

Dr. 9 Bk. 9

OFFICE OF COUNTY ENGINEER
RAMSEY COUNTY, MINN.

Profile Survey

Ditch # 17

From White Bear Ave. To Wakefield Lake

Road Acc't. No. _____

Date Filed 2-6-59

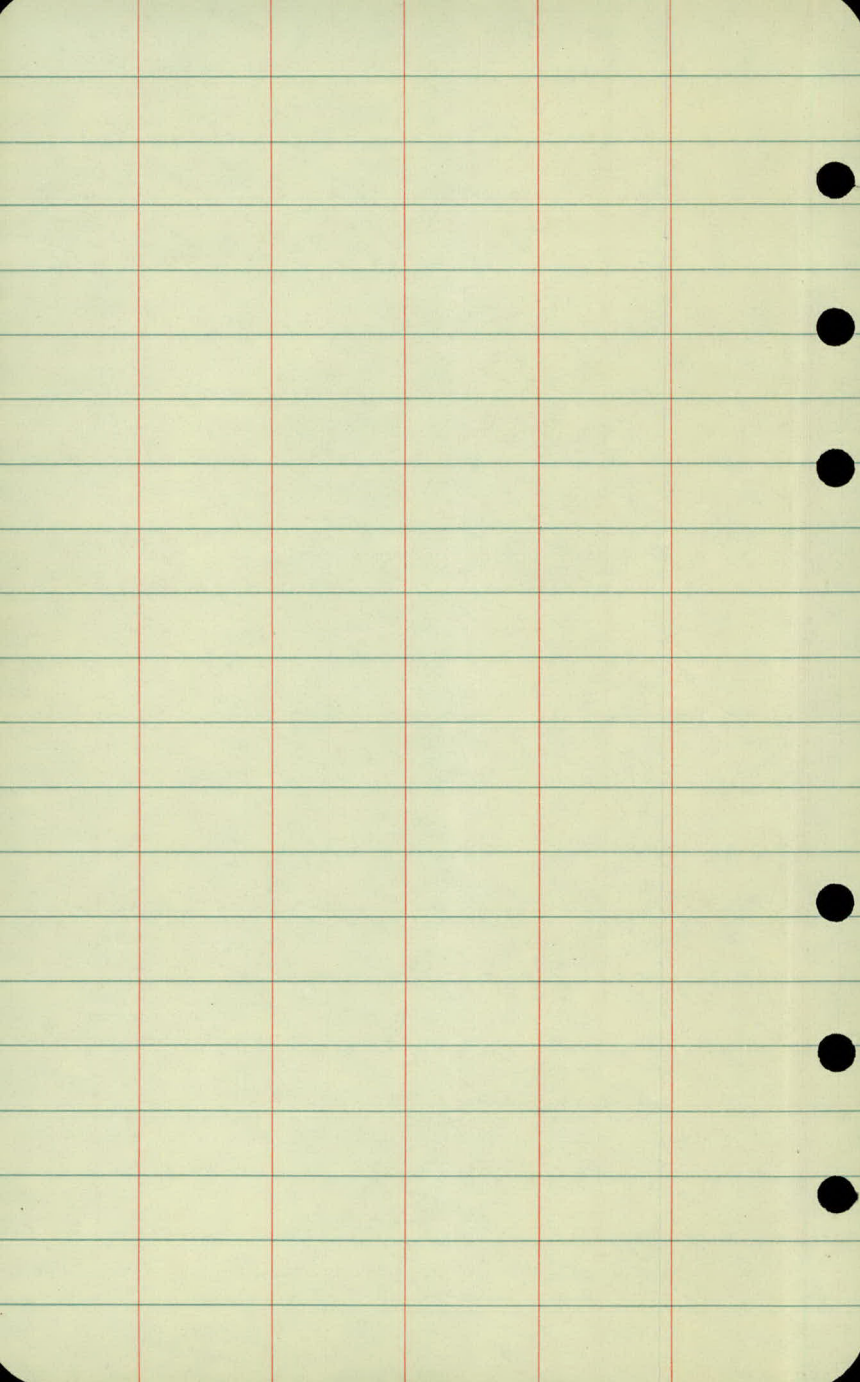
File Dr 9 Bk 9

Dr. 12 Bk. 63

DITCH NO. 17

Profile Levels.

INDEX		PAGE
From	To	
1954 R.R. Tracks	Frost Ave	1 to 5
1954 Frost Ave	Wakefield Lake	6 to 13
1956 Frost Ave.	Wakefield Lake	13 to 17
1957 R.R. Track	North and East	18 to 21
1958 R.R. Track	Toward Frost Ave.	22 to 26
1958 In Swamp East of White Bear Ave.		27-28



Ditch #17

B.R. Tracks to Frost Ave

Profile

5 pages

Drawn up
April 1, 1954

Sta + π - Elev.

BM 3.48 926.29 (922.81)

T.P. 0.12 912.78 13.63 912.66

0+00 Top Headwall

+00 "C.M. South End

Water Surface 12.41 900.37

+00 Profile

+12

+18

1

TP 5.59 911.17 7.20 905.58

FK
AM
LC
MMc

March 30, 1954
270 Snow Flurries
E

2

Top N.W. Cor. Cons. Fe. of Central Box at S.E. Cor. Soo Trk.
+ White Bear Ave.

Top Nat. Breather Pipe E. End

00.08

4.70

00.48

97.98 = F.L.

12.30
Top F.L.

Dr 8 Bk 160 - 24" CM
R 660 - 30" Pipe

98.9

13.9

00.8

12.7

99.8

13.0

99.4

13.4

06.1

6.7
15

Sta + x - Elev

911.17

2

+10 Pile of Brush in ditch

3

4

5

6

7

TP 1.67 908.87 3.97 907.20

~~2~~

99.0

03.2

12.2

8.0

12

99.1

05.6

12.1

5.6

14

98.8

05.8

12.4

5.4

15

99.2

06.6

12.0

4.6

16

99.1

04.0

12.1

2.2

10

98.7

07.7

12.5

3.5

20

Sta + π - Elev.

908.87

8

9

10 Edge of Pond

12+70 Edge of Pond

+74 On Dam (Undermined)

TP 6.22 906.32 8.77 900.10

Water Sur face on Pond 2.72 98.60

13

£

4

98.0

05.6

10.9

3.3

12

97.6

04.2

11.3

4.7

11

97.4

99.1

11.5

9.8

97.07

97.07

11.8

99.97

9.4

06.3

97.0

0.0

9.3

8

Sta + K - Elev
906.32

14

15

16

17

+43

19+25 S. End S.C.P. X-Drain Frost Ave.

+43 Top N End "X 182' S.C.P.

TP 5.53 910.61 1.24 905.08

TP 1.74 908.83 3.52 907.09

BM 9.34 899.49 (899.45)

2

02.0

97.0

4.3
8

9.3

01.0

97.3

5.3
9

9.0

98.6

97.0

2.7
8

9.3

00.1

96.9

6.2
8

9.4

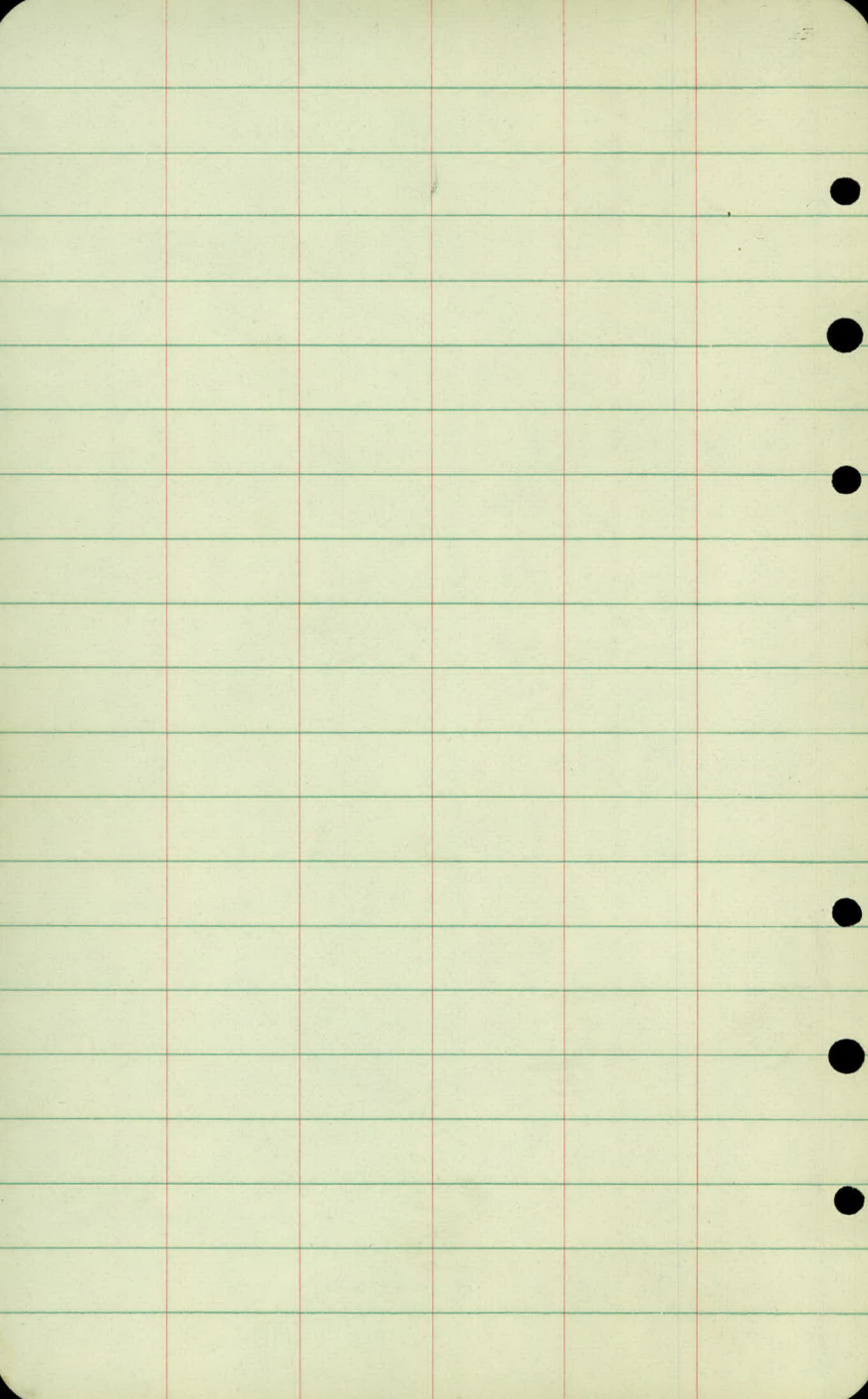
97.1

9.2

98.42

2.90

Top Mont at Hazelwood & Frost Ave



Ditch #17

Profile

8 pages

Sta	+	π	-	Elev
BM	10.02	909.47		(899.45)
TP	3.16	909.94	2.69	906.78
	0.79	905.42	5.31	904.63

Water Surface 7.39 898.03

19+25
0+00

+26
0+01

20+25
1

21+25
2

22+25
3

FK
AM
MMc

March 29, 1954
Clegg 250
£

27

Top Mont. at Hazelwood & Frost Ave.

97.06

8.36
Top F.L.
of Culvert



95.9
9.5

95.9	00.8
9.5	4.6
	10

95.9	00.6
9.5	4.8
	10

95.3	00.2
10.1	5.2
	10

Sta + π - Elev

905.42

23+25

4

24+25

5

TP 5.67 905.75 5.34 900.08

Water Surface

7.25

898.00

24+61

5+36 E. End Culvert

+92

+67 C.B. 14' Lt.

25+30

6+05 C.B. 14' Lt.

25+55

6+30 W. End C.M. Culvert

4

95.9

00.4

9.5

5.0
10

96.5

00.1

8.9

5.3
10

96.82

00.9

8.93
Top F.L.

4.9
10

96.50

00.65

9.25
F.L.

5.10
TOP

C.B.
M'

96.49

00.62

9.26
F.L.

5.13
TOP
C.B.
14'

96.98

8.77
Top C.M.

8+90
6+30
2 48

Sta + π - Elev.

905.75

25 + 56
6 + 31

25 + 75
+ 50

Dirt in Ditch

26 + 25
7

+ 75
+ 50

27 + 25
8

+ 75
+ 50

~~9~~

96.1

9.7

97.6

00.0

8.2

5.8

8

96.5

96.7

9.3

6.1

8

95.8

10.0

95.4

98.7

10.4

7.1

7

95.0

10.8

Sta + π - Elev.

905.75

28+02

8+77

28+03

+78 E. End 30" x 88' CM

TP 4.88 907.49 3.14 902.61

28+25

9

shoulder

+45

+20 E Prosperity Ave.

+66

+41

shoulder

+90

+65 W. End 30" x 88' CM

2

94.6

11.0

94.09

11.66
FL

05.7

1.8

05.98

1.51

05.0

2.5

93.89

13.60
FL

Sta + π - Elev

907.49

28 +91

9+66

29+25

10

TP 3.46 899.85 11.10 896.39

+75

+50

30+25

11

+75

+50

31+25

12

~~2~~

94.7

12.8

98.3

94.2

9.2
11

13.3

93.7

6.2

95.6

92.1

4.3
8

7.8

90.6

2.3

92.6

88.6

7.3
8

11.3

Sta + Δ - Elev

899.85

31+75

12+50

TP 9.02 895.16 13.71 886.14

32+25

13

+75

+50

+88

+63 E. End 24"x20"CM Culvert Undermined

+91

+66

33+06

+81

12
7

2

88.0

11.9

91.1

85.2

4.1

10.0

13

85.0

10.2

84.79

10.37

11.37

FL

24'CM

87.7

7.5

87.2

8.0

Sta + X - Elev

895.16

33 + 08

13 + 83 W. End 24" x 20" CM (Undermined)

33 + 25

14

+78

+53 Lake Shore Water surface

BM

2.63 892.53 (892.58)

Top C.B. E 3.04

27
905.70
72

900.63

Top C.B. W 5.10

900.62

} Many Knobs

22

+50

23

FA
LC
AB
JM

April 20, 1936
Clear 41°

13
8

84.28

10.88

83.1

12.1

83.38

11.78

Top Headwall & Culvert N. Side Ent. to Playground
at Wakefield Lake

4/20/56

96.0

9.7

✓

96.0

9.7

✓

96.2

9.5

✓

Sta + π - Elev.

905.70

23+50

24

+50

+61 E. End Culvert

+61 Water Surface

+92 CB 14' Lt.

25+30 CB 14' Lt.

25+55

April 29, 1956

147

96.2

9.5

96.6

9.1

97.5

9.2

97.04

8.66

Top

Culvert

96.0

9.7

ground

98.15

7.55

90.66

5.04

Top

98.15

7.55

Water
Surface

90.6

5.10

Top

98.15

7.55

Water
Surface

Buried

Top

Culvert

98.1

7.60

Water
Surface

97.4

8.3

Ground

Sta + π - Elev

905.70

+75

26+25

+75

27+25

+75

27+97

28+03 E End 30" X 88' CM

9 15
2.5

TP

1.00

906.40

3.30

902.40

£ April 20, 1936

15
10

98.1

7.6

✓

96.7

9.0

✓

95.9

9.8

✓

28103
25155
248

95.5

10.2

✓

28122
25155
2167
25
2142

95.3

10.4

✓

89.05

11.65

94.7

11.0

Ground

✓

Sta + π - Elev

906.40

28+90 W. End 30" x 88' CM

29

+50

30

892.58

T.P. 2.68 895.39 13.49 892.91

+50

31

April 20, 1956

15
#

96.42	94.8
9.98	11.6
Top	Ground
30" x 88" cm	



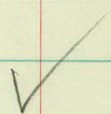
95.2
11.2



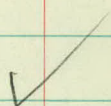
94.0
12.4



92.6
13.8



91.8
3.8



90.5
5.1



Sta + π - Elev

895.59

31+50

32

+50

+88 E. End 24" x 20' CM

33+08 W. End 24" x 20' CM

+50

+78 Water Surface 12.72 892.67

BM

3.06 892.53 892.58

April 20, 1936 17
72

£

88.6

7.0



86.4

9.2



85.4

10.2



84.8

10.8

84.71

10.88

FL



84.06

11.53

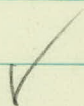
FL



Black Top Ditch to
Lake

83.44

12.15



Top Headwall £. Culvert N. Side Ent to Play ground

Sta + π - Elev

34

White Bear Ave

Drainage From to "B"

3 pages

Note:

Even if Ditch and Culverts
were Cleaned They would
not Drain as the Ditch South
of The Tracks is washed
Full of Dirt

Sta	+	-	Elev
BM	6.29	913.72	907.43

42+61	14.5	99.2
-------	------	------

42+61	16.34	97.38
-------	-------	-------

+61	14.7	99.02
-----	------	-------

+61	4.5	09.22
-----	-----	-------

+61	16.20	97.02
-----	-------	-------

+61	14.7	99.02
-----	------	-------

+61 = 0+00 ditch	15.0	98.7
------------------	------	------

June 27, 1957

19
2

FK
XP
JD
RL
SR

Top of N.E. Cor. No. End of East Wing Wall
It sta 40+43

Ground at E End of X-Drain

FL 36" X Drain E. End

Water Surface at Culvert E. End

White Bear Ave

FL W End X-Drain

W. S at West End X-Drain

± Ditch at End Culvert W. End

Sta	+ $\frac{\$}{\pi}$ Ditch	- Elev
	913.72	

0 + 50	15.9	97.8
--------	------	------

1	15.0	98.7
---	------	------

+ 25	14.6	99.1
------	------	------

+ 50	14.9	98.8
------	------	------

2	14.7	99.0
---	------	------

+ 12	14.6	99.1
------	------	------

+ 24	14.3	99.42
------	------	-------

+ 24	^{13.2} 15.7	98.02
------	-------------------------	-------

+ 24	14.7	99.0
------	------	------

June 27, 1957

20
8

M. S. at Culvert

FL 30"

Ground at Culvert

Sta	+	π	-	Elev
BM	3.11	910.54		907.43

Ditch

1+64

11.4 99.14

1+13

11.6 98.9

1+00

11.38 99.16

2+20

11.18 99.36

2+10

11.2 99.34

White Bear

A2+61

11.51 99.03

A2+61

13.15 97.39

Plotted
7/9/57

Top of NE Cor. No End of E. Wing Wall at Sta 40443

Water Surface

Water Surface

Ground

Note: Water is Running
from South to North under
RR Tracks also Water
is Running West to East
Under White Bear Ave

Water Surface at E. End X-Drain

	99.1	98.8	98.7	98.7
FL 36" CM	11.4	11.7	11.8	11.8
Distance From E. Culv. →	12	31	39	50

	98.3	98.5	98.4	98.7
	12.2	12.0	12.1	11.8
	100	85	76	64

Sta + π - Elev

BM

42+61

FX
HP
AB

April 30, 1958

27
f

Ditch #17

R.R. Tracks to Frost Ave

Profile

Sta	+	π	-	Elev	
BM	0.53	923.34			(922.81)
T.P.	3.55	914.27	12.62	910.72	
0+00			6.20	908.07	
TP	4.00	908.25	10.02	904.25	
0+00		2.80	10.30	897.95	✓
+00			8.92	899.33	
+00			9.4	98.9	
+10			2.3	01.0	✓
+12			2.6	00.7	✓
+18			81	00.2	✓
+47			84	99.9	✓

April 30, 1958

23₂

Top N.W. Cor Conc. Fo. of Control Box at S.E.

Cor Soc Tracks & W.B. Ave.

Top of Headwall

F.L. S End 30" CM

Water Surface in Pipe

profile

Ditch Draining in from West

Sta + π - Elev

908.25

0 + 79 7.7 00.6 ✓

1 + 00 6.7 01.6 ✓

+ 50 6.9 01.4 ✓

+ 80 7.3 01.0 ✓

2 7.9 00.4 ✓

+ 50 8.6 99.7 ✓

3 8.7 99.6 ✓

4 8.9 99.4 ✓

5 9.0 99.3

TP 2.77 906.09 4.93 903.32

April 30, 1958 24
3

Profile

Sta	+	Σ	-	Elev
		906.09		
5+80			6.6	99.5 ✓
5+90			6.0	00.1 ✓
6			6.2	99.9 ✓
+50			6.0	00.1 ✓
7			5.9	00.2 ✓
+50			5.6	00.5 ✓
+6.8		Page 5		
8			5.6	00.5 ✓
+50			6.5	99.6 ✓
9			7.5	98.6 ✓
TP	4.42	908.66	1.85	904.24

April 30, 1958

25
4

Profile

Begin New Ditch

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

		908.66		
--	--	--------	--	--

9+38				
------	--	--	--	--

			10.7	98.0 ✓
--	--	--	------	--------

+70				
-----	--	--	--	--

			12.35	96.31 ✓
--	--	--	-------	---------

7+68				
------	--	--	--	--

			7.18	01.48
--	--	--	------	-------

TP	10.51	911.00	8.17	900.49
----	-------	--------	------	--------

			2.94	908.06 908.07
--	--	--	------	---------------

April 30, 1958

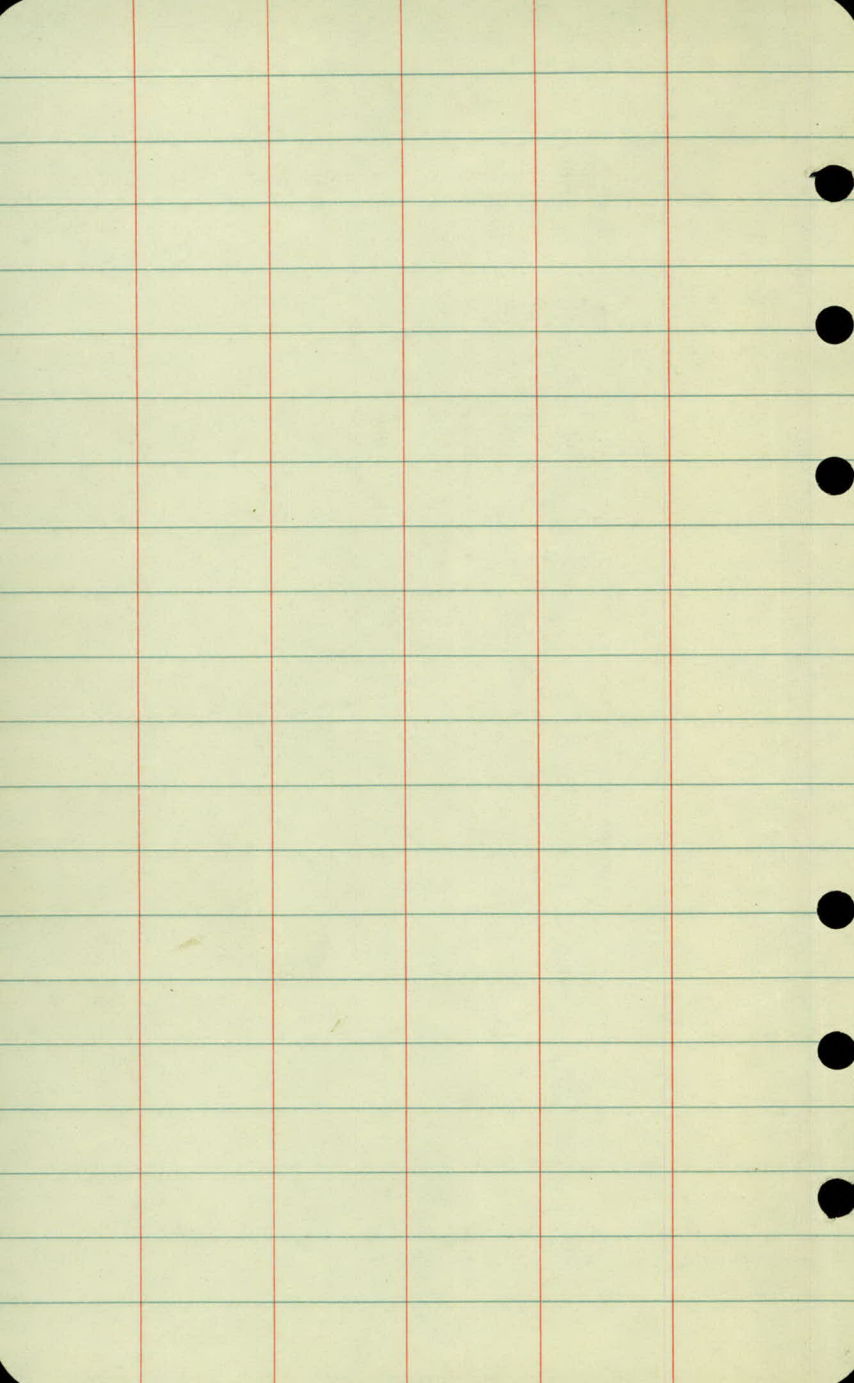
26
5

Profile

Pond

Small dam

Top of Headwall



FK
RG
AB

May 23, 1958

27

Ditch # 17

Profile East from W.B. Ave

Note:

92' from South to $\pm$ Tracks

Total Length of Culvert 263'

2 pages

Sta	+	π	-	Elev
BM		3.66911.09		907.43

0+00			1.85	09.24
------	--	--	------	-------

0+32		10.5	13.67	97.42 ⁷ 97.38
------	--	------	-------	--------------------------

+33			12.2	98.9
-----	--	--	------	------

+50			12.2	98.9
-----	--	--	------	------

1			11.9	99.2
---	--	--	------	------

+50			12.1	99.0
-----	--	--	------	------

2			12.3	98.8
---	--	--	------	------

+50			12.5	98.6
-----	--	--	------	------

3			12.5	98.6
---	--	--	------	------

May 23, 1958

28
2

Lt

£

Top of N.E. Cor N. End of East Wing Wall Lt. Sta 40143

£ White Bear Ave.

F.L. E. End 36" X-Drain

Ground At East End of X-Drain

98.7
12.4
100' Lt

12.7 98.4
100' Lt

12.9 98.2
100' Lt

98.1
13.0 Lowest Point Located
100' Lt

12.9 98.2
100'
Lt

