

BK 31 - Dr 12A

OFFICE OF COUNTY ENGINEER
RAMSEY CO. MINN.

PLAN

Survey

PARK ST.

From Flower St. To Clark St.

Road Acc't. No.

'e Filed 4/40

File

Book 31 Dr 12A

Plan Survey

PARK ST.
from Co. Rd "B" (Flower)
to Clark Ave.

12/11/39

R.O.P.
A.M.
L.G.
C.F.

Alignment	1-2
Topog	3-5
Bench Levels	6-7
Cross Sections	8-12

Sta	Pt	Lt.	Angle Rt.
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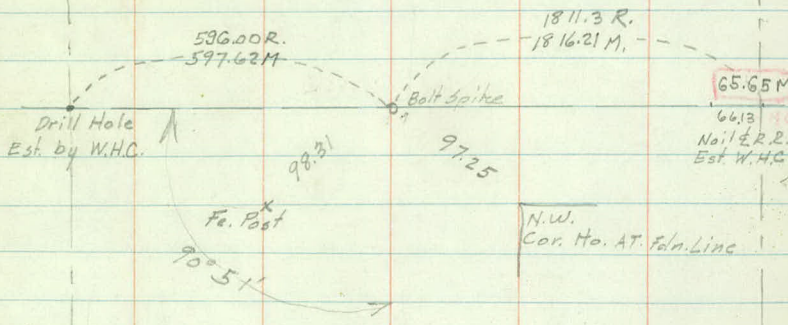
13+19.30	P.O.T.	±	Clark Ave
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10+00	P.O.T.		
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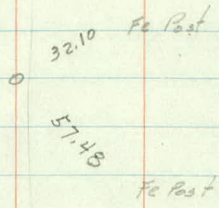
7+00	P.O.T.		
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0+00	P.O.T.	at	S. Line Sec. 7
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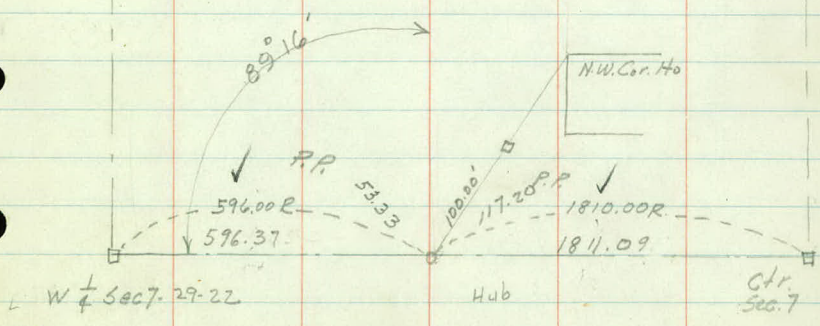
2413.83



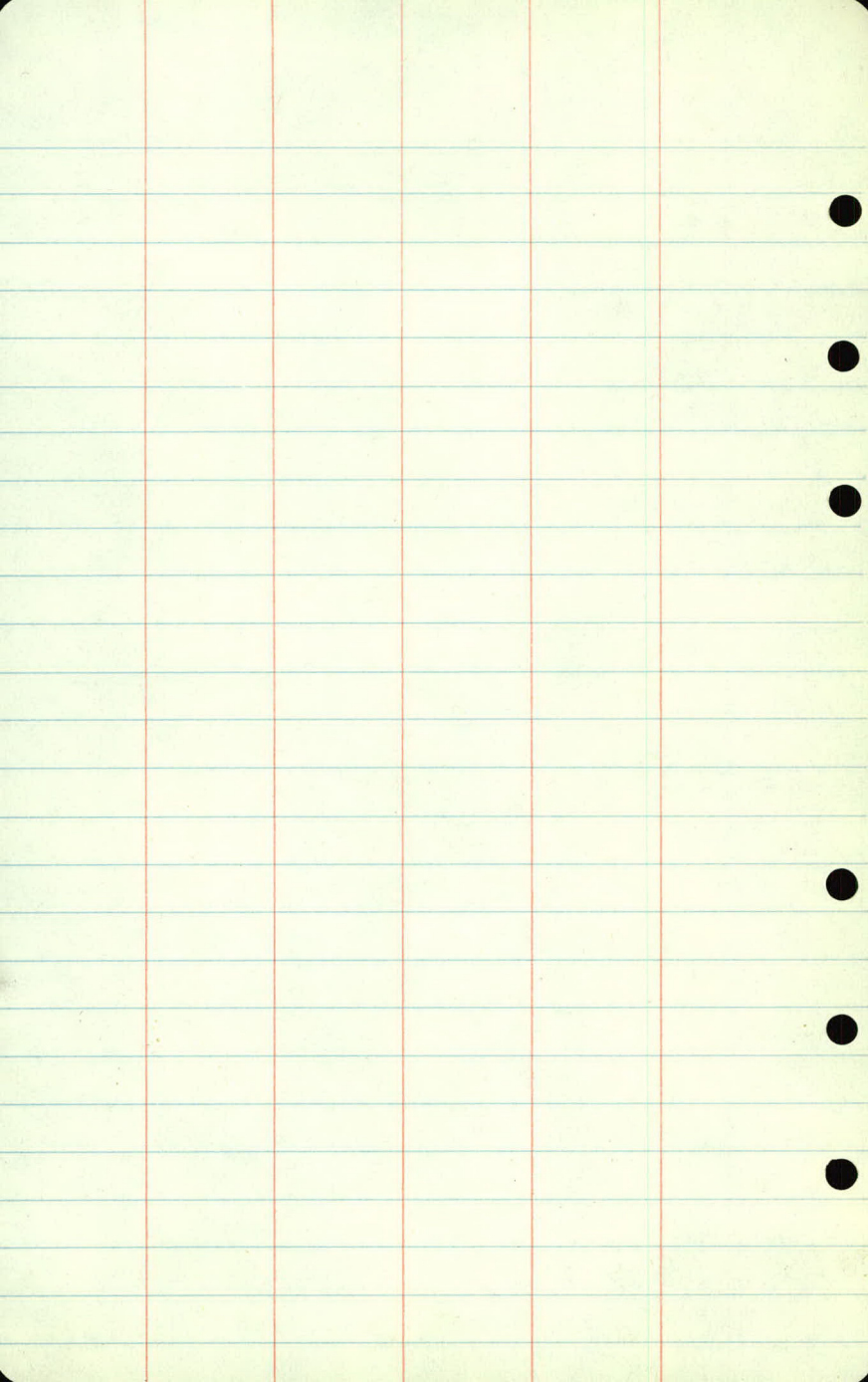
W Line Sec. (Rice St.)



N.E. 3. 1/4 Line



1407.46



Topography Park Ave

6

5

4

3

2

1

0

+ 25 shldr x 3 £

+ 05 shldr x 3 £

+60 Apparent Field Division

+62 Fe. Cor. - 95

Cultivated

Cultivated

+90 Begin Cult.

Uncultivated

+30 x Fe. - 30

Flower St.

20' Gravel

13

+ 34 shldr Xs $\frac{1}{2}$

+ 06 shldr Xs $\frac{1}{2}$

12

+ 40.5 Fe Xs $\frac{1}{2}$

+ 26- Edge Pot Hole Xs $\frac{1}{2}$

11

10

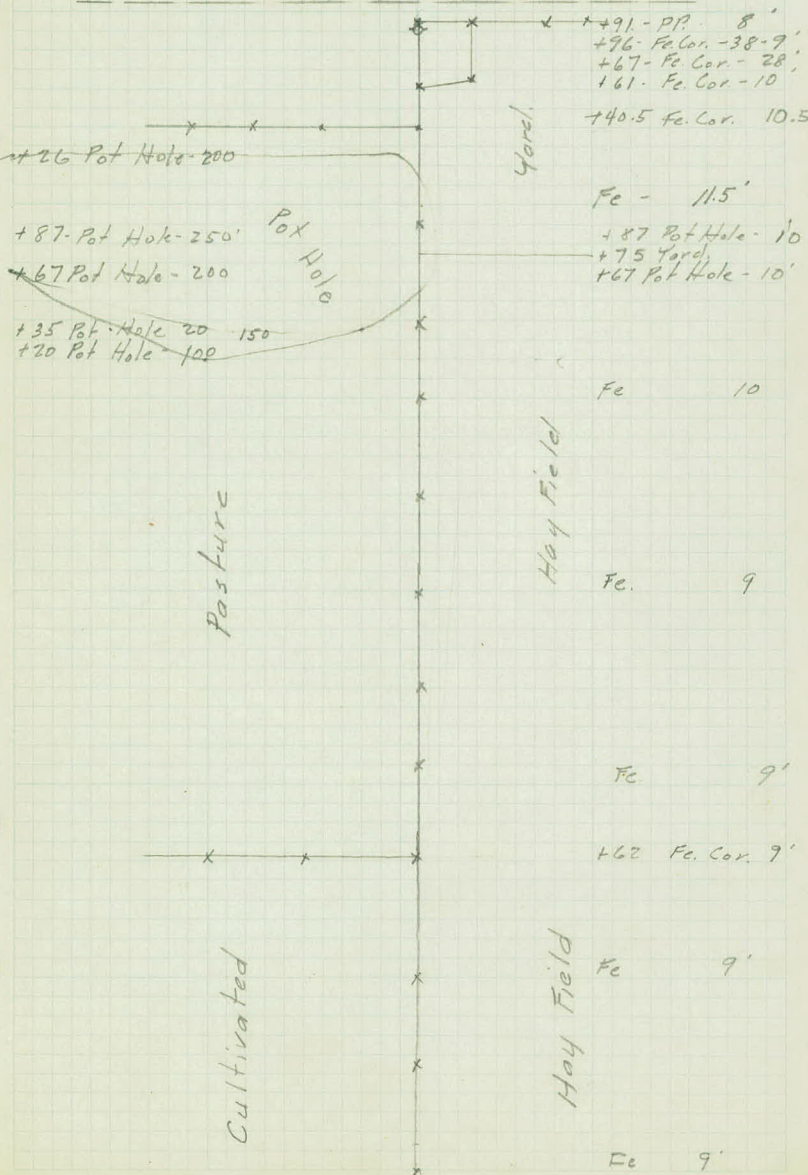
9

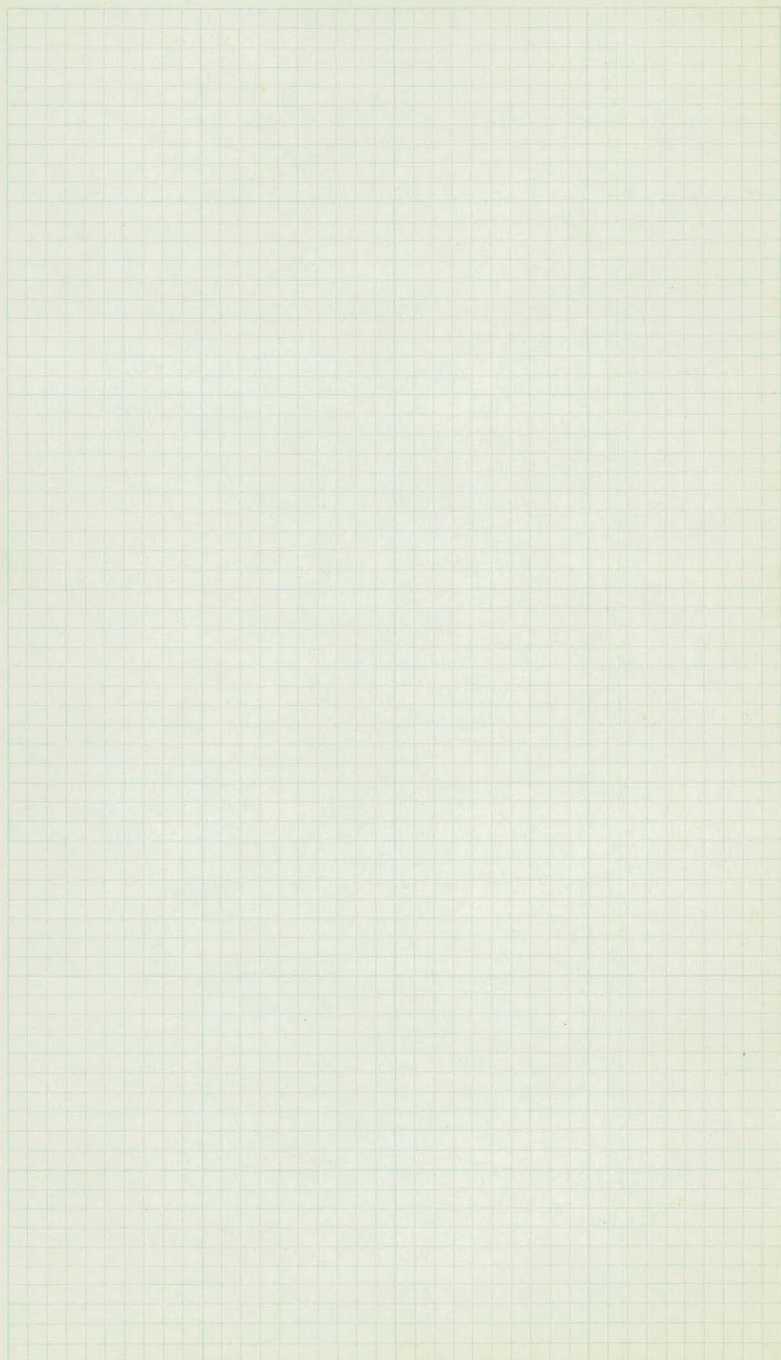
+ 62 Fe Xs $\frac{1}{2}$

8

7

CLARK ST 28' Gravel





Bench Levels
Park Ave.

Pl.	+	π	-	Elev
B.M.	0.81	956.09.		955.28
T.P.	2.34	946.79.	11.64	944.45.
B.M.			9.08	937.71.

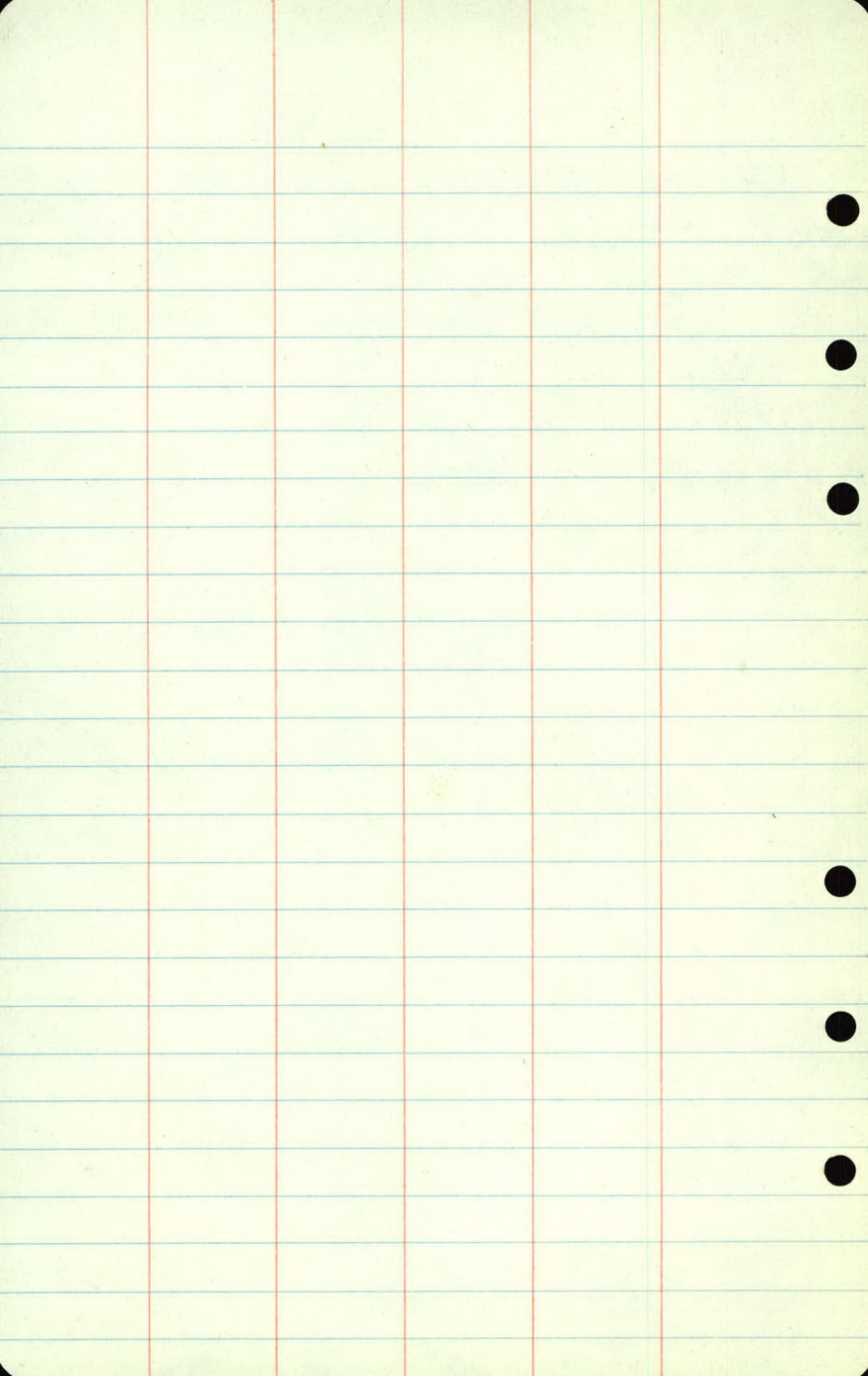
B.M.	7.72	963.00.		955.28.
T.P.	8.18	968.21.	2.97	960.03.
T.P.	7.60	974.60.	1.21	967.00.
B.M.			11.09	963.51.

Top Drill Hole at Int. of Rice & Clark.

Top 2" Pipe 75' Rt. 12+75

Top Drill Hole $\frac{1}{2}$ Int. of Rice & Clark

Spike in P.P. 150' Lt Sta 0+35



Cross Sections

Park Ave.
from Flower St. to Clark St.

Sta	+	π	-	Elev.
B.M.	2.43	965.94		963.51
0			1.3	64.6
+06	shldr		2.9	63.0
+22	shldr		3.0	62.9
+32			4.4	61.5
+50			5.4	60.5
1			7.6	58.3
+50			8.1	57.8
2			6.5	59.4
+50			4.5	61.4
3			3.2	62.7
+50			2.4	63.5
4			1.2	64.7
T.P.	11.02	976.43	0.53	965.41

Spike in P.P. 150 Lt. Sta 0+35

$\frac{2.5}{50}$	$\frac{2.1}{25}$	1.3	$\frac{0.2}{33}$	$\frac{0.0}{50}$
------------------	------------------	-----	------------------	------------------

$\frac{2.9}{50}$	2.9	$\frac{2.5}{50}$
------------------	-----	------------------

$\frac{3.1}{50}$	3.0	$\frac{2.5}{50}$
------------------	-----	------------------

$\frac{5.9}{50}$	$\frac{5.7}{34}$	$\frac{5.1}{16}$	4.4	$\frac{3.4}{19}$	$\frac{3.4}{38}$	$\frac{2.8}{50}$
------------------	------------------	------------------	-----	------------------	------------------	------------------

$\frac{6.9}{50}$	$\frac{6.4}{27}$	$\frac{5.5}{10}$	5.4	$\frac{4.4}{21}$	$\frac{4.4}{40}$	$\frac{3.2}{50}$
------------------	------------------	------------------	-----	------------------	------------------	------------------

$\frac{9.1}{50}$	$\frac{9.0}{29}$	$\frac{8.5}{9}$	7.6	$\frac{6.8}{20}$	$\frac{6.1}{35}$	$\frac{4.8}{50}$
------------------	------------------	-----------------	-----	------------------	------------------	------------------

$\frac{8.8}{50}$	$\frac{8.6}{21}$	8.1	$\frac{7.5}{5}$	$\frac{7.1}{30}$	$\frac{5.4}{50}$
------------------	------------------	-----	-----------------	------------------	------------------

$\frac{5.9}{50}$	$\frac{6.3}{27}$	6.5	$\frac{6.2}{28}$	$\frac{5.6}{50}$
------------------	------------------	-----	------------------	------------------

$\frac{4.1}{50}$	$\frac{4.3}{32}$	4.5	$\frac{5.3}{27}$	$\frac{4.9}{50}$
------------------	------------------	-----	------------------	------------------

$\frac{2.5}{50}$	$\frac{2.9}{27}$	3.2	$\frac{3.8}{28}$	$\frac{4.1}{50}$
------------------	------------------	-----	------------------	------------------

$\frac{1.9}{50}$	$\frac{2.2}{24}$	2.4	$\frac{3.1}{24}$	$\frac{3.7}{50}$
------------------	------------------	-----	------------------	------------------

$\frac{0.9}{50}$	$\frac{1.1}{26}$	1.2	$\frac{1.5}{27}$	$\frac{2.6}{50}$
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Sta.	+	$\bar{x}$	-	Elev.
		976.43		
4+50			9.5	66.9
5			7.2	69.2
+50			5.5	70.9
6			4.2	72.2
+50			2.8	73.6
7			3.5	72.9
+50			4.8	71.6
+75			4.9	71.5
8			6.9	69.5
+43			10.9	65.5
T.P.	1.73	967.36	10.80	965.63
+69				63.3
9				59.8

$$\begin{array}{r} 9.5 \\ 50 \end{array} \quad \begin{array}{r} 9.4 \\ 19 \end{array} \quad 9.5 \quad \begin{array}{r} 9.4 \\ 8 \end{array} \quad \begin{array}{r} 8.7 \\ 13 \end{array} \quad \begin{array}{r} 7.4 \\ 27 \end{array} \quad \begin{array}{r} 9.9 \\ 50 \end{array}$$

$$\begin{array}{r} 6.9 \\ 50 \end{array} \quad \begin{array}{r} 7.0 \\ 26 \end{array} \quad 7.2 \quad \begin{array}{r} 7.1 \\ 9 \end{array} \quad \begin{array}{r} 6.3 \\ 13 \end{array} \quad \begin{array}{r} 7.9 \\ 33 \end{array} \quad \begin{array}{r} 9.0 \\ 50 \end{array}$$

$$\begin{array}{r} 5.2 \\ 50 \end{array} \quad \begin{array}{r} 5.5 \\ 21 \end{array} \quad 5.5 \quad \begin{array}{r} 5.4 \\ 9 \end{array} \quad \begin{array}{r} 4.7 \\ 13 \end{array} \quad \begin{array}{r} 5.6 \\ 28 \end{array} \quad \begin{array}{r} 6.0 \\ 50 \end{array}$$

$$\begin{array}{r} 5.2 \\ 50 \end{array} \quad \begin{array}{r} 4.5 \\ 23 \end{array} \quad 4.2 \quad \begin{array}{r} 3.6 \\ 8 \end{array} \quad \begin{array}{r} 3.0 \\ 13 \end{array} \quad \begin{array}{r} 3.7 \\ 31 \end{array} \quad \begin{array}{r} 4.4 \\ 50 \end{array}$$

$$\begin{array}{r} 4.8 \\ 50 \end{array} \quad \begin{array}{r} 3.5 \\ 27 \end{array} \quad 2.8 \quad \begin{array}{r} 2.3 \\ 5 \end{array} \quad \begin{array}{r} 2.3 \\ 18 \end{array} \quad \begin{array}{r} 3.0 \\ 23 \end{array} \quad \begin{array}{r} 5.0 \\ 50 \end{array}$$

$$\begin{array}{r} 4.6 \\ 50 \end{array} \quad \begin{array}{r} 4.0 \\ 29 \end{array} \quad 3.5 \quad \begin{array}{r} 3.6 \\ 7 \end{array} \quad \begin{array}{r} 3.2 \\ 8 \end{array} \quad \begin{array}{r} 4.1 \\ 14 \end{array} \quad \begin{array}{r} 5.2 \\ 31 \end{array} \quad \begin{array}{r} 7.1 \\ 50 \end{array}$$

$$\begin{array}{r} 5.6 \\ 50 \end{array} \quad \begin{array}{r} 4.7 \\ 28 \end{array} \quad 4.8 \quad \begin{array}{r} 4.9 \\ 6 \end{array} \quad \begin{array}{r} 4.3 \\ 9 \end{array} \quad \begin{array}{r} 5.6 \\ 14 \end{array} \quad \begin{array}{r} 7.0 \\ 34 \end{array} \quad \begin{array}{r} 8.5 \\ 50 \end{array}$$

$$\begin{array}{r} 6.5 \\ 50 \end{array} \quad \begin{array}{r} 5.5 \\ 28 \end{array} \quad 4.9 \quad \begin{array}{r} 5.4 \\ 6 \end{array} \quad \begin{array}{r} 4.7 \\ 8 \end{array} \quad \begin{array}{r} 5.7 \\ 14 \end{array} \quad \begin{array}{r} 6.5 \\ 31 \end{array} \quad \begin{array}{r} 8.1 \\ 50 \end{array}$$

$$\begin{array}{r} 8.4 \\ 50 \end{array} \quad \begin{array}{r} 7.3 \\ 30 \end{array} \quad 6.9 \quad \begin{array}{r} 6.9 \\ 6 \end{array} \quad \begin{array}{r} 6.5 \\ 8 \end{array} \quad \begin{array}{r} 7.2 \\ 13 \end{array} \quad \begin{array}{r} 8.0 \\ 32 \end{array} \quad \begin{array}{r} 9.5 \\ 50 \end{array}$$

$$\begin{array}{r} 13.2 \\ 50 \end{array} \quad \begin{array}{r} 11.7 \\ 15 \end{array} \quad 10.9 \quad \begin{array}{r} 10.4 \\ 6 \end{array} \quad \begin{array}{r} 10.9 \\ 13 \end{array} \quad \begin{array}{r} 11.4 \\ 36 \end{array} \quad \begin{array}{r} 12.3 \\ 50 \end{array}$$

$$\begin{array}{r} 8.5 \\ 50 \end{array} \quad \begin{array}{r} 5.3 \\ 19 \end{array} \quad 4.1 \quad \begin{array}{r} 3.5 \\ 10 \end{array} \quad \begin{array}{r} 3.9 \\ 32 \end{array} \quad \begin{array}{r} 4.6 \\ 50 \end{array}$$

$$\begin{array}{r} 13.1 \\ 50 \end{array} \quad \begin{array}{r} 11.2 \\ 36 \end{array} \quad \begin{array}{r} 8.9 \\ 17 \end{array} \quad 7.6 \quad \begin{array}{r} 6.9 \\ 11 \end{array} \quad \begin{array}{r} 7.1 \\ 25 \end{array} \quad \begin{array}{r} 7.4 \\ 50 \end{array}$$

Sta.	+	π	-	Elev
		967.36		
9+25			9.3	58.1
+50			9.2	58.2
10+74			8.6	58.8
10			8.9	58.5
+25			11.3	56.1
T.P.	1.04	956.103	12.37	954.99
+60			6.7	49.3
11			15.3	40.7
T.P.	0.45	943.55	12.93	943.10
+26			6.6	37.0
+62			8.8	34.8
12			9.4	34.2
+50			7.8	35.8
+96			4.7	38.9

$$\begin{array}{r} 14.0 \\ 50 \end{array} \quad \begin{array}{r} 11.8 \\ 36 \end{array} \quad \begin{array}{r} 10.3 \\ 20 \end{array} \quad 9.3 \quad \begin{array}{r} 8.9 \\ 9 \end{array} \quad \begin{array}{r} 8.8 \\ 30 \end{array} \quad \begin{array}{r} 9.5 \\ 50 \end{array}$$

$$\begin{array}{r} 11.8 \\ 50 \end{array} \quad \begin{array}{r} 10.5 \\ 36 \end{array} \quad \begin{array}{r} 9.5 \\ 17 \end{array} \quad 9.2 \quad \begin{array}{r} 9.4 \\ 9 \end{array} \quad \begin{array}{r} 9.6 \\ 31 \end{array} \quad \begin{array}{r} 10.6 \\ 50 \end{array}$$

$$\begin{array}{r} 11.2 \\ 50 \end{array} \quad \begin{array}{r} 9.3 \\ 26 \end{array} \quad 8.6 \quad \begin{array}{r} 8.8 \\ 9 \end{array} \quad \begin{array}{r} 9.7 \\ 27 \end{array} \quad \begin{array}{r} 10.8 \\ 50 \end{array}$$

$$\begin{array}{r} 10.1 \\ 50 \end{array} \quad \begin{array}{r} 9.2 \\ 31 \end{array} \quad 8.9 \quad \begin{array}{r} 9.0 \\ 10 \end{array} \quad \begin{array}{r} 10.3 \\ 28 \end{array} \quad \begin{array}{r} 7.6 \\ 50 \end{array}$$

$$\begin{array}{r} 10.9 \\ 50 \end{array} \quad \begin{array}{r} 10.6 \\ 29 \end{array} \quad 11.3 \quad \begin{array}{r} 12.0 \\ 9 \end{array} \quad \begin{array}{r} 13.2 \\ 29 \end{array} \quad \begin{array}{r} 13.8 \\ 50 \end{array}$$

$$\begin{array}{r} 6.7 \\ 50 \end{array} \quad \begin{array}{r} 6.6 \\ 24 \end{array} \quad 6.7 \quad \begin{array}{r} 7.0 \\ 10 \end{array} \quad \begin{array}{r} 7.0 \\ 28 \end{array} \quad \begin{array}{r} 7.1 \\ 50 \end{array}$$

$$\begin{array}{r} 16.7 \\ 50 \end{array} \quad \begin{array}{r} 16.0 \\ 27 \end{array} \quad 15.3 \quad \begin{array}{r} 15.0 \\ 10 \end{array} \quad \begin{array}{r} 14.1 \\ 28 \end{array} \quad \begin{array}{r} 13.3 \\ 50 \end{array}$$

$$\begin{array}{r} 8.3 \\ 50 \end{array} \quad \begin{array}{r} 7.9 \\ 22 \end{array} \quad 6.6 \quad \begin{array}{r} 5.5 \\ 10 \end{array} \quad \begin{array}{r} 5.1 \\ 11 \end{array} \quad \begin{array}{r} 5.0 \\ 19 \end{array} \quad \begin{array}{r} 3.9 \\ 50 \end{array}$$

$$\begin{array}{r} 9.6 \\ 50 \end{array} \quad \begin{array}{r} 9.4 \\ 24 \end{array} \quad 8.8 \quad \begin{array}{r} 8.5 \\ 9 \end{array} \quad \begin{array}{r} 7.9 \\ 11 \end{array} \quad \begin{array}{r} 7.6 \\ 32 \end{array} \quad \begin{array}{r} 6.0 \\ 50 \end{array}$$

2 B. hole

$$\begin{array}{r} 10.4 \\ 50 \end{array} \quad \begin{array}{r} 10.2 \\ 26 \end{array} \quad 9.4 \quad \begin{array}{r} 9.0 \\ 10 \end{array} \quad \begin{array}{r} 8.6 \\ 12 \end{array} \quad \begin{array}{r} 8.4 \\ 23 \end{array} \quad \begin{array}{r} 6.8 \\ 34 \end{array} \quad \begin{array}{r} 6.2 \\ 50 \end{array}$$

$$\begin{array}{r} 7.6 \\ 50 \end{array} \quad \begin{array}{r} 7.5 \\ 25 \end{array} \quad 7.8 \quad \begin{array}{r} 8.1 \\ 10 \end{array} \quad \begin{array}{r} 8.5 \\ 17 \end{array} \quad \begin{array}{r} 8.2 \\ 28 \end{array} \quad \begin{array}{r} 6.9 \\ 37 \end{array} \quad \begin{array}{r} 6.3 \\ 50 \end{array}$$

$$\begin{array}{r} 1.1 \\ 50 \end{array} \quad \begin{array}{r} 2.9 \\ 22 \end{array} \quad 4.7 \quad \begin{array}{r} 5.4 \\ 9 \end{array} \quad \begin{array}{r} 7.7 \\ 34 \end{array} \quad \begin{array}{r} 8.6 \\ 50 \end{array}$$

Sta.	+	π	-	Elev.
		943.55		
12+98			4.7	38.9
13+02			4.6	39.0
+06			3.2	40.4
+19.3			2.6	41.0
B.M.			5.83	937.72

937.71

$$\begin{array}{r} 2.9 \\ 50 \end{array} \quad \begin{array}{r} 3.8 \\ 19 \end{array} \quad 4.7 \quad \begin{array}{r} 5.4 \\ 9 \end{array} \quad \begin{array}{r} 7.7 \\ 34 \end{array} \quad \begin{array}{r} 8.6 \\ 50 \end{array}$$

$$\begin{array}{r} 3.0 \\ 50 \end{array} \quad \begin{array}{r} 3.5 \\ 28 \end{array} \quad 4.6 \quad \begin{array}{r} 5.8 \\ 19 \end{array} \quad \begin{array}{r} 7.5 \\ 50 \end{array}$$

$$\begin{array}{r} 1.3 \\ 50 \end{array} \quad \begin{array}{r} 2.0 \\ 29 \end{array} \quad 3.2 \quad \begin{array}{r} 4.3 \\ 28 \end{array} \quad \begin{array}{r} 5.1 \\ 50 \end{array}$$

$$\begin{array}{r} 0.7 \\ 50 \end{array} \quad 2.6 \quad \begin{array}{r} 4.5 \\ 50 \end{array}$$

Top 2" Pipe 75' Rl 12+75

