

3.8
 35

 373.
 43

 416

DISTANCES FROM SIDE STAKES FOR CROSS-SECTIONING
 SLOPE 1 TO 1. ROADWAY OF ANY WIDTH

| | 0 | .1 | .2 | .3 | .4 | .5 | .6 | .7 | .8 | .9 | |
|----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----|
| 0 | 0.00 | 0.10 | 0.20 | 0.30 | 0.40 | 0.50 | 0.60 | 0.70 | 0.80 | 0.90 | 0 |
| 1 | 1.00 | 1.10 | 1.20 | 1.30 | 1.40 | 1.50 | 1.60 | 1.70 | 1.80 | 1.90 | 1 |
| 2 | 2.00 | 2.10 | 2.20 | 2.30 | 2.40 | 2.50 | 2.60 | 2.70 | 2.80 | 2.90 | 2 |
| 3 | 3.00 | 3.10 | 3.20 | 3.30 | 3.40 | 3.50 | 3.60 | 3.70 | 3.80 | 3.90 | 3 |
| 4 | 4.00 | 4.10 | 4.20 | 4.30 | 4.40 | 4.50 | 4.60 | 4.70 | 4.80 | 4.90 | 4 |
| 5 | 5.00 | 5.10 | 5.20 | 5.30 | 5.40 | 5.50 | 5.60 | 5.70 | 5.80 | 5.90 | 5 |
| 6 | 6.00 | 6.10 | 6.20 | 6.30 | 6.40 | 6.50 | 6.60 | 6.70 | 6.80 | 6.90 | 6 |
| 7 | 7.00 | 7.10 | 7.20 | 7.30 | 7.40 | 7.50 | 7.60 | 7.70 | 7.80 | 7.90 | 7 |
| 8 | 8.00 | 8.10 | 8.20 | 8.30 | 8.40 | 8.50 | 8.60 | 8.70 | 8.80 | 8.90 | 8 |
| 9 | 9.00 | 9.10 | 9.20 | 9.30 | 9.40 | 9.50 | 9.60 | 9.70 | 9.80 | 9.90 | 9 |
| 10 | 10.00 | 10.10 | 10.20 | 10.30 | 10.40 | 10.50 | 10.60 | 10.70 | 10.80 | 10.90 | 10 |
| 11 | 11.00 | 11.10 | 11.20 | 11.30 | 11.40 | 11.50 | 11.60 | 11.70 | 11.80 | 11.90 | 11 |
| 12 | 12.00 | 12.10 | 12.20 | 12.30 | 12.40 | 12.50 | 12.60 | 12.70 | 12.80 | 12.90 | 12 |
| 13 | 13.00 | 13.10 | 13.20 | 13.30 | 13.40 | 13.50 | 13.60 | 13.70 | 13.80 | 13.90 | 13 |
| 14 | 14.00 | 14.10 | 14.20 | 14.30 | 14.40 | 14.50 | 14.60 | 14.70 | 14.80 | 14.90 | 14 |
| 15 | 15.00 | 15.10 | 15.20 | 15.30 | 15.40 | 15.50 | 15.60 | 15.70 | 15.80 | 15.90 | 15 |
| 16 | 16.00 | 16.10 | 16.20 | 16.30 | 16.40 | 16.50 | 16.60 | 16.70 | 16.80 | 16.90 | 16 |
| 17 | 17.00 | 17.10 | 17.20 | 17.30 | 17.40 | 17.50 | 17.60 | 17.70 | 17.80 | 17.90 | 17 |
| 18 | 18.00 | 18.10 | 18.20 | 18.30 | 18.40 | 18.50 | 18.60 | 18.70 | 18.80 | 18.90 | 18 |
| 19 | 19.00 | 19.10 | 19.20 | 19.30 | 19.40 | 19.50 | 19.60 | 19.70 | 19.80 | 19.90 | 19 |
| 20 | 20.00 | 20.10 | 20.20 | 20.30 | 20.40 | 20.50 | 20.60 | 20.70 | 20.80 | 20.90 | 20 |
| 21 | 21.00 | 21.10 | 21.20 | 21.30 | 21.40 | 21.50 | 21.60 | 21.70 | 21.80 | 21.90 | 21 |
| 22 | 22.00 | 22.10 | 22.20 | 22.30 | 22.40 | 22.50 | 22.60 | 22.70 | 22.80 | 22.90 | 22 |
| 23 | 23.00 | 23.10 | 23.20 | 23.30 | 23.40 | 23.50 | 23.60 | 23.70 | 23.80 | 23.90 | 23 |
| 24 | 24.00 | 24.10 | 24.20 | 24.30 | 24.40 | 24.50 | 24.60 | 24.70 | 24.80 | 24.90 | 24 |
| 25 | 25.00 | 25.10 | 25.20 | 25.30 | 25.40 | 25.50 | 25.60 | 25.70 | 25.80 | 25.90 | 25 |
| 26 | 26.00 | 26.10 | 26.20 | 26.30 | 26.40 | 26.50 | 26.60 | 26.70 | 26.80 | 26.90 | 26 |
| 27 | 27.00 | 27.10 | 27.20 | 27.30 | 27.40 | 27.50 | 27.60 | 27.70 | 27.80 | 27.90 | 27 |
| 28 | 28.00 | 28.10 | 28.20 | 28.30 | 28.40 | 28.50 | 28.60 | 28.70 | 28.80 | 28.90 | 28 |
| 29 | 29.00 | 29.10 | 29.20 | 29.30 | 29.40 | 29.50 | 29.60 | 29.70 | 29.80 | 29.90 | 29 |
| 30 | 30.00 | 30.10 | 30.20 | 30.30 | 30.40 | 30.50 | 30.60 | 30.70 | 30.80 | 30.90 | 30 |
| 31 | 31.00 | 31.10 | 31.20 | 31.30 | 31.40 | 31.50 | 31.60 | 31.70 | 31.80 | 31.90 | 31 |
| 32 | 32.00 | 32.10 | 32.20 | 32.30 | 32.40 | 32.50 | 32.60 | 32.70 | 32.80 | 32.90 | 32 |
| 33 | 33.00 | 33.10 | 33.20 | 33.30 | 33.40 | 33.50 | 33.60 | 33.70 | 33.80 | 33.90 | 33 |
| 34 | 34.00 | 34.10 | 34.20 | 34.30 | 34.40 | 34.50 | 34.60 | 34.70 | 34.80 | 34.90 | 34 |
| 35 | 35.00 | 35.10 | 35.20 | 35.30 | 35.40 | 35.50 | 35.60 | 35.70 | 35.80 | 35.90 | 35 |
| 36 | 36.00 | 36.10 | 36.20 | 36.30 | 36.40 | 36.50 | 36.60 | 36.70 | 36.80 | 36.90 | 36 |
| 37 | 37.00 | 37.10 | 37.20 | 37.30 | 37.40 | 37.50 | 37.60 | 37.70 | 37.80 | 37.90 | 37 |
| 38 | 38.00 | 38.10 | 38.20 | 38.30 | 38.40 | 38.50 | 38.60 | 38.70 | 38.80 | 38.90 | 38 |
| 39 | 39.00 | 39.10 | 39.20 | 39.30 | 39.40 | 39.50 | 39.60 | 39.70 | 39.80 | 39.90 | 39 |
| 40 | 40.00 | 40.10 | 40.20 | 40.30 | 40.40 | 40.50 | 40.60 | 40.70 | 40.80 | 40.90 | 40 |
| 41 | 41.00 | 41.10 | 41.20 | 41.30 | 41.40 | 41.50 | 41.60 | 41.70 | 41.80 | 41.90 | 41 |
| 42 | 42.00 | 42.10 | 42.20 | 42.30 | 42.40 | 42.50 | 42.60 | 42.70 | 42.80 | 42.90 | 42 |
| 43 | 43.00 | 43.10 | 43.20 | 43.30 | 43.40 | 43.50 | 43.60 | 43.70 | 43.80 | 43.90 | 43 |
| 44 | 44.00 | 44.10 | 44.20 | 44.30 | 44.40 | 44.50 | 44.60 | 44.70 | 44.80 | 44.90 | 44 |
| 45 | 45.00 | 45.10 | 45.20 | 45.30 | 45.40 | 45.50 | 45.60 | 45.70 | 45.80 | 45.90 | 45 |
| 46 | 46.00 | 46.10 | 46.20 | 46.30 | 46.40 | 46.50 | 46.60 | 46.70 | 46.80 | 46.90 | 46 |
| 47 | 47.00 | 47.10 | 47.20 | 47.30 | 47.40 | 47.50 | 47.60 | 47.70 | 47.80 | 47.90 | 47 |
| 48 | 48.00 | 48.10 | 48.20 | 48.30 | 48.40 | 48.50 | 48.60 | 48.70 | 48.80 | 48.90 | 48 |
| 49 | 49.00 | 49.10 | 49.20 | 49.30 | 49.40 | 49.50 | 49.60 | 49.70 | 49.80 | 49.90 | 49 |
| 50 | 50.00 | 50.10 | 50.20 | 50.30 | 50.40 | 50.50 | 50.60 | 50.70 | 50.80 | 50.90 | 50 |

Cuts

11 4

COPIED
 JAN 20 1965

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 level estimate the difference in elevation between the side stake and slope stake, lower target by this amount if cut, elevate if fill. Add this amount to cut or fill and find distance in table. Set up rod at this point, and line of sight should cut target. If it does not make the slight adjustment necessary.

TABLE XIII—CORRECTIONS FOR TANGENTS AND EXTERNALS

These corrections are to be added to the approximate values, found by dividing the tangent, or external, for a 1° curve (Table VIII) by the degree of curve, in order to obtain the true tangents, or externals. Intermediate values may be obtained by interpolation.

FOR TANGENTS ADD

| Central Angle | DEGREE OF CURVE | | | | | | | | | | | | | |
|---------------|-----------------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° | 55° | 60° | 65° | 70° |
| 10° | .03 | .06 | .09 | .13 | .16 | .19 | .22 | .25 | .28 | .31 | .34 | .38 | .42 | .46 |
| 15° | .04 | .10 | .14 | .19 | .24 | .29 | .34 | .39 | .45 | .51 | .53 | .58 | .63 | .68 |
| 20° | .06 | .13 | .19 | .26 | .32 | .39 | .45 | .51 | .58 | .65 | .72 | .79 | .84 | .90 |
| 25° | .08 | .16 | .24 | .33 | .40 | .49 | .58 | .67 | .75 | .83 | .90 | .99 | 1.06 | 1.14 |
| 30° | .10 | .19 | .29 | .39 | .49 | .59 | .69 | .79 | .89 | .99 | 1.09 | 1.20 | 1.29 | 1.39 |
| 35° | .11 | .22 | .34 | .47 | .58 | .69 | .79 | .81 | .92 | 1.04 | 1.29 | 1.42 | 1.54 | 1.66 |
| 40° | .13 | .26 | .40 | .53 | .67 | .80 | .93 | 1.06 | 1.20 | 1.34 | 1.49 | 1.64 | 1.79 | 1.94 |
| 45° | .15 | .30 | .44 | .60 | .76 | .91 | 1.06 | 1.21 | 1.37 | 1.52 | 1.70 | 1.87 | 2.04 | 2.21 |
| 50° | .17 | .34 | .51 | .68 | .85 | 1.02 | 1.19 | 1.36 | 1.54 | 1.72 | 1.91 | 2.10 | 2.29 | 2.48 |
| 55° | .19 | .38 | .57 | .76 | .95 | 1.14 | 1.32 | 1.52 | 1.72 | 1.92 | 2.14 | 2.35 | 2.56 | 2.77 |
| 60° | .21 | .42 | .63 | .84 | 1.05 | 1.27 | 1.49 | 1.71 | 1.94 | 2.17 | 2.38 | 2.60 | 2.83 | 3.07 |
| 65° | .23 | .46 | .69 | .93 | 1.16 | 1.40 | 1.64 | 1.88 | 2.13 | 2.38 | 2.63 | 2.88 | 3.13 | 3.39 |
| 70° | .25 | .51 | .76 | 1.02 | 1.28 | 1.54 | 1.80 | 2.06 | 2.33 | 2.60 | 2.88 | 3.16 | 3.44 | 3.72 |
| 75° | .27 | .56 | .83 | 1.12 | 1.40 | 1.69 | 1.98 | 2.27 | 2.57 | 2.87 | 3.16 | 3.47 | 3.78 | 4.09 |
| 80° | .30 | .61 | .91 | 1.22 | 1.53 | 1.84 | 2.15 | 2.46 | 2.78 | 3.10 | 3.44 | 3.78 | 4.12 | 4.46 |
| 85° | .33 | .66 | 1.00 | 1.33 | 1.68 | 2.02 | 2.36 | 2.70 | 3.05 | 3.40 | 3.77 | 4.14 | 4.55 | 4.89 |
| 90° | .36 | .72 | 1.09 | 1.45 | 1.83 | 2.20 | 2.57 | 2.94 | 3.32 | 3.70 | 4.10 | 4.50 | 4.91 | 5.32 |
| 95° | .39 | .79 | 1.19 | 1.55 | 2.00 | 2.40 | 2.80 | 3.20 | 3.61 | 4.02 | 4.40 | 4.98 | 5.38 | 5.83 |
| 100° | .43 | .86 | 1.30 | 1.74 | 2.18 | 2.62 | 3.06 | 3.50 | 3.95 | 4.40 | 4.88 | 5.37 | 5.85 | 6.34 |
| 110° | .51 | 1.03 | 1.56 | 2.08 | 2.61 | 3.14 | 3.67 | 4.21 | 4.76 | 5.31 | 5.86 | 6.43 | 7.01 | 7.60 |
| 120° | .62 | 1.25 | 1.93 | 2.52 | 3.16 | 3.81 | 4.45 | 5.11 | 5.77 | 6.44 | 7.12 | 7.80 | 8.50 | 9.22 |

FOR EXTERNALS ADD

| Central Angle | DEGREE OF CURVE | | | | | | | | | | | | | |
|---------------|-----------------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° | 55° | 60° | 65° | 70° |
| 10° | .001 | .003 | .004 | .006 | .007 | .008 | .009 | .011 | .012 | .014 | .015 | .017 | .018 | .020 |
| 15° | .003 | .007 | .010 | .014 | .018 | .023 | .027 | .032 | .035 | .039 | .043 | .047 | .051 | .055 |
| 20° | .006 | .011 | .017 | .022 | .028 | .034 | .038 | .045 | .051 | .057 | .063 | .070 | .076 | .083 |
| 25° | .009 | .018 | .027 | .036 | .046 | .056 | .065 | .074 | .083 | .093 | .106 | .120 | .127 | .135 |
| 30° | .013 | .025 | .038 | .051 | .065 | .078 | .090 | .103 | .116 | .129 | .149 | .170 | .179 | .188 |
| 35° | .018 | .035 | .054 | .072 | .086 | .109 | .131 | .153 | .175 | .197 | .213 | .230 | .247 | .264 |
| 40° | .023 | .046 | .070 | .093 | .117 | .141 | .172 | .203 | .234 | .265 | .277 | .290 | .315 | .341 |
| 45° | .030 | .060 | .093 | .119 | .153 | .184 | .216 | .254 | .289 | .325 | .351 | .378 | .411 | .445 |
| 50° | .037 | .075 | .116 | .151 | .189 | .227 | .266 | .305 | .345 | .384 | .425 | .467 | .508 | .550 |
| 55° | .046 | .093 | .142 | .188 | .236 | .283 | .332 | .381 | .420 | .479 | .530 | .582 | .641 | .700 |
| 60° | .056 | .112 | .168 | .225 | .283 | .340 | .398 | .457 | .516 | .575 | .636 | .697 | .774 | .851 |
| 65° | .067 | .135 | .204 | .273 | .343 | .412 | .483 | .554 | .625 | .697 | .711 | .845 | .922 | 1.01 |
| 70° | .080 | .159 | .240 | .321 | .403 | .485 | .568 | .652 | .735 | .819 | .906 | .994 | 1.08 | 1.17 |
| 75° | .095 | .182 | .266 | .353 | .440 | .528 | .617 | .707 | .797 | .877 | .971 | 1.07 | 1.18 | 1.29 |
| 80° | .110 | .220 | .332 | .445 | .558 | .671 | .787 | .903 | 1.02 | 1.13 | 1.25 | 1.38 | 1.50 | 1.62 |
| 85° | .128 | .259 | .391 | .524 | .657 | .790 | .926 | 1.06 | 1.20 | 1.34 | 1.47 | 1.62 | 1.76 | 1.91 |
| 90° | .149 | .299 | .450 | .603 | .756 | .910 | 1.07 | 1.22 | 1.38 | 1.54 | 1.70 | 1.87 | 2.03 | 2.20 |
| 95° | .174 | .350 | .522 | .706 | .885 | 1.06 | 1.25 | 1.43 | 1.62 | 1.80 | 1.99 | 2.18 | 2.38 | 2.58 |
| 100° | .200 | .401 | .604 | .809 | 1.01 | 1.22 | 1.43 | 1.64 | 1.85 | 2.06 | 2.28 | 2.50 | 2.73 | 2.96 |
| 110° | .268 | .536 | .806 | 1.08 | 1.35 | 1.63 | 1.91 | 2.20 | 2.48 | 2.76 | 3.05 | 3.35 | 3.66 | 3.96 |
| 120° | .360 | .721 | 1.08 | 1.45 | 1.82 | 2.19 | 2.57 | 2.95 | 3.33 | 3.72 | 4.11 | 4.50 | 4.91 | 5.32 |

INDEX

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alice

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alice

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{ NORTH of SUNSET CT., 6" A.C. MAIN alice

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alice

CUT
Sheet
MADE
2/11

Pickwick St 34th to 35th
SEKS for 6" AC Main

| | | | |
|----------|------|-------|-------------|
| B.M. | 0.21 | 78.10 | 77.89 |
| 0+40 | | 1.6 | 76.5 71.8 |
| +50 | | 2.1 | 76.0 71.5 |
| +65 | | 2.8 | 75.3 71.2 |
| +65 | | 2.8 | 75.3 74.5 |
| +91 M.N. | | 1.8 | 76.3 73.9 |
| 1+00 | | 4.2 | 73.9 69.4 |
| +33 M.N. | | 3.4 | 74.7 72.2 |
| +50 | | 6.4 | 71.7 67.4 |
| +92 M.N. | | 6.3 | 71.8 69.7 |
| 2+00 | | 8.3 | 69.8 65.2 |
| +37 M.N. | | 7.2 | 70.9 68.2 |
| +50 | | 9.4 | 68.7 64.1 |
| +62 M.S. | | 10.1 | 68.0 67.0 |
| +90 M.S. | | 9.8 | 68.3 66.5 |
| 3+00 | | 9.9 | 68.2 62.9 |
| +16 M.N. | | 8.9 | 69.2 66.4 |
| +50 | | 11.4 | 66.7 61.8 |
| T.P. | 0.46 | 67.54 | 11.02 67.08 |

West
Williams
Varonfakis &
Kellhofer &

Clear + Warm

2/11/55

566 FB 877 Page 42

Top south rim sewer

MH 9' 2" 0+30

- C4 ⁷
- C4 ⁵
- C4 ¹ F.H TEE
- C0 ⁸ F.H (5)
- C2 ⁴
- C4 ⁵
- C2 ⁵
- C4 ³
- C2 ¹
- C4 ⁶
- C2 ¹
- C4 ⁶
- C1 ⁰
- C1 ⁸
- C5 ³
- C2 ⁸
- C4 ⁹

PICKWICK ST CONT.

67.54

2/11/55

3+95 M.S. 1.7 65.8 64.2

C1 ⁶

4+00 2.0 65.5 60.6

C4 ⁹

+06 M.N. 0.4 67.1 64.4

C2 ⁷

+50 2.6 64.9 59.4

C5 ⁵

+58 M.S. 2.9 64.6 62.8

C1 ⁸

5+00 4.0 63.5 58.2

C5 ³

+05 M.S. 4.0 63.5 61.6

C1 ⁹

+02 M.N. 3.1 64.4 62.2

C2 ²

+50 6.0 61.5 55.8

C5 ⁷

+65 M.N. 5.2 62.3 60.2

C2 ¹

6+00 9.2 58.3 53.2

C5 ¹

+24 M.N. 11.3 56.2 56.4

F0 ²

+50 13.2 54.3 49.8

C4 ⁵

T.P. 9.79 64.74 12.59 54.95

7+00 11.5 53.2 48.6

C4 ⁶

T.P. 10.55 74.75 0.54 64.20

CHECK

T.B.M. 7.67 67.08 = 67.04

F.B. 877 PAGE 42 S. RIM M.H. 3+60

Cut
sheet
made
2/11

Island St 32nd to Bancroft
Sts for 6" AQ Main

| | | | | |
|--------|------|-------|-------|-----------|
| | 7.39 | 89.41 | 82.02 | |
| 0+40 | | | 6.9 | 82.5 78.4 |
| +62.5 | | | 7.0 | 82.4 78.4 |
| 1+00 | | | 6.6 | 82.8 78.7 |
| +05 mn | | | 6.4 | 83.0 82.4 |
| +12 mn | | | 6.5 | 82.9 82.5 |
| +30 ms | | | 6.5 | 82.9 82.6 |
| +50 | | | 6.1 | 83.3 79.1 |
| +65 ms | | | 6.0 | 83.4 82.9 |
| +90 mn | | | 5.4 | 84.0 83.2 |
| 2+00 | | | 5.3 | 84.1 79.6 |
| +06 ms | | | 5.3 | 84.1 83.3 |
| +25 | | | 5.0 | 84.4 79.8 |
| +50 ms | | | 5.1 | 84.3 83.1 |
| +50 | | | 4.9 | 84.5 79.5 |
| +75 | | | 5.2 | 84.2 78.2 |
| 3+00 | | | 6.1 | 83.3 76.2 |
| | 227 | 81.08 | 10.60 | 78.81 |
| +31 ms | | | 0.6 | 80.5 76.4 |

West
Williams X
Varonakis
Kellhofer & 2/11/55

3

BM NW (D&T) 32nd + Island

| | | | |
|----|--------------|----------------|-------|
| C4 | ¹ | Begin Work | |
| C4 | ⁰ | | |
| C4 | ¹ | | |
| C0 | ⁶ | | 32089 |
| C0 | ⁴ | | 3210 |
| C0 | ³ | wait binney | 3211 |
| C4 | ² | | 3217 |
| C0 | ⁵ | | 3216 |
| C0 | ⁸ | | ↓ |
| C4 | ⁵ | | |
| C0 | ⁸ | | 3221 |
| C4 | ⁶ | | |
| C1 | ² | | 3225 |
| C5 | ⁰ | | |
| C6 | ⁰ | | |
| C7 | ¹ | | |
| C4 | ¹ | | |

Island St Cont.

1

81.08

2/11/55

3+50 2.6 78.5 69.3

C9 ²

+65 ms 4.7 76.1 71.6

C4 ⁸

3239

+62 mN 3.9 77.2 72.1

C5 ¹

3230

+79 mN 6.1 75.0 69.8

C5 ²

32

+87.5 7.9 73.2 64.0

C9 ²

4+00 9.6 71.5 63.4

C8 ¹

+13 11.0 70.1 62.9

C7 ²

end of work

9.29 89.47 0.90 80.18

7.42 82.02 - 82.02

Cut
sheet
Made
2/11

Logan Ave 35th to Wobash FW
Stks for 6" AC Main

| | | | | |
|--------|-------|-------|-------|------------|
| | 11.45 | 55.64 | 14.19 | |
| 0+60 | 0.93 | 53.70 | 3.17 | 52.47 48.0 |
| 1+00 | | | 2.1 | 51.3 46.6 |
| +27 ms | | | 3.5 | 49.9 49.5 |
| +50 | | | 4.6 | 48.8 44.9 |
| +73 ms | | | 5.4 | 48.0 48.0 |
| +91 ms | | | 6.5 | 46.9 47.3 |
| 2+00 | | | 6.6 | 46.8 43.0 |
| +25 mn | | | 7.4 | 46.0 46.0 |
| +33 ms | | | 7.9 | 45.4 46.0 |
| +50 | | | 8.7 | 44.7 40.9 |
| +75 mn | | | 9.8 | 43.6 42.8 |
| +83 ms | | | 10.2 | 43.2 43.3 |
| 3+00 | | | 11.0 | 42.4 38.6 |
| +23 ms | 0.63 | 41.53 | 12.50 | 40.90 40.7 |
| +27 mn | | | 1.4 | 40.1 40.4 |
| +50 | | | 2.8 | 39.7 34.0 |
| +62 mn | | | 4.7 | 36.8 37.5 |
| +87 ms | | | 6.1 | 35.1 35.0 |

West
Williams X
Varonfakis +

5

2/19/55 SUNNY + WARM

SE Top FH 35th + National

C4 ⁵ Begin work

C4 ⁷

C0 ⁴

C3 ⁹

C0 ⁰

F0 ⁴

C3 ⁸

C0 ⁰

F0 ⁶

C3 ⁸

C0 ⁸

F0 ¹

C3 ⁸

C0 ²

F0 ³

C4 ⁷

F0 ⁷

C0 ⁴

LOGAN AVE. CONT.

41.53.

2/14/55

| | | | | | | |
|--------------|-------|-------|-------|------|--------|---------------------|
| 4+00 | | 7.7 | 33.8 | 29.4 | C4 | <u>4</u> |
| | 0.66 | | | | | <u>1</u> |
| +32 m N | 29.75 | 12.44 | 29.09 | 30.0 | F0 | <u>2</u> |
| +50 | | 1.9 | 27.9 | 23.7 | C4 | <u>4</u> |
| +75 m N | | 6.2 | 23.6 | 25.0 | F1 | <u>4</u> |
| +84 m S | | 6.3 | 23.5 | 24.0 | F0 | <u>5</u> |
| +99 m N | | 8.4 | 21.4 | 22.0 | F0 | <u>6</u> |
| 5+00 | | 8.0 | 21.8 | 18.0 | C3 | <u>8</u> |
| +19 m S | | 10.0 | 19.8 | 19.7 | C0 | <u>1</u> |
| +38 m N | | 12.5 | 17.3 | 17.5 | F0 | <u>2</u> |
| +50 F.H. TEE | | 13.3 | 16.5 | 12.0 | C4 | <u>5</u> |
| +50 (5) B.M. | | 13.3 | 16.5 | 16.0 | C0 | <u>5</u> |
| | | 7.81 | 21.94 | | 221.88 | Turn on IR Prop Cor |

12.48 49.46 36.98 SE BP 36th + National

3.51 52.59 038 49.08

7.91 44.68 = 44.19 Top FH SE Cor 25th + National

0.83 50.12 330 49.29

6.19 43.51 1280 37.32

6.52 36.99 = 36.99

CUT
SHEET
MADE

2/17

Island 56 36th to 300' west
Stks for 6" AC Main

| | 5.01 | 125.93 | 120.92 |
|------------|------|--------|---------|
| 0+09 | 4.4 | 121.5 | 117.8 |
| +41 FH Tee | 4.2 | 121.7 | 117.4 |
| +41 (5) FH | 5.7 | 120.2 | 120.6 |
| +50 | 4.1 | 121.8 | 117.2 |
| 1+00 | 5.1 | 120.8 | 116.4 |
| +50 | 5.6 | 120.3 | 115.7 |
| +68 ms | 7.2 | 128.7 | 118.7 |
| 2+00 | 7.8 | 118.1 | 115.0 |
| +18 mn | 4.8 | 121.1 | 119.0 |
| +50 | 8.2 | 117.7 | 114.2 |
| +90 mn | 5.2 | 120.7 | 117.5 |
| +95 | 7.9 | 118.0 | 113.4 |
| | 5.01 | 120.92 | =120.92 |

West
Williams +
Yarontakis +

7

2/15/55 - HAZY + WARM
Sec 892 Page 13

on cone man 77' North of south prop line

Begin work

C3 $\frac{7}{3}$

C4 $\frac{3}{4}$

F0 $\frac{4}{6}$

C4 $\frac{6}{4}$

C4 $\frac{4}{6}$

C4 $\frac{6}{0}$

C0 $\frac{1}{1}$

C3 $\frac{1}{5}$

C2 $\frac{1}{2}$

C3 $\frac{5}{2}$

C3 $\frac{2}{6}$

C4 $\frac{6}{6}$

Cut
Sheet
Made
2/17

Maple Court + 30th St
Stks for A" AC Main

| | | | |
|--------------|-------|--------|-------------------|
| 20th St | 1.92 | 288.78 | 286.85 |
| 670+00 North | 6.63 | 286.99 | 8.92 279.86 276.2 |
| 670+00 East | | 7.0 | 279.5 276.2 |
| +50 | | 5.9 | 280.6 276.5 |
| 1+00 | | 5.2 | 281.3 277.0 |
| +50 | | 3.7 | 282.8 278.2 |
| +95 | | 2.3 | 284.2 280.3 |
| Maple Court | 11.79 | 291.60 | 6.68 279.81 |
| 0+75 | | 10.0 | 281.6 277.6 |
| +91 mn | | 8.6 | 283.0 283.0 |
| 1+00 | | 8.0 | 283.6 279.3 |
| +10 ms | | 7.1 | 284.5 284.3 |
| +25 | | 6.3 | 285.3 281.0 |
| +29 ms | | 6.1 | 285.5 285.5 |
| +33 mn | | 5.9 | 285.7 285.5 |
| +50 | | 5.0 | 286.6 283.0 |
| +66 ms | | 4.3 | 287.3 287.1 |
| 2+00 | | 3.5 | 288.1 284.0 |
| +13 ms | | 3.5 | 289.1 288.2 |
| +41 | | 2.8 | 288.8 284.9 |
| | | 4.72 | 286.88 = 286.85 |

West
Williams X
Varonfakis P

8

2/26/55 RAIN 4:00 P.M.
See FB 877 Page 10

| | | | |
|-------------------------|----------|-------|---------------------|
| Top South edge sewer MH | | | |
| C3 | <u>7</u> | | 290.79 |
| C3 | <u>3</u> | | 286.85 |
| C4 | <u>1</u> | 277.0 | C3 <u>6</u> |
| C4 | <u>3</u> | 278.0 | C3 <u>3</u> |
| C4 | <u>6</u> | 279.2 | C3 <u>6</u> |
| C3 | <u>9</u> | | End of 30th St Line |
| C4 | <u>0</u> | | |
| C0 | <u>0</u> | | |
| C4 | <u>3</u> | | |
| C0 | <u>2</u> | | |
| C4 | <u>3</u> | | |
| C0 | <u>0</u> | | |
| C0 | <u>2</u> | | |
| C3 | <u>6</u> | | |
| C0 | <u>2</u> | | |
| C4 | <u>1</u> | | |
| F0 | <u>1</u> | | |
| C3 | <u>9</u> | | End of Work |

Out sheet made

Alley BIK 3
So. of Lewis East of Fourth
Stks for 6" AO Main

West
Williams x
Yuroofakis +

9

2/18/55 PARTLY CLOUDY

| | | | |
|---------------|--------|--------|--------|
| | 1.92 | 285.04 | 283.12 |
| 6 0+39 | 5.3 | 279.7 | 275.7 |
| 65 +50 | 5.1 | 279.9 | 276.3 |
| +76 mW | 3.1 | 281.9 | 281.6 |
| 1+00 | 2.5 | 282.5 | 278.7 |
| +09 mW | 1.8 | 283.2 | 283.0 |
| +50 | 1.0 | 284.0 | 279.9 |
| +54 mW | 0.8 | 284.2 | 284.3 |
| 0 5.94 | 290.73 | 0.25 | 284.79 |
| +94 mW | 5.5 | 285.2 | 285.0 |
| 1 2+00 | 5.9 | 284.8 | 281.0 |
| +34 mW | 5.3 | 285.4 | 285.4 |
| +50 | 5.4 | 285.3 | 281.4 |
| +55 mE | 5.1 | 285.6 | 285.4 |
| +75 mW | 5.0 | 285.7 | 285.8 |
| 3+10 | 5.2 | 285.5 | 281.8 |
| +06 J 22° 41' | 5.2 | 285.5 | 281.7 |
| +15 mW | 5.0 | 285.7 | 285.8 |
| +29 J 30° 11' | 5.3 | 285.4 | 281.3 |
| +50 | 5.9 | 284.8 | 280.9 |

| | |
|----------------------|---|
| SW CP Fourth + Lewis | 0 |
| C4 | 6 |
| C3 | 3 |
| C0 | 8 |
| C3 | 2 |
| C0 | 1 |
| C4 | 1 |
| F0 | 1 |
| C0 | 2 |
| C3 | 8 |
| C0 | 0 |
| C3 | 9 |
| C0 | 2 |
| F0 | 1 |
| C3 | 7 |
| C3 | 8 |
| F0 | 1 |
| C4 | 1 |
| C3 | 9 |

Begin Work

Alley BIK 3 cont

10

290.73

3+79

~~3+80~~

61 284.6280.3

C4³

2/18/55

end of work

120 284.98 6.95 283.78

1.87 283.11 =

283.12

Out sheet
made

Neale St Pringle to Keating

| | | |
|-------------|--------|--------------|
| 11.06 | 248.45 | 237.39 |
| 10.41 | 258.23 | 0.63 217.82 |
| 0-07 FH Tee | 4.2 | 254.0 250.0 |
| 0+00 | 4.0 | 254.2 250.1 |
| +50 | 4.2 | 254.0 250.0 |
| 1+00 | 9.4 | 248.8 244.7 |
| 0.29 | 245.65 | 12.87 245.36 |
| +50 | 1.1 | 244.6 239.6 |
| +75 | 4.0 | 241.7 236.2 |
| 2+00 | 10.4 | 235.3 230.8 |
| 0.28 | 233.07 | 12.91 232.74 |
| +25 | 4.0 | 229.0 224.2 |
| +50 | 10.3 | 222.7 218.0 |
| 0.85 | 221.81 | 12.06 220.96 |
| 0.47 | 210.18 | 12.10 209.71 |
| 3+00 | 2.1 | 208.1 202.3 |
| +125 | 5.9 | 204.3 197.5 |
| 0.14 | 197.27 | 13.05 197.13 |
| +47 FH Tee | 1.9 | 195.4 191.4 |
| +43 ② 2 FH | + 1.1 | 198.4 195.4 |

West
Williams &
Varon Patrick

2/21/55 CLEAR - WINDY
500 FB 980 P 27

SW FH Torr + Pringle

| | | |
|----|---------------|------------|
| C4 | $\frac{0}{1}$ | Begin work |
| C4 | $\frac{1}{0}$ | |
| C4 | $\frac{0}{1}$ | |
| C4 | $\frac{1}{0}$ | |
| C5 | $\frac{0}{5}$ | |
| C5 | $\frac{5}{5}$ | |
| C4 | $\frac{5}{5}$ | |
| C4 | $\frac{8}{7}$ | |
| C4 | $\frac{7}{8}$ | |
| C5 | $\frac{8}{8}$ | |
| C6 | $\frac{8}{8}$ | |
| C4 | $\frac{0}{0}$ | |
| C3 | $\frac{0}{0}$ | |

Neale St Cont

197.27

3+50 3.1 194.2 190.0

+80 Top 4.2 193.1 187.8

Foot
+80 Top (3) 4.6 192.7 187.8

4+00 6.8 190.5 186.4

+16 8.3 189.0 185.3

2.76 194.51 =

C4 $\frac{2}{1}$

C5 $\frac{3}{1}$

C4 $\frac{2}{1}$

C4 $\frac{1}{1}$

C3 $\frac{2}{1}$

191.94

2/21/55

End of Work

TOM SW city eng Hub

12

Out show
Made

Torrance St Pringle to 230' Wnd

Stks for 6" AC Main (4)

West
Williams X
Varonfakis &

13.

2/21/55

CLEAR WINDY

| | | |
|---------|--------|-------------|
| 7.28 | 244.67 | 237.39 |
| 0+00 | 7.9 | 236.8 232.8 |
| +50 | 6.6 | 238.1 233.7 |
| 1+00 | 2.2 | 242.5 237.9 |
| +25 | 0.7 | 244.0 239.2 |
| +50 | 0.6 | 244.1 239.8 |
| +75 | 1.1 | 243.6 239.0 |
| +78 mnd | 1.7 | 243.0 242.8 |
| 2+00 | 2.6 | 242.1 237.0 |
| +03 mE | 2.7 | 242.0 241.4 |
| +27 mE | 5.4 | 239.3 239.2 |
| +27 mW | 6.1 | 238.6 238.8 |
| +30 | 5.5 | 239.2 234.7 |
| | 7.28 | 237.39 = |

SW EN Torrance & Pringle

C4 ⁰ Begin work

C4 ⁴

C4 ⁶

C4 ⁸

C4 ³

C4 ⁴

C4 ²

C5 ¹

C0 ⁶

C0 ¹

F0 ²

C4 ⁵

end of work

237.39

Out sheet
Made

Buy 56 Pringle to Keating
stks for 6" AC Main

West X
Williams
Varonakis +

14

2/21/35

See FB 957 P 54

Top FH SW Cor Buy + Pringle

1.92 200.38 198.46
0+35 3.8 196.6 193.4
+50 4.1 196.3 193.0
1+00 5.4 195.0 191.4
+09 MW 6.0 194.4 194.3
+50 8.3 192.1 186.0

C3 $\frac{2}{3}$
C3 $\frac{6}{1}$
C3 $\frac{1}{1}$
C0 $\frac{1}{1}$
C6 $\frac{1}{1}$

Begin Work

0.17 187.92 1263 187.75
RGT
1+75 1.1 186.8 181.0
+75 ME 186.5 187.5
2+00 9.9 178.0 174.0

C5 $\frac{8}{0}$
C4 $\frac{0}{F 10}$

186.8
4.9
191.7

1.14 176.78 1228 175.64
+125 2.8 174.0 161.0
+11 ME 1.2 175.6 165.0
+17 MW 3.8 173.0 164.0
+50 0.95 164.92 12.81 163.97 153.2
2+72 MW 7.2 157.7 152.9
+75 7.3 157.6 148.0

C13 $\frac{0}{6}$
C10 $\frac{6}{0}$
C9 $\frac{0}{8}$
10 $\frac{8}{8}$
C4 $\frac{8}{6}$
C9 $\frac{6}{8}$

moved to 1+75

0.36 152.84 1244 152.48
3+00 1.3 151.5 143.0
+25 3.8 149.0 137.2

C8 $\frac{5}{8}$
C11 $\frac{8}{8}$

GUY ST. CONT.

15

152.84

2/21/55

1.41 141.90 12.35 140.99

3+00

5.1 136.8 131.6

C 5 ²

end of work

4.78 137.12 = 137.09

500 FB 807 1410 52
Cor. Cond. Stop 1" up 75 ± RL 2191

136.8

Linwood St
Mission Hills Blvd to
Kooting

Stks for 6" AC Main

169.87
6.46 169.50 163.41
~~163.04~~

| | | | |
|--------|------|-----------------------------|-------------------------------------|
| 1+03 | 16.6 | 153.3 | 151.0 |
| +50 | 8.1 | 141.8 | 155.0 |
| +64 MW | 8.8 | 161.1 | 160.1 |
| +64 ME | 5.3 | 164.6 | 161.0 |
| 2+00 | 7.2 | 162.7 | 157.4 |
| +50 | 7.8 | 162.1 | 159.3 |
| +52 MW | 7.8 | 162.1 | 163.8 |
| +96 ME | 3.1 | 166.8 | 166.3 |
| 3+00 | 6.6 | 163.3 | 159.8 |
| +07 ME | 2.5 | 167.9 | 166.6 |
| +42 MW | 5.6 | 164.3 | 165.0 |
| +50 | 6.5 | 163.4 | 160.0 |
| 4+00 | 5.2 | 164.7 | 160.2 |
| 1 | 6.08 | 173.71 173.39 | 2.24 167.63 167.26 |
| +41 ME | 2.6 | 171.1 | 167.4 |
| +50 | 5.5 | 168.2 | 160.1 |
| +57 ME | 2.1 | 171.6 | 167.5 |
| 5+00 | 5.7 | 168.0 | 160.0 |

WEST
WILLIAMS X
VARONFAKIS P

16..

2/28/55

1st NW Cor Pringle + Linwood

C2 $\frac{3}{8}$ Begin work

C6 $\frac{0}{0}$

C1 $\frac{6}{6}$

C3 $\frac{3}{3}$

C5 $\frac{8}{8}$

C2 $\frac{7}{7}$

F1 $\frac{5}{5}$

C0 $\frac{5}{5}$

C3 $\frac{8}{8}$

C0 $\frac{7}{7}$

F0 $\frac{4}{4}$

C3 $\frac{5}{5}$

C4 $\frac{4}{4}$ end of work

C4 $\frac{5}{5}$ Begin work

C3 $\frac{7}{7}$

C8 $\frac{1}{1}$

C4 $\frac{1}{1}$

C8 $\frac{0}{0}$

164.32
5.41
169.73
6.37
163.36

LINWOOD ST. CONT.

173.71
173.39

2/28/55

17

| | | | | | | |
|---------|------|-----------------------------|-----------------------------|-------|-----|-----------------|
| 5+01 MW | | 6.3 | 167.4 | 166.1 | C1 | ³ |
| +34 ME | | 5.2 | 168.5 | 166.4 | C1 | ⁹ |
| +25 | | 6.6 | 167.1 | 160.0 | C7 | ¹ |
| +41 MW | | 7.5 | 165.2 | 165.1 | C1 | ¹ |
| +50 | | 7.9 | 165.8 | 158.8 | C7 | ⁰ |
| +53 ME | | 6.3 | 167.4 | 165.5 | C1 | ⁹ |
| +65 MW | | 9.0 | 164.7 | 163.2 | C1 | ⁵ |
| 6+00 | 122 | 162.66 162.29 | 161.44 161.07 | 153.4 | C8 | ⁰ |
| +23 MW | | 4.9 | 157.8 | 153.7 | C4 | ¹ |
| +25 | | 6.7 | 156.0 | 147.7 | C8 | ³ |
| +37 ME | | 9.2 | 153.5 | 150.3 | C3 | ² |
| T.P. | 0.56 | 153.92 153.55 | 153.36 152.99 | | | |
| +50 | | 1.3 | 152.6 | 142.0 | C10 | ⁶ |
| +73 MW | | 6.5 | 147.4 | 141.4 | C6 | ⁰ |
| +75 | | 8.1 | 145.8 | 136.3 | C9 | ⁵ |
| T.P. | | 141.75 | 141.29 | | | |
| +86 ME | 0.46 | 141.38 | 140.92 | 137.8 | C3 | ⁵ |
| 7+00 | | 7.1 | 134.7 | 131.0 | C3 | ⁷ |
| T.P. | 6.80 | 139.30 138.93 | 132.50 132.13 | | | |
| | | 2.14 | 137.16 = 137.09 | | | = .07 |
| | | | 136.79 = 137.09 | | | = .30 (PAGE 15) |

in back of #437 ME
Turn on Top Cobble Wall

(SEE PAGE 18 FOR CHECK LEVELS)

CHECK LEVELS GUY + PRINGLE TO
KEATING + PRINGLE

| | | | |
|-----------------|------|--------|-----------------|
| B.M. | 0.91 | 199.37 | 198.46 |
| T.P. | 1.07 | 188.07 | 12.37 187.00 |
| T.P. | 0.96 | 176.31 | 12.72 175.35 |
| T.P. | 4.35 | 172.38 | 8.28 168.03 |
| CHECK T.B.M. | | 8.97 | 163.41 = 163.04 |

WEST
WILLIAMS X
VARONFAKIS P

18

F.B. 857-P. 54

TOP FH S.W. COR GUY + PRINGLE

L+T N.W. COR. PRINGLE + LINWOOD

CUT SHEET
MADE 3/7

Longbranch St Abbott to Spray
Spray St Longbranch to W Pt Longbranch
5ths for 6" AC Main

| B. | 3.54 | 6.85 | 3.31 |
|------------|------|------|--------------|
| T. 0+20 | | | 3.1 3.8 -0.3 |
| T. +50 | | | 3.8 3.1 -0.5 |
| T. 1+00 | | | 4.8 2.1 -0.8 |
| CH. +15 mn | | | 4.4 2.5 2.8 |
| T. +27 ms | | | 4.0 2.9 3.6 |
| +50 | | | 5.1 1.8 -1.0 |
| +71 mn | | | 4.5 2.4 2.8 |
| +64 ms | | | 4.3 2.6 3.3 |
| 2+00 | | | 5.0 1.9 -1.2 |
| +08 mn | | | 4.8 2.1 2.9 |
| +30 mn | | | 4.5 2.4 2.9 |
| +37 ms | | | 4.6 2.3 3.1 |
| +50 | | | 4.9 2.0 -1.4 |
| +72 ms | | | 4.6 2.3 3.2 |
| +94 mn | | | 3.4 3.5 3.2 |
| 3+00 | | | 4.4 2.5 -0.9 |
| +16 ms | | | 1.9 5.0 3.6 |
| +16 mn | | | 1.6 5.3 3.3 |

West.
Williams X
Varonfakis &

3/2/55

BM NE BP Longbranch & Abbott

| | |
|------------------|------------|
| C 4 ¹ | Begin Work |
| C 3 ⁶ | |
| C 2 ⁹ | |
| F 0 ³ | |
| F 0 ⁷ | |
| C 2 ⁸ | |
| F 0 ⁴ | |
| F 0 ⁷ | |
| C 3 ¹ | |
| F 0 ⁸ | |
| F 0 ⁵ | |
| F 0 ⁸ | |
| C 3 ⁴ | |
| F 0 ⁹ | |
| C 0 ³ | |
| C 3 ⁴ | |
| C 1 ⁴ | |
| C 2 ⁰ | |

| | 4.85 | | |
|-------------|------|------|-----------|
| 3+49 mN | 1.5 | 5.4 | 3.4 |
| +45 ms | 3.4 | 3.5 | 3.8 |
| +50 | 3.8 | 3.1 | -0.2 |
| +86 ms | 1.1 | 5.8 | 4.2 |
| +92 mN | 1.4 | 5.5 | 3.5 |
| | 4.38 | 7.59 | 3.64 3.21 |
| 4+00 | 4.05 | 3.57 | -0.4 |
| +50 | 4.2 | 3.4 | -0.7 |
| +64 ms | 2.9 | 4.7 | 3.8 |
| +73 mN | 5.1 | 2.5 | 3.1 |
| 5+00 | 4.8 | 2.8 | -1.0 |
| +50 | 5.7 | 1.9 | -1.1 |
| 6+00 | 7.4 | 0.2 | -3.2 |
| +50 | 7.2 | 0.4 | -3.2 |
| +80 β | 7.8 | -0.2 | -3.2 |
| 0+75 | 7.3 | 0.3 | -3.2 |
| +50 | 7.4 | 0.2 | -3.2 |
| +63 FH TUC | 7.5 | 0.1 | -2.8 |
| +63 (5) FH | 7.5 | 0.1 | 2.2 |
| 1+00 | 5.7 | 1.9 | -1.6 |
| +34 | 5.9 | 1.7 | -2.0 |
| | 4.28 | 3.31 | = 3.31 |

C₂⁰F₀³C₃³C₁⁶C₂⁰C₃⁹C₄¹C₀⁹F₀⁶C₃⁸C₃⁰C₃⁴C₃⁶C₃⁰C₃⁵C₃⁴C₂⁹F₂¹C₃⁵C₃⁷

3/2/55

NOT 54

Quinnac St 30th to 31st

5Hk5 for 6" AC Main

5Hk 3+75 to 5+25 replace

10.53 312.59 302.06

1.93 311.99 253 310.06

0.58 304.29 8.28 303.71

3+75 1.7 302.6 299.0

4+00 0.37 291.88 12.78 291.51 287.5

+25 11.6 280.3 276.0

0.73 280.12 12.49 279.39

+50 0.46 268.60 11.98 268.14 263.0

+75 11.3 257.3 254.8

1.80 259.00 11.40 257.20

5+00 4.8 254.2 247.0

+25 6.8 252.2 247.0

6.7 252.3 +5.0

West
Williams X
Varonfokris 4

21

3/3/55

SWBP 30th + Redwood 51

C3 ⁶

C4 ⁰

C4 ³

C5 ¹

C2 ⁵

C7 ²

C5 ²

247.1

Cut sheet
made 3/19/55

33rd St Date to Elm
54Ks for 6" AC Main

4.91 231.44 226.53

9.89 240.67 0.66 230.78

0+80 7.0 233.7 230.0

1+00 4.3 236.4 229.4

+46 ME 6.6 234.1 230.3

+50 6.4 234.3 227.2

+63 MW 7.4 233.3 229.6

+75 8.4 232.3 226.0

2+00 131 229.83 12.5 228.52 224.1

+01 ME 2.1 227.7 226.2

+40 ME 4.3 225.5 221.8

+50 5.1 224.7 220.4

+62.5 6.5 223.3 219.4

+98 MW 11.2 218.6 213.0

10.27 238.22 1.88 227.95

1.43 231.61 8.04 230.18

0.95 228.90 5.07 226.54 = 226.53
227.95

2+75 0.59 217.91 12.08 216.82 213.9

West

Williams X

Varonfakus 3/4 155 Cloudy

NW 131 Banora Fl + Elm

C32 Begin work

C70

C3⁸

C74

C3⁷

C63

C44

C1⁵

C3⁷ 99

C43

C39

C5⁶

1719 NW 01X 130X
Turn on one block flower

226.53

C31

33RD ST CONT.

73

217.41

510
206.7
10

| | | | | | |
|-------|------|--------|-------|--------|-------|
| 3+00 | | 10.7 | 206.7 | 204.0 | 0 23 |
| | 0.71 | 205.78 | 12.64 | 204.77 | |
| +25 | | 6.7 | 198.8 | 193.6 | 0 52 |
| | 1.09 | 194.03 | 12.04 | 192.94 | |
| +50 | | 8.7 | 190.3 | 184.1 | 0 6 2 |
| +62.5 | | 7.0 | 187.0 | 180.0 | 0 7 0 |
| +75 | | 7.9 | 186.1 | 180.0 | 0 6 1 |
| 4+09 | | 6.2 | 187.8 | 185.0 | 0 2 8 |

End of work

12.61 205.88 0.76 198.27

12.79 218.42 0.25 205.63

12.05 230.06 0.31 218.11

361 226.55 = 226.53

Dudley St
Silvergate to Cotaling

| | | |
|------------|---------------------------------------|--------|
| 12.70 | 307.92 | 295.22 |
| 0+20 | ⁶ 12.7 | 295.2 |
| +50 | ³ 11.4 | 296.5 |
| +71 FH Tee | 10.1 | 297.8 |
| +77 OPEN | 8.3 | 299.6 |
| 1+00 | ^{7.8} 8.0 | 299.9 |
| +50 | ^{4.1} 4.3 | 303.6 |
| +86 ms | ^{2.1} 2.0 | 305.9 |
| 2+00 | ^{2.1} 1.9 | 306.0 |
| +50 | 304.3 ^{0.27} 0.19 | 307.73 |
| +92 ms | 1.8 | 309.0 |
| 3+00 | 2.2 | 308.6 |
| +00 mn | <u>1.7</u> | 309.1 |
| +50 | 2.8 | 308.0 |
| A+00 | 4.5 | 306.3 |
| +12 ms | 4.5 | 306.3 |
| +16 mn | 5.3 | 305.5 |
| +50 | 6.8 | 304.0 |
| +70 ms | 7.5 | 303.3 |

West
Williams
Varonakis

24

3/1/55

prolonged east side
L+T on east side of Silvergate + Dudley

Begin Work

DUDLEY ST. CONT.

25

310.77

3/4/55

| | | | |
|------------|--------|--------|--------------|
| 5+00 | 9.3 | 301.5 | |
| +13 MN | 10.7 | 300.1 | |
| 267 | 300.85 | 12.59 | 298.18 |
| +50 | 1.7 | 299.2 | |
| +66 FN TUG | 2.8 | 298.1 | |
| +66 (6) FN | 2.1 | 298.8 | |
| 4+00 | 4.8 | 296.1 | |
| +31 ms | 5.7 | 295.2 | |
| +31 MN | 8.0 | 292.9 | |
| +50 | 8.2 | 292.7 | |
| 7+00 | 11.8 | 289.1 | |
| +23 ms | 12.8 | 288.1 | |
| 0.95 | 289.67 | 12.13 | 288.72 |
| +31 MN | 3.8 | 285.9 | |
| +50 | 3.9 | 285.8 | |
| +78 M.S. | 5.0 | 284.7 | |
| 8+00 | 7.6 | 282.1 | |
| +50 | 10.1 | 279.6 | |
| T.P. | 2.04 | 279.25 | 12.46 277.21 |

DUDLEY ST. CONT.

179.25

3/4/55

9.00
T.P.
+50

3.2 276.1

6.32 272.93

[Handwritten signature]

CUT
SHEET MADE
3/7

Dudley St
Silvergate to Catalina

STKS For 6" A.C. MAIN

| | | | |
|------------|--------|--------|--------------|
| 12.99 | 308.21 | 295.22 | |
| 0+20 | 12.9 | 295.3 | 291.6 |
| +50 | 11.6 | 296.6 | 292.0 |
| +71 FH Tee | 10.3 | 297.9 | 293.4 |
| +71 (5) FH | 9.5 | 299.7 | 296.7 |
| 1+00 | 8.1 | 300.1 | 295.3 |
| +50 | 4.7 | 303.5 | 298.6 |
| +86 ms | 2.4 | 305.8 | 305.0 |
| 2+00 | 2.3 | 305.9 | 301.8 |
| +50 3.44 | 311.02 | 0.63 | 307.58 303.8 |
| +92 ms | 2.2 | 308.8 | 308.4 |
| 3+00 | 2.7 | 308.3 | 304.4 |
| +00 mN | 2.1 | 308.9 | 308.7 |
| +50 | 3.2 | 307.8 | 303.2 |
| 4+00 | 4.9 | 306.1 | 302.0 |
| +12 ms | 4.8 | 306.2 | 305.5 |
| +16 mN | 5.7 | 305.3 | 305.2 |
| +50 | 7.2 | 303.8 | 299.6 |
| +70 ms | 7.9 | 303.1 | 302.9 |

West
Williams +
Varroforkis +

27

3/7/55 SUNNY + WARM
Dudley Probes

LFT on east of Silvergate + C

C3 $\frac{1}{6}$ Begin work

C4 $\frac{5}{5}$

C4 $\frac{0}{8}$

C3 $\frac{8}{9}$

C4 $\frac{8}{8}$

C4 $\frac{1}{4}$

C0 $\frac{8}{9}$

C4 $\frac{4}{9}$

C3 $\frac{2}{6}$

C0 $\frac{1}{7}$

C4 $\frac{1}{2}$

C0 $\frac{6}{7}$

C4 $\frac{1}{1}$

C0 $\frac{1}{2}$

C4 $\frac{1}{7}$

C0 $\frac{1}{1}$

C0 $\frac{2}{2}$

C4 $\frac{2}{2}$

C0 $\frac{2}{2}$

Dudley St Cont

311.02

5+00 9.7 301.3 297.2

+13 MN 11.1 299.9 300.2

1.90 300.57 12.35 298.67

+50 1.5 299.1 294.6

+66 FNT80 2.7 297.9 293.6

46(5) FH 2.0 298.6 297.9

6+00 4.7 295.9 291.3

+31 ms 5.6 295.0 293.5

+31 MN 7.8 292.8 292.6

+50 8.1 292.5 287.8

7+00 11.6 289.0 284.4

+73 ms 12.6 288.0 287.2

0.92 288.89 12.60 287.97

+31 MN 3.1 285.8 285.7

+50 3.3 285.6 281.1

+78 ms 4.3 284.6 283.5

8+00 6.9 282.0 277.6

+50 9.5 279.4 274.3

1.9.4 278.65 12.18 276.71

317/55

C4 ¹/₃

F0

C4 ⁵/₃

C4 ³/₇

C0 ⁷/₆

C4 ⁵/₅

C1 ²/₇

C0 ⁷/₆

C4 ⁶/₈

C0

C0 ¹/₅

C4 ¹/₅

C1 ¹/₄

C4 ⁴/₁

C5

Dudley St
Cont

278.65

3/7/55

9.00

+25

+50

10.89

283.68

2.8

4.9

5.86

275.9271.7

2738 269.0

272.79269.0

C4 2

C4 8

C3 8

11.71

295.05

0.34

283.34

12.78

307.74

0.09

294.96

1.77

309.10

0.41

307.33

5.39

302.27

12.22296.88

7.04 295.23

= 295.22

BEECH ST FELTON To
GREGORY.
STKS FOR METERS

| | | | |
|-----------------|------|--------|---------|
| T.B.M. | 6.89 | 220.82 | 213.93 |
| 2+21 M.S. | 8.5 | 212.3 | 211.8 |
| 3+40 M.E. | 4.4 | 216.4 | 210.3 |
| CHECK T.B.M. | 6.89 | 213.93 | =213.93 |

29TH ST IMPERIAL To COMMERCIAL

| | | | |
|---------------|------|-------|------------|
| B.M. | 4.76 | 76.81 | 72.05 |
| T.P. | 5.98 | 75.27 | 75.269.29 |
| 3+75 | 5.4 | 69.9 | 69.2 |
| T.P. | 5.37 | 76.69 | 3.95 71.32 |
| CHECK B.M. | 4.63 | 72.06 | =72.05 |

WEST
WILLIAMS X
VARONFAKIS †

30

3/9/55

SUNNY + WARM

FB. 892 PAGE 7 (7' LIT. S.E. FELTON)
BEECH

CO 5

CO 6¹ ON GREGORY

S.W.B.P. 29TH IMPERIAL

CO 7 F.H. (5)

GREENE ST + SOTO

LOWERING OF MAIN ON GREENE

| | | | |
|---------------|-------|-------|----------------------|
| B.M. | 1.47 | 35.15 | 33.68 |
| T.P. | 12.24 | 44.39 | 3.00 32.15 |
| T.P. | 12.53 | 56.84 | 0.08 44.31 |
| T.P. | 7.72 | 62.83 | 1.73 55.11 |
| 0-14 | | 8.0 | 54.8 53.3 |
| | | | 55.2 |
| 0+34 | | 4.1 | 58.7 55.6 |
| | | | 55.1 |
| +39 | | 3.7 | 59.1 55.6 |
| | | | 55.1 |
| +46 | | 3.3 | 59.5 55.9 |
| | | | 55.2 |
| +55 | | 2.55 | 60.2 56.2 |
| | | | 55.7 |
| +67 | | 1.8 | 61.0 56.6 |
| T.P. | 1.09 | 51.73 | 12.19 50.64 |
| T.P. | 1.46 | 40.17 | 13.02 38.71 |
| T.P. | 4.94 | 35.58 | 9.53 30.64 |
| CHECK B.M. | | 1.90 | 33.68 = 33.68 |

| | | | |
|--------|------|-------|---------------|
| T.B.M. | 8.23 | 63.34 | 55.11 |
| 0+46 | | 8.28 | 55.06 |
| | | 8.23 | 55.11 = 55.11 |

WEST
WILLIAMS T
VARONFAKIS P

31

3/9/55

S.W.B.P. ETIWANDA + CASTELAR ST

0+00 IS W. PROP. LINE SOTO
(RADIUS HUB N.W. COR) ON TOP PIPE

| | | |
|---|------|-----------|
| C 1 ⁵ | 9.79 | 53.04 |
| C 3⁵ C 3 ⁵ | 6.24 | 56.59 |
| C 3⁹ C 4 ⁰ | 6.02 | 56.81 TEE |
| C 3⁴ C 4 ⁴ | 5.65 | 57.18 TEE |
| C 4⁰ C 5 ⁰ | 5.10 | 57.73 |
| C 4⁴ C 5 ³ | 4.40 | 58.43 |

RADIUS HUB N.W. COR. GREENE + SOTO
10' LT. TOP A.C. MAIN ON SOTO

CUT SHEET
MADE 3/15

GALVESTON. GARDENA TO ORTEN
STKS. FOR 6" A.C. MAIN

| | | | | |
|----------|-------|-------|-------|------------|
| B.M. | 11.69 | 62.94 | 51.25 | |
| 0+40 | | | 14.2 | 48.7 452 |
| +75 | | | 13.0 | 49.9 46.0 |
| 1+00 | | | 12.2 | 50.7 46.6 |
| +05 | | | 12.0 | 50.9 46.7 |
| +05 | | | 11.7 | 51.2 50.4 |
| +36 M.W. | | | 9.5 | 53.4 52.1 |
| +50 | | | 10.7 | 52.2 48.5 |
| 2+00 | | | 8.5 | 54.4 51.2 |
| +50 | | | 5.6 | 57.3 54.2 |
| +53 M.W. | | | 5.0 | 57.9 58.5 |
| 3+00 | | | 2.0 | 60.9 57.5 |
| T.P. | 12.68 | | | |
| +19 M.W. | 75.19 | | 0.43 | 62.51 63.0 |
| +50 | | | 10.7 | 64.5 60.8 |
| +70 M.W. | | | 8.6 | 66.6 66.6 |
| 4+00 | | | 6.8 | 68.4 64.1 |
| +50 | | | 2.8 | 72.4 67.6 |
| +68 M.W. | | | 1.35 | 73.8 73.4 |
| T.P. | 12.90 | 87.72 | 0.37 | 74.82 |

WEST.
WILLIAMS
VARONFAKIS†
MARTEL X
KELLHOFFER

3/15/55 CLOUDY

32

N.W.I.P. GARDENA AVE + GALVESTON ST.

C3⁵

C3⁹

C4¹

C4²

F.H. TEE

C0⁸

F.H. (51)

C1³

C3⁷

C3²

C3¹

F0⁶

C3⁴

F0⁵

C3⁷

C0⁰

C4³

C4⁸

C0⁴

GALVESTON CONT.

33

87.72

3/15/55

| | | | | | | |
|----------|------|-------|------|-------|-----------------|----------|
| 5+00 | | 12.3 | 75.4 | 71.0 | C4 ² | |
| +25 | | 11.3 | 76.4 | 72.1 | C4 ³ | |
| +50 | | 10.1 | 77.6 | 73.3 | C4 ³ | |
| 6+00 | | 8.0 | 79.7 | 74.8 | C4 ⁹ | F.H. TEE |
| +00 | | 8.8 | 78.9 | 78.8 | C0 ¹ | F.H. (5) |
| +25 | | 6.8 | 80.9 | 75.4 | C5 ⁵ | |
| +50 | | 6.2 | 81.5 | 75.8 | C5 ² | |
| +70 M.E. | | 4.8 | 82.9 | 80.4 | C2 ⁵ | |
| +84 M.W. | | 6.7 | 81.0 | 80.7 | C0 ³ | |
| 7+00 | | 4.0 | 83.7 | 77.3 | C6 ⁴ | |
| +41 M.W. | | 4.2 | 83.5 | 82.0 | C1 ⁵ | |
| +50 | | 1.7 | 86.0 | 78.0 | C8 ⁰ | |
| T.P. | | | | | C7 ⁹ | |
| 8+00 | 3.21 | 90.02 | 0.91 | 86.81 | 78.9 | |
| +20 M.W. | | 5.3 | 84.7 | 82.9 | C1 ⁸ | |
| +50 | | 3.5 | 86.5 | 78.8 | C7 ⁷ | |
| +76 M.W. | | 6.5 | 83.5 | 82.8 | C0 ⁷ | |
| 9+00 | | 4.4 | 85.6 | 78.9 | C6 ⁷ | |
| +41 M.W. | | 8.4 | 81.6 | 82.2 | F0 ⁶ | |
| +50 | | 6.4 | 83.6 | 78.2 | C5 [±] | |

GALVESTON CONT.

3A

90.02

3/15/55

WINDY +
CLOUDY

| | | | | |
|---------------|------|-------|-------|-----------------------------------|
| 10+00 | 6.8 | 83.2 | 77.6 | C5 ⁶ |
| +35 M.W. | 9.5 | 80.5 | 81.0 | F0 ⁵ |
| +50 | 7.4 | 82.6 | 77.0 | C5 ⁶ |
| 11+00 | 8.5 | 81.5 | 76.4 | C5 ¹ |
| +50 | 10.3 | 79.7 | 75.9 | C3 ⁸ |
| +84 M.W. | 11.7 | 78.3 | 79.6 | F1 ³ |
| 12+00 | 11.5 | 78.5 | 75.7 | C2 ⁸ |
| +35 M.W. | 12.7 | 77.3 | 79.4 | F2 ¹ |
| +50 | 12.1 | 77.9 | 75.6 | C2 ³ |
| +75 | 11.5 | 78.5 | 75.5 | C3 ⁰ |
| +80 | | 79.4 | 79.5 | |
| +83 M.W. | 12.2 | 77.8 | 79.0 | F1 ² = F0 ¹ |
| 13+00 | 10.1 | 79.9 | 75.9 | C4 ⁰ |
| +16 | 8.4 | 81.6 | 76.2 | C5 ⁴ |
| T.P. | 2.03 | 83.89 | 8.16 | 81.86 |
| T.P. | 1.47 | 72.66 | 12.70 | 71.19 |
| T.P. | 1.48 | 61.30 | 12.84 | 59.82 |
| CHECK B.M. | | | 10.09 | 51.21 = 51.25 |

12+00 77.9
+ 9.0
86.9
12+80 (3) FH 7.5
79.4

86.9
7.1
79.8

78.9 (6) FH 6+00
+ 6.76
85.66 Top Pipe

7+82 6.56 79.1

10+72 8.47 77.19

8+76 7.22 83.44

LA SALLE ST. NASHVILLE TO EAST
TERMINUS. STKS. FOR 6" A.C. MAIN

WEST X
WILLIAMS
VARONFAKIS †

35

3/16/55 SUNNY + COOL

N.W.F.H. NASHVILLE + LA SALLE ST

| B.M. | 2.62 | 4.39 | 1.77 | |
|---------------|------|------|-----------------|-------------------|
| 0+35 | | | 4.8 - 0.4 - 4.2 | C 3 $\frac{8}{8}$ |
| +50 | | | 4.9 - 0.5 - 4.3 | C 3 $\frac{8}{8}$ |
| 1+00 | | | 4.6 - 0.2 - 4.5 | C 4 $\frac{3}{3}$ |
| +50 | | | 4.5 - 0.1 - 4.4 | C 4 $\frac{3}{3}$ |
| 2+00 | | | 4.5 - 0.1 - 4.4 | C 4 $\frac{3}{3}$ |
| +50 | | | 4.4 - 0.0 - 4.3 | C 4 $\frac{3}{3}$ |
| 3+00 | | | 4.1 0.3 - 4.2 | C 4 $\frac{5}{5}$ |
| +50 | | | 4.0 0.4 - 4.2 | C 4 $\frac{6}{6}$ |
| 4+00 | | | 3.8 0.6 - 4.1 | C 4 $\frac{7}{7}$ |
| +50 | | | 3.8 0.6 - 4.0 | C 4 $\frac{6}{6}$ |
| CHECK B.M. | 2.62 | 1.77 | = 1.77 | |

WATER METERS STKD.

PAC. BEACH DR LAMONT To

MORRELL

WEST ♀

WILLIAMS

VARONFAKIS X

36

3/21/55 CLEAR + WARM

| | | | |
|---------------|------|-------|---------------|
| B.M. | 2.83 | 37.93 | 35.10 |
| 0+67 M.N. | | 4.2 | 33.7 34.1 |
| 1+01 M.S. | | 5.6 | 32.3 33.0 |
| +25 M.S. | | 5.7 | 32.2 32.8 |
| +37 M.N. | | 4.2 | 33.7 33.4 |
| +81 M.N. | | 4.6 | 33.3 33.0 |
| 2+54 M.N. | | 5.5 | 32.4 32.2 |
| 3+37 M.N. | | 6.6 | 31.3 30.8 |
| +60 M.N. | | 7.7 | 30.2 30.2 |
| +91 M.S. | | 8.4 | 29.5 29.2 |
| 4+25 M.N. | | 9.8 | 28.1 27.9 |
| +37 M.S. | | 9.8 | 28.1 27.5 |
| +84 M.N. | | 12.6 | 25.3 24.9 |
| CHECK B.M. | 2.83 | | 35.10 = 35.10 |

N.E. I.T. (7) LAMONT + PACIFIC BEACH DR.

Fo ⁴

Fo ²

Fo ⁴

Co ³

Co ³

Co ²

Co ⁵

Co ⁰

Co ³

Co ²

Co ⁶

Co ⁴

out sheet
made
3/2/85

Titus St Pringle to Keating

2.12 143.91 141.29

6.56 139.24 10.73 132.68

0+35 6.2 133.0 128.6

+50 6.3 132.9 128.8

1+00^{ob} 5.6 133.6 129.5

+50^{ob} 4.1 135.1 130.2

2+00st 4.9 134.3 130.0

+50^{drive} 5.1 134.1 129.7

3+00^{ob} 5.3 133.9 128.9

+47^{ob} 6.0 133.2 128.3

+47^{ob} (57) ^{side walk} 5.8 133.4 133.2

+80 6.8 137.4 126.8

11.10 143.78 6.56 132.68

2.48 141.30 = 141.29

West
Williams &
Varonfakis &

Clear & Warm

37

3/24/55 Sunny & Warm

TP Water Met East 6+86 see page 17

Turn on end of east Eb Titus + Keating

C4 ⁴ begin work

C4 ¹

C4 ¹

C4 ²

C4 ³

C4 ⁴

C5 ⁰

C4 ⁹

C0 ²

C5 ⁶

End of Work

Or. sheet made
3/29/55

San Clemente
Tennyson to Voltaire
Stks for 6" AG

| | | | | |
|---------|------|--------|--------|--|
| | 166 | 128.30 | 126.64 | |
| 0+20 | 2.2 | 126.1 | 122.6 | |
| +50 | 2.7 | 125.6 | 122.0 | |
| 1+00 | 6.0 | 122.3 | 118.6 | |
| +50 | 9.1 | 119.2 | 114.0 | |
| | 112 | 116.56 | 115.44 | |
| 2+00 | 1.9 | 114.7 | 109.6 | |
| +47 ME | 5.9 | 110.7 | 109.3 | |
| +50 | 5.9 | 110.7 | 105.2 | |
| 3+00 | 10.0 | 106.6 | 100.9 | |
| | 0.90 | 104.95 | 104.05 | |
| +50 Top | 1.45 | 103.5 | 96.5 | |
| +65 ME | 5.5 | 99.5 | 98.9 | |
| 4+00 | 6.1 | 98.9 | 92.0 | |
| +25 | 11.6 | 93.4 | 89.4 | |
| | 0.77 | 93.15 | 92.38 | |
| 4+00 | 2.8 | 90.4 | 86.8 | |
| +92 ME | 6.7 | 86.5 | 87.8 | |
| | | | 81.5 | |
| 5+00 | 7.6 | 85.6 | 77.0 | |

West
Williams X
Varonakis +

Clear + Warm

38

3/24/55

Between 4059 + 4103 West of copper disk
Tennyson

Qty engr copper disk 5" south prop line

C3 $\frac{5}{6}$
C3 $\frac{7}{2}$
C5 $\frac{2}{1}$

Begin work

C5 $\frac{1}{4}$
C1 $\frac{5}{7}$
C5 $\frac{1}{1}$

C7 $\frac{0}{6}$
C0 $\frac{9}{0}$
C4 $\frac{0}{1}$

C3 $\frac{6}{3}$
F1 $\frac{6}{1}$
C8 $\frac{6}{1}$ C4 $\frac{1}{1}$

43.4
2.6
90.8
Top of obs disk 4117

85.6
- 3.6
82.0
4+91

93.15

0.77 91.80 12.12 81.03

5+20 1.9 79.9 76.4

C3 ⁵

6+00 4.9 76.9 74.0

C2 ⁹ C4 ⁴

4+00 8.3 73.5 68.8

C4 ⁷

1+70 10.2 71.6 68.4

C3 ²

end of work

91.155 8.34 73.46 =

73.33 SW Top FH San Clemente + Voltaire

San Clemente Check depth of

main under elect conduit

0.56 99.16 98.9

Sta 4+00

3+96 6.96 92.5

Top of existing 6" Transit

4+10 9.80 89.7

" " " " "

4+18 11.25 88.2

" " " " " at abs Duct

4+20^E 11.5 88.0

" " " " " also duct at North

4+30 11.8 87.7

" " " " "

4+40 11.85 87.6

" " " " "

4+50 13.02 86.5

" " " " "

9.08 90.38

= 90.4 4+50 Binney

Out sheet
made

Whittier St
Catalina Blvd to 407' 61y

West
Williams &
Varonofskist

Clear + Warm

40

3/28/55

| | | |
|--------------|-------|-----------|
| 12.94 | 57.51 | 44.57 |
| 0+70 | 10.0 | 47.5 43.4 |
| +75 FH Tee | 9.9 | 47.6 43.6 |
| +75 (3) R FH | 9.9 | 47.6 47.8 |
| 1+00 | 7.8 | 49.7 45.3 |
| +39 ms | 1.6 | 55.9 54.0 |
| +50 | 2.2 | 55.3 50.5 |

| | | | |
|-------------------------|-------|------|-------|
| 11.01 | 67.26 | 126 | 56.25 |
| +70 ms | 9.3 | 58.0 | 56.3 |
| +87 MN | 9.5 | 57.8 | 56.8 |
| +92 MN | 9.5 | 57.8 | 56.9 |
| 2+00 | 9.4 | 57.9 | 53.0 |
| +25 | 8.9 | 58.9 | 54.3 |
| +34 ms | 8.7 | 58.6 | 58.6 |
| +50 | 8.7 | 58.6 | 54.5 |
| +55 ms ^{2 mts} | 8.5 | 58.8 | 58.8 |
| 3+00 | 7.9 | 59.4 | 55.1 |
| +25 | 7.0 | 60.3 | 55.5 |
| +50 | 5.5 | 61.8 | 55.0 |

| | | |
|----|-----------------------------|---|
| C4 | ¹ / ₁ | Top rim sewer-MH at 35' See F.B. 87H |
| C4 | ⁰ / ₀ | Begin work |
| F0 | ² / ₂ | |
| C4 | ⁴ / ₄ | |
| C1 | ⁹ / ₉ | |
| C4 | ⁸ / ₈ | |
| C1 | ⁷ / ₇ | 2' RI 1+10 TBM Nail in Top stub pole |
| C1 | ⁰ / ₀ | |
| C0 | ⁹ / ₉ | |
| C4 | ⁹ / ₉ | |
| C4 | ¹ / ₁ | |
| C0 | ⁰ / ₀ | |
| C4 | ¹ / ₁ | |
| C0 | ⁰ / ₀ | |
| C4 | ³ / ₃ | |
| C4 | ⁹ / ₉ | |
| C6 | ⁸ / ₈ | |

Whittier Cont

67.26

| | | | |
|---------|------|-------|------|
| 3+76 ms | 4.5 | 62.8 | 58.5 |
| 4+00 | 3.3 | 64.0 | 54.2 |
| +46 ms | 2.7 | 64.6 | 56.6 |
| +50 | 3.4 | 63.9 | 52.3 |
| +77 | 4.1 | 63.2 | 51.3 |
| | 3.44 | 63.82 | |

C4 $\frac{3}{8}$ C9 $\frac{8}{0}$ C8 $\frac{0}{6}$ C11 $\frac{6}{9}$ C11 $\frac{9}{9}$

end of work

= 63.88 TBM Nail in the stub pole

15' at 3+00

3/28/55

41

Temocula St
check on Depth of Main

West
Williams
Varonakis

42

3/20/55

SW BM BP Castellair + Etowanda

| | | |
|---------------------------|-------|--------------------|
| 1.84 | 35.52 | 33.68 |
| 2.94 | 26.14 | 12.32 23.20 |
| 3.56 | 24.57 | 5.13 21.01 |
| 7.06 | 30.13 | 1.50 23.07 |
| 1.71 | 27.14 | 4.70 25.43 |
| 5.49 | 25.05 | 2.57 19.57 |
| 5.71 | 26.06 | 4.71 20.35 |
| 5.64 | 29.25 | 2.45 23.61 |
| 1.15 | 27.92 | 2.48 26.77 |
| 4.67 | 26.06 | 6.53 21.39 |
| 10.26 | 36.58 | 0.29 25.82 |
| | | 2.90 33.68 = 33.68 |
| 10.73 | 31.08 | 20.35 |
| Top Conc Buttar 2+73 | | 10.20 20.88 |
| Top Ob 2+73 | | 9.79 21.29 |
| Top of 6" di Pipe 2+15 | | 4.96 26.12 |
| Top Ob 2+15 | | 2.33 28.76 |
| 9.92 | 40.69 | 0.31 30.77 |
| Top Ob 1+15 | | 3.35 37.34 |
| Top of Pipe 1+15 | | 6.13 34.56 |

Top Ell Montone + W Rd. end

6' from FA Temocula
TBM Sta 2+79 ± yellow end of Ob

SW BM BP Castellair + Etowanda

TBM

Temecula Cont

40.69

3.44 32.10

1203 28.66

2+44²

1.81 30.29

cut stake C52

30.3
5.3
25.0

2+44² Top Cb

722 21.88

11.76 20.34 = 20.35

End

3.00 23.35

20.35

end of Cb

2+80

3.71 19.64

on cut stake F02

19.64
1.7
20.34

3.00 20.35

Rialto W Pt Loma
 Check depth of Pipe for Lowering

West
 Williams X
 Varon Fakis +

44

9/31/55

| | | | |
|------------------|-------|-------|-------------|
| 7.29 | 13.15 | 5.86 | |
| 4+32 top Ob | | 2.42 | 10.73 |
| 4+32 Top pipe | | 5.40 | 7.75 |
| 4+55 Top Ob | | 4.42 | 8.73 6.2 |
| 4+55 Top of pipe | | 6.80 | 6.35 |
| 4+82 | | 6.91 | 6.24 2.7 |
| 4+90 | | 8.37 | 4.78 |
| 4+97 | | 9.18 | 3.97 |
| 5+10 | | 9.99 | 3.16 |
| 5+29 | | 10.65 | 2.50 |
| | | 8.54 | 4.61 |
| | | 7.29 | 5.86 = 5.86 |

Top stem (LV no stem)

4+86.31 end of Ob BC

8.7
 3.5
 6.2

C 3⁵

C 3⁵

Top of Ob at Fire Hyd

Top of Cone Kick Block

Top of pipe

" " "

" " "

edge of Block Top W Pt Loma Blvd

Durant St
33rd to Wabash
Set meters South side

20590

Set back of Meter 22.67 from 2 ft

2.05 2.471 22.66

1+35 5.64 19.1

1+35 MS 5.72 19.0 18.9

1+80 5.82 18.9

1+80 @ 0.5 5.90 18.8 18.4

1+80 5.91 18.8

2.05 22.66 = 22.66

West
Williams
Varenlokis

45

7-7-55

0+00 Ely Prop Line Gregory

BM SE EN 33rd & Steel St

Top of Ch N side St

00E

Top Ch N side St

00A

Top Riv covers

Alloy Bix 1 Wilshire PL
 E of 43 N of EL Cojon
 Backs of Meters set 7.25 from 11061.2

| | | | | | |
|---------|------|--------|-------|--------|-----------------|
| BM | 1.72 | 365.28 | | 363.56 | |
| P | 2.86 | 355.41 | 12.73 | 352.55 | |
| 0+26 E. | | | 3.8 | 351.6 | 352.3 FOZ |
| 0+78 E | | | 4.2 | 351.2 | 351.3 FOZ |
| 1+36 W | | | 5.6 | 349.8 | 349.7 COZ |
| 1+49 E | | | 6.0 | 349.4 | 349.2 COZ |
| 1+59 E | | | 6.4 | 349.0 | 348.9 COZ |
| 1+67 W | | | 6.8 | 348.6 | 348.7 FOZ |
| 2+40 W | | | 6.8 | 348.6 | 348.1 COZ |
| 2+48 E | | | 6.6 | 348.8 | 348.3 COZ |
| 2+81 W | | | 6.7 | 348.7 | 348.0 COZ |
| 3+06 E | | | 6.5 | 348.9 | 348.4 COZ |
| 3+21 W | | | 7.1 | 348.3 | 348.8 FOZ |
| 3+51 E | 6.10 | 355.96 | 5.55 | 349.86 | 349.9 COZ |
| 3+76 W | | | 5.5 | 349.5 | 350.5 COZ |
| 3+78 E | | | 5.1 | 350.9 | 350.7 COZ |
| 3+92 E | | | 4.9 | 351.1 | 351.3 FOZ |
| CK | | | 3.9 | 352.06 | 351.7 COZ = COZ |
| 4+19 W | | | 3.9 | 352.1 | 351.9 COZ |
| 4+74 W | | | 3.9 | 352.1 | 352.2 FOZ |

West
 Williams
 Varonfaks
 Kullhaber

46

7-8-55

0+00 Nly prop EL Cojon

BIT SWAP Van Dyke + EL Cojon 363.56

7-8-55

47

A1st + Meade NW 372 40ALLEY
(Cont'd.)

355.96

| | | | | | |
|-------------|------|--------|--------|-----------------|-------------------------------------|
| 4+96 E | | 3.7 | 352.3 | 352.6 | F02 |
| 5+09 W | | 3.9 | 352.1 | 352.3 | F02 |
| 5+30 E | | 3.9 | 352.1 | 352.2 | F01 |
| 5+35 F | | 3.7 | 352.3 | 352.1 | C02 |
| 5+75 W | | 3.6 | 352.2 | 350.8 | C16 |
| 5+80 W | | 3.22 | 352.74 | 350.6 | C2.14 = C2.25 |
| 6+07 (5) GV | | 6.03 | 349.93 | 349.0 | C09 |
| CK TBM | 5.23 | 355.38 | 5.81 | 350.15 = 50.28 | PK. in pole NW Cor of Alley (Meade) |
| TD | 3.46 | 355.64 | 3.20 | 352.18 | |
| CK B.M. | | | 3.32 | 352.32 = 352.60 | BP NW Cor 44 & Meade |

DELTA ST. 41ST To 300'
E. OF 42ND

Back of Motors Set 27' From St 28340

| | | | | |
|------|--------|-------|-------|------------|
| B.M. | 81A | 71.43 | 63.29 | |
| | 1041 | 81.11 | 0.73 | 70.70 |
| 0+00 | M.S.H. | | 9.3 | 71.8 71.9 |
| +05 | ③ F.H. | | 9.8 | 71.3 72.1 |
| +27 | M.N.H. | | 1.6 | 79.5 72.7 |
| +87 | M.S.H. | | 11.2 | 69.9 71.3 |
| 1+75 | M.N.H. | | 9.4 | 71.5 71.4 |
| +76 | M.S.H. | | 11.1 | 70.0 70.6 |
| 2+06 | M.N.H. | | 9.9 | 71.2 71.2 |
| +27 | M.S.H. | | 10.5 | 70.6 70.1 |
| +76 | M.S.H. | | 9.8 | 71.3 69.7 |
| +85 | M.N.H. | | 9.5 | 71.6 70.6 |
| 3+06 | M.S.H. | | 10.9 | 70.2 69.5 |
| +45 | M.N.H. | | 10.2 | 70.9 70.0 |
| | ATR | | | |
| +69 | M.N.H. | 75.55 | 10.28 | 70.83 69.8 |
| +70 | M.S.H. | | 8.2 | 67.4 69.9 |
| 4+24 | M.S.H. | | 7.1 | 68.5 68.5 |
| +27 | M.N.H. | | 3.6 | 72.0 69.3 |
| +28 | M.N.H. | | 3.6 | 72.0 68.9 |

WEST
WILLIAMS T
VARON FAKIST

48

7/15/55

| | |
|---------------------------|------------------|
| N.W.B.P. 40 TH | + DELTA ST |
| 0+00 S.E. PROP. LINE | 41 ST |
| F0 ¹ | 4103-05 |
| F0 ⁸ | 2 FH 28' From Q |
| C6 ⁸ | 4108 |
| F1 ⁴ | 4111 |
| C0 ¹ | 4128 |
| F0 ⁶ | 4129 |
| C0 ⁰ | 4138 |
| C0 ⁵ | 4127 |
| C1 ⁶ | 4143 |
| C1 ⁰ | 4144 |
| C0 ¹ | 4151 |
| C0 ⁹ | 4152 |
| C1 ⁰ | 4162 |
| F2 ⁵ | 4159 |
| C0 ⁰ | 4165 |
| C2 ⁷ | 4168 |
| C3 ¹ | 4178 |

Delta Cont

49

| | | | | | | |
|-------------|-------|------|-------|-------|-----------------|------|
| 5+26 M. Sly | 75.55 | 8.0 | 67.6 | 67.7 | F0 ^L | 4185 |
| 5+43 M. Sly | | 5.2 | 70.4 | 68.3 | C2 ^L | 4188 |
| +79 M. Sly | | 6.6 | 69.0 | 67.3 | C1 ^L | 4191 |
| 6+85 M. Sly | | 4.1 | 71.5 | 66.4 | C5 ^L | 4205 |
| 7+33 M. Sly | | 4.4 | 71.2 | 65.6 | C5 ^L | 4211 |
| +87 M. Sly | | 6.7 | 68.9 | 63.9 | C5 ^L | 4223 |
| | | 5.59 | 69.96 | 69.96 | | |

See Pg 2129 Page 67
West rim Sewer MH 6+30

75.55
5.59
69.96

Grand Ave Lee St
Check on Water Meter Vault

7.68 12.47 7.85

Top Ob NW off West side box 6.97 6.00

Top Meter Vault NW cor 5.97 6.50

" " " SE " 6.12 6.35

" " " SW " 6.10 6.37

" " " NE " 6.09 6.38

Top Ob opp E side box 6.46 6.01

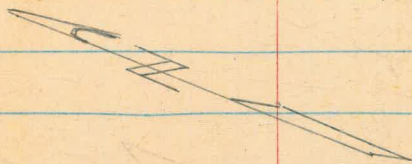
5.28 7.19 = 7.18

West
Williams
Varonakis
Alexander

50

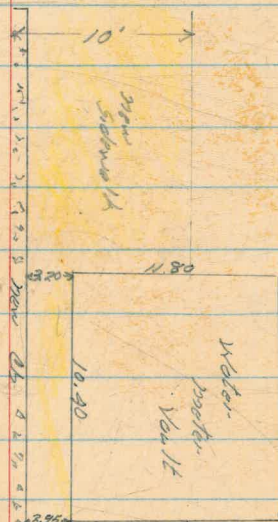
7-26-55

City end PK nail in PP East side bridge



Ke end el 1-4

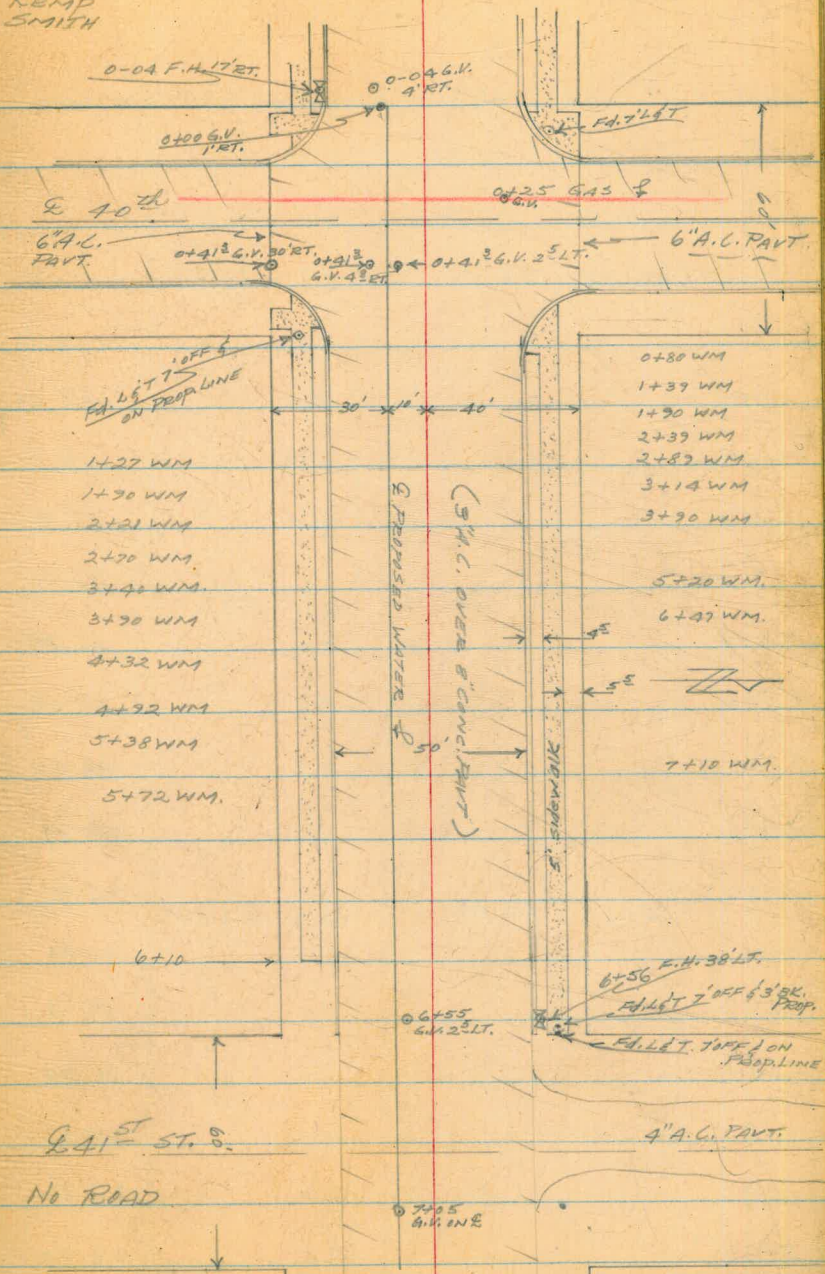
4"



NATIONAL AVE.
40th TO 41ST ST.
& PROFILE PROPOSED WATER MAIN
PRELIMINARY

0+00 = W/L 40th ST.

2/20/56
SHREY
- MARTELL
KEMP
SMITH



0-04 F.H. 17 ET.

0-04 G.V. 4' RT.

0+00 G.V. 1' RT.

Fd. 7' 2 ET.

E 40th

0+25 GAS 8"

6" A.C. F.V.T.

0+41 G.V. 30' RT.

0+41 G.V. 4' RT.

0+41 G.V. 2' 5' LT.

6" A.C. F.V.T.

FA. 4.5' T 7.5' OFF & ON PROP. LINE

- 1+27 WM
- 1+30 WM
- 2+21 WM
- 2+70 WM
- 3+42 WM
- 3+30 WM
- 4+32 WM
- 4+32 WM
- 4+32 WM
- 5+38 WM
- 5+72 WM

- 0+80 WM
- 1+39 WM
- 1+90 WM
- 2+39 WM
- 2+89 WM
- 3+14 WM
- 3+90 WM

5" I.C. D.I.B.E. 8" CONC. F.V.T.

PROPOSED WATER MAIN

5" I.C. D.I.B.E. 8" CONC. F.V.T.

6+10

6+55 G.V. 2' LT.

6+56 E.H. 30' LT.

FA. 1.7' OFF & 3' RT. PROP.

FA. 1.7' OFF & ON PROP. LINE

E 41ST ST. S.

4" A.C. F.V.T.

NO ROAD

7+05 G.V. 1' NE

7+20 = E/W 41ST ST.

NATIONAL AVE.
(Cont'd)

NWBP 41ST & NATIONAL

SWFH 40TH & NATIONAL

| | | | | |
|----------|-------|-------|-------|---------------|
| BM | 10.66 | 45.91 | | 35.25 |
| TP | 11.31 | 56.92 | 0.30 | 45.61 |
| TP | 10.71 | 67.45 | 0.18 | 56.74 |
| SET TBM | 1.00 | 66.51 | 1.94 | 65.51 |
| 0+00 | | | 2.7 | 63.81 |
| 0+50 | | | 4.3 | 62.21 |
| 1+00 | | | 6.4 | 60.11 |
| 1+50 | | | 8.7 | 57.81 |
| 2+00 | | | 11.1 | 55.41 |
| TP | 1.78 | 55.44 | 12.85 | 53.66 |
| 2+50 | | | 2.5 | 52.94 |
| 3+00 | | | 4.7 | 50.74 |
| 3+50 | | | 7.0 | 48.44 |
| 4+00 | | | 9.3 | 46.14 |
| 4+50 | | | 11.6 | 43.84 |
| TP | 2.14 | 44.72 | 12.86 | 42.58 |
| 5+00 | | | 3.3 | 41.42 |
| 5+50 | | | 5.6 | 39.12 |
| 6+00 | | | 7.8 | 36.92 |
| 6+50 | | | 10.2 | 34.52 |
| 7+00 | | | 12.0 | 32.72 |
| 7+20 | | | 12.7 | 32.02 |
| CK. B.M. | | | 9.48 | 35.24 = 35.25 |

ROANOKE ST.
F.H.'s RELOCATED & STAKED

July 9 1956

Beatty
Smith.

55

TP 1.02 201.82 200.80
 ⑤ FH SW Cor Hopkins 3.42 198.39 192.70
 & ROANOKE
 GV. 8.97 192.85 192.3
 OK BM 1.02 200.80

PK nail in fen. cor post NW Cor Roanoke & Hopkins
 C569 to flange FH
 55 out from P/L
 C055 to fin. grd.

TP 0.61 200.82 200.21 (10+25
 C75)
 ⑤ FH SE Cor Beauville St 1.58 199.24 192.2
 & ROANOKE
 GV 10.35 190.47 192.2

C70 to flange (FH)
 55 out from P/L

BM 13.35 160.39 147.04
 8.12 168.49 0.02 160.37
 OK TP 4.02 164.47 = 164.45

BP NE Cor Winchester & Rachel

⑤ FH SE Cor Rachel 8.10 160.39 160.7
 & ROANOKE
 GV. 7.71 160.78 160.0

F02 to flange
 C08 to fin. grd.

TP 2.72 219.57 216.85
 6.2 213.37 210.9

C247 to flange (FH)
 55 out from PL)

ROBNOKE ST
F.H. Cont'd.

56

| | | | |
|-------------------------------------|------|--------|----------|
| TP | 1.14 | 213.61 | 212.47 |
| ⑤ F.H. NE Cor Robnoke & Morningside | 4.26 | 209.35 | 209.2 |
| CK TP | 1.14 | 212.47 | |
| CK 19+00.88 | 4.05 | 209.56 | = 208.29 |

Top exist F.H. NE Cor Morningside & Robnoke
C.O. 5' to flange ^{F.H.} 5' out from P/L

C12

MORENA BLVD.
 16" Horiz GV. at JTD 9+55.95
 Morena @ LEHIGH ST.

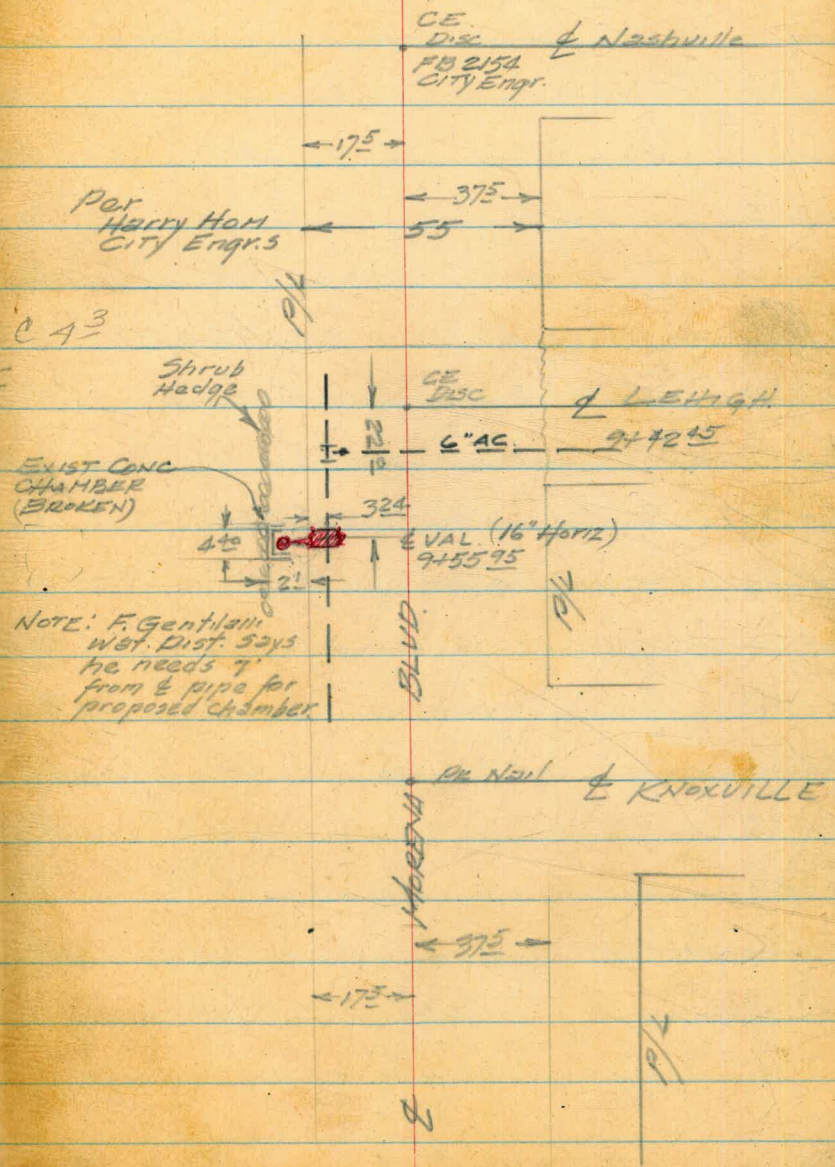
8/2/56

BEATTY
 SHOREY
 Kemp
 Smith.

57.

| | | | | | |
|-----------------|------|-----|-------|-------|------------------|
| | 4.71 | 1.4 | 7.3 | | |
| Lehigh st | | | | | |
| End of stub (4) | | 4.0 | 10.7 | 6.4 | C 4 ³ |
| Wh. (4) Gv Box | | 5.5 | 9.2 | 10.7 | F1 |
| F1, (5) | | 7.3 | 7.4 | 10.7 | F3 |
| | | 4.7 | 10.03 | 10.02 | |

Tocolate Creek
 10.62 BM on



NOTE: F. Gentham
 Wat. Dist. says
 he needs 7'
 from & pipe for
 proposed chamber

ALLEY BLKS 210-213
NORTH OF SUNSET CT., E. OF STRANDWAY

4.41 10.80

6.39

0+05 { BEGIN WORK
2" B.O. ASSEM.

4.5 6.3

2.6 C3⁷

0+50

4.5 6.3

2.6 C3⁷

0+75

4.4 6.4

2.5 C3⁹

1+00

6.1 4.7

1.1 C3⁶

1+50

8.3 2.5

-1.7 C4²

1+87 TP 4.90 4.60

11.10 -0.30

-3.9 C3⁶

2+00

4.6 0.0

-3.9 C3⁹

2+24 6" TOP CROSS

4.7 -0.1

-3.9 C3⁹ + CUT TO EXIST. MAIN.

2+50

4.9 -0.3

-4.3 C4⁰

3+00

4.2 0.4

-4.4 C4⁸

3+50

5.0 -0.4

-4.5 C4⁴

4+00

5.5 -0.9

-4.6 C3⁷

4+25

5.8 -1.2

-4.7 C3⁵

4+50

5.3 -0.7

-4.4 C3²

4+82 { END WORK
2" B.O. ASSEM.

4.8 -0.2

-4.0 C3⁸

CK. BM.

4.34 0.26 = 0.28

NAIL IN P.P. 4+44 4' RT.

11-9-56

KEMP
SMITH
O'BRIEN

FAIR & WARM
58.

SPR. IN P.P. 0+50 2' RT ALLEY BLK 221

ALLEY BLKS 210 TO 213
(CONT.)

WATER METERS

10.80

| | | | | | |
|---------|------|-----|------|------|-----|
| 04093. | | 4.6 | 6.2 | 5.4 | C03 |
| 04133 | | 4.8 | 6.0 | 5.4 | C04 |
| 0413N | | 4.9 | 5.9 | 5.4 | C05 |
| 0424N | | 5.1 | 5.7 | 5.4 | C03 |
| 0495N | | 5.3 | 5.5 | 4.2 | C13 |
| 04963 | | 5.8 | 5.0 | 4.0 | C10 |
| 1411N | | 6.6 | 4.2 | 3.0 | C12 |
| 14195 | | 6.8 | 4.0 | 2.6 | C14 |
| 2477N. | 4.60 | 4.6 | 0.0 | -1.6 | C18 |
| 13428N | | 4.6 | 0.0 | -1.7 | C12 |
| 34315. | | 4.6 | 0.0 | -1.7 | C12 |
| 13456S | | 5.1 | -0.5 | -1.7 | C13 |
| 3468N | | 5.2 | -0.6 | -1.8 | C13 |
| 23489N | | 5.3 | -0.7 | -1.8 | C11 |
| 44075. | | 5.5 | -0.9 | -1.9 | C10 |
| 244095. | | 5.5 | -0.9 | -1.9 | C10 |
| 44435. | | 5.5 | -0.9 | -1.9 | C10 |
| 244485. | | 5.4 | -0.8 | -1.8 | C10 |
| 4476N. | | 4.8 | -0.2 | -1.4 | C12 |
| 344775. | | 4.9 | -0.3 | -1.4 | C11 |

3
4
4
4
4
6

ALLEY BLK. 148
 NORTH OF MONTEREY CT., E. OF STRANDWAY
 @ STK'S 6" GRD. 6" A.C. MAIN

11/13/56
 SHOREY
 KEMP
 SMITH

| | | | | | |
|---------|--------------------------|------|----------------|--------|---|
| TBM | 2.67 | 8.09 | 5.42 | | NAIL IN P.P. 0+00 5 ³ LT |
| | | | 5.1 | | |
| 0+05 | 6" TEE & PLUG | 3.0 | 3.5 | 1.8 | C3 <u>3</u> ⁺ CUT TO EXIST. MAIN |
| | | | 4.8 | | |
| 0+25 | | 3.3 | 3.3 | 1.2 | C3 <u>6</u> |
| | | | 2.7 | | |
| 0+50 | | 5.4 | 5.4 | -0.8 | C3 <u>5</u> |
| | | | 0.5 | | |
| 0+88 | | 7.6 | 7.5 | -3.7 | C4 <u>2</u> |
| | | | | | |
| 1+00 | | 7.3 | 0.8 | -3.6 | C4 <u>4</u> |
| | | | | | |
| 1+28 | 8" X 16" TAPP CROSS | 7.4 | 0.7 | -3.4 | C4 <u>1</u> ⁺ CUT TO EXIST. MAIN |
| | City to Conn. TO | | | | |
| 1+57 | 5" END WORK 2" C.I. MAIN | 7.5 | 0.6 | -3.2 | C3 <u>8</u> ⁺ " " " " |
| CK. TBM | | 2.67 | 5.42 | = 5.42 | |

NOTE: METERS IN THIS
 ALLEY ALREADY STRID. FROM
 IMPROVEMENT SHEET

ALLEY BLK'S 208 & 209 MISSION BEACH
 NORTH OF SEAGIRT CT., E. OF MISSION BLVD.
 @ STK'S & BED. 6" A.C. MAIN

11/15/56
 SHOREY
 KEMP
 SMITH

61

| TBM | 3.98 | 4.10 | 0.12 | |
|-----------------------------|------|------|--------|------|
| 0+00 BEGIN WORK | | 3.9 | 0.2 | -3.0 |
| 0+12 | | 4.5 | -0.4 | -4.0 |
| 0+50 10" X 6" CROSS | | 4.3 | -0.2 | -4.0 |
| 0+75 | | 4.5 | -0.4 | -4.4 |
| 1+00 | | 3.9 | 0.2 | -4.5 |
| 1+50 | | 4.6 | -0.5 | -4.6 |
| 2+00 | | 4.8 | -0.7 | -4.7 |
| 2+50 | | 5.2 | -1.1 | -4.9 |
| 2+75 | | 5.1 | -1.0 | -5.0 |
| 3+00 | | 5.0 | -0.9 | -4.9 |
| 3+25 END WORK - L.B.O. ASSY | | 4.9 | -0.8 | -4.8 |
| CK. TBM | 3.98 | 0.12 | = 0.12 | |

WATER METER
 4.10

| | | | | |
|--------|-------|-----|------|------|
| 0+82.5 | | 4.5 | -0.4 | -1.7 |
| 1+00N | | 4.3 | -0.2 | -1.7 |
| 1+31N | 1+06N | 4.4 | -0.3 | -1.7 |
| 1+59.5 | | 4.6 | -0.5 | -1.8 |
| 1+66N | | 4.6 | -0.5 | -1.9 |
| 1+66.5 | | 4.4 | -0.3 | -1.9 |
| 1+88N | | 4.6 | -0.5 | -1.9 |
| 1+91.5 | | 4.5 | -0.4 | -2.0 |
| 2+17N | | 4.8 | -0.7 | -2.0 |
| 2+33.5 | | 5.0 | -0.9 | -2.1 |
| 2+33N | | 4.8 | -0.7 | -2.2 |
| 2+74.5 | | 5.0 | -0.9 | -2.2 |
| 2+75N | | 5.3 | -1.2 | -2.3 |
| 3+24.5 | | 5.3 | -1.2 | -2.3 |
| 3+27N | | 5.1 | -1.0 | -2.2 |
| | | 4.7 | -0.6 | -2.2 |

S. EDGE SEW. M.H. 0-01

C3² - CUT TO EXIST. MAIN

C3⁶

C3⁸ - CUT TO EXIST. MAIN

C4⁰

C4⁷

C5¹

C4⁰

C3⁸

C4⁰

C4⁰

C4⁰

C4⁰

C1³

C1⁵

C1⁴

C1³

C1⁵

C1³

C1⁴

C1⁴

C1³

C1⁶

GUY ST.
 PRINGLE TO LINWOOD
 ③ STKS FOR LOWERING MAIN
 0+95 TO 1+55 (0+00 = SELV LINE PRINGLE)

12/7/56
 SHOREY
 KEMP
 SMITH

TBM 10.63 197.04 186.41

2" X 2" HUB MK'D P.O.T. 1464⁰⁰ E

| | | | | | |
|---------|------|--------|--------|----------|-----------------|
| 0+95 | | 4.4 | 192.6 | 185.4 | C7 ² |
| M00 | | 5.1 | 191.9 | 184.5 | C7 ⁴ |
| 1+25 | | 9.6 | 187.4 | 178.0 | C9 ⁴ |
| TP | 0.02 | 183.67 | 13.37 | 183.67 | |
| 1+55 | | 6.4 | 177.3 | 170.0 | C7 ³ |
| TP | 9.96 | 183.14 | 0.51 | 183.18 | |
| CK. TBM | | 6.71 | 186.43 | = 186.41 | |

WATER METERS
 197.04

| | | | | | |
|---------|--------|------|-------|-------|-----------------|
| 0+60.5 | | 2.5 | 194.5 | 194.0 | C0 ⁵ |
| 1+26 N. | | 9.6 | 187.4 | 182.6 | C4 ⁸ |
| | 183.69 | | | | |
| 1+69.5 | | 10.5 | 173.2 | 169.4 | C3 ⁸ |
| 2+20.5 | | 25.0 | 158.7 | 156.3 | C2 ⁴ |

TROJAN AVE
VALE WAY TO SHARRON PLACE

| | | | | | |
|--------------------|-------------------------|--------|-------|--------|--|
| B.M. | 12.56 | 373.57 | | 361.01 | |
| | 10.47 | 383.54 | 0.50 | 373.07 | |
| | 3.02 | 384.57 | 1.99 | 381.55 | |
| 0+96 | CONN. TO EXIST. 8" G.I. | | | 378.2 | + |
| 1+00 | | 1.9 | 382.7 | 378.5 | C4 ² CUT TO EXIST. PIPE |
| 1+25 | | 2.3 | 382.3 | 377.2 | C5 ¹ |
| 1+50 | | 0.9 | 383.7 | 376.6 | C7 ¹ |
| 2+00 | | 3.4 | 381.2 | 375.4 | C5 ⁸ |
| 2+50 | | | | 374.9 | |
| 2+53 ⁶⁴ | 8" x 6" TEE | | 4.9 | 379.7 | 374.8 C4 ⁹ |
| 3+00 | | | | 374.1 | |
| 3+02 ⁵³ | B.G. | | 4.1 | 380.5 | 374.0 C6 ⁵ |
| 3+31 ⁷ | F.H. TEE | | 5.0 | 379.6 | 373.0 C6 ⁶ |
| | (5) | | 5.1 | 379.5 | C6 ⁵ C2 ⁵ FLANGE |
| 3+50 | | | 5.3 | 379.3 | 372.0 C7 ³ |
| 3+71 ¹⁶ | P.R.C. | | 5.4 | 379.2 | 371.5 C7 ⁷ |
| 4+00 | | | 5.7 | 378.9 | 370.5 C8 ⁴ |
| 4+25 | | | 6.7 | 377.9 | 369.7 C8 ³ |
| 4+46 ²³ | E.C. | | 6.5 | 378.1 | 369.0 C9 ¹ |
| 4+50 | | | | 368.6 | |
| 5+00 | | | 7.8 | 376.8 | 366.8 C10 ⁰ |
| 5+50 | IP 0.38 | 374.87 | 10.08 | 374.49 | 365.0 C9 ⁵ |

TROJAN AVE
(CONT'D)

64

374.87

| | | | | |
|-------------------|-------------|--------|----------|--------|
| 6+00 | 2.9 | 372.0 | 363.4 | 086 |
| 6+50 | 4.8 | 370.1 | 361.6 | 085 |
| 6+88 | 5.3 | 369.6 | 360.2 | 094 |
| 7+00 | 5.5 | 369.4 | 360.0 | 094 |
| 7+50 | 7.3 | 367.6 | 357.0 | 086 |
| 7+75 | 8.7 | 366.2 | 358.4 | 078 |
| 8+02 ⁵ | | | | |
| 8+07 ³ | EXIST. TEE. | | | |
| TP | 4.63 | 369.77 | 9.79 | 365.14 |
| CK. BM | 8.80 | 360.97 | = 361.01 | |

56th ST.
MEADE TO TROJAN AVE.
⑥ STK'S & GRD. 6" A.C. MAIN

1/8/57
SHOREY
KEMP
SMITH

65

| | | | | | |
|-------------|------------------------------|-------------------|------------------|-------------------|------------------|
| BM | 0.38 | 438.15 | | 437.77 | |
| TP | 3.53 | 428.54 | 13.14 | 425.01 | |
| 0+60 | CONN. TO EXIST. 6" C.I. MAIN | | 5.5 | 423.0 | 418.2 |
| 0+75 | | | 4.3 | 424.2 | 417.6 |
| 1+25 | | | 4.8 | 423.7 | 417.0 |
| 1+62 TP | 0.07 | 421.64 | 6.97 | 421.57 | 415.6 |
| RE stake TP | 1.42 | 422.99 | 7.4 | 421.57 | |
| 2+00 | | | 3.6 | 415.6 | 412.3 |
| 2+50 | | | 11.3 | 411.7 | |
| TP | 0.18 | 409.87 | 8.8 | 412.8 | 407.9 |
| 3+00 TP | 0.59 | 409.19 | 13.30 | 409.69 | |
| | | | 2.8 | 407.1 | 403.3 |
| 3+50 | | | 8.2 | 401.7 | |
| | | | 5.5 | 405.7 | 398.7 |
| 4+00 TP | 0.79 | 397.86 | 12.80 | 397.07 | |
| | | | 4.7 | 398.5 | 393.9 |
| 4+25 TP | 0.26 | 396.17 | 3.0 | 394.9 | |
| | | | 13.28 | 395.91 | 391.4 |
| 4+50 | | | 5.4 | 392.5 | |
| | | | 2.5 | 393.9 | 389.4 |
| 5+00 | | | 9.2 | 388.7 | |
| | | | 6.0 | 390.2 | 385.3 |
| 5+50 TP | 2.04 | 387.38 | 12.52 | 385.34 | |
| | | | 3.0 | 387.2 | 382.1 |
| 6+00 | | | 4.9 | 382.5 | |
| TP | 1.15 | 386.04 | 11.9 | 384.3 | 378.9 |
| 6+50 | | | 4.8 | 381.29 | |
| | | | 4.6 | 384.3 | 375.4 |
| 7+00 ± | END WORK | | 8.4 | 379.0 | |
| | | | 6.4 | 379.6 | 374.8 |
| CK. | | | 6.3 | 377.7 | 377.7 |
| | | | 7.7 | 377.7 | = 377.7 |

NEBP EL. CAVON @ 56th

NOTE: RESTAKED 3/12/57
IN RED

C4⁸ ± CUT TO EXIST. MAIN

C6⁶

C6²

C6⁰

WATER METERS

C3³

✓ 0+50 W.

1.5 421.5 ~~421.6~~ C1²

C3³

Reset 0+84 W.

6.9 421.6 420.1 C1⁵

C3⁸

2+05 1+99 W.

7.9 415.1 415.9 F0³

C3⁸

✓ 2+52 W.

11.2 411.8 410.7 C0²

C3⁰

✓ 3+16 W.

3.0 406.9 404.6 C2³

C3³

✓ 4+33 W.

3.2 395.7 393.2 C2⁵

C3⁵

4+33 v 4+32 W.

C3²

3/21/57
#8.

C3²

C3⁴

C3²

C3⁴

C4⁸

C4³

⑥ 2+53^{6A} 8" X 12" TEE TROJAN AVE Pg. 65

RADIO DRIVE 8" A.C. MAIN
 SPRINGFIELD TO PARADISE
 ⑤ STR'S & GRD.

| | | | | | |
|-------------------------|---------------------|--------|--------|--------|-------|
| BM | 112 | 466.29 | 465.17 | | |
| CONN. TO EXIST. 6" C.I. | | | | | |
| 0+72 | 6" V. #8" x 6" RED. | 8.6 | 457.7 | 449.8 | |
| 0+75 | | 8.9 | 457.4 | 449.4 | |
| 1+00 | | 10.2 | 456.1 | 447.8 | |
| +50 TP | 0.35 | 453.81 | 12.83 | 453.46 | 444.5 |
| 2 | | 4.8 | 449.0 | 446.3 | |
| +50 | | 8.9 | 444.9 | 438.0 | |
| 3 | | 13.8 | 440.0 | 434.7 | |
| TP | 0.13 | 440.81 | 13.13 | 440.68 | |
| +50 | | 5.2 | 435.6 | 431.5 | |
| 4 | | 10.7 | 430.1 | 428.2 | |
| 4+33 ⁸⁶ | 22 1/2" BEND APT. | 11.9 | 428.9 | 426.2 | |
| +50 | | 13.6 | 427.2 | 425.3 | |
| TP | 0.10 | 427.89 | 13.02 | 427.79 | |
| 5 | | 3.0 | 424.9 | 422.3 | |
| +17 F.H. TEE | | 4.1 | 423.8 | 421.1 | |
| ⑤ | | 6.3 | 421.6 | | |
| +50 | | 5.1 | 422.8 | 419.2 | |
| 5+28 ⁴⁴ | APT. 22 1/2" BEND | 7.9 | 420.0 | 416.2 | |
| 6 | (OMIT) | | | 416.0 | |
| +50 | | 8.7 | 419.0 | 413.9 | |

1/9/57
 SHOREY
 BEND
 SMITH

66

CONG. MAN. N.E. COR. 67th & MALLARD

C7² ± CUT TO EXIST. MAIN

C8²

C8³

C9²

C7³

C6²

C5³

C4¹

C1²

C2³

C1³

C2⁶

C2³

C3⁶

C3⁸

C5¹

RESET ⑩ RT. 1/18/57

C5⁶

C7⁸

C8¹

C8⁴

F.A.³ TO FLANGE GO⁵ TO BOTTOM

C8⁶

C6⁸

C9²

RADIO ROAD

⑥ STK'S
(CONT'D)

407.89

1/9/57
SHOREY
KEMP
SMITH

67

⑩ RT.

| | | | | | |
|-------|----------|-----------------|-------|--------|-------|
| 7+00 | | | 11.3 | 416.6 | 411.7 |
| +50 | | | 14.0 | 413.9 | 409.5 |
| TP | 0.49 | <u>415.06</u> | 13.32 | 414.57 | |
| 8~ | | | 4.5 | 410.6 | 407.2 |
| +50 | | | 5.9 | 409.2 | 405.0 |
| 9~ | | | 8.1 | 407.0 | 402.7 |
| +50 | | | 11.8 | 403.3 | 400.5 |
| 10~ | | | 13.6 | 401.5 | 398.1 |
| TP | 1.58 | <u>403.65</u> | 12.99 | 402.07 | |
| 11+49 | 2A | ΔPT. 11/4° BEND | 2.7 | 401.0 | 396.2 |
| 10+98 | F.H. TEE | | 0.3 | 403.4 | 394.2 |
| 11~ | ⑤ | | 6.4 | 397.3 | 394.1 |
| +50 | | | 7.3 | 394.4 | 392.1 |
| 12~ | | | 10.9 | 392.8 | 390.0 |
| +50 | | | 9.6 | 394.1 | 388.6 |
| 13~ | | | 11.6 | 392.1 | 387.2 |
| TP | 2.70 | <u>393.07</u> | 13.28 | 390.37 | |
| 13+49 | 46 | ΔPT. 11/4° BEND | 5.2 | 387.9 | 385.8 |
| 14~ | | | 6.3 | 386.8 | 384.4 |
| +50 | | | 8.3 | 384.8 | 381.6 |
| 15~ | | | 8.6 | 384.5 | 380.3 |
| +50 | | | 10.6 | 382.5 | 378.8 |
| 15+52 | 44 | ΔPT. 11/4° BEND | 11.0 | 382.1 | 378.7 |

| | |
|-----------------|------------------|
| C4 ² | C8 ² |
| C4 ² | C8 ² |
| C3 ⁴ | C9 ⁶ |
| C4 ² | C8 ⁸ |
| C4 ² | C9 ³ |
| C2 ⁸ | C8 ⁴ |
| C3 ⁴ | C7 ⁵ |
| C4 ² | C7 ² |
| C9 ² | C9 ² |
| C3 ² | 403.3 |
| C2 ³ | C9 ⁷ |
| C2 ⁸ | C9 ² |
| C5 ⁵ | C10 ⁴ |
| C4 ² | C10 ⁵ |
| C2 ¹ | C7 ¹ |
| C2 ⁴ | C9 ² |
| C3 ² | C11 ² |
| C4 ² | C10 ² |
| C3 ³ | C6 ² |
| C3 ⁴ | C5 ³ |

C1⁴ TO BOT. FA¹ TO FLANGE

RADIO ROAD

⑤ STR'S
(CONT'D)

393.07

| | | | | | |
|----|-----|--------------------|-------|--------|-------|
| 16 | +00 | | 12.6 | 380.5 | 377.9 |
| | +50 | | 13.9 | 379.2 | 377.0 |
| | | TP 2.83 | 13.34 | 379.73 | |
| 17 | --- | | 5.2 | 377.4 | 375.4 |
| | +15 | F.H. TEE | 5.4 | 377.2 | 374.9 |
| | | ③ | 6.3 | 376.3 | |
| | +50 | | 4.9 | 377.7 | 373.7 |
| 18 | --- | | 5.0 | 377.6 | 372.1 |
| | +50 | | 5.9 | 376.7 | 370.5 |
| 18 | +52 | ① APT. 11 1/4 BEND | 6.0 | 376.6 | 370.4 |
| | | ③ RT. | 3.1 | 379.5 | |
| 19 | --- | | 6.8 | 375.8 | 368.9 |
| | +25 | ③ RT. | 7.0 | 375.6 | 368.0 |
| | +50 | | 7.2 | 375.4 | 367.3 |
| 20 | --- | | 8.1 | 374.5 | 365.8 |
| | +50 | TP 1.74 | 9.05 | 373.51 | 364.6 |
| | | | | | |
| 21 | --- | | 2.4 | 372.9 | 363.5 |
| | +50 | | 2.7 | 372.6 | 362.4 |
| 22 | --- | | 3.1 | 372.2 | 360.9 |
| | +50 | | 4.0 | 371.3 | 359.5 |
| 23 | --- | | 5.3 | 370.0 | 358.0 |

1/9/57

SHOREY
KEMP
SMITH

68

⑩ RT.

| | | | | | | |
|--|--|--|--|--|--|-----------------|
| | | | | | C2 ⁶ | C9 ³ |
| | | | | | C2 ³ | C7 ³ |
| | | | | | C2 ⁰ | C6 ³ |
| | | | | | C2 ³ | C5 ⁶ |
| | | | | | F3 ³ TO FLANGE C4 TO BOTTOM | |
| | | | | | C4 ⁰ | C5 ³ |
| | | | | | C4 ³ | |
| | | | | | C6 ² | |
| | | | | | C6 ² | |
| | | | | | C9 ¹ | |
| | | | | | C6 ² | |
| | | | | | C7 ⁶ | |
| | | | | | C8 ¹ | |
| | | | | | C8 ² | |
| | | | | | C8 ² | |
| | | | | | C9 ⁴ | |
| | | | | | C10 ³ | |
| | | | | | C11 ³ | |
| | | | | | C11 ⁸ | |
| | | | | | C12 ⁰ | |

RADIO ROAD

⑤ STR'S
(CONT'D)

375.25

1/9/57

SHOBEY
LEMP
SMITH

69

23+24 F.H. TEE 6.3 369.0 357.3

C11²

⑤

11.8 368.5

C1² TO FLANGE C6² TO BOTTOM

+50

7.4 367.9 356.6

C12³

24

9.4 365.9 355.1

C10⁸

+50

11.5 363.8 353.6

C11³

25

13.4 361.9 352.2

C9⁷

TP

0.42

362.97

12.70 362.55

+50

3.1 359.9 350.4

C9⁵

26

5.0 358.0 349.3

C8⁷

+25

348.6

+50

7.3 355.7 348.5

C7²

END WORK - CONN. TO

26+92[±]

EXIST. 8" C.I. 8" X 8" TEE

9.3 353.7 348.4

C5³ ± CUT TO EXIST. MAIN

TP

2.11

352.31

12.77 350.20

OK, BM

5.95 346.36 = 346.32

TOP F.H. ATTIX & RADIO (F.B. 909-56)

WATER METERS

382.56

2 16+80 SLY

4.2 378.4 372.6

F1²

17+82 NLY

+0.8 383.4 376.5

C6²

375.25

2 21+49 SLY

9.1 366.2 366.4

F0³

ELEV. TOP OF MAIN &
SERVICES
ROSECROFT LANE
(CATALINA TO SILVERGATE)
0+00 = E/L CATALINA

1/16/57
SHOREY
KEMP
SMITH

70

BM 3.77 310.27 306.50

SPIKE @ CATALINA @ ROSECROFT LANE

| | | | | | | |
|----------------------------|--------|-------|--------|---------|-----------------|-----------------------------|
| 1+00 S. | | 6.7 | 303.6 | 302.4 | C1 ² | W.M. SERVICE LATERAL "3749" |
| 1+05 ⁵ Top MAIN | | 7.6 | 302.7 | 305.2 | C2 ⁵ | |
| 1+12 N. | | 7.2 | 303.1 | 302.0 | C1 ^L | " " " "3744" |
| 2+02 S. | | 7.2 | 303.1 | 303.1 | C0 ⁰ | " " " "3739" |
| 2+20 N. | | 6.4 | 303.9 | 302.9 | C1 ⁰ | " " " "3734" |
| 2+38 Top MAIN | | 7.2 | 303.1 | 306.3 | C3 ² | |
| 2+98 ⁵ Top MAIN | | 5.8 | 304.5 | 307.4 | C2 ² | |
| 3+49 Top MAIN | | 4.1 | 306.2 | 309.2 | C3 ⁰ | |
| 3+49 S. | | 3.2 | 307.1 | 306.0 | C1 ⁰ | " " " "3715" |
| TP 11.40 | 321.54 | 0.13 | 310.14 | | | |
| 3+69 N. | | 14.7 | 306.8 | 306.8 | C0 ⁰ | " " " "3714" |
| 4+75 S. | | 8.4 | 313.1 | 312.6 | C0 ⁵ | " " " "3651" |
| 5+28 Top MAIN | | 6.4 | 315.1 | 318.7 | C3 ⁶ | |
| 5+45 S. | | 4.2 | 317.3 | 316.4 | C0 ² | " " " "3641" |
| 5+88 N. | | 2.3 | 319.2 | 318.7 | C0 ⁵ | " " " "3646" |
| TP 13.17 | 334.51 | 0.20 | 321.34 | | | |
| 6+87 Top MAIN | | 10.6 | 323.9 | 327.3 | C3 ⁴ | |
| 7+18 S. | | 8.5 | 326.0 | 325.8 | C0 ³ | " " " "3631" |
| 8+08 Top MAIN | | 6.1 | 328.4 | 331.6 | C3 ² | |
| TP 0.48 | 321.87 | 13.12 | 321.39 | | | |
| TP 0.63 | 310.73 | 11.77 | 310.10 | | | |
| CK. BM | | 4.24 | 306.49 | =306.50 | | |

NOTE: GRD'S FOR LATERALS ARE
CURB GRD'S MINUS 3.15

WATER METERS
ROSECROFT LANE
CATALINA BLVD TO SILVERGATE
0400 = E/L CATALINA BLVD

1/22/57
SHOREY
KEMP
SMITH

71

| BM | | | | | | SPIKE @ CATALINA & ROSECROFT |
|-----------|-------|--------|----------------------|--------|-----------------|------------------------------|
| 0+17 F.H. | 7.99 | 314.49 | 306.50 | 306.35 | FOI | |
| 1+00 S. | | | 8.2 306.3 | 304.7 | CI ¹ | "3749" |
| 1+12 N. | | | 8.7 305.8 | | | |
| 2+02 S. | | | 9.0 305.5 | 304.3 | CI ² | "3744" |
| 2+20 N. | | | 8.0 306.5 | 305.3 | CI ² | "3739" |
| 3+49 S. | | | 8.8 305.7 | 305.0 | CO ⁷ | "3734" |
| 3+69 N. | | | 5.2 309.3 | 308.3 | CI ⁰ | "3715" |
| TP | 13.07 | 327.20 | 4.4 310.1 | 309.1 | CI ⁰ | "3714" |
| 4+75 S. | | | 0.36 314.13 | | CO ⁷ | "3657" |
| 5+45 S. | | | 11.7 315.5 | 314.8 | CO ⁷ | "3641" |
| 5+88 N. | | | 7.9 319.3 | 318.6 | CO ⁷ | "3646" |
| 7+18 S. | | | 5.7 321.5 | 320.9 | CO ⁶ | "3631" |
| TP | 0.22 | 315.32 | + 1.6 328.8 | 328.0 | CO ⁸ | |
| CK. BM. | | | 12.10 315.10 | | | |
| | | | 8.82 306.50 = 306.50 | | | |

L" ST.
 32ND ST. TO 245' EAST
 (B) STKS FOR 4" A.C. MAIN

| BM | 6.08 | 83.13 | 77.05 |
|----------------------|----------|-------|---------------|
| 0+40 | | 5.8 | 77.3 |
| 0+45 | 4' 6" V. | 5.9 | 77.2 |
| 0+62. | | 6.0 | 77.1 |
| 1+00 | | 5.5 | 77.6 |
| 1+50 | | 5.3 | 77.8 |
| 2+00 | | 5.0 | 78.1 |
| 2+50 | | 4.8 | 78.3 |
| 2+62. | | 4.8 | 78.3 |
| 3+00 | | 5.5 | 77.6 |
| 3+11 ± 2" B.O. Assy. | | 5.9 | 77.2 |
| CK. BM | | 6.08 | 77.05 = 77.05 |

1/25/57
 SHOREY
 KEMP
 SMITH
 PAULSON

S.W.B.P. "L" ST. & 32ND
 C3⁶ ± CUT TO EXIST. MAIN

C3⁵
 C3⁴
 C3⁸
 C3²
 C3⁸
 C3⁸
 C3²
 C4³
 C4¹

WATER METERS
EMERALD ST.; OLNEY & PENDLETON

1/31/57
SHOREY
KEMP
SMITH

73

| BM | 060 | 83.71 | 83.11 | S.W.B.P. DIAMOND & PENDLETON | |
|--------------|------|-------|-------|------------------------------|------------------------------|
| | 1.76 | 73.29 | 12.18 | 71.53 | |
| 0414 F.H. | | 3.8 | 69.5 | 70.9 | F1 $\frac{1}{2}$ |
| 0415 S. | | 3.6 | 69.7 | 69.8 | F0 $\frac{1}{2}$ |
| 0459 S. | | 5.1 | 68.2 | 68.1 | C0 $\frac{1}{2}$ "2209" |
| 0488 S. | | 5.7 | 67.6 | 67.4 | C0 $\frac{2}{2}$ "2213" |
| 1419 S. | | 6.3 | 67.0 | 67.2 | F0 $\frac{2}{2}$ "2219" |
| 1473 S. | | 5.9 | 67.4 | 66.9 | C0 $\frac{5}{2}$ "2227" |
| 2404 S. | | 6.2 | 67.1 | 66.8 | C0 $\frac{3}{2}$ "2233" |
| 2411 N. F.H. | | 4.7 | 68.6 | 68.6 | C0 $\frac{2}{2}$ |
| 2455 S. | | 6.4 | 66.9 | 66.7 | C0 $\frac{2}{2}$ "2239" |
| 2496 S. | | 6.0 | 67.3 | 66.6 | C0 $\frac{7}{2}$ "2247" |
| 3440 S. | | 5.8 | 67.5 | 66.5 | C1 $\frac{2}{2}$ "2255" |
| 3479 S. | | 5.8 | 67.5 | 66.4 | C1 $\frac{1}{2}$ "2265" |
| T.P. | 1130 | 84.22 | 0.37 | 72.92 | S.W.B.P. DIAMOND & PENDLETON |
| CK BM | | 1.10 | 83.12 | = 83.11 | |

COVINGTON ROAD

496' WLY. BOUNDARY ST. TO TERMINUS

③ STK'S 4" A.C. MAIN

2/1/57

SHOREY
KEMP
SMITH

74

S.E.B.P. MADE & BOUNDARY

B.M. 6.66 301.78 295.12

TP 0.84 290.48 12.14 289.64

4+96 5.8 284.7 281.6 C3¹ ± CUT TO EXIST. MAIN

5+00 5.9 284.6 281.3 C3³

5+50 7.9 282.6 279.1 C3⁵

6+00 10.3 280.2 276.8 C3⁴

6+20 11 1/4° BEND 11.2 279.3 275.9 C3⁴

6+69 13.3 277.2 273.5 C3⁷

TP 11.75 301.60 0.63 289.85

CK. B.M. 6.49 295.11 = 295.12

Kew Terrace
NUTMEG to TERMINUS
⑤ STK'S 4" A.C. MAIN

2/1/57

SHOREY
KEMP
SMITH

75

BM 6.26 301.38 295.12

S.E.B.P. MAPLE & BOUNDARY

HP 0.46 297.43 4.41 296.97

HP 6.59 294.37 9.65 287.78

BEGIN WORK

0+36 6" x 4" REDUCER 8.6 285.8 282.4

C₃⁴ ± CUT TO EXIST. MAIN

0+50 8.9 285.5 282.1

C₃⁴

1+00 10.0 284.4 280.6

C₃⁸

1+50 11.5 282.9 279.1

C₃⁸

2+00 13.3 281.1 277.5

C₃⁶

2+09 END. 4" CAP. 13.0 281.4 277.2

C₄²

HP 8.37 302.52 0.22 294.15

CK. B.M. 7.42 295.10 = 295.12

OLIPHANT ST.
WILLOW TO EVERGREEN
⑧ STK'S & GRD. 6" A.C. MAIN

| | | | | |
|--------------------|----------------------|--------|--------|---------------------------|
| BM. | 0.28 | 153.09 | 152.81 | |
| 0+45 | 8" X 6" TAPP. SLEEVE | 2.4 | 150.7 | 147.1 |
| 0+75 | | 3.5 | 149.6 | 146.7 |
| 0+80 | F.H. TEE | 4.0 | 149.1 | 146.2 |
| ⑤ | | 4.3 | 148.8 | |
| 0+90 | Δ PT. 5° 42' 38" RT. | 5.1 | 148.0 | 144.9 |
| 1+00 | | 6.2 | 146.9 | 143.6 |
| 1+40 ²⁵ | Δ PT. 5° 42' 38" LT. | 10.7 | 142.4 | 138.7 |
| 1+50 | | 11.8 | 141.3 | 137.4 |
| TP | 0.16 | 140.01 | 13.24 | 139.85 |
| 1+75 | | 0.9 | 139.1 | 134.3 |
| 2+00 | | 1.5 | 138.5 | 129.5 130.0 |
| 2+25 | | 9.8 | 130.2 | 123.2 124.0 |
| TP | 0.58 | 127.30 | 13.29 | 126.72 |
| 2+50 | | 5.7 | 121.6 | 116.2 116.7 |
| TP | 0.22 | 114.54 | 12.98 | 114.32 |
| 3+00 | | 7.1 | 107.4 | 102.3 102.3 |
| TP | 0.11 | 101.68 | 12.97 | 101.57 |
| 3+38 | | 5.1 | 96.6 | 91.8 |
| TP | 0.28 | 89.04 | 12.92 | 88.76 |
| 3+88 | | 6.0 | 83.0 | 76.4 |
| 4+16 | CONN. TO EXIST. MAIN | 9.6 | 79.4 | 76.6 |
| CK. TBM | | 4.62 | 84.42 | = 84.42 |

2/8/57

SHERRY
KEMP
SMITH

76

N.W. B.P. OLIPHANT & WILLOW

C3⁰ ± CUT TO EXIST. MAIN

C2³

C2⁹

C2⁶ TO BOTTOM F1¹ TO FLANGE

C3¹

C3³

WATER METERS

153.09

1+25 SLY 8.7 184.4 143.3 C1¹

140.01
1+85 SLY 1.3 139.7 135.8 C2²

2+00 NAY 1.3 138.7 133.4 C5³

RESTAKED 3/25/57

⑧ 2+50

0.20 121.80 121.60

TP 0.15 109.88 12.07 109.73

3+00 4.3 105.6 102.2 C3⁴

TP 0.04 97.10 12.82 97.06

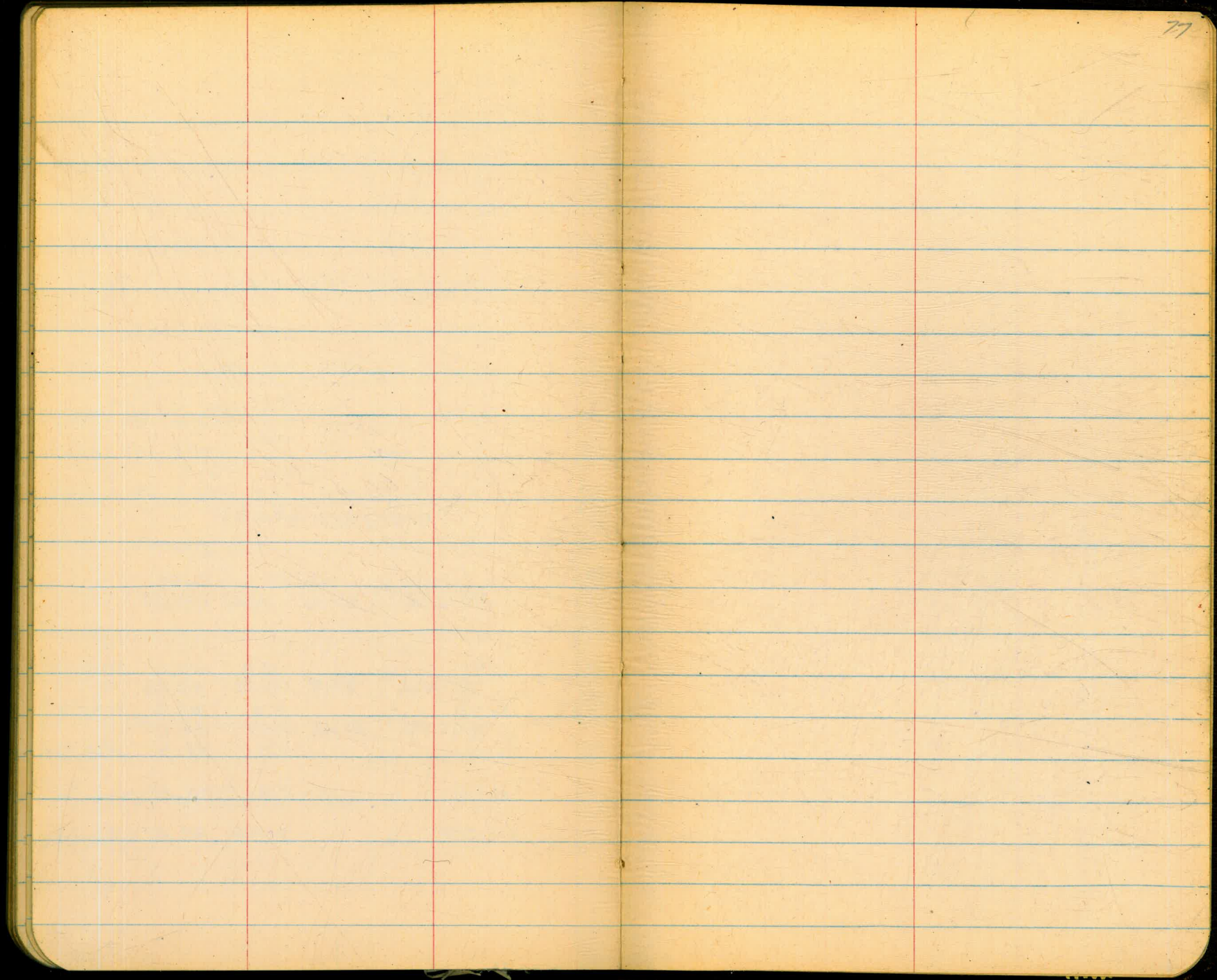
3+38 2.9 94.2 91.2 C3⁰

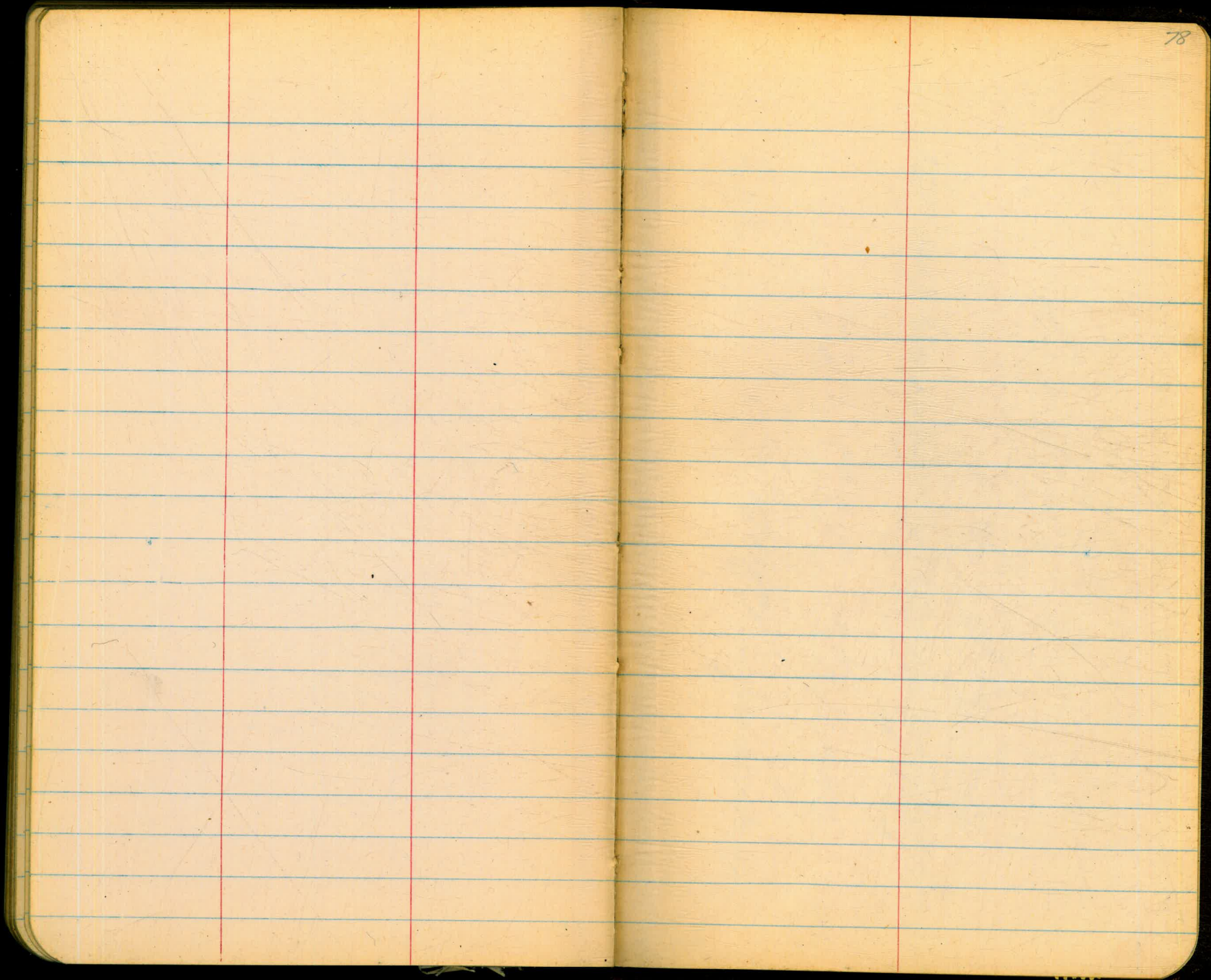
TP 2.76 86.81 13.05 84.05

3+88 7.9 78.9 76.4 C2⁵

C2⁸ ± 4+16 7.3 79.5 76.6 C2⁹ ±

CK. TBM 2.34 84.47 = 84.42





~~Howard~~ Bob:-

1/30/57

Could you boys state
Kew Terrace + Covington ST

on Cup: 27

RCP

0+05

0+50

+75

1+00

1+87

2+00

+24

+50

3+00

+50

4+00

+25

+50

+82

$\frac{W}{N}$

0+09 S

0+13 S

0+13 N

0+24 N ✓

0+95 N ✓

0+98 S ✓

1+11 N ✓

1+19 S ✓

2+77 N ✓

3+28 N ✓

3+31 S ✓

3+56 S ✓

3+68 N ✓

3+89 N ✓

4+07 S ✓

4+09 S ✓

4+43 S

4+48 S

4+76 N

4+77 S

~~Harvard~~ - Bob:-

1/30/57

could you boys state
Kew Terrace + Covington ST

on Cop. 27

PCP

0+05

0+50

+75

1+00

1+87

2+00

+24

+50

3+00

+50

4+00

+25

+50

+82

$\frac{w}{n}$

0+09 S

0+13 S

0+13 N

0+24 NV

0+95 NV

0+90 SV

1+11 NV

1+19 SV

2+77 NV

3+28 NV

3+31 SV

3+56 SV

3+68 NV

3+89 NV

4+07 SV

4+09 SV

4+43 S

4+48 S

4+76 N

4+77 S

102
30
30.60
84.5
115.1

1033
21
033
66
.693 = 0.17

12345678910

11.1
10.8
3

86.4
80.5
5.9

102
29
918
204
2338
34.5
11408

12.18
6.93
5.54

80.5
5.9
86.4
28
25
190
36
700

4.85
7.62
12.47 0.17

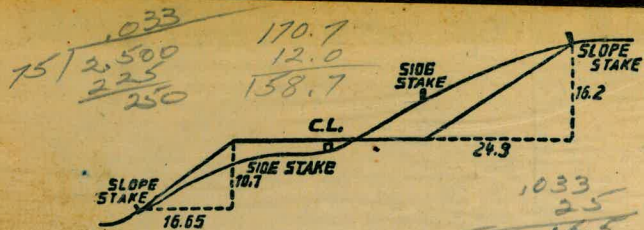
123.2
91.2
32.0

7.18
+ 5.28
12.46
5.24

281
113 | 32.000
220
940
924
160

12.46
5.58
6.88 = 0.98

10.46
5.87
6.59 = 0.78
69



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 |

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