

Bk. 109 Dr. 16

OFFICE OF COUNTY ENGINEER
RAMSEY CO. MINN.

_____ Levels _____ Survey

_____ Andersons Ditch _____

From No. Co. Line _____ To S.W. to N.P.R.R. _____

Road Acc't. No. _____

Date Filed _____

File _____

W.B.

Align
Andersons Ditch

From No Co Line S or West To NPRR

7/8/43

Drawn up on
paper plan sheet
9/21/43 W.B.

Sta	Point	Δ Lt	Δ Rt
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8+28 ³⁰	P. 1		
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		80° 01'	
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7+63 ⁴⁰	P. 1		
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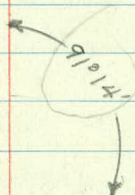
		188° 18'	
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0+00 =	P. 1	* No Co Line Rd.	91° 14'
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23+91 No Co Line Survey

Description

S.E. angle



88° 46' 1

91° 14' 1

Sta

Point

ALT

Δ RT

14+206°

P.1

8°27'

11+228°

P.1

2°12'

9+972°

P.1

100°30'

Description

Sta	Point	ΔL	ΔB
-----	-------	------------	------------

22+15 ²⁰	P.1	In West RR Ditch	
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21+92 ⁵⁵	P.O.T.	Σ N.P. RR	
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21+09 ⁵⁰	P.O.T.	Σ STH #61	
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20+85 ⁴⁰	P.1		12°32'
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17+48 ¹⁰		6°54'	
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Profile Levels
No Co Line Rd
Ditch Elev

Note

X Drains should
be placed on No
Co Line To 1

Sta	+	Σ	-	Elev
B.M.	3.31	944.06		940.75
	3.70	938.80	8.96	935.10

18+00

19

20

21

22

23

24

T.P.	6.99	939.16	6.63	932.17
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25

26

27

28

29

Lt.
Ditch

#

Rt
Ditch

Drill/Hole Sta 13 + 9431

Note

Water Backs up
to Sta 18 + 00 Rt Ht.

7.3 31.5

6.8 32.0

8.0 30.8

7.8 31.0

8.5 30.3

8.5 30.3

8.4 30.4

8.4 30.4

8.3 30.5

8.0 30.8

7.1 31.2

7.8 31.0

31.85

W.S 9/9/43

6.95

8.2 30.6

31.3

7.5

W.S 9/9/43

31.70

7.10

8.2 31.0

7.5 31.7

7.8 31.4

6.9 32.3

8.1 31.1

7.0 32.2

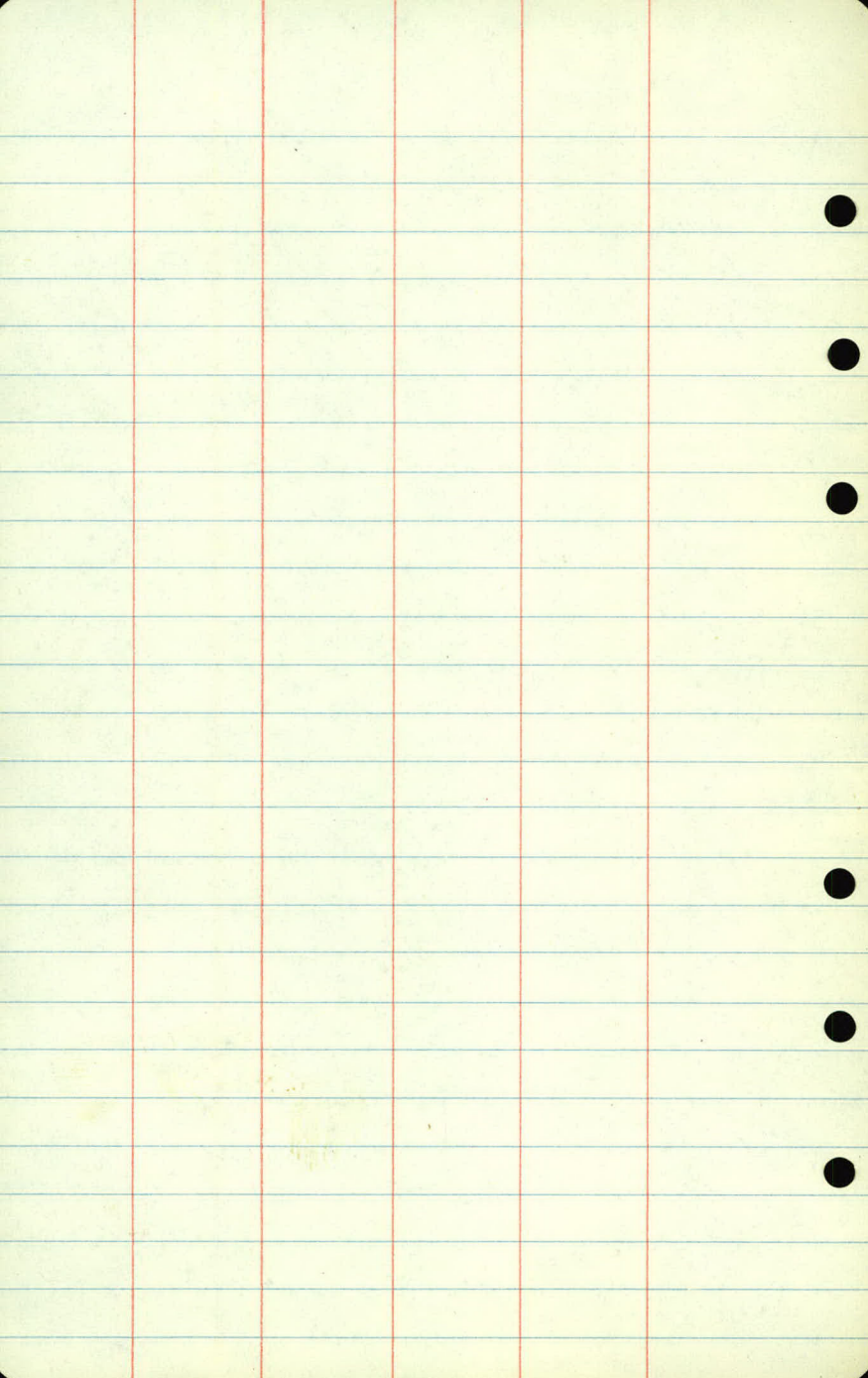
8.0 31.2

6.9 32.3

8.3 30.9

7.6 31.6

Note
Rt Ditch Dry
24 + 50 Feet



Profile Levels
Anderson Ditch

0+00 = No Cohine Rd

Sta	+	Δ	-	Elev
		939.16		HI Carried Forward
0+00 =	R	No Co Line		34.3
23+91				
6+17				33.8
+30				31.4
1+00				31.5
2				31.4
3				31.4
4				31.2
5				31.5
T.P	3.86	937.99	5.03	934.13
6				31.5
7				31.5
+63.40	Δ	Pt		31.4
8				31.6

2
Ditch

From No. 60 Line Notes

49

54

78

7.7

78

7.8

8.0

7.7

6.5

6.5

6.6

6.4

Sta	+	π	-	Elev
		93799		
8+28 ³⁰	Apt			31.1 38.0
+31	Beg	6" X 18' Tile Cattle X		31.1
+49	End	6" X 18' Tile		31.1
9				31.1
+50				30.9
+99 ²⁰	Beg	8" Tile Vt		30.92
T.P.	8.99	940.67	6.31	931.48
10				33.1
+50				33.0
11				34.4
+50				35.7
12				35.1
+50				35.7

2
Ditel

6.9

6.9

6.9

6.9

7.1

7.07

Top 8" Tile Line

7.6

7.7

6.3

5.70

5.6

5.0

Sta + π -
940.67

13 35.2

+50 34.1

14 33.2

+28⁸⁰ End 8" tile Beg Ditch 30.22

T.P 7.41 939.41 8.67 932.00

+50 30.6

15 30.7

+50 30.6

16 30.6

+50 30.3

17 30.4

+50 30.5

18 30.5

4

5.5

6.6

7.5

32.2

QV.

INV.

85

10.45

8.8

8.7

8.8

8.8

9.1

9.0

8.9

8.9

Sta	+	Δ	-	Elev
		939.41'		
18+50				30.6
+59	End Ditch x Drain Rt			30.5
+75				33.4
19				34.5
+50				36.0
20				35.2
T.P.	451	940.30	3.62	935.79
+50				35.1
+85 ⁴⁰	P.1			35.0
+87 ⁴⁰	Beg 24" x 44' Conc P. pt			33.95
+92	Shoulder STH #61			38.6
21				38.7
+09 ⁵⁰	✱ STH #61			38.83

2

8.8

30.53

30.73

30.82

50 Inv

110 Inv

Box 14th Tr.

888

868

859

89

31st No

60

49

34

42

52

53

635

1.7

1.6

1.47

Sta	+ Δ -	Elev
	940.30	
21+18.30		38.76
+28	Shoulder	37.7
+32	End 24" x 44' Conc Pipe	33.60
+42		34.4
+59		34.8
+71		34.2
+79		32.5
+87	Top Ballast	34.4
+90.20	Top East Rail	35.03
+94.90	Top West Rail	35.02
22		35.2
+11		29.2

2

1.54

2.6

Inv

6.70

5.9

5.5

6.1

7.8

5.9

5.27

5.28

5.1

11.1

Note
14" Tile Ends approx
at This pt in R.R.
Ditch

Sta	+	↑	-	Elev
		940.30		
22+15				29.2
+50				30.2
23				29.5
+50				29.6
24				29.5
+50				29.6
25				29.8
+50				29.6
26				29.3
+50				29.3
27				28.9
+50				28.5

2

11.1

10.1

10.8

10.7

10.8

10.7

10.5

10.7

11.0

11.0

11.4

11.8

Sta	+	π	-	Elev
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		940.30		
--	--	--------	--	--

28				28.3
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+50				27.8
-----	--	--	--	------

29				27.4
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B.M			3.92	936.38
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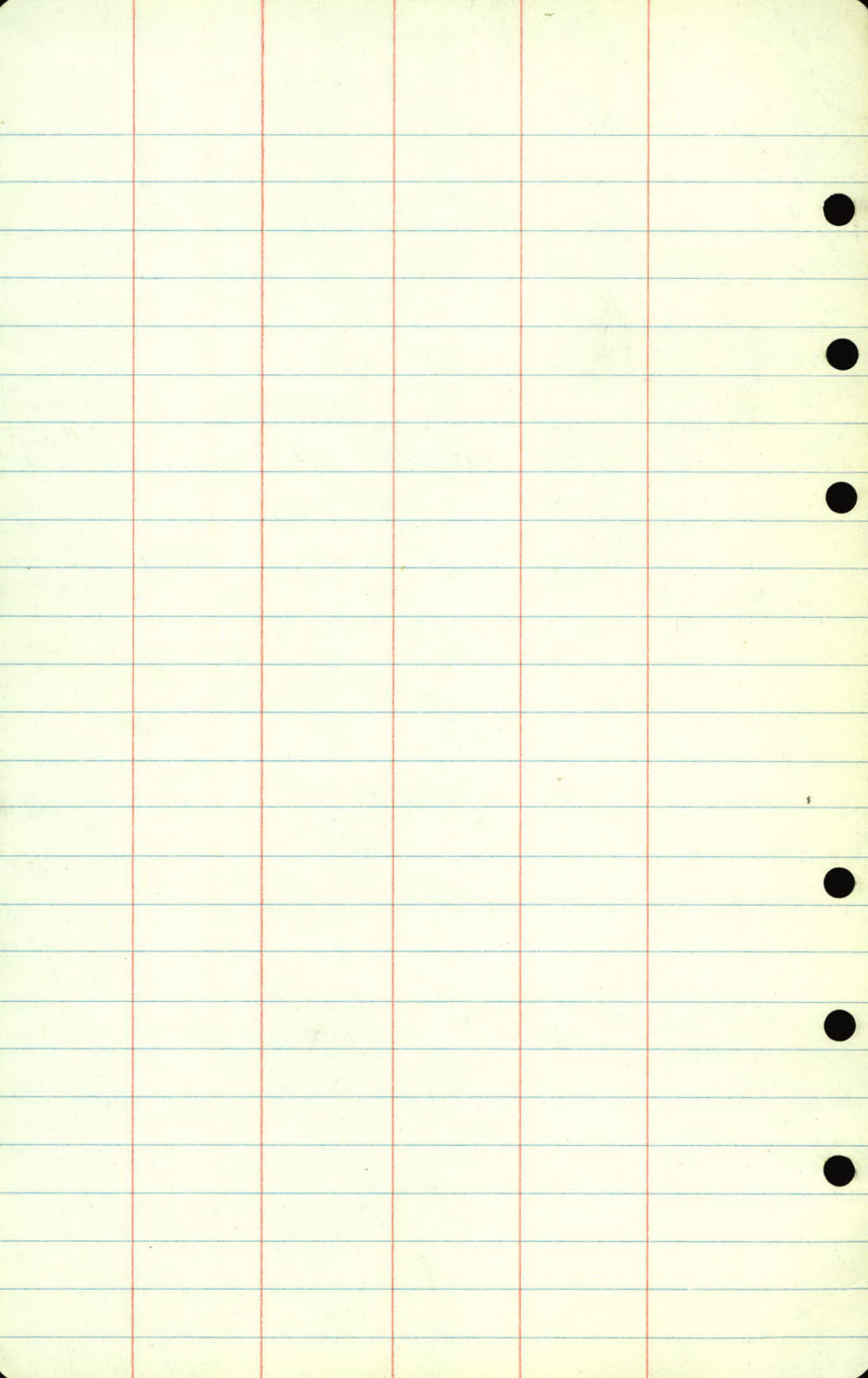
*

12.0

12.5

129

SPK in P.P. N.W. Cor 5TH #611 Anderson X.



No Co Line Rd
Drainage Study

Profile So Ditch
From West Side N.P. Tracks East

7-20-47

HAW

AM

L.G.

Index Pages

Profile 1 to 4

Drawn up on Cross Section
Sheet Aug 24-1943.

Not feasible to
construct.

low area is 2' lower
than ditch to be
connected to it
HAW
W.B.

Sta	+ K / -	Elev	
B.M	4.44	904.44	Assumed
+00		West R.R D. to	91.1

+05			91.8
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+24			95.1
-----	--	--	------

+27			96.0
-----	--	--	------

+305	To West Rail		96.93
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+355	East Rail		96.93
------	-----------	--	-------

+40			96.0
-----	--	--	------

+45			94.9
-----	--	--	------

+50			94.9
-----	--	--	------

+60			900.8
-----	--	--	-------

+8A			900.3
-----	--	--	-------

+89			897.6
-----	--	--	-------

✱

13.3

12.6

9.3

8.4

7.51

7.51

8.4

9.5

9.5

3.1

4.1

6.8

Sta	+	X	-	Elev
		90444		
0+97		$\frac{117}{8127}$		98.2

1				99.2
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+08		West Edge	Pave	99.64
-----	--	-----------	------	-------

+18		± StH		99.82
-----	--	-------	--	-------

+28		East Edge	Pave	99.82
-----	--	-----------	------	-------

+50				99.1
-----	--	--	--	------

2				98.5
---	--	--	--	------

+50				96.9
-----	--	--	--	------

3				95.3
---	--	--	--	------

+50				93.7
-----	--	--	--	------

4				92.7
---	--	--	--	------

T.P	267	898.15	8.96	895.48
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+50		.		92.1
-----	--	---	--	------

~~8~~
Ditch

6.2

5.2

4.80

4.62

4.62

5.3

5.9

7.5

9.1

10.7

11.7

6.1

Sta + π - Elev

898.15'

5+100

91.8

+50

+50

Big Low Spot 91.1

6

90.2

+50

90.2

7

89.5

+50

89.3

8

89.6

+50

89.5

9

89.7

+50

89.8

10

89.9

+50

90.5

~~2~~
Ditch

64

71

80

80

87

89

86

87

85

8.4

8.3

7.7

90.99

50 Ditch

W.S 7/11/43

7.16

91.21

W.S No Ditch
694

