

BK 31

DR 11A

OFFICE OF COUNTY ENGINEER
RAMSEY CO. MINN.

ALIGNMENT Survey

ROAD-IN - INGERSON - PROP.

From HAMLIN Co. EAST

Road Acc't. No.

Date Filed 1-31-45 File

also 1950 X sect. notes

Alignment

Road in Ingerson Prop.

6-13-AA

K. A.

Rec 6/13/44

Platted 6/13/44 How

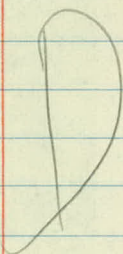
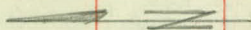
Sta Point Δ Lt Δ Bt

7 +35.0 End of Road.

2 +43.0 P.I.

1°15'

0 +00



2"x2" Hub

30.0 Old Iron F.P.
Set In Conc.

31.5 Iron

50'
120'

2"x2" Hub 30.5' Iron

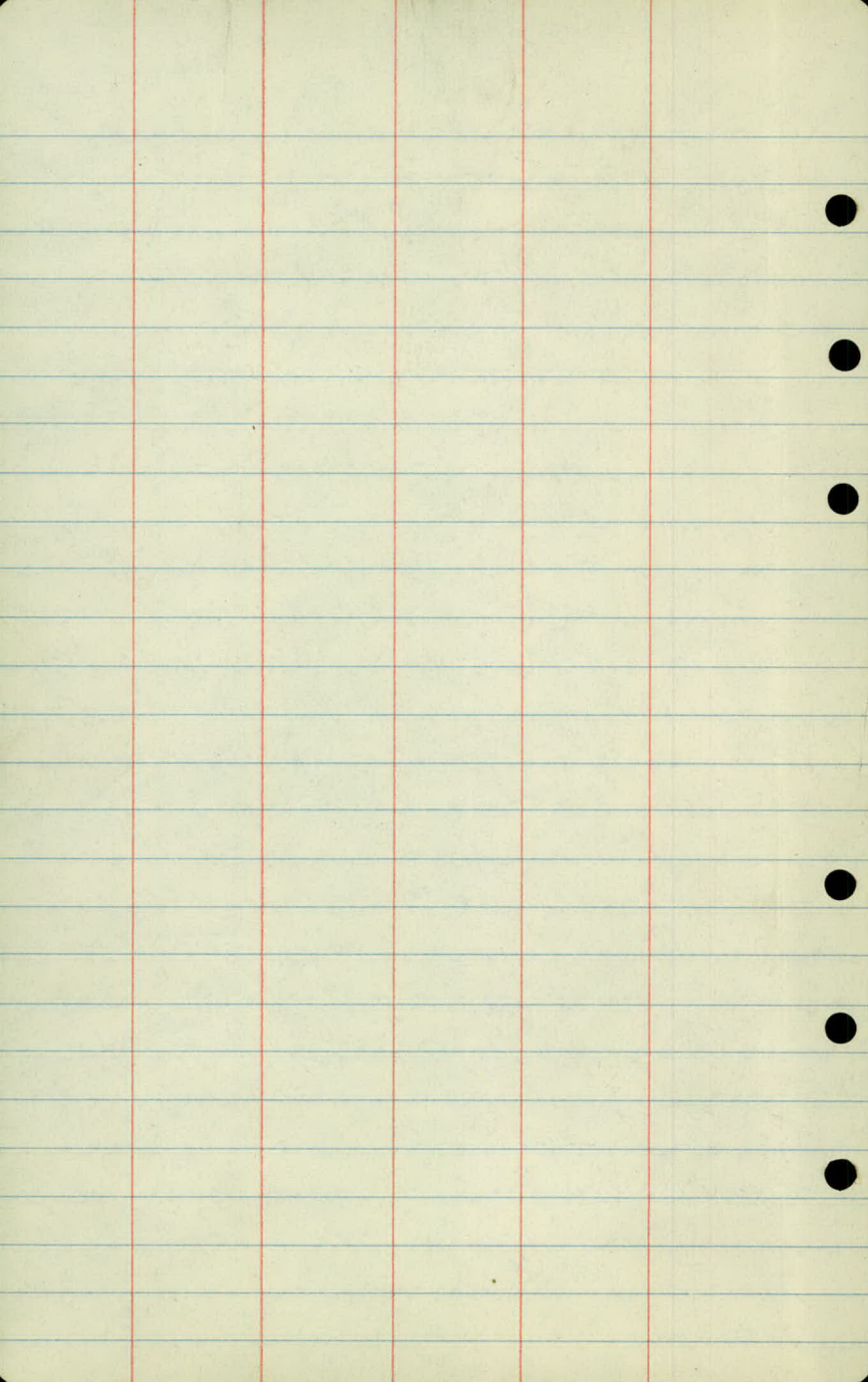
ctr. Sec. 34

89°33'

877.63'

89°33'

T30N R23W



Plan Survey

INGERSON ROAD

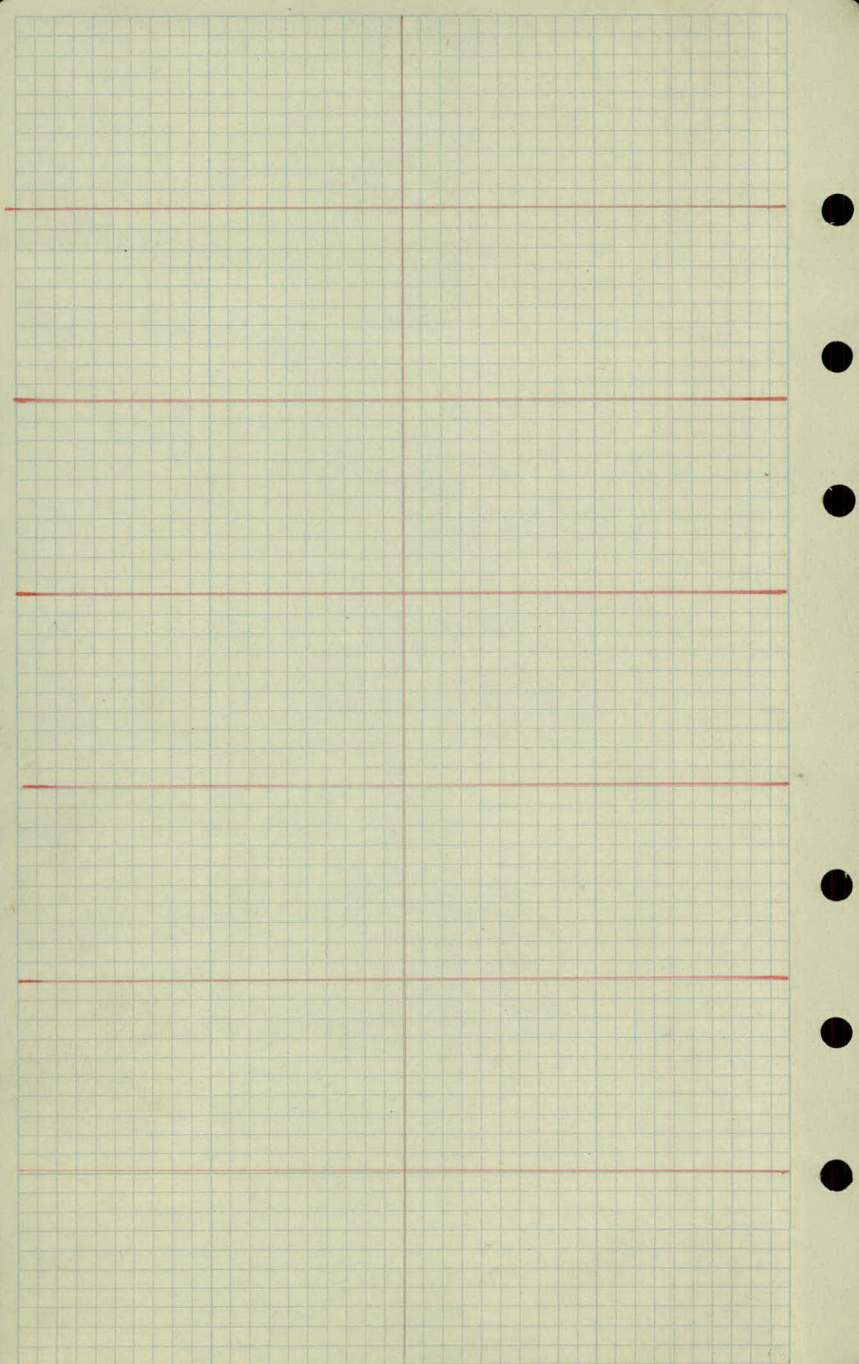
Hamline Ave. - East

INDEX

Align	- 1-2
Topog	- 3-5
X Sections	- 6-10

7-20-44

Work up 7/24/44
Hans.



Alignment

Sta.	Point	Alt.	Ref.
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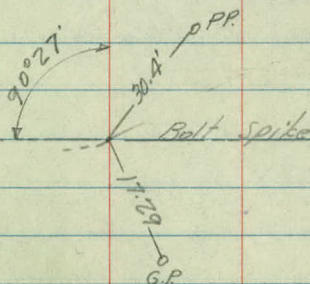
7	+35.0	P.O.T.	
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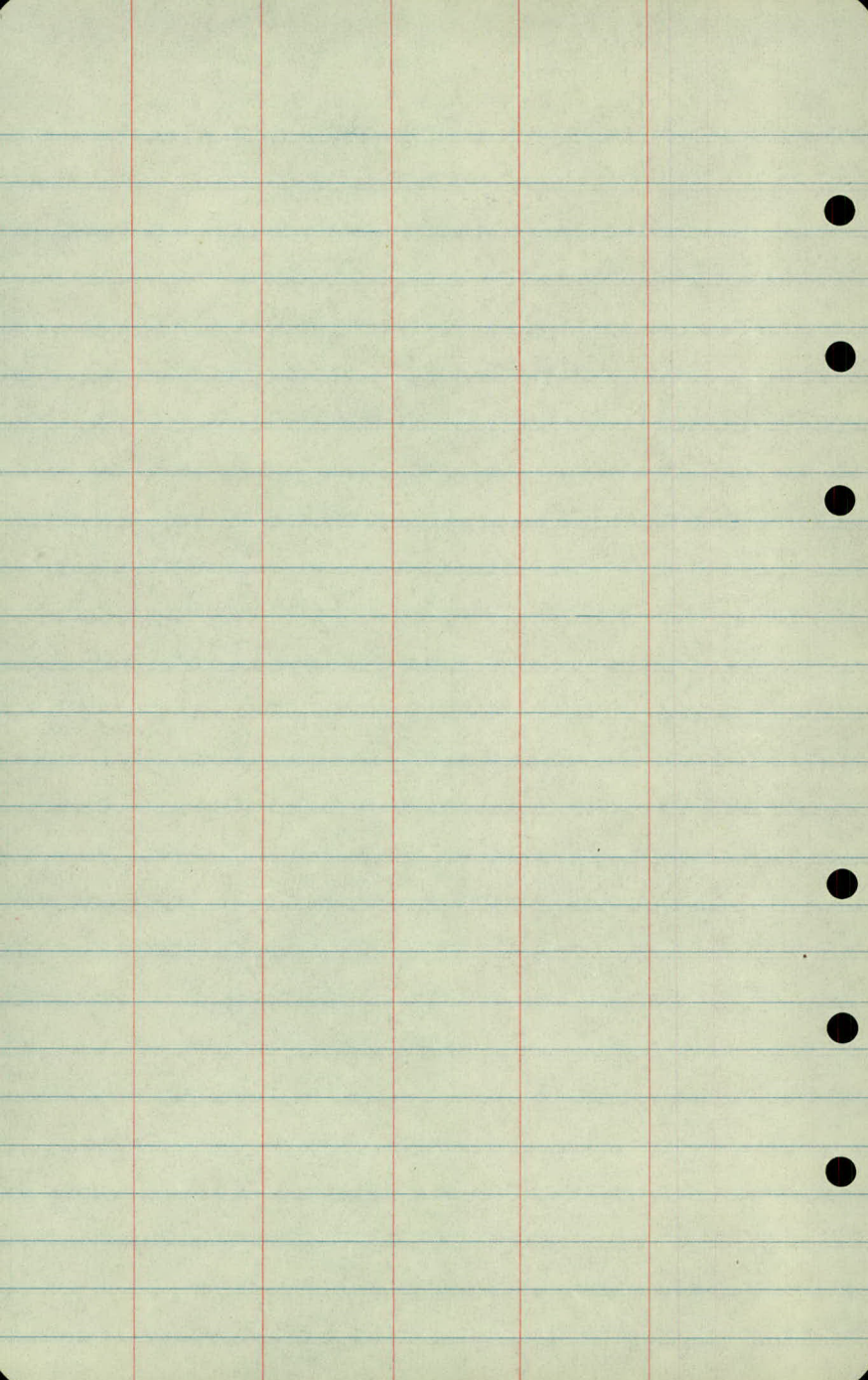
0 +00	= E Hamline Ave.		
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□ 2" x 2" Hub

ctr. sec 34

□ --- 877.63





Topography

+94-Ent.
186-24°0-36'
+83-12°0-35-8°0-42'
+69-Ent.
+62-Fe Cor 39-PP-53
+25-T.P. 10- +53-Ent.
+13-Fe Cor 35-38
+83-Ent.
Fc-4 Rd-13'-26'

4
+85-54°-5'
+76-54°-17' +6018" Oak-45'
+64-18°0-25'
+59-54°-00'
+51-18°0-31' Stump
+34-18°0-43'

+92 Fe Cor 92-112
+62-Fe Cor-38
+56-87° Pop 36 +55-12° Pop-38
+52-12°0-2' Stump

3
+90-12°0-9' +89-15°0-15'
+84-15°0-25' +87-18°0-9'
+73-18°0-22' +77-15°0-26'
↓
all stamps

+106-8°0-41'
Rd-13'-27' Fc-4'
+92-6°0-40'
+91-T.P. 9- +89-15°0-15'
+65-Cor. 35-41'
+50-Ent.
+43-Fe-34'

2
Fc-5 Rd-14'-28'

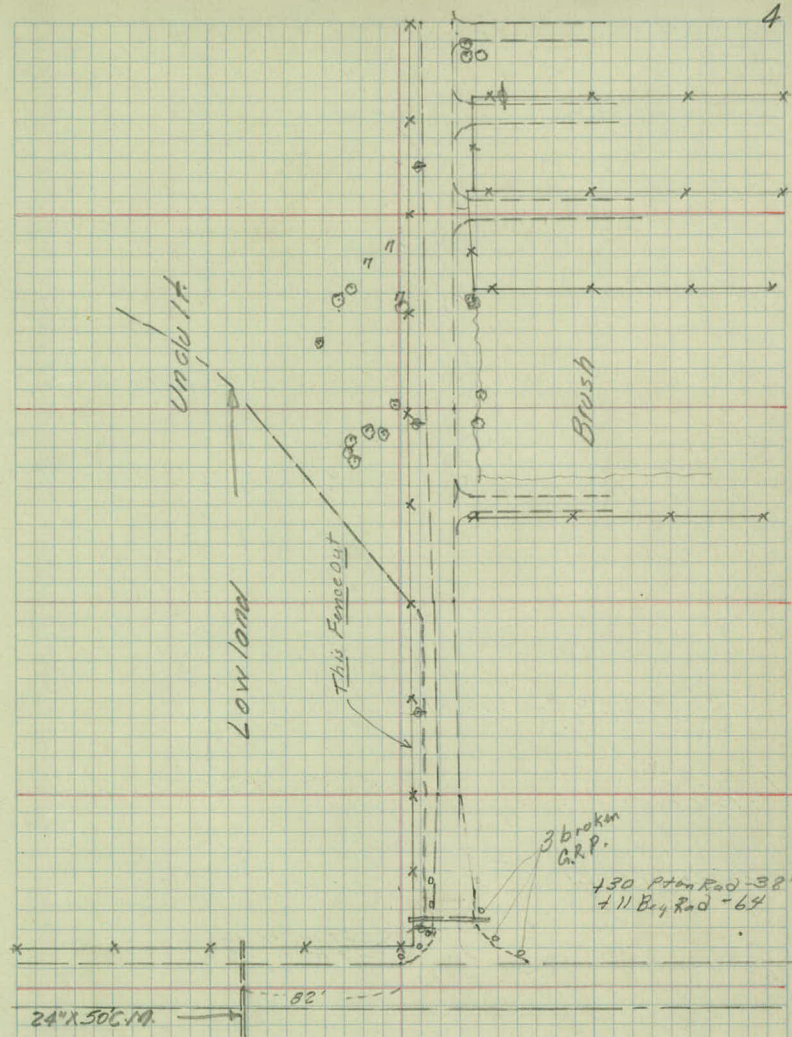
+42-PP+T.P. 9'

1
Fc-6 Rd-15'-30'
158 2nd G.R.P. -14'
+50 - Rd 15-38

+22 Big Fe N-16'
+29 P on Rad, G.R.P.-15' +35-15° C.M. 2-47' +Viton Rd.
+16 G.R.P. -00 +30 PP-10 Rd-16-30'
+11 Begin Rad-00 +21-Fe Cor-6'
+11 Edge of Bl. Top

0+00

- 11- Edge of Bl. Top



8

19 16

Fe - 30

+71-X Fe.N. - 27

+42 Ent - 50'

+35 Ent 12" C.M. - 73' low Ent - 112'

+35 Rd - 59' - 36'

+11 R Tie to Ent

+08 Fe cor - 30

7 +95 Lowland - 3' Rd - 41'

+87 R Tie to Fe

+59 Beg Fe - 32

+50 Lowland - 24'

+97 2" Lum - 19

+70 Fe cor - 30'

+58 Rd - 90

+35 Rd - 34' - 49'

+19 T.R. - 10' (archt pole)

+16 Rd - 0 - 15

14 - 13 - 26 Fe - 30

+78 Rd - 13' - 23'

6

+29 24" Pop - 32'

+16 Fe cor - 9 - 34'

Rd - 18' - 21'

13 - 27

Fe - 31

+59 Beg Fe - 32

5

+62 PP - 10' 171-Ent

+61 10" Pop - 33'

+37 18" Pop - 33'

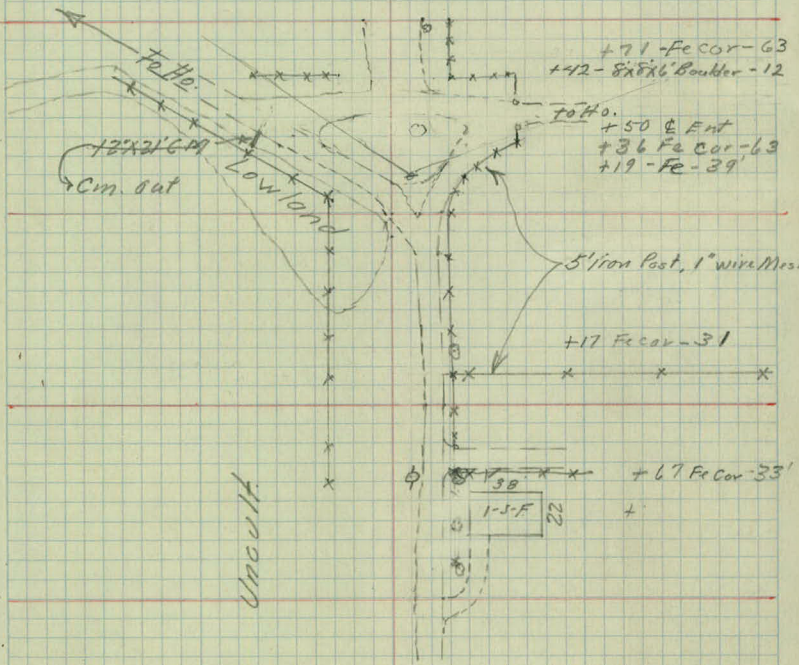
+35 Rd - 12' - 4'

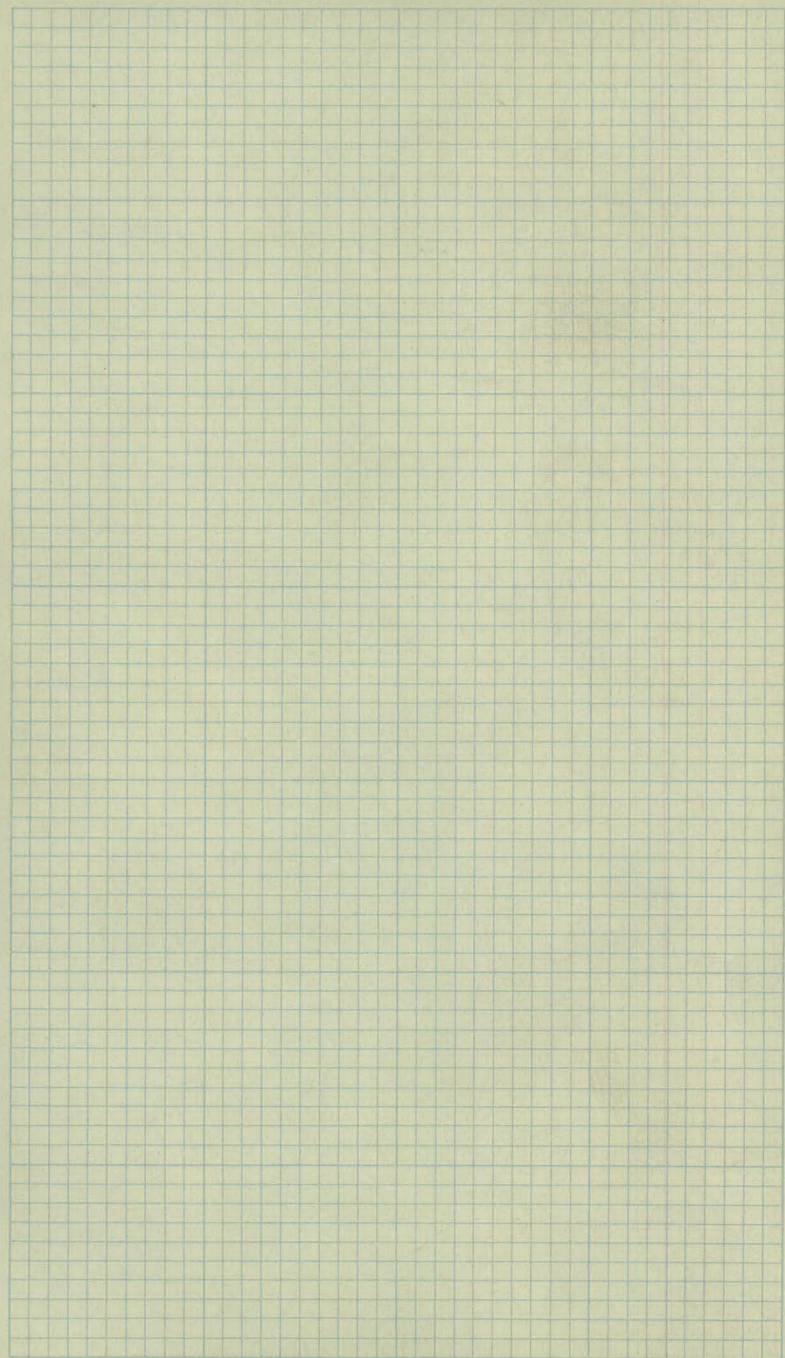
+32 NW Cor H.O. - 40'

+16 6" Piping Tr. - 34'

Fe - 6

Rd - 12' - 26'





X Sections

Sta	+	π	-	Elev	
B.M.	1.49	889.22			887.73 ✓
T.P.	4.81	889.66	4.37	884.85	
B.M.	5.01	889.09	5.58	884.08	

0 +00

83.6 .

+15

82.7 .

+20

80.3 .

+35

79.8 .

+70

80.0 .

1

80.1 .

+50

80.6 .

7-20-49
K.A.
L.C.
C.F.

7

Lt.

£

Rt.

E.R. Spt in 24" O. at Raddy's Ho. of Lake Josephine (Lake Imp.)
B.M.

Spt. in G.P. W. Side of Hamling Ave. at Ingerson Rd.

5.7 5.5 5.4
50 50

✓

6.7 6.4 6.0
50 50

✓

9.1 9.1 8.8 8.5 6.8 6.6 6.8 8.4 8.3
50 25 8 13 23 35 38 50

✓

9.3 9.3 9.3 9.4 6.8 7.0 9.1 8.8
50 25 12 15 30 32 50

culv

✓

9.2 9.2 9.1 8.8 7.5 7.1 8.6 8.5
50 25 10 12 30 33 50

✓

9.3 9.4 9.0 8.8 7.1 6.9 8.2 7.9
50 25 8 13 31 37 50

✓

9.1 9.2 8.5 8.2 6.6 6.4 7.5 6.7
50 25 9 13 30 36 50

✓

Sta	+	$\uparrow$	-	Elev
-----	---	------------	---	------

		889.09		
--	--	--------	--	--

2	+00			
---	-----	--	--	--

				82.1
--	--	--	--	------

	+40			
--	-----	--	--	--

				84.5
--	--	--	--	------

	+62			
--	-----	--	--	--

				85.4
--	--	--	--	------

T.P.	11.32	897.67	2.74	
------	-------	--------	------	--

				886.35
--	--	--	--	--------

3				
---	--	--	--	--

				87.0
--	--	--	--	------

	+30			
--	-----	--	--	--

				87.3
--	--	--	--	------

	+60			
--	-----	--	--	--

				88.0
--	--	--	--	------

4				
---	--	--	--	--

				86.5
--	--	--	--	------

	+30			
--	-----	--	--	--

				86.7
--	--	--	--	------

Lt.

£

Rt.

87 7.9 70 6.5 53 52 53 61 58 ✓
50 25 8 14 19 30 32 50

80 77 68 52 46 47 54 43 42 52 ✓
50 40 30 9 7 9 13 30 50

72 63 40 37 34 48 47 37 37 40 31 33 ✓
50 31 6 6 9 11 14 31 37 40 50

159 128 107 102 121 121 113 112 117 72 ✓
50 20 4 9 10 12 29 34 42 L.O.

150 127 111 104 100 117 111 107 111 50 L.O. ✓
50 27 9 5 8 12 28 33 40

130 121 108 97 94 110 107 112 70 60 ✓
50 38 17 6 9 28 33 40 50
28

115 122 121 112 109 104 104 115 ✓
50 32 8 08 13 26 50

89 95 108 110 103 97 100 120 L.O. ✓
50 33 10 6 13 29 38

Sta + π - Elev
897.67

4 +65

89.5 .

5

91.4 .

+30

93.1 .

+60

93.2 .

6

92.4 .

+18

92.7 .

+50

90.1 .

+85

88.5 .

Lt.

£

Rt.

63 79 82 83 87 84 86 100 103 ✓
50 21 6 9 14 27 41 50

42 55 63 60 60 68 ✓
50 22 7 29 50

2.7 37 43 46 47 44 53 ✓
50 32 8 14 29 50

36 40 45 44 39 41 33 ✓
50 19 11 12 30 50

50 47 46 53 58 53 52 75 ✓
50 32 10 11 14 27 50

7.2 6.1 50 50 6.0 7.2 75 ✓
50 33 6 22 40 50

86 88 76 63 58 63 73 86 ✓
50 21 11 21 28 32 50

88 96 92 62 60 67 83 88 ✓
50 35 4 17 26 34 50

Sta	+	π	-	Elev
		897.67		

7				91.1
---	--	--	--	------

+15				91.2
-----	--	--	--	------

+35				89.2
-----	--	--	--	------

+58				88.7
-----	--	--	--	------

Levels N + W in draw from
W end of 12" C.M.

B.M.			2.99	894.68
------	--	--	------	--------

T.P.	1.52	888.30	10.89	886.78
------	------	--------	-------	--------

B.M.			4.22	884.08
------	--	--	------	--------

T.P.	7.68	891.09	4.89	883.41
------	------	--------	------	--------

T.P.	4.31	889.15	6.25	884.84
------	------	--------	------	--------

B.M.			1.43	887.72	887.73
------	--	--	------	--------	--------

Lt

E

Rt

9.6 9.6 9.1
50 26 9

6.6 6.2 6.6 8.6 9.0
16 30 43 50

✓

9.6 9.2 7.3 6.6 6.5 7.0 6.7 7.1 8.4
50 35 25 19 16 23 42 50

✓

6.9 6.8 8.5 8.5 8.3 7.0 7.7
50 34 14 17 30 50

✓

9.5 9.0 9.0 8.4 7.4 6.9 6.5
50 25 29 50 75 100
Kent 5

✓

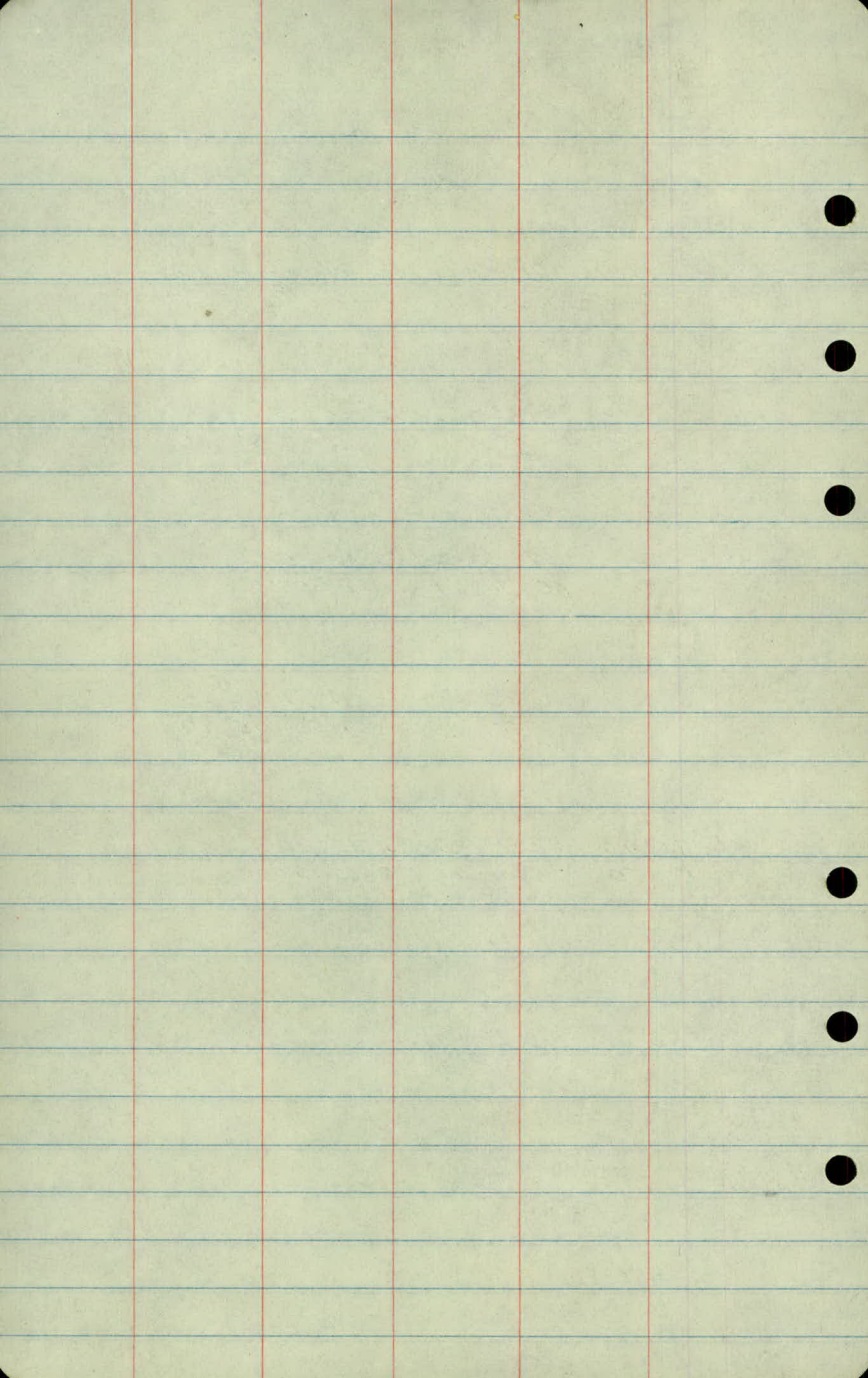
8.7 9.0 9.0 8.8 9.0 8.2 7.5 7.5 9.1
12' C.M. 10 50 100 150 200 250 300 350

darius

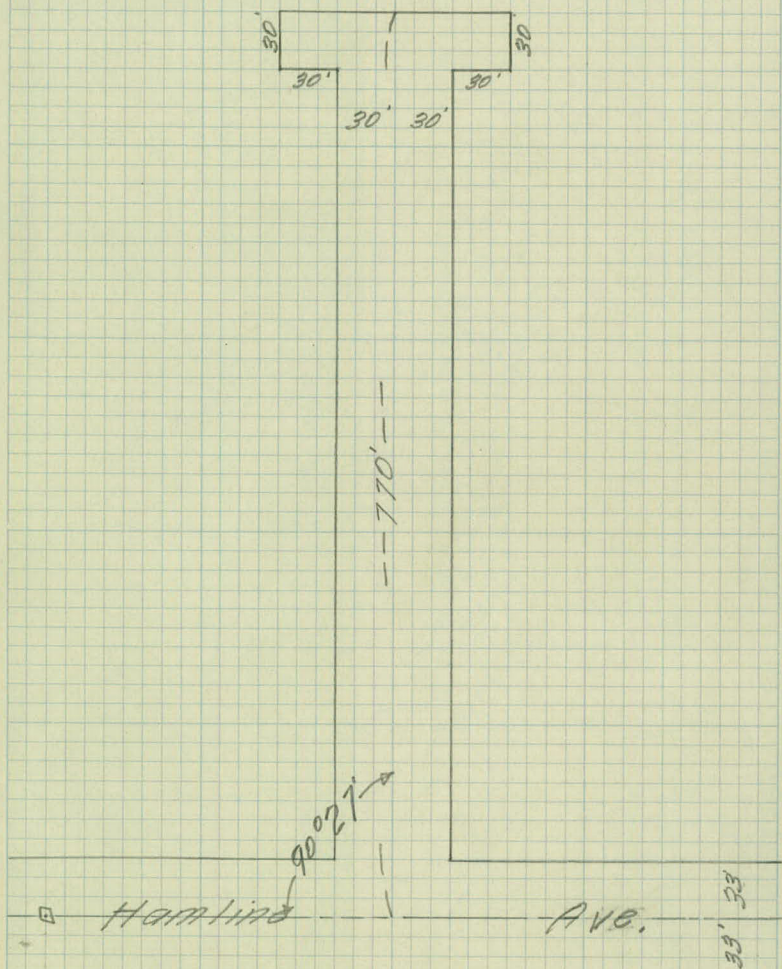
Spt in 18" Pop 33' Rt 5137

Spt in G.P. W Side Hamline + Ingerson Rd.

R.P. Spt in 24" O. Lake imp. Bench

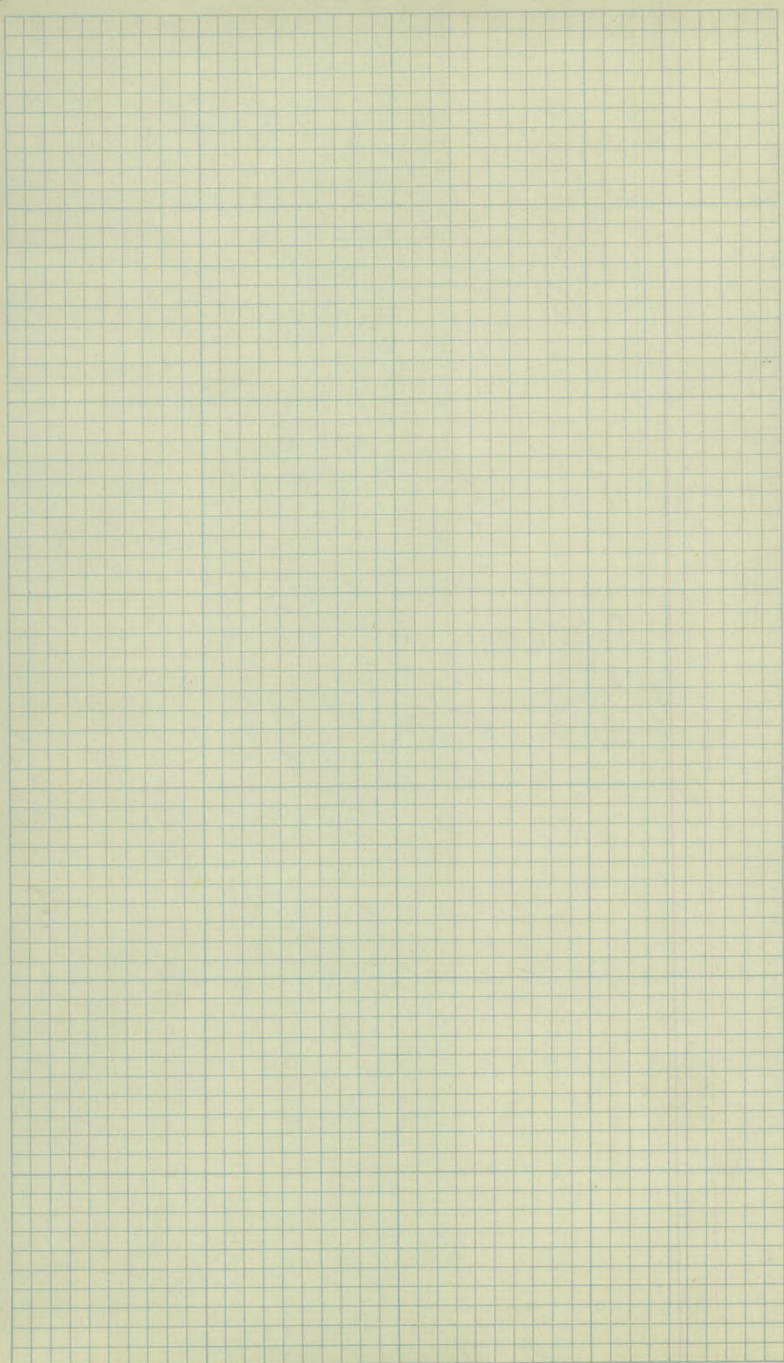


Staking Notes
INGERSON ROAD TURNAROUND



7-27-45

K.A.



INGERSON ROAD

X-Sections

Sta	+	Δ	-	Elev
BM	6.31	890.39		884.08
0+00	& HAYLINE			83.7
+15				83.1
+20				82.0
+36				79.7
+70				79.8
/				80.1
+50				80.6
2				82.2
+40				84.5
+62				85.5
JP	8.66	896.82	2.23	888.17
		896.83		888.17
				888.16

5-8-50

G.B.
A.M.
M.B.
B.C.

12

LT $\text{\textcircled{C}}$ RT

Spk. in G.P. W side of Hamline Ave @ Ingerson Rd.

7.7 7.0 6.9 6.7 6.6 6.6 6.5
150 100 50 50 100 150

7.6 7.5 7.4 7.3 7.2 7.1 6.7 7.2
50 43 19 7 30 50

10.6 10.5 10.2 8.4 7.3 6.7 7.5 7.4
50 27 10 8 26 47 50

10.3 10.6 10.7 10.5 10.1 7.0 6.7 7.3 9.3 10.5
50 25 2 4 13 24 37 43 47 50

10.6 10.7 10.6 9.7 6.9 6.7 7.1 9.8 9.7
50 25 6 13 23 30 38 50

10.6 10.6 10.3 10.1 7.6 6.7 7.1 9.2 9.2
50 25 3 11 21 31 36 50

10.6 10.6 10.3 9.8 9.7 7.0 6.6 7.0 8.6 8.0
50 50 21 4 13 21 29 37 50
25

9.9 9.2 8.2 7.4 6.5 6.2 6.3 6.5 7.3 7.1
50 25 10 15 20 27 30 34 50

9.4 7.6 6.4 5.9 5.8 6.5 6.5 5.7 5.4 5.6 6.4 6.5
50 25 9 7 9 11 13 20 31 41 50

8.7 8.4 6.1 4.9 4.6 5.9 5.9 5.1 4.9 5.0 5.4
50 44 16 6 7 11 13 22 31 33

4.7 4.2 5.2
50 40 37

STA

T

K

-

ELEV

896.82
~~896.83~~

3+00

87.1

+30

87.3

+60

88.2

4 +92

15" CM Lt

82.72

4

86.4

L

15.0 13.8 11.8 9.7 9.4 11.1 11.1 10.6 10.3 10.2
50 37 19 5 9 11 12 21 32

5.7 5.7 9.9
50 43 36

13.2 12.0 10.2 9.5 9.0 10.6 10.6 10.0 9.8 10.0
50 30 9 5 8 11 12 20 30

3.2 4.5 10.1
50 41 34

12.2 11.3 10.3 8.6
50 39 22

8.5 9.9 9.7 9.5
6 9 11 20

5.5 6.4 9.9 9.7
50 39 33 29

82.72
14.10
87

11.8 10.8 11.6
50 36 15

10.4 10.0 9.4 9.2 9.4 10.2
8 13 21 29 34

10.7
50

STA

+

T

-

ELEX

896.82
896.83

4 + 20

FL

15" Vit

+ 30

86.7

+ 65

89.5

5

91.1

+ 30

91.9

+ 60

92.1

6

91.9

+ 50

91.4

BM-213 14
94.70

£

83.46
13.36
39

9.5 9.6 10.1 9.3 8.7 8.6 8.9 11.0 11.4
50 27 8 12 20 28 38 50

8.4 8.7 7.3 7.3 7.4 7.7 7.4 7.2 7.6 8.7 9.5
50 30 22 6 9 11 21 27 33 50

£

7.0 7.5 8.1 5.9 5.4 5.7 5.2 5.6 5.2 5.6 6.1
50 41 30 20 12 = 6 12 20 30 50

6.6 7.0 7.5 5.2 4.8 4.8 3.9 3.9 3.7 3.8 3.5 4.1
50 36 30 20 12 3 7 13 21 28 30 50

6.3 6.8 5.2 4.9 4.7 4.6 3.0 3.5 3.2 3.2 2.8 3.1
50 30 22 12 3 11 13 21 29 39 50

6.0 6.7 5.3 4.9 4.9 4.8 4.6 4.2 4.4 4.4 4.5
50 32 22 11 11 13 21 29 32 50

6.0 5.8 5.6 5.4 5.1 4.8 4.8 5.0 5.2
50 33 19 9 17 24 30 50

STA	+	π 896.82 896.83	-	ELEV
-----	---	--------------------------------------	---	------

6+85				91.2
------	--	--	--	------

7				91.6
---	--	--	--	------

+15				91.6
-----	--	--	--	------

+35				91.6
-----	--	--	--	------

+58				91.4
-----	--	--	--	------

8				90.3
---	--	--	--	------

+50				89.4
-----	--	--	--	------

9				88.8
---	--	--	--	------

+50				88.7
-----	--	--	--	------

£

5.8 5.8 6.8 5.6 4.8 5.1 5.1 5.6 ✓
50 33 14 12 24 30 50

5.4 5.8 5.6 5.2 4.9 4.9 5.3 5.3 ✓
50 21 11 8 20 30 50

5.9 5.6 5.2 5.2 5.9 4.9 5.3 5.3 ✓
50 29 9 10 24 34 50?

5.0 5.1 5.2 5.2 5.1 5.0 5.4 ✓
50 39 20 13 33 50

5.2 5.2 5.4 5.4 5.3
50 24 36 50
24

6.5

7.4

8.0

8.1

STA	+	π	-	ELEV
-----	---	-------	---	------

896.82
~~896.83~~

10 + 00

88.5

BM

213

894.69

~~894.70~~

2

8.3

Spk in 18" Pop 33' rt @ Sta 5+37

STA

+

π

-

¹⁰
ELEV

Jagersson Rd.

Levels

0/00 = X Drain

Rec'd. 8-28-51
R.C.

drawn up.
mtce. job.

Sta.	+	-	Elev.
B.M.	9.77	109.77	100.00

West from cut

0	+00	6.8	102.97
---	-----	-----	--------

+50

1

+50

2

+50

3

+50

4

+50

5

L

E

R

Top North End of X Drain

03.0

6.8

02.3

7.5

02.0

7.8

02.3

7.5

01.5

02.5

01.7

8.3

7.3

8.1

01.5

02.3

01.6

8.3

7.5

8.2

01.6

02.3

01.5

8.2

7.5

8.3

01.9

02.5

01.7

7.9

7.3

8.1

01.9

02.4

02.0

7.9

7.4

7.8

01.7

02.6

01.9

8.1

7.2

7.9

01.6

02.5

01.9

8.2

7.3

7.9

sto. + π - Elev.

5 +50

6 Int

+50

7

+50

8

+50

going east

0400

+50

1

+50

L	E	K
01.7	02.6	02.0
8.1	7.2	7.8
02.0	02.5	01.9
7.8 - 2	7.3	7.9
02.2	02.8	02.2
76 - 2	7.0	7.6
	02.8	
	7.0	24
	03.2	
	66	
	63.8	
	60	
	04.4	
	54	
	04.8	
	5.0	
	07.4	
	2.4	
	11.0	
	+ 1.2	

