

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 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.

# 830

37

0 + 60 45  
20 71  
0 + 39 74

Univ

Winona NE spike 333.81  
50th SW BP 330.15

Imperial  
Bec stork + 64  
Top Hydr South curb  
216.12  
63 SE Top Hydr 212.62

MICROFILMED  
JAN 10 1965

Please Return to  
City of San Diego Water Dept.  
Room 903 Civic Center







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  | .89  | .99  | 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 | .051 |
| 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 | .771 | .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 | .616 | .704 | .792 | .880 | .970 | 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 |

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Alley BIK 67  
North of Landis East of 39<sup>th</sup>  
+

West  
worthall  
Varonfakis

6 Aug 52

|                   |      |        |       |                    |
|-------------------|------|--------|-------|--------------------|
|                   | 3.28 | 344.49 |       | 341.21             |
|                   |      |        | 14.56 | +4.1 to Flow line  |
| 0+00              |      |        | 13.9  | 330.6 <sup>v</sup> |
| 0+50              |      |        | 9.1   | 335.4 <sup>v</sup> |
| 1+00              |      |        | 8.0   | 336.5 <sup>v</sup> |
| 1+50              |      |        | 7.0   | 337.5 <sup>v</sup> |
| 2+00              |      |        | 5.9   | 338.6 <sup>v</sup> |
| 2+50              |      |        | 5.7   | 338.8 <sup>v</sup> |
| 3+00              |      |        | 3.7   | 338.8 <sup>v</sup> |
| 3+50              |      |        | 2.6   | 341.9 <sup>v</sup> |
| 4+00              |      |        | 1.9   | 342.6 <sup>v</sup> |
| 4+50              |      |        | 0.9   | 343.6 <sup>v</sup> |
| 5+00              |      |        | 0.3   | 344.2 <sup>v</sup> |
| 5+50              |      |        | 0.5   | 344.0 <sup>v</sup> |
| 6+00              |      |        | 3.8   | 340.7              |
| 6+25 <sup>3</sup> |      |        | 4.0   | 340.5              |
|                   |      |        | 3.29  | 341.20 = 341.21    |

TBM Top CV 0+00 FB 787 Page 77

Top sewer MH of Landis + Alley  
North line Landis St

South prop line wightman  
Top Gate Valve



Alley BIK 67  
 North of Landis East of 39<sup>th</sup>

6+00

South Prop Line Wightman

5+97<sup>7</sup> Wat Met 13° L  
 5+73<sup>3</sup>

4+97 Wat Met 13° L

4+50 Wat Met 13° L

3+93 Wat Met 13° L

3+54 Wat Met 14° L

3+05 Wat Met 13° L

2+66 Wat Met

2+25 Wat Met 14° L

1+80 Wat Met 14° L

1+23 Wat Met 14° L

0+61<sup>7</sup>

0+49<sup>3</sup> Wat Met 14° L

0+50 Wat Met 15° L

0+00

North Prop Line Landis St

Landis St

Wightman St 6" Cone G. Aug 52

6+00 Begin Cone Pav  
 6+23<sup>3</sup> 6" Gate Valve

5+69 Gas Xing

5+64 Wat Met 3° R

5+57 Wat Met 3° R

5+34 Wat Met 4° R

5+20 Gas Xing

4+75 Gas Xing

4+71 Gas Xing

4+65 Wat Met 4° R

4+32 Wat Met 4° R

4+21 Gas Xing

3+90 Wat Met 4° R

3+75 Gas Xing

3+37 Wat Met 4° R

3+35 Gas Xing

2+75 Gas Xing

2+70 Wat Met 4° R

2+38 Gas Xing

2+25 Wat Met 3° R

1+90 Wat Met 4° R

1+25 Wat Met 4° R

0+74 Wat Met 4° R

0+56 Wat Met 4° R

sewer MH



50th St  
 Orange to Trojan  
 & Profile of Proposed Pl.

West  
 Martell  
 Yaron Fakro

7 Aug 53 3

| Sta  | +     | HI     |       |        |
|------|-------|--------|-------|--------|
|      | 1.75  | 334.70 |       | 330.95 |
|      | 8.37  | 73143  | 11.64 | 723.06 |
| D+00 |       |        | 10.0  | 320.83 |
| +50  |       |        | 10.0  | 321.43 |
| 1+00 |       |        | 8.5   | 322.93 |
| +50  |       |        | 5.9   | 325.53 |
| 2+00 |       |        | 3.9   | 327.53 |
| +50  |       |        | 2.2   | 329.2  |
|      | 12.50 | 743.09 | 0.84  | 730.59 |
| 3+00 |       |        | 11.0  | 332.1  |
| +50  |       |        | 7.3   | 335.8  |
| 4+00 |       |        | 3.6   | 339.5  |
|      | 12.77 | 754.65 | 1.21  | 741.88 |
| 4+50 |       |        | 10.1  | 344.6  |
| 5+00 |       |        | 6.4   | 348.3  |
|      | 10.62 | 764.40 | 0.87  | 753.78 |
| +25  |       |        | 12.3  | 352.1  |
| +50  |       |        | 8.2   | 356.2  |

SE BP Orange +49th

Top FH. SE Cor orange +50th

10  
10

|            |           |            |            |
|------------|-----------|------------|------------|
| 11.2       | 11.3      | 11.7       | 12.1       |
| <u>70</u>  | <u>30</u> | <u>50R</u> | <u>70</u>  |
| 8.0        | 8.2       | 9.3        |            |
| <u>10</u>  | <u>30</u> | <u>10R</u> |            |
| 4.0        | 4.3       | 6.1        | 6.5        |
| <u>102</u> | <u>52</u> | <u>90R</u> | <u>19R</u> |

|            |            |            |            |
|------------|------------|------------|------------|
| 11.8       | 9.6        | 10.7       | 10.3       |
| <u>10R</u> | <u>50R</u> | <u>70R</u> | <u>17R</u> |
| 4.3        | 7.3        |            |            |
| <u>102</u> | <u>80</u>  | <u>10R</u> |            |

|            |           |            |            |            |
|------------|-----------|------------|------------|------------|
| 6.3        | 3.0       | 10.2       | 12.2       | 12.0       |
| <u>102</u> | <u>70</u> | <u>60R</u> | <u>80R</u> | <u>18R</u> |



50th St  
 Profile Cont

4

|      |        |        |          |          |  |
|------|--------|--------|----------|----------|--|
| 5+65 | 364.40 | 50     | 359.4    |          |  |
| +68  |        | 3.5    | 360.9    |          |  |
| +75  |        | 3.4    | 361.0    |          |  |
|      | 11.46  | 375.32 | 0.54     | 363.86   |  |
| 6+00 |        | 11.3   | 364.02   |          | $\frac{9.8}{8^{\circ}}$ $\frac{9.0}{7^{\circ}}$ $\frac{13^{\circ}}{7^{\circ}}$ |
| +25  |        | 5.6    | 369.7    |          | $\frac{5.9}{5^{\circ}}$ $\frac{4.9}{8^{\circ}}$ $\frac{7.2}{10^{\circ}}$       |
| +50  |        | 3.3    | 372.0    |          | $\frac{3.0}{10^{\circ}}$ $\frac{3.3}{10^{\circ}}$                              |
| 6+85 |        | 1.29   | 374.0    | edge oil |  |
| 7+00 |        | 0.24   | 375.1    |          |  |
|      | 5.28   | 380.35 | 0.25     | 375.07   |  |
|      |        | 4.13   | 376.22 = | 376.16   | NW BR Twp 50 N   |



50<sup>th</sup> St

Orange to Trojan St

7+40<sup>16</sup>

North Prop Line Trojan Ave

6+85 edge 2" oil

5+80 28'1 Begin  
Curb

Trojan Ave 7+10 3" water 5

FD & Nail  
FD 5x5 Hub

6+25 7°R  
end 2000 steps

5+81 7°R  
2000 steps

60



Oil water & Gas in Alley

Proposed Pk

600.16

40 x 20

FD 5x5 Hub

0+00

South prop Line Orange

Orange Ave 0+60 8" HP Cob Xing



52nd St  
 Proposed Water Line  
 + University to El Cajon

West  
 Powell  
 Fish

11 Aug 52

|      |       |        |                                     |
|------|-------|--------|-------------------------------------|
| Sta  | 0.43  | 316.00 | 315.57                              |
| 0+10 |       | 0.0    | 316.0 ✓                             |
| 0+30 |       | 0.0    | 316.0 ✓                             |
| 0+50 |       | 0.63   | 315.4 ✓                             |
| 0+60 |       | 0.83   | 315.2 ✓                             |
| 1+00 |       | 6.2    | 309.8 ✓                             |
| +50  |       | 12.4   | 303.4 ✓                             |
|      | 4.93  | 307.55 | 13.38 <del>302.62</del>             |
| 2+00 |       | 6.8    | <del>300.8</del> ✓                  |
| +09  |       | 9.57   | 298.0 @ 289.5<br>+ 9.5 to Flow line |
| +50  |       | 6.1    | 301.5 ✓                             |
| 3+00 |       | 6.0    | 301.6 ✓                             |
| +50  |       | 6.7    | 300.9 ✓                             |
| 4+00 |       | 3.6    | 304.0 ✓                             |
| +50  |       | 0.8    | 306.8 ✓                             |
|      | 13.00 | 320.20 | 0.35 307.20                         |
| 5+00 |       | 12.4   | 307.8 ✓                             |
| +50  |       | 10.5   | 309.7 ✓                             |
| 6+00 |       | 8.8    | 311.4 ✓                             |

S  
 W  
 E  
 N

BM N.V. 13P 52nd + University

Q University  
 Batter Line

5.6  
 14.0  
 9.7  
 2.7

8.5  
 20.0  
 10R

14.2  
 10R

Sewer MH

6.4  
 0

8.8  
 12.8  
 10R

6.1 3.2 10.7  
 5.7 5.2 0

5.0  
 6.4  
 10R

1.3  
 10.2  
 0

11.4  
 12.6  
 10R

10.8  
 9.5  
 8R 10.4  
 18R

8.6  
 0



West  
Powell  
Fish

12 Aug 57

| Sta               | +     | Hi     | -    |          |
|-------------------|-------|--------|------|----------|
| 6+50              |       | 320.20 | 7.0  | 313.0 ✓  |
| 6+79 <sup>8</sup> |       |        | 6.5  | 313.7 ✓  |
| 7+00              |       |        | 5.8  | 314.4 ✓  |
| 7+50              |       |        | 9.0  | 316.2 ✓  |
| 8+00              |       |        | 2.4  | 317.8 ✓  |
|                   | 11.20 | 328.13 | 3.27 | 316.93   |
| 8+48 <sup>5</sup> |       |        | 8.5  | 319.6 ✓  |
| 9+00              |       |        | 4.0  | 324.1 ✓  |
| 9+50              |       |        | 0.8  | 327.3 ✓  |
|                   | 13.27 | 341.25 | 0.15 | 327.98 ✓ |
| 10+00             |       |        | 9.2  | 332.1 ✓  |
| 10+50             |       |        | 4.8  | 336.5 ✓  |
| 11+00             |       |        | 1.7  | 339.6 ✓  |
|                   | 13.24 | 354.41 | 0.08 | 341.17   |
| 11+50             |       |        | 9.7  | 344.7 ✓  |
| 12+00             |       |        | 6.9  | 347.5 ✓  |
| 12+50             |       |        | 2.0  | 352.4 ✓  |
|                   | 13.27 | 367.59 | 0.09 | 354.32   |
| 13+00             |       |        | 10.4 | 357.2    |

NOTE:-  
Sta. 0+00, GR. 18

|      |      |
|------|------|
| 5.3  | 4.6  |
| 4.2  | 1.0R |
| 1.3  | 1.1  |
| 7.2  | 1.0R |
| 10.3 | 8.5  |
| 9.2  | 10.0 |
| 9.0  | 6.2  |
| 10.3 | 10.3 |
| 9.2  | 3.2  |
| 6.2  | 5.6  |
| 9.2  | 4.2  |
| 3.7  | 1.0R |
| 2.2  | 0.6  |
| 9.2  | 1.4  |
| 6.2  | 1.0R |
| 10.3 | 7.4  |
| 9.2  | 1.0R |
| 6.4  | 4.3  |
| 9.2  | 3    |
| 6.2  | 3.5  |
| 2.6  | 1.0R |
| 6.2  |      |
| 10.9 | 10.3 |
| 6.2  | 4.2  |



52<sup>nd</sup> St

367.59

13+50

3.0

364.6 ✓

12.33

379.70

0.22

367.37

14+00

7.6

372.1 ✓

POT  
+41<sup>32</sup>

2.5

377.2

+50

1.9

377.8 ✓

15+00

0.9

378.8 ✓

7.97

386.34

1.33

379.37 ✓

+50

+73.53

5.7

380.6 ✓

+54

4.6

381.7 ✓

+56

3.4

382.9 ✓

+59

2.6

383.7 ✓

16+00

+73.53

3.0

383.3 ✓

+50

4.2

382.1 ✓

17+00

9.2

377.1 ✓

1.26

374.48

13.12

373.22

+50

8.8

365.7 ✓

0.11

361.25

13.34

361.14

18+00

+73.53

4.4

356.9

18+50

7.4

353.9

0.46

348.74

12.97

348.28

NOTE: -  
0+00 = 14+26.47  
in GR. 20

8

 $\frac{42}{42}$  $\frac{3.8}{70R}$  $\frac{7.9}{30}$  $\frac{85}{40R}$  $\frac{6.4}{6R}$ 

South Curb Line Orange St Ave.

 $\frac{2.7}{50}$  $\frac{1.7}{80}$  $\frac{1.3}{60}$  $\frac{0.3}{100}$ Turn on end curb return NW Cor. Orange + 55<sup>th</sup> $\frac{42}{60}$  $\frac{2.0}{100}$  $\frac{43}{130}$  $\frac{46}{402}$  $\frac{2.4}{10}$  $\frac{142}{130}$  $\frac{102}{62}$  $\frac{6.8}{10}$  $\frac{14.3}{102}$  $\frac{6.4}{10R}$  $\frac{9.4}{10}$  $\frac{0.4}{10}$  $\frac{13.2}{132}$  $\frac{4.4}{75R}$







76.16  
105.85  
280

|       |          |        |       |                 |
|-------|----------|--------|-------|-----------------|
| 23+59 |          | 369.06 | 12.03 | 357.0 & 348.8   |
| 24+00 | 9+73.53  |        | 7.2   | 361.9 ✓         |
| +50   |          |        | 5.6   | 363.5 ✓         |
| 25+00 | 10+73.53 |        | 5.9   | 363.2 ✓         |
| +50   |          |        | 7.6   | 361.5 ✓         |
| 26+00 | 11+73.53 |        | 8.8   | 360.3 ✓         |
| +50   |          |        | 9.8   | 359.3 ✓         |
| 27+00 | 12+73.53 |        | 7.7   | 361.4 ✓         |
| +50   |          |        | 6.3   | 362.8 ✓         |
| 28+00 | 13+73.53 |        | 3.9   | 365.2 ✓         |
|       | 8.50     | 376.60 | 0.96  | 368.10          |
| +18   |          |        | 8.90  | 367.70 ✓        |
| +50   |          |        | 7.4   | 369.2 ✓         |
| 29+00 | 14+73.53 |        | 4.7   | 371.91 ✓        |
| +48   |          |        | 3.5   | 373.3 ✓         |
| +50   |          |        | 3.0   | 373.6 & 362.6   |
|       |          |        |       | +112 to Flowlin |
|       |          |        | 2.50  | 374.08 ✓        |
|       | 13.35    | 387.43 | 0.63  | 386.80 =        |

Top Sewer M14 141

|     |     |     |
|-----|-----|-----|
| 7.2 | 6.6 | 103 |
| 6.0 | 4.9 | 70  |
| 5.5 | 4.7 | 76  |
| 7.2 | 5.0 | 72  |
| 7.1 | 6.0 | 92  |
| 8.0 | 4.2 | 70  |

|     |      |      |
|-----|------|------|
| 8.2 | 8.3  | 70   |
| 5.0 | 3.0  | 10.0 |
|     | 5.0  |      |
|     | 10.0 |      |
|     | 5.4  |      |
|     | 10.0 |      |
|     | 1.3  |      |
|     | 1.0  |      |

Automatic Traffic Signal Pad 90°

|      |      |
|------|------|
| 6.6  | 5.4  |
| 5.0R | 10.0 |

Sewer M14 90 Lt

386.84 SW BP 51<sup>st</sup> + El Cajon



52nd St

Proposed P.L.

X PT 8+48.05 11° 14' RT

SEE PG.

41.

X PT 6+79.80

11° 28' LT

20  
20  
40

Polk Ave

40°

67.3

64.3

Fd 1/2 Cor mon

X PT 8+48.05

All Water & Gas in Alley

Fd 1/2 Prop Cor

X PT 6+79.80

Ottolie Place

Prop Line

40'

30'

Dead 6" Sewer Line

2+10 Sewer Xing  
MH 21R & PL

Black Top  
over Concrete

University

0+20 Water Xing

0+00 South Prop Line University

11.



53rd St

13 Aug  
West  
Powell  
Fish

Single Lane  
Dirt Road  
Very steep & rough

← 10' →

1A  
X 3 + 41 32

P.O.T

Orange St

↳ Join  
to Old  
Road

14 + 35 Gas Xing

14 + 10 F.H. 27' R

14 + 08 Water  
Mut 29' L

(X 3 + 41 32)

14 + 41 32

All Water + Gas in Olley

53rd St



28 + 47 05

← 40' →



55<sup>th</sup> St

E1 Cajon Blvd 13

29+48

South Prop Line E1 Cajon

29+49 Sewer  
MH 951

29+49 Curb 40' R  
29+41 Begin Curb  
Return 20' R

27+85 Water  
meters 34' R

Water Lines From  
meters run into  
street but cannot  
pick up main with  
finder

1" Private Lines

Proposed RL

23+59 Sewer  
MH 1201

20+16 13/2  
Sewer MH

21+37 Sewer  
Thick Line  
on Trojan

Trojan St

57<sup>th</sup> Trojan St RL

← 40' →

← 40' →





## Wrightman + Altadena

14

Q Profile

| Sta        | +    | HI     | -     |                               |  |
|------------|------|--------|-------|-------------------------------|--|
|            | 6.07 | 333.19 |       | 327.12                        | BM 1 1/2 IP SE Cor Landis + 52 <sup>nd</sup> |
|            | 0.78 | 321.51 | 12.46 | 320.73                        |  |
|            | 2.39 | 323.54 | 0.36  | 321.15                        | Turn on top Fire Hyd Landis + Altadena       |
|            | 8.68 | 327.66 | 4.56  | 318.98                        | ina SE Cor                                   |
|            |      |        | 1.16  | 326.50                        | 1/2 IP on Subdivision Line East side         |
| 0+00       |      |        | 1.9   | 325.8 ✓                       | st   |
| +50        |      |        | 5.9   | 321.8 ✓                       |  |
| 1+00       |      |        | 8.7   | 319.0 ✓                       |  |
|            |      |        | 10.97 | +130 Flow Line<br>316.7       |  |
| +50        |      |        | 10.4  | 317.3 ✓                       | N Rin Sewer MH Q Sterling Q + Altadena       |
| 09<br>1+77 |      |        | 11.4  | 316.3 ✓                       | 2 PT 7° LT                                   |
| 2+00       |      |        | 12.3  | 315.4 ✓                       |  |
| +50        |      |        | 13.2  | 314.5 ✓                       |  |
| 3+00       |      |        | 13.0  | 314.7 ✓                       |  |
| +50        |      |        | 12.3  | 315.4 ✓                       |  |
| +88        |      |        | 11.92 | +13.5 to Flow Line<br>315.7 ✓ | Top Sewer MH                                 |
| 4+00       |      |        | 11.4  | 316.3 ✓                       |  |
| +50        |      |        | 10.6  | 317.1 ✓                       |  |
| 5+00       |      |        | 10.0  | 317.7 ✓                       |  |
| 80<br>+24  | 5.88 | 323.79 | 9.75  | 317.91 ✓                      | Turn on road                                 |
| +50        |      |        | 5.6   | 318.2 ✓                       |  |



|                |        |      |         |
|----------------|--------|------|---------|
| 5+75           | 323.79 | 5.4  | 318.4 ✓ |
| 6+00           |        | 5.2  | 318.6 ✓ |
| +25            |        | 5.0  | 318.8 ✓ |
| +30            |        | 4.73 | 319.1 ✓ |
| +50            |        | 4.9  | 318.9 ✓ |
| +75            |        | 5.0  | 318.8 ✓ |
| +83            |        | 4.73 | 319.1 ✓ |
| 7+00           |        | 5.2  | 318.6 ✓ |
| +25            |        | 5.3  | 318.5 ✓ |
| +50            |        | 5.7  | 318.1 ✓ |
| +75            |        | 6.9  | 316.9 ✓ |
| 8+00           |        | 8.5  | 315.3 ✓ |
| +25            |        | 10.1 | 313.7 ✓ |
| RRC CL<br>8+41 |        | 11.0 | 312.8 ✓ |
| 8+50           |        | 11.5 | 312.3 ✓ |
| +75            |        | 13.0 | 310.8 ✓ |

0.74 31139 13.14 310.65

|      |  |      |         |
|------|--|------|---------|
| 9+00 |  | 1.9  | 309.5 ✓ |
| +25  |  | 2.8  | 308.6 ✓ |
| +35  |  | 3.61 | 307.8 ✓ |
| +50  |  | 3.9  | 307.5 ✓ |

21. Sewer MH D London  
 319.06 Sewer MH D London 21° L

Sewer MH North rim 15° L



|                         |      |        |       |                                    |
|-------------------------|------|--------|-------|------------------------------------|
| 9+75                    |      | 311.39 | 5.9   | 305.5 ✓                            |
| 10+00                   |      |        | 8.2   | 303.2 ✓                            |
| +25                     |      |        | 10.7  | 300.7 ✓                            |
|                         | 0.51 | 298.82 | 13.08 | 298.31 ✓                           |
| 10+50                   |      |        | 1.2   | 297.6 ✓                            |
| +65 <sup>10</sup>       |      |        | 2.6   | 296.2                              |
| +62 <sup>10</sup>       |      |        | 3.76  | +7.9 To Flow Line<br>296.1 & 290.9 |
| +75                     |      |        | 3.8   | 295.0                              |
| 11+00                   |      |        | 5.9   | 292.9 ✓                            |
| +25                     |      |        | 7.4   | 291.4 ✓                            |
| +50                     |      |        | 9.1   | 289.7 ✓                            |
| EC<br>+69 <sup>10</sup> |      |        | 10.4  | 288.4 ✓                            |
| 12+00                   |      |        | 12.2  | 286.6 ✓                            |
|                         | 1.46 | 287.21 | 13.07 | 285.75                             |
| 12+48                   |      |        | 2.56  | 6.0 To Flow Line<br>284.65 & 279.6 |
| +50                     |      |        | 2.40  | 284.8                              |
| 13+00                   |      |        | 4.4   | 282.8                              |
| +50                     |      |        | 7.6   | 279.6                              |
| +96                     |      |        | 9.9   | 277.3 & 271.6                      |
| 14+00                   |      |        | 10.9  | +5.1 To Flow Line<br>276.3 ✓       |
| 80<br>+03 <sup>10</sup> |      |        | 10.8  | 276.4 ✓                            |
| 14+25                   |      |        | 11.5  | 275.7 ✓                            |
| +50                     |      |        | 12.5  | 274.7 ✓                            |

Nail in Pole 10+62<sup>10</sup> #4478444

POC Top sewer NH 5<sup>3</sup>R South edge

298.31  
3.98  
302.29  
6.23  
296.06  
298.72  
6.06  
276

|                                       |      |      |     |
|---------------------------------------|------|------|-----|
| South edge sewer MH 11 <sup>2</sup> R |      |      |     |
| +20                                   | 0.0  | 23   | 3.2 |
| 10.0                                  | 5.0  | 3.0  | 3.0 |
| +20                                   | 0.0  | 3.9  | 5.4 |
| 10.0                                  | 4.0  | 2.5  | 4.0 |
|                                       | 5.2  | 7.2  | 8.0 |
|                                       | 1.0  | 3.0  | 3.0 |
| 5 edge sewer MH 10 <sup>2</sup> R     |      |      |     |
|                                       | 9.5  | 10.6 |     |
|                                       | 10.0 | 4.0  |     |
|                                       | 11.1 | 11.1 |     |
|                                       | 11.0 | 11.6 |     |
|                                       | 1.0  | 5.0  |     |
|                                       | 12.1 | 12.4 |     |
|                                       | 1.0  | 2.0  |     |



|             |        |          |        |                  |
|-------------|--------|----------|--------|------------------|
| TP          | 3.90   | 287.21   | 12.57  | 274.64           |
| 14+75       |        | 278.54   | 4.5    | 274.0            |
| 15+00       |        |          | 5.2    | 273.3            |
| +25         |        |          | 5.4    | 272.1            |
| +59         |        | (272.46) | 6.08   | +7.7 to 6" sewer |
| +50         |        |          | 5.9    | 272.5 & 265.4    |
| +70         |        |          | 7.9    | 272.6            |
| +76         |        |          | 12.3   | 276.6            |
|             |        |          | 5.7    | 266.2            |
| +87         |        |          | 12.8   | 266.0            |
| +90         |        |          | 9.5    | 269.0            |
| +91         |        |          | 6.9    | 276.7            |
| 16+10       |        |          | 5.2    | 273.3            |
| +50         |        |          | 3.5    | 275.0            |
| BC<br>16+90 |        |          | 1.5    | 277.0            |
| 10.75       | 288.32 | 0.97     | 277.57 |                  |
| 17+00       |        |          | 9.6    | 278.7            |
| +50         |        |          | 5.0    | 283.3            |
| 18+00       |        |          | 3.6    | 284.7            |
| +50         |        |          | 1.7    | 286.6            |
| BC<br>+75   |        |          | 0.1    | 288.3            |
| 12.13       | 300.13 | 0.32     | 288.00 |                  |
| 19+00       |        |          | 9.5    | 290.6            |

4.2 4.5  
10.0 3.0

+8.3 to Howline sewer  
top Sewer MH

Top of Bank

top two 6' x 6' concrete box Culverts 13' R

edge of wooden Hd wall

3.2 3.3  
10 3.0  
4.3 1.0 1.4  
10.0 5.0 3.0

11.4 8.8  
10.0 6.0

east edge 50<sup>th</sup> St  
27 38  
70. 6.0  
1.2 1.5  
8.0 6.0

10.4 8.8 9.2  
10.0 5.0 4.0

South edge  
5.6  
70

8<sup>th</sup> Rt. to Headwall



|       |        |     |                   |
|-------|--------|-----|-------------------|
| 19+25 | 300.13 | 7.1 | 293.0             |
| +50   |        | 5.1 | 295.0             |
| +53   |        | 4.7 | +7.5 to Flow Line |
| +75   |        | 3.0 | 297.1             |

|     |     |
|-----|-----|
| 8.5 | 6.8 |
| 10  | 4.0 |

N edge Sewer MH 32 L

|       |        |      |        |
|-------|--------|------|--------|
| 20+00 |        | 0.0  | 300.1  |
| 11.02 | 310.66 | 0.49 | 299.64 |

|        |  |     |       |
|--------|--|-----|-------|
| +25    |  | 8.1 | 302.6 |
| +50    |  | 6.9 | 303.8 |
| P.C.C. |  |     |       |
| +76    |  | 6.0 | 304.7 |

|       |  |     |                   |
|-------|--|-----|-------------------|
| 21+00 |  | 5.1 | 305.6             |
| +25   |  | 4.5 | 306.2             |
| +48   |  | 4.4 | +6.5 to Flow Line |
| +50   |  | 3.8 | 306.9             |

Top Sewer MH 12 L

|        |             |      |                      |
|--------|-------------|------|----------------------|
| EO     |             |      |                      |
| +51.33 |             | 3.7  | 307.0                |
| 22+03  | End of line | 1.15 | +1.35 top stem 309.5 |

Top G.V 6" AO Winona edge of end of curb

|       |        |      |        |
|-------|--------|------|--------|
| 12.14 | 321.75 | 1.05 | 309.61 |
|-------|--------|------|--------|

|       |        |      |        |
|-------|--------|------|--------|
| 11.77 | 330.74 | 0.78 | 320.97 |
|-------|--------|------|--------|

|      |        |      |        |
|------|--------|------|--------|
| 3.20 | 335.24 | 0.70 | 332.04 |
|------|--------|------|--------|

|      |        |      |        |
|------|--------|------|--------|
| 6.18 | 336.24 | 5.18 | 330.06 |
|------|--------|------|--------|

|      |        |   |        |
|------|--------|---|--------|
| 6.17 | 330.05 | = | 330.15 |
|------|--------|---|--------|











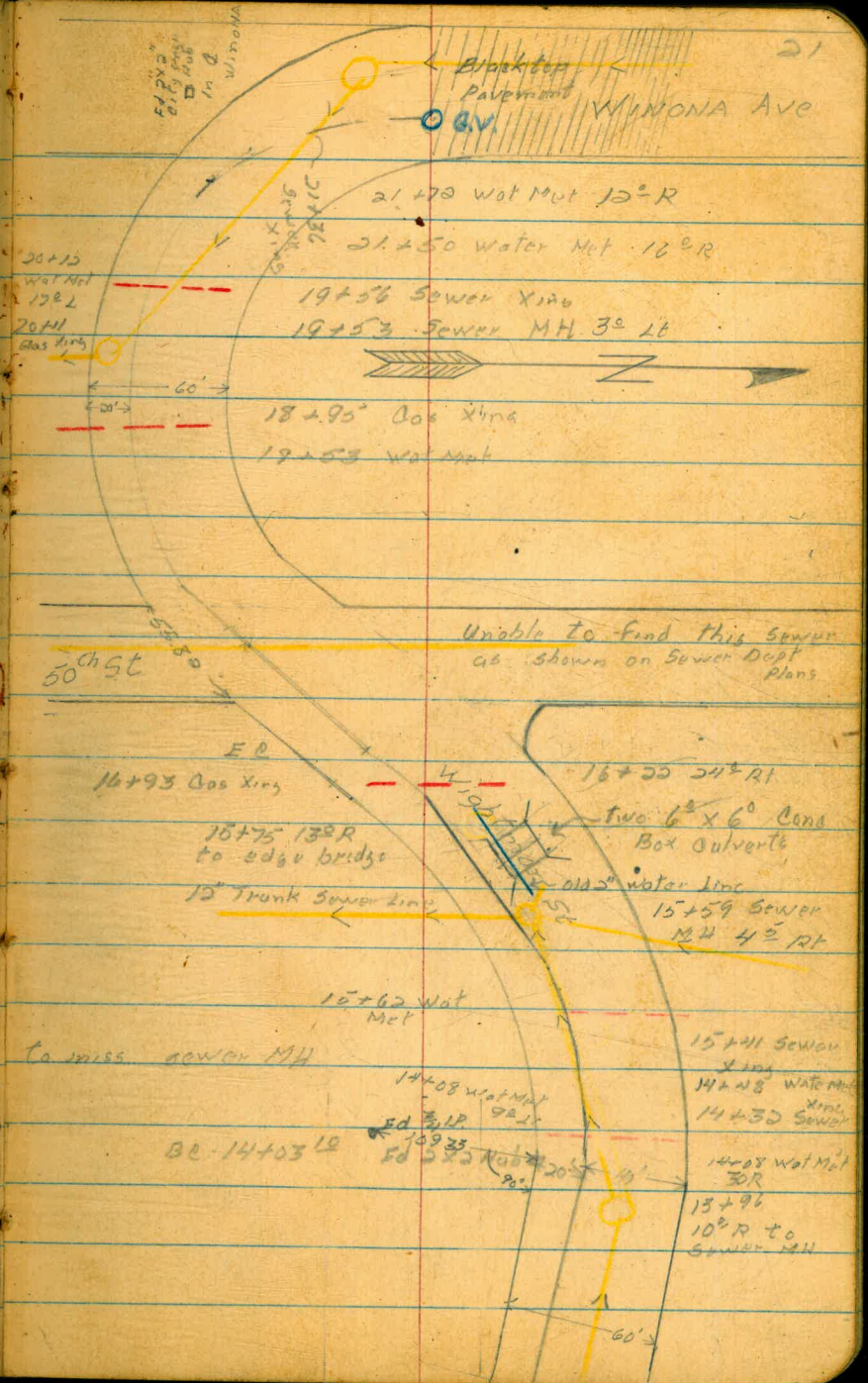
22 + 03 <sup>45</sup> End 6" C.V.  
 21 + 54 <sup>33</sup> EC  
 20 + 76 P.O.O. Δ 45° 52' RT  
 R 97.85  
 L 78.33  
 T = 41.4  
 BC 18 + 72 <sup>82</sup> Δ 70° 31' 50" RT  
 R = 165'  
 L = 203.11

EC = 16 + 80 <sup>10° 18' LT</sup>

= 16 + 55 A11  
 16 + 24 <sup>27</sup> ~~27~~ BK <sup>17° 35' LT</sup>  
 chord

15 + 25 <sup>8</sup> 11° 27' 40" L' Chorded curve

14 + 03 <sup>10</sup> BC Δ 63° 27' 46" LT  
 R = 250  
 L = 276.91





50<sup>th</sup> St University to  
Oakcrest

Q Profile

Sept 4, 52 22

|                   |       |        |       |                  |                                      |
|-------------------|-------|--------|-------|------------------|--------------------------------------|
|                   | 12.54 | 342.69 |       | 330.15           | SW. BD 50 <sup>th</sup> + University |
| 0-08              |       |        |       | +9.3 to Flowline | Top Sewer MH 100 ft                  |
| 0+00              |       |        | 13.3  | 329.4            | South Prop Line University           |
| 0+00              |       |        | 14.8  | 327.9            | Top Gate Valve Stem                  |
| 0+50              |       |        | 12.30 | 330.4            |                                      |
| 0+64              |       |        | 12.70 | 329.99           | edge oil North Line University       |
| 0+75              |       |        | 14.25 | 328.4            | Top Stem<br>C.V. 0.5 left Q.V.       |
| 1+00              |       |        | 11.7  | 330.99           | 17.55<br>1.3<br>14.25                |
| +50               |       |        | 9.0   | 333.7            |                                      |
| 2+00              |       |        | 5.9   | 336.8            |                                      |
| +50               |       |        | 2.7   | 339.99           |                                      |
| +68               |       |        | 1.55  | +9.7 to Flowline | Top Sewer MH E edge 102              |
| 3+00              |       |        | 0.3   | 342.4            |                                      |
|                   | 8.47  | 350.78 | 0.38  | 342.31           |                                      |
| +50               |       |        | 7.3   | 343.5            |                                      |
| 4+00              |       |        | 6.3   | 344.5            |                                      |
| +50               |       |        | 5.3   | 345.5            |                                      |
| 5+00              |       |        | 4.6   | 346.2            |                                      |
| +29 <sup>20</sup> |       |        | 4.1   | 346.7            |                                      |
| +69 <sup>20</sup> |       |        | 4.2   | 346.6            |                                      |
| +89 <sup>20</sup> |       |        | 4.2   | 346.6            |                                      |
|                   | 0.69  | 342.55 | 8.92  | 341.86           | North Prop Line Oakcrest             |
|                   |       |        | 12.41 | 330.14 = 330.15  |                                      |



50<sup>th</sup> St  
Proposed PL

5+88<sup>20</sup>

east Prop Line Oakcrest

5+68<sup>20</sup>

10' past Oakcrest

5+29<sup>20</sup>

54° RI

0+64

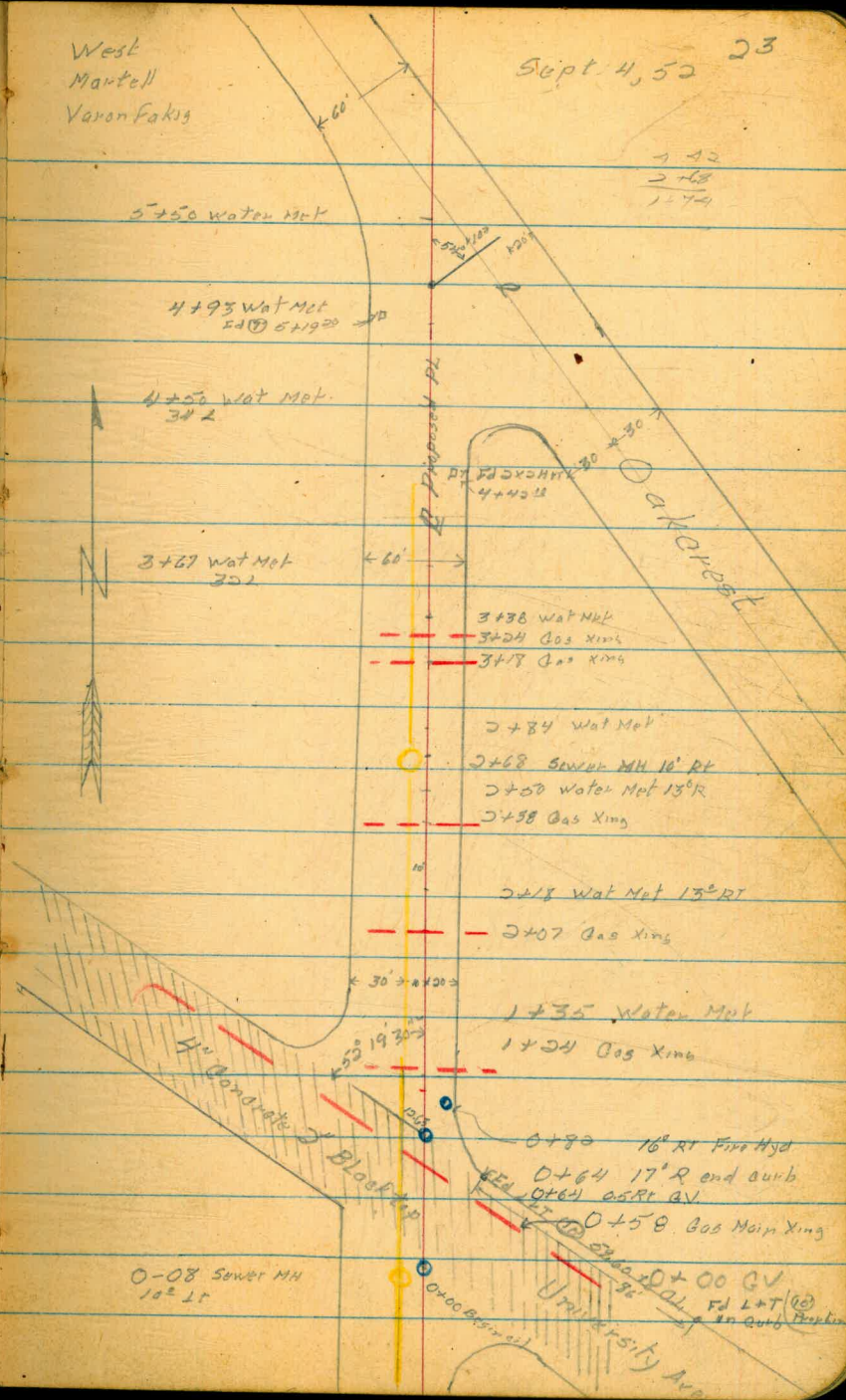
North Line University

0+00

South Line University

West  
Mantell  
Varon Fakis

Sept. 4, 50 23





# OAKCREST

University to Winona  
Proposed R.L.  
H.I.

West  
Martell  
Varenfakis

Sept 8, 02 24

Sta

|                    |       |        |       |                            |
|--------------------|-------|--------|-------|----------------------------|
|                    | 0.60  | 330.75 |       | 330.15                     |
|                    | 3.67  | 323.74 | 10.68 | 320.07                     |
| 0+00               |       |        | 9.8   | 313.9                      |
| 0+10               |       |        | 10.7  | 313.0                      |
| 0+10 <sup>2</sup>  |       |        | 11.2  | 312.5                      |
| 0+50               |       |        | 11.3  | 312.4                      |
| +60                |       | 10.50  |       | 313.2<br>+4.5 to Flow Line |
| 1+00               |       |        | 5.2   | 318.4                      |
|                    | 12.73 | 334.80 | 1.65  | 322.09                     |
| +50                |       |        | 9.2   | 325.6                      |
| BC                 |       |        |       |                            |
| 1+65 <sup>45</sup> |       |        | 7.3   | 327.5                      |
| +75                |       |        | 6.3   | 328.5                      |
| 2+00               |       |        | 3.0   | 331.82                     |
|                    | 11.08 | 343.06 | 2.24  | 331.98                     |
| +25                |       |        | 9.2   |                            |
| +50                |       |        | 6.8   | 336.2                      |
| +75                |       |        | 5.1   | 337.9                      |
| +79                |       |        | 4.80  | +73.5 to Flow Line         |
| 3+00               |       |        | 3.7   | 339.2                      |
| BC                 |       |        |       | 339.2                      |
| 3+20 <sup>25</sup> |       |        | 2.8   | 340.2                      |
| +50                |       |        | 0.0   | 341.0                      |
| 4+00               |       |        | 0.80  | 343.2                      |

S.W. BP 50<sup>th</sup> + University

Top MH 0+00 11<sup>2</sup> Lt

Top Curb

Top Blacktop

Top East edge MH 12<sup>2</sup> Lt

$\frac{5.9}{102}$      $\frac{5.5}{92}$

Turn on back

$\frac{92}{50}$      $\frac{9.9}{52}$      $\frac{5.6}{13}$   
 $\frac{82}{42}$      $\frac{4.6}{11}$   
 $\frac{72}{32}$      $\frac{3.6}{98}$   
 $\frac{32}{12}$      $\frac{1.6}{30}$      $\frac{1.6}{100}$   
 $\frac{82}{18}$      $\frac{8.6}{100}$

Top east edge MH 4<sup>2</sup> Lt



Ook crust cont

25

|        |      |        |       |        |
|--------|------|--------|-------|--------|
|        | 8.24 | 343.06 | 0.70  | 342.34 |
|        |      | 350.58 |       |        |
| 4+50   |      |        | 7.3   | 343.2  |
| 5+00   |      |        | 6.6   | 343.9  |
| +50    |      |        | 6.1   | 344.4  |
| 6+00   |      |        | 5.6   | 344.9  |
| +50    |      |        | 5.3   | 345.2  |
| +59    |      |        | 4.99  | 345.6  |
| 7+00   |      |        | 4.9   | 345.6  |
| +50    |      |        | 4.5   | 346.0  |
| 8+00   |      |        | 4.1   | 346.4  |
| +50    |      |        | 3.58  | 347.0  |
| 9+00   |      |        | 3.2   | 347.3  |
| +50    |      |        | 3.0   | 347.5  |
| 10+00  | 5.80 | 353.67 | 2.71  | 347.87 |
| +50    |      |        | 5.5   | 348.1  |
| 11+00  |      |        | 4.8   | 348.8  |
| +00 25 |      |        | 4.9   | 348.7  |
| +50    |      |        | 5.6   | 348.0  |
| 12+00  |      |        | 5.5   | 348.1  |
| +50    |      |        | 7.4   | 346.2  |
|        |      |        | 7.4   | 6.27   |
| 13+00  |      |        | 8.0   |        |
| +10    |      |        | 9.50  |        |
|        | 0.31 | 349.76 | 6.50  | 347.45 |
|        | 1.60 | 339.51 | 11.87 | 337.89 |

350.58  
4.99  
345.59

Top East edge sewer MH

Turn on a nail

$\frac{50}{100}$        $\frac{59}{52}$

Top of sewer Winona

Edge of West prop line Winona  
339.51 - 9.43 = 330.08 = 330.15







13 + 10<sup>10</sup>

10° South @ Polk  
West Prop Winona St

11+00 <sup>75'</sup> Δ 53° 37' Lt

D+50 N° 11 to Guy Pole  
12+50 2° Lt to end curb Return east side Winona St  
12+39 4° Lt to Dead Man

WINONA AVE

10+01 Wat Met 40 Lt  
11+92 Gas Xing  
11+92 Gas Xing  
11+92 Wat Met N° 11

11+00 Gas Xing

10+94 Wat Met 2° Lt

DE

5' 6"

10' 12" Comp. 20' RT

10+28 Gas Xing  
8+00 Wat Met 10° RT

10+05 Gas Xing  
10+04 Wat Met 13° R

4+90 Wat Met 30 Lt

9+41 2° Lt 50' RT

9+30 Wat Met 30 Lt

9+07 Gas Xing

9+38 Wat Met 12° RT

8+78 Wat Met 30 Lt

8+95 Gas Xing

8+75 Wat Met 12° RT

8+48 Gas Xing  
9+30 Wat Met 75° RT

8+13 Gas Xing  
8+12 Wat Met 12° RT

50' 50"





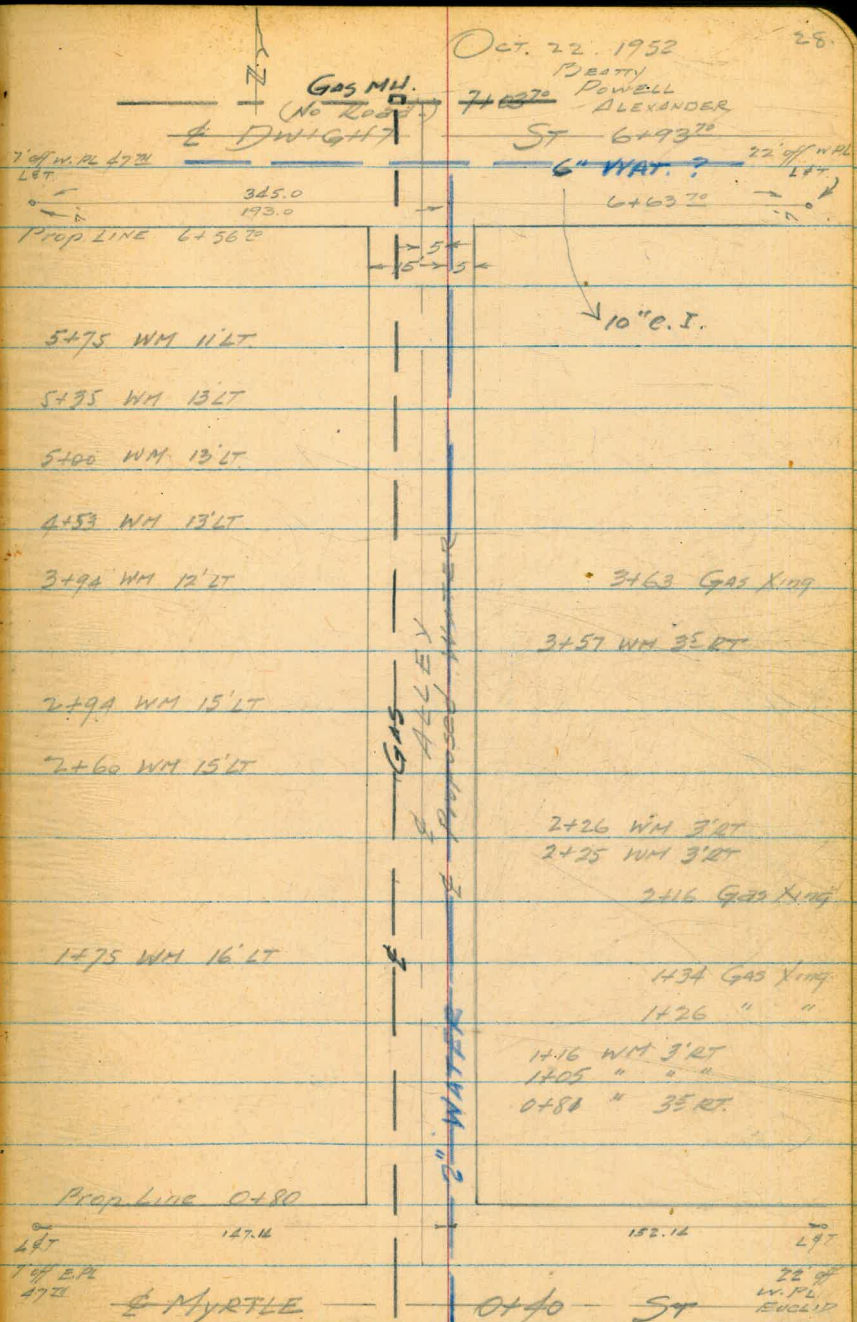
ALLEY BLK. 4  
 NOR. OF MYRTLE ST.  
 EAST OF 47<sup>TH</sup> ST.  
 & PROPOSED 6" WATER

6+56.70 So Prop Line DWIGHT

# 983

0+80

0+00





ALLEY BLK 4  
 & Profile Proposed WATER

10-22-52

29

| B.M.           | 7.22 | 340.03 | 332.81       |
|----------------|------|--------|--------------|
| 0+00           |      | 13.1   | 326.9        |
| +15 (E Myrtle) |      | 12.8   | 327.2        |
| +40            |      | 12.2   | 327.8        |
| +65            |      | 11.8   | 328.2        |
| 0+80           |      | 10.2   | 329.8        |
| 1+00           |      | 9.2    | 330.8        |
| +50            |      | 7.6    | 332.4        |
| 2+00           |      | 5.6    | 334.4        |
| +50            |      | 4.3    | 335.7        |
| 3+00           |      | 3.2    | 336.8        |
| +50            |      | 2.6    | 337.4        |
| 4+00           |      | 3.7    | 336.3        |
| +50            |      | 5.4    | 334.6        |
| 5+00           |      | 7.4    | 332.6        |
| +10            |      | 7.9    | 332.1        |
| +20            |      | 11.5   | 328.5        |
| +32            |      | 13.3   | 326.7        |
| 6+91           | 1.00 | 327.95 | 13.08 326.95 |

B.P. NW Cor DWIGHT & EUCLID



ALLEY BLK 4  
(Cont'd)

10-22-52

770

5+35 327.95 26 325.4

$\frac{10}{10} \frac{1.4}{3}$

$\frac{6.5}{5} \frac{10.8}{10}$

+50 9.1 318.9

$\frac{51}{10}$

$\frac{12.1}{5} \frac{15.3}{10}$

P 0.53 317.24 11.24 316.71

+80 9.1 308.1

6+00 13.3 303.9

$\frac{10.8}{10} \frac{12.6}{5}$

$\frac{14.6}{5} \frac{16.0}{10}$

P 5.11 309.68 12.67 304.57

+25 7.6 302.1

+40 9.1 300.6

+50 9.1 300.6

Water  
Running  
in bottom  
of gully

+56<sup>70</sup> PL 9.0 300.7

+63<sup>70</sup> 7' off PL 8.3 301.4

<sup>60</sup> 7+86.7 { 4' of Water 7.8 301.9  
10' 50" E Dwight

Set TBM. 4.50 305.18

NEIL IN TELEPHONE # R 4725

P 12.68 322.36 0.00 309.68

H 12.53 332.50 0.39 321.97

CK BM 1.70 332.80 = 332.81

BR. NW Cor DWIGHT & Euclid.







ALLEY BLK 1  
(Cont'd)  
E PROFILE  
Proposed WATER

10-21-52

32

BM 0.00 335.89 335.89

RP. NW Cor Myrtle & Charmaine

0+00 6.2 329.7

+16 6.7 328.2

+40 5.9 329.99

+64 6.0 329.9

+80 4.8 331.1

1+00 4.5 331.4

+50 4.8 331.1

2+00 6.4 329.5

+45 8.4 327.5

+50 11.6 324.3 324.3

IP 1.41 324.42 12.88 323.01

+65 2.6 321.8

+85 4.6 319.8

3+00 7.4 317.0

IP 0.07 311.34 13.15 311.27

+25 1.4 309.9

00 36  
5 5

+40 6.6 309.7

+60 9.5 301.8

77 40  
5 5



ALLEY - BLK 1  
(Cont'd)

10-24-52

33

311.34

|      |       |        |        |           |           |
|------|-------|--------|--------|-----------|-----------|
| 3+90 |       | 8.8    | 302.5  | 6.5<br>5  | 11.2<br>5 |
| 4+00 |       | 8.1    | 303.2  |           |           |
| +30  |       | 9.8    | 301.5  |           |           |
| P    | 4.13  | 308.25 | 7.22   | 304.12    |           |
| +62  |       | 8.8    | 299.5  |           |           |
| +75  |       | 7.8    | 300.1  |           |           |
| +90  |       | 0.8    | 307.45 | 2.9<br>5  | +1.4<br>5 |
| P    | 12.28 | 319.65 | 0.88   | 307.37    |           |
| 5+00 |       | 8.8    | 310.9  | 10.1<br>5 | 6.1<br>5  |
| +25  |       | 3.8    | 315.9  |           |           |
| P    | 10.38 | 328.60 | 1.43   | 318.22    |           |
| +42  |       | 9.3    | 319.3  |           |           |
| +50  |       | 10.3   | 318.3  | 7.6<br>5  | 12.2<br>5 |
| +65  |       | 8.1    | 320.5  |           |           |
| +75  |       | 7.1    | 321.5  |           |           |
| +80  |       | 6.1    | 322.5  |           |           |
| +85  |       | 2.2    | 326.4  |           |           |
| 6+00 |       | 1.8    | 326.8  |           |           |
| +30  |       | 1.0    | 327.6  |           |           |

Edge of lawn

on lawn



ALLEY BLK 1  
(Cont'd)

10-24-52

3A

328.60

6+50 1.2 327.4

+78 G.V. 1.9 326.7

+79 Edge 4" AC Pavt. 2.2 326.4

+853 2.3 326.3

7' off 5a prop line Dwight St.

HP 3.46 329.89 2.17 326.43

CK BM 12.48 336.50 5.87 324.02 = 324.00 B.P. NW Cor DWIGHT & CHAMOUNE

CK BM 0.59 335.91 = 335.89 B.P. NW Cor MYRTLE & CHAMOUNE

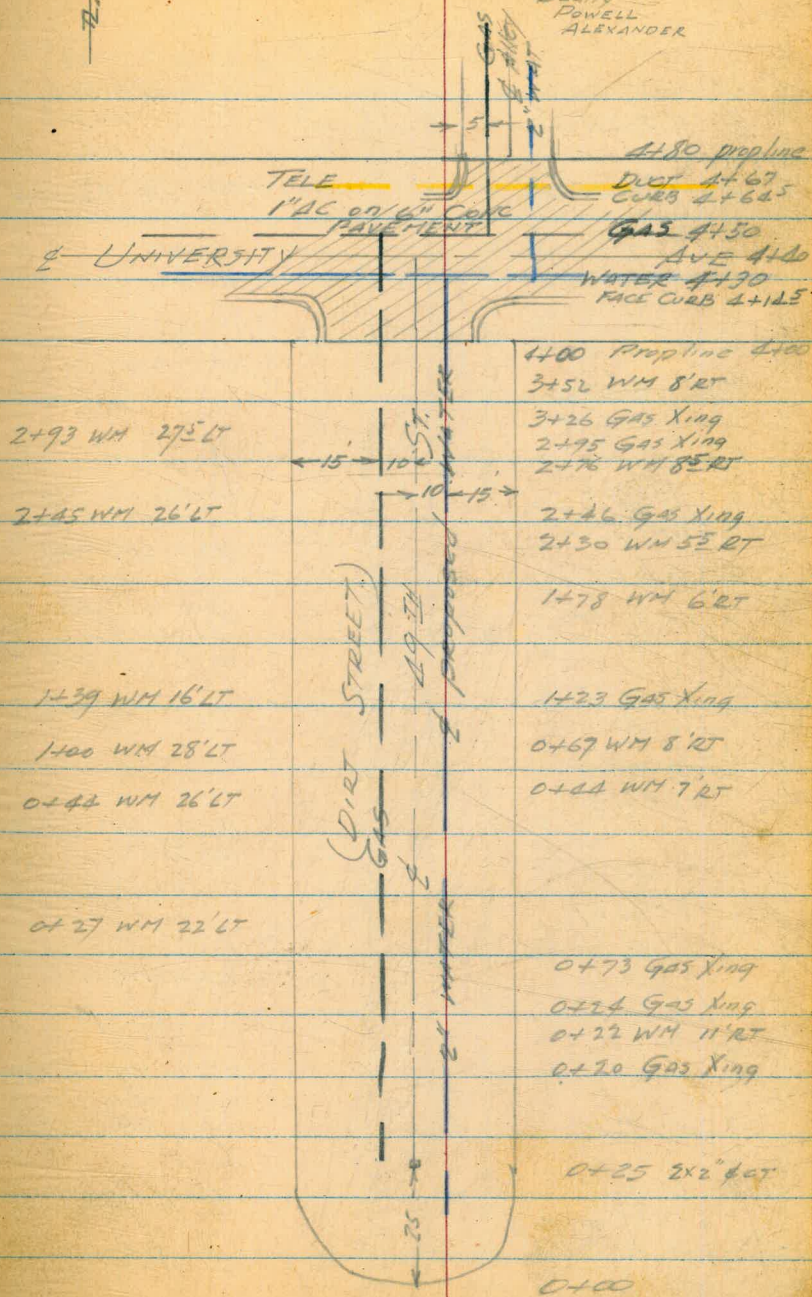


49th St - University to So Terminus  
 & ALLEY - BLK 24 & 29  
 Nor of UNIVERSITY, EAST of 49th

OCT. 27, 1952

BEATTY  
 POWELL  
 ALEXANDER

45





29TH ST  
 & ALLEY BLK 24 & 29

Cont'd.

8" H.P. GAS 17+56

WATER 17+46'

17+36'

17+30 SEW MH. 6' LT

ORANGE

WATER 17+46' 54" TROJON

LT 7' off

17+03'

16+96' prop line

12" SEW

16+39 WM 11' LT

16+29 WM 15' LT

15+77 WM 12' LT

15+28 WM 13' LT

14+73 WM 13' LT

14+14 WM 13' LT

13+76 WM 13' LT

12+19 WM 4' RT

14+00 GAS Xing

13+67 WM 4' RT

13+29 WM 4' RT

13+61 GAS Xing

19+25 WM 13' LT

13+27 GAS Xing

12+63 WM 14' LT

12+60 WM 3' RT

12+53 GAS Xing

12+31 WM 13' LT

12+26 WM 3' RT

12+18 WM 12' LT

12+08 GAS Xing

11+66 WM 12' LT

11+52 GAS Xing

11+66 WM 3' RT

11+25 WM 12' LT

Prop line

& POLK

10-27-52

3E

11+08 GAS MH 9' LT

10+99 SEW MH 3' LT

prop line 11+19

Face curb 11+12'

GAS 11+08

4" AC PAUT POLK 10+99

WATER 11+08

Face curb 10+85'

prop line 10+79

10+53 GAS Xing

9+97 WM 3' RT

9+95 GAS Xing

9+69 WM 3' RT

10+41 WM 12' LT

9+94 WM 12' LT

9+54 WM 12' LT

9+44 WM 14' LT

9+05 WM 14' LT

8+77 WM 13' LT

9+05 GAS Xing

9+01 WM 3' RT

8+35 GAS Xing

8+20 WM 3' RT

8+11 GAS Xing

8+01 SEW MH 3' LT

7+99 WM 12' LT

7+38 WM 12' LT

6+56 WM 15' LT

6+28 WM 16' LT

5+02 WM 16' LT

7+75 GAS Xing

4+80 GV. on E

Prop line 4+80

4+67 TELE DUCT

& UNIVERSITY AVE



Profile  
 1 MI - 495 ft. to So. Terminus

King  
 Williams  
 Jacobs  
 Kemp  
 10-27-52

37

|      |       |        |      |         |
|------|-------|--------|------|---------|
| BM   | 12.02 | 324.38 |      | 312.36  |
| T.P. | 0.85  | 325.21 | 0.02 | 324.38  |
| 0+00 |       |        | 14.9 | 310.3   |
| +50  |       |        | 11.5 | 313.7   |
| 1+00 |       |        | 7.3  | 317.9   |
| 1+50 |       |        | 4.6  | 320.6   |
| 2+00 |       |        | 1.8  | 323.4   |
| 2+50 |       |        | 1.1  | 324.1   |
| 3+00 |       |        | 2.5  | 322.7   |
| 3+50 |       |        | 4.2  | 321.0   |
| 4+00 |       |        | 5.4  | Edge of |
| 4+25 |       |        | 5.4  | gutter  |
| 4+40 |       |        | 4.8  | 4 1/2'  |
| 4+40 |       |        | 4.2  | 4 1/4'  |
| T.P. | 12.32 | 333.47 | 4.06 | 321.15  |
| 4+65 |       |        | 13.6 | gutter  |
| 4+80 |       |        | 13.2 | conc.   |
| 5+00 |       |        | 12.7 |         |

F  
 N.W.P. Univ #49<sup>th</sup>

sta.  
 1+00 : 319.8  
 on Dwg.

319.8

320.4

321.0

319.9

320.3

320.8



ALLEY BLK 24  
(Cont'd)

333.47

|       |       |        |      |        |
|-------|-------|--------|------|--------|
| 5+50  |       |        | 12.1 |        |
| 6+00  |       |        | 9.6  |        |
| 6+50  |       |        | 5.8  |        |
| 7+00  |       |        | 2.0  |        |
| T.P.  | 12.84 | 344.94 | 1.37 | 332.10 |
| 7+50  |       |        | 10.1 |        |
| 8+00  |       |        | 8.3  |        |
| 8+02  |       |        | 8.00 |        |
|       | 17.1  |        | 15.5 |        |
| 8+50  |       |        | 6.3  |        |
| 9+00  |       |        | 4.5  |        |
| 9+50  |       |        | 3.3  |        |
| 10+00 |       |        | 2.5  |        |
| 10+50 |       |        | 1.8  |        |
| 10+79 |       |        | 2.2  |        |
| 11+00 |       |        | 1.9  |        |
| 11+00 |       |        | 1.90 |        |
| 11+19 |       |        | 1.7  |        |
| T.P.  | 11.21 | 355.58 | 0.57 | 344.37 |

10-27-52

38

Sta. 1+50  
on  
Drwg.

321.41

323.91

327.7

331.5

334.8

336.6

336.9

338.6

340.4

341.6

342.4

343.1

So. Edge Polk. 342.7

343.0

Inv. Rod 7.4 Flow from E & W To S.

No. S. side polk st. 343.2

Sewer  
Top M.H.

0.1

Polk

Sewer  
Top M.H.

0.1



King 10-27-52

39

355.58

|       |       |        |       |        |        |  |
|-------|-------|--------|-------|--------|--------|--|
| 11750 |       |        | 10.3  |        | 345.3  | Sta.<br>7+50<br>on<br>Drwg                       |
| 12700 |       |        | 8.8   |        | 346.8  |  |
| 12+50 |       |        | 7.9   |        | 347.7  |  |
| 13700 |       |        | 6.6   |        | 348.98 | 7+00   |
| 13+50 |       |        | 5.1   |        | 349.98 |  |
| 14700 |       |        | 4.5   |        | 351.1  |  |
| 14+50 |       |        | 4.2   |        | 351.4  |  |
| 15700 |       |        | 5.2   |        | 350.9  |  |
| 15750 |       |        | 8.7   |        | 346.9  |  |
| T.P.  | 0.14  | 344.29 | 12.03 | 343.55 |        |  |
| 16+00 |       |        | 2.7   |        | 341.6  |  |
| 16+55 |       |        | 9.0   |        | 335.3  |  |
| T.P.  | 3.58  | 334.92 | 12.55 | 331.34 |        |  |
| 17+00 |       |        | 5.5   |        | 329.4  |  |
| 17+14 |       |        | 6.2   |        | 328.7  |  |
| 17+50 |       |        | 5.53  |        | 329.4  | top<br>sewer<br>at<br>Orange St. 1140 16.1 lower |
| T.P.  | 12.49 | 346.89 | 0.52  | 334.40 |        |  |
| T.P.  | 4.09  | 349.53 | 1.45  | 346.44 |        |  |
| B.M.  |       |        | 0.90  | 348.63 | 348.45 | S.E. Cor. Orange & Estrella B.P.                 |



New alignment 52<sup>nd</sup> St  
 Univ. to Polk Sec. Page 10-11  
 10° at @ 52<sup>nd</sup> St

|                     |      |         |        |
|---------------------|------|---------|--------|
|                     | 0.98 | 3.16.55 | 315.57 |
| 0+00                |      | 0.33    | 316.2  |
| +30                 |      | 0.40    | 316.1  |
| +60                 |      | 0.98    | 315.6  |
| 1+00                |      | 6.4     | 310.2  |
|                     | 9.62 | 313.51  | 303.89 |
| 1+50                |      | 10.2    | 303.3  |
| 2+00                |      | 13.1    | 300.4  |
| +50                 |      | 13.1    | 300.4  |
| 3+00                |      | 12.5    | 301.0  |
| +50                 |      | 11.6    | 301.9  |
| 4+00                |      | 10.0    | 303.5  |
| +50                 |      | 7.4     | 306.1  |
| 5+00                |      | 5.4     | 308.1  |
| +50                 |      | 3.4     | 310.1  |
| 6+00                |      | 2.2     | 311.3  |
| +50                 |      | 0.7     | 312.8  |
|                     | 8.33 | 321.42  | 313.09 |
| 7+00                |      | 7.1     | 314.3  |
| +50                 |      | 5.3     | 316.1  |
| 8+00                |      | 2.9     | 318.5  |
| +796                |      | 3.7     | 317.7  |
| 9+07                |      | 3.4     | 318.0  |
| 8+49 <sup>111</sup> |      | 2.2     | 319.2  |
|                     |      | 4.43    | 316.99 |

West  
 Williams  
 Marshall  
 Varonfakis

40

19 Dec 52

BN BP NW Cor University + 52<sup>nd</sup>

South Prop Line Univ  
 @ University  
 North Prop Line Univ

Revised for  
 New Alignment  
 profile notes used

New 3 Dr  
 Side road cut  
 Small road cut

316.93 Turn on Fence cor 30' at 4+50



52<sup>nd</sup> St  
(Cont'd.)

See Page #11

8+65 <sup>30</sup> Δ 22° 20' RT = 8+65 <sup>57</sup>

8+30 Δ 22° 30' LT

Polk St

41  
Old Alignment

8+30 22° 21' LT

Old Alignment

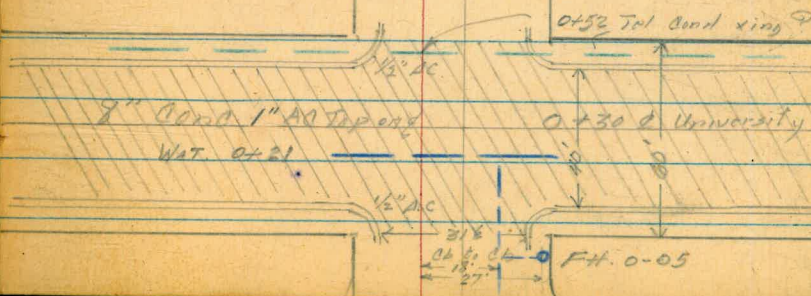
0+11<sup>1/2</sup> Place  
Was 5+155 6' AC?  
5+095 F.H. 31

Old Alignment 52<sup>nd</sup> St  
Old Alignment

See page #11 for  
Sewer Line

0+00

South Prop Line University





STERLING COURT  
E Profile of  
Proposed WATER

3/24/53

42

BERTH  
MARTEL  
KEMP

|         |       |                 |        |                 |
|---------|-------|-----------------|--------|-----------------|
| BM      | 1.59  | 328.09          | 326.50 |                 |
| 0+00    |       |                 | 8.3    | 319.8           |
| +20     |       |                 | 10.5   | 317.6           |
| +50     |       |                 | 12.4   | 315.7           |
| P       | 5.42  | 321.11          | 12.40  | 315.69          |
| 1+00    |       |                 | 8.2    | 312.9           |
| +50     |       |                 | 9.9    | 311.2           |
| 2+00    |       |                 | 10.2   | 310.9           |
| 2+29    | {     | 50 Rim Sew M.H. | 10.08  | 311.03          |
|         |       | 100 " "         | +58    | 305.23          |
|         |       | 100 " "         | 15.88  |                 |
| +50     |       |                 | 9.0    | 312.1           |
| 3+00    |       |                 | 7.4    | 313.7           |
| +50     |       |                 | 5.1    | 316.0           |
| 4+00    |       |                 | 3.6    | 317.5           |
| +50     |       |                 | 3.7    | 317.4           |
| 5+00    |       |                 | 4.4    | 316.7           |
| +50     |       |                 | 6.4    | 314.7           |
| 5+59.37 |       |                 | 6.4    | 314.7           |
| 4+95    | {     | 5 Rim Sew M.H.  | 1.28   | 316.83          |
|         |       | 100 " "         | 10.0   | 306.83          |
| P       | 11.57 | 327.55          | 5.86   | 315.88          |
|         |       |                 |        | 322.29 = 326.50 |

1/2" ID 175'50 0100 99.14











MOHAWK ST & BOWMAN LANE  
67<sup>TH</sup> ST. WLY & TO TERMINUS

MAY 26, 1953

BEATTY  
MARTIN  
ALEXANDER

45

1+7178

END LINE

0+00

2+81<sup>93</sup>

= MOHAWK

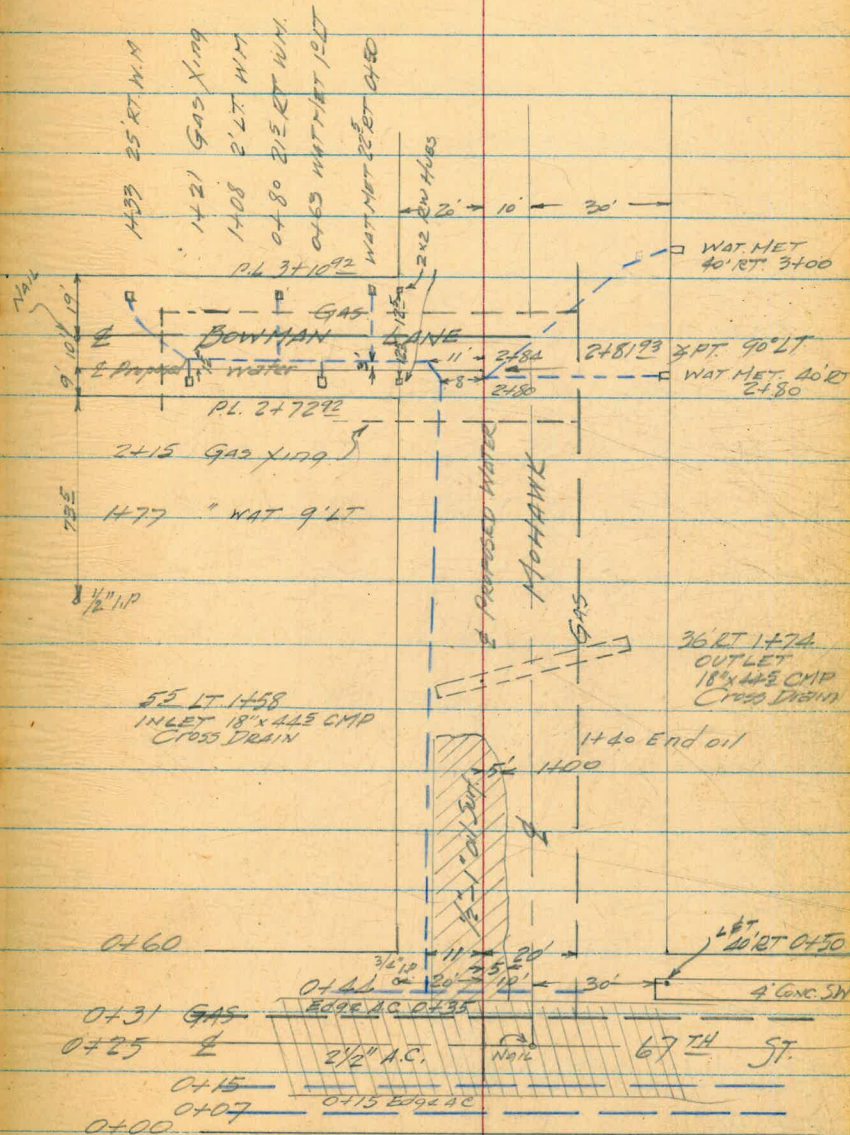
90° LT

0+60 Wly Prop. Line 67<sup>th</sup> (10' opening)

0+50 40' LT To. LET, 20' RT 3/4" UP

0+25 E 67<sup>th</sup>

0+00 = Fly Prop. Line 67<sup>th</sup>





MOHAWK & BOWMAN LANE  
(Cont'd.)

5/26/53

26

|                      |                          |        |       |                             |
|----------------------|--------------------------|--------|-------|-----------------------------|
| BM                   | 2.81                     | 456.60 |       | 453.79                      |
| CKTBM                |                          |        | 7.29  | 449.31 = 449.40<br>(MARKED) |
| P                    | 1.38                     | 450.83 | 7.15  | 449.45                      |
| 0+00                 | Ely Pipeline Mohawk      | 1.0    |       | 449.8                       |
| +07                  |                          |        | 1.2   | 449.4                       |
| +08                  |                          |        | 2.4   | 448.4                       |
| +15                  | Edge A.C. (2 1/2")       | 1.8    |       | 449.0                       |
| +25                  | & 67th                   | 1.35   |       | 449.5                       |
| +35                  | Edge A.C. Sldr. (2 1/2") | 1.6    |       | 449.2                       |
| +50                  |                          | 2.0    |       | 448.8                       |
| 1+00                 |                          | 3.9    |       | 446.9                       |
| +50                  |                          | 5.3    |       | 445.5                       |
| Cross Cuv. 18" x 44" | { inlet # 7.0            |        | 443.8 |                             |
|                      | { outlet # 8.2           |        | 442.6 |                             |
| 2+00                 |                          | 5.4    |       | 445.4                       |
| +50                  |                          | 4.9    |       | 445.9                       |
| +8193 = MOHAWK       |                          | 4.9    |       | 445.9                       |
| 0+00 = BOWMAN        |                          |        |       |                             |
| 3+00                 |                          | 5.0    |       | 445.8                       |
| 3+50                 |                          | 7.2    |       | 443.6                       |
| 0+00 = BOWMAN LANE   |                          | 1.9    |       | 445.9                       |
| 2+8193. MOHAWK       |                          |        |       |                             |
| 0+50                 |                          | 4.0    |       | 446.8                       |

SW Cor. DP. 67th & EL CAJON

Nail in Pa. Rd. SW Cor 67th & Mohawk

& NAIL MOHAWK & 67th

oil 40 5° RT, 10' LT

1 1/2"  
7/8"  
1"

oil 40 5° LT 10' LT

oil  
End AC 1+40



MOHAWK & BOWMAN LANE  
(Cont'd)

5/26/53

47

450.83

1+00 3.6 447.2

1+50 2.9 447.9

1+71.78 End of LINE 1.8 449.0

4 7.73 456.87 1.69 449.14

OK BM. 3.07 453.80 - 453.79 SW CP 67<sup>th</sup> & EL CAJON

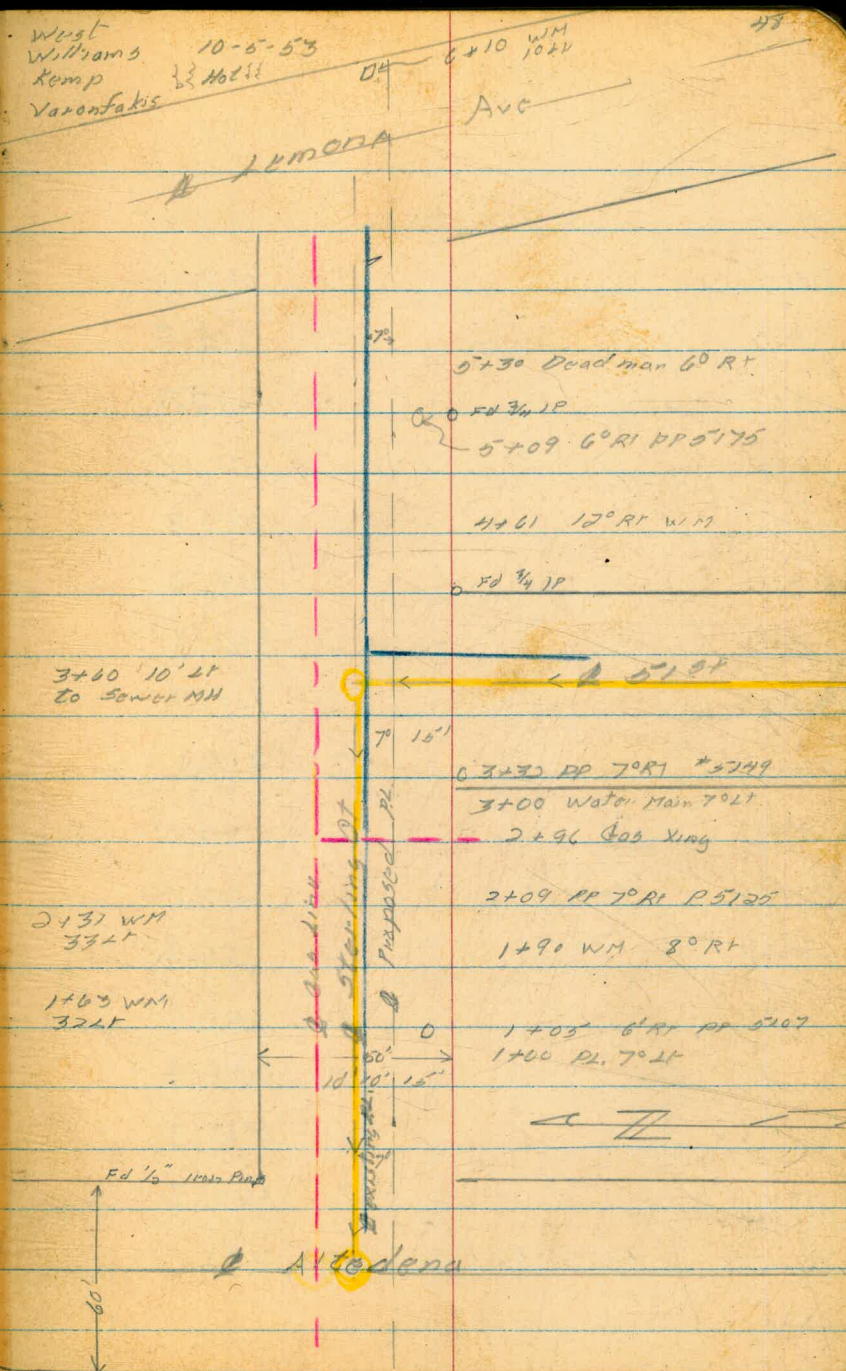


Starling Ct  
Altadena to Lemona Ave

West Williams 10-5-53  
Kemp  
Varonfakis

LEMONA Ave

0+60 <sup>NE</sup> East Prop Line Altadena  
0+39 <sup>SW</sup> Starling Ct = 3+77 <sup>SW</sup> Altadena





Profile Starting at  
Altadena

49

See Page 14

TBM Top FH SE Cor Landis + Altadena

|                  |       |        |       |         |
|------------------|-------|--------|-------|---------|
|                  | 2.23  | 323.38 |       | 321.15  |
| 0+00             |       |        | 8.3   | 315.1   |
| +50              |       |        | 7.6   | 315.8   |
| +60              |       |        | 7.5   | 315.9   |
| 1+00             | 259   | 319.29 | 6.69  | 316.69  |
| +50              |       |        | 2.1   | 317.2   |
| 2+00             |       |        | 3.1   | 316.2   |
| +50              |       |        | 5.5   | 313.8   |
| 3+00             |       |        | 7.5   | 311.8   |
| +50              |       |        | 8.9   | 310.4   |
| +60              |       |        | 9.58  | +2.2 To |
| 4+00             | 348   | 310.51 | 12.25 | 307.03  |
| +50              |       |        | 5.6   | 304.9   |
| 5+00             |       |        | 7.0   | 303.5   |
| +50              |       |        | 7.1   | 303.4   |
| 6+00             |       |        | 6.2   | 304.3   |
| +16 <sup>+</sup> |       |        | 4.8   | 305.7   |
|                  | 12.79 | 321.36 | 1.95  | 308.56  |

(This for TBM) 10' ±  
E. from Sewer MH

This on Plans 321' to Starting at  
Turn on 3/4" ID pipe 200' SE Cor



51st St @ Profile  
Sterling Ct to South Term

30

321.35

0+00 10.7 310.7

+40 12.2 309.2

+50 11.3 310.1

1+00 6.7 314.7

+50 2.0 319.4

6.54 326.75 1.17 320.18

2+00 2.3 324.4

+50 3.4 323.3

3+00 7.9 318.8

+50 5.84 319.87 12.74 313.98

4+00 12.8 307.0

+10<sup>35</sup> 15.8 304.0

1108 330.76 0.14 319.68

4.27 326.49 =

326.50

Sub 2inc  
1/2 IP Alameda East Side

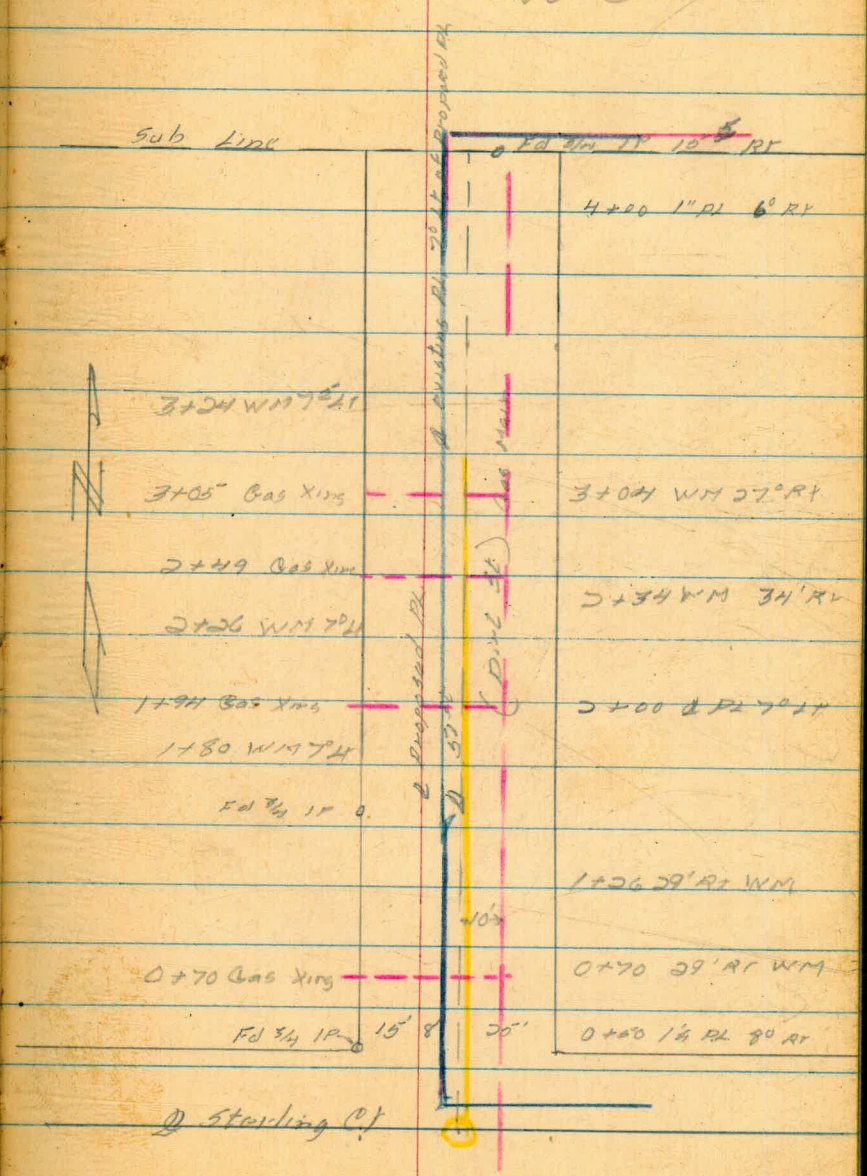


5<sup>th</sup> St Sterling Ct 5<sup>th</sup>  
to 5<sup>th</sup> Term

4+10 35' Sub Line

Sub Line

0+35 51<sup>st</sup> 3+70 Sterling Ct  
0+00 N Prop Line Sterling Ct



3+04 WM 75' RT

3+05 Gas Xing

2+49 Gas Xing

2+26 WM 72'

1+91 Gas Xing

1+80 WM 74'

Ed 3/4 1' 0"

0+70 Gas Xing

Ed 3/4 1R 15' 8"

51st Sterling Ct

Ed 3/4 1R 15' 8"

4+00 1" RL 6' RT

3+04 WM 57' RT

1+46 WM 34' RT

1+00 1" RL 7' RT

1+26 39' RT WM

0+70 39' RT WM

0+00 1/2 RL 8' RT



STERLING COURT  
 ALTADENA TO 50<sup>TH</sup> ST  
 & 50<sup>TH</sup> ST. NORTHERLY 135'  
 (5) STKS & GRDS FOR 6" A.C. WATER

Nov. 2, 1953

BETTY  
 GIBBS  
 MARTELL  
 ALEXANDER

52

|                   |                         |            |              |                                   |
|-------------------|-------------------------|------------|--------------|-----------------------------------|
| BM                | 0.54                    | 327.04     | 326.50       | 500 pp. 14 & 42; 1/2" I.P.        |
| 0+00              | Fly prop. line Altadena |            |              |                                   |
| 0+25              | 6" G.V.                 | Begin Work | 9.5 317.5    | <del>310.9</del><br>310.1 674 C68 |
| 0+50              |                         |            | 11.4 315.6   | 309.6 C60                         |
| 1+00              | 8.26                    | 322.05     | 13.25 313.79 | 8.6 313.5 308.6 C49               |
| 1+50              |                         |            | 10.5 311.6   | 307.6 C40                         |
| 2+00              |                         |            | 10.9 311.2   | 307.2 C40                         |
| 2+50              |                         |            | 9.6 312.5    | 308.4 C41                         |
| 3+00              |                         |            | 7.6 314.5    | 309.9 C46                         |
| 3+50              |                         |            | 6.0 316.1    | 311.5 C40                         |
| 4+00              |                         |            | 4.7 317.4    | 313.0 C44                         |
| 4+50              |                         |            | 4.8 317.3    | 313.6 C37                         |
| 4+75              |                         |            | 5.2 316.9    | 313.2 C37                         |
| 4+84 <sup>4</sup> | 6" TEE                  |            | 5.3 316.8    | 312.7 C41                         |
| 5+00              |                         |            | 5.7 316.4    | 312.0 C44                         |
| 5+50              |                         |            | 7.7 314.4    | 309.5 C49                         |
| 5+60              | 2" B.O.                 | End Work   | 7.6 314.5    | 309.0 C55                         |



STERLING COURT & 50<sup>TH</sup> ST  
(Cont'd.)

11/2/53

53

322.05

|      |                     |            |     |       |       |                 |
|------|---------------------|------------|-----|-------|-------|-----------------|
| 0+00 | = 2+84 <sup>2</sup> | Begin Work |     |       | 312.7 |                 |
| 0+05 | 6" GV.              |            | 4.9 | 317.2 | 312.9 | CA <sub>2</sub> |
| 0+15 | = FH TEE            |            | 4.7 | 317.4 | 313.4 | CA <sub>2</sub> |
|      | ⊙ FH.               |            | 4.4 | 317.7 | 317.6 |                 |
| 0+50 |                     |            | 4.6 | 317.5 | 312.6 | C <sub>39</sub> |
| 1+00 |                     |            | 3.7 | 318.4 | 314.5 | C <sub>39</sub> |
| 1+35 | 2" BO               | End Work   | 2.9 | 319.2 | 315.2 | CA <sub>2</sub> |

COL CA<sub>2</sub>

WAT. METS.

|         |    |        |      |       |       |                 |
|---------|----|--------|------|-------|-------|-----------------|
| 0+68 S. | Ni | 327.04 | 11.1 | 315.9 | 313.9 | C <sub>21</sub> |
| 1+35 S. | "  | 322.05 | 9.3  | 312.8 | 312.2 | C <sub>06</sub> |
| 2+50 N. | "  | "      | 11.8 | 310.3 | 312.4 | F <sub>21</sub> |
| 2+58 S. |    |        | 7.9  | 312.2 | 313.1 | C <sub>11</sub> |
| 2+89 N. |    |        | 9.5  | 312.6 | 313.7 | F <sub>11</sub> |
| 3+34 S. |    |        | 5.7  | 316.4 | 315.2 | C <sub>12</sub> |
| 3+57 N. |    |        | 6.1  | 316.0 | 315.8 | C <sub>03</sub> |
| 3+82 S. |    |        | 4.8  | 317.3 | 316.4 | C <sub>09</sub> |
| 4+34 S. |    |        | 4.8  | 317.3 | 317.4 | F <sub>01</sub> |
| 4+41 N. |    |        | 3.9  | 318.2 | 317.8 | C <sub>04</sub> |
| 4+84 S. |    |        | 5.5  | 316.6 | 316.4 | C <sub>02</sub> |
| 5+10 S. |    |        | 6.5  | 315.6 | 315.4 | C <sub>02</sub> |
| 5+60 W. |    |        | 7.5  | 314.6 | 312.5 | C <sub>21</sub> |

50<sup>TH</sup> ST WAT. METS.

|         |  |  |     |       |       |                 |
|---------|--|--|-----|-------|-------|-----------------|
| 0+77 W. |  |  | 4.7 | 317.4 | 317.4 | C <sub>02</sub> |
| 1+14 E. |  |  | 3.2 | 318.9 | 318.8 | C <sub>01</sub> |
| 1+35 E. |  |  | 2.8 | 319.1 | 319.0 | C <sub>01</sub> |

SET TO Orig. Ground line

CK TP

5.20 316.85 = 316.83

(J. R. Sawyer M.H., pg. 42)

Profile 4409  
36" Curb to Curb, Future SW?  
STRIP 225 RT & LT & ST  
.02 Higher Curb

5083 Sterling Ct  
5075 " "  
5036 " "  
5059 " "  
5028 " "  
5045 " "  
5022 " "  
5035 " "  
5025 Sterling Ct  
3605 ? 50<sup>TH</sup> ST {New House  
No Number  
5015 Sterling Court.  
5005 " "  
4999 " "  
3612 50<sup>TH</sup> ST.  
3617 "  
3623 "



ALLEY BLK. 9. CITY HEIGHTS  
 E. of HIGHLAND; So of WIGHTMAN  
 © STKS & GRDS FOR WATER METERS

Nov. 2, 1953

BEATTY  
 SHREVE  
 MARTELL

54

B.M. 7.13 350.23 343.10 OP. NW COR. 45<sup>TH</sup> & LANDIS

P 3.80 353.06 0.97 349.26

0400 = 5/4 Prop. Line WIGHTMAN

|          |      |        |          |         |
|----------|------|--------|----------|---------|
| 0+28 E.  | 3.0  | 350.1  | 349.2    | C09     |
| 0+29 E.  | 3.0  | 350.1  | 349.2    | C09     |
| 0+37 W.  | 3.0  | 350.0  | 349.4    | C06     |
| 0+71 W.  | 3.1  | 350.0  | 349.6    | C04     |
| 0+82 E   | 3.4  | 349.7  | 349.5    | C02     |
| 1+22 W   | 3.6  | 349.5  | 349.6    | F01     |
| 1+26 E   | 3.7  | 349.4  | 349.4    | C00     |
| 1+65 W   | 3.1  | 350.0  | 349.4    | C06     |
| 1+87 E   | 4.0  | 349.1  | 349.3    | F02     |
| 2+22 W   | 3.9  | 349.2  | 349.2    | C00     |
| 2+28 W   | 3.8  | 349.3  | 349.2    | C01     |
| 2+45 E   | 4.2  | 348.9  | 349.1    | F02     |
| 2+54 E.  | 4.5  | 348.6  | 349.1    | F05     |
| 2+74 W.  | 4.2  | 348.9  | 349.1    | F02     |
| 2+78 W.  | 4.4  | 348.7  | 349.0    | F02     |
| 3+12 W.  | 4.3  | 348.8  | 348.9    | F01     |
| 3+19 E.  | 4.7  | 348.4  | 348.9    | F05     |
| 3+53 E   | 4.5  | 348.6  | 348.8    | F02     |
| 3+71 W.  | 4.4  | 348.7  | 348.8    | F01     |
| 4+05 W   | 4.0  | 349.1  | 348.8    | F02 C03 |
| 4+34 E   | 4.6  | 348.5  | 348.6    | F01     |
| 4+61 E   | 4.5  | 348.6  | 348.6    | C02     |
| 5+12 W   | 3.3  | 349.8  | 348.7    | C11     |
| 5+12 E   | 3.8  | 349.3  | 348.5    | C08     |
| 5+62 E   | 3.7  | 349.4  | 348.2    | C12     |
| 5+70 W   | 3.0  | 350.1  | 348.5    | C16     |
| 5+95 W   | 3.2  | 349.9  | 348.3    | C15     |
| 5+96 W   |      |        | 348.3    |         |
| 5+96 E   | 4.2  | 348.9  | 347.9    | C10     |
| CK. B.M. | 9.95 | 343.11 | = 343.10 |         |



ALTADENA AVE  
So. of STERLING COURT TO 50TH ST.  
⑤ STRS & GRDS FOR 6" A.C. WAT

11/2/53

Best,  
Sherry

55

|         |                       |        |        |         |        |         |     |
|---------|-----------------------|--------|--------|---------|--------|---------|-----|
| BM.     | 0.66                  | 327.16 | 326.50 | 1/2" LP | 20' RT | 0100.   |     |
| 0+00    | Begin Work            | 1.4    | 325.8  | 319.0   |        | C68     |     |
| 0+50    |                       | 5.4    | 321.8  | 316.1   |        | C57     |     |
| 1+00    |                       | 8.16   | 319.0  | 313.2   |        | C58     |     |
| 1+25    |                       |        |        |         |        |         |     |
| 1+70    | F.H. TEE              | 8.9    | 318.3  | 311.8   |        | C65     |     |
|         | ⑤ F.H.                | 7.15   | 320.0  | 315.3   |        | C47 C82 |     |
| 1+40    |                       |        |        |         |        |         |     |
| 1+45    | 6" TEE                | 9.36   | 317.8  | 310.9   |        | C69     |     |
| 1+50    |                       | 9.55   | 317.6  | 310.3   |        | C73     |     |
| 1+77'   | 4' RT                 | 10.26  | 316.9  | 309.9   |        | C70     |     |
| 2+00    |                       | 11.40  | 315.7  | 309.6   |        | C61     |     |
| ④ +50   |                       | 7.65   | 322.29 | 12.52   | 314.64 | 310.0   | C46 |
| 3+00    |                       | 7.5    | 314.8  | 310.5   |        | C43     |     |
| +50     |                       | 6.9    | 315.4  | 310.9   |        | C45     |     |
| +76     |                       |        |        |         |        |         |     |
| +82     | 6" TEE                | 6.4    | 315.9  | 311.3   |        | C46     |     |
| 4+00    |                       | 5.9    | 316.4  | 311.4   |        | C50     |     |
| +50     |                       | 5.3    | 317.0  | 311.8   |        | C52     |     |
| 5+00    |                       | 4.7    | 317.6  | 312.2   |        | C54     |     |
| +24     | B.C.                  | 4.4    | 317.9  | 312.4   |        | C55     |     |
| +50     |                       | 4.10   | 318.2  | 312.6   |        | C56     |     |
| +75     |                       | 3.8    | 318.5  | 312.8   |        | C57     |     |
| 6+00    |                       | 3.5    | 318.8  | 313.0   |        | C58     |     |
| ④       | 4.52                  | 327.59 | 3.22   | 319.07  | =      | 319.06  |     |
| ERIM:MH | (Continued on pg 57.) |        |        |         |        |         |     |

317.93  
2.36



COTTONWOOD STREET  
 EARL ST. TO 40TH ST  
 ⑤ STKS & GRDS FOR 6" A.C. WATER

Nov. 5 1953 Cool & Windy

BEATTY  
 SHOREY  
 MARTELL  
 ALEXANDER

56

TRM 4.61 19.91 15.30

CITY ENGR TAG. 7' off DC Ret. NE Cor Cottonwood & 40th  
 FB. 819 pg. 32

0+00 - Wly Prop Line EARL

0+45 6" GV Begin Work 8.4 11.5 07.8 C37

0+75 8.2 11.7 06.4 C53

1+25 7.4 12.5 08.0 C85

1+75 5.9 14.0 04.3 C92

1+93<sup>25</sup> x PT Δ = 32° 07' LT. 5.8 14.1 04.8 C93

2+00 5.8 14.1 05.0 C91

2+50 5.9 14.0 06.3 C72

3+00 5.0 14.9 07.7 C72

3+50 5.0 14.9 09.1 C52

4+00 5.6 14.3 10.4 C39

4+16.2 6" GV End Work. 5.5 14.4 10.9 C35  
 WAT. METS

0+97.5 7.2 12.7 13.0 F03 3963

1+75.5 5.4 14.5 13.3 C12 3971

1+88.5 5.2 14.7 13.4 C12 3975

2+09.5 4.6 15.3 12.4 C12 3977

2+55.5 4.7 15.2 13.8 C14 3987

3+80.5 4.9 15.0 15.4 F04 3997 ?

OK BM 4.61 15.30



ALTADENA AVE &  
WIGHTMAN ST.  
(CONT.D) from pg. 55

11/5/53

57

|        |        |      |        |                |                           |   |
|--------|--------|------|--------|----------------|---------------------------|---|
| CKBM   | 323.59 | 3.87 | 319.72 | = 319.77       | NAIL IN POLE #3688        | CE. FB 2105 pg. 23                            |
| 6+25   |        | 4.7  | 318.9  | 313.3          | 056                       | 48  |
| +50    |        | 4.6  | 319.0  | 313.5          | 055                       | 47  |
| +75    |        | 4.9  | 318.7  | 313.8          | 049                       | 50  |
| +91    |        |      |        |                |                           |   |
| +87    | WATER  | 5.0  | 318.6  | 313.9          | 027                       | 51  |
| 7+00   |        | 4.9  | 318.7  | 314.0          | 042                       | 49  |
| +25    |        | 5.0  | 318.6  | 313.8          | 038                       | 50  |
| +50    |        | 5.46 | 318.1  | 313.6          | 045                       | 54  |
| +75    |        | 6.5  | 317.1  | 312.6          | 045                       | 6.5   |
| 8+00   |        | 8.0  | 315.6  | 311.6          | 040                       | 7.9   |
| +25    |        | 9.8  | 313.8  | 309.8<br>310.2 | 040                       | 11-9-53<br>Resty                              |
| +41.66 | PRC.   | 10.8 | 312.8  | 308.5<br>309.3 | 042                       | GRADE CHANGE<br>DUE TO INCORRECT<br>EST. GRD. |
| P 0.00 | 313.76 | 9.83 | 313.76 | 308.0<br>308.8 | Nail in stub pole at PRC. | 1.7   |
| +50    |        | 2.0  | 311.8  | 306.2<br>307.5 | 038                       |   |
| +75    |        | 2.1  | 311.7  | 304.4<br>306.1 | 055                       |   |
| 9+00   |        | 3.1  | 310.7  | 302.0<br>304.8 | 062                       |   |
| +25    |        | 4.2  | 307.6  | 300.8<br>302.6 | 070                       |   |
| +50    |        | 6.5  | 307.3  | 298.9<br>300.1 | 065                       |   |
| +75    |        | 7.7  | 305.9  | 297.0<br>298.2 | 070                       |   |
| 10+00  |        | 11.3 | 302.5  |                | 055                       |   |



ALTADENA & WIGHTMAN

(Cont'd.)

11/6/53  
11/20/53

58

TR

313.76 12.21300.8.5  
0.66 301.51

10+25 1.6 299.9 295.1  
296.0 C48

+50 3.5 298.0 293.2  
293.8 C48

10+62<sup>10</sup> P.C.C. 4.8 296.7 292.3  
292.7 C44

10+75 6.1 295.4 291.3  
291.6 C41

11+00 7.9 292.6 289.4 C42

+25 10.3 291.2 287.7 C35

+50 11.5 290.0 286.0 C40

④ +6987<sup>2.08</sup> F.C. 290.48 5 E 12.7 288.8  
5 W 13.11 288.40 285.0 C38  
C34

12+00 ⑩ 3.0 287.5 283.4 C41  
⑨ 3.8 286.7 C33

+04 F.H. TEE ⑩ 3.2 287.3 C41  
⑨ 3.5 287.0 C38

⑤ F.H. 3.0 287.5 286.6 C12, C42 to Bottom.

+40 6" TEE ⑩ 3.5 287.0 281.2 C58  
⑨ 1.7 285.8 C76

2.7  
2.6

+50 ⑩ 2.8 287.7 280.7 C70  
⑨ 1.0 289.5 C88

13+00 ⑩ 2.8 287.7 278.1 C96  
⑨ 0.7 289.8 112

+50 ⑩ 7.4 281.1 275.4 C57  
⑨ 7.4 283.1 C77

14+00 ⑩ 12.7 277.8 272.8 C50  
⑨ 12.3 278.2 C52

+03<sup>10</sup> F.C. ⑩ 12.9 277.6 272.6 C40  
⑨ 12.9 277.6 C42

④ +25 2.36 279.61 13.23 277.25 271.5 C43  
3.9 275.8

+50 4.9 274.7 270.2 C45

15+00 6.0 273.2 266.0 C72

+25 7.1 272.5 264.2 C80

+50 7.0 272.0 262.4 C96

+75 11.4 268.2 262.4 C58



ALTADENA & WIGHTMAN  
(Cont'd)

11/5/53

59

|              |           |                  |      |                 |                |                    |
|--------------|-----------|------------------|------|-----------------|----------------|--------------------|
| CK TP        | 11.29     | 279.61<br>283.78 | 7.12 | 272.09 = 272.26 | Rim Saw. Mt.   |                    |
| 16+00        |           |                  | 10.4 | 273.4           | 262.0<br>262.4 | C90                |
| 16+24.15 BR. |           |                  |      |                 |                | 282.0<br>17.1      |
| 16+25 AH.    |           |                  | 10.4 | 273.4           | 265.1<br>264.9 | C93                |
| 1 +50        |           |                  | 8.3  | 275.5           | 268.4<br>267.4 | C69 ✓              |
| +75          |           |                  | 6.6  | 277.2           | 272.1          | C51                |
| 10 +80 EC    |           |                  | 6.2  | 277.6           | 272.5<br>270.1 | C55                |
|              |           |                  |      |                 |                | 525                |
| 17+00        |           |                  | 4.9  | 278.9           | 274.1<br>272.4 | C48                |
| +25          |           |                  | 2.5  | 281.3           | 275.6          | C52 ✓              |
| +50          |           |                  | 0.7  | 283.1           | 276.0<br>277.4 | C7L ✓              |
| +52          | FH TEE    |                  | 0.5  | 283.3           | 276.2          | C7 ✓               |
|              | DFH       |                  | 2.2  | 281.6           | 277.6<br>282.2 | FOR C5             |
| 17+20        | END WORK  |                  | 0.0  | 283.8           | 276.4          | C74                |
| SET. TP      | 12.55     | 295.31           | 1.02 | 282.76          |                | Top of step.       |
| TP           | 13.28     | 308.55           | 0.04 | 295.27          |                |                    |
| TP           | 12.84     | 321.35           | 0.04 | 308.51          |                |                    |
| TP           | 11.26     | 332.33           | 0.28 | 321.07          |                |                    |
| CK DM        |           |                  | 2.16 | 330.17 = 330.15 |                | SW DP 50th & UNIV. |
| 0+19 E       | WAT. MET. | 327.16           | 2.3  | 324.9           | 322.2          | C27                |
| 0+73 E       |           |                  | 6.2  | 321.0           | 318.5<br>318.9 | C23 C25            |
| 1+61 E       |           |                  | 9.1  | 318.1           | 313.6<br>314.0 | C41 C45            |
| 1+83 W       |           |                  | 13.5 | 313.7           | 312.9<br>314.2 | FOR C08            |
| 2+68 E       |           | 322.29           | 7.2  | 315.1           | 314.2<br>314.0 | C07 C09            |
| 2+70 E       |           |                  | 7.3  | 315.0           | 314.2<br>314.5 | C05 C08            |
| 2+81 W       |           |                  | 8.97 | 313.3           | 313.8<br>314.0 | FOR F05            |
| 3+19 W       |           |                  | 8.4  | 313.9           | 314.2<br>314.4 | FOR F03            |
| 3+95 W       |           |                  | 7.3  | 315.0           | 314.2<br>315.0 | FOR C00            |
|              |           |                  |      |                 |                | 3605 Altadena      |
|              |           |                  |      |                 |                | 3611 "             |
|              |           |                  |      |                 |                | 3627 Altadena      |
|              |           |                  |      |                 |                | 3626 "             |
|              |           |                  |      |                 |                | 3641 "             |
|              |           |                  |      |                 |                | 3643 "             |
|              |           |                  |      |                 |                | 3637 "             |
|              |           |                  |      |                 |                | 3640 "             |
|              |           |                  |      |                 |                | 3646 "             |



ALTADENA  
WIGHTMAN  
(CONT'D)

1/9/53

60.

322.29

|           |           |      |       |                           |                    |      |          |
|-----------|-----------|------|-------|---------------------------|--------------------|------|----------|
| 4+45 W    |           | 6.4  | 315.9 | <del>315.6</del><br>315.8 | <del>C01</del> C03 | 3654 | Altadena |
| 4+60 E    |           | 4.4  | 317.9 | <del>316.4</del><br>315.5 | C04 C15            | 3657 | "        |
| 4+60 W    |           | 6.4  | 315.9 | <del>315.8</del><br>315.5 | <del>C04</del> C01 | 3662 | "        |
| 5+03 W    |           | 5.65 | 316.6 | <del>316.2</del><br>316.2 | <del>C02</del> C04 | 3670 | "        |
| 5+24 E    |           | 3.8  | 318.5 | <del>317.1</del><br>318.2 | <del>C05</del> C12 | 3663 | "        |
| 5+46 E    |           | 3.75 | 318.5 | 317.3                     | C12                | 3671 | "        |
| 5+64 W    |           |      | 317.5 | 317.0                     | C05                | 3678 | "        |
| 6+10 W    | N. 323.59 | 5.2  | 318.4 | 317.5                     | C02                | 3684 | "        |
| 7+125 W   |           | 4.0  | 319.6 | 318.6                     | C12                | 3704 | "        |
| 7+58 W    |           | 4.57 | 319.0 | 317.8                     | C12                | 3626 | "        |
| 8+05 W    |           | 6.70 | 316.9 | 315.8                     | C11                | 5073 | Wightman |
| 14+06 Sly | N. 290.48 | 13.2 | 277.3 | 276.3                     | C12                |      |          |
| 14+06 Nly | " "       | 13.5 | 277.0 | 276.8                     | C02                | 5000 | Wightman |
| 14+48 Nly | N. 279.61 | 4.0  | 275.6 | 274.9                     | C02                |      |          |
| 15+55 Sly | N. "      | 8.3  | 271.3 | 272.1                     | F08                | 5021 | "        |
| 16+22 Nly | " "       | 3.4  | 276.0 | 272.9                     | C31                | 5010 | "        |
| 16+86 Sly | N. 283.78 | 9.7  | 274.1 | 277.3                     | F32                | 501  |          |
| 17+62 Sly | " "       | 0.3  | 283.5 | 282.8                     | C02                | 5015 | Wightman |
| 15+95 Nly |           | 10.7 | 273.1 | 272.7                     | C04                |      |          |

{ No. 5111 Met }  
New House

61  
20



Alley BIK 67  
N of Landis  
E of 39th St

SIKs for  
6" A.C. Main  
+ Meters

West  
Williams  
Kemp  
Varonfakis

11-3-53

61

See FB 587 Page 77

TBM Top of V N prop line Wightman

5.06 346.27 341.21

5.10 339.78 11.59 334.68

0-10 9.5 330.3 326.0 C4 <sup>3</sup> FH Tee

0-10 9.5 330.3 330.0 C0 <sup>3</sup> (D) of FH

0+00 9.2 330.6 326.4 C4 <sup>2</sup>

+25 4.7 335.1 332.5 C2 <sup>6</sup>

WM E

+30 4.7 335.1 333.0 C2 <sup>1</sup>

WM W

+48 4.4 335.4 334.3 C1 <sup>1</sup>

WM W

+50 4.0 335.8 334.4 ← C1 <sup>4</sup>

W. M. W

+50 4.2 335.6 330.6 C5

+74 3.4 336.4 335.6 C0 <sup>8</sup>

WM E

+75 3.4 336.4 331.6 C4 <sup>8</sup>

+80 3.5 336.3 335.5 C0 <sup>8</sup>

WM W

+100 3.2 336.6 332.4 C4 <sup>2</sup>

8.69 345.59 2.88 336.90

+25 8.5 337.1 336.4 C0 <sup>7</sup>

WM W

+25 8.5 337.1 336.7 C0 <sup>4</sup>

WM E

+50 7.8 337.8 333.4 C4 <sup>4</sup>

+80 7.4 338.2 337.6 C0 <sup>6</sup>

WM W

+90 7.0 338.6 338.0 C0 <sup>6</sup>

WM E

+100 6.9 338.7 334.4 C4 <sup>3</sup>



ALLEY BLK. 67 CONT.

345.59

WEST  
WILLIAMS  
VARON FAKIS  
KEMP

11-3-53

65

|      |     |       |       |    |               |       |
|------|-----|-------|-------|----|---------------|-------|
| 2+24 | 6.3 | 339.3 | 338.5 | C0 | $\frac{8}{1}$ | WM W  |
| +25  | 6.0 | 339.6 | 338.9 | C0 | $\frac{7}{1}$ | WM E  |
| +50  | 5.9 | 339.7 | 335.2 | C4 | $\frac{5}{1}$ |       |
| +67  | 5.4 | 340.2 | 339.4 | C0 | $\frac{8}{1}$ | WM W  |
| +71  | 5.0 | 340.6 | 339.7 | C0 | $\frac{9}{1}$ | W.M.E |
| 3+00 | 4.1 | 341.5 | 335.2 | C6 | $\frac{3}{1}$ |       |
| +06  | 4.6 | 341.0 | 340.1 | C0 | $\frac{9}{1}$ | WM W  |
| +36  | 3.8 | 341.8 | 341.1 | C0 | $\frac{7}{1}$ | WME   |
| +50  | 3.4 | 342.2 | 337.4 | C4 | $\frac{8}{1}$ |       |
| +54  | 3.6 | 342.0 | 341.1 | C0 | $\frac{9}{1}$ | WM W  |
| +91  | 2.6 | 343.0 | 342.2 | C0 | $\frac{8}{1}$ | WME   |
| +93  | 2.9 | 342.7 | 341.8 | C0 | $\frac{9}{1}$ | WM W  |
| 4+00 | 2.4 | 343.2 | 338.4 | C4 | $\frac{8}{1}$ |       |
| +32  | 2.2 | 343.4 | 343.1 | C0 | $\frac{3}{1}$ | WM E  |
| +50  | 2.0 | 343.6 | 343.1 | C0 | $\frac{5}{1}$ | WM W  |
| 4+50 | 2.0 | 343.6 | 339.4 | C4 | $\frac{2}{1}$ |       |
| +65  | 1.7 | 343.9 | 343.8 | C0 | $\frac{1}{1}$ | WME   |
| +97  | 1.4 | 344.2 | 343.9 | C0 | $\frac{3}{1}$ | WM W  |
| 5+00 | 1.1 | 344.5 | 340.4 | C4 | $\frac{1}{1}$ |       |



ALLEY

BLK. 67

CONT.

WEST  
WILLIAMS  
VARON FAKIS  
KEMP

11/3/53

63

343.59

|      |      |        |          |    |               |          |
|------|------|--------|----------|----|---------------|----------|
| 5725 | 1.2  | 344.4  | 340.4    | C4 | $\frac{0}{1}$ |          |
| +33  | 1.2  | 344.4  | 344.3    | C0 | $\frac{1}{9}$ | WMS E    |
| +50  | 1.2  | 344.4  | 339.5    | C4 | $\frac{9}{9}$ |          |
| +57  | 1.0  | 344.6  | 343.7    | C0 | $\frac{9}{5}$ | WME      |
| +64  | 0.8  | 344.8  | 343.3    | C1 | $\frac{4}{6}$ | WME      |
| +73  | 1.4  | 344.2  | 342.8    | C1 | $\frac{6}{1}$ | WMS W    |
| +75  | 1.0  | 344.6  | 338.0    | C6 | $\frac{1}{1}$ |          |
| +76  | 1.1  | 344.5  | 342.4    | C2 | $\frac{1}{1}$ | W. M. W. |
| 6+00 | 4.5  | 341.1  | 337.0    | C4 | $\frac{1}{1}$ |          |
| +20  | 5.11 | 340.48 | 337.8    | C2 | $\frac{1}{1}$ |          |
|      | 4.32 | 341.27 | = 341.21 |    |               |          |



Nov. 10, 1933 - MILD.  
BEATTY  
SHREY  
MARTELL  
ALEXANDER

64.

UDALL ST.  
WARRINGTON ST. - SEW 318 FT.

UDALL ST. TO TENNYSON ST.  
⑤ STKS & GRD FOR 6" A.C. WATER

| TBM. |                       | 5.65 | 93.30 | 87.65                   |     |     |      |                       |   |
|------|-----------------------|------|-------|-------------------------|-----|-----|------|-----------------------|---|
|      |                       |      |       |                         |     |     |      |                       | Conc Man Swly Warrington & Udall                            |
| 0+35 | 6" Cross, Begin Work. | 5.4  | 87.9  | 82.6                    | C53 | 5.5 | 57.8 | Ground line<br>& Pipe | (= 0+35 Udall<br>0+45 Warrington)                           |
| 0+50 |                       | 4.0  | 89.3  | <del>83.2</del><br>83.2 | C61 | 4.0 |      |                       |   |
| 1+00 |                       | 2.2  | 91.1  | <del>85.2</del><br>85.2 | C59 | 2.2 |      |                       | GRADE CHANGE<br>DUE TO REVISED<br>EST. GRD.<br>SEE 10,000-L |
| 1+50 |                       | 0.9  | 92.4  | <del>86.4</del><br>86.4 | C60 | 0.9 |      |                       |   |
| 2+00 |                       | 0.5  | 92.8  | <del>87.5</del><br>87.5 | C52 | 0.5 |      |                       |   |
| 2+50 |                       | 1.3  | 92.0  | 88.0                    | C40 | 1.3 |      |                       | N side st<br>1+85 Top Gas 89.8<br>7.5<br>92.3               |
| 3+00 |                       | 1.9  | 91.2  | 87.8                    | C36 | 1.9 |      |                       |   |
| 3+13 | END WORK.             | 2.0  | 91.3  | 87.6                    | C37 | 2.0 |      |                       |   |
| 0+45 | 6" Cross, Begin Work  | 5.2  | 88.1  | 82.6                    | C55 | 5.5 |      |                       | (= 0+45 WARRINGTON<br>= 0+35 Udall.)                        |
| 0+50 |                       | 5.2  | 88.1  | 82.5                    | C56 | 5.5 |      |                       |   |
| 1+00 |                       | 5.9  | 87.4  | 82.1                    | C53 | 5.9 |      |                       |   |
| 1+50 |                       | 7.5  | 85.8  | 81.7                    | C41 | 7.4 |      |                       |   |
| 2+00 |                       | 8.0  | 85.3  | 81.4                    | C39 | 8.0 |      |                       |   |
| 2+50 |                       | 7.8  | 85.5  | 81.0                    | C45 | 7.7 |      |                       |   |
| 3+00 |                       | 8.6  | 84.7  | 81.0                    | C37 | 8.4 |      |                       |   |
| 3+50 |                       | 8.5  | 84.8  | 81.1                    | C37 | 8.3 |      |                       |   |
| 4+00 |                       | 8.4  | 84.9  | 81.2                    | C37 | 8.2 |      |                       | 4 pipe moved 13 to LT                                       |
| 4+05 | End Work              | 8.2  | 85.1  | 81.3                    | C38 | 8.2 |      |                       | " " " 15 to LT  |
|      |                       |      |       |                         |     |     |      |                       | 4+10 Existing Gr. 12 LT.                                    |

Udall

WARRINGTON











DIXON PLACE  
#  
WARRINGTON  
(Cont'd)  
214.04

CK PM 2.68 211.36 = 211.24

CK Rim Sew M.H. 2.79 211.25 = 211.13

WAT. MET 5.

1+50 RT. NELY

1+91 RT. NELY

2+44 LT. SWLY

2+43 RT. NELY

3+15 LT. SWLY

3+20 RT. NELY

3+98 LT. SWLY

5+01 RT. NELY

5+10 LT. SWLY

} Grade to Existing  
Curbs.

11-10-53

67

BP (good) NW Cor Warrington & Wildwood <sup>FB</sup> 819

0+30 Rim Sew M.H.  
FB 819 pg 46

3714 Dixon

3722 "

3727 "

3728 "

3735 "

3736 "

3747 "

1679 Warrington

(No Number) "



GARNET & HORNBLEND; MISSION & OCEAN BLVD.

ALLEY BLK 226

GARNET & HORNBLEND; MISSION & BAYARD  
② STKS & GRDS for EXISTING WAT METERS

Nov 16, 1953  
BEATTY  
SHOREY  
MARTELL  
Alexander

68.

BM 4.78 18.86 14.08 SEBR GARNET & MISSION  
Nly & Sly Alley

0+00 = Sly prop line Garnett

0+21 W 4.1 14.8 14.3 C05

0+94 W 4.7 14.2 13.7 C05

1+72 E 5.5 13.4 13.0 C04

2+67 E = Nly Prop line Hornblend

0+00 = Wly prop line of Nly & Sly Alley

0+42 N 5.0 13.9 13.2 C07

0+96 S 5.5 13.4 12.7 C07

1+16 N 6.0 12.9 12.7 C02

1+60 S 6.5 12.4 11.95 C05

1+80 = Wly prop line Mission Blvd

ALLEY BLK 225

0+00 = Ely prop line Mission Blvd

FD 0+18 S 7.20 19.16 6.90 11.96 11.9 C01

0+20 N 7.1 12.1 12.0 C01

0+53 N 7.1 12.1 12.2 F01

0+81 S 7.0 12.2 12.3 F01

1+63 S 6.3 12.9 13.4 F05

2+83 N 3.3 15.9 15.6 C03

3+56 S 2.7 16.5 16.5 C02

FD 9.02 26.30 1.88 17.28 PK. NAIL



ALLEY BLK 224  
 GARNET & HORN BLEND; BAYARD to Cass  
 (2) WAT METS (Cont'd)

11/16/53

69

26.30

0. 4+77 N

0. 6+07 N

0. 7+04 N

0. 7+05 N

1. 7+56 S

2. 7+86 N

0. 8+36 S

0. 8+41 S

1. 8+82 S

1. 9+26 N

1. 9+78 S

0. TP

TL

0. BM

0.

0.

0.

1.

2.

3.

4.

JET to Existing  
 CONC PAST.

5+00 = Wly prop line Bayard  
 5+80 = " " " "

4.9 21.4 20.9 C05

4.6 21.7 21.3 C04

4.1 22.2 21.7 C05

4.2 22.1 21.7 C04

3.7 22.6 22.1 C05

3.2 23.1 22.8 C03

2.8 23.5 23.0 C05

592 29.37 2.85 23.45

1.59 27.78 = 27.83 JEBP Garnet & Cass



ALLEY BLK 194

GARNET & FELDSPAR; MISSION TO BAYARD

ALLEY BLK 195

GARNET & FELDSPAR; BAYARD TO CASS

② GRDS & STKS FOR EXISTING WAT. METS

11-16-53

70

|                                   |         |       |       |         |   |
|-----------------------------------|---------|-------|-------|---------|---|
| B.M.                              | 8.44    | 22.52 | 14.08 |         | SE COR. GARNET & MISSION                        |
| 0+00 = Ely prop line Mission Blvd |         |       |       |         |   |
| 0 2+63 N                          |         |       |       |         | } SET IN CONC. DRIVEWAY<br>12' OUT FROM E ALLEY |
| 0 3+12 N                          |         |       |       |         |   |
| 0 3+28 N                          |         | 2.2   | 20.3  | 20.3    | COE   |
| 1 3+78 N                          |         | 1.7   | 20.8  | 21.0    | FO?   |
| 0 3+97.5                          |         | 1.2   | 21.3  | 21.1    | COE   |
| 0 4+44.5                          |         | 0.4   | 22.1  | 21.8    | COE   |
| TP                                | 9.19    | 31.65 | 0.06  | 22.26   |   |
| 0 7+32 S                          |         | 4.8   | 26.9  | 26.4    | COE   |
| 1 7+46 N                          |         | 4.7   | 27.0  | 26.7    | COE   |
| 1 7+82.5                          |         | 4.9   | 26.8  | 26.8    | COE   |
| 0 7+96 N                          |         | 4.5   | 27.2  | 27.1    | COE   |
| 0 8+53 N                          |         | 3.8   | 27.9  | 27.5    | COE   |
| 0 8+62 S                          |         | 4.3   | 27.4  | 27.4    | COE   |
| TL                                |         |       |       |         |   |
| 0 9+02 S                          | 2-METS. | 3.4   | 28.3  | 27.6    | COE   |
| 0 9+03 N                          |         | 3.0   | 28.7  | 27.9    | COE   |
| 0 9+53 N                          |         | 2.4   | 29.3  | 28.3    | COE   |
| 0 9+74.5                          |         | 3.4   | 28.3  | 28.2    | COE   |
| TP                                | 6.18    | 34.87 | 2.96  | 28.69   |   |
| 1 10+32 S                         |         | 6.2   | 28.7  | 28.8    | FOE   |
| CK BM                             |         | 7.06  | 27.81 | = 27.83 | SE COR. GARNET & CASS                           |

5+00 = Wly prop line Bayard.  
5+80 = Ely " " "



MORRELL ST.  
CROWN POINT TO PAC BEACH DR.  
② STRS & GRDS FOR EXISTING WAT. METS

11-16-53

71.

|                        |                     |       |       |     |                     |                |
|------------------------|---------------------|-------|-------|-----|---------------------|----------------|
| BM                     | 3.66                | 21.84 | 18.18 |     | NAIL IN Pole SW Cor |                |
| 0+00 = Nly prop line   | Crown Pt. (W. side) |       |       |     |                     |                |
| 0+35 W                 | 2.7                 | 19.1  | 16.1  | C30 | 45' from prop line  | 3976 Morrell   |
| 0+56 W                 | 2.7                 | 19.1  | 15.9  | C32 | " " "               | VACANT "       |
| 1+44 W                 | 4.1                 | 17.7  | 14.6  | C31 | 35 " "              | 3994 Morrell   |
| 1+54.2 = Sly prop line | Fortuna             |       |       |     |                     |                |
| 0+00 = Nly " " "       |                     |       |       |     |                     |                |
| 0+02 E                 | 6.5                 | 15.3  | 14.0  | C13 | 65' from prop line  | ? Crown Pt. Dr |
| 0+03 E                 | 6.6                 | 15.2  | 12.0  | C12 | 70 " " "            | " " "          |
| 0+04 E                 | 6.6                 | 15.2  | 14.0  | C12 | 75 " " "            | " " "          |
| 0+09.5 E               | 6.6                 | 15.2  | 14.1  | C12 | 80 " " "            | 2004 FORTUNA   |
| 0+35 W                 | 6.2                 | 15.6  | 14.7  | C02 |                     | 2004 MORRELL   |
| 0+86 W                 | 5.4                 | 16.4  | 15.0  | C12 |                     | 4012 "         |
| 0+96 E                 | 8.2                 | 13.6  | 14.5  | F09 | ✓                   | 4013 "         |
| 1+27 W                 | 5.7                 | 16.1  | 15.5  | C06 |                     | 4026 "         |
| 1+97 W                 | 13.07               | 28.81 | 16.3  | C05 |                     | 4034 "         |
|                        | 6.10                | 15.74 |       |     |                     |                |
|                        | 12.0                | 16.8  |       |     |                     |                |
| 2+12 E                 | 12.7                | 16.1  | 16.1  | C02 |                     | 4027 "         |
| 2+38 E                 | 11.8                | 17.0  | 16.7  | C02 |                     | 4037 "         |
| 2+62 W                 | 9.1                 | 19.7  | 17.8  | C19 |                     | 4042 "         |
| 2+79 E                 | 10.1                | 18.7  | 17.7  | C10 |                     | 4045 "         |
| 2+89 E                 | 9.5                 | 19.3  | 18.1  | C12 |                     | 4051 "         |
| 3+15 W                 | 7.8                 | 21.0  | 19.4  | C16 |                     | 4048 "         |
| 3+52 W                 | 7.0                 | 21.8  | 20.5  | C13 |                     | 4056 "         |
| 3+60 E                 | 7.9                 | 20.9  | 20.2  | C02 |                     | 4055 "         |
| 3+77 W                 | 6.3                 | 22.5  | 21.3  | C12 |                     | 4064 "         |
| 4+03 E                 | 6.5                 | 22.3  | 21.5  | C05 |                     | 4061 "         |
| 4+23 E                 | 6.0                 | 22.8  | 22.0  | C05 |                     | 4069 "         |
| 4+90 W                 | 4.6                 | 24.2  | 23.6  | C06 |                     | 4080 "         |



## MORRELL ST (Cont'd.)

11/17/53

72

## HONEYCUTT ST

PAC. BEACH DR TO CROWN PT. DR  
② GRDS & STRS FOR EXISTING NAT. MET

28.81

|   |                                    |       |       |       |       |         |     |                     |
|---|------------------------------------|-------|-------|-------|-------|---------|-----|---------------------|
| L | 2+99 E                             |       | 4.8   | 24.0  | 23.2  | C08     |     | 4077 MORRELL        |
|   | 5+32 W                             |       | 3.7   | 25.1  | 23.8  | C13     |     | 4088 "              |
| L | 5+39 F                             |       | 4.8   | 24.0  | 23.3  | C07     |     | 4083 "              |
| L | 5+79 W                             |       | 3.8   | 25.0  | 23.7  | C13     |     |                     |
|   | 5+95 E                             |       | 5.6   | 23.2  | 23.0  | C02     |     |                     |
| L | 6+10 F                             |       | 5.8   | 23.0  | 22.8  | C02     |     |                     |
|   | 6+13 = Sky Prop line Pac Beach Dr  |       |       |       |       |         |     |                     |
|   | TP                                 | 10.79 | 36.87 | 27.73 | 26.08 |         |     |                     |
|   |                                    |       |       |       |       |         |     |                     |
|   |                                    |       |       |       |       |         |     |                     |
|   | 0+100 = Sky prop line Pac Beach Dr |       |       |       |       |         |     |                     |
| L | 0+04 W                             |       | 4.8   | 32.1  | 31.6  | C15     |     |                     |
|   | 0+33 E                             |       | 5.7   | 31.2  | 30.4  | C15     |     | New House No Number |
| L | 0+57 F                             |       | 6.3   | 30.6  | 29.7  | C12     |     | 4095 Honeycutt      |
|   |                                    |       |       |       |       |         |     | 4085 "              |
| L | 0+65 E                             |       | 6.4   | 30.5  | 29.5  | C20     |     | 4098 "              |
| L | 1+12 W                             |       | 7.9   | 29.0  | 28.8  | C12     |     | 4080 "              |
|   | 1+16 E                             |       | 8.2   | 28.7  | 28.3  | C14     |     | 4077 "              |
| L | 1+69 E                             |       | 9.1   | 27.8  | 26.9  | C19     |     | 4069 "              |
| L | 1+74 W                             |       | 9.6   | 27.3  | 27.3  | C10     |     | 4068 "              |
| L | 2+18 W                             |       | 9.8   | 27.1  | 26.3  | C18     |     | 4064 "              |
| L | 2+43 E                             | 153   | 27.66 | 10.74 | 26.13 | 25.1    | C10 | 4053 "              |
|   | 2+65 W                             |       | 1.9   | 25.8  | 25.0  | C28 C08 | ✓   | 4056 "              |
| L | 3+19 E                             |       | 4.7   | 23.0  | 22.5  | C25 C05 | ✓   | 4043-45-47-49 "     |
| L | 3+52 F                             |       | 4.7   | 23.0  | 22.3  | C27 C07 | ✓   | 4037 "              |
|   | 3+56 W                             |       | 4.4   | 23.3  | 22.8  | C05     | ✓   | 4036 "              |
|   | 4+35 W                             |       | 5.8   | 21.9  | 21.2  | C07     | ✓   | 4028 "              |
|   | 4+39 E                             |       | 6.4   | 21.3  | 20.7  | C06     |     | 4031-29 "           |
|   | 4+79 E                             |       | 6.6   | 21.1  | 19.9  | C12     |     | 4021 "              |
|   | 5+05 W                             |       | 6.6   | 21.1  | 20.0  | C11     |     | 4014 "              |



HONEYCUTT JT  
(Cont'd)

11/17/53

73

27.66

|                |                        |      |               |       |        |                |
|----------------|------------------------|------|---------------|-------|--------|----------------|
| 5+22 E         |                        | 71   | 20.6          | 19.2  | C14    | 4011 Honeycutt |
| 5+83 W         |                        | 73   | 20.2          | 18.6  | C18    | 1926 Fortuna   |
| 5+85 E         |                        | 78   | 19.9          | 18.1  | C18    | 4005 Honeycutt |
| 6+13           | = NW prop line Fortuna |      |               |       |        |                |
| 6+58           | = SW prop line Fortuna |      |               |       |        |                |
| D              | 4.21 23.78             | 8.09 | 19.57         |       | Top FH |                |
| 6+87 W         |                        | 4.5  | 19.3          | 17.3  | C20    | ? Fortuna      |
| 6+97 E         |                        | 6.1  | 17.7          | 16.9  | C08    | "              |
| 7+06 W         |                        | 5.3  | 18.5          | 17.4  | C11    | 3992 Honeycutt |
| 7+14 E         |                        | 6.2  | 17.6          | 17.0  | C05    | 3991 "         |
| 7+46 E         |                        | 6.0  | 17.8          | 17.2  | C05    | 3985 "         |
| 7+47 W         |                        | 5.6  | 18.2          | 17.7  | C05    | 3982 "         |
| 7+95 E         |                        | 5.8  | 18.0          | 17.6  | C04    | 3977 "         |
| 8+40 E         |                        | 5.8  | 18.0          | 18.1  | F01 ✓  | 3971 "         |
| 8+81 E         |                        | 5.3  | 18.5          | 18.8  | F03 ✓  | 3965 "         |
| 8+85 W         |                        | 4.3  | 19.5          | 19.3  | C02    | 3966 "         |
| 9+25 E         |                        | 4.1  | 19.7          | 19.5  | C02    | 3955 "         |
| 9+28 W         |                        | 3.5  | 20.3          | 20.2  | C01    | 3956 "         |
| 10+01 W        |                        | 2.7  | 21.1          | 21.1  | C00    | 3948 "         |
| 10+25 W        |                        | 2.7  | 21.1          | 21.2  | F01    | 3940 "         |
| 10+80 W        |                        | 2.3  | 21.5          | 21.0  | C05    | 3930 "         |
| 11+195         | (1/200 East side)      |      |               |       |        |                |
| 11+33 W        |                        | 2.5  | 21.3          | 20.6  | C02    | 3926 "         |
| D              | 2.94 22.51             | 4.21 | 19.57         |       |        |                |
| CK DM          |                        | 4.25 | 18.16 = 18.18 |       |        |                |
| CK BM          |                        | 7.22 | 15.29         | 15.10 |        |                |
| EM             | 4.18 22.26             |      | 18.18         |       |        |                |
| ⑤ FH Reduction |                        | 4.90 | 17.42         | 12.15 |        |                |

C33 to Flange SECOR Fortuna & MORRELL



11/19/53

74

MORRELL ST  
Top of Existing 10" C.I.  
at FORTUNA INTERSECTION

FORTUNA, MORRELL TO CROWN POINT DR - 6" WAT

|        |     |       |       |        |                             |
|--------|-----|-------|-------|--------|-----------------------------|
| BM     | 264 | 20.82 | 18.18 |        |                             |
| 0+86.5 |     | 8.2   | 12.6  | - 124  | - 11' 30" of Sly Pl Fortuna |
| 0+54.5 |     | 8.3   | 12.5  | = 172  | - 21' Nec " " " "           |
| 0+00   |     | 8.2   | 12.6  | 0+00   | Ny Pl Fortuna               |
| 0+96 N |     | 8.1   | 12.7  | 0+96   | Nec " " "                   |
| 2+12 N |     | 6.7   | 14.1  | 2+12   | " " " "                     |
| 2+89 N |     | 5.2   | 15.6  | 2+89   | " " " "                     |
|        |     | 5.6   | 15.2  | = 15.2 |                             |

⊕ MET  
0+096

0+78.5  
FORTUNA, MORRELL TO CROWN PT DR, ⊕ for 6" WAT

FH  
Top of stem of C.I. (felt with a bar)

7' Conc Man NE Fortuna & Morrell

|         |        |       |       |              |     |
|---------|--------|-------|-------|--------------|-----|
| BM      | 437    | 19.47 | 15.10 |              |     |
| 0+00    |        | 5.1   | 14.4  | 13.7<br>10.2 | C42 |
| 0+50    |        | 5.7   | 13.8  | 13.2<br>09.7 | C41 |
| 1+00    |        | 6.6   | 12.9  | 12.2<br>08.7 | C42 |
| 1+50    |        | 7.0   | 12.5  | 11.2<br>07.7 | C48 |
| 1+71    | C" TEE | 7.9   | 11.6  | 10.8<br>07.3 | C43 |
| 1+235 N | }      | 6.8   | 12.7  |              | C09 |
| 1+245 N |        |       |       | 11.80        |     |
| 1+255 N |        | 6.9   | 12.6  |              | C08 |
| 1+76.5  |        |       |       |              |     |

we 28125

⊕ Relocated F.H. SE Cor.  
Morrell & Fortuna 2.1 17.4 14.18 C32, To HANGE



"Z" ST.  
36<sup>TH</sup> TO ACACIA  
② JKLS & GRDS FOR METS.

11/20/53  
BEATTY,  
BARKER,  
MARTIN,  
ALEXANDER.

75

|  |       |       |       |               |     |
|--|-------|-------|-------|---------------|-----|
| BM.                                      | 12.75 | 49.73 |       | 36.98         |     |
| TP                                       | 0.59  | 38.75 | 11.57 | 38.16         |     |
| CK BM                                    |       |       | 1.19  | 37.56 = 37.55 |     |
| 0+30 = Wly prop line 36 <sup>TH</sup> ST |       |       |       |               |     |
| 0+43 <sup>5</sup> Nly                    |       |       | 6.8   | 32.0          | 321 |
| 1+18 Sly                                 |       |       | 7.4   | 31.3          | 308 |
| 1+21 Nly                                 |       |       | 6.4   | 32.3          | 316 |
| 1+38 Sly                                 |       |       | 7.2   | 31.6          | 307 |
| TP                                       | 3.80  | 35.53 | 7.02  | 31.73         |     |
| 1+56 Nly                                 |       |       | 3.5   | 32.0          | 314 |
| 1+90 <sup>5</sup> Nly                    |       |       | 4.1   | 31.4          | 312 |
| 3+20 <sup>5</sup> Nly                    |       |       | 4.6   | 30.9          | 302 |
| 3+26 Nly                                 |       |       | 4.8   | 30.7          | 302 |
| 3+91 Nly                                 |       |       | 4.7   | 30.8          | 296 |
| 4+06 <sup>2</sup> Nly prop line 3        |       |       |       |               |     |
| 20+ TP                                   |       |       | 3.08  | 32.45         |     |
| TP                                       | 7.49  | 38.79 | 4.23  | 31.30         |     |
| CK BM                                    |       |       | 1.26  | 37.55 = 37.55 |     |

SE 36<sup>th</sup> & National

Nail in pole 125' Nly NW Cor 36<sup>th</sup> & Z

FO<sup>1</sup> 3554 Z ST

CO<sup>5</sup> 3507 "

CO<sup>2</sup> 3548 "

C/L 3541 "

CO<sup>6</sup> 3540 "

CO<sup>8</sup> 3532 "

CO<sup>7</sup> 3518 "

CO<sup>5</sup> 3512 "

C/L 3504 "

Top FH. Sely Acacia & Z ST.



ALLEY BLKS. 24 & 29  
 E. of 49<sup>TH</sup> & N. of UNIVERSITY AVE  
 ⑤ STRS & GRDS for 6" WATER

DEC. 1 1953  
 BEATTY  
 SHOREY  
 MARTELL  
 ALEXANDER

76.

|         |                           |            |      |        |       |
|---------|---------------------------|------------|------|--------|-------|
| BM      | 12.99                     | 325.35     |      | 312.36 |       |
| 0+00    | = So. RL Univ. Ave.       |            |      |        |       |
| 0+85    |                           | Begin Work | 4.3  | 321.1  | 317.4 |
| 1+00    |                           |            | 3.9  | 321.5  | 317.5 |
| +50     |                           |            | 3.6  | 321.8  | 318.0 |
| 2+00    |                           |            | 1.2  | 324.2  | 320.2 |
| ④       | 13.15                     | 338.36     | 0.12 | 325.21 |       |
| +50     |                           |            | 10.5 | 327.9  | 323.8 |
| 3+00    |                           |            | 6.4  | 332.0  | 327.3 |
| +50     |                           |            | 3.8  | 334.6  | 330.8 |
| 4+00    |                           |            | 1.5  | 336.9  | 332.4 |
| ④       | 9.20                      | 347.14     | 0.42 | 337.94 |       |
| +50     |                           |            | 8.2  | 338.9  | 334.0 |
| 5+00    |                           |            | 6.7  | 340.4  | 335.6 |
| +25     |                           |            | 5.9  | 341.2  | 336.4 |
| +50     |                           |            | 5.1  | 342.0  | 336.9 |
| 6+00    |                           |            | 4.6  | 342.5  | 337.9 |
| +50     |                           |            | 3.9  | 343.2  | 339.0 |
| +74     | = END WORK                |            |      |        |       |
| 6+78.85 | = Prop. LINE, So. Fork ST |            |      |        |       |
| 7+18.85 | = Prop. LINE, N. Fork     |            |      |        |       |
| 7+24    |                           | Begin Work | 1.9  | 345.2  | 340.0 |
| +50     |                           |            | 1.3  | 345.8  | 340.7 |
| +625    |                           |            | 1.3  | 345.8  | 341.0 |
| 8+00    |                           |            | 0.3  | 346.8  | 342.1 |
| ④       | 9.34                      | 356.35     | 0.33 | 346.81 |       |
| +50     |                           |            | 8.3  | 348.1  | 343.4 |

BP  
 NE Cor 49<sup>TH</sup> & UNIV (pp 37)

C37

C40

C38

C40

C41

C42

C38

C45

C49

C48

C48

C51

C46

C42

C40

C52

C51

C48

C47

C47



ALLEY BLKS 24 & 29  
(Cont'd.)

DEC. 4, 1953  
Same Party.

77

356.35

|           |        |       |        |         |                                    |
|-----------|--------|-------|--------|---------|------------------------------------|
| 9+00      |        | 7.1   | 349.3  | 344.6   | C47                                |
| +50       |        | 6.3   | 350.1  | 345.8   | C43                                |
| 10+00     |        | 5.2   | 351.2  | 347.0   | C42                                |
| +50       |        | 4.8   | 351.6  | 347.0   | C46                                |
| 10+75     |        | 5.3   | 351.1  | 347.0   | C41                                |
| 11+00     |        | 6.1   | 350.3  | 345.8   | C45                                |
| 11+25     |        | 7.4   | 349.0  | 344.6   | C44                                |
| +50       |        | 9.6   | 346.8  | 341.9   | C49                                |
| 12+00     | 0.79   | 12.89 | 343.46 |         |                                    |
| +25       |        | 3.1   | 341.2  | 336.6   | C46                                |
| +50       |        | 6.0   | 338.3  | 332.0   | C43                                |
| +75       | 4.31   | 9.6   | 334.7  | 330.5   | C42                                |
| 13+00     |        | 13.27 | 330.98 | 327.5   | C35                                |
| +216      |        | 6.0   | 329.3  | 326.0   | C33                                |
| 8x6 Cross |        | 6.4   | 328.9  | 325.5   | C34                                |
| 12.62     | 347.47 | 0.44  | 332.85 |         |                                    |
| 4.86      | 350.45 | 1.88  | 345.59 |         |                                    |
|           |        | 1.84  | 348.61 |         |                                    |
|           |        |       |        | 348.63  | pg. 39                             |
|           |        |       |        | -348.45 | 5th Car Orange & Estrella (pg. 39) |

WATER METERS

|          |        |      |       |       |     |
|----------|--------|------|-------|-------|-----|
| 1+05 W   | 325.35 | 5.4  | 320.0 | 320.3 | F03 |
| 1+64 E   | "      | 3.4  | 322.0 | 322.3 | F03 |
| 2+27 W   | 338.36 | 11.9 | 326.5 | 325.6 | C09 |
| 2+55 W   | "      | 9.9  | 328.5 | 327.8 | C07 |
| 3+38 W   | "      | 3.8  | 334.6 | 333.9 | C07 |
| 3+98.5 W | "      | 1.5  | 336.9 | 336.2 | C07 |



## ALLEY BLKS. 24, 29

12/2/53

78

(Cont'd)

## WATER METERS

|              |        |     |       |        |     |
|--------------|--------|-----|-------|--------|-----|
| 4+19 E       | 338.36 | 0.7 | 337.7 | 337.0  | C07 |
| 4+77 W       | 347.14 | 7.9 | 339.2 | 338.7  | C05 |
| 5+01 E       | "      | 6.7 | 340.4 | 339.6  | C08 |
| 5+04 W       | "      | 6.7 | 340.4 | 339.4  | C12 |
| 5+46 W       | "      | 6.0 | 341.1 | 340.6  | C05 |
| 5+53 W       | "      | 5.4 | 341.7 | 340.7  | C12 |
| 5+69 E       | "      | 5.0 | 342.1 | 341.4  | C07 |
| 5+95 W       | "      | 4.9 | 342.2 | 341.5  | C07 |
| 5+98 E       | "      | 4.5 | 342.6 | 341.9  | C07 |
| 6+40 W 2-MET | "      | 4.1 | 343.0 | 342.12 | C09 |
| 7+24 W       | "      | 2.5 | 342.6 | 342.8  | C18 |
| 7+46 E       | "      | 1.4 | 345.7 | 344.5  | C12 |
| 7+66 W       | "      | 1.2 | 345.9 | 345.1  | C08 |
| 8+18 W       | "      | 0.3 | 346.8 | 346.5  | C03 |
| 8+26 E       | 356.35 | 9.1 | 346.3 | 347.0  | F07 |
| 8+31 W       | "      | 9.1 | 346.3 | 346.9  | F06 |
| 8+59 E       | "      | 8.0 | 348.4 | 347.6  | C08 |
| 8+62 W       | "      | 8.1 | 348.3 | 347.6  | C07 |
| 9+25 W       | "      | 6.7 | 349.7 | 349.1  | C06 |
| 9+29 E       | "      | 6.5 | 349.9 | 349.3  | C06 |
| 9+67 E       | "      | 5.7 | 350.7 | 350.1  | C06 |
| 9+75 W       | "      | 5.8 | 350.6 | 351.3  | F07 |
| 10+13 W      | "      | 4.9 | 351.5 | 351.3  | C02 |
| 10+19 E      | "      | 5.1 | 351.3 | 351.4  | F01 |
| 10+73 W      | "      | 4.7 | 351.7 | 351.0  | C07 |
| 11+28 W      | "      | 6.4 | 350.0 | 348.3  | C17 |
| 11+73 W      | "      | 9.9 | 346.5 | 344.1  | C24 |
| 12+09 W      | 344.25 | 2.4 | 341.9 | 340.4  | C15 |
| 12+58 W      | "      | 7.4 | 336.9 | 334.6  | C23 |



Stks For 6" Main

Pacific Beach Dr Mission Blvd  
Co. 175' West

5.42 + 3.61 - 1.81

0 + 00 5.74 - 1.53 - 6.8

10.51 - 6.90

5. + 50 5.12 - 1.51 - 6.3

1 + 00 5.0 - 1.4 - 5.05

5. + 50 4.8 - 1.2 - 4.9

5. + 75 4.7 - 1.1 - 4.6

5.42 - 1.81

(79)

5.42  
1.81  
3.61

N

BM NE BP Mission Blvd + Pacific  
Beach Dr.

C5 3

Botc of 12" @.

C4 3

C4 1

C3 1

C3 5



Please Return to  
 City of San Diego Water Dept.  
 Room 903 Civic Center

12551  
 53  
 82

50  
 38  
 711

7.8  
 16  
 168  
 28  
 1248

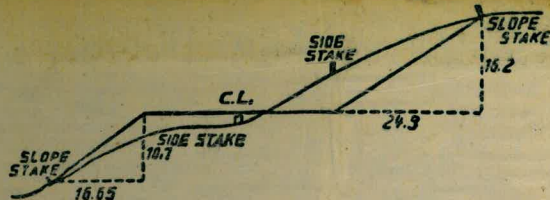
32  
 16  
 41

205

60.45  
 39.55

135.09

50  
 40  
 35



**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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