

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 |

Distance of side 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.

Please Return to
City of San Diego Water Dept.
Room 903 Civic Center
Telephone F-7511 Ext. 313

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 | 4.85 | 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 | .029 | .032 | .035 | .039 | .043 | .047 | .051 |
| 20° | .006 | .011 | .017 | .022 | .028 | .034 | .038 | .045 | .051 | .057 | .063 | .070 | .076 | .083 |
| 25° | .009 | .018 | .027 | .038 | .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 | .887 | 1.07 | 1.18 | 1.29 | 1.39 |
| 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 |

BOOK Turned in for indexing
8-28-1950 com.

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Estelle to Alice ✓

Profile Archer St West From

Lajolla Drive

10-20

King
Shipman
West

2

BM 11.91 121.87 109.96 MDN North end Archer

4+80 11.1 110.8 106.0 4.8

4+50 10.4 111.5 106.9 4.6

4+00 8.8 113.1 108.3 4.8

3+50 6.8 115.1 109.7 5.4

3+00 6.1 115.8 111.1 4.7

2+50 5.3 116.6 112.5 4.1

2+00 3.7 118.2 114.0 4.2

1+50 1.8 120.1 115.2 4.9

1+00 0.1 121.8 116.9 4.9

T.P 4.99 126.38 048 121.39

6+50 3.2 123.1 118.2 4.9 F.H.R. 5.3 128.2 5.0 123.2 123.2 C90

0+00 Popline 3.5 122.9 119.6 4.7 F.H.S. 4.7 123.5 123.2 C93

B.M. 11.52 114.86 114.85

0+00 5.71 128.6 122.9

F.H.R. 5.5 123.1 123.5

5' off 5.2 123.4 123.5

FO²FO² - this is good - 10-20-49

Profile - 4' offsets - on 6" P.h.
#gate st.

King 10-26-49
West
Shipman

3

| | 0.16 | 115.01 | | 114.85 | | cat |
|--------|------|--------|-------|--------|-------|-----|
| 0+00 | | | 3.1 | 111.9 | 108.5 | 4.0 |
| 0+50 | | | 3.4 | 111.6 | 107.0 | 4.0 |
| 1+00 → | | | 4.6 | 110.4 | 105.5 | 4.9 |
| 1+50 | | | 6.2 | 108.8 | 104.0 | 4.8 |
| 2+00 | | | 7.8 | 107.2 | 102.5 | 4.7 |
| 2+50 | | | 9.3 | 105.7 | 101.0 | 4.7 |
| 3+00 | | | 10.8 | 104.3 | 99.4 | 4.9 |
| 3+50 | | | 11.9 | 103.2 | 97.9 | 5.3 |
| 4+00 | | | | | | |
| T.P. | 8.98 | 112.06 | 11.93 | 103.08 | | |
| 4+50 | | | 10.8 | 101.3 | 96.6 | 4.7 |
| 4+50 | | | 11.8 | 100.3 | 94.9 | 5.4 |
| 4+80 | | | 12.9 | 99.2 | 94.0 | 5.2 |

| | | | | |
|------|------|--------|------|------------------|
| T.P. | 7.52 | 116.31 | 3+27 | 108.79 |
| B.M. | | | 1+45 | 114.86 114.85 |

ctod 5.3 117.2

F.H. 4

F.H. 5.0

| | | |
|-----|-------|-------------|
| | 111.9 | |
| 4.5 | 112.9 | 112.6 Co. 3 |
| 4.6 | 112.6 | 112.6 00 |

Profile -
Meter Boxes Agate St

10-21-49
King
West
Shipman

7

| B.M. | | | | | Cut | |
|------------|------|--------|--------|----------------------------------|-------|-----|
| | 0.35 | 115.20 | 114.85 | Conc Man. Agate & La Jolla Drive | | |
| 0+72.4 #1 | | | 4.3 | 110.9 | 110.5 | 0.4 |
| #2 | | | 4.3 | | | |
| 1+71.4 #3 | | | 5.8 | 109.4 | 108.2 | 1.2 |
| #4 | | | 5.8 | | | |
| 1+79.8 #5 | | | 6.1 | 109.1 | 107.9 | 1.2 |
| #6 | | | 6.1 | | | |
| 2+50.4 #7 | | | 9.9 | 105.3 | 105.2 | 0.1 |
| #8 | | | 9.9 | | | |
| 3+68.9 #9 | | | 12.1 | 103.1 | 102.1 | 1.0 |
| #10 | | | 12.1 | | | |
| T.P | 4.40 | 106.95 | 12.85 | 102.35 | | |
| LT #11 | | | 5.7 | 101.3 | 100.7 | 0.6 |
| #12 | | | 5.7 | | | |
| 4+60.4 #13 | | | 6.7 | 100.3 | 99.2 | 1.1 |
| #14 | | | 6.7 | | | |
| CK 4+50 | | | 6.7 | 100.3 | | |

Cuts - Meter Boxes
 Archer St. West of La Jolla Mesa
 Drive

10-28-49
 King
 Shipman
 West

5

| B.m. | 3-30 | 127.74 | | 124.44 | Meter Box - N.W. Cor. | |
|----------|------|-----------------------------|-------|--------|-----------------------|-------|
| 0+40 Lt. | | | 4.8 | 122.9 | 122.9 | 0.0 |
| | | | 4.8 | 122.9 | | |
| 0+77 Rt. | | | 2.9 | 124.8 | 122.5 | 2.3 |
| | | | 2.9 | | | |
| 0+79 Lt. | | | 5.8 | 122.1 | 121.9 | 0.2 |
| | | | 5.6 | | | |
| 1+20 Lt. | | | 6.7 | 121.0 | 120.7 | 0.3 |
| | | | 6.7 | | | |
| 1+70 Rt. | | | 6.5 | 121.2 | 119.7 | C 1.5 |
| | | | 6.5 | | | |
| 2+98 Lt. | | | 9.5 | 118.2 | 118.4 | F 0.2 |
| | | | 9.5 | | | |
| 3+25 Lt. | | | 12.6 | 115.1 | 114.5 | C-0.6 |
| | | | 12.6 | | | |
| 3+31 Rt. | | | 11.5 | 116.2 | 114.9 | 1.3 |
| | | | 11.5 | | | |
| T.P. Lt. | 5.99 | 118.88 120.84 | 12.89 | 114.85 | | |
| | | | 13.0 | | | |

120.04
~~78.88~~

cut

3470 Lt

6.7

114.1

113.2

0.9

6.7

3481 Rt

5.7

115.1

113.4

1.7

5.7

4433 Rt

7.3

113.5

111.8

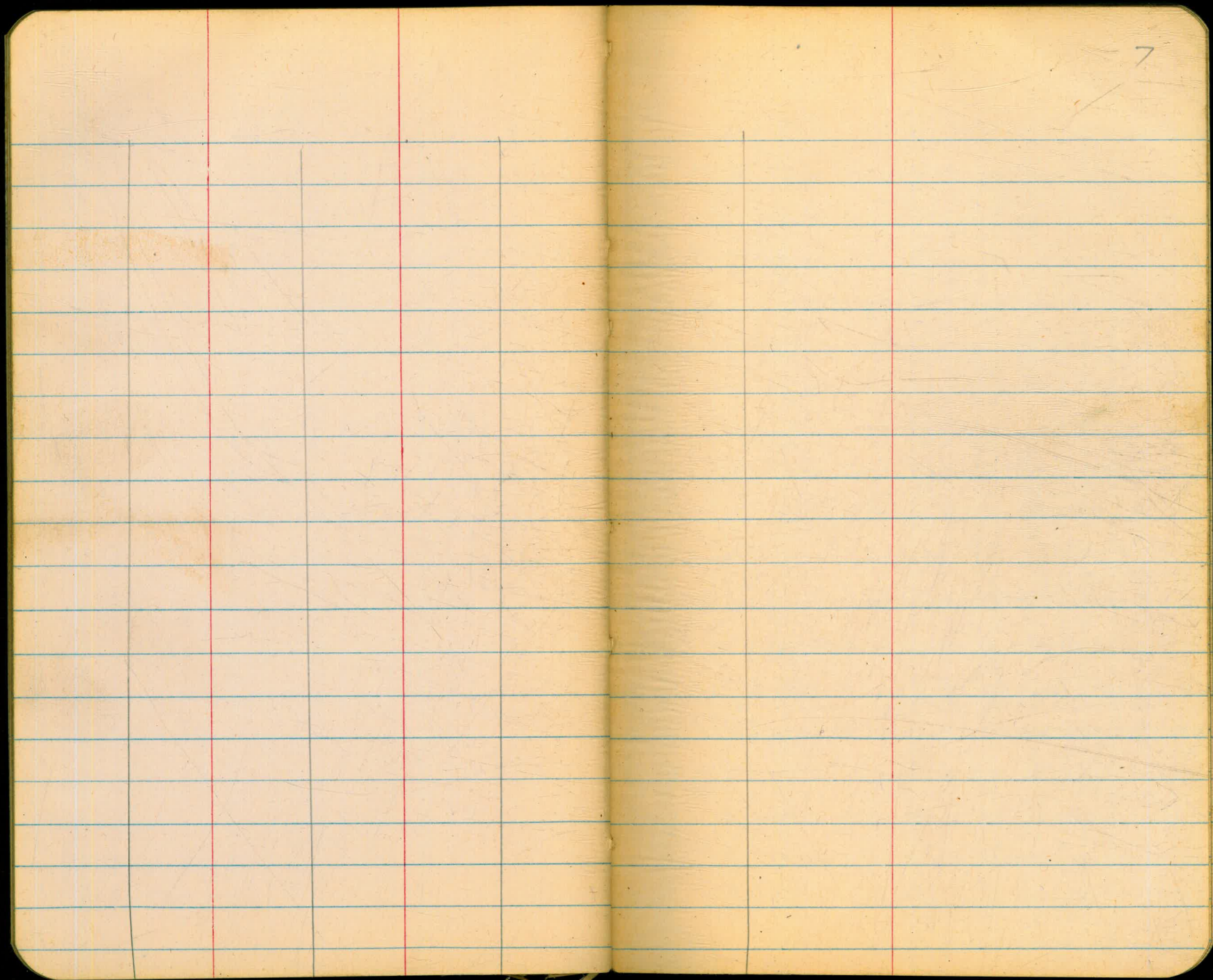
1.7

7.3

CK 2750

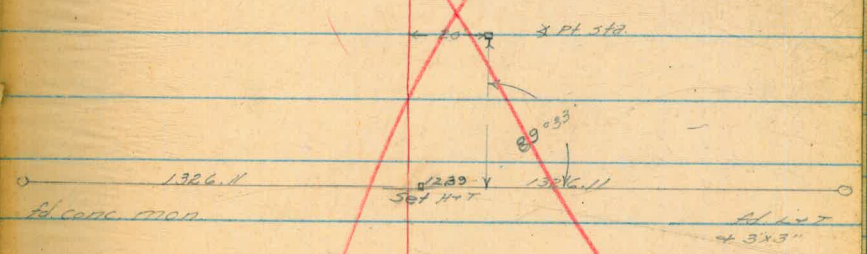
11.28

116.50



East line of Charleston

Pl. 1199



Pl. 1187

meter boxes
Van Nuys West Catalina Drive

King 10-28-49
Shipman
West

9

| | | | | | | |
|---------|------|--------|------|-------|-------|------|
| B.m. | 4.00 | 140.80 | | 136.8 | - | 1400 |
| 1406 Rt | | | 2.2 | 138.6 | 136.7 | 1.9 |
| | | | 2.2 | | | |
| 1492 Rt | | | 6.3 | 134.6 | 133.3 | 1.3 |
| | | | 6.2 | | | |
| 2+22 Lt | | | 9.1 | 131.7 | 131.6 | 0.1 |
| | | | 9.1 | | | |
| 2+42 Rt | | | 7.0 | 133.8 | 131.3 | 2.5 |
| | | | 7.0 | 133.8 | | |
| 2+85 Lt | | | 11.0 | 129.8 | 129.1 | 0.7 |
| | | | 11.0 | | | |
| 2+90 Rt | | | 8.5 | 132.3 | 129.4 | 2.9 |
| | | | 8.5 | | | |
| 3+30 Lt | | | 12.1 | 128.7 | 127.3 | 1.4 |
| | | | 12.1 | | | |
| 3+98 Rt | | | 12.5 | 128.3 | 125.0 | 3.3 |
| | | | 12.5 | | | |
| 4+40 Rt | | | 14.4 | 126.4 | 123.2 | 3.2 |
| | | | 14.4 | | | |
| | | | 8.2 | 132.8 | | |

Profile - offsets
Opal St. Cass to Mission Blvd

King
Shipman
West 12-12-49

10

B.M. 12.20 102.66 90.46

S.E. Cor curb Return

10+50 1.5 101.2 100.8

5.0
~~4.4~~

10+00 1.7 101.0 100.0

5.0

5.3

T.P. 1.74 102.66 1.74 100.92

3.9

4.1

9+50 2.5 100.2 98.9

5.3

9+00 3.2 99.5 98.0

5.5

8+50 4.2 98.5 97.0

5.5

8+00 5.1 97.6 96.2

5.4

7+50 5.9 96.8 95.4

5.4

7+00 6.7 96.0 94.3

5.7

6+50 8.2 94.5 93.5

5.0

6+00 9.0 93.7 92.5

5.2

5+50 10.2 92.5 91.6

5.4

5+00 11.2 91.5 90.1

5.4

4+50 12.6 90.1 89.2

4.9

T.P. 0.71 90.82 12.53 90.11

9082

| | | | |
|------|------|------|------|
| 4+00 | 1.9 | 88.9 | 87.9 |
| 3+50 | 3.2 | 87.6 | 86.8 |
| 3+00 | 4.2 | 86.6 | 85.7 |
| 2+50 | 4.9 | 85.9 | 84.0 |
| 2+00 | 5.5 | 85.3 | 83.4 |
| 1+50 | 6.4 | 84.4 | 82.1 |
| 1+00 | 7.7 | 83.1 | 81.1 |
| 0+50 | 8.7 | 82.1 | 79.8 |
| 0+00 | 12.0 | 78.8 | 78.8 |

CR - so carb 12.0 78.82 78.8

6+50 5.1 99.6 94.5

F.H. 5.7 93.9 93.5

| | | | |
|------|-----|------|------|
| Carb | 5.1 | 83.9 | 78.8 |
| | 3.9 | 80.0 | 79.0 |
| | 7.6 | 76.3 | |

5.0
4.8
4.8
5.9
5.9
6.3
6.0
6.3

20.4

9082
11.8
2.77

79.0
74.3
4.7

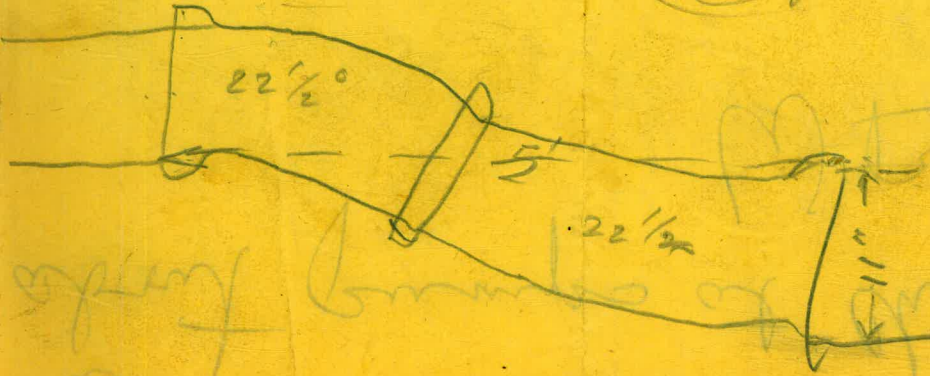
LH Please see me
about pumps at Chollas.

WB

18435 2" w.

College

3/5
9
8
3
59



for the road
H L
6
to
the
road
H L
6

Profile - 40 sets
Reed St. - Gresham - Dawes

| | | | | | |
|------|------|-------|-------|-------------------------|------|
| B.M. | 9.44 | 30.61 | | 21.17 | |
| T.P. | 2.77 | 37.16 | 0.82 | 29.79 | |
| 0+00 | | | 6.0 | 31.2 | 32.0 |
| 0+50 | | | 5.1 | 32.1 | 32.0 |
| 1+00 | | | 4.8 | 32.4 | 32.0 |
| 1+50 | | | 5.1 | 32.1 | 32.8 |
| 2+00 | | | 5.6 | 31.6 | 31.5 |
| 2+50 | | | 6.2 | 31.0 | 31.1 |
| 3+00 | | | 6.6 | 30.6 | 30.8 |
| 3+50 | | | 7.3 | 29.9 | 30.0 |
| 4+00 | | | 8.1 | 29.1 | 29.3 |
| 4+50 | | | 9.0 | 28.2 | 28.7 |
| 5+00 | | | 9.8 | 27.4 | 27.9 |
| 5+50 | | | 10.7 | 26.5 26.8 | 28.0 |
| T.P. | 1.47 | 27.92 | 10.71 | 26.45 | |
| 6+00 | | | 2.2 | 25.7 | 25.7 |
| 6+50 | | | 2.9 | 25.0 | 25.1 |
| 7+00 | | | 3.0 | 24.9 | 25.1 |
| 7+50 | | | 3.5 | 24.4 | 24.4 |

King
West
Shipmen

12-2-49

12

N.W. cor Gresham & Pacific Beach Rd

| | |
|-----|------|
| 4.8 | 31.2 |
| 4.2 | 5.3 |
| 4.0 | 36.5 |
| 4.3 | 4.1 |
| 4.1 | 32.4 |
| 4.1 | 32.0 |
| 4.1 | 36.5 |
| 4.3 | 60.4 |
| 4.1 | 3.9 |
| 4.3 | 32.6 |

2792

| | | | | | | |
|-------|------|-------|------|-------|------|-----|
| 8700 | | | 4.2 | 23.7 | 23.8 | 4.1 |
| 8950 | | | 4.9 | 23.0 | 23.4 | 4.5 |
| 9400 | | | 5.6 | 22.3 | 22.8 | 4.5 |
| 9750 | | | 6.6 | 21.3 | 22.1 | 4.6 |
| 10400 | | | 7.6 | 20.3 | 21.4 | 4.9 |
| 10750 | | | 8.2 | 19.7 | 20.8 | 4.9 |
| 11400 | | | 8.9 | 19.0 | 20.2 | 5.0 |
| 11450 | | | 9.3 | 18.6 | 19.5 | 4.8 |
| 12700 | | | 9.8 | 18.1 | 18.8 | 4.6 |
| T.P | 2.91 | 21.04 | 9.79 | 18.13 | | |
| 12450 | | | 3.2 | 17.8 | 18.2 | 4.5 |
| 13100 | | | 3.4 | 17.6 | 17.4 | 4.2 |
| 13450 | | | 4.2 | 16.8 | 16.4 | 4.4 |
| 14400 | | | 5.6 | 15.4 | 15.3 | 4.3 |
| 14750 | | | 7.6 | 13.4 | 13.9 | 4.5 |
| 15400 | | | 8.7 | 12.3 | 12.8 | 4.5 |
| 15450 | | | 9.7 | 11.3 | 11.8 | 4.5 |
| 16400 | | | 10.1 | 10.9 | 10.6 | 4.1 |
| 16450 | | | 10.2 | 10.8 | 10.4 | 4.1 |

13

| |
|----------------------|
| 19.0 |
| 2.0 |
| 21.8 |
| 3.2 |
| 19.6 |
| OFF 19.7 |
| 21.8 19.2 |

21.04

17400

10.6

10.4

10.1

4.1

17420

10.8

10.2

10.0

4.1

11.42

09.62

F.H.

3.1

12.7

09.62

3.1

09.6

09.5

3.2

09.5

09.5

Meter Boxes
Gresham - Fannell ON Reef

KING
Shipman
West

12-29-49

15

| Ginney 5450 | 8.57 | 35.02 | 26.45 | | |
|----------------|------|------------|-------|------|-----|
| | | South Side | | | |
| 393' W | | 6.4 | 28.6 | 28.2 | 0.4 |
| E | | 6.3 | 28.7 | 28.2 | 0.5 |
| 349 W | | 5.7 | 29.3 | 29.0 | 0.3 |
| E | | 5.7 | 29.3 | 29.0 | 0.3 |
| 302 W | | 4.9 | 30.1 | 29.4 | 0.7 |
| E | | 4.9 | 30.1 | 29.4 | 0.7 |
| 229 W | | 4.2 | 30.8 | 30.5 | 0.3 |
| E | | 4.2 | 30.8 | 30.5 | 0.3 |
| 179 W | | 3.9 | 31.1 | 31.2 | 0.1 |
| E | | 3.9 | 31.1 | 31.2 | 0.1 |
| 109 W | | 2.5 | 32.4 | 31.6 | 0.8 |
| E | | 2.6 | 32.4 | 31.6 | 0.8 |
| 21' W | | 2.2 | 32.8 | 31.9 | 0.9 |
| E | | 2.2 | 32.8 | 31.9 | 0.9 |
| | | No. Side | | | |
| 90' E | | 2.0 | 33.0 | 32.6 | 0.4 |
| W | | 2.2 | 32.8 | 32.6 | 0.2 |

343

350

357

35.02

| | | | | | |
|-----|---|-----|------|------|-------|
| 120 | F | 2.3 | 32.7 | 32.6 | 0 0.1 |
| | W | 2.3 | 32.7 | 32.6 | 0 0.1 |
| 249 | E | 3.6 | 31.4 | 31.2 | 0 0.2 |
| | W | 3.6 | 31.4 | 31.2 | 0 0.2 |
| 272 | F | 4.1 | 30.9 | 30.9 | 0 0.0 |
| | W | 4.1 | 30.9 | 30.9 | 0 0.0 |
| 359 | F | 5.5 | 29.5 | 29.6 | F 0.1 |
| | W | 5.5 | 29.5 | 29.6 | F 0.1 |
| 416 | F | 6.2 | 28.8 | 29.0 | F 0.2 |
| | W | 6.2 | 28.8 | 29.0 | F 0.2 |

Meter Boxes
Reed St. - Fauxel - Everett

King-Notes
Shipman T
West

12.30.99
clear

So. Side

| | | | | | |
|-------------|------|-------|------|-------|-------|
| 91141295452 | 1.58 | 28.03 | | 26.45 | |
| 136' | | 3.6 | 24.4 | 23.8 | C.0.6 |
| 176' | | 4.3 | 23.7 | 23.2 | C.0.5 |
| 224' | | 4.6 | 23.4 | 22.6 | C.0.8 |
| 310' | | 6.2 | 21.8 | 21.4 | C.0.4 |
| 360' | | 7.2 | 20.8 | 20.9 | F.0.1 |
| 428' | | 8.2 | 19.8 | 20.0 | F.0.2 |
| | | No. | | | |
| 428' | | 7.2 | 20.8 | 21.0 | F.0.2 |
| 390' | | 7.2 | 20.8 | 21.4 | F.0.6 |
| 328' | | 6.0 | 22.0 | 22.3 | F.0.3 |
| 300' | | 5.2 | 22.2 | 22.6 | F.0.4 |
| 210' | | 4.4 | 23.6 | 23.8 | F.0.2 |
| 198' | | 4.7 | 23.3 | 24.0 | F.0.7 |
| 102' | | 2.7 | 25.3 | 25.2 | C.0.1 |
| 33' | | 0.4 | 27.6 | 26.0 | C.1.6 |
| 5145600 | | 1.58 | | 26.45 | |

Meter Boxes
Everts-Dawson
ON Reed

1-4-50

King
West
Shipman

clear
Cold

18

| | | | | | |
|-----------------|-----|---------------|-------|-------|-----|
| GINNEY 428' | 356 | 23.36 | | 79.80 | |
| 225' So. side | | 0.8 | 22.6 | 22.0 | 0.6 |
| Everst - Fanned | | So. side - | | | |
| 28' | | 5.1 | 18.3 | 17.5 | 0.8 |
| 95' | | 5.8 | 17.6 | 16.0 | 1.6 |
| 171' | | 7.2 | 16.2 | 14.8 | 1.4 |
| 228' | | 9.7 | 13.7 | 14.0 | 0.3 |
| 280' | | 11.0 | 12.4 | 12.0 | 0.4 |
| 368' | | 12.5 | 10.9 | 10.8 | 0.1 |
| 438' | | 12.7 | 10.7 | 10.4 | 0.3 |
| 492' | | No. side 13.0 | 10.4 | 10.2 | 0.2 |
| | | No. side | | | |
| 480' | | 12.3 | 11.1 | 11.2 | 0.1 |
| 415' | | 11.6 | 11.8 | 11.8 | 0.0 |
| 370' | | 11.3 | 12.1 | 12.3 | 0.2 |
| 230' | | 8.4 | 15.0 | 15.0 | 0.0 |
| 107' | | 4.6 | 18.8 | 17.8 | 1.0 |
| 7' | | 4.1 | 19.3 | 19.6 | 0.3 |
| | | 2.52 | 20.80 | | 1.0 |

Lowering of 16" P.L.
Camino del Rio - Sta 17+25 City Sta. =
Sta-133+00 New Co. Highway

File 5052

OFFsets .5' South
Set by Pipe Finder

9379

8767

45.95

City P.P. # 7198A - 57' left 133-Co Sta.

Figs. checked by JH 9-26-50

also

checked to Plans

King 1-27-50

Shipman
West

dear
old

19

| B.M. | 3.42 | 91.09 | | 9379 8767 | 45.95 | |
|-------|------|-------|--------|--------------|--------|--|
| 17+25 | | 7.7 | 83.4 ✓ | 78.6 ✓ | 4.8 ✓ | |
| 17+75 | | 7.2 | 83.9 ✓ | 78.1 ✓ | 5.7 ✓ | |
| 18+25 | | 6.8 | 84.3 ✓ | 77.5 ✓ | 6.8 ✓ | |
| 18+75 | | 6.3 | 84.8 ✓ | 77.0 ✓ | 7.8 ✓ | |
| 19+25 | | 5.9 | 85.2 ✓ | 76.5 ✓ | 8.7 ✓ | |
| 19+75 | | 5.7 | 85.4 ✓ | 75.5 ✓ | 9.9 ✓ | |
| 20+25 | | 5.7 | 85.4 ✓ | 74.5 ✓ | 10.9 ✓ | |
| 20+75 | | 5.9 | 85.4 ✓ | 73.2 ✓ | 12.2 ✓ | |
| 21+25 | | 5.5 | 85.6 ✓ | 72.0 ✓ | 13.6 ✓ | |

NO.

SUB NO 1710

THIS ORDER NOT VALID UNLESS
PURCHASE ORDER NUMBER IS SHOWN.

COUNTY OF SAN DIEGO
PURCHASING DEPARTMENT
SUB-ORDER
SAN DIEGO, CALIFORNIA

DESIGNED BY THE AUTHORITY OF A COUNTY
CH IS SHOWN IN ADDITION TO SUB-ORDER

DEPT.

19
Clear
fold

King
1-27-50
Shryman
West.

Lowering of 16" P.L.
Camino del Rio - Sta M + 25 City Sta. =
Sta - B3700 New

Offsets 5' South
Set by Pipe Finder

| | | | |
|------|-------|-----|------|
| 3.42 | 91.09 | 7.7 | 83.4 |
| 7.5 | | 7.2 | 83.9 |
| 2.5 | | 6.8 | 84.3 |
| 7.5 | | 6.3 | 84.8 |
| 5 | | 5.9 | 85.2 |
| 7.5 | | 5.7 | 85.4 |
| 2.5 | | 5.7 | 85.4 |
| 5 | | 5.7 | 85.4 |
| 2.5 | | 5.3 | 85.6 |

NO. 0
PURCHASE ORDER

SAN DIEGO, CALIFORNIA
SUB-ORDER
PURCHASING DEPARTMENT
COUNTY OF SAN DIEGO
TRIPPLICATE

From Mr. Schopp
26 Sept 50

Chris.

Please look in the Field Book #958
and let me know sta and plus of

Fe Pole # 79188 at about 133 + 50 ±
+ 59

56 RT

FORM 103-B 80 BKS 8-46 RJW

DATE OF ORDER

| | | |
|-------|-----|------|
| MONTH | DAY | YEAR |
| | | |

COUNTY OF SAN DIEGO
 PURCHASING DEPARTMENT
SUB-ORDER
 SAN DIEGO, CALIFORNIA

NO. _____
SUB N^o 1710

TO

NAME OF FIRM

ADDRESS

THIS ORDER NOT VALID UNLESS PURCHASE ORDER NUMBER IS SHOWN.

PLEASE FURNISH THE FOLLOWING TO THE UNDERSIGNED ON THE AUTHORITY OF A COUNTY PURCHASE ORDER. THE NUMBER OF WHICH IS SHOWN IN ADDITION TO SUB-ORDER NUMBER.

SHOW BOTH PURCHASE ORDER AND SUB NUMBERS ON YOUR INVOICE.

SEE OTHER INSTRUCTIONS BELOW.

CHARGE TO: COUNTY OF SAN DIEGO,

NAME OF INSTITUTION

CARE OF

LOCATION

| | |
|-----------|--------|
| DEPT. | |
| SUB DEPT. | |
| FUND | APPRO. |
| SUB ACCT. | |

NOTE -- Do NOT USE THIS SUB-ORDER FOR PURCHASING MATERIALS TO BE USED ON CAPITAL OUTLAYS.

| QUANTITY | UNIT OF | DESCRIPTION | PRICE | UNIT OF | DISCOUNTS |
|----------|---------|-------------|-------|---------|-----------|
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

Fig's checked by Phil 9-26-50
also checked to Plans
 2 PPL 71988-571 keff 133-50 Sta.
 1-27-50
 19
 clear
 bid

Lowering - 16" P.L.
Camino-Del Rio - 2191725 - 22175

91.09

21475 5.4 85.7 ✓ 72.0 ✓ 13.7 ✓

22425 5.6 85.5 ✓ 76.5 ✓ 9.0 ✓

22435 5.6 85.5 ✓ 78.5 ✓ 7.0 ✓

22475 5.6 85.5 ✓ 81.2 ✓ 4.3 ✓

B.M. 3.42 87.67 ✓

B.M. 2.70 90.37 87.67

4.85 85.52 84.90

2.70 87.67

King
West
Shipman

1-27-50

Clear
Cold

30

City Datum

cut

.62 - Air Valve - West End lowering 16" P.L.

6" P.L. Dawson St.
Trojan - El Cajon
Profile - 4' OFFSETS

King
West
Shipman

3-8-50

clear.

21

383.05

B.M. 2.34 389.16 386.82

B.P.S.W. Cor. 5' x El Cajon

8+40.7 5.2 384.0 384.5 3.5

8+00 8.6 380.4 381.4 3.5

T.P. 0.54 376.65 13.05 376.11

Prop. Line El Cajon

70' 40'

7+50 0.5 376.2 377.2 3.5

7+00 5.0 371.7 372.9 3.5

6+50 9.2 367.5 368.6 3.5

T.P. 0.17 363.90 12.92 363.73

6+00 0.7 363.2 364.4 3.5

5+50 5.2 358.7 360.0 3.8

Prop. Line

Dawson St

Prop. Line

~ 0+00

Trojan St

6" P.L.

Dawson - El Cajon to Tipton

4' offset

363.90

King
west of
Shipman

3-8-50

Clear

22

| | | | | | | |
|------|------|--------|-------|---------------------------|-------|-----|
| 5700 | | | 9.1 | 354.8 355.8 | 355.8 | 3.5 |
| 4750 | | | 12.9 | 351.9 | 351.7 | 3.8 |
| T.P. | 0.65 | 351.61 | 12.94 | 350.96 | | |
| 4400 | | | 4.3 | 347.3 | 348.0 | 3.5 |
| 3750 | | | 7.8 | 343.8 | 344.4 | 3.5 |
| 3100 | | | 11.1 | 340.5 | 341.0 | 3.6 |
| T.P. | 0.21 | 339.27 | 12.55 | 339.06 | | |
| 2750 | | | 2.2 | 337.1 | 337.4 | 3.7 |
| 2100 | | | 5.5 | 333.8 | 334.6 | 3.5 |
| 1750 | | | 7.9 | 331.4 | 332.4 | 3.5 |

6" P.L. Dawson
El-Cajon-Trajan

King
West
Shipman

3-8-50

Clear

23

339.27

1400 9.5 329.8 330.9 3.5

0+52 10.7 328.6 329.4 3.7

0400 11.7 322.6 327.5 4.0

F.H. 4.0 337.8 333.8

GINNEY-2400

2+12 2.7 335.1 335.2

Fol 11 8 F.H.

5' OFF 2.4 335.4 335.2

CO. 211 5' OFFSET

F.H. 5.8 386.4 380.6

El-Cajon & Dawson - S.E. Cor 8423

4 2.6 383.8 383.4

CO. 4

5' OFF 2.2 384.2 383.4

CO. 8

Burch St. 8" R.L. 10'S & E. E

4' offsets -
Vesta St. - 40th St

KING
SHIPMAN +
WEST

3-17-58 - clear.

24

B.M. 175 54.81 53.06 N.W.B.P. 404 Epsilon

T.P. 0.92 42.81 12.92 41.89

TP 288 32.70 12.93 29.88

18+00 11.9 20.8 21.0 4.7

curb 11.7 21.0

17+50 9.4 23.3 4.2

curb 9.1 23.6 23.8

17+00 6.4 26.3 26.8 4.2

curb 6.1 26.6

16+50 3.3 29.4 29.8 4.2

curb 3.0 29.7

16+00 0.4 32.3 32.8 4.2

curb 0.1 32.6

Burch st. 8" R.L.

King
Shipman
West

3-17-50

25

32.70

| | | | | | | |
|----------|------|-------|----------------|-------|------|-----|
| TP | | | | | | |
| | 9.99 | 42.27 | 0.42 | 32.28 | | |
| 15+50 | | | 7.1 | 35.2 | 35.8 | 4.0 |
| Curb | | | 6.6 | 35.7 | | |
| 15+50 | | | 4.9 | 37.4 | 37.4 | 4.2 |
| St. curb | | | | | | |
| 14+50 | | | 5.0 | 37.3 | 38.0 | 4.0 |
| Curb | | | 4.5 | 37.8 | | |
| 14+50 | | | 6.1 | 36.2 | 37.0 | 4.0 |
| Curb | | | 5.5 | 37.8 | | 4.0 |
| 13+50 | | | 7.9 | 34.4 | 35.0 | 4.0 |
| No curb | | | 9.8 | | | |
| 13+50 | | | 9.8 | 32.5 | 33.2 | 4.0 |
| | | | 9.3 | 34.0 | | |

Burch St. - 8' Pl.

King
Shipment
West

3-17-50

26

4227

| | | | | | | |
|-------|------|-------|-------|-------|------|-----|
| 12+50 | | | 11.6 | 30.7 | 31.4 | 4.0 |
| 12+00 | | | 12.4 | 29.9 | 30.0 | 4.4 |
| T.P. | 7.15 | 37.05 | 12.37 | 29.90 | | |
| 11+50 | | | 7.8 | 29.3 | 30.1 | 4.0 |
| 11+00 | | | 7.4 | 29.7 | 30.4 | 4.0 |
| 10+50 | | | 7.1 | 30.0 | 30.0 | 4.8 |
| 10+00 | | | 6.5 | 30.6 | 31.0 | 4.1 |
| 9+50 | | | 6.2 | 30.9 | 31.2 | 4.2 |
| 9+00 | | | 5.9 | 31.2 | 31.4 | 4.3 |
| 8+50 | | | 5.7 | 31.4 | 31.8 | 4.1 |

Burch St. 8" Pk.

KING
SHIPMENT
West

3-17-30

27

37.05

| | | | | | | |
|------|------|-------|------|-------|------|-----|
| 8+00 | | | 5.5 | 31.6 | 31.9 | 4.2 |
| 7+50 | | | 5.3 | 31.8 | 32.2 | 4.1 |
| 7+00 | | | 5.1 | 32.0 | 32.4 | 4.1 |
| 6+50 | | | 5.0 | 32.1 | 32.2 | 4.4 |
| 6+00 | | | 5.8 | 31.3 | 31.4 | 4.4 |
| 5+50 | | | 6.6 | 30.5 | 30.7 | 4.3 |
| 5+00 | | | 7.4 | 29.7 | 29.9 | 4.3 |
| 4+50 | | | 8.3 | 28.8 | 29.1 | 4.2 |
| 4+00 | | | 8.8 | 28.3 | 28.3 | 4.5 |
| RP. | 2.50 | 30.71 | 8.84 | 28.21 | | |

Durch St. 8 P.L.

KING
SHIPMENT
West

3-17-50

28

30.71

3450 3.3 27.4 27.6 4.3

3400 4.1 26.8 26.8 4.3

2750 4.8 25.9 26.0 4.4

2400 5.8 24.9 25.1 4.3

1750 6.5 24.2 24.4 4.3

1700 7.1 23.6 23.6 4.5

0750 7.7 23.0 22.8 4.3

0500 8.0 22.7 22.0 5.2

4.871 8.1 22.6

T.P. 10.18 40.57 0.32 30.39

9.00 41.57 curb

Bonita P.L.
Wabash Canyon
10' OFFSETS

King
West
Skipman

3-23-50 - clear-hot

29

T.B.M.

9.82

65.52

55.70

394+40⁰⁵

49.5

62

55.7

9.82

25.82

394+40⁰⁵

8.3

57.2

49.5

7.7

394+71¹⁹

7.7

57.8

51.4

6.4

395+62⁹³

6.1

59.4

53.4

6.0

395+31³⁴

3.5

62.0

56.0

6.0

T.P.

12.29

77.61

0.20

65.32

395+65⁰¹

11.6

66.0

60.1

5.9

196⁸⁸

6.8

70.8

63.9

6.9

396+28¹⁸

2.5

75.1

66.6

8.5

F.P.

10.86

88.43

0.04

77.57

Bonito P.L.

King
Skipman
West

3-24-50

28

| | + | 88.43 | - | | | |
|----------------------|-------|--------|------|-------|------|-------------------------|
| 396+59 ⁵⁸ | | | 9.5 | 78.9 | 67.5 | 11.4 10.4 |
| +80 | | | 8.8 | 79.6 | 67.5 | 12.1 |
| +96 ⁰¹ | | | 7.9 | 80.5 | 67.5 | 13.0 |
| 397+11 ⁹⁸ | | | 7.7 | 80.7 | 68.3 | 12.3 |
| 397+50 | | | 5.7 | 82.7 | 69.9 | 12.8 |
| 398+00 | | | 3.7 | 84.7 | 72.0 | 12.7 |
| 398+50 | | | 1.4 | 87.0 | 74.1 | 12.9 |
| T.P. | 12.36 | 100.06 | 0.73 | 89.70 | | |
| 399+00 | | | 10.8 | 89.5 | 76.0 | 13.3 |
| 396 ³⁵ | | | 8.7 | 91.4 | 72.6 | 13.8 |

Bonita P.L.

KING
West
Shipmen

3-24-57

71

40042982

| | | | | | | |
|----------------------|--------|--------|-------|---------------|------|------|
| | 100.06 | | | | | |
| 46763 | | | 7.4 | 92.7 | 81.6 | 11.1 |
| 3994986 | | | 5.9 | 94.2 | 87.0 | 7.2 |
| T.P. | 4.34 | 101.30 | 3.10 | 96.96 | | |
| 40042982 | | | 6.1 | 95.2 | 90.0 | 5.2 |
| 40046109 | | | 4.8 | 96.5 | 90.2 | 6.3 |
| 40049259 | | | 4.1 | 97.2 | 90.5 | 6.7 |
| 401404 ³⁵ | | | 3.5 | 97.8 | | |
| Q.T.P. | 4.54 | 101.54 | 4.30 | 97.00 96.0 | 96.0 | |
| T.P. | 0.59 | 89.46 | 12.67 | 88.87 | | |
| T.P. | 0.46 | 77.82 | 12.10 | 77.36 | | |

Box, 49 P.L.

77.82

| | | | | |
|------|------|-------|------|-------|
| T.P. | 0.87 | 65.81 | 1284 | 64.94 |
| | | -985 | 5596 | |

King
Shipman
West

3-24-50

37

5599-Top MAX-35^M & Bldg

Bonita Pl
 Profile Top P. pe
 After rain - Wabash Canyon

King
 Shipman K
 West

8-27-50

37

44.60

| Bm | 2.78 | 58.74 | | 55.96 | Top Sewer Mt. 35th Rdwy |
|-----------|------|---------------------------|---------------------------|-------|--|
| 392+00 | | 14.00 13.60 | 44.74 45.04 | | 55.96 + 2.95 58.91 Hi - 8.64 50.27 TIP + 0.15 56.42 Hi 44.60 11.82 |
| 392+43.00 | | 14.10 | 44.64 | | |
| 391+50 | | 13.8 | 44.94 | | |
| 391+00 | | 13.42 | 45.32 | | |
| 390+50 | | 13.40 | 45.34 | | |
| 396+00 | | 13.48 | 45.26 | | |
| 389+50 | | 13.66 | 45.08 | | |
| 389+00 | | 13.76 | 44.99 | | |
| 388+50 | | 13.74 | 45.00 | | |

3-27-50

34

Bonita P.L.
Profile Top Pipe
After rains

58.74

388+00

13.80

44.94

387+31.7

13.50

45.24

387+15

13.70

45.04

386+50

14.0

44.74

386+00

13.90

44.84

2.77

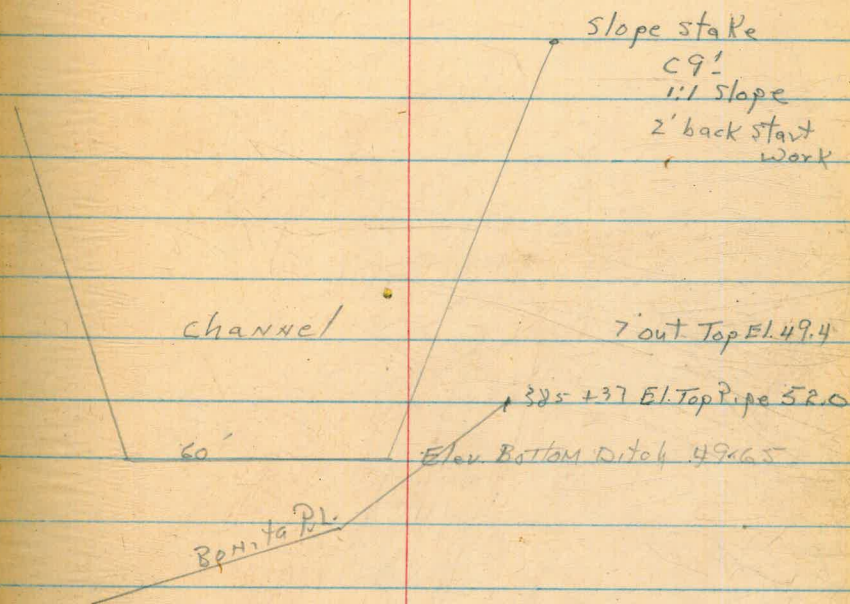
55.97

Bonita Pl.
Federal St. Inters + Channel

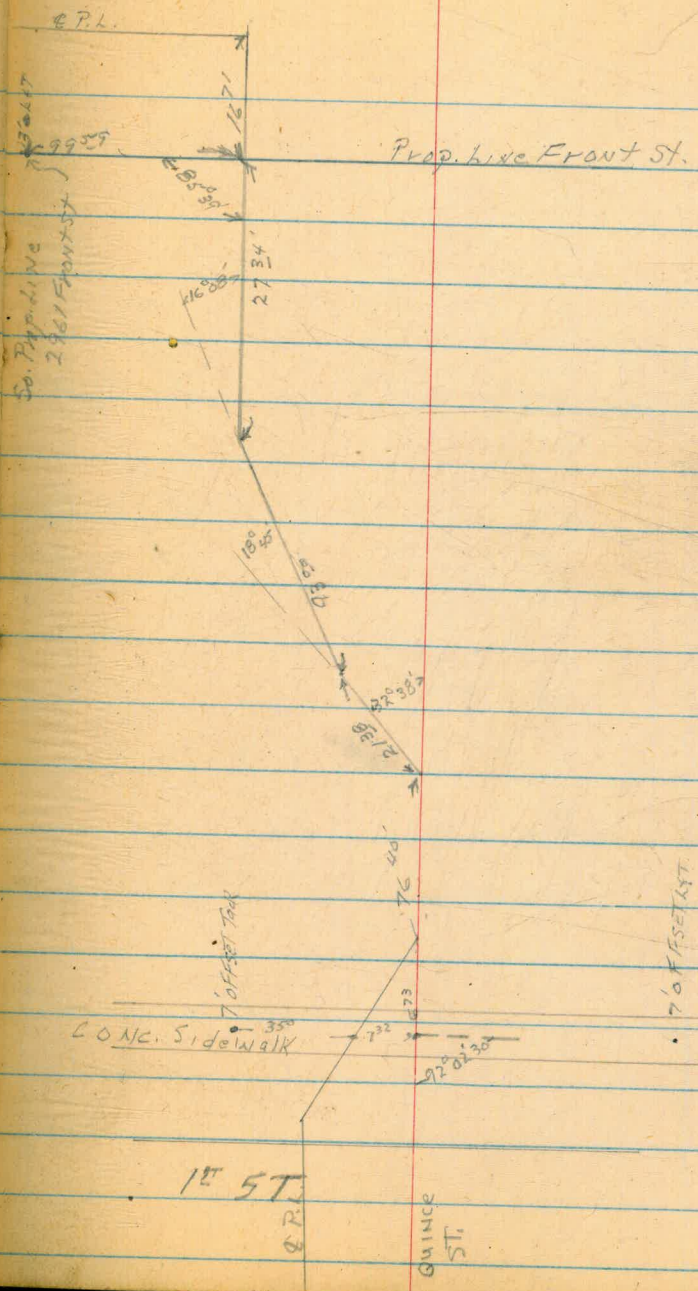
Rainey
King
Shipman
West

3-29-50

35



Transit P.L.
 Quince St. - 1st to Front St.
 Traverse as line was put in



Pacific Beach Drive
Haynes-Promontory
8" Cast Iron

King
Shipman
West

5-12-50

37

B.M. 11.15 59.17 48.02

Top E.H. S.E. Cor Ingham - Pacific Beach Drive

0+00 12.3 46.9 47.0 4.2

0+50 11.3 47.9 47.7 4.4

Meter Boxes - No. Side cut

1+00 8.8 50.4 49.2 5.3

7.70 55.60

47.9

1+50 5.9 53.3 51.3 6.2

#1

3.2 52.4 50.6 1.8

2+00 4.2 55.0 52.7 6.4

#2

3.5 52.1 50.0 2.1

2+50 3.0 56.2 51.9 8.5

#3

7.4 48.0 47.2 0.8

2+90 3.8 55.4 51.0 8.6

11.15 48.02

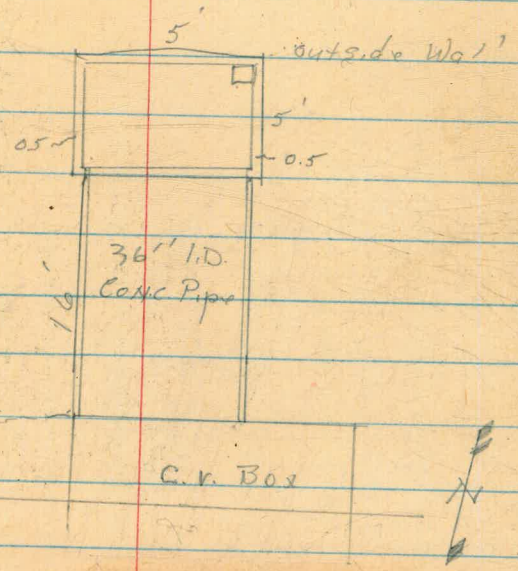
Sketch & Levels
 Box & Tunnel to q.v.
 6 St. & Mission Valley Rd.

King
 Shippman
 West
 5-10-50
 Clear
 30

| | | | | |
|----------|-------|-------|-------|------|
| Elev. | 10.90 | 29.80 | | 18.9 |
| N.E. Cor | | 4.50 | 25.30 | 17.9 |
| S.E. Cor | | 4.15 | 25.65 | 17.8 |
| S.W. Cor | | 4.46 | 25.34 | 17.7 |
| N.W. Cor | | 4.27 | 25.53 | 17.8 |

Bottom G.V. Chamber - Top old Floor

7.40
 7.85
 7.64
 7.73



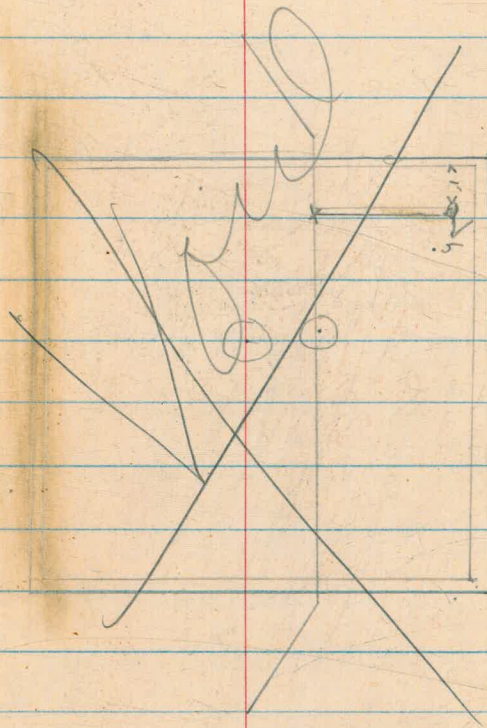
Grades to Sub grade

Top Deck 25'

P.L.

G.V. Box





43.76

350

KING
West
Shipman

5-16-50

Pressure Reg. + G.V. Box
Alvarado Pk. Near Texas St.

40

Box DIMENSIONS changed to F. + Horz. gate
1/4 Field

| | | | | |
|----------|------|-------|-------|-------|
| B.M. | 5.96 | 48.98 | 43.02 | |
| T.P. | 4.70 | 46.96 | 7.20 | 42.26 |
| N.E. Cor | | 3.56 | 43.40 | 35.10 |
| S.E. Cor | | 5.45 | 41.51 | 35.30 |
| S.W. Cor | | 5.12 | 41.54 | 35.10 |
| N.W. Cor | | 3.53 | 43.43 | 34.60 |

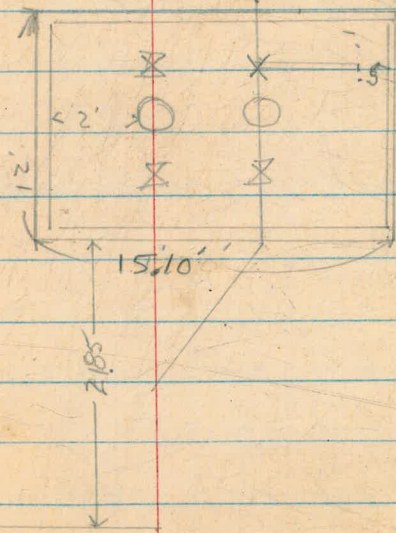
Top Floor Sub-grate

8.30 - 8.97

6.21 - 6.88

6.44 - 7.11

8.83 - 9.50



Lowering & Relocation
 12" CI. Pipe
 Del Mar - Orchard
 Chatsworth

King
 Shipman
 West.

6-12-50

Clear

41

| B.M. | | | GINNEY | Top Curve |
|------|------|--------|--------|-----------|
| | 4.80 | 220.63 | | 215.83 |

ON IRON PIPE R.P.C. N.E. COR. Orchard & Chatsworth.

| | | | | | | |
|------|--|--|-----|-------|-------|-------------------|
| 3+60 | | | 9.9 | 210.7 | 211.4 | 4.8 |
| 3+20 | | | 8.5 | 212.1 | 212.9 | 4.8 5.0 |
| 2+80 | | | 7.2 | 213.4 | 214.0 | 4.8 |
| 2+40 | | | 6.9 | 213.7 | 215.0 | 4.8 |
| 2+00 | | | 6.2 | 214.4 | 215.8 | 4.75.0' 5' 70' |
| 1+60 | | | 5.7 | 214.9 | 216.2 | 5.3 58' x 17' 25' |
| 1+20 | | | 5.2 | 215.4 | 216.5 | 5.1 |
| 0+80 | | | 5.2 | 215.4 | 216.5 | 5.1 |
| 0+40 | | | 5.2 | 215.4 | 216.4 | 5.0 |
| 0+00 | | | 5.1 | 215.5 | 216.1 | 5.0 |

4.81 215.82

4.75 215.45 210.70

| | | | | | | |
|------|--|--|------|-------|-------|-------------------|
| 4+00 | | | 6.7 | 208.8 | 209.8 | 4.8 3.5 3.0 |
| +40 | | | 8.6 | 208.9 | 207.9 | |
| +80 | | | 10.4 | 205.1 | 205.8 | 3.0 |

End by R. H. Asher - 6-14-50

Coronado
Catalina - Chatsworth

RM9

- 670-50

42

| P.M. | 7.12 | 22295 | | 215.83 | | |
|-------------------|------|--------|-------------------------|--------|---------------------------|-----|
| 1-00 | | | 10.9 | 212.1 | 212.1 | 4.2 |
| 0-50 | | | 10.0 | 213.0 | 213.8 | 3.4 |
| 0+00 | | | 8.9 | 211.1 | 214.7 210.2 | 3.4 |
| F.H. 6405 | | | 8.2 | 214.8 | 214.8 | 0.0 |
| F.H. 5' offset | | | 8.3 | 214.7 | 214.8 | 0.1 |
| 0+50 | | | 8.1 | 214.9 | 215.8 | 3.4 |
| 1+00 | | | 7.1 | 215.9 | 216.8 | 3.7 |
| 1+50 | | | 7.1 | 215.9 | 216.7 | 3.4 |
| 2+00 | | | 7.4 | 215.5 | 216.5 | 3.4 |
| 2+50 | | | 7.9 9.0 | 215.1 | 216.0 | 3.0 |
| 3+00 | | | 9.0 10.3 | 214.0 | 214.9 | 3.4 |
| 3+50 | | | 10.3 11.8 | 212.7 | 213.5 | 3.4 |
| T.R. ↑ | 1.60 | 211.55 | 13.00 | 209.95 | | |
| 4+00 | | | 11.8 2.3 | 211.2 | 211.6 | 3.8 |
| 4+50 | | | 2.7 4.3 | 208.9 | 209.6 | 3.5 |
| 5+00 | | | 4.3 | 207.3 | 207.3 | 4.2 |

4.9

4.4

Coronado St.
Catalina - Chatsworth

King

6-20-50

43

21155

| | | | | | | | |
|---------|-----------------------------------|--------|-------|--------|--------|--------|---|
| 5+30-FH | | | 4.8 | 206.8 | 206.0 | E. 0.8 | } Replaced 6/27/50 EI 206.1 Grd 206.0 CO ¹ |
| 50F FH | (12E S ₀ off set line) | | 4.4 | 207.2 | 206.0 | C. 1.2 | |
| 5+50 | | | 7.1 | 204.5 | 205.0 | 3.7 | |
| 6+00 | | | 9.3 | 202.3 | 202.9 | 3.6 | |
| 6+50 | | | 11.5 | 200.1 | 200.7 | 3.6 | |
| 7+00 | | | 12.8 | 198.8 | 198.3 | 3.7 | |
| T.P. | 1.51 | 200.31 | 12.75 | 198.80 | | | |
| 7+50 | | | 3.9 | 196.4 | 196.3 | 4.1 | |
| 8+00 | | | 6.9 | 193.4 | 194.2 | 3.4 | |
| 8+50 | | | 10.0 | 190.3 | 191.8 | 3.4 | |
| 9+00 | | | 12.7 | 187.6 | 188.6 | 3.4 | |
| T.P. | 1.24 | 188.81 | 12.75 | 187.56 | | | |
| 9+50 | | | 5.0 | 183.8 | | 3.5 | |
| 10+00 | | | 9.4 | 179.4 | | 3.5 | |
| 10+50 | | | 12.7 | 176.1 | | 3.5 | |
| T.P. | 1.55 | 177.69 | 12.67 | 176.14 | | | |
| 10+00 | | | 5.0 | 172.7 | | 3.5 | |
| T.P. | 11.94 | 189.01 | 0.62 | 177.07 | | | |
| | | | 1.42 | 182.59 | 187.59 | | |

12" Main
Gst. 25-26

7783 L.
Sheet

King
Shipman
West

6-21-50

44

| | | | | | | |
|------|-------|--------|-------|--------|--------|-------------------------|
| B.M. | 2.31 | 174.30 | | 171.99 | | S.W. Cor. B.P. 26th-G. |
| 0+00 | | | 2.2 | 172.1 | 171.9 | 4.4 Prop. line 26th st. |
| 0+50 | | | 11.9 | 162.4 | 162.5 | 4.1 |
| T.P. | 0.72 | 162.04 | 12.98 | 161.32 | | |
| 1+00 | | | 10.9 | 151.1 | 152.0 | 3.3 |
| T.P. | 0.29 | 149.29 | 13.04 | 149.00 | 14 | |
| 1+50 | | | 10.0 | 139.3 | 145.6 | 2.0 |
| T.P. | 2.38 | 139.57 | 13.10 | 136.19 | | |
| 2+00 | | | 7.9 | 130.7 | 132.0 | 8.7 128.0 4.7 |
| 2+50 | | | 7.4 | 131.0 | 130.8 | 3.0 128.0 4.0 |
| 3+00 | | | 1.3 | 137.3 | 134.4 | 5.1 |
| T.P. | 11.98 | 150.53 | 0.02 | 138.55 | | |
| 3+50 | | | 3.9 | 146.6 | 145.0 | 5.8 |
| T.P. | 12.12 | 162.64 | 0.01 | 150.52 | | |
| 4+00 | | | 9.1 | 153.5 | 153.4 | 4.3 |
| 4+50 | | | 2.4 | 160.2 | 161.0 | 3.4 |
| T.P. | 12.16 | 174.35 | 0.45 | 162.19 | | |
| 5+00 | | | 7.5 | 166.9 | 167.0 | 4.1 |
| 5+50 | | | 4.3 | 170.1 | 169.9 | 4.6 |
| B.M. | | | 2.18 | 172.17 | 172.18 | B.P. N.W. Cor. 25th-G. |

June 28 1950

Beatty
West
Stripman
Carver

45

6" MAIN - ORCHARD AVE

| | | | | | | | | | |
|-----------------------------|------|------------------------|--------------|----------------------|-------------------------------|------|--------|----------------|------|
| B.M. | 1.67 | 217.50 | 215.83 | 5+00 | 199.56 | 3.79 | 195.77 | 195.3 196.8 | C50 |
| | | Bottom of 6" near G.V. | 10.05 207.45 | 207.45 | +37 FH 21° E W & St | 3.43 | 196.13 | 196.50 | F037 |
| -1+00 | | | 7.55 209.95 | 205.40 C46 | +37 FH (5) | 4.30 | 195.26 | | |
| 0-50 | | | 9.62 207.88 | 203.40 C45 | | 3.11 | 196.45 | 196.50 | F005 |
| 0+00 (BC) NW Cor Orchard | | | 12.05 205.45 | 205.90 201.20 C45 | 5+50 | 3.05 | 196.51 | | |
| 0+00 FH (21° E W & St.) | | | 12.05 205.45 | 205.92 F047 | CK B.P. B.M. SW Cor Catalina. | 3.90 | 195.66 | 195.3 196.8 | C47 |
| 0+00 FH (5) (26° E W & St.) | | | 11.80 205.70 | 205.92 F022 | | 3.01 | 196.55 | = 196.50 | |
| TP | 1.68 | 206.36 | 12.82 204.68 | | | | | | |
| +50 | | | 3.76 202.60 | 203.2 198.7 C39 | | | | | |
| 1+00 | | | 6.06 200.30 | 200.5 196.0 C43 | | | | | |
| +50 | | | 7.82 198.54 | 198.4 193.9 C46 | | | | | |
| 2+00 | | | 10.95 195.41 | 196.9 192.6 C38 | | | | | |
| CK B.M. Nail in pole | | | 5.64 200.72 | 200.70 | | | | | |
| +50 | | | 10.76 195.60 | 195.4 190.9 C42 | | | | | |
| 3+00 | | | 10.56 195.80 | 195.4 190.9 C49 | | | | | |
| | | Nor Curb | 10.92 195.44 | | | | | | |
| TP | 3.94 | 199.56 | 10.74 195.62 | | | | | | |
| +50 | | | 3.94 195.62 | 195.4 190.9 C47 | | | | | |
| | | Nor Curb | 4.14 195.42 | | | | | | |
| 4+00 | | | 4.10 195.46 | 195.4 190.9 C46 | | | | | |
| | | Nor Curb | 4.16 195.40 | | | | | | |
| +50 | | | 4.07 195.49 | 195.3 190.8 C42 | | | | | |
| | | Nor Curb | 4.27 195.29 | | | | | | |

July 3, 1950
Beatty
Shipman

42

GRADES SET FOR METERS - West Side Coronado

| | | | | | | |
|-------------------|---|--------|-------|--------|-------|-----|
| BM. | 7.20 | 223.03 | | 215.83 | | |
| 0+00 | - 215 WEST at BC Coronado & Gletsworth | | | 214.74 | | |
| 0+85 ⁸ | (Southerly Stake marked) | 6.95 | 216.1 | 216.3 | F02 | |
| 1+50 ⁸ | | 7.05 | 216.0 | 216.7 | F02 | |
| 2+21 | | | | | | |
| 2+00 ⁸ | | 7.80 | 215.2 | 216.4 | F12 | |
| 2+50 ⁸ | | 8.2 | 214.8 | 216.0 | F13 | |
| 3+00 ⁸ | | 9.0 | 214.0 | 214.9 | F09 | |
| 3+50 ⁸ | | 10.13 | 212.9 | 213.5 | F06 | |
| 4+00 ⁸ | | | | | | |
| 4P | 0.94 | 211.35 | 11.63 | 211.4 | 211.2 | F02 |
| 4+50 ⁸ | | | 12.62 | 210.41 | | |
| | | | 1.56 | 209.8 | 209.5 | C03 |
| 5+00 ⁸ | | | 3.56 | 207.8 | 207.3 | C05 |
| 5+50 ⁸ | | | 6.45 | 204.9 | 205.1 | F02 |
| 6+00 ⁸ | | | 8.04 | 203.3 | 202.9 | C04 |
| 6+50 ⁸ | | | 10.65 | 200.7 | 200.7 | C02 |
| 7+00 ⁸ | | | 12.23 | 199.1 | 198.5 | C06 |
| 7P | 0.96 | 200.02 | 12.29 | 199.06 | | |
| +50 ⁸ | | | 3.30 | 196.7 | 196.3 | C04 |
| 8+00 ⁸ | | | 6.79 | 193.23 | 194.2 | F02 |
| | | | 6.57 | 193.45 | | |

July 5, 1950
Beatty
West
Shipman

GRADES FOR 12" MAIN - KM #2 to Morena

| | | | | |
|-----------|------|---------------------------|---------------------------|-------------------------------------|
| Top. Rail | 1.13 | 68.31 66.30 | 67.18 65.17 | 34 795 32 17 79.30 |
| 0+2881 | PT | (10) offset (14) | 2.4 | 65.9 62.90 55.8 610 |
| +50 | | | 2.5 | 65.8 62.80 55.5 610 |
| 1+00 | | | 3.7 | 64.6 62.60 54.0 610 |
| +50 | | | 5.95 | 62.3 60.35 52.4 699 |
| 2+00 | | | 12.35 | 55.90 53.95 49.9 660 |
| P | 2.08 | 58.04 56.03 | 12.35 | 55.96 53.95 |
| +50 | | | 4.4 | 53.6 51.6 47.4 66 |
| 3+00 | | | 10.1 | 47.9 45.9 45.0 679 |
| +50 | | | 8.8 | 49.2 45.0 64 |
| +50 | | | 9.3 | 48.7 45.0 |

July 5 1950

Beatty
West
Shipman

48

Profile 3306

GRADES FOR 6" MAIN - DUPONT, Silvergate to Bow

| | | | | | |
|------------------------------|----------|--------|-------|--------|------------------------|
| BM | 12.03 | 283.47 | | 271.44 | Painted ON F.H. |
| 0+00 (W.P.L. to So. Bow St.) | | | 14.4 | 269.11 | 266.80 C18 262.36 B |
| +50 | | | 11.8 | 271.7 | 267.50 C18 263.08 B |
| 1+00 | | | 11.0 | 272.5 | 268.90 C18 264.48 B |
| +50 | | | 10.2 | 273.3 | 270.30 C18 265.88 B |
| 2+00 | | | 10.6 | 272.9 | 271.60 C18 267.18 B |
| +50 | | | 9.3 | 274.2 | 273.10 C18 267.68 B |
| 3+00 | | | 7.5 | 276.0 | 274.50 C18 270.08 B |
| 11) +50 | 10.27 | 292.17 | 11.57 | 281.90 | 275.80 C18 271.38 B |
| | | | 12.2 | 280.0 | 275.80 C18 271.38 B |
| 4+00 | | | 10.7 | 281.5 | 277.60 C18 273.18 B |
| +50 | | | 9.0 | 283.2 | 280.00 C18 275.58 B |
| 5+00 | | | 7.0 | 285.2 | 282.40 C18 277.98 B |
| +50 | | | 4.5 | 287.7 | 284.90 C18 280.48 B |
| 6+00 | | | 2.4 | 289.8 | 287.10 C18 283.68 B |
| +19.59 (E.P.L. Silvergate) | | | 1.5 | 290.7 | 287.50 C18 283.08 B |
| P | 3.10 | 283.05 | 12.22 | 279.95 | |
| | 00. M.H. | | 6.06 | 276.99 | |
| | | | 6.14 | 276.91 | = 276.90 |
| BM | 4.04 | 297.64 | | 293.60 | BP 85' So. Dudley |
| | | | 6.89 | 290.75 | = 290.70 |

JULY 7 1950

BEATTY
WEST
SHIPMAN

49

GRADES FOR METERS - G St 25th to 26th

| | | | | | | |
|----------|-------|--------|-------|-----------------|--------------------------------|----------------------|
| B BM | 5.77 | 177.76 | | 171.99 | | ORANGE PENCIL GRD |
| 0+12 So | 29.50 | E St | 6.4 | 171.8 | 169.6 ^{C2} | 172.6 ^{C12} |
| TD Rock | 1.29 | 166.50 | 12.75 | 165.01 | | |
| 0+84 NOR | 29.50 | E St | 10.4 | 156.1 | 156.4 ^{C2} | 156.6 F05 |
| TD Rock | 0.81 | 154.80 | 12.51 | 153.99 | | |
| 1+10 NOR | | | 4.3 | 150.5 | 151.0 ^{C2} | 151.3 F08 |
| TD Rock | 1.82 | 144.06 | 12.56 | 142.24 | | |
| 1+69 NOR | | | 7.3 | 136.8 | 141.8 ^{F2} | 138.5 F17 |
| 2+70 So | | | 8.3 | 135.8 | 140.2 ^{F2} | 137.5 F17 |
| 1+72 So | | | 9.1 | 135.0 | 140.0 ^{F2} | 136.5 F15 |
| 3+76 So | | | 9.7 | 134.4 | 139.7 ^{F2} | 135.8 F14 |
| 2+04 So | | | 13.1 | 131.0 | 139.0 ^{F2} | 132.4 F14 |
| TD Rock | 8.53 | 139.49 | 13.10 | 130.96 | | |
| 4+41 NOR | | | 9.9 | 129.5 | 140.0 ^{F2} | 131.6 F21 |
| 2+50 NOR | | | 9.5 | 130.0 | 140.0 ^{F2} | 131.8 F18 |
| 3+03 NOR | | | 0.0 | 139.5 | 141.7 ^{F2} | 138.2 ^{C12} |
| TD Rock | 11.66 | 151.15 | 0.00 | 139.69 | | |
| 3+54 NOR | | | 3.7 | 147.5 | 146.6 ^{C2} | 146.5 C10 |
| TD | 10.57 | 160.87 | 0.85 | 150.30 | | |
| 3+96 NOR | | | 7.7 | 153.2 | 151.4 ^{C2} | 153.4 F02 |
| TD | 11.67 | 172.41 | 0.13 | 160.74 | | |
| 4+48 So | | | 11.9 | 160.5 | 156.8 ^{C2} | 160.8 F03 |
| TD BM | | | 0.29 | 172.12 = 172.17 | | |

JULY 10, 1950

DEATY
BAKER
WEST
SHIPMAN

GRADES FOR METERS - CORONADO - EAST SIDE

| | | | | |
|------|--|--------|--------|-----------|
| TP | | | 210.41 | |
| BM | 9.57 | 219.98 | 215.89 | |
| 0+00 | = 27.62 South B.C. Curb Line (30.83 E & Road) | 8.6 | 211.4 | 211.9 F05 |
| +50 | (= 21.5 E & Road) | 6.5 | 213.5 | 213.3 F03 |
| 1+00 | | 5.8 | 214.2 | 214.6 F02 |
| +50 | | 4.6 | 215.4 | 215.7 F03 |
| 2+00 | | 3.8 | 216.2 | 216.4 F02 |
| +50 | | 3.6 | 216.4 | 216.7 F03 |
| 3+00 | | 3.8 | 216.2 | 216.6 F04 |
| 4+00 | | 4.6 | 215.4 | 216.0 F05 |
| 4+00 | | 5.7 | 214.3 | 215.0 F07 |
| +50 | | 7.0 | 213.0 | 213.6 F06 |
| 5+00 | | 8.0 | 212.0 | 211.7 F02 |
| +50 | | 10.2 | 209.8 | 209.5 F03 |
| 6+00 | | 12.3 | 207.7 | 207.9 F04 |
| TP | 1.52 | 208.80 | 12.70 | 207.28 |
| +50 | | | 3.2 | 205.6 |
| 7+00 | | | 5.9 | 202.9 |
| +50 | | | 8.6 | 200.2 |
| 8+00 | | | 10.3 | 198.5 |
| +50 | | | 12.2 | 196.6 |
| TP | 3.02 | 199.63 | 12.19 | 196.61 |
| 9+00 | | | 6.3 | 193.3 |

29.98
210.7
217.91

3x50

210.41
7.83
218.24 Ni

858
783
75

✓

July 11, 1950

Beatty
Baker
West
Shipman

GRADES FOR METERS - DEL MAR AVE - East Side

| | | | | |
|---------|---|--------|---------|-----------|
| BVI | 2.17 | 223.00 | 215.83 | |
| 0+00 | = 17.52 South P.C. Corblime = 29.65 East of Road | 8.1 | 214.9 | 215.4 F05 |
| +50 | = 23' East of Road | 8.1 | 214.9 | 215.2 F03 |
| 1+00 | | 8.6 | 214.4 | 214.8 F04 |
| +50 | | 9.0 | 214.0 | 214.3 F03 |
| +90 | | 10.2 | 212.8 | 213.4 F06 |
| 2+50 | | 12.1 | 210.9 | 211.2 F03 |
| TP Rock | 0.40 | 210.39 | 13.01 | 209.99 |
| 3+00 | | 2.0 | 208.4 | 208.8 F04 |
| +50 | | 4.5 | 205.9 | 205.3 F06 |
| 4+00 | | 7.8 | 202.6 | 201.8 F08 |
| +50 | | 12.0 | 198.4 | 199.4 F10 |
| TP Rock | 0.43 | 198.20 | 12.62 | 197.77 |
| 5+00 | | 3.8 | 194.4 | 195.3 F09 |
| +50 | | 7.1 | 191.1 | 191.3 F03 |
| 6+00 | | 9.8 | 188.4 | 188.6 F02 |
| CK | | 12.20 | 186.0 = | 185.94 |

57

GRADES FOR METERS - West Side DEL MAR

| | | | | |
|-------|--|----------------------|------------|-----------|
| | | | 223.00 | |
| 0+00 | = 80° W of PL BC | 9.4 | 213.6 | 214.4 F08 |
| +70 | | 11.4 | 211.6 | 212.3 F07 |
| | | | 210.39 | |
| 1+20 | | 0.8 | 209.6 | 209.6 C00 |
| +80 | | 4.6 | 205.8 | 205.7 C01 |
| 2+30 | | 7.4 | 203.0 | 202.3 C07 |
| +80 | | 11.6 | 198.8 | 198.7 C01 |
| | | | 198.20 | |
| 3+30 | | 3.1 | 195.1 | 195.1 C00 |
| +80 | | 6.9 | 191.3 | 191.8 F0E |
| 4+30 | | 9.2 | 189.0 | 189.0 C00 |
| | | | H.I 223.00 | |
| 85' E | EC Prop Line NE Cor Orchard & Chatsworth | 7.9 | 215.1 | 215.3 F02 |
| 75' W | EC Prop Line NW Cor Del Mar & Chatsworth | 6.6 | 216.4 | 216.4 C0E |
| 74' E | EC Prop Line NE Cor Del Mar & Chatsworth | 8.2 | 212.8 | 213.8 F10 |
| 70' E | EC Prop Line NE Cor Coronado & Chatsworth | $\frac{211.4}{-5.0}$ | 206.4 | 206.6 F02 |
| 85' W | EC Prop Line NW Cor Coronado & Chats | | 213.7 | 214.2 F05 |

JULY 12, 1950

Beatty
Baker
West
Shipman

52

GRADES FOR 8" MAIN - DENBY to 43rd ON HILLTOP

| TRM | 1.36 | 159.26 | 157.90 | NAIL IN PILE |
|--------|------|--------|--------|---------------------------------------|
| 11 | 9.34 | 166.73 | 157.39 | PK 724-23 |
| 0+00 | | | 161.2 | CG 1 |
| 0+13 | | | 157.2 | CG 2 |
| | | | | El. top pipe 158.00 Bot " 158.2 ok |
| | | | | 8.75 |
| 0+50 | | 4.6 | 162.1 | 162.5 CG 158.5 3 |
| 0+92.3 | | 4.0 | 162.7 | 162.8 CG 158.8 2 |
| | | 3.8 | 162.9 | CG 1 |
| 1+123 | | 1.9 | 164.8 | 163.5 CG 159.5 2 |

= 8" BELL End of pipe. 56
E. Prop. Line Denby St.
⑤ = 10' Nor & of Hilltop.

⑤ South
⑤ East

= Nor Line Hilltop.

July 12 1950

Beatty
Baker
West
Shipman

53

GRADES FOR METERS - HORN BLEND ST CASS - EVERTS

| | | | | | | | | 31.36 | Elev | Grade | | |
|----------------------------|------|-------|------|-------|-------------|----------------|----------|-------|-------|-------|------|----------------|
| BN | 1.53 | 29.42 | | 27.85 | GARNET CASS | 6+10 So | | 5.1 | 26.3 | 26.2 | | 0 ¹ |
| 11 | 5.01 | 28.06 | 6.37 | 23.05 | | | | | | | | |
| | | | | Elev | GRD | CUT | | | | | | |
| CHCO - East Prop Line Cass | | | | 22.4 | | 6+38 So | | 4.6 | 26.8 | 26.5 | | 0 ³ |
| CH80 So | | | 5.8 | 22.3 | FOL | 7+00 So | | 3.7 | 27.7 | 27.3 | | 0 ⁴ |
| 1+26 Nor | | | 4.6 | 23.5 | 23.5 | 0 ² | 7+44 So | 3.1 | 28.3 | 27.9 | | 0 ⁴ |
| 1+30 So | | | 5.3 | 22.8 | 22.7 | 0 ¹ | | | | | | |
| 1+61 Nor | | | 4.3 | 23.8 | 23.7 | 0 ¹ | 7+86 So | 2.5 | 28.9 | 28.4 | | 0 ⁵ |
| 1+75 So | | | 5.0 | 23.1 | 23.0 | 0 ¹ | 8+10 Nor | 1.2 | 30.2 | 29.6 | | 0 ⁶ |
| 1+87 Nor | | | 4.1 | 24.0 | 23.8 | 0 ² | 8+36 So | 1.9 | 29.5 | 29.1 | | 0 ⁴ |
| 2+09 Nor | | | 3.7 | 24.4 | 23.9 | 0 ⁵ | 8+60 Nor | 0.6 | 30.8 | 30.2 | | 0 ⁶ |
| 2+36 So | | | 4.8 | 23.3 | 23.4 | FOL | 8+83 So | | | 29.7 | | 0 ⁵ |
| 2+74 So | | | 4.4 | 23.7 | 23.6 | 0 ¹ | 11 | 6.18 | 36.36 | 1.7 | 30.2 | 30.18 |
| 2+95 Nor | | | 3.6 | 24.5 | 24.3 | 0 ² | 9+10 Nor | 5.0 | 31.4 | 31.0 | | 0 ⁴ |
| 3+30 Nor | | | 3.8 | 24.3 | 24.5 | FOL | 9+60 Nor | 4.1 | 32.3 | 31.6 | | 0 ⁷ |
| 3+30 So | | | 4.4 | 23.7 | 23.9 | FOL | 9+73 So | 4.7 | 31.7 | 30.9 | | 0 ⁸ |
| 3+78 Nor | | | 3.4 | 24.7 | 24.9 | 0 ² | 9+84 Nor | 4.4 | 32.0 | 31.9 | | 0 ¹ |
| 3+80 So | | | 4.2 | 23.9 | 24.1 | FOL | 9+95 So | 4.7 | 31.7 | 31.1 | | 0 ⁶ |
| 4+23 Nor | | | 2.8 | 25.3 | 24.9 | 0 ³ | 10+44 So | 4.4 | 32.0 | 31.8 | | 0 ² |
| 4+30 So | | | 3.6 | 24.5 | 24.4 | 0 ¹ | CK curb | 7.09 | 29.27 | = | 29.2 | |
| 11 | 6.12 | 31.36 | | 2.81 | 25.25 | | | | | | | |
| 4+86 Nor | | | 5.5 | 25.9 | 25.2 | 0 ⁷ | | | | | | |
| 4+97 So | | | 6.1 | 25.3 | 24.9 | 0 ⁴ | | | | | | |

July 18, 1950
BEATTY
KING
LEONARD

55

GRADES FOR METERS - Hornblend - Everts - Haines

| | | | | | | | | | | | |
|----------------------------|------|-------|-------|-------|-----------|-------|----------------------------|-------|-------|------|-------|
| 11+60 = E Prop line Everts | 8.42 | 38.60 | 30.18 | | 21+350 So | 48.55 | 4.05 | 44.50 | 43.6 | C09 | |
| 12+08 So. - 23' from E St | | | 2.9 | 35.7 | 34.8 | C09 | 21+875 So | 2.95 | 45.60 | 44.8 | C08 |
| 13+06 So | | | 1.6 | 37.0 | 35.8 | C12 | 23+23' So (West Hill) | 0.15 | 48.40 | 47.6 | C08 |
| 13+66 So | | | 0.60 | 38.0 | 37.0 | C10 | 23+205 Nor | 8.30 | 56.70 | 0.15 | 48.40 |
| 14+03 So | 7.77 | 45.77 | 7.15 | 38.6 | 37.7 | C09 | 23+915 So | 7.7 | 49.0 | 48.1 | C09 |
| 14+08 Nor | | | 7.1 | 38.7 | 38.5 | C02 | 23+985 Nor | 6.8 | 49.9 | 49.1 | C08 |
| 15+44.5 Nor | | | 4.7 | 41.1 | 40.2 | C09 | 24+44 So | 6.55 | 50.2 | 49.7 | C05 |
| 15+77.0 Nor. | | | 4.5 | 41.3 | 40.4 | C09 | 24+44.5 Nor | 5.7 | 51.0 | 50.2 | C08 |
| 18+583 So | 5.43 | 48.55 | 2.65 | 43.12 | | | 24+89 So | 5.1 | 51.6 | 50.8 | C08 |
| 19+06.0 So | | | 6.05 | 42.50 | 41.8 | C07 | 24+95 Nor | 4.2 | 52.5 | 51.5 | C10 |
| 19+45 Nor | | | 6.15 | 42.40 | 42.1 | C03 | 24+95 Nor | 3.7 | 53.0 | 52.2 | C08 |
| 19+778 So | | | 5.25 | 43.30 | 43.2 | C01 | 25+355 So | 2.9 | 53.8 | 53.3 | C05 |
| 20+03 Nor | | | 5.80 | 43.8 | 42.5 | C03 | 25+465 Nor | 1.3 | 55.4 | 54.2 | C12 |
| 20+06 So | | | 5.05 | 43.5 | 43.6 | F01 | 25+95 Nor | 0.73 | 55.97 | | C17 |
| 20+47 Nor | | | 5.60 | 43.0 | 42.6 | C04 | 26+46 So | 8.0 | 58.00 | 56.3 | C17 |
| 20+823 So | | | 2.65 | 43.90 | 43.9 | C02 | 26+48 Nor | 6.9 | 59.1 | 57.9 | C12 |
| 21+305 Nor | | | 4.70 | 43.9 | 43.1 | C08 | 26+48 Nor | 5.4 | 60.6 | 58.4 | C02 |
| | | | 2.00 | 44.6 | 44.5 | C01 | 26+89 So | 5.15 | 60.8 | 59.6 | C12 |
| | | | | | | | 27+01 Nor | 3.65 | 62.3 | 60.7 | C16 |
| | | | | | | | 27+56.0 Nor | 2.36 | 63.6 | 61.9 | C12 |
| | | | | | | | 27+66.0 So | 2.44 | 63.5 | 61.5 | C20 |
| | | | | | | | TP CONC MON SW COR HAINES. | 3.07 | 62.89 | | |

July 20, 1950

BEATTY
KING
LEONARD
BAKER

58

GRADES FOR 6" MAIN Elizabeth ST - Ocean View to T. ST

| | | | | | |
|-----------|----------------------------|-------------|-------|-------|--|
| BM | 0.81 | 86.25 | | 85.44 | 6 & T. 45 th & Woodman Ocean View |
| TP (Reck) | 4.15 | 77.50 | 12.90 | 73.35 | |
| | OK & Ocean View | & Elizabeth | 7.23 | 70.27 | = 70.22 |
| 0+00 | = So. Prop Line Ocean View | | | | 69.6 |
| | 14' E & ST. | | | | |
| +50 | | | 7.0 | 70.5 | 70.4 64 ⁶ |
| 1+00 | | | 6.8 | 70.7 | 70.7 64 ⁵ |
| +50 | | | 6.6 | 70.9 | 71.0 64 ⁴ |
| 2+00 | | | 6.0 | 71.5 | 71.4 64 ⁶ |
| +50 | | | 5.6 | 71.9 | 71.6 64 ⁸ |
| 3+00 | | | 5.2 | 72.3 | 71.9 65 ⁰ |
| +50 | | | 4.9 | 72.6 | 72.2 64 ⁹ |
| TP | 11.94 | 84.56 | 4.88 | 72.62 | |
| 4+00 | | | 11.46 | 72.1 | 72.5 65 ¹ |
| +50 | | | 10.96 | 73.6 | 73.0 65 ¹ |
| 5+00 | | | 9.75 | 76.8 | 74.2 65 ¹ |
| +50 | | | 8.52 | 76.0 | 76.2 64 ³ |
| +95 | ⑤ FIRE HYD. = | | 5.23 | 79.3 | 77.8 61 ⁵ |
| | 28' E & ST | | | | |
| 6+05 | = Nor. Prop Line T. ST | | 5.56 | 79.0 | 78.2 65 ³ |
| | | | 6.35 | 78.21 | = 78.2 |

July 24 1950
Beatty
Leonard
Baker

Kearny Mesa No 2

E Profile & Profile of Ditch 344+56 - 346+70

| Station | Profile 1 | Profile 2 | Profile 3 | Profile 4 |
|----------------------|-----------|-----------|-----------|-----------|
| 344+47.5 | 4.35 | 19.35 | 15.0 | 344+100 |
| +56 | 4.6 | 14.8 | | |
| 345+00 | 4.4 | 15.0 | | |
| +21 E. Edge oil Walk | 4.3 | 15.1 | | |
| +28 | 4.2 | 15.2 | | |
| +50 | 4.19 | 15.2 | | (5) 44 |
| 346+00 | 4.8 | 14.6 | | |
| +50 | 4.3 | 15.1 | | |
| +70 | 4.0 | 15.4 | | |
| | 4.3 | 15.1 | | |
| | 4.2 | 15.2 | | |

| | |
|--------|--|
| 13.8 | |
| 5.6 | |
| 22 | |
| 14.0 | |
| 5.4 | |
| 9 | |
| 15.2 | |
| 4.2 | |
| 8E | |
| Header | |
| 15.2 | |
| 4.2 | |
| 7.5 | |
| 15.1 | |
| 4.3 | |
| 9.0 | |
| 14.9 | |
| 4.5 | |
| 9.0 | |
| 14.2 | |
| 5.2 | |
| 9.0 | |
| 12.3 | |
| 5.1 | |
| 9 | |
| 12.5 | |
| 4.9 | |
| 10 | |
| 14.5 | |
| 2.9 | |
| 10.5 | |
| 14.6 | |
| 4.8 | |
| 10 | |

Meter Boxes
Hornblend from Haines
to Ingraham

July 31, 1950

58

Cainey
King
Leonard
Baker

B.M. cor. road S.W. Cor. Haines + Hornblend 62.89

4.08 66.97

| | | | | |
|--------|-----|------|------|------|
| N side | | | | |
| 0401 | 3.1 | 63.9 | 62.3 | 1.6 |
| 0483 | 4.3 | 62.7 | 62.0 | 0.7 |
| 1433 | 4.9 | 62.1 | 61.8 | 0.3 |
| 1484 | 5.3 | 61.7 | 61.7 | 0.0 |
| 2434 | 5.3 | 61.7 | 61.5 | 0.2 |
| 2480 | 5.5 | 61.5 | 61.3 | 0.2 |
| 4428 | 5.3 | 61.7 | 60.8 | 0.9 |
| S side | | | | |
| 4400 | 4.7 | 62.3 | 60.4 | 1.9 |
| 2473 | 5.8 | 61.2 | 60.8 | 0.4 |
| 1479 | 6.1 | 60.9 | 61.2 | F0.3 |
| 0465 | 4.8 | 62.2 | 61.6 | 0.6 |
| 0430 | 4.2 | 62.8 | 61.7 | 1.1 |

Hornblend
Ingraham-Jewell
Meter Boxes

8-2-50 Hot
King-Notes
Leonard
Baker

59

B.m.

8.97

6932

60.35

L & T. S. W. 7' offset - Jewell & Hornblend

0+2 N

6.9

62.4 - 61.1

C 1.3

2+13-S

6.2

63.1 - 62.6

C 0.5

2+99-S

4.8

64.5 - 63.8

C 0.7

3+32-S

5.1

64.2 - 64.0

C 0.2

3+89-S

6.1

63.2 - 63.2

F. 0.1

4+42

7.2

62.1 - 61.9

C 0.2

Hornblend St.
Jewell-Kendall

8-4-50
King
Leonard
Baker

60

| B.M. | 1.83 | \uparrow 62.18 | | 60.35 | | |
|------------------------------------|------|---------------------|------|-------|------|------------------|
| Curb Return of Prop. 1/4 0+00 N | | | 0.2 | 62.0 | 60.9 | c 1 ¹ |
| S | | | 2.1 | 60.1 | 60.0 | c 0 ¹ |
| 0+40 N | | | 1.2 | 61.0 | 59.9 | c 1 ¹ |
| S | | | 3.0 | 59.2 | 59.0 | c 0 ² |
| 0+80 N | | | 2.2 | 60.0 | 58.9 | c 1 ¹ |
| S | | | 4.0 | 58.2 | 58.0 | c 0 ² |
| 1+20 N | | | 3.2 | 59.0 | 57.9 | c 1 ¹ |
| S | | | 5.0 | 57.2 | 57.0 | c 0 ² |
| 1+60 N | | | 4.2 | 58.0 | 56.9 | c 1 ¹ |
| S | | | 6.1 | 56.1 | 56.0 | c 0 ¹ |
| 2+00 N | | | 5.1 | 57.1 | 55.8 | c 1 ³ |
| S | | | 6.9 | 55.3 | 55.0 | c 0 ³ |
| 2+40 N | | | 6.1 | 56.1 | 55.0 | c 1 ¹ |
| S | | | 8.0 | 54.2 | 54.0 | c 0 ² |
| T.P. | 4.55 | \uparrow 58.73 | 8.00 | 54.18 | | |
| 2+80 N | | | 2.9 | 55.8 | 54.7 | c 1 ¹ |
| S | | | 4.8 | 53.9 | 53.8 | c 0 ¹ |

58.73

| | | | | | |
|--------|--|-----|------|------|-------------------|
| 3420 N | | 3.0 | 55.7 | 54.4 | e / 3 |
| S | | 5.0 | 53.7 | 53.7 | 0° |
| 3460 N | | 3.1 | 55.6 | 54.3 | e / 3 |
| S | | 5.1 | 53.6 | 53.6 | 0° |
| 4+00 N | | 3.3 | 53.4 | 54.2 | e / 3 |
| S | | 5.2 | 53.5 | 53.3 | 0° |
| 4+40 N | | 3.5 | 55.2 | 54.0 | e / 3 |
| S | | 5.3 | 53.4 | 53.4 | 0° |
| 4+80 N | | 3.7 | 55.0 | 53.9 | e / 1 |
| S | | 5.6 | 53.1 | 53.1 | 0° |
| 5400 N | | 3.7 | 55.0 | 53.9 | e / 1 carb return |
| S | | 5.7 | 53.0 | 53.0 | 0° " " |

TB.M 3.54 55.19 N.W. lot

Levels Top 4" P.L.
Jewell to LAMONT St

KING
Leonard
Baker

8-4-50

63

| | | | |
|--------|-----------|-------|-------|
| B.M. | 2.01 | 67.36 | 60.35 |
| 0+16 | | 4.0 | |
| 0+66 | | 4.6 | |
| 1+38 | | 6.5 | |
| 1+97 | | 8.0 | |
| 2+43 | | 8.9 | |
| 2+94 | | 9.5 | |
| 3+23 | | 9.8 | |
| 3+87 | | 8.1 | |
| 4+58 | | 8.9 | |
| 4+58 | J.P. 6.59 | 8.65 | 53.68 |
| 6+15 | | 8.17 | |
| 7+19 | | 7.5 | 7.1 |
| 8+21 | | 7.1 | 6.4 |
| 9+22 | | 6.4 | 5.3 |
| 10+04 | | 5.3 | 3.5 |
| 10+481 | | 3.5 | 1.7 |

0.26

S.W. cor Jewell & Hornblend L&T

5+00 9.1
5+80 8.1

Levels Top 4" P.L.
Hornblend St.
Jewell - Lamont St.

0+00 = East Prop Line Jewell St.

| B.M. | 2.01 | 62.36 | | 60.35 |
|-------|------|-------|------|-------|
| 0+16 | | | 4.0 | 58.4 |
| 0+66 | | | 4.6 | 57.8 |
| 1+38 | | | 6.5 | 55.9 |
| 1+97 | | | 8.0 | 54.4 |
| 2+43 | | | 8.9 | 53.5 |
| 2+94 | | | 9.5 | 52.9 |
| 3+23 | | | 9.8 | 52.6 |
| 3+87 | | | 9.9 | 52.5 |
| F.P. | 6.59 | 60.27 | 8.68 | 53.68 |
| 4+56 | | | 8.1 | 52.2 |
| 5+00 | | | 9.1 | 51.2 |
| 5+80 | | | 8.1 | 52.2 |
| 6+15 | | | 7.5 | 52.8 |
| 7+19 | | | 7.1 | 53.2 |
| 8+21 | | | 6.4 | 53.9 |
| 9+22 | | | 5.3 | 55.0 |
| 10+00 | | | 3.5 | 56.8 |

Aug. 4, 1950

King
Leonard
Baker

64

Let S.W. Cor. Jewell & Hornblend St.

0+00 prop. line Jewell

Levels Top 4" P.L.
Horriblend St.
Jewell-Lamont

60.27

10+81

1.7

58.6

B.M.

0.26

60.01

60.03

B.P. S.W. cor. Lamont & Horriblend

8-4-02

25

MeTer Boxes
Haynes St
Reed to 99 r Net

8-21-50
KING
Leonard
West

65

| | | | | | | |
|-------|-------|-------|------|------|-------|-------|
| B.M. | 10.36 | 61.15 | | | 52.78 | |
| 0+49E | | | 10.4 | 50.7 | 48.7 | C 2.0 |
| 1+19N | | | 9.5 | 51.6 | 49.7 | C 1.9 |
| 1+53W | | | 8.6 | 52.5 | 50.3 | C 2.2 |
| 1+73W | | | 8.2 | 52.9 | 50.6 | C 2.3 |

| | | | | | | |
|-------|--|--|-----|------|------|-------|
| 0+86E | | | 3.3 | 57.8 | 53.9 | C 4.0 |
| 1+15W | | | 4.4 | 56.7 | 53.2 | C 3.5 |

| | | | | | | |
|-------|--|--|-----|------|------|-------|
| 0+42E | | | 0.3 | 60.8 | 59.5 | C 1.3 |
|-------|--|--|-----|------|------|-------|

| | | | | | | |
|------|-------|-------|-----|-------|--|--|
| T.P. | 10.63 | 71.03 | 7.5 | 60.40 | | |
|------|-------|-------|-----|-------|--|--|

| | | | | | | |
|-------|--|--|-----|------|------|-------|
| 0+85W | | | 9.5 | 61.5 | 59.6 | C 1.9 |
|-------|--|--|-----|------|------|-------|

| | | | | | | |
|-------|--|--|-----|------|------|-------|
| 0+33W | | | 8.3 | 62.7 | 61.2 | C 1.5 |
|-------|--|--|-----|------|------|-------|

8.00

CONC M20W

66.4

| | | | | | | |
|--------------|--|--|------|-------|------|-----|
| 22 No. 11-46 | | | 3.65 | 67.38 | 66.2 | 1.2 |
|--------------|--|--|------|-------|------|-----|

Alley -
UNI - North 117
44th - Highland

KINY 8-21-58
Leonard
West

W.D. C 389

67

| B.M. | 2.91 | 362.65 | | 359.74 | |
|------|------|--------|-----|--------|-------|
| 6+00 | 4.05 | 360.19 | 65' | 356.14 | |
| 450 | | | 4.5 | 355.7 | 354.0 |
| 1+00 | | | 5.9 | 354.3 | 353.2 |
| 1+20 | | | 6.3 | 353.9 | 352.8 |
| | | | | | 35 |

UNI - FAIRMONT - N. W. B. P.

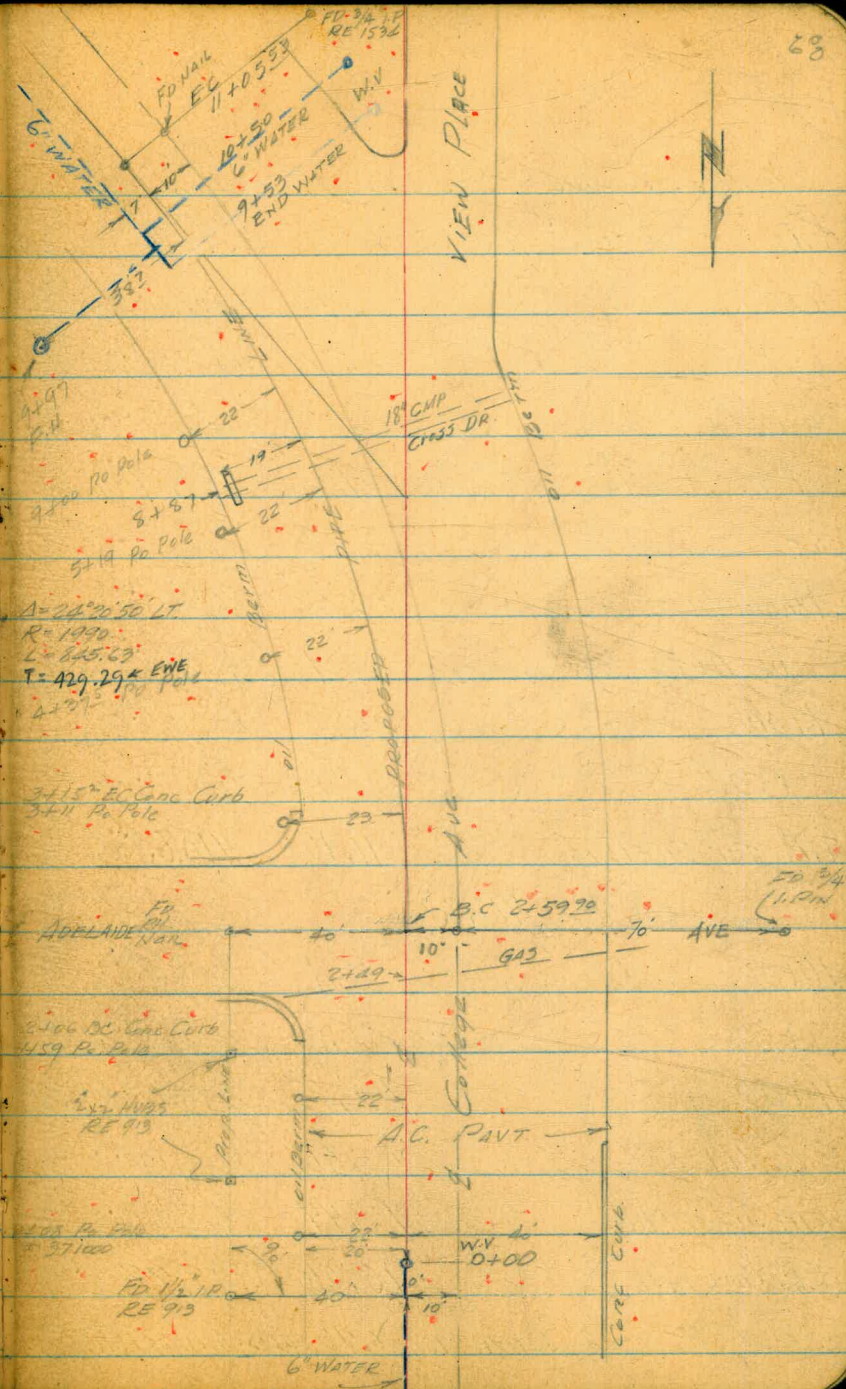
August 23, 1950

DEATY
KING
LEONARD
WEST

COLLEGE AVE EXTENSION PIPELINE
BETWEEN ESTELLE ST & UNIVERSITY AVE

| | | | | |
|---------------|-------|----------|-------------------|-------------------------------------|
| BM | 12.09 | 452.61 ✓ | 442.52 ✓ | TOP OF SW CORNER CITY LOT 101 |
| 0+00 | 11.13 | 441.48 | TOP OF NUT 9.4 | |
| 0+00 | 8.54 | 444.07 | | |
| +50 | 6.0 | 446.6 | | |
| 1+00 | 3.2 | 449.4 | | |
| +50 | | 452.3 | | |
| TP (rock) | 7.47 | 459.52 ✓ | 0.50 | 452.05 ✓ |
| 2+00 | | 455.0 | | |
| +59.20 (B.C.) | | 457.3 | | |
| 3+00 | | 457.8 | | |
| +50 | | 457.4 | | |
| 4+00 | | 455.6 | | |
| +50 | | 452.5 | | |
| 5+00 | | 448.9 | | |
| TP | 0.35 | 447.18 ✓ | 12.69 | 446.83 ✓ |
| +50 | | 444.9 | | |
| 6+00 | | 440.8 | | |
| +50 | | 436.9 | | |
| TP | | | 12.60 | 434.58 ✓ |

Reductions checked by E.E. 10/18/50



Aug. 25 1950

69

College Ave Extension Pipeline

| | | | |
|---|-------|----------|---------------------------|
| T.P. | +0.73 | 434.91 ✓ | 434.59 ✓ |
| 7+00 | | -2.0 | 432.58 .. |
| +50 | | -6.0 | 428.8 .. |
| 8+00 | | -10.0 | 424.8 .. |
| T.P. | +0.45 | 422.73 ✓ | 422.29 ✓ <i>check</i> |
| 8+50 | | -1.9 | 420.8 .. |
| DRAIN INLET - W. SIDE | | -7.2 | 415.5 .. |
| " " OUTLET - E. SIDE | | -8.9 | 413.8 .. |
| 9+00 | | -6.0 | 416.7 .. |
| +50 | | -10.0 | 412.7 .. |
| T.P. TOP FIRE PLUG | | -11.90 | 410.83 ✓ |
| | +0.00 | 410.83 ✓ | |
| 10+00 | | -2.1 | 408.7 .. |
| +50 | | -6.2 | 404.6 .. |
| 11+00 | | -10.2 | 394.6 400.6 ^{EE} |
| E.C. 11+05 ⁵³ | | -10.66 | 400.17 .. |
| ^{HIGH SIDE.} RIM SEWER M.H. | | -12.44 | 398.39 .. |
| T.P. END OF WALK | | -13.06 | 397.77 ✓ |

NOTE: INVERT OF 6" SEWER IS 6.7' BELOW RIM OF M.H.

| | | | |
|------------------------------|-------|----------|-----------------------------|
| | +0.25 | 399.02 ✓ | 397.77 ✓ |
| 11+50 | | -1.4 | 396.6 .. |
| 12+00 | | -5.4 | 392.6 .. |
| 12+50 | | -9.4 | 388.6 .. |
| T.P. | +0.78 | 385.82 ✓ | 385.04 ✓ <i>Master Plan</i> |
| 13+00 | | -1.3 | 384.5 .. |
| +50 | | -5.3 | 380.5 .. |
| 14+00 | | -9.2 | 376.6 .. |
| +50 | | -13.3 | 372.5 .. |
| T.P. | +0.10 | 372.97 ✓ | 372.87 ✓ <i>check</i> |
| ¹⁴⁺⁷¹ RIM M.H. | | -2.71 | 370.26 .. |
| 15+00 | | -4.4 | 368.6 .. |
| 15+50 | | -8.3 | 364.7 .. |
| 16+00 | | -12.3 | 360.7 .. |
| T.P. | +0.51 | 361.07 ✓ | 360.56 ✓ <i>check</i> |
| 16+50 | | -4.4 | 356.7 .. |
| 17+00 | | -8.5 | 352.6 .. |
| 17+50 | | -12.4 | 348.7 .. |
| T.P. | | -13.06 | 348.01 <i>LINE DRIVE</i> |

8/25/50

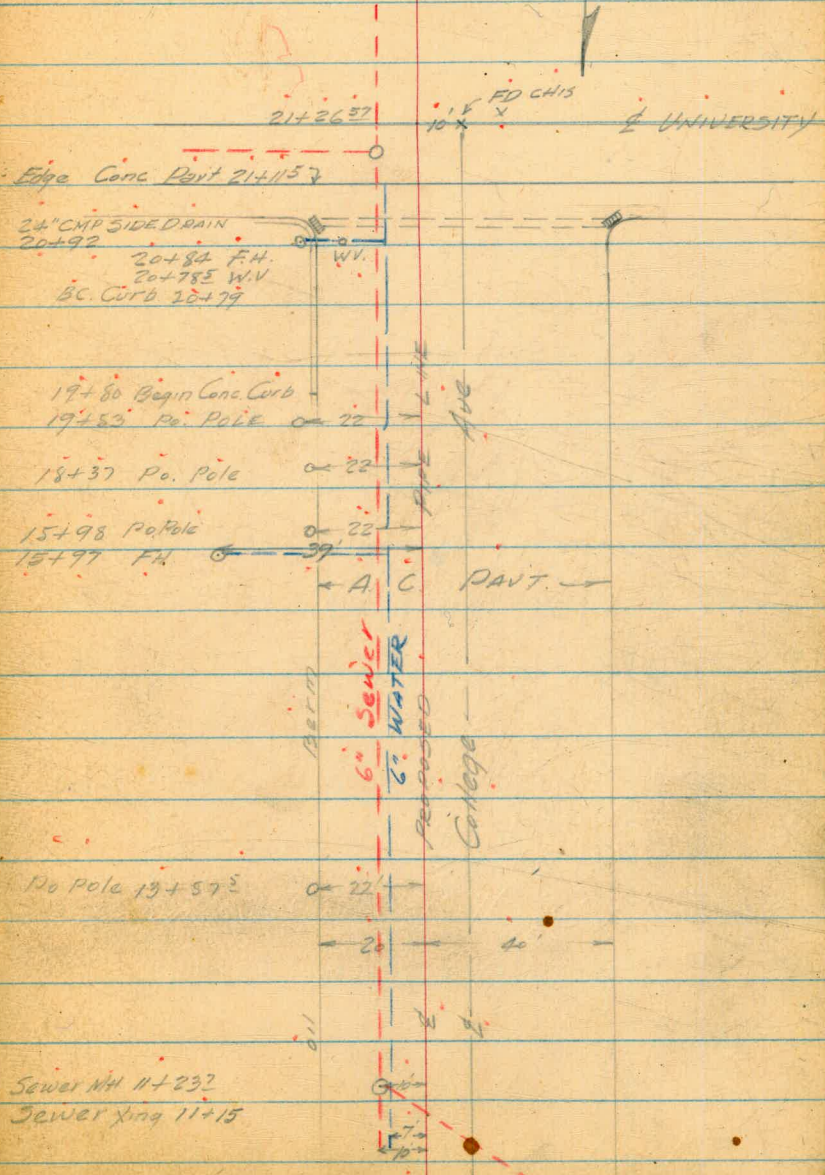
78

Collega Ave Extension Pipeline

+0.50 348.51 ✓ 348.01

checked by EE 10/18/50

| | | | | |
|----------|-----------------|----------|--------|------------------------|
| 18+00 | | 4.0 | 344.5 | |
| +50 | | 8.4 | 340.1 | |
| 19+00 | | 12.9 | 335.6 | |
| P | 1.28 | 336.74 ✓ | 13.05 | 335.46 ✓ |
| +50 | | 5.7 | 331.0 | |
| 20+00 | | 10.3 | 326.4 | |
| P | 4.15 | 328.14 ✓ | 12.75 | 323.99 ✓ |
| +50 | | 5.4 | 322.7 | |
| 21+00 | | 6.2 | 325.9 | 321.9 EE |
| | Rim Sew. M.H. | 5.95 | 322.19 | |
| | Inv. Sew. M.H. | 17.35 | 310.79 | |
| +115 | Edge Conc. Pav. | 6.11 | 322.03 | |
| 21+26.57 | & Univ. | 5.94 | 322.2 | Co. Datum 326.84 |
| OK BN | | 7.53 | 320.61 | 320.72 (City Datum) |



Sewer MH 11+232
Sewer xing 11+15

Nov. 6 1951

91

(55) OFFSET GRADES SET FOR
16" MAIN

College Ave - Estelle - University

| BM. | 11.33 | 451.85 | 440.52 | Top. FH Sw. Cor. Estelle & College Ave |
|-------------|-------|--------|--------------|--|
| 0+00 | | | 7.7 444.2 | 440.3 C39 |
| +06 | | | 7.4 444.5 | 440.6 C39 |
| +50 | | | 5.2 446.7 | 442.8 C39 |
| 1+00 | | | 23 449.6 | 445.4 C42 |
| TP | 10.32 | 461.56 | 0.6 451.24 | |
| +50 | | | 9.2 452.4 | 447.9 C45 |
| 2+00 | | | 6.4 455.2 | 450.5 C47 |
| +50 | | | 4.5 457.1 | 452.5 C46 |
| +59.20 B.C. | | | 4.2 457.4 | 452.7 C47 |
| 3+00 | | | 3.7 457.9 | 453.5 C44 |
| +50 | | | 4.1 457.5 | 453.0 C45 |
| 4+00 | | | 5.8 455.7 | 451.0 C47 |
| +50 | | | 8.8 452.8 | 448.0 C48 |
| 5+00 | | | 12.6 449.0 | 445.0 C49 |
| TP | 0.23 | 449.20 | 12.59 448.97 | |
| +50 | | | 4.3 444.9 | 440.8 C44 |
| 6+00 | | | 8.3 440.9 | 436.5 C44 |
| +50 | | | 12.3 436.9 | 432.4 C45 |

2.55

.051

.306

11-6-51

22

(55) OFFSET GRADES SET FOR
16" MAIN
COLLEGE AVE - ESTELLE to UNIVERSITY
449.20

| | | | | | |
|-------|------|--------|-------|--|--------------------------|
| HP | 0.10 | 436.00 | 13.30 | 435.90 | |
| 7+00 | | | 3.1 | 432.9 | 428.3 C46 |
| +50 | | | 7.1 | 428.9 | 424.2 C47 |
| 8+00 | | | 11.1 | 424.9 | 420.1 C48 |
| HP | 0.01 | 422.78 | 13.23 | 422.77 | |
| +50 | | | 1.9 | 420.9 | 416.0 C49 |
| 9+00 | | | 6.0 | 416.8 | 411.5 C53 |
| +50 | | | 9.9 | 412.9 | 408.5 C44 |
| HP | 0.01 | 409.63 | 13.16 | 409.62 | |
| 10+00 | | | 0.8 | 408.8 | 404.2 C46 |
| +25 | | | 2.8 | 406.8 ^v 408.8 | 402.0 C46 C48 |
| +50 | | | 4.9 | 404.7 | 399.0 C57 |
| +75 | | | 6.9 | 402.7 | 398.0 C47 |
| 11+00 | | | 8.9 | 400.7 | 396.0 C47 |
| HP | 0.66 | 397.32 | 12.97 | 396.66 | 392.0 C47 |
| +50 | | | 4.6 | 392.7 | 388.0 C47 |
| 12+00 | | | 8.6 | 388.7 | 384.0 C47 |

Check

11+23 SEW M.H.

11-6-51

73

(55) OFFSET GRADES SET FOR
16" MAIN

COLLEGE AVE - ESTELLE TO UNIVERSITY

TP 397.32
13+00 0.04 384.62 12.74 384.58 380.0 C46

+50 4.0 380.6 376.0 C46

14+00 7.9 376.7 372.0 C47 ✓

+50 12.0 372.6 368.0 C46

TP 0.01 371.37 13.26 371.36

15+00 2.7 368.7 364.0 C47 ✓

+50 6.7 364.7 360.0 C47

16+00 10.6 370.8 356.0 C48

TP 0.10 358.42 13.05 358.32

+50 1.7 356.7 352.0 C47

17+00 5.8 352.6 348.0 C46

+50 9.8 348.6 343.7 C49

TP 0.43 345.64 13.21 345.21

18+00 1.1 344.5 340.2 C52
339.3

+36 - 336.2 C51
+50 5.5 340.1 335.0 C39

19+00 9.9 335.7 331.2 C51
330.6 C45

TP 0.10 332.51 13.23 332.41

+50 1.4 331.1 326.3 C48

20+00 6.0 326.5 322.0 C45

344.50

3.35

347.85 347.85 NE

7.75 12.6

340.10 335.25

341.4 10.5

337.35

(M.R.C.D 1-8-52)

18+35.5
6" WAT 17+64.5 335.25

SEW 17+76.5 337.35

18+23.5

SEW - 335.25

WAT - 337.35

2.10

2/29/52

GRADE CHANGE TO
GO OVER 6" WATER

C43

Elev. GRADE
3411.4 337.65 C375

C39

C45

11-6-51

74

(55) OFFSET GRADES FOR 16" MAIN
COLLEGE AVE

ESTELLE TO UNIVERSITY

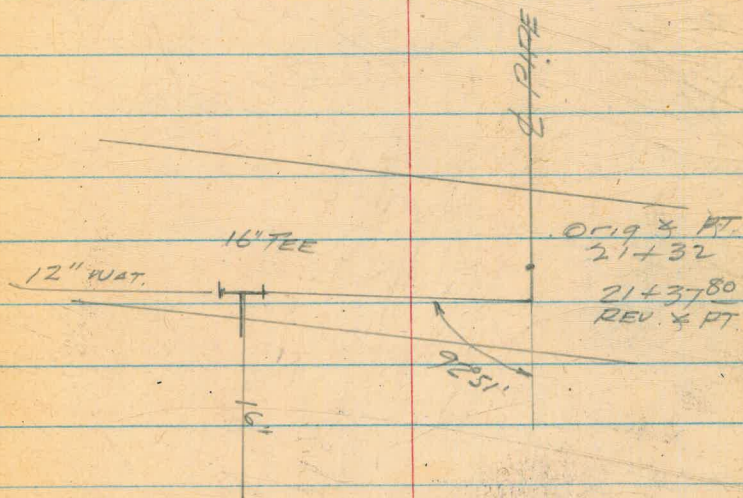
332.51

| | | | | | |
|---------|------------------------|-------|-----------------|-------|-----|
| 20+50 | | 9.8 | 322.7 | 318.0 | C47 |
| +92 | | 10.5 | 322.0 | 315.5 | C65 |
| 21+00 | | 10.6 | 321.9 | 315.2 | C62 |
| +378 | | | | | |
| +320 | X PT (NW) | 10.5 | 322.0 | 313.7 | C83 |
| +320 | " " (SE) | 10.3 | 322.2 | 313.7 | C85 |
| 81.28 | | | | | |
| 21+75 | EAST END OF 16" TEE | 11.0 | 321.5 | 313.7 | C78 |
| CK B.M. | | 11.97 | 320.54 = 320.61 | | |

County B.M. USGS 326.84 = 320.72 CITY
1 PIN under guy anchor
SW Cor Univ & College
See pg 70

2/29/52

SEE GRADE CHANGE
20+32 TO 20+95
pg. 76



COLLEGE AVE
ELEV. of PIPES
ETC.

2/29/52

75

17 3/4

| | | | |
|---------|-------------------|---------------|--------|
| 21+00 | 4.95 55 | 326.85 | 321.9 |
| | 16" C.I. | Top pipe 9.25 | 317.60 |
| | | Bottom 10.75 | 316.10 |
| 20+92 | Top 24" Bottom | 7.62 | 317.23 |
| 20+73 E | Top 4" SEW | 10.03 | 316.82 |
| | | 10.48 | 316.37 |

321.9
31
325.0

EXCAVATED DITCH

| | |
|-------|-------|
| 20+92 | 315.2 |
| 20+82 | 315.2 |
| 20+76 | 315.7 |
| 20+70 | 316.0 |

COLLEGE AVE
 GRADE CHANGE
 TO GET OVER 4" SEWER

2/29/52

76

| | | | | | |
|-------|---------------|--------|--------|--------|----------------|
| BM | 8.00 | 328.61 | 320.61 | | |
| 20495 | (END 2nd 22') | 6.61 | 322.0 | 315.3 | C67 |
| +86 | (S VAL) | 6.55 | 322.06 | 316.0 | C61 |
| +99 | 4" D.O. TEE | 6.55 | 322.06 | 316.75 | C53 |
| +685 | pipe joint | 6.42 | 322.19 | 317.5 | C47 |
| +505 | " | 5.85 | 322.76 | 318.0 | C48 |
| +325 | " | 4.83 | 323.78 | 319.3 | C45 |

20192 6.60

Hort St

Island to K
City Main

10.64 94.64

84.00 East Curb

0+50 8.0 88.6 87.0 5.5

1+00 5.5 89.1 89.8 4.0

1+50 2.3 92.3 93.0 4.0

T.P 12.02 105.85 0.21 93.83

2+00 9.5 96.3 97.1 4.0

1 Curb E. 8.7 97.1

Curb W
2+50 9.3 96.5

2+50 5.1 100.7 101.5 3.8

3+00 1.6 104.2 105.0 3.8

T.P 4.46 109.83 0.48 105.37 1.56

3+50 3.8 106.0 105.6 4.4

4+00 4.3 105.5 105.3 4.2

4+50 6.1 103.7 103.0 4.7

5+00 8.0 101.8 101.1 4.7

| | | | | |
|------|-----|-------|-------|-----|
| 5750 | 9.3 | 100.5 | 99.3 | 5.2 |
| 6400 | 9.1 | 100.7 | 99.5 | 5.2 |
| 6750 | 7.8 | 102.0 | 102. | 4.0 |
| 7400 | 5.6 | 104.2 | 104.8 | 4.0 |

109.83

| | | | |
|-----|--------|-------|-----------|
| 8.2 | 101.63 | 101.6 | Top Mist. |
|-----|--------|-------|-----------|

69.8
82

0.16

5750

640

6450

7400

70

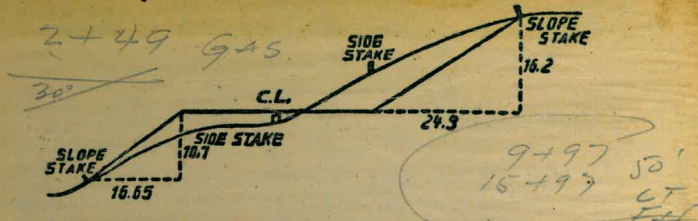
5.421
1.72

3.70

9.72 118.20 10.35
 15.3 110 2.67
 11.25 114.10 11.25
 2.67
 1.17
 15x09

5750
 640
 6450
 7400
 6932
 924
 8000
 4696
 350
 1348
 243
 4226
 4.70
 4696
 350
 4346
 107
 64
 1604
 92051
 87.09
 43.20
 46.48
 2260 11
 420

Please Return to
 City of San Diego Water Dept.
 Room 903 Civic Center
 Telephone F-7511 Ext. 313



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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 HOLYOKE MASSACHUSETTS
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