

Book #19, Dr. 11

OFFICE OF COUNTY ENGINEER
RAMSEY CO. MINN.

PLAN Survey

WESTERN AVE.

From Co. Rd. "B" To Co. Rd. "C"

Road Acc't. No.

Date Filed 1935

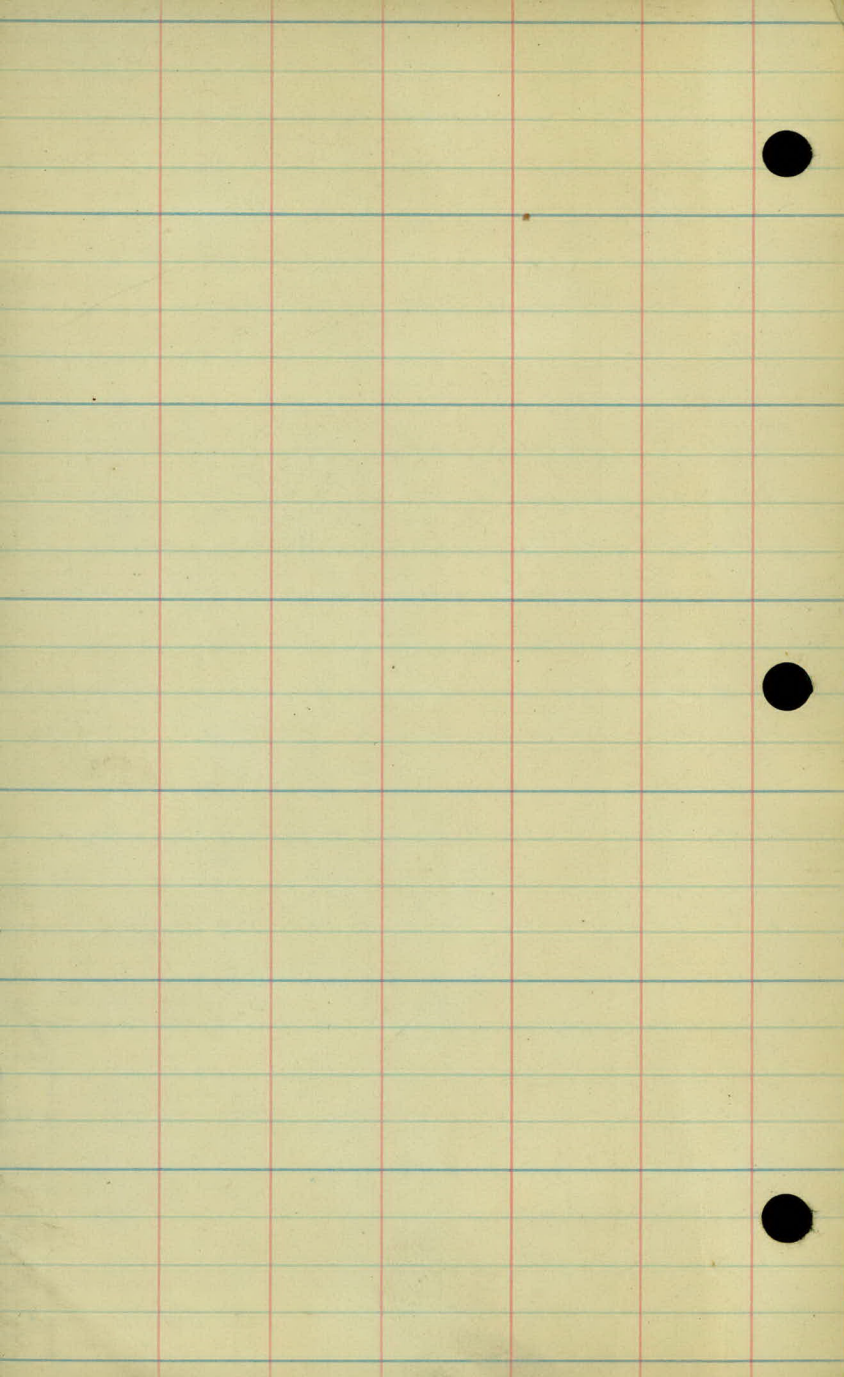
File 11

Plan Survey
Western Ave - Co. Rd. B - Co. Rd. C

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Alignment	P. 1-3
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Plan Complete
Aug 5/35



1
Alignment.

26+44.80

P.O.T.

17+55.65

P.O.T.

13+55.55

13+25.35

P.O.T.

4+28.65

P.O.T.

0+00

Con. FP

W.H.C.

A.D.C.

D.S.

May 20, 35

J.B.

L. P.G.

Mon.

Down A

56.76

12" Oak

1754.7

Trap Pipe

29.90

Hub.

Ardent

Iron Mon. 25 yrs. old

36" C.H. Sp. R

0.65

120.2

Approx 2 Minn. Ave

88.43

Spike

66.45

12" Oak

Hub.

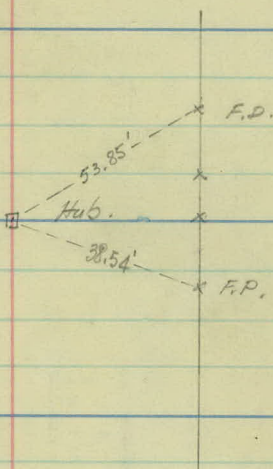
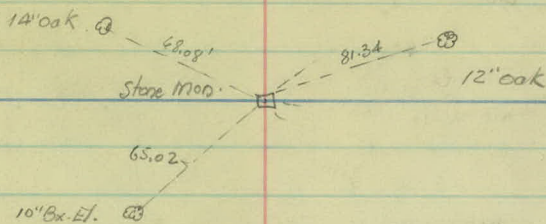
4 Grosley Rd.

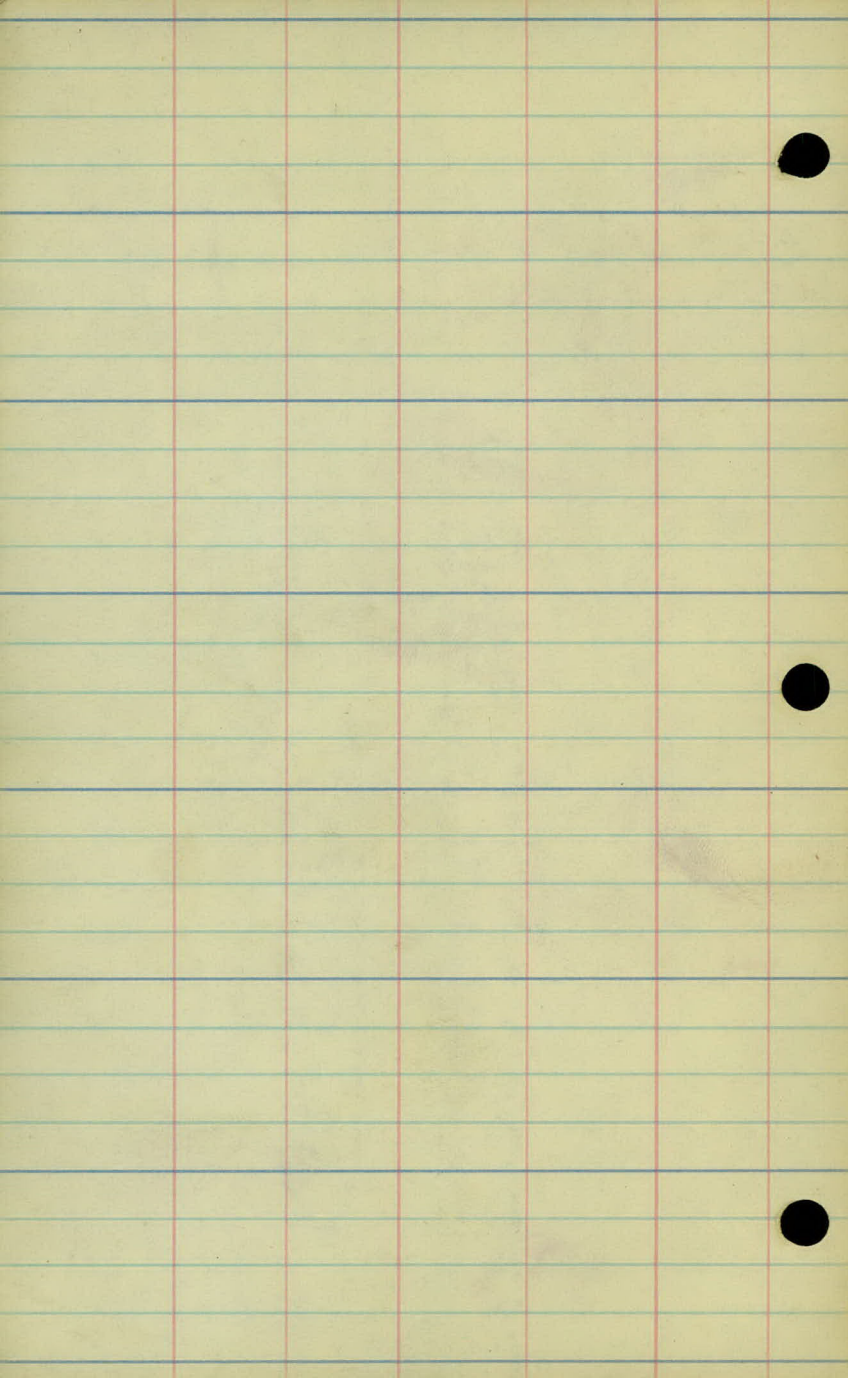
stone Mon.

52 + 95.37 Mod.

44 + 67.45 P.O.T

37 + 44.45 P.O.T.





Topography.

5

4

3

2

1

oto E. Co. Rd. B. + T. H. #36

=170

Rd-2

R-13'

5

+16-R.P. 8'

Rd-3'

Rd-11'

Rd-2'

Rd-12'

+38-R.P. 8'

Rd. 0-14

+95-R.P.-8'

Rd- 0-14

+12- Edge Block Top.

+35-Rd 2-16

+28-R.P. 45'

+28-Rd 5; 7 28'

Stone Mon.

-0+10-Edge Block Top.

-0+22- ditch

-0+35-10" oak 18'

Rd.
9-18'

-0+35-10" oak-18'

11

10

9

8

7

6

5

+34-P.D.
9'

+55-P.D.
9'

+77-P.D.
9'

+62-FLINE 33'
Iron. Men. 33'

Rd-1
+98-P.D. 7'

cultivated

cultivated.

Rd-0

Rd
8-26'

+92-6' Oak 37'

+29-4' Oak 37'

+90-8' Oak 36'

+61-15' Oak 35'

Rd.
4-26

+49-12' Sp. 36'
+89-8' Oak 38'
+75-10' Oak 38'
+65-10' Oak 37'
+55-16' Oak 39'
+42-10' Sp. 36'
+28-6' Sp. 37'

Rd
5-20

+88-6' Oak 34'
+82-12' B-Oak 39'
+60-10' Oak 34'
+49-12' Oak 38'
+40-3-8' Oak 35'
+34-10' W. Oak 32'
+26-Ent. RT
+19-16' B-Oak 37'
+20-10' Oak 32'
+00-B/Oak Dec 32'

Rd. Rd-19

R-14'

+04-4-6' Trees
20'

cultivated.

Rd-13

18

17

16

15

14

(+50 - Begin of New Grade)

+5 Minn Ave - Gravelled (some Oil)

13

12

Rd-13

Rd-13

7

Rd-13

Rd-13

Rd-13

Rd-13

+91-G.R. 5'

+46-Rd-Sq 73'

+05-12" Stp. 15'

+09-10' Oak-17'

+07-P.D.

9'

+35

76'

+35

76'

+14

14'

+14

50'

+50

+50

10-27

+07-P.R. 46'

+97-12" Oak-41'

+82-2" Trail 43'

+70-12" Oak 39'

+62-6" Oak-39'

+52-14" Oak-38'

+76-6" Oak-35'

d Rd-Trail

105'

cultivated

cultivated

cut

Timber

60'

25

24

23

22

21

20

19

cultivated -

6 large boulders
in slope

F-48'

Scattered
Trees

F-49

+77 - F. Line
22'

Dot

Hole

(No outlet)

Rd-13

Rd-13
F-48'

+46 - F. Cor. 30
+45 - 6" Box E. 30

+73 6' Apple 29

+64 - 6" Plum 29
+60 - F. Cor. 31
+77 - F. Cor. 27

chicken

Garden

Pasture

F-46'

+90 - F. Cor. 23

+69 - Ent. H.
+50

cult.

+82 - F. Cor. 43'

cult.

32

31

30

29

28

27

+44.80 £ B-2

Mon.

26

+60 - { 4 - Large
Boulders

Hog Yard.

000

F-33' 42'

Alfalfa

+43- F. Cor. 33'

F-33

Cattle Lane

+71- F. Cor. 42'
+60- Ent - F. 33

+48- 8" - 5' R.G.
+31- 12" - 5' R.G.
+29- 10" - 5' R.G.
+18- 10" - 5' R.G.
+01- 10" - 5' R.G.

Hog Yard.

+70- End of Grade

+13- F. Cor. 33'

Pasture -

F-33'

Timber

+04- Beg. New Grade

+84- 10" Stump 33'
+60- Shldr.

+74- F. Cor. 33'

+31- Shldr. End of New Grade

+11- 12" Oak F. Cor.
45'

Mon. has been hit
& moved -
(reestablish after grading)

39

Δ

38

37

36

Begin New Grade
Part

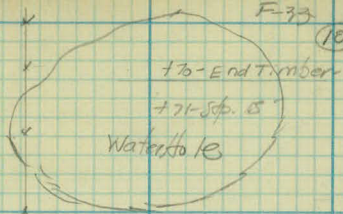
35

34

33

+69-F. Line 55'
+67 Sp. 9'

Stone Mon.
39 + 69.15



Scattered
Tree Stems.
Pasture F-33

Pasture

New Grade.

Scattered
Trees.

+69-Δ F. 33

A-F-10

About 500' →

P.O.I.V.E

+63-E. For 33

+78-14' Sp. 2'
+75-15' Sp. 2'
+65-12' Sp. 2'

+70-Δ 10 F. 17

+68 Δ in 33/
F-42

+62 inf of #2

Pasture

+65-F. Cor. 33

147

146

145

144

143

142

141

F-33

2 large Boulders

+53-12' sfp 7'

F-33'

Pasture

Pasture

52

53

+95.37 - Mon = $\pm$ Co. Road "G"

54

55

56

57

58

Western Ave.

+07- Edge Black Top

+85- Edge Black Top

+70- End Curb 2.4' } 15" x 16' C.M.

+63- End Curb 10' }

+39- 10" Bx El. 32

+25- 10" Bx El. 31

+10- 10" Bx El. 31

+82- 15" x 20' C.M.

11'

+71- F. Line 34

+76- T.R. 36

+79- 80' H. 1109

29'

+25 Bx El. 30

+25 E Cor from H.O.

7.1



+06- N.E. Cor from 1 Gar



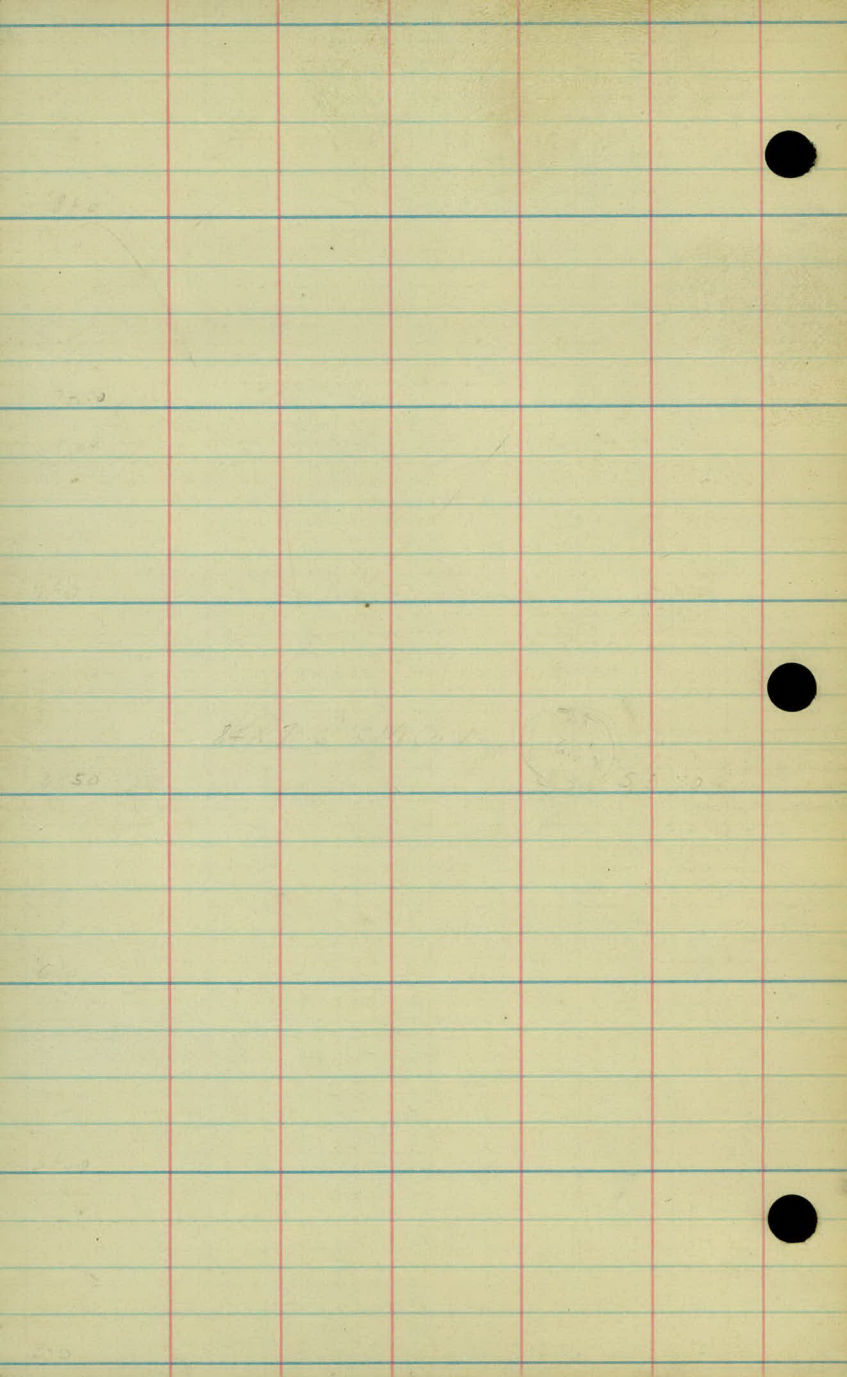
Pasture

Water Hole

+57- F. Line

+50- E. Line

+08- E. Cor.



Elevations & Cross Sections

Drainage Recommendations.

Sta.	+	π	-	Elev.
B.M.	4.38	993.31		988.93
T.P.	6.45	999.16	0.60	992.71
T.P.	1.03	989.68	10.51	989.65
B.M.	8.40	989.68	8.40	981.28
T.P.	0.54	976.70	13.52	976.16
T.P.	2.61	965.90	13.41	963.29
T.P.	0.49	957.46	8.93	956.97
B.M.	7.40	951.80	13.06	944.40

oto Mon. 2 Co. Rd. "B" 9.02 942.78 ✓

ot 17 43.30

ot 24 43.4

ot 45 44.8

1 to 47.6 ✓

T.P. 11.15 962.41 0.54 951.26 ✓

+50 48.6

2 to 50.5'

+50 53.0

Lt.

2

Rt.

W.H.C.

A.D.C.

May

D.S.

1935

J.B.

L.D.G.

Spike in 8" Oak 52' Rt. Sta. 23+34

Spike in Top 30" Cott. Stp. 75' Lt. Sta. 13+35

Top Stake Sta. 3

R.R. Spike in R.P. #320 - 44' Rt. Sta. 0+28

$\frac{15.0}{200}$	$\frac{11.5}{100}$	$\frac{10.3}{50}$	$\frac{9.00}{0}$	$\frac{9.5}{50}$	$\frac{10.2}{100}$	$\frac{12.5}{200}$
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$\frac{10.4}{50}$	$\frac{9.8}{25}$	$\frac{8.5}{11}$	$\frac{8.4}{11}$	$\frac{8.9}{27}$	$\frac{8.5}{34}$	$\frac{9.1}{50}$
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$\frac{10.7}{50}$	$\frac{9.2}{10}$	$\frac{8.4}{11}$	$\frac{8.0}{11}$	$\frac{8.5}{24}$	$\frac{9.7}{50}$
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$\frac{3.6}{50}$	$\frac{0.7}{12}$	$\frac{4.9}{6}$	$\frac{7.0}{11}$	$\frac{6.7}{11}$	$\frac{7.3}{17}$	$\frac{6.2}{22}$	$\frac{4.8}{33}$	$\frac{4.1}{50}$
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$\frac{2.0}{33}$	$\frac{1.1}{14}$	$\frac{4.0}{5}$	$\frac{4.2}{8}$	$\frac{4.6}{18}$	$\frac{2.2}{33}$
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$\frac{12.3}{33}$	$\frac{12.6}{14}$	$\frac{13.8}{9}$	$\frac{13.6}{9}$	$\frac{13.7}{17}$	$\frac{12.4}{33}$
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$\frac{9.8}{33}$	$\frac{10.5}{11}$	$\frac{11.5}{7}$	$\frac{11.9}{11}$	$\frac{12.0}{16}$	$\frac{11.3}{25}$	$\frac{10.1}{33}$
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$\frac{7.1}{33}$	$\frac{8.0}{13}$	$\frac{9.1}{8}$	$\frac{9.4}{11}$	$\frac{9.6}{14}$	$\frac{7.7}{33}$
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Sand Soil

Sta	+	π	-	Elev.
-		962.41 ✓		
3+0				56.3
T.P.	9.15	970.58 ✓	0.98	961.43 ✓
+50				60.1
				61.1
4+0				63.1
				62.1
+50				63.8
5+0	(? T.H. Location)			63.7
+50				62.7
6+0				60.8
+50				58.8
7+0				56.9
T.P.	6.02	963.55 ✓	13.05	957.53 ✓
+50				55.5
7+80	P. Culvert Drains Rt.			54.6
8+0				55.3

Lt. E Rt.

$$\begin{array}{r} 4.0 \\ 33 \end{array} \quad \begin{array}{r} 4.7 \\ 11 \end{array} \quad \begin{array}{r} 6.1 \\ - \end{array} \quad \begin{array}{r} 6.1 \\ 14 \end{array} \quad \begin{array}{r} 2.7 \\ 33 \end{array}$$

$$\begin{array}{r} 7.8 \\ 33 \end{array} \quad \begin{array}{r} 9.0 \\ 13 \end{array} \quad \begin{array}{r} 10.0 \\ 6 \end{array} \quad \begin{array}{r} 10.6 \\ 3 \end{array} \quad \begin{array}{r} 10.5 \\ - \end{array} \quad \begin{array}{r} 10.1 \\ 6 \end{array} \quad \begin{array}{r} 10.5 \\ 13 \end{array} \quad \begin{array}{r} 4.7 \\ 33 \end{array}$$

$$\begin{array}{r} 6.9 \\ 33 \end{array} \quad \begin{array}{r} 7.5 \\ 8 \end{array} \quad \begin{array}{r} 8.0 \\ 5 \end{array} \quad \begin{array}{r} 7.5 \\ 3 \end{array} \quad \begin{array}{r} 7.5 \\ - \end{array} \quad \begin{array}{r} 7.4 \\ 12 \end{array} \quad \begin{array}{r} 6.1 \\ 17 \end{array} \quad \begin{array}{r} 2.4 \\ 33 \end{array}$$

$$\begin{array}{r} 10.6 \\ 33 \end{array} \quad \begin{array}{r} 8.9 \\ 16 \end{array} \quad \begin{array}{r} 6.9 \\ 5 \end{array} \quad \begin{array}{r} 6.8 \\ - \end{array} \quad \begin{array}{r} 6.4 \\ 13 \end{array} \quad \begin{array}{r} 5.9 \\ 19 \end{array} \quad \begin{array}{r} 5.5 \\ 33 \end{array}$$

$$\begin{array}{r} 9.5 \\ 33 \end{array} \quad \begin{array}{r} 6.7 \\ 6 \end{array} \quad \begin{array}{r} 6.9 \\ - \end{array} \quad \begin{array}{r} 6.7 \\ 14 \end{array} \quad \begin{array}{r} 6.0 \\ 16 \end{array} \quad \begin{array}{r} 6.2 \\ 33 \end{array}$$

$$\begin{array}{r} 8.8 \\ 33 \end{array} \quad \begin{array}{r} 6.6 \\ 14 \end{array} \quad \begin{array}{r} 6.5 \\ 8 \end{array} \quad \begin{array}{r} 7.9 \\ 2 \end{array} \quad \begin{array}{r} 7.9 \\ - \end{array} \quad \begin{array}{r} 8.0 \\ 14 \end{array} \quad \begin{array}{r} 6.5 \\ 18 \end{array} \quad \begin{array}{r} 6.4 \\ 33 \end{array}$$

$$\begin{array}{r} 6.7 \\ 33 \end{array} \quad \begin{array}{r} 6.0 \\ 21 \end{array} \quad \begin{array}{r} 6.7 \\ 11 \end{array} \quad \begin{array}{r} 9.3 \\ 5 \end{array} \quad \begin{array}{r} 9.8 \\ - \end{array} \quad \begin{array}{r} 9.7 \\ 15 \end{array} \quad \begin{array}{r} 8.1 \\ 20 \end{array} \quad \begin{array}{r} 6.6 \\ 33 \end{array}$$

$$\begin{array}{r} 8.8 \\ 33 \end{array} \quad \begin{array}{r} 9.3 \\ 11 \end{array} \quad \begin{array}{r} 11.8 \\ - \end{array} \quad \begin{array}{r} 11.8 \\ 15 \end{array} \quad \begin{array}{r} 11.1 \\ 23 \end{array} \quad \begin{array}{r} 11.4 \\ 33 \end{array}$$

$$\begin{array}{r} 13.6 \\ 0 \end{array} \quad \begin{array}{r} 14.0 \\ 8 \end{array} \quad \begin{array}{r} 13.7 \\ - \end{array} \quad \begin{array}{r} 13.6 \\ 19 \end{array} \quad \begin{array}{r} 17.1 \\ 24 \end{array} \quad \begin{array}{r} 17.2 \\ 33 \end{array}$$

$$\begin{array}{r} 7.6 \\ 33 \end{array} \quad \begin{array}{r} 8.6 \\ 17 \end{array} \quad \begin{array}{r} 8.8 \\ 2 \end{array} \quad \begin{array}{r} 8.0 \\ - \end{array} \quad \begin{array}{r} 7.7 \\ 18 \end{array} \quad \begin{array}{r} 11.2 \\ 26 \end{array} \quad \begin{array}{r} 11.3 \\ 33 \end{array}$$

$$\begin{array}{r} 8.2 \\ 33 \end{array} \quad \begin{array}{r} 9.3 \\ 18 \end{array} \quad \begin{array}{r} 8.9 \\ 3 \end{array} \quad \begin{array}{r} 8.9 \\ - \end{array} \quad \begin{array}{r} 8.0 \\ 3 \end{array} \quad \begin{array}{r} 7.8 \\ 19 \end{array} \quad \begin{array}{r} 11.9 \\ 28 \end{array} \quad \begin{array}{r} 11.9 \\ 33 \end{array}$$

$$\begin{array}{r} 9.1 \\ 33 \end{array} \quad \begin{array}{r} 9.7 \\ 14 \end{array} \quad \begin{array}{r} 8.9 \\ 4 \end{array} \quad \begin{array}{r} 8.2 \\ - \end{array} \quad \begin{array}{r} 7.7 \\ 2 \end{array} \quad \begin{array}{r} 7.6 \\ 19 \end{array} \quad \begin{array}{r} 10.1 \\ 29 \end{array} \quad \begin{array}{r} 10.5 \\ 33 \end{array}$$

1105/10050

+76-Ent-Rt. Rculv.

Sta.	+	π	-	E/v.
		963.55		
8+50				57.6
9+6				60.8
T.P.	11.83	974.92	0.46	963.09
+50				63.3
10+0				66.7
+50				71.1
T.P.	11.39	985.42	0.89	974.03
11+0				75.2
+40				78.0
12+0				77.7
+35	No Culv. Road			75.9
+70				79.3
13				83.8
B.M.			4/2	981.30

Lt.

L

Rt.

$$\frac{6.1}{33}$$

$$\frac{5.5}{6}$$

$$\frac{5.9}{4}$$

$$\frac{5.6}{4}$$

$$\frac{5.6}{24}$$

$$\frac{6.9}{28}$$

$$\frac{5.3}{33}$$

$$\frac{1.4}{38}$$

$$\frac{1.9}{5}$$

$$\frac{2.7}{4}$$

$$\frac{2.7}{6}$$

$$\frac{2.4}{22}$$

$$\frac{2.0}{27}$$

$$\frac{3.0}{30}$$

$$\frac{2.0}{33}$$

$$\frac{12.3}{33}$$

$$\frac{11.6}{11}$$

$$\frac{12.0}{7}$$

$$\frac{11.6}{4}$$

$$\frac{11.0}{3}$$

$$\frac{10.8}{29}$$

$$\frac{11.0}{33}$$

$$\frac{8.7}{33}$$

$$\frac{8.1}{17}$$

$$\frac{7.7}{4}$$

$$\frac{8.2}{3}$$

$$\frac{7.8}{3}$$

$$\frac{7.3}{15}$$

$$\frac{7.3}{31}$$

$$\frac{6.3}{33}$$

$$\frac{4.0}{33}$$

$$\frac{3.3}{15}$$

$$\frac{3.2}{4}$$

$$\frac{3.8}{4}$$

$$\frac{4.3}{6}$$

$$\frac{3.5}{16}$$

$$\frac{3.5}{31}$$

$$\frac{1.9}{34}$$

$$\frac{9.9}{33}$$

$$\frac{9.3}{12}$$

$$\frac{10.2}{4}$$

$$\frac{11.6}{6}$$

$$\frac{10.8}{18}$$

$$\frac{11.0}{31}$$

$$\frac{9.6}{33}$$

$$\frac{7.1}{33}$$

$$\frac{6.5}{10}$$

$$\frac{7.4}{4}$$

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

$$\frac{8.5}{18}$$

$$\frac{8.8}{30}$$

$$\frac{7.5}{33}$$

$$\frac{6.5}{34}$$

$$\frac{9.1}{33}$$

$$\frac{8.7}{16}$$

$$\frac{7.7}{4}$$

$$\frac{7.4}{5}$$

$$\frac{6.6}{8}$$

$$\frac{6.0}{19}$$

$$\frac{6.1}{30}$$

$$\frac{7.1}{33}$$

$$\frac{11.0}{33}$$

$$\frac{10.6}{19}$$

$$\frac{9.5}{4}$$

$$\frac{8.9}{4}$$

$$\frac{5.4}{9}$$

$$\frac{4.7}{18}$$

$$\frac{5.0}{29}$$

$$\frac{7.1}{33}$$

$$\frac{8.0}{40}$$

$$\frac{8.6}{33}$$

$$\frac{7.4}{15}$$

$$\frac{6.1}{4}$$

$$\frac{5.2}{4}$$

$$\frac{3.4}{8}$$

$$\frac{2.9}{19}$$

$$\frac{3.0}{28}$$

$$\frac{3.0}{33}$$

$$\frac{4.6}{33}$$

$$\frac{2.4}{8}$$

$$\frac{1.6}{4}$$

$$\frac{0.8}{17}$$

$$\frac{5.9}{33}$$

Spike Top 30" Co H. 75' Lt. Sta. 13135

Sta.	+	π	-	Elev.
B.M.	12.81	994.11		981.30
13+15				85.0
13+25	2 Minn.			85.7
+35				85.5
+42				86.1
+50				86.6
+65				86.6
14				87.7
+50				89.4
15				91.0
T.P.	10.74	1002.61	2.24	991.87
+35				91.8
+70				92.6
16				93.4
+40				95.0

Sandy Gravel

LT.

4

RT.

Spike Top 30" c o t t s t a p . 75' Lt. Sta. 13+35

$\frac{10.8}{50}$	$\frac{9.8}{73}$	$\frac{9.1}{71}$	$\frac{7.9}{78}$	$\frac{7.6}{50}$	Shldr
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$\frac{12.7}{100}$	$\frac{10.4}{50}$	$\frac{9.3}{72}$	$\frac{8.4}{0}$	$\frac{7.3}{27}$	$\frac{6.7}{50}$	2 min. Ar.
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$\frac{11.1}{50}$	$\frac{9.6}{73}$	$\frac{8.6}{86}$	$\frac{7.8}{73}$	$\frac{7.3}{42}$	$\frac{7.0}{50}$	Shldr.
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(R Culv. Drain Lt.)

$\frac{11.8}{50}$	$\frac{9.6}{25}$	$\frac{8.8}{15}$	$\frac{8.0}{-}$	$\frac{7.8}{25}$	$\frac{7.4}{40}$	$\frac{7.0}{50}$
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$\frac{7.0}{50}$	$\frac{7.5}{24}$	$\frac{8.5}{17}$	$\frac{7.5}{-}$	$\frac{8.1}{14}$	$\frac{8.8}{22}$	$\frac{5.6}{30}$	$\frac{5.6}{50}$
------------------	------------------	------------------	-----------------	------------------	------------------	------------------	------------------

$\frac{9.2}{33}$	$\frac{8.7}{28}$	$\frac{7.2}{20}$	$\frac{8.3}{19}$	$\frac{8.3}{17}$	$\frac{7.4}{15}$	$\frac{7.5}{-}$	$\frac{7.9}{15}$	$\frac{9.0}{18}$	$\frac{8.7}{21}$	$\frac{8.5}{29}$	$\frac{12.0}{34}$
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$\frac{9.5}{33}$	$\frac{8.6}{28}$	$\frac{7.3}{25}$	$\frac{6.5}{20}$	$\frac{6.4}{-}$	$\frac{6.6}{14}$	$\frac{7.9}{18}$	$\frac{7.7}{22}$	$\frac{10.5}{31}$	$\frac{10.6}{33}$
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$\frac{10.3}{33}$	$\frac{10.0}{29}$	$\frac{6.8}{21}$	$\frac{6.8}{18}$	$\frac{5.2}{14}$	$\frac{4.9}{-}$	$\frac{4.4}{19}$	$\frac{4.5}{24}$	$\frac{1.8}{28}$	$\frac{1.7}{33}$
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$\frac{6.0}{30}$	$\frac{4.4}{23}$	$\frac{5.4}{21}$	$\frac{5.2}{16}$	$\frac{3.3}{12}$	$\frac{3.1}{-}$	$\frac{3.0}{15}$	$\frac{3.3}{24}$	$\frac{0.5}{28}$	$\frac{0.3}{33}$
------------------	------------------	------------------	------------------	------------------	-----------------	------------------	------------------	------------------	------------------

$\frac{12.5}{33}$	$\frac{12.0}{28}$	$\frac{10.7}{23}$	$\frac{12.9}{20}$	$\frac{12.8}{17}$	$\frac{11.0}{13}$	$\frac{10.8}{-}$	$\frac{10.7}{13}$	$\frac{11.6}{22}$	$\frac{7.3}{29}$	$\frac{8.9}{33}$
-------------------	-------------------	-------------------	-------------------	-------------------	-------------------	------------------	-------------------	-------------------	------------------	------------------

$\frac{12.6}{33}$	$\frac{12.6}{30}$	$\frac{11.4}{25}$	$\frac{11.2}{22}$	$\frac{12.0}{21}$	$\frac{11.9}{18}$	$\frac{10.3}{13}$	$\frac{10.0}{-}$	$\frac{10.1}{14}$	$\frac{11.0}{24}$	$\frac{10.0}{28}$	$\frac{9.6}{33}$
-------------------	-------------------	-------------------	-------------------	-------------------	-------------------	-------------------	------------------	-------------------	-------------------	-------------------	------------------

$\frac{14.6}{33}$	$\frac{14.4}{23}$	$\frac{9.4}{12}$	$\frac{9.2}{-}$	$\frac{9.2}{-}$	$\frac{9.2}{13}$	$\frac{10.9}{19}$	$\frac{11.4}{33}$
-------------------	-------------------	------------------	-----------------	-----------------	------------------	-------------------	-------------------

$\frac{14.4}{33}$	$\frac{14.2}{25}$	$\frac{8.2}{13}$	$\frac{7.6}{-}$	$\frac{7.7}{33}$	$\frac{11.4}{22}$	$\frac{11.5}{33}$	Low Spot
-------------------	-------------------	------------------	-----------------	------------------	-------------------	-------------------	----------

(Daylight from side - 15-16 L of ft)

Culv. or Ditch Gr. back

Sta.

+

 π

-

Elev.

1002.61

17

96.7

+50

97.6

18

98.0

+50

98.6

19

97.5

+40

96.6

+75

94.7

20

93.5

T.R.

1.17

994.20 ✓

9.58

993.03 ✓

+50

92.1

21

90.5

+50

89.2

22

88.2 ✓

Lt.

E

Rt.

 $\frac{10.1}{33}$ $\frac{9.1}{22}$ $\frac{6.2}{14}$ $\frac{5.9}{-}$ $\frac{6.1}{13}$ $\frac{7.5}{17}$ $\frac{8.2}{25}$ $\frac{7.4}{33}$ $\frac{4.7}{33}$ $\frac{5.0}{12}$ $\frac{5.0}{-}$ $\frac{4.7}{23}$ $\frac{3.8}{24}$ $\frac{3.6}{33}$ $\frac{1.8}{33}$ $\frac{1.8}{23}$ $\frac{4.5}{22}$ $\frac{4.6}{-}$ $\frac{4.5}{24}$ $\frac{2.2}{25}$ $\frac{2.3}{33}$ $\frac{3.0}{33}$ $\frac{2.5}{24}$ $\frac{4.2}{23}$ $\frac{4.0}{-}$ $\frac{3.9}{22}$ $\frac{1.0}{25}$ $\frac{1.4}{33}$ $\frac{6.4}{33}$ $\frac{5.2}{24}$ $\frac{5.1}{-}$ $\frac{5.2}{13}$ $\frac{4.7}{15}$ $\frac{4.7}{26}$ $\frac{4.0}{29}$ $\frac{4.2}{33}$ $\frac{8.0}{33}$ $\frac{6.6}{15}$ $\frac{6.0}{-}$ $\frac{6.0}{18}$ $\frac{7.4}{33}$

(1969-Ent. Lt. P. culv.)

 $\frac{7.1}{33}$ $\frac{7.9}{17}$ $\frac{7.9}{-}$ $\frac{8.0}{12}$ $\frac{8.7}{15}$ $\frac{9.6}{33}$ $\frac{9.8}{33}$ $\frac{10.6}{15}$ $\frac{9.1}{11}$ $\frac{9.1}{-}$ $\frac{9.1}{13}$ $\frac{9.9}{15}$ $\frac{11.4}{33}$ $\frac{10.5}{33}$ $\frac{2.2}{12}$ $\frac{2.0}{10}$ $\frac{2.1}{-}$ $\frac{2.5}{12}$ $\frac{4.0}{16}$ $\frac{5.9}{33}$ $\frac{0.2}{33}$ $\frac{1.0}{27}$ $\frac{4.0}{24}$ $\frac{3.7}{-}$ $\frac{4.0}{16}$ $\frac{4.8}{20}$ $\frac{5.4}{33}$ $\frac{3.8}{33}$ $\frac{4.2}{27}$ $\frac{5.1}{26}$ $\frac{5.0}{-}$ $\frac{5.6}{14}$ $\frac{6.2}{18}$ $\frac{6.9}{33}$ $\frac{8.3}{33}$ $\frac{8.6}{18}$ $\frac{6.2}{13}$ $\frac{6.0}{-}$ $\frac{6.2}{12}$ $\frac{9.8}{19}$ $\frac{10.7}{33}$

Sta.	r	π	—	Elev.	
		994.20			
B.M.	5.27	994.20	5.27	988.93	88.79
22+70	{ Pot Hole L. + RT }			87.9	
	{ No Outlet }				
23+0				88.4	
+50				90.1	
24+0				91.7	
T.P.	9.09	1000.80	- 2.49	991.71	
+50				93.2	
25+0				94.3	
+50				95.7	
76				95.8	
B.M.	5.56	1001.65	4.71	996.09 = (996.12)	
+22				95.8	
+30				96.6	
+44.8	$\pm$ Co. B ²			96.4	
+60				96.0	
+65				94.7	

Lt. Z Rt.

Spits in 8" Oak Sta. 23 + 34 - 52' Al.

$\frac{126}{33}$	$\frac{125}{22}$	$\frac{6.3}{10}$	$\frac{6.3}{-}$	$\frac{6.6}{12}$	$\frac{13.7}{22}$	$\frac{13.4}{33}$
------------------	------------------	------------------	-----------------	------------------	-------------------	-------------------

$\frac{122}{33}$	$\frac{123}{23}$	$\frac{5.9}{11}$	$\frac{5.8}{-}$	$\frac{6.0}{10}$	$\frac{12.5}{24}$	$\frac{12.6}{33}$
------------------	------------------	------------------	-----------------	------------------	-------------------	-------------------

$\frac{9.0}{33}$	$\frac{8.4}{19}$	$\frac{4.1}{12}$	$\frac{4.1}{-}$	$\frac{4.1}{13}$	$\frac{6.3}{19}$	$\frac{5.7}{21}$	$\frac{5.1}{33}$
------------------	------------------	------------------	-----------------	------------------	------------------	------------------	------------------

$\frac{4.0}{33}$	$\frac{3.4}{15}$	$\frac{2.7}{12}$	$\frac{2.5}{-}$	$\frac{2.5}{13}$	$\frac{4.4}{17}$	$\frac{4.4}{20}$	$\frac{7.5}{28}$	$\frac{7.8}{33}$
------------------	------------------	------------------	-----------------	------------------	------------------	------------------	------------------	------------------

Top Large Rock

$\frac{9.4}{33}$	$\frac{8.1}{10}$	$\frac{7.6}{-}$	$\frac{7.6}{13}$	$\frac{9.6}{17}$	$\frac{9.6}{20}$	$\frac{2.6}{30}$	$\frac{2.3}{33}$
------------------	------------------	-----------------	------------------	------------------	------------------	------------------	------------------

$\frac{8.8}{33}$	$\frac{6.7}{10}$	$\frac{6.5}{-}$	$\frac{6.2}{22}$	$\frac{7.7}{30}$	$\frac{7.1}{33}$
------------------	------------------	-----------------	------------------	------------------	------------------

$\frac{7.8}{33}$	$\frac{7.9}{19}$	$\frac{5.4}{12}$	$\frac{5.1}{-}$	$\frac{5.0}{21}$	$\frac{7.4}{30}$	$\frac{7.8}{33}$
------------------	------------------	------------------	-----------------	------------------	------------------	------------------

93.2

100.6

$\frac{7.6}{33}$	$\frac{2.9}{19}$	$\frac{5.4}{13}$	$\frac{5.0}{-}$	$\frac{4.2}{23}$	$\frac{1.3}{28}$	$\frac{0.2}{33}$
------------------	------------------	------------------	-----------------	------------------	------------------	------------------

Top Stone Mon.

$\frac{8.1}{50}$	$\frac{7.4}{18}$	$\frac{5.9}{12}$	$\frac{5.8}{-}$	$\frac{5.3}{22}$	$\frac{6.7}{27}$	$\frac{6.6}{33}$	$\frac{6.2}{50}$
------------------	------------------	------------------	-----------------	------------------	------------------	------------------	------------------

95.1

95.1

$\frac{6.6}{50}$	$\frac{6.1}{22}$	$\frac{5.6}{-}$	$\frac{5.2}{25}$	$\frac{5.3}{50}$	$\frac{5.3}{50}$	Shldr.
------------------	------------------	-----------------	------------------	------------------	------------------	--------

95.3

96.6

Drops Fast.	$\frac{6.4}{76}$	$\frac{5.9}{50}$	$\frac{5.6}{25}$	$\frac{5.2}{-}$	$\frac{5.1}{25}$	$\frac{5.1}{50}$	$\frac{5.4}{100}$	Drops Fast
-------------	------------------	------------------	------------------	-----------------	------------------	------------------	-------------------	------------

95.1

Voculu Road

96.1

$\frac{6.6}{50}$	$\frac{6.3}{25}$	$\frac{5.6}{-}$	$\frac{5.3}{25}$
------------------	------------------	-----------------	------------------

$\frac{5.6}{50}$

93.4

94.8

$\frac{8.3}{50}$	$\frac{7.6}{25}$	$\frac{6.9}{-}$	$\frac{6.6}{19}$	$\frac{6.9}{50}$
------------------	------------------	-----------------	------------------	------------------

Sta.	+	π	-	Elev.
		1001.65		
26+80				98.9
+92				99.5
27				99.6
+120				93.9
+50				92.0
+70				90.7
T.P.	0.51	988.55	13.61	988.04
28				87.0
+60				80.8
T.P.	0.14	976.47	12.22	976.33
29				74.4
+35				70.9
+65				70.6
30				71.3

Sandy Soil

Lt.

E

Rt.

May 28, 1935

W. H. G.
A. O. C.
D. S.
J. B.
L. D. G.

$$\begin{array}{r} 100.9 \\ 0.8 \\ \hline 33 \end{array}$$

$$\begin{array}{r} 2.0 \\ 16 \end{array}$$

27

$$\begin{array}{r} 3.8 \\ 12 \end{array}$$

$$\begin{array}{r} 98.2 \\ 3.5 \\ \hline 33 \end{array}$$

$$\begin{array}{r} 101.3 \\ 0.4 \\ \hline 33 \end{array}$$

$$\begin{array}{r} 1.4 \\ 15 \end{array}$$

$$\begin{array}{r} 2.1 \\ \hline \end{array}$$

$$\begin{array}{r} 2.5 \\ 14 \end{array}$$

$$\begin{array}{r} 99.1 \\ 2.6 \\ \hline 33 \end{array}$$

$$\begin{array}{r} 101.5 \\ 0.2 \\ \hline 33 \end{array}$$

$$\begin{array}{r} 0.5 \\ 76 \end{array}$$

$$\begin{array}{r} 6.6 \\ 21 \end{array}$$

$$\begin{array}{r} 6.6 \\ 5 \end{array}$$

$$\begin{array}{r} 2.0 \\ \hline \end{array}$$

$$\begin{array}{r} 99.7 \\ 2.0 \\ \hline 33 \end{array}$$

$$\begin{array}{r} 100.8 \\ 0.9 \\ \hline 33 \end{array}$$

$$\begin{array}{r} 1.0 \\ 24 \end{array}$$

$$\begin{array}{r} 7.8 \\ 21 \end{array}$$

$$\begin{array}{r} 7.7 \\ \hline \end{array}$$

$$\begin{array}{r} 7.7 \\ 21 \end{array}$$

$$\begin{array}{r} 2.0 \\ 25 \end{array}$$

$$\begin{array}{r} 99.7 \\ 2.0 \\ \hline 33 \end{array}$$

$$\begin{array}{r} 97.1 \\ 4.6 \\ \hline 33 \end{array}$$

$$\begin{array}{r} 4.8 \\ 24 \end{array}$$

$$\begin{array}{r} 9.4 \\ 21 \end{array}$$

$$\begin{array}{r} 9.6 \\ \hline \end{array}$$

$$\begin{array}{r} 9.6 \\ 21 \end{array}$$

$$\begin{array}{r} 5.7 \\ 25 \end{array}$$

$$\begin{array}{r} 96.2 \\ 5.5 \\ \hline 33 \end{array}$$

$$\begin{array}{r} 93.7 \\ 8.0 \\ \hline 33 \end{array}$$

$$\begin{array}{r} 8.8 \\ 24 \end{array}$$

$$\begin{array}{r} 11.0 \\ 23 \end{array}$$

$$\begin{array}{r} 10.9 \\ \hline \end{array}$$

$$\begin{array}{r} 11.1 \\ 13 \end{array}$$

$$\begin{array}{r} 11.1 \\ 33 \end{array}$$

$$\begin{array}{r} 87.8 \\ 0.8 \\ \hline 33 \end{array}$$

$$\begin{array}{r} 1.9 \\ 14 \end{array}$$

$$\begin{array}{r} 1.0 \\ 12 \end{array}$$

$$\begin{array}{r} 1.5 \\ \hline \end{array}$$

$$\begin{array}{r} 1.6 \\ 12 \end{array}$$

$$\begin{array}{r} 6.0 \\ 19 \end{array}$$

$$\begin{array}{r} 81.3 \\ 7.3 \\ \hline 33 \end{array}$$

$$\begin{array}{r} 75.9 \\ 12.7 \\ \hline 33 \end{array}$$

$$\begin{array}{r} 13.4 \\ 22 \end{array}$$

$$\begin{array}{r} 8.1 \\ 12 \end{array}$$

$$\begin{array}{r} 7.7 \\ \hline \end{array}$$

$$\begin{array}{r} 8.6 \\ 14 \end{array}$$

$$\begin{array}{r} 14.0 \\ 22 \end{array}$$

$$\begin{array}{r} 93.6 \\ 15.0 \\ \hline 33 \end{array}$$

$$\begin{array}{r} 73.6 \\ 2.9 \\ \hline 33 \end{array}$$

$$\begin{array}{r} 2.2 \\ 16 \end{array}$$

$$\begin{array}{r} 2.1 \\ \hline \end{array}$$

$$\begin{array}{r} 2.5 \\ 15 \end{array}$$

$$\begin{array}{r} 72.5 \\ 4.0 \\ \hline 33 \end{array}$$

$$\begin{array}{r} 71.4 \\ 5.1 \\ \hline 33 \end{array}$$

$$\begin{array}{r} 5.5 \\ 17 \end{array}$$

$$\begin{array}{r} 5.6 \\ \hline \end{array}$$

$$\begin{array}{r} 5.3 \\ 18 \end{array}$$

$$\begin{array}{r} 71.5 \\ 5.0 \\ \hline 33 \end{array}$$

$$\begin{array}{r} 73.0 \\ 3.5 \\ \hline 33 \end{array}$$

$$\begin{array}{r} 4.8 \\ 5 \end{array}$$

$$\begin{array}{r} 5.9 \\ \hline \end{array}$$

$$\begin{array}{r} 6.7 \\ 17 \end{array}$$

$$\begin{array}{r} 69.8 \\ 6.7 \\ \hline 33 \end{array}$$

$$\begin{array}{r} 70.5 \\ 6.0 \\ \hline 33 \end{array}$$

$$\begin{array}{r} 5.6 \\ 16 \end{array}$$

$$\begin{array}{r} 5.2 \\ \hline \end{array}$$

$$\begin{array}{r} 6.0 \\ 16 \end{array}$$

$$\begin{array}{r} 69.9 \\ 6.6 \\ \hline 33 \end{array}$$

Approx
(Special Ditch Lt. Sta. 29-31)
" Rt. 29-31
"

Sta.	+	π	-	Elev.
		976.47		

30+50				69.1
-------	--	--	--	------

31+0				65.9
------	--	--	--	------

T.P.	1.35	965.50	13.32	963.15
------	------	--------	-------	--------

+50				62.7
-----	--	--	--	------

32				60.2
----	--	--	--	------

+60				60.3
-----	--	--	--	------

33				58.5
----	--	--	--	------

+50				55.9
-----	--	--	--	------

34				54.3
----	--	--	--	------

T.P.	0.33	952.99	12.84	952.66
------	------	--------	-------	--------

+40				52.8
-----	--	--	--	------

+75				47.5
-----	--	--	--	------

35				46.4
----	--	--	--	------

+50				45.7
-----	--	--	--	------

Lt.

Z

Rt.

66.8

$$\begin{array}{r} 9.7 \\ 33 \end{array}$$

$$\begin{array}{r} 8.8 \\ 15 \end{array}$$

$$\begin{array}{r} 7.8 \\ 8 \\ 0 \end{array}$$

$$\begin{array}{r} 7.1 \\ 16 \end{array}$$

69.8

$$\begin{array}{r} 6.7 \\ 33 \end{array}$$

65.0

$$\begin{array}{r} 11.5 \\ 33 \end{array}$$

$$\begin{array}{r} 11.2 \\ 16 \end{array}$$

$$\begin{array}{r} 10.6 \\ 10 \end{array}$$

$$\begin{array}{r} 10.0 \\ 18 \end{array}$$

66.7

$$\begin{array}{r} 9.8 \\ 33 \end{array}$$

61.4

$$\begin{array}{r} 3.9 \\ 33 \end{array}$$

$$\begin{array}{r} 3.5 \\ 18 \end{array}$$

$$\begin{array}{r} 2.6 \\ 11 \end{array}$$

$$\begin{array}{r} 2.8 \\ 16 \end{array}$$

62.7

$$\begin{array}{r} 2.8 \\ 33 \end{array}$$

59.7

$$\begin{array}{r} 5.8 \\ 33 \end{array}$$

$$\begin{array}{r} 5.5 \\ 19 \end{array}$$

$$\begin{array}{r} 4.9 \\ 11 \end{array}$$

$$\begin{array}{r} 5.3 \\ 15 \end{array}$$

59.2

$$\begin{array}{r} 6.3 \\ 33 \end{array}$$

60.7

$$\begin{array}{r} 4.8 \\ 33 \end{array}$$

$$\begin{array}{r} 4.8 \\ 15 \end{array}$$

$$\begin{array}{r} 4.1 \\ 8 \end{array}$$

$$\begin{array}{r} 5.7 \\ 13 \end{array}$$

59.2

$$\begin{array}{r} 6.3 \\ 33 \end{array}$$

59.4

$$\begin{array}{r} 5.9 \\ 33 \end{array}$$

$$\begin{array}{r} 5.9 \\ 7 \end{array}$$

$$\begin{array}{r} 7.0 \\ 17 \end{array}$$

57.5

$$\begin{array}{r} 8.0 \\ 33 \end{array}$$

56.6

$$\begin{array}{r} 8.9 \\ 33 \end{array}$$

$$\begin{array}{r} 9.0 \\ 8 \end{array}$$

$$\begin{array}{r} 9.6 \\ 15 \end{array}$$

55.8

$$\begin{array}{r} 9.7 \\ 33 \end{array}$$

55.0

$$\begin{array}{r} 10.5 \\ 33 \end{array}$$

$$\begin{array}{r} 10.9 \\ 17 \end{array}$$

$$\begin{array}{r} 11.2 \\ 15 \end{array}$$

53.2

$$\begin{array}{r} 12.3 \\ 33 \end{array}$$

52.2

$$\begin{array}{r} 0.8 \\ 33 \end{array}$$

$$\begin{array}{r} 0.6 \\ 11 \end{array}$$

$$\begin{array}{r} 0.2 \\ 11 \end{array}$$

50.6

$$\begin{array}{r} 2.4 \\ 33 \end{array}$$

48.5

$$\begin{array}{r} 4.5 \\ 33 \end{array}$$

$$\begin{array}{r} 5.0 \\ 18 \end{array}$$

$$\begin{array}{r} 4.8 \\ 6 \end{array}$$

$$\begin{array}{r} 5.5 \\ 12 \end{array}$$

46.2

$$\begin{array}{r} 6.8 \\ 33 \end{array}$$

48.2

$$\begin{array}{r} 4.8 \\ 33 \end{array}$$

$$\begin{array}{r} 6.0 \\ 20 \end{array}$$

$$\begin{array}{r} 5.4 \\ 10 \end{array}$$

$$\begin{array}{r} 6.6 \\ 7 \end{array}$$

$$\begin{array}{r} 6.6 \\ 13 \end{array}$$

8.5-W. Surface

$$\begin{array}{r} 9.0 \\ 17 \end{array}$$

$$\begin{array}{r} 8.7 \\ 33 \end{array}$$

48.4

$$\begin{array}{r} 4.6 \\ 33 \end{array}$$

$$\begin{array}{r} 5.9 \\ 16 \end{array}$$

$$\begin{array}{r} 6.5 \\ 12 \end{array}$$

$$\begin{array}{r} 7.8 \\ 10 \end{array}$$

43.0

$$\begin{array}{r} 7.7 \\ 13 \end{array}$$

$$\begin{array}{r} 9.3 \\ 13 \end{array}$$

$$\begin{array}{r} 10.0 \\ 33 \end{array}$$

Sta.	+	π	-	Elev
		952.99		
36				45.0
+50				45.6
B.M.	4.75	953.01	4.75	948.24
37				47.7
+20				46.9
+33				46.6
+42				53.2
+48				53.0
+55				46.8
+75				46.6
38				47.0
+40				46.1
+75				44.4

Lt.

2

Rt.

22

43.9

$$\begin{array}{r} 9.1 \\ 33 \end{array}$$

$$\begin{array}{r} 9.2 \\ 17 \end{array}$$

$$\begin{array}{r} 7.8 \\ 13 \end{array}$$

80

$$\begin{array}{r} 8.3 \\ 9 \end{array}$$

$$\begin{array}{r} 9.1 \\ 12 \end{array}$$

42.0

$$\begin{array}{r} 11.0 \\ 33 \end{array}$$

(P. 2 cul. Drain into Pond Rt.)

$$\begin{array}{r} 9.2 \\ 33 \end{array}$$

$$\begin{array}{r} 8.7 \\ 28 \end{array}$$

$$\begin{array}{r} 7.6 \\ 20 \end{array}$$

74

$$\begin{array}{r} 6.3 \\ 24 \end{array}$$

$$\begin{array}{r} 5.0 \\ 25 \end{array}$$

48.1

$$\begin{array}{r} 4.9 \\ 33 \end{array}$$

Spike 10' oak 50 Rt. Sta. 36 + 50

$$\begin{array}{r} 6.2 \\ 33 \end{array}$$

$$\begin{array}{r} 5.9 \\ 29 \end{array}$$

$$\begin{array}{r} 6.6 \\ 23 \end{array}$$

58

$$\begin{array}{r} 5.7 \\ 23 \end{array}$$

$$\begin{array}{r} 0.3 \\ 24 \end{array}$$

52.8

$$\begin{array}{r} 0.2 \\ 33 \end{array}$$

47.6

$$\begin{array}{r} 5.4 \\ 33 \end{array}$$

$$\begin{array}{r} 5.1 \\ 26 \end{array}$$

$$\begin{array}{r} 6.0 \\ 24 \end{array}$$

41

$$\begin{array}{r} 5.6 \\ 22 \end{array}$$

$$\begin{array}{r} 1.0 \\ 25 \end{array}$$

52.3

$$\begin{array}{r} 10.7 \\ 33 \end{array}$$

47.8

$$\begin{array}{r} 5.2 \\ 33 \end{array}$$

$$\begin{array}{r} 5.3 \\ 18 \end{array}$$

64

$$\begin{array}{r} 6.0 \\ 10 \end{array}$$

$$\begin{array}{r} 10.8 \\ 18 \end{array}$$

53.0

$$\begin{array}{r} 0.0 \\ 33 \end{array}$$

47.7

$$\begin{array}{r} 5.3 \\ 33 \end{array}$$

$$\begin{array}{r} 2.1 \\ 10 \end{array}$$

+0.2

$$\begin{array}{r} 10.7 \\ 12 \end{array}$$

52.5

$$\begin{array}{r} 0.5 \\ 33 \end{array}$$

47.8

$$\begin{array}{r} 5.2 \\ 33 \end{array}$$

$$\begin{array}{r} 3.2 \\ 18 \end{array}$$

0.0

$$\begin{array}{r} 0.2 \\ 13 \end{array}$$

52.2

$$\begin{array}{r} 0.8 \\ 33 \end{array}$$

47.6

$$\begin{array}{r} 5.4 \\ 33 \end{array}$$

$$\begin{array}{r} 2.5 \\ 10 \end{array}$$

62

$$\begin{array}{r} 6.4 \\ 16 \end{array}$$

$$\begin{array}{r} 1.1 \\ 18 \end{array}$$

51.5

$$\begin{array}{r} 1.5 \\ 33 \end{array}$$

46.9

$$\begin{array}{r} 6.1 \\ 33 \end{array}$$

$$\begin{array}{r} 5.3 \\ 25 \end{array}$$

$$\begin{array}{r} 6.9 \\ 24 \end{array}$$

64

$$\begin{array}{r} 7.1 \\ 21 \end{array}$$

$$\begin{array}{r} 2.4 \\ 23 \end{array}$$

50.7

$$\begin{array}{r} 2.3 \\ 33 \end{array}$$

46.5

$$\begin{array}{r} 6.5 \\ 33 \end{array}$$

$$\begin{array}{r} 6.1 \\ 26 \end{array}$$

$$\begin{array}{r} 6.7 \\ 24 \end{array}$$

6.0

$$\begin{array}{r} 5.9 \\ 23 \end{array}$$

$$\begin{array}{r} 3.4 \\ 24 \end{array}$$

49.8

$$\begin{array}{r} 3.2 \\ 33 \end{array}$$

45.3

$$\begin{array}{r} 7.7 \\ 33 \end{array}$$

$$\begin{array}{r} 7.0 \\ 12 \end{array}$$

6.9

$$\begin{array}{r} 6.4 \\ 23 \end{array}$$

$$\begin{array}{r} 6.0 \\ 24 \end{array}$$

47.4

$$\begin{array}{r} 5.6 \\ 33 \end{array}$$

41.8

$$\begin{array}{r} 11.2 \\ 33 \end{array}$$

$$\begin{array}{r} 10.9 \\ 17 \end{array}$$

$$\begin{array}{r} 9.0 \\ 13 \end{array}$$

8.6

$$\begin{array}{r} 8.3 \\ 12 \end{array}$$

$$\begin{array}{r} 9.6 \\ 15 \end{array}$$

43.2

$$\begin{array}{r} 9.8 \\ 33 \end{array}$$

Sta.	+	π	-	Elev.
		953.01		
39				43.6
Top Mon &			12.23	940.78 ✓
+40				43.1
+70				40.8
40				40.7
+50				41.4
41				47.3
T.P.	2.27	959.97 ✓	1.31	951.70 ✓
+30				53.1
+60				54.8
42				54.2
+40				53.6
+75				54.7
43				54.7

Low Spot
No Outlet

40.1

$$\begin{array}{r} 12.9 \\ 33 \end{array}$$

$$\begin{array}{r} 13.0 \\ 20 \end{array}$$

$$\begin{array}{r} 9.4 \\ 12 \end{array}$$

$$\begin{array}{r} 9.4 \\ 11 \end{array}$$

$$\begin{array}{r} 9.5 \\ 11 \end{array}$$

$$\begin{array}{r} 13.0 \\ 18 \end{array}$$

$$\begin{array}{r} 38.9 \\ 33 \end{array}$$

41.2

$$\begin{array}{r} 11.8 \\ 33 \end{array}$$

$$\begin{array}{r} 12.9 \\ 17 \end{array}$$

$$\begin{array}{r} 10.1 \\ 11 \end{array}$$

$$\begin{array}{r} 9.9 \\ 11 \end{array}$$

$$\begin{array}{r} 10.6 \\ 11 \end{array}$$

$$\begin{array}{r} 15.2 \\ 21 \end{array}$$

$$\begin{array}{r} 35.8 \\ 17.2 \\ 33 \end{array}$$

41.5

$$\begin{array}{r} 11.5 \\ 33 \end{array}$$

$$\begin{array}{r} 11.5 \\ 15 \end{array}$$

$$\begin{array}{r} 12.2 \\ 11 \end{array}$$

$$\begin{array}{r} 12.5 \\ 11 \end{array}$$

$$\begin{array}{r} 37.6 \\ 15.4 \\ 33 \end{array}$$

40.7

$$\begin{array}{r} 12.3 \\ 33 \end{array}$$

$$\begin{array}{r} 12.7 \\ 13 \end{array}$$

$$\begin{array}{r} 12.3 \\ 17 \end{array}$$

$$\begin{array}{r} 12.3 \\ 17 \end{array}$$

$$\begin{array}{r} 40.4 \\ 12.6 \\ 33 \end{array}$$

43.0

$$\begin{array}{r} 10.0 \\ 33 \end{array}$$

$$\begin{array}{r} 11.0 \\ 17 \end{array}$$

$$\begin{array}{r} 11.6 \\ 12 \end{array}$$

$$\begin{array}{r} 13.4 \\ 12 \end{array}$$

$$\begin{array}{r} 38.1 \\ 14.9 \\ 33 \end{array}$$

49.4

$$\begin{array}{r} 3.1 \\ 33 \end{array}$$

$$\begin{array}{r} 4.5 \\ 19 \end{array}$$

$$\begin{array}{r} 5.1 \\ 15 \end{array}$$

$$\begin{array}{r} 6.4 \\ 15 \end{array}$$

$$\begin{array}{r} 45.6 \\ 2.4 \\ 33 \end{array}$$

52.3

$$\begin{array}{r} 7.7 \\ 33 \end{array}$$

$$\begin{array}{r} 7.9 \\ 12 \end{array}$$

$$\begin{array}{r} 6.9 \\ 17 \end{array}$$

$$\begin{array}{r} 6.1 \\ 17 \end{array}$$

$$\begin{array}{r} 54.0 \\ 6.0 \\ 33 \end{array}$$

52.0

$$\begin{array}{r} 8.0 \\ 33 \end{array}$$

$$\begin{array}{r} 7.0 \\ 11 \end{array}$$

$$\begin{array}{r} 5.2 \\ 16 \end{array}$$

$$\begin{array}{r} 3.0 \\ 16 \end{array}$$

$$\begin{array}{r} 58.8 \\ 1.2 \\ 33 \end{array}$$

51.8

$$\begin{array}{r} 8.2 \\ 33 \end{array}$$

$$\begin{array}{r} 7.4 \\ 11 \end{array}$$

$$\begin{array}{r} 5.8 \\ 15 \end{array}$$

$$\begin{array}{r} 4.0 \\ 15 \end{array}$$

$$\begin{array}{r} 57.3 \\ 2.7 \\ 33 \end{array}$$

63.4

$$\begin{array}{r} 6.6 \\ 33 \end{array}$$

$$\begin{array}{r} 6.6 \\ 15 \end{array}$$

$$\begin{array}{r} 6.4 \\ 15 \end{array}$$

$$\begin{array}{r} 7.1 \\ 15 \end{array}$$

$$\begin{array}{r} 53.1 \\ 6.9 \\ 33 \end{array}$$

55.0

$$\begin{array}{r} 5.0 \\ 33 \end{array}$$

$$\begin{array}{r} 5.1 \\ 12 \end{array}$$

$$\begin{array}{r} 5.3 \\ 14 \end{array}$$

$$\begin{array}{r} 4.8 \\ 14 \end{array}$$

$$\begin{array}{r} 53.2 \\ 6.8 \\ 33 \end{array}$$

54.9

$$\begin{array}{r} 5.1 \\ 33 \end{array}$$

$$\begin{array}{r} 5.6 \\ 14 \end{array}$$

$$\begin{array}{r} 5.3 \\ 17 \end{array}$$

$$\begin{array}{r} 5.0 \\ 17 \end{array}$$

$$\begin{array}{r} 53.7 \\ 6.3 \\ 33 \end{array}$$

No Outlet

Sta.	+	π	-	Elev.
		959.97 ✓		
43+50				53.2
44				53.8
+50				53.6
+75				54.5
45				53.8
+35				50.0
T.P.	1.02	949.57 ✓	11.42	948.55 ✓
+70				45.5
46				43.3
+40				45.4
+75				46.2
47				43.3
+15				40.1

Sandy Soil
Rock on Surface

Lt

Z

Rt.

24

54.0

 $\frac{6.0}{33}$ $\frac{6.8}{12}$ $\frac{6.8}{3}$ $\frac{7.7}{3} \frac{8.4}{14}$

51.7

 $\frac{8.3}{33}$

53.4

 $\frac{6.6}{33}$

X

 $\frac{7.0}{6}$ $\frac{6.2}{4}$ $\frac{6.9}{4}$ $\frac{7.0}{16}$

52.2

 $\frac{7.8}{33}$

53.6

 $\frac{6.4}{33}$ $\frac{6.5}{9}$ $\frac{6.4}{9}$ $\frac{8.6}{9}$

50.4

 $\frac{9.6}{33}$

53.4

 $\frac{6.6}{33}$ $\frac{6.1}{18}$ $\frac{5.5}{9}$ $\frac{7.2}{9}$ $\frac{7.5}{14}$

50.0

 $\frac{10.0}{33}$

52.5

 $\frac{7.5}{33}$ $\frac{7.1}{18}$ $\frac{6.9}{6}$ $\frac{6.2}{7}$ $\frac{7.7}{7}$ $\frac{7.9}{15}$

49.5

 $\frac{10.5}{33}$

48.7

 $\frac{11.3}{33}$ $\frac{11.1}{11}$ $\frac{10.0}{14}$ $\frac{11.0}{14}$

47.7

 $\frac{12.3}{33}$

Nail in Top Stp. 6' Rt. 45 + 50

 $\frac{6.4}{33}$ $\frac{5.6}{17}$ $\frac{4.7}{3}$ $\frac{4.1}{3}$ $\frac{4.4}{3}$ $\frac{3.2}{13}$

48.8

 $\frac{0.8}{33}$

Sta. 46 to P. Cul. & Drains Lt.

 $\frac{8.9}{33}$ $\frac{8.1}{16}$ $\frac{6.9}{3}$ $\frac{6.3}{2}$ $\frac{6.8}{7}$ $\frac{5.6}{7}$ $\frac{3.9}{20}$ $\frac{2.3}{33}$

41.1

 $\frac{8.5}{33}$ $\frac{6.6}{17}$ $\frac{5.6}{6}$ $\frac{4.2}{4}$ $\frac{3.8}{15}$ $\frac{2.5}{15}$

47.9

 $\frac{1.7}{33}$

42.2

 $\frac{7.4}{33}$ $\frac{4.8}{6}$ $\frac{3.9}{4}$ $\frac{3.4}{7}$ $\frac{2.9}{7}$ $\frac{2.1}{33}$

47.5

40.3

 $\frac{9.3}{33}$ $\frac{8.5}{18}$ $\frac{7.5}{6}$ $\frac{6.3}{17}$ $\frac{6.1}{17}$

43.6

 $\frac{6.0}{33}$

38.6

 $\frac{11.0}{33}$ $\frac{11.0}{24}$ $\frac{9.7}{10}$ $\frac{9.5}{24}$ $\frac{9.6}{24}$ $\frac{8.9}{25}$

40.5

 $\frac{9.1}{33}$

Sta.	+	π	-	Elev.
		949.57		
47+50				37.6
+75				36.5
48				35.9
T.P.	1.27	937.52	13.32	936.25
+25				34.3
+63				31.0
T.P.	4.68	931.56	10.64	926.88
+75				26.8
49				24.8
+50				24.4
+80				25.0
50				26.6
+25				26.9
+65				25.4

Lt.

E.

Rt.

25

36.5

$$\begin{array}{r} 13.1 \\ 33 \end{array}$$

$$\begin{array}{r} 13.0 \\ 14 \end{array}$$

$$\begin{array}{r} 12.9 \\ 3 \end{array}$$

$$\begin{array}{r} 12.6 \\ 12 \end{array}$$

$$\begin{array}{r} 12.2 \\ 12 \end{array}$$

$$\begin{array}{r} 13.0 \\ 14 \end{array}$$

$$\begin{array}{r} 12.1 \\ 33 \end{array}$$

37.5

37.4

$$\begin{array}{r} 12.2 \\ 33 \end{array}$$

$$\begin{array}{r} 12.4 \\ 22 \end{array}$$

$$\begin{array}{r} 13.0 \\ 21 \end{array}$$

$$\begin{array}{r} 13.1 \\ 14 \end{array}$$

$$\begin{array}{r} 13.0 \\ 14 \end{array}$$

38.1

$$\begin{array}{r} 11.5 \\ 33 \end{array}$$

38.4

$$\begin{array}{r} 11.2 \\ 33 \end{array}$$

$$\begin{array}{r} 11.5 \\ 24 \end{array}$$

$$\begin{array}{r} 13.9 \\ 23 \end{array}$$

$$\begin{array}{r} 13.7 \\ 12 \end{array}$$

$$\begin{array}{r} 13.9 \\ 12 \end{array}$$

$$\begin{array}{r} 13.4 \\ 13 \end{array}$$

34.6

$$\begin{array}{r} 15.0 \\ 33 \end{array}$$

36.3

$$\begin{array}{r} 1.2 \\ 33 \end{array}$$

$$\begin{array}{r} 1.8 \\ 25 \end{array}$$

$$\begin{array}{r} 3.2 \\ 23 \end{array}$$

$$\begin{array}{r} 3.2 \\ 23 \end{array}$$

$$\begin{array}{r} 3.2 \\ 12 \end{array}$$

$$\begin{array}{r} 4.2 \\ 12 \end{array}$$

$$\begin{array}{r} 6.8 \\ 18 \end{array}$$

29.5

$$\begin{array}{r} 8.0 \\ 33 \end{array}$$

30.7

$$\begin{array}{r} 6.8 \\ 33 \end{array}$$

$$\begin{array}{r} 7.7 \\ 16 \end{array}$$

$$\begin{array}{r} 5.6 \\ 13 \end{array}$$

$$\begin{array}{r} 6.5 \\ 13 \end{array}$$

$$\begin{array}{r} 6.6 \\ 13 \end{array}$$

$$\begin{array}{r} 11.8 \\ 21 \end{array}$$

25.1

$$\begin{array}{r} 12.4 \\ 33 \end{array}$$

28.7

$$\begin{array}{r} 2.9 \\ 33 \end{array}$$

$$\begin{array}{r} 3.6 \\ 14 \end{array}$$

$$\begin{array}{r} 4.8 \\ 12 \end{array}$$

$$\begin{array}{r} 6.0 \\ 12 \end{array}$$

$$\begin{array}{r} 6.6 \\ 21 \end{array}$$

24.8

$$\begin{array}{r} 6.8 \\ 33 \end{array}$$

26.9

$$\begin{array}{r} 4.7 \\ 33 \end{array}$$

$$\begin{array}{r} 5.7 \\ 10 \end{array}$$

$$\begin{array}{r} 6.7 \\ 6 \end{array}$$

$$\begin{array}{r} 6.8 \\ 20 \end{array}$$

$$\begin{array}{r} 7.6 \\ 20 \end{array}$$

24.3

$$\begin{array}{r} 7.3 \\ 33 \end{array}$$

26.5

$$\begin{array}{r} 5.1 \\ 33 \end{array}$$

$$\begin{array}{r} 6.6 \\ 15 \end{array}$$

$$\begin{array}{r} 7.2 \\ 20 \end{array}$$

$$\begin{array}{r} 7.5 \\ 20 \end{array}$$

24.4

$$\begin{array}{r} 7.2 \\ 33 \end{array}$$

(P. & C. U. Sta. 49+50 - Dr. Rt.)

27.5

$$\begin{array}{r} 4.1 \\ 33 \end{array}$$

$$\begin{array}{r} 5.6 \\ 7 \end{array}$$

$$\begin{array}{r} 6.6 \\ 13 \end{array}$$

$$\begin{array}{r} 6.5 \\ 13 \end{array}$$

25.1

$$\begin{array}{r} 6.5 \\ 33 \end{array}$$

27.9

$$\begin{array}{r} 3.8 \\ 33 \end{array}$$

$$\begin{array}{r} 4.1 \\ 13 \end{array}$$

$$\begin{array}{r} 5.0 \\ 16 \end{array}$$

$$\begin{array}{r} 5.7 \\ 16 \end{array}$$

$$\begin{array}{r} 6.3 \\ 20 \end{array}$$

25.2

$$\begin{array}{r} 6.4 \\ 33 \end{array}$$

27.6

$$\begin{array}{r} 4.0 \\ 33 \end{array}$$

$$\begin{array}{r} 4.3 \\ 27 \end{array}$$

$$\begin{array}{r} 4.4 \\ 8 \end{array}$$

$$\begin{array}{r} 4.7 \\ 14 \end{array}$$

$$\begin{array}{r} 4.9 \\ 14 \end{array}$$

$$\begin{array}{r} 5.6 \\ 21 \end{array}$$

26.8

$$\begin{array}{r} 4.8 \\ 33 \end{array}$$

25.8

$$\begin{array}{r} 5.8 \\ 33 \end{array}$$

$$\begin{array}{r} 6.6 \\ 16 \end{array}$$

$$\begin{array}{r} 6.2 \\ 10 \end{array}$$

$$\begin{array}{r} 5.7 \\ 10 \end{array}$$

$$\begin{array}{r} 6.1 \\ 17 \end{array}$$

27.2

$$\begin{array}{r} 4.4 \\ 33 \end{array}$$

$$\begin{array}{r} 7.05 \\ \text{W. Surface} \end{array}$$

Sta. + A - Elev.

931.56

51 25.7

+25 26.2

+55 26.1

+75 23.9

52 23.4

+45 21.3

+65 21.8

+78 22.8

+84 23.2

+95.4

B.M. 7.87 923.69

53 2 Extended 7.9 23.7

+50 8.1 22.9

54 9.4 22.2

B.M. 3.95 927.64 923.69

B.M. 8.18 919.46 919.50

Lt.

C

Rt.

26

25.0

$$\frac{6.6}{33}$$

$$\frac{6.2}{15}$$

$$\frac{5.9}{13}$$

$$\frac{5.9}{6}$$

$$\frac{5.4}{24}$$

$$\frac{5.3}{25}$$

$$\frac{4.4}{25}$$

$$\frac{4.3}{33}$$

27.3

P-Ent @ Sta 51 Lt. R Culv.

$$\frac{7.1}{33}$$

$$\frac{7.0}{23}$$

$$\frac{6.3}{14}$$

$$\frac{5.4}{12}$$

$$\frac{5.4}{23}$$

$$\frac{4.9}{23}$$

$$\frac{3.2}{26}$$

$$\frac{2.9}{33}$$

28.7

25.1

$$\frac{6.5}{33}$$

$$\frac{8.0}{15}$$

$$\frac{7.0}{12}$$

$$\frac{6.5}{10}$$

$$\frac{6.0}{10}$$

$$\frac{5.6}{23}$$

$$\frac{2.1}{25}$$

$$\frac{1.0}{33}$$

30.6

26.7

$$\frac{4.9}{33}$$

$$\frac{6.3}{28}$$

$$\frac{6.6}{19}$$

$$\frac{7.7}{10}$$

$$\frac{8.1}{18}$$

$$\frac{7.1}{25}$$

$$\frac{7.0}{26}$$

$$\frac{4.6}{26}$$

29.3

28.4

$$\frac{3.2}{33}$$

$$\frac{4.2}{27}$$

$$\frac{6.7}{24}$$

$$\frac{7.0}{9}$$

$$\frac{8.1}{5}$$

$$\frac{8.2}{4}$$

$$\frac{9.1}{12}$$

$$\frac{8.6}{14}$$

$$\frac{9.4}{20}$$

$$\frac{8.6}{20}$$

$$\frac{4.8}{33}$$

26.8

26.8

$$\frac{4.8}{33}$$

$$\frac{6.6}{26}$$

$$\frac{8.0}{24}$$

$$\frac{8.8}{11}$$

$$\frac{10.1}{8}$$

$$\frac{10.3}{10}$$

$$\frac{9.4}{24}$$

$$\frac{8.7}{24}$$

$$\frac{7.1}{33}$$

24.5

23.1

$$\frac{8.5}{33}$$

$$\frac{9.1}{30}$$

$$\frac{9.1}{10}$$

$$\frac{9.8}{6}$$

$$\frac{9.8}{4}$$

$$\frac{9.9}{6}$$

$$\frac{8.9}{20}$$

$$\frac{8.8}{20}$$

$$\frac{8.2}{33}$$

23.4

20.6

Ditch =

$$\frac{11.0}{40}$$

$$\frac{9.5}{28}$$

$$\frac{8.9}{13}$$

$$\frac{8.8}{10}$$

$$\frac{8.6}{10}$$

23.4

$$\frac{8.2}{33}$$

- Ditch

(R & Culv. Sta. 5+78)

$$\frac{11.0}{50}$$

$$\frac{8.8}{17}$$

$$\frac{8.4}{12}$$

$$\frac{8.0}{12}$$

25.5

$$\frac{6.1}{50}$$

Sh Hr.

21.6

$$\frac{10.0}{50}$$

25.8

$$\frac{5.8}{50}$$

$$\frac{4.4}{78}$$

S.S.

(Remove 15"x10" and 15"x16")

Top Stone Mon.

Spike in 14" oak 60' Lt. 53+15 = (Otro West. N.)

Beach Levels.

	+	π	-	Elev.
B.M.	9.81	887.45		877.64
	12.70	899.55	0.60	886.85
	7.99	907.19	0.35	899.20
	12.04	918.83	0.40	906.79
	12.07	930.05	0.85	917.98
	12.93	942.48	0.50	929.55
	7.21	949.19	0.50	941.98
B.M.			4.75	944.44

Check Levels

B.M.	10.53	888.17		877.64
	12.80	900.59	0.38	887.79
	8.34	908.31	0.62	899.97
	13.33	921.12	0.52	907.79
	12.65	933.21	0.56	920.56
	13.78	946.53	0.46	932.75

B.M.	11.43		2.13	944.40
	13.06	957.46	4.67	944.40
	8.93	965.90	.49	956.97
	13.41	976.70	2.61	963.29
	13.52	989.68	0.54	976.16

B.M.	8.40	989.68	8.40	981.28
	10.51	999.16	1.03	988.65
	0.60	993.31	6.45	992.71

B.M.	8.62	997.55	4.38	988.93
	4.21	1000.38	1.38	996.17

B.M.	4.26	1000.38	4.26	996.12
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Spike in 20" Oak 35' N. Elmer & Western

Spike in P.D. #320 N.E. Cor. Co. Rd. "B" & Western.

Spike in 20" Oak 35' No. Elmer & Western.

Spike in P.D. #320 N.E. Cor. Co. Rd. "B" & Western.

↓ Spike in Top 30" Cott. Stp. 75' Lt. Sta. 13+35

Spike in 8" Oak 52' Rt. Sta. 23+34

Top Stone Mon. Co. Rd. - B²

(Check Levels Contd.)

	+	Σ	-	Elev.
		1000.38		
	0.80	988.11	13.07	987.31
	0.42	974.86	13.67	974.44
	0.32	961.91	13.27	961.59
	0.92	953.61	9.22	952.69
B.M.	5.35	953.61	5.35	948.26
	4.10	956.32	1.39	952.22
	0.25	944.20	12.37	943.95
	0.28	931.60	12.88	931.32
B.M.			7.87	923.73
B.M.			12.10	919.50

Spike in 10" Oak 50' Lt. Sta. 36+50

Top Stone Mon. Co. Bld "C" & Western.

Spike in 14" Oak 60' Lt. Sta. 53+15

