

Dr. 9 Bk. 2

OFFICE OF COUNTY ENGINEER
RAMSEY COUNTY, MINN.

PLAN Survey

ALLOWAY ST.

E. PAUL Rd. To FURNESS

Road Acc't. No. _____

Date Filed 2-6-59

File Dr. 9 Bk2

HOLLOWAY St.

N. St. Paul Rd to Furness

Profile
+
Topog

Profile 2-11

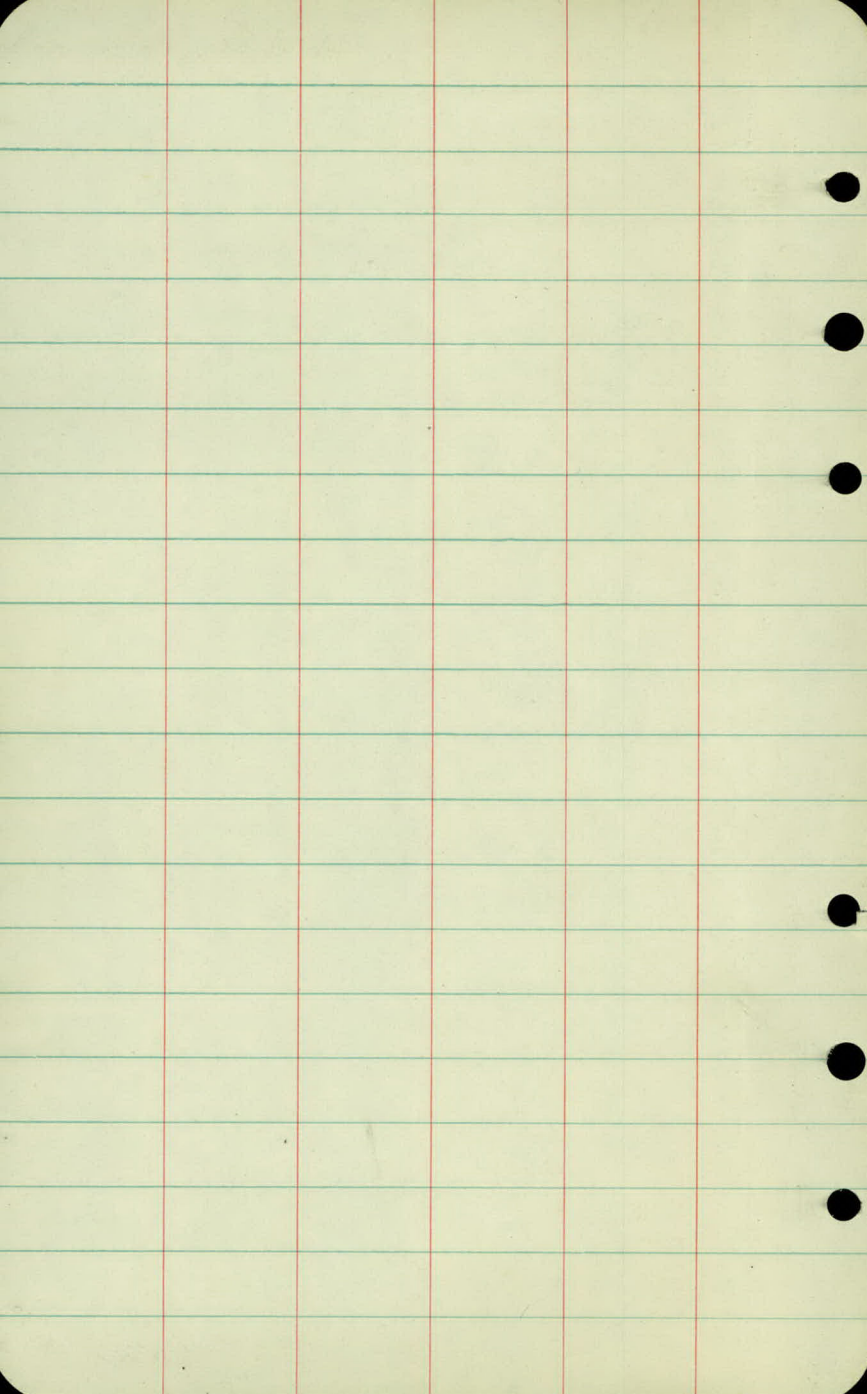
Topog. 12-15

Bench 16-17

Align 18-20

x-Section 21-34

platted
11/15/56



FX W
LC H.C.
RG Rod
KP A

Oct 23, 1956

2

Profile

Sta + π - Elev

BM 5.39 991.52

986.13

0+00 E N. St. Paul Rd

+17 Edge Pavement

+27 Shoulder

+41

+55

+75

2 Oct 23, 1956

3

Lt

Rt

Top Mont. Ctr sec 14-29-22

5.22

5.53

5.5

11.0

13.1

13.6

Sta + π - Elev

991.52

1 + 00

+ 50

+ 75

2

+ 41

+ 64

£ Oct 23, 1956

4

12.4

9.5

6.6

4.7
HO

4.8

5.6

9.3

Sta + X - Elev

991.52

2 + 82

3

+ 21

+ 49

+ 69

4.

T.P. 8.30 992.77 7.05 984.47

Oct 23, 1956

5

11.8

9.9

5.3

9.6

11.6

10.7

Sta + x - Elev

992.77

+22

+43

+71

5

+31 Iron

+54

Oct 23, 1956

6

8.7

7.2

7.5

8.6

9.5

9.2

Sta + π - Elev

992.77

6

+ 19

+ 34 Iron

+ 62

7

T.P. 14.04 / 1005.96 0.85 991.92

+ 48

£ Oct 23, 1956

14

ft

7

5.5

3.3

2.0

13.40

64

14.04

1.3

0.4

12.2

Sta + Δ - Elev

1005.96

7 + 74

8

+ 40

+ 70

9

+ P

7.35

1001.91

11.40

994.56

+ 26

Oct 23, 1956 8

8.4

5.0

4.5

6.7

11.5

10.1

Sta	+	π	-	Elev
-----	---	-------	---	------

		1001.91		
--	--	---------	--	--

9+58				
------	--	--	--	--

10				
----	--	--	--	--

+17				
-----	--	--	--	--

+63				
-----	--	--	--	--

11				
----	--	--	--	--

+31				
-----	--	--	--	--

TP	6.41	1005.15	3.17	998.74
----	------	---------	------	--------

Oct 23, 1956

9

9.6

5.5

6.0

8.5

2.1

0.5

Sta	+	-	Elev
-----	---	---	------

1005.15

 $11 + 57$

12

+ 22

+ 48

+ 72

+ 84

Oct 23, 1956

10

5.3

10.0

12.9

12.0

11.2

5.2

Sta + π - Elev

1005.15

13

BM

10.38 994.77

12+99 $\pm$ 6th St.

1001.75
999.75
1.55

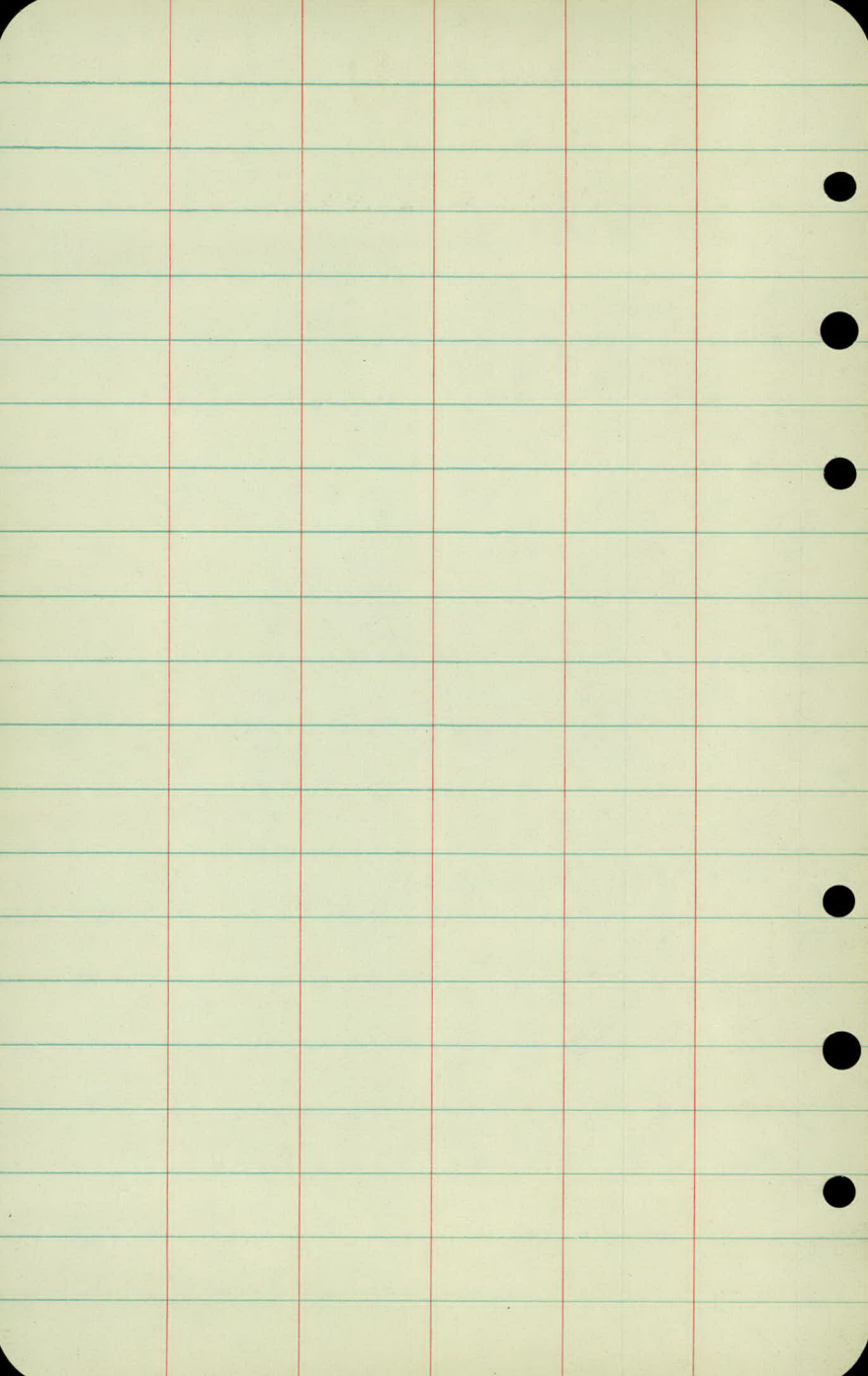
\$ Oct 23, 1956

11

999.85

5.3

Top S. End X-Drain S.W. Cor Holloway
& Ferness



Topography

4

$$\begin{array}{r} \text{Trees} \\ 25 \quad 5 \end{array}$$

$$\begin{array}{r} \text{Trees} \\ +50 \quad 30 \quad -5 \end{array}$$

$$+21 \quad \begin{array}{r} \text{Trees (Begin)} \\ 80' - 2 \end{array}$$

3

$$+75 \quad \begin{array}{r} 4 \text{ Cott} \\ 26 \end{array}$$

$$+80 \quad \begin{array}{r} 12' \text{ C. H} \\ 16 \end{array}$$

$$+24 \quad \begin{array}{r} \text{SE Cor Ho} \\ 10.5 \end{array}$$

$$+05 \quad \begin{array}{r} \text{End Trees} \\ 10' \end{array}$$

2

$$+72 \quad \begin{array}{r} \text{S.W. Cor Ho} \\ 11 \end{array}$$

1

$$+01 \quad \begin{array}{r} \text{Tripo} \\ 20 \end{array}$$

$$\begin{array}{r} \text{Trees} \\ 5 - 25 \end{array}$$

$$+20 \quad \begin{array}{r} \text{Begin Row Trees} \\ 10 \end{array}$$

$$+17 \quad \begin{array}{r} \text{Edge B.T.} \\ 2 \end{array}$$

$$- 18.0 \\ \text{Mont}$$

Lowland

31 Trees

23 Stumps

3 trees

20 Trees

16 Stumps

14 Trees

13 Stumps

St. Paul
Rd.

9

Trees
60 →

8

Trees
90 →

7

Trees
80 →

Trees
+22 25 →

Grove

6

Trees
25 - 4

5

Trees
28 - 4

4

Low Land

Forest

to +20

6 Trees

sta
to
sta

26 Trees

29 Trees

51 Stamps

13

+90	<u>Edge 6th</u>	+70	<u>End Trees</u>
	14		10 →

12

<u>Trees</u>
40 →

11

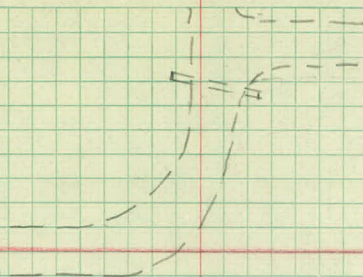
<u>Trees</u>
40 →

10

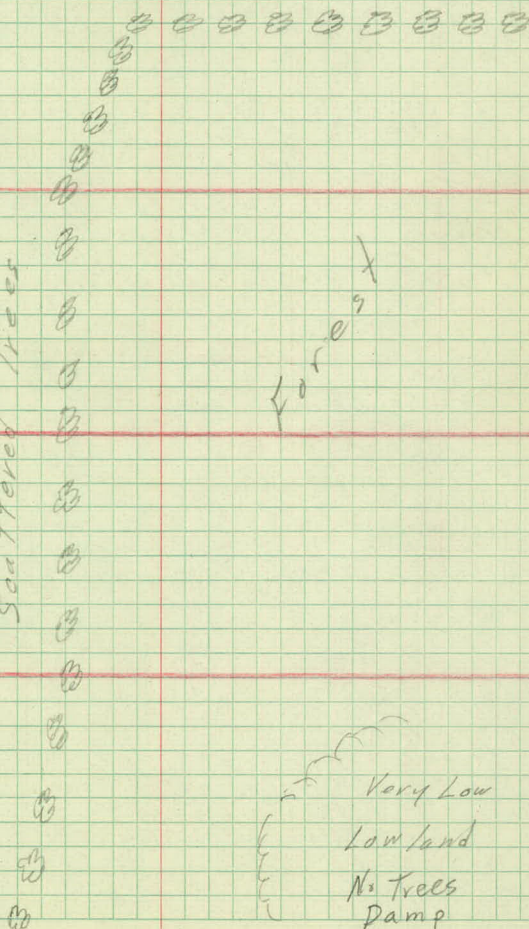
<u>Scattered Trees</u>	<u>Trees</u>
Beyond 90'	40 →

9

<u>Trees</u>
60'

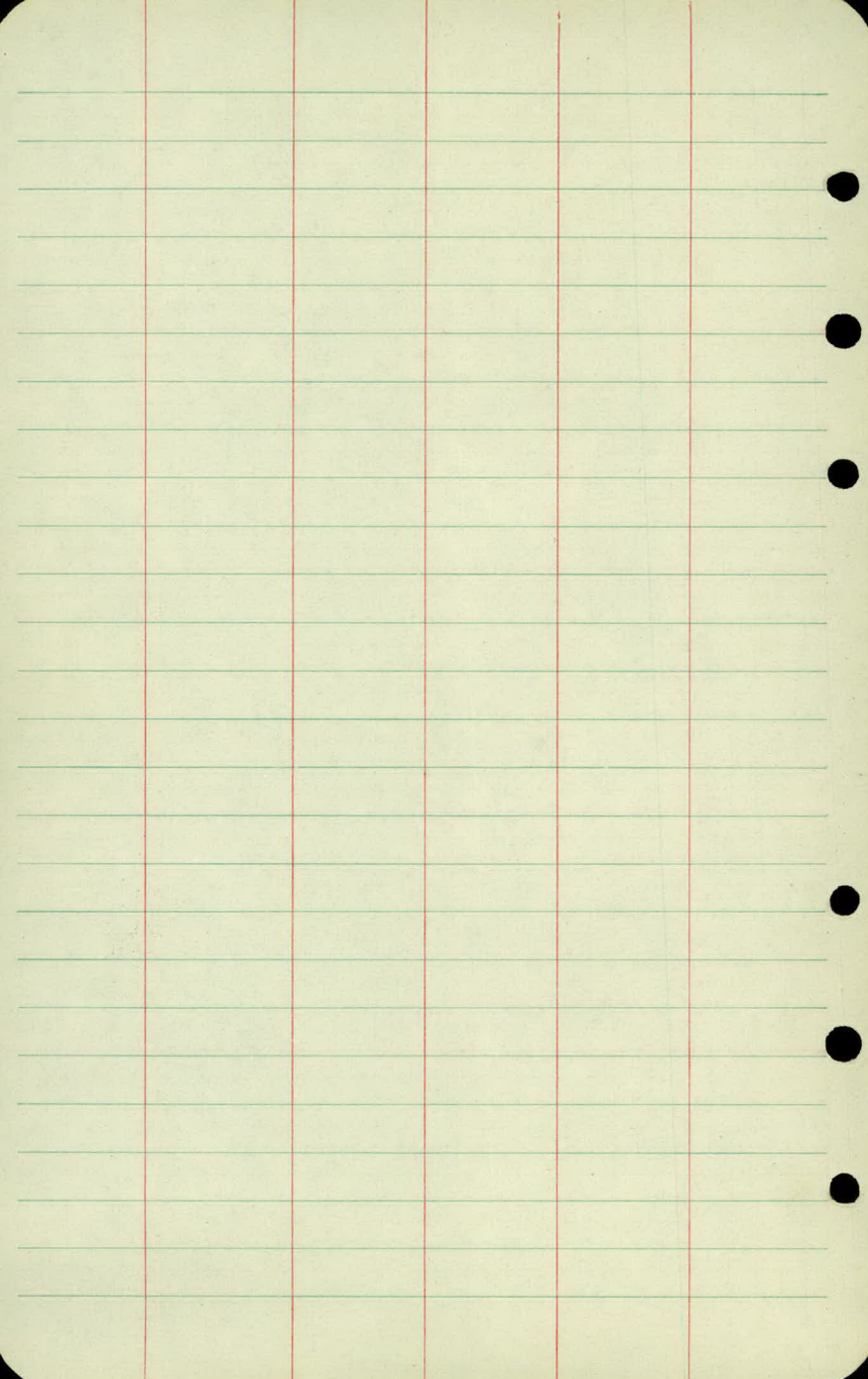


Scattered Trees



Forest

Very Low
Lowland
No Trees
Damp



Bench Levels

Sta	+	π	-	Elev
BM	6.50	992.63		986.13
BM	13.51	1004.53	1.61	(991.02)
BM	0.925	1007.81	3.64	(1000.89)
BM	1.62	1001.47	1.96	(999.85)
BM			6.76	994.71 994.77
BM			5.63	995.84
TP	1.56	990.66	12.37	989.10
"	1.66	984.25	8.07	982.59
BM		7884 5.41	5.40	978.85 (978.84)

FR. LA
LC Axe
RG X
KP Red

£ Oct. 24, 1956

17

Top Mont Cr Sec 14 at N. St. Paul Rd

Spike in 10" Red oak 48' Rt Sta 6+40

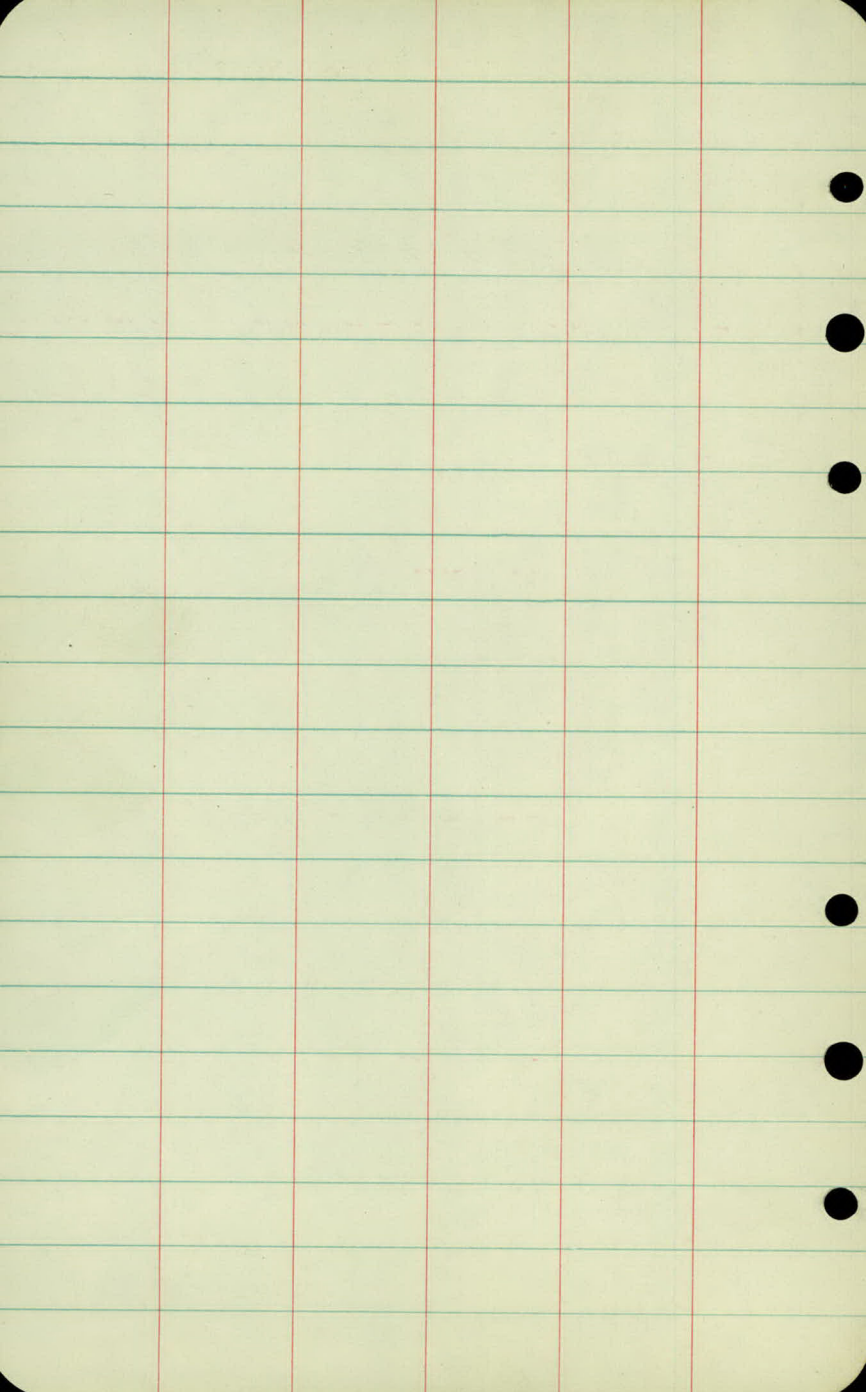
Spike in 12" Poplar 35' Lt Sta 9 ±

Spike in Stump at P.P. NW Cor 6th St &

Top S. End X-Drain S.W. Cor Holloway & Farness

Spike in Arc Lt Pole S.E. Cor Holloway & Farness

Top Hyd N.E. Cor Holloway & East Ave



FC
RG
KIP

Oct 25, 1950 18
Cloudy Windy 60'

Alignment

Sta Point ΔL ΔR

5+32.00 Iron Φ

3+18.75 P.O.T.

2+65.08 Iron Φ

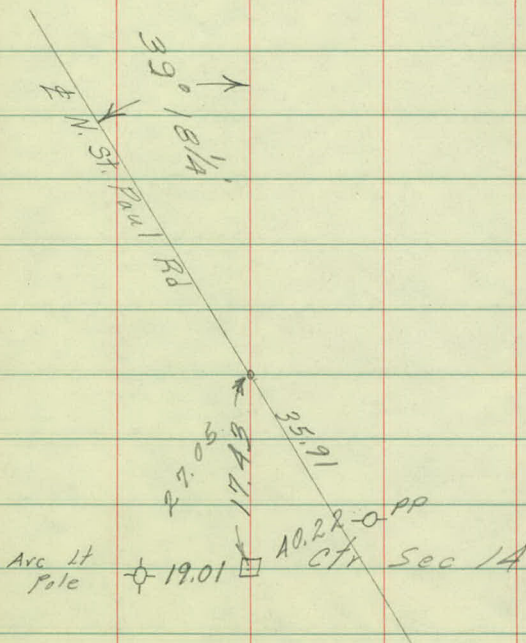
0+79.18 Iron Φ

0+00 Φ N. St. Paul Rd.

Oct 23, 1936

19

Spike



£

Sta

25+93.35 £ East Ave

13+00

12+98.73 £ 6th St.

12+71.85 RR iron 0.21 Lt.

6+35.18 Iron 1.43 Rt

FK
LC
RG
KP

Oct 26, 1956

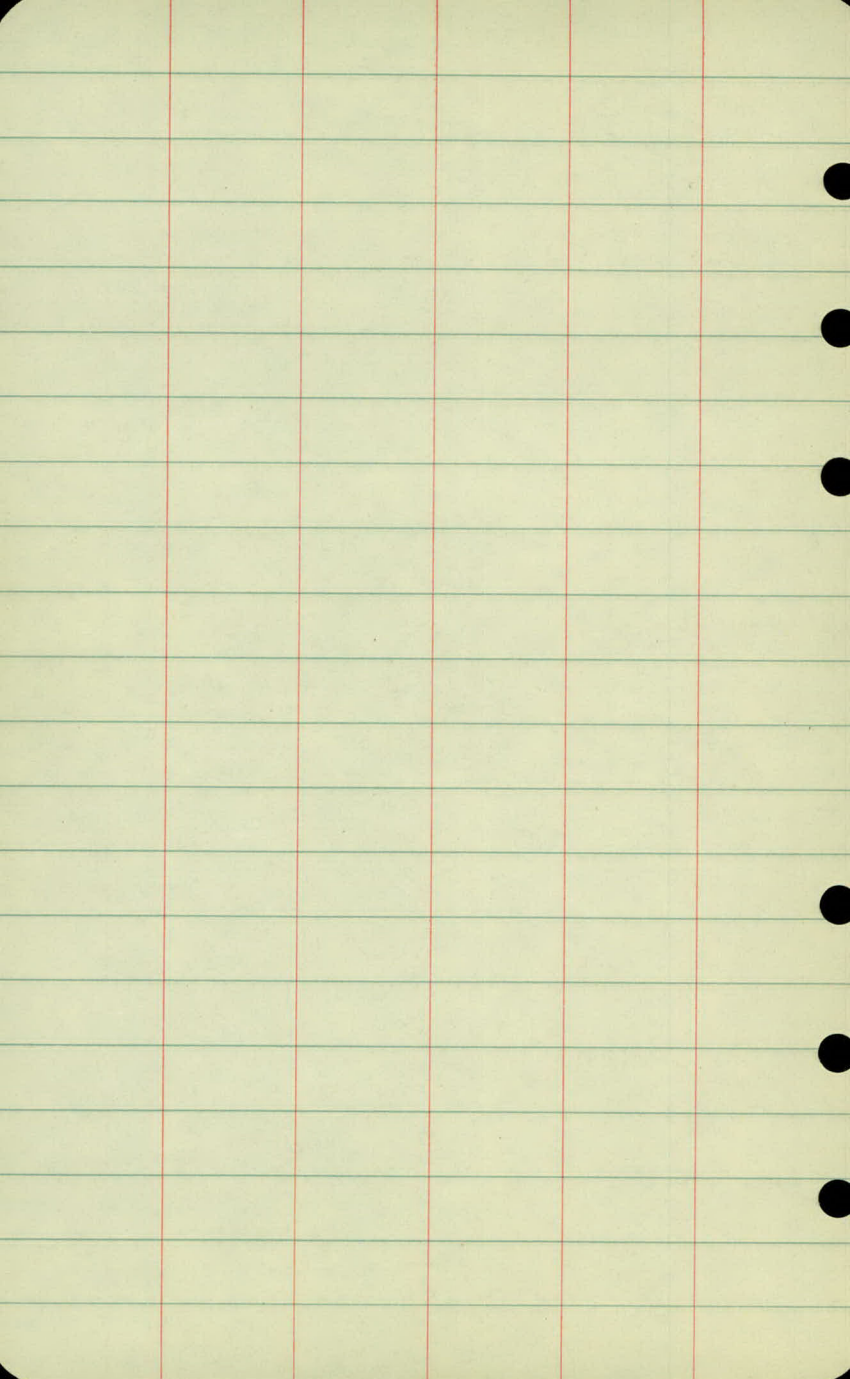
20

Punch Hole

68.67

spike

Root spike



KK
RG
KP

Oct 29, 1956
Cloudy-Cool-55

21

x-sections

Sta	+	π	-	Elev
BM	3.05	989.18		986.13

0+00 on E N. St. Paul Rd

0+00

+26 shoulder

+40 Toe slope

+70

✓

2 Oct 29, 1956

22

Lt.

RT

Top Mont ctr. Sec 14 at N. St. Paul Rd

85.32	85.14	86.28	86.68	86.88	87.03
3.86	3.44	2.90	2.50	2.30	2.15
93	50		50	100	150

86.28	86.23	85.8	83.7	82.1
2.90	2.95	3.4	5.5	6.1
15	22	33	50	

85.88	85.76	85.2	82.1	80.2	79.3
3.30	3.42	4.0	7.1	9.0	9.9
23	8		10	30	50
LT	BT				

85.83	85.61	84.9	80.2	79.8	79.7	78.9	78.8
3.35	3.57	4.3	9.0	9.4	9.5	10.3	10.4
34	20	14		18	35	45	50
LT	BT						

84.8	82.0	79.3	76.9	76.9	78.6	78.2
4.4	7.2	9.9	12.3	12.3	10.6	11.0
40	31	23		20	28	50

85.22
3.96
46
BT

Sta + π - Elev

989.18

1

✓

+ 50

+ 72

T.P. 3.04 990.10 2.12 987.06

2

+ 11

2 Oct 29 1956 23

11

B1

19.1

19.0

19.2

19.0

18.3

18.5

18.1

18.2

10.1

10.2

10.0

10.2

10.9

10.7

11.1

11.0

43

31

13

14

26

45

50

19.1

80.1

9.5

9.1

49

50

83.0

83.2

83.0

82.7

82.0

80.6

79.7

79.3

78.9

6.2

6.0

6.2

6.5

7.2

8.6

9.5

9.9

10.3

50

45

31

15

16

24

37

50

85.6

85.9

86.2

85.5

84.4

83.7

82.0

81.0

80.2

80.1

3.6

3.3

3.0

3.7

4.8

5.5

7.2

8.2

9.0

9.1

50

45

32

12

7

19

30

43

50

86.9

86.88

86.3

86.5

84.2

82.7

82.4

3.2

3.22

3.3

3.6

5.9

7.4

7.7

12.2

Wa/k

13

28

46

50

H₀

8

86.9

86.96

86.9

86.8

88.4

86.2

85.8

83.2

3.2

3.14

3.2

3.3

1.7

3.9

4.3

6.4

11.5

7

5

11

27

38

50

H₀

Wa/k

Sta	+	π	-	Elev.
-----	---	-------	---	-------

Sta	+	π	-	Elev.
-----	---	-------	---	-------

990.10

Sta	+	π	-	Elev.
-----	---	-------	---	-------

2+25

Sta	+	π	-	Elev.
-----	---	-------	---	-------

+45

Sta	+	π	-	Elev.
-----	---	-------	---	-------

+81

Sta	+	π	-	Elev.
-----	---	-------	---	-------

3

Sta	+	π	-	Elev.
-----	---	-------	---	-------

✓

Sta	+	π	-	Elev.
-----	---	-------	---	-------

+19

2 Oct. 28 1956 24

11

R1

85.6	86.7	86.8	86.6	86.0	81.7	80.9	82.1	85.1
4.5	3.4	3.3	3.5	4.1	8.4	9.2	7.4	4.4
50	30.5	11		17	25	37	44	50
G ₁ H ₂		G ₂ H ₂						

	85.4	85.6	86.2	81.3	81.1	81.9
7.7	5.2	4.5	4.7	4.5	3.9	8.8
50	41	28	14		20	33
						42
						50

16.1	16.3	11.3	11.3	11.9	80.1	19.4	82.1	82.1
140	138	12.8	10.8	10.2	10.0	10.7	8.0	8.0
50	45	28	18		10	30	38	50

18.1	80.4	81.2	82.4	82.6	83.3	82.2	18.8	18.8
12.0	9.7	8.9	7.7	7.5	6.8	7.9	11.3	11.3
50	39	21	7		7	17	29	37

81.0	19.6
9.1	10.5
50	45

80.9	81.5	83.7	84.6	86.1	86.3	83.6	82.0	84.1
9.2	8.6	6.4	5.5	4.1	3.8	4.5	7.1	5.4
43	30	23	12		14	20	30	36

81.2
8.9
50

81.3
2.8
50
83.3
6.8
43

Sta + π - Elev

990.10

3+27

✓

T.P. 5.13 988.81 6.42 983.68

+60

+82

4

+35

Lt

Oct 29, 1956

25

R1

12.3	10.9	12.9	15.0	15.8	16.5	17.5	18.1	17.4
11.8	9.2	7.2	5.1	4.3	3.6	2.6	2.0	2.7
38	24	15	5		9	21	37	50

17.8

12.3

50

12.3	13.9	11.1	10.2	12.3	13.2	14.1	15.2
16.5	14.9	11.7	8.6	6.5	5.6	4.7	3.6
50	31	13		8	16	34	50

12.5	13.4	15.2	17.3	19.1	21.6	23.0	23.8	25.2
16.3	15.4	13.6	11.5	9.1	7.2	5.8	5.0	3.6
50	37	23	10		6	15	36	50

13.0	13.8	15.1	16.6	18.8	22.0	23.3	24.1	25.4
15.8	15.0	13.1	10.2	8.0	6.8	5.5	4.7	3.4
50	38	23	9		4	12	33	50

17.9	19.9	22.3	24.7	24.8	25.2	25.6	25.8	26.7
10.9	8.9	6.5	4.1	4.0	3.6	3.2	3.0	2.1
50	29	17	2		6	18	34	50

Sta + π - Elev

988.81

A+70

5

+32

TP 8.88 993.96 3.73 985.08

+70

✓

6

Oct 28, 1956

26

11

84

79.6	80.3	82.1	83.9	85.2	85.5	85.9	86.1	87.1	87.4
92	85	67	49	36	33	29	21	17	14
50	40	25	11		3	12	26	40	50

81.1	80.8	81.3	81.9	83.8	84.2	84.6	85.0	85.5	85.9
77	80	75	69	50	46	42	38	33	29
50	45	30	17	4		11	22	39	50

86.0	84.5	83.2	83.7	83.2	83.1	83.2	83.4	83.8
28	43	56	51	56	57	56	54	50
50	29	16	6		10	23	37	50

90.0	89.1	86.8	86.0	84.8	83.7	83.5	83.3	83.3
4.0	4.9	7.2	8.0	9.2	10.3	10.5	10.7	10.7
37	23	13	8		7	22	36	50

90.7

33
50

81.4

82.2

83.3

83.8

83.5

83.3

83.4

126
160

11.8

107

112

10.5

107

10.6

No Culvert Required

90.3	91.4	91.2	88.8	87.2	86.2	85.9	85.9	85.9
37	26	28	52	68	78	81	81	81
50	38	24	11		9	20	40	50

294

Sta	+	π	-	Elev
		993.96		

6+35

BM	6.86	997.88	2.94	991.02	991.02
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+70

7

+50

+75

TP	8.31	1006.02	0.17	997.71
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8

PK
RG
KP

14

Oct. 29, 1956
Oct. 30, 1956
Cloudy Cool
Wet 650

27

q2.7 q1.9 q2.5 q3.1 q1.7 q0.8 q9.2 q9.1 q9.2 q9.1

332.1 1.5 0.9 2.3 3.2 4.8 4.9 4.8 4.9

50 41 31 22 10 18 31 44 50

Spike in 10" Red Oak 48' RT Sta 6+40

q2.0 q2.9 q3.8 q2.9 q2.0 q1.9 q0.2 q9.1 q0.5 q0.8

5.9 5.0 4.1 5.0 5.9 6.0 7.7 8.2 7.4 7.1

50 33 21 13 6 18 29 40 50

q3.5 q3.3 q3.6 q2.8 q2.4 q1.8 q1.6 q2.2 q2.1

4.4 4.6 4.3 5.1 5.5 6.1 6.3 5.7 5.8

50 34 23 14 13 27 39 50

q3.4 q3.5 q4.2 q4.3 q4.2 q3.6 q2.9 q2.1 q0.8

4.5 4.4 3.7 3.6 3.7 4.3 5.0 5.8 7.1

50 40 27 13 12 23 38 50

q5.1 q5.4 q6.9 q7.1 q7.8 q7.7 q6.1 q4.8 q2.4

2.8 2.5 1.0 0.2 0.1 0.2 1.8 3.1 5.5

50 36 23 8 9 23 35 50

q7.4 q8.0 q9.3 q9.8 q0.5 q1.2 q1.4 q9.9 q8.4 q6.3

8.6 8.0 6.7 6.2 5.5 4.8 4.6 6.1 7.6 9.7

50 34 18 10 10 17 32 41 50

Sta + π - Elev

1006.02

8+35

+65

9

TP 2.93 / 1000.43 8.52 997.50

9

+35

✓

Oct. 30, 1956

28

Lt

Rt

96.0	96.9	97.1	99.2	01.3	02.0	02.5	00.5	98.8
10.0	9.1	8.3	6.8	4.7	4.0	3.5	5.5	7.2
50	41	24	17		10	29	43	50

95.6	96.6	98.6	99.6	00.0	99.1	98.5	96.5	93.8
10.4	9.4	7.4	6.4	6.0	6.3	7.5	9.5	12.2
50	36	16	8		8	21	36	50

97.0	97.4	99.0	99.1	98.2	95.5
9.0	8.6	7.0	6.9	7.8	10.5
50	46	33	20	10	

Nail in 12" out & sta 9405.5

93.2	90.5	88.1	86.7	85.9
7.2	9.9	12.3	13.7	14.5
8	20	30	42	50

98.0	97.3	96.2	95.5	92.7	90.6	87.5	85.9	85.4
2.4	3.1	4.2	4.9	7.7	9.8	12.9	14.5	15.0
38	28	18	8		9	25	43	50

97.6 96.2 94.0

2.8 4.2 6.4
45 46 50

Sta + π - Elev

1000.43

9+60

TP 4.19 1000.97 3.65 996.78

10

+25

+50

+70

11

TP 6.04 1005.25 1.76 999.21

Oct 30, 1956

29

14

RT

94.3	94.1	94.1	94.5	94.4	92.6	90.7	88.3	87.3
61.57	5.7	5.7	5.9	6.0	7.8	9.7	12.1	13.1
50.47	35	19	10			14	29	38
								50

92.3	92.8	93.9	94.5	96.3	96.6	95.5	94.2	92.1
8.7	8.2	7.1	6.5	4.7	4.4	5.5	6.8	8.3
50	35	23	14		11	24	39	50

93.1	92.9	92.5	93.1	94.6	95.2	96.2	96.8	97.4	97.4
7.9	8.1	8.5	7.9	6.4	5.8	4.8	4.2	3.6	3.6
50	49	32	16	8		12	25	36	50

94.5	94.0	92.7	91.9	92.9	94.7	95.8	96.8	96.7
6.5	7.0	8.3	9.1	8.1	6.3	5.2	4.2	4.3
50	44	27	16		14	24	41	50

95.3	94.7	94.1	92.8	93.5	95.1	97.1	97.2	97.0
5.7	6.3	6.9	8.2	7.5	5.9	3.9	3.8	4.0
50	38	26	12		13	29	39	50

95.1	96.9	97.1	99.6	94.6	99.9	90.5	99.5	98.1
5.9	4.1	3.9	1.4	1.4	1.1	0.5	1.5	2.3
50	32	18	6		12	24	39	50

Sta + π - Elev

1005.25

11+35

+ 70

12

TP 2.33 1000.49 7.09 998.16

12

+ 25

+ 50

Oct 30, 1956

30

14

51

91.8	92.9	95.3	97.7	00.4	00.9	02.1	03.2	02.5	01.9
13.5	12.4	10.0	7.6	4.9	4.4	3.2	2.1	2.8	3.4
50	42	28	15	5		11	28	41	50

89.0	94.4	91.1	94.3	97.9	98.4	99.8	91.3	02.4	03.8	03.9
16.3	15.9	14.2	11.0	7.4	6.9	5.5	4.0	2.9	1.5	1.4
50	44	31	16	3		9	21	29	41	50

94.9	96.8	99.1	01.7	02.8
10.4	8.5	6.2	3.6	2.5
	13	28	42	50

96.3	94.2	90.5	93.0	94.3
12.2	11.3	10.0	7.5	6.2
50	33	22	10	3

90.4	90.4	90.4	91.5	91.9	94.0	96.2	98.1	99.5
10.1	10.1	10.1	9.0	8.6	6.5	4.3	2.4	1.0
50	40	23	9		15	28	42	50

93.6	93.2	93.2	93.3	93.4	92.9	93.0	93.5	94.5	95.8
6.9	7.3	7.3	7.2	7.1	7.6	7.5	7.0	6.0	4.7
50	36	20	8		5	14	29	40	50

Sta + x - Elev

1000.49

12+71.85

BM 5.15 1005.00 0.65 999.84 999.85

+89 shoulder

12+9873 $\neq$ 6th St Lt.

13

FA
RG
XP

Oct 30, 1936
Oct 31, 1936
Rt

31

1+

95.8 95.5 99.1 94.8 94.1 93.8 93.5 93.6 94.1

4.7 5.0 5.4 5.7 6.4 6.7 7.0 6.9 6.4

50 38 24 10 15 31 41 50

Spike in stump of P.P. N.W. Cor. 6th St & Holloway

99.1

4.8 4.7 5.0 5.0 5.9 4.7 2.3 1.7 1.2

50 41 27 12 8 14 22 34

0.7 0.7
50 43

99.9

4.2 4.3 4.6 5.0 5.1 5.2 2.7 1.6 0.4

75 50 30 9 7 17 27 28

4.3 4.7 5.0

100 150 200

0.5 0.6 0.7

50 43 36

99.9

5.1

Sta + π - Elev

1005,00

13405

✓

+25

+52

✓

+63

Oct. 31, 1956

32

14

81

99.8

4.75 4.8 5.0 5.2 4.9 2.3 1.5 0.3
50 38 14 11 16 20 28

0.6 0.7
50 39

98.7

8.1 8.1 7.6 6.5 6.4 6.3 6.5 9.9 10.9 10.8
50 35 24 17 11 15 26 36 50

97.0

9.5 9.6 9.1 9.2 8.5 8.0 7.9 8.4 8.3 9.7
50 38 24 16 8 6 15 25 29

10.5 10.3
50 46

96.3

9.5 10.1 9.4 9.0 8.7 8.6 9.2 9.1 10.3
21 15 11 7 7 17 19 23

→ 9.6 10.0 9.9
32 42 50

10.8 11.2 11.32
50 36 26.3
12" CM

Sta + π - Elev

1005.00

13+70 Shoulder Furness

✓
+71

+71

+84 Φ Furness Rt

✓

~~14~~ Shoulder Furness

Oct 31, 1956

33

Lt

Rt

957

100 9.2 9.6 9.6 9.25 9.1 9.6 9.3 9.1
30 19 16 9 11 26 40 50

→ 10.4 10.3
39 50

12.50
FL 15' CM
11.2

95.0

10.2 12.0 10.0 10.0 9.7 9.8 9.5 9.2
18 14 10 12 20 36 50

→ 10.6 11.0 10.9
31 43 50

5.3 7.7 8.7
150 100 75

94.3

11.1 12.7 10.9 10.7 10.4 10.4 10.1 9.9
17 14 10 11 25 44 50

→ 11.3 11.8 11.7
27 39 50

Sta	+	Σ	-	Elev
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1005.00

14+50

13.1 91.9

15

14.6 90.4

+50

15.7 89.3

16

16.5 88.5

BM

9.16 995.84 (995.84)

10.29 994.71 (994.71)

Oct 31, 1956

34

11

Rt

Spike in Arc light pole SE Con Holloway & Furness

