

W 802

DIRECTIONS FOR USE OF TABLES

TABLE No. XIV

Distance of slope stake from side or shoulder stake for any width roadway, slope $1\frac{1}{2}$ to 1. If ground is nearly level, the cut or fill at side stake is located by the double entry method in left column and top row. The number in body of table in same row and column gives distance from side stake to slope stake. If ground is not level estimate the difference in elevation between the side stake and slope stake, lower target by this amount if cut, elevate if fill. Add this amount to cut or fill and find distance in table. Set up rod at this point, and line of sight should cut target. If it does not make the slight adjustment necessary.

TABLE No. VIII

To find Tangent and External for curve of any other degree, divide by degree of curve and add correction found in column of corrections. Degree of curve with a given I may be found by dividing tangent, (or external), opposite I by given tangent, (or external).

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

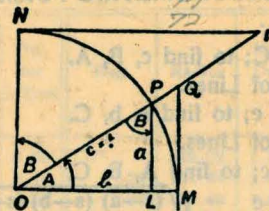


TABLE II
TRIGONOMETRIC FORMULÆ.

$$\begin{aligned} \angle A &= \angle MOP & \angle B &= \angle PON = \angle OPL \\ R &= OB = c = 1 \\ \sin A &= \frac{a}{c} = \frac{a}{1} = a = \cos B = LP \\ \cos A &= \frac{b}{c} = \frac{b}{1} = b = \sin B = OL \\ \tan A &= \frac{a}{b} = \frac{MQ}{OM} = \frac{MQ}{1} = MQ = \cot B = MQ \\ \cot A &= \frac{NT}{ON} = \frac{NT}{1} = NT = \tan B = NT \\ \sec A &= \frac{OQ}{OM} = \frac{OQ}{1} = OQ = \csc B = OQ \\ \csc A &= \frac{OT}{ON} = \frac{OT}{1} = OT = \sec B = OT \\ \text{vers } A &= \frac{LM}{OP} = LM = \text{covers } B \neq \\ \text{covers } A &= \frac{OP-LP}{OP} = OP-LP = \text{vers } B \\ \text{exsec } A &= PQ = \text{coexsec } B \\ \text{coexsec } A &= PT = \text{exsec } B \\ \sin \frac{1}{2} A &= \sqrt{\frac{1-\cos A}{2}} & \cos \frac{1}{2} A &= \sqrt{\frac{1+\cos A}{2}} \\ \sin 2 A &= 2 \sin A \cos A & \cos 2 A &= \cos^2 A - \sin^2 A \\ \text{Law of Lines} & \frac{\sin A}{a} = \frac{\sin B}{B} = \frac{\sin C}{C} \\ \text{Law of Cosines} & c^2 = a^2 + b^2 - 2 ab \cos C \\ \text{Law of Tangents} & \frac{a+b}{a-b} = \frac{\tan \frac{1}{2} (A+B)}{\tan \frac{1}{2} (A-B)} \end{aligned}$$

TABLE XIII—CORRECTIONS FOR TANGENTS AND EXTERNALS

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

FOR TANGENTS ADD

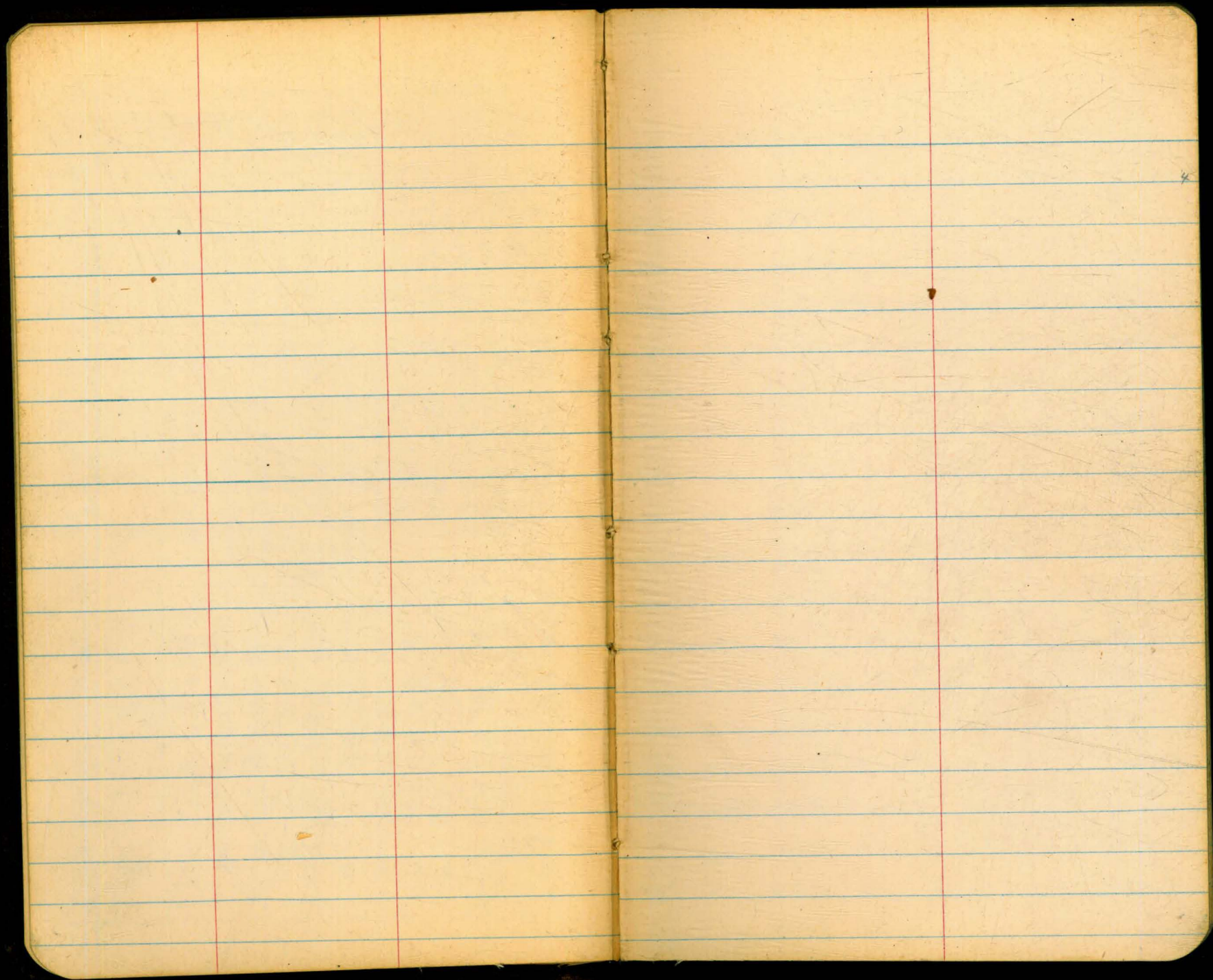
| Central Angle | DEGREE OF CURVE | | | | | | | | | | | | | |
|---------------|-----------------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° | 55° | 60° | 65° | 70° |
| 10° | .03 | .06 | .09 | .13 | .16 | .19 | .22 | .25 | .28 | .31 | .34 | .38 | .42 | .46 |
| 15° | .04 | .10 | .14 | .19 | .24 | .29 | .34 | .39 | .45 | .51 | .53 | .58 | .63 | .68 |
| 20° | .06 | .13 | .19 | .26 | .32 | .39 | .45 | .51 | .58 | .65 | .72 | .79 | .84 | .90 |
| 25° | .08 | .16 | .24 | .33 | .40 | .49 | .58 | .67 | .75 | .83 | .90 | .99 | 1.06 | 1.14 |
| 30° | .10 | .19 | .29 | .39 | .49 | .59 | .69 | .79 | .89 | .99 | 1.09 | 1.20 | 1.29 | 1.39 |
| 35° | .11 | .22 | .34 | .47 | .58 | .69 | .79 | .81 | .92 | 1.04 | 1.14 | 1.21 | 1.29 | 1.36 |
| 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 | .617 | .707 | .797 | .887 | .977 | 1.07 | 1.18 | 1.29 |
| 80° | .110 | .220 | .332 | .445 | .558 | .671 | .787 | .903 | 1.02 | 1.13 | 1.25 | 1.38 | 1.50 | 1.62 |
| 85° | .128 | .259 | .391 | .524 | .657 | .790 | .926 | 1.06 | 1.20 | 1.34 | 1.47 | 1.62 | 1.76 | 1.91 |
| 90° | .149 | .299 | .450 | .603 | .756 | .910 | 1.07 | 1.22 | 1.38 | 1.54 | 1.70 | 1.87 | 2.03 | 2.20 |
| 95° | .174 | .350 | .522 | .706 | .885 | 1.06 | 1.25 | 1.43 | 1.62 | 1.80 | 1.99 | 2.18 | 2.38 | 2.58 |
| 100° | .200 | .401 | .604 | .809 | 1.01 | 1.22 | 1.43 | 1.64 | 1.85 | 2.06 | 2.28 | 2.50 | 2.73 | 2.96 |
| 110° | .268 | .536 | .806 | 1.08 | 1.35 | 1.63 | 1.91 | 2.20 | 2.48 | 2.76 | 3.05 | 3.35 | 3.66 | 3.96 |
| 120° | .360 | .721 | 1.08 | 1.45 | 1.82 | 2.19 | 2.57 | 2.95 | 3.33 | 3.72 | 4.11 | 4.50 | 4.91 | 5.32 |

INDEX

6' offset grade stakes BONITA Pipeline ^{MPV} 1-6-8
 Meter Boxes - Vanconerst - Maple Sa. ^{alice} ✓ 36
 Profile ground - 2nd - 4th Ave Bonita P.L. ✓ 37
 Shrubbery " " " " " " ✓ 39-39
 JAMACHA ROAD GRADES SET © ✓ 40-43
 MELROSE PLACE 6" MAIN STAKED ✓ 44
 MANZANITA DRIVE 6" MAIN STAKED ✓ 45-48
 Arbores Vitae 8" MAIN STAKED ✓ 49
 42nd ST 6" MAIN STAKED ✓ 50
 ROSWELL ST 6" MAIN STAKED ✓ 51-52
 MANZANITA & GLENFIELD STS WATER METERS ✓ 52
 GLENFIELD ST 6" MAIN STAKED ✓ 54
 SANTA FE & PALMA F.H. STAKED ✓ 53
 CRESTON DRIVE 6" MAIN STAKED ✓ 56
 " " " " " " ✓ 57 & 58
 HEATHER ST 8" MAIN STAKED ✓ 59
 MANZANITA DR. WATER METERS ✓ 60
 MANZANITA DR 8" MAIN STAKED ✓ 61-62
 CRESTON DR & SELMA - WATER METERS ✓ 63-64
 MANZANITA DRIVE - Heather's Doherty WAT MET ✓ 65
 STAKES for curb replacement - Hilltop Drive ✓ 66-67
 Bonita Pl. Repla.
 STK for 8" MAIN MANZANITA PLACE " ✓ 68
 MANZANITA DRIVE - WAT MET. 5 " ✓ 69
 Road Ave " " " " ✓ 70
 MANZANITA DR - STAKES for 8" MAIN " ✓ 71-72
 Heather to MANZ PLACE " ✓ 72
 " " WATER MET. " ✓ 72
 TUBEROSE ST 8" WAT MAIN " ✓ 73
 63rd BROADWAY to AIKEN WAT MET. 74-75
 HANOVER ST 6" WAT. MAIN " ✓ 76
 68, 69, 70, Saranac, etc. Relocation FHV 77
 El Top 6" CI. MAIN 63rd ST. North of MONTEZUMA " ✓ 78



SEPT 20 1950
BEATTY T N
LEONARD #

BONITA PIPELINE

6' OFFSET GRADE STAKES (RIGHT)

| STATION | + B.S. | HI. | - F.S. | Elev. | GRADE | CUT |
|-----------|--------|--------|--------|--------|--------|------------------|
| BM | 9.24 | 166.41 | | 157.17 | | ⑥ |
| 342+07.2 | | | 1.30 | 165.11 | 154.70 | C10 ⁺ |
| +38.5 | | | 2.00 | 164.41 | " | C9.2 |
| +69.0 | | | 2.93 | 163.48 | " | C8.8 |
| 343+00.18 | | | 3.76 | 162.65 | " | C8.0 |
| +31.15 | | | 4.34 | 162.07 | " | C7.4 |
| +62.23 | | | 5.03 | 161.38 | 152.39 | C9.0 |
| +93.31 | | | 5.68 | 160.73 | 152.13 | C8.6 |
| 344+21.27 | | | 6.48 | 159.93 | 151.89 | C8.0 |
| +50.82 | | | 7.25 | 159.16 | 151.65 | C7.5 |
| +81.04 | | | 8.04 | 158.37 | 151.13 | C7.2 |
| 345+12.11 | | | 9.09 | 157.32 | 150.60 | C6.7 |
| +43.25 | | | 9.74 | 156.67 | 150.07 | C6.6 |
| +74.25 | | | 10.28 | 156.13 | 149.54 | C6.6 |
| 346+02.99 | | | 11.00 | 155.41 | 149.01 | C6.4 |
| +35.03 | | | 11.66 | 154.75 | 147.51 | C7.2 |
| +65.32 | | | 12.11 | 154.30 | 146.60 | C7.7 |
| +93.31 | | | 12.40 | 154.01 | " | C7.4 |
| IP | 8.33 | 162.18 | 12.56 | 153.85 | | |

pp. 29 BK 789 C pipe at drive gate 35' RT 346+30

NOTE:

Elev of NATURAL GROUND AT #
OF PIPE IS THE SAME AS

⑥ UNLESS OTHERWISE

Noted IN THIS COLUMN



SEPT. 21, 1950

NOTE:

& Shifted to Right,
Thru Section of
Orig. GUNNITED PIPE
as noted below:-

0.30 RT

10/2/50
} PIPE LENGTH 31.06

on curb 15' LT 347+24

9/20/50

BONITA PIPELINE
6' off 30' GRADE STAKE (RIGHT)
162.18

| | | | | |
|----------|------|--------|----------|------|
| 347+2427 | 8.64 | 153.54 | 146.60 | C62 |
| +5542 | 9.07 | 153.11 | " | C65 |
| +8574 | 9.38 | 152.80 | " | C62 |
| 348+1652 | 9.41 | 152.77 | " | C62 |
| +4665 | 9.45 | 152.73 | 146.60 | C61 |
| +7782 | 9.64 | 152.54 | 146.16 | C64 |
| 349+094 | 9.01 | 153.17 | 145.72 | C75 |
| +3861 | 8.53 | 153.65 | 145.21 | C84 |
| +6671 | 8.11 | 154.07 | 145.33 | C87 |
| CK B.M. | 9.01 | 153.17 | = 153.16 | |
| +9787 | 7.51 | 154.67 | 145.47 | C92 |
| 350+2921 | 6.72 | 155.46 | 145.61 | C99 |
| +5936 | 6.00 | 156.18 | 145.74 | C104 |
| +9070 | 5.61 | 156.57 | 146.35 | C103 |
| 351+2199 | 5.31 | 156.87 | 147.72 | C92 |
| +5303 | 5.07 | 157.11 | 149.08 | C80 |
| +8314 | 4.81 | 157.37 | 150.45 | C62 |
| 352+1220 | 4.08 | 158.10 | 151.73 | C64 |
| +3960 | 3.47 | 158.71 | 152.21 | C65 |
| CK B.M. | 4.36 | 157.82 | = 157.84 | |

± Shifted

| | | | | |
|------------------------------|---------------------------|---------------|-----|----------|
| | | | | 0.60 RT. |
| | Right of Orig. & | | | |
| | 12.8 | 9.1 | | 0.90 RT. |
| | 3.5 | 4.8 | | |
| 347+160 | BEGIN GUNNITE | | | 1.0 RT. |
| | SECTION Original 28' PIPE | 13.4 | 9.4 | |
| | | 3.5 | 5.0 | |
| | | 13.4 | 9.4 | 1.0 RT. |
| | | 3.5 | 5.0 | |
| | | 13.9 | 9.5 | 1.0 RT. |
| | | 3.5 | 5.0 | |
| | | 13.6 | 9.6 | 1.0 RT. |
| | | 3.5 | 5.1 | |
| | | 13.7 | 9.0 | 1.0 RT. |
| | | 3.5 | 4.9 | |
| | | 13.2 | 8.5 | 1.0 RT. |
| | | 3.5 | 4.9 | |
| | | 12.4 | 8.1 | 1.0 RT. |
| | | 3.5 | 5.0 | |
| BP SW. Cor 42nd, Hilltop | | pg. 20 BK 789 | | |
| | | 12.3 | 7.5 | 1.0 RT. |
| | | 3.5 | 4.9 | |
| | | 11.5 | 6.7 | 1.0 RT. |
| | | 3.5 | 5.0 | |
| | | 11.3 | 6.0 | 1.0 RT. |
| | | 3.5 | 5.0 | |
| | | 10.8 | 5.6 | 1.0 RT. |
| | | 3.5 | 5.0 | |
| | | 11.1 | 5.3 | 1.0 RT. |
| | | 3.5 | 5.0 | |
| | | 10.9 | 5.1 | 1.0 RT. |
| | | 3.5 | 5.0 | |
| | | 10.9 | 4.8 | 1.0 RT. |
| | | 3.5 | 5.0 | |
| | | 10.1 | 4.1 | 1.0 RT. |
| | | 3.5 | 5.0 | |
| | | 9.1 | 3.5 | 1.0 RT. |
| | | 3.5 | 5.0 | |
| BP SW. Cor Morrison, Hilltop | | | | |

SEPT 25, 1950
 BEATTY
 LEONARD

3.

BONITA PIPELINE

6' OFFSET STAKES (RIGHT)

| P | 5.58 | 163.42 | 157.84 | |
|----------|-------|--------|--------------|------------|
| 352+6564 | | | 4.00 159.42 | 152.21 C72 |
| +95.17 | | | 3.23 160.19 | 151.57 C86 |
| 353+2489 | | | 3.22 160.20 | 150.93 C93 |
| +53.89 | | | 4.10 159.32 | 150.31 C90 |
| +83.83 | | | 5.75 157.67 | 149.67 C80 |
| 354+1192 | | | 7.54 155.88 | 148.41 C75 |
| +40.47 | | | 9.00 154.42 | 147.15 C73 |
| +69.34 | | | 9.67 153.75 | 145.86 C79 |
| +97.52 | | | 9.95 153.47 | 144.60 C89 |
| 355+2537 | | | 10.03 153.39 | C88 |
| +56.41 | | | 10.02 153.40 | 144.60 C88 |
| +84.38 | | | 9.81 153.61 | 144.60 C88 |
| | | | 8.67 154.75 | 145.87 C77 |
| 356+1574 | | | 8.67 154.75 | 145.00 C68 |
| +46.71 | | | 7.00 156.36 | C62 |
| +77.63 | | | 5.02 158.40 | C62 |
| H Rock | | | 2.32 161.10 | 152.23 C62 |
| 357+0866 | | | 0.69 162.73 | C68 |
| H Rock | 12.93 | 175.66 | 0.69 162.73 | |
| +38.30 | | | 11.92 163.74 | 156.37 C74 |

BP SW Cor Morrison

END OF GUNNITED PIPE 352+48

Shifted

(352+52) * 10.0 4.0 0.6 RT
 3.5 5.0

0.3 RT

0.0

-1

9/25/50

BERRY
LEONARD

BONITA PIPELINE

6' OFFSET GRADE STAKES (RIGHT)

| | | | | | |
|----------------------|--------|------|-----------------|--------|------|
| 357+68 ⁹³ | 175.66 | 9.55 | 166.11 | 158.46 | C77 |
| +97.17 | | 7.82 | 167.84 | 160.38 | C75 |
| 358+26 ⁸⁷ | | 5.89 | 169.77 | 162.07 | C77 |
| +57.91 | | 4.27 | 171.39 | 163.32 | C81 |
| +88.97 | | 2.81 | 172.85 | 164.57 | C83 |
| 359+20 ⁰⁹ | | 1.26 | 174.40 | 165.82 | C86 |
| W. rock | 9.14 | 0.11 | 175.55 | | |
| +51.19 | 184.69 | 8.74 | 175.95 | 167.07 | C89 |
| +82.25 | | 7.38 | 177.31 | 168.32 | C90 |
| 360+13 ³² | | 6.31 | 178.38 | 169.57 | C88 |
| +44.44 | | 5.42 | 179.27 | 170.81 | C85 |
| +75.40 | | 5.12 | 179.57 | 171.42 | C92 |
| 361+06 ²³ | | 4.54 | 180.15 | " | C87 |
| +37.39 | | 3.76 | 180.93 | 171.42 | C95 |
| +69.51 | | 3.14 | 181.55 | " | C91 |
| CK. BM | 6.16 | 4.32 | 180.37 = 180.36 | " | C103 |
| 361+99 ⁹³ | | 4.86 | 181.67 | " | C103 |
| CK. BM | | 5.06 | 181.47 | 181.16 | |
| 362+30 ⁹⁵ | | 5.38 | 181.15 | 171.42 | C92 |
| +62.02 | | 6.04 | 180.49 | " | C91 |
| +93.27 | | 6.79 | 179.74 | " | C89 |

SEPT 27, 1950

| | | | | | |
|------|------|------|------|------|------|
| 65.9 | 61.6 | 61.2 | 60.7 | 61.5 | 66.0 |
| 7.8 | 16.1 | 16.5 | 15.0 | 14.2 | 9.7 |
| 4.0 | 3.5 | 3.5 | 3 | 4.2 | 2.5 |
| 67.9 | 62.5 | 62.1 | 61.3 | 62.4 | 67.7 |
| 7.8 | 13.7 | 13.6 | 14.4 | 13.2 | 8.0 |
| 4 | 3.5 | 3 | 2 | 3.2 | 4.0 |
| 69.4 | 65.7 | 64.6 | | 63.7 | 69.6 |
| 6.3 | 16.0 | 14.1 | | 12.0 | 12.1 |
| 5 | 2 | 3 | | 3 | 5 |
| | 71.3 | 68.3 | | 69.1 | 71.4 |
| | 4.4 | 7.4 | | 5.5 | 8.3 |
| | 5 | 3.2 | | 2 | 5 |
| | 72.8 | 70.4 | | 69.2 | 72.9 |
| | 2.9 | 3.2 | | 6.5 | 2.8 |
| | 5.0 | 3.5 | | 3 | 4.5 |
| | 73.9 | 69.2 | | 72.4 | 74.2 |
| | 4.8 | 6.5 | | 4.8 | 4.5 |
| | 2.6 | 3.1 | | 3.3 | 2.5 |
| 73.6 | 72.4 | 67.9 | | 71.7 | 75.8 |
| 4.1 | 13.3 | 16.8 | | 13.0 | 8.9 |
| 4.2 | 2.9 | 2.9 | | 3 | 3.8 |
| | 77.0 | 70.6 | | 69.7 | 74.0 |
| | 2.7 | 15.1 | | 15.0 | 10.7 |
| | 4.6 | 3.0 | | 3.3 | 2.3 |
| 78.2 | 76.5 | 72.5 | | 76.8 | 77.1 |
| 6.5 | 8.2 | 12.2 | | 7.9 | 7.6 |
| 4.9 | 3.3 | 3.3 | | 3.8 | 4.2 |
| | | 1.9 | | | 5.0 |

360+18 = 0.0

O.D. SW Cor. 20" pp. 31 BR 789

1/2" I.P. Inter. to 6" & 1/2" top.

SEPT 26, 1950

BEATTY
LEONARD

5

BONITA PIPELINE

6' OFFSET GRADE STAKES (RIGHT)

| BM | 2.28 | 182.64 | 180.36 | BP SW Cor 40 th |
|------------|------|--------|---------------------|----------------------------|
| 363 + 2439 | | | 3.90 178.74 170.48 | C83 |
| +54.60 | | | 5.03 177.61 169.56 | C84 |
| +85.65 | | | 6.58 176.06 168.62 | C74 |
| 364 + 1674 | | | 7.72 174.92 167.68 | C72 |
| +47.81 | | | 8.86 173.78 166.03 | C78 |
| +78.23 | | | 9.85 172.79 164.27 | C85 |
| 365 + 0985 | | | 10.56 172.08 163.10 | C90 |
| +41.21 | | | 11.35 171.29 162.74 | C86 |
| +72.28 | | | 12.21 170.43 162.38 | C91 |
| 366 + 0339 | | | 13.22 169.28 162.02 | C73 |
| Rock | 8.43 | 177.76 | 13.31 169.33 | |
| +34.49 | | | 9.96 167.80 161.08 | C67 |
| +65.29 | | | 11.31 166.45 161.14 | C59 |
| +96.74 | | | 12.74 165.02 159.20 | C58 |
| 367 + 2421 | | | 13.42 164.34 158.40 | C59 |
| +49.12 | | | 13.31 164.45 " " | C61 |
| +77.07 | | | 12.07 165.69 " " | C73 |
| +81.32 | | | 11.98 165.78 158.40 | C74 |

1208
490
6296

9-26-50

BONITA PIPELINE

6' OFFSET GRADE STAKES (RT)
177.76

| | | | | | |
|----------------------|------|--------|--------|-----------------|--------|
| 368+12 ⁰⁸ | | 10.09 | 167.67 | 158.40 | C93 |
| +42 ⁵⁵ | | 8.13 | 169.63 | 158.40 | C112.0 |
| +68 ⁴⁵ | | 6.33 | 171.43 | 160.50 | C109 |
| +97 ⁶⁹ | | 4.24 | 173.52 | 162.70 | C108 |
| 369+27 ⁴⁰ | | 2.61 | 175.15 | 164.93 | C103 |
| +57 ⁵² | | 1.50 | 176.26 | 167.2 | C94 |
| +87 ⁹⁵ | | 0.68 | 177.08 | " | C99 |
| 370+19 ⁰⁵ | | 0.47 | 177.29 | " | C101 |
| +50 ¹⁶ | | 0.84 | 176.92 | " | C97 |
| +80 ³⁸ | | 1.58 | 176.18 | " | C90 |
| 371+11 ³¹ | | 2.53 | 175.23 | 167.20 | C80 |
| +42 ¹⁸ | | 5.66 | 172.10 | 165.20 | C69 |
| TBM | 3.39 | 176.99 | 4.22 | 173.54 = 173.60 | |
| +55 ⁴² | | 6.68 | 170.31 | 163.62 | C63 |
| 371+87 ²¹ | | 10.82 | 166.17 | 159.68 | C65 |
| OK TBM | 3.39 | 173.60 | 173.60 | | |

10-21' DT
TAN - 0.55

| | |
|-------|-------|
| 55.40 | 50.20 |
| 50.20 | 42.18 |
| 55 | 8.02 |
| 4.87 | 7.55 |
| 32.29 | 7.47 |
| 37.16 | |

NAIL IN POW. POLE

10/4/50

BEATTY
LEONARD
BAKER

7.

BONITA PIPELINE
6' OFFSET GRADE STAKES (LEFT)

| | | | | |
|----------------------|------|--------|--------|---------------------------------|
| TBM | 3.19 | 173.40 | 170.22 | |
| IP | 2.40 | 169.34 | 4.26 | 166.94 |
| 342+07 ² | | | 4.27 | 165.07 154.70 90 ⁺ |
| 342+00 ⁰³ | | | 4.19 | 165.15 154.70 90 ⁺ ✓ |
| 341+76 ⁹³ | | | 4.36 | 164.98 156.53 85 |
| +45 ⁹⁴ | | | 3.98 | 165.36 157.40 82 |
| 341+14 ⁶⁹ | | | 4.02 | 165.32 157.56 78 |
| 340+83 ⁶³ | | | 4.33 | 165.01 157.72 73 |
| +52 ⁵¹ | | | 4.31 | 165.3 157.88 72 |
| 340+21 ³⁹ | | | 4.45 | 164.89 158.04 69 |
| 339+90 ²⁸ | | | 4.40 | 164.94 158.2 67 |
| +59 ²³ | | | 3.93 | 165.41 158.36 71 |
| 339+28 ¹⁷ | | | 2.80 | 166.54 159.05 75 |
| 338+97 ⁰⁷ | | | 1.64 | 167.70 160.14 75 |
| +65 ⁹⁴ | | | 0.56 | 168.78 161.23 76 |
| IP | 6.35 | 175.13 | 0.56 | 169.78 |
| +34 ⁸¹ | | | 5.34 | 169.79 162.32 75 |
| 338+03 ⁷⁶ | | | 4.72 | 170.41 163.41 70 |
| 337+72 ⁶³ | | | 3.47 | 171.66 164.42 72 |

OCT. 5 1950

BONITA PIPELINE
6' offset GRADES (LEFT.)

| | | | | | | |
|-----------|------|--------|--------|--------|--------|-----|
| 337+41.59 | | 2.31 | 172.82 | 164.81 | 68° | |
| 337+11.40 | | 1.88 | 173.25 | 165.00 | 68° | |
| 336+80.28 | | 2.26 | 172.87 | 165.00 | 67° | |
| +50.46 | | 2.82 | 172.51 | 165.00 | 67° | |
| 336+20.56 | | 3.98 | 171.15 | 163.84 | 67° | |
| 335+90.68 | 0.89 | 170.39 | 5.68 | 169.45 | 162.28 | 67° |
| +60.80 | | 2.53 | 167.81 | 160.72 | 67° | |
| +30.92 | | 4.29 | 166.05 | 159.16 | 67° | |
| 335+01.04 | | 5.87 | 164.47 | 157.60 | 67° | |
| 334+71.14 | | 6.99 | 163.35 | 156.53 | 68° | |
| +41.24 | | 8.05 | 162.29 | 155.70 | 66° | |
| +11.33 | | 8.41 | 161.93 | 155.33 | 66° | |
| 333+81.50 | 400 | 165.79 | 8.55 | 161.79 | 155.15 | 66° |
| +57.58 | | 4.08 | 161.71 | 154.97 | 67° | |
| +21.66 | | 4.39 | 161.40 | 154.79 | 66° | |
| 332+91.26 | | 4.45 | 161.34 | 154.61 | 67° | |
| +61.82 | | 4.61 | 161.18 | 154.43 | 68° | |
| +31.90 | | 4.68 | 161.11 | 154.25 | 69° | |
| 332+01.98 | | 4.80 | 161.00 | 154.07 | 69° | |

Oct. 6, 1950

9.

BONITA PIPELINE

6' OFFSET GRADES (LEFT)

| | | | | | | |
|---|----------------------|-----------------|------|-----------------|--------|-----------------|
| 3 | 331+72 ¹⁷ | | 5.13 | 160.66 | 153.89 | C ⁶⁸ |
| 3 | +42 ²¹ | | 5.48 | 160.31 | 152.39 | C ⁷⁹ |
| 3 | +12 ³³ | | 5.60 | 160.19 | 150.90 | C ⁹³ |
| | 330+92 ³³ | | 6.02 | 159.77 | 150.90 | C ⁸⁹ |
| 3 | +77 ²⁵ | | 6.07 | 159.72 | 150.9 | C ⁸⁹ |
| 3 | +47 ²⁵ | 8.29 168.11 | 5.97 | 159.82 | 150.9 | C ⁸⁹ |
| | 330+17 ³⁴ | | 8.11 | 160.10 | 151.32 | |
| | 329+87 ⁴³ | | 7.56 | 160.55 | 151.74 | |
| 3 | +57 ⁵² | | 6.67 | 161.44 | 152.16 | |
| 3 | +27 ⁴⁶ | | 5.76 | 162.35 | 154.06 | |
| | 329+04 ⁸² | | 4.91 | 162.20 | 155.89 | |
| | 338+83 | | | | | |
| 3 | +89 ⁷⁸ | | 4.79 | 163.32 | 157.22 | |
| | +70 | | 0.92 | 167.19 | 159.30 | C ⁷⁹ |
| | 338+67.0 | | 2.35 | 165.76 | 159.37 | C ⁶⁴ |
| 3 | +67.0 | Bottom 28" pipe | 8.85 | 159.26 | | |
| | CK TBM | | 4.45 | 163.66 = 163.66 | | |

331+3021 6" CI. SEWER El. 156.06
 Bot. PIPE

REV. GRADE

151.4 C⁸⁶

152.2 C⁸⁴

153.1 C⁸³

155.5 C⁶⁹

157.4 C⁵⁸

Top 2" GAS El. 161.21

Top 6" TRANS WATER El. 158.53

158.7 C⁴⁶

} on dirt pile

Boat NAIL Intersection 45th & Hilltop

BONITA PIPELINE REPLACEMENT

6' OFFSET GRADE STAKES (LEFT)

| | | | | |
|-----------|------|--------|--------|-------------------|
| B.M. | 9.71 | 168.76 | 159.05 | |
| | | | 5.84 | 162.92 |
| 331+79.00 | | | 4.35 | 164.41 160.54 C39 |
| +59.74 | | | 4.00 | 164.76 160.6 C42 |
| 331+29.82 | | | 2.87 | 165.89 160.6 C53 |
| 330+99.90 | | | 2.68 | 166.08 160.6 C55 |
| +69.90 | | | 3.06 | 165.70 160.08 C56 |
| +40.09 | | | 3.47 | 165.29 159.12 C62 |
| 330+10.19 | | | 4.38 | 164.38 158.16 C62 |
| 329+80.29 | | | 5.09 | 163.67 157.2 C65 |
| +50.35 | | | 5.08 | 163.68 156.41 C73 |
| 329+26.55 | | | 5.29 | 163.47 156.11 C74 |
| 328+96.63 | | | 5.84 | 162.92 155.81 C71 |
| +60.71 | | | 7.61 | 161.15 155.51 C56 |
| +30.29 | | | 7.33 | 161.43 155.21 C63 |
| 328+00.87 | | | 7.40 | 161.36 154.91 C63 |
| 327+70.25 | | | 7.54 | 161.22 154.61 C66 |
| +41.03 | | | 8.00 | 160.76 154.31 C62 |
| +11.11 | 1.89 | 162.34 | 8.31 | 160.45 154.01 C64 |
| 326+81.19 | | | 1.92 | 160.42 153.71 C61 |

OCTOBER 11, 1950

BEATTY
LEONARD
BAKER

10.

TOP 28" PIPE. (160.55 Bot. pipe)

10/20/50

| | | |
|-----------------------|--------|--------|
| TOP 30" PIPE LAND | 159.05 | B.M. |
| | 7.68 | |
| | 166.73 | K. |
| | 8.51 | 8.37 |
| 329+2-Top pipe (30") | 157.22 | |
| 328+30-Top pipe (30") | | 158.36 |
| | 2.63 | 2.83 |
| | 155.59 | 155.52 |

Revised Grade: 10/18/50 (After Excav. of Trench)
 Due to Confiction of 6" TRANSITE WATER 328+26 Top Pipe 155.58
 8" VIT SEWER 327+184 Top Pipe 153.64
 1 1/2" GAS 328+76 " 158.31

| | |
|--------|-----|
| 156.61 | C71 |
| 156.41 | C71 |
| 156.21 | C62 |
| 156.01 | C51 |
| 155.81 | C56 |
| 155.51 | C59 |
| 155.09 | C61 |
| 154.57 | C61 |
| 154.25 | C62 |
| 153.83 | C66 |

10/11/50

BONITA PIPELINE REPLACEMENT
6' OFFSET GRADE STAKES (LEFT)
162.54

| | | | | |
|----------------------|-------|--------|--------|------|
| 326+51 ²⁷ | 1.84 | 160.50 | 153.41 | C7L |
| +46 ⁶⁶ | 1.89 | 160.45 | 152.88 | C76 |
| +26 ⁷⁸ | 2.55 | 159.79 | 149.81 | C102 |
| +21 ⁸⁹ | 2.72 | 159.62 | 149.50 | C10L |
| 326+01 ⁹⁷ | 3.77 | 158.57 | " | C9L |
| 325+72 ⁰⁵ | 3.76 | 158.58 | " | C9L |
| +42 ¹³ | 4.03 | 158.31 | " | C88 |
| 325+12 ²¹ | 2.40 | 157.94 | " | C84 |
| 324+82 ²⁹ | 4.84 | 157.50 | " | C82 |
| +52 ³⁷ | 5.28 | 157.06 | " | C76 |
| 324+22 ⁴⁵ | 5.76 | 156.58 | " | C7L |
| 323+92 ⁶² | 6.21 | 156.13 | " | C66 |
| +62 ⁷⁰ | 6.71 | 155.63 | 149.50 | C6L |
| +32 ⁷⁸ | 7.32 | 155.02 | 149.21 | C58 |
| 323+02 ⁸⁷ | 8.10 | 154.24 | 141.43 | C58 |
| 322+72 ⁹⁶ | 8.88 | 153.46 | 147.59 | C52 |
| +43 ⁰⁵ | 9.75 | 152.59 | 146.75 | C58 |
| 322+13 ¹⁴ | 10.58 | 151.76 | 145.91 | C59 |
| 321+83 ²³ | 11.27 | 151.07 | 145.07 | C62 |

11.

326+15 END GUNITE SECTION OF ORIG. PIPE

↑
Meas. 10/20/50

325+336 BEGIN GUNITE SECTION OF ORIG. PIPE

10/11/50

12.

BONITA PIPELINE REPLACEMENT

6' OFFSET GRADE STAKES (LEFT)

162.34

321+53³²

1181 150.53 144.23 C63

+23⁴¹

12.21 150.13 143.39 C67

320+93⁵⁰

12.54 149.80 142.55 C73

320+62⁰⁰

12.90 149.44 143.0 C6² 1

CK BM

3.28 159.06 = 159.05

10/11/50
10/13/50

BONITA PIPELINE

VALVE CHAMBER 367+74⁴⁰ - 367+83⁹⁹

HP
OK @ 367+81²² 6.14 172.45 166.31
6.63 172.41 663 165.82 = 165.78

⑤ NE Cor = 9⁶⁷ RT 367+74⁴⁰ 5.83 166.58 156.2 C¹⁰⁴

⑤ NW Cor = 9⁶⁷ RT 367+83⁹⁹ 5.02 167.39 156.0 C¹¹⁴

⑤ SW Cor = 9⁶⁷ LT 367+83⁹⁹ 6.96 165.45 155.70 C⁹²

⑤ SE Cor = 9⁶⁷ LT 367+74⁴⁰ 7.57 164.84 156.10 C⁸¹

HP 2.30 168.88 166.58

③ NE Cor 9⁶⁷ RT 367+74⁴⁰ 2.34 166.54 155.70 C¹⁰⁸

③ NW Cor 9⁶⁷ RT 367+83⁹⁹ 1.70 167.18 156.05 C¹¹¹

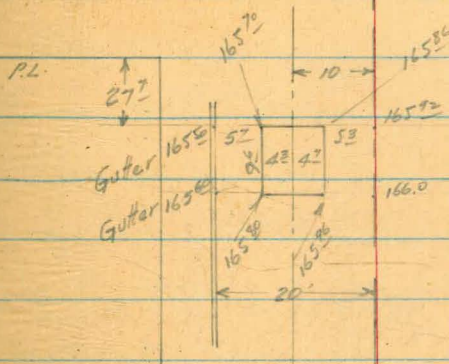
③ SW Cor 9⁶⁷ LT 367+83⁹⁹ 3.42 165.46 156.15 C⁹²

③ SE Cor 9⁶⁷ LT 367+74⁴⁰ 4.03 164.85 156.0 C⁸¹

CKP 2.60 166.28 = 166.31

OCT. 23 1950 13.
Booby
Leonard

39th



FIN GRD - Top of Box

HP 5.73 172.26 166.53 City Datum

NE Cor 5.99 166.27 165.96 C³¹

NW Cor 5.35 166.91 165.86 C¹⁰⁵

SW Cor 7.06 165.20 165.70 F⁵⁰

SE Cor 7.67 164.59 165.80 F²¹

OCTOBER 19 1950

14.

Bonita Pipeline.
6' offset GRADE STAKES

| | | | | |
|----------------------|-------|--------|--------|------------------|
| TBM | 4.79 | 161.64 | 156.85 | |
| 233+00 ⁵³ | | 6.05 | 155.59 | 150.40 149.40 |
| 232+70 ⁵³ | | 5.76 | 155.88 | 150.40 149.30 |
| +20 ⁶¹ | | 5.10 | 156.54 | 150.40 149.60 |
| 232+10 ⁷⁵ | | 3.35 | 158.29 | 151.60 |
| 231+80 ⁹⁰ | | | 159.36 | 152.80 |
| +51 ⁰¹ | | | 163.49 | 153.50 |
| TBM | 12.07 | 168.92 | 156.85 | |
| 231+21 ¹⁸ | | 8.62 | 160.30 | 154.20 |
| 230+91 ²⁸ | | 7.39 | 161.53 | 155.17 |
| +61 ⁴⁴ | | 5.00 | 163.92 | 157.25 |
| +31 ⁵⁶ | | 2.62 | 166.30 | 157.92 |
| FD | 13.22 | 182.10 | 0.04 | 168.88 |
| 230+01 ⁶⁵ | | 14.10 | 168.00 | 158.49 |
| 229+81 ⁷⁴ | | 13.35 | 168.75 | 158.87 |
| +71 ⁸⁷ | | 13.20 | 168.90 | 159.34 |
| +42 ²⁸ | | 11.10 | 171.00 | 164.22 |
| 229+12 ⁶³ | | 8.65 | 173.45 | 166.56 |
| 228+82 ⁸⁹ | | 7.80 | 174.30 | 168.91 |
| +53 ⁰⁷ | | 5.38 | 176.72 | 171.27 |
| FD | 12.55 | 191.30 | 0.35 | 181.75 |
| OR BM | | 12.13 | 182.17 | = 182.12 |

on curb 24' RT 233+03'

(R.P. CHG (X) 40' RT & P.D.F. & 80' RT & P.D.F.)

Top 8" CI WATER EL 150.40 STA. 232+81.5
Top 2" GAS EL 154.00 STA. 232+99

TBM 156.85
9.15
166.00

REVISED GRADE 10/26/50
DUE TO CONFLICTION WITH
8" WATER
EXCAVATION TO ORIG. GRADE
COMPLETED TO 233+23

STAKED 6" off RIGHT
STAKED 6" off LEFT

(59' RT)

FINE GRID & EXCAV TO 231+81
PREVIOUS TO GRADE CHANGE

155.9 °56

157.9 °62

158.6 °77

on curb

No change Replaced @ STK C93

158.45 °90³ (Replaced @ STK C93)

159.5 °91 Replaced Grade Stakes 10/27/50

11.22 171.00 °68

8.12 174.14 °76

6.17 176.05 °71

7.01 180.33 °77

GRADE CHANGE
10/30/50

GRADE CHANGE 10/31/50

171.70 °85

on FH

Top FH. NE Cor Orange & Santa Isabel

6.64
159.36
152.80
152.80

2.51
165.49
158.50
16.0

32.0
162.80
164.20
21.60

182.17 BM
182.24

10-20-50

Oct. 31 1950

15

Bonita Pipeline
6' Offset Grade Stakes

| | | | | | | |
|----------------------|-------|--------|--------|--------|---------|-----|
| 228+23 ⁵² | | 10.85 | 183.45 | 189.6 | C75 | |
| 228+05 ⁸⁴ | | 10.94 | 183.36 | 197.12 | C72 | |
| 227+79 ⁴² | | 10.54 | 183.76 | 192.39 | C64 | |
| +49 ³⁰ | | 6.81 | 187.49 | 180.91 | C75 | |
| 227+19 ⁵¹ | | | 189.05 | 182.80 | C63 | |
| 226+89 ²³ | | | 190.76 | 185.59 | C52 | |
| P +59 ⁹³ | 13.13 | 207.28 | 0.15 | 192.15 | 188.38 | C58 |
| +30 ¹² | | | 9.70 | 197.58 | 190.88 | C67 |
| +00 ³⁹ | | | 7.35 | 199.95 | 193.38 | C66 |
| 225+70 ⁵⁸ | | | 5.55 | 201.73 | 195.88 | C59 |
| U | 7.00 | 211.27 | 3.01 | 204.37 | | |
| +40 ⁷³ | | | 6.67 | 204.60 | 197.89 | C77 |
| 225+10 ⁹⁴ | | | 6.96 | 204.31 | 198.41 | C59 |
| 224+91 ⁰² | | | 6.91 | 204.76 | 198.94 | C56 |
| +61 ¹⁹ | | | 4.32 | 206.95 | 200.98 | C62 |
| +31 ³² | | | 2.93 | 208.34 | 202.70 | C56 |
| +14 ⁰⁹ | | | 3.11 | 208.16 | 203.37 | C48 |
| SET TBM | | | 118 | 210.09 | | |
| CK BM | | | 102 | 210.25 | -210.20 | |
| 224+07 ⁴¹ | | | | 208.06 | 203.37 | C47 |
| 223+99 ⁴⁹ | | | | 208.06 | 203.60 | C42 |

GRADE CHANGE 10/31/50

| | |
|----------------------|--------|
| 6.55 | 188.72 |
| Top 8" CI. Waterline | 10.10 |
| STA 227+89 | |
| Top Conc. Vault | 5.44 |
| Top Conc. Sewer | 12.91 |
| 176.3 | C72 |
| 177.6 | C58 |
| 178.3 | C55 |
| 180.3 | C72 |

GRADE CHANGE 10/31/50

| | |
|--------|-----------|
| 176.8 | C62 |
| 178.2 | C52 |
| 179.10 | C47 |
| 180.7 | C68 |
| 183.0 | C61 |
| 182.17 | |
| 178.62 | |
| 183.28 | (227+89) |
| 175.81 | (228+125) |

NEW PIPE TO OFFSET LINE

Set 10/31/50

Nov. 1 1950
REV GRADE

Nov. 2
REV GRADE

| | |
|-------|-----|
| 195.3 | C64 |
| 196.8 | C78 |
| 197.6 | C70 |
| 198.8 | C75 |
| 198.1 | C62 |
| 198.8 | C76 |
| 198.5 | C59 |

224+95 6" CI. Water. Top pipe El 200.39
224+95 Top Conc Vault 204.30
225+06 6" Conc. Sewer. Top 6" Conc pipe 197.69
199.2 C72

202.5 C58

204.31
6.19
210.50
10.11
200.39

198.2
197.7
5

Top. Air Valve

Top. FH Bonita De. & Santa Isabel

OCT. 23, 1950
BEATTY
LEONARD

16.

| | | | |
|----------------------|-------|--------|------------------------------------|
| TBM | 12.03 | 168.88 | 156.85 |
| | 8.59 | 175.77 | 1.69 167.18 |
| 233+20 ³⁸ | | | 163.75 +51.04 51.27 |
| +30 ¹⁷ | | | 6.13 169.64 452.59 C171 |
| +59 ⁶⁵ | | | 7.00 168.77 157.66 C111 |
| +79 ²⁹ | | | 7.22 168.55 159.47 C91 |
| +89 ⁰¹ | | | 7.12 168.63 159.60 C90 |
| 234+18 ⁹³ | | | 7.95 167.82 159.60 C82 |
| CK TBM | | | 6.42 169.35 = 169.33 |
| +48 ⁸⁵ | | | 9.02 166.75 159.60 C72 |
| +78 ⁶⁸ | | | 10.10 165.67 159.60 C61 |
| 235+08 ⁶⁰ | | | 10.15 165.62 159.80 C58 |
| +38 ⁴⁹ | | | 8.86 166.91 160.99 C59 |
| +68 ²⁹ | | | 6.96 169.81 163.60 C52 |
| +98 ⁰³ | | | 5.87 169.90 162.23 C52 |
| 236+27 ⁹⁵ | | | 5.66 170.11 164.46 C52 |
| +57 ⁸⁶ | | | 5.36 170.41 163.18 C53 |
| +87 ⁷⁵ | | | 4.36 171.41 166.40 C50 |
| 237+17 ⁶⁴ | | | 3.24 172.59 167.62 C49 |
| +27 ⁴⁶ | | | 1.55 174.22 167.86 C64 |

(29.14)

REV. GRADE 10/27/50

154.85
6.9
169.75

(on edge of bank) 151.90 C112

152.40 C162

Nail in Pole

REVISED GRADE Nov. 1, 1950

161.2 C57

164.0 C48

164.1

164.6 C53

164.7 C54

235+71.5 Top 6" C.I. Water 163.60

10/23/50

17.

81.80
29.90
11.71

175.77

| | | | | | | |
|------------------------|-------|--------|--------|--------|--------|-----|
| 237+77 ¹⁸ | | 1.42 | 174.35 | 168.10 | C63 | |
| 238+06 ⁸⁴ | | 1.31 | 174.46 | 166.00 | C85 | |
| +36 ³⁴ | | 2.22 | 173.55 | 161.74 | C118 | |
| H +65 ⁸⁰ | 0.17 | 164.58 | 11.36 | 164.41 | 156.53 | C79 |
| +95 ²⁶ | | 6.65 | 157.93 | 151.32 | C66 | |
| H 239+24 ⁷² | 0.90 | 152.59 | 12.89 | 151.69 | 146.11 | C56 |
| +54 ²⁵ | | 5.49 | 147.10 | 141.35 | C58 | |
| +69 ¹¹ | | 7.42 | 145.17 | 140.09 | C51 | |
| +84 ⁰³ | | 9.30 | 143.29 | 140.00 | C33 | |
| 240+14 ⁰³ | | 13.60 | 138.99 | 140.00 | F10 | |
| +43 ⁹⁴ | | 8.30 | 144.79 | 140.50 | C38 | |
| H +73 ⁷² | 12.73 | 165.29 | 2.01 | 150.58 | 143.34 | C92 |
| 241+03 ²⁹ | | 6.68 | 158.61 | 147.87 | C107 | |
| +32 ⁹³ | | 5.00 | 160.29 | 151.90 | C84 | |
| H +62 ⁴⁹ | 10.78 | 175.20 | 0.87 | 164.42 | 155.93 | C85 |
| H +91 ⁷³ | 12.71 | 187.60 | 5.40 | 169.80 | 162.28 | C95 |
| 242+20 ⁹⁴ | | 11.68 | 175.92 | 168.76 | C92 | |
| +50 ³⁶ | | 8.54 | 179.06 | 173.15 | C69 | |

238+12 WATER TRANS. SEWER EL. 170.50 TOP PIPE.

Top Curb Near Side

10/23/50

18.

| | | | | | | | |
|----------------------|------|--------|-------|--------|--------|------|--|
| | | 187.60 | | | | | |
| 242+80 ⁰¹ | | | 6.90 | 180.70 | 175.22 | C55 | |
| 243+09.82 | | | 5.39 | 182.21 | 176.26 | C60 | |
| +39.22 | | | 3.87 | 183.73 | 177.30 | C64 | |
| +69.46 | | | 2.05 | 185.55 | 180.54 | C50 | |
| HP 244+99.16 | 1.14 | 186.93 | 1.81 | 185.79 | 181.43 | C47 | |
| 244+28.43 | | | 3.52 | 183.41 | 177.63 | C58 | |
| +49.09 | | | 7.78 | 179.15 | 174.15 | C50 | |
| HP 244+176.49 | 0.43 | 174.03 | 13.33 | 173.60 | | | |
| +85.86 | | | 2.21 | 171.82 | 162.92 | C89 | |
| 245+00.29 | | | 4.42 | 169.59 | 159.66 | C99 | |
| +14.97 | | | 7.23 | 166.80 | 155.88 | C99 | |
| HP 245+44.74 | 0.67 | 163.12 | 9.66 | 164.37 | 159.25 | C112 | |
| +74.63 | | | 11.58 | 162.45 | | | |
| 246+04.55 | | | 4.26 | 158.86 | 150.29 | C86 | |
| +34.47 | | | 5.90 | 157.22 | 148.98 | C82 | |
| +64.30 | | | 5.70 | 157.42 | 148.87 | C86 | |
| +94.22 | | | 5.85 | 157.27 | 148.76 | C85 | |
| 247+24.14 | | | 6.40 | 156.72 | 148.65 | C81 | |
| +54.06 | | | 7.33 | 155.79 | 148.54 | C73 | |
| | | | 8.09 | 155.03 | 148.43 | C66 | |
| | | | 8.78 | 154.94 | 148.32 | C60 | |

(Cont'd pg 24 This Book)

Nov. 8, 1950
DEATHY
LEARNED

✓ CUT IN ERROR

(Check made 11/21/50
Because pipe wouldn't fit.)84
11 31
12.15

OCT. 23 1950
BEATTY
LEONARD

19

2" AV. 352+15 IN CHAMBER

| | | | | | |
|----|-----|------|--------|--------|--|
| 24 | DM. | 5.77 | 163.37 | 157.60 | |
| 24 | | 5.13 | 158.24 | 158.07 | |

CITY
DATUM
P.V. SW
COR.
MORRISON
FO17

MORRISON



PIDESTA. 352+15

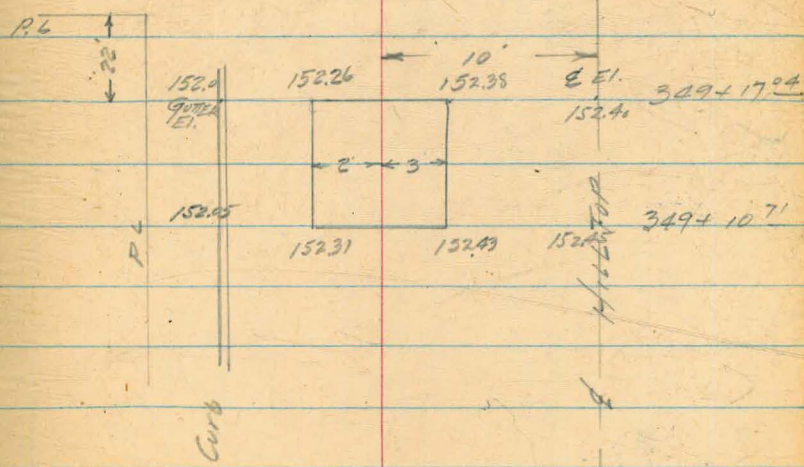
HILLTOP

| | |
|---------------------------|---------------------------|
| LT. | RT |
| FIN GRD 158.10 | FIN GRD 158.07 |
| | FIN GRD 158.04 |

22nd

FIN. GRD. TOP 20" MANHOLE IN CHAMBER
349+10.71 - 349+17.04

| | | | | | |
|----|--------|-------|--------|--------|-----------------|
| 24 | DM. | 10.10 | 163.04 | 152.94 | |
| | NE COR | 10.08 | 152.96 | 152.43 | C ²⁰ |
| | NW COR | 9.51 | 152.53 | 152.38 | C ¹⁵ |
| 24 | SW COR | 10.45 | 152.59 | 152.26 | C ²⁰ |
| | SE COR | 10.45 | 152.59 | 152.31 | C ²⁸ |



OCT. 25, 1950

BEATTY
LEONARD

30

360+773 - 360+836

FIN GRD Top, 20" MANHOLE IN CHAMBER

BR SW
COR 40 TH
CITY EXTEND

STA
361+9.60

40 TH

| | | | | |
|--------|------|--------|--------|-----------------|
| BM | 5.66 | 185.74 | 180.08 | |
| NE COR | 6.50 | 179.24 | 179.83 | F ⁵⁹ |

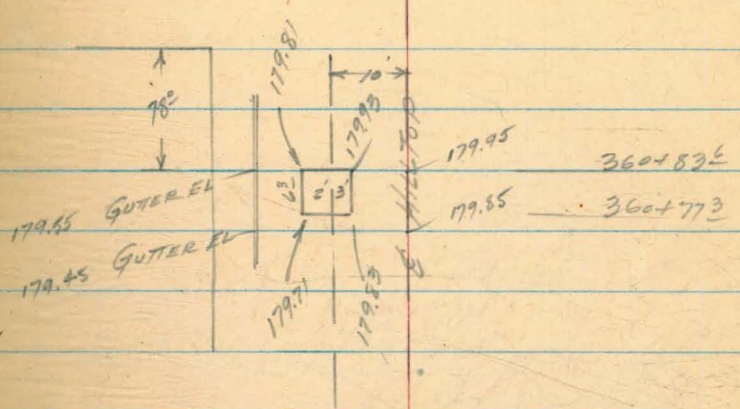
| | | | | |
|--------|------|--------|--------|-----------------|
| NW COR | 6.32 | 179.42 | 179.93 | F ⁵¹ |
|--------|------|--------|--------|-----------------|

| | | | | |
|--------|------|--------|--------|-----------------|
| SW COR | 6.18 | 179.56 | 179.81 | F ²⁵ |
|--------|------|--------|--------|-----------------|

| | | | | |
|--------|------|--------|--------|-----------------|
| SE COR | 6.23 | 159.51 | 179.71 | F ²⁰ |
|--------|------|--------|--------|-----------------|

| | | | | |
|--------------|-------|--------|--|--|
| Top of Cover | 11.30 | 174.04 | | |
|--------------|-------|--------|--|--|

OK. BM.



360+836

360+773

10/24/50

21

STA 337+0590 to 337+1220 ✓
20" MANHOLE in Chamber

| | | | | |
|------|------|--------|--------|---|
| B.M. | 5.60 | 175.82 | 170.22 | |
| | 7.60 | 168.22 | 172.40 | F _{4.15} painted on top M.H. Cover |
| | 2.70 | 173.12 | | |

STA 355+333 to 355+395 ✓
20" MANHOLE in Chamber

| | | | | |
|------|------|--------|--------|---|
| B.M. | 5.16 | 157.06 | 151.90 | |
| | 9.39 | 147.67 | 152.00 | F _{4.33} painted on top M.H. Cover |
| | 4.0 | 153.1 | | Average ground |

| | |
|--------|----------------|
| 151.90 | B.M. |
| - 5.82 | |
| 157.72 | N ₆ |
| 5.72 | |
| 152.00 | |

STA 355+333 = 215' W of E Prop line 4.5'

4" DIA in PIPE Chamber ✓
STA 331+0982

| | | | | |
|----|------|--------|--------|-------------------|
| TP | 5.95 | 171.84 | 165.89 | ⑥ 331+2952 |
| | 5.45 | 166.39 | 167.50 | F _{1.11} |

| | | | | |
|-------|------|--------|----------|-----------|
| OK TP | 5.75 | 166.09 | = 166.08 | ⑥ 330+999 |
|-------|------|--------|----------|-----------|

10/25/50

22

STA 370+68.50 To 370+74.80

FIN GRD Top 20" MH in Chamber

B.M. 12.37 178.90

166.53

BP SW
Cor 39%

8.57 170.33 174.50 F4²

Painted on Top MH

2.80 176.10

Average ground

Oct. 30 1950

23

Bonita Replacement

Elev of Conflicting Sewer lines

TP 7.40 166.25 156.85

230+72.5 7.16 157.09

230+56.5 3.80 160.45

230+53.5 6.87 157.38

TP 3.42 174.42 171.00

229+85 12.14 162.28

Top 8" Con Sewer 164.25

Bottom 4" Sewer lateral 153.91

Top of Bell 8" Con SEWER 15 RT 163.92

Top 8" Conc Sewer 12 RT

Nov. 6, 1950

BETTY
LEONARD

24

BONITA PIPELINE REPLACEMENT

⑥ OFF SET GRADE STAKES

| | | | | | |
|------------------------|--------|--------|-------|-----------------|--------------|
| | 163.12 | | | | |
| 247+83 ⁹⁸ | | | 9.69 | 153.43 | 141.22 C52 |
| 248+137 ⁶ | | | 11.05 | 152.07 | 146.10 C40 |
| +28 ⁴⁶ | | | 11.80 | 151.32 | 142.22 C41 |
| P +43 ⁰⁴ | 0.39 | 150.57 | 12.94 | 150.18 | 145.73 C50 |
| +62 ⁵⁰ | | | 3.02 | 147.55 | 140.99 C66 |
| +92 ⁰⁴ | | | 7.95 | 142.62 | 135.00 C76 |
| 249+22 ⁰⁴ | | | 8.56 | 142.01 | 135.00 C70 |
| CK TBM | | | 6.80 | 143.77 = 143.77 | on Conc Plat |
| +25 ¹⁸ | | | 8.16 | 142.41 | 135.00 C74 |
| +51 ⁶⁰ | | | 3.16 | 147.41 | 139.50 C78 |
| P +80 ⁶¹ | 12.97 | 163.41 | 0.13 | 150.44 | |
| | | | 10.49 | 152.92 | 145.73 C62 |
| +95 ¹¹ | | | 8.10 | 155.31 | 149.77 C68 |
| 250+09 ⁷⁶ | | | 6.48 | 156.93 | 150.67 C63 |
| +29 ⁴⁸ | | | 5.49 | 157.92 | 151.00 C69 |
| +59 ⁴⁰ | | | 4.31 | 159.10 | 151.00 C81 |
| +89 ²³ | | | 2.76 | 160.65 | 153.33 C73 |
| P 251+18 ⁹⁷ | 11.69 | 174.90 | 0.20 | 163.21 | |
| | | | 10.68 | 164.22 | 156.79 C74 |
| +48 ⁶⁹ | | | 7.26 | 167.64 | 157.91 C97 |
| +60 ⁵¹ | | | 6.90 | 168.00 | 158.05 C100 |

Nov 6 1950

25

BONITA PIPELINE REPLACE M/T

| | | | | | |
|----------------|--------|-------|-----------------|--------|------|
| 251+90.43 | 174.90 | 5.93 | 168.97 | 158.50 | C105 |
| 252+20.25 | | 5.44 | 169.46 | 158.95 | C105 |
| +50.27 | | 5.00 | 169.90 | 159.40 | C105 |
| +80.10 | | 6.16 | 168.74 | 159.85 | C89 |
| CK 71) | 9.87 | 4.64 | 170.26 = 170.26 | | |
| 253+10.91 | | 11.60 | 168.53 | 160.87 | C79 |
| +39.88 | | 8.95 | 171.18 | 162.28 | C89 |
| +69.75 | | 4.06 | 176.07 | 163.99 | C121 |
| 71) | 12.41 | 0.84 | 179.29 | | |
| +99.62 | | 9.52 | 182.18 | 165.70 | C165 |
| 357 71) on 400 | | 3.68 | 188.02 | | |
| 254+19.37 | | | | 168.30 | |
| +38.93 | | | | 172.08 | |
| +58.53 | | | | 174.28 | |
| +78.24 | | | | 174.94 | |
| 255+02.06 | | | | 182.10 | |
| +21.91 | | | | 183.92 | |
| +51.63 | | | | 184.31 | |
| +81.43 | | | | 184.70 | |
| 256+11.33 | | | | 182.70 | |
| +41.23 | | | | 185.70 | |

Nail in Cathodic Sta. Pole

Nov. 12, 1950

| | |
|--------|--------|
| | 183.18 |
| | 12.51 |
| 74.07 | 174.69 |
| 1.00 | 2.8 |
| 193.59 | 91.9 |
| 6.31 | 73.2 |
| 95.90 | 18.7 |
| 55 | |
| 54.6 | |
| 82.1 | 79.7 |
| 12.5 | |
| 94.1 | 99.9 |
| 84.3 | 7 |
| | 92.9 |
| | 84.1 |

Nov. 10, 1950

| | | | | | |
|-----------------------|------|--------|--------|--------|------------------------|
| BM | 1.52 | 226.92 | 225.40 | | |
| 205+10 ⁵⁰ | | | 1.79 | 225.13 | 218.4 ⁶⁷ ✓ |
| 204+9 ⁶²⁵ | | | 2.76 | 224.16 | 217.9 ⁷¹ ✓ |
| +66 ⁵⁴ | | | 7.68 | 219.24 | 212.74 ⁶⁵ ✓ |
| +56 ⁶⁵ | | | 9.22 | 217.70 | 211.30 ⁶⁴ ✓ |
| +52 ⁴⁵ | | | 9.84 | 217.08 | 210.68 ⁶⁴ ✓ |
| IP + 37 ⁷⁸ | 0.92 | 215.24 | 12.50 | 214.42 | 208.54 ⁵⁹ ✓ |
| TD | 0.92 | 215.34 | 12.50 | 214.42 | |

BR Tag on East Row line of Division St.

11/10/50

27

215.34

| | | | | | | |
|----------------------|------|--------|--------|--------|-----|---|
| 204+08 ²⁴ | | 5.70 | 209.64 | 203.09 | C66 | ✓ |
| 203+78 ⁹³ | | 11.78 | 203.56 | 197.68 | C54 | ✓ |
| TP | 0.80 | 203.13 | 13.01 | 202.33 | | |
| +49 ⁹⁷ | | 5.58 | 197.55 | 191.0 | C66 | ✓ |
| +21 ⁴⁴ | | 11.14 | 191.99 | 181.99 | C90 | ✓ |
| 202+98 ⁰ | | 13.61 | 189.52 | 181.9 | C76 | ✓ |
| +88 ²⁰ | | 12.48 | 190.65 | 183.39 | C73 | ✓ |
| +58 ⁶² | | 7.65 | 195.48 | 187.88 | C76 | ✓ |
| +29 ⁰⁴ | | 2.60 | 200.53 | 192.37 | C82 | ✓ |
| H | 6.64 | 209.66 | 0.11 | 203.02 | | |
| 201+99 ⁴² | | 5.79 | 203.87 | 196.08 | C78 | ✓ |
| +79 ⁷² | | 3.70 | 205.96 | 197.0 | C92 | |
| +49 ⁹⁹ | | 3.99 | 205.67 | 197.0 | C82 | |
| +20 ⁰⁸ | | 4.08 | 204.86 | 197.0 | C79 | |
| 200+90 ¹⁶ | | 6.08 | 203.58 | 197.0 | C66 | |
| +60 ²⁵ | | 8.81 | 200.85 | 197.0 | C39 | |
| +30 ³³ | | 11.54 | 198.12 | 197.0 | C11 | |
| +00 ⁴¹ | | 9.56 | 200.10 | 197.0 | C31 | |
| 199+70 ⁵⁰ | | 3.97 | 205.69 | 197.0 | C82 | |

CHECK MADE ON PIPE
AS LAYED

11/29/50

Top Pipe 185.01
Bot " 182.18 0.19 highTop Pipe 185.20
Bot " 182.27 0.47 highTop Pipe 186.14
Bot " 183.21 0.05 lowTop Pipe 190.51
Bot " 187.68 0.2 low

VOID

11/10/50

28

| | | | | |
|----------------------|--------|--------|--------|-------------------|
| | 209.66 | | | |
| 199+60 ²⁶ | | 1.80 | 207.86 | 198.53 C93 |
| IP | 11.59 | 220.07 | 0.18 | 208.48 |
| +30 ⁹³ | | 6.35 | 213.72 | 203.94 C93 |
| +01 ⁵⁷ | | 3.17 | 216.90 | 207.12 C93 |
| 198+71 ⁷⁸ | | 0.50 | 219.57 | 209.14 C94 |
| IP | | 2.44 | 217.63 | |
| | 4.87 | 208.74 | 203.87 | |
| 201+79 ⁷² | | 3.28 | 205.46 | 197.0 C85 |
| +49 ⁹⁹ | | 2.80 | 205.94 | 197.0 C89 |
| +20 ⁰⁸ | | 3.74 | 205.40 | 197.0 C84 |
| 200+90 ¹⁶ | | 4.52 | 204.22 | 197.0 C78 |
| +60 ²⁵ | | 6.69 | 202.05 | 197.0 C51 |
| +30 ³³ | | 9.71 | 199.03 | 197.0 C20 |
| +00 ⁴¹ | | 9.61 | 199.13 | 197.0 C21 |
| 199+70 ⁵⁰ | | 5.04 | 203.70 | 197.0 C62 |
| IP +60 ³⁶ | 13.44 | 219.15 | 3.03 | 205.71 198.53 C92 |
| +30 ⁹³ | | | 7.31 | 211.84 203.94 C79 |
| +01 ³⁷ | | | 2.78 | 216.37 207.12 C93 |
| 198+71 ⁷⁸ | | | 1.28 | 217.87 209.14 C82 |
| IP | | | 1.54 | 217.61 |

VOID

3/4" Prop. Cor. C Road

Nov. 16, 1950
 BETTY
 WELKER

3/4" Prop. Cor. 6'-LT 198+80⁸²

Nov. 17 1950
BEATTY
WELKER

29

| | | | | | |
|------------|------|--------|------------------|--------|-------|
| 1977 | 9.00 | 226.61 | 217.61 | | |
| 198 + 4194 | | 5.56 | 221.05 | 211.19 | C99 ✓ |
| + 1213 | | 5.05 | 221.56 | 211.99 | C96 ✓ |
| 197 + 8233 | | 5.35 | 221.26 | 212.80 | C85 ✓ |
| + 5242 | | 4.71 | 221.90 | 212.80 | C91 ✓ |
| + 2268 | | 4.80 | 221.81 | 212.80 | C90 ✓ |
| 196 + 9246 | | 4.55 | 222.06 | 212.80 | C93 ✓ |
| + 6275 | | 4.34 | 222.27 | 212.80 | C95 ✓ |
| + 3223 | | 4.95 | 221.66 | 212.80 | C88 ✓ |
| + 0299 | | 5.85 | 220.76 | 212.80 | C82 ✓ |
| 195 + 7308 | | 7.25 | 219.36 218.36 | 212.80 | C56 ✓ |
| + 4316 | | 8.81 | 217.80 | 212.80 | C50 ✓ |
| + 1324 | | 9.16 | 217.45 | 212.80 | C46 ✓ |
| 194 + 8333 | | 8.60 | 218.01 | 212.80 | C52 ✓ |
| + 5341 | | 7.43 | 219.18 | 212.80 | C64 ✓ |
| + 2349 | | 5.95 | 220.66 | 212.80 | C79 ✓ |
| 193 + 9358 | | 5.01 | 221.60 | 212.80 | C88 ✓ |
| + 6366 | | 5.05 | 221.56 | 212.80 | C88 ✓ |

11/17/50
11/27/50

226.61

| | | | | | | | |
|----------|------|--------|--------|-----------------|--------|-----|---|
| 193+3374 | | 5.47 | 221.14 | 212.80 | C83 | ✓ | |
| +0382 | | 6.25 | 220.36 | 212.80 | C76 | ✓ | |
| CK TBM | 3.39 | 219.21 | 10.79 | 215.82 = 215.82 | | | |
| 192+7397 | | 0.00 | 219.21 | 212.80 | C64 | ✓ | |
| +4412 | | 1.63 | 217.58 | 212.04 | C55 | ✓ | |
| +1425 | | 3.56 | 215.65 | 210.26 | C54 | ✓ | |
| 191+8429 | | 5.11 | 214.10 | 208.47 | C56 | ✓ | |
| +5260 | | 6.62 | 212.59 | 206.69 | C59 | ✓ | |
| +2427 | | 7.80 | 211.41 | 204.12 | C73 | ✓ | |
| 190+9501 | | 10.24 | 208.97 | 201.30 | C77 | ✓ | |
| D +6522 | 0.00 | 205.97 | 13.24 | 205.97 | 198.49 | C75 | ✓ |
| +3560 | | 3.46 | 202.51 | 195.07 | C74 | ✓ | |
| +0595 | | 6.81 | 199.16 | 191.16 | C80 | ✓ | |
| 189+7631 | | 10.86 | 195.11 | 187.25 | C79 | ✓ | |
| D +4667 | 0.08 | 192.89 | 13.16 | 192.81 | | | |
| | | 1.67 | 191.22 | 183.14 | C81 | ✓ | |
| +1704 | | 5.82 | 187.07 | 179.09 | C80 | ✓ | |
| 188+8740 | | 10.17 | 182.72 | 174.92 | C78 | ✓ | |
| D +5767 | 0.01 | 179.93 | 12.97 | 179.92 | | | |
| | | 0.77 | 179.16 | 171.64 | C75 | ✓ | |
| +2793 | | 4.36 | 175.57 | 168.27 | C72 | ✓ | |

NAIL IN GUY pole
SW Cor. of the ST.

11/27/50 BEATTY WALKER

179.93

187+98¹⁹ 7.86 172.07 165.10 C70 ✓

+6846 11.07 168.86 161.82 C70 ✓

W 0.29 167.37 12.85 167.08

+3822 1.21 166.16 158.55 C70 ✓

+0826 3.72 163.65 156.29 C72 ✓

186+79¹² 6.75 160.62 154.22 C64 ✓

P +4922 0.16 158.16 9.37 158.00 152.06 C52 ✓

+1943 2.26 155.90 150.2 C52

185+8957 4.32 153.80 148.34 C55

+5921 6.28 151.88 146.48 C51

+2985 7.70 150.46 144.61 C59

184+9997 9.20 149.96 143.16 C58

+7009 10.61 149.55 141.71 C58

+4026 11.86 148.90 140.26 C60 EAST

W 0.09 145.91 12.37 145.84 140.26 C56 WEST

+1043 12.32 145.82 138.32 C63 EAST

183+8058 1.29 144.62 138.32 C61 WEST

+5022 1.53 144.38 138.32 C61

+2685 3.10 142.81 136.38 C64

+5022 5.67 140.24 134.44 C58

+2685 7.74 138.17 132.82 C54

182+9028 9.18 136.73 131.19 C55

186+49.29
 72.20
 185+76.59

77.18
 24.59
 14.39

186+60
 186+50

Nov 29 1950

32

| | | | | |
|-----------------|--------|--------|-----------------|------------------------------|
| | 145.91 | | | |
| 152+614 | | 10.63 | 135.28 | 129.56 C57 |
| +3121 | | 11.80 | 134.11 | 128.38 C57 |
| 150+0122 | 2.56 | 135.75 | 12.72 | 133.19 127.30 C59 |
| 181+7142 | | 3.43 | 132.32 | 126.11 C62 |
| +4153 | | 4.47 | 131.28 | 124.93 C64 |
| +1120 | | 4.98 | 130.77 | 124.51 C62 |
| 180+8128 | | 5.56 | 130.19 | 124.20 C60 |
| +5191 | | 5.81 | 129.94 | 124.20 C57 |
| +2211 | | 6.04 | 129.71 | 123.49 C62 |
| 179+9246 | | 6.01 | 129.74 | 121.34 C84 |
| +6287 | | 6.26 | 129.49 | 116.88 C782 |
| +60 | | 6.32 | 129.43 | 116.50 C722 |
| +5306 | | 7.02 | 128.72 | 116.5 C722 |
| +2315 (16 long) | | 7.07 | 128.68 | 116.5 C722 |
| CK BM 4.50 | 133.09 | 7.16 | 128.59 = 128.59 | ! Obs II on Conc Drain Ditch |
| +20 | | 4.44 | 128.65 | 116.5 122 |
| +1619 | | 4.35 | 128.74 | 117.09 912 |
| 178+9652 | | 3.97 | 129.12 | 120.16 C90 |
| +950 | | 3.98 | 129.11 | 120.4 C87 |
| +8281 | | 3.87 | 129.22 | 120.4 C88 |
| CK BM | | 4.50 | 128.59 | |

3.26
16.19
17.27
15.40

Profile (B) Bonita Pk.

King
Baker
West

12-18-50

33

| | | | | | | |
|----------|------|--------|-------|---------------------------|-------|-------------------------|
| T.B.M. | 9.02 | 197.02 | | | 188.0 | |
| 25643143 | | | 9.3 | 187.7 | 182.7 | 5.0 |
| +1133 | | | 6.7 | 190.3 | 183.7 | 6.6 |
| 25548118 | | | 2.5 | 194.5 | 184.7 | 9.8 |
| +5163 | | | 2.1 | 194.9 | 184.3 | 10.6 |
| +2191 | | | 3.7 | 193.3 | 183.9 | 9.4 |
| +6266 | | | 5.4 | 191.6 | 182.1 | 9.5 |
| 2547784 | | | 7.8 | 189.2 | 174.9 | 14.3 |
| +5863 | | | 10.4 | 186.6 | 174.3 | 12.3 |
| T.P. | 1.20 | 187.87 | 10.35 | 186.67 | | |
| 25473893 | | | 4.2 | 188.7 | 172.1 | 11.6 |
| +193 | | | 7.0 | 180.9 | 148.3 | 12.6 |
| 2547996 | | | 9.5 | 179.4 177.4 | 165.7 | 12.7 11.7 |
| 2537697 | | | 12.4 | 175.5 | 164.0 | 11.5 |
| 25373980 | | | 14.5 | 173.4 | 162.3 | 11.1 |

For top H.V. Box

T.B.W.

189.0

Top H.V. Flange

Tentative gr

191.1

✓

GRADES SET FOR WATER METERS
59th ST.
KENWOOD TO BROOKLYN

AUG. 27 1951
BEATTY
LEONARD
SEAVELLO

34

| BM | 6.25 | 215.49 | | 209.24 | | | |
|----------|-------|--------|-------|-----------------|-------|-----|----------------------------------|
| 6+38 W. | | | 8.3 | 207.2 | 206.3 | C09 | ✓ |
| 6+21 E | | | 8.0 | 207.5 | 206.9 | C06 | ✓ |
| TP | 11.01 | 221.61 | 4.89 | 210.60 | | | |
| 5+85 W | | | 11.7 | 209.9 | 209.6 | C03 | ✓ |
| 5+73 E | | | 11.3 | 210.3 | 210.1 | C02 | ✓ |
| 5+48 E W | | | 9.7 | 211.9 | 211.8 | C01 | ✓ |
| 5+37 E | | | 9.0 | 212.6 | 212.5 | C01 | ✓ |
| 4+93 W | | | 5.1 | 216.5 | 215.3 | C12 | ✓ |
| 4+74 E | | | 4.2 | 217.4 | 216.6 | C08 | ✓ |
| 4+50 W | | | 2.4 | 219.2 | 217.9 | C13 | ✓ |
| 4+30 E | | | 1.2 | 220.4 | 219.3 | C11 | ✓ |
| TP back | 13.20 | 234.80 | 0.01 | 221.60 | | | |
| 3+86 W | | | 11.6 | 223.20 | 221.7 | C15 | ✓ |
| 3+74 E | | | 10.8 | 224.0 | 223.0 | C10 | ✓ |
| 3+44 W | | | 8.6 | 226.2 | 224.5 | C17 | ✓ |
| 3+41 E | | | 8.4 | 226.4 | 225.1 | C13 | |
| 3+01 W | | | 5.6 | 229.2 | 227.7 | C15 | |
| 2+74 E | | | 2.9 | 231.9 | 231.4 | C05 | |
| 2+50 W | | | 1.4 | 233.4 | 232.2 | C12 | |
| TP | 11.08 | 245.79 | 0.09 | 234.71 | | | |
| 2+25 E | | | -9.5 | 236.3 | 234.8 | C15 | |
| 1+87 W | | | 7.6 | 238.2 | 238.0 | C02 | |
| 1+86 E | | | 5.2 | 240.6 | 238.7 | C19 | |
| 1+37 W | | | 3.2 | 242.6 | 242.9 | F03 | |
| 1+35 E | | | 1.5 | 244.3 | 243.3 | C10 | |
| TP | 11.24 | 255.80 | 1.23 | 244.56 | | | |
| 0+95 W | | | 9.2 | 246.6 | 246.7 | F01 | |
| 0+42 W | | | 4.8 | 251.0 | 252.0 | F10 | 0+00 = So Prop line Brooklyn Ave |
| TP | 1.26 | 246.82 | 10.24 | 245.56 | | | |
| TP | 0.05 | 233.82 | 13.05 | 233.77 | | | |
| TP | 0.03 | 220.62 | 13.23 | 220.59 | | | |
| CK BM | | | 11.36 | 209.25 = 209.24 | | | |

L&T 3'50 So line Kenwood on Merlin Dr.

Alberado P. Plant
Check-along Proposal 15d

35

5750 ϕ

5.4

17'

5.2

6400 ϕ

5.4

12'

5.1

6450 ϕ

5.3

12'

4.9

7700

5.4

12'

4.8

585
35
620

Meter Boxes
Vancouver - Maple St. - So.

King
West
Thomas

1-5-50

26

| | | | | | | |
|--------|------|--------|-------|--------|--------|---------------|
| T.B.M. | 0.52 | 285.35 | | | 284.83 | SECURB RETURN |
| T.P. | 7.79 | 274.85 | 12.29 | 273.06 | | |
| 5+85 | | | 3.0 | 271.9 | 269.5 | 0 2 4 |
| 5+35 | | | 4.2 | 270.7 | 269.1 | 0 1 6 |
| 4+91 | | | 4.8 | 270.1 | 268.9 | 0 1 2 |
| 4+38 | | | 5.3 | 269.6 | 268.6 | 0 1 0 |
| 4+11 | | | 5.6 | 269.3 | 268.4 | 0 0 2 |
| 3+62 | | | 4.7 | 270.2 | 268.2 | 0 2 0 |
| 2+83 | | | 3.2 | 271.7 | 267.9 | 0 3 6 |
| 2+14 | | | 3.1 | 271.8 | 267.6 | 0 4 2 |
| 1+78 | | | 3.6 | 271.3 | 267.4 | 0 3 9 |
| 1+58 | | | 3.8 | 270.1 | 267.3 | 0 3 2 |
| 1+34 | | | 4.1 | 270.8 | 267.2 | 0 3 6 |

7.96 266.89

Bonita Pk.

Profile ground Line
2nd Ave - 4th Ave
192+38 - 199King
West
Williams

5-15-57

27

| | | | | |
|---------------------|------|--------|--------|--------|
| B.M. | 9.28 | 225.08 | | 215.80 |
| P.O.T. 192+38.23 | | 7.6 | 217.5 | |
| 192+50 | | 7.0 | 218.1 | |
| 193+00 | | 4.9 | 220.2 | |
| 193+50 | | 3.6 | 221.5 | |
| 194+00 | | 3.4 | 221.7 | |
| 194+50 | | 5.3 | 219.8 | 18.1 |
| 195+00 | | 6.7 | 218.4 | |
| 195+50 | | 6.2 | 218.9 | |
| 196+00 | | 4.0 | 221.1 | |
| 196+50 | | 2.4 | 222.7 | |
| 197+00 | | 2.8 | 222.3 | |
| 197+50 | | 3.1 | 222.0 | |
| 198+00 | | 3.7 | 221.4 | |
| 198+50 | | 4.9 | 220.2 | |
| 199+00 | | 7.7 | 217.4 | |
| Check | | 7.0 | 218.08 | 218.10 |

Top of par 198480

| | | |
|------------------|------|--------|
| 9" Acacia | 9.2 | 197+75 |
| 7" Acacia | 9.6 | 197+67 |
| 12" Acacia | 9.3 | 197+59 |
| 6" acacia | 9' | 197+56 |
| 8" acacia | 9.3 | 197+34 |
| 8" Acacia | 9' | 197+26 |
| Geraniums | 9' | 197+15 |
| Holly-overhang | 5' | 197+08 |
| Holly-foot trunk | 12.8 | 197+08 |
| Small cactus | 8.8 | 197+04 |

dm 10' 196+50

φ 10.7 196+41

Acacia - (4)' 16.3 196+30

3 acacia d. 12.4 196+24

196+24

39
7" Peppertree 12.3 198+39

7" Acacia 86 198+20

gladiola. 85 198+17

12" Acacia 87 198+10

8" Acacia 87 197+97

JAMACHA ROAD.

GRADES SET
ON ~~8~~ OFFSETS.
⑥ LT

JUNE 25, 1951.

BEATTY
WEST
WILLIAMS

10

| | | | ELEV | GRADE | CUT | |
|-------|------|--------|--------|--------|-----|---|
| HP | 6.93 | 274.86 | 267.93 | | | on Sew MH Run 44+25 |
| 45+90 | | 4.6 | 270.3 | 266.0 | C43 | |
| +50 | | 4.1 | 270.8 | 265.5 | C53 | |
| +45 | X PT | 4.1 | 270.8 | 265.4 | C54 | |
| 45+00 | | 4.9 | 270.0 | 265.00 | C50 | 45+31 (5) F.H. |
| +50 | | 5.7 | 269.2 | 264.8 | C44 | NOTE: - X PT Moved To 45+60 & 8 SHIFTED 2.0 FT NORTHERLY EL. 270.2 C07 C05 Curb 269.5 C00 C35 Grd |
| 44+00 | | 5.0 | 269.9 | 264.5 | C54 | |
| +50 | | 5.9 | 269.0 | 264.3 | C47 | |
| 43+00 | | 6.2 | 268.7 | 264.1 | C46 | |
| +50 | | 5.4 | 269.5 | 263.8 | C57 | |
| 42+00 | | 5.7 | 269.2 | 263.6 | C56 | |
| +55 | | 5.6 | 269.3 | 263.4 | C59 | |
| 41+00 | | 5.0 | 269.9 | 263.15 | C68 | |
| +50 | | 4.9 | 270.0 | 262.9 | C71 | |
| 40+00 | | 4.7 | 270.2 | 262.70 | C75 | 40+44 (5) FH. 270.95 EL. 267.90 C 3.05 C66 |
| HP | 1.10 | 271.14 | 4.82 | 270.04 | | Prop Car 39+65± 7'67 |
| +50 | | 2.1 | 269.0 | 262.46 | C65 | |
| 39+00 | | 2.8 | 268.3 | 262.23 | C61 | |
| +50 | | 2.5 | 267.6 | 262.0 | C56 | |

JUNE 27, 1951

JANACHA Road
GRADES SET
(6)

6/21/51

41

| | 271.14 | ELEV. | GRADE | CUT |
|-----------------------------|--------|--------------|-----------------------------|--|
| 38+00 | | 3.8 267.3 | 261.14 | C6 ² |
| +50 | | 4.7 266.4 | 260.28 | C6 ¹ |
| 37+00 | | 6.9 264.2 | 259.42 | C4 ⁸ |
| +50 | | 7.9 263.2 | 258.56 | C4 ⁶ |
| 36+00 | | 8.0 263.1 | 257.70 | C5 ⁴ |
| +50 | | 9.6 261.5 | 256.85 | C4 ⁶ |
| 35+00 | | 10.0 261.1 | 256.00 | C5 ¹ |
| 35+00 (5) F.H. | | 8.0 263.1 | 260.20 260.70 | C2⁴ C5 ⁹ C1 ⁹ C5 ⁴ |
| +79 ⁸ 12x6 Cross | | 10.3 260.8 | | |
| +50 3.47 263.77 | | 10.84 260.30 | 255.13 | C5 ² |
| +40 12" G.V. | | 3.3 260.50 | | |
| 34+00 | | 4.1 259.7 | 254.27 | C5 ⁴ |
| +50 | | 4.9 258.9 | 253.40 | C5 ⁴ C5 ⁵ |
| CK TP 2.55 262.34 | | 3.94 259.83 | = 259.79 | NOE/RM SEW MH. |
| 33+00 | | 4.3 258.0 | 252.54 | C5 ⁵ |
| +50 | | 5.6 256.7 | 251.68 | C5 ⁰ |
| +30 12x6 Cross | | | | |
| 32+00 | | 6.0 256.3 | 250.83 | C5 ⁵ |
| +50 | | 6.8 255.5 | 249.96 | C5 ⁵ |
| 31+00 | | 7.4 254.9 | 249.10 | C5 ⁸ |
| +50 | | 8.1 254.2 | 248.23 | C6 ⁰ |
| 30+00 | | 9.7 252.6 | 247.37 | C5 ⁸ |

NOTE:-

STA 33+50 E shifted 2.0 FT
Northerly

6/29/51

JAMACHA ROAD
GRADES SET

(6)

6/29/51
BEATTY
WEST
WILLIAMS

42

| | | ELEV | GRADE | |
|---------|-----------------------------------|--------------|----------|------------------------|
| 29+95 | 12" x 6" Cross | | | |
| +50 | | 10.9 251.4 | 246.5 | C49 ✓ |
| 29+00 | | 11.7 250.6 | 245.25 | C54 ✓ |
| +50 | | 13.2 248.9 | 244.0 | C49 ✓ |
| TP Rock | 3.52 252.61 | 13.25 249.09 | | C57 |
| 28+00 | | 4.5 248.1 | 242.4 | |
| +86 | (5) F.H. | 3.8 248.5 | 247.4 | 012 C46 C56 |
| +50 | | 5.5 247.1 | 240.5 | C63 |
| +46 | 12" x 6" Cross | | | |
| | TOP 4" RCP | 7.58 245.03 | | |
| 27+00 | | 6.7 245.9 | 239.56 | C63 |
| CK PD | | 12.75 249.86 | = 249.93 | |
| P | 4.20 249.23 | | 245.03 | |
| 27+27 | Top 6" SW @ M.H. Bot. 12" Wat. | 9.32 239.91 | | } Close |
| | | | 239.20 | C48 |
| 26+50 | | 5.0 244.2 | 239.4 | |
| 26+00 | | 5.5 243.7 | 239.2 | C4E |
| +50 | | 5.6 243.6 | 239.0 | C4E |
| 25+00 | | 6.1 243.1 | 238.5 | C46 |
| +50 | | 6.4 242.8 | 238.0 | C48 |
| 24+00 | | 6.7 242.5 | 237.4 | C51 |
| +50 | | 7.1 242.1 | 236.8 | C53 |

NOTE: -

27+00 E Shifted 2.50 FT
Northerly.

NOTE: -

26+00 used orig E
From here to & PT 22+

JANACHA ROAD

July 1, 1951

43

249.23

| | | | | | | |
|-------|----------|--|-----|-------|-------|------|
| 23+00 | | | 8.1 | 241.1 | 236.2 | C 42 |
| +65 | Ⓢ F.H. | | | | 240.3 | |
| +55 | 12" G.V. | | 9.2 | 240.0 | 235.6 | C 44 |
| +50 | | | | | | |

| | | | | | | |
|------|------|--------|------|-----------------|--|--|
| CK P | 4.05 | 243.98 | 9.40 | 239.83 = 239.93 | | |
|------|------|--------|------|-----------------|--|--|

| | | | | | | |
|-------|--------|--|-----|-------|------------------|----------------------|
| 22+65 | Ⓢ F.H. | | 3.1 | 240.9 | 240.0 | C 09 |
| | | | | | 240.3 | C 06 C 48 |

MELROSE PLACE
6" MAIN - STAKED

JUNE 26 1951
BEATTY
WEST
WILLIAMS

44

TP 5.56 247.78 242.22
362 244.16 Top FH.

End of curb
SW COR MELROSE

7
25
6
38

556
448
108

0-18⁶ CONN TO MAIN
AT TEE 5.4 242.4

0+00 4.4 243.4 243.2 239.2 C4² S Prop Line ROSWELL

20317

+50 4.3 243.5 243.7 239.7 C3⁸

24222

1+00 5.0 242.8 243.6 239.6 C3²

195

+50 6.2 241.6 242.5 238.5 C3¹

2+00 7.0 240.8 240.2 239.7 C4¹

+50 8.7 239.1 238.9 234.9 C4³

3+00 10.2 237.6 237.1 233.1 C4³

+45 Top SEW MH 11.43 236.35 235.2 231.2 C4⁴

+50 12.1 235.7 235.2 231.2 C4⁴

TP Rock 5.71 241.18 12.39 235.39 233.5 229.5 C4¹

4+00 7.5 233.6 233.0 229.0 C4¹

+12 2" B.O. 8.0 233.10 233.0 229.0 C4¹

201.10

475

236.75

Water Meter's

3+69 West 237.2 235.1 C2¹ Roswell + Melrose

3+05 West 239.3 236.9 C2⁴ Melrose SE Prop Mon 243.37

STAKES SET FOR 6" MAIN
MANZANITA DRIVE
W.O. # 2-1052-5

JUNE 26 1951 6/29/51

BEATTY
WEST
WILLIAMS

45

| BM. | | | | GRADE | |
|-----------|---------------------------|--------|-------|--------|------------------------------------|
| BM. | 0.00 | 297.72 | | 297.72 | Top F.H. SE Cor Poplar & Columbine |
| TP | 0.49 | 287.37 | 10.84 | 286.88 | Top F.H. SW Cor Manzanita & Dahlia |
| 0+00 | | | 3.0 | 284.4 | 284.1 2799 C45 |
| +50 | | | 7.0 | 280.4 | 280.6 2764 C40 |
| 1+00 | | | 7.5 | 279.9 | 279.1 2749 C50 |
| +50 | | | 5.9 | 281.5 | 2794 2752 C63 |
| 2+00 | | | 4.2 | 283.2 | 280.0 2758 C74 |
| +17 (BC) | | | 4.0 | 283.4 | 280.2 2760 C74 |
| +25 | | | 3.5 | 283.9 | 280.7 2767 C78 |
| +50 | | | 4.2 | 283.2 | 280.5 2763 C69 |
| +75 | | | 3.5 | 283.9 | 280.8 2766 C72 |
| 3+00 | | | 4.8 | 282.6 | 281.2 2770 C56 |
| TP (Back) | 10.47 | 293.04 | 4.80 | 282.57 | 281.9 2772 C55 |
| +25 | | | 9.8 | 283.2 | 282.7 2775 C54 |
| +50 | | | 9.1 | 283.9 | 282.7 2775 C54 |
| +75 | EC X PT | | 8.6 | 284.4 | 282.6 2792 C50 |
| | 58° 32' RT / TAN TO CURVE | | 7.6 | 285.4 | |
| 4+00 | | | 7.9 | 285.1 | 284.2 2800 C51 C54 |
| +09 | 8"x6" Cross | | | | |
| +50 | | | 5.4 | 287.6 | 285.5 2813 C63 |
| | | | 4.3 | 288.7 | |
| 4+70.3 | X PT (D.C) | | 2.1 | 288.9 | 286.3 2827 C66 C68 |
| 4+95.2 | | | 2.8 | 290.2 | 287.7 2825 C62 |

6/29/51

46

STAKES SET FOR 6" MAIN
MANZANITA DRIVE

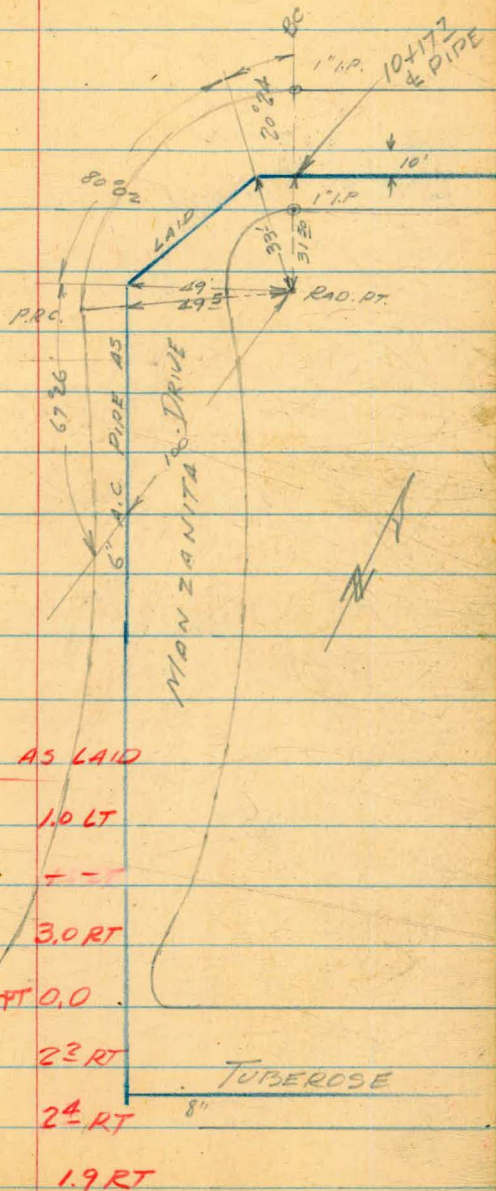
| | | | | | | |
|----------------------------------|--------|--------|--------|----------------|-----|--|
| | 293.04 | | | 286.8 284.6 | C65 | |
| 5+20? | | 1.9 | 291.1 | 289.5 285.3 | C69 | |
| 5+45? | | 0.8 | 292.2 | 289.8 290.9 | C63 | ⑤ FH C32 TO FLANGE |
| 5+54.2 (S) FH | | 0.0 | 293.04 | 285.9 | C62 | |
| 5+70? | | 0.9 | 292.1 | 290.7 | C62 | |
| IP 10 NAIL 7.29 299.47 | | 0.86 | 292.18 | 286.5 | C64 | ✓ 6" x 6" TEE 5+74 ³ = 0+00 ARBOR VITEA |
| 5+95? | | 6.1 | 293.4 | 291.6 287.6 | C65 | |
| 6+20? | | 5.5 | 294.0 | 287.8 | C61 | |
| 6+45? PRC | | 5.2 | 294.3 | 288.4 | C59 | |
| +67 | | 5.0 | 294.5 | 289.0 | C59 | |
| +88 | | 4.6 | 294.9 | 293.6 289.6 | C67 | ✓ |
| 7+06? (EC) | | 4.0 | 295.5 | 294.7 290.7 | C60 | |
| +50 | | 3.1 | 297.4 | 295.9 291.9 | C55 | |
| 8+00 | | 1.6 | 297.9 | 296.3 292.3 | C55 | |
| +50 | | 1.7 | 297.8 | 295.8 291.8 | C60 | |
| 9+00 | | 2.2 | 297.3 | 294.7 290.7 | C51 | |
| +50 | | 2.8 | 296.7 | 293.7 289.7 | C45 | |
| 10+00 | | 4.7 | 292.8 | 293.3 289.3 | C48 | |
| 10+17? (PC of ST) | 3.83 | 297.74 | 5.56 | 293.6 289.6 | C45 | WHEEL 294.1 C03 10+15 ⑤ FH GRADE 2938 C38 |
| 10+38 * PT. (45° RT) | | 4.1 | 293.6 | 293.7 289.7 | C45 | |
| +65 | | 4.2 | 292.5 | 293.1 288.3 | C43 | |
| +91.00 * PT (73° 26' LT) (H) 5.1 | | 292.6 | | | | |

Stakes Set for 6" Main
MANZANITA DRIVE

June 29, 51
Beatty
West
Williams

| | | | | | |
|--|--------|--------|--------|----------------|-------|
| | 297.74 | | | | |
| 11+15.50 (B.C) | | 4.8 | 292.9 | 292.1 288.1 | C48 |
| +35 +25 | | 5.0 | 292.7 | 291.8 287.8 | C49 |
| 60 +50 | | 4.9 | 292.8 | 291.5 287.5 | C53 |
| 85 +25 | | 5.1 | 292.6 | 291.2 287.2 | C54 |
| 12+00 (F.C) | | 5.5 | 292.2 | 291.0 287.0 | C52 |
| Prick | 3.98 | 292.89 | 8.83 | 288.91 | |
| CK BM | | 6.41 | 286.48 | = 286.38 | ✓ |
| 12+00 (H. From pg. 29) | 297.79 | | | | |
| 12+00 | | 6.2 | 291.6 | 290.5 286.5 | C51 |
| +74.20 (15° 10' LT) | | 5.7 | 292.1 | 290.2 286.2 | C59 |
| +82.2 TEE 90° RT (= 4+32.2 APPROXIMATE) | | 5.7 | 292.1 | 290.1 286.1 | C60 |
| +87.2 45° 8" 36' | | 5.8 | 292.0 | 290.0 286.0 | C60 |
| 13+21.3 B.C | | 6.2 | 291.6 | 289.6 285.4 | C62 ✓ |
| +46.3 | | 6.2 | 291.6 | 289.4 285.2 | C64 |
| +71.3 | | 6.4 | 291.4 | 289.0 284.8 | C60 |
| +96.3 | | 7.3 | 290.5 | 288.6 284.4 | C61 |
| 14+21.3 EC | | 7.8 | 290.0 | 288.1 283.9 | C61 |
| 14+41.76 B.C | | 7.7 | 290.1 | 288.5 284.3 | C58 |
| +50 | | 8.1 | 289.7 | 288.5 284.3 | C54 |

6" A.C. PIPE AS LAID



Stakes SET For 6" MAIN
MANZANITA DRIVE

| | | | | | | |
|----------------|------|--------|------|-----------------|----------------|------------------------|
| | | 297.79 | | | | |
| 14+75 | | | 8.5 | 289.3 | 288.5 284.3 | C50 |
| 15+00 | | | 8.6 | 289.2 | 288.2 284.5 | C47 |
| +25 | | | 8.6 | 289.2 | 288.9 284.7 | C45 |
| +50 | | | 8.7 | 289.1 | 289.1 284.9 | C42 |
| IP 10 NAIL | 5.95 | 295.05 | 8.69 | 289.10 | | C46 |
| +75 | | | 5.4 | 289.7 | 289.3 285.1 | C46 |
| 16+00 | | | 4.6 | 290.5 | 289.5 285.3 | C53 |
| +10 FH. (S) | | | 4.5 | 290.6 | 290.0 | C51 |
| +25 | | | 3.61 | 291.5 | 289.7 285.5 | C60 |
| IP on Prop Cor | | | 5.66 | 289.39 | | 3/4" I.P. 35' RT 16+10 |
| IP | 5.21 | 292.87 | 7.39 | 287.66 | | |
| CK BM | | | 6.39 | 286.48 | | |
| IP | 7.36 | 296.75 | | 289.39 | | |
| CK @ 16+25 | | | 5.32 | 291.43 = 291.44 | | |
| 16+50 | | | 4.66 | 292.1 | 285.8 | C63 |
| 17+00 | | | 3.7 | 293.1 | 286.3 | C68 |
| +10 8x6 Wyc | | | | | 290.7 | |
| +213 8x6 Wyc | | | 2.6 | 294.2 | 286.5 | C77 |
| CK IP | | | 7.36 | 289.39 | | |

7/5/51

48

8" PIPE AS LAID

7 RT 0.0

12 RT

23 RT

0.0 X PT

24 RT

25 RT

42

7

35

8

Aug. 9, 1951

STAKES SET FOR 8" MAIN
ON ARBOR VITAE

2-117

JULY 5 1951
BEATTY
WEST
WILLIAMS

29

| | | | | | | |
|----|---|------|--------|-------|----------------|-----------------|
| 14 | P (6" Nail 5+70?) | 5.61 | 297.79 | | 292.18 | |
| 15 | 0+10 ³ | | 4.9 | 292.9 | 290.9 286.7 | C6 ² |
| | +50 | | 3.6 | 294.2 | 293.7 289.5 | C4 ² |
| | 1+00 | | 2.5 | 295.3 | 295.3 291.1 | C4 ² |
| | +50 | | 1.8 | 296.0 | 296.0 291.8 | C4 ² |
| 16 | 2+00 | | 1.1 | 296.7 | 296.0 291.8 | C4 ⁹ |
| | +50 | | 1.7 | 296.1 | 295.2 291.0 | C5 ¹ |
| | 3+00 | | 2.7 | 295.1 | 293.6 289.0 | C5 ⁷ |
| | +50 | | 3.9 | 293.9 | 291.8 287.6 | C6 ³ |
| | 4+00 | | 5.0 | 292.8 | 290.8 286.6 | C6 ² |
| | +32 6" TEE | | 5.7 | 292.1 | 290.1 285.9 | C6 ² |
| | 4+37 45° Bend = (12+87 ² MANZANITA) | | 5.8 | 292.0 | 290.0 285.8 | C6 ² |

(Continued pg. 47)

3+83⁸⁵ = E Prop Line SnowDrop.

437
53.15
383.85

STAKES SET FOR 6" MAIN
42nd ST.
GAMMA TO ALPHA

July 3, 1951
BEATTY
WEST
WILLIAMS

50

| BM | 7.13 | 88.26 | 86.13 |
|------|-------------|-------|---|
| 0+00 | | | 4.6 83.7 29.75 76.0 |
| +50 | | | 3.0 85.3 80.09 76.3 |
| 1+00 | | | 4.4 83.9 82.40 78.6 |
| +50 | | | { 4.4 83.9 4.6 83.7 81.60 77.8 |
| 2+00 | | | 4.4 83.9 81.90 78.1 |
| +50 | | | 4.0 84.3 82.20 78.4 |
| 3+00 | | | 3.8 84.5 82.50 78.7 |
| +15 | ⑤ FH. | | 3.1 85.2 82.10 |
| +29 | 6" x 6" TEE | | 3.9 84.4 82.7 78.9 |
| +50 | | | 4.0 84.3 83.9 80.0 |
| 4+00 | | | 4.0 84.3 84.2 80.4 |
| 4+50 | | | 3.4 84.9 84.6 80.8 |
| 5+00 | | | 3.2 85.1 84.9 81.1 |
| +50 | | | 2.5 85.8 85.3 81.5 |
| 6+00 | | | 1.5 86.8 85.6 81.8 |
| +50 | | | 1.9 86.4 86.2 82.2 |
| +55 | ⑤ | | 0.6 87.7 86.7 |

TOP FH SE COR 42nd & Gamma

C73 = North Prop. Line Gamma St.

⑧ = 18' E of 42nd

C90 ⑧

C53 ⑧

C61 ⑧ = 18' E of 42nd

C59 ④ = 14' E of 42nd

C58

C49 ④

C58

C21 C56

C55

C43

C32

C41

C40

C43

C50

C40

C10 C45

BETA ST. 82.1

④ 0+00 4.6 = 83.7 78.3 C50

STAKES SET FOR 6" C.I MAIN
 ROSWELL ST.
 (W.O. 2-1112-5)

July 10 1951
 BEATTY
 WEST
 WILLIAMS

51.

| | | | | |
|--------------------|-------|--------|------|--------------|
| B.M. | 11.23 | 271.61 | | 259.88 |
| 9+58 ¹⁰ | | | 9.9 | 261.7 257.7 |
| +50 | | | 9.9 | 261.7 257.8 |
| 9+00 | | | 9.9 | 261.7 258.2 |
| +50 | | | 9.8 | 261.8 258.4 |
| 8+00 | | | 9.3 | 262.3 258.6 |
| +50 | | | 9.1 | 262.5 258.8 |
| 7+00 | | | 9.0 | 262.6 259.1 |
| +65 (5) F.H. | | | 8.7 | 262.9 263.0 |
| +50 | | | 8.6 | 263.0 259.3 |
| +395 (6x6" CROSS) | | | | |
| 6+00 | | | 8.5 | 263.1 260.1 |
| +50 | | | 6.4 | 265.2 262.2 |
| 5+00 | | | 2.8 | 268.8 265.3 |
| +50 | | | 0.6 | 271.0 266.9 |
| P.O. 4+00 | 0.20 | 270.57 | 12.4 | 270.37 266.9 |
| +50 | | | 1.1 | 269.5 266.0 |
| 746 (5) F.H. | | | 0.7 | 269.9 270.0 |
| 3+00 | | | 2.7 | 267.6 264.3 |
| +50 | | | 4.7 | 265.9 262.1 |
| 2+00 | | | 7.0 | 263.6 259.9 |
| +50 | | | 9.2 | 261.4 257.7 |
| 1+00 | | | 11.2 | 259.4 255.5 |
| +50 | | | 13.4 | 257.2 253.5 |

Conc Men SW Cor 56th & Roswell

C40 = Westerly P.L. 56th ST.

C39

C35

C34

C32

C37

C35

FOI C34

C32

Cross = 259.5

C30

C30

C35

C41

C35

C35

FOI

C33

C38

C37

C37

C39

C43

July 10 1951

52

STAKES SET FOR 6" MAIN
ROSWELL ST.

(W.O. 2-1112-5)

270.57

| | | | | | |
|-------|------|--------|-------|--------|--------------|
| TP | 2.91 | 260.57 | 12.91 | 257.66 | |
| 0+00 | | | 8.3 | 252.3 | Conn To Main |
| TP | 1.51 | 249.77 | 12.31 | 248.26 | |
| | | | 6.22 | 243.55 | |
| TP | 7.15 | 245.89 | 11.03 | 238.74 | |
| OK BM | | | 2.39 | 243.50 | = 243.27 |

30' west, East line Hanover
Bottom of existing 6" C.I.

TOP F.H. SELMA & ROSWELL

Mon SE Cor Melrose & Roswell

WATER METERS STAKED

| | | | | | |
|------|-------|--|-------|--------|-----|
| 0+81 | South | | 259.2 | 258.50 | C07 |
| 2+73 | South | | 267.4 | 266.80 | C06 |
| 3+10 | South | | 268.3 | 268.8 | F05 |
| 4+35 | South | | 271.6 | 271.2 | C04 |

July 11 1951

53

WATER METERS STAKED
MANZANITA DRIVE

W.O. 2-1052-5
287.27 Ht from page 45

| | | | | |
|--------------|------|--------|-------|-----|
| 2+51 South | 2.1 | 285.3 | 280.5 | C4E |
| 2+20 South | 1.8 | 285.6 | 280.2 | C5A |
| 1+80 South | 1.9 | 285.5 | 279.8 | C5Z |
| 1+32 South | 5.1 | 282.3 | 279.2 | C3L |
| 0+66.5 South | 6.7 | 280.7 | 279.6 | C09 |
| \bar{H} | 14.2 | 285.32 | 282.9 | |
| 1+38.2 Nor. | 6.65 | 278.7 | 279.2 | F05 |
| 1+81 Nor. | 5.74 | 279.6 | 279.7 | F0L |
| 2+43 Nor. | 4.9 | 280.4 | 280.4 | F00 |

2+17
78.8
1+38.2

July 16, 1951
BEATTY
LEONARD

2+17 2+17
36 26
77.92

WATER METERS GLENFIELD ST

| | | | | |
|-------------|-------|---------------|----------------------------|-----|
| BM | 2.95 | 320.47 | 318.02 | |
| \bar{H} | 5.28 | 313.41 | 12.24 308.13 | |
| 0+45 East | 4.6 | 308.8 | 307.4 | C14 |
| 0+65.5 West | 6.8 | 306.6 | 306.4 | C02 |
| 1+07 West | 6.3 | 307.1 | 306.6 | C05 |
| 1+36 West | 6.4 | 307.0 | 306.7 | C03 |
| 1+34 East | 5.2 | 308.2 | 307.2 | C10 |
| 1+80 East | 4.7 | 308.7 | 307.4 | C13 |
| 2+04 West | 6.2 | 307.2 | 307.0 | C02 |
| 2+92.5 West | 6.9 | 306.5 | 306.6 | F0L |
| \bar{H} | 4.56 | 310.96 | 7.01 306.40 | |
| 2+35 East | 2.7 | 307.3 | 30.66 | C03 |
| CK (2) 3195 | 6.30 | 304.7 = 304.8 | | |
| \bar{H} | 11.82 | 317.75 | 5.03 305.93 6.70 318.92 | |

+3.99 320.93

3.02 316.94
317.91 = 318.02

STAKES SET FOR 6" MAIN
ON
GLENFIELD ST.
(W.O. 2-1097-5)

July 11 1951

BEATTY
WILLIAMS
WEST

2.5
1.7

54

| | | | | | | | |
|--------|-----------------------------|--------|-------|-----------------|-------|-----|--|
| B.M. | 1.69 | 319.71 | | 318.02 | | | |
| FD | 2.10 | 309.44 | 12.37 | 307.34 | | | |
| 0+00 | TEE | | N 2.5 | 306.7 | 306.5 | 044 | (REF. TO 0+20.8 |
| | | | W 3.3 | 306.7 | 302.5 | | = 15' N of Nor PL - MANZANITA |
| +50 | | | 2.6 | 306.8 | 306.3 | 045 | 15' W of W Prop. L. Glenfield. |
| | | | | | 302.3 | | |
| +75 | (PC of Street East Side) | | | | | | |
| 1+00 | | | 2.2 | 307.2 | 306.6 | 046 | |
| | | | | | 302.6 | | |
| +50 | | | 2.3 | 307.1 | 306.8 | 043 | |
| | | | | | 302.3 | | |
| 2+00 | | | 2.3 | 307.1 | 307.0 | 041 | |
| | | | | | 302.0 | | |
| +50 | | | 2.6 | 306.8 | 306.9 | 039 | |
| | | | | | 302.9 | | |
| 3+00 | | | 2.8 | 306.6 | 306.5 | 041 | |
| | | | | | 302.5 | | |
| +50 | | | 3.6 | 305.8 | 305.9 | 038 | |
| | | | | | 301.9 | | |
| +95 | | | 4.6 | 304.8 ✓ | 305.1 | 037 | |
| | | | | | 301.1 | | |
| 4+50 | | | 5.3 | 304.1 | 304.2 | 039 | |
| | | | | | 300.7 | | |
| +74.25 | { 2 PT 43° 20' LT | | 5.7 | 302.7 | 304.0 | 037 | |
| | | | | | 300.0 | | |
| 5+05.8 | TEE | | 4.6 | 304.8 | | | CONN TO TEE |
| CK | | | 11.68 | 297.76 = 297.72 | | | Top P.H. Poplar & Columbine pp. 45. |

(SEE Pg 53 for Meters Staked)

July 12 1951

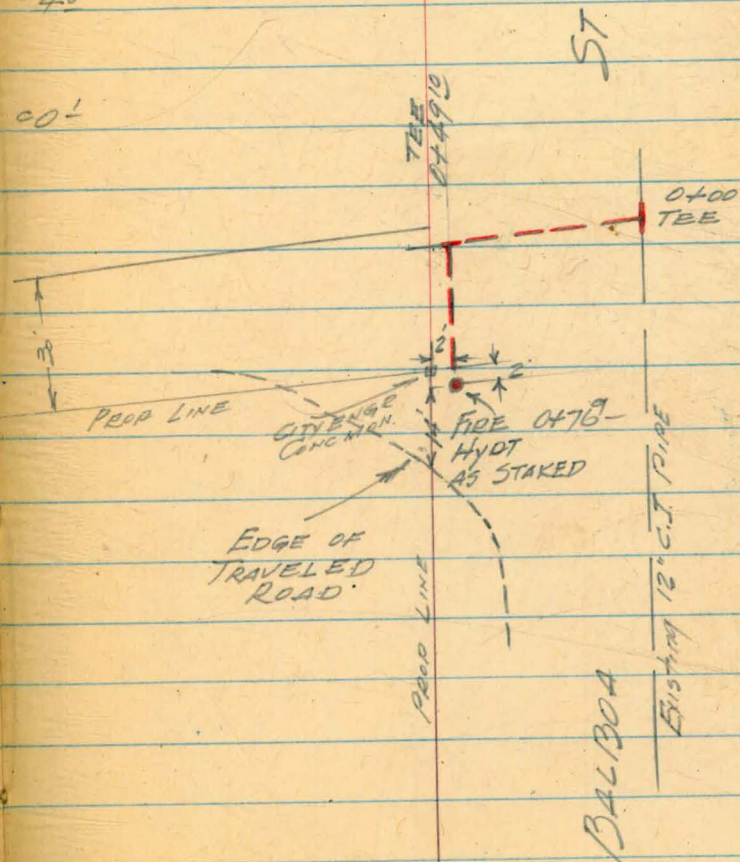
55

STAKES SET FOR WATER LINE
AND FIRE HYDT.

SANTA FE & BALBOA
W.P. 2-1107+5

| | | | | | | | |
|--------------------------------|-----|-------|-----|-------|-------|-----|--|
| BM. | 596 | 52.81 | | 46.85 | | | |
| 0+00 TEE | ④ | | 6.8 | 46.0 | | | |
| +25 | ④ | | 6.0 | 46.8 | | | |
| +49 ¹⁰ TEE | ④ | | 4.4 | 48.4 | 27.8 | 48 | |
| | | | | | 22.0 | | |
| 0+76 ² C FIRE Hydt. | | | | | | | |
| ⑤ F.H. | | | 5.6 | 47.2 | 47.06 | 00- | |

x 00 Rim Bell Tel M.H. }
{ SANTA FE
BALBOA



STAKES SET FOR 6" MAIN
CRESTON DRIVE

JULY 17 1951

Very Hot

56

King
Williams

| | | | | | |
|--------------------|----------------|--------|-------|--------|---------|
| B.M. | 774 | 267.62 | | 259.88 | 262.0 |
| 0-16 | (G GV/End RED) | | 4.8 | 262.8 | 258.2 |
| 0+00 | | | 4.8 | 262.8 | 267.3 |
| 0+50 | | | 4.8 | 262.8 | 258.5 |
| 1+00 | | | 4.4 | 263.2 | 263.2 |
| 1+50 | | | 3.8 | 263.8 | 259.4 |
| 2+00 | | | 2.5 | 265.1 | 264.2 |
| 2+50 | | | 1.5 | 266.1 | 260.4 |
| T.P. | 594 | 272.03 | 1.53 | 266.09 | 265.0 |
| 3+00 | | | 4.6 | 267.4 | 261.2 |
| 3+50 | | | 3.2 | 268.8 | 266.0 |
| 4+00 | | | 2.1 | 269.9 | 262.2 ✓ |
| 4+15 ²⁵ | | | 2.0 | 270.0 | 266.4 |
| 4+50 | | | 2.8 | 269.2 | 260.1 |
| 5+00 | | | 5.0 | 267.0 | 267.80 |
| 5+50 | | | 6.5 | 265.5 | 264.0 |
| 6+00 | | | 8.3 | 263.7 | 267.8 |
| 6+50 | | | 9.8 | 262.2 | 264.0 |
| 7+00 | | | 11.3 | 260.7 | 266.7 |
| 7+50 | | | 13.00 | 259.0 | 264.0 |

Corc Mon SW Cor Roswell @ 56th

24.6 SD. P.L. Roswell

24.3

25.8

23.4

23.9

23.9

24.3

24.8

25.9

26.0

26.2

24.1

24.1

23.8

23.8

23.9

23.7

6" CIP.
Creston Drive
& Selma St.

272.03

| | | | | | | |
|----------------------------|------|--------|-------|--------|-------|--|
| T.P. | 0.95 | 260.00 | 12.98 | 259.05 | 257.6 | |
| 8+00 | | | 2.7 | 257.3 | 258.8 | 63.5 |
| 8+50 | | | 4.0 | 256.0 | 256.0 | 63.8 |
| 9+00 | | | 5.3 | 254.7 | 254.6 | 63.9 |
| 9+50 | | | 6.8 | 253.2 | 253.0 | 64.0 |
| 10+00 | | | 8.5 | 251.5 | 251.5 | 63.8 |
| 10+50 | | | 9.9 | 250.1 | 247.7 | 63.9 |
| 10+59.8 | | | 11.4 | 248.6 | 250.0 | |
| T.J.I. | 5.75 | 253.02 | 12.73 | 247.27 | 244.1 | 64.5 |
| 0-17 top Tee | | | 16.3 | 236.7 | | |
| 0+00 | | | 12.1 | 240.9 | 239.4 | 65.0 So. Prop. Line Russell-going So. on Selma |
| 0+50 | | | 11.5 | 241.5 | 235.6 | 64.3 |
| 1+00 | | | 10.0 | 243.0 | 241.0 | 64.3 |
| 1+50 | | | 8.4 | 244.6 | 237.2 | 64.5 |
| 2+00 | | | 6.4 | 246.6 | 242.5 | 65.0 |
| 2+50 | | | 4.9 | 248.1 | 238.7 | 65.0 |
| 2+98.3 | | | 4.1 | 248.9 | 243.9 | 64.8 |
| 10+79 Creston = 0700 Selma | | | 3.8 | 249.2 | 244.1 | 65.1 |
| 0+50 | | | 3.8 | 249.2 | 242.9 | 65.2 |
| 1+00 | | | 4.7 | 248.3 | 244.1 | 64.9 |

King
Williams

7-17-51

57.

9.571

243.55

Selma St.
C.I.P.

253.02

| | | | |
|---------------------------|------|--------|-------------------------|
| 1+50 | 5.5 | 247.5 | 246.1 242.8 245.0 |
| 2+00 | 6.5 | 246.5 | 241.2 244.0 |
| 2+50 | 7.5 | 245.5 | 240.2 242.7 |
| 3+00 | 9.1 | 248.9 | 238.9 240.7 |
| 3+50 | 10.7 | 242.3 | 236.9 239.2 |
| 4+00 | 12.5 | 240.5 | 235.4 236.2 |
| 4+55 | 14.9 | 238.1 | 232.4 |
| C.K.T.B.M.F. | 9.5y | 243.48 | 243.55 |
| F.H. 10+535 Creston Dr | 2.7 | 250.3 | 250.2 |

July 17, 1951
Beatty
Leonard
King
West
Williams

59

C 5.2

C 5.3

C 5.8

C 5.0

C 5.4

C 5.1

C 5.7

Top F.H. Selma & Roswell

Col C 36

STAKES SET FOR 8" MAIN
HEATHER ST { MANZANITA
W.P. 2-1098-5 } POPLAR

July 20 1951
Beatty
Leonard
Seavello

6.34
8
5.56

59.

| BM. | 6.93 | 304.65 | | 297.72 | | Top FH. Poplar & Columbine | |
|-------------------------------|------|--------|----|--------|-------|----------------------------|------------|
| | | | N | 6.1 | 298.6 | 297.0 | |
| 0+00 | | | W. | 6.2 | 298.5 | 293.0 | C55 w/ C56 |
| 0+15 (So Prop Line Manzanita) | | | | | | | |
| +25 (5) FH. | | | | 5.5 | 299.2 | 297.1 | C21 C56 |
| +50 | | | | 5.7 | 299.0 | 297.4 293.2 | C56 |
| 1+00 | | | | 5.6 | 299.1 | 298.1 294.1 | C50 |
| +50 | | | | 5.4 | 299.3 | 298.7 294.7 | C46 |
| 2+00 | | | | 5.3 | 299.4 | 299.3 295.3 | C41 |
| +50 | | | | 5.1 | 299.6 | 299.5 295.5 | C41 |
| 3+00 | | | | 5.6 | 299.1 | 299.2 295.3 | C38 |
| 3+30 (Nor Prop Line Poplar.) | | | | | | | |
| +50 | | | | 6.4 | 298.3 | 299.0 295.0 | C33 |
| 3+79.2 TEE | | | | 6.0 | 298.7 | 298.7 294.7 | C40 |

CK BM 8.07 305.79 6.93 297.72

WATER METERS.

| | | | | |
|------------------------|-----|-------|-------|-----|
| 2+125 WEST | 5.6 | 309.2 | 299.4 | C08 |
| 1+85 WEST | 6.0 | 299.8 | 299.2 | C06 |
| 1+24 WEST | 6.4 | 299.4 | 298.4 | C10 |
| 0+90 ^E WEST | 6.8 | 299.0 | 297.9 | C12 |
| 0+45 WEST | 6.6 | 299.2 | 297.4 | C18 |
| 0+21 East | 6.1 | 299.7 | 297.7 | C20 |
| 0+51 East | 6.1 | 299.7 | 297.9 | C18 |
| 1+44 ^E | 5.7 | 300.1 | 298.8 | C13 |

CK (2) 1+50

6.55 299.26 = 299.3

JULY 27, 1951

WATER METERS STAKED
MANZANITA DR

| DM | 7.27 | 295.16 | 287.89 | GRADE |
|-----------------|------|--------|----------|--------|
| | | 9.94 | 285.22 | 292.60 |
| 7+145 So | | 5.5 | 296.2 | 293.9 |
| 7+645 So | | 3.9 | 297.8 | 295.1 |
| 8+055 So | | 3.9 | 297.8 | 296.0 |
| 8+83 So | | 3.8 | 297.9 | 296.2 |
| IP OK @ 8+50 | | 2.06 | 297.68 = | 297.8 |

ARBOR VITAE
WATER METERS STAKED

| BM | 10.41 | 287.89 | 293.89 | 299.69 |
|----------|-------|--------|--------|--------------------|
| 0+31 So | 4.55 | 293.75 | 291.5 | |
| 0+96 So | 3.19 | 295.11 | 294.8 | |
| 1+28 So | 3.28 | 295.82 | 295.6 | |
| 1+69 So | 2.87 | 296.23 | 296.0 | |
| 2+00 So | 2.24 | 296.86 | 296.0 | |
| 2+33 So | 2.79 | 296.31 | 295.8 | |
| 2+71 So | 3.61 | 295.49 | 295.0 | |
| 2+71 Nor | 2.66 | 296.44 | 295.0 | |
| 3+07 So | 3.84 | 295.26 | 293.8 | |
| 3+60 So | 5.65 | 293.45 | 292.1 | |
| IP | 6.21 | 299.10 | 292.89 | (1141550) 29.69 |

JULY 1 1951

DEATY
LEONARD
SCAVELLO

60

TOP RH HOLLYWOOD PARK
POPLAR

C26 METER 62^E Nor SW Cor Lot 8
BLK 5 MAP 1696

C22

C27

C18

C17

8-15-51

C225

C03

C02

C02

C09

C05

C05

C14

C14

C14

Aug 1, 1951

61

GRADE STAKE SET FOR 8" A.C.
WATER MAIN ON ④
MANZANITA - HEATHER TO DAHLIA

| | | | | | | |
|----------------------|----------------|------------------|------|-----------------------|----------------|-----------------------------|
| BM | 3.13 | 300.85 | | 297.72 | | Top F.H. Poplar & Columbine |
| 0+00 | = EXISTING TEE | | | | | |
| 0+08 | | - 7' off W. Line | 2.5 | 298.4 | 296.9 292.9 | C55 |
| 0+25 | | Heather | 2.3 | 298.6 | 296.8 | ⑤ F.H. 9/8 C53 |
| 0+50 | | | 3.2 | 297.7 | 296.2 292.2 | C53 |
| 1+00 | | | 4.4 | 296.5 | 295.5 291.5 | C50 |
| +50 | | | 5.4 | 295.5 | 295.0 291.0 | C45 |
| 2+00 | | | 6.0 | 294.9 | 294.4 290.4 | C45 |
| +50 | | | 6.0 | 294.9 | 290.0 290.0 | C49 |
| 2+925 | | 7' off E. Line | | | | |
| 3+00 | | Columbine | 5.5 | 295.4 | 293.2 289.2 | C62 |
| 3+25 ³ | 2 | } EXIST. TEE | 5.1 | } CONN. TO EXIST. TEE | | |
| 3+25 ³ | West | | 5.1 | | | |
| 3+35 ³ | (B.C.) | | 5.1 | 295.8 | 293.2 289.2 | C66 |
| 3+55 ³ | | | 5.3 | 295.6 | 292.8 288.8 | C68 |
| 3+75 ³ | | | 5.6 | 295.3 | 293.4 289.4 | C57 |
| 3+95 ³ | | | 6.2 | 294.7 | 292.3 288.3 | C64 |
| 4+15 ³ | | | 7.0 | 293.9 | 292.1 288.1 | C58 |
| IP 4+33 ² | 1.29 | (E.C.) | 7.19 | 293.46 | 292.0 288.0 | C57 |
| +50 | | | 1.5 | 293.5 | 291.5 287.5 | C60 |
| 5+00 | | | 2.7 | 292.3 | 290.4 286.4 | C59 |
| +50 | | | 3.4 | 291.6 | 289.2 285.2 | C64 |

GRADES SET FOR 8" MAIN
MANZANITA

| | | | | | |
|---------------------------|--------|------|-----------------|----------------|-------------------------------|
| 6+00 | 294.95 | 5.5 | 289.5 | 287.0 283.0 | C65 |
| +25' B.C. | | 6.3 | 288.7 | 287.2 283.2 | C55 |
| +45' | | 6.5 | 288.5 | 287.0 283.0 | C55 |
| +65' EC | | 5.9 | 289.1 | 286.5 282.5 | C66 |
| 7+00 | | 7.6 | 287.4 | 286.0 282.0 | C54 |
| +24.3 4' Nor EXIST TEE | | 8.0 | 287.0 | | { CONN. TO EXIST TEE |
| CK BM | | 8.08 | 286.87 = 286.88 | | Top FH Dahlia & Manzanita |

8-1-51

63

CRESTON DRIVE & SELMA
 WATER METERS STAKED
 (Back-SIDE 203 from & 51)

| | | | | |
|---------------|------|---------------------------|---------------------------|----------------------------------|
| TP 4+00 | 4.81 | 274.71 | 269.9 | |
| 3+50 | 6.08 | 274.88 | 268.8 | |
| | | 274.8 274.5 | 266.2 | |
| 2+50 West | | 8.3 | 266.5 | 266.0 C05 C02 |
| 2+79 EAST | | 8.6 | 265.9 266.2 | 267.4 F12 F15 |
| 1+88 WEST | | 9.5 | 265.0 265.3 | 266.5 F12 F15 |
| 3+47 WEST | | 5.9 | 268.6 268.9 | 268.6 S03 C00 |
| 3+90 EAST | | 4.95 | 269.5 269.0 | 269.0 C06 F05 C05 |
| CK (4+50) | | 5.6 | 269.2 | 269.2 |
| | | | 269.2 | C02 C37 |
| 3+80 (5) F.H | | 5.3 | 269.5 | 269.0 C05 C02 |
| TBM | 8.64 | 252.19 | 243.55 | Top F.H Selma & Roswell |
| 1+05 W. Selma | | 9.46 | 242.7 | 242.7 |
| 1+66 W. " " | | 7.9 | 244.3 | 244.5 |
| 2+66 W. " " | | 5.2 | 247.0 | 247.4 F04 |
| TP | 3.82 | 253.40 | 2.61 | 249.58 |
| 0+59 E Selma | | 4.1 | 249.3 | 249.0 248.5 C08 |
| 0+60 W | | 5.2 | 248.2 | 248.0 247.8 C07 |
| 1+65 E | | 5.4 | 248.0 | 246.8 246.5 C12 |
| 2+28 E | | 6.4 | 247.0 | 245.6 245.3 C14 |
| 2+26 W | | 8.4 | 245.0 | 244.9 244.5 C08 O1 |

Aug 2, 1951

CRESTON DRIVE & SELMA
WATER METERS STAKED

8/2/51

64

| | 253.40 | | | 240.1 | F04 |
|-------------------------------|--------|--------|------------------|--------|-----|
| 3+78 W SELMA SOUTH of CRESTON | 13.7 | 239.7 | 239.8 | | F04 |
| P 11.70 | 261.28 | 382 | 249.58 | | |
| 10+45 Nor (on CRESTON DRIVE) | 10.8 | 250.5 | 250.7 | | F02 |
| 9+91 Nor " | 9.0 | 252.3 | 253.1 | | F08 |
| 9+58 Nor " | 7.7 | 253.6 | 254.1 | | F05 |
| 8+97 Nor " | 5.8 | 255.5 | 255.9 | | F04 |
| 7+64 Nor " | 2.3 | 259.0 | 260.0 | | F10 |
| 7+405 So " | 1.6 | 259.7 | 260.2 | | F05 |
| P 11.44 | | | | | |
| 7+20 Nor | 271.61 | 1.11 | 260.17 | 261.3 | F11 |
| 6+84 So " | 10.30 | 262.3 | 262.0 | | C03 |
| 6+17 So " | 8.3 | 264.3 | 263.8 | | C05 |
| 5+83 Nor " | 6.9 | 265.7 | 265.2 | | C05 |
| 5+67 So " | 6.7 | 265.9 | 265.4 | | C05 |
| 5+26 Nor " | 5.4 | 267.2 | 267.2 | | C00 |
| 4+77 So " | 3.5 | 268.1 | 268.1 | | C00 |
| CK 4+50 @ | 2.73 | 268.88 | | | |
| SET P Prop. Co * Pt. Nor. | 0.50 | 269.54 | 2.57 | 269.04 | |
| CK B.M. | 10.10 | 259.44 | 259.88 | | |

259.88
10.10
269.98

WATER METER STAKED
 MANZANITA DRIVE
 HEATHER - DAHLIA

AUG. 8 1951

DEATY
 LEONARD
 SEAVELLO

65

| | | | | | | | |
|---------------------|--------|--------------------|--------|---------------------------|---------|-------------|------------------------------|
| TP | 9.80 | 296.68 | 286.88 | Top FH DAHLIA & MANZANITA | | | |
| 6+045 (6+254 EC) | W.M So | | 5.71 | 290.97 | 288.2 | C28 Lot 1 | 21' ft east from BC of Curve |
| Nor | | | 9.34 | 287.34 | 287.1 | C02 Lot 28 | 15' West of BC |
| Nor | | | 6.23 | 290.45 | 289.7 | C08 Lot 25 | 15' West of E Prop. Cor |
| Nor | | | 5.19 | 291.49 | 291.4 | C01 Lot 23 | 9' West of E.C |
| Nor | | (41 30086 6.36) | | 294.50 | 293.4 | C11 Lot 20 | 55' East of PDC |
| Nor | | (41 30086 6.77) | | 294.09 | 293.7 | C04 Lot 19 | 65' West of B.C |
| 4+46 | So. | | 2.74 | 293.94 | 291.9 | C20 | 12' WEST OF E.C |
| 4+60 | So. | | 3.10 | 293.58 | 291.5 | C21 Lot 22 | 26' WEST OF EC |
| TP Rock | 640 | 300.86 | 2.22 | 294.46 | | C03 Lot 17 | 31' WEST OF EC |
| Nor. | | | 5.72 | 295.14 | 295.4 | C05 Lot 16 | 3' WEST OF EC |
| Nor. | | | 4.75 | 296.11 | 295.6 | C11 Lot 15' | 65' E OF EC. |
| Nor. | | | 3.17 | 297.69 | 296.6 | | |
| CK @ 1+00 | | | 4.4 | 296.45 | = 296.5 | | |

BONITA PIPELINE REPLACEMENT
 STAKES SET FOR CURB REPLACEMENT
 SOUTH SIDE HILL TOP DRIVE
 3' FT. BACK - BACK OF CURB.

8-10-51
 BEATTY
 LEONARD
 SEAVELLO

66

| | | | | |
|---|------|--------|--------|--|
| TBM. | 118 | 171.40 | 170.22 | |
| 12+672 = 381+75 END CURB BONITA PL. REPLACMT | 6.15 | 165.25 | 165.25 | |
| 12+279 | 6.15 | 165.25 | 165.23 | |
| 11+779 | 6.11 | 165.39 | 165.05 | |
| 11+279 | 6.41 | 164.99 | 164.86 | |
| 11+029 | | 164.69 | 164.8 | |
| 10+779 | 6.36 | 165.04 | 164.86 | |
| 10+529 | | 165.41 | 165.50 | |
| 10+279 | 5.09 | 168.31 | 166.42 | |
| 9+779 | 3.37 | 168.03 | 167.97 | |
| 9+279 E.C. CURB RET | 1.62 | 169.77 | 169.82 | |
| IP | 574 | 175.96 | 170.22 | |
| 8+539 B.C. CURB RET | 3.62 | 172.34 | 172.21 | |
| +50 | 3.53 | 172.43 | 172.40 | |
| 8+00 | 2.67 | 173.29 | 172.14 | |
| +75 | | 172.83 | 172.90 | |
| +50 | 3.39 | 172.57 | 172.45 | |
| +25 | | 171.62 | 171.50 | |
| 7+00 | 5.66 | 170.30 | 170.27 | |
| +50 | 8.33 | 167.63 | 167.55 | |
| IP | 0.06 | 167.46 | 167.40 | |
| 6+00 | 2.67 | 164.79 | 164.76 | |
| +50 | 4.63 | 162.83 | 162.83 | |
| +25 | | 162.22 | 162.10 | |

Nail in pole SW Cor 44th & Hilltop

CO²

15 H CO²

CO³⁴

CO¹³

6.73/ 721 inlet +53 FO¹⁴

6.51 in CO¹⁸

FO²⁹

FO¹¹

3.22/ CO⁰⁶

1.55 FO⁰⁵

same CO⁰³

CO⁰³

2.79 CO¹⁵

FO⁰⁷

3.48 CO¹²

CO¹²

same CO⁰³

8.33 CO⁰⁸

same CO⁰³

" CO⁰²

CO¹²

BONITA P.L. REPLACEMENT
CURB REPLACEMENT
Cont'd.

8-10-51

67.

| | 167.46 | Elev. | Grade | | |
|--|--------|-----------------|-----------------------------|----------------------------------|------------------|
| 5+00 | 5.59 | 161.87 | 161.86 | same | C0 ⁰³ |
| +50 | 5.81 | 161.65 | 161.55 | 5.88 | C0 ¹⁰ |
| 4+00 | 6.04 | 161.42 | 161.31 | 6.12 | C0 ¹¹ |
| +50 | 6.24 | 161.22 | ^{161.10} 161.81 | 6.42 | C0 ¹² |
| 3+00 | 6.57 | 160.89 | 160.86 | same | C0 ⁰² |
| +50 | 6.97 | 160.49 | 160.40 | 7.03 | C0 ⁰⁹ |
| 2+00 | 7.25 | 160.21 | 160.0 | | C0 ²¹ |
| +75 | | 159.77 | 159.70 | (7.8' Top curb Top Dr 8.24 +4.2) | C0 ⁰⁷ |
| +50 | 7.76 | 159.70 | 159.61 | 7.82 oil SW | C0 ⁰⁹ |
| 1+00 | 7.36 | 160.10 | 160.03 | 7.40 oil SW | C0 ⁰⁷ |
| +50 | 6.19 | 161.27 | 161.20 | 6.23 oil SW | C0 ⁰⁷ |
| EC Curb RET 0+00 = 329+07.30 BONITA P.L. REPLACMT. | 4.60 | 162.86 | 162.77 | | C0 ⁰⁹ |
| | 4.24 | 163.22 | 163.22 | 0-14' Top curb | |
| TBM | 3.81 | 163.65 = 163.66 | | Boat Nail & 45" @ Hilltop | |

④ STAKES SET FOR 8" MAIN IN
MANZANITA PLACE
FROM MANZANITA TO 10" EXISTING PIPE TO NORTH.

Aug. 13 1951
BEATTY
LEONARD
Seavello

68.

| | | | | | |
|---|------|--------|-------|--------|----------------|
| BM | 1.46 | 319.48 | | 318.02 | |
| TBM | | | 5.12 | 314.34 | |
| 0+00 So. = 20'E of W Prop Line | | | 5.19 | 314.29 | 309.2 |
| 0+00 W. = 16'E #11. Nor SW Cor. MANZANITA & MANZ. PLACE | | | 5.22 | 314.26 | 313.2 309.2 |
| +50 | | | 6.28 | 313.20 | 308.6 |
| +75 | | | 8.06 | 311.42 | 307.0 |
| IP 1+00 | 0.65 | 308.32 | 11.81 | 307.67 | 303.7 |
| +15 | | | 3.76 | 304.56 | 301.6 |
| +30 | | | 9.84 | 298.48 | 295.5 |
| IP | 0.12 | 295.27 | 13.17 | 295.15 | |
| +45 | | | 3.81 | 291.46 | 287.5 |
| +60 | | | 10.68 | 284.59 | 280.6 |
| IP +75 | 5.29 | 287.73 | 12.83 | 282.44 | 277.5 |
| | | | 7.26 | 280.47 | 277.5 |
| 1+97' Wye 10" x 8" | | | 8.54 | 279.19 | 276.2 |
| 1+97' Top 10" C.I. | | | 10.83 | 276.90 | |

IP SE Cor. Train & Fairmont
NAIL IN Pole SW Cor. MANZANITA & MANZ. PLACE

C51

C51

C46

C44

C40

C30

22 1/2° Bend

C30

C40

C40

+65 22 1/2° Bend

282.59 278.0 C46

C30

C30

WATER METERS STAKED
ON
MANZANITA DRIVE

8-14-51

69

| | | | | | | |
|-------------------------------------|------|--------|--------|-----------|-------|-----|
| PK ① (8+50) | 3.05 | 300.73 | 297.68 | 299.60 | | |
| 7+02 Nor. | | | 6.54 | 294.19 | 293.5 | C03 |
| 8+34 Nor. | | | 4.45 | 296.28 | 296.3 | C02 |
| 8+52 Nor. | | | 4.32 | 296.41 | 296.3 | C04 |
| 9+34 Nor | | | 4.52 | 296.21 | 295.1 | C11 |
| 9+88 Nor | | | 6.00 | 294.73 | 293.3 | C14 |
| (10+17 ² -B.C. of curve) | | | | | | |
| 95 W of B.C (Nor) | | | 7.84 | 292.89 | 293.2 | F03 |
| 44° SW of B.C (W) | | | 8.05 | 292.68 | 292.9 | F02 |
| 86° SW of B.C (W) | | | 7.70 | 292.99 | 292.5 | C05 |
| 82° Nor of PRC (W) | | | 8.23 | 292.50 | 292.2 | C03 |
| 34° So of PRC (E) | | | 6.84 | 293.89 | 292.2 | C12 |
| 83° So of PRC (E) | | | 6.52 | 294.21 | 291.6 | C26 |
| 70° So PRC (W) | | | 8.24 | 292.59 | 291.7 | C09 |
| CK ① 11+15 ⁵⁰ | | | 7.84 | =292.89 = | 292.9 | |
| PK ② | 4.16 | 297.91 | | 293.75 | | |
| 7+08 ⁵ Nor | | | 5.55 | 292.36 | 291.8 | C06 |
| 6+47 ³ | | | | | | |
| 6+75 Nor | | | 5.96 | 291.95 | 290.8 | C12 |
| 6+14 | | | | | | |
| 6+18 Nor | | | 6.84 | 291.07 | 289.5 | C16 |
| 5+57 | | | | | | |
| OK 7+06 ⁹ PK | | | 3.72 | 294.19 = | 294.3 | OR |

8-15-51

WATER METERS STAKED
ON
REED AVENUE

Aug 16 1951

70

| | | | | |
|--------------------------------|----------------|-------|---------|--|
| BM | 7.25 | 51.00 | | |
| 0+00 = EAST Prop. Line Gresham | | | 44.15 | |
| 1+405 Nor | 7.4 | 32.6 | 33.2 | |
| 0+035 Nor | 7.8 | 32.2 | 32.0 | |
| 1+645 Nor | 7.0 | 33.0 | 33.5 | |
| 1+205 So | 6.7 | 33.3 | 32.8 | |
| 2+24 Nor | 6.0 | 34.0 | 34.4 | |
| 2+305 Nor | 5.7 | 34.3 | 35.3 | |
| 2+175 So | 6.4 | 33.6 | 33.8 | |
| 2+42 So | 5.65 | 34.3 | 34.5 | |
| 2+96 Nor | 3.0 | 37.0 | 37.3 | |
| 3+235 So | 2.2 | 37.8 | 38.1 | |
| 3+33 Nor | 1.5 | 38.5 | 39.0 | |
| 3+42 So | 12.90 | 38.50 | 39.0 | |
| 3+926 Nor (stiff 2' short) | 9.0 | 42.4 | 42.2 | |
| 3+92 So (stiff 2' short) | 9.4 | 42.0 | 41.5 | |
| 0+00 = EAST Prop. LINE HAINES | | | | |
| 0+34 Nor | 56.40 | H.d. | 47.3 | |
| 0+83 Nor | 4.2 | 47.2 | 47.0 | |
| 1+36 Nor | 4.5 | 46.9 | 46.7 | |
| 1+535 So | 4.9 | 46.5 | 46.0 | |
| 1+82 Nor | 4.4 | 47.0 | 46.4 | |
| 2+423 So | 5.1 | 46.3 | 45.6 | |
| 2+73 So | 5.3 | 46.1 | 45.3 | |
| 2+98 So | 5.0 | 46.4 | 45.2 | |
| 3+46 So | 5.4 | 46.0 | 44.8 | |
| 3+93 So | 5.7 | 45.7 | 44.5 | |
| 4+40 So | 6.7 | 44.7 | 44.3 | |
| 4+33 So | | | 44.4 | |
| CK CURB SE Cor | 8.21 | 31.76 | = 31.60 | |
| SET TP on F.H | SE Cor Gresham | 5.65 | 32.32 | |
| | & Reed | | | |

L&T Reed & Ingram

| | |
|-----|--|
| F06 | |
| C02 | |
| F05 | |
| C05 | |
| F04 | |
| F10 | |
| F02 | |
| F02 | |
| F03 | |
| F03 | |
| F05 | |
| F05 | |
| C02 | |
| C05 | |

| | |
|----------|------------|
| 3+33 Nor | 38.50 |
| | 12.03 |
| | 50.53 H.d. |
| | 4.37 |
| NS | 46.14 |
| 50.5 | 50.5 |
| 36 | 13 |
| 69 | 46.2 |
| | 46.6 |

Regraded 8-22-51

| | | |
|----------|-------|-------|
| 5.76 | 49.91 | 44.15 |
| 0+83 No | 46.9 | F02 |
| 1+82 Nor | 46.6 | F02 |
| | 46.2 | F02 |
| 2+12 Nor | 3.9 | 46.1 |
| | 3.7 | 46.2 |
| | 4.2 | 45.7 |
| | 4.6 | 45.3 |
| | 4.6 | 45.3 |
| | 4.7 | 45.2 |
| | 5.0 | 44.9 |
| | 5.3 | 44.6 |

EST. CURB GRD.

8-17-51

BEATTY
LEONARD
SEAVELLO

71

⑤ STAKES SET FOR 8" MAIN
MANZANITA DRIVE
HEATHER TO MANZANITA PLACE

| | | | | | | |
|--------------------|-----------------------------------|--------|--------|----------------|-----|---|
| IP | 7.88 | 304.4 | | 296.5 | | |
| 0+00 | = 3° East TEE HEATHER & MAN. | 5.75 | 298.6 | 292.9 | C57 | Grade 0+00 pg 61 |
| +50 | | 5.30 | 299.1 | 293.7 | C54 | |
| 0+74.13 | B.C. (PCC of STREET) | 5.15 | 299.2 | 298.8 293.8 | C52 | |
| IP | | 4.13 | 300.27 | | | |
| TBM | 1.26 | 315.71 | | 314.35 | | NAIL IN POLE pg 68 |
| 5+82.25 | = TEE MANZANITA DR " PLACE 1.4 | | 314.3 | 313.2 309.0 | C53 | |
| +50 | | 2.7 | 313.0 | 312.4 308.2 | C48 | |
| 5+00 | | 4.5 | 311.2 | 310.8 306.6 | C46 | |
| +50 | | 5.9 | 309.8 | 309.3 305.1 | C47 | 0.32 32 64 0.32 96 50/1.60 102 |
| 4+00 | | 7.6 | 308.1 | 307.7 303.5 | C46 | |
| 3+54.5 | TEE MANZANITA DR GLENFIELD | | | 305.8 | C50 | |
| 3+48.5 | | 9.1 | 306.6 | 301.6 | C50 | |
| +20E ⑤ FH | | 9.6 | 306.1 | 305.0 | C12 | |
| 3+00 | | 10.6 | 295.1 | 304.3 300.7 | C50 | |
| IP 2+50 | 2.73 | 306.23 | 12.21 | 303.50 | | |
| | | | | 302.7 298.5 | C50 | |
| 2+00 | | 4.2 | 302.0 | 301.1 296.9 | C51 | |
| 1+90 ⁵³ | EG | 4.5 | 301.7 | 300.8 296.6 | C51 | |
| +74.13 | | 4.8 | 301.4 | 300.4 296.2 | C52 | |
| +49.13 | | 5.7 | 300.5 | 299.8 295.6 | C49 | |
| +24.13 | | 6.6 | 299.6 | 299.2 295.0 | C46 | |

8-17-51

72

0+99 1/2 306.23 6.7 299.5 298.6
294.4

C51

CR ID 1181 312.04 6.00 300.23 = 300.27
p9.71

End Conc Drive
4320. MAN.

8-22-51

WATER METERS STAKED
Nor SIDE MANZANITA DR.

1+17 W 13.5 298.5 297.9

C06

0+37 W 11.4 300.6 299.9

C07

0+00 = B.C. Nor. Prop. Line

0+35 E 9.5 302.5 301.9

C06

0+81 1/2 F 8.6 303.4 303.3

C01

1+22 E 7.1 304.9 304.6

C03

1+61 E 5.6 306.4 306.0

C04

2+15 E 4.0 308.0 307.9

C01

P 2+75 E 6.90 317.08 1.86 310.18 309.9

C03

3+11 1/2 E 6.1 311.0 310.9

C01

3+63 1/2 (S) FH 4.65 312.43 312.2

C02

2.75 314.33 = 314.30

Nail in power pole
SW Cor MAN. DR & MAN. PLACE

WATER METERS SW Cor Glenfield &

Manzanita

8-24-51

TBM 0.25 314.59 314.34

65 Nor B.C. 6.4 307.2 308.5

F1?

72 So EC. 5.15 309.4 308.5

C09

275 Nor EC. 4.25 310.3 309.4

C09

8-17-51

73

⑤ STAKES SET FOR 6" MAIN
TUBEROSE ST. - 5' W & ST.
POPLAR TO MANZANITA

| | | | | | |
|------------------|--------------------------|--------|--------|-----------------------|-----|
| P | 6.37 | 295.76 | 289.39 | 29.48 | |
| 4+23 WYE = 16+07 | MANZANITA | 2.6 | 293.2 | $\frac{290.5}{286.7}$ | C65 |
| 4+00 | | 2.8 | 293.0 | 286.6 | C64 |
| +50 | | 3.8 | 292.0 | 286.3 | C57 |
| 3+00 | | 4.1 | 291.7 | $\frac{289.8}{286.0}$ | C57 |
| 2+50 | | 4.8 | 291.0 | $\frac{289.4}{285.6}$ | C59 |
| 2+00 | | 5.0 | 290.8 | $\frac{289.0}{285.2}$ | C56 |
| +894 | Nor. Side Alley | 6.3 | 289.5 | $\frac{288.7}{288.7}$ | C46 |
| +50 | | 7.1 | 288.7 | $\frac{288.4}{284.0}$ | C41 |
| 1+00 | | 8.0 | 287.8 | $\frac{288.0}{284.2}$ | C36 |
| +50 | | | | | |
| 0+00 | AT MAIN IN POPLAR ST. | 7.9 | 287.9 | CONN TO MAIN | |
| OK P | | 6.37 | 289.39 | | |

WATER METERS STAKED
63rd St. Broadway to Aiken

8-17-51
BEATTY
LEONARD
SEAVELLO

| | | | | | | | |
|-------------------|-------------------------------|--------|-------|--------|--------|--------------------|----------------------------------|
| BM | 0.78 | 333.63 | | 332.85 | | | |
| TP | 0.57 | 321.05 | 13.15 | 320.48 | | | 2.47. E 63 rd & Brdwy |
| TP | 0.23 | 308.19 | 13.09 | 307.96 | | | |
| 2+11 ⁴ | EAST | | 1.7 | 306.5 | 305.3 | C12 | (South ginnay) |
| 1+51 | WEST | | 10.7 | 297.5 | 300.0 | F25 | |
| 1+47 | WEST | | 10.85 | 297.3 | 299.9 | F26 | |
| 0+49 ⁵ | EAST | | 11.3 | 296.9 | 299.10 | F22 | |
| 0+00 | = Nor. Prop. Line WUNDERLIN | | | | | | |
| TP | 7.91 | 305.91 | 10.19 | 298.00 | | | |
| 0+00 | = SOUTH LINE WUNDERLIN | | | | | | |
| 1+54 | EAST | | 0.4 | 305.5 | 303.7 | C18 | (South ginnay) |
| 2+07 | WEST | | 3.8 | 302.1 | 300.2 | C19 | |
| 2+37 | EAST | | 3.4 | 302.5 | 298.0 | C45 | |
| 2+43 | WEST | | 6.1 | 299.8 | 296.7 | C31 | |
| TP | 0.25 | 292.93 | 13.23 | 292.68 | | | |
| 3+21 | EAST | 292.93 | 2.3 | 291.6 | 287.7 | C39 C29 | |
| 3+47 | WEST | | 7.65 | 286.3 | 284.5 | C18 C08 | |
| TP | 0.15 | 282.63 | 10.45 | 282.48 | | | |
| TP | 0.01 | 277.69 | 12.55 | 271.08 | | | |
| 0+00 | = So. Prop. Line Brooklyn Ave | | | | | | on Conc Wall 8-21-51 |
| 0+44 | WEST | | 4.6 | 266.5 | 264.7 | C18 C08 | South ginnay |
| TP | 0.12 | 258.33 | 12.88 | 258.21 | | | |
| 1+34 | EAST | | 0.8 | 257.5 | 254.3 | C22 C22 | north ginnay |
| 1+34 | WEST | | 1.2 | 257.1 | 254.1 | C20 C20 | " " |
| 2+35 | WEST | | 11.6 | 246.7 | 242.0 | C37 C37 | " " |
| TP | 0.10 | 245.35 | 13.08 | 245.25 | 237.2 | | |
| 3+14 | EAST | 244.15 | 9.5 | 234.9 | 237.4 | FL FL | C21 |
| TP | 0.18 | 232.92 | 13.21 | 232.14 | | | |
| 3+47 ⁵ | WEST | | 1.9 | 230.4 | 227.9 | C2E C1E | |

8-21-51

75

| | | | | | | |
|-------|-------------|--------|--------|-------|-----------------|---|
| | | 232.32 | | | | |
| IP | 4+35 West | 0.04 | 219.00 | 13.36 | 218.96 | 217.6 |
| | | | | | | 57 C04 |
| | 5+12 West | | | 9.5 | 209.5 | 207.5 |
| IP | | 0.07 | 205.82 | 13.25 | 205.75 | |
| | 5+40 East | | | 0.8 | 205.0 | 204.7 |
| | | | | | | 58 F03 |
| | 5+96 West | | | 5.5 | 200.3 | 199.9 |
| | | | | | | 59 F06 |
| | 6+50 East | | | 8.1 | 192.7 | 197.1 |
| | 7+50 East | | | 10.8 | 195.0 | 195.8 |
| | 7+59.5 West | | | 11.0 | 194.8 | 195.8 |
| | | | | | | 60 F09 |
| | 7+66 East | | | 11.0 | 194.8 | 195.8 |
| IP | | 5.25 | 200.28 | 10.79 | 195.03 | |
| | 8+02 East | | | 5.6 | 194.7 | 195.6 |
| | | | | | | 61 F12 |
| | 8+46 East | | | 6.5 | 193.8 | 195.5 |
| | | | | | | 62 F17 |
| | 9+20 West | | | 7.1 | 193.2 | 197.5 |
| | | | | | | 63 F20 |
| IP | | 11.76 | 211.74 | 0.30 | 199.98 | |
| IP | | 2.96 | 214.38 | 0.32 | 211.42 | |
| CK BM | | | | 0.69 | 212.69 = 212.72 | Top FH SE Cor 63 rd Imperial |
| | | | | | 212.69 | |

Aug. 24 1951
BEATTY
LEONARD
SEVELLO

76

④ STAKES SET FOR 6" MAIN
HANOVER ST.
ROSWELL TO GENEVA

| | | | | | | | |
|-------------------|-----------------|-----------|------|--------|------------|--------|-----|
| TOM | 13.20 | 256.75 | | 243.55 | | | |
| TH | 5.68 | 260.63 | 1.80 | 254.95 | | | |
| | | | 8.30 | 252.33 | | | |
| | | | | 251.5 | Prop. pipe | | |
| 0+00 | | | 4.3 | 256.3 | | 251.7 | |
| 0+44 ⁺ | 4.44 | Not LINE. | | | | | |
| +50 | | ROSWELL | 5.0 | 255.6 | | 51.2 | C44 |
| 1+00 | | | 4.7 | 255.9 | | 51.2 | C47 |
| +50 | | | 4.8 | 255.8 | | 51.2 | C46 |
| 2+00 | | | 5.5 | 255.1 | | 49.9 | C52 |
| +50 | | | 6.4 | 254.2 | | 48.5 | C57 |
| | | | 5.3 | 255.3 | | | |
| 2+81 | ⑤ F.H. | | 6.4 | 254.2 | | | C61 |
| 3+00 | 2.09 | 255.46 | 7.26 | 253.37 | | 47.1 | C63 |
| +50 | | | 4.0 | 251.5 | | 45.8 | C57 |
| 4+00 | | | 6.1 | 249.4 | | 44.4 | C50 |
| +50 | | | 6.9 | 248.6 | | 43.1 | C55 |
| 5+00 | | | 6.6 | 248.9 | | 42.6 | C63 |
| +50 | | | 5.6 | 249.9 | | 43.0 | C69 |
| 6+00 | | | 5.0 | 250.5 | | 43.2 | C73 |
| +50 | | | 4.6 | 250.9 | | 43.6 | C73 |
| 7+00 | | | 5.0 | 250.5 | | 43.9 | C66 |
| 7+31 ⁺ | = 50. Prop LINE | GENEVA | | | | | |
| +51 | TEE | | 6.8 | 248.7 | | 244.0 | C47 |
| ① | 5.92 | 260.55 | 0.83 | 254.63 | | | |
| | | | 5.55 | 255.00 | = | 254.95 | |

Top F.H. Roswell & Selma
SIDEWALK NW Cor Hanover & Roswell
Top H. 6" Gate Val. 0-0A

RELOCATION & GRADE FOR
5-FIRE HYDRANTS

69th & Mandalay 69th & Saranac
69th & Mohawk 68th & Mohawk 67th & Mohawk

8-24-51
DEATY
LEONARD
SEAVELLO

71

| | | | | | |
|--------|------|--------|-------|--------|---|
| BM | 0.49 | 461.49 | | 461.00 | Cor Conc porch SE Cor 69 th & Mandalay |
| IP | 8.58 | 469.42 | 0.65 | 460.84 | EXIST Top F.H. Saranac & 69 th |
| | | | 10.25 | 459.17 | 456.75 (5) New location F.H. SE Cor 69 th & Saranac C242 |
| IP | | | 6.67 | 462.75 | 462.44 (5) " " F.H. SW Cor 69 th & Mohawk C031 |
| BM | 2.65 | 463.65 | | 461.00 | Cor Conc Porch. |
| | | | 4.86 | 458.79 | 456.50 (5) " " F.H. SE Cor. 69 th & Saranac C30 |
| IP | 2.79 | 465.54 | | 462.75 | |
| IP | 6.18 | 461.47 | 10.25 | 455.29 | Top Exist F.H. |
| | | | 8.46 | 453.01 | 449.55 (5) " " F.H. SE Cor 68 th & Mohawk C35 |
| IP | 3.58 | 456.66 | 8.39 | 453.08 | Top Exist F.H. |
| | | | 5.79 | 450.87 | 449.8 (5) " " F.H. SE Cor 67 th & Mohawk C1 |
| CK BM | | | 2.89 | 453.77 | 453.79 BR SW Cor 67 th & EL CAJON BLVD. |
| IP | 2.40 | 465.15 | | 462.75 | |
| IP | 0.08 | 452.26 | 12.97 | 452.18 | |
| | | | 8.50 | 443.76 | 443.45 (5) New Location F.H. 68 th & Saranac. C03 |
| SET IP | | | 8.21 | 444.05 | Nail in pole SW Cor 68 th & Saranac #267187H. |

Sept. 14th 1951

492
463

Nov. 3 1950
BETTY
LEONARD

ELEVATIONS TOP OF EXISTING
6" C.I. WATER MAIN
63rd ST - Northwardly from MONTEZUMA

| | | | |
|---|------|--------|-----------------|
| BM | 6.60 | 456.43 | 449.83 |
| HP | 2.99 | 452.77 | 6.65 449.78 |
| HP | 9.01 | 459.22 | 2.56 450.21 |
| 0+00 = Intersection 63 rd & Montezuma. | | | |
| 0+65 ² | | 6.57 | 452.65 |
| 0+87 ² | | 6.19 | 453.03 |
| 1+29 ² | | 4.81 | 454.41 |
| 1+68 ² | | 4.73 | 454.49 |
| 2+01 ² | | 5.10 | 454.12 |
| 2+44 ² | | 5.32 | 453.90 |
| 2+81 ² | | 5.30 | 453.92 |
| 3+39 ² | | 5.56 | 453.66 |
| 4+01 ² | | 5.90 | 453.32 |
| 4+72 ² | | 6.50 | 452.72 |
| CR BM | | 0.52 | 458.70 = 458.65 |

78
P.P. NE Cor. MONTEZUMA & COLLEGE

on curb

on curb

Top 6" C.I. MAIN 10' RT. & ST

" " " " " " "

"

"

"

"

"

"

"

"

Top P.H. SE Cor 63rd & Montezuma

BM

IP

IP

0+00

0+65

0+87

1+29

1+68

2+01

2+44

2+81

3+39

4+01

4+72

CR 81

208.21) 1718.87

$$\begin{array}{r}
 8,2554 \\
 165568 \\
 \hline
 53190 \\
 41648 \\
 \hline
 115480 \\
 104105 \\
 \hline
 113750 \\
 104105 \\
 \hline
 96450
 \end{array}$$

SELMA NOR

2+06 W

1+66 W

1+05 W

SELMA SO

0+59 E

1+65 E

2+28 E

0+60 W

2+26 W

3+77.5 W



4+77 SO
 5+67 SO
 6+17 SO
 6+84 SO
 7+05

5+26 25-20-58 NOR
 5+83 NOR
 7+20 " "
 7+64 NOR
 8+77 NOR
 9+58 " "
 9+91 " "
 10+45 " "

3-26-23
 206.38
 8.2554
 920
 330216
 165108
 742986
 76279896

1016'17
 3-26-23
 4-42-40
 3-26-23
 8-19-03
 3-26-23
 11-35-26
 3-26-23
 15-01-49
 2-26-23
 18-25-12
 3-26-23
 21-54-25
 3-26-23

200) 6.33
+25) 5.01
+10) 4.06
+75) 3.80
800) 3.34

5.04
509 .35
448 61

6283
6187
96

06

71

10+27 = 3.63

10+52 = 4.53

10+77 = 4.93

11+02 = 5.28

11+27 = 4.97

4.65

4.43

4.26

17

39

-15 = 16071

+17 160807

10

66

BM
 IP
 P
 0+00
 0+65
 0+87
 1+29
 1+68
 2+0
 2+4
 2+8
 3+3
 4+6
 4+
 CK

City Datum
 Hilltop Drive
 42nd SWBP 152.94
 Morrison " 157.60
 41st " 157.66
 Raven " 171.33
 40th " 180.08
 Quail " 170.71
 39th " 166.53

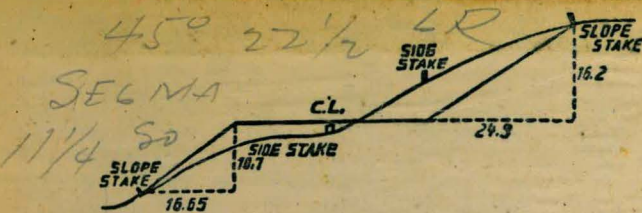
0-16
 3+956
 4PT 4+1925
 192.0

196.4
 192.5
 2.9

196.4
 193
 3.4

30.75
 23.5
 33.10

3+35 E
 2+928 W
 2+04 W
 1+80 E
 1+36 W
 1+32 E
 1+07 W
 0+655 W



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 | 71.20 | 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 |