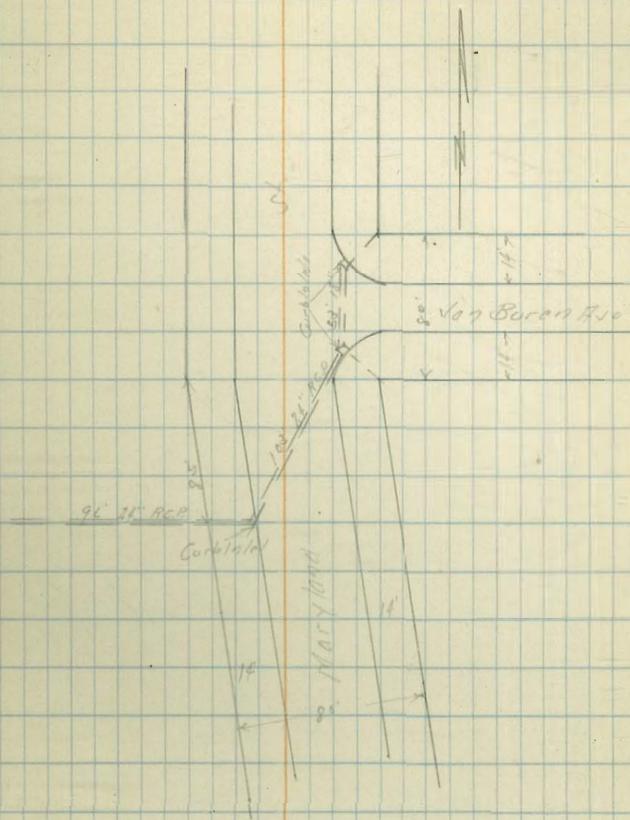
19

| Station | Elevation | Grade | Notes |
|---------------------|-----------|-----------------------|------------------------|
| El Cajon + 58th St | 475.53 | 51.6 4.64 -0.50 | BM 470.87 |
| Adelaide + 58th St | 466.59 | 97.9 9.70 | 456.80 on Bottom Flang |
| Meade Ave + 58th St | 417.25 | 61.7 6.80 | 411.08 on Bottom Flang |
| Meade Ave + 56th St | 427.10 | 4.87 3.85 -1.32 | 422.23 |
| Adelaide + 51th St | 429.05 | 4.36 2.35 -1.63 | 424.79 |
| El Cajon + 56th St | 440.82 | 5.22 5.20 | 435.60 on 30 ft Flang |



302.52
33.52
337.04
NE SP
1000
1100

| | | | | |
|---------------------------------------|--------|---------------|------------------|------------------|
| Gleb Basin NE of Maryland + Van Buren | 296.00 | 4.57 +7.86 | 341.33 348.87 | 1100 Maryland |
| 265.5 | 270.00 | 1.57 +2.13 | 332.54 334.71 | |
| 577.5 - Gleb Basin SEC | 294.00 | 1.57 +4.72 | 307.41 312.13 | |
| 92.68' SW | 292.00 | 1.57 +4.72 | 307.41 312.13 | |
| 127.61 SW | 292.00 | 1.57 +4.72 | 307.41 312.13 | |
| 162.55' W Carbide rd side Maryland | 291.00 | 1.57 +4.72 | 307.41 312.13 | |
| 174 W - Creek rd Maryland | 288.00 | 1.57 +4.72 | 307.41 312.13 | |
| 188 W | 279.65 | 1.57 +4.72 | 307.41 312.13 | |
| 202 W | 270.50 | 1.57 +4.72 | 307.41 312.13 | |
| 216 W | 261.75 | 1.57 +4.72 | 307.41 312.13 | |
| 238 W - E of Anchor | 253.00 | 1.57 +4.72 | 307.41 312.13 | |
| 244 W - E face of Head Wall | 250.00 | 1.57 +4.72 | 307.41 312.13 | |



Septer Construction 58th St
Monte Mar Vista

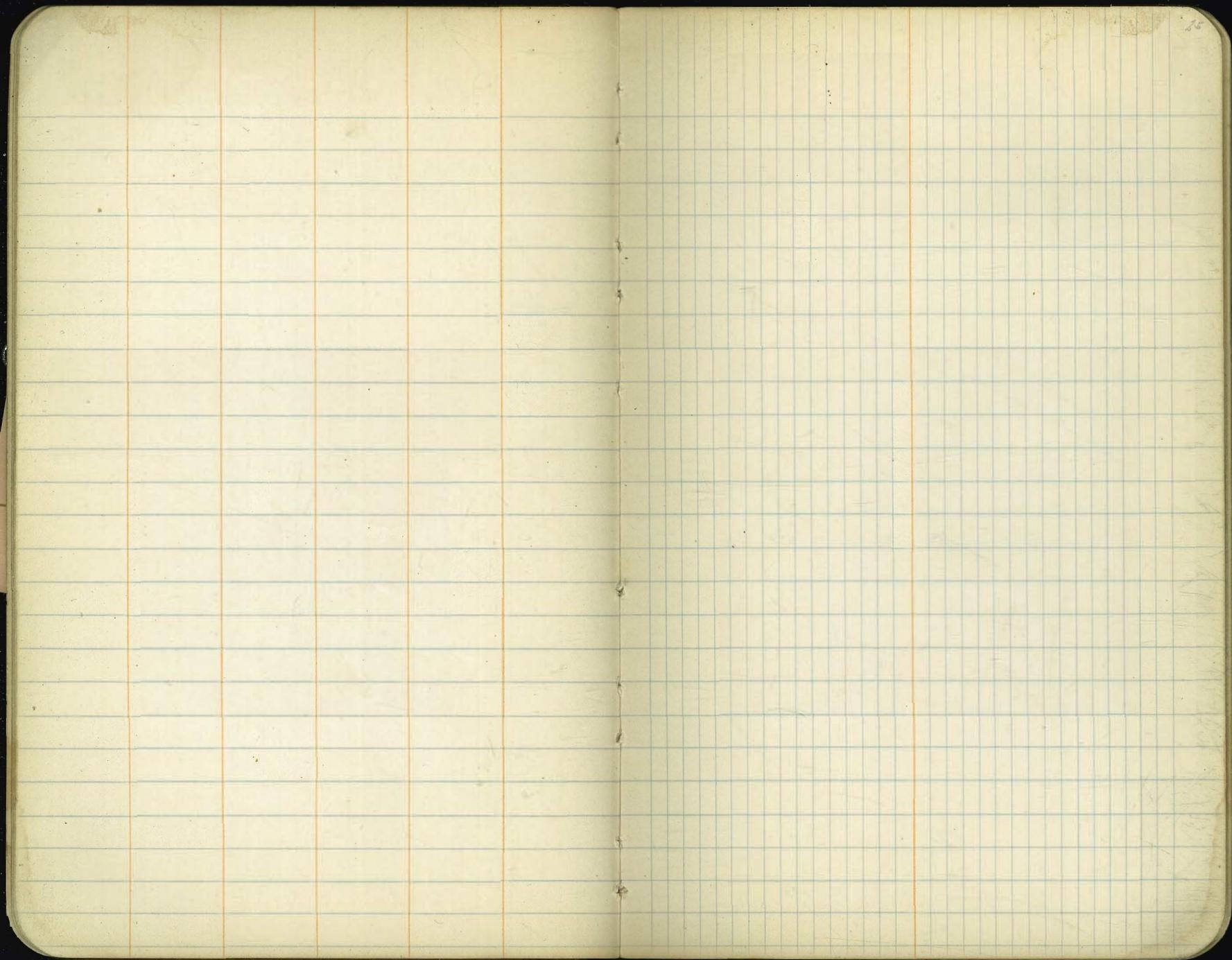
6-29-27

| | | | UT T. H. E |
|-------------------------------|--------|---------|------------|
| MH N 5 of Neade Ave 58th St | 400.00 | 3041.84 | Neade Ave |
| 50' N | 391.28 | 1711 | |
| 100' N | 392.56 | 537 | |
| 150' N | 388.84 | 48.63 | |
| 200' N | 385.12 | 880 | |
| 250' N - End of Settling Tank | 381.40 | 216 | |
| | | 1091 | |
| | | 32280 | |
| | | 584 | |
| | | 38692 | 00 |
| | | | 24 |
| | | | 377 |

Septer Construction
Neade Ave 58th St
Monte Mar Vista

8-2-27

| | |
|----------------------------|--------|
| MH N 5 of Neade 58th St | 400.00 |
| 50' N of MH | |
| 100' N | |
| 150' N | |
| 200' N | |
| 250' N | |
| 300' N | |
| 325' N - DMH N 4 | 407.00 |
| 6-29-27 | 415.00 |
| 511' N | |
| 103.32' N | |
| 154.98' N | |
| 201.15' N | |
| 258.31 | |
| 310.00 - MH N 3 of 58th St | 417.00 |



Senior Construction Alley Block 1 Monte Mar Vista
56th to 58th St

8-2-27

| Area | Value | 1911 | 1922 | 1931 |
|-----------------------|--------|------------------------|------------------|-----------------|
| MH N° 1 - 56th St | 424.00 | 1911 12.50 -7.50 | 8743111 11.50 | FIG 102 1.50 |
| 50' E | 421.91 | 11.50 -7.50 | 442.36 | |
| 100' E | 429.85 | 10.24 -7.50 | 442.90 -7.50 | |
| 150' E | 432.77 | 12.34 -7.50 | 452.79 -7.50 | |
| 200' E | 435.70 | 14.34 -7.50 | 462.74 -7.50 | |
| 250' E | 438.62 | 16.03 -7.50 | 472.73 -7.50 | |
| 300.58 - MH N° 2 | 441.00 | 18.65 -7.50 | 482.72 | |
| 50' E of MH | 443.88 | 19.87 -7.50 | 492.71 | |
| 100' E | 446.76 | 21.80 -7.50 | 502.70 | |
| 150' E | 449.64 | 23.76 -7.50 | 512.69 | |
| 200' E | 452.52 | 25.70 -7.50 | 522.68 | |
| 250' E | 455.40 | 27.64 -7.50 | 532.67 | |
| 300' E - DE - 56th St | 458.00 | 29.56 -7.50 | 542.66 | |

Senior Construction Alley Block 2
Monte Mar Vista
56th to 58th St

8-3-27

| Area | Value | 1912 | 1922 | 1931 |
|-------------------|--------|------------------------|------------------|-----------------|
| MH N° 2 - 56th St | 418.00 | 1812 12.25 -7.50 | 8743111 11.50 | FIG 102 1.50 |
| 50' E | 420.10 | 15.52 -7.50 | 442.36 | |
| 100' E | 423.20 | 17.97 -7.50 | 442.90 -7.50 | |
| 150' E | 426.80 | 20.97 -7.50 | 452.79 -7.50 | |
| 200' E | 430.10 | 23.77 -7.50 | 462.74 -7.50 | |
| 231.25 - MH N° 1 | 430.00 | 26.28 -7.50 | 472.73 | |
| 50' E of MH | 430.44 | 28.28 -7.50 | 482.72 | |
| 100' E | 430.88 | 30.28 -7.50 | 492.71 | |
| 150' E | 431.32 | 32.28 -7.50 | 502.70 | |
| 200' E | 431.76 | 34.28 -7.50 | 512.69 | |
| 250' E | 432.20 | 36.28 -7.50 | 522.68 | |
| 300' E | 432.64 | 38.28 -7.50 | 532.67 | |
| 340' E - DE | 433.00 | 40.28 -7.50 | 542.66 | |

581651 Water Grades
El Cajon Rio

Adelaide Rio Water Grades
5814 to 581651

81
81-27

| Station | Grade | Notes |
|------------------------------|--------|-----------------------|
| 010 - English Water El Cajon | 469.00 | 581 5132 |
| 204 - S.L. El Cajon and | 468.75 | 001 |
| 635 - A | 467.43 | 684 628 -2.56 |
| 170'S | 465.68 | 850 825 25.64 |
| 170'S | 464.15 | 1516 1505 11.55 |
| 220'S - B.H. | 462.61 | 1166 7500 |
| 240 - B.H. | 461.63 | 1264 7524 |
| 292'S | 458.69 | 1558 1527 31.77 |
| 345'S - N.L. Adelaide | 455.75 | 1852 1807 45.7 |
| S.L. Adelaide | 453.75 | 890 120 772 |
| 50'S | 444.83 | 1146 1239 55.79 |
| 100'S | 436.10 | 1354 265 |
| 150'S | 427.98 | 986 134 852 |
| 200'S | 419.55 | 546 122 424 |
| 270'S - N.L. Meade | 407.75 | 1726 1234 492 |

| Station | Grade | Notes |
|-----------------------|--------|--------------------|
| E.L. 581651 | 425.00 | Adelaide + 581651 |
| 100'S | 427.46 | 844 288 |
| 200'S | 433.32 | 1104 162 942 |
| 300'S | 439.18 | 815 510 305 |
| 400'S | 445.06 | 337 234 103 |
| 455' 11" - B.H. | 452.33 | 1146 750 |
| 505' 11" - B.H. | 454.30 | 831 824 7.96 |
| 585' 4" - N.L. 581651 | 457.50 | 601 257 350 |

| Station | Grade | Notes |
|---------------------------|--------|----------------------|
| N.L. Meade Rio | 28.35 | 315 Lower of Grade |
| 90'S | 419.10 | 1231 1230 1.01 |
| 180'S | 419.70 | 1201 1201 |
| 270'S - S.L. Adelaide Rio | 420.60 | 1181 121 1060 |
| N.L. | 422.10 | 1594 1228 366 |
| 76'S | 425.90 | 1264 279 985 |
| 152'S | 428.70 | 936 634 302 |
| 228'S - S.L. El Cajon | 432.00 | 644 375 269 |

581451 Water Grades
El Cajon Ave

Adelaide Ave Water Grades
504 to 581451

81
8-2-25

| Station | Grade | Notes |
|-------------------------|--------|---------------|
| 020 - Exposed Water | 469.00 | 537 +1.32 |
| 204 - S.L. El Cajon out | 468.75 | out |
| 635 - A | 467.43 | 684 +1.22 |
| 170'S | 465.68 | 850 +2.54 |
| 170'S | 464.15 | 1805 +1.55 |
| 220'S - Brk | 462.11 | 1466 +5.00 |
| 240 - Brk | 461.63 | 1244 +5.50 |
| 272'S | 459.69 | 1557 +7.37 |
| 345'S - N.L. Adelaide | 455.75 | 1252 +9.65 |
| S.L. Adelaide | 453.25 | 899 +5.21 |
| 50'S | 446.83 | 1741 +5.59 |
| 100'S | 436.40 | 1356 +6.95 |
| 150'S | 427.98 | 984 +5.10 |
| 200'S | 419.55 | 545 +4.12 |
| 270'S - N.L. Meade | 409.75 | 1724 +5.21 |

| Station | Grade | Notes |
|-----------------------|--------|---------------|
| N.L. 504'S | 425.00 | 1448 +2.31 |
| 100'E | 427.44 | 844 +2.2 |
| 200'E | 433.32 | 1106 +5.52 |
| 300'E | 439.18 | 815 +5.66 |
| 400'E | 445.06 | 527 +5.29 |
| 450'LT - Brk | 452.33 | 447 +2.08 |
| 505'LT - Brk | 454.30 | 824 +5.26 |
| 585'LT - N.L. 581451 | 457.50 | 604 +5.17 |
| N.L. Meade Ave | 419.25 | 1201 +5.21 |
| 90'S | 419.40 | 1301 +5.01 |
| 180'S | 419.70 | 1376 +5.04 |
| 270'S - S.L. Adelaide | 420.60 | 1181 +5.28 |
| N.L. | 422.10 | 1591 +5.29 |
| 76'S | 425.40 | 1244 +5.21 |
| 152'S | 429.70 | 934 +3.50 |
| 218'S - S.L. El Cajon | 432.00 | 696 +3.25 |

2007

5771

2000

Adelaide
+ 58

6 Grade

3.4 Lower 2 Grade

Adelaide
+ 52.50

504'S Water Grades

315 Lower 2 Grade

Meadow Area Water Grades
5676 to 5875

| | | | | | | | | | |
|--------------|--------|-------------------------|--------|--------------------------|--------|--------------------------|--------|--------------------------|--------|
| 1-1 5674.1 | 418.80 | 13.61 13.60 +3.71 | 413.24 | 13.60 13.55 +18.96 | 413.24 | 13.60 13.55 +18.96 | 413.24 | 13.60 13.55 +18.96 | 413.24 |
| 18581 | 421.04 | | 418.28 | 2.76 +3.76 | 418.28 | 2.76 +3.76 | 418.28 | 2.76 +3.76 | 418.28 |
| 77161 | 423.28 | 2.13 +3.70 | 423.28 | 2.13 +3.70 | 423.28 | 2.13 +3.70 | 423.28 | 2.13 +3.70 | 423.28 |
| 115741 - PVC | 425.53 | | 425.53 | | 425.53 | | 425.53 | | 425.53 |
| 115741 | 426.19 | 5.71 +3.70 | 426.19 | 5.71 +3.70 | 426.19 | 5.71 +3.70 | 426.19 | 5.71 +3.70 | 426.19 |
| 225741 | 426.47 | | 426.47 | | 426.47 | | 426.47 | | 426.47 |
| 215741 | 424.85 | 2.56 +3.70 | 424.85 | 2.56 +3.70 | 424.85 | 2.56 +3.70 | 424.85 | 2.56 +3.70 | 424.85 |
| 305741 - PVC | 427.65 | | 427.65 | 10.71 +3.70 | 427.65 | 10.71 +3.70 | 427.65 | 10.71 +3.70 | 427.65 |
| 34574 | 428.85 | 10.56 +3.70 | 428.85 | 10.56 +3.70 | 428.85 | 10.56 +3.70 | 428.85 | 10.56 +3.70 | 428.85 |
| 39574 - PVC | 424.05 | | 424.05 | 6.63 +3.70 | 424.05 | 6.63 +3.70 | 424.05 | 6.63 +3.70 | 424.05 |
| 42571 | 421.81 | 2.46 +3.70 | 421.81 | 2.46 +3.70 | 421.81 | 2.46 +3.70 | 421.81 | 2.46 +3.70 | 421.81 |
| 46571 - PVC | 409.62 | | 409.62 | 11.13 +3.70 | 409.62 | 11.13 +3.70 | 409.62 | 11.13 +3.70 | 409.62 |
| 52571 | 408.58 | 12.14 +3.70 | 408.58 | 12.14 +3.70 | 408.58 | 12.14 +3.70 | 408.58 | 12.14 +3.70 | 408.58 |
| 59571 - PVC | 407.75 | | 407.75 | 18.82 +3.70 | 407.75 | 18.82 +3.70 | 407.75 | 18.82 +3.70 | 407.75 |

Meadow Area
250740
21771

6-30-37

| Station | Flow | BM | HT | HT | HT |
|---------------------------------------|--------|----------|--------|------------------|--------|
| 0+0 Sky Carb Carb of Ingraham St | 1297.0 | BM 15013 | 1297.0 | NH No 11 | 1280.0 |
| 25.54 - S.L. of " | 12822 | 15013 | 1297.0 | 50 | 1260.5 |
| 13917 | 12719 | 15013 | 1297.0 | 100 | 1241.0 |
| 112.76 - S.L. of base | 12589 | 15013 | 1297.0 | 128.4 - NH No 10 | 1220.0 |
| 13950 | 12480 | 15013 | 1297.0 | | |
| 156.31 - End of Pipe Sec. on Hill Box | 12400 | 15013 | 1297.0 | | |
| 201.36 - S.L. line of Hill | 12317 | 15013 | 1297.0 | | |
| 221.36 - S.L. Carb line of Hill | 12280 | 15013 | 1297.0 | | |

86 of 18" Reinf. Conc Pipe

| Station | Description | Value | Notes |
|---------|----------------------------|--------|--|
| 0+0 | E. of N.L. of Meams at Dr. | 171.40 | NEHS 157 +13.7 |
| 12+5 | | 167.87 | 151.14 6.73 |
| 66+5 | A.S.L. Meams at Dr. | 114.31 | 127 86.2 +27.3 |
| 86+5 | End of culvert | 112.20 | 163.63 51.43 51.43 12.60 176.85 6.45 175.77 176.84 176.11 7.67 168.38 6.25 175.43 29 Pac EC NA Meams at Dr. 246.9342 |

| S.L. | N.L. | | |
|-----------|------------------------|--------------|--------------|
| 19 And 50 | 50 W of W.L. Cuts | | |
| -1.53 | -1.53 | 866 13.24 | 866 13.24 |
| | | 34.00 | 34.00 |
| | | 71.3 | 71.3 |
| | | 1.27 | 1.27 |
| | | 2.75 | 2.75 |
| | | 4.02 | 4.02 |
| | | 7.07 | 7.07 |
| 51 And 52 | 150 W of W.L. Cuts | | |
| -1.65 | -1.65 | 878 13.60 | 878 13.60 |
| 53 And 54 | 250 W of W.L. Cuts | | |
| -1.77 | -1.77 | 882 13.77 | 882 13.77 |
| 55 And 56 | 350 W of W.L. Cuts | | |
| -1.88 | -1.88 | 891 13.88 | 891 13.88 |
| 57 | 130 W of W.L. Cuts and | | |
| -2.00 | | 893 13.96 | 893 13.96 |
| 58 | 140 W of W.L. Cuts and | | |
| -2.00 | | 893 13.96 | 893 13.96 |
| 47 And 48 | 50 E of E.L. Cuts | | |
| -1.30 | -1.30 | 843 13.72 | 843 14.05 |
| 45 And 46 | 150 E of E.L. Cuts | | |
| -1.19 | -1.19 | 846 13.57 | 846 13.79 |
| 43 And 44 | 250 E of E.L. Cuts | | |
| -1.07 | -1.07 | 844 13.70 | 844 13.32 |

| S.L. | N.L. | | |
|-----------|-------------------------|---------------|---------------|
| 41 And 41 | 50 E of E.L. Sandier | | |
| -2.85 | -2.85 | 785 13.64 | 785 13.70 |
| | | 2.23 | 2.23 |
| | | 1.27 | 1.27 |
| | | 7.50 | 7.50 |
| | | 8.31 | 8.31 |
| | | 13.31 | 13.31 |
| 40 And 39 | | | |
| -7.74 | -7.74 | 7.65 13.69 | 7.65 13.37 |
| 38 And 37 | | | |
| -7.66 | -7.66 | 7.64 13.67 | 7.64 13.61 |
| 36 And 35 | 50 E of E.L. Wright | | |
| -7.49 | -7.49 | 7.49 13.67 | 7.48 13.67 |
| 34 And 33 | | | |
| -7.37 | -7.37 | 7.37 13.57 | 7.37 13.59 |
| 32 And 31 | | | |
| -7.16 | -7.16 | 7.16 13.07 | 7.16 13.06 |
| 30 And 29 | 50 E of E.L. Fiskadillo | | |
| -7.07 | -7.07 | 7.07 13.57 | 7.07 13.60 |
| 28 And 27 | | | |
| -6.96 | -6.96 | 6.96 13.57 | 6.95 13.75 |

West Atlantic
Sawyer Laterals

| S.L. | N.L. | 253 |
|--------------------|--------------------|---------------------------|
| 26 | 25 | 50° W of H.L. Nacoll |
| 823 823 1270 | 823 823 1270 | |
| 24 | 23 | 50° E of E.L. Nacoll |
| 823 823 1270 | 823 823 1270 | |
| 22 | 21 | 150° E of E.L. Nacoll |
| 827 827 1321 | 827 827 1321 | |
| 20 | 19 | 250° E of E.L. Nacoll |
| 827 827 1321 | 827 827 1321 | |
| 18 | 17 | 50° E of E.L. Sutherland |
| 827 827 1321 | 827 827 1321 | |
| 16 | 15 | 150° E of E.L. Sutherland |
| 827 827 1321 | 827 827 1321 | |
| 14 | 13 | 250° E of E.L. Sutherland |
| 827 827 1321 | 827 827 1321 | |
| 12 | 11 | 50° E of E.L. Chrysler |
| 827 827 1321 | 827 827 1321 | |

Atlantic
Sutherland

| S.L. | N.L. |
|------|------|
| 10 | |
| 1258 | 1258 |
| 1258 | 1258 |
| 1312 | 1312 |

7

| | |
|-----|------|
| 295 | 1021 |
| | 827 |
| | 1270 |

Hancock Sawyer Laterals

| S.L. | N.L. |
|------|------|
| 6 | 5 |
| 3300 | 3300 |
| 1422 | 1422 |
| 1350 | 1350 |

4

| | |
|------|------|
| 3430 | 1325 |
| 1325 | 1325 |
| 1285 | 1285 |

| S.L. | N.L. |
|------|------|
| 8 | 7 |
| 3560 | 3560 |
| 826 | 826 |
| 826 | 826 |

59

| | |
|------|------|
| 214 | 214 |
| 1325 | 1325 |

60

| | |
|------|------|
| 128 | 128 |
| 826 | 826 |
| 1325 | 1325 |

61

| | |
|------|------|
| 128 | 128 |
| 826 | 826 |
| 1325 | 1325 |

East Atlantic Water Grades

| Station | Grade | Reading | Correction | Result |
|----------------------------|-------|---------|------------|--------|
| 0+0 - Existing Baint/H.A. | | 2.30 | +0.00 | 2.30 |
| 100F | | 2.55 | -0.05 | 2.50 |
| 200F | | 2.80 | -0.10 | 2.70 |
| 300F | | 3.05 | -0.05 | 3.00 |
| 400F | | 3.30 | -0.05 | 3.25 |
| 500F | | 3.55 | -0.05 | 3.50 |
| 600F - Brk M. Spent - 3.82 | | 3.80 | -0.02 | 3.78 |
| 700F | | 4.10 | -0.05 | 4.05 |
| 800F - E.L. Nibberby | | 4.40 | -0.05 | 4.35 |
| 100F | | 4.65 | -0.05 | 4.60 |
| 200F | | 4.90 | -0.05 | 4.85 |
| 300F | | 5.15 | -0.05 | 5.10 |
| 400F | | 5.40 | -0.05 | 5.35 |
| 115E - W.L. Coutts | 3.00 | 3.70 | -0.05 | 3.65 |
| E.L. Coutts | 3.70 | 3.90 | -0.05 | 3.85 |
| 100F | | 4.10 | -0.05 | 4.05 |
| 200F | | 4.35 | -0.05 | 4.30 |
| 300F - W.L. Bordini | 1.70 | 4.60 | -0.05 | 4.55 |
| E.L. Bordini | 1.70 | 4.85 | -0.05 | 4.80 |
| 100F | | 5.10 | -0.05 | 5.05 |
| 200F | | 5.35 | -0.05 | 5.30 |
| 300F - W.L. Wright | 2.60 | 5.60 | -0.05 | 5.55 |
| E.L. Wright | 2.80 | 5.85 | -0.05 | 5.80 |
| 100F | | 6.10 | -0.05 | 6.05 |
| 200F | | 6.35 | -0.05 | 6.30 |

| Station | Grade | Reading | Correction | Result |
|------------------------|-------|---------|------------|--------|
| 300F - W.L. Eskodilla | 3.70 | 7.00 | -0.20 | 6.80 |
| E.L. Eskodilla | 3.95 | 7.25 | -0.20 | 7.05 |
| 100F | | 7.50 | -0.20 | 7.30 |
| 200F | | 7.75 | -0.20 | 7.55 |
| 300F - W.L. Hoell | 2.50 | 8.00 | -0.20 | 7.80 |
| E.L. Hoell | 2.50 | 8.25 | -0.20 | 8.05 |
| 100F | | 8.50 | -0.20 | 8.30 |
| 200F | | 8.75 | -0.20 | 8.55 |
| 300F - W.L. Sutherland | 1.50 | 9.00 | -0.20 | 8.80 |
| E.L. Sutherland | 1.75 | 9.25 | -0.20 | 9.05 |
| 100F | | 9.50 | -0.20 | 9.30 |
| 200F | | 9.75 | -0.20 | 9.55 |
| 300F - W.L. Clayton | 6.00 | 10.00 | -0.20 | 9.80 |
| E.L. Clayton | 6.25 | 10.25 | -0.20 | 10.05 |
| 100F | | 10.50 | -0.20 | 10.30 |
| 200F | | 10.75 | -0.20 | 10.55 |
| 300F - W.L. Harcastey | 9.50 | 11.00 | -0.20 | 10.80 |
| E.L. Harcastey | 10.00 | 11.50 | -0.20 | 11.30 |

East Atlantic
W.L. Nibberby

Co. Grade

East Atlantic
W.L. Harcastey

East Atlantic
Co. Grade
-0.19

Harathy St. Water Grades

| | W. Co Grade | | | |
|-------------------------------|-------------|-------|---------------|---|
| 025 - S California | 50.7° | 46.10 | 4.78 4.20 | 3157.52 53.38 16.30 41.08 33.2 11.44 |
| 28.5 | | 44.58 | 1.62 +2.00 | |
| 78.5 | | 40.97 | | |
| 128.5 | | 37.37 | | |
| 178.5 - H.L. Hancock | 38.00 | 32.70 | 1.24 5.28 | |
| 225.5 - Water Line in Hancock | 33.1° | 32.70 | | 10.74 |

Hancock St. Water Grades

| | W. Co Grade | | | |
|--------------------|-------------|-------|--|---------------|
| 040 - F Harathy | 37.0° | 32.70 | | 1.24 5.28 |
| 50.5 | | 34.88 | | 1.62 +3.00 |
| 100.5 | | 34.86 | | 1.62 +3.00 |
| 150.5 | | 35.44 | | 1.62 +3.00 |
| 200.5 | | 36.02 | | 1.62 +3.00 |
| 250.5 | | 36.60 | | 1.62 +3.00 |
| 300.5 - H.L. Emory | 41.50 | 37.20 | | 1.62 +3.00 |
| 350.5 - Tec | | 37.80 | | 1.62 +3.00 |
| 400.5 - E.L. Emory | | 37.50 | | 1.62 +3.00 |
| 450.5 - Ead | | 37.90 | | 1.62 +3.00 |

West Atlantic
Fire Hydrants

8-10-27

35

Witberby S.E. Cor

BM 610 6.58 0.48

Atlantic
& Witberby

178 $\frac{4.8}{0.6}$

Coate S.E. Cor

6.58 2.16 0.92

Bardini

BM 9.83 6.52 2.31

Atlantic
& Bardini

173 $\frac{1.79}{0.6}$

Wright

BM 1017 7.21 -2.96

Atlantic
& Wright

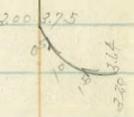
283 $\frac{4.38}{0.6}$



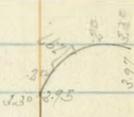
Wright



BM Top of d
5.36

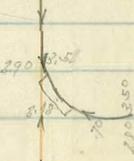
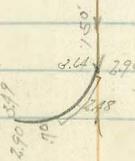


Estadilla



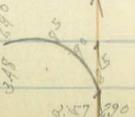
BM Top of d
6.47

Break



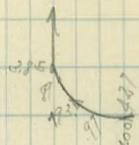
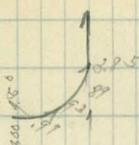
Break

Hoeil



BM Top of d
6.11

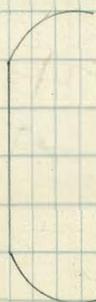
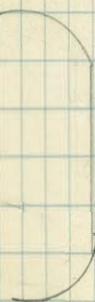
Sutherland



BM Top of d
7.47



Clayton



Hairasby



Some Construction
Outfall & Over Flow Across U.S. Marine Barr

Over Flow

EQUATION $9.0125 \times 19 \text{ Step} - 0.00 \text{ O/L Datum}$

| | Offset 10' E | 24" Pce | | | | | |
|-----------------------------------|--------------|-------------------------|------------------------------|----------|------|-----------------|-----------------|
| 0+0 = N.E. Line Marine Corps Base | 5.17 | 12.17 10.21 +2.47 | BM 4.88 1272.065 12.17 | 3.00 SM | 4.57 | 15.26 +10.75 | |
| 50'S | 5.10 | 12.23 10.27 +6.62 | 13.39 12.17 | 3.50 SM | 4.55 | 15.26 +10.75 | 15.26 +10.75 |
| 100'S | 5.08 | 12.23 10.27 +6.62 | 17.57 | 4.00 SM | 4.52 | 15.26 +10.75 | 15.26 +10.75 |
| 150'S | 5.05 | 12.23 10.27 +6.62 | 18.21 17.57 | 4.50 SM | 4.50 | 15.26 +10.75 | 15.26 +10.75 |
| 200'S | 5.03 | 12.23 10.27 +6.62 | 18.21 17.57 | 5.00 SM | 8.28 | 15.26 +10.75 | 15.26 +10.75 |
| 251.81' - M.H. 5 84° 41' R | 5.01 | 12.23 10.27 +6.62 | 18.21 17.57 | 5.50 SM | 8.23 | 15.26 +10.75 | 15.26 +10.75 |
| 50'S of M.H. 5 | 4.99 | 12.23 10.27 +6.62 | 18.21 17.57 | 6.00 SM | 8.18 | 15.26 +10.75 | 15.26 +10.75 |
| 100'S | 4.97 | 12.23 10.27 +6.62 | 18.21 17.57 | 6.50 SM | 8.13 | 15.26 +10.75 | 15.26 +10.75 |
| 150'S | 4.94 | 12.23 10.27 +6.62 | 18.21 17.57 | 7.00 SM | 8.08 | 15.26 +10.75 | 15.26 +10.75 |
| 200'S | 4.92 | 12.23 10.27 +6.62 | 18.21 17.57 | 7.50 SM | 8.03 | 15.26 +10.75 | 15.26 +10.75 |
| 250'S | 4.90 | 12.23 10.27 +6.62 | 18.21 17.57 | 8.00 SM | 7.98 | 15.26 +10.75 | 15.26 +10.75 |
| 300'S | 4.88 | 12.23 10.27 +6.62 | 18.21 17.57 | 8.50 SM | 7.91 | 15.26 +10.75 | 15.26 +10.75 |
| 366.75' - M.H. 7 62° 13' 12" R | 4.85 | 12.23 10.27 +6.62 | 18.21 17.57 | 9.00 SM | 7.86 | 15.26 +10.75 | 15.26 +10.75 |
| 25'S | 4.84 | 12.23 10.27 +6.62 | 18.21 17.57 | 9.50 SM | 7.81 | 15.26 +10.75 | 15.26 +10.75 |
| 50'S | 4.83 | 12.23 10.27 +6.62 | 18.21 17.57 | 10.00 SM | 7.76 | 15.26 +10.75 | 15.26 +10.75 |
| 75 | 4.82 | 12.23 10.27 +6.62 | 18.21 17.57 | 10.50 SM | 7.71 | 15.26 +10.75 | 15.26 +10.75 |
| 100'S | 4.81 | 12.23 10.27 +6.62 | 18.21 17.57 | 11.00 SM | 7.66 | 15.26 +10.75 | 15.26 +10.75 |
| 125 | 4.80 | 12.23 10.27 +6.62 | 18.21 17.57 | 11.50 SM | 7.61 | 15.26 +10.75 | 15.26 +10.75 |
| 150'S | 4.79 | 12.23 10.27 +6.62 | 18.21 17.57 | 12.00 SM | 7.56 | 15.26 +10.75 | 15.26 +10.75 |
| 175 | 4.78 | 12.23 10.27 +6.62 | 18.21 17.57 | 12.50 SM | 7.51 | 15.26 +10.75 | 15.26 +10.75 |
| 200'S | 4.77 | 12.23 10.27 +6.62 | 18.21 17.57 | 13.00 SM | 7.46 | 15.26 +10.75 | 15.26 +10.75 |
| 225 | 4.76 | 12.23 10.27 +6.62 | 18.21 17.57 | 13.50 SM | 7.41 | 15.26 +10.75 | 15.26 +10.75 |
| 250'S | 4.75 | 12.23 10.27 +6.62 | 18.21 17.57 | 14.00 SM | 7.36 | 15.26 +10.75 | 15.26 +10.75 |
| 275 | 4.74 | 12.23 10.27 +6.62 | 18.21 17.57 | 14.50 SM | 7.31 | 15.26 +10.75 | 15.26 +10.75 |
| 300'S | 4.73 | 12.23 10.27 +6.62 | 18.21 17.57 | 15.00 SM | 7.26 | 15.26 +10.75 | 15.26 +10.75 |
| 325.91' - M.H. 1 89° 28' 43" R | 4.72 | 12.23 10.27 +6.62 | 18.21 17.57 | 15.50 SM | 7.21 | 15.26 +10.75 | 15.26 +10.75 |
| 50'S M. | 4.71 | 12.23 10.27 +6.62 | 18.21 17.57 | 16.00 SM | 7.16 | 15.26 +10.75 | 15.26 +10.75 |
| 100'S M. | 4.70 | 12.23 10.27 +6.62 | 18.21 17.57 | 16.50 SM | 7.11 | 15.26 +10.75 | 15.26 +10.75 |
| 150'S M. | 4.69 | 12.23 10.27 +6.62 | 18.21 17.57 | 17.00 SM | 7.06 | 15.26 +10.75 | 15.26 +10.75 |
| 200'S M. | 4.68 | 12.23 10.27 +6.62 | 18.21 17.57 | 17.50 SM | 7.01 | 15.26 +10.75 | 15.26 +10.75 |
| 250'S M. | 4.67 | 12.23 10.27 +6.62 | 18.21 17.57 | 18.00 SM | 6.96 | 15.26 +10.75 | 15.26 +10.75 |

Re Set

0.10%

0.10%

0.10%

Over Flow Across U.S. Marine Base

Restarted

From MH No 1 to Special MH 374

12.32

40

1980
5.88
12.95
1978

| | | | | | | | | |
|---|-----|------------------------|---------------------------------|------------------------|-----|-------------------------|-----------------------|--|
| 300 N | 729 | 12.33 6.83 +6.31 | 1961 H 8.23 152.9 147 | MH No 1 2P 48° 21' 30" | 470 | 15.41 4.28 +7.73 | 12.99 4.25 1974 | SE H Blank with |
| 250 N | 724 | 12.32 5.82 +6.98 | 29.88 152.7 187.7 43.0 | 500 N | 463 | 15.48 4.72 +7.61 | 12.99 4.25 1974 | |
| 270 N = MH 371 | 722 | 12.39 5.81 +6.88 | 13.87 | 1000 N | 466 | 15.45 4.75 +7.70 | 12.99 4.25 1974 | |
| 450 N of MH | 717 | 12.40 5.44 +7.05 | 13.87 | 1500 N | 463 | 15.48 5.29 +10.27 | 12.99 4.25 1974 | |
| 1000 N | 712 | 12.56 5.99 +6.97 | 13.87 | 2000 N | 461 | 15.50 5.22 +10.28 | 12.99 4.25 1974 | OK 2000 2000 N Gun 1000 1000 |
| 1500 N | 707 | 12.59 5.78 +6.98 | 13.87 | 2500 N | 457 | 15.52 5.15 +10.37 | 12.99 4.25 1974 | |
| 2000 N | 702 | 12.64 5.73 +6.98 | 13.87 | 3000 N | 457 | 15.56 5.12 +10.54 | 12.99 4.25 1974 | |
| 2500 N | 697 | 12.61 5.69 +6.98 | 13.87 | 3500 N | 455 | 15.56 5.12 +10.44 | 12.99 4.25 1974 | |
| 3000 N | 692 | 12.71 5.60 +7.05 | 13.87 | 4000 N | 454 | 15.59 5.22 +10.36 | 12.99 4.25 1974 | |
| 3500 N | 687 | 12.74 5.57 +6.99 | 13.87 | 4500 N | 450 | 15.68 5.09 +10.59 | 12.99 4.25 1974 | 11.7P 15.02 +6.75 |
| 3700 N = MH Special 12372 : Fixing 5th Storm Drain | 685 | 12.76 5.57 +6.89 | 13.87 | | | | | |

| | | | | |
|------------------------|-----|-------------------------|-----------------------|--|
| MH No 1 2P 48° 21' 30" | 470 | 15.41 4.28 +7.73 | 12.99 4.25 1974 | SE H Blank with |
| 500 N | 463 | 15.48 4.72 +7.61 | 12.99 4.25 1974 | |
| 1000 N | 466 | 15.45 4.75 +7.70 | 12.99 4.25 1974 | |
| 1500 N | 463 | 15.48 5.29 +10.27 | 12.99 4.25 1974 | |
| 2000 N | 461 | 15.50 5.22 +10.28 | 12.99 4.25 1974 | OK 2000 2000 N Gun 1000 1000 |
| 2500 N | 457 | 15.52 5.15 +10.37 | 12.99 4.25 1974 | |
| 3000 N | 457 | 15.56 5.12 +10.54 | 12.99 4.25 1974 | |
| 3500 N | 455 | 15.56 5.12 +10.44 | 12.99 4.25 1974 | |
| 4000 N | 454 | 15.59 5.22 +10.36 | 12.99 4.25 1974 | |
| 4500 N | 450 | 15.68 5.09 +10.59 | 12.99 4.25 1974 | 11.7P 15.02 +6.75 |

Grades Polk Ave.

Euclid to Chamounie

| | S.L. | N.L. | Cont. Grades on 9 th Ave |
|-----------------------------------|--------|--------|-------------------------------------|
| N.L. Euclid | 345.00 | 345.50 | BM 349.87 |
| 50 ft | 44.21 | 44.47 | 345.47 |
| 100 ft | 43.41 | 43.21 | 344.96 |
| 150 ft | 42.62 | 43.00 | 344.50 |
| 200 ft | 41.82 | 42.17 | 344.06 |
| 250 ft | 41.03 | 41.34 | 343.51 |
| 270 ft - E.L. 47 th St | 340.70 | 341.00 | |

| | | | |
|--------------------------|--------|--------|--------|
| N.L. 47 th St | 341.00 | 341.30 | 340.62 |
| 50 ft | 42.02 | 42.34 | 340.62 |
| 100 ft | 43.04 | 43.38 | 353.70 |
| 150 ft | 44.06 | 44.44 | 352.79 |
| 200 ft | 45.07 | 45.46 | 351.41 |
| 250 ft | 46.09 | 46.50 | |
| 270 ft - E.L. Meola | 346.50 | 346.90 | |

| | | | |
|-----------------------------------|--------|--------|--|
| N.L. Meola | 346.80 | 347.20 | |
| 54 ft | 46.98 | 47.38 | |
| 108 ft | 47.16 | 47.56 | |
| 162 ft | 47.34 | 47.74 | |
| 216 ft | 47.52 | 47.92 | |
| 270 ft - E.L. 46 th St | 347.70 | 348.10 | |

35146
359
BM 349.87
N.E. Top H₂O
Polk & Euclid

123-27
41

| | | | | | | | |
|---|--------|-------|-------|-------|-------|-------|-------|
| N | 345.50 | 44.67 | 43.82 | 43.00 | 42.17 | 41.34 | 41.00 |
| | 5.96 | 6.8 | 7.6 | 8.5 | 9.3 | 10.1 | 10.5 |
| | | 14.9 | 14.0 | 13.7 | 13.0 | 10.9 | 10.4 |
| S | 345.50 | 44.71 | 43.41 | 42.67 | 41.82 | 41.03 | 40.70 |
| | 6.26 | 7.3 | 8.0 | 8.8 | 9.1 | 10.7 | 10.8 |
| | | 10.7 | 8.1 | 10.4 | 9.9 | 13.2 | 14.4 |
| | | | -8.1 | -1.6 | -0.3 | 3.3 | -3.6 |

| | | | | | | | |
|---|--------|-------|-------|-------|-------|-------|-------|
| N | 341.30 | 42.34 | 43.38 | 44.44 | 45.46 | 46.50 | 46.90 |
| | 10.3 | 8.1 | 8.1 | 7.3 | 6.2 | 5.0 | 4.1 |
| | -0.3 | -0.2 | 1.8 | 1.7 | 2.7 | 3.5 | 4.5 |
| S | 341.00 | 42.02 | 43.04 | 44.06 | 45.07 | 46.09 | 46.50 |
| | 10.5 | 9.4 | 8.4 | 7.4 | 6.4 | 5.4 | 5.0 |
| | -0.2 | 1.8 | 1.5 | 1.0 | 1.1 | 2.5 | 3.8 |
| | | | | | | | |

| | | | | | | |
|---|--------|-------|-------|-------|-------|-------|
| N | 347.80 | 47.38 | 47.56 | 47.74 | 47.92 | 48.10 |
| | 7.0 | 6.6 | 6.6 | 6.4 | 6.3 | 6.6 |
| | 18.9 | 17.9 | 18.9 | 18.7 | 17.9 | 10.3 |
| S | 346.80 | 47.34 | 47.16 | 47.34 | 47.52 | 47.70 |
| | 1.7 | 1.8 | 2.8 | 6.8 | 6.7 | 6.5 |
| | 17.6 | 17.5 | 18.9 | 17.5 | 10.7 | 6.7 |
| | | | | | | -0.2 |

N.E. Top H₂O
Polk & Meola
Support from Group

Park St Grades
Euclid to Chamounie

| | SL | NL | #135417 |
|---------------------------|--------|--------|---------|
| 11.2' 46.145' | 348.00 | 348.30 | |
| 54' 11' | 348.28 | 348.51 | |
| 708' 11' | 348.56 | 348.72 | |
| 162' 11' | 348.85 | 348.93 | |
| 216' 11' | 349.13 | 349.14 | |
| 270' 11' - E.L. Chamounie | 349.42 | 349.35 | |

| | | | | |
|---|--------------------|--------------------|--------------------|-------------------|
| N | 348.30 | 48.51 | 48.72 | 48.93 |
| | $\frac{5.9}{6.2}$ | $\frac{5.7}{7.5}$ | $\frac{5.5}{6.8}$ | $\frac{5.0}{5.0}$ |
| | $\frac{6.7}{-0.2}$ | $\frac{7.5}{-1.5}$ | $\frac{6.8}{-1.3}$ | |
| S | 348.00 | 48.28 | 48.56 | 48.85 |
| | $\frac{6.2}{6.7}$ | $\frac{5.9}{7.5}$ | $\frac{5.6}{6.8}$ | $\frac{5.0}{5.0}$ |
| | $\frac{7.0}{-1.0}$ | $\frac{7.2}{-1.2}$ | $\frac{6.9}{-0.9}$ | |

27th Grades -
University To Park

12-5-27
43

| | H.L. | EL | Prop. Grades | | | | | | | | | |
|-------------------|--------|--------|-----------------------------|---|--------|-------|-------|-------|-------|-------|-------|-------|
| N.L. University | 341.60 | 341.10 | BM 341.55 10.71 10.71 | F | 341.10 | 42.70 | 43.50 | 44.70 | 45.60 | 45.70 | 45.09 | 44.77 |
| 1st H | 342.70 | 342.30 | 351.73 16.97 | | | 7.3 | 8.3 | 7.3 | 6.2 | 6.0 | 7.6 | 7.3 |
| 500 H | 343.80 | 343.50 | 339.36 6.44 | | | +3.1 | +2.7 | +2.7 | +1.3 | +1.5 | +1.9 | +2.5 |
| 1200 H - Bk | 344.90 | 344.70 | 345.80 | H | 341.60 | 42.70 | 43.80 | 44.90 | 45.60 | 45.70 | 45.13 | 44.55 |
| 1100 H - Bk | 345.60 | 345.60 | | | | 8.8 | 7.9 | 6.8 | 6.1 | 6.0 | 6.6 | 7.6 |
| 200 H - Bk | 345.70 | 345.70 | | | | +0.2 | +0.9 | +1.0 | +1.3 | +1.3 | +1.3 | +2.6 |
| 250 H | 345.13 | 345.09 | | F | 43.87 | 42.25 | 42.64 | 42.02 | 41.42 | 40.70 | | |
| 300 H | 344.55 | 344.48 | | | | 7.8 | 8.5 | 8.1 | 7.2 | 5.1 | | |
| 350 H | 343.98 | 343.89 | | | | 5.2 | 6.0 | 5.0 | 4.2 | 2.5 | | |
| 400 H | 343.40 | 343.25 | | | | +2.7 | +0.5 | -1.9 | 4.0 | 2.7 | | |
| 450 H | 342.83 | 342.64 | | H | 43.97 | 42.40 | 42.83 | 42.25 | 41.68 | 41.00 | | |
| 500 H | 342.25 | 342.03 | | | | 7.6 | 8.3 | 8.9 | 8.5 | 7.1 | | |
| 550 H | 341.68 | 341.48 | | | | 5.0 | 6.2 | 6.4 | 5.5 | 4.7 | | |
| 600 H - S.L. Park | 341.10 | 340.80 | | | | +3.4 | +1.4 | +0.5 | 10.1 | 10.1 | | |

Grades Menlo St.
University to El Cajon.

| | HL | FL | |
|---------------------|--------|--------|-----------|
| N.L. University Ave | 342.10 | 342.60 | BM 342.03 |
| 50'H | 343.25 | 342.75 | 348.81 |
| 100'H | 343.40 | 342.90 | 347.04 |
| 150'H | 343.55 | 343.05 | 354.36 |
| 200'H = Brk | 343.70 | 343.20 | 348.81 |
| 250'H | 344.10 | 343.62 | BM 351.38 |
| 300'H | 344.50 | 344.05 | |
| 350'H | 344.90 | 344.47 | |
| 400'H | 345.30 | 344.90 | |
| 450'H | 345.70 | 345.32 | 343.02 |
| 500'H | 346.10 | 345.75 | 353.67 |
| 550'H | 346.50 | 346.17 | 351.37 |
| 600'H = S.L. Park | 346.90 | 346.60 | |

| | HL | FL | |
|-----------|--------|--------|-----------|
| N.L. Park | 347.20 | 347.00 | BM 351.40 |
| 50'H | 347.46 | 347.50 | 352.6 |
| 100'H | 347.61 | 347.60 | |
| 150'H | 347.77 | 347.60 | |
| 200'H | 347.97 | 347.80 | |
| 250'H | 348.08 | 348.00 | |
| 300'H | 348.24 | 348.19 | |
| 350'H | 348.39 | 348.39 | |
| 400'H | 348.55 | 348.59 | |
| 450'H | 348.70 | 348.79 | |

| 80' | F | 346.60 | 42.75 | 42.90 | 43.05 | 43.20 | 43.37 | 43.55 | 43.70 |
|-----|---|--------|-------|-------|-------|-------|-------|-------|-------|
| | | | 6.1 | 5.9 | 5.8 | 5.6 | 5.3 | 4.8 | 4.3 |
| | | | 5.9 | 6.2 | 6.2 | 5.6 | 5.3 | 4.8 | 4.3 |
| | | | +0.2 | -0.3 | -0.1 | -0.3 | -0.1 | +0.3 | +0.1 |

| 100' | F | 343.10 | 43.25 | 43.40 | 43.55 | 43.70 | 43.80 | 44.00 | 44.20 |
|------|---|--------|-------|-------|-------|-------|-------|-------|-------|
| | | | 5.6 | 5.9 | 5.9 | 5.1 | 4.7 | 4.3 | 3.9 |
| | | | 5.3 | 5.2 | 5.0 | 4.5 | 4.2 | 4.3 | 3.9 |
| | | | +0.3 | -0.1 | -0.1 | -0.1 | -0.1 | 0.0 | -0.4 |

| F | 44.90 | 45.32 | 45.75 | 46.17 | 46.50 |
|---|-------|-------|-------|-------|-------|
| | 3.7 | 3.8 | 3.5 | 3.1 | 2.9 |
| | 3.8 | 3.9 | 3.7 | 3.2 | 3.1 |
| | +3.0 | +4.1 | +3.8 | +3.3 | +2.7 |

| H | 45.30 | 45.70 | 46.10 | 46.50 | 46.80 |
|---|-------|-------|-------|-------|-------|
| | 3.5 | 3.6 | 3.3 | 2.8 | 2.5 |
| | 3.8 | 4.3 | 4.1 | 3.7 | 3.0 |
| | +1.7 | +2.3 | +3.7 | +4.1 | +4.5 |

| F | 47.00 | 47.20 | 47.40 | 47.60 | 47.80 | 48.00 | 48.19 | 48.35 | 48.50 | 48.70 |
|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | 5.0 | 5.1 | 5.1 | 5.0 | 4.8 | 4.6 | 4.2 | 3.8 | 3.5 | 3.3 |
| | 3.5 | 3.7 | 3.7 | 3.6 | 3.5 | 3.4 | 3.2 | 3.1 | 3.0 | 2.9 |
| | 1.1 | 1.0 | 1.0 | 1.0 | 1.0 | 0.8 | -0.6 | -0.3 | -0.1 | 0.0 |

| H | 347.32 | 47.41 | 47.61 | 47.77 | 47.85 | 48.0P | 48.24 | 48.39 | 48.55 | 48.70 |
|---|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | 5.1 | 5.0 | 4.8 | 4.7 | 4.5 | 4.4 | 4.1 | 3.7 | 3.0 | 2.8 |
| | 4.3 | 4.3 | 4.3 | 4.2 | 4.0 | 3.8 | 3.6 | 3.4 | 3.0 | 2.8 |
| | -2.1 | 1.0 | +1.1 | 4.0P | 0.0 | -0.2 | +0.1 | 0.0 | 0.0 | -0.1 |

Grades Menlo Park

| | H | I | 11252.60 |
|---------------------|-------|-------|----------|
| 500'H | 34896 | 34899 | |
| 550'H | 34902 | 34919 | |
| 577'H = S.L. Orange | 34910 | 34930 | |

| | | | |
|---|-------|-------|-------|
| I | 34899 | 49.19 | 49.20 |
| | 3.6 | 3.4 | 3.3 |
| | 3.9 | 3.5 | 3.3 |
| | -0.2 | -0.1 | 0.0 |
| H | 34896 | 49.02 | 49.10 |
| | 3.7 | 3.6 | 3.5 |
| | 3.6 | 3.1 | 3.0 |
| | 70.2 | 70.5 | 70.5 |

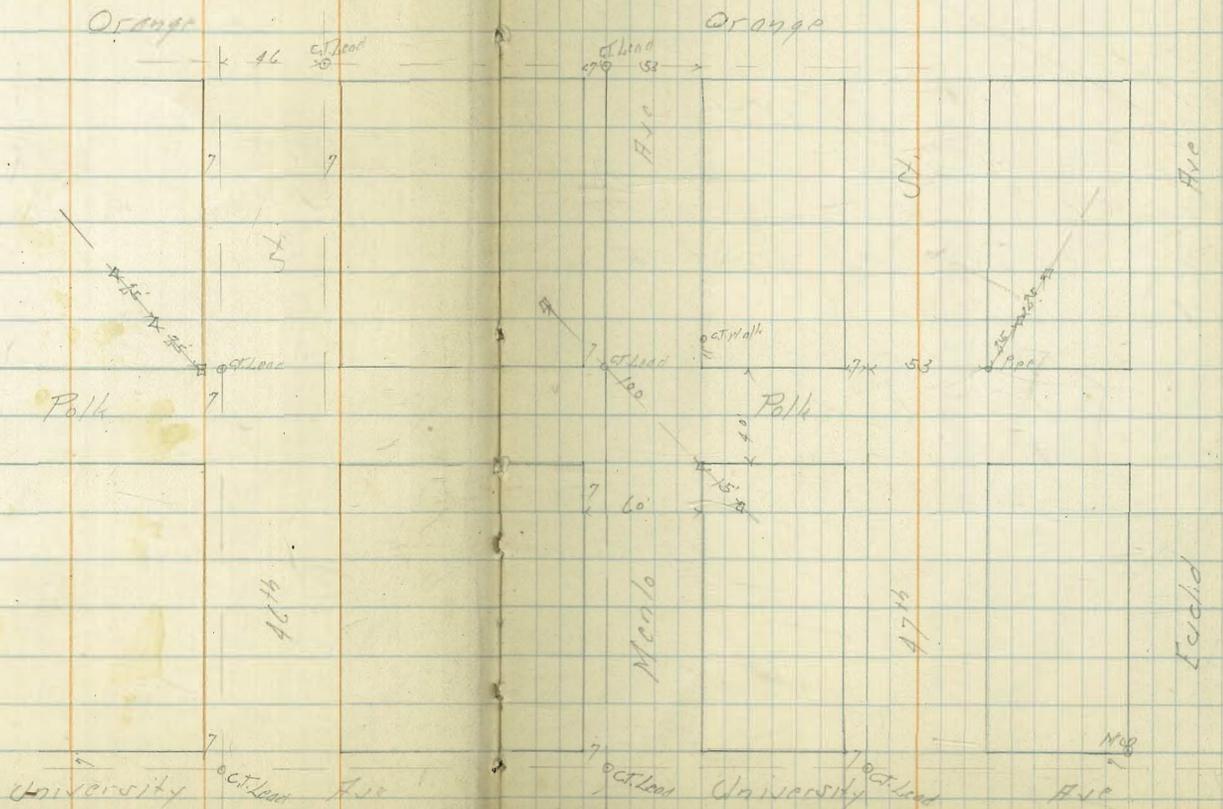
| | H | I | 34252.00 S.M. Orange |
|----------------------|-------|-------|----------------------|
| 600'H of H. Orange | 35460 | 35460 | 36021 |
| 650'H | 35511 | 35511 | |
| 700'H = Bch | 35562 | 35563 | |
| 750'H | 35420 | 35420 | |
| 800'H | 35377 | 35377 | |
| 850'H | 35134 | 35134 | |
| 8525' = S.L. Orange | 35119 | out | |
| 868.02 = S.L. Orange | | 35080 | |

| | | | | | |
|---|-------|-------|-------|-------|-------|
| I | 35563 | 54.20 | 54.27 | 54.34 | 50.70 |
| | 4.6 | 6.0 | 7.2 | 8.9 | 9.51 |
| | 3.2 | 3.8 | 3.8 | 3.6 | 9.62 |
| | 71.8 | 73.8 | 74.8 | 75.3 | |
| H | 35563 | 54.20 | 54.27 | 54.34 | 51.00 |
| | 4.6 | 7.0 | 7.2 | 8.8 | 9.01 |
| | 4.7 | 3.7 | 3.5 | 3.3 | 9.11 |
| | 71 | 70.2 | 71.7 | 72.4 | |

Menlo Water Grades

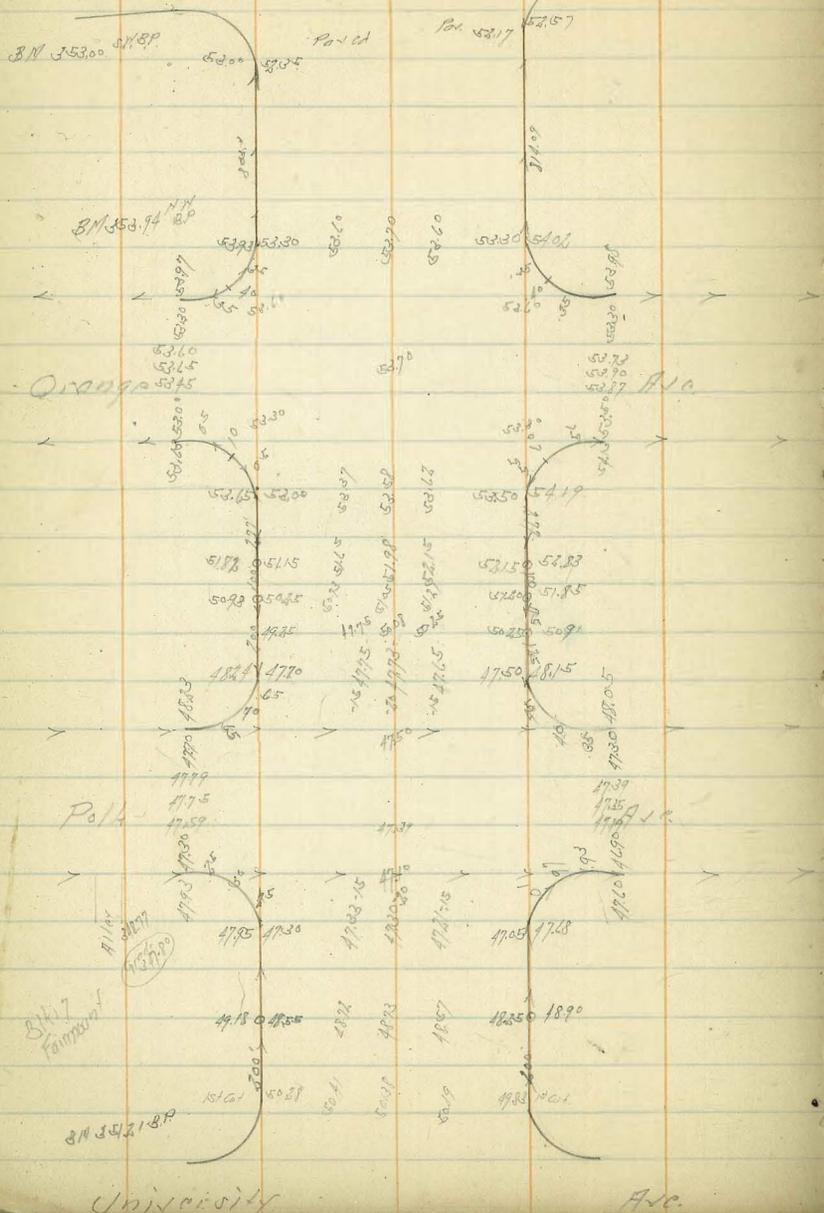
| | H | I | 35330.00 S.M. Orange |
|---------------|-------|-------|----------------------|
| S.L. E. Cajon | 34760 | 34760 | 36018 |
| 18'S | 34812 | 34812 | |
| 18'S | 34965 | 34965 | |
| 118'S | 35109 | 35109 | |
| 168'S = Bch | 35243 | 35243 | |

Ties Polk-University
46th St-Manlo-37th St.



16th St Parking

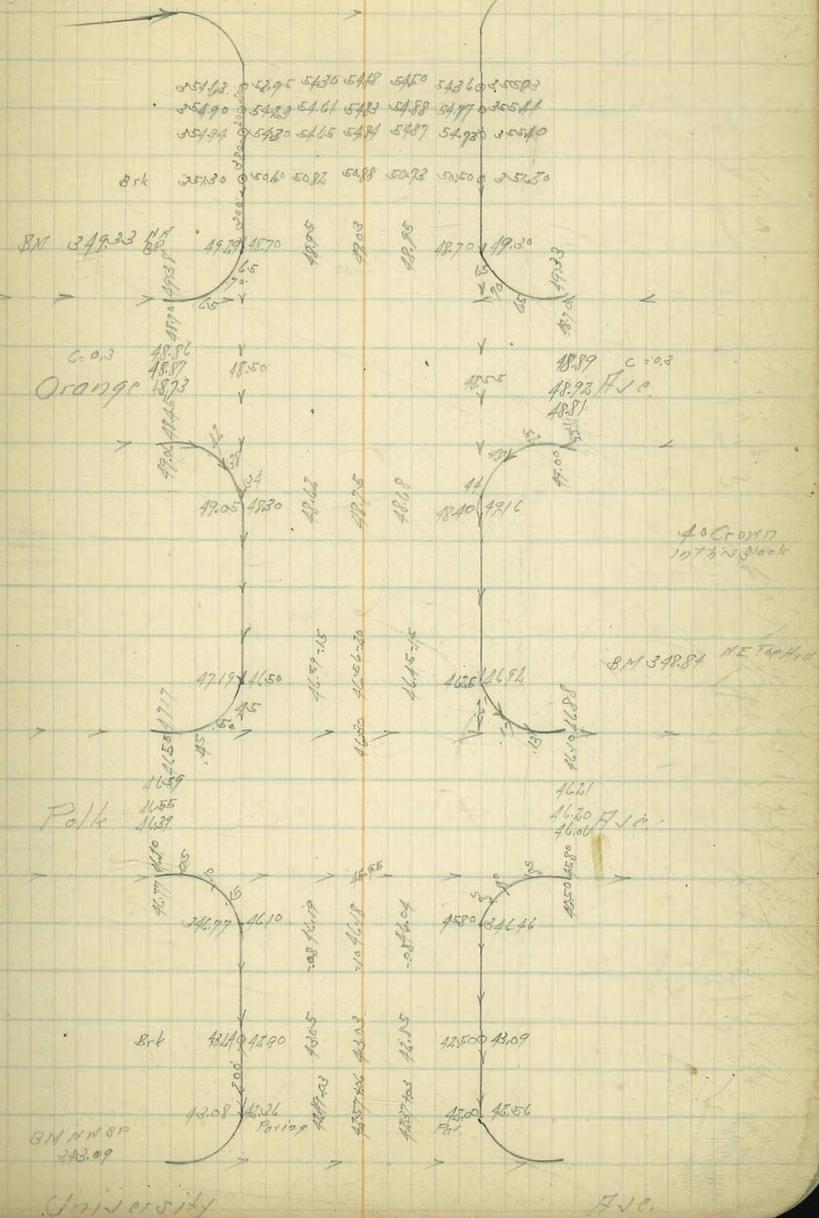
El Cajon



Marble Ave. Parking

El Cajon

59.00
49



Sewer Construction
Orange Ave

| | | | | |
|---------------------------------------|--------|------------------------|-----------------------------|-----------------------------|
| M.H. N° 2 - 1/2 Orange 416' | 345.66 | 11.13 2.47 78.66 | 8M 353.94 2.85 356.79 | N. 118° Orange +11.10 |
| 55' E | 345.88 | 11.51 2.87 78.37 | | |
| 110' E | 344.90 | 11.88 2.72 77.22 | | |
| 165' E - Existing M.H. | 344.51 | 12.08 2.00 77.22 | | |
| 55' E | 344.67 | 12.12 2.67 75.78 | | |
| 110' E | 344.83 | 11.96 2.00 74.71 | | |
| 165' E - M.H. N° 2 Orange 416' 345.00 | 345.00 | 11.78 2.65 74.39 | | |

46th St Sewer. Fl Cajon Ave 400 S

| | | | | |
|----------------------------------|--------|------------------------|------------------------|--|
| M.H. N° 1 - 1/2 Fl Cajon 46th St | 343.00 | 13.19 3.28 10.47 | 13.19 3.28 10.47 | M 353.00 S.H. 84 Fl Cajon +10.47 |
| 50' S | 343.62 | 15.06 2.20 77.22 | 13.76 2.20 77.22 | 357.37 +10.47 |
| 100' S | 344.25 | 14.44 2.51 75.78 | 13.51 2.51 75.78 | M 353.00 S.H. Fl Cajon +10.47 |
| 150' S | 344.88 | 13.81 2.87 75.37 | 13.81 2.87 75.37 | 358.19 +10.47 |
| 200' S | 345.50 | 13.19 3.55 74.64 | 13.19 3.55 74.64 | |
| 250' S | 346.13 | 12.51 3.85 74.05 | 12.51 3.85 74.05 | |
| 300' S | 346.75 | 11.81 4.15 73.42 | 11.81 4.15 73.42 | |
| 350' S | 347.38 | 11.13 4.47 72.79 | 11.13 4.47 72.79 | |
| 400' S = D.F. | 348.00 | 10.47 4.80 72.17 | 10.47 4.80 72.17 | |

Sewer Construction 46th St.
380 N of 1/2 Orange

12.11.17
51

| | | | | |
|-----------|--------|------------------------|-----------------------------|-----------------------------|
| M.H. N° 2 | 345.66 | 12.17 2.60 78.27 | 8M 353.94 2.85 356.79 | N. 118° Orange +11.10 |
| 50' | 345.97 | 12.16 2.60 78.26 | | |
| 100' E | 346.28 | 12.55 2.60 77.87 | | |
| 150' E | 346.59 | 12.24 2.33 77.51 | | |
| 200' E | 346.90 | 11.97 2.20 77.17 | | |
| 250' E | 347.21 | 11.64 2.00 76.81 | | |
| 300' E | 347.50 | 11.33 1.80 76.48 | | |
| 340' E | 347.75 | 11.08 1.55 76.23 | | |
| 380' E | 348.00 | 10.83 1.30 75.98 | | |

Culvert No 2 47th + Park

Through Block 20 Fairmount Add

12.16.27

345' of 36" Conc. Pipe offset 10' SW

| | | | | |
|------------------------------------|-------|---------------|--------|----------------------|
| 0+0 | 33370 | 13.27 4.05 | 347.82 | 15.44 FWH Each |
| 52 SE | 33250 | 11.87 3.96 | 347.19 | |
| 104 SE | 33130 | 10.32 3.22 | 337.13 | |
| 156 SE | 33010 | 8.86 3.16 | 334.36 | |
| 208 SE | 32890 | 7.41 2.87 | 332.27 | |
| 260 SE = Bk | 32770 | 6.05 2.14 | 330.10 | |
| 297 SE | 32751 | 4.60 1.59 | 328.51 | |
| 335.0 SE = Existing 36" Conc. Pipe | 32732 | 3.15 1.08 | 327.32 | |

Senior Construction Men's Ave

Orange Ave + E/Cajon Ave

52

| | | | | |
|-------------|--------|---------------|--------|-------------------------|
| MH No 4 | 34500 | 13.04 4.21 | 345.00 | 34500 34500 34500 |
| 50' | 34532 | 12.21 4.14 | 345.32 | 14.20 +3.70 |
| 100' | 34564 | 10.88 3.74 | 345.64 | 12.36 +3.70 |
| 150' | 34596 | 9.53 3.24 | 345.96 | 10.52 +3.70 |
| 200' | 34628 | 8.18 2.74 | 346.28 | 8.68 +3.70 |
| 250' | 34660 | 6.83 2.24 | 346.60 | 6.83 +3.70 |
| 300' | 34692 | 5.48 1.74 | 346.92 | 5.48 +3.70 |
| 345' | 34721 | 4.13 1.24 | 347.21 | 4.13 +3.70 |
| 390' | 34750 | 2.78 0.74 | 347.50 | 2.78 +3.70 |
| 450' | 34785 | 1.43 0.24 | 347.85 | 1.43 +3.70 |
| 500' | 34820 | 0.08 0.00 | 348.20 | 0.08 +3.70 |
| 550' | 34855 | 0.00 0.00 | 348.55 | 0.00 +3.70 |
| 600' | 34890 | 0.00 0.00 | 348.90 | 0.00 +3.70 |
| 650' | 34925 | 0.00 0.00 | 349.25 | 0.00 +3.70 |
| 700' | 34960 | 0.00 0.00 | 349.60 | 0.00 +3.70 |
| 755' N - DI | 350.00 | 0.00 0.00 | 350.00 | 0.00 +3.70 |

Culvert No 1

Across 47th St. 48' of 36" Conc. Pipe

| | | | | |
|---------------|-------|------------------------|--------|-----------------------------------|
| N End Culvert | 33430 | 9.62 3.22 | 334.30 | |
| 48' E End " | 33370 | 8.27 2.65 | 333.70 | |
| | 33370 | 15.14 5.63 16.57 | 333.70 | 13.47 4.05 347.82 347.82 |

Mento Aie
Senior Laterals

1-4-28

53

Lateral No 8 710' N of H.L. Orange 351.00
6.30
2.07
4.23
BM 3483 Orange
11.97
357.30
Mento

" " 9 650' " " 351.00
6.30
4.36
10.66

" " 10 550' " " 350.00
7.30
3.34
10.64

" " 11 450' " " 349.00
8.30
4.34
12.64

" " 12 350' " " 348.00
9.30
5.34
14.64

" " 13 250' N of H.L. Orange 347.50
9.30
5.34
14.64

" " 14 150' N of H.L. Orange 346.80
10.58
7.29
17.87

28th St Paving

Convent #81

50' of 18" Conc Pipe 811311.96
 30793 Tls. 9.63 24.0
 30330 Fltline 14.4 23.7

E End Culvert

50' N. of E End Culvert

12-11-31

54

Clear St.

327.50 27.90

26.50

2870 P. of
 2870 P. of
 2870 P. of
 2870 P. of

311.72 22.80

311 3180 BP

2680 Fox Paving

370.00 19.40

317.00 18.70

825 7.15
 172 7.40
 143 6.80
 126 6.70
 7.50 6.90

309.50 22.30

2870
 2027

1952
 1957

2002
 1973
 1972
 1957
 1979

2027
 2027

19.70 338.55

17.15

19.20 320.00

19.50

8100 30875.
 7500 30814.
 7000 205.02
 7200 507.86
 7250 40804

875 410.00

311 32056 NECP

1000 ST

Redwood St

Ties Pascadero-Bermuda
Ocean Beach

58

Guizot
R 25 11 11 11 11 11

Froude
R 25 11 11 11 11 11
Rascadero
Bermuda
Point Loma

Ebars
R 25 11 11 11 11 11

San Set

Cliff Bldg

Santa Barbara

R 25 11 11 11 11 11

Guizot

R 25 11 11 11 11 11

Bermuda Ave
Concrete Hall At West

2-15-28

59

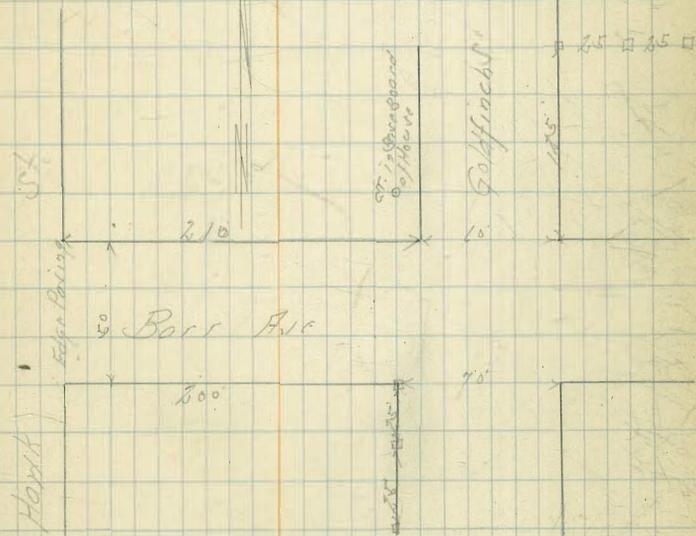
| | | | | | |
|------------------|-----|-------|------|------|---|
| B.M. | 538 | 2639 | | 711 | N.W. CP Bermuda + Base |
| TP | 272 | 1112 | 1299 | 1340 | |
| N. End Conc Hall | | | 710 | 902 | on Existing Wall |
| TP | 361 | 705 | 1268 | 244 | |
| A | | | 674 | 021 | Wall in Park 10' N of Conc Hall SPIT of A |
| S. End Conc Hall | | 11168 | 1036 | 576 | on Existing Wall |

Goldfinch St Grades
Barr Ave to

| W.L. Sta | N.L. | E.L. Sta | E.L. | 31.25.50 | 32.40 | | | | | | | | | |
|------------------|--------|----------|--------|----------|-------|--------|-------|-------|-------|-------|-------|-------|------|--|
| N.L. Barr Ave | 242.10 | | 241.60 | 257.88 | 8.11 | 241.60 | 36.93 | 32.66 | 22.60 | 22.10 | 17.60 | 13.10 | 7.80 | |
| 41.66N | 237.60 | | 236.93 | 239.87 | 8.22 | 11.3 | 16.0 | 8.0 | 12.60 | 11.6 | 15.3 | 15.8 | 2.5 | |
| 83.33N | 233.10 | | 232.26 | 240.87 | 8.33 | 10.3 | 12.7 | 8.2 | 14.0 | 11.6 | 15.3 | 15.8 | 2.5 | |
| 115.5N - Bt | 228.60 | 125.1 | 227.60 | 241.94 | 8.44 | 11.0 | 14.3 | 17.2 | 17.7 | 17.0 | 16.6 | 16.0 | 1.7 | |
| 139 = P.C. of C. | | | | 242.99 | 8.55 | | | | | | | | | |
| 168.9N - P.R.C. | 222.10 | 175.1 | 222.10 | 244.06 | 8.66 | | | | | | | | | |
| 189 | | | | 245.12 | 8.77 | | | | | | | | | |
| 218.8N - E.C. | 217.60 | 215.1 | 217.60 | 246.19 | 8.88 | | | | | | | | | |
| 240 | | | | 247.26 | 8.99 | | | | | | | | | |
| 256.8N - P.C. | 214.60 | 260.1 | 214.10 | 248.32 | 9.10 | | | | | | | | | |
| 275.35 | | | | 249.39 | 9.21 | | | | | | | | | |
| 288.55N | 210.10 | 300.1 | 207.80 | 250.45 | 9.32 | | | | | | | | | |
| 307 | | | | 251.52 | 9.43 | | | | | | | | | |
| 320.80N - E.C. | 207.60 | | | 252.58 | 9.54 | | | | | | | | | |

Goldfinch Water Grades

| | | | | | |
|------------------------|--------|-------|-------|--------|-------|
| N.L. Barr | 238.00 | 148.1 | 148.5 | 252.64 | 9.65 |
| 41.66N | 233.30 | 149.1 | 149.5 | 253.71 | 9.76 |
| 83.33N | 228.60 | 150.1 | 150.5 | 254.78 | 9.87 |
| 115.5N - Bt | 224.00 | 151.1 | 151.5 | 255.85 | 9.98 |
| 139N | 218.80 | 152.1 | 152.5 | 256.92 | 10.09 |
| 168.9N | 214.00 | 153.1 | 153.5 | 257.99 | 10.20 |
| 189N | 209.00 | 154.1 | 154.5 | 259.06 | 10.31 |
| 218.8N - A in Paradise | 207.50 | 155.1 | 155.5 | 260.13 | 10.42 |
| 240N - Foot | 204.85 | 156.1 | 156.5 | 261.20 | 10.53 |



Sewer Constructing Barr Ave

| | | | | | |
|-----------------|--------|-------|-------|--------|------|
| St. Barr Ave | 242.50 | 148.1 | 148.5 | 252.64 | 9.65 |
| 35N - M.H. Barr | 241.50 | 149.1 | 149.5 | 253.71 | 9.76 |
| 50N - N.L. Barr | 238.40 | 148.1 | 148.5 | 252.64 | 9.65 |

West Atlantic St. Add.
Sewer Construction

2-17-22

63

| | | | | |
|--------------------------------------|-------|-----------------------|------------------------|-----------------------------------|
| DE - 80' N of MH | -2.40 | 8.10 8.28 8.78 | 311 138 141 5.77 | 51 Tank Mitten- 4 1/2' 1/2' |
| 40' F | -2.83 | 8.68 8.28 14.02 | | |
| 80' F - MH. Existing Sewer A 13' 46" | -3.26 | 8.05 5.00 14.05 | | |
| 65' F of MH | -2.91 | 8.70 8.40 14.40 | | |
| 111' F - A 11° 37' | -2.56 | 8.07 8.26 14.77 | | |
| 155.5' F | -2.28 | 8.07 8.26 14.77 | | |
| 300' F of MH - OF | -2.00 | 7.78 7.38 13.76 | | |

0.063

Alley Block 77 Park Villas
University-Highstation-Arizona. Road

5-5-58
64

| | W | F | | | | | | | | | | | | |
|------------------------|--------|--------|--------|-------|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| HL Highman | 295.12 | 295.37 | 306.40 | 55.88 | I | 295.37 | 296.50 | 297.63 | 298.76 | 299.89 | 301.02 | 302.15 | 303.28 | 304.41 |
| 35H | 296.30 | 296.50 | 306.60 | 56.30 | | 9.09 | 7.96 | 6.83 | 5.70 | 4.57 | 3.44 | 2.31 | 1.18 | 0.05 |
| 70H | 297.47 | 297.63 | 307.18 | 56.71 | | | 11.03 | 9.85 | 8.67 | 7.54 | 6.41 | 5.28 | 4.15 | 3.02 |
| 105H | 298.64 | 298.76 | 308.18 | 57.12 | | | | 10.02 | 8.84 | 7.66 | 6.48 | 5.35 | 4.22 | 3.09 |
| 140H - Bk | 299.80 | 299.90 | 309.18 | 57.53 | | | | 8.99 | 7.81 | 6.63 | 5.45 | 4.32 | 3.19 | 2.06 |
| 180H - PVC | 302.20 | 302.20 | 309.78 | 57.94 | | | | 7.92 | 6.74 | 5.56 | 4.38 | 3.25 | 2.12 | 1.00 |
| 200H | 303.00 | 303.00 | 310.00 | 58.35 | | | | 6.85 | 5.67 | 4.49 | 3.31 | 2.18 | 1.05 | -0.08 |
| 220H - PVC | 302.80 | 302.90 | 310.20 | 58.76 | | | | 5.78 | 4.60 | 3.42 | 2.24 | 1.11 | 0.00 | |
| 250H - S.L. University | 301.80 | 302.00 | 310.40 | 59.17 | | | | 4.71 | 3.53 | 2.35 | 1.17 | 0.04 | | |

Bermuda Ave Point

67

Santa Barbara

100000 100000
100000 100000
100000 100000
100000 100000
100000 100000
100000 100000
100000 100000
100000 100000

S.M. 20102
S.M. 10710-200
S.M. 100

100000 100000
100000 100000
100000 100000
100000 100000
100000 100000
100000 100000

Guigot

Marine St Grades
Oliveras Ave to Pacific Ocean

| | S | SL | NL | BM | 70.91 | NE SP La Villa Escuela |
|----------------------------|-------|-------|-------|----------|-------|------------------------------|
| NL Oliveras | 59.10 | | 59.10 | | 10.91 | |
| 45th | 56.60 | | 56.60 | | 10.91 | |
| 90th | 54.10 | | 54.10 | | 10.91 | |
| 135th | 51.60 | | 51.60 | | 10.91 | |
| 180th = EL Montalvito | 49.10 | 48.10 | 49.10 | 48.10 | 10.91 | |
| NL Montalvito | 47.10 | 48.10 | 47.10 | 48.10 | 10.91 | |
| 36.0th | 42.10 | | 41.77 | | 10.91 | |
| 70.34th | 37.10 | | 36.44 | BM 70.14 | 10.91 | Marine + Montalvito |
| 110.00th - Bal | 32.10 | | 31.10 | BM 36.5 | 10.91 | Vista del Mar |
| 137.5th | 29.10 | | 29.10 | | 10.91 | |
| 165.0th - Bal | 26.10 | | 25.10 | | 10.91 | |
| 210.0th = EL Vista del Mar | 24.10 | 24.10 | 24.10 | | 10.91 | |
| NL Vista del Mar | 24.10 | 24.10 | 23.10 | 24.10 | 10.91 | |
| 40.0th | 21.77 | | 20.77 | | 10.91 | |
| 80.0th | 19.44 | | 18.44 | | 10.91 | |
| 120th - El Endimo | 17.10 | | 16.10 | | 10.91 | |

Fire Hyd Marine + Vista del Mar

| | | |
|---------|------|-------|
| BM | 5.42 | 29.14 |
| Hyd Top | | 25.20 |

00H 57th Mar
Marine + Montalvito

| | N | 59.10 | 56.60 | 54.10 | 51.60 | 49.10 | 47.10 | 42.10 | 36.44 | 31.10 | 29.10 | 25.10 | 24.10 |
|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| N | 59.10 | 56.60 | 54.10 | 51.60 | 49.10 | 47.10 | 42.10 | 36.44 | 31.10 | 29.10 | 25.10 | 24.10 | |
| S | 59.10 | 56.60 | 54.10 | 51.60 | 49.10 | 47.10 | 42.10 | 36.44 | 31.10 | 29.10 | 25.10 | 24.10 | |
| N | 25.10 | 24.10 | 23.10 | 20.77 | 19.44 | 16.10 | | | | | | | |
| S | 26.10 | 25.10 | 24.10 | 21.77 | 19.44 | 17.10 | | | | | | | |

Marine St Sea Wall

| | | | | |
|------------------------------|------|-------|-------|-------|
| BM | 0.27 | 29.51 | 29.14 | 29.14 |
| 00 St 0.5 N of EL Montalvito | | 8.77 | 21.22 | |
| TP | 1.34 | 18.22 | 16.61 | 16.90 |
| 00 St 0.5 N of EL Montalvito | | 10.85 | 7.86 | |

8.90-27
5.00-27
3.11
4.00
0.15
68

Monte Vista High Grades
Sea Lane to north of Marine St

| | N | E | 511.71 51.33 51.71 51.70 |
|--------------------------|-------|-------|-----------------------------------|
| N.L. Sea Lane | 51.10 | 51.20 | |
| 50 N | 50.85 | 51.80 | |
| 100 N | 50.60 | 51.40 | |
| 150 N | 50.35 | 51.00 | |
| 200 N = Brk | 50.10 | 50.60 | |
| 250 N | 49.25 | 49.60 | |
| 315.0 N = S.L. Marine St | 48.10 | 48.60 | |
| N.L. Marine St | 48.10 | 48.60 | |
| 50 N | 48.85 | 49.35 | |
| 100 N = N.L. Top | 49.60 | 50.10 | |

Olivet's High Grades

| | N | E |
|-------------|-------|-------|
| N.L. Olivet | 59.10 | 59.60 |
| 50 N | 58.85 | 59.35 |
| 100 N | 58.60 | 59.10 |

| | F | 51.10 | 51.80 | 51.40 | 51.00 | 50.60 | 49.60 | 48.60 | 48.60 | 49.35 | 50.10 |
|--|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | 2.7 | 3.0 | 5.0 | 5.4 | 5.8 | 6.0 | 7.8 | | 7.0 | 6.3 |
| | | +2.3 | +1.2 | 11.7 | 12.6 | 11.7 | 12.4 | | | 11.7 | 10.7 |

| | N | 51.10 | 50.85 | 50.60 | 50.35 | 50.10 | 49.60 | 48.60 | 48.60 | 49.35 | 49.60 |
|--|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | | 5.2 | 5.8 | 2.8 | 6.7 | 2.1 | 8.3 | 7.2 | 7.5 | 2.6 |
| | | | 5.0 | 10.2 | 7.6 | 10.7 | 7.3 | | 7.0 | 10.1 | 10.8 |

Fire Hyd Monte Vista at Sea Lane

| | | |
|------|-------|-------------|
| 3.94 | 55.65 | 51.71 |
| | | 3.63 - |
| | | 3.97 |
| | | 58.08 10.44 |

| | F | 59.50 | 59.35 | 59.10 |
|--|---|-------|-------|-------|
| | | 4.15 | 2.9 | 2.5 |
| | | | 3.1 | 3.2 |
| | | | 11.8 | 10.8 |

| | N | 59.10 | 58.85 | 58.60 |
|--|---|----------|-------|-------|
| | | 2.3 | 4.8 | 5.5 |
| | | 2.8 | 5.5 | 6.7 |
| | | 11.0 m/h | 10.7 | 10.7 |

Vista Del Mar A/c
Sea Level to Marine

70

| | H | F | | | | | | | | | | | | |
|--------------------|------|------|---------|--------------------|------|------|------|------|------|------|------|------|--|--|
| HL San Laza | 3625 | 3755 | 0M 3626 | 3755 ⁰⁶ | 3730 | 3625 | 3515 | 3495 | 3335 | 3215 | 2810 | 2510 | | |
| 50'N | 3515 | 3730 | 377 | 3730 | 3730 | 3625 | 3515 | 3495 | 3335 | 3215 | 2810 | 2510 | | |
| 100'N - 8th | 3495 | 3605 | | | | | | | | | | | | |
| 140'N | 3420 | 3505 | | | | | | | | | | | | |
| 180'N P.V.C. | 3345 | 3405 | | | | | | | | | | | | |
| 300'N | 3275 | 3325 | | | | | | | | | | | | |
| 280'N P.V.C. | 3155 | 3215 | | | | | | | | | | | | |
| 2675'N | 3025 | 2960 | | | | | | | | | | | | |
| 315'N S.L. Mac 10' | 2960 | 2870 | | | | | | | | | | | | |

Vista Del Mar - Sea Level

Fire Hyd

HL 10.27 2. Ford

Hyd 3230

Marina St Gradn
Caviter Lo Droper

Cb Gradn in Prop

5/1
12

| | N | S |
|---------------------|-------|-------|
| EL. Caviter | 87.25 | 87.00 |
| 14 F | 89.61 | 89.40 |
| 88 F | 91.97 | 91.80 |
| 132 F | 94.34 | 94.20 |
| 174 F | 96.70 | 96.60 |
| 220 F - Fentling Cb | 99.07 | 99.00 |

| | | | | | | |
|---|-------|-------|-------|-------|-------|---------------------|
| N | 87.25 | 89.61 | 91.97 | 94.34 | 96.70 | 99.07 ^{cb} |
| | 13.2 | 10.8 | 8.5 | 5.6 | 3.9 | 1.85 |
| | 11.7 | 9.2 | 7.6 | 4.5 | 2.8 | |
| S | 87.00 | 89.40 | 91.80 | 94.20 | 96.60 | 99.00 ^{cb} |
| | 13.0 | 10.5 | 8.3 | 5.6 | 3.8 | 1.82 |
| | 11.4 | 8.9 | 7.6 | 4.6 | 2.8 | |

Fire Hyd. Marina & Caviter

| | | | | |
|----|-----|-------|------------------------|-----------------|
| BM | 639 | 97.31 | 85.92 | Marinet Caviter |
| HA | | 87.54 | ⁴²² 85.7 | |

Marine St Saver Construction
At Olivetas

5-11-23

75

| | | | | |
|-------|--|-------|-------------------------|--------------------|
| DE | 110' Exp. L. Olivetas | 60.49 | 61.10 61.10 -0.61 | NETT |
| 40'H | | 58.74 | 57.55 57.77 -0.22 | Marinet Machado |
| 80'H | | 56.99 | 56.99 -0.00 | |
| 120'H | | 55.34 | 55.34 -0.00 | |
| 160'H | Exp. Dig. Saver 10'H of W. Olivetas | 53.50 | 53.50 -0.00 | |

85.66
85.66
85.66
85.66
85.66
85.66

Marine St Saver At Curier

| | | | | |
|-------|------------------------|-------|-------------------------|-------------------|
| DE | | 94.50 | 94.50 94.50 -0.00 | NETT |
| 40'H | | 93.48 | 93.48 93.48 -0.00 | Marinet Curier |
| 80'H | | 90.46 | 90.46 90.46 -0.00 | |
| 120'H | | 88.45 | 88.45 88.45 -0.00 | |
| 160'H | | 86.43 | 86.43 86.43 -0.00 | |
| 200'H | | 84.41 | 84.41 84.41 -0.00 | |
| 240'H | MH N° 3 of Curier | 82.40 | 82.40 82.40 -0.00 | |
| 34'H | of MH | 81.08 | 81.08 81.08 -0.00 | |
| 68'H | Exp. Dig. Saver | 79.66 | 79.66 79.66 -0.00 | |
| 30' | of MH N° 3. Sl. Marine | 83.60 | 83.60 83.60 -0.00 | |

Paving Alley Block S University Heights
 both to Boundary Between Adams & Works Ave.

P38969

5-11-11
 77

| | S | N | | | | | | | | | | | | |
|-----------------------|-------|-------|----------|-------|---|-------|------|------|------|------|------|------|------|------|
| NL Boundary | 38880 | 38850 | 8m 38904 | SERP | N | 38950 | 8920 | 8900 | 8990 | 8970 | 8951 | 8940 | 8950 | 8960 |
| 20 W | 38950 | 38920 | 4.14 | Adams | | 38950 | 8920 | 8900 | 8990 | 8970 | 8951 | 8940 | 8950 | 8960 |
| 40 W | 38990 | 38980 | 393.88 | 30th | | 38950 | 8920 | 8900 | 8990 | 8970 | 8951 | 8940 | 8950 | 8960 |
| 60 W | 39000 | 38990 | 394.96 | | | 38950 | 8920 | 8900 | 8990 | 8970 | 8951 | 8940 | 8950 | 8960 |
| 107.47 W | 38983 | 38972 | 397.2 | | | 38950 | 8920 | 8900 | 8990 | 8970 | 8951 | 8940 | 8950 | 8960 |
| 154.94 W | 38966 | 38956 | 398.72 | | | 38950 | 8920 | 8900 | 8990 | 8970 | 8951 | 8940 | 8950 | 8960 |
| 202.40 W - FLNS Alley | 38950 | 38940 | 399.3 | | | 38950 | 8920 | 8900 | 8990 | 8970 | 8951 | 8940 | 8950 | 8960 |
| 227.70 W - NL | 38950 | 38950 | 400.0 | | | 38950 | 8920 | 8900 | 8990 | 8970 | 8951 | 8940 | 8950 | 8960 |
| 268.63 W | 38960 | 38960 | 401.7 | | | 38950 | 8920 | 8900 | 8990 | 8970 | 8951 | 8940 | 8950 | 8960 |
| 309.56 W | 38970 | 38970 | 402.8 | | | 38950 | 8920 | 8900 | 8990 | 8970 | 8951 | 8940 | 8950 | 8960 |
| 350.50 W | 38980 | 38980 | 403.9 | | | 38950 | 8920 | 8900 | 8990 | 8970 | 8951 | 8940 | 8950 | 8960 |
| 390.50 W | 38950 | 38960 | 405.0 | | | 38950 | 8920 | 8900 | 8990 | 8970 | 8951 | 8940 | 8950 | 8960 |
| 430.50 W | 38920 | 38940 | 406.1 | | | 38950 | 8920 | 8900 | 8990 | 8970 | 8951 | 8940 | 8950 | 8960 |
| 450.50 W | 38910 | 38900 | 407.2 | | | 38950 | 8920 | 8900 | 8990 | 8970 | 8951 | 8940 | 8950 | 8960 |
| 465.50 W - FL 20th St | 38960 | 38970 | 408.3 | | | 38950 | 8920 | 8900 | 8990 | 8970 | 8951 | 8940 | 8950 | 8960 |

SERP
 Adams
 Boundary
 392.76

Paving Works Place
 Works Are South to #112

| | N | F |
|------------------------|-------|-------|
| S.L. Works Acc. | 38690 | 38690 |
| 12.5 | 38810 | 38840 |
| 2.275 | | |
| 39.55 | 38875 | 38860 |
| 67.05 | 38840 | 38890 |
| 2.70 | | |
| 97.05 | 38865 | 38910 |
| 107.05 | 38890 | 38940 |
| 136.325 = N. 21/2 on W | 38950 | 38900 |
| 160.425 = " " " " " E | | 3894 |

| F | 386.90 | 388.40 | 388.60 | 388.90 | 389.10 | 389.40 | 389.40 |
|---|--------|--------|--------|--------|--------|--------|--------|
| | 7.93 | 2.43 | 2.63 | 5.93 | 5.53 | 5.73 | |
| | 7.90 | 5.93 | 5.82 | 5.82 | 5.13 | 5.23 | |
| | | +0.30 | +0.21 | +0.47 | +0.43 | +0.15 | |

| N | 386.90 | 388.10 | 388.65 | 389.40 | 389.65 | 389.90 | 389.50 |
|---|--------|--------|--------|--------|--------|--------|--------|
| | 7.93 | 2.52 | 2.96 | 2.73 | 5.27 | 5.23 | |
| | 7.93 | 5.93 | 5.77 | 5.82 | 5.17 | 5.27 | |
| | | +0.56 | +0.61 | +0.39 | +0.17 | +0.19 | |

Alley Block 172 University Heights
 Lincoln to Polk Baltimore Louisiana + Texas

5/10/21
 79

| | H | F | |
|-------------------|--------|--------|--------------------------|
| 116 Lincoln | 308.50 | 309.50 | BY 311.91 Local Polk |
| 20 H | 310.50 | 311.20 | |
| 30 H | 311.30 | 311.70 | |
| 40 H - F.S.C. | 311.50 | 311.90 | |
| 40 H | 311.67 | 312.17 | |
| 120 H | 311.85 | 312.35 | |
| 160 H | 312.02 | 312.52 | |
| 200 H - Brk | 312.20 | 312.70 | |
| 217.5 H - 10 | 312.05 | 312.55 | SEBP Polk + Texas 311.95 |
| 295 H | 311.90 | 312.40 | |
| 342.5 H | 311.75 | 312.25 | |
| 390 H | 311.60 | 312.10 | |
| 437.5 H | 311.45 | 311.95 | |
| 485.0 H | 311.30 | 311.80 | |
| 532.5 H | 311.15 | 311.65 | |
| 580 H - Brk | 311.00 | 311.50 | |
| 606 H - S.L. Polk | 310.90 | 311.30 | |

| | | | | | | | | | | | | | |
|---|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| F | 308.50 | 10.80 | 11.50 | 11.80 | 11.97 | 12.15 | 12.33 | 12.50 | 12.65 | 12.85 | 13.05 | 13.25 | 13.40 |
| | 7.41 | 1.01 | 1.70 | 1.90 | 1.99 | 2.15 | 2.33 | 2.50 | 2.65 | 2.85 | 3.05 | 3.25 | 3.40 |
| | | 3.71 | 5.41 | 7.31 | 9.30 | 11.45 | 13.75 | 16.25 | 18.90 | 21.75 | 24.80 | 28.05 | 31.50 |
| | | 1.07 | 1.83 | 2.73 | 3.78 | 4.98 | 6.33 | 7.83 | 9.48 | 11.28 | 13.23 | 15.33 | 17.58 |
| | | -1.17 | -1.83 | -2.53 | -3.27 | -4.05 | -4.88 | -5.75 | -6.68 | -7.65 | -8.68 | -9.75 | -10.87 |
| M | 308.50 | 10.50 | 11.20 | 11.50 | 11.67 | 11.85 | 12.02 | 12.20 | 12.40 | 12.65 | 12.95 | 13.30 | 13.70 |
| | 8.41 | 1.41 | 2.71 | 3.41 | 3.70 | 3.85 | 3.92 | 3.95 | 3.95 | 3.95 | 3.95 | 3.95 | 3.95 |
| | | 2.00 | 4.65 | 6.71 | 8.11 | 9.56 | 11.05 | 12.58 | 14.15 | 15.75 | 17.40 | 19.10 | 20.85 |
| | | 1.07 | 1.83 | 2.73 | 3.78 | 4.98 | 6.33 | 7.83 | 9.48 | 11.28 | 13.23 | 15.33 | 17.58 |
| | | -1.17 | -1.83 | -2.53 | -3.27 | -4.05 | -4.88 | -5.75 | -6.68 | -7.65 | -8.68 | -9.75 | -10.87 |
| F | 12.05 | 11.90 | 11.75 | 11.60 | 11.45 | 11.30 | 11.20 | | | | | | |
| | 12.25 | 12.10 | 11.95 | 11.80 | 11.65 | 11.50 | 11.30 | | | | | | |
| | 3.90 | 4.05 | 4.20 | 4.35 | 4.50 | 4.65 | 4.80 | | | | | | |
| | 8.92 | 9.07 | 9.22 | 9.37 | 9.52 | 9.67 | 9.82 | | | | | | |
| | 11.80 | 11.65 | 11.50 | 11.35 | 11.20 | 11.05 | 10.90 | | | | | | |
| | 11.20 | 11.05 | 10.90 | 10.75 | 10.60 | 10.45 | 10.30 | | | | | | |
| M | 11.75 | 11.60 | 11.45 | 11.30 | 11.15 | 11.00 | 10.85 | | | | | | |
| | 2.13 | 2.28 | 2.43 | 2.58 | 2.73 | 2.88 | 3.03 | | | | | | |
| | 5.88 | 6.03 | 6.18 | 6.33 | 6.48 | 6.63 | 6.78 | | | | | | |
| | 8.80 | 8.95 | 9.10 | 9.25 | 9.40 | 9.55 | 9.70 | | | | | | |

See Hall + Vicks
See Lane

5/1/28

See Lane + Vicks
See Lane

| | | | | | |
|---------------------------------|------|-------|-------|-------|---------|
| B.M. | 0.01 | 34.27 | 13.14 | 23.13 | |
| | 0.54 | 22.27 | 7.10 | 15.17 | (16.27) |
| Top cb of Top Stairs H. Sid. | | | 7.10 | 15.17 | (16.27) |
| Top cb of S Side | | | 7.10 | 15.17 | (16.27) |
| Top Hall | | | 9.13 | 14.04 | |

DIRECTIONS FOR USE OF TABLES

TABLE No. 1.

Distance of slope stake from side or shoulder
stake for any width roadway, slope 1% 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

To find Tangent and External for curve of
any other degree, divide by degree of curve and
add connector 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.

27
30

10.41
- 3.31

7.10 = HI
 .19

7.29

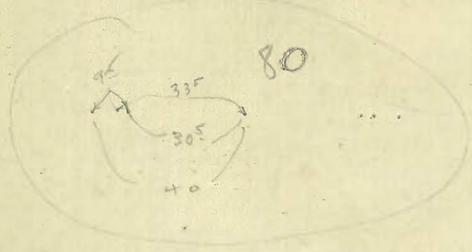
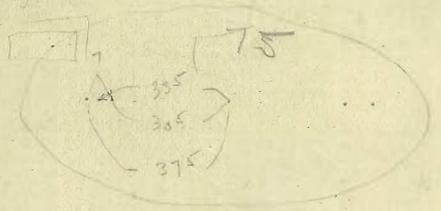
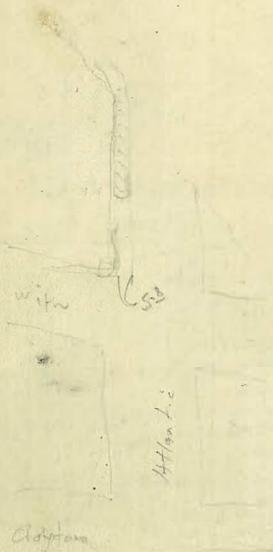
7.12
2.70

4.42 S

7.12
3.00

4.12 N

385
75



225.07
150

375.07

225.07
75

150.07