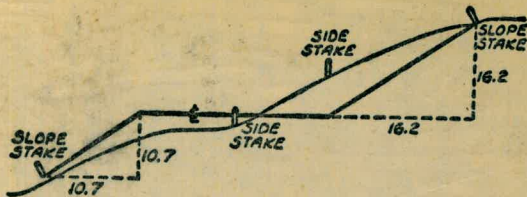


W 863



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										
1	1.00	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0
2	2.00	1.10	1.20	1.30	1.40	1.50	1.60	1.70	1.80	1.90	1
3	3.00	2.10	2.20	2.30	2.40	2.50	2.60	2.70	2.80	2.90	2
4	4.00	3.10	3.20	3.30	3.40	3.50	3.60	3.70	3.80	3.90	3
5	5.00	4.10	4.20	4.30	4.40	4.50	4.60	4.70	4.80	4.90	4
6	6.00	5.10	5.20	5.30	5.40	5.50	5.60	5.70	5.80	5.90	5
7	7.00	6.10	6.20	6.30	6.40	6.50	6.60	6.70	6.80	6.90	6
8	8.00	7.10	7.20	7.30	7.40	7.50	7.60	7.70	7.80	7.90	7
9	9.00	8.10	8.20	8.30	8.40	8.50	8.60	8.70	8.80	8.90	8
10	10.00	9.10	9.20	9.30	9.40	9.50	9.60	9.70	9.80	9.90	9
11	11.00	10.10	10.20	10.30	10.40	10.50	10.60	10.70	10.80	10.90	10
12	12.00	11.10	11.20	11.30	11.40	11.50	11.60	11.70	11.80	11.90	11
13	13.00	12.10	12.20	12.30	12.40	12.50	12.60	12.70	12.80	12.90	12
14	14.00	13.10	13.20	13.30	13.40	13.50	13.60	13.70	13.80	13.90	13
15	15.00	14.10	14.20	14.30	14.40	14.50	14.60	14.70	14.80	14.90	14
16	16.00	15.10	15.20	15.30	15.40	15.50	15.60	15.70	15.80	15.90	15
17	17.00	16.10	16.20	16.30	16.40	16.50	16.60	16.70	16.80	16.90	16
18	18.00	17.10	17.20	17.30	17.40	17.50	17.60	17.70	17.80	17.90	17
19	19.00	18.10	18.20	18.30	18.40	18.50	18.60	18.70	18.80	18.90	18
20	20.00	19.10	19.20	19.30	19.40	19.50	19.60	19.70	19.80	19.90	19
21	21.00	20.10	20.20	20.30	20.40	20.50	20.60	20.70	20.80	20.90	20
22	22.00	21.10	21.20	21.30	21.40	21.50	21.60	21.70	21.80	21.90	21
23	23.00	22.10	22.20	22.30	22.40	22.50	22.60	22.70	22.80	22.90	22
24	24.00	23.10	23.20	23.30	23.40	23.50	23.60	23.70	23.80	23.90	23
25	25.00	24.10	24.20	24.30	24.40	24.50	24.60	24.70	24.80	24.90	24
26	26.00	25.10	25.20	25.30	25.40	25.50	25.60	25.70	25.80	25.90	25
27	27.00	26.10	26.20	26.30	26.40	26.50	26.60	26.70	26.80	26.90	26
28	28.00	27.10	27.20	27.30	27.40	27.50	27.60	27.70	27.80	27.90	27
29	29.00	28.10	28.20	28.30	28.40	28.50	28.60	28.70	28.80	28.90	28
30	30.00	29.10	29.20	29.30	29.40	29.50	29.60	29.70	29.80	29.90	29
31	31.00	30.10	30.20	30.30	30.40	30.50	30.60	30.70	30.80	30.90	30
32	32.00	31.10	31.20	31.30	31.40	31.50	31.60	31.70	31.80	31.90	31
33	33.00	32.10	32.20	32.30	32.40	32.50	32.60	32.70	32.80	32.90	32
34	34.00	33.10	33.20	33.30	33.40	33.50	33.60	33.70	33.80	33.90	33
35	35.00	34.10	34.20	34.30	34.40	34.50	34.60	34.70	34.80	34.90	34
36	36.00	35.10	35.20	35.30	35.40	35.50	35.60	35.70	35.80	35.90	35
37	37.00	36.10	36.20	36.30	36.40	36.50	36.60	36.70	36.80	36.90	36
38	38.00	37.10	37.20	37.30	37.40	37.50	37.60	37.70	37.80	37.90	37
39	39.00	38.10	38.20	38.30	38.40	38.50	38.60	38.70	38.80	38.90	38
40	40.00	39.10	39.20	39.30	39.40	39.50	39.60	39.70	39.80	39.90	39
41	41.00	40.10	40.20	40.30	40.40	40.50	40.60	40.70	40.80	40.90	40
42	42.00	41.10	41.20	41.30	41.40	41.50	41.60	41.70	41.80	41.90	41
43	43.00	42.10	42.20	42.30	42.40	42.50	42.60	42.70	42.80	42.90	42
44	44.00	43.10	43.20	43.30	43.40	43.50	43.60	43.70	43.80	43.90	43
45	45.00	44.10	44.20	44.30	44.40	44.50	44.60	44.70	44.80	44.90	44
46	46.00	45.10	45.20	45.30	45.40	45.50	45.60	45.70	45.80	45.90	45
47	47.00	46.10	46.20	46.30	46.40	46.50	46.60	46.70	46.80	46.90	46
48	48.00	47.10	47.20	47.30	47.40	47.50	47.60	47.70	47.80	47.90	47
49	49.00	48.10	48.20	48.30	48.40	48.50	48.60	48.70	48.80	48.90	48
50	50.00	49.10	49.20	49.30	49.40	49.50	49.60	49.70	49.80	49.90	49
51	51.00	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.

53.72
53.72
10744
71.15
3629

71.15
53.72
1748
57.5

6
35
80'¹⁴
66+64.30
30.69
07+00.99

07+01
77.38
23.20

045
32
1330
1040

50
1730
3270

66+64.30
23.23
66+41.68

37 37
48 48
148 296
1628148

80.47 50
101.34 30
80.47

046
132
60
576

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

INDEX

GENEVA, Hanover to Winston, 8" A.C. WATER ✓ 71-72

POE ST, LOCUST TO EVERGREEN, WAT. METS ✓ 73
alice

REDWOOD VILLAGE DRAIN LINE EXTENSION ✓ 74-76
alice

Profile Proposed 16" Pl
Rock St Redwood Village Tank

Sta	+	H	-	Elev
				-4505-
				328.26
				-6.12
	0.37	327.51		322.14
	3.52	330.17	0.86	326.65
0+00			8.3	321.9
+50			6.0	324.2
+89 ^{FL}			5.9	324.3
+89			5.90	324.2
1+00			6.0	324.2
+50			5.8	324.4
2+00			5.5	324.7
+50			5.0	325.2
+79 ^{FL}			4.6	325.6
3+00			4.6	325.6
+50			4.9	325.3
4+00			5.4	324.8
+50			6.3	323.9
5+00			7.4	322.8
+40	2.18	324.10	8.25	321.92

West
Williams
VarenLake

6-26-58

1

Copper Tank @ College Ave + University

Top F.H SW Cor Rock + Access Rd

@ 16" College Ave Pl

4.5 RT +6.1 To Flow Line
Top South edge Sewer MH

4.71 +8.2 To Flow Line
Top Sewer MH South edge 4.9 RT

+6.0 To Flow Line
Top Sewer South edge 3.8 RT

5+50	324.10	2.5	321.6
+72		3.4	320.7
6+00		3.6	320.5
+50		4.6	319.5
7+00		5.7	318.4
+44 ⁵		6.74	317.4
+50		6.85	317.3
+96		9.95	315.2
8+00		8.0	316.1
+05 ⁵		8.58	315.6
+50		9.1	315.0
+80		9.7	314.4
+86 ²⁵ Δ		8.4	315.7
9+00		9.0	315.1
	13.10	327.31	9.89 314.21
+50		11.4	315.9
10+00		10.1	317.2
+50		4.8	322.5
	12.88	340.02	0.17 327.14

2

+8.3 To Flow line
Top Grate storm drain 10⁰ Lt

Top South Sewer MH 8⁰ Rt

Top Grate storm Drain 21⁰ Rt

Top Grate storm Drain 13⁰ Lt

end of AC Paved rock st.
on local pile of Dirt

Turn on end of curb rock st North Eb

6.1	13.7
10.1	10.0
5.0	11.0
10.1	10.0
3.1	3.7
10.1	10.0
	10.9
	50.0
	50.0
	1.7
	50.0

11+00	340.02	11.9	328.2
+50		3.3	336.7
12.92	352.43	0.41	339.61
12+00		6.0	346.4
12.77	364.67	0.53	351.90
+50		8.2	356.5
13.08	377.57	0.18	364.49
13+00		8.4	369.2
12.75	390.30	0.02	377.55
+50		8.7	381.6
12.59	402.37	0.22	390.08
14+00		11.8	398.6
+50		5.3	397.1
T.P 12.55	414.72	0.20	402.17
15+00		9.1	405.6
+50		0.6	414.1
12.70	427.23	0.19	414.53
16+00		7.1	420.1

10.1
10.24

10.1
10 RT

9.0
10 RT

3.3
10.14

2.7
10 RT

2.4
10 RT

5.8
10.24

5.7
10 RT

5.6
10 RT

10.7
12.24

8.2
6.24

6.5
6 RT

5.3
9 RT

8.3
9

9.6
5.24

7.1
6 RT

5.7
7 RT

5.6
10 RT

8.0
7.24

9.2
4.24

6.9
8 RT

4.6
9 RT

4.3
10 RT

11.1
7.24

12.1
3.24

9.9
8 RT

8.3
10 RT

5.8
7.04

4.1
7.5 RT

2.1
10 RT

0.3
15

8.8
6.14

7.0
8.5 RT

5.8
9.0 RT

4.6
15 RT

0.5
5.14

+2.0
9 RT

+3.2
10 RT

7.4
5.14

5.5
10 RT

4.4
11

3.2
14

Profile Proposed 16" RL
 Oak St Redwood Village
 School

Sta	+ HI	-				
16+17	422.23	4.3	422.9			
+20		2.3	424.9			
12.89	439.89	0.23	427.00			
+50		8.4	431.5		$\frac{10.1}{10.11}$	$\frac{7.0}{10.21}$
12.81	452.06	0.64	439.25			
17+00		8.0	444.1		$\frac{9.3}{10.21}$	$\frac{6.7}{10.21}$
12.77	464.45	0.38	451.68			
+20		9.0	455.5		$\frac{9.9}{10.21}$	$\frac{8.0}{10.21}$
+75 POT		5.3	459.2			
8.44	471.64	1.25	463.20			
18+00		8.5	463.1		$\frac{9.0}{10.21}$	$\frac{7.5}{10.21}$
+24 ²⁴		6.22	465.4			
7.46	477.89	1.22	470.42			
		4.06	473.82	- 0.88		
			472.94	= 472.94		

Proposed Tank on Spike

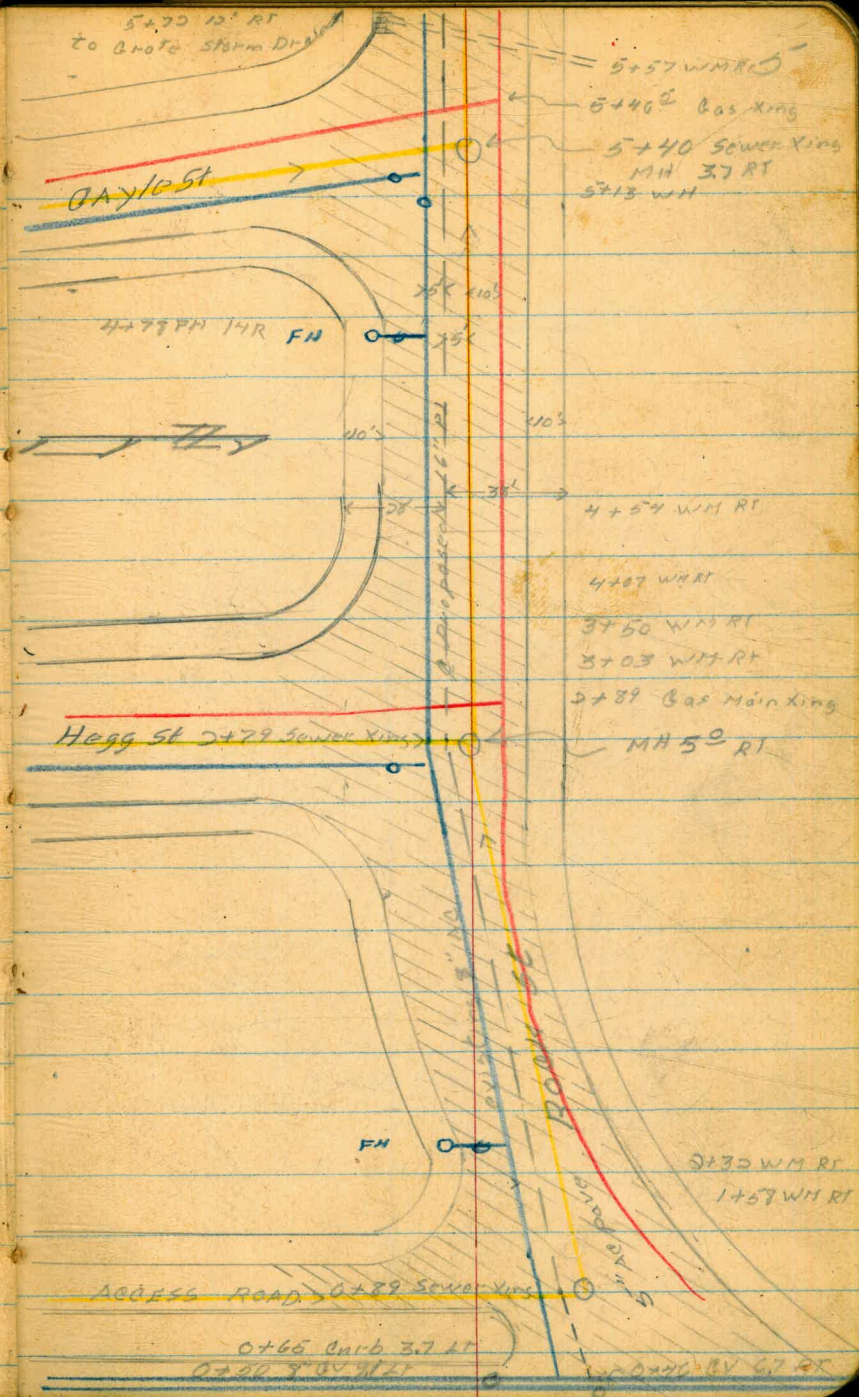
BM Has Rod 1" of Concrete added to top

2+80³⁴ EC

2+79⁶⁴ Δ 16° 04' 56" RT

0+89⁵¹ Δ 6° 00' 00" RT

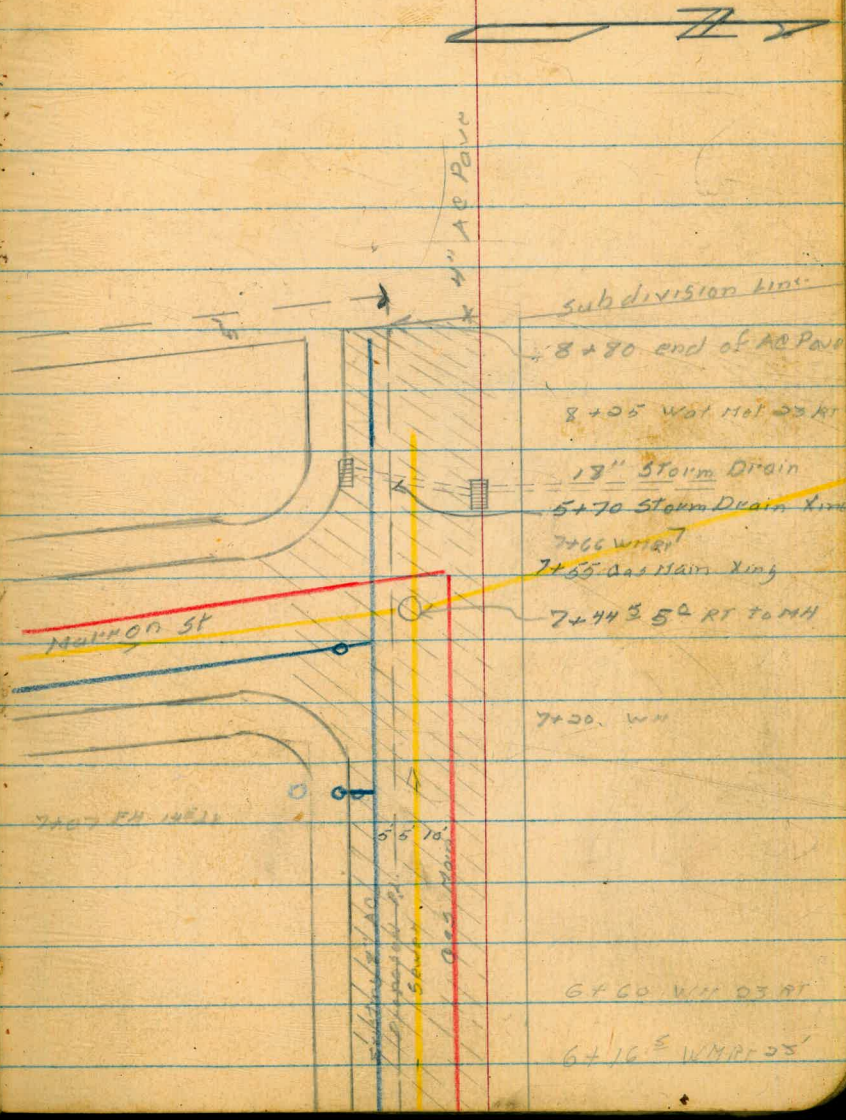
0+50 Existing 16" PL



West
Williams
Varonakis

6-26-53

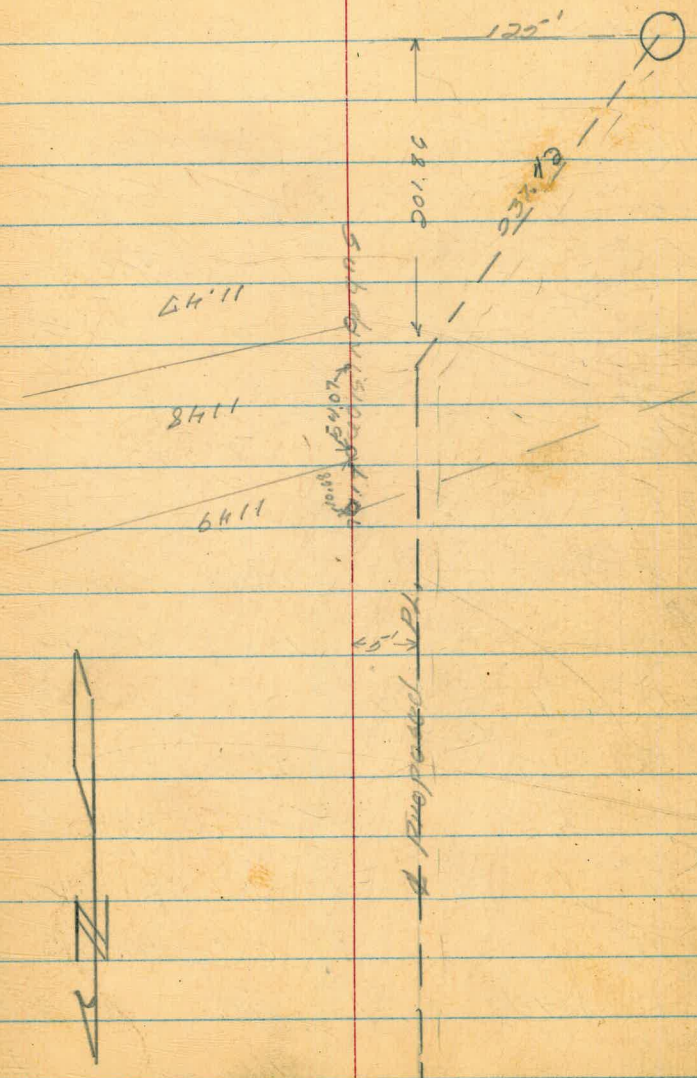
8+80 ⁷⁵ Δ $70^{\circ} 28' 45''$ Lt.



18+37⁴² Proposed Tank
~~18+34²⁶~~ Proposed Tank

Revised
1-13-53

16+00 $31^{\circ} 46' 03''$
 $30^{\circ} 15' 20''$



Proposed 10" PL Rock St
60th to University Ave

Sta	+	H _i	
	1.96	316.17	314.21
9+00.2		2.7	313.5
+50		4.7	311.5
+67.2		6.3	309.9
10+00		9.4	306.8
+50		11.0	305.2
11+00		11.4	304.8
+01		13.1	303.1
+50		11.9	304.3
+32		10.6	305.6
+50		11.6	304.6
12+00		11.8	304.4
+17	12.96	317.76	11.37 304.80
+50		13.2	302.6
13+00		8.4	309.4
+25		4.7	313.1
+50		0.5	317.3
	1.47	324.16	007 317.69
13+62		4.99	319.17

West
Williams
Yaronfakis

6-08-53

8

See page #2
TBM on end of North Ch line Rock St

2.9	2.6
10.11	10.11
5.3	3.8
10.11	10.11
6.2	5.1
10.11	11.11
10.2	9.2
10.11	10.11
11.1	10.8
10.11	10.11

Bottom of Creek

" " "

Top of Creek Bank

11.8	11.5
10.11	10.11
11.6	11.5
10.11	10.11

+7.4 to Flow line 24" Sewer

Top south edge sewer MH

+5.9 to Flow line 6" Sewer 60"

Top of ch on University

Sta	+	H ₁	-	
13+62 ²		324.16	5.82	318.3
13+73			4.81	319.4
	4.57	322.98	5.95	318.41
			0.88	322.10
Revised Proposed 16" PL				
	1.70	320.87		319.17
12+17 ²⁰			16.21	304.5
+50			16.4	304.5
13+00			9.8	311.1
+25			6.8	314.1
+31			5.6	315.3
+40			1.0	319.9
+50			1.0	319.9
+54 ¹⁰			1.36	319.5
+64 ²⁵			1.74	319.1
+64 ⁵⁰			1.09	319.8
			1.70	319.17

+ 8.0 to Flow line
 Cutter + Top of grate of Storm Drain
 & PV on University
 + 6.12 = 328.22 = 329.28 College + Univ
USBS &

Top of old line see page 8

$\frac{6.2}{11}$	$\frac{8.1}{7}$	$\frac{11.1}{10.81}$
	$\frac{6.9}{10.11}$	$\frac{6.9}{10.81}$

bottom of Bank
 $\frac{4.2}{6.81}$ $\frac{4.5}{10.81}$
 Top of Bank

Top of Ob
 bottom of Ob

Top of old line

Q Profile Redwood
 Village, Rook St Pipe Line
 Revised 16+00 to 18+37⁴²

West
 Williams -
 Yaronfakis

7-13-53

11

See Page 3

TP. rock

	10.84	425.37		414.53
	12.44	437.53	0.29	425.09
16+50			5.8	431.7
	12.72	449.15	1.10	436.43
17+00			4.8	444.4
	12.12	460.99	0.58	448.87
+50			5.1	455.9
	10.41	470.30	1.10	459.89
18+00			6.8	463.5
+87 ⁵²			4.29	464.0
			4.84	465.46

$\frac{6.2}{10.1}$ $\frac{4.9}{10.2}$

$\frac{6.3}{10.1}$ $\frac{3.7}{10.1}$

$\frac{5.5}{10.1}$ $\frac{4.6}{10.1}$

$\frac{7.2}{10.1}$ $\frac{6.2}{10.1}$

Q Tonk

465.42 old Q nail

Redwood Village Pl.
Re-Revision Sta 12+17³⁰ to 13+76²
9-1-53

See p 10 for Detail

West
Williams
Varonakis

Clear + Warm

12

	0.87	320.04		319.17
12+17 ³⁰	(3+30 on dr)	15.5	304.54	
+50		15.2	304.8	
+80		14.1	305.9	
13+00		10.0	309.4	
+25		7.4	312.6	
+50		3.5	316.5	
+50		7.4	312.6	
+65 ^E		1.1	318.9	
+65 ^E		1.6	318.4	
+76 ^E		0.7	319.3	
		0.88	319.16 =	319.17

Top Ob on Univ

15' Rt to Top 3' storm Drain

Top of Ob

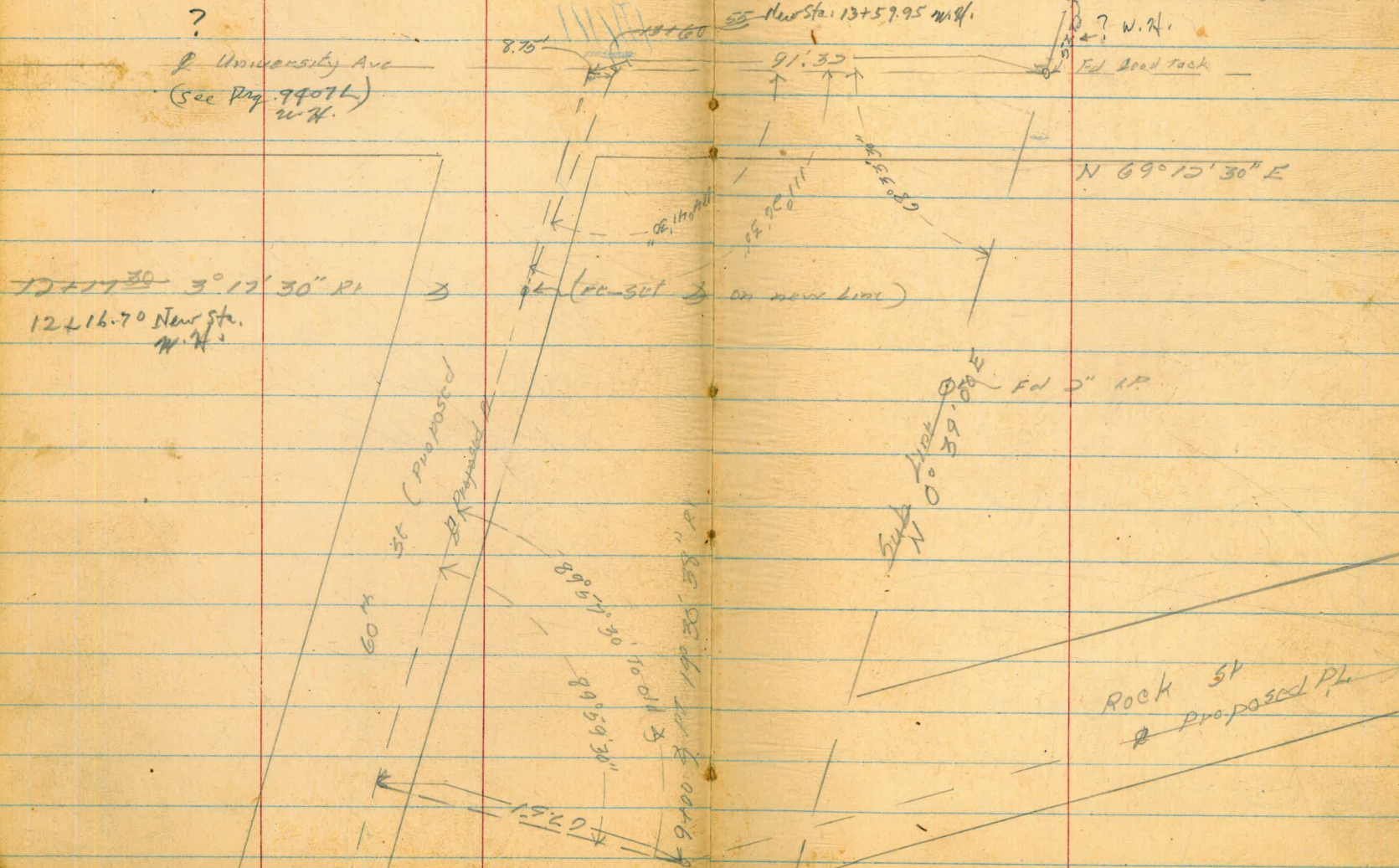
Butter-

University St Pl.

Ties at 60th
 + University

West
 Williams
 Varonakis
 Kemp

13.



CATALINA BLVD.

PT. LOMA RES. TO PT. LOMA TANK

PROPOSED 12" WATER

REVISED ALIGNMENT

SEE P.D. 781 pg. 41.

JULY 21 1953

BEATTY
SHOREY
MARTELL
ALEXANDER

1/2" I.P.I.
L.S. 2317

35' Spike

14

D17390T

71+24 3" RT TP

70+29 000 Xing

69+63 2" RT WM

69+44 Begin of Drive

69+43 000 Xing



71+21 WM 3" RT

70+37 Begin 17' 4" AD Drive

70+43 TP 3" RT P433

68+46 3" RT TP #30535H

68+30 3" Sign 6" RT

ROSECROFT LANE

68+07 Water Xing

67+738

67+27 3" Stop Sign

41' 11" 1/2" RT

35'

2" I.P. L.S. 2212
NE Cor. PL 103

67+17 3" Begin 3" Brick walk

66+96 3" WM 10' AC

66+80 and 18' AC Drive

66+7738 3" PT. 58° 21' RT

AC Driveway

65+88 TELE DUCT Xing

66+48 edge AC Pav

65+80 3" Xing

66+41 2 1/2" LT 20' 10" QV

3" AC Pav

3" AC Pav

66+44 12" PL Xing

65+76 3" Xing



65+76 3" Xing

65+76 3" Xing

65+76 3" Xing

65+76 3" Xing

65+76 3" Xing

65+76 3" Xing

65+76 3" Xing

65+76 3" Xing

65+76 3" Xing

65+76 3" Xing

65+76 3" Xing

65+76 3" Xing

65+76 3" Xing

65+76 3" Xing

67+738

203 LT 1/2" I.P. L.S. 2201
NEly Cor. Rosecroft Lane
& Catalina Blvd.

66+7738 3" PT

58° 21' 00" RT

66+41 69 AN

66+64.30 BK

80° 47' 30 RT

65+825 3" RT

20° 30' RT

2500 RT

65+71 POT

3" PT

SEE PAGE 19
FOR NEW ALIGNMENT

(CONTINUED FROM P.D. 781 pg. 41)

Sta	Dist RT or LT	Dia	Remarks
76+54	4° RT	19"	Oystrus
+60	40° RT	19"	
+62	70° RT	Fire Hyd	8"
+66	50° RT	5"	
+67	40° RT	23"	
+70	40° RT	15"	
+80	4° RT	10"	
+84	3° RT	30"	
+95	2° RT	30"	Palm Tree
77+02	4° RT	WM	
+00			Begin 12" DIRT Drive
+05	6' LT	to Conc Cb	
+17	6' LT	to Conc Block wall	
+28	3° RT	to 30" Palm	
+43	4° RT	19" Oyp	
+47	5°	8"	
+50	4°	19"	
+53	4°	10"	
+59	4°	9"	
+60	5°	10"	
+63	4°	TP D 17384T	
+68	4°	8"	
+74	4°	10"	
+78	4°	11"	
+81			Funse Xing
+82	2° LT	to 7" Oyp	
+82	40° RT	Band Men	
	50° RT		

Sta	Dist RT or LT	Dia	Remarks
74+54	5° RT	6"	
+57	6° "	5"	
+60	5° "	7"	
+66	5°	9"	
+68	2° RT		TP 309537H
+69	5° RT	6"	OYP
+81	40° RT	18"	"
+87	40° RT	15"	"
+96	5° RT	9"	
+99	4° RT	13"	
75+05	5° RT	9"	
+07	5° RT	13"	
+11	5° RT	7"	
+13	4° "	15"	
+17	5° "	7"	
+20	5° "	8"	
+23	5°	6"	
+26	4° "	25"	
+28			Gas Xing
+31			WM 6° RT
+46	4° RT	18"	
+50	4° RT	15"	
+55	4° RT	8"	
+61	4° RT	8"	
+67	40° RT	12"	
+73	3° RT	21"	
+80	3° RT	21"	
+98	4°	17"	
76+06	5° RT	10"	
+10			TP 3° RT 309538H
+12	5°	9"	
+16	2° RT	19"	
+18	5°	9"	
+20	4°	14"	
+28	40° RT	15"	
+33	5° RT	6"	
+39	5°	10"	
+42	6°	8"	
+46	5°	11"	

"CATALINA BLVD," F.B. 863, Page 14

71+50	3E RT	24"	Cyprus
71+52	5-0 RT	To end of Adams Fence	
+61	4E RT	0yo	Tree 3
+66	4E RT	12"	Cyprus
+70	5E RT	16"	Cyprus
+73	3E RT	8"	Cyprus Leaves even
+95	3E RT	24"	Cyprus
77+13	4" RT	10"	Cyprus
77+18	4" RT	10"	"
+25	3" RT	30"	"
+50	4E RT	31"	"
+65	4" RT	12"	"
+77	5" RT	18"	"
+90	Wire Mesh Fence Xing	4" RT	
+92	TP 3E RT	4 309536H	
+94	WM	5" RT	
73+90	Broken oil + Dirt drive		
+71	4" RT	10"	Cyprus
+74	5" RT	14"	"
+46	4" RT	17"	"
+52	5" RT	4"	"
+55	4" RT	10"	"
+55	4 RT	7"	"
+61	4 RT	8"	"
+67	5" RT	6"	"
+80	5" RT	7"	"
+85	4" RT	16"	"
+88	5" RT	13"	"
+91	5" RT	14"	"
74+19	4E RT	20"	"
+24	5" RT	7"	"
+30	5" "	9"	"
+35	5"	7"	"
+40	5"	13"	"
+44	5"	7"	"
+48	4"	12"	"
+51	4"	10"	"

List of Trees F.B. 863
Catalina Blvd Page 14

Sta	RT	Cyprus	Sta	RT
28+00	4" RT	16"		
+63	4E RT	14"		
+94	4" RT	10"		
69+67	4" RT	10"		
+12	5" RT	10"		
+36	3E RT	17"		
+62	3E RT	18"		
70+62	4" RT	16"		
+70	4E RT	12"		
71+06	3" RT	19"		

Catalina Blvd

Q Profile

	5.54	309.27		303.73
65+82 ⁵				6.59
66+00				6.35
66+97				6.51
66+50				6.59
66+41 ⁸⁸ Ahead				
66+84 ³⁰ Back				6.60
67+01				
66+77 ³⁸				5.68
67+00				5.44
67+50				4.69
68+00				3.55
FP	7.01	314.23		2.05 307.22
68+50				7.49
				6.83
69+00				4.81
69+35 [±]				4.04
69+50				3.19
70+00				1.12
FP	11.65	0.35 325.53		0.35 313.88
70+50				10.93
71+00				8.07
71+50				5.88
72+00				3.78
72+50				0.67

2nd Alignment

16

7-22-53

chis p End of Curb 66+34 92-RI End of Pav

Edge of paving

1 1/4" I.P.

TP		325.53	0.20	325.33
73+00	11.73	331.06	8.07	
73+50			5.42	
74+00			1.68	
TP	11.88	348.51	0.43	336.63
74+50			2.13	
75+00			6.08	
75+35			3.15	
75+50			1.92	
TP	11.27	353.70	0.08	348.43
76+00	10.28	352.85	10.13	342.57
76+50			7.76	
77+00			5.12	354.7
77+50			2.70	357.2
77+81 ^{TP}			1.20	
TP	10.28	370.78	0.05	359.80
78+00			11.95	358.8
78+06			12.33	
78+40			10.61	
78+55			2.22	361.6

Angle Pt Δ

Edge oil road

Edge oil road

370.78

79+00			7.53	363.3	
79+34			6.35	364.4	Edge of oil road
79+50			6.02	364.8	
79+55			5.98	364.8	
80+00			7.02	366.8	
80+50			2.58	368.2	
81+00			1.78	369.0	
TP 81+50	?	12.55	382.62	0.64	370.14
82+00			11.67	371.0	
82+50			10.70	372.0	
83+00			10.00	372.7	
83+50			9.00	373.7	
83+90			8.24	374.5	
84+45			6.29	376.4	Edge oil road
84+50			6.16	376.5	
84+93			5.89	376.8	Edge oil road
85+00			4.76	377.9	
85+50			2.43	380.3	

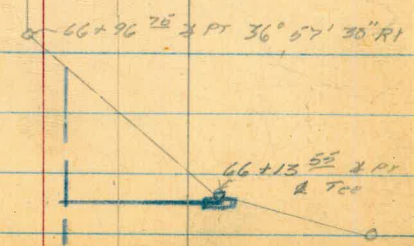
382.67

7	85+93 ¹⁸		2.92	380.3	Δ PT.
7	85+96		2.20	380.5	
7	TP	2.17	384.67	0.19	382.50
75			1.50	383.17 = 383.16	

80
80
81
81
82
82
83
83
83

A. Catalina Blvd

84	66+93 ⁴³ AH				
84	66+96 ⁷⁵	Δ PT BK	36° 57' 30" RT		
84	66+13 ⁵³	Δ PT	45° 00' 00" RT	Δ Tcc	
85					
85	65+82 ⁶	Δ PT	21° 25' 30" RT		



Catalina Blvd
Revised Alignment

78+64.13 AH. (35' BK from Sta 79+00) 1/20/54 BEATH

78+08.13 AH

79+56.82 BK Δ $1^{\circ}48'15''$

77+00 Δ $22^{\circ}30'00''$ LT

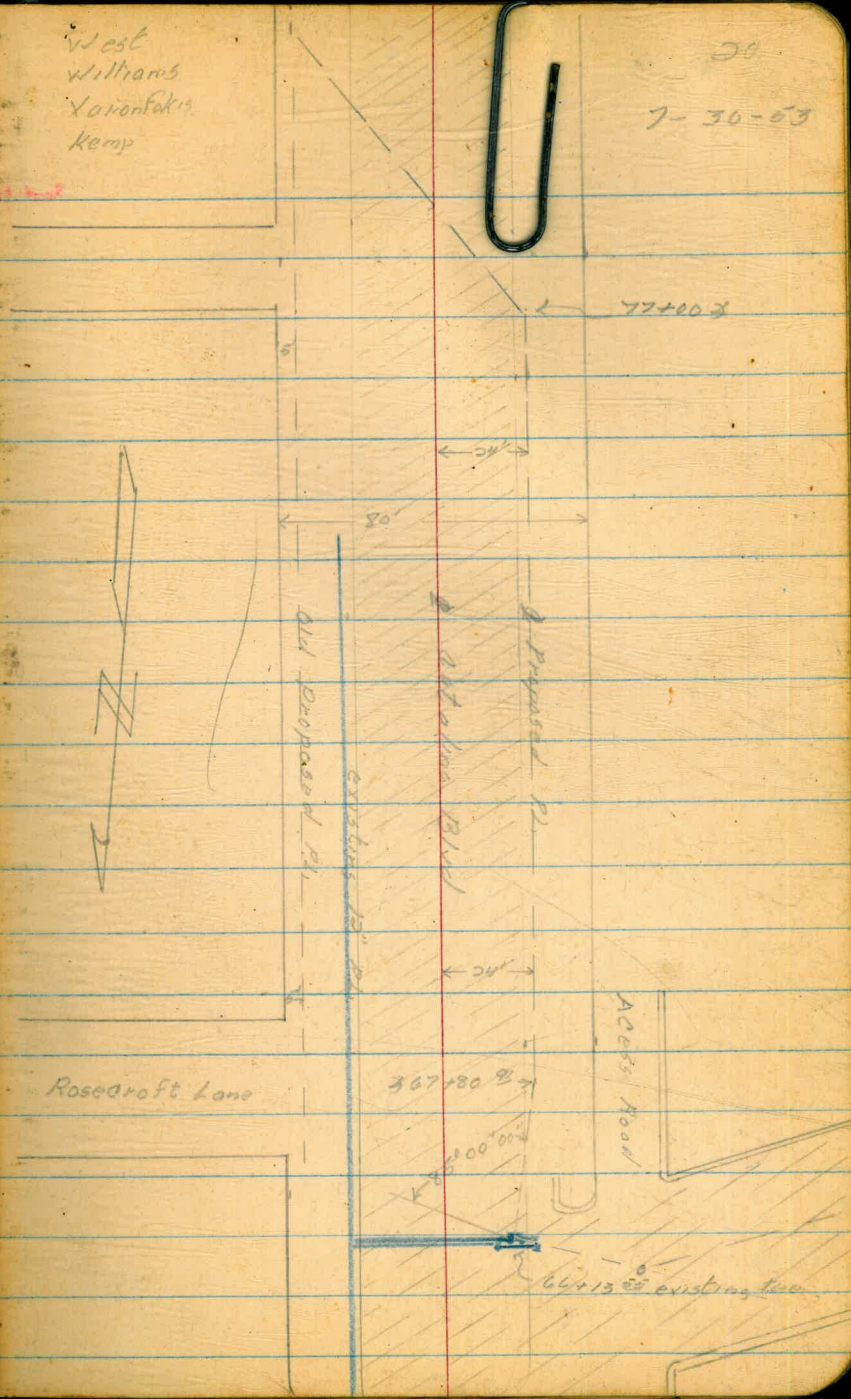
67+80.91 $3^{\circ}05'00''$ LT

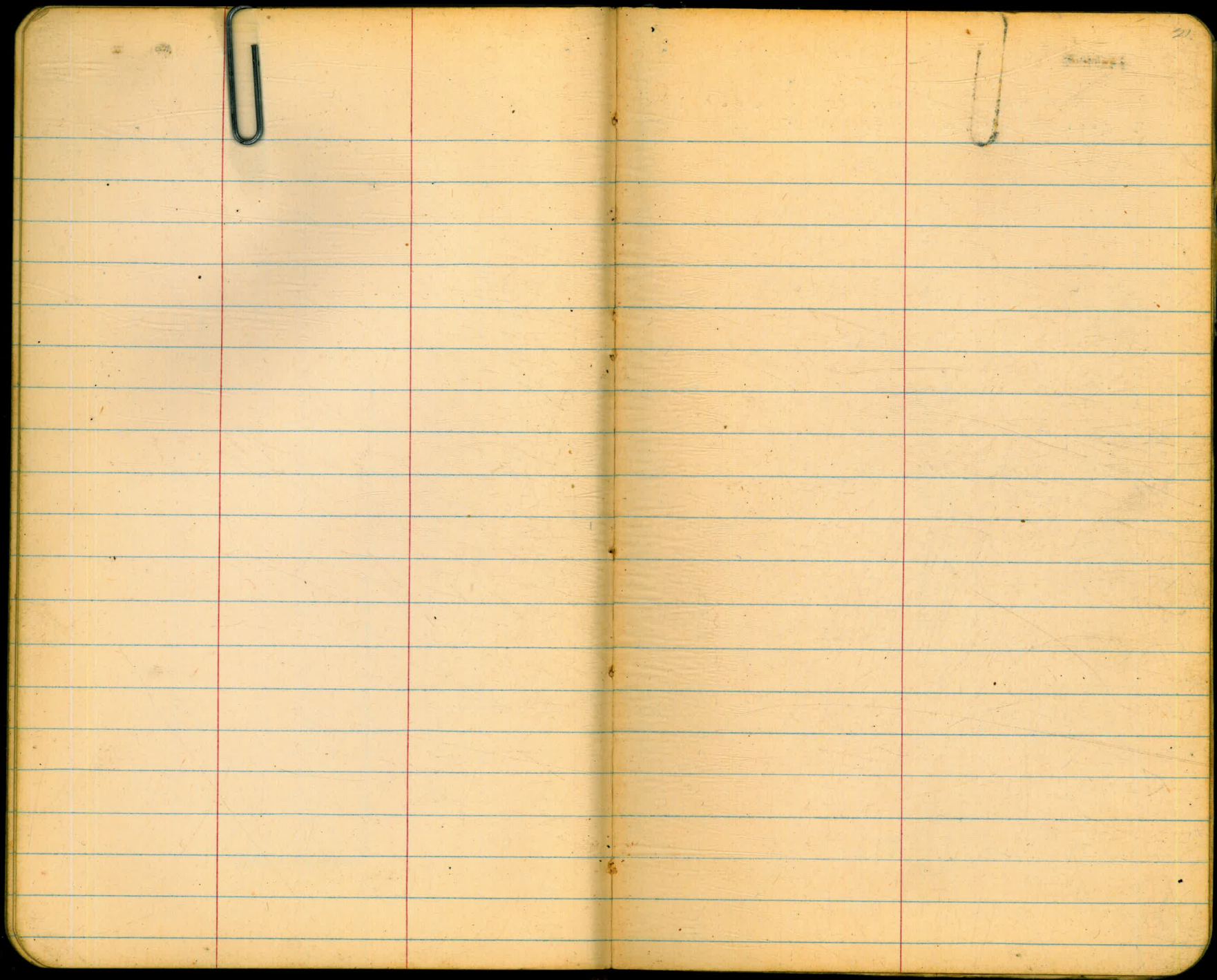
66+13.55 $85^{\circ}00'00''$ RT

West
Williams
Yoronfak's
Kemp

20

7-30-53





"CATALINA", F.B. 863, Page 20

"CATALINA", F.B. 863, Page 20

"CATALINA", F.B. 863, Page 20

Sta	Dist	Description	
66+36	11.0	2.5 PALM	30"
66+40	10.0	P.P. #450	
66+65	10.0	2.0 PALM	24"
66+96	8.5	2.4 PALM	28"
67+25	8.0	1.5 CyPRUS	18"
67+30	8.5	2.5 "	30"
67+34	9.0	1.0 "	12"
67+38	8.5	0.9 "	10"
67+40	9.0	1.0 "	12"
67+41	8.0	1.5 "	18"
67+55	7.0	1.0 "	12"
67+56.5	6.9	0.7 "	8"
67+58.5	5.5	1.5 "	18"
67+61	6.7	0.8 "	9"
67+65	6.0	1.0 "	12"
67+68.5	6.8	0.9 "	10"
67+80.91	2.5	P.P. #444	
67+84.91	E	4x4 Bus STOP SIGN	
67+85.91	2' LT.	4x4 ST. SIGN	
67+86	6.4	1.3 CyPRUS	15"
67+90	6.0	0.5 "	6"
67+92	6.0	2.5 "	30"
67+94	6.0	0.7 "	8"
68+00	5.5	P.P. #562397H	
68+19	5.0	3.0 CyPRUS	36"
68+23	5.0	1.7 "	20"
68+40	6.8	1.0 "	12"
68+42	5.0	1.6 "	19"
68+44	6.0	0.8 "	9"
68+60	3.0	P.P. #440	
68+78	6.0	1.0 CyPRUS	12"
68+85	5.7	0.8 "	9"
68+86	6.0	1.3 "	15"
68+90	5.8	1.0 "	12"
68+92	6.0	0.3 "	
68+97	5.4	1.6 "	
69+00	5.3	1.3 "	
+02	5.6	0.4 "	
+08	6.0	0.5 "	
+09.5	5.6	0.7 "	
+12	5.6	1.0 "	
+23	5.0	1.4 "	
+27	6.0	1.5 "	

STA	Dis. RT.	DESCRIPTION	
69+33	5.0	2.5 CyPRUS	
+41	6.0	1.5 "	
69+62	6.0	1.7 "	
+68	5.8	1.8 "	
+71	6.0	1.4 "	
+74	5.3	1.3 "	
+78	6.0	1.7 "	
70+11	5.6	2.0 "	
+12	2.0	P.P. #430	
+27	6.5	1.7 CyPRUS	
+33	6.0	1.0 "	
+36	7.0	0.6 "	
+38	2.5	D. MAN	
+43	5.0	1.9 CyPRUS	
70+76	6.0	1.3 "	
+78	5.8	0.4 "	
+80	5.7	1.8 "	
+84.5	6.0	1.5 "	
+86.5	5.8	0.7 "	
+88.5	6.0	1.0 "	
+98	6.0	0.8 "	
71+07	6.0	0.8 "	
+10.5	6.0	1.4 "	
+13	5.6	1.4 "	
+14.8	6.7	0.6 "	
+16.9	6.0	0.8 "	
+19	6.5	1.3 "	
+39	5.3	1.0 "	
+45	5.7	1.5 "	
+47	5.6	2.0 "	
+50	6.3	0.8 "	
+53	6.2	1.0 "	
+86	6.0	2.2 "	
+89	5.6	1.9 "	
+92	5.7	1.4 "	
72+10	5.0	1.4 "	
+18	5.6	1.5 "	
+29	5.6	1.5 "	
+31	5.5	1.8 "	
+43	5.8	2.0 "	

STA	Dis. RT.	DESCRIPTION	
72+74	8.0	P.P. 477612H	
+86	6.8	2.0 CyPRUS	
73+06	6.0	0.8 "	9"
+14	6.3	2.0 "	
+18	6.0	1.2 "	
+20	5.3	1.2 "	
+33.5	6.0	0.5 "	
+37	5.5	1.5 "	
+41	5.5	1.8 "	
+46	5.7	1.2 "	
+49	6.3	1.0 "	
+55	7.0	0.7 "	
+58	7.0	1.0 "	
+62	6.5	1.1 "	
+65	6.0	2.7 "	
+70.3	3.0	BEGIN 43' 6" TILE DRAIN	

CATALINA BLVD. PIPE LINE
 PROPOSED 12" WATER
 REVISED ALIGNMENT, JOHN ST
 TO GARDEN LANE FROM FB. 781 pg 39-41

Aug. 10, 1953
 DEBTTI
 MARTELL
 ALEXANDER

32+10⁷⁰ X.P.T. 67°30' LT

31+20⁷⁰ X.P.T. 89°46' RT.

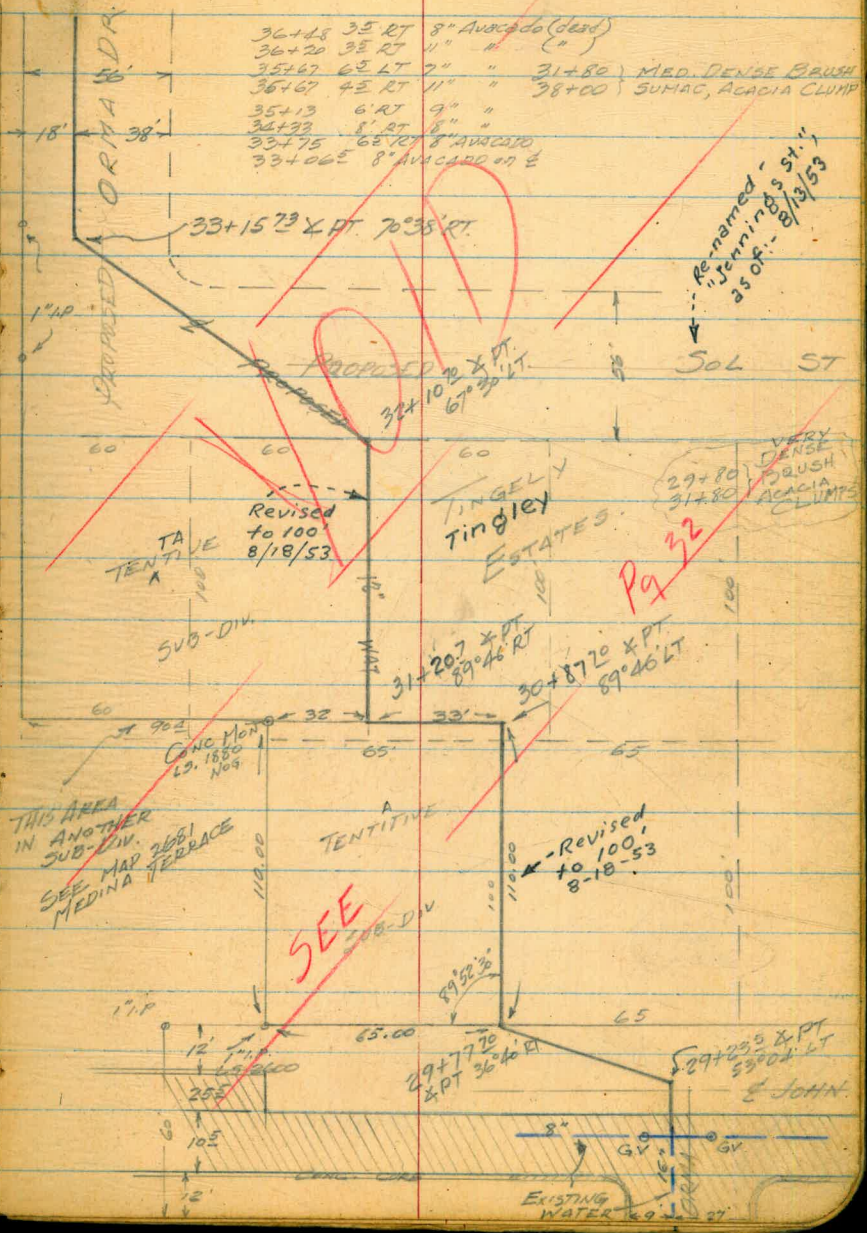
30+87⁷⁰ X.P.T. 89°46' LT

29+77⁷⁰ X.P.T. 36°40' RT

29+23⁵⁰ X.P.T. 53°04' LT.

VOID
SEE
 pg 32
 THIS AREA
 IN ANOTHER
 SUB-DIV.
 SEE MAP
 MEDINA TERRACE

(CONT'D FROM FB. 781 pg 39.)



CATALINA BLVD PIPELINE
(CONT'D)

40+02.91

48°33' LT

38+68.30

POT

(LT 49.26 TO SHINER
41°49'30" RT 98.73 TO SHINER
& LOMALAND ST (?))

38+26.35

X PT

48°01'30" ✓ BEATH, 9/16/53
48°00' RT

38+14.35

POT

(89°57'30" LT 118.0 to 3/4" RT)

3/4" RT

8" A.C.
6" WAT
E LOMALAND ST

3/4" RT

VOID
SEC P9 32

37+15.73

X PT

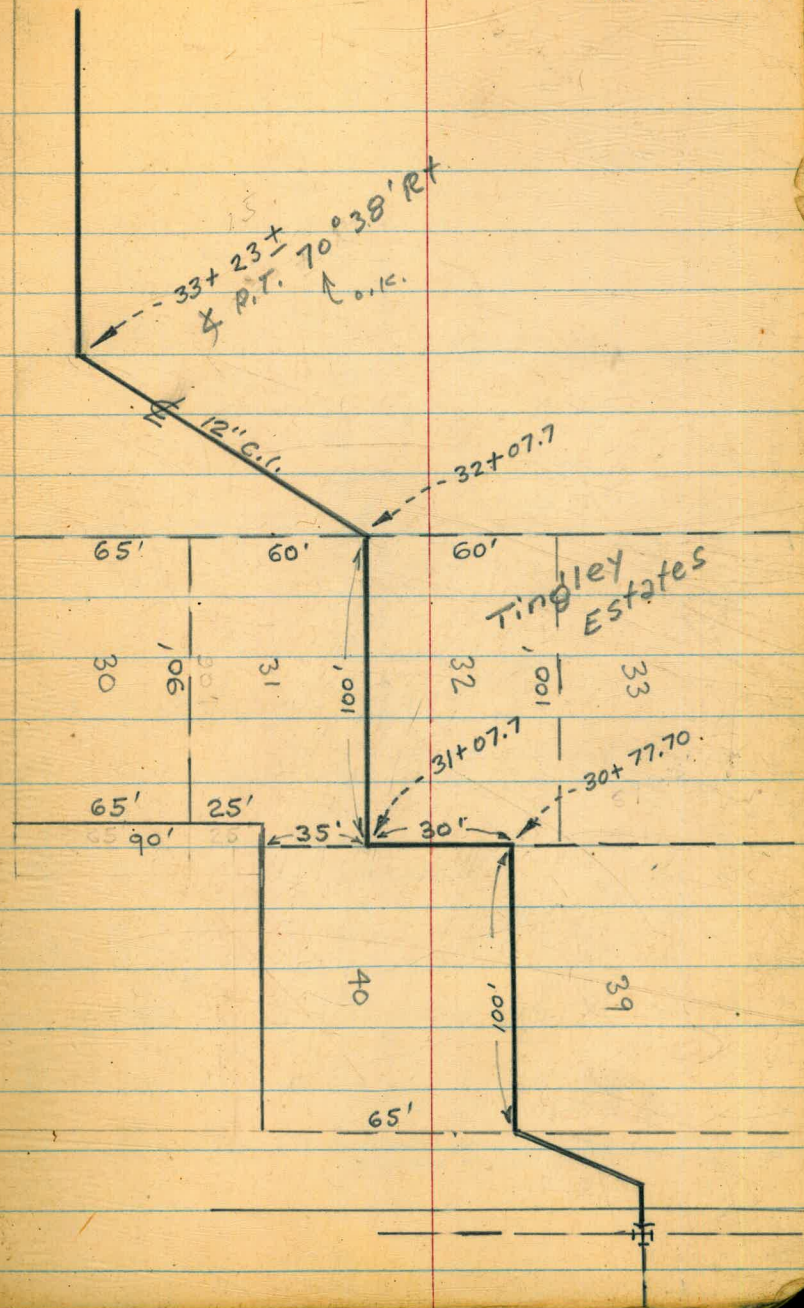
70°38' RT

SEE
MAP 2643
COLONIAL MANOR

2" RT

Rocky
Rm. 602

REVISED: - Page 22,
F.B. #863.



CATALINA BLVD. PIPELINE
(Cont'd.)

8/11/53

574993!

- 13'

22'

24

3/16" MILD
PROP. LINE
57466

Dirt Road



54+00 9' LT 29' RT
EUCALYPT. TREE LINE

53+87 End 1" oil
2' LT 26' RT

53+32 Conc. ORN LAMP POST 9' LT

53+00 Edge 1" oil E

52+50 1" oil 11' LT

52+08.80 4" W
11' 40' RT

6" CONC CURB
16" PALM

4" WATER

51+68 NOT X109

Edge 1" oil Pav. 51+50 35' LT 14.5' RT

32' LT 51+46 12" x 12" x 6" Wood Post

51+35 X RT

11' 15' LT

51+31 7' LT Elect. Box

51+46 6" Wood Grd Post in
6" PIPE
FIRE
SPRINKLER
50114 11' RT INDICATOR
1" Elect. Cable E1 325

49+96 35' LT
ELECT. BOX

PEPPER TREES

1" OIL
PAVT.

Beam 1" oil
End 1" AC

1" AC
PAVT.

48+50 1" AC PAVT

52+08.80

11° 40' RT

51+35

X RT

11° 15' LT

8/12/53

26

CATALINA BLVD
 & PROFILE
 PROPOSED 12" PIPELINE
 (OF REVISED ALIGNMT)
 (CONTINUED FROM FB 781 PG. 49.)

11

5.71 301.32 295.61

29+13.18 & Next

29+22.5	X PT	5.6	295.7
+36		5.9	295.4
+50		1.9	299.4
+77.70	X PT	4.0	297.3
30+00		4.3	297.0
+50		5.3	296.0
+89.70	X PT	7.0	294.3

Top of Slope

Top of "

29+80 (Begin) } Very Dense BRUSH, ACACIA CLUMPS
 31+80 END }

12

0.93 295.51 6.74 294.58

31+00		2.0	293.5
+20.71	X PT	3.6	291.9
+50		5.1	290.4
CK TBM		6.29	289.22 = 289.20
32+00		6.8	288.7
+10.70	X PT	7.1	288.4
+50		10.1	285.4

Conc. Man 33' Ely of 31+20.71

VOID
 see pg 35

13

2.00 284.57 12.94 282.57

33+00		3.3	281.3
+15.23	X PT	4.3	280.3

33+06.5 8" Avocado on

8/2/53

27

284.57

~~284.57~~
282.29

33+50		4.8	279.8
34+00		5.7	278.9
+50		5.0	279.6
35+00		4.5	280.1
+50		3.6	280.97
36+00		2.0	282.6
IP	6.02	289.43	1.16 283.41
+50		4.3	285.1
37+00		1.7	287.7
IP	9.41	291.31	0.53 288.90
+50		7.0	291.3
38+00		2.3	296.0
+26.35 RT		0.50	297.8
ck IPM.		1.45	296.86 = 297.01
IP	13.19	311.50	0.00 298.31
38+43		12.5	299.0
+46		12.61	298.9
+50		12.15	299.4
+68.30 (Loma land St)		9.21	302.3

33+75 6.5 RT 8" Avocado

34+33 8 RT 8" Avocado

35+13 6 RT 9" Avocado

36+67 { 4 RT 11" Avocado
6.5 LT 7" "

36+20 3.5 RT 11" dead Avocado

36+48 3.5 RT 8" "

37+23 3 RT 14" } Comber-
37+38 1.5 LT 15" } wood traces

37+42 7 RT 1" West Fence

38+24 9 RT } 26" Palm Tree
38+34 6 LT } RT

3/4" IR prep Cor 5 LT 39+13

orig Alignment FB 781-52

Edge 1" dessert mix oiled road

CATALINA BLVD PIPELINE

(CONTD)

8/12/53

28

	311.50		
39+00		5.8	305.7
P	13.37	324.74	0.13 311.37
+50		12.4	312.3
40+00		5.8	318.9
4029' X PT		5.34	319.4
+50		1.6	323.1
P	7.75	332.48	0.01 324.73
41+00		6.78	325.7
+50		5.26	327.2
42+00		4.73	327.8
+50		4.92	327.6
43+00		5.80	326.7
+50		6.70	325.8
44+00		2.68	324.8
+50		8.80	323.7
+70		9.02	323.5
45+00		9.1	323.4
SET TBM		3.44	329.04
+50		8.8	323.7

39+10 7' LT Edge 1" oil

39+50 55' LT Edge 1" oil

39+98 Underground Elect
CONDUIT40+02.9 95' RT Edge 1" oil
32' LT " 1" oil

40+42.5 625 King 60° SKEN

40+43 45' LT To edge of
2' x 2' Conc Cover
EXCHANGE BOX
ELECTRICITY41+72 102' LT To edge of
2' x 2' ELECT
Box43+00 15' LT
15' RT Edge 1" oil

43+50 Rd to RT 45° C

44+53 9' LT Edge Elect Box

44+58 10' RT 15" Pepper Tree

44+70 End 1" oil

44+70.5 1' RT 6" Post in pipe
WOOD GUARD POST

to first step to porch of Admin. Bldg., next to Bldg.

CATALINA BLVD
(CONT'D)

8/12/53

29

		332.28		
3	46+00	6.92	331.27	8.13 324.35
4	+50			5.6 325.7
	47+00			4.7 326.6
4	+50			3.9 327.4
	48+00			3.9 327.4
	+50			4.03 327.2
4	49+00			4.55 326.7
4	+11			4.70 326.6
	+50			5.07 326.2
4	50+00			5.43 325.8
	+50			5.43 325.8
4	51+00			4.88 326.4
	+35			3.80 327.5
4	+50			3.02 328.3
	+68.5			2.93 328.3
	52+00			2.80 328.6
4	+08.80			2.50 328.8
5	JET TBM	10.09	339.44	1.92 329.35
	+50			9.77 329.67

45+93 7.5 LT Elect Box

46+00 13.6 LT Papper
11.8 RT Tree line

47+93 5.5 LT Elect Box

48+50 Begin 1" AC
7.5 LT, 9.5 RT

49+11 End 1" AC
Begin 1" Oil

49+96 3.5 LT Elect Box

50+14 11.8 RT Sprinkler Val
7.2 RT WAT. Line

51+31.5 7.5 LT Elect Box
22x22 Top
1- Crossing 2.5 RT X
2- To Ndr

623
325.04 Elev of Cable
Xing.

51+46 { 6" post in pipe 1.5 RT
post 1.5/26' 3.5 LT

51+50 Edge 1" oil 3.5 LT WAT

51+68.5 Water Line Xing.

on lower curb of circle

inter's in BK Tang.

Edge 1" oil 11' LT

2.9
31.93
6.1

CATALINA BLVD PIPELINE
(CONT'D)

8/12/53

39

339.24

53400		8.5	330.94
+50		8.2	331.24
54400		2.2	332.24
+50		5.8	333.64
55400		5.0	334.44
+50		3.8	335.64
56400		1.9	337.54
P	12.13	0.37	339.07
+50		10.6	340.6
57400		7.9	343.3
+35		5.9	345.3
+50		5.7	345.5
+66		5.4	345.8
57+99 ^{3'} B.C.		4.7	346.5
58400		4.7	346.5
SET TBM		0.00	
+25		4.3	346.9
+50		3.8	347.4
+75		2.2	349.0
①	5.67	0.22	350.98

Edge 1" oil on $\frac{1}{2}$

53+32 Conc. Orm. Light past 4th LT

53+87 End 1" oil 26' RT

54400 9th LT, 7th RT
Tree line

57+66 Prop line Xing

13' LT, 22' RT Tree Line

NW Cor Top Step 20' RT 58400

58+61 3rd LT. Euc Clump

Top 3" Blow off 30' RT 58+75

CATALINA BLVD PIPELINE

(CONT'D)

8/12/53

31.

356.65

59+00 6.3 350.35

23 22
5 5

+25 5.8 350.85

31 56
5 5

+50 4.5 352.15

41 44
5 5

+75 4.2 352.45

59+89.55 4.5 352.15

60+00 4.8 351.85

+50 6.4 350.15

61+00 9.0 347.65

61+16 XPT 9.6 347.05

14' RT to 3" WATER

+50 12.1 344.55

61+34 28' RT 3" WATER

P 2.36 347.24 11.77 344.88

61+50 47' RT 3" Elbow
WAT. DOWN

61+98 6.3 340.94

61+95 13' LT 14" Pipe

62+00 7.1 340.14

61+93 12' RT Guy Anc.

62+06.25 BK 8.9 338.34

59+94.9 AH.

8.75 338.49 338.67

Nail in pipe 8' RT 60+00

CATALINA BLVD. PIPELINE
 Proposed 12" WATER
 REV. OF ALIGNMENT STA 29+235 TO

32+08.90 } BC
 } X PT 90° LT

30+78.90 } X PT 15°52'30" RT

29+76.28 } X PT 55°20' RT

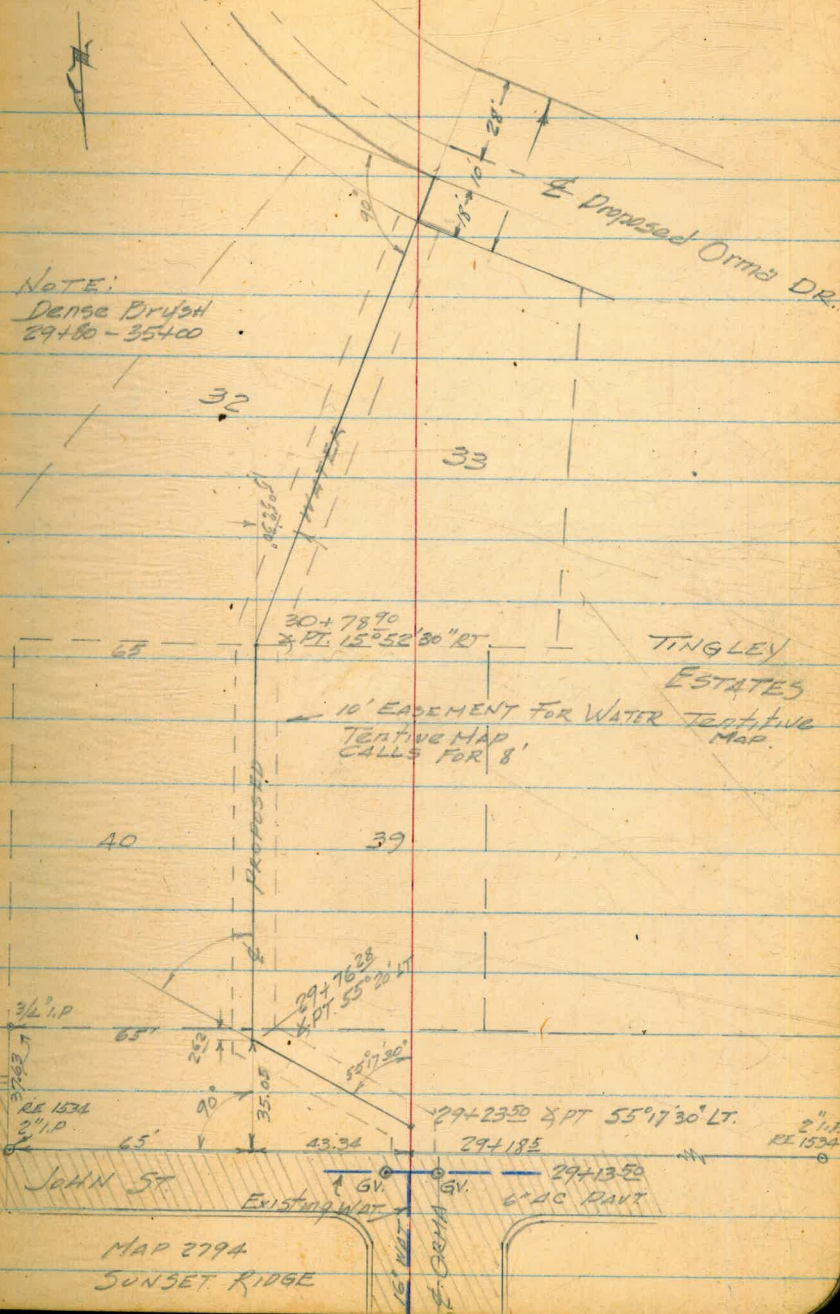
29+23.50 } X PT 55°17'30" LT

(CONT'D from FB 781 pg 29)

SEPT. 15 1933
 BEATHY
 SHORBY
 ALEXANDER

32.

NOTE:
 Dense Brush
 29+50 - 35+00



MAP 2794
 SUNSET RIDGE

CATALINA BLVD
(CONT'D)

9/15/53

33

(CONT'D ON PAGE 23)

35+35⁰³ AH.

35+16⁹⁴ BK

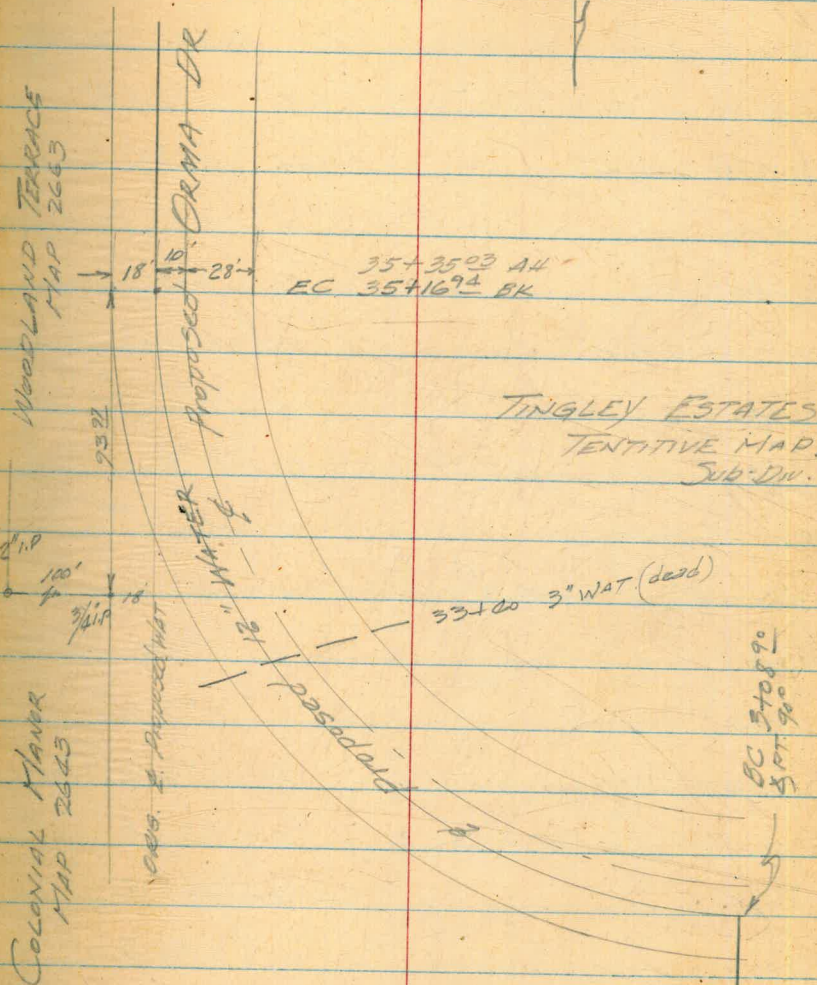
35+16⁹⁴ FC.

35+50
14 97
35+35⁰³

E pipe $\Delta = 74^{\circ}09'30''$ RT
R = 238.00
L = 308.00
7.222' per ft.

9362
93/93
93/97

32+08⁹⁰ BC.



CATALINA BLVD.
 REV. & Profile Sta 29+235-35+1693

9/16/53
 BEATTY
 SLOANER
 SLOANER

P	6.33	301.94	295.61	29+1315 & Nail
29+1850	Edge 6" AC. Pavt	6.28	295.66	
29+235	X PT	6.2	295.7	
+36		6.6	295.3	
+50		2.7	299.2	
29+7628	X PT	3.0	296.9	
30+100		4.9	297.0	
+50		5.8	296.1	
30+7890	X PT	7.0	294.9	
P (Top of Sid. Stk)	2.22	297.84	6.32	295.62
31+100		3.2	294.6	
+50		4.2	293.6	
32+100		5.0	292.8	
+0890	X PT & BC	5.0	292.8	
+50		7.9	289.9	
33+100		11.2	286.6	
P	1.25	286.07	13.02	284.82
+50		2.9	283.2	
34+100		4.4	281.7	

CATALINA BLVD
(CONT'D.)

9/16/53

35

286.07

34+50

6.3

279.8

35+00

5.9

280.2

35+16.94 BK EC

5.7

280.4

35+35.03 AH

CK 2 35+00 orig Survey

5.96

280.11 = 280.1

SET TOM

8.15

277.92

3/4" I.P. 35' RT 34+20'

⑧ STRS & GDS SET FOR 12°C.I. WAT.

CATALINA PIPELINE

JAN. 22, 1952

BEATTY
SHAW
HARTWELL
ALEXANDER

36

BM	5.84	256.66	②	250.82			B.P. SW. Cor. Varena & Catalina (PB 781 pg 45)
0-19	12" GV (By City)	N. ②	9.2	247.5	243.7		C38
0-19	" " " "	S. ②	9.2	247.5	"		C38
0+00		N. ②	7.7	249.0	243.6		C54
0+00		S. ②	7.4	249.3	"		C57
0+45		S. ②	4.9	251.8	243.5		C83
0+45		W. ②	4.7	252.0	"		C85
0+50			4.8	251.9	243.5		C84
1+00			6.0	250.7	243.3		C74
1+50			7.3	249.4	243.1		C63
1+70		N. ②	8.7	248.0	243.0		C50
1+70			7.6	249.1		A.F.H.	C61
1+75	OK ✓		7.8	248.9	243.0		C59
2+00			7.1	249.6	243.0		C56
2+50			2.7	254.0	249.7		C62
TP	12.57	269.16	0.09	256.37			
3+00	OK ✓		10.3	258.9	254.9		C40
3+50			5.1	262.1	260.2		C39
TP	12.72	281.70	0.18	268.98			
4+00			12.4	269.3	265.4		C39
4+50			7.2	274.5	270.7		C38
						BM	5.35 256.35 250.82
						2+00	6.8 249.6 243.0 C66
						2+125 - 11 1/4° BEND	5.9 250.5 243.0 C75
						2+25	4.7 251.7 245.5 C62
						2+375	3.6 252.8 247.6 C52
						2+50	2.4 254.0 249.2 C48
						2+625	1.2 255.2 251.0 C42
						2+75	0.0 256.4 252.3 C41
						Top of MTD	10.26 246.09
						2+09	
						Bot. of MTD.	11.61 244.74
						Top 3" steel	9.0 247.4

1/27/52

GRADE CHANGE DUE TO ELEV
of M.T.D. Being lower than
shown on plans.

Catalina Pipeline
 StK's & Grds Set For 12" C.I. Water

Jan. 22, 1954

37

4+7.5		281.70	ⓐ	5.0	276.1	272.2	C39
4+9.5	12x6 Tee			4.1	277.6	273.1	C45
5+0.0				4.0	277.7	273.3	C44
5+5.0				2.4	279.3	275.4	C39
6+0.0				0.3	281.4	277.6	C38
TP	11.18	272.81		0.07	281.63		
6+5.0				9.4	283.4	279.7	C37
7+0.0				7.1	285.7	281.8	C39
7+5.0				5.5	287.3	283.4	C39
8+0.0				5.0	287.8	284.0	C38
8+2.8				5.2	287.6	283.8	C38
8+31 ¹⁹	x Pt.	90° Varona		5.3	287.5	283.8	C37
8+31 ¹⁹	x Pt.	20° Moana		5.2	287.6	283.8	C38
8+5.0				5.0	287.8	283.6	C42
9+0.0				6.5	286.3	281.7	C46
9+5.0				8.1	284.7	279.8	C49
9+20				9.3	283.5	278.4	F.H. Tee C51
9+9.0				9.2	283.6		ⓑ F.H. C52
10+0.0				10.0	282.8	278.0	C48
TP				8.59	284.22 = 284.24		B.P.N.E. Com Moana & Santa Barbara
	10.14	274.38			284.24		" " " " " "
10+1.5	Gate Valve			11.59	282.8	278.2	C45 ±

Catalina Pipeline
 S.K.'s & Grd's. Set For 12" C.I. Water

Jan. 22, 1954

38

10+50	294.38	③ 11.5	282.9	278.8	C41
10+60 ²⁰ B.C.		11.1	283.3	279.4	C39
11+00		7.5	286.9	281.8	C51
11+50		3.6	290.8	285.8	C50
TP	12.67	307.05	0.00	294.38	
12+00		12.2	294.9	289.9	C50
12+50		8.2	298.9	293.9	C50
13+00		4.3	302.8	298.0	C48
13+50		0.7	306.4	301.4	C50
TP	2.33	309.10	0.28	306.77	
14+00		1.4	307.7	302.8	C49
14+50		1.0	308.1	303.2	C49
14+62		0.2	308.2	303.1	F.H. Tee C51
14+62		0.8	308.3		③ F.H. C52
15+00		1.2	307.9	303.0	C49
15+50		2.6	306.5	301.5	C50
16+00		4.3	304.8	299.7	C51
16+50		6.1	303.0	297.9	C51
17+00		7.9	301.2	296.1	C51
17+20 ¹⁵ F.C.		8.6	300.5	295.4	C51

Catalina Pipeline
 STK's & Grd's. Set For 12" C.I. Water

Jan. 22, 1954

37

1	17+50	302.10	9.7	299.4	294.7	C51
1	18+00		11.5	297.6	292.5	C51
1	18+50		13.2	295.9	290.8	C51
1	TP	3.35	229.76	12.69	226.41	City Emp. Disk S.E. Cor. Hill & Meana
1	18+75		5.2	294.6	290.8	C38
1	19+00		5.0	294.8	291.0	C38
1	19+TP		7.57	295.17	+	225.23 Sta. 18+50

1/26/54

① STK's & Grd's for 8" C.I. WATER ON LOMALAND
 & 12" C.I. FARU UNIVERSITY GROUNDS

1	TP	2.85	299.71		296.86	3/4" IR see pg 27 This Book
	37+50 = Existing GN					285.3 14.4 C
1	37+55 = 5' from GN	8.0	12.8	286.9	281.3	C52 ← 37+55
1	38+00		8.7	291.0	285.5	C52
1	38+50		4.9	292.8	290.2	C46
1	38+64.73 12x12x8 TFF	3.3	296.4	(291.4	AK C50	285.8 3.9
	TP 12.65 311.92	0.22	299.27	(291.2	AK C52	To Exist 12" A.C. 292.30 Bot. " 12" A.C. 291.20
1	39+07.39 BK } 45° Bend	10.9	301.0	295.5	C55	300.3 11.6 C
	38+83.74 AH					306.6 10.3
1	39+00		5.7	306.2	298.0	C82
1	TP 39+50	13.05	322.72	0.25	311.67	305.2 C63
1	40+02.9' 45° BEND			11.8	312.9	312.3 29 (12.4 + 50)
				5.5	319.2	311.4 C78
1	40+50		2.2	322.5	314.1	C84
1	TP	6.92	331.49	0.21	324.51	C80
1	41+00		6.4	325.0	317.0	C80
1	41+50		4.7	326.7	317.3	C94

306.6
10.3 38+90

305.9
6.2 39+07 (307.1
2.2 39+30)

CATALINA BLVD PL
 ⑧ STRS. E GROS for 12" C.I.

1/26/54

40

331.43

42+00 4.2 327.2 317.5 097

42+50 4.5 326.9 317.8 091

43+00 4.9 326.5 318.0 085

43+50 5.9 325.5 318.2 073

44+00 7.0 324.4 318.5 059

44+50 8.1 323.3 318.8 045

ck 70M.

2.41 329.02 = 329.02

on 1st step. Admin BURE See pg 28

45+00 7.9 323.5 319.0 045

45+50 7.4 324.0 319.2 048

46+00 7.56 332.31 6.68 324.75 319.3 055

46+50 6.6 325.7 319.4 063

47+00 5.7 326.6 319.5 071

47+50 5.0 327.3 319.6 077

48+00 4.7 327.6 319.7 079

TP 4.57 333.23 3.65 328.66

48+50 6.1 327.1 319.9 072

49+00 6.3 326.9 320.0 062

49+50 7.0 326.2 320.1 061

50+00 7.2 326.0 320.2 058

50+50 7.3 325.9 320.3 056

51+00 6.6 326.6 320.4 062

51+35 11/4" BEND 5.3 327.9 320.6 073

CATALINA BLVD
 STKS & GRDS for 12" C.I. WAT

1/26/54

41

333.23

OK TBM.		3.93	329.30 = 329.35	on Conc curb (See pg. 29.)
51+50		5.2	328.0	320.7 C73
51+80	12x8 CROSS	5.0	328.2	320.9 C73
52+00		4.9	328.3	321.0 C73
52+08 ⁸⁰	11 1/4 BEND	4.5	328.7	321.2 C75
52+50		3.7	329.5	322.3 C72
53+00		+0.6	333.8	323.7 C10' (on bank)
53+50	7.99	339.56	1.60	331.63 325.0 C69 (1/28/54)
54+00		7.1	332.5	326.4 C61
54+50		5.7	333.9	327.8 C61
55+00		5.1	334.5	329.2 C53
55+50		3.7	335.9	330.6 C53
56+00	12.16	349.79	1.93	337.63 332.6 C50
56+50		9.0	340.8	334.6 C63
57+00		6.0	343.8	336.6 C72
57+50		4.1	345.7	338.6 C71
57+99 ³¹	B.C.	3.0	346.8	339.8 C70
+25		2.6	347.2	340.4 C68
58+50		0.9	348.9	341.1 C78
+75	8.13	357.48	0.21	349.35 341.7 C92
59+00		5.9	351.6	342.4 C115
OK TBM		3.6	353.9	342.4 C115
59+25		6.55	350.93 = 350.98	Top 3" B0. See pg. 30.
59+50		1.5	356.0	343.0 C132
		2.6	354.9	343.6 C113

1/27/54

42

CATALINA BLVD

357.48

59+75		52	352.3	344.2	C81
59+88 ⁵⁵ E.C.		5.5	352.0	344.3	C77
60+00	AVA. CHAMBER	5.8	351.7	344.4	C72
60+50		7.5	350.0	342.7	C73
61+00		10.0	347.5	341.0	C65
61+16 & PT.		10.5	347.0	339.9	C71
TP	4.12 348.96	12.6	344.82		
61+50		4.6	343.4	337.0	C60
62+00		9.0	340.0	333.9	C61
62+06 ²⁵ 12" G.V.		10.3	337.7	333.5	C42
TBM		10.51	338.45 = 338.47		

NAIL IN POLE (W/ END GARDEN LANE)

⑧ STKS & GRDS, 12" C.I. CATALINA BLVD.

2/1/54

TBM	7.83	311.56	303.73		
66+ ¹⁸⁵ 135 G.V. (BY CITY)		8.5	303.1 + 298.6	C45	
66+45 B.O. BRANCH		7.6	304.0 - 298.8	C52	
66+75		7.2	304.4 - 299.0	C53	
67+00		6.7	304.9 - 299.7	C52	
67+50		4.6	307.0 - 301.1	C52	
67+80 ⁹¹ & PT.		4.0	307.6 - 301.9	C52	
68+00		3.4	308.2 - 302.4	C58	

CHISEL END OF CURB. SEE PG. 16. (also P. 781 pg. 57.)

3032 ←
8.4
0
GROUND LINE & RIDE3036
8.0
0
-0.43037
7.9
0
-0.23040
7.6
0
-0.9305.2
6.7
0
-1.5306.4
5.2
0
-1.2306.6
5.0
0
-1.6

CATALINA BLVD PL

2/1/54

23

311.56

Ground Line & PIPE

68+50			2.6	309.0	3038	C52	308.3		
TP	11.30	322.15	0.71	310.85			33		-0.7
69+00			11.0	311.2	3058	C56 C52	319.2		-1.0
69+50			9.7	312.5	3079	C46	311.8		-0.7
70+00			7.6	314.6	3100	C46	314.2		-0.4
70+50			5.1	317.1	3121	C47 C50	316.6		-0.5
71+00			2.5	319.7	3142	C48 C55	318.7		-1.0
TP	12.44	334.49	0.10	322.05			35		
71+50			12.0	322.5	3169	C48 C56	321.2		-1.3
72+00			9.7	324.8	3195	C48 C53	324.1		-0.7
72+50			7.4	327.1	3225	C47 C56 C46	326.8		-0.3
73+00			4.5	330.0	3255	C36 C45	330.2		+0.2
73+50			0.8	333.7	3285	C43 C52	333.1		-0.6
TP	12.52	346.82	0.19	334.30			14		
74+00			10.9	335.9	3315	C43 C44	336.1	73+755 } 4" A.C.	+0.2
74+50			6.4	340.4	3346	C52	339.1	74+08 } Drive	-1.3
75+00			3.1	343.7	3379	C52	342.7		-1.0
TP							41		
75+50	12.45	359.15	0.12	346.70	3409	C54 C58	346.6		-1.2
76+00			11.0	348.2	3438	C46 C44	348.3	75+89 } 4" A.C.	+0.1
76+50			7.2	352.0	3464	C52 C56	351.2	76+33 } Drive	-0.8
77+00	22 1/2° BEND		4.6	354.6	3490	C56	354.0		-0.6

GRADE REV. 2/5/54
to get sufficient cover

CATALINA BLVD P.L.

2/1/54

14

359.15

77+50			2.2	357.0	351.3	C57	357.1		+0.1
TP	11.17	370.23	0.09	357.06			358.8		-0.5
78+00			10.9	359.3	353.7	C56	361.4		+0.6
78+50			9.4	360.8	356.0	C48	361.8		+0.6
78+56 ⁸² BK.			9.0	361.2	356.3	C49	361.8		+0.6
78+64 ¹³ AH.								(See pg. 20)	
79+00			7.6	362.6	357.7	C49	363.2		+0.6
79+50			5.8	364.4	359.7	C47	364.7	79+34 } 4" AC	+0.3
80+00			3.8	366.4	361.8	C46	366.6	79+52.5 } DRIVE	+0.7
80+50			2.4	367.8	363.8	C40	368.0		+0.2
81+00			1.4	368.8	364.7	C41	368.9		+0.1
TP							370.2		-0.0
81+58	12.80	383.03	0.00	370.23	365.7	C45	370.2		-0.0
82+00			11.8	371.2	366.5	C47	370.9		+0.3
82+50			10.7	372.3	367.4	C49	371.8		-0.5
83+00			9.9	373.1	368.2	C49	372.6		-0.5
83+50			8.7	374.3	369.3	C50	373.5		-0.8
84+00			7.6	375.4	370.4	C50	374.8		-0.6
84+50			6.3	376.7	371.5	C52	376.4	84+38 } 4" A.C.	-0.3
85+00			5.7	377.3	372.6	C47	377.9	84+93.3 }	+0.6
85+50			4.1	378.9	374.7	C42	380.0		+1.1
85+75			3.3	379.7	375.8	C41 C32	379.5		+0.2

CATALINA BLVD PL.

2/1/54

25

383.03

85+83	AVA		3.2	379.8	375.9	C39	379.8	0.0
			① W.				377	
85+93 ¹⁸	16" TEE		3.0	380.0	376.0	C40	380.0	0.0
			① S.				376	
85+23 ¹⁸	16" TEE		2.5	380.5	376.0	C35		
TP	4.17	384.69	2.51	380.52				
			9.57	375.12				

2/1/54

86+10	9' RT	⑤ SW COR	3.62	381.07	374.13	C69		
86+10	8' LT	⑤ NW COR	3.35	381.37	374.18	C72		
86+25 ²³	8' LT	⑤ NE COR	9.45	375.24	374.33	C09		
86+25 ²³	8' LT	⑤ SE COR	9.88	374.81	374.39	C05		

P	5.25	385.77	4.17	380.52				
CK BM	2.19	385.32	2.64	383.13	= 383.16			

6/9/54

⑤ SW COR	3.87	381.45 (Floor)	- 373.8	C822, C765, C545, F115			
⑤ NW COR	3.95	381.37	373.85	C819, C752, C537, F123			
⑤ SE COR	3.75	381.57	374.00	C824, C757, C557, F103			
⑤ NE COR	3.76	381.56	374.00	C823, C756, C556, F104			
CK BM							

SUB GRD 373.33
 FLOOR - 374.00
 C 16" C.1 - 376.00
 TOP - 382.60

CATALINA BLVD PIPELINE
E Profile 85+93.18 to 86+50

7/1/56

46

TBM	2.16	385.32	383.16
85+93.18	2.27		5.1 380.2
+96			4.9 380.4
+98			2.5 382.8
86+04			1.6 383.7
+09			3.8 381.5
+18			6.8 378.5
+33			12.1 372.2
+38			14.0 371.9
86+50			14.3 371.0

Cond Man E of gate

ALLEY BLK 4
 ⑤ STK 5 & GROS FOR 6" A.C. WAT
 (NOR OF MYRTLE; EAST OF 27th)

JAN. 25 1954
 BEATTY
 SHOLEY
 MARTELL
 ALEXANDER

47.

B.M	8.57	341.38		332.81		BR. End of curb NW Cor DWIGHT & ENCLID
0+00	(54' gross line of MYRTLE ST)	13.38	328.0	323.4	C46	
0+25				323.8		
0+30	6" G.V.	13.9	327.5	323.9	C37	
0+50				324.2		
0+75		11.0	330.4	324.6	C58	
1+00		10.1	331.3	325.8	C55	
1+50		8.4	333.0	328.2	C48	
2+00		6.3	335.1	329.8	C52	
2+50		5.5	335.9	331.4	C45	
2+75		5.1	336.3	332.2	C41	
3+00		4.2	337.2	332.8	C44	
3+50		4.0	337.4	332.4	C50	
4+00		5.1	336.3	330.7	C56	
4+50		7.5	333.9	329.0	C49	
5+00	EAST ③	9.1	332.3	327.0 327.4	C53	
5+00	WEST ⑩	8.5	332.9	327.0 327.4	C59	
5+25	0.96	329.09	12.25	328.13	322.0	
5+25			1.0	328.1	324.0	C61
5+50			6.6	322.5	314.0 317.0	C85
5+75	0.01	316.84	12.26	316.83	306.0 310.0	C62
5+75			1.6	312.2	310.0	

pipe

318.9

10.2

309.1

7.7

Alley BLK 4
(CONT'D)

1/25/54

48

316.84

6+00		9.2	307.6	301.0 304.2	C66
6+25		12.6	304.2	298.4	C58
6+50		13.8	303.0	297.4	C56
6+75		14.7	302.1	298.4	C37
CK 11		11.9	305.15 = 305.18		

Nail in pole # P4225 (F.P. 830 pg. 30)

WATER METERS

0+80 W	N: 341.38	4.7	329.7	328.8	C09
0+82 E		0.6	330.8	328.9	C19
1+00 W		11.1	330.3	329.8	C05
1+05 E		10.0	331.2	330.0	C14
1+16 E		9.7	331.7	330.6	C11
1+75 W		7.9	332.5	332.8	C07
2+25 E		5.8	335.6	334.5	C11
2+26 E		5.5	335.9	334.5	C12
2+38 W		5.9	335.5	334.7	C08
2+60 W		3.4	336.0	335.4	C06
2+92 W		4.5	336.9	336.3	C06
3+50 E E		3.8	337.6	336.4	C12 ✓
3+94 W		4.2	337.2	335.6	C16 ✓
4+29 W		4.5	336.9	334.4	C22 ✓
4+53 W		5.5	335.9	333.4	C25 ✓
5+00 W		8.5	332.9	331.8	C11 ✓
5+35 W	N: 329.09	1.5	327.6	330.4	F28 ✓
3+82 W	N: 316.84	2.7	314.1	—	C02

ALLEY BLK 3
 NOR. OF REDWOOD, EAST OF HIGHLAND
 (5) STK.S & GRD.S FOR 6" A.C. WATER

JAN. 28 1954

BEATTY
 SHREVE
 MARTELL
 ALEXANDER

29.

6	BM	7.45	330.04		322.59			BR. N.W. COR. TURN & HIGHLAND (F.D. 818, pg 36)
	6+85	6" GV (CITY) END WORK		6.0	324.0	320.8	C32	321.6 Top. exist 2'
	6+50			3.9	326.1	320.8	C53	
	6+00			4.4	325.6	321.0	C46	
6	5+50			6.4	323.6	319.3	C43	
	5+00			8.1	321.9	317.5	C44	
	4+50			9.7	320.3	315.8	C45	
	4+00			11.1	318.9	314.0	C49	
6	3+50	0.05	317.00	13.09	316.95	312.3	C47	
2	3+00			2.10	314.9	310.6	C43	
1	2+50			4.0	313.0	308.3 308.2	C48 C47	
1	2+00			6.2	310.8	306.0 304.6	C62 ✓ C48	Excavated DITCH 2/5/54
2	1+50			9.2	307.8	301.0 296.5	C72 ✓ C68	WRONG! 2999
2	1+00	0.34	302.10	13.24	303.76	291.0 289.4	C82 ✓ C85 ✓	291.4
2	0+75			6.9	293.8	292.2 283.4	C94 C102	289.2
2	0+50			11.6	292.5	282.0	C105 ✓ C91	282.7
3	0+05	0.08	291.49	12.69	291.41	277.5 275.9	C73 ✓ C23	
4				12.4	279.1	281.0	F12 C16	
5	SET. TBM	9.21	296.40	2.30	287.19	27	NAIL IN P. Pole # 305247	
5	P	12.53	308.62	0.31	296.09			
3	P	12.67	321.28	0.01	308.61			

1/28/54

50

ALLEY BLK 3
(Cont'd.)

321.28

TD	8.52	328.87	0.93	320.35	
CK BM			6.30	322.57 = 322.57	

6+25 E	Ni	330.04	4.1	325.9	325.0	C09
5+96 E			4.7	325.3	324.8	C05
5+45 W			6.6	323.4	323.2	C02
5+33 E			7.3	322.7	322.8	F01
5+20 W	✓ rev. 2/5/54		7.2	322.8		
5+10 W			7.3	322.7	321.8	C09 C10
3+67 E			12.3	317.7	316.6	C11
2+45 W	Ni	317.00	3.4	313.6	312.5	C11
1+90 E			7.3	309.7	310.0	F03
1+35 W			9.4	307.6	304.0	C36

JAN. 29 1954

51.

BEATTY
SHOREY
MARTELL
ALEXANDER

ALLEY BLK 6

NOR. OF QUINCE, EAST OF 44TH

⑤ STRS & GRD.S FOR 6" A.C. WATER

BM.	3.67	300.86	12.88	297.19		
10	0.07	288.05	13.08	287.98		
11	0.18	275.15	12.92	274.97		
12	0.12	262.35	6.08	262.23		
SET TBM.	11.06	267.33	9.0	258.3	2543	
0+15	BEGIN WORK					
0+20	6" GV. (CITY)					
0+37	45°		4.3	263.0	2543	C87
10	90° vert. Bend		12.58	279.38		
0+37	22 1/2° Bend				2602	
0+50	22 1/2° BEND		8.5	270.9	267.3	C36
10			0.97	278.41	277.3	C44
1+00		291.18	9.5	281.7	272.3	
1+50			4.2	287.0	282.3	C47
2+00			1.8	289.4	283.2	C61
2+50	9.21	299.37	1.02	290.16		C33
		(E. ⑤)	11.8	287.6	2843	C66
		(W. ⑩)	8.5	290.9		C54
3+00		W ⑩	8.8	290.6	285.2	
3+50		W ⑩	7.6	291.8	286.2	C56
4+00		W ⑩	5.9	293.5	287.2	C63
4+50		W ⑩	5.0	294.4	287.2	C72
5+00		W ⑩	3.7	295.7	287.2	C85
10	3.28	298.90	3.75	295.62		C108
5+50	F.H. TEE	(SW)	3.6	295.3	284.5	
5+50	⑤ F.H.	W ⑩	9.8	289.1	288.5	C06 C46
6+00		W ⑩	5.8	293.1	284.5	C86
6+05	END WORK					
CK TBM			11.73	287.17 = 287.19		(pg. 49)

BR. SE COR QUINCE & FAIRMOUNT

NAIL IN POLE 14' LT 0+10

289.8
14
C

ALLEY BLK 6
(Cont'd.)

1/29/54

52

WATER METERS STK'D

1+76 W	N	291.18	0.6	290.6	287.3	C33
1+77 E	"		3.0	288.2	287.3	C09
2+45 W	N	299.37	8.1	291.3	288.6	C27
2+59 W			8.2	291.2	288.8	C24
3+26 W			7.7	291.7	289.9	C28
4+22 W			4.2	295.2	291.3	C39
4+57 W			3.6	295.8	291.6	C42
5+00 W			3.1	296.3	290.7	C56
5+38 W	H	298.90	3.2	295.7	289.3	C64

LINDA ROSA AVE.
 LA JOLLA MESA DR TO FORWARD ST.
 (2) STKS & GRDS FOR EXISTING WAT. METS

FEB. 1, 1954.
 BEATTY
 SHREVE
 MACBELL
 ALEXANDER

53

BM	13.10	160.62		147.52					
IP	8.95	169.39	0.18	160.44					
11+54.5 SWly			6.7	162.7	162.7	CO ²			
		NEly Curb (end)	6.15	163.24				5416	Linda Rosa
10+855 "			8.3	161.1	160.9	CO ²		5422	" "
10+65 "			9.1	160.3	160.3	CO ²		5428	"
9+65 "			11.6	157.8	157.8	FO ²		5438	"
IP 9+29 "	2.70	159.67	12.42	156.97	156.8	CO ²		5442	"
8+43 "			4.2	155.5	155.4	CO ¹		5450	"
7+49 "			4.6	155.1	155.0	CO ¹		5460	" "
7+02.5 "			4.7	155.0	152.6	CO ⁴		825	MIDWAY
		(SWly Curb end)	5.02	152.63				5504	Linda Rosa
5+73 "			4.5	155.2	154.7	CO ⁵		5514	"
4+50 "			4.1	155.6	155.5	CO ¹		5522	"
4+22 "			3.9	155.8	155.9	CO ²		5540	"
IP 2+60 "	9.77	167.99	1.45	158.22				5546	"
			9.5	158.5	158.6	FO ¹			
		curb.	9.40	158.6					
1+88.5 "			7.5	160.5	160.4	CO ¹			
1+27 "			4.0	164.0	163.8	CO ²			
		curb.	4.20	163.8					
IP	4.95	160.78	12.16	155.83					
IP	8.52	169.23	0.09	160.69					
IP	1.84	159.74	11.33	157.90					
CK BM.			12.22	147.52	= 147.52				

NE. Cor. C.T. Colima & Teft.

(PK of Mets 20⁵ from & ST)

SANTA ISABEL DR.
 ENCINA DR TO OLVERA
 (2) GRDS. & STRS FOR EXISTING
 WATER METERS

FEB. 8, 1954

Beatty
 Sholey
 Martell
 Alexander

54

0+95	Swly. Nely Curb & Pavt.	2.05 4.00 3.99	03.4	C02 0.01	824	Santa Isabel
1+93	Swly. Nely Curb & Pavt.	6.55 9.72 9.67	02.1	C25 .05	814	" "
2+65	Swly. Nely Curb & Pavt.	10.03 11.80 11.72	11.1	C11 .08	804	" "
3+85	Swly. Nely Curb & Pavt.	2.08 3.07 3.22	02.5	F04 .15	748	" "
5+33	Swly. Nely Curb & Pavt.	0.94 4.46 4.46	03.8	C29 .00	730	" "
6+73	Swly. Nely Curb & Pavt.	6.41 11.66 11.56	11.4	C50	706	" "

Stationing is on E of street

0+00 is at EC Nely Cor Encina

1+10 is at EC

2+86 is at EC

4+655 is at PC

5+63 " " EC

7+235 " " PC

Sely Cor Olvera.

FEB. 19, 1954

BRATTY,
MARTELL
ALEXANDER

55

FROUDE ST.
PT. LOMA To VOLTAIRE
⑤ GRDS SET FOR 12" A.C. WATER

BM.	13.36	78.26	62.90			
BM.	11.67	78.26	11.67	66.59		
0+10		Begin Work	12.45	65.8	62.2	C36
0+25			11.93	66.3	62.2	C41
0+50			10.7	67.6	63.3	C43
1+00			8.33	69.9	65.5	C44
1+50			5.97	72.3	67.8	C45
2+00			3.63	74.6	70.0	C46
2+50	13.38	90.30	1.34	76.92	72.2	C47
3+00			11.05	79.3	74.5	C48
⁺⁴⁶⁸ 3+47 ⁸		12" x 6" TEE	9.65	80.7	76.6	C41
3+50			9.6	80.7	76.8	C39
4+00			9.15	81.2	77.1	C41
4+13			8.6	81.7	77.2	C45
4+50			6.85	83.5	79.0	C45
5+00			4.6	85.7	81.4	C43
5+50			2.4	87.9	83.6	C43
¹¹ 6+00	13.27	103.49	0.08	90.22	85.8	C41
6+50			11.0	92.5	88.0	C45
	CK BM. 8.82	103.41	8.82	94.67 =	94.59	BP SW Cor Pescadero
7+00			8.8	94.7	90.2	C45
7+13			8.44	95.0	90.8	C42
7+26 ²		12" x 6" TEE	8.2	95.2	91.1	C41

2/19/54

56.

FROUDE ST.
(Contd.)

	103.41				
7+75		75	95.9	92.0	C39
8+00		5.5	97.9	92.0	C39
8+50		1.4	102.0	98.0	C40
TP	12.93	116.06	0.28	103.13	
9+00		10.03	106.0	102.0	C40
9+50		5.42	110.6	106.0	C46
TP	13.09	129.00	0.15	115.91	
10+00		11.9	117.1	112.4	C47
10+50		5.5	123.5	118.8	C47
10+87		1.7	127.3	123.4	C39
11+ ⁰⁶⁸ 072	12x6" TEE	1.1	127.9	123.8	C41
TP	12.83	141.48	0.35	128.65	C42
11+37		11.0	130.5	126.0	C45
11+63		5.7	135.8	131.4	C44
TP	12.93	154.31	0.10	141.38	
12+50		11.2	143.1	138.8	C43
13+00		5.0	149.3	144.6	C47
CK TP		3.41	150.90 = 150.88		
13+25		2.9	151.4	147.5	C39
13+50		1.3	153.0	148.9	C41
TP	10.61	164.82	0.10	154.21	
14+00		9.12	155.7	151.7	C40
14+50		6.13	158.7	154.5	C42
14+ ⁸⁶⁴⁰ 8610		4.51	160.31	155.8	C45
CK TP		3.82	161.00 = 160.98		
SET TP		3.12	164.20		

LET NW1/4 Cor Del Mar

2/24/52

186.1

57.

FROUDE ST.
(Cont'd)

TP	13.04	174.74			161.70	TP. L & T Hwy Cor. Del Mar
15+25			12.7	161.8	157.2	C4 ^e
15+50			10.9	164.3	159.7	C4 ^e
16+00			3.6	171.1	166.2	C4 ^e
TP	13.22	187.77	0.19	174.55		
16+50			2.9	177.9	172.7	C5 ^e
16+87			6.0	181.8	177.6	C4 ^e
17+25	2" AYA.		4.6	183.2	178.6	C4 ^e
17+50			4.2	182.9	178.0	C4 ^e
18+00			6.0	181.8	176.9	C4 ^e
18+50			7.2	180.6	175.8	C4 ^e
18+87			8.0	179.8	175.0	C4 ^e
19+00			8.4	179.4	174.6	C4 ^e
19+50			10.0	177.8	173.2	C4 ^e
19+75			11.4	176.4	172.5	C3 ^e
TP	1.01	175.75	13.03	174.74		
20+00			1.1	174.7	170.3	C4 ^e
20+50			5.8	170.0	166.0	C4 ^e
21+00			11.6	164.2	160.0	C4 ^e
TP	0.03	162.42	13.36	162.39		
21+50			4.5	157.9	153.9	C4 ^e
22+00			10.7	151.7	147.9	C3 ^e
TP	1.69	151.91	12.20	150.22 = 150.19		
22+37			3.8	148.1	143.4	C4 ^e

F.B. 732 Pg. 49

2/24/54

58

FROUDE ST.
(Cont'd.)

151.71

22+50		7.2	147.7	142.8	C4 ²
23+00		6.7	145.2	140.7	C4 ⁵
23+50		9.2	142.7	138.6	C4 ¹
24+00		11.7	140.2	136.2 136.5	C3⁷ C4 ⁰
24+37		13.5	138.4	134.4 135.0	C3⁴ C4 ⁰
TP	3.73 142.63	13.21	138.70 = 138.71		SW. Curb End @ Alley
24+50		5.0	137.6	133.7 134.2	C3⁴ C3 ⁹
25+00		7.6	135.0	131.2	C3 ⁸
25+13		8.2	134.4	130.5	C3 ²
25+50		10.1	132.5	128.6	C3 ²
26+00		12.3	130.3	126.0	C4 ³
26+22.5 23 ⁰	12" x 6" TEE	12.4	130.2	126.2	C4 ²
26+50				126.4	C4 ¹
26+63		11.9	130.7	126.5	C4 ²
27+00		11.3	131.3	126.9	C4 ³
27+50		10.9	131.7	127.5	C4 ²
28+00		10.2	132.4	128.0	C4 ⁴
28+50		8.7	133.9	129.9	C4 ⁰
29+00		6.6	136.0	131.8	C4 ²
29+50		4.3	138.3	133.8	C4 ⁵
30+00		2.3	140.3	135.7	C4 ⁶

2/24/54

59.

FROUDE ST
(Cont'd.)

142.63

30+02.8	12"x6" TEE	2.2	140.4	135.8	C4 ⁶
30+50		0.7	141.7	137.9	C4 ⁰
TD	12.91 154.34	1.20	141.43 = 141.42		LET 7' off. N.W. Cor. Narragansett & Froude F.B. 732 Pg. 50
31+00		7.9	146.4	142.3	C4 ¹
31+50		3.6	150.7	146.6	C4 ¹
32+00	2" A.V.A.	2.6	151.7	147.7	C4 ⁰
32+37		4.6	149.7	145.6	C4 ¹
32+50		5.9	148.4	144.2	C4 ²
33+00		11.7	142.6	138.6	C4 ⁰
TD	2.06 143.39	13.01	141.33		
33+50		7.30	142.29 = 142.27		
		6.6	136.8	133.0	C3 ⁸
33+ ⁸³¹⁵ 83.5	12"x6" TEE	8.7	134.7	130.6	C4 ¹
33+87		8.8	134.6	130.3	C4 ³
34+13		9.9	133.5	129.7	C3 ⁸
34+50		12.6	130.8	126.5	C4 ³
TD	0.03 130.42	13.00	130.39		
35+00		4.0	126.4	122.3	C4 ¹
35+50		8.3	122.1	118.0	C4 ¹
36+00		12.6	117.8	113.7	C4 ¹
TD	0.24 117.45	13.21	117.21		
36+50		3.9	113.6	109.3	C4 ³
37+00		8.3	109.2	105.0	C4 ²
37+37		11.1	106.4	102.4	C4 ⁰

3/4/54 same Party

1345
87
C

33+75

FROUDE ST.
(Cont'd.)

3/2/54

60.

	117.45				
37+61.9	12"x6" TEE	11.7	105.8	101.4	C44
37+75		12.0	105.5	101.0	C45
38+00		12.7	104.8	100.1	C47
^W 38+50	0.96 105.12	13.29	104.16		
		2.2	102.9	98.2	C47
39+00		4.2	100.9	96.3	C46
39+50		6.2	98.9	94.4	C45
39+62		6.7	98.4	94.0	C44
40+00		7.6	97.5	93.4	C41
40+50		8.3	96.8	92.9	C39
41+00		9.0	96.1	92.3	C38
^{41.3} 41+41.3	12"x6" TEE	9.3	95.8	91.7	C41
41+62		9.7	95.4	91.4	C40
42+00		10.4	94.7	90.7	C40
42+50		11.2	93.9	90.0	C39
^W 43+00	0.71 95.78	10.05	95.07		
		2.6	93.2	89.2	C40
43+50		3.4	92.4	88.4	C40
44+00		4.3	91.5	87.6	C39
44+50		5.0	90.8	86.8	C40
45+00		6.0	89.8	86.0	C38
^{45+24.4} 45+20.7	12x6 TEE	6.3	89.5	85.5	C40

FROUDE ST.
(Cont. d.)

45+265	12" GV.	95.78	6.4	89.4	85.2	C40
45+50			6.9	88.9	84.8	C41
46+00			8.0	87.8	83.6	C41
46+25			8.6	87.2	83.0	C42
46+50			9.3	86.5	82.3	C42
47+00			10.6	85.2	80.9	C43
47+50	TP MH 1.13	86.22	10.67	85.11	79.6	C42
48+00			2.4	83.8		
48+50			3.6	82.6	78.2	C44
49+00			6.4	79.8	75.2	C46
49+019					72.2	
49+37	TP 139	77.45	9.3	76.9	72.2	C47
49+50			10.18	76.06		
50+00			1.4	76.1	71.8	C43
50+50			1.8	75.7	71.1	C46
51+00			4.3	73.2	68.6	C46
51+50			6.8	70.7	66.1	C46
52+00			9.4	68.1	63.6	C45
52+50			11.9	65.6	61.1	C43
52+50 ⁴⁵	TP 0.67	64.83	13.29	64.16		
			1.8	63.0	58.6	C44
	X PT (1°29'4T)		4.3	60.5	56.2	C43
	Sly PL Brighton Ave					

3/5/52

61

3/5/54

62.

FROUDE ST.
(Cont.d.)

	64.83				
52+ ^{73.45} 74.5	12" x 6 TEE	4.4	60.4	56.1	C4 ³
52+88		4.7	60.1	56.0	C4 ¹
53+10 ⁴⁵	* RT (1028' RT) NLY PL BRINGTON AVE	5.4	59.4	55.2	C4 ²
53+50		6.9	57.9	53.7	C4 ²
54+00		9.1	55.7	51.9	C3 ⁸
54+25		10.1	54.7	51.0	C3 ⁷
54+50		11.1	53.7	49.6	C4 ¹
55+00		13.2	51.6	46.7	C4 ⁹
TP	1.30 52.89	13.24	51.59		
55+13		1.8	51.1	46.0	C5 ¹
55+ ^{+44.35} 45.2	12" x 6 TEE	2.7	50.2	45.6	C4 ⁶
55+50		2.7	50.2	45.5	C4 ⁷
56+00		3.7	49.2	45.0	C4 ²
56+50		4.3	48.6	44.5	C4 ¹
57+00		4.9	48.0	44.0	C4 ⁰
57+50		5.5	47.4	43.5	C3 ⁹
58+00		5.9	47.0	43.0	C4 ⁰
58+ ⁰⁸⁷ 102	12" x 6 TEE	5.8	47.1	42.9	C4 ²
58+50		6.0	46.9	42.7	C4 ²
59+00		6.3	46.6	42.3	C4 ³

FROUDE ST.
(Cont'd)

3/5/52

63.

52.89

59+50 6.8 46.1 42.0 C41

60+00 7.2 45.7 41.7 C42

60+50 7.7 45.2 41.5 C37

60+60 END of WORK 7.8 45.1 41.4 C37

5.36 47.53 = 47.55

MAR. 5, 1954

64

RADIO ROAD
WINNETT TO BURIAN
⑤ STKS & GRDS. FOR 8" WATER
(GROUP 10)

BM	0.68	302.71	302.03	Car. Conc well Nwly Cor Winnett & Radio	FB 790. Pg. 60.
			7.5 295.2 ± Bot Pipe		
17+75	8" G.V.		3.7 299.0 295.4	C36	
17+81	22 1/2° BEND		4.0 298.7 295.3	C34	
18+00			4.6 298.1 294.8	C33	
18+25			4.9 297.8 294.2	C36	
18+50			5.1 297.6 292.5	C41	
19+00			5.3 297.4 292.1	C53	
19+50			5.2 297.5 290.7	C68	
19+75			5.3 297.4 290.0	C74	5.4
20+25			9.3 293.4 286.4	C70 ✓	12.2 NEW FILL
			290.2	C70	
20+50			12.7 290.0 283.2	C68 ✓	15.8 20+55-20+95
			12.3 289.2	C72	
20+75			13.3 289.4 282.0	C72 ✓	15.6
21+00			11.1 291.6 282.4	C92 ✓	14.0
21+50			8.8 293.9 285.5	C84	11.6
IP 22+00	1.33	294.46	9.58 293.13 287.6	C55	11.1
22+50			2.0 292.5 287.9	C46	8.3
22+75			2.3 292.2 288.0	C42	8.4
23+00			2.4 292.1 287.7	C44	8.5
23+50			2.9 291.6 287.0	C46	8.9
24+00			4.2 290.3 286.4	C39	4.2

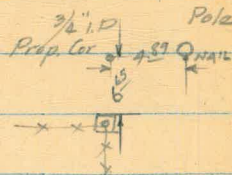
RADIO ROAD
(Contd)

3/5/54

65

	294.46						
24+50		5.4	289.1	284.7	C44		
24+56 1/2 PT		5.6	288.9	284.5	C44		
24+83 F.H. TEE		6.0	288.5	283.6	C47		
⑤ F.H.		4.2	290.3	289.7	C06 C62	78	
24+88 G.V.		6.1	288.4	283.4	C50	87	
	± culv.	10.3	284.2				
25+00		6.0	288.5	283.0	C55	79	
25+50		4.9	289.6	283.6	C60		
26+00		3.6	290.9	284.2	C67		
26+50		4.5	290.0	283.8	C62		
27+00		6.9	287.6	283.4	C42		
27+50		9.1	285.4	281.2	C42	96	
28+00		9.7	284.8	279.8	C50	161	
28+25		9.6	284.9	279.6	C53	160	
H 28+50	2.22	287.75	8.93	285.53	280.5	C50	160
29+00		0.2	287.6	280.8	C68	08	
29+50		0.9	286.9	279.8	C71	14	
30+00		3.0	284.8	278.9	C59	32	
30+50		5.3	282.5	278.0	C45		
31+00		6.8	281.0	276.2	C48	25	
31+50		7.5	280.3	275.6	C47	91	
32+00		7.3	280.5	274.9	C56	86	
32+10 F.H. TEE		7.2	280.6	274.8	C58	87	
⑤ F.H.		2.8	285.0	279.2	C58 C10?		

Prop. Cor Tie-out



3/5/52

66

RADIO ROAD
(Cont'd)

	287.75					
32+17 32+15 8" GV.		72	280.6	274.7	C59	82
32+22 32+20 8" Wye		73	280.5	274.6	C59	
CK X RT SPIKE		8.34	279.41 =	279.42		
CK TBM.		10.58	277.17 =	277.13	NAIL IN Pole	

WATER METERS

19+08 Nly	4. 302.7	0.1	302.6	292.7	C49	6330
23+86 Nly	4. 294.46	+1.6	296.1	291.0	C51	(MR. RICE) 6264
24+23 Sly	4. "	7.4	287.1	289.0	F19	6235
24+63 Nly	"	4.4	290.1	289.9	C02	6250
25+28 Nly	"	4.0	290.5	289.2	C13	6240
25+89 Sly	"	6.1	288.4	286.4	C02	6215
28+38 Sly	"	13.5	281.0	286.0	F50	6191
29+00 Nly	287.75	+5.3	293.1	285.3	C78	
30+98 Sly	"	12.2	275.6	281.0	F54	

IONA DRIVE
KENWOOD TO MERLIN
⑤ GRDS & STKS FOR 6" AC. WATER
(GROUP 10)

Mar. 10, 1954
DEATY
SHREY
MARTELL
ALEXANDER

67.

B.M.	6.42	215.66		209.24		L&T 3' 30. S/L KENWOOD & MERLIN EB 852, 17.59
④	3.16	205.54	13.28	202.38		
0+00	= 1/2 KENWOOD					
0+40	= EXISTING 6" GV		14.0	191.5	Bottom/pipe	
0+45	= BEGIN WORK (P&S)		9.6	195.9	191.5	C44
0+60	6" F.H. (CITY)		8.5	192.0	192.9	C41
	⑤ F.H.		10.0	195.5	197.2	F12, C26 ✓
0+65	Begin Work		8.3	197.2	193.4	C38
1+00			5.3	200.2	196.4	C38
1+50			1.2	204.3	200.5	C38
④	12.31	217.76	0.09	205.45		
2+00			9.1	208.7	205.1	C36
2+50			5.3	212.5	209.1	C34
3+00			1.7	216.1	212.5	C36
④	13.11	230.70	0.17	217.59		
3+50			11.1	219.6	215.9	C37
4+00			7.0	223.7	219.7	C38
4+50			2.4	228.7	225.1	C32
④	12.45	243.09	0.06	230.64		
5+00			9.4	233.7	230.3	C34
5+50			4.1	239.0	235.4	C36
④	12.45	255.44	0.10	242.99		
6+00			12.2	243.2	239.7	C35
6+50			7.8	247.6	244.0	C36
6+93.3	F.H. TEE		4.4	251.0	246.9	C41
⑤	F.H.		5.6	249.8	251.7	F19, C29

IONA DR
(Cont.d.)

3/10/54

68.

7+00	253.44	4.2	251.2	247.3	C39
7+08	END WORK	4.2	251.2	247.8	C34
7+13	6x6" CROSS by City			248.1	
7+18	6" G.V. " "			248.4	
7+23	Begin WORK	3.2	252.2	248.7	C35
7+50		1.7	253.7	250.4	C33
P	13.20 268.61	0.03	255.41		
8+00		10.6	258.0	254.6	C34
8+50		6.1	262.5	258.8	C37
8+75		4.2	264.4	261.0	C34
9+00		2.0	266.6	262.7	C39
P	12.52 281.06	0.07	268.54		
9+50		11.6	269.5	266.0	C35
10+00		9.8	271.3	267.4	C39
10+50		7.2	273.9	269.9	C40
11+00		4.5	276.6	272.6	C40
11+50		1.2	279.9	275.4	C45
P	6.39 287.31	0.14	280.92	277.6	C52
11+95	(Car on 12+00)	4.5	282.8		
12+25		2.7	284.6	278.3	C63
12+50		1.4	285.9	278.8	C71
12+80	END WORK	1.4	285.9	279.1	C68
12+84	6" G.V. (CITY)			278.8	
12+89	{ Bottom of 6" C.I. EXISTING PIPE NO WYE OR TEE IN EVIDENCE	8.0	279.3		
CK TBM.	3.21 289.82	0.70	286.61 = 286.58		
CK B.M.		7.72	282.10 = 282.13		

Top. FH
SE. BP. 60th & BROADWAY

4.92
2.5
7.42
7.6
8.02

IONA. DR
WAT. MET. 5

3/11/54

69

Li 205.54

1+27 W	1.3	204.2	202.9	C13	✓	612	10m8
1+49 E	1.9	203.6	204.1	F05	✓	621	"
1+70 W	9.3	208.5	206.3	C22	✓	620	"
2+00 E	9.5	208.3	208.2	C01	-✓	627	"
2+07 W	6.4	211.4	209.3	C21	✓	628	"
2+50 E	5.2	212.6	211.9	C07	✓	635	"
2+57 W	3.3	214.5	213.3	C12	✓	636	"
3+06 W	0.0	217.8	217.2	C06	✓	642	"
3+14 E	0.9	216.9	217.2	F03	✓	643	"
3+50 W	9.6	221.1	220.6	C05	✓	652	"
3+52 E	10.8	219.7	220.4	F05	✓	651	"
4+10 E	6.2	224.5	225.2	F07	✓	705	"
4+21 W	3.1	227.6	226.7	C09	✓	704	"
4+62 W	+1.7	232.4	231.0	C14	✓	712	"
4+65 E	1.2	229.5	230.8	F13	✓	711	"
5+18 W	5.5	237.6	236.9	C07	✓	720	"
5+22 E	7.1	236.0	236.5	F05	✓	721	"
5+63 E	3.2	239.9	240.7	F08	✓	727	"
5+73 W	12.1	243.3	242.0	C13	✓ ✓ ✓	730	"

Li 217.76

Li 230.70

Li 243.09

255.44

238.1
10.7
232.4

3/4/54

70.

IONA DR.

WAT. MET.S

	N. 255.44					
6+16 E		11.3	244.1	245.2	F1L ✓	735 Iona
6+70 E		6.2	249.2	249.3	F0L ✓	745 "
	N. 268.61					
7+89 W		8.0	260.6	258.0	C2L ✓	5936 Broadway
8+64 W		3.4	265.2	264.0	C1L ✓	822 Iona
	N. 281.06					
9+25 W		12.0	269.1	267.7	C1L ✓	828 "
9+29 E		13.3	267.8	267.7	C0L ✓	827 "
9+59 W		10.0	271.1	269.5	C1E ✓	836 "
9+63 E		11.1	270.0	269.5	C05 ✓	825 "
10+06 W		8.5	272.6	271.8	C08 ✓	840 "
11+39 W		3.0	278.1	278.6	F05 ✓	866 "

GENEVA AVE
HANOVER TO WINSTON

③ STKS & GRDS for 8" A.C. WATER

(GROUP 10)

MAR. 11, 1952
CRATTY
SHOREY
MARTELL
ALEXANDER.

71.

BM	0.27	249.14		248.87		Conc Man SW Cor HANOVER & GENEVA (FD. 880 pg. 2)
0+00	= E/L HANOVER					
0+20	= EXISTING TEE					
0+25	8" G.V. (CITY)					
0+30		BEGIN WORK	0.3	248.8	244.0	C48
0+50						
0+70		8" F.H. TEE	1.9	247.2	243.8	C34
	⑨	F.H.	0.4	248.7	248.8	FOL, C49
1+00			2.2	246.9	243.6	C33
1+50			3.5	245.6	242.0	C36
2+00			7.1	242.0	237.7	C43
2+50			12.0	237.1	233.4	C37
TP	0.31	236.23	13.22	235.92		
3+00			5.5	230.7	226.8	C39
TP	1.28	224.23	13.28	222.95		
3+50			+0.1	224.3	219.5	C48
4+00			7.6	216.6	212.2	C44
TP	0.12	211.09	13.26	210.97		
4+50			2.5	208.6	205.0	C36
CK BM			8.68	202.41	= 202.46	NAIL IN P. Pole
5+00			8.6	202.5	198.6	C39
TP	0.25	198.26	13.08	198.01		
5+50			1.4	196.9	191.3	C56
6+00			8.2	190.1	184.0	C61
TP	0.42	185.44	13.24	185.02		
6+50			1.6	183.8	176.7	C71
7+00			8.7	176.7	169.4	C73

GENEVA AVE
(Cont'd)

3/11/54

72.

185.24

7+03	8" G.V.	9.4	176.0	169.0	C70	
7+08	END WORK 8" F.H. TEE	9.9	175.5	168.3	C72	
	(5) F.H.	9.5	175.9	172.8	C31, C76	
	13.03 198.26	0.01	185.43			
	6.80 205.26	0.00	198.26			
		2.82	202.44	-202.46		

CRBM.

WATER METERS

0+51 Nly	N 249.14	247.2	209.0	F18		
1+96 Sly		5.8	243.3	243.4	FO1	5419 Geneva
2+58 Sly	N 236.23	11.8	237.3	237.1	C03	5413 "
3+31 Sly		7.8	228.4	228.4	C00	5367 "
3+38 Nly	N 211.09	12.5	223.7	226.6	F29	(No Existing Mtr) ? No Address
4+60 Nly		5.2	205.9	209.1	F32	? " "
4+66 Sly		3.2	207.9	208.5	F06	? " "
5+38 Nly	N 198.26		196.7	198.3	F16	? " "
5+61 Nly		3.7	194.6	194.2	C04	? " "
5+63 Sly		1.5	196.8	194.6	C22	5301
7+73	4/12/54		166.5	166.0	C05	

4/12/54 (Blue)

175.9
94
166.5

POE ST.
 LOCUST TO EVERGREEN
 (2) STRS. & GRDS FOR EXIST. WAT. MET

MAR. 15, 1954
 BEATTY
 SPERRY
 MARTELL
 ALEXANDER

73

BM 13.25 19.28 06.03

L&T. SW. COR
 POE & ROSECRANS

0400 = NWLY Prop line LOCUST

0404.5 SWly. 2.8 14.5 14.8 F03 1870 LOCUST

0438 NEly. 1.0 18.2 17.5 C08 3104 POE

0461 SWly 0.6 18.7 18.8 F01 3111 POE

D 12.89 32.15 0.02 19.26 3112 POE

0486 NEly 9.4 22.8 22.2 C06 3120 POE

1423 NEly 4.2 27.9 27.7 C02 3130 POE

D 11.50 43.49 0.16 31.99 3130 POE

1476 NEly 4.5 39.0 39.0 C00 3135 POE

1498 SWly 0.4 43.1 38.8 C13 3135 POE

D 0.28 30.51 13.26 30.23

D 1.01 18.38 12.17 17.37

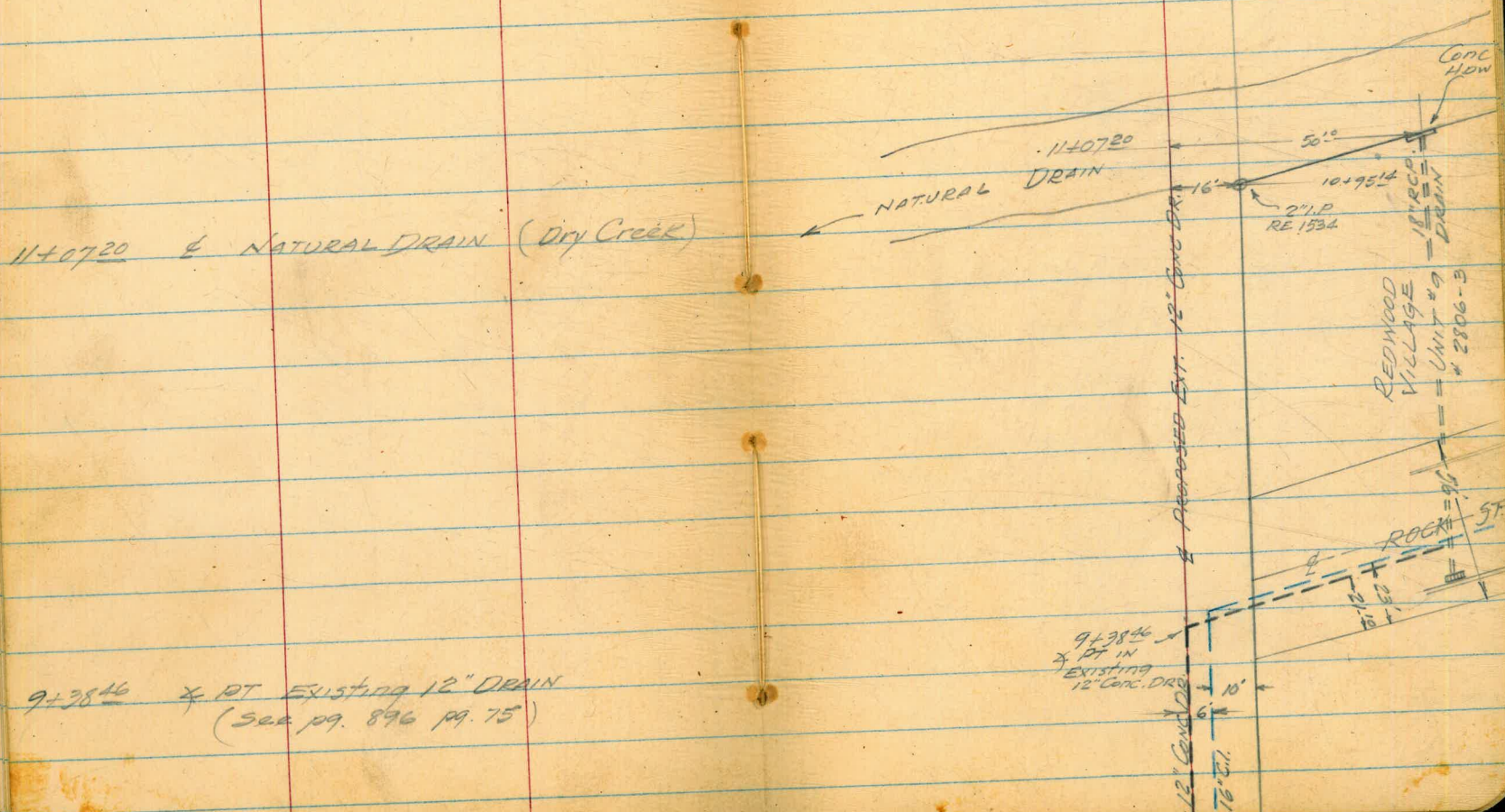
CK BM. 12.33 06.05 = 06.03

OCT. 27, 1954

BEATTY
SHOREY
MASTELL
ALEXANDER

74

REDWOOD VILLAGE DRAIN LINE
PROPOSED EXTENSION OF 12" CONC. DRAIN
ROCK STREET, N1/4 TO NAT. DRAIN



REDWOOD VILLAGE
Proposed Extension 12" DRAIN LINE
& PROFILE

10/27/52

75

TBM	0.35	316.54	316.19
9+38 ⁴⁶	x RT Existing	3.0	313.5
9+38 ⁴⁶	(Bottom 12" Drain as stated FB. 896-Pg. 75)		308.2
9+50		2.9	313.6
9+68		3.6	312.9
9+69		3.3	312.2
9+75		4.6	311.9
9+85		8.2	308.3
10+00		7.5	309.0
10+30		8.8	307.7
10+50		8.6	307.9
10+67		8.8	307.7
10+75		9.8	306.7
		5.19	311.35 = 311.52
TD	8.02	312.19	12.37 302.17
10+88		7.5	302.7
10+90		8.7	303.5
11+00		8.7	303.5
11+19		8.9	303.3
11+21		7.2	302.8

Nail in power pole End of Rock St. (500 pp 75 FB. 896)

(Wly) LT

RT (Ely)

311.9	311.9	313.8	316.0
4.6	4.6	2.7	0.5
10	4	8	16
309.8	309.5	308.6	308.3
6.7	7.0	5.2	0.2
10	2.7	4	16
309.8	310.0	307.6	309.0
6.7	6.5	9.1	7.5
15	9	16	16
306.0	306.2	306.4	307.7
12.5	12.3	10.1	8.8
15	10	2	16
305.7	305.6	306.4	307.9
12.8	12.8	12.1	8.6
15	8	2	16
305.3	305.1	307.7	315.7
11.2	11.2	8.8	2.8
15	8	16	16
302.9	302.6	306.7	308.0
11.6	11.9	9.8	8.5
15	12	4	16
303.2	303.5	304.3	306.2
9.0	8.7	7.9	2.2
15	5	4	16
	9.3		8.6
	15		5
			7.1
			16
9.3	9.4	8.7	8.5
15	10	7	16
7.7	7.4	8.7	9.0
15	7	5	16
7.6			8.9
15			11
			16

Nail in Tele pole

REDWOOD VILLAGE
Proposed Extension 12" DRAIN LINE
& profile Cont'd.

10/27/54

76.

(wly) LT

RT (Fly)

312.19							
11+28	71	305.1		76		71	6.2
				15		3	9
11+32	6.6	305.6		78		6.6	3.3
				15		3	16
11+50	5.6	306.6		76	75	4.8	3.5
				15	11	3	16

11+07 & Nat. Drainage along & CREEK

3031	3030	3034	3033	3035
21	22	11	87	87
100	50	5	50	100

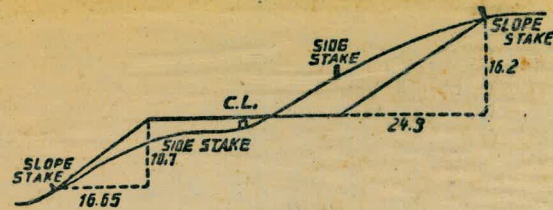
18" RCP Drain outlet

50' RT. 11+07 90' RT.

6.42 305.77

TP 12.47 317.22 7.44 302.75

CK TBM 104 316.18 = 316.19



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

79.64
9.6
89.24

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