

275

GENERAL
LEVEL NOTES

275

LEVEL BOOK

1935

W275

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IRVING PARK STATION
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CHICAGO, ILL.

JAN 11 1965

ORSD. 2nd Main Pipe Line

Page

Index

- 1-31 "A" Line Profile Levels.
Sta. 0+00 (Otay Filter Plant) to
Sta. 91+21. (Final Location.)
- 32-48 "P" Line Profile Levels. **Abandoned.**
Sta. 2+40.23 to Sta. 87+98.96
- 49-70 11th St alternate line, south from 7th St. Upas.
- 71-74 line revision of 11th St. alternate
- 74-76 profile " " " "

Elevations on U.S.G.S.

Datum.
"A" Line Profile Levels.

Note corrected for
error of 10" made
near Chollas res.

B.M. 1	0.18	400.74	391.44 City
			400.56 U.S.G.S.
		5.38	395.36 ✓
		1.20	399.59 ✓
		1.70	399.04 ✓
0+00	Flow Line =	1.72	399.02 ✓
	10/18/29 399.08 - (36" ± change) = 395.66 x 1/2 in.	1.66	399.08 ✓
0+00		1.96	398.78 ✓
0+01		6.45	392.29 ✓
T.P.		0.19	400.56
	1.17	405.05	
0+04		0.3	401.7 ✓
0+17.6		2.5	402.5 ✓
+27		1.9	403.1 ✓
+66.82		4.1	400.6 ✓
+57 (14'R)		7.1	397.9 ✓
+56		4.7	400.3 ✓
+56		3.6	401.4 ✓
+78 (4'R)		7.2	397.8 ✓
T.P.		1.47	400.56 ✓
	2.39	402.95	
0+78		6.8	396.2 ✓
0+97 (14'R)		4.4	398.6 ✓
1+00		10.1	392.9 ✓
+10		12.0	391.0 ✓
+19.5		12.6	390.4 ✓

7/18/29

Parker
Converse
Hill
Elliot
Simpson

Hot

Book 263 Pg. 144.

See Preliminary Levels: 1928. Williams & Converse.

- Spike in Transformer Pole Stay Filter Plant
- Bot. of 48" steel outlet from tunnel
- Top " " " " "
- Top of cast iron wye branch
- " " 36" hor. gate valve
- " " flange of 36" gate valve (E face)
- " " 36" steel pipe
- " " floor under pipe
- Top of concr. wall
- Top of 24" cast iron pipe (at concr. wall)
- " 24" wood stave butter pipe
- " of ground
- " 16" cast iron pipe (connects with wood stave butter pipe)
- ground
- Top of wood stave pipe
- Top of 8" cast iron to reservoir
- " 8" " " " " " } also ground

1/25/29
1" 00
J.T.W.

	402.95 [✓]		
1+36		13.9	389.1 ✓
+50		13.7	89.6 ✓
+60		2.5	92.5 ✓
1+67.18		2.5	94.5 ✓
+70		2.1	95.6 ✓
+85		5.6	92.1 ✓
2+00		5.9	98.0 ✓
2+30		4.6	98.4 ✓
+50		2.0	701.0 ✓
+75		3.7	399.3 ✓
3		7.9	98.1 ✓
+25		7.0	95.0 ✓
+40		7.0	96.0 ✓
+50		7.0	96.1 ✓
+75		10.7	92.6 ✓
4+00		10.5	92.5 ✓
T.P.		10.8	392.7 ✓
	737	399.84 [✓]	
+25		8.8	91.0 ✓
+50		9.8	90.0 ✓
5		9.2	89.9 ✓
+35		9.0	90.8 ✓
B.M. 2 (104 piers)		0.31	399.53 ✓
		3.4	96.4 ✓
5+90		9.3	90.5 ✓

Nail at 4+00

Tap air valve on R 5+69
" of pipe at valve

✓ 1. p. 104
n.

399.87

6+00	10.0	389.8	✓
+20	11.7	88.1	✓
+80	11.6	88.2	✓
7	11.3	88.5	✓
+65	12.7	87.1	✓
T.P.	12.73	387.11	✓

0.86 387.97

8	9.8	84.2	✓
+25	7.5	83.5	✓
+70	7.1	83.4	✓
+80	7.6	82.4	✓
9	9.8	78.2	✓
T.P.	12.35	875.62	✓

0.22 375.84

+20	6.5	74.3	✓
+50	9.6	68.2	✓
+65	12.8	63.0	✓
T.P.	12.84	563.00	✓

1.17 364.17

+85	7.7	58.5	✓
10	11.3	52.9	✓
+10	13.0	51.2	✓
T.P.	12.93	351.24	✓

0.13 351.67

10+50	10.5	41.2	✓
-------	------	------	---

20' R Sta 8+00

Peg 9+12

Peg 9+65

Peg 10+10

✓ + patch
N

	351.67		
10+65		12.9	338.8 ✓
B.M. 3		10.66	341.01 ✓
		12.77	338.90 ✓
	10.10		349.00 ✓
+75		12.5	336.5 ✓
+87		15.1	33.9 ✓
+93		15.0	34.0 ✓
11		13.0	36.0 ✓
+13		11.8	37.7 ✓
+25		10.7	38.3 ✓
+50		8.1	40.9 ✓
+75		5.4	43.6 ✓
12		3.7	45.6 ✓
+27		3.3	45.7 ✓
+44		4.3	44.7 ✓
+47		6.5	42.7 ✓
+55		5.6	43.4 ✓
+60		2.5	46.5 ✓
T.P.		0.14	398.86 ✓
	12.86		361.72 ✓
+73		11.7	50.0 ✓
+95		2.7	59.0 ✓
13		2.0	59.7 ✓
+10		1.5	60.2 ✓
T.P.		0.37	361.35 ✓

Nail in sill at center bent - Trestle #2
Peg 10+65

Water way span

Peg 12+69

no importance

Peg 13+13

✓ plotted
w

	12.76	374.11		361.35	✓
13+30			7.2	669	✓
T.P.			0.16	373.95	✓
	12.92	386.87			
+60			2.5	77.4	✓
+75			5.0	81.9	✓
T.P.			0.36	386.51	✓
	12.51	399.02			
14			12.0	87.0	✓
+20			8.0	91.0	✓
+40			5.6	93.4	✓
+50			5.0	99.0	✓
+86			8.5	93.5	✓
T.P.			5.54	393.48	✓
	9.07	402.52			
15			10.0	392.5	✓
B.M. #4 (103)			0.37	402.15	✓
			4.3	398.2	✓
15+50			11.9	90.6	✓
T.P.			12.53	389.99	✓
	1.13	391.12			
16+00			2.6	88.3	✓
+50			6.0	85.1	✓

Page 13+50

Page 13+98

Hub 14+86

Air valve 60' R 15+00

Top of pipe at air valve

Rock 15+61

✓ plotted
W

	391.12		
17+00		8.2	382.9
+50		12.3	78.8
T.P.		13.01	378.17
	1.55		379.66
18+00		3.6	76.1
+07		5.1	71.6
+38		9.1	70.6
+48		11.4	68.3
T.P.		12.85	366.87
	0.73		367.54
+60		4.0	63.5
+67		7.1	60.7
T.P.		13.04	354.50
	0.61		355.11
T.P.		12.79	342.32
	0.51		342.83
19		2.7	40.7
T.P.		12.79	330.04

Rock 1' Left of Sta. 17+58

Peg 18+48

Peg 18+77

Peg 18+96

Peg 19+20

v + plotted
m

	0.50	330.51	330.01
T.P.			12.78
	0.72	318.48	317.76
19+50			1.8
+75			12.0
T.P.			12.97
	0.90	306.41	305.51
20			8.9
+15			13.5
+30			14.9
+65			16.9
+67			17.6
+79			17.1
+80			15.4
21			8.9
B.M. 5			12.93
+15			3.6
+30			0.5
T.P.			0.32
	12.92	319.01	306.09
+50			3.8
T.P.			0.64
	12.80	331.17	318.37
T.P.			0.23
	12.78	343.72	330.94

Peg 19+48

Rock 19+78

Nail in Trastle sill Sta 20+80

Peg 21+30

Peg 21+57

Peg 21+84

	343.72			
22+00		5.6	338.1	✓
T.P.		0.31	343.71	✓
	12.55			✓
	355.96			
+18		10.7	345.3	✓
T.P.		0.17	355.79	✓
	42.61			✓
	368.40			
+50		7.2	61.2	✓
+62		3.24	65.2	✓
T.P.		0.10	368.30	✓
	12.53			✓
	380.83			
+72		8.0	72.8	✓
+80		6.0	71.8	✓
23		2.0	78.8	✓
T.P.		2.26	380.57	✓
	12.84			✓
	393.41			
+30		10.8	82.6	✓
+45		10.6	82.8	✓
+60		8.1	85.0	✓
24		5.4	88.0	✓
		2.1	84.0	
+25		1.0	89.1	✓
+60		2.0	91.7	✓
T.P.		1.67	391.54	✓
	2.43			✓
	401.17			
25		10.0	91.2	✓
+16		10.0	91.2	✓

Peg 22+13

Peg 22+40

Peg 22+64

Rock & L 23+04

Change Profile to new elev. G.W.C. 1/2/30

Peg 24+65

	701.17		
25+21		9.1	392.1 ✓
B.M. 6 (101)		0.23	700.94 ✓
		3.6	397.6 ✓
+50		8.8	92.4 ✓
+60		10.2	91.0 ✓
+75		10.8	90.4 ✓
26		11.0	90.2 ✓
+98		11.9	89.3 ✓
T.P.		12.97	388.90 ✓
	1.63	389.43	
+65		3.0	86.8 ✓
+80		2.4	87.4 ✓
27		5.7	84.1 ✓
T.P.		12.77	377.06 ✓
	0.34	377.40	
+60		4.5	72.9 ✓
+85		11.0	66.4 ✓
28		15.2	62.2 ✓
T.P.		12.75	369.65 ✓
	0.75	365.90	
+24		8.8	56.6 ✓
+50		12.7	52.7 ✓
T.P.		12.95	352.45 ✓
	0.07	352.52	
+70		5.0	47.5 ✓

(Air valve sta. 25+25
→

Top of pipe at air valve

Peg 27+50

Peg 15' L 28+00

Rock 8' R 28+50

P
11

	352.52		
29+00		11.9	40.6 ✓
+20		15.6	36.9 ✓
+24		17.1	35.4 ✓
+27		15.7	36.8 ✓
+50		13.8	38.7 ✓
B.M. 7		8.10	349.12 ✓
+80		9.9	42.6 ✓
30		6.4	46.1 ✓
+18		1.3	51.2 ✓
+26		9.7	51.8 ✓
T.P.		0.37	352.15 ✓
	1302	365.17	
+55		5.0	60.2 ✓
+69		0.4	64.8 ✓
T.P.		0.30	367.87 ✓
	1305	377.92	
31		6.1	71.9 ✓
+23		0.5	77.4 ✓
T.P.		0.47	377.45 ✓
	12.72	390.17	
+56		9.2	81.0 ✓
+80		9.5	80.7 ✓
32		11.6	78.6 ✓
T.P.		1301	377.16 ✓

40.6
8.9
49.5

10

about 8' clearance

Nail in sill of Trestle at Sta 29+27

Peg 30+28

Peg 30+69

Peg 31+23

Peg 32+10

L.P.
N

	390.17		
T.P. (to air valve)	0.15	390.02	
10.10	400.12		
BM "8" (100)	2.65	397.47	
	1.1	395.7	
		387.16	
	0.95	378.11	
32+25	3.8	74.3	
+10	6.1	72.0	
+60	11.2	66.9	
+68	12.8	65.3	
T.P.	12.81	365.30	
4.31	369.61		
+75	7.0	62.6	
+93	11.1	58.5	
33	13.2	56.7	
+12	17.1	52.5	
+14	18.7	50.9	
+17	16.4	53.2	
+36	12.8	56.8	
BM "9"	5.39	364.22	
12.53	376.75		
+58	13.1	63.7	
+83	4.5	372.3	
		62.3	
+88	5.9	70.9	

Air valve sta 31+83
Top of pipe at air valve

Peg 32+10 (see page 10)

Peg 32+68

Nail in sill of Trestle sta. 33+36

		376.75		
T.P.	13.06	387.98	183	374.92
33+97			11.0	77.0
34			9.9	78.1
+10			7.5	80.5
+25			5.2	82.8
T.P.			0.99	386.99
	13.06	400.05		
+52			9.7	90.9
+72			3.7	96.4
+80			2.7	97.4
+85			2.2	97.9
T.P.			2.09	397.96
	11.09	409.05		
35			11.1	98.0
B.M. 10 ("99)			8.63	400.42
			11.6	397.5
+15			8.4	400.7
+70			7.2	401.9
+45			6.1	403.0
+63			6.6	402.5
+90			9.2	399.9
36			9.4	399.7
+10			9.4	399.7
+20			8.1	401.0
+30			7.9	401.2

Rock 3' L. 33+93

Peg 34+39

Peg 35+00

Air valve Sta. 35+10
Top of pipe at valve

v r p
w

	409.05			
36+55		5.3	403.8	✓
+65		5.5	403.6	✓
+90		8.1	401.0	✓
37		8.5	400.6	✓
+14		10.6	398.5	✓
T.P.		12.83	396.22	✓
	0.59		396.81	✓
+37		7.9	88.9	✓
+55		9.1	87.7	✓
T.P.		12.67	384.14	✓
	0.57		384.71	✓
+75		4.7	80.0	✓
+90		13.0	71.7	✓
T.P.		12.86	371.85	✓
	0.45		372.30	✓
38		4.8	67.5	✓
T.P.		12.70	359.60	✓
	0.28		359.88	✓
+50		10.4	49.5	✓
T.P.		12.71	347.17	✓
	0.60		347.77	✓
+83		8.9	38.9	✓
T.P.		12.82	334.95	✓
	0.60		335.55	✓
39		1.5	34.1	✓

Peg 37+18

Peg 37+65

Peg 37+90

Peg 38+21

Peg 38+58

Peg 38+97

	335.55			
39+10		4.1	331.5	✓
+90		11.8	323.8	✓
T.P.		12.83	322.72	✓
	0.94		323.16	
+60		4.1	19.1	✓
+65		8.6	14.6	✓
+70		10.7	12.5	✓
+78		7.6	45.6	✓
40		12.1	11.1	✓
T.P.		12.56	310.60	✓
	0.52		311.12	
+17		3.2	07.9	✓
+35		7.6	03.5	✓
T.P.		12.54	298.28	✓
	0.70		298.98	
+34		2.8	96.2	✓
41		9.1	89.9	✓
T.P.		12.91	286.07	✓
	1.03		287.10	
+50		7.2	79.9	✓
+67		9.9	77.2	✓
T.P.		12.89	274.21	✓
	0.41		274.62	
+80		1.5	273.1	✓
+90		8.7	266.4	✓

Peg 3'L. 39+40

Bot. of wash

Rock R.R. 40+04

Peg 40+62

Peg 41+17

Peg 41+78

7/19/29

Bottom Salt Canyon

+53

✓ T.P.
W

	274.62 ✓		
42		8.4	266.2 ✓
B.M. # 11		5.13	269.49 ✓
+ 31		8.4	266.2 ✓
+ 45		5.6	269.0 ✓
+ 50		5.0	269.6 ✓
43		4.6	270.0 ✓
T.P.		4.55	270.07 ✓
	5.75	275.82	
+ 50		5.3	270.5 ✓
44		4.9	270.9 ✓
+ 50		4.7	271.1 ✓
+ 80		3.7	272.1 ✓
45		1.0	273.8 ✓
T.P.		0.43	275.39 ✓
	12.43	287.82	
+ 50		8.8	279.0 ✓
46		4.2	283.6 ✓
T.P.		0.68	287.14 ✓
	12.73	299.87	
+ 26		12.7	287.2 ✓
T.P.		1.04	298.83 ✓
	12.19	311.02	
+ 71		12.2	298.8 ✓
+ 90		8.8	302.2 ✓
47		8.6	302.4 ✓

Converse }
Simpson } 7/19/29
Good body }
Satgado } 15

Bottom Salt Canyon Clear + Warm
Nail in sill of Trestle # 6 Sta. 41 to 71

Protect upstream site

41+90

42+70

42+30

On P.O.T. hub 43+00

Peg 45+13

Peg 46+26

Peg 46+71

v r P
W

	311.02 ✓		
+25		4.5	306.5 ✓
+43		2.0	308.0 ✓
T.P.		2.32	307.70 ✓
1.87	309.57		
+58		1.2	308.4 ✓
+70		2.2	307.4 ✓
+90		4.2	305.4 ✓
48		6.2	303.4 ✓
+20		11.7	297.9 ✓
T.P.		12.82	296.75 ✓
3.50	300.25		
+50		5.3	295.0 ✓
+75		6.7	293.6 ✓
49		7.7	292.6 ✓
+25		8.4	291.9 ✓
+38		9.9	290.4 ✓
+40		8.0	292.3 ✓
+45		11.0	289.3 ✓
+50		7.5	292.8 ✓
+85		5.7	294.6 ✓
50		3.5	296.9 ✓
B.M. #14		5.28	294.97 ✓
T.P.		0.36	299.89 ✓
12.08	312.97		
+20		10.7	302.3 ✓

Peg 5' L. 47+58

Peg. 48+27

Bottom Canyon

Nail in Sill Trestle #7. 60'R. 49+85

Peg 50+12

V+P.
W

		312.97 ✓		
+40			6.6	306.4 ✓
+55			0.6	312.4 ✓
T.P.			0.62	312.35 ✓
	12.63	324.98		
+70			10.3	314.7 ✓
51			7.2	317.8 ✓
+15			4.0	321.0 ✓
+30			0.2	324.8 ✓
T.P.			0.26	324.72 ✓
	12.90	337.62		
+35			11.6	326.0 ✓
+45			11.2	326.4 ✓
+60			7.8	329.8 ✓
+90			1.0	336.6 ✓
T.P.			0.22	337.40 ✓
	12.63	350.03		
52			10.3	339.7 ✓
+08			8.1	341.9 ✓
+28			2.1	347.9 ✓
+36			1.6	348.4 ✓
T.P.			0.26	349.77 ✓
	12.88	362.65		
T.P.			0.58	362.07 ✓
	12.94	375.01		
+95			9.3	365.7 ✓

Peg. 50+56

Peg. 51+28

Drain ditch from wood store.

Peg. 51+95

Peg. 52+42

Peg. 52+82

v + P.
W

	375.01 ✓		
53		9.2	365.8 ✓
+05		8.7	366.3 ✓
+30		2.4	372.6 ✓
T.P.		0.73	374.78 ✓
	12.91		387.19 ✓
+45		9.0	378.2 ✓
+55		7.4	379.8 ✓
+60		6.3	380.9 ✓
+70		5.5	381.7 ✓
+75		5.3	381.9 ✓
+85		5.1	382.1 ✓
54.		3.1	384.1 ✓
+20		1.5	385.7 ✓
+25		0.8	386.4 ✓
T.P.		0.78	386.41 ✓
	12.64		399.05 ✓
+50		11.0	388.0 ✓
+75		10.1	388.9 ✓
+90		10.0	389.0 ✓
55		8.8	390.2 ✓
+20		9.6	389.4 ✓
+50		9.5	389.5 ✓
56		9.9	389.1 ✓
+35		9.8	389.2 ✓
+50		8.0	391.0 ✓

Peg 53+37

Peg 54+25

v + P.
N

399.05 ✓

5 +60 3.6 390.4 ✓
 +75 10.4 388.6 ✓
 B.M. # 13 (# 97) 2.19 396.86 ✓
 5.8 393.2 ✓
 T.P. 7.88 389.17 ✓

4.60 393.77 ✓

+85 4.2 389.6 ✓
 57 4.7 389.1 ✓

+50 6.1 387.7 ✓
 +75 6.3 387.5 ✓

58 7.1 386.7 ✓
 5 +75 7.8 386.0 ✓

+50 8.4 385.4 ✓
 +75 9.0 384.8 ✓

+95 9.6 384.2 ✓
 59 9.1 384.7 ✓

+10 9.0 384.8 ✓
 +70 9.7 384.1 ✓

+33 12.7 381.1 ✓
 T.P. 12.71 381.06 ✓

0.65 381.71 ✓

+40 4.1 377.6 ✓
 +55 7.9 373.8 ✓

T.P. 12.57 369.14 ✓
 0.19 369.33 ✓

Air Valve 56+72
 Top W.S. Pipe
 Peg. 56+75

396.86
 .86

 .05

Peg 59+33

Peg 59+75

✓ T.P.
N

		369.33 ✓		
T.P.			12.94	356.39 ✓
	0.50	356.89 ✓		
60			3.0	353.9 ✓
+18			10.4	346.5 ✓
T.P.			12.68	344.21 ✓
	5.07	349.28 ✓		
+48			10.7	338.6 ✓
+55			15.4	333.9 ✓
+61			12.8	336.5 ✓
B.M. #14			8.49	340.79 ✓
T.P.			0.57	348.71 ✓
	12.78	361.49 ✓		
61			9.6	351.9 ✓
+09			6.2	355.3 ✓
+20			1.3	360.2 ✓
T.P.			0.39	361.10 ✓
	12.87	373.97 ✓		
+33			11.0	363.0 ✓
+50			5.0	369.0 ✓
+59			2.1	371.9 ✓
T.P.			0.32	373.65 ✓
	12.93	386.58 ✓		
+83			11.1	375.5 ✓
62			6.6	390.0 ✓
+07			5.3	381.3 ✓

Peg. 59+92

Peg. 60+28

Nail in sill Trestle # 8 60'R sta. 60+76

Peg. 60+90

Peg. 61+24

Peg. 61+67

V.F.P.
N

	386.58 ✓			
62 + 18		1.6	385.0 ✓	
T.P.		0.56	386.02 ✓	
	12.89		398.91 ✓	
+50		11.0	387.9 ✓	
+65		9.7	389.2 ✓	
+90		8.3	390.6 ✓	
63		7.7	391.2 ✓	
+23		7.1	391.8 ✓	
+34		6.2	392.7 ✓	
+50		6.5	392.4 ✓	
+74		7.1	391.8 ✓	
B.M. #15 (#96)		0.39	398.52 ✓ 398.58	
		2.7	396.2 ✓	
64		7.4	391.5 ✓	
+04		7.0	391.9 ✓	
+17		8.5	390.4 ✓	
T.P.		7.97	390.94 ✓	
	59			
	0.61		391.53 ✓	
+32		2.4	389.1 ✓	
+70		5.8	385.7 ✓	
+78		6.7	384.8 ✓	
65		10.8	380.7 ✓	
T.P.		12.90	378.63 ✓	
	0.19		378.82 ✓	
+27		4.6	374.2 ✓	

Peg. 62+27

Air Valve 63+96

Top. W.S. Pipe

on P.I. Hub 64+20⁷⁰

Peg. 65+08

398.58
- .04

✓ P
IN

	378.84		
65+50		10.7	368.1
T.P.		12.59	366.23
0.63	366.86		
+66		4.0	362.9
+82		9.0	357.9
T.P.		12.78	354.08
0.48	354.56		
66		1.6	353.0
+23		9.4	345.2
+29		11.1	343.5
T.P.		12.50	342.06
0.45	342.51		
+41		5.9	336.6
+43		8.7	333.8
+48		10.2	332.3
T.P.		12.74	329.77
0.63	330.40		
+73		6.9	323.5
T.P.		12.70	317.70
2.67	320.37		
67		3.7	316.7
+35		7.3	313.1
+47		9.5	310.9
+56		13.6	306.8
B.M. #16		6.45	313.97

Peg. 65+57

Peg. 65+96

Peg. 66+32

Peg. 66+53

Peg. 66+97 1'R ±

add 10' span on East side

Bottom of Canyon

Nail in sill of Trestle # 9 - 60' R 67+56

v.s.p._N

	320.37		
67+60		9.9	310.5 ✓
+69		6.6	313.8 ✓
T.P.		0.43	319.94 ✓
12.71	332.65		
+75		11.1	321.6 ✓
68		3.0	329.7 ✓
T.P.		0.36	332.29 ✓
12.87	345.16		
+22		4.4	340.8 ✓
+25		1.3	343.9 ✓
T.P.		0.18	344.98 ✓
12.95	357.93		
+36		9.2	348.7 ✓
T.P.		0.20	357.73 ✓
12.87	370.60		
+70		8.5	362.1 ✓
69		0.8	369.8 ✓
T.P.		0.10	370.50 ✓
12.38	382.88		
+32		3.8	379.1 ✓
T.P.		0.48	382.40 ✓
12.52	394.94		
+52		11.2	383.7 ✓
+85		3.9	391.0 ✓
+89		3.2	391.7 ✓

Peq. 67+72

Peq. 68+05

Peq. 68+28

Peq. 68+57

Peq. 69+02

Peq. 69+46

✓ P.
N

	394.97 ✓			
70		2.0	392.9 ✓	
B.M. #17 (#95) T.F.		5.00	389.97 ✓	389.90
	7.44		397.36 ✓	
		9.8	387.6 ✓	
+25		2.0	395.4 ✓	
+50		2.2	395.2 ✓	
+64		3.2	394.2 ✓	
+75		5.2	392.2 ✓	
+84		7.1	390.3 ✓	
71		11.4	386.0 ✓	
T.P.		12.74	384.62 ✓	
	0.63		385.25 ✓	
+15		4.0	381.3 ✓	
+20		7.0	378.3 ✓	
T.P.		12.85	372.40 ✓	
	0.61		373.01 ✓	
+40		7.9	365.1 ✓	
+53		12.7	360.3 ✓	
T.P.		12.71	360.30 ✓	
	0.39		360.69 ✓	
+70		7.3	353.4 ✓	
+80		12.8	347.9 ✓	
		2.8	357.9 ✓	
T.P.		12.71	347.98 ✓	
	0.57		348.50 ✓	

Reheated
 7/20/29
 page 67

7/20/29
 Converse
 Simpson
 Good body
 Salgado
 Clear + Warm.
 Sta. 71 to

Air Valve 60'R 70+45

Top of W.S. Pipe at Air Valve

Peg 71+04

Peg 71+28 - 2'R.

Peg 71+53

Top W.S. Pipe Center Trestle #10 72+20

✓ P.
 M

348.50 ✓

72		8.6	339.9	✓
+20		14.3	334.2	✓
+25		15.4	333.1	✓
+45		12.7	335.8	✓
B.M. # 18		5.18	343.32	✓
+50		12.4	326.7	✓
+60		8.8	339.7	✓
+80		0.0	348.5	✓
T.P.		0.29	348.21	✓

12.88 361.09 ✓

73		7.8	358.3	✓
+05		1.2	359.9	✓
T.P.		0.31	360.78	✓

12.359 373.13 ✓

+15		10.7	362.4	✓
+20		9.7	363.9	✓
+35		3.7	369.4	✓
+40		2.4	370.7	✓
T.P.		0.62	372.51	✓

12.67 385.18 ✓

+50		9.3	376.9	✓
+60		6.9	378.3	✓
+75		3.3	381.9	✓
T.P.		0.32	384.88	✓

13.08 397.94 ✓

for rechecked page 68

Bottom Canyon.

Nail in Cross Brace Trestle # 10. 72+20

Peg 72+78

Peg 73+07

Peg 73+39

Peg 73+80

r r p.
w

397.94 ✓
 73+95 4.6 393.3 ✓
 74 7.0 390.9 ✓
 +10 5.8 392.7 ✓
 +25 0.4 397.5 ✓
 T.P. 0.37 397.57 ✓

12.62 410.19 ✓

Peg 74+26

+30 11.6 398.6 ✓
 +45 11.0 399.2 ✓
 +55 2.0 408.2 ✓
 +60 1.2 409.0 ✓
 +67 1.9 408.3 ✓
 +78 4.2 406.0 ✓
 +85 3.2 407.0 ✓
 T.P. 0.34 409.85 ✓

12.41 422.76 ✓

Peg 74+95 - 1' L.

75 11.6 410.7 ✓
 +10 9.4 412.9 ✓
 +20 8.9 413.4 ✓
 +30 7.1 415.2 ✓
 +40 6.2 416.7 ✓
 T.P. 3.08 419.18 ✓

5.38 424.56 ✓

Peg 75+50

+60 3.4 421.2 ✓
 +70 1.8 422.8 ✓
 +80 4.4 420.2 ✓

V.P.
AV

	424.56		
+90		3.8	420.8 ✓
76		4.2	420.4 ✓
+30		5.0	419.6 ✓
+50		3.0	421.6 ✓
+60		4.6	420.0 ✓
+80		6.5	418.1 ✓
77		9.1	415.5 ✓
T.P.		12.60	411.96 ✓
	0.87	412.77	
+50		4.7	408.1 ✓
+60		5.4	407.4 ✓
+65		6.7	406.7 ✓
+90		8.3	404.5 ✓
78		12.5	400.2 ✓
T.P.		12.72	400.05 ✓
	1.19	401.24	
B.M.# 19 (#94)		2.10	399.14 ✓
		5.2	396.0 ✓
		7.2	394.0 ✓
+05		4.0	397.2 ✓
+10		4.3	396.9 ✓
+25		7.8	398.4 ✓
T.P.		12.67	388.57 ✓
	0.33	388.90	
+45		6.6	382.3 ✓

found section
for vol 290
page 69 & 65

Peg 77+27

Peg 78+01

Top Air Valve 77+27 399.¹⁴₀₀
 Top W.S. Pipe
 Top W.S. Pipe Center Trestle #11. 78+00

Peg. 78+33

V.P.
M

	388.90 ✓		
+53		7.3	379.6 ✓
+65		12.7	376.2 ✓
T.P.		12.76	376.14 ✓
	0.24		376.38 ✓
+75		3.9	372.5 ✓
+95		11.6	364.8 ✓
T.P.		12.161	363.77 ✓
	1.15 ✓		364.8 ✓
79		2.0	362.9 ✓
+20		5.9	359.0 ✓
+40		5.2	359.9 ✓
+55		3.5	361.4 ✓
+75		3.8	361.2 ✓
80		6.0	358.9 ✓
+28		9.6	355.3 ✓
T.P.		12.06	352.83 ✓
	1.27		354.10 ✓
+60		6.1	348.0 ✓
T.P.		12.91	341.19 ✓
	1.61		342.80 ✓
81		3.8	339.0 ✓
+20		9.1	333.9 ✓
+45		13.7	329.1 ✓
B.M. #20		9.88	332.92 ✓
		+12.0	354.8 ✓

Removal location
See Tol 270 page 66

Peg 78+66

Peg 79+00 1' L

Bottom Short Draw
not important

deep cut needed
as side slope
is great

Top Hub P.T. 80+36 66

Peg 80+91 1' R

Nail in Sill Trestle #12

Top W.S. Pipe Center Trestle #12

81+40

81+40 P.
V & M

	342.80		
81+50		18.7	324.1 ✓
+55		13.5	329.3 ✓
+75		9.8	333.2 ✓
82		3.5	339.3 ✓
+10		0.5	342.3 ✓
T.P.		0.47	342.33 ✓
	12.78		355.11 ✓
+25		9.3	345.8 ✓
+50		0.0	355.1 ✓
T.P.		0.24	354.87 ✓
	12.53		367.40 ✓
+75		4.7	362.9 ✓
+85		2.2	365.7 ✓
T.P.		0.44	366.96 ✓
	12.47		379.43 ✓
83		12.1	367.3 ✓
+25		8.5	370.9 ✓
+50		3.7	375.9 ✓
T.P.		0.58	378.85 ✓
	12.86		391.71 ✓
+75		11.8	379.9 ✓
84		8.4	383.3 ✓
+25		4.8	386.9 ✓
+50		2.8	388.9 ✓
T.P.		2.83	388.88 ✓

Bottom Canyon.

Peg 82+12

Peg 82+48

Peg 82+99

Peg 5' L. 83+75

Top

Peg 84+50

388.91 Elliott =
388.88 Simpson =

✓ P. M.

T.P.			388.88 ✓
	10.32 ✓	399.20 ✓	
+75		9.1	390.1 ✓
85		7.4	391.8 ✓
B.M.#21 (#93)		6.79	392.41 ✓
		8.5	390.7 ✓
+25		7.2	392.0 ✓
+50		6.2	393.0 ✓
+75		7.3	391.9 ✓
86		7.0	392.2 ✓
+25		6.8	392.4 ✓
+50		6.4	392.8 ✓
+75		7.3	391.9 ✓
87		7.2	392.0 ✓
+25		7.1	392.1 ✓
+50		7.3	391.9 ✓
+75		6.6	392.6 ✓
$\frac{87+98.96}{84+58.48}$	"A" Line =	6.9	392.3 ✓
	"P" Line =		
88+30		6.0	393.2 ✓
+50		6.7	392.5 ✓
89		6.6	392.6 ✓
+50		7.3	391.9 ✓
90		7.8	391.4 ✓
+25		8.4	390.8 ✓
+62		8.2	391.0 ✓

Top Air Valve. 84+20
 Top W. S. Pipe.

V.R.
 W

399.20 ✓

	+74	10.3	388.9 ✓
91		11.8	387.4 ✓
8	+21	14.4	384.8 ✓ <small>✓ 7/15/14</small>

Continued in Book #276 Page #2

8 76. make deep cut to pass
depression ahead

8 103-00 fix wing like old Trestle
straighten channel

110± unimportant

119+70± " "

8 119-70± fix as 105±

129+20± unimportant

141-50± straighten channel by wing in East bank



Arroyo drains large area soil of fine base sand
boxed in channel with wing walls

west side of



Profile of "P" Line
U.S.G.S. Datum

Abandoned.

BM*2.

399.53

2.52 402.05 ✓

2+29.76

P.C. "A" Line

3.6 398.4 ✓

+40.23

P.C. "P" "

1.6 400.4 ✓

+50

1.1 400.9 ✓

+75

3.1 398.9 ✓

3+00

4.7 397.3 ✓

+25

7.6 394.4 ✓

+50

9.9 392.1 ✓

+75

12.3 389.7 ✓

4+00

13.2 388.8 ✓

T.P.

13.00 389.05 ✓

0.88 389.93 ✓

4+25

3.2 386.7 ✓

4+54.40

P.C.

4.7 385.2 ✓

+77

5.0 384.9 ✓

5+00

6.4 383.5 ✓

+36

9.0 380.9 ✓

+64

9.3 380.6 ✓

6+00

12.9 377.0 ✓

T.P.

12.76 377.17 ✓

0.77 377.94 ✓

+50

4.7 373.2 ✓

7+00

6.5 371.4 ✓

July 19, 1929

Hill.

Elliott & Notes

Walton

32

Top of A.Y.

Start of "P" line

Peg 15' Rt. of Sta 4+25

Peg E at Sta 6+00

	377.94		
7+50		7.1	370.8 ✓
+72		7.4	370.5 ✓
8+00		12.1	365.8 ✓
+21		17.3	360.6 ✓
+62		9.0	368.9 ✓
9+00		8.3	369.6 ✓
+23		10.8	367.1 ✓
T.P.		12.96	364.98 ✓
	0.04	365.02	
+51		5.4	359.6 ✓
T.P.		12.94	352.08 ✓
	0.26	352.34	
T.P.		12.94	339.40 ✓
	1.23	340.63	
10+00		6.7	333.9 ✓
+21		18.0	322.6 ✓
+39		26.0	314.6 ✓
+51		30.0	310.6 ✓
+511 ✓		27.9	312.7 ✓
+71		25.4	315.2 ✓
+82		20.7	319.9 ✓
11+00		13.2	327.4 ✓
+33		2.8	337.8 ✓
T.P.		0.56	340.07 ✓
	12.36	352.43	

Gulley

Peg on $\&$ at Sta 9+33Peg on $\&$ at Sta 9+65Peg on $\&$ at Sta 9+90Peg on $\&$ at Sta 11+37✓
JMN

	352.43 ✓		
T.P.		0.49	351.94 ✓
12+97	364.91 ✓		
+68		6.8	358.1 ✓
+80		3.2	361.7 ✓
T.P.		0.40	364.51 ✓
11.97	376.48 ✓		
12+00		10.7	365.8 ✓
+50		6.0	370.5 ✓
13+00		3.0	373.5 ✓
+50		2.7	373.8 ✓
T.P.		7.34	369.14 ✓
3.81	372.95 ✓		
14+00		0.3	372.7 ✓
+50		3.2	369.8 ✓
15+00		6.2	366.8 ✓
+50		8.2	364.8 ✓
16+00		8.8	364.2 ✓
+35		8.9	364.1 ✓
+53		11.3	361.7 ✓
+85		11.8	361.2 ✓
T.P.		12.82	360.13 ✓
0.35	360.48 ✓		
17+00		1.1	359.4 ✓
+21		4.3	356.2 ✓

Peg on Φ at Sta 11+54

Peg on Φ at Sta 11+95

Peg 6' L + Sta 13+67

Peg Φ Sta 16+95

✓
n

	360.48 ✓		
17+47		10.6	349.9 ✓
T.P.		12.97	347.51 ✓
1.23	348.72 ✓		
+67		6.6	342.1 ✓
+80		13.1	335.6 ✓
T.P.		12.99	335.75 ✓
0.70	336.45 ✓		
18+00		11.5	325.0 ✓
T.P.		12.90	323.55 ✓
0.96	324.51		
+32		13.3	311.2 ✓
T.P.		13.01	311.50 ✓
0.22	311.72		
T.P.		12.90	298.82 ✓
4.86	303.68		
BM #5		10.16	293.52 ✓ ^{Record} 293.48
19+00		15.9	287.8 ✓
+36		22.2	281.5 ✓
+39		23.4	280.5 ✓
+44		22.2	281.5 ✓
+56		20.1	283.6 ✓
20+00		5.8	297.9 ✓
T.P.		0.85	302.83 ✓
12.28	315.11		

Peg on & Sta 17+62

Peg on & Sta 17+80

Peg on & Sta 18+03

Peg on & Sta 18+32

Peg on & Sta 18+63

Spike in Trestle.

Draw

Peg on & 20+12

✓
2

		315.11		
T.P.			0.24	314.87 ✓
	12.29	327.16 ✓		
20+67			0.2	327.0 ✓
T.P.			0.18	326.98 ✓
	12.32	339.30 ✓		
21+00			0.9	338.4 ✓
T.P.			0.32	338.98 ✓
	12.91	351.89 ✓		
+18			7.3	344.6 ✓
T.P.			0.38	351.51 ✓
	12.88	364.89 ✓		
+66			6.6	357.8 ✓
22+00			2.6	361.8 ✓
T.P.			0.53	363.86 ✓
	10.89	374.75 ✓		
+75			5.1	369.7 ✓
23+00			4.4	370.4 ✓
+50			6.5	368.3 ✓
+75			6.3	368.5 ✓
24+00			7.6	367.2 ✓
+50			8.3	366.5 ✓
25+00			6.9	367.9 ✓
+43			7.1	367.7 ✓

Reg # at Sta 20+40

" " " " 20+64

" " " " 21+02

Top of Rock Sta 21+43

Reg # 22+10

	374.75 ✓		
25+62		6.0	368.8 ✓
+80		7.5	367.3 ✓
26+00		7.3	367.5 ✓
+45		8.5	366.3 ✓
+75		7.2	367.6 ✓
27+00		7.9	366.9 ✓
+25		7.0	367.8 ✓
+50		5.3	369.5 ✓
+65		4.9	369.9 ✓
28+00		7.2	367.6 ✓
+26		11.6	363.2 ✓
+42		12.9	361.9 ✓
T.P.		12.86	361.89 ✓
	0.33	362.22 ✓	
+75		5.5	356.7 ✓
29+00		12.4	349.8 ✓
T.P.		12.98	349.24 ✓
	2.71	351.95 ✓	
B.M. #9		7.83	344.12 ✓
+50		12.7	339.2 ✓
		12.92	339.08 ✓
	1.13	340.16 ✓	
30+00		12.7	327.5 ✓
T.P.		13.08	327.08 ✓
	1.31	328.39 ✓	
+50		7.5	320.9 ✓

Record
344.12

Peg in # at Sta 28+42

" " " " " 29+02

Spike in Trestle #4

Peg in # 29+50

" " " 30+04

✓
w

		328.39 ✓		
+85			12.4	316.0 ✓
+96			16.2	312.2 ✓
31+00			14.3	314.1 ✓
+27			10.8	317.6 ✓
+63			9.1	319.3 ✓
32+00			10.8	317.6 ✓
+15			11.3	317.1 ✓
+21			12.7	315.7 ✓
+27			10.0	318.4 ✓
+50			5.2	323.2 ✓
TP			0.66	327.73 ✓
	12.44	340.17		
33+00			2.0	338.2 ✓
			0.21	339.96 ✓
	12.40	352.36		
+35			1.7	350.7 ✓
TP			0.52	351.84 ✓
	12.07	363.91		
+66			6.4	357.5 ✓
34+00			1.9	362.0 ✓
TP			0.52	363.39 ✓
	0.92	364.31		
+31			1.0	365.3 ✓

Draw

Draw

Dig in at Sta 32+65

" " " " " 33+06

" " " " " 33+41

" " " " " 34+22

	364.31		
35+00		2.9	361.4 ✓
+61		5.0	359.3 ✓
36+00		7.5	356.8 ✓
+25		8.6	355.7 ✓
+40		10.5	353.8 ✓
+56		10.6	353.7 ✓
+82		12.4	351.9 ✓
T.P.		12.92	351.39 ✓
	1.22	352.61 ✓	
37+00		5.1	347.5 ✓
T.P.		12.90	339.71 ✓
	0.14	339.85 ✓	
T.P.		12.92	326.93 ✓
	1.93	328.86 ✓	
T.P.		12.91	315.95 ✓
	0.57	316.52 ✓	
38+00		3.7	312.8 ✓
T.P.		12.95	303.57 ✓
	1.23	304.80 ✓	
+50		5.7	299.1 ✓
T.P.		13.01	291.79 ✓
	0.82	292.61 ✓	
39+00		7.3	285.3 ✓
T.P.		13.04	279.57 ✓
	1.73	281.30 ✓	

Peg \pm at Sta 36+85

" " " " 37+95

Top of Rock at Sta 37+60

Peg \pm at Sta 37+92

" " " " 38+35

" " " " 38+75

Top of Rock \pm Sta 39+25

281.30 ✓

39+31 2.9 278.4 ✓

40+00 10.3 271.0 ✓

12.99 268.31 ✓

2.40 270.71 ✓

+50 3.7 267.0 ✓

41+00 5.0 265.7 ✓

+24 7.2 263.5 ✓

+31 10.2 260.5 ✓

+48 11.2 259.5 ✓

+60 10.8 259.9 ✓

+67 8.1 262.6 ✓

42+00 6.8 263.9 ✓

+50 5.5 265.2 ✓

43+00 4.2 266.5 ✓

+50 2.5 268.2 ✓

44+00 1.2 269.5 ✓

T.P. 0.87 269.84 ✓

11.29 281.13 ✓

+50 10.8 270.3 ✓

45+00 9.7 271.4 ✓

+50 6.0 275.1 ✓

46+00 3.7 277.4 ✓

T.P. 0.33 280.80 ✓

13.01 293.81 ✓

+50 10.6 283.2 ✓

Peg on E. at Sta 40+32

Draw.

Peg E Sta 44+05.

" " " 46+31.

		293.81 ✓		
47+00			1.8	292.0 ✓
T.P.			0.35	293.46 ✓
	13.04	306.50 ✓		
+31			9.2	297.3 ✓
+61			1.8	304.7 ✓
T.P.			1.79	304.71 ✓
	13.03	317.74 ✓		
48+00			3.6	314.1 ✓
T.P.			0.40	317.34 ✓
	13.03	330.37 ✓		
+28			7.5	322.9 ✓
+60			0.5	329.9 ✓
T.P.			0.48	329.89 ✓
	12.55	342.44 ✓		
49+00			3.6	338.8 ✓
T.P.			0.60	341.84 ✓
	12.30	354.14 ✓		
+40			8.1	346.0 ✓
50+00			2.3	351.8 ✓
T.P.			0.14	354.00 ✓
	3.73	357.73 ✓		
+51			2.9	354.8 ✓
51+00			3.7	354.0 ✓
+25			5.6	352.1 ✓
+50			4.8	352.9 ✓

Peg on ϕ Sta 47+06

Rock on ϕ Sta 47+61.

Rock on ϕ Sta 48+12

Rock on ϕ Sta 48+60

Rock on ϕ Sta 49+16

Rock 3'R 50+33.

357.73 ✓

52+00

5.2 352.5 ✓

+50

5.5 351.2 ✓

53+00

5.1 352.6 ✓

+50

5.7 352.0 ✓

54+00

6.0 351.7 ✓

+50

4.8 352.9 ✓

55+00

4.7 353.0 ✓

+50

5.5 352.2 ✓

56+00

5.3 352.4 ✓

+50

7.1 350.6 ✓

57+00

8.4 349.3 ✓

+31

10.3 347.4 ✓

+55

9.7 348.0 ✓

+73

10.9 346.8 ✓

T.P.

12.82 344.91 ✓

0.85 345.76 ✓

B.M. #14

4.99 340.77 ✓

Record
340.79

58+00

2.5 343.3 ✓

+36

13.1 332.7 ✓

T.P.

13.07 332.69 ✓

0.73 333.42 ✓

T.P.

12.46 320.96 ✓

0.17 321.13 ✓

59+00

2.8 318.3 ✓

Point of Rock & 57+85. ✓

Spike in Trestle. ✓

Point of Rock & 58+36. ✓

" " " " 58+90. ✓

	321.13 ✓		
59+40		6.2	314.9 ✓
+80		11.6	309.5 ✓
T.P.		12.95	308.18 ✓
	0.23 308.41 ✓		
60+00		4.0	304.4 ✓
+26		10.3	298.1 ✓
+48		12.9	295.5 ✓
+83		19.4	289.0 ✓
+85		22.0	286.4 ✓
61+00		22.0	286.4 ✓
+10		21.2	287.2 ✓
+40		22.4	286.0 ✓
+73		26.0	282.4 ✓
+75		28.8	279.6 ✓
+83		23.3	285.1 ✓
62+00		18.2	290.2 ✓
+18		13.0	295.4 ✓
+50		3.3	305.1 ✓
T.P.		0.59	307.82 ✓
	12.79 320.61 ✓		
		1.02	319.59 ✓
	12.36 331.95 ✓		
63+00		9.7	322.2 ✓
T.P.		0.49	331.46 ✓
	12.18 343.64 ✓		

July 20, 1929.
Hill.
Elliott & Notes
Walton.

43

Rock on $\&$ at Sta 59+85.

} Draw

Draw.

Peg on $\&$ Sta 62+66.

Rock on $\&$ Sta 62+93.

" " " " 63+23.

	343.64 ✓		
63+34		8.9	334.7 ✓
+65		3.7	339.9 ✓
64+00		1.5	342.1 ✓
T.P.		0.29	343.35 ✓
	12.76	356.11 ✓	
+23		10.4	345.7 ✓
+63		6.9	349.2 ✓
+91		2.1	354.0 ✓
65+00		1.0	355.1 ✓
T.P.		0.98	355.13 ✓
	12.88	368.01	
+38		9.2	358.8 ✓
66+00		5.9	362.1 ✓
+31		4.3	363.7 ✓
+68		3.8	364.2 ✓
67+00		2.3	365.7 ✓
+50		2.5	365.5 ✓
68+00		2.6	365.4 ✓
+55		3.8	364.2 ✓
69+00		6.0	362.0 ✓
+44		10.6	357.4 ✓
T.P.		12.75	355.26 ✓
	1.28	356.54 ✓	
+61		3.6	352.9 ✓

Peg on E Sta 64+10

" " " " 65+00

" " " " 69+54

		356.54 ✓		
T.P.			12.73	343.81 ✓
	0.86	344.67 ✓		
70+00			7.6	337.1 ✓
T.P.			12.74	331.93 ✓
	0.33	332.26 ✓		
+37			10.6	321.7 ✓
T.P.			12.90	319.36 ✓
	1.38	320.74 ✓		
+80			16.1	304.6 ✓
71+00			21.1	299.6 ✓
+08			22.0	298.7 ✓
+12			23.9	296.8 ✓
+17			21.3	299.4 ✓
+38			14.8	305.9 ✓
+73			0.5	320.2 ✓
TP.			0.52	320.22 ✓
	12.70	332.92 ✓		
72+00			2.2	330.7 ✓
T.P.			0.22	332.70 ✓
	13.09	345.79 ✓		
+20			7.3	338.5 ✓
+44			0.5	345.3 ✓
T.P.			0.52	345.27 ✓
	12.97	358.24 ✓		
TP.			0.29	357.95 ✓
	12.45	370.40 ✓		

Peg in & Sta 69+84

Rock on & Sta 70+11.

Peg on & 70+42.

Draw

Peg on & Sta 71+73.

Peg on & Sta 72+05

" " " " 72+44.

	370.40		
+90		9.2	361.2 ✓
73+00		7.6	362.8 ✓
+16		3.2	367.2 ✓
T.P.		0.94	369.46 ✓
	13.04	382.50	
+73		6.7	375.8 ✓
74+00		4.7	377.8 ✓
+50		2.4	380.1 ✓
75+00		1.8	380.7 ✓
+60		1.7	380.8 ✓
76+00		4.8	377.9 ✓
+14		8.0	374.5 ✓
T.P.		12.84	369.66 ✓
	0.18	369.84	
T.P.		12.92	356.92 ✓
	1.19	358.11	
T.P.		13.09	345.02 ✓
	0.33	345.35	
+68		8.1	337.2 ✓
+81		8.2	337.1 ✓
T.P.		12.76	332.59 ✓
	0.98	333.57	
77+00		3.2	330.4 ✓
+41		12.0	321.6 ✓

Top of Rock Sta 73+30.

Peg 5' ht Sta 76+23.

Peg on E Sta 76+40

Peg 6' ht of Sta 76+55.

Peg E Sta 76+95.

	333.57 ✓		
+75		23.2	310.4 ✓
+98		28.1	305.5 ✓
78+00		32.7	300.9 ✓
+04		32.7	300.9 ✓
+09		26.0	307.6 ✓
+51		11.4	322.2 ✓
T.P.		0.36	333.21 ✓
12.91	346.12 ✓		
79+00		7.9	338.2 ✓
T.P.		0.48	345.64 ✓
12.87	358.51 ✓		
+50		6.4	352.1 ✓
T.P.		0.43	358.08 ✓
12.53	370.61 ✓		
80+00		4.4	366.2 ✓
T.P.		0.28	370.33 ✓
12.29	382.62 ✓		
+32		7.6	375.0 ✓
+60		3.4	379.2 ✓
T.P.		0.85	381.77 ✓
12.50	394.27 ✓		
81+00		11.3	383.0 ✓
+25		10.0	384.3 ✓
+50		8.8	385.5 ✓
+75		8.4	385.9 ✓

} Wash

Peg on # 78+84

Peg on Sta 79+29

" " " " " 79+72

" " " " " 80+16

" " " " " 80+85

394.27 ✓

"P" 82+00	7.5	386.8 ✓
+25	6.7	387.6 ✓
+50	5.1	389.2 ✓
"P" 83+00	4.5	389.8 ✓
+50	2.8	391.5 ✓
"P" 84+00	2.5	391.8 ✓
84+58.48 = "P" =	2.0	392.3 ✓
87+98.96 A.P.T. Equation	1.1	393.2 ✓
"A" 88+30	1.8	392.5 ✓
"A" 88+50	1.7	392.6 ✓
89+00	2.4	391.9 ✓
+50	2.9	391.4 ✓
90+00	3.5	390.8 ✓
+25	3.3	391.0 ✓
+62	5.4	388.9 ✓
+74	6.9	387.4 ✓
91+00	9.5	384.8 ✓
+21	5.36	388.91 ✓

End of "P" Line

Peg at Sta 84+50 "A" Line Simpson $\frac{388.98}{.03}$

Alignment - from 7th + Upas, South thru Park

$\Delta = 20^{\circ} 55' 14''$	3+28 ⁴⁰ E.C.	10+27.5
$R = 850'$	3+00	9+30.0
St. = 15690	2+50	7+48.9
L = 31030	2+00	6+07.8
B.C. = 0+18 ⁰	1+50	4+26.7
E.C. = 3+28 ⁴⁰	1+00	2+45.6
def. 1 = 2.022	0+50	1+04.5
def. 50' = 1+41.11	0+18 ⁰ B.C.	

0+18⁰ B.C.

Test hole "A" - 150' at 0+07 (thru Park)

0+00 = Φ of Upas St. line, Sta 90+80

Φ

10/8/41

49

Soper
Brooks
Hedgeson

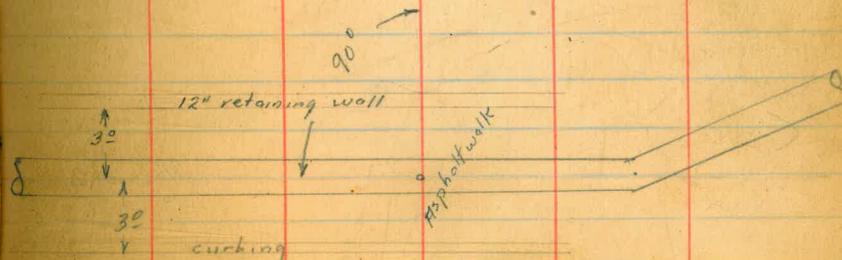
Lawn
Sprinkling system

6" π 1+00 - water hydrant in box
Gravel Walk 0+95
0+84

13' \circ 0+60 - 24" Tree

21' \circ 0+12 - 40" Cypress

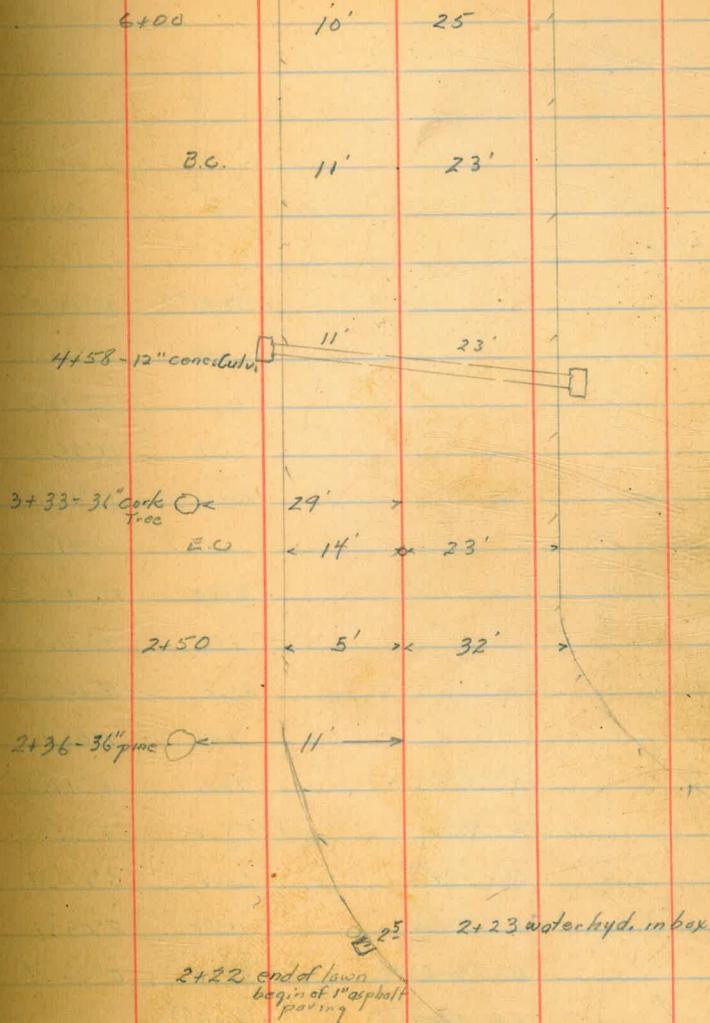
Lawn
Sprinkling system in lawn



Test hole "B", 28 Feb 4474 (thru Park)

4467⁶⁰ B.C.

3128⁴⁰ E.C.

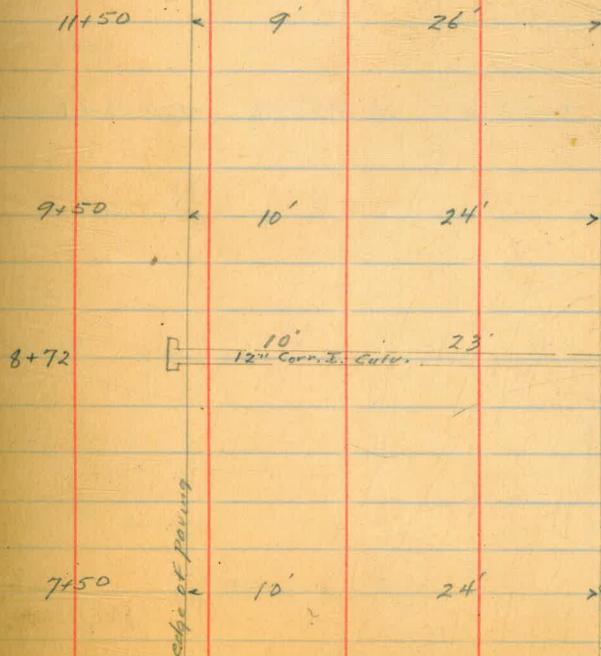


11+91²⁰ E.C.

$\Delta = 36^{\circ}03'84$
 $R = 1150$
 $st. = 374^2$
 $L = 723^c$
 $B.C. = 4+67^60$
 $E.C. = 11+91^{20}$
 $def. 1 = 1.495$
 $def. 56 = 1^{\circ}14'.735$

11+91 ²⁰	18°01.5
+50	16°59.9
11+00	15°45.2
+50	14°30.5
10+00	13°15.7
+50	12°01.0
9+00	10°46.3
+50	9°31.5
8+00	8°16.8
+50	7°02.1
7+00	5°47.3
+50	4°32.6
6+00	3°17.9
+50	2°03.1
5+00	0°48.4
4+67 ⁶⁰	

11+98



A: 15°23'44"	16+53 ⁵⁹	7°41'.5
R=1000'	156	7°35'.3
St. = 135°06'	16+00	6°09'.3
L = 268.49	150	4°43'.4
B.C. = 13+85 ¹⁰	15+00	3°17'.5
E.C. = 16+53 ⁵⁹	150	1°51'.5
def 1' = 1.719	14+00	0°25'.6
def 50' = 1°25'.944	13+85 ¹⁰	

15+50 10' 24' >

15+40 →

Hedge

Test hole "C" 12' at 13+96 (thru Park)

14+00 → 8'

13+85¹⁰ B.C.

B.C. 8' 27' >

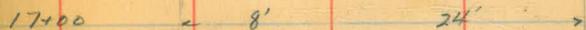
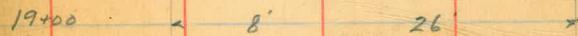
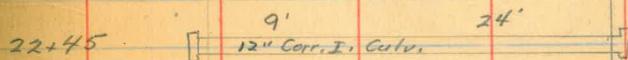
13+79 10' >

mark in road with
Edge of paving

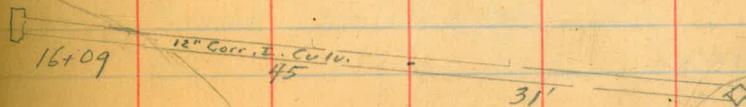
12+76 7' 12° Corr. I. Culv. 25' >

Edge of paving

Test hole "D" 14' H 22+68 (thru Park)



16+53⁵⁹ E.C.



Quince St →

Test hole "E" - 17' Lt 3/1+09 (thru Park)

29+38³⁵ B.C.

27+94¹¹ E.C.

A = 18° 55' 14"	27+94 ¹¹	9° 27' .5
R = 1000'	+50	8° 11' .7
S.A. = 166° 40'	27+00	6° 45' .8
L = 330.16	+50	5° 19' .8
BC = 24+639 ⁵	26+00	3° 53' .8
EC = 27+94 ¹¹	+50	2° 27' .9
defl = 1.719	25+00	1° 01' .9
Arct 50 = 1° 25' .944	24+639 ⁵	

24+639⁵ B.C.

30+50 ← 15 19 →

29+00 ← 10' 23 →

27+96.  7' 25'
12° Conv. E. Curve

27+00 ← 6' 26' →

26+00 ← 7' 25' →

B.C. ← 8 24 →

9/9/41
Super
Brooks
Hodgson

54

⊕

⊕

32+36⁰¹ EC

$\Delta = 18^{\circ} 57' RT$	32+36 ⁰¹	9 ^{028.5}
$R = 900'$	32+00	8 ^{19.7}
St. 150 ³⁰	+50	6 ^{044.2}
$L = 29766$	31+00	5 ^{088.7}
$B.C. = 29+3835$	+50	3 ^{033.2}
$EC = 32+3601$	30+00	1 ^{057.7}
del' = 1.910	+50	0 ^{022.2}
del 50' = 1 ^{035.493}	29+38 ³⁵	

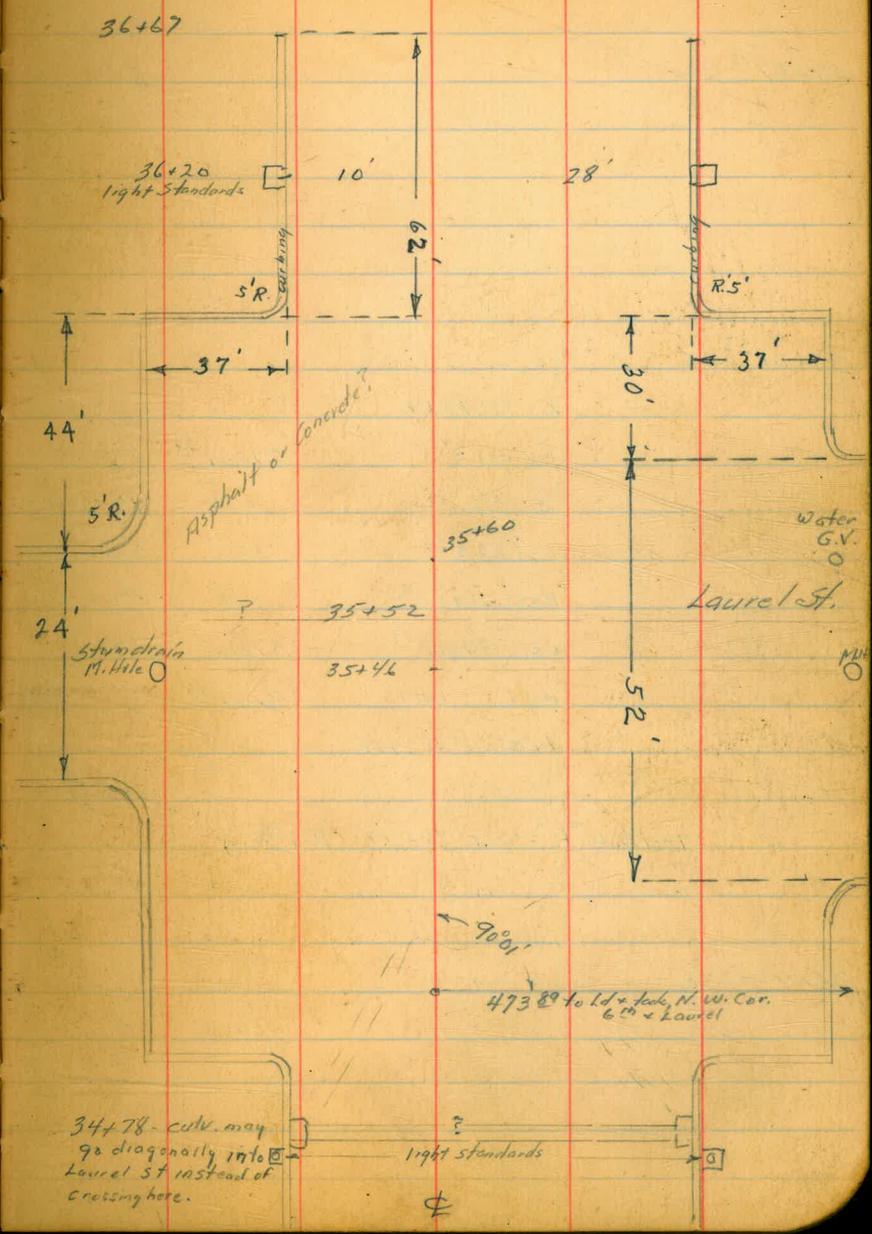
34+30 ← 10' 28' →

34+00 ← 9' 26' →

33+50 ← 9' 24' →

EC. ← 8' 24' →

31+48 [11' 12" Corr. I. Culv. 22']



35+14⁹² P.O.T (on line produced from stacks on N.W. Cor. of 6th & Laurel and N.E. Cor. of 5th & Laurel)

39+87¹⁸ B.C.

39+01²³ E.C.

$$\Delta = 12^{\circ}49'21''$$

$$R = 1000'$$

$$St = 112.32$$

$$L = 223.64$$

$$B.C. = 36+77^{54}$$

$$E.C. = 39+01^{23}$$

$$def 1' = 1.719$$

$$def 50' = 1^{\circ}25'.944$$

$$39+01^{23} \quad 6^{\circ}24'.5$$

$$+50 \quad 4^{\circ}56'.4$$

$$38+00 \quad 3^{\circ}30'.5$$

$$+50 \quad 2^{\circ}04'.5$$

$$37+00 \quad 0^{\circ}38'.6$$

$$36+77^{54}$$

Test hole "F" - 11 ft 38+79 (thru Park)

36+77⁵⁴ B.C.

40+00

9'

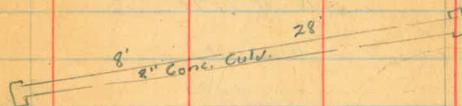
26'

E.C.

8'

25'

37+86



B.C.

10'

27'

edge of paving

42+35⁰⁰ L 47° 30' H

41+84" E.C.

$\Delta = 11^{\circ} 17' 14''$

$R = 1000'$

St. = 98⁷⁹

$L = 196^{\circ} 93''$

B.C. = 39+87¹⁸

E.C. = 41+84"

def. 1 = 1.719

def 50 = 1° 25' 944

41+84" 5° 38'.5

+ 50 4° 39'.8

41+00 3° 13'.9

150 1° 48'.0

40+00 0° 22'.0

39+87¹⁸

58

42+27

5'

20'

E.C.

7'

31'

⊕

9/10/41
Soper
Brooks
Hedgson

43+50

5'

22'

43+40

POWING

Lawn

43+36
24" Eucalyptus

○ 8' >

Testhole "A" - Via Juniper St - 36' RT 43+33

11 5'

○ 43+02
30" Eucalyptus

42+76
24" Eucalyptus

○ 18' >

7 7'

○ 42+69
12" Eucalyptus

42+61
30" Eucalyptus

○ 7 6' >

Lawn

42+48

edge of powing

⊕

46+58⁷⁷ L. 11°15' RT

45+49³⁹ L. 11°15' RT

44+74⁰⁰ L. 24°00' RT

47+00 < 7' 14' >

bisect. L < 4' 17' >

46+00 < 5' 15' >

bisect. L < 3' 18' >

45+00 < 6' 17' >

bisection of angle < 5' 19' >

44+50 < 12' 12' >

44+00 < 15' 7' >

43+86
catch basin, could not
find other end.

□ < 14' >

edge paving

edge of paving

£

60

£

⊕

50+00 ← 5' 15' →

49+57 ← 65' →

6" Steel Culv.

← 153' → 49+26

49+00 ← 5' 14' →

bisect. 4 ← 3' 18' →

47+50 ← 7' 13' →

47+31

12' 6" Steel Culv. 17' culv.

⊕

47+87³¹ ∠ 12° 45' RT

Test hole "B" Via Juniper St route, 7 Lt, 52+95

53+00 < 5' 16' >

52+05 □ < 26' 6" steel Culv. 16' > □

52+00 < 5' 16' >

51+39 3/4" water line

bisect L. < 7' 13' >

50+84 □ 6" 14" steel Culv. 17' □

bisect L. < 8' 12' >
edge of paving edge of paving

51+20 45' L. 11° 30' Lt

50+41 98' L. 11° 01' Lt

9/11/41

Soper
Brooks
Hodgeson

63

57+50 ← 10' → 16' →

57+00 ← 5' → 17' →

56+90 ← 6' →

56+61 ← 4' →

6" Steel Culv.

← 18' → 56+22

E.C. ← 20' → 17' →

55+50 ← 05' → 175' →

55+00 ← 05' → 175' →

54+50 ← 20' → 17' →

← 35' → 16' →

edge of paving

edge of paving

Note: Trees + shrubs are about 10' back from edge of road
 • between stations 54+00 & 57+00, so line was kept
 close to left side

55+81⁴⁸ E.C.

$$A = 10^{\circ}03'RT$$

$$R = 1000'$$

$$ST = 8792$$

$$L = 175.40$$

$$B.C. 54+06.08$$

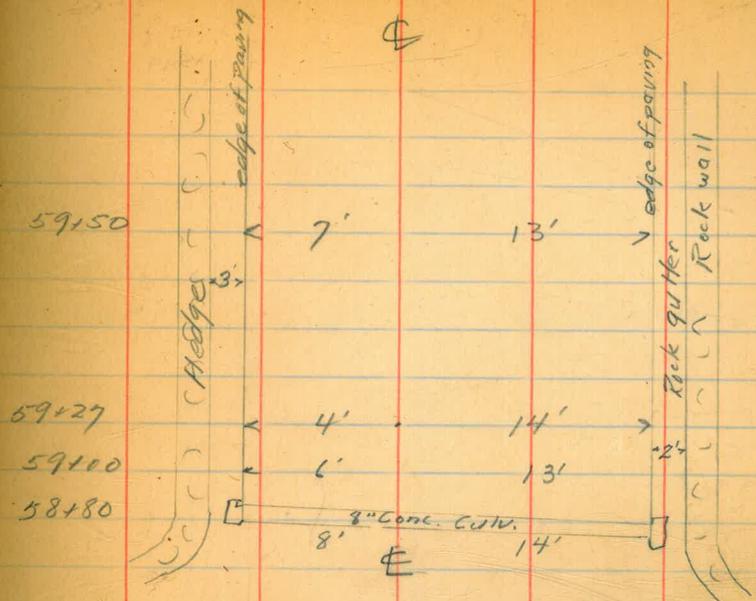
$$E.C. 55+81.48$$

$$\text{def } i = 1.719$$

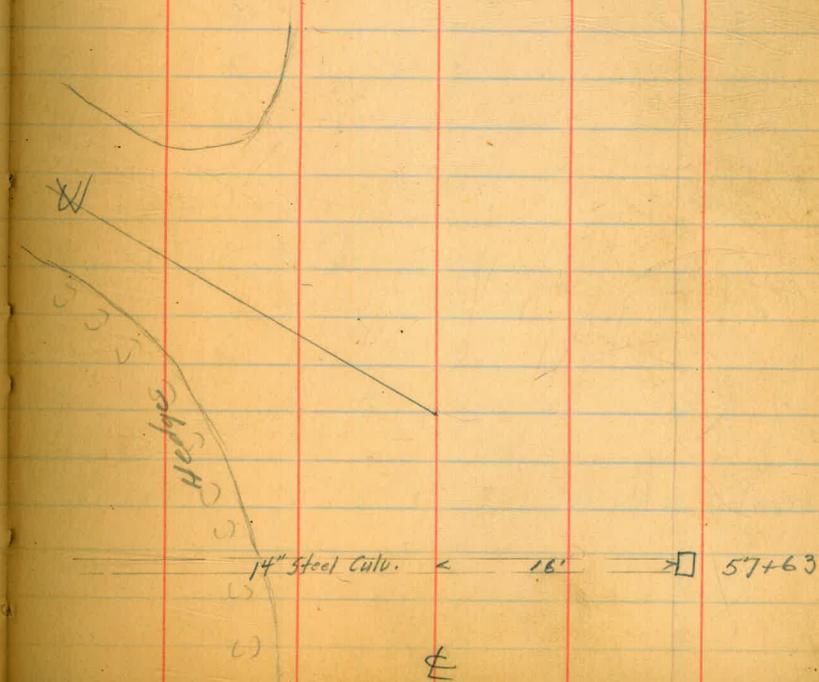
$$\text{def } 50 = 1^{\circ}25'.944$$

54+06.08 B.C.

59+27⁵⁰ L 13°06' RT



57+76⁵⁰ L 75°06' LT



61+45⁰⁰ L. 12°00' RT

60+00⁰⁰ L. 10°00' RT

61+45

60+75

60+50

60+00

3'

17'

23'

14'

7'

13'

5'

15'

Hedge

edge of paving

Rock gutter

Rock wall

edge of paving

63+37⁰⁰ L 10°00' Rt

Test hole "C" - via Juniper St. - 5' - Lt 63+25

62+40⁰⁰ L 13°00' Rt

63+37

63+07

63+00

62+46

62+00

Hedge

3'

8" Cent. Culv.

Rock wall

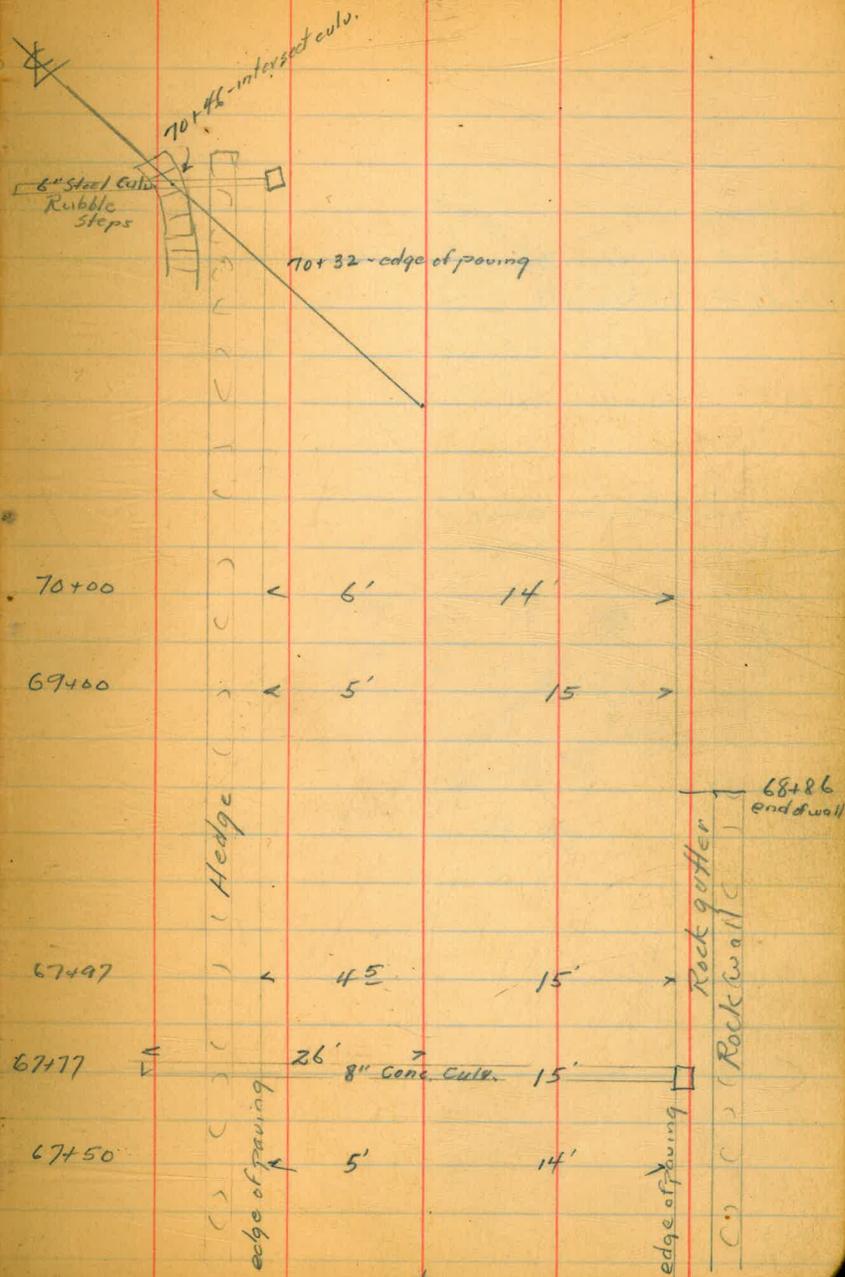
Rock gutter

⊥

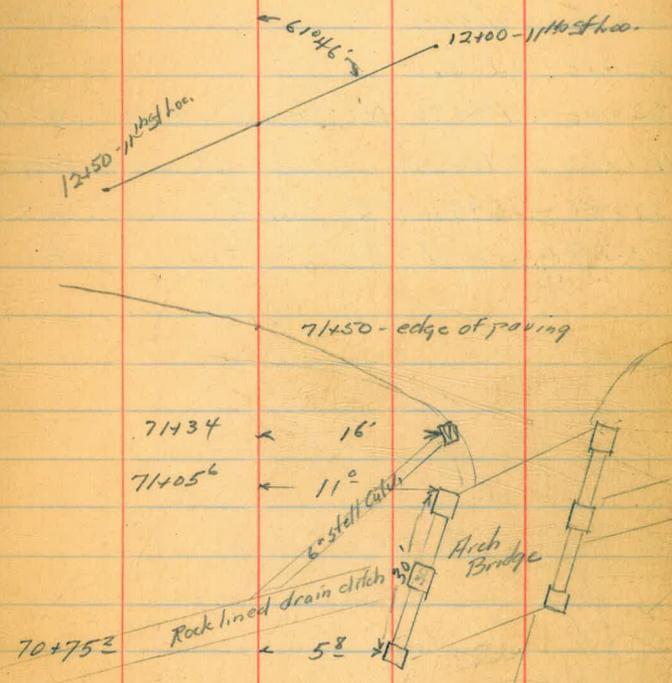
⊥

~~70+21⁰⁰ L. 45° 00' Lt.~~

~~67+97⁰⁰ L. 11° 15' Rt.~~



12+2297 - 11th St loc. Intersect with chord on curve
71+88¹⁵ 61°46' RT



Trees & shrubs near line - 7th & 4th - thru Park

3+50 - 16+00 - Shrubs & trees to edge of road.

16+00 - 22+00 " " " " " " " - Trees hang over road.

22+00 - 32+00 " " " " " " " "

32+00 - 44+50 No shrubs - trees set back

44+50 - 51+00 - Shrubs & trees to edge of road - Trees hang over

51+00 - 56+90 - No shrubs - trees back 10' from edge

56+90 to end shown in Transit notes.

Line revision - 11th St. alternate 65+87 - 72+74

67+53⁶⁵ L 21° 12' Rt.

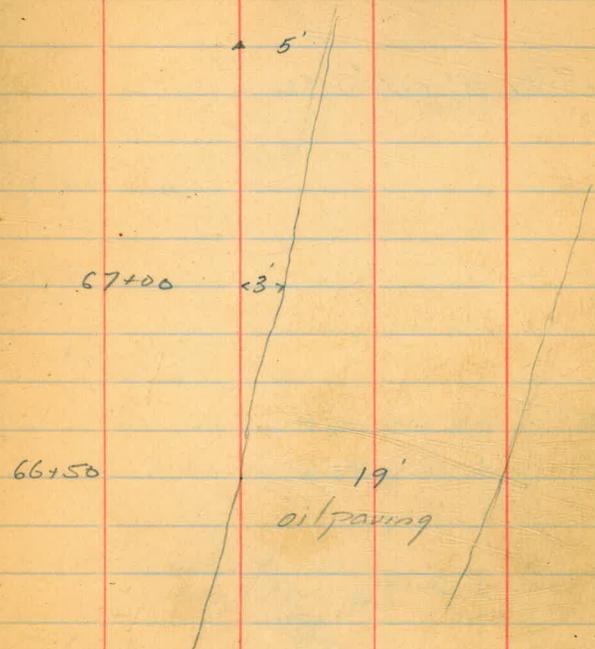
65+87⁰⁰ L 22° 00' Lt

63+37 L 10° 00' Rt

11/24/41

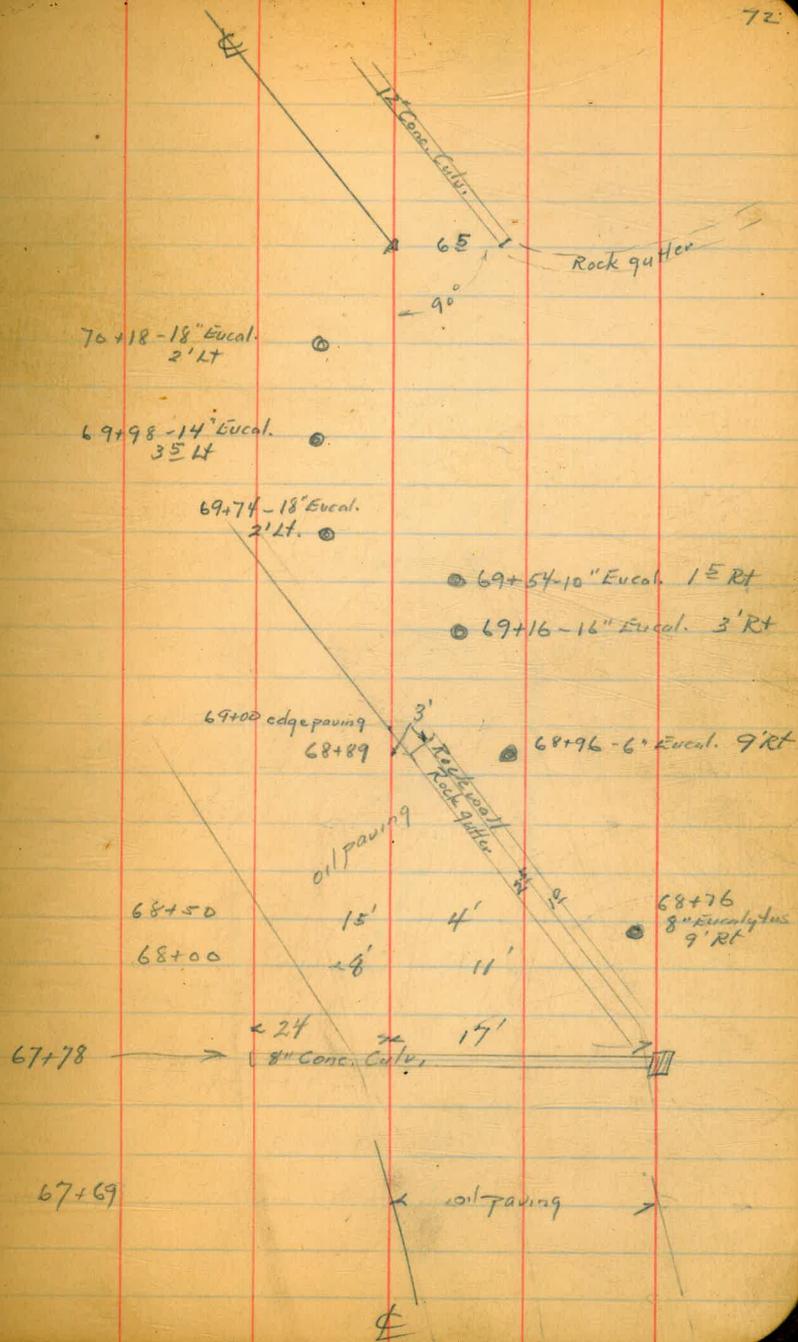
Soper
Hedgeson
Davis

71



Note: culvert x-ing shown on page 67

70+22.70 L 33°00' Lt



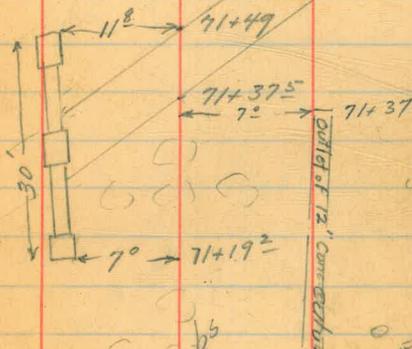
11/25/41

73

Saper
Hedgesson
Dahms

shrubs

Rock lined
drain ditch



Eucalyptus grove

oil
paving

70+75 - 30' dirt road.

70+36 - 6" Eucal. stump
1" ht.

E

11+11.90 ahead (11th St loc)
72+74³⁰ back L. 45° 58' Rt.



oil paving 72+67 edge of oil paving

72+61

Dirt path 72+50

56 rods

⊕

Profile, line revision 65+87-72+74

Cont'd from book 574 page 31

B.M.	448	124.75		120.27	✓
65+87			2.3	122.5	✓
66			3.3	121.5	✓
+50			6.8	118.0	✓
67			9.3	115.5	✓
+50			12.3	112.5	✓
+53.65			12.4	112.4	✓
TP	0.11	112.10	12.76	111.99	✓
			4.2	107.9	✓
			6.6	105.5	✓
68			2.9	109.2	✓
+50			6.2	105.9	✓
69			9.2	102.9	✓
+50			11.3	100.8	✓
70			12.6	99.5	✓
TP	1.46	100.46	13.10	99.00	✓
70+22 ⁷⁰			1.6	98.9	✓
			3.9	96.6	✓
70+50			3.2	97.3	✓
71			4.8	95.7	✓
+18			5.9	94.6	✓
71+37 ⁵			13.3	87.2	✓
			12.1	88.4	✓
71+37.5			18.3	82.2	✓

Book 574-39

Stake in ground west end of culv. bed wall Book 574-32

Fl. line 8" Conc. Culv. 17' Rt 67+78

" " " " 24' Rt "

Fl. line 12" Conc. Culv. 6⁵ Rt 70+22

Top of rock wall

Fl. line 12" Conc. Culv. 7' Rt 71+37

In drain ditch

100.46

71449			18.3	82.2	✓
71449			13.3	87.2	✓
+70			8.3	92.2	✓
72			6.6	93.9	✓
TR	2.60	97.77	5.29	95.17	✓
+50			3.4	94.4	✓
$\frac{72474}{11+1190} = 30$			4.1	93.7	✓

In drain ditch
Top of rock wall

ck on B.M. 9.00 88.77 (Rec. 88.73)

Culv. hdwall 50' Lt 5+50 (11th St loc.)

DIRECTIONS FOR USE OF TABLES

TABLE No. 1.

Distance of slope stake from side or shoulder
stake for any width roadway, slope $\frac{1}{2}$ to 1.
If ground is nearly level, the cut or fill at side
stake is located by the double entry method in
left column and top row. The number in body

of table in same row and column gives distance
from side stake to slope stake. If ground is not

IMPROVED TABLES
AND
INFORMATION

TABLE No. 2.

To find Tangent and External for curve of
any other degree, divide by degree of curve and
add connection found in column of connections.
Degree of curve with a given T may be found
by dividing tangent (or external), opposite T by
given tangent (or external).
The distance from a point on the tangent to
the curve is very nearly the square of the tangent
length divided by twice the radius.

14600
-05
43800

3956
44
012

Change Profile. 7141390

24+00

33+83

14 15

71 2805

38 10

71 5815

48

71449

714375

70

714192

45+7220

7400

4980

44 2808

2280

4592

40503
397.85
7.18
18