

Bk. 5 - Dr. 16

OFFICE OF COUNTY ENGINEER
RAMSEY CO. MINN.

_____ Drainage Survey

_____ EDGERTON ST. _____

From Soo Line Ry. To 450' West
" " " " " 400' North

Road Acc't. No. _____

Date Filed 10-26-39 _____

File _____

DRAINAGE SURVEY

South West Corner

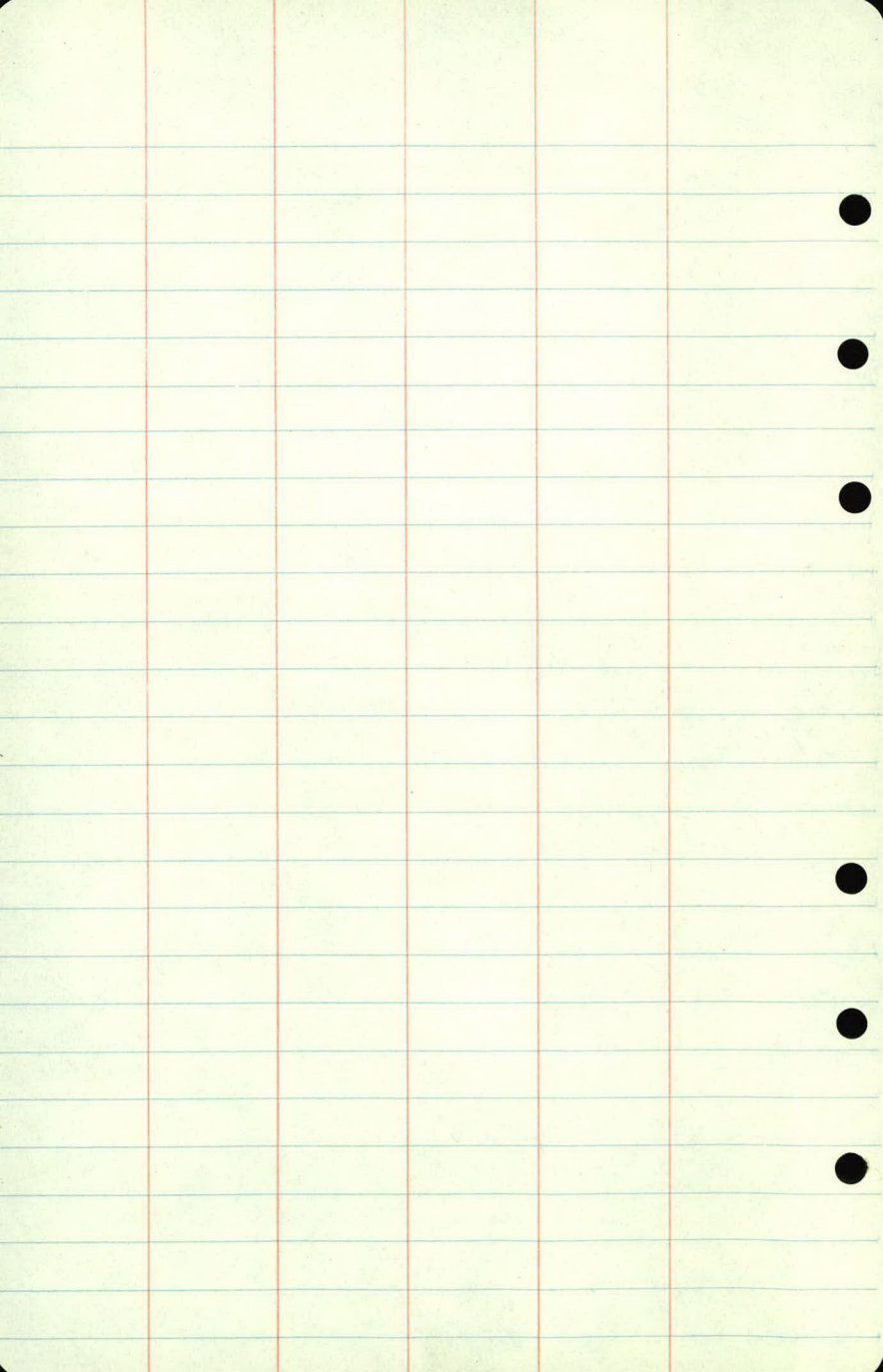
See Line R.R. & Edgerton St.

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Topog. - 1-4

Xsections - 5-8



Alignment

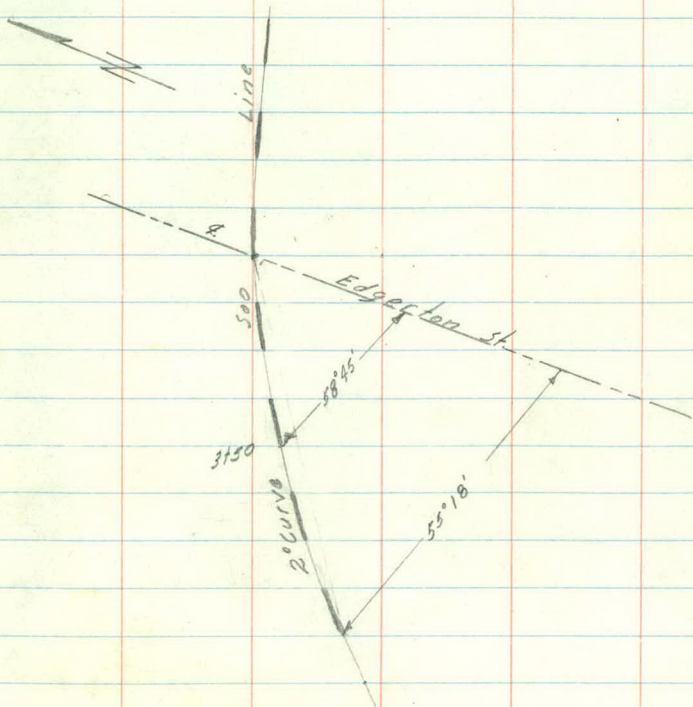
Sta	Point	ΔLt	ΔRt
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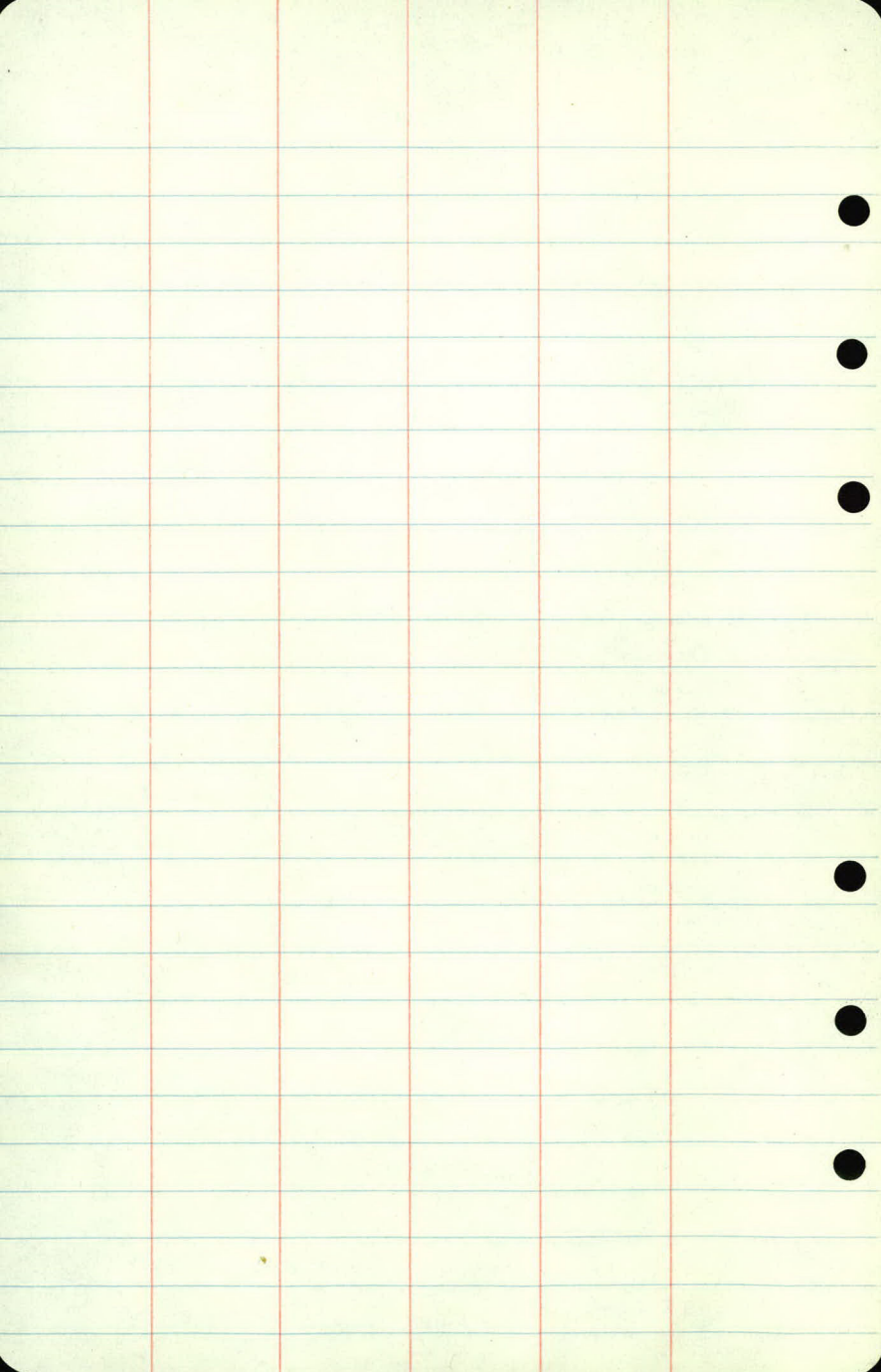
4	+50	P.O.C. = L Edgerton St.	
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0	+00	P.O.C.	
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10/2/39
K.A.
L.G.
M.B.
M.d.G.

2





Topography

+78' End - 15" C.M. - 25'
 +74' Ctr. 3" Dia. Control Box - 18'
 +63' End - 18" C.M. - 31'
 +62' 2" B. Base of Signal Ring - 16'
 +44' End 12" C.M. - 47'
 +19' End Gr. Rail - 23'
 +13' End 12" C.M. - 25'
 +13' End 30" Iron Culv. - 24'

+11' End 30" Iron Culv. - 23'

+92' End 30" - 47'

+67' Group 5 - 6" B. E. N. - 46"
 +47' Group 5 - 6" B. E. N. - 50"
 +43' 5" Trip B. E. N. - 50"

+50' End FC - 49'

FC - 50'

+50' FC - 48'

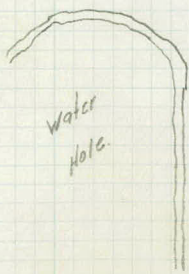
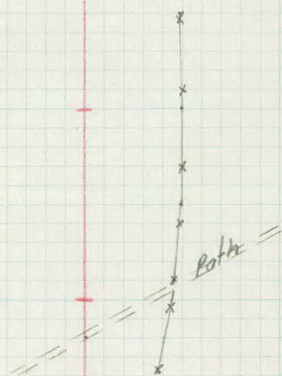
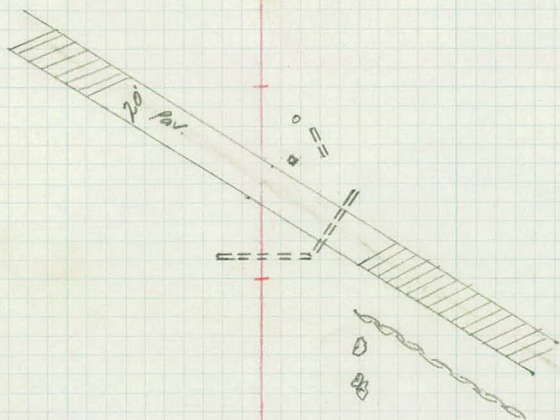
+25' 6" B. E. N. - 46"
 +07' G. A. - 45'

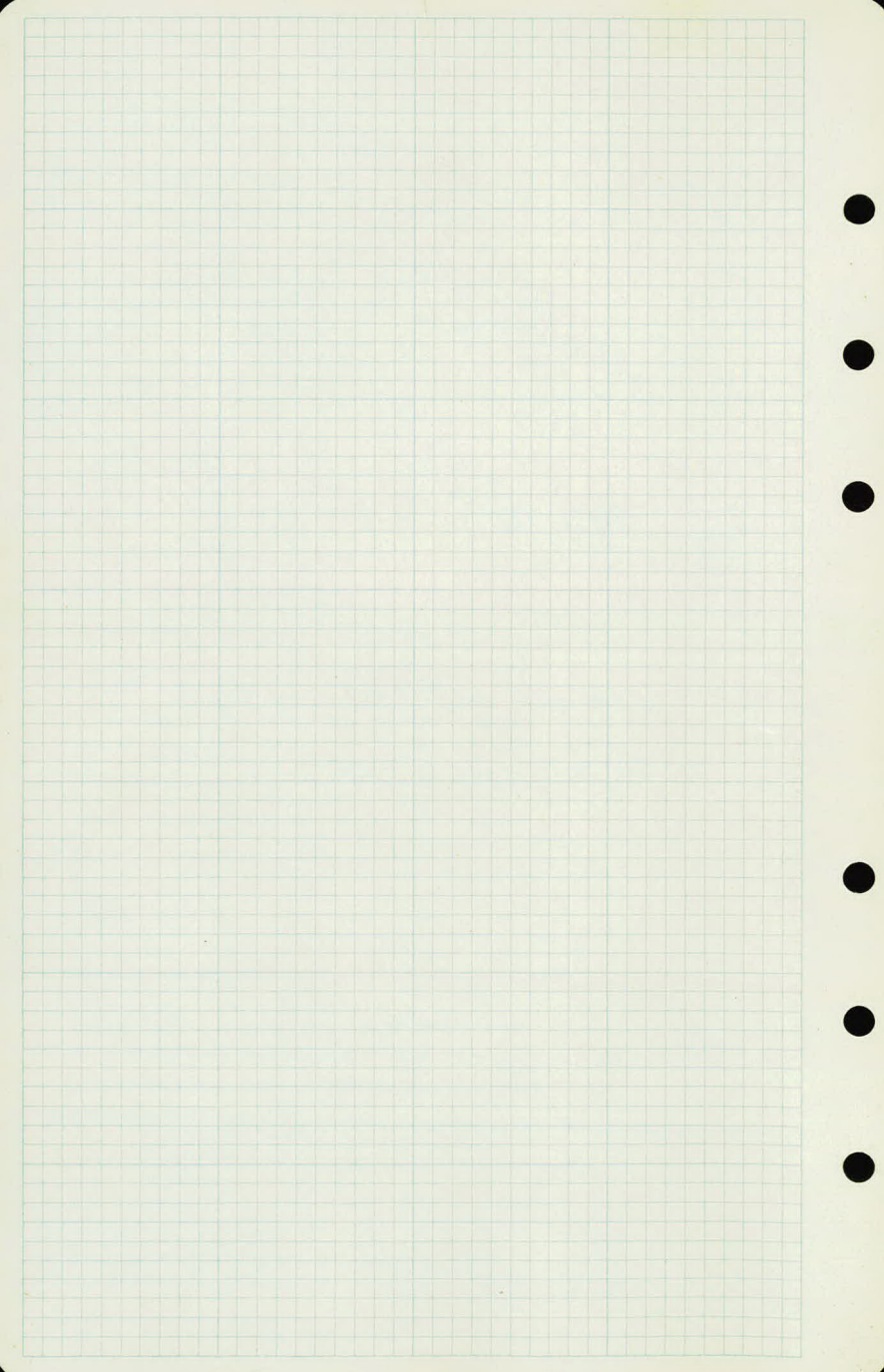
+80' Path 15 A

+62' B. E. N. FC - 38'

0+00 Edgewater - 31'

Edgewater - 27'





x sections

Soo Line RR + Edgerton

Sta	+	-	Elev.
B.M.	1.59	881.15	879.56

0	+00		75.6
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	+42		76.1
--	-----	--	------

	+63		76.4
--	-----	--	------

	+90		76.7
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1	+45		77.1
---	-----	--	------

2			77.2
---	--	--	------

	+123		77.30
--	------	--	-------

	+66		77.4
--	-----	--	------

3			77.3
---	--	--	------

	+50		77.4
--	-----	--	------

4			77.27
---	--	--	-------

Lt.

L

Rt.

Top Hyd. 150' N. of Track & Lt side of Edgerton St.

65.35 64.15
56.519 61 66 158 170
 top rail 4' 8' 22' 27' + Top water

68.35
51.467 53 57 67 115 128 117
 4 8 13 22 32 50

71.65
48.442 50 54 91 95 73 78 53 51
 4 8 18 21 29 32 38 50

73.8
45.409 46 59 50 42 40 35
 4 11 19 25 36 50

75.8
41.365 43 48 59 54 48 38 30
 4 8 10 13 15 32 50

77.1
40.351 41 41 38 41 40
 4 8 9 29 50

78.3
39.347 41 46 44 59 58 49 51
 4 8 16 24 31 38 50

78.4
55.58 51 51 37 319 38 349 41 50 111 118 102 53
 50 36 29 19 4 4 15 26 30 47 57 L.O.

77.2
87.90 83 44 40 37 323 39 350 42 44 53 124 134 126 91 72 40
 50 27 19 12 9 4 4 9 13 27 34 40 47 64 72

71.0
102.102 97 45 37 321 38 353 42 49 55 104 109 97 71 35
 50 25 19 10 4 4 8 13 24 35 46 50 58

71.5 72.6 73.0 72.4 73.2 72.7
97.86 82 85 80 85 42 37 313 388 339 41 43 48 66 70 67 36
 50 36 29 27 25 16 9 4 4 8 14 20 28 34 50

Yard
 60'

Sta	+	π	-	Elev.
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881.15

4 +11

+13

+18

77.4

+50 Along Edgerton St.

+46

+63

+78

5

T.P.	4.37	882.02	3.52	877.63
------	------	--------	------	--------

+50

77.95

6

77.84

+50

77.86

4A

2

et

70.6 ~

10.53
F.L. CULV.

73.59

73.88

7.56
F.L. 30°C u/v

7.27
F.L. 12^u C.M.

72.4

<u>56</u>	<u>8.6</u>	<u>8.8</u>	<u>79</u>
59	48	33	26

$$\frac{76}{22} \quad \frac{75}{18}$$
$$\frac{4.2}{10} \quad \frac{3.}{4}$$

306 3

$$\frac{3.31}{\underline{\quad}} \quad \frac{3.9}{\underline{\quad}}$$
$$\frac{41}{8} \quad \frac{34}{12}$$

77.95 77.99 78.10
Top Rail

Top Rail

$$\begin{array}{r} 920 \\ \hline 29 \end{array} \quad \begin{array}{r} 316 \\ \hline 8 \end{array} \quad \begin{array}{r} 305 \\ \hline 50 \end{array}$$

75.22

5.43
End 12^u Vif.

76 5' 5"

4.60
F.L. 18" C.M.

76.30

4.85
FL 18° 17'

77.95'

76.9

320
Горько!

4.3
Gutter.

4.07

5.7 76.3

A.14

5.9 76.1

9.16

6.1 75.9

Sta	+	π	-	Elev.
		882.02		
7				77.92
	+50			77.92
8				78.10
	+50			78.13
9				78.12
	+50			78.06
10				78.04
11				78.12
12				78.02
	+50	Low Point		73.97
T.P.	4.97	883.08	3.91	878.11
B.M.			3.57	879.51
				879.56

Lh

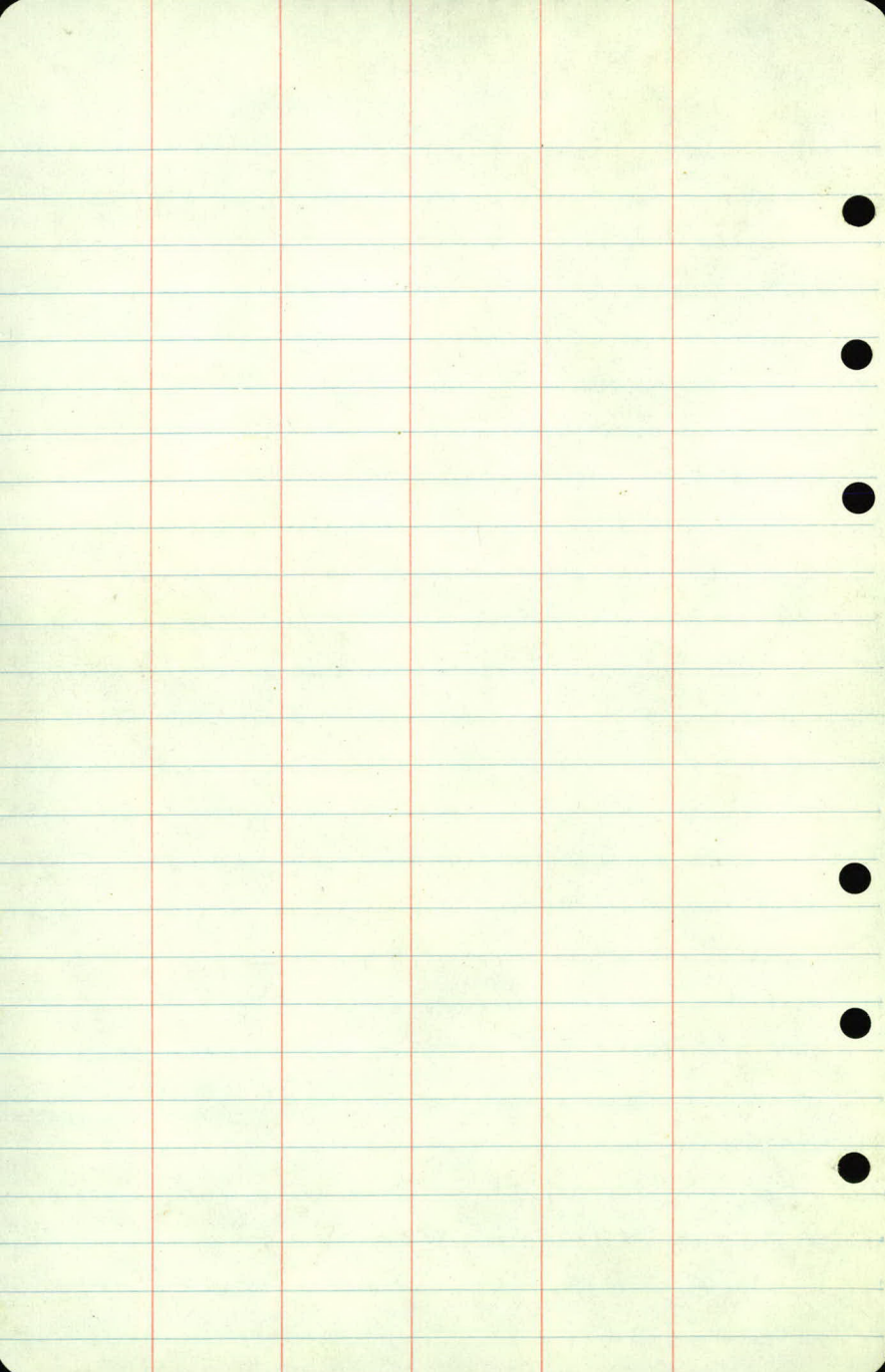
4 Top Rail

Rt

Gutter

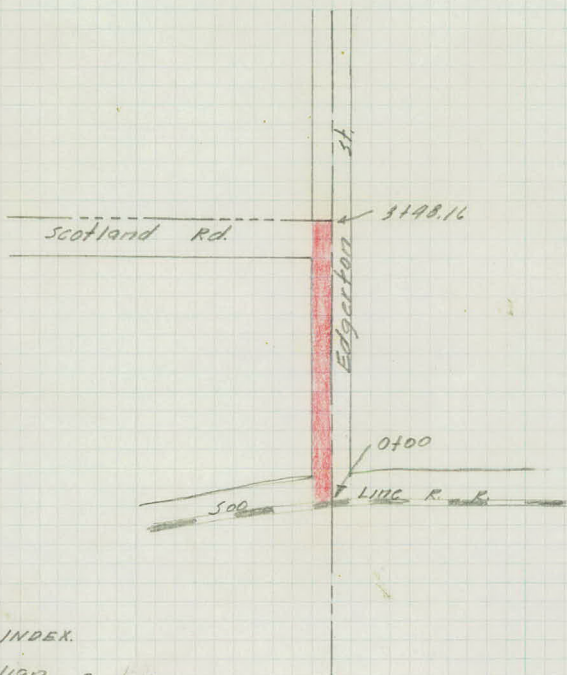
4106.0 76.04966.2 75.83925.8 76.23895.8 76.23905.9 76.13966.8 75.23986.0 76.03905.2 76.8909.5 72.540512.1 69.9

Top Hyd. 150' N. of Track & W. side of Edgerly St.



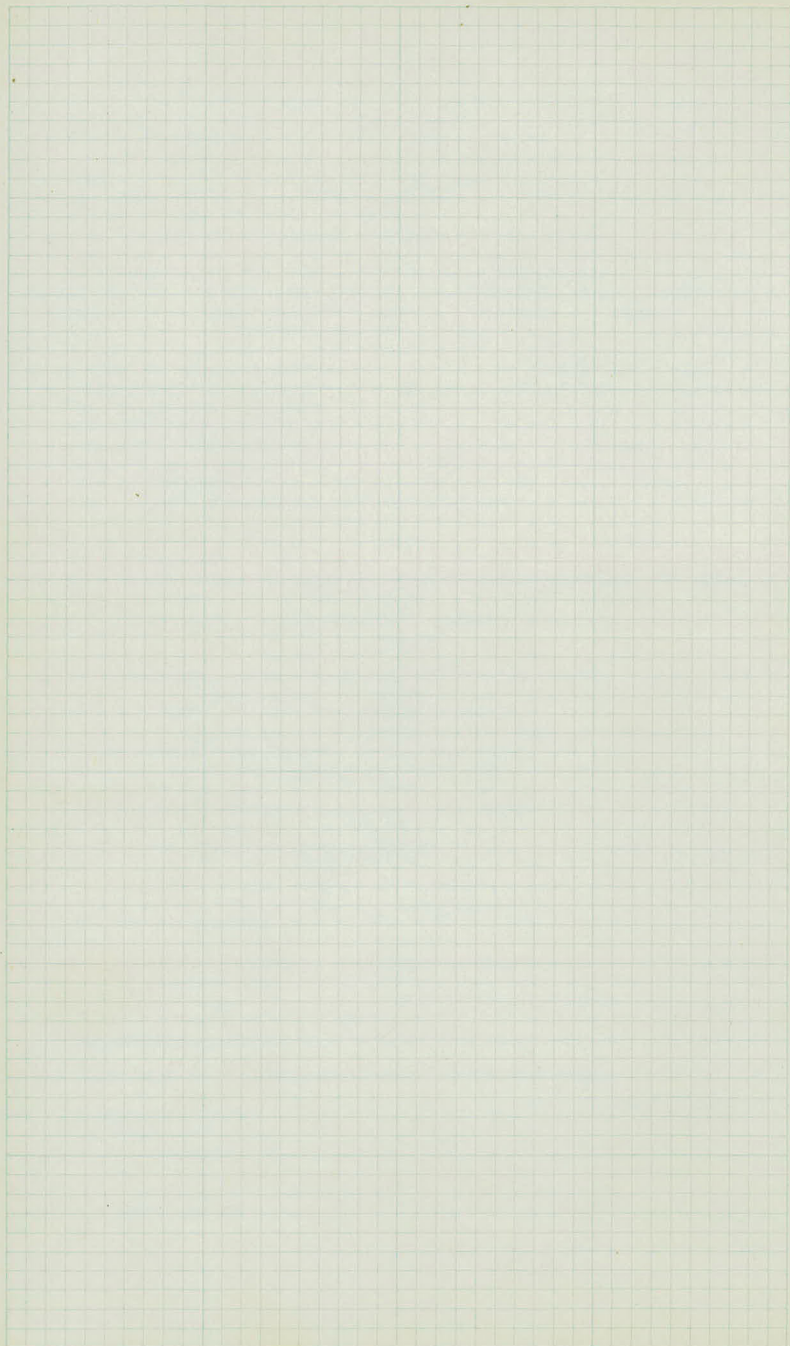
~~Not touched~~
WJB

DRAINAGE SURVEY
Edgerton St.
500 Line Tracks to Scotland Rd.



INDEX.

Align - 1-2
Topog. - 1-2
Xsections - 3-5



10/27/29
K.H.
L.C.
M.O.E.
M.B.

1

Topography

5

4

+56-Cor. G.R. -15'

+24-Δ in G.R. -20'

+17-Δ in G.R. -15'

+11-RP-18'

3

+64-6" Tile -39'

+75-12" B.E. -40'

+84-8" B.E. -36'

+27-8" Fur B.E. -40'

+22-End Fg + Bsq. G.R. -16'

+18-Δ in Fg -32'

2

+91-Bsq. Fg -32'

+88-Hydr. -16'

+81-Water Valve -9'

+80-RP-19'

+42-S.E. Cor. Ho. -103'

+87-Ent.

+30-End Fg -32'

+25-8" Trip. B.E. -26'

+19-Fg. Cor. -34'

1

+81-8" R. Walk -39'

+18-Rubble Wall -33'

+72-Ent.

+66-N.E. Cor. Ho. -95'

+86-15" Elm -50'

Shut off Valve -24'

+96-15" Elm. -56'

+47-RP-20'

+14-T.P. -28'

+02-N. End 24" Iron Culv. -45'

0+00

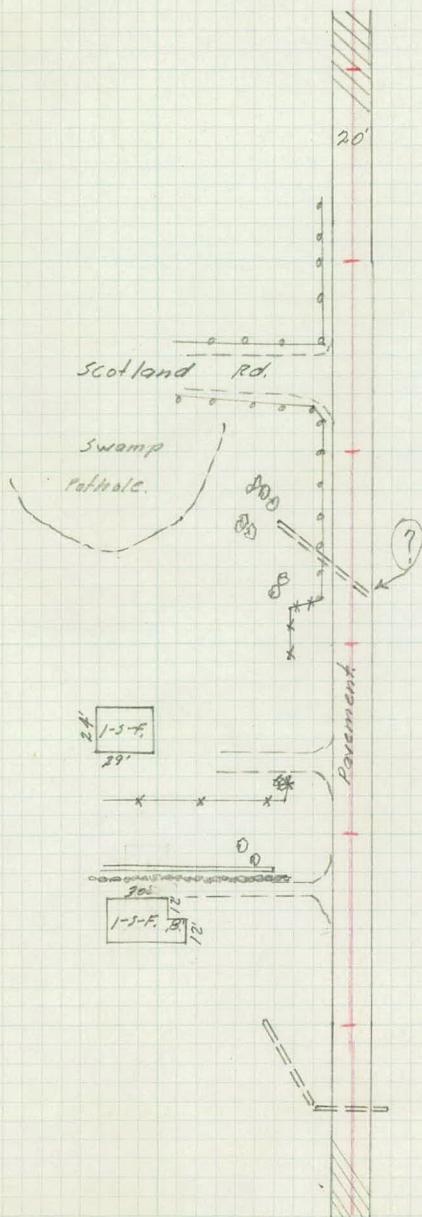
-31-End G.R.

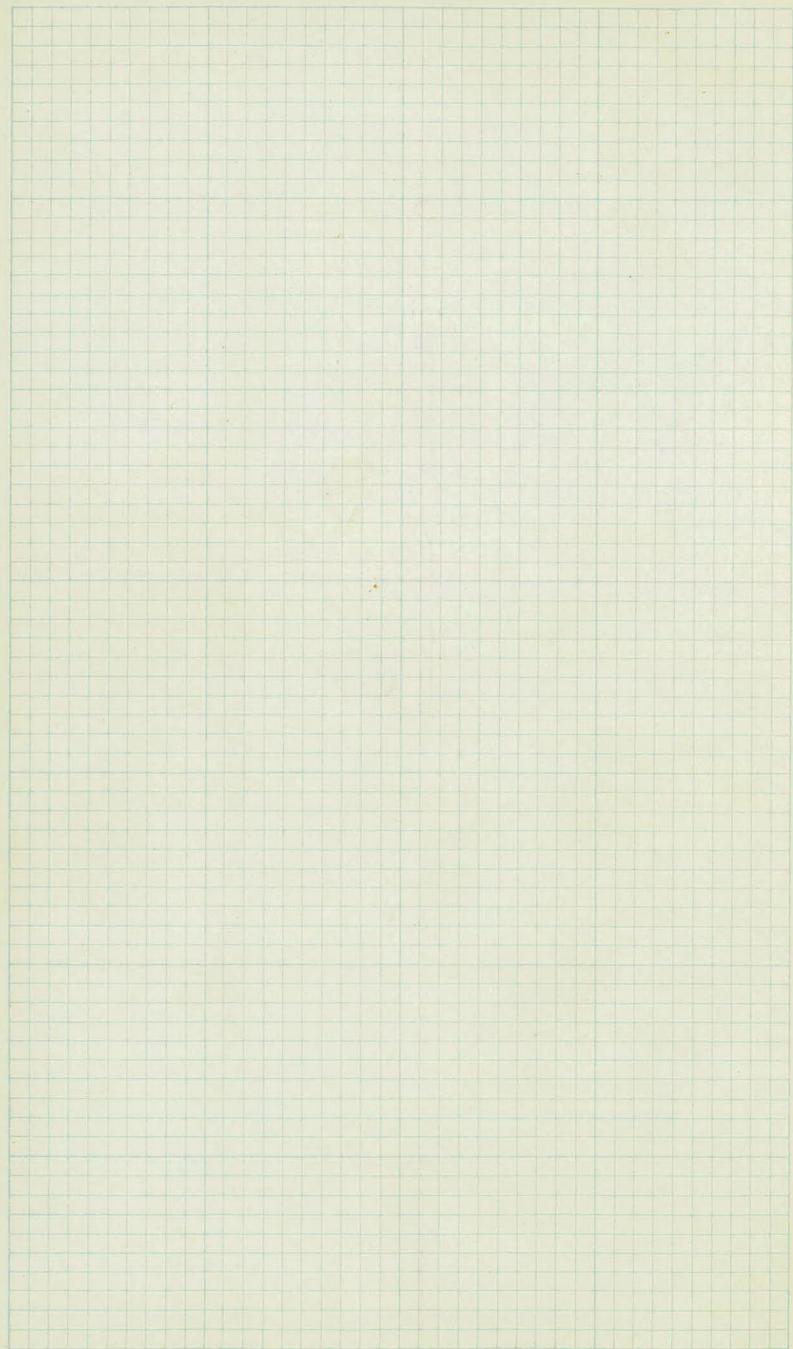
-41-S. End 24" Iron Culv. -20'

-42-End 12" G.I. -19'

-44-End 12" Vit. -19'

-89-G.R. -15'





X sections

Sta.	+	π	-	Elev.
B.M.	296	882.52		(879.56)

0 -44 Flow Line 12" vit. Lt

-42 Flow Line 12" C.M. Lt

-41 Flow Line 24" Iron Culvert

0 +02 78.2

+26 78.06

+32 78.03

+63 77.93

+78 Top Wall 77.87

+78 Bottom Wall 77.87

1 77.75

+19 77.67

Lt.

L

Rt

Top Hyd Lt. sta. 1488

$$\frac{660}{75.92}$$

$$\frac{863}{73.89}$$

$$\frac{893}{73.59}$$

(Low Point)

$$\frac{115}{110} \frac{107}{81} \frac{100}{53} \left(\frac{1137}{\text{CULV}} \right) \frac{91}{45} \frac{89}{38} \frac{81}{30} \frac{47}{18} \frac{417}{10} \frac{43}{}$$

$$\frac{108}{100} \frac{105}{50} \frac{94}{36} \frac{76}{26} \frac{50}{18} \frac{456}{10} \frac{496}{}$$

$$\frac{82}{100} \frac{72}{57} \frac{59}{22} \frac{50}{15} \frac{457}{10} \frac{449}{}$$

$$\frac{72}{44} \frac{68}{40} \frac{55}{52} \frac{467}{21} \frac{459}{10}$$

$$\frac{797}{100} \frac{787}{65} \frac{715}{44} \frac{637}{33} \frac{57}{25} \frac{471}{10} \frac{465}{}$$

$$\frac{91}{100} \frac{90}{65} \frac{82}{44} \frac{70}{33} \frac{57}{25} \frac{471}{10} \frac{465}{}$$

$$\frac{90}{100} \frac{93}{55} \frac{86}{37} \frac{78}{27} \frac{71}{22} \frac{51}{16} \frac{482}{10} \frac{477}{}$$

$$\frac{91}{100} \frac{94}{43} \frac{76}{30} \frac{74}{21} \frac{54}{15} \frac{492}{10} \frac{485}{}$$

Sta.	+	π	-	Elev.
		882.52		
1	+26			77.57
	+66			76.78
	+81			76.45
B.M.	0.15	879.71	2.96	879.56
2				75.97
	+31			75.20
	+66			74.33
3	+14			73.06
	+30			72.66
B.M.		0.15		879.56 (879.56)

Lt

R

Lt

$$\begin{array}{r} 79 \quad 76 \quad 49 \quad 76 \quad 76 \quad 55 \quad 502 \quad 495 \\ 100 \quad 69 \quad 31 \quad 27 \quad 21 \quad 16 \quad 10 \quad \hline \end{array}$$

$$\begin{array}{r} 79 \quad 79 \quad 77 \quad 70 \quad 84 \quad 76 \quad 59 \quad 581 \quad 574 \\ 100 \quad 69 \quad 37 \quad 31 \quad 26 \quad 21 \quad 15 \quad 10 \quad \hline \end{array}$$

$$\begin{array}{r} 12.1 \quad 12.7 \quad 11.5 \quad 10.0 \quad 6.8 \quad 6.9 \quad 6.4 \quad 7.7 \quad 6.2 \quad 6.15 \quad 6.07 \\ 100 \quad 74 \quad 64 \quad 51 \quad 37 \quad 30 \quad 26 \quad 21 \quad 16 \quad 10 \quad \hline \end{array}$$

$$\begin{array}{r} 13.8 \quad 13.8 \quad 11.8 \quad 6.6 \quad 5.6 \quad 3.8 \quad 6.3 \quad 5.7 \quad 4.0 \quad 3.77 \quad 3.74 \\ 100 \quad 83 \quad 67 \quad 46 \quad 38 \quad 32 \quad 27 \quad 21 \quad 15 \quad 10 \quad \hline \end{array}$$

$$\begin{array}{r} 19.7 \quad 18.6 \quad 15.0 \quad 8.2 \quad 7.0 \quad 7.6 \quad 7.6 \quad 4.7 \quad 4.58 \quad 4.51 \\ 100 \quad 75 \quad 60 \quad 38 \quad 30 \quad 27 \quad 22 \quad 16 \quad 10 \quad \hline \end{array}$$

$$\begin{array}{l} \text{(Edge 22.4)} \\ \text{(Water 88)} \end{array} \begin{array}{r} 21.3 \quad 19.8 \quad 17.6 \quad 15.2 \quad 13.2 \quad 5.4 \quad 5.47 \quad 5.38 \\ 77 \quad 61 \quad 42 \quad 37 \quad 34 \quad 15 \quad 10 \quad \hline \end{array}$$

$$\begin{array}{l} \text{(Edge 22.4)} \\ \text{(Water 67)} \end{array} \begin{array}{r} 18.7 \quad 14.7 \quad 7.0 \quad 6.73 \quad 6.65 \\ 45 \quad 26 \quad 15 \quad 10 \quad \hline \end{array}$$

$$\begin{array}{r} 18.6 \quad 13.8 \quad 9.9 \quad 7.6 \quad 7.17 \quad 7.08 \\ 100 \quad 64 \quad 33 \quad 16 \quad 10 \quad \hline \end{array}$$

Top Hyd. Lt. Sta. 1488

Sta

+

π

-

Elev

Grade Stakes
Storm Sewer
Edgerton St.
at

So. Line Tracks

Sta	+	T	-	Grade
B.M.	0.90	880.46		879.56
				870.74
0	+00			70.73
	+25			70.68
	+50			70.63
	+75			70.58
1				70.53
	+25			70.48
	+50			70.43
	+75			70.38
2				70.33

9-17-40
K.A.
L.C.
M.B.

Cut on
stakes
5' off foot.

Gr. Red

Top Hyd. Lt. Sta. 1188

= Flow Line Culv. Under R.R. Tracks

9.73

6.23
+3.5

9.77

7.08
+2.7

9.78

9.79

4.03
+5.8

9.83

9.88

4.68
+5.2

9.93

5.23
+4.7

9.98

4.98
+5.0

10.03

4.23
+5.8

10.08

5.08
+5.0

10.13

5.93
+4.2

