

DEPARTMENT OF THE ARMY
ENGINEERING CENTER
FORT BELLEVILLE, ILL.

ENGINEERS'
LEVEL BOOK

No. 412 F

#724

DISTANCES FROM CENTER OF ROADWAY FOR CROSS-SECTIONING.
 Roadway 16 feet wide. Side Slopes 1 on 1.
 For Single Track Embankment.

H	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	H
0	8.0	8.1	8.2	8.3	8.4	8.5	8.6	8.7	8.8	8.9	0
1	9.0	9.1	9.2	9.3	9.4	9.5	9.6	9.7	9.8	9.9	1
2	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.9	2
3	11.0	11.1	11.2	11.3	11.4	11.5	11.6	11.7	11.8	11.9	3
4	12.0	12.1	12.2	12.3	12.4	12.5	12.6	12.7	12.8	12.9	4
5	13.0	13.1	13.2	13.3	13.4	13.5	13.6	13.7	13.8	13.9	5
6	14.0	14.1	14.2	14.3	14.4	14.5	14.6	14.7	14.8	14.9	6
7	15.0	15.1	15.2	15.3	15.4	15.5	15.6	15.7	15.8	15.9	7
8	16.0	16.1	16.2	16.3	16.4	16.5	16.6	16.7	16.8	16.9	8
9	17.0	17.1	17.2	17.3	17.4	17.5	17.6	17.7	17.8	17.9	9
10	18.0	18.1	18.2	18.3	18.4	18.5	18.6	18.7	18.8	18.9	10
11	19.0	19.1	19.2	19.3	19.4	19.5	19.6	19.7	19.8	19.9	11
12	20.0	20.1	20.2	20.3	20.4	20.5	20.6	20.7	20.8	20.9	12
13	21.0	21.1	21.2	21.3	21.4	21.5	21.6	21.7	21.8	21.9	13
14	22.0	22.1	22.2	22.3	22.4	22.5	22.6	22.7	22.8	22.9	14
15	23.0	23.1	23.2	23.3	23.4	23.5	23.6	23.7	23.8	23.9	15
16	24.0	24.1	24.2	24.3	24.4	24.5	24.6	24.7	24.8	24.9	16
17	25.0	25.1	25.2	25.3	25.4	25.5	25.6	25.7	25.8	25.9	17
18	26.0	26.1	26.2	26.3	26.4	26.5	26.6	26.7	26.8	26.9	18
19	27.0	27.1	27.2	27.3	27.4	27.5	27.6	27.7	27.8	27.9	19
20	28.0	28.1	28.2	28.3	28.4	28.5	28.6	28.7	28.8	28.9	20
21	29.0	29.1	29.2	29.3	29.4	29.5	29.6	29.7	29.8	29.9	21
22	30.0	30.1	30.2	30.3	30.4	30.5	30.6	30.7	30.8	30.9	22
23	31.0	31.1	31.2	31.3	31.4	31.5	31.6	31.7	31.8	31.9	23
24	32.0	32.1	32.2	32.3	32.4	32.5	32.6	32.7	32.8	32.9	24
25	33.0	33.1	33.2	33.3	33.4	33.5	33.6	33.7	33.8	33.9	25
26	34.0	34.1	34.2	34.3	34.4	34.5	34.6	34.7	34.8	34.9	26
27	35.0	35.1	35.2	35.3	35.4	35.5	35.6	35.7	35.8	35.9	27
28	36.0	36.1	36.2	36.3	36.4	36.5	36.6	36.7	36.8	36.9	28
29	37.0	37.1	37.2	37.3	37.4	37.5	37.6	37.7	37.8	37.9	29
30	38.0	38.1	38.2	38.3	38.4	38.5	38.6	38.7	38.8	38.9	30
31	39.0	39.1	39.2	39.3	39.4	39.5	39.6	39.7	39.8	39.9	31
32	40.0	40.1	40.2	40.3	40.4	40.5	40.6	40.7	40.8	40.9	32
33	41.0	41.1	41.2	41.3	41.4	41.5	41.6	41.7	41.8	41.9	33
34	42.0	42.1	42.2	42.3	42.4	42.5	42.6	42.7	42.8	42.9	34
35	43.0	43.1	43.2	43.3	43.4	43.5	43.6	43.7	43.8	43.9	35
36	44.0	44.1	44.2	44.3	44.4	44.5	44.6	44.7	44.8	44.9	36
37	45.0	45.1	45.2	45.3	45.4	45.5	45.6	45.7	45.8	45.9	37
38	46.0	46.1	46.2	46.3	46.4	46.5	46.6	46.7	46.8	46.9	38
39	47.0	47.1	47.2	47.3	47.4	47.5	47.6	47.7	47.8	47.9	39
40	48.0	48.1	48.2	48.3	48.4	48.5	48.6	48.7	48.8	48.9	40

Example—If point is 22.6 ft. above grade, how far should it be from center line to be a slope stake point? Ans. from Table 30.6. For same slopes but other widths of roadbed, correct above figures by one-half difference in width of roadbed; thus in example above, for 20 ft. roadbed distance will be 30.6 + (20 - 16) * 2 or 2 ft. added to 30.6 = 32.6. For slopes of 1 on 1½ see inside of back cover.

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1143898
 7430
 12 13.30 24 - 2 - 1
 Polymor

73
 1.30
 74.38
 10
 84.32
 393.69
 1.59
 395.28
 288.6
 6.68
 23.0
 1.5
 21.5

Please Return to
 City of San Diego Water Dept.
 Room 900 Civic Center
 Telephone Main 5161

This Field Book is manufactured of a High Grade 50% Rag Paper having a WATER RESISTING SURFACE, and is sewed with Bing Special Enamel Waterproof thread.

Made in U. S. A.

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Indexed
mjd

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April 17-50

METER GRADES.

ARCHER ST. LIND-CASS.

0+00 = E line LAJOLLA MESA DRIVE

NORTH SIDE		SOUTH SIDE	
		0+46	F07
		0+80	F05
0+93	C05		
1+04	C06		
1+57	C09		
2+02	C08		
2+65	C10		
		2+99	F06
3+48	F07 C06	3+48	GT-F02
		4+78	C04
		5+46	C01
6+06	C00	6+13	F01
		6+66	F02 C01
8+28	F40	8+97	C10
		9+52	C02
		9+94	C02

April 17-20

WATER GRADES

BRICKER ST. 1100-1125

CHICAGO LAUNDRY BLDG

SOUTH SIDE

NORTH SIDE

607
608
609

610
611
612

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660

26.19
29.25
27.01
26.26
26.60

26.19
29.25
27.01
26.26
26.60

Bliss
 Le. and x
 Baker
 10/16/47
 Finish Profile Est. Monte PL.

10.27	389.44		379.17
172		6.5	382.9
+22		10.0	379.4
+35		7.0	382.4
+44		4.3	385.1
+50		3.1	386.3
TP	5.71	394.56	0.59 388.85
180 to 00		3.2	391.4
+50		1.8	392.8
181		2.8	391.8
+40		4.7	389.9
+50		5.3	389.3
BC +83 ²⁵		7.3	387.3
182		8.4	386.2
+50		9.2	385.4
183		7.2	387.4
09 ⁸⁰ EC		7.3	387.3
+50		4.6	390.0

394.56

Sec 2 From	1791.00	to	1944.18 ²³
183 to 60 ²⁰ EC		3.4	391.2
+79		0.1	394.5
TP	12.66	406.97	0.25 394.31
+94		10.0	397.0
184		9.2	397.8
+50		0.6	406.4
TP	12.47	417.75	1.69 405.28
+88 ¹¹ EC		5.8	412.0
185		4.9	412.9
+50		0.8	417.0
TP	11.75	429.09	0.41 417.34
+70 ⁶¹ EC		9.5	419.6
186		4.7	424.4
TP	11.11	440.03	0.17 428.92
+50		9.5	430.5
187		4.0	436.0
+31	Ch. Bluff	Topcon	0.99 439.0
	SW Cor	Box	
Set up	Box	1.03	439.00

		T 440.03	
187	150	2.3	437.7
188		4.6	435.4
TP	0.47	427.62	12.88 427.15 ✓
+50		1.0	426.6
+76	¹⁹ EC	6.4	421.2
189		10.6	417.0
+44		15.6	412.0
+56		16.5	411.1
+51	⁹⁹	16.5	411.1
190		15.6	412.0
TP	1.31	415.97	12.96 414.66 ✓
+50		4.1	411.9
+61	²⁴ BC	3.7	412.3
191		6.2	409.8
+50		11.9	404.1
TP	0.20	403.62	12.55 403.42 ✓
192		5.7	397.9
+50		11.4	392.2

		T 403.62		3
193		12.7	390.9	
TP	0.64	391.43	12.83 390.79	
08	²⁶ EC	4.9	386.5	
+11		5.9	385.5	
+30		5.7	385.7	
+50		5.6	385.8	
194		7.7	383.7	
+18	²³	7.9	383.5	
TP	2.70	381.15	12.98 378.45 ✓	
check BM		6.89	374.46 ✓	Record

6" MAIN - FRONT ST.
PALM to QUINCE

3/7/50

4

B.M.	10.74	218.76		208.02	
(D)	8.42	226.52	0.66	218.10	
0+00	= X Prop. Line Point (4) = 14' from E Front St.			2225 218.5	219.7
+50		6.84	219.68	215.6	215.7
1+00		10.25	216.25	211.5	211.5
(D)	0.11	213.55	13.08	213.04	
+50		0.87	212.68	208.0	208.0
2+00		4.57	209.98	204.5	204.5
+50		7.32	206.23	201.0	201.0
+50	FH = 22' from E ST				
+50	(5) FH = 27' " "			6.27	207.18
3+00		7.83	205.72	197.5	197.5
3+26		8.67	204.88	197.5	197.5
	(4) NOTE			8.33	205.22
0+50		9.82	203.73	198.5	198.5
0+75		8.70	204.85	199.0	199.0
OK B.M.		5.52	208.03		

May 2 1950

Beatty
Rogers
Payne

387.09

5

GRADES FOR METERS, IN ALLEY
BETWEEN 34TH & FELTON - MONROE TO MADISON

D.P. 3E CUR

389.20

Dist	Grade	34 th & Felton	Monroe	Madison	Dist	Grade	34 th & Felton	Monroe	Madison
DN	4.68	393.04	388.36	389.20	5.57	391.91	2.86	386.34	
SEE BK 793 pp. 12									
DP	5.74	389.20	9.58	383.46	2+80	W	4.9	387.0	386.3 C07
0+00	= No. Prop Line Monroe				4+05	E	4.6	387.3	386.2 C09
0+01	EAST (55 E & Alley)	5.6	388.6	383.6 C00	4+24	W	4.6	387.3	386.6 C07
0+03	WEST (55 W & Alley)	5.4	383.5	383.5 C03	4+57	E	4.7	387.2	386.8 C04
0+19	WEST	4.9	384.3	383.7 C06	4+66	W	4.9	387.0	386.9 C01
0+27	EAST	5.0	384.2	383.8 C04	5+21	E	4.3	387.6	387.2 C04
0+57	WEST	4.2	385.0	384.2 C08	5+21	W	4.5	387.4	387.2 C02
0+65	EAST	4.9	384.3	384.2 C01	5+69	E	3.8	388.1	387.6 C05
1+18	WEST	4.2	385.0	384.6 C04	5+91	W	3.5	388.4	387.6 C08
1+28	EAST	4.2	385.0	384.7 C03	5+93	E			
1+63	WEST	4.6	384.6	385.0 F04	5+94	E	3.4	388.5	387.6 C09
1+71	EAST	4.2	385.0	385.1 F01	6+14	E	3.8	388.1	387.6 C05
2+11	WEST	3.7	385.5	385.2 C03	6+13	W	3.7	388.2	387.5 C07
2+19	EAST	3.9	385.3	385.3 C00	OK TP		4.84	387.07	387.09 on curb
2+68	WEST	3.5	385.7	385.6 C01					
2+71	EAST	3.4	385.8	385.6 C02					
3+12	EAST	2.8	386.4	385.8 C06					
3+25	WEST	2.8	386.4	385.9 C05					
3+59	EAST	2.9	386.3	386.2 C01					

May 23, 1950

GRADES FOR 6" MAIN, NASHVILLE			MORENA TONAPAH		
B.M. OR ON GRADE					
P	2.64	12.68	10.02		
P	5.16	12.45	5.39	07.29 ✓	4 MORENA (or Propio)
0+00	(CONN. TO MAIN ON MORENA)		5.3	07.2	06.9 02.4 C48
+25	(A) = 14' S.E. of ST.		5.6	06.9	06.9 02.4 C45
+49	So. Prop. LINE NASHVILLE		6.6	05.9	06.9 02.4 C35
+59	5' OFFSET F.H. = 24.25 So. E ST.		6.4	06.0	07.5 F15
1+00			6.8	05.7	07.0 02.5 C32
+50			6.8	05.7	07.2 02.7 C30
2+00			6.7	05.8	07.4 02.9 C28
+50			6.8	05.7	07.6 03.1 C26
3+00			6.4	06.1	07.8 02.3 C28
+50			6.4	06.1	08.0 03.5 C26
4+00			6.5	06.0	08.2 03.7 C22
+50			6.6	05.9	08.4 03.9 C20
5+00			6.5	06.0	08.6 04.1 C19
+50			6.7	06.3	08.7 04.2 C17
6+01	Conn. to Cross Tonapah		4.3	08.2	08.8 04.3 C39

May 24, 1950 6

GRADES FOR 6" MAIN, BELLEVUE			COLIMA MIDWAY		
P					
P	3.20	123.79	120.58		End Curb E. Side Colima
0+00	CONN. TO G.V.				118.6
+50	(A) = 14' E. E ST.		2.6	121.2	118.8 114.3 C67
1+00			3.8	120.0	118.9 114.4 C56
+50			5.1	118.7	119.1 114.6 C41
2+00			5.5	118.3	119.3 114.8 C35
+50			5.2	118.6	119.4 114.9 C37
3+00			4.9	118.9	119.6 115.1 C38
+50			5.2	118.6	119.8 115.3 C33
4+00			5.9	117.9	120.0 115.5 C32
+55			6.1	117.7	120.1 115.6 C21
5+00			5.4	118.4	120.3 115.8 C25
+50			6.3	119.5	120.5 116.0 C33
+75	(S) F.H. = 23' E E ST		3.25	120.53	121.10 C2
+75	(S) Pipe Line		3.3	120.5	116.2 C43
5+85	CONN. TO 6" MAIN				120.65
			3.14	120.64	End Curb W. Side Midway

May 26, 1950

GRADES FOR 6" MAIN - PAUL ST		MORENA		10' on Bridge	
		TERRAPIN		MORENA Blvd	
B.M.	2.64 12.68	10.04	05.2	05.2	00.7 C45
0+00	(CONN TO MAIN)	7.5	05.2	05.2	00.7 C45
0+25		7.5	05.2	05.2	00.7 C45
+50	(NOR PL MORENA)	7.5	05.2	05.2	00.7 C45
1+00		7.4	05.3	05.6	01.1 C42
+50		7.2	05.5	06.1	01.6 C39
2+00		7.2	05.5	06.5	02.0 C35
+50		7.3	05.4	07.0	02.5 C29
3+00		6.0	06.7	07.5	03.0 C47
+50		3.7	09.0	08.6	04.1 C29
4+00	(@ 12' NOR Prop Line)	1.4	11.3	10.4	05.9 C54
D'Rock	13.03 25.43	0.28	12.40		
+50	(@ 10' NOR Prop Line)	11.4	14.0	13.1	08.6 C54
5+00		8.4	17.0	16.4	11.9 C51
+50	(@ 10' NOR Prop Line)	4.2	21.2	20.2	15.7 C55
6+00	(@ 8' NOR Prop Line) (Projected)	0.8	24.6		CONN TO MAIN

JUNE 23, 1950

2-798-5

Booth
West
Shipman

7

DEL MAR ST - Chatsworth to Catalina					
B.M.	4.45 220.28			215.83	
TEP		Top 8.60		210.38	210.4
		Bot 9.90			
-1+00		4.96		215.32	210.4 C29
0-50		5.87		214.41	210.3 C21
0+00		6.39		213.89	212.8 C30
F.H. 0400 4		6.26		214.02	215.37 F125
F.H. 0400 5		6.24		214.04	F133
0+50		6.89		213.39	214.3 C36
				209.8	
1+00		7.80		212.48	213.3 C37
				208.8	
1+50		9.56		210.72	211.4 C38
				206.9	
2+00		11.34		208.94	208.6 C46
D	0.10 207.28	13.10		207.18	204.3 C46
2+50		1.66		205.62	205.4 C45
				200.9	
3+00		4.47		202.81	202.0 C53
				197.5	
3+50		8.32		198.96	198.5 C50
				194.0	
4+00		12.15		194.13	195.0 C36
D	0.73 195.87	12.14		195.14	190.5 C36
+50		4.25		191.62	191.6 C45
				187.1	
5+00		7.02		188.85	188.7 C43
				184.2	
+50		8.67		187.20	186.7 C47
				182.5	
6+00		9.93		185.94	181.9 C40
				180	

6/23/50

8

DEL MAR ST - Chatsworth to Catalina

195.87

6+50 10.85 185.02 181.0 °40

7+00 11.37 184.50 181.00 °35

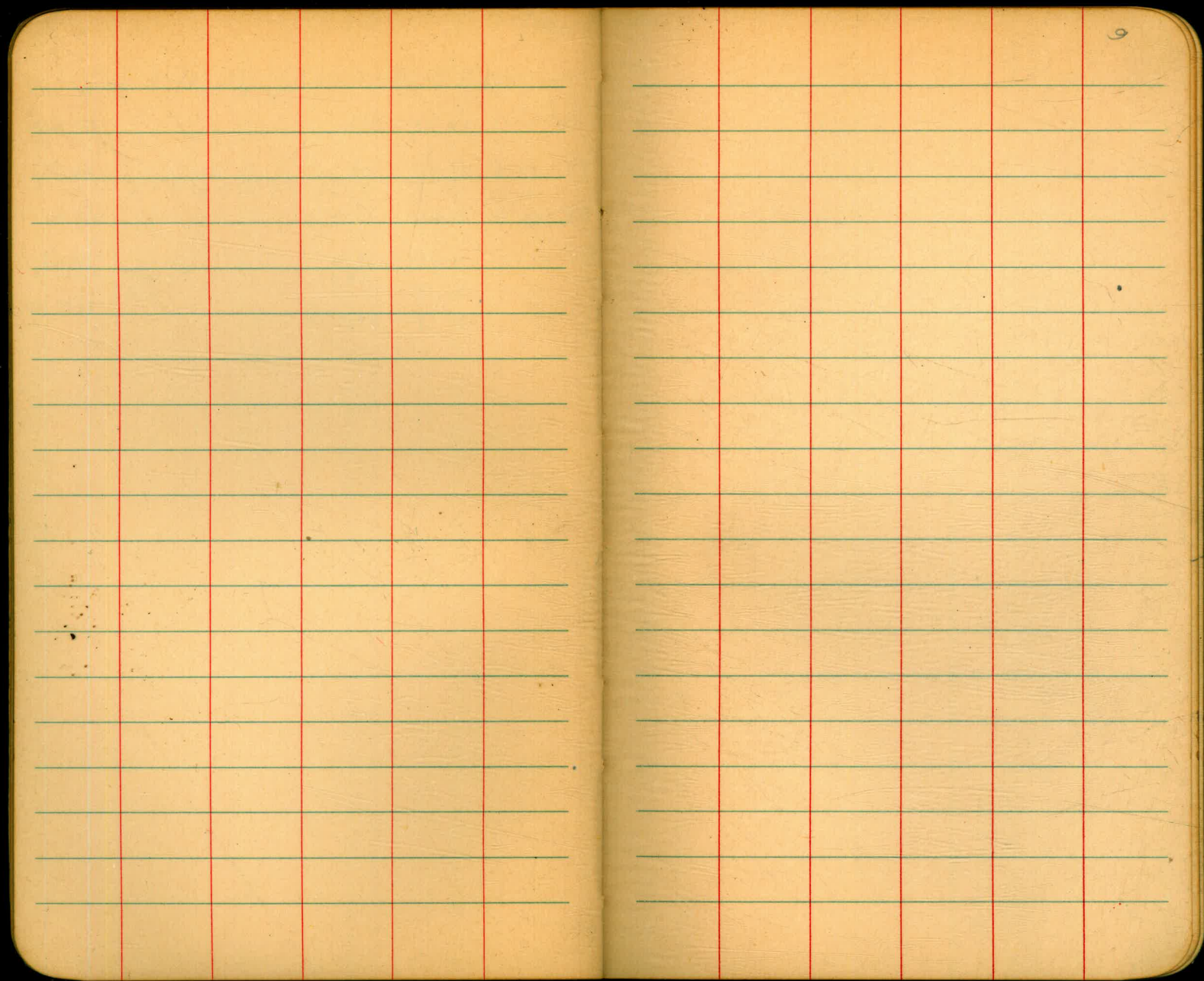
+29 6.25 ^{3.20} crosses 188.49 16.52 185.13 181.00

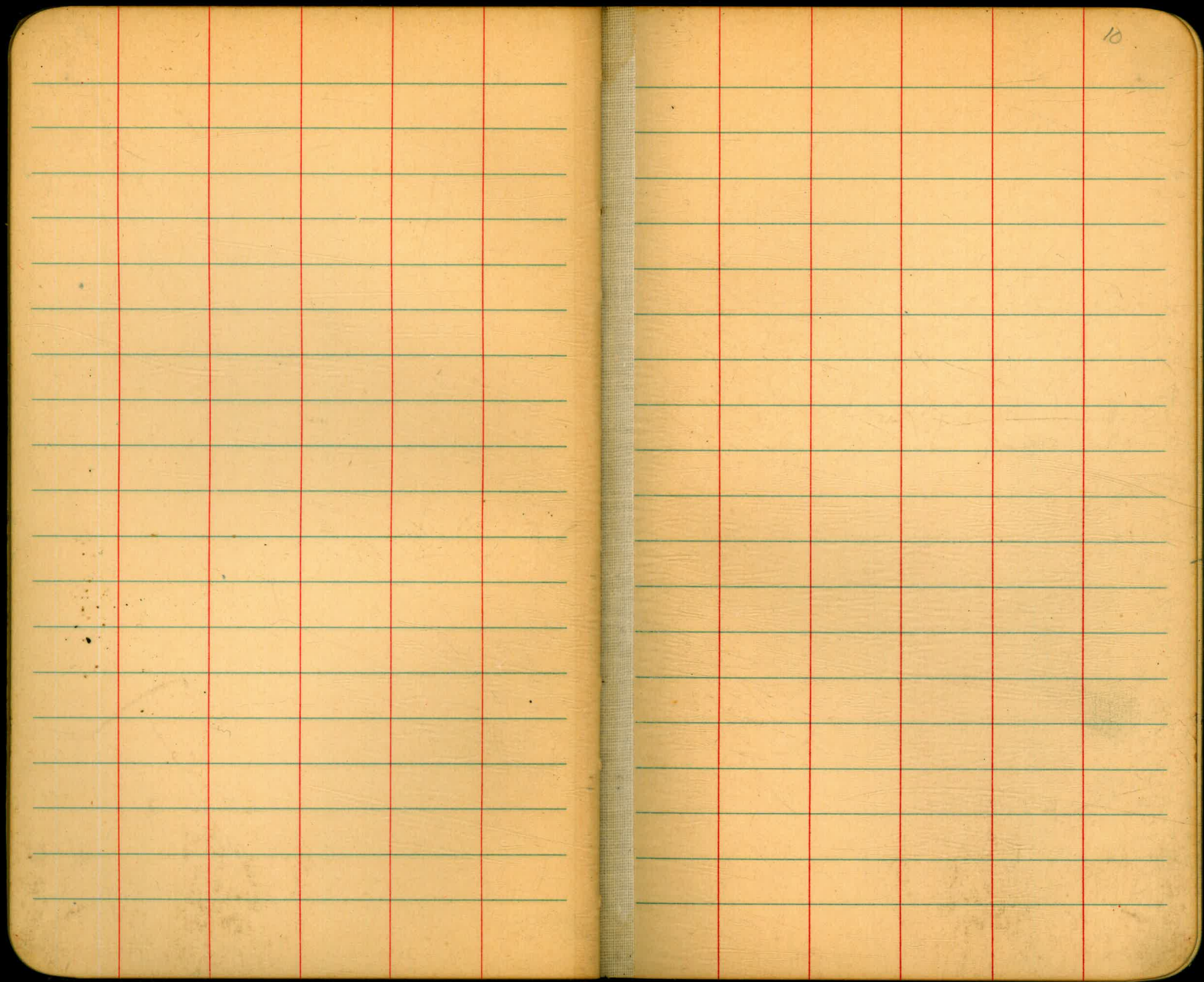
+50 4.10 184.33 181.00 °33

8+00 4.31 184.12 181.20 °29

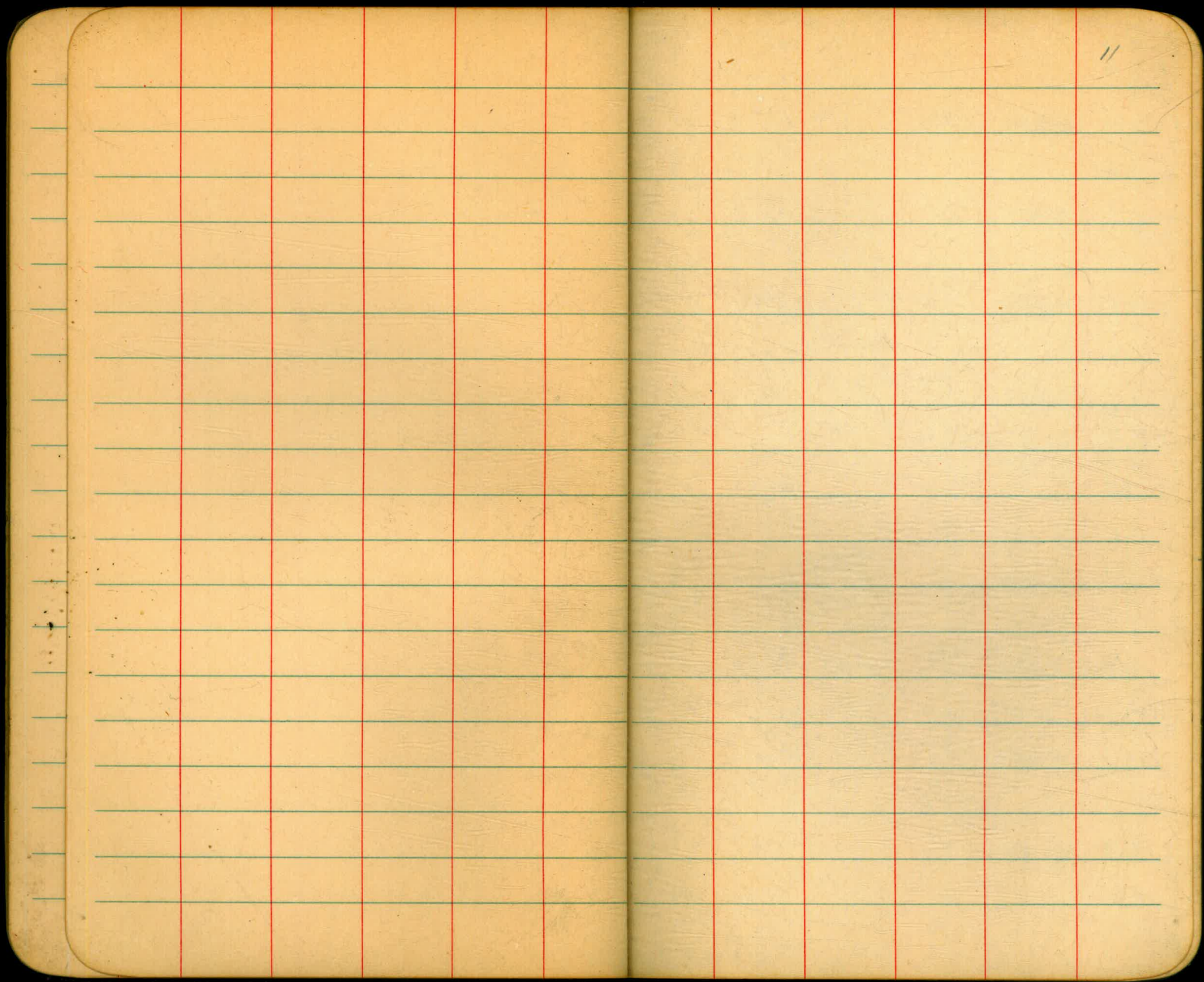
OK BM ^{Top 6"} 6.43 181.40 181.40^{Bot} 7.03 181.40 181.40

0.85 187.58 - 187.53





10



11

Bliss Notes
 Leona - dx
 Baker &
 10/21/47
 BM
 Finish Profile Chalk Hill 647+25 11

	+	T	-	Elev
Ref X Hub	12.08	544.03		532.01
16 L+54 647 see 58.685 p.74 547+25 21 = 25.23			3.0	535.1
647+50			7.3	536.8
648			2.9	541.2
TP	12.72	556.66	0.15	543.94
+50			11.0	545.7
649			6.7	550.0
+50			1.3	555.4
TP	12.13	568.70	0.09	556.57
650			4.8	563.9
TP	5.11	572.84	0.97	567.73
+50			3.1	569.7
+66			2.4	570.4

To	+	T	-	Elev	12
653+28 ⁰⁰ BC				572.84	
ch shutoff + 70 Bot			2.55	570.3	
+83 ⁴⁰ or 23 ⁰⁰ BC			3.0	569.8	
651			3.8	569.0	
+50			8.8	564.0	
check BM			10.83	562.01	Nail in TP 25' Lt 651+80+
				562.06	Record
				0.02	
TP	0.29	560.11	13.02	553.82	
652			3.3	556.8	
+50			7.9	552.2	
653			11.1	549.0	
+28 ⁰⁰			12.0	548.1	
TP	2.96	551.87	11.20	548.31	
check BM			10.29	541.58	Spikern 6.12 - RR SECOR
				535.46	Record
				535.31	CH/Cal

Finish Profile from 531+31¹⁵ BC
51 Monte pt. Sec 4

BM	864	550.62		541.98
531+31 ¹⁵ BC			4.3	546.3
+50			3.3	547.3
TP	8.72	559.15	0.19	550.43
532			8.7	550.5
+46			8.6	550.6
+50			8.3	550.9
+57			8.5	550.7
533	Ground		8.7	550.5
	Top Bloroff Chamber		7.5	551.7
+50			8.8	550.4
534			9.7	549.5

to				
		359.15		
534+50			10.0	549.2
335			9.4	549.8
+50			10.5	548.7
+6 ²³ ₆₀ BC			10.9	548.3
536			7.7	551.5
+50			13.1	546.1
TP	5.71	552.73	12.13	547.02
537			7.1	545.6
+13 ¹⁵ BC			6.6	546.1

Bliss
Leonard T
Baker
10/21/47

13

7
552.73

537+50 7.4 545.3

+80 9.0 543.7

538 8.0 544.7

+50 6.6 546.1

539 6.6 546.1

+50 6.4 546.3

540 6.3 546.4

+24^{of} EC 7.0 545.7

+50 7.7 545.0

7
552.73

14

541 8.4 544.3

+50 9.5 543.2

542 9.9 542.8

+50 11.2 541.5

+96 ^{TOP}_{Box} 11.93 540.80

543 12.7 540.0

^{NW}_{Cor} TP ^{Value top} 4.18 544.99 11.92 540.81

+25 5.2 539.8

+50 3.6 541.4

↑
544.99

544 3.6 541.4

+50 3.3 541.7

545 4.6 540.4

+50 5.0 540.0

+85 5.1 539.9

546 5.3 539.7

+50 5.5 539.5

547 6.1 538.9

+50 6.7 538.3

548 6.9 538.1

TP 5.80 546.61 4.18 540.81

546.61

15

548+50 8.6 538.0

TP 3.16 541.59 8.18 538.43

549 2.9 538.7

+50 3.6 538.0

550 2.4 539.2

+50 2.5 539.1

+38⁹¹ 2.1 539.5

551+0.5 8.0 2.4 539.2

+50 2.5 539.1

552 3.8 537.8

54159

552150 5.5 536.1

553 8.5 533.1

+50 13.0 528.6

TP 0.41 529.05 12.95 528.64

554 5.1 524.0

+15 6.9 522.2

+50 10.9 518.2

+72 12.8 516.3

TP 3.53 519.75 12.83 516.22

555 5.6 514.2

+50 7.0 512.8

51975

16

+62 7.5 512.3

+73 7.3 512.5

+80 7.2 512.6

+81 to Blomhoff Box 4.40 515.35

set BM
NE Cor
B.O. Box

556 6.8 513.0

+08 6.5 513.3

+26⁵⁵ EC 4.9 514.9

+50 3.5 516.3

557 0.8 519.0

TP 8.45 527.78 0.42 519.33

+30 7.7 520.1

7
527.78

+50 6.9 520.9

358 4.8 523.0

+12 4.7 523.1

+50 5.8 522.0

559 9.7 518.1

+25 11.0 516.8

+50 10.5 517.3

560 7.0 520.8

+50 3.5 524.3

7
527.78

17

561 2.6 525.2

+29 3.3 524.5

+33 Z
4. Air valve
box 5.45 531.16 ✓ 2.07 525.71 ✓ Top Air
Valve Box
N.E. Corner

+50 6.3 524.9

562 6.4 524.8

+34 7.1 524.1

+50 8.1 523.1

563 8.8 522.4

+13 9.2 522.0

7
53/16

563+50 100 521.2

564 11.2 520.0

750 12.4 518.8

565 13.5 517.7

check
DM. RP. POT

11.05 520.11

✓ 565787⁰⁶

18

Reprofile from 223+80 to

19

Finish Profile from 617+67 ⁰²					
BM	4.76	543.10		538.34	Spike in pp. 5 to 6 105 ft
T.P.	0.16	534.65	8.51	534.49	626+50 Sec 18 685 1071
T.P.	0.41	523.19	11.87	522.78	
T.P.	1.70	512.04	12.85	510.34	
Set BM	11.25	514.38	8.31	503.73	NW Corner Blowoff Box 617+58
617+67 ⁰²			13.8	501.2	
618			10.5	504.5	
+50			5.9	509.1	
619			2.6	512.4	
T.P.	12.08	526.68	0.38	514.60	
+50			11.0	515.7	
620			7.0	519.7	
+50			3.0	523.7	

T 526.48					
to 626+25 ²⁰					Bliss Notes Leonard T Baker & 10/27/47
+67 ⁶⁵ EC		1.8		524.9	
T.P.	11.85	538.28	0.25	526.42	
621			11.7	526.6	
+50			9.5	528.8	
622			8.7	529.6	
+50			7.9	530.4	
+77 ²⁴ BC			6.8	531.5	
623			5.5	532.8	
+50			2.2	536.1	
T.P.	12.46	549.79	0.95	537.33	
624			10.5	539.3	

X
549.79

624.50

8.1 541.7

625

6.1 543.7

150

4.4 545.4

108^B

3.37 546.42

W. Edge
Blow off
Box NW
Cor.

62.5

4.9 544.9

125²⁰ E.C.

4.7 545.1

Check
Starting 8 AM.

11.44 538.35

JAN 31, 1949

GRADES FOR WATER LINE
CABRILLO AVE. NOR. & SO. of PEARL

1388 N
CALLE
ROGERS
NW COR. NW
COR. RIVERA
PEARL & CABRILLO

T.B.M.	8.25	163.67		155.32	
TP	8.16	171.65	0.18	162.49	
0+00					172.0
					168.0 C79
+50			5.0	166.7	168.8 C30
					164.5 C79
					164.5
1+00			8.1	163.6	160.5 C31
					160.5
+50			10.5	161.2	156.5 C27
					156.1
2+00			12.1	159.6	154.1 C55
TD	3.39	162.95	12.09	159.56	157.3
+50			4.5	158.5	153.2 C52
					150.9
3+00			4.9	158.1	152.9 C51
					156.5
+50			5.6	157.4	152.5 C49
					156.0
4+00			6.4	156.6	152.0 C48
					155.7
+50			6.2	156.6	151.7 C49
					155.0
TD			1.07	156.79	7.63
+85°			1.5	155.3	151.0 C43
					154.7
5+00			1.8	155.0	150.7 C43
					152.2
+50			4.4	152.4	148.2 C38
					146.9
6+00			8.8	148.0	142.9 C51
TD	0.61	142.82	12.58	142.21	141.6
+50			2.2	142.6	139.6 C50

22

					142.82			137.9
7+00						5.6	139.2	132.9 C53
								136.1
+50						7.4	137.4	132.1 C53
								135.2
8+00						8.3	136.5	131.2 C53
								134.4
+50						8.9	135.9	130.4 C55
								134.7
9+00						8.8	136.1	131.7 C44
								136.3
+50						7.7	137.2	132.3 C49
								137.2
9+75°						6.6	138.2	133.2 C50
OR TP						1.86	142.96	

N. PROP LINE CABRILLO AVE,
INTERSECTION OLIVET ST.
EWE

2/24/29
 Oyster
 Baker
 Rogers

WATER LINE WINCHESTER ST

BN	0.73	244.84		244.11		
IP	1.79	236.61	10.02	234.82		
0+00			10.94 Pav.			
+40			11.53 @	225.08	C 3 ¹	
			10.66 Pav.			
+40			11.52 @	225.09	C 3 ²	
			8.71 Pav.			
1+00			9.17 @	227.44	C 3 ⁵	
			4.72 Pav.			
+50			3.20 @	233.41	C 5 ⁵	
IP	11.38	246.84	1.25	235.46		
2+00			9.65 Pav.			
			7.97 @	238.57	C 5 ⁷	
			4.89 Pav.			
+50			3.67 @	243.97	C 5 ⁴	
IP + 923			2.65 Pav.			
2+273	652	250.63	1.29 @	244.11	C 5 ²	
			4.4	246.2	245.0 C 5 ²	
					245.2	
+426	E.P.L.		4.7	245.9	241.2 C 4 ⁷	
			4.9	245.7	245.0 C 6 ³	
+676	F.H. 125 @ 175		3.7	247.3	241.0 C 8 ³	
					245.3	
4+00			5.0	245.6	241.3 C 4 ³	
					246.0	
+50			4.9	245.7	242.0 C 9 ⁷	
					247.0	
5+00			3.7	246.9	243.0 C 9 ⁹	
					249.3	
IP + 50			1.3	249.3	245.3 C 4 ⁰	
IP	12.87	262.20	1.30	249.33	249.1	
6+00			9.8	252.2	248.1 C 4 ³	
					255.0	
+50			6.7	255.5	251.0 C 4 ⁵	
					258.0	
7+00			3.6	258.6	254.0 C 4 ⁶	

2/24/29
 23

					264.20	260.9
					7+50	260.9
					11.21	273.37
					13	260.9
					0.04	262.16
					8+00	257.5 C 5 ¹
					10.8	262.6
						261.6
					+24 ³ Cross	257.6 C 5 ⁸
					10.0	263.4
						263.0
					+50	259.0 C 5 ¹
					9.3	264.1
						264.0
					9+00	260.0 C 4 ⁸
					8.6	264.8
						264.7
					+50	260.7 C 4 ⁶
					8.1	265.3
						265.4
					10+00	261.4 C 4 ⁵
					7.5	265.9
						266.3
					+50	262.3 C 4 ¹
					7.0	266.4
						267.1
					11+00	263.1 C 2 ⁰
					6.3	267.1
						268.1
					+398 Cross	264.1 C 4 ⁵
					4.7	268.7
						267.4 + 50
					+798 F.H.	270.5 C 4 ⁷
					2.2	271.2
					+798 @	266.5 C 0 ⁵
					2.4	271.0
					IP	0.39
						261.72
					12.04	261.33
					IP	1.16
						251.83
					11.05	250.67
					OK B.N.	7.72
					IP	10.07
						278.77
					12+00	268.70
						271.3
						267.2 C 5 ²
					6.1	272.7
						274.5
					+25	270.7 C 4 ⁰
						273.8
					+50	276.9
					1.6	277.2
					IP	3.7
					11.89	272.2
					1.65	277.12
					+75	279.2
						275.2 C 3 ⁹
					9.5	279.5

Cont'd to page 33.

Profile from 223+80 to 237+0

(Note: Start at end and work back, A.R.)

Check BM 3.91 365.20 ^{Nail in} _{post}

TP. 1.54 369.11 12.41 367.57

223+80 15.1 364.9

224 13.6 366.4

+25 11.2 368.8
367.8

+50 7.4 372.6

+75 4.4 375.6
374.6

TP. 0.27 379.98 12.87 379.71

225 13.2 379.4

392.58

+25 10.2 382.0

+50 8.1 384.5

+75 6.3 386.3

226 4.3 388.3

+20 3.5 389.1

226 227 228 East Edge of S. 4 Box

Set 001

16.4 390.94

SE Cor of Blowoff Box

+40 3.9 388.7

+50 4.1 388.5

+25 ²⁺⁷⁵ A.R. 5.8 386.8

227 8.1 383.9

392.58

25

+25 12.5 380.1

TR 12.40 392.58 ✓ 6.15 380.18 ✓

+50 5.4 374.9

+75 9.5 370.8

+85 11.2 369.1

TP 12.62 380.33 ✓ 0.37 367.71 ✓

228 6.9 367.2

+13 1.8 366.3

+24 4.51 363.57

Top Irrigation

Pipe

+25 2.6 365.5

+45 2.8 365.3

229 3.1 365.0

368.08

125 3.3 364.8 ✓

155 3.6 364.5 ✓

230 4.0 364.1 ✓

150 4.5 363.6 ✓

231 4.9 363.2 ✓

150 5.1 363.0 ✓

232 5.5 362.6 ✓

150 5.5 362.6 ✓

233 5.4 362.7 ✓

368.08

TP. 5.15 368.08 ✓ 3.97 362.93 ✓

150 4.1 362.8 ✓

234 3.9 363.0 ✓

150 3.7 363.2 ✓

235 3.9 363.9 ✓

150 4.4 362.5 ✓

236 4.5 362.4 ✓

150 4.7 362.2 ✓

237 5.2 361.8 ✓

BM 3.93 366.90 ✓ 362.97 NECor

(W.D. # 2-542-5)

JAN 27, 1929
Meters 4110/29

3004
CORR
ROD 13

JAN 28, 1929 27

WATER LINE GRADES F ST - 39th ST.

T.B.M.	3.10	155.70	152.60	Lot Cor SE Cor Brdy SE
0+00	Hub 11' Nbr (10' West) Brdy & F	2.4	153.3	151.6 147.4 c59
0+10		2.9	152.8	151.2 147.2 c59 146.6
0+50	F ST	6.7	149.0	142.6 c64
0+75		8.8	146.9	142.3 c66
1+00		11.0	144.7	143.4 139.4 c53
+0320		11.3	144.4	143.3 139.3 c51
+0920		11.5	144.2	143.3 139.3 c49
+50		11.1	144.6	140.2 c48
1+63	MET (75E @)		N. 145.7 S. 145.6	142.3 c49 140.3
2+00	39th ST	9.7	146.4	141.4 c50
2+03	MET (75E @)		N. 146.5 S. 146.5	145.3 c52 146.6
+50		8.5	147.2	142.6 c46
3+00		7.6	148.1	147.7 143.7 c44
+50		6.8	148.9	148.9 144.9 c42
3+88	MET (35E W @)		N. 150.7 S. 150.7	150.7 c02
4+00		5.9	149.8	150.5 146.5 c33
4+22	MET (75E @)	11.3	151.0	152.2 c38 148.2 151.3 150.4 c33
5+00		9.1	153.2	150.4 c28
+50		5.8	156.5	157.5 153.5 c30
6+03	MET (35E W @)		N. 161.7 S. 161.4	161.5 c01 160.8
6+00		2.3	160.0	156.8 c32
TD	9.47	171.31	0.41	161.84 164.5 160.5 c30 166.7
+50		7.8	163.5	166.0 166.0
+98	P.L.			
6+83	F.H.			
6+83	F.H.			

			171.31	
7+00		4.0	167.3	166.7 162.7 c26
T.B.M.		2.20	169.10	Top 1 1/2' 11' 1/2' E Hilltop 2 39th
T.B.M.		1.27	153.87	5 B. Lot Cor Boundary & F
TD		1.50	142.83	12.54 121.33 139.86 139.92 c14 B
0+00	16' W. Prop. Cor. Nor Edge Conc Pav't	4.4	138.4	138.6 136.6 c38
0+50		6.2	136.6	138.8 c30 134.8 c18
1+00		8.6	134.2	138.9 c30 134.9 c07 139.2
+60		9.1	133.7	135.2 c25 139.4 c20
2+00	Boundary	7.8	135.0	135.4 c04 139.7 c20
+50		5.3	137.5	135.7 c18 140.3
2+00		11.70	152.06	2.47 140.36 136.3 c41 141.5
+50		8.8	143.3	137.5 c38 143.0
4+00		6.6	145.5	139.0 c65 144.7
+50		5.2	146.9	140.7 c62 145.5
5+00		3.5	148.6	141.5 c71 147.2
+50		2.1	150.0	143.2 c68 148.8
6+00		0.9	151.2	146.8 c64
TD		5.56	156.87	0.75 151.31 150.6
+50		4.4	152.5	146.8 c57

W.O. # 2-542-5 1/28/29

WATER LINE GRADES - Hilltop

6+569	F.H. 6 F.H. ①	11.5E E PAPE 11.5E 4 "	2.6 2.4	152.3 152.5	150.8 150.8	C15 C17
6+838	BK = 6+93 AH.		3.4	153.5	147.7	C58
7+038	+ 0+00 (previous page)		2.5	153.4	147.4	C60
CK TBM.			4.30	152.57 =	152.60	
TBM.	2.88	171.98		169.10	Top 1 1/2 I.P. E 39 1/4 Hilltop	
7+293		Hilltop			166.0	
7+373	TEE	3 1/2 I.P.	3.6	168.4	162.0	C60
+50			4.5	167.5	161.9	C59
+633	TEE		5.4	166.6	161.7	C69
8+00			7.4	164.6	161.2	C32
+50			8.0	164.0	161.8	C30
9+00			5.8	166.2	162.6	C30
+50			3.4	168.6	165.3	C33
10+00			1.5	170.5	166.6	C39
+483	E QUAIL 1/2 I.P.				172.2	
+50			0.2	171.8	168.2	C36
B.M.	11.83	182.96	0.85	171.13	173.7	
11+00			10.0	173.0	169.7	C33
+50			8.8	174.2	171.3	C30
12+00			6.9	176.1	172.9	C32

1/28/29

28.

12+50				182.96		178.4
13+00			4.6	178.4	175.4	C30
+50			2.9	180.1	179.9	C42
TBM.	2.733	E QUAIL 1/2 I.P.	1.5	181.5	180.9	C26
14+00			1.80	181.16	181.0	C40
+50			1.7	181.3	181.0	C43
15+00			2.9	180.1	180.4	C37
15+00	3.70	182.90	3.8	179.2	179.6	C35
+50			4.6	178.3	178.6	C37
16+00			6.3	176.6	177.0	C36
+50			9.2	173.7	174.2	C32
TBM +983	E RAVEN 1/2 I.P.		11.70	171.16	170.4	C33
17+00			11.2	171.5	170.8	C42
P Rock	0.54	170.23	13.01	169.89	166.8	C42
+50			1.3	169.1	167.2	C59
18+00			4.6	165.8	163.7	C61
+50			8.9	161.5	160.2	C52
19+00	4.74	162.67	12.50	157.93	156.2	C52
+50			5.5	157.2	156.8	C42
20+00			9.0	154.7	154.3	C44
+233	E 41 27		9.7	153.0	152.8	C42
+50			9.8	152.9	152.4	C45
21+00			9.0	153.7	153.4	C43
20+324	Cross		152.9	148.6	148.6	C2

1/29/49
2/7/49

GRADES FOR WATERLINE - Hill St.

21+50		70	155.70	155.0	151.0	C47
22+00		41	158.6	157.2	152.2	C5E
+50	(22+53.4 Auto. AV)	2.4	160.3	158.8	154.8	C5E
	+87° TEE to Bonita Line			158.8		
23+00		3.2	159.5	158.8	154.8	C42
	+23+23 TEE (Morrison St.)			158.0		
+50		4.6	158.1	158.0	152.0	C41
18M	18M Nails in Pole 25' RT 23+57 ✓	4.77	157.90	156.9		
24+00		5.6	157.1	152.9	155.5	C42
+50		6.3	156.2	151.5	154.9	C49
25+00		6.9	155.8	150.3	154.3	C55
+50		7.6	155.1	149.1	153.1	C60
26+00		8.1	154.6	148.6	152.6	C60
+096	10'E & 42' rd	8.2	154.5	148.5	152.5	C60
RP	11.67	179.64	0.62	162.05		
RP	8.64	181.44	0.88	172.80		
CL RP		2.24	179.20			

29

GRADES FOR WATERLINE - QUAIL ST.

BM.	0.65	171.78		171.13	
0+00	= (5' N of E Hill St.)	+0.3	172.1	171.1	30
0+50		2.1	169.7	167.1	C2E
0+55	E.F.H. 16'E & PIPE			171.4	
0+55	S.F.H. 16'E	+1	171.3	171.4	F01
+65	Met. 35'E W (C)		170.7	170.1	37.13
			N 168.4	168.6	C3E
			S 168.3	168.6	C3E
1+00		4.9	166.9	164.6	C22
+50		7.4	164.4	165.8	30
+95	Met. 75'E (C)		N 162.9	161.8	26
			S 169.2	163.9	E07 S
2+00		10.1	161.7	163.7	25
+05	Met. 35'E (C)		N 161.6	159.3	C22
			S 161.5	162.8	F12 F12
3+00		12.50	159.28	160.7	30
+55	Water 75'E - 35'E W (C)		158.7	158.7	C26
4+00		3.8	157.1	158.0	C31
+05	Met. 75'E (C)		158.2	157.0	30
+50		6.1	154.8	158.4	E 34
+55	Met. 75'E (C)		155.2	151.2	20
5+00		8.3	152.6	155.5	For 20
+05	Met. 35'E W (C)		151.9	152.2	C38
+50		11.2	149.7	150.0	N 152.4
6+00		12.96	147.90	145.0	C37
5+00		2.2	147.3	147.2	C30
+05	Met. 75'E (C)		147.5	147.5	N 00° 30'
+50		4.7	142.8	144.3	C40
+65	Met. 35'E (C)		144.0	144.0	N 60° 50' E
6+00		6.3	143.2	142.2	C50
6+25	So Prop. F. St.	5.1	144.2	142.2	C7E
6+50			132.0		
5+89.60				142.7	
5+89.60	E.F.H.			142.7	
5+89.60	S.F.H.			142.7	C14
6+65	Met. (35'E W E)			141.0	N 23° 30'
7+00		6.0	143.5	140.0	C71
7+15	Met. 35'E W - 75'E (C)		136.4	140.4	N 140' W 027 N
+50		7.3	142.2	139.5	C67
7+65	Met. 35'E W - 75'E (C)			135.5	C19 N
			E 095	139.3	W 012 S
			E 30' N		
			C25		

2/7/49

GRADES FOR WATERLINE QUAIL ST.

8+00					136.6	
TP	0.88	139.99	8.8	140.7	134.6	c6L
+50			10.43	139.11	137.50	
				139.1	133.50	c5L
9+00			3.0	137.0	136.0	c5E
+40 ^{1/2}	Met 75 E @				132.5	c6E
+50			5.6	131.4	134.30	c6E
+90 ^{1/2}	Met 75 E @				130.30	c6L
10+00			7.5	132.2	132.5	c6E
					132.40	
+50			9.4	130.6	130.50	c6L
+90 ^{1/2}	Met 75 E @				128.7	c6L
11+00			10.8	129.2	128.70	c6L
+40 ^{1/2}	Met 75 E @				124.70	c6L
RP	2.71	130.22	12.48	127.51	126.7	c6L
+50					126.80	c6L
+90 ^{1/2}	Met 75 E @				124.80	c6L
12+00			4.3	125.9	124.50	c6L
					120.80	c5L
+50			7.0	123.2	123.0	c6L
+50 ^{1/2}	Met 75 E @		9.4	120.8	119.0	c6L
12+85 ³	NOR Prop. Line	2.90			122.5	c6L
	Met 54					c3L
CE DN.	Br Bolt NE Cor 4 ¹ st	2.90				
	Met 54			128.22		
8+15 ^{1/2}	Met 35 W @				138.5	c6E
8+65 ^{1/2}	" " "				137.1	c6E
9+15 ^{1/2}					135.5	c6E
9+65 ^{1/2}					133.7	c6E
10+15 ^{1/2}					131.8	c6E
10+65 ^{1/2}					129.9	c6E
11+15 ^{1/2}					128.0	c6E
11+65 ^{1/2}					126.1	c6E
12+15 ^{1/2}					124.3	c6E
12+65 ^{1/2}	Met 35 W @				122.2	c6E

2/7/49

GRADES FOR WATERLINE Hilltop

BM	11.21	180.31	169.10		
					166.1
7+33 ³	10'E E 39 ^{1/2} S	119	168.4	162.1	c6E
	TEE Hilltop @ 39 ^{1/2}				167.9
7+00		9.4	170.9	163.9	c7E
+50		6.2	174.1	167.4	c6E
					173.5
6+00		3.9	176.4	169.5	c6E
					174.7
+50		3.6	176.7	170.7	c6E
					174.8
5+00		4.2	176.1	170.8	c5E
	153 ⁷ E.P.L. Gridry				173.1
+50		5.2	175.1	169.1	c6E

Handwritten notes and calculations on the right page.

FEB. 17 1909

GRADES SET FOR WATER LINE 40th ST.

T&N	1.95	183.14		181.16	
0+00	= 5' Nor E Hilltop	1.7	181.2	177.0	c39
0+35	So Prop Line Hilltop			180.9	
0+405	E FH (5)	2.2	180.9	180.8	c31
0+50		3.2	179.9	176.7	c32
1+00		3.9	179.2	176.0	c32
+50		4.5	178.6	175.2	c32
2+00		5.3	177.8	174.1	c37
+50		7.7	175.4	172.0	c36
3+00		11.9	171.2	168.8	c39
P	1.25	171.74	12.65	170.49	168.7
+50			4.7	167.0	164.7
4+00			8.7	163.0	160.4
P				160.4	
+50	0.38	159.49	12.63	159.11	156.4
5+00			4.2	155.3	152.5
+50			7.0	152.5	148.6
5+95 ⁵⁰				148.9	
6+00			8.9	150.6	147.9
6+51 ⁰			10.5	149.0	147.8
6+51 ⁰	(5) FH		7.8	151.7	147.8

2/17/09

21

6+50		159.49			147.8
7+00	0.73	148.43	11.29	147.70	142.1
+50			2.5	145.9	142.2
8+00			4.2	144.2	138.4
+50			7.2	141.2	136.6
9+00			9.7	138.7	134.8
P				137.0	
+50	1.78	137.98	12.23	136.20	133.0
10+00			3.2	132.8	131.2
+50			4.1	133.9	129.6
11+00			4.8	133.2	128.3
+50			5.5	132.5	127.9
12+00			7.1	130.9	125.6
P	3.00	132.41		129.41	128.3
+50			2.8	129.6	124.3
12+85 ⁵⁰			5.3	127.1	123.3
OK BN.			4.23	128.18	128.22

Br. Pin NE Cor
Market & 40th
= 128.22
= 128.22 (c39)

W.O # 2-557-5

WATER LIND - FELDSPAR - Class To FANUC!

Mar. 3 1949

1308th
Parker
Ropers

B.M	8.91	33.96		25.05	Dr. Pin NW 1308th Feldspar
TP	7.84	40.90	0.90	33.06	33.1
0+00	7'E of EPL Cass		7.9	33.0	29.1 C39
+50			7.1	33.8	33.6 29.6 C42
1+00			6.4	34.5	34.1 30.1 C44
+50			5.9	35.0	34.6 30.6 C42
2+00			5.5	35.4	35.1 31.1 C43
+50			5.3	35.6	35.6 31.6 C40
3+00			4.9	36.0	36.2 32.2 C38
+50			4.4	36.5	36.7 32.7 C38
4+00			3.9	37.0	37.2 33.2 C38
+50			3.4	37.5	37.7 33.7 C38
5+00			3.2	37.7	38.2 34.2 C38
+50			2.8	38.1	38.7 34.7 C34
+775 F.H. ⑥ 285 So E St ⑦ 335 " " "			1.7	39.2	39.0 C02
TP					
6+00	9.55	48.28	2.17	38.73	39.4 35.4 C33
+50			8.8	39.4	40.0 36.0 C34
7+00			7.9	40.4	40.6 36.3 C33
+50			7.2	41.1	41.2 37.2 C39

	48.28				
8+00		6.4	41.9	41.8 37.8 C41	
+50		5.8	42.5	42.4 38.4 C41	
9+00		5.4	42.9	43.0 39.0 C39	
+50		4.9	43.4	43.6 39.6 C38	
10+00		4.4	43.9	44.2 40.2 C37	
+50		3.8	44.5	44.8 40.8 C37	
11+00		3.1	45.2	45.6 41.6 C36	
+50		2.0	46.3	46.2 42.2 C41	
+57' F.H. ⑥ 285 So E St ⑦ 335 " " "		1.8	46.5	46.3 C03	
12+00					
TP	7.30	54.55		47.0 43.0 C41	
+50			1.03	47.25 47.6 43.6 C43	
13+00			6.7	47.9	
+50			6.0	48.6	48.4 44.4 C42
+50			5.6	49.0	49.0 45.0 C40
14+00			5.1	49.5	49.2 45.2 C43
+50			4.8	49.8	49.8 45.3 C45
+90			4.7	49.9	49.5 45.5 C44
15+50			4.4	50.2	49.7 45.7 C45
16+00			4.0	50.6	49.8 45.8 C48
16+50			4.3	50.3	50.0 46.0 C43
CK 50 C48 @ PL.			4.22	50.33	50.00

Winchester St.
Contd from page 23

4/4/49
2/7/49

37

	289.01				281.5	
13+00		7.2	281.8	278.0	283.8	C28
+25		4.7	284.3	280.3	286.2	C40
					282.7	C41
IP +50	PCC. 9.13	297.78	2.2	286.8	287.8	C52
			0.36	288.65	284.3	C52
+75			8.5	289.3		
14+00			6.1	291.7	289.4	C58
					285.9	C58
+25			4.2	293.6	291.3	C58
					287.8	C58
+50			3.0	292.8	292.8	C55
					289.3	C55
+75			2.2	295.6	294.0	C49
					290.5	C49
15+00			2.0	295.8	294.8	C45
					291.3	C45
+25			1.9	295.9	295.2	C42
					291.7	C42
+37	PCC		1.9	295.9	295.2	C42
IP +105	12.20	297.82	2.02	295.76	294.3	C43
+68			2.7	295.1	290.8	C43
					293.3	C40
+93			4.0	293.8	289.8	C40
16+18			5.1	292.7	291.9	C43
					288.4	C43
+43			6.6	291.2	290.1	C46
					286.6	C46
+68			8.4	289.4	288.4	C45
					284.9	C45
+93	EC		10.5	287.3	287.5	C43
IP	F4.13	289.62	10.65	287.17	283.0	C07
	2.45				286.5	C07
17+43	B.0		5.7	283.9	282.0	C44
			2.8	287.44	279.5	C44
					287.05	

4/8/49

Beatty
Baker

WATER LINE Grades RAVEN ST

TBM	0.63	171.79	171.16	page 28
0+00	Pipe - 5' Nor & Hilltop			
0+40.5	L.F.H. (S) = SE So SPL Hilltop 2.8			
	2 1/2 E & Raven			
+50		4.8	169.0	169.5 FOS 167.3
1+00		8.9	167.0	165.8 C30 167.4 C30
+50		12.0	162.9	160.9 C30 159.9 C30
TD	1.27	160.04	13.02	159.4 156.4 C30 158.77 157.4
2+00		2.9	157.1	153.9 C30 156.1
+50		4.2	157.1	153.9 C30 155.0
3+00		5.3	154.7	151.5 C30 154.6 C30
+50		6.2	153.8	151.1 C30 154.2 C30
4+00		6.7	153.3	150.7 C30 153.8 C30
+50		7.9	152.7	150.3 C30 153.4 C30
5+00		7.8	152.2	149.9 C30 153.0 C30
+50		8.2	151.8	149.5 C30 152.4 C30
6+00		8.2	151.6	148.9 C30 152.7
TD	4.86	156.46	8.40	151.60 152.3 152.2 148.8 C30
+46.3	L.F.H. (S) SE So SPL FST 2.8			
	2 1/2 E & Raven			
+50			152.9	152.3 C30 152.3
+50				148.8 152.1
7+00		3.0	153.5	148.6 C49

34

RAVEN ST
156.26

7+50		4.6	151.9	151.7 148.2 C37 151.4
8+00		5.0	151.5	147.9 C36 151.0
+50		5.4	151.1	147.5 C36 150.7
9+00		5.6	150.9	147.2 C37 150.0
+50		6.1	150.4	146.5 C39 148.8
TD	0.53	147.58	7.7	148.8 145.3 C35 9.21 147.05 146.8
+50		0.5	147.1	143.3 C38 144.5
11+00		3.0	144.6	141.0 C36 141.7
+50		5.9	141.7	138.2 C35 139.0
12+00		8.3	139.3	135.5 C38 136.2
+50		11.0	136.6	132.7 C39 135.0
+81		12.5	135.1	131.5 C36
TD	1.98	137.05	12.51	135.07
OK BM			8.84	128.21

Or BM NE Cor
400 Market
= 128.24

MAR 16 1929
CASH
Baker
Rogers

35

Water Line Grades 41st St

	2.06	155.06		153.00	(20400)
TDN	0.31	155.01		152.70	(19450)
		155.03			
0+00	= E.P. 1/2	S' Nor	& Hilltop		
0+405	@ F.H. (S)	26 25'	E 85'	4.9	150.1 151.7 F16
+50				6.4	148.6 147.5 F16
1+00				9.6	145.4 143.3 F16
+50				11.3	143.7 140.0 C37
P 2+00	1.45	143.75	12.73	142.30	137.8 C43
+50				2.7	141.1 136.5 C46
3+00				3.6	140.2 135.0 C48
+50				5.4	138.4 133.5 C49
4+00				7.8	136.0 132.1 C50
+50				9.1	134.7 131.1 C50
5+00				10.2	133.6 130.2 C52
+50				10.9	132.9 129.7 C52
P 6+00	2.78	135.82	10.71	133.04	132.8
				3.4	132.4 129.3 C54
x 1+518	@ F.H. (S)	26 25'	E 85'	3.9	131.9 132.2 F03
				3.7	132.1 128.7 C54
					132.0
7+00				4.2	131.6 128.5 C51

					135.82		131.6
7+50						5.1	130.7 128.1 C58
							131.2 C58
8+00						5.7	130.1 127.7 C59
							130.8 C59
+50						5.9	129.9 127.3 C59
							130.4 C59
9+00						4.8	131.0 126.9 C41
							129.8
+50						4.4	131.4 126.3 C51
							129.1
P 10+00	1.78	132.22	5.38	130.44			125.6 C48
							128.2
+50						2.6	129.6 124.7 C49
							127.3
11+00						4.5	127.7 123.8 C39
							126.4
+50						6.1	126.1 122.9 C32
							125.4
12+00						7.2	125.0 121.9 C31
							124.6
+50						7.8	124.4 121.1 C33
							124.1
F 121						8.5	123.7 120.6 C31
F 865							120.6 C31
OR PNI						6.75	125.27 MARKET & 21
							125.39

W.O. # 2-509-5

4/14/48

(Bancroft
32nd St
BP Adams
W. Mt View Dr)

36

WATER LINE IN ALLEY - Nor of Madison

DN	3.57	392.66	389.09	
H	4.08	390.11	6.63	386.03
	2.34	389.45	5.00	385.11
0+00 (for WAT. VAL Box)		3.91	385.54	284.97 C037
+50		4.5	385.0	4 Gnd 384.5 381.0 C40
1+00		4.6	384.9	384.8 C41 380.5 C42 380.8
+50		4.8	384.7	384.1 380.6 C41
2+00		4.5	385.0	384.0 380.5 C45
+50		4.8	384.7	383.9 380.4 C43
3+00		4.9	384.6	383.8 380.3 C43
+50		5.3	384.2	383.6 380.1 C41

		389.45		
4+00		5.3	384.2	383.5 380.0 C42
5+00		5.5	384.0	383.4
6+00	4.96	388.92	5.49	383.96 379.9 C41
7+00		4.9	384.0	383.2 379.7 C43
8+00		4.7	384.2	383.1 379.6 C46
9+00		4.7	384.2	383.0 379.5 C47
10+00		6.6	382.3	382.5 379.0 C33
TEN		6.50	382.42	SE. Cor Corb Rest SW ALLEY MADISON

MAR. 17 1929

GRADES FOR METER BOXES 39th ST (TRANSFERS)

6+83 - F.N. 6+47 77	(25 th E & ST.)	1.0	163.8	164.0	F02
5+70 62	"	6.5	159.3	158.6	C02
5+08 44	"	10.7	154.1	154.9	F08
4+64 95	"	H: 164.8 13.2	151.5	152.9	F14
3+69 32	"	6.5	149.3	149.9	F08
3+35 20	"	7.1	148.7	148.5	C02
3+15 49	"	7.2	148.5	147.9	C06
2+66 1042 1+613	"	H: 155.79 8.3	147.5	146.7	C08
5+03 455	(25 th W & ST.)				
5+57.5 49.5	"	6.1	158.7	158.3	C04
5+08 75	"	H: 164.8 9.7	155.1	155.3	F02
4+33 87	"	3.9	151.9	151.9	C00
3+46 50	"	6.0	149.8	149.1	C07
2+96 54	"	6.4	149.4	147.9	C15
2+42 45	"	7.5	148.3	146.5	C18
1+97 352 1+613	"	H: 155.8 8.4	147.2	145.5	C19
		12.99	164.84	3.94	151.85
		3.19	155.79		152.60

3/17/29 37

GRADES FOR METER BOXES (QUAIL ST. TRANSFERS)

0+60	25 th E & ST.	1.04	172.34	171.30	F09
4+22	"		161.5 9.0	152.8	152.0 C08
4+48	"		161.8 10.7	151.1	150.5 C06
0+88	25 th W & ST.		172.3 5.2	167.1	168.0 F09
1+54	"		172.3 8.0	164.3	164.5 F02
2+88	"		161.8 4.0	157.8	157.5 C13
3+47	"		161.8 7.1	154.7	154.4 C03
4+46	"		161.8 11.6	150.2	149.1 C11
4+93	"		150.0 2.3	147.7	147.0 C07
6+93.4	25 th E & ST.		150.0 6.7	143.3	140.8 C25
8+10	"		150.0 8.8	141.2	136.5 C22
9+07	"		139.6 2.1	137.5	135.7 C9
10+45	"		139.6 9.3	130.3	120.7 F04

MAR. 21, 1969

W.O. 2-581-5

GRADES FOR WATER LINE SAPPHIRE

BAYARD

DAMES

7' off HUB NW

DAMES & SAPPHIRE

B.M.	3.46	132.36	128.90	127.8	C3
			128.1	127.8	C3
10+84 ⁶⁵			128.5	124.3	C4
+50			127.7	123.3	C4
9+99 ⁶⁵ PL			127.2	122.9	C4
+50			127.2	122.5	C4
9+00			127.2	122.1	C5
+50			127.3	121.7	C5
8+00			127.0	121.2	C5
+50			126.2	120.9	C5
7+00			124.6	120.5	C4
+50			122.3	120.1	C3
6+00	4.35	127.24	122.89	119.7	C3
+50			122.8	119.3	C3
5+00 ⁵ PL CASS			122.2	118.9	C3
+20 ⁵ PL CASS			122.0	118.8	C3
4+00			121.5	118.5	C3
+50			120.2	117.0	C3

38

			127.24			119.0
2+00				8.1	119.1	115.5 C36
+50				9.4	117.8	117.6 C37
2+00				10.4	116.8	116.2 C4
+50				11.5	115.7	114.8 C4
1+00				12.6	114.6	113.3 C4
(Reod)	4.76	120.23		11.77	115.47	109.8 C4
+45				7.2	112.0	111.2 C15
+40 PL BAYARD				7.6	112.6	111.4 C47
0+00 PL BAYARD				7.9	112.3	110.5 C53
TR	8.10	126.00		2.37	117.90	
OR Curb SE CASS				3.57	122.43	= 122.40

MAR 26, 1949

GRADES FOR WATERLINE MORRISON { HILLTOP MARKET

TBM	2.28	160.18	157.90	NAIL IN FWD 500 Pp 29
0+00	= TEE 5' Nbr & Hilltop			Low Curb W. side ST Grade
+40.5	⑤ FH = 21 ⁷⁵ E & ST (30' ST)			157.7 F02
+50		3.6	156.6	157.1 153.6 C30
1+00		6.3	153.9	153.9 150.4 C33
+50		9.4	150.8	150.7 147.2 C36
P 2+00	1.16	148.99	12.35	147.5 144.0 C38
+50		4.1	144.9	144.4 140.9 C40
3+00		6.6	142.4	141.8 138.3 C41
+50		8.5	140.5	139.6 136.1 C45
4+00		10.6	138.4	138.0 134.5 C39
P +50	1.30	138.30	11.99	136.2 132.7 C43
5+00		2.5	135.8	134.5 131.0 C48
+50		4.3	134.0	132.6 129.1 C47
6+00		5.5	132.8	130.8 127.3 C55
+50	⑤ FH = 21 ⁷⁵ E & ST			130.5 C12
		6.7	131.6	130.0 126.5 C52
7+00		8.1	130.2	128.9 125.4 C48
+50		10.1	128.2	127.7 124.2 C40

39

				138.30
P 8+00	2.51	129.73	11.08	127.22
+50		3.3	126.4	126.5 123.0 C42
9+00		4.1	125.6	124.2 120.7 C49
+50		4.7	125.0	123.4 119.9 C51
10+00		4.9	124.8	122.8 119.3 C55
+50		5.3	124.4	122.3 118.8 C56
11+00		4.8	124.9	121.7 118.2 C67
+50		5.2	124.5	121.2 117.7 C62
12+00		6.7	123.0	120.7 117.2 C53
+50		8.4	121.3	120.2 116.7 C46
+86 ⁶	Connect to G.V.			Bottom wire 115.9 116.1
P	6.52	128.86	7.39	122.34
CL BIN		3.41	125.45	125.39

B.P. NOT 41⁰⁰
& MARKET

MAR 25 1949

GRADES FOR WATER LINE 42nd ST
 H. 11th TO
 MARKET
 GRADES USED
 LOW CURB
 WEST SIDE
 3.50

Station	Grade	163.94	157.84	152.2	Grade
0+40.5	2.9	152.9	152.2	0.05	
+50	3.1	152.7	148.7	4.0	
1+00	3.5	152.3	148.3	4.0	
+50	4.4	151.4	147.9	3.5	
2+00	4.8	151.0	147.5	3.5	
+50	5.0	150.8	147.1	3.7	
3+00	5.1	150.7	146.7	4.0	
+50	5.7	150.1	146.3	3.8	
4+00	6.2	149.6	145.6	4.0	
+50	7.9	147.9	144.0	3.9	
5+00	10.5	145.3	141.4	3.9	
+50	3.7	142.7	138.0	4.7	
6+00	6.7	139.7	136.7	3.0	
+51.7	9.0	137.4	137.1	0.03	
	9.3	137.1	136.6	0.5	
7+00	11.7	134.7	132.1	2.6	
+50	2.2	132.8	128.7	4.1	
8+00	3.6	131.4	127.4	4.0	

20

134.97

Station	Grade	130.1	126.6	Grade
8+50	4.4	130.6	126.6	4.0
9+00	4.9	130.1	126.1	4.0
+50	5.9	129.1	125.7	3.4
10+00	6.0	129.0	125.3	3.7
+50	6.2	128.8	125.0	3.8
11+00	6.5	128.5	124.8	3.7
+50	6.7	128.3	124.6	3.7
12+00	6.9	128.1	124.5	3.6
+50	6.7	128.3	125.2	3.1
+87.2	Connect to G.V.			
CK BM	6.4	128.83	128.76	

 B.P. SW. Cor
 MARKET
 42nd
 = 128.76

Mar. 28, 1949

BEATTY
BAKER
ROGERS

41

GRADES FOR METER BOXES
(SET @ 252 E & W E ST)10th ST

S.F.H.

	2.10	183.00	180.9		
0+53 E # 1			2.2	180.8	180.5 C0 ³
0+65 W # 23			2.6	180.4	179.9 C0 ⁵
1+10 E # 3-4			3.3	179.7	179.9 F0 ²
1+43 E # 5+6			4.0	179.0	179.5 F0 ⁵
1+675 W # 39			4.3	178.7	178.6 C0 ¹
1+96 E # 7			4.6	178.4	178.7 F0 ²
2+525 W # 36			7.1	175.9	175.6 C0 ³
2+89 W # 32			10.1	172.9	173.4 F0 ⁵
3+07 E # 11			10.7	172.3	172.4 F0 ¹
3+30 E # 12	0.96	171.42	12.50	170.46	170.4 C0 ¹
3+49 W # 32			2.8	168.6	168.6 C0 ⁸
4+05 W # 30			7.3	164.1	164.2 F0 ¹
4+14 E # 16			7.8	163.6	163.7 F0 ¹
4+55 E # 17			11.3	160.1	160.3 F0 ²
4+585 W # 28			12.0	159.4	160.0 F0 ⁶
5+05 E # 19	0.34	158.70	13.06	158.36	156.2 C0 ²
5+155 W # 25			4.3	154.2	155.2 F0 ⁸
5+49 E # 21			5.0	153.7	152.7 F0 ²
5+655 W # 23			7.8	150.9	150.9 C0 ²
6+755 W # 51			12.0	146.7	146.9 F0 ²
6+80 E # 2			8.1	150.6	147.0 C0 ²
7+18 W # 50		146.96	1.7	145.3	145.2 C0 ¹
7+21 E # 4			9.5	149.2	145.6 C0 ⁶
7+57 W # 48		146.96	2.9	144.1	143.9 C0 ²
7+61 E # 5			10.3	148.4	144.0 C0 ⁴
8+155 E # 18	0.58	146.96	12.2	146.08	142.0 C0 ²
8+155 W # 16			4.8	142.2	142.7 F0 ⁵

8+655 W # 44	146.96	6.8	140.2	139.9 C0 ³
8+76 E # 10		4.9	142.1	139.8 C0 ²
9+155 E # 11		7.3	139.7	138.3 C0 ⁴
9+155 W # 42		11.3	135.7	138.1 F0 ²
9+54 E # 13		9.8	137.2	136.9 C0 ³
9+655 W # 40		13.09	133.87	136.3 F0 ⁴
10+255 W # 37	138.21	5.7	132.5	134.1 F0 ⁶
10+255 E # 16		2.4	135.8	134.4 C0 ⁴
11+00 E # 19		3.3	134.9	132.3 C0 ⁶
11+03 W # 34		7.2	131.0	132.0 F0 ²
11+47 E # 20+21		4.2	136.0	131.0 C0 ²
11+655 W # 32		6.1	132.1	130.1 C0 ²
11+81 E # 22		6.0	132.2	130.4 C0 ⁸
12+155 W # 30		7.6	130.6	128.6 C0 ⁸
12+655 W # 28		8.6	129.6	127.9 C0 ⁷
12+67 E # 25+26		7.0	131.2	128.4 C0 ⁸
CL BN	10.05	128.16	128.24	

April 5, 1949
Same Party

47

GRADES FOR WATER LINE - OLIVER

Ingram to
Jewell
C.T. 7' of SE
Cor. Oliver
at Lament

B.M.	6.82	47.16		20.34	
11)	7.08	53.66	0.58	26.58	
11)	1.84	52.72	0.78	52.88	
			4.62	50.11	Top 6" C.I.
			.58		
			5.20	49.52	Bot. Pipe
			2.61	52.11	Top Curb
5+35.6	(MAIN IS 5' 30" & ST.) (@ 15' 14" 30" & ST.)		2.6	52.1	49.5 C26
5+00			2.7	51.0	48.9 C27
4+50			4.6	50.1	48.1 C28
4+00			5.4	49.3	47.3 C29
+50			6.0	48.7	46.5 C28
3+00			6.0	48.7	45.7 C29
+50			6.1	48.6	45.6 C29
2+00			6.6	48.1	45.4 C30
+50			6.2	48.9	45.2 C27
1+00			5.9	48.8	45.0 C28
+61.5	(5) F.H.		5.2	49.5	48.5 C10
+50			6.1	48.6	44.9 C22
0+00			6.8	47.9	44.70 C29
			9.44		Top 6" C.I.
			.58		
			10.02	44.70	Bot. Pipe

APRIL 6 1949

GRADES FOR WATERLINE Hornblend

GRESHAM JEWEL

RM	1.10	61.13		60.03				
RP	5.81	59.47	7.47	53.66				
RP	6.83	65.98	0.32	59.15				
RP	8.62	68.99	5.63	60.35				
17+26	Cont. To Main Transite Tee 5' from (A)		8.5	60.5				
+74.6								
+50	PL (W) Jewell		9.0	60.0				
			8.7	60.3				
16+00	PL (W) Jewell		8.1	60.9				
+50			7.4	61.6				
15+00			6.8	62.2				
+50			5.8	63.2				
14+00			4.9	64.1				
+50			4.7	64.3				
13+00			5.6	63.4				
+50			7.0	62.0				
RP 12+00	5.61	66.06	8.54	60.45				
11+74.5 @ GV			5.9	60.2				
10+74.5 @ GV			6.1	60.0				
+50			4.9	61.2				
10+00			2.5	61.6				
+50			4.7	61.4				

						66.06		
9+00						4.9	61.2	60.6
+50						5.1	61.0	60.8
8+00						5.2	60.9	61.0
+50						5.0	61.1	61.2
RP 7+00	6.12	67.52	4.66	61.40				
+50			5.6	61.9				
6+00						4.8	62.7	61.7
5+80	S F.H. 27'50 E ST					4.0	63.5	61.8
5+60						4.1	63.4	61.9
4+94.9	PL (W) Haines					4.3	63.2	62.1
+50						4.8	62.7	61.6
4+00						5.9	61.6	60.9
+50						7.6	59.9	59.0
3+00						9.6	57.9	57.0
RP +50	1.91	57.60	11.83	55.69				
2+00						4.1	53.5	52.9
+50						6.0	51.6	49.8
1+00						7.4	50.2	49.8
+50						8.3	49.3	48.7
0+00	= S.E. Easterly PL. GRESHAM.					9.3	48.3	47.7

43

April 6 1929

GRADES FOR Meter Boxes E. Side 4.157

TD	0.36	150.46		150.10	
	= 30' 50" South Line Hilltop				
0+65	(D) = 255 E 6 ST.	2.1	148.4	149.7	F13
1+20		2.9	145.6	145.8	F02
1+73		6.7	143.8	143.1	C02
2+20		7.9	142.6	141.6	C10
2+68		9.1	141.4	140.1	C13
P					
3+22	0.98	140.91	10.53	139.93	138.3 C16
3+72			2.7	138.2	136.9 C12
4+22			5.0	135.9	135.5 C04
4+73			6.4	134.5	132.2 C01
5+25			7.6	133.3	132.5 F02
5+59			7.8	133.1	132.0 C01
P					
6+82	4.73	136.45	9.19	131.72	131.5 C02
7+46.5			6.0	130.5	131.0 F05
7+96			6.4	130.1	130.7 F04
8+46			6.8	129.7	130.2 F07
9+01			5.8	130.7	130.1 C06
9+50			5.6	130.9	129.6 C13

44

	136.45				
10+02		6.7	129.8	129.1	C07
10+49.5		7.3	129.2	128.3	C09
10+92		8.4	128.1	127.5	C06
11+125		8.9	127.6	127.1	C05
12+55		11.5	125.0	124.5	C05
CK BM		10.94	125.51	125.39	

APRIL 13 1929

GRADES FOR WATER LINE LA PALMA GRESHAM

B.M.	4.97	26.14		21.17		
5 th P			2.03	24.11		
+40±	Conn. to G.V.					
5+00	W. Pl. Gresham		6.3	19.8	18.0	14.5 C52
P	+50	0.25	17.57	8.82	17.32	14.90 C59 11.20
	4+00		4.3	13.3	11.60	08.30 C50
	+50		6.7	10.9	9.20	05.70 C53
	3+00		9.2	08.4	7.40	03.90 C45
	+45		10.9	06.7	6.70	03.20 C45
	2+00		11.3	06.3	6.40	02.90 C44
	+50		11.4	06.2	6.20	02.7 C35
	1+00		10.8	06.8	6.00	02.50 C43
	+50		10.4	07.2	5.80	02.30 C49
	0+00	CONNECT TO G.V. E. PL. FANUEL		10.9	06.7	5.60 02.10 C44
CK Curb Fanuel NE Cr		10.78	06.79			= 06.60

FANUEL
B.P. N.W. Cor
Pac. Beach Dr
GRESHAM
Top F.H.
GRESHAM
La Palma

APRIL 13 1929

45

GRADES FOR WATER LINE TOYNE, MARKET ST North

B.M.	9.23	137.99		128.76		
(6+25 ⁹⁵) ?						
6+25 ³	CONNECT TO G.V.					
	6+00		5.6	132.4	132.2	128.7 C27
	+50		3.4	134.6	134.0	130.5 C41
	5+00		1.7	136.3	135.2	131.7 C46
P	+50	3.80	141.72	00.7	137.92	135.6 132.1 C58
	4+00		2.9	138.8	135.8	132.3 C65
	+50		3.2	138.5	135.9	132.4 C61
	3+00		4.6	137.1	136.1	132.6 C45
	+50		5.8	135.9	136.3	132.8 C31
	2+00		5.8	135.9	136.5	132.0 C29
	+50		5.4	136.3	136.7	133.2 C32
	1+00		5.3	136.4	136.9	133.4 C32
	+50		4.2	137.5	137.2	133.7 C38
P	0+00	6.30	145.60	2.42	139.30	138.4 130.9 C44
	0+00	E. F.H. 21 ³ E & ST		2.32	139.40	138.8 C06
P		6.71	142.60	9.91	135.69	

B.P. SW Cor
MARKET & 4th
W. Side Low Curb
131.4
127.9

Cont'd
next
page

4-13-29

GRADES FOR WATER LINE DENBY ST MARKET NORTH.

(From preceding page)
142.40

Station	Dist.	Grade	137.5	F21
0+20 (S) FH			135.4	(E side low cut) C30
0+00	6.8		135.6	134.0 C30
+50	6.1		136.3	137.9 C30 133.8 C25
1+00	5.2		127.2	137.0 C27 133.5 C27
+50	6.0		136.4	136.8 C21 133.3 C21
2+00	6.7		135.7	136.6 C20 132.1 C20
+50	6.2		136.2	136.4 C23 132.9 C23
3+00	5.0		137.4	136.2 C21 132.7 C21
+50	4.5		137.9	135.9 C25 132.4 C25
4+00	4.9		138.1	135.7 C29 132.2 C29
W +50	0.96	138.29	137.33	135.2 C25 131.7 C25
5+00	2.8		135.5	133.1 C29 129.6 C29
+50	6.2		132.1	129.1 C25 125.6 C25
6+00	11.5		126.8	125.1 C23 121.6 C23
+20	CONN TO G.V.			124.2 C25 120.7 C25
P	1.29	137.71	2.07	136.22
CK B.M.	9.00		128.71	= 129.76

APRIL 14, 1929

LEONARD
PAYNE
CARVER.

26

GRADES FOR WATER LINE, PROMONTORY ST, MOUNTAIN TO LAFLORA.

L.O.P.C.T. 2

B.M.	+6.85	32.79		26.44	INVERT & LAFLORA.
			DITCH GRADE		HIG. ELEV. CUT.
7+05.5	FIRE PUG.	27.7	-7.0	25.8	F 1.9
7+00		22.4	-6.8	26.0	C 2.6
6+50		23.4	-6.4	26.4	C 2.4
6+00		25.0	-6.0	26.8	C 2.2
5+50		24.0	-5.6	27.2	C 2.0
5+00		25.6	-4.9	27.9	C 2.1
4+50		24.6	-4.7	28.1	C 2.7
4+00		24.2	-3.8	29.0	C 2.0
3+50	T.P. ON HIGH	25.2	-2.82	29.97	C 2.4
	+9.48	39.45			
3+00		28.2	-8.1	31.3	C 3.1
2+50		28.8	-6.8	32.6	C 3.8
2+00		29.4	-5.7	33.7	C 4.3
1+50		30.0	-4.8	34.6	C 4.6
1+00		31.3	-4.2	35.2	C 3.9
0+50	END OF EXT.	32.6	-2.9	36.5	C 3.9

CONT'D NEXT PAGE:

		89.45		
0+00	INVERT OF EXST. VALVE ON MOORLAND	-5.61	83.84	
T.P.		-5.47	83.98	
	+0.14	84.12		
CHECK	LAPLAYA			
R.M.	LD. P.T. $\frac{1}{2}$ INGRAN AT ON NEW PNT. INGRAN & LAPLAYA	-7.70	26.42 = 26.44	
	APPROX CENTER INT'N.	-7.80		
	CALLED X 7' N. OF $\frac{1}{2}$ LAPLAYA	-7.87		

NOTE: LD.P.T. USED AS R.M. IS IN CENTER OF INGRAN ST. ABOUT $1\frac{1}{2}$ ' S. OF S. LINE LAPLAYA AVE.

NOTE: FIRE PLUG SET 9 FT. SOUTH OF SOUTH LINE OF LAPLAYA AVE. MIDWAY BETWEEN PROP. LINE AND EXISTING PRIVATE CONCRETE DRIVE, AND 22' FROM $\frac{1}{2}$ OF PROMONTORY.

NOTE: GRADE LINE OF STREET WAS DISREGARDED IN ORDER TO PROVIDE SUFFICIENT COVER OVER TRANSITE PIPE.

4-15-49
LEONARD
PAYNE
BARVER

47.

GRADES FOR 6" WATER LINE ON YOSEMITE ST. LAPLAYA TO MOORLAND.

R.M.	+0.95	80.89	26.44	LD. P.T. $\frac{1}{2}$ INGRAN ST. AT LAPLAYA
0+00	TOP OF EXST. 8" PIPE	-8.52	21.87	LAPLAYA ST. SPIKE IN ROOT OF 4" TREE SWCOR. YOSEMITE & LAPLAYA
T.B.M.		-4.15	26.24	
	+6.49	32.73		
		GRADE.		
0+00		21.1	21.1	CENTER EXST. 8" TRANSITE PIPE ON LAPLAYA.

0+25 S. PROP. LINE OF LAPLAYA ST.

0+80	FIRE PLUG	25.0	-8.1	24.6	F 0.4
0+50		26.6	-7.8	24.9	C 3.3
1+00		21.9	-6.8	25.9	C 4.0
1+50		22.2	-6.0	26.7	C 4.5
2+00		22.4	-5.4	27.3	C 4.9
2+50		22.7	-5.2	27.5	C 4.8
3+00		23.0	-5.1	27.6	C 4.6
3+50		23.2	-5.0	27.7	C 4.5
4+00		23.5	-5.2	27.5	C 4.0
4+50		23.8	-5.9	27.4	C 3.6
T.P.	+4.74	32.12	-5.35	27.38	ON H.W.

GRADES FOR W.L. ON YOSEMITE ST., CONT'D.

	32.12			
	GRADE		HUR ELEV.	
5+00	24.0	-4.7	27.4	23.4
5+50	24.5	-4.8	27.3	23.0
5+85.0	TOP CURB, W. SIDE OF ST.	-4.08		28.04
"	TOP CURB, E. SIDE OF ST.	-5.06		28.06
6+00	24.5	-4.8	27.3	22.8
6+50	24.7	-4.2	27.9	23.2
6+79.9	TOP OF CONC. PNT. ON ♀	-5.62		28.50
7+00	ON PNT.	24.9	-5.9	28.3
7+34	END ON PNT.	-4.2	27.9	
T.P.	+4.01	22.08	-4.05	28.07
CHECK				NAIL IN
T.B.M.		-5.84	26.24	TREE
T.P.	+5.55	30.48	-7.15	24.93
CHECK				
B.M.		-4.04	26.44 = 26.44	

NOTE: EXISTING CURB AT 5+85 DOES NOT MEET

ESTABLISHED GRADE AT THIS POINT BY 1 FT. ON
E. SIDE AND 0.5 FT. ON W. SIDE.

April 26 1969
 Beatty, Baker, Rogers

GRADES FOR WATERLINE LANTANA DRIVE Euclid
 Dwaight

B.M.	6.73	347.19		340.46	341.10	337.7
0+00	E. Prop. Line Euclid		Coord. to G.V.			
+50		5.84	341.4	341.0	337.8	
1+00		5.78		341.0	338.0	
+50		5.65		341.0	338.0	
2+00		5.56		341.0	338.0	
+50		5.65		341.0	338.0	
3+00		5.77		340.7	337.7	
+50		5.96		340.5	337.5	
4+00	3.79	344.88	6.10	341.09	340.3	337.3
+50		3.88		340.3	337.3	
5+00		4.04		340.2	336.7	
+50		4.23		340.0	336.5	
6+00		4.35		339.9	336.4	
+50		4.55		339.8	336.3	
+79.82 (FH. @ Carb.)						
7+00		4.73		339.7	336.2	
+50		4.87		339.5	336.0	
8+00		5.25		339.2	335.7	

Elevation of
 North curb is lower than South curb
 below gutter
 3.5' below gutter
 all marked
 South curb 11.0'

				344.88		
9+50		5.83			335.9	335.4
9+00		6.72			335.5	335.0
+04.95	BC	E-10'S & 5T		6.40	338.50C	338.50C
+50		6.57		338.3	338.3C	338.3C
10+00	1.67	339.57	6.98	337.90	337.7C	337.7C
+50					336.6C	336.6C
+71.55	EC	E-10'E & 5T		2.63	337.0	337.0
11+00				3.30	336.3	335.8C
+50				4.26	335.3	335.4C
+50				6.60	333.0	333.2
12+00				7.89	331.7	330.4
+50				10.21	329.4	327.9
13+00	6.94	333.90	12.51	327.06	324.5	324.5
+50				9.59	324.3	325.2
+21.2	6" TCE			11.03	322.9	323.9
+33.8	2" B.O.			11.56	322.3	323.7
13+21.20	LANTANA DR					
5+69.90	Dwaight St			11.03	322.9	323.9
	DWIGHT ST				320.4	320.4
5+26.5				8.43	325.5	324.1
+17.5	3" FH.				326.91	326.6
5+00				5.03	328.9	328.2
+50				2.71	331.2	328.9
4+00				1.92	332.0	331.2
+50				1.28	332.6	332.7

328.87 330.57
 1.8 3.76
 330.67 336.71
 9+04.95
 20.5
 6+99.85

4-26-49

April 25 1949

GRADES FOR WATER LINE DWIGHT ST

LANTANA
Euclid

GRADES FOR Meter Pipes Morrison St

B.P. MARKET
ST. 21ST

P 3+00	S.0"	337.30	1.6V	332.28	331.6 328.1	C42
+51	(EC)				331.8 328.3	C36
+50			5.38	331.9	332.0 328.5	C35
2+00			5.25	332.0	332.2 328.7	C31
+50			5.50	331.8	332.4 328.9	C35
+09	(B.C)				332.5 329.0	C35
1+00			5.80	332.0	332.70 329.20	
+50			4.81	332.5		

0+00 E. Prop Line Euclid (Conn. to G.V.)

END of Pav't Lantana
47.86 from E Dwight
Lantana

321.4 C30
318.4 C25

326.9
5.75
321.15

BM	0.55	125.94		125.39		
12+17 W			3.4	122.5	120.5	C20
11+93 E			2.5	123.4	121.3	C21
11+59 ⁵ E			1.7	124.2	121.7	C25
11+57 W			2.4	123.5	121.2	C22
11+05 E			0.9	125.0	122.3	C27
10+97 W			2.1	123.8	121.9	C19
10+39 E			1.6	124.3	123.1	C12
10+24 W			1.3	124.6	122.9	C22
TP	9.56	134.73	0.77	125.17		
9+92 W			10.1	124.6	123.2	C14
9+88 E			9.9	124.8	123.7	C11
9+32 W			9.7	125.0	124.0	C12
9+48 E			9.8	124.9	124.2	C07
8+85 W			9.0	125.7	124.7	C10
8+66 E			9.0	125.7	125.5	C2
8+412 E			8.5	126.2	126.0	C02
8+35 W			8.1	126.6	125.7	C02
7+82 W			6.6	128.1	126.9	C12
7+76 E			6.8	127.9	127.6	C02
7+43 E			6.0	128.7	128.3	C04
7+32 W			5.6	129.1	128.0	C11
7+05 W			5.0	129.7	128.8	C09
6+83 E			4.0	130.7	129.8	C02
6+49 W			3.3	131.4	130.0	C14
5+73 W			1.2	133.5	131.8	C12
5+62 E			1.0	133.7	132.8	C02
5+42 E			0.2	134.5	133.6	C09
TP	12.21	146.97	+0.03	134.76		
5+12 W			11.7	135.3	134.0	C12
4+78 ⁵ E			10.3	136.7	135.8	C02
4+58 W			10.4	136.6	135.9	C07
4+30 E			9.1	137.9	137.6	C02
3+96 W			8.2	138.8	138.2	C06
3+76 E			7.4	139.6	139.7	F01

4/25/49

Meter Box Grades Morrison St. Cont'd
14697

3+46 W		6.7	140.3	139.9	C ⁴
3+15 E		5.1	141.9	142.1	F ⁰²
2+97 W		4.7	142.3	142.0	C ⁰³
2+65 E		2.7	144.3	144.0	C ⁰³
2+48 W		2.2	144.8	144.6	C ⁰²
P	13.09	159.51	0.55	146.42	
2+11 E		12.3	147.2	147.1	C ⁰¹
1+97 W		12.0	147.5	147.7	F ⁰²
1+65 E		9.5	150.0	150.0	C ⁰²
1+48 W		8.9	150.6	150.9	F ⁰²
1+02 E		5.7	153.8	153.8	C ⁰²
0+96 W		5.3	154.2	154.3	F ⁰¹
0+68 E		3.8	155.7	156.2	F ⁰⁵
0+66 W		3.7	155.8	156.2	F ⁰⁹
0+00	♀ Main on Hilltop 5' North of E, 35' Nor. of So. P.C.				
CRTPM		1.68	157.83	157.84	(P. 40)

May 2 1949

51.

METER BOX GRADES - 42nd St.

P	2.14	155.44		152.30	① 1400
0+64 W			1.9	153.5	152.1 C ¹⁴
1+10 E	New Ser.	5/12/49			152.0
1+28 W			2.9	152.5	151.6 C ⁰⁹
1+59 E			4.1	151.3	151.6 F ⁰³
1+90 W			4.0	151.4	151.1 C ⁰²
2+15 E			4.6	150.8	151.3 F ⁰⁴
2+42 E			4.7	150.7	151.1 F ⁰⁴
2+70 W			5.1	150.3	150.4 F ⁰¹
3+05 E			5.0	150.4	150.6 F ⁰²
3+45 W			5.4	150.0	149.9 C ⁰¹
4+05 W			6.1	149.3	149.0 C ⁰²
4+08 E			5.9	149.5	149.0 C ⁰¹
4+51 E			7.6	147.8	148.0 F ⁰²
4+55 W			8.5	146.9	147.2 F ⁰⁹
5+14 W			12.0	143.4	144.1 F ⁰⁷
P	1.27	143.75		12.96	142.48
5+46 W			1.9	141.9	141.9 C ⁰²
5+56 E			1.0	142.8	141.8 C ¹⁰
5+63 W			2.7	141.1	140.7 C ⁰⁷

5-2-49

METER BOX GRADES 42nd ST

	143.75				
7+40 E		10.4	133.4	133.1	C03
7+40 W	1.84	134.84	10.75	133.0	
7+61 W		2.7	132.10	132.0	C01
7+92 E		3.0	131.8	131.6	C03
8+13 W		3.2	131.6	130.6	C12
8+38 E		3.7	131.1	130.8	C03
8+92 E		4.3	130.5	130.2	C03
9+13 W		6.2	128.6	129.6	F12
9+43 E		5.0	129.8	129.8	C00
9+66 W		6.8	128.0	129.0	F12
9+89 E		5.4	129.4	129.3	C01
10+17 W		7.0	127.8	128.7	F09
10+57 W	5/12/49		127.7	128.5	F08
10+40 E		5.4	129.4	129.1	C03
10+87 W		7.4	127.4	128.2	F12
10+95 E		5.4	129.4	128.5	C06
11+17 W		7.8	127.0	128.2	F12
11+57 E		6.0	128.8	129.6	C03
11+58 W		7.5	127.3	128.1	F08
11+87 E	These should have been at Sta. 12+16	6.4	128.4	128.5	F01
11+87 W		8.8	126.0	129.0	F20
OK 10+50		6.2	128.82	128.80	

May 12, 1949
Dime Party

Meter Box Grades TOYNE ST

	9.27	138.03			
13M			128.76	5W Cor 42 nd & Market	
TP	5.70	143.16	0.57	137.46	
0+30 W			5.0	138.2	137.6 C06
0+40 E			4.8	138.4	137.9 C05
0+62 E	? Should be (distance) of 66		5.7	137.5	137.5 C02
0+76 W			6.6	136.6	137.0 F04
1+16 E	? Unnecessary?		6.7	136.5	137.3 F08
1+29 W			7.4	135.8	136.8 F12
1+80 E			6.7	136.5	137.1 F06
1+80 W			8.0	135.2	136.6 F14
2+29 E			6.9	136.3	136.9 F06
2+31 W			8.7	134.5	136.4 F12
2+78 W			8.3	134.9	136.2 F13
2+79 E			6.0	137.2	136.7 C05
3+30 W			5.7	137.5	136.9 C15
3+36 E			4.4	138.8	136.5 C23
3+81 W			5.7	137.5	135.8 C12
3+83 E			3.6	139.6	136.3 C33
4+33 E			4.5	138.7	136.1 C25
4+35 W			5.8	137.4	135.6 C18
4+90 E			6.4	136.8	135.7 C11
5+19 W			7.2	136.0	134.8 C13
5+51 E			9.1	134.1	134.1 C02
5+51 W			9.4	133.8	133.8 C02
OK 5+50 @ MAIN			8.55	134.61	= 134.62

WATER LINE GRADES
ROSECROFT. SILVERGATE TO CATALINA

Station	Dist	Prop. W.L. Silvergate	Grade	Height	Remarks
IP	4.00	337.04		333.04	Nail in R.P. SW Cor Rosecroft & Silvergate City, Oct 16, 1929
IP	2.53	333.82	5.75	331.29	
9+30	CONN TO MAIN		2.5	331.3	
9+00			2.1	331.7	332.0 328.5 C32
+88°	Prop Line W.L. Silvergate				
+50			1.7	332.1	332.0 328.5 C25
8+00			2.9	330.9	331.1 327.6 C33
+50			5.2	328.6	328.9 325.4 C32
7+00			7.7	326.1	326.3 322.8 C23
+50			10.6	323.2	323.7 320.2 C30
IP (rock)	0.45	321.50	12.77	321.05	
6+00			1.0	320.5	321.1 317.6 C22
+50			3.8	317.7	318.5 315.0 C27
5+00			6.5	315.0	316.0 312.5 C25
+50			9.2	312.3	313.3 309.8 C25
IP 4+00	1.01	311.00	11.51	309.99	310.9 307.4 C26
+50			2.8	308.2	308.7 305.2 C30
3+00			4.3	306.7	307.5 303.0 C27
+50			5.1	305.9	307.0 303.5 C24
2+00			5.3	305.7	306.5 303.3 C24
+50			5.3	305.7	306.6 303.1 C26

All marked C30.

MAY 10, 1929
Same Party 53

1+00	311.00	5.3	305.7	306.5 303.0 C30
+50		5.1	305.9	306.4 302.9 C30
+40	(5) FH. = 19° 50' E ST = 15' EAST of Catalina	4.7	306.3	306.4 FO
0+00	CONN TO MAIN			
CK Spica & Catalina		4.48	306.52	= 306.50

MAY 12 1949
Beatty
Baker
Reeders

METER BOX GRADES DENBY ST

P	7.00	141.60		134.60	
D	5.33	143.51	3.42	138.18	
0+32 E			7.2	136.3	137.3 F10
0+68 W			5.9	137.6	137.7 F0L
0+78 E			6.3	137.2	137.1 C0L
1+10 W			5.6	137.9	137.5 C04
1+22 E			7.1	136.4	136.9 F0E
1+51 W			5.4	138.1	137.3 C08
1+72 E			7.3	136.2	136.3 F0L
1+95 W			5.3	138.2	137.2 C10
2+18 E			8.2	135.3	136.1 F01
2+29 W			4.6	138.9	137.1 C12
2+65 E			7.8	135.7	135.9 F0E
2+79 W			4.0	139.5	136.8 C12
3+12 E			6.8	136.7	135.7 C10
3+24 W			3.9	139.6	136.7 C12
3+61 E			6.3	137.2	135.5 C12
3+99 W			3.8	139.7	136.3 C14
4+09 E			6.1	137.4	135.3 C10
4+45 W			5.3	138.2	136.0 C12
4+56 E			6.7	136.8	135.0 C18
4+95 W			7.9	135.6	133.9 C18
4+99 E			8.2	135.3	133.3 C20
5+50 E			11.3	132.2	129.1 C22
CL 5+50			11.31	132.20	= 132.10

MAY 12 1949
Same Party 54

METER BOX GRADES - West Side 41ST ST

BM	9.86	135.25		125.39	
4+91			8.3	127.0	126.2 C08
10+91			5.0	130.3	128.2 C2L
9+91			2.8	132.5	129.8 C27
8+96			1.5	133.8	130.7 C3L
8+41			2.3	133.0	131.0 C20
7+91			2.4	132.9	131.3 C16
5+13	6.90	140.02	2.13	133.12	
4+55			6.4	133.6	133.6 C00
4+26			5.4	134.0	134.4 C02
3+55			4.8	135.2	134.9 C03
3+00			2.5	137.5	136.9 C06
2+32	11.45	151.19	1.0	139.0	138.6 C04
1+61			0.26	139.76	140.8 C0L
1+23			10.3	140.9	
CL D.F.H.			8.3	142.9	143.3 F04
			6.5	144.7	125.4 F07
			1.18	150.01	= 150.10
					MAY-16-49
					TRANSFERS W SIDE 41ST
P (5+13)	3.84	137.44		133.60	
5+70			3.9	133.5	133.0 C05
6+79			4.0	133.4	132.0 C10
7+22			4.3	133.1	131.7 C14
9+40			4.3	133.1	130.3 C28
10+61			6.5	130.9	128.8 C21
11+45			9.8	127.6	127.2 C04

May 16 1949
Same Party

WATER METER GRADES RAVEN ST.

40th & MARBLE

BM	10.98	139.22		128.24		
W	11.29	149.75	0.73	138.49		
12+66 E			13.2	136.6	135.1	C15
12+51 W			8.7	141.1	136.3	C18
12+16 E			11.3	138.5	137.7	C18
11+82 W			6.9	142.9	141.0	C12
11+66 E			9.0	140.8	140.5	C13
11+26 W			5.3	144.5	143.1	C14
11+11 E			6.1	143.7	143.6	C14
10+91 W			2.1	147.7	145.0	C22
10+73 E			4.0	145.8	146.1	F13
10+41 W			1.0	148.3	147.5	C12
10+16 W			0.3	149.5	148.4	C12
10+09 E			1.5	148.3	148.5	F12
9+52 E	10.28	159.96	0.10	149.68	149.8	F12
9+45 W			7.9	152.1	150.3	C18
8+91 W			7.3	152.7	150.7	C22
8+76 E			9.9	150.2	150.4	F12
8+41 W			7.0	153.0	151.0	C20
8+16 E			8.9	151.1	150.7	C14
7+91 W			6.1	153.9	151.1	C23
7+66 E			9.0	151.0	150.9	C14
7+41 W		✓	5.1	154.9	151.4	C24
7+22 E			8.2	151.8	151.1	C17
6+83 E			8.2	151.8	151.3	C15
6+52 W			1.9	158.1	151.8	C13

59

159.96

5+55 E			7.9	152.1	152.1	C12
5+47 W			6.2	153.8	152.6	C12
5+05 W			4.4	155.6	152.9	C22
4+94 E			7.9	152.1	152.5	F14
4+55 E			7.8	152.2	152.9	F17
4+52 W			5.8	154.2	153.3	C19
4+05 W			5.5	154.5	153.6	C19
4+03 E			6.6	153.4	153.3	C14
3+55 E			6.1	153.9	153.6	C13
3+05 E			5.5	154.5	154.2	C13
3+03 W		✓	4.3	155.7	154.6	C14
2+61 W			3.3	156.7	153.4	C12
2+55 E			4.7	155.3	155.2	C14
2+05 E		(RENEWED AS 8 SET STIFF MOVED TO H55)	3.1	156.9	156.8	C14
2+05 W			2.0	158.0	157.3	C12
1+18 W	11.40	171.07	0.29	159.67		
0+73 W			7.1	164.0	163.5	C15
0+73 W			3.5	167.6	168.2	F18
0+45 E			2.2	168.9	169.5	F16
CK 0+40 ⁵ F1(5)			2.05	169.02	=169.0	

158
405
1985

May 18

1949
DEATH
DANCE
ROBBERS
CARRIER

56

GRADES FOR METER POLES DWIGHT ST.

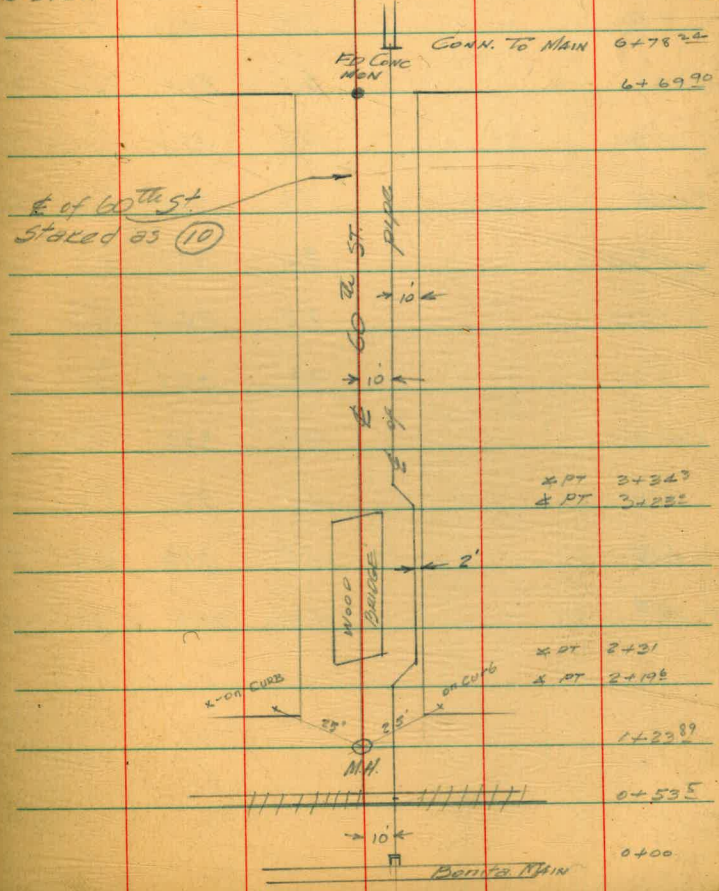
					8. P. NE COR LANTANA & EUCLID
BM.	7.95	348.41		340.46	
11	1.12	338.93	10.62	337.79	
0+57. N			5.3	333.6	332.6 C10
0+40.5			6.3	332.6	332.5 C11
1+13 S			7.1	331.8	332.2 F04
1+42 N			5.7	333.2	332.4 C8
1+81 S	5.94	337.52	7.35	331.58	332.0 F04
2+25 N			4.1	333.4	332.1 C10
2+52 S			5.5	332.0	331.7 C03
2+83 N			3.4	334.1	332.0 C21
2+84 S	=		5.3	332.2	331.6 C08
3+30 N.			3.2	334.3	331.8 C25
3+54 S			4.7	332.8	331.4 C14
3+65 N			3.2	334.3	331.7 C26
3+80 S			4.7	332.8	331.2 C16
4+29 S			5.2	332.3	330.6 C17
4+41 N			4.2	333.3	331.0 C22
4+68 S			5.9	331.6	328.7 C29
4+89 N			5.3	332.2	328.1 C41
5+09 N			6.0	331.5	327.2 C43
R	11.29	335.97	12.84	324.68	
		LANTANA ST			
0+37 W			5.7	330.3	325.9 C4
0+23 E			12.9	323.1	324.5 F14
1+03 W			1.1	334.9	329.5 C50
1+27 E			4.5	331.5	329.9 C16
OK 4+50 Dwight			4.76	331.21	= 331.20

GRADES FOR WATER LINE 60th St

Imperial to
Kenwood
BR. PIN on
BRIDGE NEAR
DRIVE

BM	5.30	166.58		161.28	
TP	8.35	173.05	1.88	164.70	
0+00	CONN TO MAIN	0.3	172.8	168.8	C40
+50		1.1	172.0	168.5	C35
+53 ²⁰	E RR TRACK	1.00 (RM)	172.05		
1+00		2.5	170.6	167.3	C33
+23 ⁸	E AIKEN ST.			169.6	E CURB - LOW CURB
+50		2.7	170.4	166.7	C43
				170.4	
2+00		2.3	170.8	166.9	C39
				171.0	
+196	X PT 45° RT	2.0	171.1	167.5	C36
+31	X PT 25° LT	1.4	171.7		
	10.90	181.63	2.32	170.73	
+50	on Bridge C&O	11.8	169.8	160.6	C92
2+98	" " "	9.7	171.9	160.6	C13
3+23	X PT 25° LT	6.7	174.9		
3+34 ³	X PT 45° RT	6.6	175.0	174.9	C36
				175.5	
+50		5.8	175.8	174.0	C38
				178.7	
4+00		2.5	179.1	175.2	C39
	11.20	192.72	0.11	181.52	
+50		9.1	183.6	181.8	C52
				178.3	
5+00		5.5	187.2	185.0	C51
				181.5	
+50		3.5	189.2	187.7	C50
				184.2	

6+00	192.72	2.1	190.6	190.3	
				186.8	C38
				193.0	
+50	7.35	199.81	0.26	192.46	189.5 C30
				194.00	
+69 ⁹				190.5	
+78 ²⁰	CONN. TO MAIN.	5.9	193.9		
CL & REUT.		1.51	198.31	198.40	Prof



JUNE 7 1949

BEATTY
DALLER
ROSEBRO
CARVER

58.

WATER LINE GRADES BOSTON ST
Between 35th & 36th

BM.	1.13	43.14	42.01	Conc. Mon 10'	50 line Prof. 114 42.0
6+00		1.1	42.0	38.5	C35
+50		1.6	41.7	41.2 37.7	C40
5+00		2.6	40.5	40.1 36.6	C39
+50		3.9	39.2	39.1 35.6	C36
4+00		5.0	38.1	38.1 34.6	C35
+50		6.1	37.0	37.1 33.5	C35
3+00		7.2	35.9	36.1 32.6	C33
+50		8.0	35.1	35.0 31.5	C26
2+00		8.7	34.4	34.0 30.5	C39
+50		9.3	33.8	33.0 29.5	C43
1+00		10.1	33.0	32.0 28.5	C45
+50		11.1	32.0	31.1 27.6	C44
0+00		11.5	31.6	30.1 26.6	C50
CK & 35 th		11.96	31.18	31.1 (Prof.)	

Sept 16, 1969

Beatty
Rogers
Finney

59

GRADES SET FOR METERS

THORN TO MEYHE
IN ALLEY SE COR

BM.	12.84	319.54		306.70		
H.	9.48	328.61	0.41	319.13		
0+00 = North Prop Line Thorn St						
0+36 W			9.2	319.4	315.8	C36
0+50 E			10.6	318.0	317.3	C07
0+73 W			7.8	320.9	319.3	C15
0+99 E			9.0	319.6	320.2	F06
1+36 W			6.5	322.1	321.6	C05
1+42 E			7.7	320.9	321.4	F05
1+71 E			5.3	323.3	322.2	C11
1+75 W			4.9	323.7	322.7	C10
2+12 W			3.4	325.2	323.6	C16
2+32 E			3.4	325.2	323.8	C14
2+78 W	4.50	332.26	0.85	327.76	325.3	C12
3+24 W			4.6	327.7	326.5	C12
3+26 W			4.6	327.7	326.5	C13
3+76 W			3.6	328.7	327.3	C14
4+23 W			3.8	328.5	327.9	C06
4+29 W			3.8	328.5	327.9	C06

332.26

4+67 E						4.2	328.1	328.0	C01
4+72 W						3.3	329.0	328.4	C06
Top 8" Sewer						7.95	325.31		
5+71 E						2.2	330.1	330.6	F05
TP						5.06	337.01	0.31	331.95
OK BM. NW COR						4.99	332.02	=	332.295
MEYHE & FAIRMONT						2.38	327.95	11.44	325.57
OK BM. SE COR						9.94	318.01	=	318.30
THORN & FAIRMONT						1.68	319.69		318.01
BM									318.01
OK BM.						13.00	306.69	=	306.70
TD						3.70	322.83		319.13
0+00						8.5	314.3	315	C62
1+40						4.7	318.1	318.4	C52
1+80	12.87	332.89				2.81	320.02		
1+00						13.3	319.6	319.37	C37
2+8						12.8	320.1	320.19	C31
2+48						10.8	322.1	321.75	C38
2+00						9.1	323.8	323.10	C42
2+50						7.1	325.8	324.3	C50
3+00						5.9	327.0	325.55	C49
2+42						5.1	327.9	326.45	C49
2+80						4.7	328.2	327.02	C47
2+00						4.7	328.4	327.9	C44
2+50						5.3	327.6	327.7	C34
3+00						4.5	328.4	328.22	C37
2+50						3.8	329.1	329.6	C30
3+00						0.0	332.9	331.5	C49
TD						5.13	327.76	=	327.76

Sept 22, 1949

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GRADES SET FOR MAIN & METERS
IN ALLEY Thorn-Redwood-Fairmont-44.9

BM.						
	4.23	322.24	318.01	318.20		
0+00	Prop line So. Thorn St.	10.6	311.6	310.9 307.4	C42	
0+10		5.1	317.1	311.9 308.4	C82	
0+24	MET East	4.0	318.2	313.2	C52	
0+50		5.0	317.2	315.3 311.8	C54	
0+60	MET West	5.1	317.1	316.0	C11	
0+65	MET East	4.4	317.8	316.0	C18	
0+70		5.4	316.8	316.1	C42	
0+90		5.5	316.7	316.1	C41	
1+00		5.4	316.8	315.9	C44	
1+22	MET EAST " WEST	3.6	318.6	315.6	C92	
	2.41	318.69	5.96	316.28	315.8	C09
1+50		2.3	316.4	315.9	C40	
1+76	MET East	2.2	316.3	314.9	C14	
1+95	MET West	3.4	315.3	314.7	C06	
2+00		3.6	315.1	314.5	C41	
2+17	MET East	3.8	314.9	314.4	C05	
2+36	MET West	3.6	315.1	314.2	C09	

			318.69			
2+40		3.8	314.9	313.9	C45	
2+57	MET West	4.0	314.7	313.9	C08	
2+60		3.9	314.8	313.6	C47	
2+76	MET East	4.0	314.7	313.5	C12	
2+80		4.0	314.7	313.3	C49	
3+00		4.9	313.8	312.9	C44	
3+20		5.5	313.2	312.5	C42	
3+23	MET East	5.7	313.0	312.5	C05	
3+50		5.9	312.8	311.9	C44	
3+70	MET East	6.3	312.4	311.6	C08	
3+81	MET West	6.5	312.2	311.4	C08	
4+00		7.2	311.5	310.8	C42	
4+05	MET West	7.2	311.5	310.9	C06	
4+25	MET East	2.7	315.0	314.4	C46	
4+40		7.8	310.9	310.0	C44	
4+47	MET EAST MET WEST	8.7	310.0	310.0	C02	
		8.3	310.4	310.0	C04	
4+80		8.8	309.9	309.2	C42	
5+00		9.3	309.4	308.7	C42	

OCT. 3-1949

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Alley (cont'd)

5+20		9.9	308.8	308.0	C43
5+00		10.6	308.1	307.1	C45
5+41	NET East	10.6	308.1	307.0	C09
5+60		11.7	307.0	306.0	C45
5+73	NET East	12.1	306.6	305.0	C13
TP	6.80	312.06	12.83	305.86	
6+00	Prop line Nor Medwood St.	8.4	304.3	303.7	C41
TP	7.81	319.78	0.69	311.97	
CK BM	BP Thorn Fairmont SE CR.	1.78	318.00	= 318.01	

GRADES SET FOR 6" CI MAIN Island ST 28th-29th

BM	6.74	104.77		98.03	BP SW Cor 28 th & Island
0+00	- 23' W-Elm	28 th St	6.3	98.5	98.7 94.7 C38
0+50			5.8	99.0	97.7 93.7 C33
1+00			4.5	100.3	100.9 96.9 C34
1+50			3.2	101.6	102.2 98.2 C34
2+00			1.9	102.9	103.5 99.5 C34
2+50	12.14	116.19	0.72	104.05	104.7 100.7 C34
3+00			11.0	105.2	105.5 101.5 C37
3+50			8.5	107.7	108.4 104.4 C33
4+00			5.8	110.4	111.2 107.2 C32
4+50			2.9	113.3	114.1 110.1 C32
5+00	3.18	119.25	0.12	116.07	116.8 112.8 C33
5+09 ¹⁰	7'E - W line	29 th			
5+43	END		1.7	117.6	117.8 113.8 C38
TP	1.49	107.68	13.06	106.19	
CK BM			9.62	98.06	= 98.03

OCTOBER 25 1949

W.O. 2-674-5
WDD-C134
7713L

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GRADES FOR 6" MAIN & METERS IN ALLEY

BETWEEN 45th & Highland

POIK to Orange

BNL	5.01	359.17		354.16	352.16	352.16
11	4.57	358.43	5.31	353.86	353.3	353.3
P0+00	= Prop. Line of POIK		4.56	353.87	353.8	353.8
	3.64	357.51			349.9	349.9
+21	2-MET East		3.7	353.8	352.5	352.5
+26	" West		4.0	353.5	353.3	353.3
0450			3.8	353.7	353.2	353.2
+54	Met. East		3.9	353.6	353.2	353.2
+86	" West		4.2	353.1	352.7	352.7
1+00			4.8	352.7	352.7	352.7
+15	MET East		5.1	352.4	352.6	352.6
+86	" West		4.8	352.7	352.5	352.5
1+50			5.0	352.5	352.5	352.5
+73	MET East		5.2	352.3	352.2	352.2
+76	" West		4.9	352.6	352.2	352.2
+76	" East		5.2	352.9	352.2	352.2
2+00			5.3	352.2	352.1	352.1
+32	MET West		5.2	352.2	351.9	351.9
+42	" East		4.8	352.7	351.9	351.9
+50			5.1	352.4	351.9	351.9
+76	MET West		4.8	352.7	352.0	352.0
+86	" East		4.6	352.9	352.0	352.0
3+00			4.6	352.9	352.1	352.1
11	5.29	358.20	4.60	352.91	348.1	348.1
+30	MET West		5.4	352.8	352.3	352.3
+40	" East		5.4	352.8	352.2	352.2
+46	" West		5.5	352.7	352.3	352.3

358.20

3+50		5.3	352.9	352.3	348.3	348.3
+69	MET East	5.1	353.1	352.4	349.2	349.2
4+00		4.7	353.5	352.6	348.6	348.6
+03	MET West	5.10	353.1	352.6	349.5	349.5
+28	MET East	5.0	353.2	352.7	349.5	349.5
+50		4.8	353.4	352.9	348.9	348.9
+61	MET East	4.6	353.6	352.9	349.7	349.7
+64	MET West	4.8	353.4	352.9	349.5	349.5
5+00	MET West	4.7	353.5	353.0	349.5	349.5
5+00	MET East	4.9	353.3	353.1	349.5	349.5
5+05		4.8	353.4	353.1	349.1	349.1
+76	MET West	4.6	353.6	353.2	349.4	349.4
+40	" East	4.2	353.8	353.2	349.6	349.6
+47	" East	4.5	353.7	353.2	349.6	349.6
5+50		4.6	353.6	353.2	349.2	349.2
5+77	So. Prop. Line Orange	5.0	353.2	353.4	349.5	349.5
11 curb	5.53	359.14	4.59	353.61		
OK BNL		4.95	354.19	354.16		

OCTOBER 28, 1949

W.O.* 2-718-5
PRF. 3533

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GRADES FOR 6" MAIN - SUNSET ST - TAYLOR TO GAINES
GAINES ST. - SUNSET TO WHITMAN

BM	2.21	11.27	5.20	9.06	3rd. COR
11	4.78	10.65	4.90	05.87	TOP F.H. HDT. TAYLOR & WHITMAN
			4.86	05.75	CURB on South
				05.79	CURB on North
0+00	{5' south E Sunset St W. Prop. Line Taylor		5.4	05.3	05.70 01.20 CA1
+50			5.1	05.6	" CA4
1+00			5.1	"	" CA4
+50			5.2	"	" CA3
2+00			5.2	"	" CA3
+50			5.3	"	" CA2
3+00	4.84	10.17	5.32	05.33	" CA2
+50			4.9	"	" CA1
4+00			4.9	"	" CA1
+50			4.7	"	" CA3
5+00			4.8	"	" CA2
+50			4.3	"	" CA2
6+00			3.9	"	" CA1
+40	E.H. 165° 30. 25T		4.1		" CA4
7+50	2.73	10.79	4.1	06.06	" CA2
8+70	6" TEE 20' {NOR WEST}		4.8	06.0	05.70 01.2 CA2
					JF COR PROP LINE SUNSET & GAINES

6+70 =	10.79				
0+00 =	6" TEE	4.8	06.0	05.70 01.2	CA2
+50		5.1	05.7	01.3	CA4
1+00		5.0	05.8	01.4	CA4
+50		4.8	06.0	01.6	CA4
2+00		4.5	06.3	01.7	CA6
+50		4.4	06.4	01.9	CA5
3+00		4.4	06.4	02.0	CA4
TP					
+38		3.9	06.9	02.5 02.7	CA2
	Top 12" C.I.	5.8	(6) 04.99	06.7	
+47	South edge of 12" Main		02.39	02.2	
				02.0	
TP		4.43	11.31	3.91	06.88
OK B.V.			2.23	09.08	= 09.06

W.O 2-693-5

NOVEMBER 1, 1949

Beatty
Rogers
Finney

NOYES

FINNEY

GRADES FOR 6" MAIN - REED ST - OLNEY

BM	0.37	40.74	40.37	CT. SE COR REED & OLNEY
IP	5.26	32.90	12.10	27.64
IP	0.00	19.83	13.07	17.83
				50 CORN 10W CORN
0+00	-10' EAST SOUTH	Reed & Noyes	6.7	13.1
				12.9 08.9 C 42
+50			4.9	14.9
				14.2 10.2 C 43
1+00	7.36	25.00	2.19	17.64
				16.3 12.3 C 52
+50			4.5	20.5
				18.1 14.1 C 60
2+00			3.2	21.8
				19.3 15.3 C 65
+50			3.6	21.4
				18.8 15.8 C 56
3+00			4.5	20.5
				17.6 15.6 C 49
+50			5.0	20.0
				17.0 15.0 C 50
4+00			5.3	19.7
				18.1 14.1 C 56
+50			6.0	19.0
				17.0 13.0 C 62
5+00			7.4	17.6
				15.7 11.7 C 59
+50			10.5	14.5
				14.4 10.4 C 41
6+00			11.7	13.3
				13.0 09.0 C 43
+20			12.6	12.4
				12.1 08.1 C 42
+20	F.H.	23' South of Street	12.9	12.1
				12.06 C 00
CK & Prof			12.5	12.5
				13.0
D (1+00)	1.69	19.33		17.64
CK BM			7.50	11.83
				C 11.89

Nov. 3 1949 64
Rogers
Finney

GRADES FOR METER BOXES - REED ST

BM	12.67	24.56	11.89	NAIL IN SW COR. PP REED & NOYES
North				C 29
4+76			6.6	18.0
				15.1
North				C 32
4+28			4.2	20.4
				17.2
South				C 30
3+83			3.6	21.0
				18.0
North				C 20
2+78			2.1	22.5
				20.5
North				C 17
2+54			2.9	22.2
				20.5
North				C 16
2+16			2.8	21.8
				20.2
2+16				
T.P.	3.04	24.79	2.81	21.75
South				C 20
1+04			5.3	19.5
				17.5
South				C 25
0+57			5.9	18.9
				16.4
South				C 29
0+05			6.8	18.0
				15.1
NORTH				C 30
0+53			4.8	20.0
				17.0
(CK 3+50)			4.7	20.1
				20.0

PROFILE 3188-3247
W.O. 2-706-5

Nov. 10, 1949 - Rain

1287th
Regent's
Finney

65

GRADES FOR 8" MAIN CALLE SERENA

Calle Serena Cont'd & Calle Pintoresca

289.17

P.M.	12.35	256.46		244.1	OR New Cor See bridge Winchester See pg. 23.
1D	13.08	269.09	0.45	256.01	
1R	11.36	280.35	0.10	268.99	
			7.47	270.88	= 271.0 (C.F.H. on 23)

7+50		5.9	283.3	282.7	C48
------	--	-----	-------	-------	-----

+738	(15' RT to Prop Cor. Road)				
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8+100		7.9	281.3	279.6	C59
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8+328	(340) Meas			277.8	C63
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+388	30" x 8" Cross @	8.8	280.4	277.5	
------	------------------	-----	-------	-------	--

+50		8.6	280.6	278.3	C73
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9+100		11.9	277.3	276.9	C7
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+50		15.4	273.8	272.7	C53
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9+95	2" B.O.	18.4	270.8	269.0	C60
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Calle Pintoresca

Non Side Low Cor
Drop 0.8' Brms

8+343	@ Calle Serena 8" x 8" Cross	8.4	280.8	277.8	C72
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0+242	Calle Pintoresca	7.8	281.4	281.0	C04
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+41	F.H.			280.3	
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13+03	294.23	7.97	281.20	276.3	C49
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14+00		11.9	282.9	282.5	C49
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+50		9.7	284.5	284.3	C47
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2+00		8.1	286.1	285.8	C48
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+50		6.4	287.8	287.5	C48
-----	--	-----	-------	-------	-----

3+00	8" x 6" TEE	4.7	289.5	289.0	C50
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+50		3.5	290.7	290.5	C47
-----	--	-----	-------	-------	-----

4+00		1.9	292.3	292.2	C40
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+50		0.1	294.1	293.7	C49
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+0.9		5.51	295.1	294.5	C51
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5.51			288.72	290.0	C51
------	--	--	--------	-------	-----

0+00	STAKED (4' offset on East) Cross AT Winchester	11.4	269.0	264.1	C49
------	--	------	-------	-------	-----

+50		10.5	269.9	268.2	C59
-----	--	------	-------	-------	-----

1+00		7.6	272.8	272.4	C46
------	--	-----	-------	-------	-----

+50		3.4	277.0	276.4	C48
-----	--	-----	-------	-------	-----

11.43	291.44	0.34	280.01	277.2	C48
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2+00		10.7	280.7	280.4	C45
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+50		7.2	284.2	283.6	C48
-----	--	-----	-------	-------	-----

3+00		5.1	286.3	286.2	C43
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+50		3.5	287.9	287.7	C44
-----	--	-----	-------	-------	-----

4+00		3.1	288.3	288.7	C33
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+50		2.7	288.7	288.7	C42
-----	--	-----	-------	-------	-----

5+00	0.78	289.17	3.25	288.19	288.1	C43
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+50		1.4	287.8	287.5	C42
-----	--	-----	-------	-------	-----

6+00		1.6	287.6	286.9	C49
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+50		2.1	287.1	286.1	C54
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7+00		3.7	285.5	284.6	C51
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W.O. # 2-719-S Nov. 16 1949
DREF

OLIPHANT ST ROSECRANS TO LOCUST
GRADES FOR 6" MAIN & METERS

Beggy
Rogers
Finney

B&P, Nor Cor
NEWEL ST &
ROSECRANS
CUIB RET. CURP
= 0.767 DREF

GRADE 4.3 Below
Low Cor. (North)
2.0 COS

BM	2.46	12.85	08.39		
HP	8.12	15.89	5.08	07.77	
2+71	④ FH 28 E FT from E ST	7.4	8.5		
2+64	④ 14' from E ST	8.1	07.8	07.8 03.6	C4
+50	④	7.8	08.1	08.1 03.9	C4
+23	② METER NOR 25' from E ST	6.9	09.0	08.6 08.7	C03
2+00	④	6.4	9.5	09.00 04.3	C47
+98	② Meter Nor 25' from E ST	6.8	09.1	09.0 07.1	C00
+50	④	5.1	10.8	09.9 05.7	C51
+12	② METER NOR	5.5	10.4	10.5 10.6	F03
1+00		4.7	11.2	10.5 6.3	C49
+68	③ METER NOR	4.6	11.3	11.4 11.5	F03
+61	③ " SOUTH 35' from E ST	3.8	12.1	12.0 12.1	C00
+50	④	4.0	11.9	11.7 07.5	C44
+29	③ METER NOR	3.3	12.6	12.3 12.3	C03
+27	③ METER SOUTH	3.1	12.8	12.7 12.8	C00
0+00	SOUTH DREF LINE LOCUST	2.2	13.7	12.7 08.5	C53
HP	Nail in Pole E Cor Locust	2.16	13.73		

Nov. 17 1949
Zanie Party

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POE ST ROSECRANS TO LOCUST
GRADES FOR 6" MAIN & METERS

06.8

HP	6.56	20.29	13.73		
HP	2.98	15.98	7.29	13.00	
0+00	④ - 14' So E Poe = South line Locust	3.0	13.0		GRADE 4.3 Below Low Cor. (South) 13.1 08.9 C21
0+20	④ FH = 29 E So E Poe	3.4	12.6	12.5 12.6	C00
0+17	③ METER NOR 25' from E ST	1.1	14.9	13.2 13.2	C16
0+37	③ METER So	3.7	12.3	12.2 12.2	F00
0+50	④	4.5	11.5	11.9 07.7	C38
0+57	③ METER NOR	2.9	13.1	13.1 13.2	C07
0+65	③ METER So	4.6	11.4	11.5 11.6	F02
1+00	④	6.0	10.0	10.7 06.3	C52
1+29	③ METER So	6.2	09.8	10.1 10.2	F04
1+50	③	7.0	09.0	09.6 05.4	C36
1+57	③ METER So	6.9	09.1	09.5 09.6	F03
1+87	③ METER NOR	7.4	08.6	08.7 08.8	F02
2+00	④	8.1	07.9	08.5 04.2	C27
2+42	③ METER NOR	8.5	07.5	07.2 07.3	C02
2+50	④	9.0	07.0	07.3 03.1	C39
2+64	④	9.2	06.6	07.0 02.8	C38
HP	5.63	12.53	9.09	06.89	
HP			4.11	08.42	= 08.39

DECEMBER 21 1949
 DEPT. OF
 HIGHWAYS
 FLORIDA
 GRADES FOR MAIN FLORIDA CT. TO GEORGIA

B.M.	7.61	291.61		284.00	120. NW. COR Georgia Express
					30. Curb low curb 42. Below low curb
0+00			6.4	285.2	286.0
11)	0.07	278.73	12.95	278.66	281.8 C32
+50			5.8	272.9	275.0
11)	0.00	266.04	12.69	266.04	270.8 C21 C30
1+00			2.4	263.6	263.8 C42
+50			10.1	255.9	252.5 C56
11)					250.2
+75	1.15	254.15	13.04	253.00	251.5 C57
2+00			2.7	251.5	250.0 C57
+50			4.1	250.1	249.2 C51
3+00			5.0	249.2	248.7 C47
+20			6.1	248.1	247.9 C44
11)	1.83	243.08	12.90	241.25	243.7 C44
OK B.M.			7.09	235.99	80. SW. COR Florida Express 236.00

CLEARING JAN. 5 1950
 QUINCE ST. - FRONT TO FIFTH
 & ALIGNMENT & DETAIL STATIONS
 DEPT. OF
 HIGHWAYS
 FLORIDA

- 7+99²⁰ BACK } CURB W SIDE 3RD AVE ON E
- 7+98⁶⁰ FACE } CURB W SIDE 3RD AVE ON E
- 7+94⁹⁹ & PT. 22 1/2° LT. (= 20' 50" & ST.)
- 7+68⁸⁰ & PT. 22 1/2° RT. (= 10' 50" & ST.)
- 7+82²⁹ W 7' " " " 3rd Ave.
- 5+68²⁵ E. 7' offset Prepline 2nd Ave
- 5+61⁵ Line of Curb E SIDE 2nd AVE
- 5+45⁵ WATER CROSSES
- 5+35⁵ SEWER CROSSES
- 5+25⁵ GAS CROSSES ?
- 5+09⁵ " " " W SIDE 2nd AVE
- 2+81⁵ Line of Curb E SIDE 1st AVE
- 2+65⁵ WATER CROSSES
- 2+55⁵ SEWER CROSSES
- 2+44⁵ GAS CROSSES
- 2+29⁰⁰ FACE } CURB " " " " ON E
- 2+28⁰⁰ BACK } CURB " " " " ON E
- 2+24³³ } SIDEWALK W. SIDE 1st AVE
- LT. 2+21²⁸ } SIDEWALK W. SIDE 1st AVE
- 2+19²⁸ } SIDEWALK W. SIDE 1st AVE
- 0+00 INTERSECTION { 10' 50" & QUINCE ST
 { 15' W of E Prepline of
 FRONT ST.
- 0-26. BERM of ROAD, E SIDE FRONT ST

1/5/50
 QUINCE ST. - FRONT TO FIFTH.
 & ALIGNMENT & DETAILS

13+70.9	Gas Crosses
96.50	
13+84.13	END LINE INTERSECT "MAIN 5TH AVE
13+80.96	E 5TH & SEWER
13+52.96	
13+48.7	W. CURB LINE 5TH AVE
74.79	
13+41.13	W. 7' OFFSET PROP. LINE 5TH AVE
11+16.8	WATER DUCT CROSSSES ✓
11+18	TELE DUCT CROSSSES ✓
11+30.4	
11+26.36	
11+19.5	E. CURB LINE 4TH AVE
11+12.6	Sewer Crosses ✓
11+16.2	Water Crosses ✓
11+08.3	Gas Crosses ✓
11+04.69	
10+97.83	X RT 22 1/2° RT. (= 10' 30" & ST.)
10+78.36	
10+71.5	X RT 22 1/2° LT. (= 20' 30" & ST.)
10+46.46	
10+69.8	W. FACE of CURB 4TH AVE
10+69.8	Back of " 4TH AVE
74.86	
10+48	Wood Guard RAIL Fence 4' High
74.86	

+ 6.86
 To BE Added

JAN 5 1950
 BEATTY
 ROGERS
 FINNEY 68.
 QUINCE ST. - FRONT TO FIFTH

Profile & Elev. & offsets				
B.M.	2.21	210.23	208.02	CHAS D on CURB. 1693/76 CITY DATUM
0-26	- 20' Back of STREET	4.6		
0+00	- 15' W. E. PROP. LINE FRONT STREET	22.6		
+06		26.4		
+12		27.7		
+31		19.0		
		⊕	⊕	
0+70	Temporary Relocating of PIPELINE	2.6	4.1	
TP	12.28	222.26	0.25	209.98
1+00		5.2	5.4	
+13			1.4	
TP	12.47	234.89	0.34	221.92
+25		7.3	7.4	
+50		4.0	2.1	
TP	9.21	242.89	0.71	233.69
1+69	} Brick Sidewalk		8.4	
1+71.32			8.4	
1+73			8.3	
+75		8.2	8.2	
+85	} Brick Sidewalk		6.4	
+87.6			6.5	
TP	12.94	255.79	0.64	242.85 on strip
+10			12.3	
+14			13.4	
2+19.13	} Conc Sidewalk		11.54	
2+24.13			11.55	
2+28.4	} Top curb	12.0	243.8	
2+29.2		12.0	243.8	
2+29.0		12.6	243.2	
2+55	Top Riv. NH. Sewer (10' 6") 170.	11.0	244.8	
		26.1	234.7	
2+50		11.1	244.7	240.5 CA2
2+55	& 1ST AVE	10.9	244.9	
2+81		11.5	245.3	
2+95		10.0	245.8	

4/6/50

QUINCE ST - FRONT TO FIFTH.

E PROFILE & Elev & offsets.

	255.79	⊖	E		
3+00		9.3	-	246.5	249.0 C35
+50		2.6	-	253.2	249.0 C42
4+00	12.82	268.55	0.06	255.73	
+50			10.3	-	258.3 254.1 C42
5+00			7.5	-	261.1 255.9 C42
			6.0	-	262.6 258.4 C42
	Rim of Sewer MH	5.02		262.53	
	Inv. "	13.82		254.73	
CK 10M		5.48		263.07	263.03 NW Cor. 200
+50		5.0	-	263.6	259.2 C43
+62		5.2	-	263.4	
6+00		4.1		264.5	259.2 C52
+50		3.9		264.7	259.2 C55
7+00		5.0		263.6	259.2 C48
+50		6.6		262.0	257.8 C42
+68.86	⊗ PT	7.2		261.4	257.2 C42
+95	⊗ PT	8.2		260.4	256.0 C44
+98.0		8.0		260.6	
+98.0		7.5		261.1	255.9
+99.2	Top Curb	7.5		261.1	
8+00		8.5		260.1	255.8 C43
+03		7.8		260.8	
TP	10.61	271.23	7.93	260.62	
8+14			28.0	251.2	
+16			23.1	268.1	
+25			29.1	242.1	
+35			34.5	236.7	
8+50			52.5	226.8	223.6 C32
+65			64.5	206.7	
+92			67.9	202.9	202.5 197.5 C43
9+00			78.4	192.8	193.0 186.0 C70
+21					188.0 C50
+29			79.8	191.4	
+32			78.6	192.6	188.0 C45
+41			78.0	192.5	186.0 C45
10+00			53.0	193.2	
+16				218.2	213.6 C48
+30				218.2	
+65			5.4	265.8	249.6 245.3 C43
+75				266.7	264.0 C37

4/6/50

69

QUINCE ST. FRONT TO FIFTH.

E PROFILE & offsets

	271.23				
10+49		4.3		266.9	
10+49		3.2		268.0	
10+49		3.2		268.0	
10+49		3.7		267.5	
+78.56	⊗ PT	3.6		267.6	264.0 C34
11+04	⊗ PT	2.7		268.5	264.9 C36
11+18	TELE MH Rim (30" LT)	2.6		268.6	
	Top Duct	7.4		263.8	
	Bot Duct	8.4		262.8	
11+12	SEWER MH Rim (15" R)	2.9		268.3	
	INV	9.9		261.3	
11+50		2.1		269.1	265.0 C27
11+30	TELE MH Rim (15" R)	2.0		269.2	
	Top	6.1		265.1	
	Bot	2.33		268.90	= 268.91
CK 10M NE Cor 4th Ave		0.39		270.8A	
12+00	10.48 281.32	9.9		271.4	267.3 C41
+50		7.6		273.7	269.1 C26
13+00		5.3		276.0	271.7 C43
+48		3.5		277.8	273.9 C42
+55		2.8		277.5	
13+80	⊗ 575	2.5		278.8	
13+96	WAT	2.5		278.8	
	INV	17.6		263.7	
13+80	Rim Sewer MH	2.6		278.7	
No 13 M. 10 Evidence	NE CURB	2.29		279.03	
	NW CURB	3.27		278.05	= 278.01

6" MAIN - AGATE ST.
 LAJOLLA MESA DRIVE TO DAWES
 W.O. 2-750-5 PROFILE 2261-3082

FEB 23 1950

BEATTY
 ROGERS
 FAYNE

ON CONC MON
 NE COR LUMD
 & AGATE ST.

CONN.
 MAIN

112.9
 110.2 C52

116.6 C54
 112.1

118.2 C51
 119.4

120.1 C52
 115.6

121.9 C52
 117.4

123.6 C57
 119.1

125.4 C57
 120.9

127.1 C61
 122.6

128.9 C70
 123.0 123.1

130.6 C45
 126.4 126.6

132.4 C42
 127.9 128.8

132.1 C62
 129.6 130.6

134.6 F13
 131.6

135.9 C51
 131.4 132.4

137.6 C34
 133.7 135.2

139.4 C34
 134.9

2/23/50

70

151.47

8+00	10.2	141.1	141.1	136.6	C45
+50	8.1	143.4	142.9	138.4	C50
9+00	6.3	145.2	144.6	140.1	C51
+50	4.3	147.2	146.4	141.9	C52
10+00	2.7	148.8	148.1	143.6	C52
+50	1.4	150.1	149.9	145.4	C47
11+00	8.37	159.46	151.6	147.1	C40
+40 ³²	W. Prop. Line Cass				
+50		7.9	151.6	152.6	C35
CR B.M.	conc. Mon NW Cor Cass	2.94	154.52	154.62	
12+13 ³²	= E. Prop. Line Cass	5.6	153.9	153.2	C52
12+23 ²²	F.H. = 23' So. E St.				
12+23 ³²	F.H. (D)	5.8	153.7	153.4	C03
+63 ³²		4.9	154.6	154.1	C50
13+13 ³²		4.5	155.0	155.0	C45
+63 ³²		4.5	155.0	155.2	C43
14+13 ³²		4.7	154.8	155.2	C41
+63 ³²		5.0	154.5	155.0	C40
15+13 ³²		5.0	154.5	154.6	C42
+38 ³²		5.3	154.2	154.2	C45
+88 ³²		5.8	153.7	153.4	C48

FEB. 23 1950
6" MAIN - AGATE ST. CONT'D

	159.46				
L	16+38 ³²	6.6	152.9	152.2 C ⁵⁴ 147.5 5 ⁴	
B	+88 ³²	7.8	151.7	150.7 C ⁵⁵ 146.2 5 ²	
	17+12 ⁵ W. Prop Line Dawes	8.7	150.8	149.9 C ⁵⁴ 145.4 5 ⁴	
L	17+38 ³²	9.7	149.8	150.2 C ⁴¹ 145.7 4 ¹	
	17+92 ⁵ E Prop Line Dawes	9.2	150.3	150.5 C ³² 146.0 4 ²	
Z	CK BM. (Conc Man NW Cor Dawes)	7.00	152.46	152.28	
	TP	0.73	151.82	8.37	151.09
B	TP	0.15	139.00	12.97	138.85
	TP	0.34	127.10	12.24	126.76
A	TP CK BM.	12.27	114.83	114.85	

6" MAIN ARCHER ST.
LA JOLLA MESA DRIVE TO DAWES. FEB. 24

B	BM	11.58	126.43	114.85	Conc Man NE Cor GMD & AGATE CONN TO MAIN
	0+86 = 4'-19" 50' E	2.9	123.5		
L	1400 - E. Prop Line L.J.M.D	3.0	123.4	124.1 C ³⁸ 119.6	
	+50	1.4	125.0	125.5 C ⁴² 121.0	
	TP	12.97	139.27	0.13	126.30
	2+00	12.4	126.9	127.0 C ⁴⁴ 122.5	
Z	+50	10.8	128.5	128.6 C ⁴⁴ 124.1	
TP	3+00	9.2	130.1	130.2 C ⁴⁴ 125.7	
	+65	7.5	131.8	132.2 C ⁴¹ 127.7	

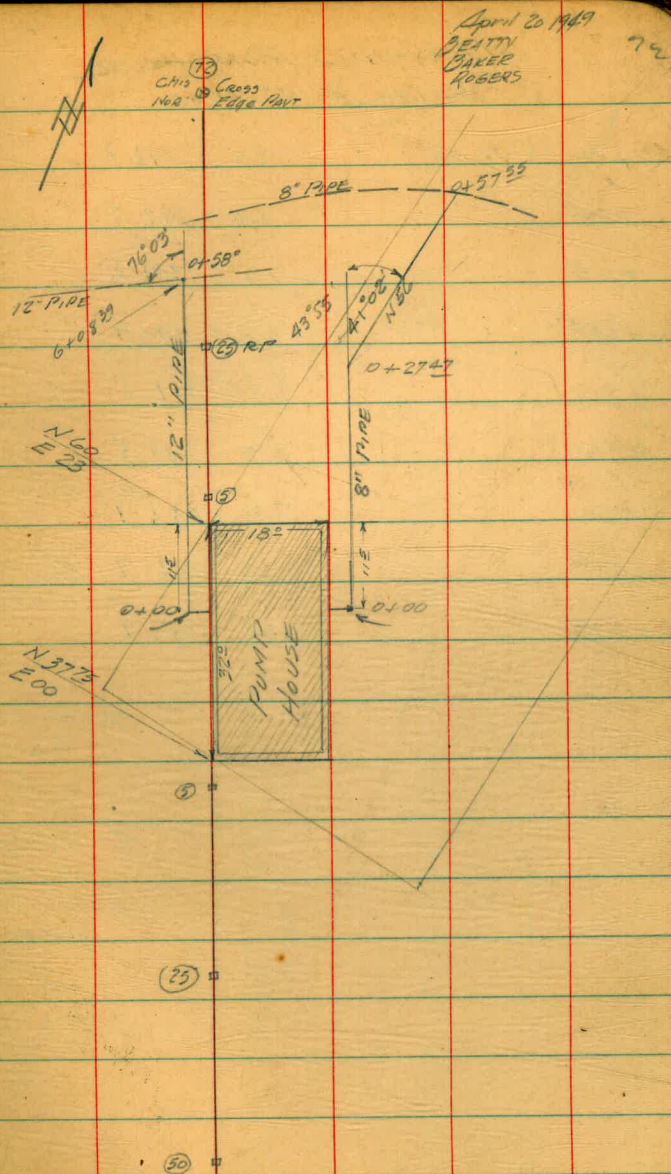
FEB. 24 1950
6" MAIN ARCHER ST.
LA JOLLA MESA TO DAWES. 71

	139.27				
	4+00	6.4	132.9	133.3 C ⁴¹ 128.8	
	+50	4.8	134.5	134.9 C ⁴¹ 130.4	
	5+00	2.8	136.5	136.5 C ⁴⁵ 132.0	
	+50	1.0	138.3	138.0 C ⁴⁸ 133.5	
TP	12.79	151.65	0.41	138.86	
	+75	12.4	139.3	138.8 C ⁵⁰ 134.3	
	6+25	10.8	140.9	140.4 C ⁵⁰ 135.9	
	+75	9.7	142.0	142.0 C ⁴⁵ 137.5	
	+75 FH E 23.50 E ST.	9.9	141.8	142.0 F ⁰²	
	+75 FH S 28 " " "	8.1	143.6	143.6 C ⁴⁵ 139.1	
	+50	7.3	144.4	144.3 C ⁴⁶ 139.8	
	8+00	4.9	146.8	146.0 C ⁵³ 141.5	
	+50	3.2	148.5	147.6 C ⁶² 143.1	
	9+00	2.9	148.8	149.1 C ⁴⁷ 144.6	
	+16 E PIPE	9.4	142.3	149.8 F ^{2E} 145.3	
	+70 E PIPE	11.1	140.6	151.6 F ⁵⁶ 147.1	
	+70	10.2	141.5	150.80	
TP	12.41	163.21	0.85	150.80	
	10+20	8.8	154.4	153.8 C ⁵¹ 149.3	
	+70	6.8	156.4	156.2 C ⁴⁷ 151.7	
	11+20	4.3	158.9	158.6 C ⁴⁸ 154.1	
	+70	1.5	161.7	160.9 C ⁵³ 156.4	
TP	10.32	173.14	0.39	162.82	
	12+20	9.5	163.6	162.0 C ⁶¹ 157.5	
	+264 = 7' E-W Prop Line Cass				

(CONTINUED ON Pg. 74)

MUIRLANDS DUMPHOUSE
PROFILE & 12" PIPE

Station	Offset	Elevation	Profile Elevation
TD	8.05	394.26	386.21
0+00 (12" Pipe)	6.1	388.2	
+06	6.4	387.9	
+15	6.3	388.0	
+25	7.2	387.1	
+32	7.9	386.4	
+40	8.5	385.8	
+43	8.3	386.0	
+45	8.6	385.7	
+50	9.8	384.5	
+56	11.7	382.6	
0+58	12.0	382.3	
0+58 Top 16" PIPE (Located With Pipefinder)	15.56	378.70	378.63



April 20, 1949

MUIRLANDS PUMPHOUSE

PROFILE 8" PIPE

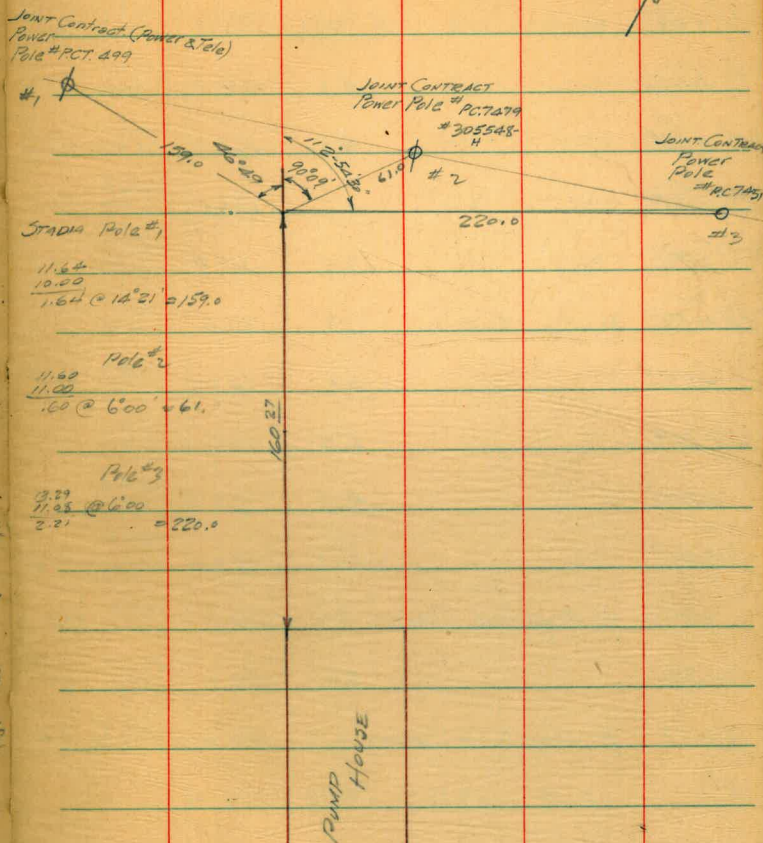
0+00 (8" PIPE)	392.26 394.7	2.0	392.3	
+04		1.6	392.7	
+11 [±]		1.9	392.4	
+27 [±]		3.2	390.9	
+30		2.8	391.5	
+36		4.8	389.5	
+50		7.6	386.7	
+53 ⁹⁰		7.59	386.7	Edge Pavt
0+57 ⁸⁵		7.38	386.9	

- E-NE COR
C 46/46
- N NE COR
C 27/27
- ⑤ NW COR C 03
- NW COR C 03
- ⑤ S.W. COR C 02
- SW COR C 06
- S SW COR
C 33/33
- E SW COR
C 34/34

4-21-49

73

LOCATION OF POWER POLES



2/24/50
6" MAIN - ARCHER ST
(CONTINUED FROM PG 71)

12+59 ⁸		8.9	164.2	163.0 158.5	57
12+99 ⁸	E Prop line Cass	7.9	165.2	164.0 159.5	57
13+49 ⁸		5.8	167.3	164.8 160.3	57
+99 ⁸		4.8	168.3	165.7 161.2	57
14+49 ⁸		4.7	168.4	166.4 161.9	55
+99 ⁸		5.2	167.9	166.6 162.1	58
15+49 ⁸		5.3	167.8	166.5 162.0	58
+99 ⁸		5.1	168.0	166.0 161.5	55
16+49 ⁸		5.5	167.6	165.2 160.7	59
+99 ⁸		4.7	168.4	164.4 159.9	55
17+49 ⁸		6.1	167.0	163.7 159.2	58
+98 ⁸	W Prop line Dawes	8.3	164.8	163.0 158.5	53
18+38		8.9	164.2	162.7 158.2	56
18+78	E Prop line Dawes	8.7	164.4	162.7 158.2	52
P	0.00	163.56	9.58	163.56	
CK PIN	Cont. Mon. NW Cor. Dawes & Spote (See pg. 71)	11.11	152.45	152.28	
18+88		8.6	164.5	163.2 158.7	58
+88	E FH = 23' from EST				
+88	⑤ " = 28' " " "	9.5	163.6	163.0	54

MAR 27 1950 7A

Extension of 6" MAIN - ARCHER ST
Dawes Easterly

P	10.08	173.64	163.56	
19+00	5' offset = 15' from E Street	8.6	165.0	163.7 159.2
+50		7.2	166.4	166.0 161.5
20+00		5.7	167.9	165.2 162.7
+50		3.4	170.2	170.5 166.0
21+00		0.3	173.3	172.5 168.0
+40		+2.8	176.4	174.5 170.0

Contour Chaining - Bonita Pk.

From X

75

From Y. to start of Recline 104'

0+112

H.V.

6+64

H.V.

11+50

B.O.

15+75

H.V.

15+82

H.V.

~~X 20+70~~

26+40

Access

36+06

Bonita

39+50

B.O.

49+09

H.V. X

54+04

H.V.

66+29

Flange

Oct. 6 1949
Beeth
Rogers
Finney

Alvarado Water Plant - Elev. for Edge of Road
Cuts for Ditch

BM	1.49	537.88	536.39	
		7.94	529.94	Road Grade
		Last pin set by King		
		35'	C ₀₅₄	
		35'	C ₀₅₉	
		35'	C ₀₆₂	
		35'	C ₀₆₉	
		72'	C ₀₇₀	
		11'	C ₀₇₂	
		11'	C ₀₇₃	
		11'	C ₀₇₅	
		11'	C ₀₇₆	
		16'	C ₀₈₉ = 529.94	

	③ N	7.76	530.12	526.83	C ₃₂₉
0+00	② S	7.76	530.12	526.83	C ₃₂₉
0+15		7.57	530.31	526.08	C ₄₁₉
0+30		8.11	529.77	525.33	C ₄₂₄
0+38.6		10.06	527.82	524.90	C ₄₉₂

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BM.	1.82	538.21	536.39	
		8.27	529.94	C ₀₃₉
		Last pin set previous by ? South side going east		
		35'	C ₀₄₃	
		35'	C ₀₄₇	
		35'	C ₀₅₁	
		35'	C ₀₅₅	
		35'	C ₀₅₉	
		17'	C ₀₆₁	
		11'	C ₀₆₂	
		11'	C ₀₆₃	
		11'	C ₀₆₄	
		11'	C ₀₆₅	
		11'	C ₀₆₆	
		16'	C ₀₆₇	
		35'	C ₀₇₁	
		35'	C ₀₇₅	
		35'	C ₀₇₉	
		35'	C ₀₈₃	
		11 1/2'	C ₀₈₉	

FEB 25 1949

77

CONTOUR CHAINING ALONG

End Δ 65+51.1
AV 65+50.1

BONITA PIPE LINE 4" AV

65+44.9

SW. Road 64+24.5

E. Road 57+26.5

4" AV 53+26.5

4" AV 48+31.7

B.O. 39+25.7

E. Corridor Road 35+80.2

Access 31+15

Access 26+16

4" AV 15+65.2

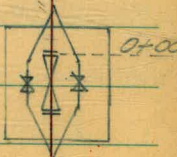
4" AV 15+58.6

11+83.2

TRESTLE 10+85

4" AV 6+51

4" AV 0+11.70

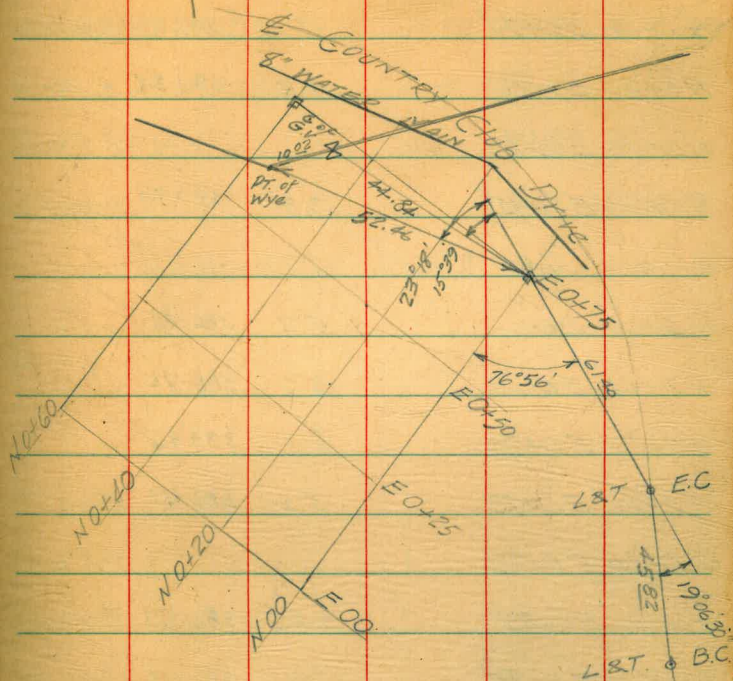


MUIRLANDS PIPELINE EXTENSION
PUMPING PLANT SITE
GRID ELEVATIONS

H	12.95	402.05	389.10	
N00	F00	8.8	393.25	
N00	F0+25	5.1	396.95	
N00	F0+50	3.2	398.85	
N00	F0+75	8.36	393.69	Edge Pavt
N00	F0+82		393.69	8" Water
N00	F0+84	8.44	393.61	8" Pavt
N00	F0+94	8.78	393.27	Edge Pavt
<hr/>				
N0+20	F00	11.0	391.05	
N0+20	F0+25	7.6	394.45	
N0+20	F0+50	5.4	396.65	
N0+20	F0+75	10.6	391.45	
N0+20	F0+77.5	10.85	391.20	Edge Pavt
N0+20	F0+85.5			8" Water
N0+20	F0+87	10.74	391.31	8" Pavt
N0+20	F0+96	10.89	391.16	Edge Pavt
<hr/>				
N0+40	F00	13.6	388.45	
N0+40	F0+25	10.8	391.25	
N0+40	F0+50	8.2	393.85	
N0+40	F0+75	12.5	389.55	

FEB. 11 1909
Beatty
Baker
Rogers

85.



2/11/49

86

	202.05			
N 0+40 E 0+77 ²	13.03	389.07	Edge Pavt.	
N 0+40 E 0+88 ⁵	13.21	388.84	♀ Pavt.	
N 0+40 E 0+83			8" Water	
N 0+40 E 0+95 ²	13.31	387.74	Edge Pavt.	
IP (exc) 2.94	392.06	12.93	389.12	
N 0+60 E 00	5.2	386.86		
N 0+60 E 0+25	3.3	388.76		
N 0+60 E 0+50	2.1	389.96		
N 0+60 E 0+75	5.65	386.41	Edge Pavt.	
N 0+60 E 0+78 ⁵			8" Water	
N 0+60 E 0+83 ⁹	5.45	386.61	♀ Pavt.	
N 0+60 E 0+92 ⁵	5.45	386.61	Edge Pavt.	
CK IP	2.96	389.10	= 389.10	
			CRS 14 FEB 49	
IP	5.26	394.36	389.10	
N 00 E H 23 ⁵	2.45	391.91	♀ 16" WATER	
N 0+20 E 0+99 ²	7.21	387.15	♀ 16" WATER	
N 0+40 E 0+78 ⁵	10.40	383.96	♀ 16" WATER	

394.36

N 0+60 E 0+65 ²	11.98	382.38	♀ 16" WATER
Top Pipe, Point of Wye.	11.19	383.17	
Top G.V. ♀ of pipe	10.57	383.79	
			CRS 15 FEB 49

Miss
Leonard

El Monte P.L. Sec. II

Notes 1/21/47 Grades for finish ground

237 496 367.93 362.97

238 361.2 6.7

150 361.2 6.7

239 361.2 6.7

150 361.8 6.1

240 362.0 5.9

1345 362.8 5.1

Vicinity of El Capitany 238 to 240 to 235

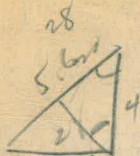
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MONROE MADISON

F.H. RAVEN + "F"

6x46?



GRADE 145.78
134.50
11.28

Rod 9.24

1.9 47

(1278)

28
22
142.96
2.82
145.78

16
16
29.84
17.16
9.4
436.4

Drop .08 down

Spk in SW pole.

Rod & Neyes

11.89

ie to
as of
mple
43.9.

5.8
 5.5
 5.1
 61.40 To EC
 159.6
 194
 179.0
 425
 2013
 560
 12500
 195
 75
 6720
 37
 6688
 6588
 560 90
 35
 591 1650
 95
 525 2045
 1.41
 50
 91.6
 6793.54
 580
 1.89
 5562
 105
 105 3/4
 46.
 Please Return to
 City of San Francisco Dept.
 Room 2900
 Telephone 1
 5 + 2650
 39.40
 5265.90

DISTANCES FROM CENTER OF ROADWAY FOR CROSS-SECTIONING.
 Roadway 16 feet wide. Side Slopes 1 on 1 1/2
 For Single Track Embankment.

H	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	H
0	8.0	8.2	8.3	8.5	8.6	8.8	8.9	9.1	9.2	9.4	0
1	9.5	9.7	9.8	10.0	10.1	10.3	10.4	10.6	10.7	10.9	1
2	11.0	11.2	11.3	11.5	11.6	11.8	11.9	12.1	12.2	12.4	2
3	12.5	12.7	12.8	13.0	13.1	13.3	13.4	13.6	13.7	13.9	3
4	14.0	14.2	14.3	14.5	14.6	14.8	14.9	15.1	15.2	15.4	4
5	15.5	15.7	15.8	16.0	16.1	16.3	16.4	16.6	16.7	16.9	5
6	17.0	17.2	17.3	17.5	17.6	17.8	17.9	18.1	18.2	18.4	6
7	18.5	18.7	18.8	19.0	19.1	19.3	19.4	19.6	19.7	19.9	7
8	20.0	20.2	20.3	20.5	20.6	20.8	20.9	21.1	21.2	21.4	8
9	21.5	21.7	21.8	22.0	22.1	22.3	22.4	22.6	22.7	22.9	9
10	23.0	23.2	23.3	23.5	23.6	23.8	23.9	24.1	24.2	24.4	10
11	24.5	24.7	24.8	25.0	25.1	25.3	25.4	25.6	25.7	25.9	11
12	26.0	26.2	26.3	26.5	26.6	26.8	26.9	27.1	27.2	27.4	12
13	27.5	27.7	27.8	28.0	28.1	28.3	28.4	28.6	28.7	28.9	13
14	29.0	29.2	29.3	29.5	29.6	29.8	29.9	30.1	30.2	30.4	14
15	30.5	30.7	30.8	31.0	31.1	31.3	31.4	31.6	31.7	31.9	15
16	32.0	32.2	32.3	32.5	32.6	32.8	32.9	33.1	33.2	33.4	16
17	33.5	33.7	33.8	34.0	34.1	34.3	34.4	34.6	34.7	34.9	17
18	35.0	35.2	35.3	35.5	35.6	35.8	35.9	36.1	36.2	36.4	18
19	36.5	36.7	36.8	37.0	37.1	37.3	37.4	37.6	37.7	37.9	19
20	38.0	38.2	38.3	38.5	38.6	38.8	38.9	39.1	39.2	39.4	20
21	39.5	39.7	39.8	40.0	40.1	40.3	40.4	40.6	40.7	40.9	21
22	41.0	41.2	41.3	41.5	41.6	41.8	41.9	42.1	42.2	42.4	22
23	42.5	42.7	42.8	43.0	43.1	43.3	43.4	43.6	43.7	43.9	23
24	44.0	44.2	44.3	44.5	44.6	44.8	44.9	45.1	45.2	45.4	24
25	45.5	45.7	45.8	46.0	46.1	46.3	46.4	46.6	46.7	46.9	25
26	47.0	47.2	47.3	47.5	47.6	47.8	47.9	48.1	48.2	48.4	26
27	48.5	48.7	48.8	49.0	49.1	49.3	49.4	49.6	49.7	49.9	27
28	50.0	50.2	50.3	50.5	50.6	50.8	50.9	51.1	51.2	51.4	28
29	51.5	51.7	51.8	52.0	52.1	52.3	52.4	52.6	52.7	52.9	29
30	53.0	53.2	53.3	53.5	53.6	53.8	53.9	54.1	54.2	54.4	30
31	54.5	54.7	54.8	55.0	55.1	55.3	55.4	55.6	55.7	55.9	31
32	56.0	56.2	56.3	56.5	56.6	56.8	56.9	57.1	57.2	57.4	32
33	57.5	57.7	57.8	58.0	58.1	58.3	58.4	58.6	58.7	58.9	33
34	59.0	59.2	59.3	59.5	59.6	59.8	59.9	60.1	60.2	60.4	34
35	60.5	60.7	60.8	61.0	61.1	61.3	61.4	61.6	61.7	61.9	35
36	62.0	62.2	62.3	62.5	62.6	62.8	62.9	63.1	63.2	63.4	36
37	63.5	63.7	63.8	64.0	64.1	64.3	64.4	64.6	64.7	64.9	37
38	65.0	65.2	65.3	65.5	65.6	65.8	65.9	66.1	66.2	66.4	38
39	66.5	66.7	66.8	67.0	67.1	67.3	67.4	67.6	67.7	67.9	39
40	68.0	68.2	68.3	68.5	68.6	68.8	68.9	69.1	69.2	69.4	40

Example—If point is 22.6 ft. above grade, how far should it be from center line to be a slope stake point? Ans. from Table 41.9. For same slopes but other widths of roadbed correct above figures by one-half difference in width of roadbed; thus in example above for 20 ft. roadbed distance will be 41.9 + (20 - 16) ÷ 2 or 2 ft. added to 41.9 = 43.9. For slopes of 1 on 1 see inside of front cover.