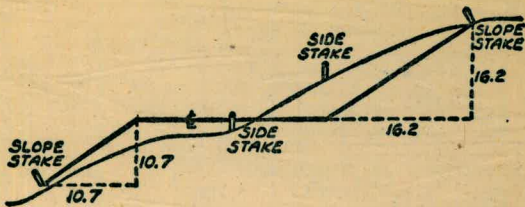


W903



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

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

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

F04 4.4 40

44 42

F06 4.9 43

7.8
4.1
3.7

300
268

2732

3

300
54.8

2452

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	.57	.63	.68	.74
20°	.06	.13	.19	.26	.32	.39	.45	.51	.58	.65	.72	.79	.84	.90
25°	.08	.16	.24	.33	.40	.49	.58	.67	.75	.83	.90	.99	1.06	1.14
30°	.10	.19	.29	.39	.49	.59	.69	.79	.89	.99	1.09	1.20	1.29	1.39
35°	.11	.22	.34	.47	.58	.69	.79	.89	1.01	1.11	1.21	1.32	1.42	1.54
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	1.92	2.30	2.68	3.06	3.45	3.84	4.24	4.64	5.05	5.46
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	.037	.043	.049	.055	.061	.067
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

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alice

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alice

alice

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B⁵⁶ Alley E of Edgemont
to 34th St

West
Williams X
Varonakis
Kullhofer †

1/25/55

11.08 117.63 106.55

NW BP Men 33rd + Broadway

12.73 130.07 0.29 117.34

12.38 141.80 0.65 129.42

12.75 154.40 0.15 141.65

10+50 9.77 144.62 134.3

C10 $\frac{3}{8}$

+98 mN 10.6 143.8 139.0

C4 $\frac{8}{1}$

+55 FH Tee 9.3 145.1 135.0

C10 $\frac{0}{2}$

+55 (5th) RFH 9.0 145.4 139.4

C6 $\frac{2}{3}$

11+00 4.6 149.8 140.6

C9 $\frac{3}{1}$

+15 mN 3.6 150.8 147.5

C3 $\frac{1}{3}$

+50 12.73 167.04 0.09 154.31 147.1

C7 $\frac{3}{0}$

+58 mN 11.9 155.1 152.8

C2 $\frac{0}{2}$

+94 mS 9.0 158.0 157.0

C1 $\frac{2}{9}$

12+00 8.2 158.8 153.6

C5 $\frac{1}{9}$

+50 mS 1.3 165.7 163.8

C1 $\frac{1}{5}$

+51 1.7 165.3 160.2

C5 $\frac{1}{7}$

12.54 179.36 0.22 166.82

+90 mS 2.2 172.3 168.1

C4 $\frac{2}{7}$

13+00 6.4 173.0 165.3

C7 $\frac{2}{7}$

Bst Cont.

2

13+50 mN	179.36	1.1	178.3	175.0
13250		2.5	178.9	169.7
9.90	187.23	0.53	178.83	
14+00		7.9	179.3	172.9
+01 mN		5.9	181.3	177.5
+30 m _s		6.9	180.3	178.4
+39 mN		4.5	182.7	179.4
+50		6.3	180.9	175.2
+55 mN		3.8	183.4	179.8
15+00		6.2	181.0	176.2
+02 mN		4.4	182.9	180.8
+50		5.7	181.5	176.2
+53 mN		3.8	183.4	180.6
16+00		4.2	183.0	175.0
+15 m _s		4.6	182.6	178.4
+50		7.0	180.2	173.0
+92		12.5	179.7	170.0
		10.46	176.77	=176.83

C3 ³	
C7 ²	
C6 ⁴	
C3 ⁸	
C1 ⁹	
C3 ³	
C5 ¹	
C3 ⁶	
C4 ⁸	
C2 ⁰	
C5 ³	
C2 ⁸	
C2 ⁰	
C8	
C7 ²	C4 ⁸
C4 ¹	

14+00	181.7
179.9	8.0
2.4	179.7
181.7	
1.8	181.7
176.9	3.4
	178.3

Turn on back Mon 16+68 62

Bst Cont
 5725 for 8" AD

B.M	12.37	194.50		182.13
T.P.	12.51	206.47	0.54	193.96
2+17			1.2	205.3 200.2
+50			4.9	201.6 192.7
+75			12.5	194.0 187.2
T.P.	0.19	193.91	12.75	193.72
3+00			7.9	186.0 180.8
+25			11.7	182.2 175.8
T.P.	0.66	181.96	12.61	181.30
+50			1.3	180.7 174.6
+70			3.4	178.6 173.7
+92			7.3	174.7 171.4
+92			3.5	178.5 176.5
4+00			8.4	173.6 169.0
T.P.	0.37	169.38	12.95	169.01
+25			2.1	167.3 162.0
+50			8.9	160.5 153.6
T.P.	0.23	156.60	13.01	156.37
+75			4.2	151.4 145.4

WEST
 WILLIAMS X
 VARONFAKIS †
 KELLHOFER

3

1/25/55 Cloudy

Turn SPK. PP 32 ND B S.W. CORN.

C5	¹		♀
		BEGIN WORK	
C8	²		5.0
C6	⁸		12.9
C5	²		8.2
C6	⁴		11.8
C6	¹		2.1
C4	²		3.7
C3	³	FH TEE	7.2
C2	⁰	(5) FH	
C4	⁶		8.4
C5	³		2.1
C6	⁹		8.8
C7	⁰		4.0

B. ST. CONT.

4

T.P. 156.60
 5+00 0.47 144.26 12.81 143.79 137.4
 +25 8.9 135.4 128.8

T.P.
 +37.5 0.23 132.89 12.40 131.86 125.4

+50 3.4 128.7 123.4

T.P.
 6+00 2.41 122.22 12.28 119.81 115.8

+25 6.5 115.7 111.9

+50 10.3 111.9 108.9

+62 11.4 110.8 108.9

+87.5 10.4 111.8 108.9

7+00 7.7 114.5 108.9

+25 1.3 120.9 117.0

12.59 134.69 0.12 122.10

+50 9.3 125.4 120.5

+75 6.0 128.7 122.0

8+00 3.5 131.2 122.1

+25 MN 2.5 132.2 126.8

+49 MN 3.3 131.4 128.5

+50 2.9 131.8 122.2

+92 MN 4.0 130.7 131.2

11/25/55
 C6 $\frac{4}{4}$ 12.6

C6 $\frac{6}{6}$ 8.9

C6 $\frac{5}{5}$ 12.2

C5 $\frac{3}{3}$ 3.5

C4 $\frac{0}{0}$ 12.3

C3 $\frac{8}{8}$ 6.4

C3 $\frac{0}{0}$ 10.3

C1 $\frac{9}{9}$ 11.2

C2 $\frac{9}{9}$ 10.3

C5 $\frac{6}{6}$ 7.7

C3 $\frac{9}{9}$ 1.3

C4 $\frac{9}{9}$ 9.2

C6 $\frac{7}{7}$

C9 $\frac{1}{1}$

C5 $\frac{4}{4}$

C2 $\frac{9}{9}$

C9 $\frac{6}{6}$

F0 $\frac{5}{5}$

Begin core course

end " "

B. ST. CONT.

134.69

1/25/55

9+00	134	121.3	122.4	F1	<u>1</u>	
+25	9.4	125.3	123.5	C1	<u>3</u>	
+50	3.5	131.2	126.6	C4	<u>4</u>	
+ 1263	145.64	1.68	133.01			
+75	10.7	134.9	130.5	C4	<u>4</u>	
10+00	7.8	137.8	132.6	C5	<u>2</u>	
	0.94	144.70	=	144.63		Turn on Binney 10+50

new cuts 8+50 to 9+25

	7.7	133.0	126.3	122.4	C2	<u>9</u>	125.3
9+00	100	123.0	121.1		C1	<u>2</u>	<u>36</u>
9+75	4.6	128.4	121.1		C7	<u>3</u>	121.7

1330
12
3318

Qst 33rd to 34th
Stks for 6" AC main

West
Williams T
Varonakis
Kellhofer &

Clear + Warm

6

11/26/54

0.75 176.58 176.83

Turn on cone man 16+68¹³ Bst

0.21 145.14 12.65 164.93

0.14 152.45 12.83 152.31

0.25 140.38 12.32 140.13

0+20 10.5 129.9 129.7

052

Begin work

6.54 136.19 10.73 129.65

Turn on rail on RR. 5' 11" + 6 1/2

0+50 9.2 127.0 122.4

046

+62 ms 13.2 123.0 129.0

F 62

+75 10.9 125.3 121.9

031

1+00 6.5 129.7 123.6

061

+25 3.0 133.2 126.6

066

11.54 147.55 0.18 136.01

+50 11.1 136.5 130.9

056

2+00 7.6 140.0 136.1

039

+38 ms 8.5 139.1 141.7

F 26

+50 4.4 143.2 138.7

045

+60 mn + 1.2 148.8 143.0

058

3+00 2.6 145.0 140.0

052

2.66 147.94 2.27 145.28

+50 mn + 2.7 150.6 143.9

062

Cst Cont

147.94

3+50

3.4 144.5 139.9

C 4⁶

4+00

7.1 140.8 137.3

C 3⁵

+16 m N

3.8 144.1 141.9

C 2²

+50

9.7 138.2 135.0

C 3²

5+00

11.1 136.8 132.0

C 4²

+58 m N 0.35 137.77

10.52 137.42 131.6

C 5²

+50

3.4 134.9 128.0

C 6⁴

123.5

+87 m N

4.3 133.5 129.4

C 4¹

6+00

7.4 130.4 123.0

~~C 7⁴~~ C 6³

+46 m S

12.6 125.2 124.4

C 0⁸

+50 FH Tee

12.7 125.1 120.1

C 5⁰

+

0.64 125.68 127.3 125.04

Turn on FH Tee (Ginney)

+50 (5) FH Tee

1.8 123.9 124.0

F 0¹

+58 m N

125.8 123.5

C 3²

+60

1.7 124.0 118.4

C 4⁶

end of Work

2.14

114.88

129.4 112.74

8.24 106.64 = 106.55

N.W.B.P. Mon. 33

RD

Bowly.

T.B.M.

1.89

126.93

125.04

6+50 F.H. TEE

1/31/55

7+00

5.8 121.1 117.2

C 3¹

+20

7.8 119.1 116.2

C 2¹

Re Ben Huntington, rd
West Prop Line 33

1.89 124.04 = 125.04

1/26/55

125.04
5.0

130.
4.0
125.8

33rd St Imperial to Kst
 stks for 6" AB Main + Motors

	29.92	29.94	27.02
0+93		3.4	26.5 22.9
+93		6.3	23.6
1+00		3.5	26.4 22.7
+28 mE		4.4	25.5 26.3
+50		4.6	25.3 21.6
2+00		5.3	24.6 21.0
+50		5.6	24.3 20.9
+58 mE W ⁹		5.2	24.7 25.1
+93 mE		4.5	25.4 25.1
3+00		5.2	24.7 20.9
+11 mW		4.7	25.2 25.1
+50		4.7	25.2 20.8
+70 Cross		4.4	25.5 20.9
4+00		4.2	25.7 21.3
+14 FH Jcc		4.1	25.8 21.4
+14 (5) FH		3.7	26.2 25.3
+50		3.8	26.1 21.8
+52 mE 506	31.94	3.06	26.88 25.8

West
 Williams X
 Varentakis &
 Kullhoter

1/27/55 Sunny + WARM

SE 1+T Imperial

03⁶

Top end of existing 6" Main

C3 ⁷

F0 ⁸

C3 ⁷

C3 ⁶

C3 ⁴

F0 ⁴

C0 ³

C3 ⁸

C0 ¹

C4 ⁴

C4 ⁶

C4 ⁴

C4 ⁴

C0 ²

C4 ³

C1 ¹

33rd St Cont

9

31.94

1/27/55

5+00	5.4	26.5	22.2	C4	$\frac{3}{}$
+08 mw	5.2	26.7	26.4	C0	$\frac{3}{}$
+50	4.7	27.2	22.4	C4	$\frac{8}{}$
+99 mw	4.3	27.6	27.3	C0	$\frac{3}{}$
6+00	4.4	27.5	23.0	C4	$\frac{5}{}$
+92 mw	3.7	28.2	27.8	C0	$\frac{4}{}$
+50	3.8	28.1	23.6	C4	$\frac{5}{}$
+99 ms	3.7	28.2	27.8	C0	$\frac{4}{}$
7+00	3.4	28.5	24.2	C4	$\frac{3}{}$

4.64 31.01 6.57 25.37

3.01 27.00 = 27.02

2st
33rd St East + West

T.B.M.	3.16	30.04	26.88
Stations East From East Prop			
0+00	4.6	25.4	20.8
+50	4.3	25.7	20.6
+64 M.N.	4.0	26.0	24.9
+74 M.S.	4.3	25.7	24.5
1+00	4.3	25.7	20.5
+20 M.N.	4.1	25.9	24.6
+42 M.S.	4.0	26.0	24.2
+50	4.1	25.9	20.3
+74	3.8	26.2	20.2
± 33 RD	4.3	25.7	20.9

STATIONS WEST FROM WEST PROP

0+00	5.0	25.0	21.0
+23 M.N.	4.2	25.8	25.4
+50	5.0	25.0	21.1
+59 M.N.	4.4	25.6	25.5
+80 M.S.	4.8	25.2	25.2
+83 M.N.	4.4	25.6	25.5

West
Williams
Varonokus
Kellhofer

10

1/27/59

Binney 4+52 meter-East (PAGE 8)

Line 33rd St

C4⁴

C5¹

C1¹

C1²

C5²

C1³

C1⁸

C5⁶

C6⁰

C4⁸

END WORK

± 33RD ST

30.04

1/27/55

1+00	4.8	25.2	21.2
+21 M.N.	4.3	25.7	25.6
+28 M.S.	4.5	25.5	25.3
+50	4.7	25.3	21.3
+73 M.N (Two)	4.1	25.9	25.7
+75 M.S.	4.3	25.7	25.4
2+00	4.8	25.2	21.4
+20 M.S.	4.4	25.6	25.5
+27 M.N.	4.2	25.8	25.8
+50	4.7	25.3	21.5
+79 M.N.	4.4	25.6	26.0
+81 M.S.	4.4	25.6	25.7
3+02	4.7	25.3	21.7
T.P. 1079 3630	4.53	25.51	
3+16 mN	10.6	25.7	26.1
+26 mS	10.7	25.6	25.7
+50	10.7	25.6	21.8
+64 mN	8.6	27.7	26.2
3+90 FH Tot	7.4	28.9	21.8
+90 @ 4 FH	7.4	28.9	26.0
4.76 30.04	10.92	25.88	
	318	26.86	

C4⁰
 C0¹
 C0²
 C4⁰
 C0²
 C0³
 C3⁸
 C0¹
 C0⁰
 C3⁸
 F0⁴
 F0¹
 C3⁶

STK METER 2+52+

F0⁴
 F0¹
 F0⁸
 C3⁸
 C1⁵
 C7¹
 C2⁹

end of work

= 26.88

33rd St F to Broadway
 Stks for 8" AC Main + Meters

0.74	107.29	106.55	
1.49	96.02	12.76	94.53
0+80		9.5	86.5 82.6
1+00		8.7	87.3 83.2
+50		6.9	89.1 84.8
2+00		6.1	89.9 85.3
+04 ME		4.7	91.3 89.1
+50		5.2	90.8 85.8
+70 Tee		4.7	91.3 86.0
3+00		4.5	91.5 86.3
+50		4.6	91.4 86.8
4+00		4.3	91.7 87.4
+11 Tee		4.3	91.7 87.6
+38 ME		3.7	92.3 91.8
+50		3.8	92.2 88.3
+52 ME			92.3 91.9
5+00		3.3	92.7 89.4
+31 Tee		2.2	93.8 89.9
+38		2.0	94.0 90.2
+50		1.5	94.5 90.7
12.91	108.00	0.93	95.09

West
 Williams X
 Varonfakis +
 Kellhofer

12

1/28/55 CLEAR + WARM

BM NW Plus man 33rd + Broadway

C3	$\frac{9}{1}$	Begin Work
C4	$\frac{1}{3}$	
C4	$\frac{3}{6}$	
C4	$\frac{6}{2}$	
C2	$\frac{2}{0}$	
C5	$\frac{0}{3}$	
C5	$\frac{3}{2}$	
C5	$\frac{2}{6}$	
C4	$\frac{6}{3}$	
C4	$\frac{3}{1}$	
C4	$\frac{1}{5}$	
C0	$\frac{5}{9}$	
C3	$\frac{9}{3}$	CO2
C3	$\frac{3}{9}$	
C3	$\frac{9}{8}$	
C3	$\frac{8}{8}$	
C3	$\frac{8}{8}$	

33RD ST. CONT.Cut sheet
made

13

108.00

1/28/55

5+86 ME 10.4 97.6 96.2

C1 ⁴/₈

+87 MW 10.7 97.3 96.5

C0 ⁸/₈

6+00 9.6 98.4 93.3

C5 ¹/₈

+92 MW 7.2 100.8 99.0

C1 ⁸/₈

+50 6.0 102.0 95.9

C6 ¹/₈

+95 ME 4.8 103.2 101.7

C1 ⁵/₈

7+00 4.7 103.3 98.5

C4 ⁸/₈

+02 MW 3.3 104.7 102.1

C2 ⁶/₈

+48 ME 2.5 105.5 104.9

C0 ⁶/₈

+50 2.7 105.3 101.2

C4 ¹/₈

+97 1.8 106.2 101.8

C4 ⁴/₈

End of Work

1.5 106.55 =

106.55

7+ 1471 Td

58
52.5

105.5

+ ② RPH 3.1 104.9 104.91

0 0⁸/₈

BONITA PIPELINE

4.96 111.51 106.55

MON. N.W. 33RD B.P.W.Y.

9.12 102.39

TOP BONITA LINE

CHECK
B.M.

4.96 106.55

Est 32nd to 33rd
 strks for 6" AC Main out shown made

West
 Williams X
 Varonfakis
 Kullhoten &

19

1/31/55 PARTLY CLOUDY

B.M.	1.77	108.32	106.55
T.P.	2.40	97.73	12.99 95.33
T.P.	4.51	103.78	0.46 97.27
0+55		0.5	103.3 100.0
+86 mn		28	101.0 104.6
1+00		6.5	97.3 94.0
+25		8.9	94.9 91.0
+53 mn		91	94.7 96.3
+50		10.5	93.3 89.0
+80 ms		11.3	92.5 93.1
2+00	1.40	92.64	12.54 91.24 87.4
+09 ms		1.9	90.7 91.0
+35 mn		1.2	91.4 90.0
+50		3.2	89.4 85.4
+59 ms		3.4	89.2 88.4
+65 mn		1.2	91.4 88.6
3+00		3.9	88.7 82.8
+50		7.1	85.5 80.3
+89 ms		11.5	81.1 83.2

C3	<u>3</u>	Begin work
F3	<u>6</u>	
C3	<u>3</u>	
C3	<u>9</u>	
F1	<u>6</u>	
C4	<u>3</u>	
F0	<u>6</u>	
C3	<u>8</u>	
F0	<u>3</u>	
C1	<u>4</u>	
C4	<u>0</u>	
C0	<u>8</u>	
C2	<u>8</u>	
C5	<u>9</u>	
C5	<u>2</u>	
F2	<u>1</u>	

E. ST. CONT.

15

92.64

4+00 120 80.6 77.6

+50 129 80.7 76.5

+75 12.9 80.2 76.5

5+00 6.0 86.6 78.0

7.80 99.36 1.08 91.56

+25 6.3 93.1 82.0

+50 5.0 94.4 84.8

6+00 6.2 93.2 86.2

+10 MN 6.2 93.2 90.8

+29 MS 7.1 92.3 90.5

+50 7.6 91.8 86.9

7+00 7.56 91.81 87.6

9.88 107.98 1.26 98.10

1.49 106.49 = 106.55

1/31/55

C3 0C4 2C3 7C8 6C11 1C9 6C7 0C2 4C1 8C4 9C4 2C4 2

Turn on E.H. SE of 3rd Pickwick

Udal St

out sheet OK

Warrington to Worden

Stks for Gth AC MainWEST
WILLIAMS T
VARONFAKIS P
KELLHOFER

16

2/1/55

see PB878 P36

Turn on cone Man 20' at 0+50

	1.53	89.13		87.60			
0+13 ⁴²			1.9	87.2	83.4	C3 ⁸	Begin work
+41 ²²			2.3	86.8	83.2	C3 ⁶	45° Bend
+50			3.2	85.9	83.0	C2 ⁹	West Property line Warrington
1+00			4.4	84.7	81.6	C3 ¹	
+50			5.6	83.5	80.2	C3 ³	
2+00			6.9	82.2	78.8	C3 ⁴	
+50			8.1	81.0	77.4	C3 ⁶	
3+00			9.5	79.6	76.1	C3 ⁵	
+15 FH Tee			10.0	79.1	75.7	C3 ⁴	
Curb			9.2	79.9			
+15 (3) FH			8.0	81.1	79.9	C1 ²	
+50			10.9	78.2	74.6	C3 ⁶	
+65			11.2	77.9	74.3	C3 ⁶	90° BEND
+70			11.1	78.0	74.2	C3 ⁸	
+90			10.9	78.2	73.7	C4 ⁵	
			15.3	87.60	=87.60		

1815 St

CJ shoot
modeHunter St to 165' south of Hunter
Stks for 6" AC main

5.79 274.81

269.02

0+35

4.5 270.3 266.3

+50

4.5 270.3 266.0

1+00

5.8 269.0 264.8

+50

7.3 267.5 263.5

2+00

9.0 265.8 262.2

5.78 269.03 = 269.02

West
Williams T
Varon Polaris
Kellhofer +

17

21, 155

BM SW BP Hunter + Jackdaw

C4 ⁰ Begin workC4 ³C4 ²C4 ⁰C3 ⁶

end of work

Castellar 56
Soto to Etowanda

cut sheet
made

1.95	35.03	33.68	
0+20		3.0	32.0 26.9
+50		3.5	31.5 26.7
1+00		4.1	30.9 26.8
+50		4.3	30.7 26.9
2+00		4.2	30.8 27.1
+50		3.6	31.4 27.6
3+00		3.1	31.9 28.3
+28		2.7	32.3 28.6
		1.36	33.67 = 33.68

1.33	35.01	33.68	
0+71 ms		3.4	31.6 31.2
1+60 ms		3.9	31.1 32.0
2+42 ms		2.9	32.1 32.5

West
Williams X
Kellhofer
Varonakis ♀

18

HIGH WIND 2/2/55

BM BP West Cb Castellar + Etowanda

0 5 1
0 4 8
0 4 1
0 3 8
0 3 2
0 3 8
0 3 6
0 3 2

Begin work
end of work

34th St
B^{5th} to Broadway

Cut sheet
made

Corrected elev

West
Williams T
Varonfakis &
Kallhofer

2/2/55

19

	1.72	178.45	176.73		Turn on Cond man
0+50		4.6	173.9	170.0	C3 <u>1</u>
+78 ME		8.2	170.3	173.5	F3 <u>2</u>
+80 FH Tot		7.2	171.3	168.0	C3 <u>3</u>
+80 (5) FH		9.7	168.8	173.3	F4 <u>5</u>
1+00		8.6	169.9	166.5	C3 <u>4</u>
	1.93	167.30	1308	165.37	
+50		2.9	164.4	159.6	C4 <u>8</u>
2+00		9.0	158.3	152.6	C5 <u>1</u>
	0.31	154.73	12.91	154.39	
+42 ME		3.1	151.6	150.1	C1 <u>5</u>
+50		4.1	150.6	145.5	C5 <u>1</u>
3+00		9.0	145.7	138.4	C7 <u>3</u>
	0.32	142.55	12.50	142.23	
+50		2.3	140.3	131.1	C9 <u>2</u>
+75		5.4	137.2	128.2	C9 <u>0</u>
4+00		8.9	133.7	126.1	C7 <u>6</u>
	0.10	130.28	12.37	130.18	
+32 Tee		1.0	129.3	124.3	C5 <u>0</u>

Begin work

34TH ST CONT.

130.28

4+50	3.7	126.6	122.0
+68 FH TCO	6.6	123.7	119.2
+68(B) FH	6.1	124.2	126.2
+89 ME	9.1	121.2	123.5
5+00	11.5	118.8	114.4

0.14 117.65 1277 11751

+50	4.5	113.2	109.1
6+00	8.7	109.0	105.8
+125	9.8	107.9	105.0
+25	10.5	107.2	103.3
+50 0.32	105.61	1236	105.29 101.3
7+00	3.6	102.0	97.0
+50	6.3	99.3	92.7
+59 ME	6.7	98.9	95.4
+61	6.6	99.0	91.6

9.69 109.34 5.96 99.65

2.80 106.54 =

20

WINDY 2/2/55

C4 ⁶C4 ⁵F2 ⁰F2 ³C4 ⁴C4 ¹C3 ²C2 ⁹C3 ⁹C4 ⁰C5 ⁰C6 ⁶C3 ⁵C7 ⁴

End of work

10655

50 TO 51
Green to Castellar
STKS FOR 6" A.C MAIN

Cut short
made

	1.33	35.01		33.68
	11.66	43.93	2.74	32.27
	12.60	56.01	0.52	43.41
	7.55	62.34	1.22	54.79
0+20			2.3	60.0 54.4
+50			3.7	58.6 54.0
1+00			7.6	54.7 51.0
+34 m NW			9.9	52.4 52.8
+50			10.3	52.0 48.1
+84 m NW	0.73	50.72	12.35	49.99 49.8
2+00			1.4	49.3 45.1
+42 m NW			4.0	46.7 46.3
+50			4.0	46.7 42.2
293 m NW			6.3	44.4 43.4
3+00			6.6	44.1 39.7
+38 m NW			8.8	41.9 41.3
+50			9.0	41.7 37.2
+85 m NW			11.0	39.7 39.4
4+00	0.07	39.44	11.35	39.37 35.6

West
Williams X
Varonfakis
Kellhofer

21

2/9/55 CLEAR + COLD

1371 BP West Ob Castellar + Etowanda

	4	
C5	4	Begin work
C4	4	
C3	7	
F0	4	
C3	9	
C0	2	
C4	2	
C0	4	
C4	5	
C1	0	
C4	4	
C0	6	
C4	5	
C0	3	
C3	8	

39.44

2/3/55

4+00 1.7 37.7 34.0

C3 ¹

+54 mNW 1.9 37.5 37.2

C0 ³

5+00 3.3 36.1 32.5

C3 ⁶

+40 mNW 4.2 35.2 34.6

C0 ⁴

+50 4.6 34.8 31.0

C3 ⁸

6+00 6.0 33.4 29.4

C4 ⁰

+37 FH Tee 7.0 32.4 28.2

C4 ²

+37 (S) FH 6.0 33.4 32.2

C1 ²

+50 7.3 32.1 27.8

C4 ³

+78 3.36 35.15 7.65 31.79 26.8

C5 ⁰

end of work

1.43 33.22 = 33.68

Plum St
Fendon to Dickens

cut sheet
made

STKS for 6" AC Main

1-	1285	109.64	96.79	
0+70			10.6	99.0 95.8
+78 FH Jm			10.3	99.3 96.0
+78 (S) 2FH			11.0	98.6 100.0
1+00			8.8	100.8 97.4
+50			6.8	102.8 99.4
+76 InF			7.7	101.9 103.6
2+00			6.3	103.3 100.6
+40 mw			3.37	106.27
+50			2.8	106.8 101.6
3+00			1.5	108.1 104.7
	1202	121.20	0.46	109.18
+06 mw			10.75	110.45
+50			5.2	116.0 108.4
	7.47	128.47	0.20	121.00
3+79 mw			9.5	119.0 115.4
A+00			7.1	121.4 113.0
+50			3.2	125.3 115.1
+75			3.1	125.4 119.4
5+00			4.4	124.1 122.1
	1706	140.50	0.23	128.44
			6.49	134.01 = 134.09

West
Williams &
Varonfakis
Kellhofer

23

2/4/55

Sewer MH from Sec F13 871 Page 1

C32
C33
F14
C34
C34
F12
C22
C0° on Curb
C52
C34
C0° on Curb
C7 1/2
C34
C84
C102
C60
C22
JW B.P. Plum & Carlton

Dickens St
Plum to Clave
Stks for 6" AO Main

Bit shed
made

West
Williams &
Varonakis
Kellhofer &

24

2/4/03 Sunny & Cold

6.00/40.09	134.09		
0+95	2.0	133.1	126.6
1+00	6.2	133.9	127.2

SWBP Carlton & Plum
C6⁵ Begin work by contractor
C6¹

1201 150.36 1.79 138.35

C4⁶

+50	14.0	136.4	131.8
+66 m NE	11.6	138.8	136.3
+68 m SW	12.7	137.7	136.3
2+00	8.8	141.6	136.3

C2⁵

3428

C1⁴

3419

C5³

+10 m NE	6.4	149.0	141.5
+50	3.7	146.7	141.0
+55 m SW	3.3	147.1	144.7
+63 m NE	2.0	148.4	145.8

C2⁵

3420

C5⁷

C2⁴

3427

C2⁶

3428

8.94 157.60 1.70 148.66

3+00	6.4	150.7	144.4
+13 SW	6.3	151.3	148.7
+50	5.4	152.2	147.1
+63	6.1	151.5	147.8

C6³

C2⁶

3435

C5¹

C3⁷

end of work

Cont on Carlton St
see next page

Carlton St
 Plum to above cut sheet
 made
 stks for 6" AC 110in
 15760

Wast
 Williams X
 Varonfaks
 Kollhofer +

2/4/55

	0.79	150.94	7.45	150.15
3+93			1.7	149.2 145.8
3+50			3.5	147.4 143.5
3+00			6.0	144.9 141.0
2+50			8.5	142.4 138.6
2+00			10.9	140.0 136.1
	0.73	139.69	11.98	137.96
1+50			2.3	137.4 133.7
1+00			4.8	134.9 131.3
0+80 FH Tee			5.6	134.1 130.6
Top of CB			4.85	134.84
0+80 BRFH			4.7	135.0 134.8
0+50			6.4	133.3 129.8
0+00			7.8	131.9 128.3
			5.60	134.09 =

C3	$\frac{4}{9}$	end of work
C3	$\frac{9}{8}$	
C3	$\frac{8}{9}$	
C3	$\frac{9}{7}$	
C3	$\frac{7}{6}$	
C3	$\frac{6}{5}$	
C0	$\frac{5}{4}$	
C3	$\frac{4}{3}$	
C3	$\frac{3}{2}$	Begin Work

Logon 56 32nd to 850' East
 Stks for 6" AC Main + Mets
 Cut sheet made

West
 Williams X
 Varonakis +
 Kullhofer Cut

26

2/7/55 Sunny & Warm

	4.72	55.79	51.07
0+60	6.3	49.5	45.8
+84 MN	4.3	51.5	49.8
1+00	4.7	51.1	45.7
+36 MN	4.6	51.2	49.5
+50	4.1	51.7	45.5
+83 MS	3.0	52.8	49.2
2+00	4.6	51.2	45.2
+03 MN	6.6	49.2	49.1
+31 MN	6.8	49.0	48.8
+33 MS	3.7	52.1	48.7
+50	5.3	50.5	45.0
+66 MS	4.9	50.9	47.6
+75	6.6	49.2	44.8
+90 MN	8.5	47.3	46.3
3+00	8.5	47.3	42.7
+21 MS	9.4	46.4	43.7
+25	11.3	44.5	40.6
+90 MN	11.2	44.6	41.8
017	43.25	12.71	43.08

BM NWBP 32nd + Logon

C3 1 Begin Work

C1 1 3204

C5 4

C1 1 3210 2.7

C6 2

C3 6 3219

C6 0

C0 1

C3 4 C02 3220

C3 5 3225

C5 5 3

C3 3

C4 4 44.0 C5 2

C1 0 3236

C4 6 42.5 C4 2

C2 1 3241

C3 9 40.0 C4 5

C2 8 3244

43.25

21755

3+50		1.8	41.5	37.2	C4	<u>3</u>		
+58 ms		2.7	40.6	39.6	C1	<u>0</u>	3243	
+95 ms		8.6	39.7	35.0	F0	<u>3</u>	3255	
4+00		9.6	33.7	30.4	C3	<u>3</u>		
	0.37	31.03	1261	30.64				
+50		4.0	27.0	23.6	C3	<u>4</u>		68
+54 ms		4.6	26.4	27.2	F0	<u>8</u>	3263	
+90 ms		9.1	21.9	22.3	F0	<u>4</u>	3270	
5+00		10.2	20.8	15.8	C5	<u>0</u>		
4+99 MN		8.8	22.2	21.1	C1	<u>1</u>	32809	93 21 70
	0.26	18.84	12.45	18.58				93 51 11.4
5+50		6.0	12.8	8.6	C4	<u>2</u>		6.75 5.00
+54 MN		7.4	11.4	13.5	F1	<u>5</u>	F 21	11.25
+79 MN		9.5	9.3	10.8	F1	<u>5</u>	3286	5.8 Tee
6+00		10.5	8.3	3.6	C4	<u>7</u>		57
+48 MN		12.4	6.4	6.5	F0	<u>1</u>	3290	11.25 5.9
+50	3.85	10.10	12.59	6.25	3.1	C3	<u>2</u>	6.4 BPH
+93 MN		4.2	5.9	6.1	F0	<u>2</u>	3302	
7+00		4.2	5.9	2.6	C3	<u>3</u>		
+20		5.4	6.0		F0	<u>4</u>	F.H. (5) F06	(CHANGED FROM 8+43)
+43 MN		4.4	5.7	6.1	F0	<u>4</u>	3314	
+20		5.7	2.4		C3	<u>3</u>	F.H. TEE	

1010

2/7/55

7+50	4.7	5.4	2.1
+53 MS	4.4	5.7	2.1
8+00	4.6	5.5	1.6

$$C_3 \begin{array}{r} 3 \\ 9 \\ \hline \end{array} \quad FO \begin{array}{r} 3 \\ 9 \\ \hline \end{array}$$

+13 MS	4.4	5.7	6.2
--------	-----	-----	-----

$$FO \begin{array}{r} 5 \\ 9 \\ \hline \end{array}$$

+A3	5.1	5.0	1.1
-----	-----	-----	-----

$$C_3 \begin{array}{r} 9 \\ 0 \\ \hline \end{array} \quad \text{end of work}$$

4+00 (B) FT	5.0	5.1	6.1
------------------------	-----	-----	-----

$$FI \begin{array}{r} 0 \\ \hline \end{array}$$

9.86	15.22	4.74	5.36
------	-------	------	------

3.73	11.99	=	11.55
------	-------	---	-------

Newton 32nd to 325 East
 SKS for 6th AC Main

cut sheet
 made

West
 Williams &
 Varonakis
 Kollhofer

13.5th
 43024
 2/8/55 SUNNY & WARM
 29

	119	62.21	61.02
0+60	4.02	56.65	9.58 52.63 49.1
1+00			4.8 51.9 48.4
+50			5.4 51.3 48.0
+75			5.5 51.2 47.8
+86 ms			5.8 50.9 51.0
2+00			5.6 51.1 47.2
+18 mn			4.8 51.9 50.8
+50			5.9 50.8 45.9
+86 mn			4.0 52.7 48.8
3+00			5.9 50.8 43.9
+07 ms			5.9 50.8 47.1
+49 ms			5.9 50.8 43.1
+50			6.3 50.9 39.4
+63 mn			4.5 52.2 41.7
+86 ms			6.9 49.8 38.1
+80			6.65 50.00 34.6
	7.80	62.29	217 54.48
			1.26 61.02 = 61.02

BM NW BY 32 nd + Natural			
C3 ⁵	Begin work		
C3 ⁵		450 57.13	5263 F11
C3 ³	MS		5.8 51.9 52.4
C3 ⁴	1+25		F02
C3 ⁴	1+35		5.2 51.9 52.8
F0 ¹	MS		F10
F0 ¹	1+38		5.9 51.2 52.2
C3 ⁹		460	
C1 ¹		3226	
C4 ⁹			
C3 ⁹		3240	
C6 ⁹			
C3 ⁷		3241	
C7 ⁷		3247	
C11 ⁰			
C10 ⁵		3250	
C11 ⁷		3251	
C15 ⁴			

Out Sheel
made

Dove St
Redwood to Spruce
Stks for 6" AD Main

	11.79	150.97	139.23
0+90		8.2	142.8 138.8
150		6.9	144.1 140.2
	12.89	163.61	0.85 150.72
0+87 ME		11.5	152.1 154.6
1+00		12.1	151.5 147.5
115 MW		7.6	156.0 156.5
+39 ME		3.6	160.0 159.3
150		4.1	159.5 155.2
	12.72		
+82 ME	176.21	0.12	163.49 164.1
+83 MW		12.4	163.8 163.2
2+00		10.8	165.4 161.3
+11 MW		9.1	167.1 166.0
+25		7.65	168.5 164.4
150		4.8	171.4 166.6
	11.19	186.67	0.73 175.48
3+00		9.5	177.2 171.3
+25		7.2	179.5 173.5
+33 ME		4.4	182.3 179.6
+35 FH 500		6.0	180.7 174.3
+35 (5) FH		3.3	183.4 179.6

West
Williams T
VARONFAKIS
KELLHOFER †

30.

2/19/55

0-42 See FB 997 Page 16

139.23 Top east rim sewer run

C4⁰ Begin Work

C3⁹

43
27
16

F2⁵

C4⁰

109.5 26
31

F0⁵ C01

C4³

F0⁶

meter moved to 1+39

C0⁶

C4¹

C1¹

C4¹

C4⁸

C5⁹

C6⁰

C6⁴ C2-2

C6⁸

C3

DOVE ST. CONT.

31.

186.67

2/9/55

3+50 5.7 181.0 175.3

~~61 mw~~ 7.2 179.5 179.0

+71 mw 6.3 180.3 180.0

+75 4.9 181.8 177.0

A+00 5.0 181.7 177.0

+50 6.2 180.5 175.0

+79 mw 7.1 179.6 177.4

+80 6.9 179.8 173.6

1.62 185.05 -

C5 ¹C0 ⁵← C4 ⁸ C0 ³C4 ⁷C5 ⁵C2 ²C6 ²

end of work

185.00 rom spike in pole

Cut sheet made

Albatross St
Robinson St to 560' North
Stks for 6" AC main

4.94 271.98

267.04

0+60

5.4 266.6 262.5

1+00

5.1 266.9 262.8

+50

4.6 267.4 263.3

2+00

4.4 267.6 263.9

+50

4.8 267.2 263.5

3+00

6.0 266.0 261.9

+50

7.9 264.1 258.6

+60

8.2 263.8 257.2

+60 mE

7.9 264.1 263.5

4.94 267.04 =

West
Williams T
Yamanfakis &
Kunhofer

32

2/9/55

see RB 875 Page 19

⑦ L+T SE Cor Albatross + Robinson

CAL Begin work

C4L

C4L

C3Z

C3Z

C4L

C6L

C6⁶

C0L

267.04

end of work

Brooks Terrace
+ Richmond St
Stks for 6" AC Man

cut sheet
made
2/25

West
Williams +
Varonakis
Kellhofer +

33

2/9/55

5.30	285.48	280.18
0+08	8.1	277.4 274.4
+30 Tee	7.6	277.9 274.8
+30 Tee	7.9	278.1 274.8
+60	6.8	278.7 275.2
+79 ² Tee	6.4	279.1 275.6
1+00	6.02	279.5 276.2
+50	5.0	280.5 277.2
+75	4.2	281.3 277.6
2+00	3.9	281.6 277.9
+50	3.3	282.2 278.4
+62	3.2	282.3 278.5
	5.29	280.19 = 280.18

+ Brooks
Turn on Top FH SE Cor Richmond
0
C3
0+00 East prop line Richmond
1
C3
Begin work
3
C3
5
C3
5
C3
3
C3
3
C3
1
C3
1
C3
8
C3
8
C3
End of work

CUT SHEET
MADE 2/25

ASH ST 31ST ST TO EDMONT ST.
STKS FOR 8" A.C. MAIN

WEST
WILLIAMS
VARON FAKIS †
KELLHOFER X

2/9/55

B.M.	5.17	240.24	235.07
0+51	5.2	235.0	231.4
1+00	5.5	234.7	231.6
+50'	5.1	235.1	231.9
2+00	4.6	235.6	231.9
+50	4.3	235.9	232.4
3+00	3.6	236.6	232.5
+30	3.35	236.8	232.6
CHECK B.M.	5.17	235.07 =	235.07

N.W.B.P. 31ST † ASH
 C3 6
 BEGIN WORK
 1
 C3 2
 1
 C3 7
 C3 5
 1
 C4 1
 C4 2
 END WORK

Co. sheet
 2/25 NW 1/4
 Tompkins St 35th to Cometary Prop
 2 mi
 Stks for 6⁰ 40 Min

	9.42	71.26	61.84
0+50	8.6	62.7	59.4
1+00	8.1	63.2	59.8
+50	7.3	64.0	60.0
2+00	6.5	64.8	60.3
+50	5.7	65.6	60.5
3+00	4.9	66.4	60.7
+50	5.2	66.1	61.1
4+00	5.0	66.3	61.6
+50	4.8	66.5	62.0
5+00	4.3	67.0	62.3
+50	4.2	67.1	62.6
6+00	4.3	67.0	63.0
240 FH 100	4.1	67.2	63.4
+50	3.8	67.5	63.6
7+00	2.9	68.5	64.8
+25	2.9	69.4	65.8
	9.41	67.85	61.84

West
 Williams &
 Varon Parks &

35.

2/23/55 SUNNY-WARM

SWOP	35 th + Tompkins St
C3	<u>3</u>
C3	<u>4</u>
C4	<u>0</u>
C4	<u>5</u>
C5	<u>1</u>
C5	<u>7</u>
C5	<u>0</u>
C4	<u>7</u>
C4	<u>5</u>
C4	<u>7</u>
C4	<u>5</u>
C4	<u>0</u>
C4	<u>8</u>
C3	<u>8</u>
C3	<u>9</u>
C3	<u>7</u>
C3	<u>6</u>

Begin Work

end of work

cut sheet
2/25 made

Boundary St Laurel to Kalnia
Stks for 6" AC Main

West
Williams +
Varonstakis +

36

2/24/55 Cloudy + Warm

	025	295.37	295.12	
0+50		7.2	288.2	284.0 C4 ²
+71 MW		6.7	288.7	288.4 C0 ³
+87 ME		7.2	288.2	286.8 C1 ⁴
1+00		7.9	287.5	283.0 C4 ⁵
+20 MW		8.2	287.2	286.7 C0 ⁵
+35 ME		8.5	286.9	285.0 C1 ⁹
+50		9.3	286.1	281.3 C4 ⁸
+61 MW		9.6	285.8	285.0 C0 ⁸
2+00		11.0	284.4	279.6 C4 ⁶
+06 ME		11.2	284.2	282.6 C1 ⁶
+22 MW		11.6	283.8	283.2 C0 ⁸
+50 227	284.84	12.80	282.5	277.8 C4 ⁵
+60 ME		2.5	282.3	280.8 C1 ³
+60 MW		1.7	283.1	281.8 C1 ⁹
3+00		3.7	281.1	276.2 C4 ²
+18 MW		3.7	281.1	279.9 C1 ¹
+50		5.7	279.1	274.0 C5 ⁵
+95 ³		8.3	276.5	272.0 C4 ⁵
	9.90	293.91	0.83	284.01
	4.17	296.20	1.88	282.03
			1.07	295.12

SE BP Boundary + Maple
Begin work

CUT SHEET
MADE 2/25

Quince St 30th
to 31st

STKS FOR 6" A.C. MAIN

1.38	304.86	303.48
3 + 74.5		1.3 303.6 299.0
4 + 00		5.8 299.1 287.5
1.64	294.04	1246 29 2.40
+25		9.8 284.2 276.0
1.01	282.65	1240 28 1.64
0.59	270.16	13.08 269.57
+50		1.5 268.7 263.0
+55 m s		2.0 268.2 283.2
+75		14.8 258.4 254.8
4.13	261.77	12.52 257.64
5 + 00		7.9 253.9 247.0
+25		9.6 252.2 247.0
+44 m N		1.1 260.7 278.0
+50		25.28 247.0
+75		7.1 254.7 249.0
6 + 00		1.1 260.7 258.0
12.95	274.48	0.24 261.53
12.73	286.86	0.35 274.13
+50		9.5 277.4 276.0

WEST T
WILLIAMS
VARONFAKIS &

37.

2/24/55

CLOUDY

Top of Quince St
C4 ⁶/₆ Begin Work
C11 ⁶/₆

C8 ²/₆

Turn on Wet Mat Box

C5 ⁷/₆

F15 ⁰/₆

C3 ⁶/₆

C6 ⁹/₆

C5 ²/₆

F17 ³/₆

C5 ⁸/₆

C5 ¹/₆

C2 ¹/₆

C1 ⁴/₆

254.7
1.9
252.8

QUINCE ST CONT.

286.86

6+62.5

5.7 281.2 279.5

C1 ⁷

9.18 294.88 1.16 285.70

6+97

6.4 288.5 286.0

C2 ⁵

end of work

273 292.15 = 292.15 IBM 62 L+T 31⁵¹ + Quince

see #8857 Page 12

2/24/55

BEECH ST. FELTON ST. To

GREGORY

STKS FOR 6" A.C. MAIN

WEST
WILLIAMS X
VARONFAKIS †

39.

2/25/55 SUNNY + WARM

7 1/4 T. S.E. COR. BEECH + FELTON (F.B. 892-7)

T.B.M.	7.97	221.90	213.93
0+50			7.8 214.1 210.8
+75			8.4 213.5 210.0
1+00			8.2 213.7 209.8
+45 M.S.			8.9 213.0 212.8
+50			8.8 213.1 209.4
+65 M.N.			8.4 213.5 213.7
2+00			9.6 212.3 209.0
+50			8.3 213.6 208.1
+80 M.S.			5.1 216.8 211.0
3+00			4.2 217.7 207.4
+29.70 X S.			3.9 218.0 206.7
+29.70 X F.			4.1 217.8 206.7
+50			4.2 217.7 206.4
4+00			6.9 215.0 205.4
+29 M.W.			6.7 215.2 210.1
+42 M.E.			11.6 210.3 209.3
+50			11.7 210.2 202.8
T.P.	2.19	211.79	12.30 209.60
+75			5.2 206.6 200.9

C 3	3
C 3	5
C 3	9
C 0	2
C 3	1
C 0	2
C 3	3
C 5	5
C 5	8
C 10	3
C 11	3
C 11	1
C 11	3
C 9	6
C 5	1
C 1	0
C 7	4
C 5	1

FOR

BEECH ST CONT.

40.

211.79

4+95 M.W

1.8 210.0 207.8

~~C₂~~²

5+00

8.5 203.3 199.0

~~C₄~~³

T.P. 3.35 202.26 12.88 198.91

193.6

+50

6.1 196.2 194.6

189.5

+79.70

11.4 190.9 193.4

~~C₁~~⁶ ~~C₂~~⁶
~~F₂~~⁵ ~~C₁~~⁴ END WORK

T.P. 11.42 212.49 1.19 201.07

CHECK

T.B.M.

2.91 209.58 = 209.60

SEE F.B. 892 PAGE 7

Plum 5t
Chuck depth of pipe

12.80	120.94	108.14
3+53		11.71 109.23
4+05		6.84 114.10
7.88	128.49	0.33 120.61
4+56		11.01 117.48
+70		9.12 119.37
+83		7.40 121.09
+98		6.24 122.25
5+00	Blank	4.40 124.09 = 124.1

WEST
WILLIAMS X
VARONFAKIS †

41.

2/28/55 SUNNY

3+00

Top 6" pipe

Warden St
Wabaska to Udell
Stks for 6" AD Main & Meter

6.68 93.43

86.75

0+67 2.9 90.5 85.4

1+00 4.2 89.2 85.6

+35 FH TEE 5.4 88.0 84.6

~~+20 FH TEE 5.1 88.3 84.8~~

~~+20 (3) FH 4.5 88.9 88.3~~

+50 6.1 87.3 83.6

+53 ME 5.6 87.8 87.2

2+00 8.1 85.3 81.7

+00 ME 7.8 85.6 85.6

5.48 88.92 999 83.44

2+32 MW 4.0 84.9 84.7

+34 ME 4.7 84.2 84.4

+50 5.5 83.4 79.7

+74 MW 5.7 83.2 83.1

3+00 7.2 81.7 77.8

+08 7.4 81.5 77.4

+10 ME 7.7 81.2 82.0

+32 MW 8.0 80.9 81.4

6.02 92.63 231 86.61

6.88 86.75 = 86.75

West
Williams T
Varonokis T

42

3/17/05 CLEAR & WINDY
see PB 867 Page 26

On Man E edge of Wabaska Dr

C5 ¹ Begin work

C3 ⁶

C3 ⁵ ^{c34} Moved to 1+35 see pg 46

C0 ⁶

C3 ⁷

C0 ⁶

C3 ⁶

C0 ⁰

C0 ²

F0 ²

C3 ⁷

C0 ¹

C3 ⁹

C4 ¹ End of work

F0 ⁸

F0 ⁵

61st Detroit to Benson

10.68	298.47		282.79
276	288.82	12.91	286.06
17.41	299.89	1.34	287.48
12.63	312.16	0.36	299.53
12.48	324.32	0.32	311.84
1.09	321.54	3.87	320.45
0.84	309.44	12.94	308.60
0.87	297.64	12.67	296.77
0.81	285.64	12.76	284.98
12.72	297.13	1.28	284.91
		9.30	287.83 = 287.79
12.61	333.06		320.45
		10.63	322.43
4.35	335.96	1.45	331.61
City Eng 1+00		2.90	333.06
m W		14.2	321.8
13+29		8.34	327.60
City Eng Stake 1+00	3.14		
m E		9.94	321.8
13+29		10.27	320.97 = 320.45

B.M. P.L.T. Detroit + Benson

□ checked on first step of 61st to 61st 51

0+60 - City Eng Binney

5.8
5.6
11.4

333.06
2.80
327.26
5.6
322.66

cut on Binney

D. T.B.M.

Top stem FH CV 13+0

3.931
0 10.5 on stake
322.6

4.2

321.6
6.3
321.9

Bottom of Hole even with main

Bottom of Hole on copper

cut sheet made

Wawona: Copistrano to Clove
5TK5 for 6" AC main

West
Williams X
Varonakis +

44

3/21/55 CLEAR + WARM
See FB 893 P 35

Top earthy rim sewer MH 012A

12.90	97.28			84.38				
0+45		12.4	84.9	80.6	C4 ³			
+70		12.0	85.3	80.7	C4 ⁶			
+75		6.3	91.0	80.8	C10 ²			
+88 FH Tee		3.5	93.8	82.9	C10 ⁹		74	89.9
+88 (6) FH		+0.1	92.9	87.8	C9 ⁶		5.0	92.3
+85 mE		9.1	88.2	86.4	C1 ⁸	80.1 80.2		
1+00		2.1	95.2	84.8	C10 ⁴	80.5		
	6.60	103.81	0.07	97.21			33	91.0
								92.0 9.5 C92
+50		4.0	99.8	89.8	C10 ⁰			
+67 mE		10.2	93.6	93.7	F0 ¹	103 101		
2+00		3.3	100.5	89.8	C10 ⁷	102		
+18 mE		8.6	95.2	94.0	C1 ²	101 100		
+25		2.0	101.8	89.8	C12 ⁰			
+50		3.9	99.9	89.8	C10 ¹			
3+00		6.3	97.5	89.0	C8 ⁵			
+00 mE		12.3	91.5	91.8	F0 ³	105 100		
+50		7.7	96.1	87.6	C8 ⁵	105		
4+00		11.4	92.4	86.2	C6 ²			
							5.1	98.7
								99.8 3.7 C102
							9.7	99.1
								100.4 3.1 C106
							2.8	101.0
								101.8 1.7 C120
							5.2	98.6
								99.6 3.9 C98
							7.4	96.1
								97.2 6.3 C92
							8.7	95.1
								95.7 7.8 C81
							12.6	91.2
								90.0 11.5 C58

Begin Work
Bottom Bank

12.103.5

92.0
9.5 C92

94.6
8.9 C98

99.8
3.7 C102

100.4
3.1 C106

101.8
1.7 C120

99.6
3.9 C98

97.2
6.3 C92

95.7
7.8 C81

90.0
11.5 C58

103.81

3/21/55

2.07 93.28 1260 91.21

4+00 ME ✓

4.3 89.0 89.6

F0 $\frac{6}{1}$ ~~02 03~~

CHECK

+50

1.0 92.3 85.2

C7 $\frac{1}{1}$

1.9 91.4

92.3

0.7

11.2

+76 ME ✓

8.5 84.8 88.4

F3 $\frac{6}{8}$ ~~02 03~~

35.42

5700

5.5 87.8 84.0

C3 $\frac{8}{1}$

6.1 87.2

+50

6.3 87.0 83.5

C3 $\frac{5}{1}$

6+00

6.3 82.0 83.0

C4 $\frac{0}{1}$

+41

6.8 86.5 82.4

C4 $\frac{1}{1}$

end of work

A+60

6.54 86.74

7.83 100.76 0.35 92.93

CHECK

T.B.M.

3.85 96.91

= 96.91

Top of 110 sewer 1711 2+20

TBM

6.58 103.29

96.91

NOTE Replaced stks 0+70 - 4+50

4/15/55

WABASKA DRIVE
WORDEN To VOLTAIRE
Construction STRS & GRDS.
FOR 6" A.C.

April 6, 1955
BEATTY
WILLIAMS
VARONFAKIS

46

4/7/55

(pg. 42)

B.M.								
	6.16	92.91		86.75				Conc. Mon. E. Edge Wabaska Dr. (N. side of Worden St.)
0+433	F.H. TEE		5.1	87.8	82.6	C32		} Relocated F.H. from wly edge of driveway to 4' East of Ely edge of driveway
	⑤ F.H.		4.2	88.7	87.9	C08		
0+482	6" GV		5.1	87.8	82.5	C33		
1+090 ⁶	x RT. 45° bend Δ = 41° 52' RT		5.2	87.7	83.4 83.9	C43		
1+50			6.1	86.8	82.0 82.0	C48		
2+00			7.5	85.4	81.0 82.0	C44		
2+50			8.5	84.4	79.8 80.8	C46		
3+00			9.4	83.5	78.6 79.6	C49		
① 3+50	2 Nail 2.10	82.41	10.60	82.31	77.5			
			1.7	82.7	78.5	C52		
4+00			2.9	81.5	76.2 77.4	C51		
4+50			4.5	79.9	75.2 76.2	C47		
4+86 ⁵³	x RT. Δ = 3° 53' 10" RT		5.6	78.8	74.6 75.6	C42		
5+00			5.5	78.9	74.1 75.1	C48		
5+50	③ RT		6.7	77.7	73.1 74.1	C46		6.8 C
6+00	③ LT		7.9	76.5	72.1 73.1	C44		7.8 C
6+50	③ LT		8.9	75.5	71.1 72.1	C44		8.1 C
7+00	③ LT ④ LT		9.3	75.1	70.1 71.1	C50 C44		8.4 C
① 7+50	@ LT	3.18	77.32	10.27	74.14	69.1 70.1	C54	10.0 C

WABASKA DRIVE
(Cont'd)

4/6/55

47

	77.32			68.5		
7+75 @ LT.		39	73.4	69.5	C 49	55
8+00 @ LT.		4.5	72.8	68.1	C 47	42
8+50 @ LT		5.3	72.0	67.3	C 47	52
8+75 @ LT		6.2	71.1	67.1	C 40	56
9+00 ③ LT X RT 45° bend Δ 25°00' RT.		6.1	71.2	67.3	C 39	615
9+132 Tapping 9V		5.7	71.6	67.6	C 40	6.09
Set Tan.	9.45	80.79	5.98	71.30		
④)	10.21	90.13	0.87	79.92		
CL B.M.			3.37	86.76 = 86.75		

Hi pt BC Curb near po. pole

Cont. Mon.

WAT. METS

2+65 NEly	Ni 92.91	8.4	84.5	83.6
3+15 NEly		9.8	83.1	82.6
3+45 SWly	Ni 82.01	4.5	88.9	81.9
3+64 NEly	"	2.1	82.3	81.1

9

C 0

5

C 0

0

C 7

2

C 1

4/7/55

C 49

55

C 47

42

C 47

52

C 40

56

C 39

615

C 40

6.09

(Mets 16⁵ RT
58² LT
& pipe)

3921 Wabaska DR
3927 " "
3926 " "
3939 " "

Alley Blks 226, 227, 228, 229
Mission BCH
North of San Rafael Pl
South of Venice Court

West
Williams +
Alexander +

48

4/18/55

	1.39	7.38	5.99
0+10			8.3 -0.9 -5.0
+20 MN			8.1 -0.7 -1.2
+26 MS			8.4 -1.0 -1.4
+32 MS			8.3 -0.9 -1.5
+50			8.3 -0.9 -5.9
+75			9.1 -1.7 -5.9
+93 MN			8.3 -0.9 -1.2
1+00			8.7 -1.3 -5.0
+25 MS			8.6 -1.2 -1.1
+29 MN			8.2 -0.9 -1.0
+50			8.0 -0.6 -4.9
+57 MS			8.1 -0.7 -1.0
+81 $\frac{1}{2}$ board			8.3 -0.9 -4.6
7+00 $\frac{1}{2}$ board			7.9 -0.4 -4.4
+19 $\frac{1}{2}$ board			6.7 0.7 -4.2
+50			7.8 -0.1 -4.2
+66 MN			6.9 0.5 +0.2
+80 MS			7.0 0.4 +0.3

7/11 Nail in power Pole 5' Lt 4+00
1
C4
5
C0
4
C0
6
C0
0
C5
2
C4
3
C0
7
C3
1
F0
2
C0
3
C4
3
C0
7
C3
0
C4
9
C4
8
C3
3
C0
1
C0
1

Begin work

have to be replaced

738

3+00 MN	6.6	0.8+0.5	C0 $\frac{3}{5}$	
3+00	6.6	0.8-3.7	C4 $\frac{5}{0}$	
+34 MS	5.9	1.5 1.5	C0 $\frac{0}{1}$	
+36 MN	5.7	1.7 1.8	F0 $\frac{1}{0}$	have to replace
+50	4.6	2.8 -1.2	C4 $\frac{0}{1}$	"
+65 MS	3.4	4.0 3.9	C0 $\frac{1}{0}$	have to replace
+69 MN	3.1	4.3 4.3	C0 $\frac{0}{9}$	" " "
4+00	2.1	5.3 1.4	C3 $\frac{5}{8}$	
+30 MS	1.3	6.1 5.6	C0 $\frac{7}{4}$	
+29 MN	1.2	6.2 5.4	C0 $\frac{4}{3}$	
+31 MN	1.3	6.1 5.4	C4 $\frac{3}{4}$	end of work
4+50 (4)	1.3	6.1 1.7	C0 $\frac{3}{3}$	replace
+55	1.6	5.8 5.5		
	1.39	5.99		

Alley Bks 230, 231, 232, 233
 Mission Bck
 Betw Venice Ct + Verona Ct
 Stks for 6" AC Man

	4.38	4.10	-0.28
0+05			5.2 - 1.1 - 5.0
+05 MN			4.9 - 0.8 - 0.9
+37 MN			5.1 - 1.0 - 1.2
+42 MS			5.3 - 1.2 - 1.3
+50 (A)			5.2 - 1.1 - 5.7
+75			5.1 - 1.0 - 5.7
+91 MN			4.8 - 0.7 - 1.0
+92 MS			5.3 - 1.2 - 1.2
1+00			5.0 - 0.9 - 5.0
+27 MS			5.3 - 1.2 - 1.1
+38 MN			4.7 - 0.6 - 0.9
+41 MN			5.1 - 1.0 - 0.9
+50			5.0 - 0.9 - 5.0
+67 MS			5.0 - 0.9 - 1.0
+75			5.5 - 1.9 - 4.7
2+00			4.6 - 0.5 - 4.3
+75			4.4 - 0.3 - 4.3
+50			4.2 - 0.1 - 4.5

West
 Williams T
 Alexandria

50

4/19/55

TOT NW Cor. Alley Bk 231

5.99
 2.28
 7.69
 2.47
 5.22

C3 ⁹	begin of work
C0 ¹	
C0 ²	
C0 ¹	
C4 ⁶	
C4 ⁷	
C0 ³	replace
C0 ⁰	replace
C4 ¹	
F0 ¹	replace
C0 ³	
F0 ¹	replace
C4 ¹	
C0 ¹	replace
C3 ³	
C3 ⁸	
C4 ⁰	
C4 ⁴	

1.10

2+54 MS	4.1	0.0	-0.5
+76 MN	4.2	-0.1	-0.4
+80 MN	4.2	-0.1	-0.4
+93 MS	4.0	0.1	-0.4
	8.99	9.06	9.03 0.07
3+00	9.0	0.1	-4.3
+07 MN	8.9	0.2	-0.3
+07 MS	8.6	0.5	-0.3
+50	8.0	1.1	-3.2
+54 2 mts south	7.6	1.5	0.8
+80 ms	6.3	2.8	2.6
+90 msl	5.8	3.3	2.6
4+00	4.2	4.9	0.2
+26 ms	4.1	5.0	4.6
+44 ms	3.7	5.4	4.8
+46 msl	3.7	5.4	4.8
+50	3.7	5.4	1.0
+72 (C)	3.8	5.3	1.3
+72 2 mts S	3.8	5.9	5.2
+76 (C) met	3.6	5.5	5.2
	3.84	5.22	5.23

4/19/55

C0 5 replace
 C0 3
 C0 3 REPLACE
 C0 5 REPLACE

C4 4

C0 5

C0 8

C4 3

C0 7

C0 2

C0 7

C4 7

C0 4

C0 6 out no meter

C0 6 Replace

C0 4 "

C4 9

C0 1

C0 3

out Nail in Power Pole SW Cor strandway.

Alley Blks 235 - 236
Mission Blk
N of Verona Court
S of Whiting Court

West
Williams X
Alexander ♀

52

4/17/55

5.22	4.94	-0.28		
0+31		5.5	-0.6	-4.5
+50		5.3	-0.4	-4.5
+90 mn		5.2	-0.3	-0.5
1+00		5.4	-0.5	-4.5
+09 mn		5.1	-0.2	-0.5
+20 ms		5.2	-0.3	-0.5
+38 mn		5.0	-0.1	-0.3
+50 (A)		5.0	-0.1	-4.2
+56 mn		4.8	0.1	-0.2
+70 ms		4.9	0.0	-0.3
+77 ms		5.2	-0.3	-0.3
2+00		4.8	0.1	-3.7
+12 mn		4.2	0.7	0.7
+17 ms		4.3	0.6	0.7
+42 ms		3.0	1.9	1.7
+50		2.2	2.7	-1.8
+51 mn		2.4	2.5	2.4
3+00	4.48	9.01	0.41	4.53 0.6

TAM NW cb alley blk 230 + mission Blvd
C3 $\frac{9}{1}$ Begin work
C4 $\frac{1}{2}$
C0 $\frac{2}{0}$
C4 $\frac{0}{3}$
C0 $\frac{2}{2}$
C0 $\frac{2}{2}$
C4 $\frac{1}{3}$
C0 $\frac{3}{3}$
C0 $\frac{0}{8}$
C3 $\frac{8}{0}$
C0 $\frac{1}{2}$
F0 $\frac{2}{5}$
C0 $\frac{1}{9}$
C3 $\frac{9}{1}$

Alley BIRs 235-236 coast

901

3+16 ms

4.1 4.9 4.7

+16 mn

4.1 4.9 4.6

+30

4.1 4.9 0.4

+44 ^{2 mats} south

4.4 4.6 5.0

+44 ^{2 mats} north

3.9 5.1 5.0

3.79 5.22 = 5.23

53

4/19/55

C0 ²

C0 ³

C4 ⁵

F0 ⁴

C0 ¹

end of work

TM rail in power pole

Delaware St Madison St
to South term
stks for 6" AC Main

West
Williams x
Alexander +

54

4/20/05

	380	347.29	343.44	SW BP	Madison + Delaware
0+45			27 344.5	C3	5 Begin Work
+62.5			3.3 343.9	C4	5
+82 FH. Tee			3.8 343.4	C4	0
1+12.5			4.4 342.8	C3	4
+50			5.1 342.1	C3	5
2+00			6.1 341.1	C3	6
+50			7.1 340.1	C3	7
+75			7.6 339.6	C3	8
3+00			8.2 339.0	C4	0
+01 ME			8.2 339.0	F0	2
+38			11.7 335.5	C3	7 end of work
+39 ME			11.4 335.8	F0	2
	380	343.44	= 343.44		

Olive St

Kettner to California

STKS FOR 6" A.C. MAIN

	2.57	60.06		57.49
0+72			7.5	52.6 49.0
+50			7.4	52.7 48.1
	1.67	53.11	8.62	51.44
1+00			4.0	49.1 45.0
+50			10.0	43.1 39.2
+75			12.4	40.7 36.8
+81 W.M.N.			11.7	41.4 40.5
T.P.	4.20	44.30	13.01	40.10
2+00			5.1	38.9 34.9
+20 m.N.			5.9	38.4 37.5
+50			7.5	34.8 31.2
+65 (10)			9.6	34.7 30.0
	12.94	57.05	0.19	44.11
	3.07	60.12	0.00	57.05
			2.62	57.50 = 57.49

West
Williams
Alexander

55

4/20/55

	PM	SE BP	Kettner + Palm St
C3	$\frac{6}{6}$		Begin Work
C4	$\frac{6}{6}$		
C4	$\frac{1}{1}$		
C3	$\frac{9}{9}$		
C3	$\frac{9}{9}$		
C0	$\frac{9}{9}$		
C4	$\frac{0}{0}$		
C0	$\frac{9}{9}$		
C5	$\frac{6}{6}$		
C4	$\frac{7}{7}$		end of work

Palm St
Kettner to Pacific Hwy

Stks for 6" Main AC part 01

1.16	58.65	57.49	
0+28		1.3 57.9	53.5
+50		1.7 57.0	53.2
+75		8.7 56.0	52.5
+80 FH Tee		2.9 55.8	51.9
+80 (5') FH		2.7 56.0	55.9
1+00		5.3 53.9	49.9
0+98 mN		4.2 54.5	54.5
+ 0.67	46.70	12.62	46.03
1+50		0.4 45.3	41.8
+65 mN		2.8 43.9	43.5
+79 mS		5.2 41.5	40.3
2+00		9.4 37.3	33.6
+25		13.0 33.7	29.6
1+87 mN		6.2 40.5	40.0
1.03	34.70	13.03	33.67
2+37 mN		1.4 33.3	32.0
+50		4.1 30.6	26.1
+62.5		5.4 29.3	24.5
+75		6.1 28.6	23.3
3+00		6.8 27.9	22.8

West
Williams X
Alexander +

56.

4/20/55

BM SE BP	Kettner + Palm St
C3 ⁹	
C3 ⁸	Begin Work
C3 ⁵	
C3 ⁹	
C0 ¹	
C3 ⁵	
C0 ⁰	
C3 ⁵	
C0 ⁴	
C1 ²	
C3 ¹	
C4 ¹	
C0 ⁵	
C1 ³	
C4 ⁵	
C4 ⁸	
C5 ³	Begin Conc encase
C5 ¹	

PALM ST. CONT.

57.

34.70

4/20/55

3+12.5 7.3 27.4 22.6

C4 $\frac{8}{4}$

end cone encasement

+50 9.4 25.3 21.9

C3 $\frac{4}{3}$

0.78 22.75 12.73 21.97

4+00 1.5 21.3 17.7

C3 $\frac{6}{8}$

+50 6.3 16.5 12.7

C3 $\frac{8}{3}$

5+00 7.9 14.9 11.6

C3 $\frac{4}{3}$

+25 8.3 14.5 11.1

C3 $\frac{4}{4}$

+35 B.V. 8.5 14.3 10.7

C3 $\frac{4}{7}$

+40 FH Tee 8.6 14.2 10.5

C3 $\frac{7}{0}$

+40 (3) FH 8.1 14.7

C 0 0

+50 9.0 13.8 10.1

C3 $\frac{7}{1}$

8.97 13.78

13.80 see FB 825 p 47 1 nail 5+50

Grapo St
California to Pacific Hwy

West
Williams x
Alexander †

58

1/2/55

P 35

Top West rim sewer MH sec FB 875

	0.71	19.65	18.94	
0+88	⑤		1.05	18.60 14.7
+88	⑤		1.2	18.5 14.7
1+00			1.8	17.9 13.3
+50			5.5	14.2 10.0
2+00			9.1	10.4 6.7
+50			12.3	7.4 3.4
	3.78	11.93	11.50	8.15 1.4
3+00			5.6	6.3 2.1
+30			5.85	6.08 1.4
	11.10	20.91	2.12	9.81
			1.96	18.95 = 18.94
	3.75	11.95	8.20	
			11.5	0.15
3+37 ⁵			5.7	4.3 0.5
3+30			5.8	6.2
			3.74	8.21

C3 ⁹

C3 ⁸

C4 ⁶

C4 ²

C3 ⁹

C4 ⁰

C4 ² C4²

C4 ⁷ C5 ³

See FB 822 Page 75

Bottom of traffic signal Pacific Hwy + Grapo

Bottom of Tee

C5 ⁸

End of Work

Plum + Dickens St

Stubs to connect main
Group #17

2.78 136.57 134.09

Plum St

4+84

134 123.2 120.6

5+00

12.5 124.1 121.1

+25

12.1 124.5 122.1

+50

11.3 125.3 122.3

+85 6x6 cross

10.0 126.6 122.5

Dickens St

0+00

10.2 126.4 122.5

0+50

9.6 127.0 123.2

+75

8.3 128.3 124.1

+95

of work
end

6.2 130.4 126.6

2.78 134.09 =

West
Williams +
Varonakis +

320
305
15

59

1/29/55

SW BP Plum + Carlton

C 2 ⁶

Begin work

C 3 ⁰

C 2 ⁴

C 3 ⁰

C 4 ¹

C 3 ⁸ C 3 ²

C 4 ²

C 3 ²

134.09

Taft St
 Colina to Forward
 Stgs for West Mats

11.25	131.25	120.00
9.96	141.03	018 131.07
11.11	150.90	124 139.79
1+21 W	6.3	144.6 145.3
1+65 E	4.2	146.7 145.1
2+01 W	8.4	142.5 143.2
2+76 ⁵ E	7.8	143.1 142.4
2+31 W	9.7	141.2 141.7
+	3.07	141.05 1292 137.98
2+76 ⁵ W	3.8	137.3 139.1
2+94 ⁵ E	1.3	139.8 138.8
3+36 E	3.9	137.2 137.0
3+50 W	7.0	134.1 136.3
3+82 W	7.0	134.1 135.6
4+00 E	4.2	136.9 135.2
4+21 W	7.1	134.0 135.4
4+35 E	4.4	136.7 136.0
4+86 W	6.9	134.2 135.1
4+87 E	3.5	137.6 135.7
5+13 E	4.0	137.1 135.6
5+34 W	6.3	134.8 134.8

West
 Williams X
 Varsofakis
 Kellhofer &

Back of Meters 23.5 60
 RT+21 from Q of St

576155

BM NW BP Midway + Bellevue

Fo ¹	5404 Taft
Cl ⁶	5415 "
Fo ⁷	5412 "
Co ⁷	5423 "
Fo ⁵	5416 "
FI ⁸	5424 "
Cl ⁰	5427 "
Co ²	5433 "
F2 ²	5432 "
FI ⁵	5436 "
Cl ⁷	5441 "
FI ⁴	5442 "
Co ⁷	5445 "
Fo ⁹	5448 "
Cl ⁹	5449 "
Cl ⁵	5455 "
Co ⁰	5456 "

Taft Cont

141.05

5+15 E	3.6	137.5	135.4
9.65	142.72	7.98	133.07
6+19 E	5.0	137.7	135.1
6+47 E	7.4	135.3	134.7
6+48 E	8.0	134.7	134.7
6+71 W	10.4	132.3	132.2
7+36 E	6.7	136.0	132.4
7+46 W	11.5	131.2	131.2
8+06 W	10.3	132.4	133.0
8+25 E	6.5	136.3	134.3
8+49 W	9.6	133.1	134.0
8+62 E	5.8	136.9	135.2
8+75 W	8.9	133.8	134.8
9+05 E	5.1	137.6	136.6
9+30 W	6.8	135.9	136.8
9+69 W	9.41	145.99	5.64 137.09 138.4
9+62 E	6.7	138.8	138.9
10+28 W	5.1	140.4	140.9
10+52 E	1.2	144.3	142.7
10+65 W	9.5	142.0	142.5
10+92 W	2.8	142.7	143.9

C₂¹

5461 Taft

811 Midway

C₂⁶

C₀⁶

C₀⁰

C₀¹

C₃⁶

C₀⁰

F₀⁶

C₂⁰

F₀⁹

C₁⁷

F₁⁰

C₁⁰

F₀⁹

F₀³

F₀¹

F₀⁵

C₁⁶

F₀⁵

F₁²

19' from & Name moved to 27' Rt of Q

midway 28' Rt of Q

776 Midway

806 Midway
midway

776 Midway

5511 Taft

5414 Taft

5531 "

5118 Taft

5521 "

5520 "

5526 "

5531 "

5532 "

5539

5536

5540

TAFT CONT.

145.49

7.40 152.77 0.12 145.37

11+57E 5.4 14 7.4 146.6

12+24E 3.5 14 9.3 147.6

+45W 5.9 14 6.9 147.4

0.78 143.06 10.49 142.28

0.23 131.34 11.95 131.11

11.29 120.05 = 120.00

Co ⁸

Cl ⁷

FO ⁵

5551

5559

5558

Belle Vue
 Colima to Midway
 Stks for Water Meters 2640
 Back of meters at 23° from 0 4

315	123.15	120.00
7.68	124.83	6.00 117.15
0+49 E	2.3	122.5 118.9
1+15 E	4.5	120.3 119.3
+50 W	7.9	116.9 118.3
2+13 E	5.4	119.4 119.7
+31 W	7.9	114.9 118.7
+47 E	4.8	120.0 119.8
^{5.55} +75 W	122.75	7.63 117.20 119.0
+92 E +85 E	2.6	120.2 119.9
3+00 W	5.5	117.3 119.0
+53 E	2.6	120.2 120.2
4+00 W	6.2	116.6 119.3
+50 E	4.5	118.3 120.5
+67 W	5.6	117.2 119.6
5+10 E	2.5	120.3 120.8
+19 W	4.4	118.4 120.0
+88 W	2.6	120.2 120.1
	273	120.02 = 120.00

West
 Williams X
 Kellhater 4

63

5/9/55

BM NWBP Midway + Belle Vue

0+00 NLY Prop Line of Colima on Belle Vue

C3 ⁶	5407 Belle Vue
C1 ⁰	5421
F1 ⁴	5420
F0 ³	5429
F1 ⁸	5426
C0 ²	5431
F1 ⁸	5430
C0 ³ ✓	5441
F1 ⁷	5436
C0 ⁰	5449
F2 ⁷	5444
F2 ²	5457
F2 ⁴	5449
F0 ⁵	753 Midway
F1 ⁶	5454
C0 ¹	5470

West Palm

Kettner to Pac Hwy

0.47 57.92 57.49

0.48 45.08 12.82 45.10

3.23 36.16 12.66 37.93

2+45.2 10.7 25.5

2+55 12.6 23.6

271 30.67 8.20 27.96

2+77² 8.4 22.3

3+11⁶ 8.7 22.0

3+30 8.7 22.0

+44 8.5 22.22

3+50 8.6 22.1

+75 10.25 20.42

271 27.96

West
Williams T
Varontakis +
Kellhofer

6A

5/23/55 Cloudy

BM SE BP Kettner + Palm

Top pipe end AC pipe begin Ci

Top Ci

Top Ci Begin Auging

Top Ci end "

" "

" AC

" "

Mooke St

Arista to Ampudia

Sigs for meters & Check depth of Main
Banks of Meters Set 17.5 N + 22.53 of 89

4.08 37.63 33.55

4.05 33.44 8.24 29.39

0-03 10.71 22.73

0+16 10.52 22.92

0+16 WM Sly 5.0 28.4 25.7

+76 WM Sly 5.4 28.0 25.7

1+01 9.75 23.69

+14 WM Sly 5.3 28.1 26.1

+24 WM Nly 5.7 27.7 26.6

1+77 WM Nly 5.4 28.0 27.4

+74 WM Sly 5.0 28.4 26.7

2+27 WM Nly 5.1 28.3 28.0

+45 WM Sly 5.2 28.2 27.4

9.50 38.90 1.04 29.30

5.34 33.56 = 33.55

West
Williams X
Varonakis +
0+00 Fly Line Arista
113171

65

6-8/55

BM Wly 7' HT Ampudia + Jefferson

Top 6" AC Main

" " " "

C 3²

C 2³

Top 6" AC Main

C 2⁰

C 1³

C 0⁶

C 1³

C 0³

C 0⁸

Jefferson St
Harney to Ampudia
5ths for Wat Mets

West
Varonakis
Kellhofer
(marco)

66

6-13-55

1.64 27.19 25.55

1+02 MS 2.0 25.2 25.3

1+75 MS 2.4 24.6 24.6

2+50 NN 5.3 21.9 21.8

7+77 MS 9.1 18.1 18.5

3+00 NW 00.1
Condu 11.0 16.2 16.4

5.30 22.03 10.46 16.73

4+81 MS 14.0 8.0 8.2

6+33 MS 4.2 17.8 17.3

11.62 33.09 0.56 21.47

7+35 MS 11.0 22.1 21.6

7+72 MS 9.7 23.4 23.3

8+13 MS 7.7 25.4 25.1

8+65 MS 5.3 27.8 27.4

9+52 MS 2.0 31.1 31.2

0.36 21.83 11.62 21.47

0.49 17.21 5.11 16.72

Condu St Jefferson
17.21

D+85 MW 8.1 9.1 9.6

D+86 MW 8.6 8.6 8.7

BM NEEDLET Harney + Jefferson

FO¹ 0+00 Ely Prop Line Harney St

CO²

CO¹

FO³

FO²

+ Jefferson St

Turn on NW from Condu St

FO²

CO²

FO⁵

CO¹

CO³

CO⁴

FO¹

to Moore

FO⁵

FO¹

1721

1+01	MW	95	7.7	7.1	CO ⁶
1+27	ME	115	15.7	6.2	FO ⁵
753	MW	122	5.0	5.1	FO ⁴
2+11	ME	139	3.4	3.1	CO ³
11.25	27.98	0.98	14.73		
	2.44	25.59	=	75.55	

70th St
El Cajon to Colony Rd

5th Sta For Water Meters 115104
Meters set 22nd from 0 115092

191 466.17 464.26

0+10

0+19 WMW

1.2 465.0 464.1

0+96 WM'E

2.7 463.5 463.7

2+72 WME

5.6 460.6 460.2

0+00 South Prop Line Amherst

0+69 ME

1.5 461.7 461.6

1+08 MW

4.6 461.6 461.8

1+23 ME

3.9 462.3 462.8

1+36 MW

4.1 462.1 462.4

1+77 MW

2.7 463.5 463.2

1+80 ME

2.4 463.8 463.9

2+39 MW

1.1 465.1 464.3

6.39 471.39 1.12 465.05

2+41 MW E

4.9 466.5 465.2

3+01 WMW

4.8 466.6 465.8

3+33 WMW

4.6 466.8 466.4

3+51 WME

1.1 470.3 467.4

4+70 WME

3.2 468.2 467.2

5+22 WME

4.8 466.6 466.1

5+18 WMW

4.9 466.5 464.6

3.37 468.70

4.04 467.33 = 464.26

1.40 464.30

Went
Martha
Varonakis
Kellhofer

6-15-55

SWBP El Cajon Blvd #70th

QEH 21.7 ft 0+00 South prop line El Cajon

CO⁹

FO²

CO⁴

CO¹

FO²

FO⁵

FO³

CO³

FO¹

CO⁸

CO¹³

CO⁸

CO⁴

CO⁹

CO²

CO⁵

CO³

68

5+16 QEH 21' LT

Polk 3E
 ALTADENA to 52nd
 meters set 172 from Q
 strk for meters 115601

1.60	317.17		315.57	
8.22	324.77	0.62	316.55	
4+30 WMS		6.3	318.5	318.3
11.19	331.27	4.69	320.08	
1+60 WMN		4.1	327.2	325.6
1+32 WMS		4.6	326.7	325.3
1+14 WMN		5.2	326.1	324.9
1+03 WMS		6.4	324.9	324.2
0+41 WMS		11.2	320.1	319.4
4.43	324.51	11.19	320.08	
1.00	317.88	7.63	316.88	
		2.33	315.55	= 315.57

West
 martini X
 Varonakis #
 Kellhofee

69

6/15/55

NW BR 52nd + University

0+00 Fly Prop Line Altadena

C 0²

Turn on west rim sewer line & Polk to 51st

C 1⁶

C 1⁴

C 1³

C 0⁷

C 0⁷

57st 58 Polk to Ott. 1/16/72
5113 from Meters

Meters Set 25' from Q

11569 L

6.72 326.80

320.09

0+24 WM E

5.8 321.0 319.8

cl ²

0+46 WM W

0.70 326.1 321.3

cl ³

1+44 WM E

3.6 323.2 320.4

cl ³

4081

1+50 WM W

3.6 323.2 321.8

cl ⁴

1+89 WM E

3.1 323.7 319.2

cl ⁵

4077

2+10 WM Sly

7.4 319.4 320.2

FO ⁸

4068

2+75 WM Sly

8.8 316.0 316.0

CO ²

4058

2.04 318.21 10.63 316.17

3+31 WM Sly

7.9 310.3 312.2

FI ⁹

4048

4+00 WM Sly

8.3 309.9 308.8

cl ¹

Ott. 1/16 Pl
318.21

0+00 Elev. Prop.

Line

0+63 WM Sly

10.40 307.8 306.6

cl ²

4048 52nd 1/2

6.80 311.41

Turn on Top SW SW cor. Ott. 1/16/72

West
Martell
Varonfukrs
Kellhofer

70

6-17-55
0+00 sly prop line Polk

JRM West Rim Survey MW See page 69

52nd St Polk to University
Stks for wat mts

Meters set 22⁵ from 2 115611

570 317.11 311.41

4+00 WNW Wly 130 304.1 303.6

1+97 WNW Wly 4.7 312.9 311.2

1+41 WNW Wly 3.1 313.7 313.3

1+41 WNW Wly 4.2 312.9 312.5

0+74 WNW Wly 1.3 315.8 315.2

0+38 WNW Wly 0.2 316.9 316.1

7.55 324.36 0.31 316.81

5.52 318.84 =

West
Martell
Varenjakis
Hillhofen

71

6-17-65
0+00 314 Prop Line Polk

From page 70

CO⁵ 4042

cl² 4060

CO⁴ 4068

CO⁴ city park

CO⁶ 4076

CO⁸

318.82 @ Mon Polk + 52nd St South

2A Dorna
 Montezuma to North
 578' for water meter
 ± - 2721-2722 L

West
 Martell #
 Varon Fakist
 Kellhoter

72

6/22/55

Top pipe 25' at 1+00 from Montezuma

6.09	451.71		445.62	
TP	12.60	453.22	11.09	440.62
TP	2.50	450.99	4.73	448.49
1+34 ME			1.6	449.4 449.6
1+47 ME			2.3	448.7 449.0
1+95 MW			6.0	445.0 445.7
2+92 ME			8.5	442.5 444.3
2+97 ME			8.5	442.5 444.3
3+69 ME			4.9	446.1 446.3
4+79 MW			3.5	447.5 447.3
5+13 ME			1.4	449.6 448.5
5+42 MW			3.0	448.0 447.8
5+60 ME			0.9	450.1 448.8
5+98 MW			2.7	448.3 448.0
6+18 E			0.8	450.2 449.0
TP	1.92	451.69	1.22	449.77
6+94 ME			1.5	450.2 449.2
7+46			2.0	449.7 448.6
7+83 MW			5.3	446.4 446.8
8+27 ME			4.0	447.7 446.5
8+60 MW			7.0	444.7 444.1

FD²

FO³

FO²

FI⁸

FI⁸

FO²

CO²

CI^L

CO²

CI³

CO³

CI²

CI²

CI^L

FO⁴

CI²

CO⁶

451.69

TP	4.62	449.96	6.35	445.34	
9+44 ME			5.4	444.6	442.0 C2 ⁶
9+03 MW			7.2	442.8	442.5 C0 ³
10+29 ME			8.7	441.3	440.8 C0 ⁵
10+50 MW			9.7	440.3	439.8 C0 ⁵
10+72 ME			7.9	442.1	441.2 C0 ⁹
11+23 ME			6.3	443.7	443.2 C0 ⁵
11+57 ME			4.8	445.2	444.3 C0 ⁹
11+77 MW			5.0	445.0	443.8 C1 ²
11+98 E			3.17	446.79	445.1 C1 ⁷
12+22 ME			3.2	446.8	445.5 C1 ³
12+15 MW			4.0	446.0	444.5 C1 ⁵
12+65 MW			4.5	445.5	445.3 C0 ²
13+57 MW			3.5	446.5	445.8 C0 ⁷
13+85 ME			2.6	447.4	447.6 F0 ²
TP	5.36	453.14	2.18	447.78	

FLANGE OF FH. 24.7 Lt. E.

7.49 445.65 = 455.62 Top Pipe 25' Lt 1400 From Montgomery

5.13 448.01 = 447.95 SWBP Montgomery & CATOCTIN

Alley BK 37

N of Orange E of Swift

5713 for Meters

West
Martell
Varenfakis

79

6-22-53

5.82 385 .09

379.27

BM SWBP Swift + El Cajon

0+22 ME	5.0	380.1	380.2	FO ¹	
0+94 ME	5.2	379.9	380.0	FO ¹	
1+05 MW	5.1	380.0	379.7	CO ³	
+30 MW	5.2	379.9	379.6	CO ³	
+34 ME	5.1	380.0	379.8	CO ²	
+62 MW	5.2	379.9	379.5	CO ⁴	
+72 ME	5.2	379.9	379.6	CO ³	
2+08 ME	5.1	380.0	379.5	CO ⁵	
+17 MW	5.6	379.5	379.3	CO ²	
+51 ME	5.3	379.8	379.4	CO ⁴	
+74 MW	6.0	379.1	379.1	CO ⁰	
2+80 ME	5.6	379.5	379.2	CO ³	
3+13 MW	5.7	379.4	378.9	CO ⁵	
+25 ME	5.7	379.4	379.1	CO ³	
+70 ME	5.7	379.4	378.9	CO ⁵	
+95 MW	6.0	379.1	378.6	CO ⁵	
4+10 ME 245	38209	5.65	379.44	378.7	CO ⁷
4+20 MW	3.0	379.1	378.6	CO ⁵	

282.09

4+59 ME 29 379.2 3785 CO²

+69 MW 30 379.1 3784 CO²

+84 ME 32 378.9 3784 CO⁵

+87 MW 32 378.9 3783 CO⁶

5+47 MW 38 378.3 3779 CO⁴

+62 ME 37 378.4 3778 CO⁶

+75 MW 41 378.1 3776 CO⁵

5.19 381.78 5.50 376.59

7.20 383.52 5.96 375.82

4.22 379.30 = 379.27

35 33 20 75

CO² CO⁴
30 26

22

= 375.93

40th STREET
NATIONAL AVE. TO LOGAN
(STAKES FOR WATER METERS)

DWG. # 11859-L

4.42 69.82 65.40

1+25 W

3.8 66.0 65.6 CO⁴

1+75 W

3.8 66.0 66.1 FO¹

2+44 E

2.0 67.8 67.2 CO⁶

4.42 65.40

76
S.W. TOP FIRE HYDRANT 45th & NATIONAL AVE.

S.W. TOP FIRE HYDRANT 40th & NATIONAL AVE.

Naples St
Dorcas To Knoxville

Profile 500 FB 824

6.25	22.44	16.19
0+00		46 17.8
+40 ³³ X		5.2 17.2
+68 ⁴¹		4.8 17.6
1+00		4.8 17.6
+50		4.9 17.5
2+00		4.8 17.6
+50		4.7 17.7
3+00		4.6 17.8
+50		4.5 17.9
4+00		4.3 18.1
+50		4.3 18.1
5+00		4.9 17.5
+50		5.8 16.6
0.67	17.74	537 17.07
6+00		1.7 16.0
+50		2.1 15.6
7+00		3.3 14.4
+50		4.8 12.9
8+00		6.1 11.6

West
Williams
Varonakis

7-6-55

Core Men SW Cor Dorcas + Naples

77

Naples St Cont

78

17.79

8+50 2.7 10.0

9+00 2.8 7.9

10+50 1.39 7.05 1207 5.67

+50 1.3 5.8

10+00 3.8 3.3

+50 4.8 2.3

11+00 5.6 1.5

+50 5.7 1.4

12+00 5.6 1.5

+50 5.6 1.5

13+00 4.6 2.5

+29.3 4.4 2.7

1261 19.45 0.21 6.84

4.91 22.79 1.07 18.38

6.57 16.22 = 16.19

285
2.3

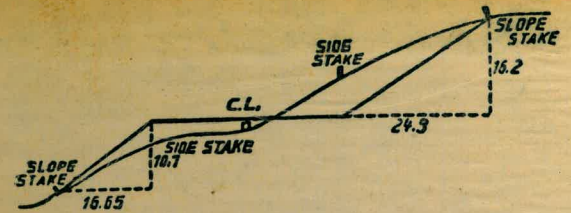
125.04
1.182
136.86

6700

6.50 130.36

2750

2.51 134.25



DISTANCES FROM SIDE STAKES FOR CROSS-SECTIONING.
SLOPE 1 1/2 TO 1. ROADWAY OF ANY WIDTH.

	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	
0	0.00	0.15	0.30	0.45	0.60	0.75	0.90	1.05	1.20	1.35	0
1	1.50	1.65	1.80	1.95	2.10	2.25	2.40	2.55	2.70	2.85	1
2	3.00	3.15	3.30	3.45	3.60	3.75	3.90	4.05	4.20	4.35	2
3	4.50	4.65	4.80	4.95	5.10	5.25	5.40	5.55	5.70	5.85	3
4	6.00	6.15	6.30	6.45	6.60	6.75	6.90	7.05	7.20	7.35	4
5	7.50	7.65	7.80	7.95	8.10	8.25	8.40	8.55	8.70	8.85	5
6	9.00	9.15	9.30	9.45	9.60	9.75	9.90	10.05	10.20	10.35	6
7	10.50	10.65	10.80	10.95	11.10	11.25	11.40	11.55	11.70	11.85	7
8	12.00	12.15	12.30	12.45	12.60	12.75	12.90	13.05	13.20	13.35	8
9	13.50	13.65	13.80	13.95	14.10	14.25	14.40	14.55	14.70	14.85	9
10	15.00	15.15	15.30	15.45	15.60	15.75	15.90	16.05	16.20	16.35	10
11	16.50	16.65	16.80	16.95	17.10	17.25	17.40	17.55	17.70	17.85	11
12	18.00	18.15	18.30	18.45	18.60	18.75	18.90	19.05	19.20	19.35	12
13	19.50	19.65	19.80	19.95	20.10	20.25	20.40	20.55	20.70	20.85	13
14	21.00	21.15	21.30	21.45	21.60	21.75	21.90	22.05	22.20	22.35	14
15	22.50	22.65	22.80	22.95	23.10	23.25	23.40	23.55	23.70	23.85	15
16	24.00	24.15	24.30	24.45	24.60	24.75	24.90	25.05	25.20	25.35	16
17	25.50	25.65	25.80	25.95	26.10	26.25	26.40	26.55	26.70	26.85	17
18	27.00	27.15	27.30	27.45	27.60	27.75	27.90	28.05	28.20	28.35	18
19	28.50	28.65	28.80	28.95	29.10	29.25	29.40	29.55	29.70	29.85	19
20	30.00	30.15	30.30	30.45	30.60	30.75	30.90	31.05	31.20	31.35	20
21	31.50	31.65	31.80	31.95	32.10	32.25	32.40	32.55	32.70	32.85	21
22	33.00	33.15	33.30	33.45	33.60	33.75	33.90	34.05	34.20	34.35	22
23	34.50	34.65	34.80	34.95	35.10	35.25	35.40	35.55	35.70	35.85	23
24	36.00	36.15	36.30	36.45	36.60	36.75	36.90	37.05	37.20	37.35	24
25	37.50	37.65	37.80	37.95	38.10	38.25	38.40	38.55	38.70	38.85	25
26	39.00	39.15	39.30	39.45	39.60	39.75	39.90	40.05	40.20	40.35	26
27	40.50	40.65	40.80	40.95	41.10	41.25	41.40	41.55	41.70	41.85	27
28	42.00	42.15	42.30	42.45	42.60	42.75	42.90	43.05	43.20	43.35	28
29	43.50	43.65	43.80	43.95	44.10	44.25	44.40	44.55	44.70	44.85	29
30	45.00	45.15	45.30	45.45	45.60	45.75	45.90	46.05	46.20	46.35	30
31	46.50	46.65	46.80	46.95	47.10	47.25	47.40	47.55	47.70	47.85	31
32	48.00	48.15	48.30	48.45	48.60	48.75	48.90	49.05	49.20	49.35	32
33	49.50	49.65	49.80	49.95	50.10	50.25	50.40	50.55	50.70	50.85	33
34	51.00	51.15	51.30	51.45	51.60	51.75	51.90	52.05	52.20	52.35	34
35	52.50	52.65	52.80	52.95	53.10	53.25	53.40	53.55	53.70	53.85	35
36	54.00	54.15	54.30	54.45	54.60	54.75	54.90	55.05	55.20	55.35	36
37	55.50	55.65	55.80	55.95	56.10	56.25	56.40	56.55	56.70	56.85	37
38	57.00	57.15	57.30	57.45	57.60	57.75	57.90	58.05	58.20	58.35	38
39	58.50	58.65	58.80	58.95	59.10	59.25	59.40	59.55	59.70	59.85	39
40	60.00	60.15	60.30	60.45	60.60	60.75	60.90	61.05	61.20	61.35	40
41	61.50	61.65	61.80	61.95	62.10	62.25	62.40	62.55	62.70	62.85	41
42	63.00	63.15	63.30	63.45	63.60	63.75	63.90	64.05	64.20	64.35	42
43	64.50	64.65	64.80	64.95	65.10	65.25	65.40	65.55	65.70	65.85	43
44	66.00	66.15	66.30	66.45	66.60	66.75	66.90	67.05	67.20	67.35	44
45	67.50	67.65	67.80	67.95	68.10	68.25	68.40	68.55	68.70	68.85	45
46	69.00	69.15	69.30	69.45	69.60	69.75	69.90	70.05	70.20	70.35	46
47	70.50	70.65	70.80	70.95	71.10	71.25	71.40	71.55	71.70	71.85	47
48	72.00	72.15	72.30	72.45	72.60	72.75	72.90	73.05	73.20	73.35	48
49	73.50	73.65	73.80	73.95	74.10	74.25	74.40	74.55	74.70	74.85	49
50	75.00	75.15	75.30	75.45	75.60	75.75	75.90	76.05	76.20	76.35	50

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