

Bk. 42 Dr. 12 A

OFFICE OF COUNTY ENGINEER
RAMSEY CO. MINN.

Plan Survey

PLUM ST.

From Stillwater St. To Maryland St.

Road Acc't. No.

Date Filed 3-16-44

File.

Align
 Plum Str
 From Stillwater to Maryland

2-15-44

Index Pages

HAW
 AM
 L.G.

Plum St Align 1 to 3

Maryland " 3 to 5

Plum St Topog 5 to 9

Recd in office

Maryland " 9 to 13

2-21-44

Bench Levels 13 to 15

Plum St X Sect 15 to 20

Maryland " 20 to 25

Plum St
 Stillwater to Mercurius drawn up
 and grades figured for grading
 3/13/44
 WJB

Sta	Pt	Alt	ARB
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1518020	P.I.	Maryland St	
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0400	P.O.T.	Stillwater Rd. (S.T.H. 212)	
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Description

North Line Sec 25

Fe. Post
32.11'

29.69'

Fe Post

Boat Spk.

91°00'

Triple 12" B.F. 00

33.52'

24" Oak

15

69.45'

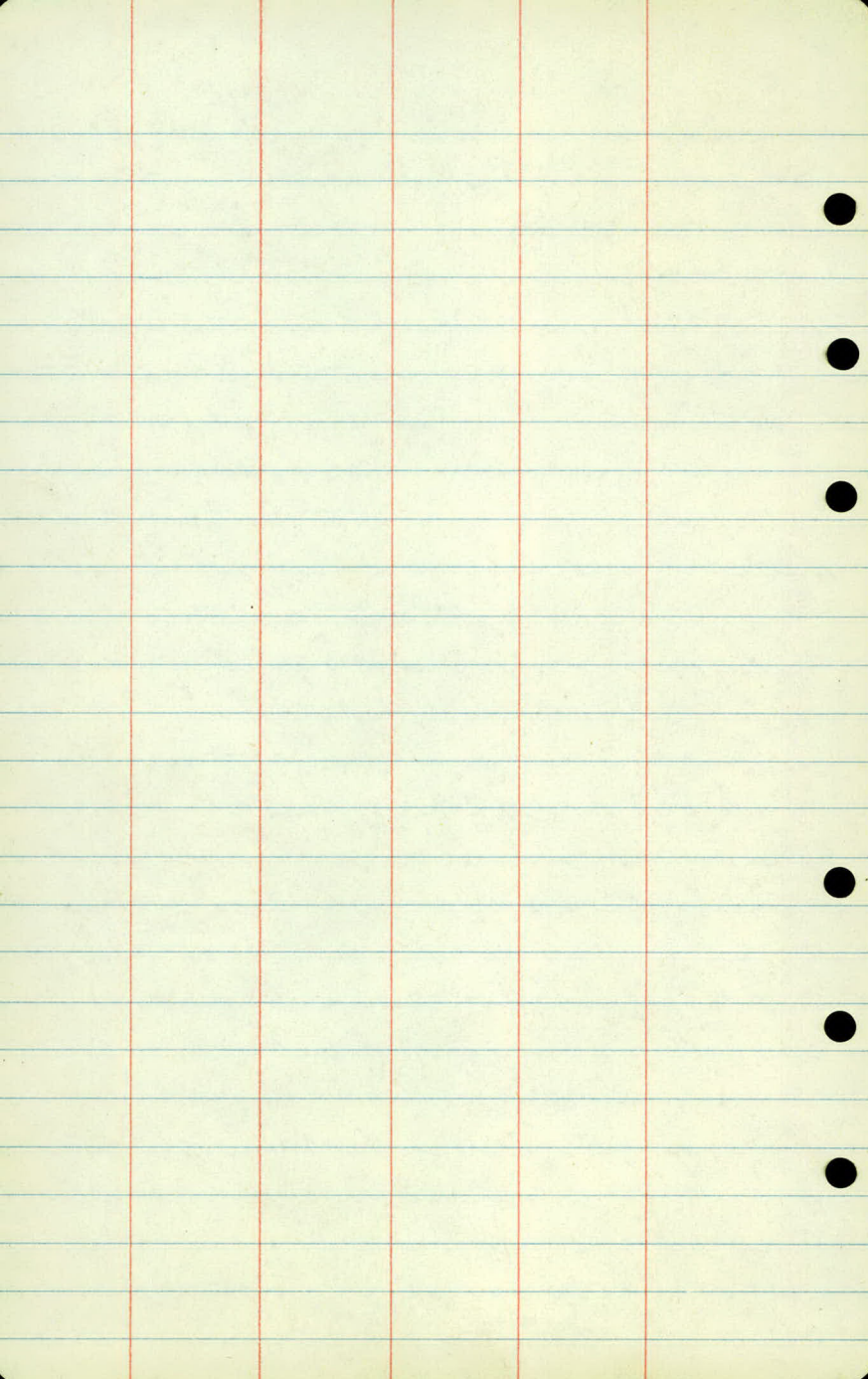
32.11'

P.T.P.

Nail

63°74'

63.94
WJB



Topography

PLUM Str

6

7425

5

7 + 25'

4

9' + 23'

3

9' + 23'

Note Drainage
From Stillwater Rd
Should be carried
East along Rd
Then East to Swp
& existing Ditch

2

9' + 24'

1

7 - 25'

at 75' Beg Ditch & End
36" Conc Pipe / 20'

0

+20 Edge Shoulder

Fe 1' 6
+45 PP+TP 33'

Fe 0.0 Swp 90' Ditch 120'

+50 Swp 70' Ditch 150'

Fe 1' Swp 150'

+88 PP+TP 32'

Cultivated

Platted
Cultivated

Fe 1'

+56 PP+TP 33'

+58 Fe Cor 00

+42 Row Pop 36'

+92 Fe Cor 00

+77 End Evergreens 9'

+75 Fe 73' Brush 30'

+49 Rge tie Orchard

+41 End Orchard 30'

+12 6" Apple 16'

Evergreens 7' Orchard 30'

+75 Beg Orchard 25'

+52 Beg Row 17 Evergreens 8'

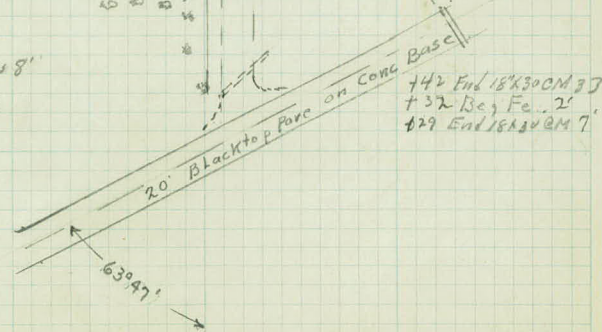
+33 Trip 6" B.E 0

Fe 1' Ditch 54'

+50 Ditch 79'

+17 PP+TP 33'

Fe 2' Ditch 110'



13

12

11

+ 80 End Trail

10

9

8' + 25'

8

7 + 23'

7

7 + 23'

6

7 + 25'

Fe. 00

7

+485 In 00

Fe 00

Cultivated



Fe 0.0
+855 W Cor No 66'
+85 PP 32'
+76 Ent

Fe 00 & Trail 16'

+33 Rd 50'
+26 Rge Tie Rd
+07 P.P. & TP 32'
+07 GP 2'

Fe 1'

Fe 1'

+34 P.P. & TP 32'

Fe 1'



+735 W Cor No 64'
+70 2" Pine 45'
+61 Ent
+46 X Hodge 34'

Fe 1'

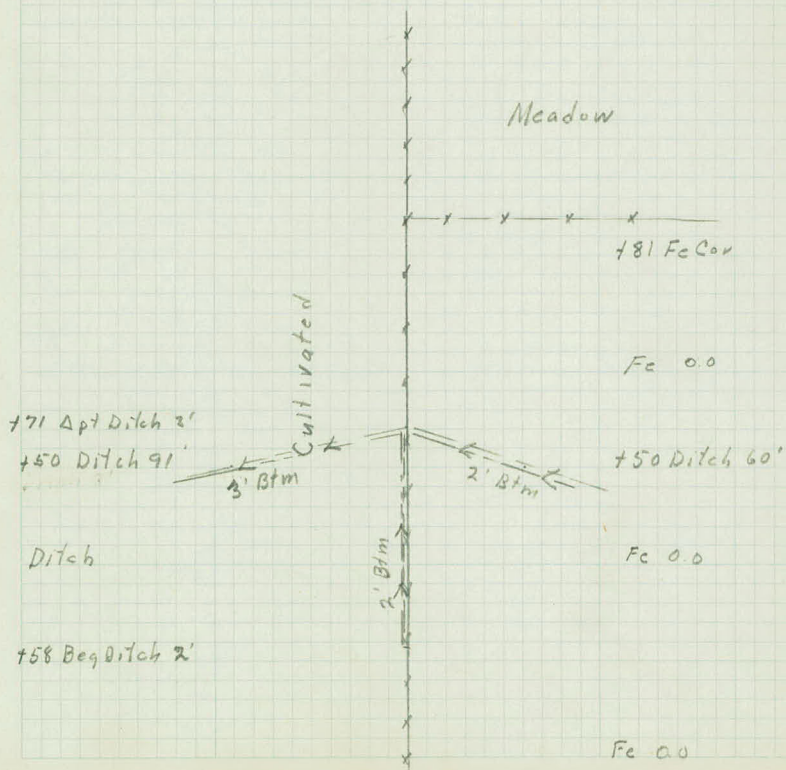
16

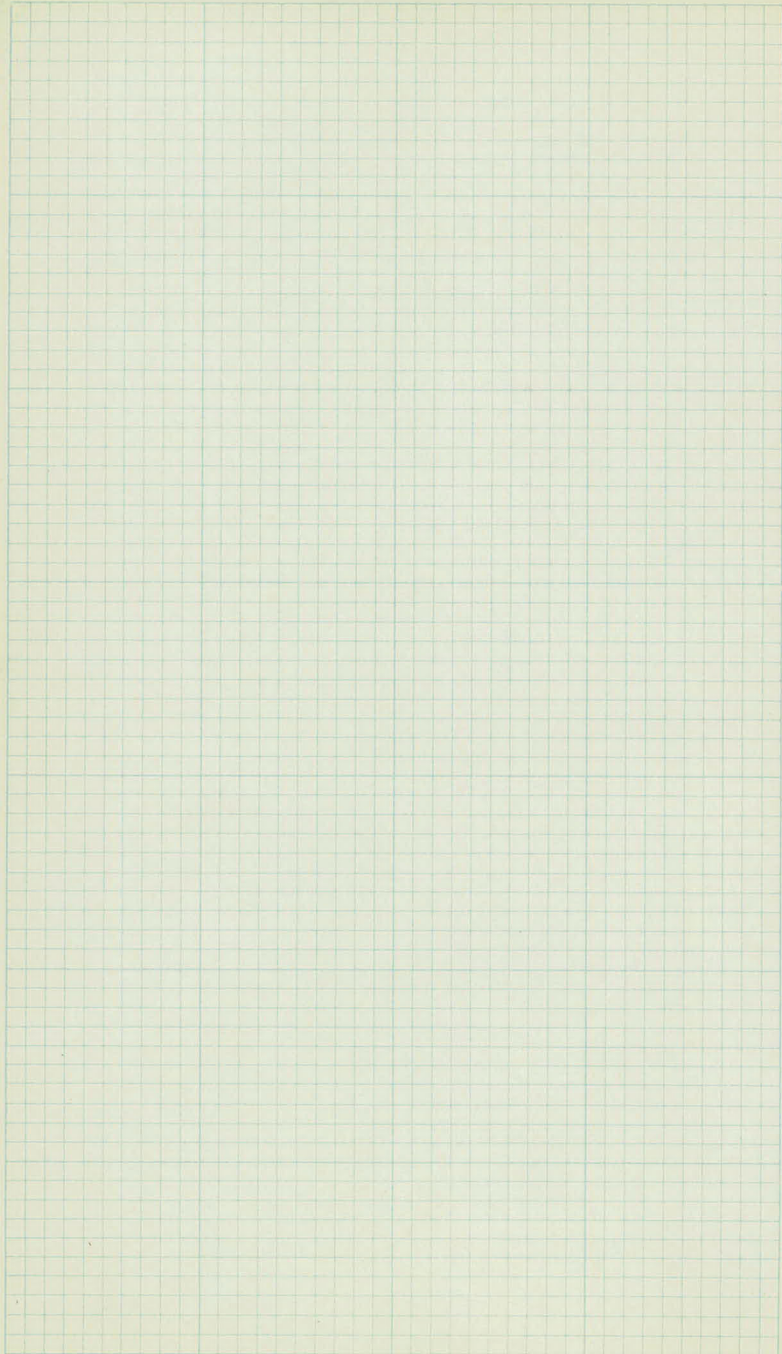
15

Note place
Approx 36' X Drain
Ditch takes Drainage
From SW p at Sta 4

14

13





X sections
Plum Stv

Sta	+	π	-	Elev
BM	2.66	1023.69		1021.03
0+00				21.0

+20				20.7
-----	--	--	--	------

+26				18.4
-----	--	--	--	------

+44				18.1
-----	--	--	--	------

+75				19.1
-----	--	--	--	------

1				16.9
---	--	--	--	------

T.P	2.50	1014.20	11.99	1011.70
+50				10.4

2				06.3
---	--	--	--	------

+50				02.6
-----	--	--	--	------

T.P	5.88	1007.65	12.43	1001.77
-----	------	---------	-------	---------

3+00				01.5
------	--	--	--	------

+50				00.7
-----	--	--	--	------

4				00.7
---	--	--	--	------

Lt

L

Rt

Top & Red 0100

$$\begin{array}{r} 2.9 \ 3.8 \ 4.2 \\ 50 \ 48 \ 42 \end{array} \quad \begin{array}{r} 5.3 \ 2.9 \ 2.8 \\ 38-34 \ 22 \ 18 \end{array} \quad 265 \quad \begin{array}{r} 2.8 \\ 20 \end{array} \quad \begin{array}{r} 2.8 \\ 25 \end{array}$$

$$\begin{array}{r} 1.7 \\ 50 \end{array} \quad \begin{array}{r} 2.3 \\ 37 \end{array} \quad \begin{array}{r} 4.7 \\ 17 \end{array} \quad \begin{array}{r} 5.5 \\ 12.7 \end{array} \quad 3.0 \quad \begin{array}{r} 2.8 \\ 10 \end{array} \quad \begin{array}{r} 265 \\ 35 \end{array} \quad \begin{array}{r} 2.8 \\ 50 \end{array}$$

$$\begin{array}{r} 2.3 \\ 50 \end{array} \quad \begin{array}{r} 3.1 \\ 30 \end{array} \quad \begin{array}{r} 4.8 \\ 8 \end{array} \quad \begin{array}{r} 5.4 \\ 6 \end{array} \quad 5.3 \quad \begin{array}{r} 4.4 \\ 5 \end{array} \quad \begin{array}{r} 3.5 \\ 7 \end{array} \quad \begin{array}{r} 2.8 \\ 22 \end{array} \quad \begin{array}{r} 2.7 \\ 50 \end{array}$$

$$\begin{array}{r} 2.2 \\ 50 \end{array} \quad \begin{array}{r} 4.1 \\ 23 \end{array} \quad \begin{array}{r} 5.2 \\ 2 \end{array} \quad 5.6 \quad \begin{array}{r} 5.6 \\ 3 \end{array} \quad \begin{array}{r} 4.4 \\ 4 \end{array} \quad \begin{array}{r} 3.8 \\ 27 \end{array} \quad \begin{array}{r} 5.0 \\ 32 \end{array} \quad \begin{array}{r} 5.3 \\ 40 \end{array} \quad \begin{array}{r} 3.8 \\ 50 \end{array}$$

$$\begin{array}{r} 4.0 \\ 50 \end{array} \quad \begin{array}{r} 4.4 \\ 25 \end{array} \quad 4.6 \quad \begin{array}{r} 6.2 \\ 3.5 \end{array} \quad \begin{array}{r} 6.0 \\ 17 \end{array} \quad \begin{array}{r} 6.4 \\ 26 \end{array} \quad \begin{array}{r} 7.4 \\ 30 \end{array} \quad \begin{array}{r} 6.2 \\ 35 \end{array} \quad \begin{array}{r} 6.0 \\ 50 \end{array}$$

$$\begin{array}{r} 8.0 \\ 50 \end{array} \quad \begin{array}{r} 6.8 \\ 31 \end{array} \quad \begin{array}{r} 6.8 \\ 15 \end{array} \quad 6.8 \quad \begin{array}{r} 6.9 \\ 3 \end{array} \quad \begin{array}{r} 8.1 \\ 5 \end{array} \quad \begin{array}{r} 7.8 \\ 16 \end{array} \quad \begin{array}{r} 8.4 \\ 27 \end{array} \quad \begin{array}{r} 9.1 \\ 30 \end{array} \quad \begin{array}{r} 8.4 \\ 34 \end{array} \quad \begin{array}{r} 8.0 \\ 50 \end{array}$$

$$\begin{array}{r} 4.6 \\ 50 \end{array} \quad \begin{array}{r} 3.8 \\ 38 \end{array} \quad \begin{array}{r} 4.0 \\ 17 \end{array} \quad 3.8 \quad \begin{array}{r} 3.8 \\ 6 \end{array} \quad \begin{array}{r} 3.0 \\ 15 \end{array} \quad \begin{array}{r} 3.6 \\ 26 \end{array} \quad \begin{array}{r} 3.4 \\ 38 \end{array} \quad \begin{array}{r} 3.1 \\ 50 \end{array}$$

$$\begin{array}{r} 10.5 \\ 50 \end{array} \quad \begin{array}{r} 8.7 \\ 24 \end{array} \quad \begin{array}{r} 7.8 \\ 4 \end{array} \quad 7.9 \quad \begin{array}{r} 7.9 \\ 5 \end{array} \quad \begin{array}{r} 7.5 \\ 8 \end{array} \quad \begin{array}{r} 7.5 \\ 25 \end{array} \quad \begin{array}{r} 8.1 \\ 27-29 \end{array} \quad \begin{array}{r} 6.9 \\ 33 \end{array} \quad \begin{array}{r} 6.6 \\ 50 \end{array}$$

$$\begin{array}{r} 14.2 \\ 50 \end{array} \quad \begin{array}{r} 13.7 \\ 37 \end{array} \quad \begin{array}{r} 12.3 \\ 15 \end{array} \quad 11.6 \quad \begin{array}{r} 11.6 \\ 3 \end{array} \quad \begin{array}{r} 10.7 \\ 4 \end{array} \quad \begin{array}{r} 10.9 \\ 23 \end{array} \quad \begin{array}{r} 11.9 \\ 24-26 \end{array} \quad \begin{array}{r} 10.9 \\ 28 \end{array} \quad \begin{array}{r} 10.0 \\ 35 \end{array} \quad \begin{array}{r} 9.5 \\ 50 \end{array}$$

$$\begin{array}{r} 8.7 \\ 51 \end{array} \quad \begin{array}{r} 8.0 \\ 30 \end{array} \quad 6.2 \quad \begin{array}{r} 6.2 \\ 3 \end{array} \quad \begin{array}{r} 5.7 \\ 5 \end{array} \quad \begin{array}{r} 5.6 \\ 24 \end{array} \quad \begin{array}{r} 6.3 \\ 25-27 \end{array} \quad \begin{array}{r} 5.2 \\ 30 \end{array} \quad \begin{array}{r} 4.3 \\ 50 \end{array}$$

$$\begin{array}{r} 8.7 \\ 50 \end{array} \quad \begin{array}{r} 8.6 \\ 35 \end{array} \quad \begin{array}{r} 7.8 \\ 12 \end{array} \quad 7.0 \quad \begin{array}{r} 7.1 \\ 3 \end{array} \quad \begin{array}{r} 6.5 \\ 5 \end{array} \quad \begin{array}{r} 6.1 \\ 25 \end{array} \quad \begin{array}{r} 6.5 \\ 27-29 \end{array} \quad \begin{array}{r} 5.8 \\ 31 \end{array} \quad \begin{array}{r} 5.0 \\ 50 \end{array}$$

$$\begin{array}{r} 8.3 \\ 50 \end{array} \quad \begin{array}{r} 8.1 \\ 25 \end{array} \quad \begin{array}{r} 7.3 \\ 4 \end{array} \quad 7.0 \quad \begin{array}{r} 7.0 \\ 3 \end{array} \quad \begin{array}{r} 6.6 \\ 4 \end{array} \quad \begin{array}{r} 6.7 \\ 24 \end{array} \quad \begin{array}{r} 6.7 \\ 35 \end{array} \quad \begin{array}{r} 6.2 \\ 50 \end{array}$$

Sta	+	π	-	Elev
		1007.65		00.8
4+50				00.8
5				02.2
+50				03.6
+80				03.4
6	272	1002.16	522	02.2
	2.72	1005.16	522	1002.43
+50				00.6
7				98.2
+50				94.8
T.P	3.69	997.34	1151	993.65
7+50				
8				90.8
+50				88.9
9				87.3

Lt

K

Rt

$$\frac{7.0}{50} \quad \frac{6.9}{25} \quad 69 \quad \frac{7.0}{5} \quad \frac{6.5}{16} \quad \frac{6.7}{25} \quad \frac{8.7}{50}$$

$$\frac{6.1}{50} \quad \frac{5.5}{26} \quad 55 \quad \frac{6.0}{3} \quad \frac{6.1}{16} \quad \frac{6.7}{26} \quad \frac{7.2}{43} \quad \frac{7.7}{50} \quad \frac{8.3}{75} \quad \frac{9.9}{90}$$

$$\frac{7.8}{50} \quad \frac{5.9}{25} \quad 41 \quad \frac{3.9}{3} \quad \frac{4.5}{3} \quad \frac{4.4}{16} \quad \frac{5.0}{28} \quad \frac{4.4}{29} \quad \frac{5.1}{50} \quad \frac{7.0}{75}$$

$$\frac{9.4}{50} \quad \frac{7.0}{21} \quad 43 \quad \frac{4.8}{5} \quad \frac{4.3}{16} \quad \frac{4.5}{28} \quad \frac{3.8}{29} \quad \frac{3.5}{38} \quad \frac{3.7}{50} \quad \frac{4.1}{75}$$

$$\frac{12.2}{50} \quad \frac{8.1}{25} \quad 55 \quad \frac{5.4}{6} \quad \frac{4.7}{16} \quad \frac{4.9}{29} \quad \frac{4.0}{30} \quad \frac{3.2}{46} \quad \frac{3.4}{50}$$

$$\frac{11.6}{50} \quad \frac{8.0}{25} \quad \frac{5.6}{7} \quad 46 \quad \frac{3.9}{16} \quad \frac{4.0}{24} \quad \frac{3.9}{29} \quad \frac{3.0}{31} \quad \frac{1.9}{43} \quad \frac{1.6}{50}$$

Eleve No

$$\frac{15.0}{50} \quad \frac{12.1}{28} \quad \frac{8.5}{6} \quad 7.0 \quad \frac{6.5}{3} \quad \frac{5.7}{16} \quad \frac{6.1}{26} \quad \frac{5.5}{31} \quad \frac{4.9}{32} \quad \frac{3.4}{50} \quad \frac{2.3}{22}$$

$$10.4 \quad \frac{9.6}{5} \quad \frac{8.8}{16} \quad \frac{9.4}{24} \quad \frac{7.8}{26} \quad \frac{8.6}{30} \quad \frac{7.6}{31} \quad \frac{6.3}{50}$$

$$\frac{8.8}{50} \quad \frac{6.5}{26} \quad \frac{4.0}{4} \quad (2.5)$$

1.3
50

$$\frac{11.2}{50} \quad \frac{9.0}{25} \quad 6.5 \quad \frac{5.2}{7} \quad \frac{4.4}{16} \quad \frac{4.7}{24} \quad \frac{5.2}{27} \quad \frac{4.5}{29} \quad \frac{3.3}{31} \quad \frac{2.2}{36}$$

$$\frac{12.5}{50} \quad \frac{10.8}{25} \quad \frac{8.7}{5} \quad 8.4 \quad \frac{7.9}{6} \quad \frac{7.2}{16} \quad \frac{7.2}{24} \quad \frac{7.1}{29} \quad \frac{6.2}{30} \quad \frac{5.0}{36} \quad \frac{3.8}{50}$$

$$\frac{13.7}{50} \quad \frac{12.3}{26} \quad 10.0 \quad \frac{9.3}{7} \quad \frac{8.7}{16} \quad \frac{9.0}{28} \quad \frac{8.4}{30} \quad \frac{7.5}{36} \quad \frac{6.6}{50}$$

Sta	+	Δ	-	Elev
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997.34

9415

86.8

+30

Profile Geranium StV 86.7

+50

86.2

T.P

3.07

988.87

1154

985.80

10

85.7

+50

85.0

11

84.7

+50

82.9

12

80.2

+50

78.0

13

75.7

T.P

4.13

979.53

13.47

975.40

+50

73.4

+80

72.9

Lt

A

Rt

$$\frac{13.5}{50} \quad \frac{12.3}{22} \quad \frac{11.2}{8} \quad 10.5 \quad \frac{10.3}{7} \quad \frac{9.4}{9} \quad \frac{9.1}{18} \quad \frac{8.9}{33} \quad \frac{7.0}{41} \quad \frac{7.7}{44} \quad \frac{7.5}{50}$$

$$\frac{14.0}{50} \quad \frac{12.9}{27} \quad \frac{11.7}{6} \quad 10.6 \quad \frac{9.8}{7} \quad \frac{9.3}{19} \quad \frac{8.6}{35} \quad \frac{7.9}{50} \quad \frac{4.5}{100} \quad \frac{1.0}{147}$$

$$\frac{14.0}{50} \quad \frac{12.7}{22} \quad \frac{12.0}{6} \quad 11.1 \quad \frac{10.2}{10} \quad \frac{9.7}{18} \quad \frac{9.4}{29} \quad \frac{8.4}{50}$$

$$\frac{6.1}{50} \quad \frac{5.0}{28} \quad \frac{4.3}{15} \quad 3.2 \quad \frac{3.3}{6} \quad \frac{2.7}{12} \quad \frac{2.2}{26} \quad \frac{1.1}{50}$$

$$\frac{7.4}{50} \quad \frac{5.6}{23} \quad 3.9 \quad \frac{3.7}{7} \quad \frac{3.4}{18} \quad \frac{3.4}{28} \quad \frac{2.8}{35} \quad \frac{2.5}{50}$$

$$\frac{8.6}{50} \quad \frac{7.2}{26} \quad \frac{5.3}{5} \quad 4.2 \quad \frac{4.2}{4} \quad \frac{4.5}{7} \quad \frac{4.7}{15} \quad \frac{3.8}{22} \quad \frac{3.4}{50} \quad \frac{3.1}{66}$$

Elev at Ho

$$\frac{10.4}{50} \quad \frac{9.2}{30} \quad \frac{8.1}{9} \quad 6.0 \quad \frac{5.9}{8} \quad \frac{5.5}{16} \quad \frac{4.2}{23} \quad \frac{4.4}{35} \quad \frac{4.1}{50}$$

$$\frac{12.0}{50} \quad \frac{10.8}{26} \quad \frac{9.7}{7} \quad 8.7 \quad \frac{8.1}{4} \quad \frac{8.6}{7} \quad \frac{8.1}{18} \quad \frac{7.0}{23} \quad \frac{6.1}{40} \quad \frac{5.7}{50}$$

$$\frac{13.5}{50} \quad \frac{12.3}{29} \quad \frac{11.3}{6} \quad 10.9 \quad \frac{10.9}{4} \quad \frac{10.3}{24} \quad \frac{8.9}{50}$$

$$\frac{15.0}{50} \quad \frac{14.0}{24} \quad 13.2 \quad \frac{13.5}{48.7} \quad \frac{13.8}{16} \quad \frac{12.6}{20} \quad \frac{11.9}{50}$$

$$\frac{7.5}{50} \quad \frac{6.9}{22} \quad 6.1 \quad \frac{5.7}{18} \quad \frac{5.0}{19} \quad \frac{4.0}{50}$$

$$\frac{8.5}{50} \quad \frac{8.0}{26} \quad \frac{6.8}{6} \quad \frac{7.7}{3} \quad 6.6 \quad \frac{6.4}{15} \quad \frac{5.4}{33} \quad \frac{4.5}{50}$$

Sta	+	X	-	Elev
		979.53		
14+00				73.0
+50				72.3
+72		Profile Ditch R114		70.3
15				71.9
+50				72.5
+80 ²⁰				73.4
B.M		6.08	973.45	973.44

Lt

Z

Rt

$$\frac{8.5}{50} \frac{8.0}{76} \frac{6.8}{6} \frac{8.1}{3} \frac{7.3}{2} 6.5 \frac{6.1}{18} \frac{6.1}{20} \frac{6.1}{25} \frac{4.7}{58}$$

$$\frac{8.8}{50} \frac{8.4}{35} \frac{8.2}{13} \frac{7.6}{5} \frac{7.6}{4.3} \frac{7.7}{2} 7.2 \frac{6.7}{7} \frac{5.9}{26} \frac{4.1}{50}$$

$$\frac{12.2}{100} \frac{12.1}{50} \frac{10.4}{25} 9.2 \frac{9.0}{8} \frac{6.7}{35} \frac{5.8}{50} \frac{3.7}{100}$$

$$\frac{7.3}{50} \frac{8.7}{33} \frac{7.8}{7} \frac{9.2}{6.5} \frac{8.2}{4} 7.6 \frac{7.0}{4} \frac{6.2}{27} \frac{5.1}{50}$$

$$\frac{7.1}{50} \frac{8.2}{26} \frac{7.2}{7} 7.0 \frac{5.7}{28} \frac{4.4}{50}$$

$$\frac{8.7}{50} \frac{8.1}{27} 6.1 \frac{6.4}{11} \frac{5.0}{25} \frac{3.8}{50}$$

Top Iron 0+00

Sta 1 A - Elev