

B20-D12

Dr. 12 - Bk. 20

OFFICE OF COUNTY ENGINEER
RAMSEY CO. MINN.

PLAN Survey

ELM STREET

From Willow Ave. To White Bear Ave.

Road Acc't. No. W-54

Date Filed. 12-29-38

File.

ELM-ST.

Plan Survey

From the West $\frac{1}{4}$ Cor. of the
N.W. $\frac{1}{4}$ of Sec. 35 to the East
 $\frac{1}{4}$ Cor. of the N.W. $\frac{1}{4}$ (White Bear
Ave) of Sec. 35 White Bear Township.

$\frac{12}{38}$

Angle

Sts. Point Lt. Rt.

26+44⁰² P.O.T.

18+00⁶² P.O.T.

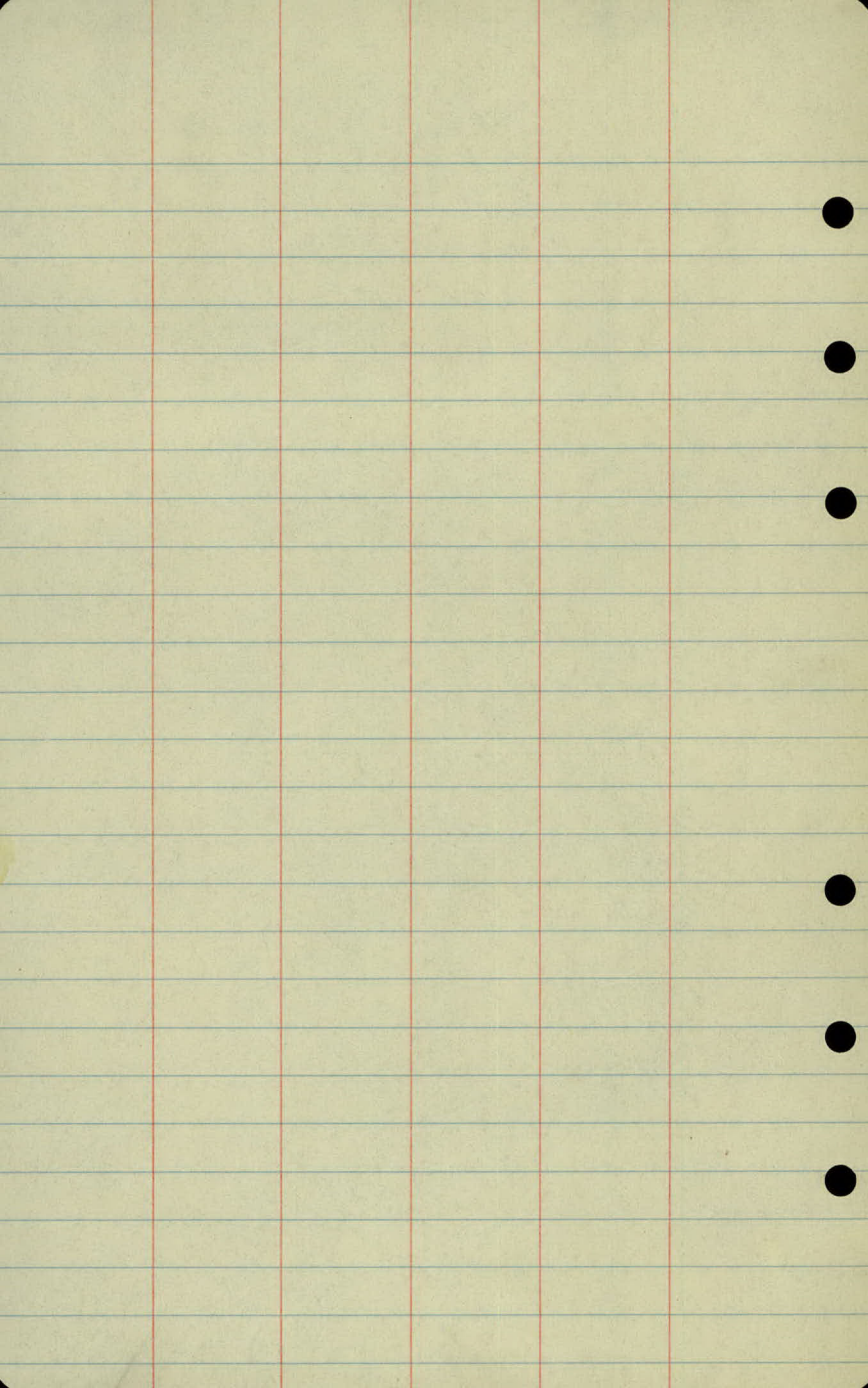
6+28⁰⁸ P.O.T.

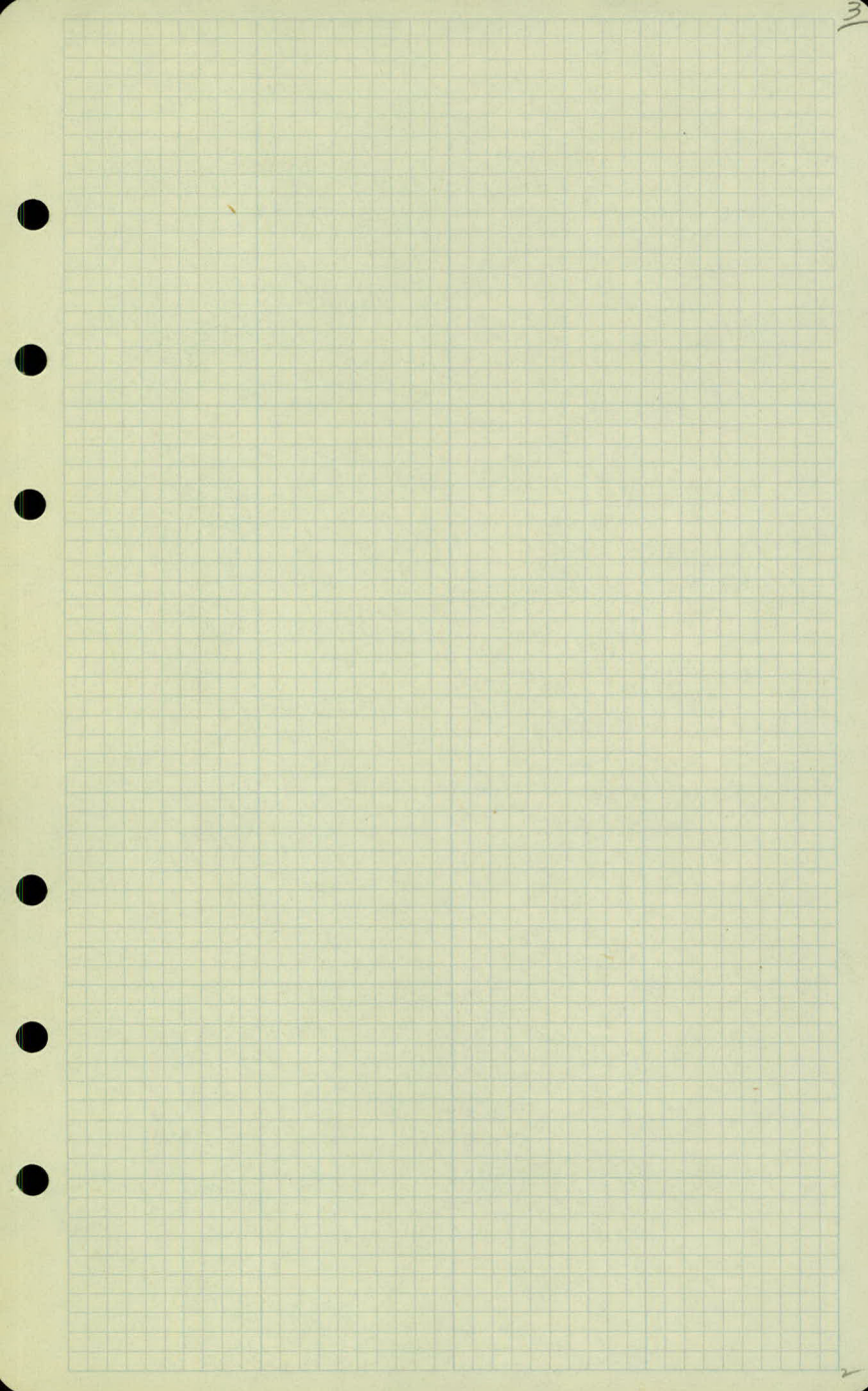
0+00 P.O.T.

East $\frac{1}{4}$ Cor. of N.W. $\frac{1}{4}$ Sec. 35 - Drill Hole in Basement.

Refer To plan survey Orchard
Lane Pg. 3.

2nd N.W. $\frac{1}{4}$ Cor. of N.W. $\frac{1}{4}$ Sec. 35





6

5

+98 Prop Iron 393' 0----

4

3

2

1

0+00

+98 To Cor 19'

+99 Ent 12' x 14' CM. 12'

Fc 19'

Fc 19'

Fc 19'

Cultivated

Iron Posts
3' Woven Wire 5 Strands. Heavy Wire

8' Wagon trail Follows &

Cultivated

+67 To Cor 198

West Line Sec 35

Cultivated

13

12

11

10

9

+27 Prop Iron

0-----
33.5"

8

7

+61 Prop Iron 0-----
33.3"

6

Cultivated

8' Wagon trail Follows R

Cultivated

20

+12 Prop Iron

1
1

19

18 +19 Prop Iron

0-----
38.7'

17

+154 Prop Iron

0-----
38.9'

16

15

+90 Prop Iron

0-----
33.15'

14

13

Cultivated

5' Water Trail Follows &

Cultivated

f69 X Drain 12 x 22 CM

-9'

26 +12 Prop Iron

0 - - - - 0
33' 326

+12 Prop Iron

25

24

23

22

+49 Prop Iron

315"
0 - - -

21

20

26+4407 * White Bear Ave

20' 1C Conc Pave

+19 X Drain 12" X 42' CM

20'-22'

Cultivated

Waste

+10 PP 33'

+48 End Yard

18' 15' 10" House 30'

+18 Cor House 45'

Yard

30' Barn 18'

+82 End

+53 X Drain 15" X 200M

8'-12'

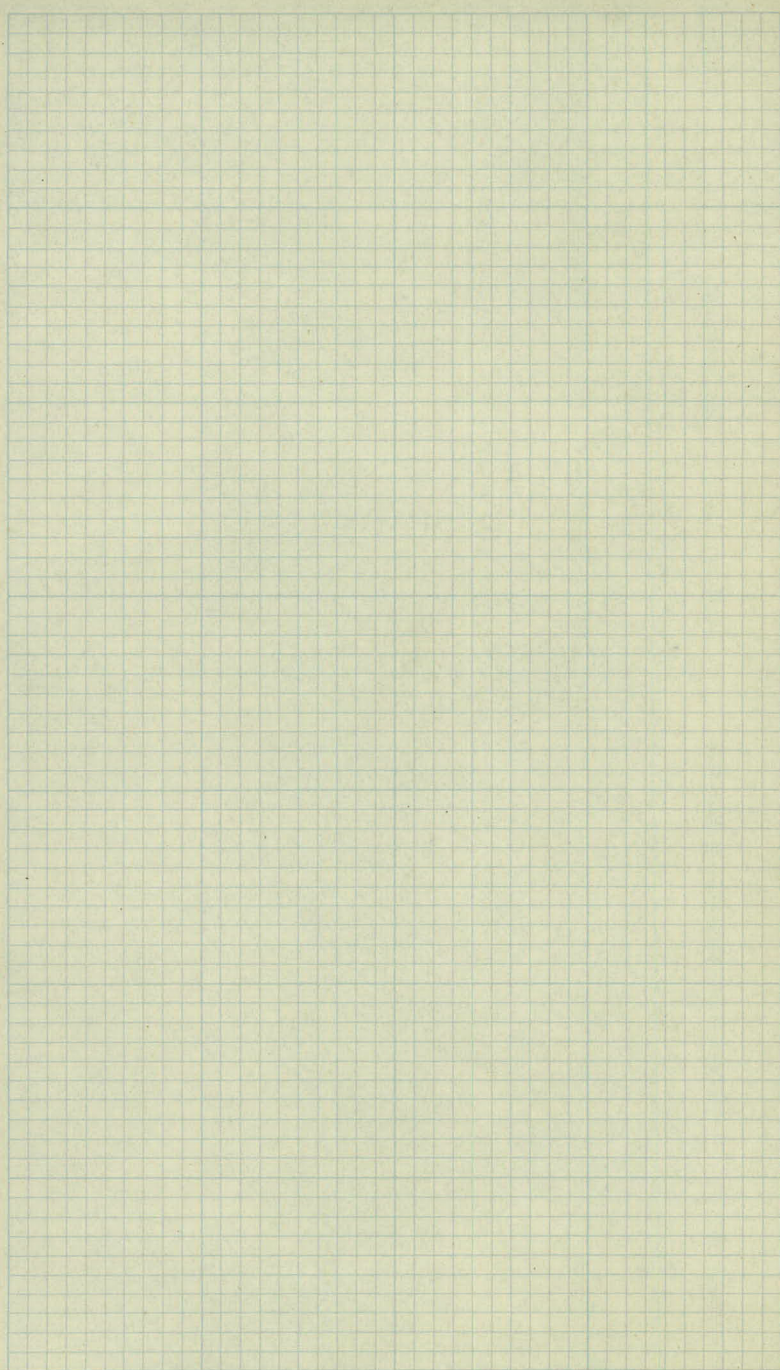
+63 Cor Barn 40'

+53 Reg. Yard

Cultivated

8' Wagon Trail 15' 10" 8'-12'

Cultivated



10

ELM ST.

Cross Sections.

From the West $\frac{1}{4}$ Cor. of the N.W. $\frac{1}{4}$
of Sec. 35 to the East $\frac{1}{4}$ Cor. of the
N.W. $\frac{1}{4}$ (White Bear Arc) of Sec. 35.
White Bear Township.

2

Sta.	+	π	-	Elev.
B.M.	2.36	957.79		950.43

0+00

43.4

+25

41.6

+50

39.6

T.P.	1.90	947.59	12.10	940.69
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1+00

35.3

+50

34.1

2

34.6

+50

35.6

3

38.5

T.P.	17.27	951.37	347	939.12
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+50

40.8

4

43.5

+50

46.1

5

48.2

Lt.

E

Rt.

Stake at Fence 150' Rt. 5 1/2. 14+80

$$\begin{array}{r} 75 \\ 50 \end{array} \quad \begin{array}{r} 78 \\ 45 \end{array} \quad \begin{array}{r} 88 \\ 17 \end{array} \quad \begin{array}{r} 94 \\ 15 \end{array} \quad \begin{array}{r} 103 \\ 15 \end{array} \quad \begin{array}{r} 96 \\ 19 \end{array} \quad \begin{array}{r} 113 \\ 50 \end{array}$$

$$\begin{array}{r} 104 \\ 50 \end{array} \quad \begin{array}{r} 116 \\ 13 \end{array} \quad \begin{array}{r} 111 \\ 6 \end{array} \quad \begin{array}{r} 112 \\ 6 \end{array} \quad \begin{array}{r} 107 \\ 6 \end{array} \quad \begin{array}{r} 117 \\ 29 \end{array} \quad \begin{array}{r} 132 \\ 50 \end{array}$$

$$\begin{array}{r} 122 \\ 50 \end{array} \quad \begin{array}{r} 136 \\ 21 \end{array} \quad \begin{array}{r} 143 \\ 13 \end{array} \quad \begin{array}{r} 132 \\ 8 \end{array} \quad \begin{array}{r} 132 \\ 6 \end{array} \quad \begin{array}{r} 136 \\ 6 \end{array} \quad \begin{array}{r} 132 \\ 18 \end{array} \quad \begin{array}{r} 153 \\ 50 \end{array}$$

Drainage

$$\begin{array}{r} 54 \\ 50 \end{array} \quad \begin{array}{r} 64 \\ 31 \end{array} \quad \begin{array}{r} 70 \\ 11 \end{array} \quad \begin{array}{r} 73 \\ 8 \end{array} \quad \begin{array}{r} 73 \\ 8 \end{array} \quad \begin{array}{r} 82 \\ 14 \end{array} \quad \begin{array}{r} 102 \\ 50 \end{array}$$

$$\begin{array}{r} 56 \\ 50 \end{array} \quad \begin{array}{r} 70 \\ 30 \end{array} \quad \begin{array}{r} 82 \\ 6 \end{array} \quad \begin{array}{r} 85 \\ 7 \end{array} \quad \begin{array}{r} 86 \\ 7 \end{array} \quad \begin{array}{r} 95 \\ 14 \end{array} \quad \begin{array}{r} 108 \\ 50 \end{array}$$

$$\begin{array}{r} 44 \\ 50 \end{array} \quad \begin{array}{r} 61 \\ 30 \end{array} \quad \begin{array}{r} 74 \\ 14 \end{array} \quad \begin{array}{r} 80 \\ 7 \end{array} \quad \begin{array}{r} 80 \\ 7 \end{array} \quad \begin{array}{r} 88 \\ 13 \end{array} \quad \begin{array}{r} 104 \\ 50 \end{array}$$

$$\begin{array}{r} 30 \\ 50 \end{array} \quad \begin{array}{r} 50 \\ 26 \end{array} \quad \begin{array}{r} 55 \\ 14 \end{array} \quad \begin{array}{r} 67 \\ 14 \end{array} \quad \begin{array}{r} 63 \\ 4 \end{array} \quad \begin{array}{r} 70 \\ 7 \end{array} \quad \begin{array}{r} 65 \\ 7 \end{array} \quad \begin{array}{r} 74 \\ 14 \end{array} \quad \begin{array}{r} 50 \\ 50 \end{array}$$

$$\begin{array}{r} 10 \\ 50 \end{array} \quad \begin{array}{r} 29 \\ 28 \end{array} \quad \begin{array}{r} 35 \\ 13 \end{array} \quad \begin{array}{r} 40 \\ 11 \end{array} \quad \begin{array}{r} 41 \\ 9 \end{array} \quad \begin{array}{r} 44 \\ 9 \end{array} \quad \begin{array}{r} 56 \\ 18 \end{array} \quad \begin{array}{r} 68 \\ 50 \end{array}$$

$$\begin{array}{r} 94 \\ 50 \end{array} \quad \begin{array}{r} 102 \\ 27 \end{array} \quad \begin{array}{r} 110 \\ 19 \end{array} \quad \begin{array}{r} 113 \\ 11 \end{array} \quad \begin{array}{r} 106 \\ 6 \end{array} \quad \begin{array}{r} 106 \\ 7 \end{array} \quad \begin{array}{r} 107 \\ 7 \end{array} \quad \begin{array}{r} 104 \\ 16 \end{array} \quad \begin{array}{r} 139 \\ 50 \end{array}$$

$$\begin{array}{r} 71 \\ 50 \end{array} \quad \begin{array}{r} 82 \\ 22 \end{array} \quad \begin{array}{r} 75 \\ 14 \end{array} \quad \begin{array}{r} 81 \\ 12 \end{array} \quad \begin{array}{r} 79 \\ 12 \end{array} \quad \begin{array}{r} 79 \\ 12 \end{array} \quad \begin{array}{r} 75 \\ 16 \end{array} \quad \begin{array}{r} 79 \\ 36 \end{array} \quad \begin{array}{r} 86 \\ 50 \end{array}$$

$$\begin{array}{r} 55 \\ 50 \end{array} \quad \begin{array}{r} 58 \\ 45 \end{array} \quad \begin{array}{r} 56 \\ 19 \end{array} \quad \begin{array}{r} 54 \\ 8 \end{array} \quad \begin{array}{r} 49 \\ 3 \end{array} \quad \begin{array}{r} 53 \\ 9 \end{array} \quad \begin{array}{r} 53 \\ 9 \end{array} \quad \begin{array}{r} 53 \\ 13 \end{array} \quad \begin{array}{r} 46 \\ 16 \end{array} \quad \begin{array}{r} 40 \\ 43 \end{array} \quad \begin{array}{r} 43 \\ 50 \end{array}$$

$$\begin{array}{r} 28 \\ 50 \end{array} \quad \begin{array}{r} 22 \\ 14 \end{array} \quad \begin{array}{r} 32 \\ 11 \end{array} \quad \begin{array}{r} 23 \\ 6 \end{array} \quad \begin{array}{r} 31 \\ 6 \end{array} \quad \begin{array}{r} 31 \\ 6 \end{array} \quad \begin{array}{r} 28 \\ 14 \end{array} \quad \begin{array}{r} 18 \\ 27 \end{array} \quad \begin{array}{r} 24 \\ 50 \end{array}$$

Sta.	+	π	-	Elev.
		951.39		
5+50				49.8
T.P.	5.50	956.62	0.27	951.12 ✓
6				50.8
+50				50.9
7				50.8
+50				51.3
8				51.7
+50				51.0
9				51.2
		1		
B.M.	4.40	956.62 ✓	4.20	952.42 ✓
+50				51.4
10				51.3
+50				51.3

Lt.

2

Rt.

$\frac{0.7}{50}$ $\frac{0.8}{27}$ $\frac{1.2}{10}$ $\frac{1.3}{5}$ $\frac{1.6}{11}$ $\frac{1.6}{11}$ $\frac{1.8}{33}$ $\frac{2.4}{50}$

Top of 446 50 6428.8

$\frac{4.3}{50}$ $\frac{5.2}{17}$ $\frac{6.0}{9}$ $\frac{6.7}{4}$ $\frac{8.8}{11}$ $\frac{5.6}{11}$ $\frac{5.7}{37}$ $\frac{5.9}{50}$

$\frac{5.2}{50}$ $\frac{6.3}{16}$ $\frac{6.4}{11}$ $\frac{5.7}{5}$ $\frac{5.7}{7}$ $\frac{5.8}{7}$ $\frac{6.7}{14}$ $\frac{6.7}{50}$

$\frac{4.7}{50}$ $\frac{6.1}{19}$ $\frac{6.2}{11}$ $\frac{5.8}{7}$ $\frac{5.8}{7}$ $\frac{5.8}{7}$ $\frac{6.7}{13}$ $\frac{6.7}{40}$ $\frac{6.8}{50}$

$\frac{3.7}{50}$ $\frac{5.1}{16}$ $\frac{5.2}{5}$ $\frac{5.3}{7}$ $\frac{5.4}{7}$ $\frac{6.3}{12}$ $\frac{6.2}{28}$ $\frac{6.5}{50}$

$\frac{4.1}{50}$ $\frac{4.7}{28}$ $\frac{5.0}{18}$ $\frac{5.2}{10}$ $\frac{4.8}{6}$ $\frac{4.9}{7}$ $\frac{5.0}{7}$ $\frac{5.6}{12}$ $\frac{5.5}{50}$

$\frac{5.3}{50}$ $\frac{5.5}{4}$ $\frac{5.6}{7}$ $\frac{5.5}{7}$ $\frac{5.9}{12}$ $\frac{4.7}{50}$

$\frac{5.4}{50}$ $\frac{5.0}{11}$ $\frac{5.4}{4}$ $\frac{5.4}{11}$ $\frac{5.5}{11}$ $\frac{3.8}{50}$

Spike in F. Post 100' Lt. Sta. 11400

$\frac{5.0}{50}$ $\frac{5.7}{11}$ $\frac{5.3}{6}$ $\frac{5.2}{8}$ $\frac{5.1}{8}$ $\frac{5.1}{18}$ $\frac{3.1}{50}$

$\frac{4.7}{50}$ $\frac{5.7}{13}$ $\frac{5.3}{8}$ $\frac{5.3}{6}$ $\frac{5.7}{13}$ $\frac{3.8}{50}$

$\frac{5.1}{50}$ $\frac{5.8}{27}$ $\frac{5.3}{13}$ $\frac{5.1}{7}$ $\frac{5.3}{8}$ $\frac{5.4}{8}$ $\frac{4.5}{50}$

Sta.	+	π	-	Elev.
		956.62		
11				50.8
+50				49.6
12				48.1
T.P.	5.96	953.44	9.14	947.48
+50				47.0
13				46.3
+50				45.6
14				45.6
+50				46.2
15				47.8
+50				48.2
16				48.4
+60				48.8

27.

28.

29.

$$\frac{20}{50} \quad \frac{68}{18} \quad \frac{70}{13} \quad \frac{59}{7} \quad \frac{58}{5} \quad \frac{54}{3} \quad \frac{58}{13} \quad \frac{52}{30} \quad \frac{53}{50}$$

$$\frac{72}{50} \quad \frac{78}{13} \quad \frac{72}{7} \quad \frac{70}{3} \quad \frac{67}{14} \quad \frac{70}{50} \quad \frac{64}{50}$$

$$\frac{74}{50} \quad \frac{88}{11} \quad \frac{85}{6} \quad \frac{85}{7} \quad \frac{85}{7} \quad \frac{81}{50}$$

$$\frac{44}{50} \quad \frac{53}{30} \quad \frac{62}{7} \quad \frac{64}{5} \quad \frac{63}{5} \quad \frac{66}{11} \quad \frac{62}{50}$$

$$\frac{51}{50} \quad \frac{69}{8} \quad \frac{71}{6} \quad \frac{70}{6} \quad \frac{81}{50}$$

$$\frac{60}{50} \quad \frac{68}{24} \quad \frac{76}{9} \quad \frac{78}{12} \quad \frac{88}{12} \quad \frac{87}{50}$$

$$\frac{58}{50} \quad \frac{70}{18} \quad \frac{78}{5} \quad \frac{78}{5} \quad \frac{91}{13} \quad \frac{110}{50}$$

$$\frac{45}{50} \quad \frac{60}{20} \quad \frac{68}{7} \quad \frac{71}{5} \quad \frac{72}{15} \quad \frac{87}{15} \quad \frac{110}{50}$$

$$\frac{26}{50} \quad \frac{55}{14} \quad \frac{56}{3} \quad \frac{55}{3} \quad \frac{71}{14} \quad \frac{105}{50}$$

$$\frac{14}{50} \quad \frac{25}{34} \quad \frac{46}{11} \quad \frac{52}{7} \quad \frac{51}{7} \quad \frac{68}{13} \quad \frac{98}{50}$$

$$\frac{15}{50} \quad \frac{46}{13} \quad \frac{50}{3} \quad \frac{50}{3} \quad \frac{64}{10} \quad \frac{92}{50}$$

$$\frac{23}{50} \quad \frac{44}{16} \quad \frac{45}{8} \quad \frac{42}{5} \quad \frac{48}{5} \quad \frac{62}{17} \quad \frac{71}{50}$$

Sta.	+	π	-	Elev.
		953.44		
17+00				49.9
+50				51.4
18				52.7
T.P.	3.1✓	952.85	0.71	952.73
+50				52.1
19				51.0
+50				50.6
20				49.2
+50				45.9
T.P.	2.30	948.3✓	10.83	945.0✓
21				43.7
+50				43.1
22				42.7
+50				42.3

Lt.

E

Rt.

$$\frac{2.3}{50} \quad \frac{3.8}{7} \quad \frac{25}{7} \quad \frac{37}{7} \quad \frac{43}{13} \quad \frac{41}{26} \quad \frac{42}{50}$$

$$\frac{0.8}{50} \quad \frac{2.3}{11} \quad \frac{20}{7} \quad \frac{1.8}{4} \quad \frac{2.3}{13} \quad \frac{1.8}{24} \quad \frac{1.4}{50}$$

$$\frac{0.4}{50} \quad \frac{11}{13} \quad \frac{0.8}{8} \quad \frac{0.7}{3} \quad \frac{0.5}{3} \quad \frac{0.4}{22} \quad \frac{0.0}{50}$$

Top Hub 18+00.67

$$\frac{40}{50} \quad \frac{49}{25} \quad \frac{47}{15} \quad \frac{40}{9} \quad \frac{38}{7} \quad \frac{36}{3} \quad \frac{40}{10} \quad \frac{36}{17} \quad \frac{33}{50}$$

$$\frac{46}{50} \quad \frac{5.8}{29} \quad \frac{5.9}{14} \quad \frac{4.9}{7} \quad \frac{4.9}{7} \quad \frac{4.9}{5} \quad \frac{5.5}{10} \quad \frac{5.2}{14} \quad \frac{5.2}{50}$$

$$\frac{4.9}{50} \quad \frac{5.8}{24} \quad \frac{6.1}{14} \quad \frac{5.3}{8} \quad \frac{5.3}{7} \quad \frac{5.3}{7} \quad \frac{5.6}{10} \quad \frac{6.5}{50}$$

$$\frac{5.1}{50} \quad \frac{7.1}{17} \quad \frac{6.4}{8} \quad \frac{6.7}{7} \quad \frac{6.8}{7} \quad \frac{6.8}{17} \quad \frac{9.0}{50}$$

$$\frac{7.6}{50} \quad \frac{7.6}{16} \quad \frac{9.5}{11} \quad \frac{9.9}{3} \quad \frac{10.0}{7} \quad \frac{10.2}{7} \quad \frac{10.9}{11} \quad \frac{11.9}{50}$$

$$\frac{16}{50} \quad \frac{3.7}{7} \quad \frac{4.6}{7} \quad \frac{4.4}{3} \quad \frac{4.3}{7} \quad \frac{4.8}{14} \quad \frac{6.1}{50}$$

$$\frac{2.3}{50} \quad \frac{4.0}{33} \quad \frac{5.1}{6} \quad \frac{5.2}{7} \quad \frac{5.2}{7} \quad \frac{6.0}{19} \quad \frac{7.0}{50}$$

$$\frac{36}{50} \quad \frac{5.0}{24} \quad \frac{5.1}{12} \quad \frac{5.6}{7} \quad \frac{5.8}{8} \quad \frac{6.2}{10} \quad \frac{6.2}{14} \quad \frac{6.4}{16} \quad \frac{8.0}{50}$$

$$\frac{1}{50} \quad \frac{5.8}{43} \quad \frac{5.6}{15} \quad \frac{5.1}{14} \quad \frac{5.9}{7} \quad \frac{6.0}{7} \quad \frac{6.0}{8} \quad \frac{6.8}{14} \quad \frac{7.3}{13} \quad \frac{7.3}{14} \quad \frac{6.1}{16} \quad \frac{6.4}{50}$$

Sta.	+	π	-	Elev.
23		948.32		40.9
+50				40.4
	15" C.M. Culvert			
24				40.2
	Floor Dwelling Rt.			
+50				40.4
T.P.	7.64	948.15	7.81	940.51
25				41.1
+25				41.7
+50				42.1
26				42.9
+09				43.1
+19				43.0
	12" C.M. Culvert			
+23				43.3
+30				43.2
+44				43.4
B.M.			6.11	944.04

Lt. E Rt.

$\frac{6.9}{50}$ $\frac{7.6}{34}$ $\frac{6.9}{14}$ $\frac{7.97.9}{1311}$ $\frac{7.4}{9}$ $\frac{7.4}{7}$ $\frac{7.7}{17}$ $\frac{8.2}{13}$ $\frac{8.2}{14}$ $\frac{7.2}{15}$ $\frac{7.9}{50}$

$\frac{7.5}{50}$ $\frac{8.5}{13}$ $\frac{8.9}{11}$ $\frac{8.3}{7}$ $\frac{7.9}{7}$ $\frac{8.2}{9}$ $\frac{8.4}{14}$ $\frac{8.8}{15}$ $\frac{9.6}{50}$

39.02 $\frac{1 \text{ hr.}}{7.3}$ $\frac{1 \text{ hr.}}{7.6}$ 38.72

$\frac{8.3}{50}$ $\frac{8.7}{15}$ $\frac{5.3}{13}$ $\frac{9.3}{14}$ $\frac{9.1}{10}$ $\frac{8.1}{5}$ $\frac{8.1}{7}$ $\frac{8.4}{10}$ $\frac{9.4}{14}$ $\frac{9.4}{15}$ $\frac{9.0}{16}$ $\frac{9.3}{50}$

8.8 39.52

$\frac{8.1}{50}$ $\frac{8.8}{15}$ $\frac{5.4}{13}$ $\frac{5.4}{10}$ $\frac{7.9}{4}$ $\frac{7.9}{7}$ $\frac{8.2}{10}$ $\frac{8.5}{15}$ $\frac{8.5}{16}$ $\frac{8.9}{18}$ $\frac{9.1}{50}$

$\frac{6.2}{50}$ $\frac{7.7}{15}$ $\frac{8.2}{13}$ $\frac{8.2}{10}$ $\frac{7.2}{5}$ $\frac{7.1}{7}$ $\frac{7.3}{9}$ $\frac{8.4}{13}$ $\frac{8.3}{17}$ $\frac{8.7}{50}$

$\frac{4.8}{50}$ $\frac{6.1}{15}$ $\frac{7.2}{14}$ $\frac{7.2}{10}$ $\frac{6.5}{7}$ $\frac{6.5}{7}$ $\frac{6.6}{8}$ $\frac{7.7}{13}$ $\frac{7.7}{15}$ $\frac{6.9}{17}$ $\frac{8.0}{50}$

$\frac{3.4}{50}$ $\frac{3.8}{15}$ $\frac{6.2}{11}$ $\frac{6.1}{7}$ $\frac{6.2}{9}$ $\frac{6.6}{14}$ $\frac{5.0}{17}$ $\frac{5.8}{21}$ $\frac{6.2}{50}$

$\frac{3.9}{50}$ $\frac{3.3}{16}$ $\frac{4.8}{13}$ $\frac{5.3}{9}$ $\frac{5.3}{7}$ $\frac{5.5}{11}$ $\frac{5.8}{15}$ $\frac{5.2}{19}$ $\frac{3.8}{23}$ $\frac{4.6}{50}$

$\frac{3.3}{50}$ $\frac{3.0}{17}$ $\frac{5.0}{14}$ $\frac{5.1}{7}$ $\frac{5.5}{14}$ $\frac{5.7}{16}$ $\frac{4.9}{19}$ $\frac{3.6}{23}$ $\frac{3.6}{50}$

$\frac{7.8}{50}$ $\frac{7.9}{26}$ $\frac{8.0}{20}$ $\frac{5.4}{14}$ $\frac{5.2}{7}$ $\frac{5.3}{18}$ $\frac{7.7}{21}$ $\frac{8.0}{50}$

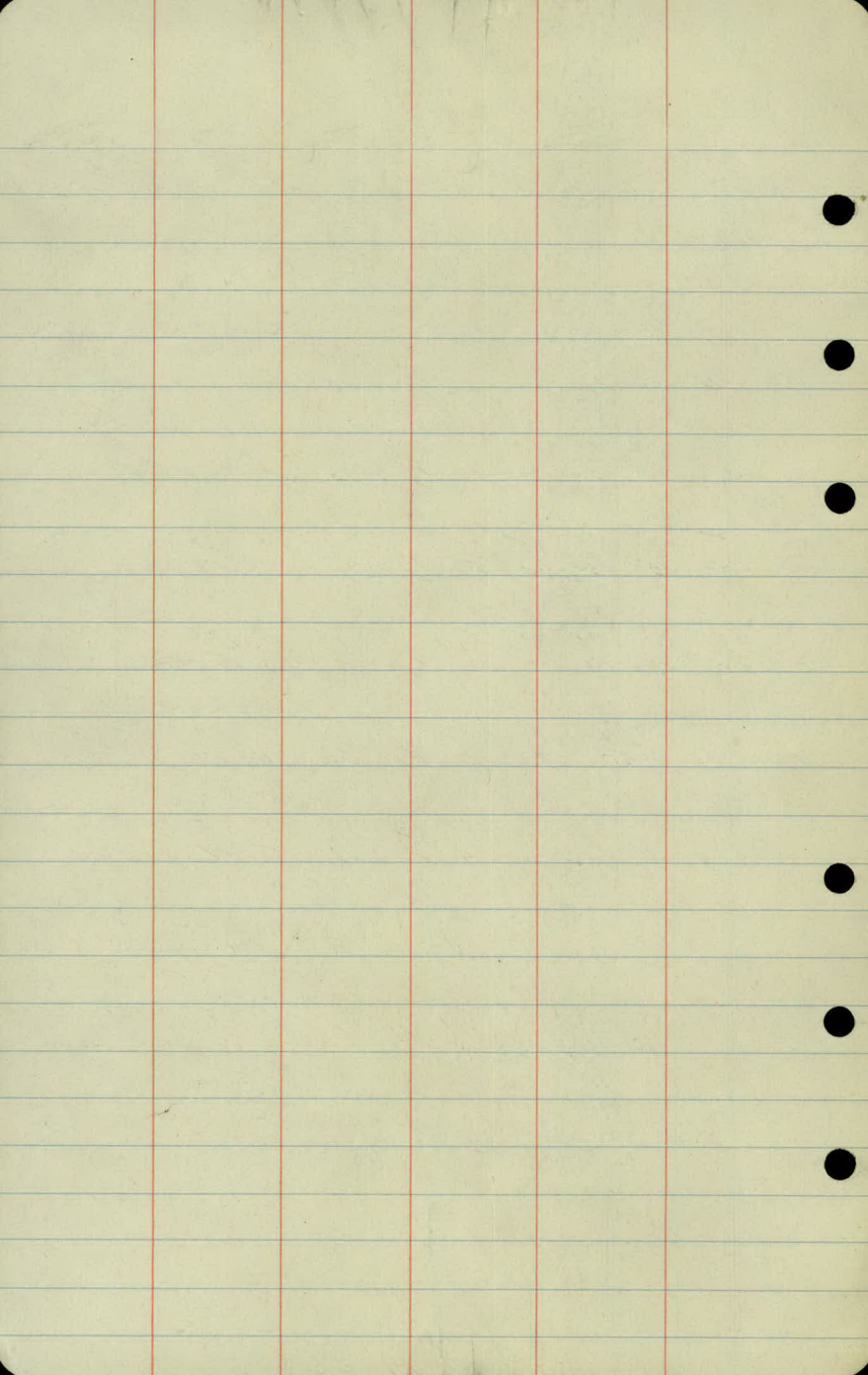
39.75 $\frac{1 \text{ hr.}}{8.4}$ $\frac{1 \text{ hr.}}{8.0}$ 40.15

$\frac{8.0}{50}$ $\frac{7.8}{36}$ $\frac{7.8}{23}$ $\frac{5.0}{16}$ $\frac{4.9}{21}$ $\frac{5.6}{21}$ $\frac{7.6}{25}$ $\frac{7.8}{50}$

$\frac{4.4}{50}$ $\frac{4.9}{21}$ $\frac{5.0}{7}$ $\frac{5.4}{50}$

$\frac{4.1}{40}$ $\frac{4.8}{7}$ $\frac{5.5}{50}$

Spike in Geo Pole 50' Pt 26 + 75



Elm St.

Slope stakes from
Willow Ave. to White Bear Ave.

11/28

26' Crown

2 to 1 Slopes

21 to ditch slope

2' Ditch

$5\frac{1}{2}$ + π - Grade

B.M. 0.87 951.30 950.43

0+00 42.2

+25 42.4

+50 42.6

1 43.0

+50 43.4

2 43.8

+50 44.2

3 44.6

Lt.

E

Rt

2

Slope of fence 160' Lt 572 1450

$$\begin{array}{r} 8.1 \\ 11.1 \end{array}$$

$$\begin{array}{r} 24 \\ DC40 \\ 29.0 \end{array}$$

$$\begin{array}{r} 7.9 \\ 1.2 \end{array}$$

$$\begin{array}{r} 8.6 \\ DC25 \\ 26.0 \end{array}$$

$$\begin{array}{r} 8.9 \\ 10.9 \end{array}$$

$$\begin{array}{r} 96 \\ DC13 \\ 23.6 \end{array}$$

$$\begin{array}{r} 9.7 \\ 10.8 \end{array}$$

$$\begin{array}{r} 10.1 \\ DC0.8 \\ 22.6 \end{array}$$

$$8.7$$

$$\begin{array}{r} 123 \\ F36 \\ 20.2 \end{array}$$

$$\begin{array}{r} 11.7 \\ F3.0 \end{array}$$

$$\begin{array}{r} 11.5 \\ F3.2 \\ 19.4 \end{array}$$

$$8.3$$

$$\begin{array}{r} 15.1 \\ DC6.8 \\ 26.6 \end{array}$$

$$\begin{array}{r} 16.0 \\ F11.3 \\ 1.7 \end{array}$$

$$\begin{array}{r} 12.8 \\ F8.5 \\ 32 \end{array}$$

$$7.9$$

$$\begin{array}{r} 16.0 \\ F8.1 \\ 29.2 \end{array}$$

$$\begin{array}{r} 17.2 \\ 9.3 \end{array}$$

$$\begin{array}{r} 19.0 \\ F11.1 \\ 33 \end{array}$$

$$7.5$$

$$\begin{array}{r} 14.9 \\ F7.4 \\ 27.8 \end{array}$$

$$\begin{array}{r} 16.6 \\ 9.1 \\ F. \end{array}$$

$$\begin{array}{r} 18.5 \\ F11.0 \\ 33 \end{array}$$

$$7.1$$

$$\begin{array}{r} 13.9 \\ F6.8 \\ 26.6 \end{array}$$

$$\begin{array}{r} 15.4 \\ F8.3 \end{array}$$

$$\begin{array}{r} 16.8 \\ F9.7 \\ 32. \end{array}$$

$$6.7$$

$$\begin{array}{r} 11.8 \\ F5.1 \\ 23.2 \end{array}$$

$$\begin{array}{r} 12.8 \\ 6.1 \\ F. \end{array}$$

$$\begin{array}{r} 14.7 \\ F8.0 \\ 29.0 \end{array}$$

Sta + π - Grade

951.30

3+50 45.0

4 45.4

+50 45.8

5 46.2

+50 46.6

6 47.0

T.P. 5.57 956.44 0.43 950.87

+50 47.4

7 47.8

LT.

E

RT

63

$$\begin{array}{r} 10.6 \\ F.4.3 \\ \hline 21.6 \end{array}$$

$$\begin{array}{r} 10.7 \\ F.4.4 \\ \hline \end{array}$$

$$\begin{array}{r} 13.0 \\ F.6.7 \\ \hline 26.4 \end{array}$$

5.9
7.9

$$\begin{array}{r} 7.9 \\ DC.0.0 \\ \hline 18.1 \end{array}$$

$$\begin{array}{r} 7.8 \\ F.1.9 \\ \hline \end{array}$$

$$\begin{array}{r} 7.5 \\ DC.0.4 \\ \hline 21.8 \end{array}$$

5.17
7.5

$$\begin{array}{r} 5.8 \\ DC.1.7 \\ \hline 24.4 \end{array}$$

$$\begin{array}{r} 5.1 \\ C.0.4 \\ \hline \end{array}$$

$$\begin{array}{r} 4.1 \\ DC.3.4 \\ \hline 27.8 \end{array}$$

5.1
7.1

$$\begin{array}{r} 2.3 \\ DC.4.8 \\ \hline 30.6 \end{array}$$

$$\begin{array}{r} 3.3 \\ C.1.8 \\ \hline \end{array}$$

$$\begin{array}{r} 1.7 \\ DC.5.4 \\ \hline 31.8 \end{array}$$

4.2
6.7

$$\begin{array}{r} 0.7 \\ DC.6.0 \\ \hline 33.0 \end{array}$$

$$\begin{array}{r} 1.5 \\ C.3.2 \\ \hline \end{array}$$

$$\begin{array}{r} 1.5 \\ DC.5.2 \\ \hline 31.4 \end{array}$$

4.3
6.3

$$\begin{array}{r} 10.3 \\ DC.6.6 \\ \hline 33.0 \end{array}$$

$$\begin{array}{r} 0.4 \\ C.3.9 \\ \hline \end{array}$$

$$\begin{array}{r} 0.3 \\ DC.6.0 \\ \hline 33.0 \end{array}$$

9.0
11.0

$$\begin{array}{r} 5.6 \\ DC.5.4 \\ \hline 31.8 \end{array}$$

$$\begin{array}{r} 3.4 \\ C.3.6 \\ \hline \end{array}$$

$$\begin{array}{r} 6.4 \\ DC.4.6 \\ \hline 30.2 \end{array}$$

8.6
10.6

$$\begin{array}{r} 5.3 \\ DC.1.3 \\ \hline 31.6 \end{array}$$

$$\begin{array}{r} 5.1 \\ C.3.1 \\ \hline \end{array}$$

$$\begin{array}{r} 6.3 \\ DC.4.3 \\ \hline 29.6 \end{array}$$

Sta. + π - Grade.

956.44

7+50

48.7

8

48.6

+50

48.8

9

49.0

+50

49.7

10

49.7

+50

49.7

11

49.7

B.M.

384

956.76

4.07

952.47

4.

E

4.

$$\begin{array}{r} 8.2 \\ 10.2 \end{array}$$

$$\begin{array}{r} 4.2 \\ DC.60 \\ \hline 33.0 \end{array}$$

$$\begin{array}{r} 5.2 \\ 13.0 \end{array}$$

$$\begin{array}{r} 6.6 \\ DC.36 \\ \hline 28.2 \end{array}$$

$$\begin{array}{r} 7.8 \\ 9.8 \end{array}$$

$$\begin{array}{r} 4.5 \\ DC.53 \\ \hline 31.6 \end{array}$$

$$\begin{array}{r} 4.7 \\ C.31 \end{array}$$

$$\begin{array}{r} 5.3 \\ DC.45 \\ \hline 30.0 \end{array}$$

$$\begin{array}{r} 7.6 \\ 9.6 \end{array}$$

$$\begin{array}{r} 5.4 \\ DC.42 \\ \hline 29.4 \end{array}$$

$$\begin{array}{r} 5.3 \\ C.23 \end{array}$$

$$\begin{array}{r} 5.2 \\ DC.44 \\ \hline 29.8 \end{array}$$

$$\begin{array}{r} 7.4 \\ 9.4 \end{array}$$

$$\begin{array}{r} 6.0 \\ DC.34 \\ \hline 27.8 \end{array}$$

$$\begin{array}{r} 5.2 \\ C.22 \end{array}$$

$$\begin{array}{r} 4.4 \\ DC.50 \\ \hline 31.0 \end{array}$$

$$\begin{array}{r} 7.2 \\ 9.2 \end{array}$$

$$\begin{array}{r} 5.1 \\ DC.41 \\ \hline 29.2 \end{array}$$

$$\begin{array}{r} 5.1 \\ C.21 \end{array}$$

$$\begin{array}{r} 3.9 \\ DC.53 \\ \hline 31.6 \end{array}$$

$$\begin{array}{r} 7.2 \\ 9.2 \end{array}$$

$$\begin{array}{r} 5.3 \\ DC.39 \\ \hline 28.8 \end{array}$$

$$\begin{array}{r} 5.0 \\ C.22 \end{array}$$

$$\begin{array}{r} 4.8 \\ DC.44 \\ \hline 29.8 \end{array}$$

$$\begin{array}{r} 7.2 \\ 9.2 \end{array}$$

$$\begin{array}{r} 4.3 \\ DC.33 \\ \hline 27.6 \end{array}$$

$$\begin{array}{r} 5.0 \\ C.22 \end{array}$$

$$\begin{array}{r} 4.8 \\ DC.44 \\ \hline 29.8 \end{array}$$

$$\begin{array}{r} 7.2 \\ 9.2 \end{array}$$

$$\begin{array}{r} 6.8 \\ DC.24 \\ \hline 21.8 \end{array}$$

$$\begin{array}{r} 5.1 \\ C.17 \end{array}$$

$$\begin{array}{r} 5.0 \\ DC.42 \\ \hline 29.4 \end{array}$$

Spire in Fence post 100' Lt. Sta. 1100

Sta. + π - Grade

956.26

11+50

49.1

12

49.1

+50

49.0

13

49.0

+50

48.9

14

48.8

+50

48.8

15

48.7

Lt.

E

Rt.

5

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

$$\begin{array}{r} 74 \\ DC1.8 \\ \hline 246 \end{array}$$

$$\begin{array}{r} 66 \\ C0.6 \\ \hline \end{array}$$

$$\begin{array}{r} 58 \\ DC3.4 \\ \hline 27.8 \end{array}$$

$$\begin{array}{r} 7.2 \\ 9.4 \end{array}$$

$$\begin{array}{r} 80 \\ DC1.2 \\ \hline 23.4 \end{array}$$

$$\begin{array}{r} 82 \\ F1.0 \\ \hline \end{array}$$

$$\begin{array}{r} 80 \\ DC1.2 \\ \hline 23.4 \end{array}$$

$$\begin{array}{r} 7.3 \\ 9.3 \end{array}$$

$$\begin{array}{r} 86 \\ DC0.7 \\ \hline 22.4 \end{array}$$

$$\begin{array}{r} 92 \\ F1.9 \\ \hline \end{array}$$

$$\begin{array}{r} 93 \\ F2.0 \\ \hline 17.0 \end{array}$$

$$\begin{array}{r} 7.3 \\ 9.3 \end{array}$$

$$\begin{array}{r} 93 \\ F2.0 \\ \hline 17.0 \end{array}$$

$$\begin{array}{r} 99 \\ F2.6 \\ \hline \end{array}$$

$$\begin{array}{r} 105 \\ F3.2 \\ \hline 19.4 \end{array}$$

$$\begin{array}{r} 7.4 \\ 9.4 \end{array}$$

$$\begin{array}{r} 99 \\ F2.1 \\ \hline 18.0 \end{array}$$

$$\begin{array}{r} 107 \\ F3.3 \\ \hline \end{array}$$

$$\begin{array}{r} 120 \\ F4.6 \\ \hline 22.2 \end{array}$$

$$7.5$$

$$\begin{array}{r} 89 \\ F2.4 \\ \hline 17.8 \end{array}$$

$$\begin{array}{r} 106 \\ F3.1 \\ \hline \end{array}$$

$$\begin{array}{r} 128 \\ F5.3 \\ \hline 23.6 \end{array}$$

$$\begin{array}{r} 7.5 \\ 9.5 \end{array}$$

$$\begin{array}{r} 88 \\ DC0.7 \\ \hline 22.4 \end{array}$$

$$\begin{array}{r} 100 \\ F2.5 \\ \hline \end{array}$$

$$\begin{array}{r} 121 \\ F4.6 \\ \hline 22.2 \end{array}$$

$$\begin{array}{r} 7.6 \\ 9.6 \end{array}$$

$$\begin{array}{r} 69 \\ DC2.7 \\ \hline 26.4 \end{array}$$

$$\begin{array}{r} 86 \\ F1.0 \\ \hline \end{array}$$

$$\begin{array}{r} 105 \\ F2.9 \\ \hline 18.8 \end{array}$$

Sta. + π - Grade
716.26

15+50

48.7

16

48.6

+50

48.6

17

48.5

+50

48.3

18

48.1

+50

47.8

19

47.4

Lt.

E

Rt

61

$$\begin{array}{r} 76 \\ 96 \end{array}$$

$$\begin{array}{r} 58 \\ DC.38 \\ \hline 28.6 \end{array}$$

$$\begin{array}{r} 81 \\ F.O.5 \end{array}$$

$$\begin{array}{r} 120 \\ F24 \\ \hline 178 \end{array}$$

$$\begin{array}{r} 77 \\ 97 \end{array}$$

$$\begin{array}{r} 60 \\ DC.37 \\ \hline 28.4 \end{array}$$

$$\begin{array}{r} 79 \\ F.O.2 \end{array}$$

$$\begin{array}{r} 101 \\ F24 \\ \hline 178 \end{array}$$

$$\begin{array}{r} 77 \\ 97 \end{array}$$

$$\begin{array}{r} 65 \\ DC.37 \\ \hline 27.4 \end{array}$$

$$\begin{array}{r} 74 \\ C.O.3 \end{array}$$

$$\begin{array}{r} 93 \\ PCO4 \\ \hline 218 \end{array}$$

$$\begin{array}{r} 78 \\ 98 \end{array}$$

$$\begin{array}{r} 62 \\ DC.36 \\ \hline 28.2 \end{array}$$

$$\begin{array}{r} 64 \\ C.O.8 \\ \hline 21.4 \end{array}$$

$$\begin{array}{r} 69 \\ DC.29 \\ \hline 26.8 \end{array}$$

$$\begin{array}{r} 8.0 \\ 10.0 \end{array}$$

$$\begin{array}{r} 4.5 \\ DC.15 \\ \hline 32.9 \end{array}$$

$$\begin{array}{r} 48 \\ C.3.2 \end{array}$$

$$\begin{array}{r} 4.5 \\ DC.15 \\ \hline 32.0 \end{array}$$

$$\begin{array}{r} 8.2 \\ 10.2 \end{array}$$

$$\begin{array}{r} 34 \\ DC.6.8 \\ \hline 33 \end{array}$$

$$\begin{array}{r} 36 \\ C.4.6 \end{array}$$

$$\begin{array}{r} 31 \\ DC.7.1 \\ \hline 33 \end{array}$$

$$\begin{array}{r} 8.5 \\ 10.5 \end{array}$$

$$\begin{array}{r} 4.9 \\ DC.1.6 \\ \hline 32.2 \end{array}$$

$$\begin{array}{r} 41 \\ C.4.4 \end{array}$$

$$\begin{array}{r} 3.9 \\ DC.6.6 \\ \hline 33 \end{array}$$

$$\begin{array}{r} 8.9 \\ 10.9 \end{array}$$

$$\begin{array}{r} 5.9 \\ DC.5.0 \\ \hline 31.0 \end{array}$$

$$\begin{array}{r} 5.3 \\ C.3.6 \end{array}$$

$$\begin{array}{r} 5.6 \\ DC.5.3 \\ \hline 31.6 \end{array}$$

Sta.	+	K	-	Grade
		956.26		
19+50				46.9
T.P.	2.27	957.40	6.13	950.13
T.P.	3.27	957.18	3.44	948.96
20				46.4
+50				45.9
21				45.4
+50				44.9
22				44.4
+50				43.9
T.P.	6.65	947.41	11.47	940.76
23				43.4

4.

E

4

$$\begin{array}{r} 9.4 \\ 11.4 \end{array}$$

$$\begin{array}{r} 61 \\ DC53 \\ \hline 31.6 \end{array}$$

$$\begin{array}{r} 5.7 \\ C3.7 \end{array}$$

$$\begin{array}{r} 61 \\ DC53 \\ \hline 31.6 \end{array}$$

$$\begin{array}{r} 2.8 \\ 7.8 \end{array}$$

$$\begin{array}{r} 25 \\ DC53 \\ \hline 31.6 \end{array}$$

$$\begin{array}{r} 30 \\ C2.8 \end{array}$$

$$\begin{array}{r} 38 \\ DC40 \\ \hline 29.0 \end{array}$$

$$\begin{array}{r} 6.3 \\ 8.3 \end{array}$$

$$\begin{array}{r} 50 \\ DC33 \\ \hline 27.6 \end{array}$$

$$\begin{array}{r} 63 \\ C.00 \end{array}$$

$$\begin{array}{r} 26 \\ DC07 \\ \hline 22.4 \end{array}$$

$$\begin{array}{r} 6.8 \\ 8.8 \end{array}$$

$$\begin{array}{r} 64 \\ DC22 \\ \hline 31.4 \end{array}$$

$$\begin{array}{r} 84 \\ F.1.6 \end{array}$$

$$\begin{array}{r} 50 \\ F22 \\ \hline 17.4 \end{array}$$

$$\begin{array}{r} 7.3 \\ 9.3 \end{array}$$

$$\begin{array}{r} 81 \\ DC134 \\ \hline 23.4 \end{array}$$

$$\begin{array}{r} 91 \\ F.1.8 \end{array}$$

$$\begin{array}{r} 98 \\ F25 \\ \hline 18 \end{array}$$

$$\begin{array}{r} 7.8 \\ 9.8 \end{array}$$

$$\begin{array}{r} 88 \\ DC10 \\ \hline 23.8 \end{array}$$

$$\begin{array}{r} 93 \\ F.1.5 \end{array}$$

$$\begin{array}{r} 102 \\ F24 \\ \hline 17.8 \end{array}$$

$$\begin{array}{r} 8.3 \\ 10.3 \end{array}$$

$$\begin{array}{r} 94 \\ DC09 \\ \hline 22. \end{array}$$

$$\begin{array}{r} 97 \\ F.1.4 \end{array}$$

$$\begin{array}{r} 97 \\ DC06 \\ \hline 22.1 \end{array}$$

$$\begin{array}{r} 4.0 \\ 6.0 \end{array}$$

$$\begin{array}{r} 60 \\ F21 \\ \hline 17 \end{array}$$

$$\begin{array}{r} 66 \\ F.1.6 \end{array}$$

$$\begin{array}{r} 62 \\ F22 \\ \hline 17.4 \end{array}$$

Sta. + π - Grade

947.41

23+50

43.0

24

42.7

+50

42.6

25

42.6

+25

42.7

+50

42.7

26

42.8

+09

42.8

Lt.

E

Et.

8

4.4
6.4
$$\begin{array}{r} 74 \\ F.30 \\ \hline 19.0 \end{array}$$

$$\begin{array}{r} 6.9 \\ F.2.5 \\ \hline \end{array}$$

$$\begin{array}{r} 8.3 \\ F.29 \\ \hline 20.8 \end{array}$$
4.7
6.7
$$\begin{array}{r} 8.0 \\ F.33 \\ \hline 19.6 \end{array}$$

$$\begin{array}{r} 7.1 \\ F.24 \\ \hline \end{array}$$

$$\begin{array}{r} 8.1 \\ F.24 \\ \hline 19.8 \end{array}$$
4.8
6.8
$$\begin{array}{r} 8.0 \\ F.32 \\ \hline 19.4 \end{array}$$

$$\begin{array}{r} 7.0 \\ F.22 \\ \hline \end{array}$$

$$\begin{array}{r} 8.2 \\ F.24 \\ \hline 19.8 \end{array}$$
4.8
6.8
$$\begin{array}{r} 6.9 \\ F.21 \\ \hline 17.2 \end{array}$$

$$\begin{array}{r} 6.3 \\ F.1.5 \\ \hline \end{array}$$

$$\begin{array}{r} 7.5 \\ F.27 \\ \hline 18.4 \end{array}$$
4.7
6.7
$$\begin{array}{r} 8.1 \\ D.C.1.6 \\ \hline 24.2 \end{array}$$

$$\begin{array}{r} 5.8 \\ F.1.1 \\ \hline \end{array}$$

$$\begin{array}{r} 6.6 \\ D.C.0.1 \\ \hline 21.2 \end{array}$$
4.7
6.7
$$\begin{array}{r} 3.3 \\ D.C.3.4 \\ \hline 27.8 \end{array}$$

$$\begin{array}{r} 5.3 \\ F.0.6 \\ \hline \end{array}$$

$$\begin{array}{r} 4.6 \\ D.C.2.1 \\ \hline 25.2 \end{array}$$
4.6
6.6
$$\begin{array}{r} 2.8 \\ D.C.3.8 \\ \hline 28.6 \end{array}$$

$$\begin{array}{r} 4.5 \\ C.0.1 \\ \hline \end{array}$$

$$\begin{array}{r} 3.0 \\ D.C.3.6 \\ \hline 28.6 \end{array}$$
4.6
6.6
$$\begin{array}{r} 2.0 \\ P.4.6 \\ \hline 30.2 \end{array}$$

$$\begin{array}{r} 4.3 \\ C.0.3 \\ \hline \end{array}$$

$$\begin{array}{r} 3.1 \\ D.C.3.5 \\ \hline 28.0 \end{array}$$

Sta.	+	π	-	Grade
		947.41		
26+19				42.8
+23				42.8
+30				42.8
+44				42.8
B.M.		5.37		942.04

Lt.

E

Rt.

9

4.6
6.6

X

4.6
6.6

X

4.6
6.6

X

$\frac{1209}{4}$

Hits .6 below pavement grade

↓
X

4.6
6.6

Spike in guy pole 50' Rt. 26+75

