Dr. 9 BK. 14

OFFICE OF COUNTY ENGINEER
RAMSEY COUNTY, MINN.

_____ Survey

WHITE BEAR - SEC 32

Drainage at Centerville & E

From _____ To _____

Road Acc't. No. _____

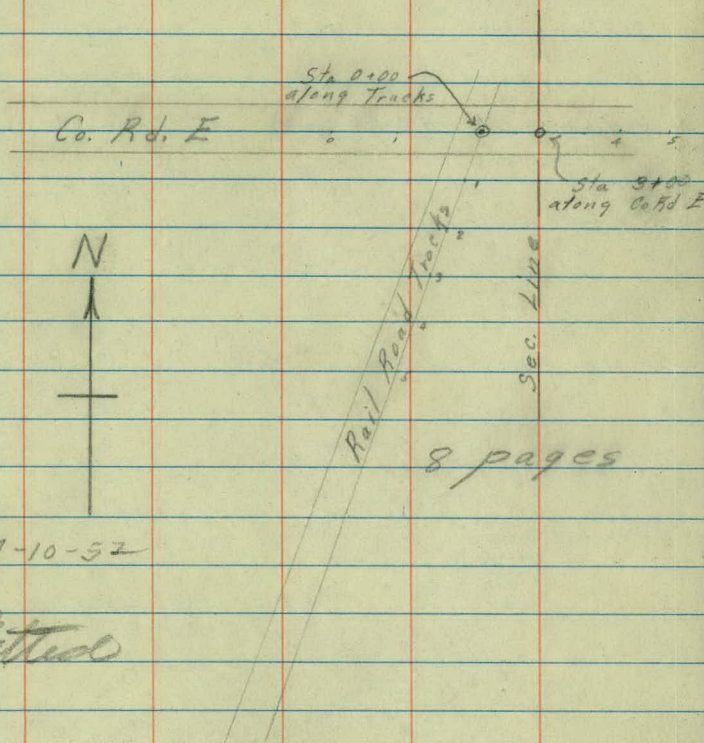
Date Filed _____ File Dr. 9 BK 14

White Bear Sec 32

Drainage Along

Profile of Co. Rd. E

Profile of Railroad Property



8 pages

Rec'd. 7-10-52

Platted

Co. Rd. "E" Profiles

Sta	+	~~927.04~~ ~~917.36~~	-	Elev	
BM	3.76			~~923.28~~ ~~919.60~~	
BM			4.71	922.33 912.65	
0+00				22.48	
1				22.38	
+91	Tracks			22.09	
+98				22.11	
2	F.C. West end 24"S.C.P			22.18	
		926.61			
BM	4.28	916.93		922.33 912.65	iron plug
3				22.33	
4				22.39	

8 July 1952
Kvilen
Moeschter
Benson

2

N. ditch — ℄ — So. ditch

Spike in P.P. N.W. Cor Kohler Rd & Centerville
Iron plug N.E. cor Sec 32 White Bear Twp

18.2 — 18.1
8.8 — 4.56 — 8.9

18.4 — 19.2
8.6 — 4.66 — 7.8

4.95

4.93

17.99 — 18.2
West 9.05 — 4.86 — 8.8
F.L.
Western 24" SCP
32' Long
East 8.68
17.93

18.3
8.3 — 4.28

East F.L. — West 18.67 8.00
8' — 19.44
+0 — East 7.17
+96 — 7.8 — 18.8
+92 — 7.9 — 18.7
18.4
8.2 — 4.22 — 8.1 — 18.5
8.1
8.2
7.9

Sta	+	A 926.61 916.93	-	Elev
5				22.38
+15	Ent	15" cm		Rt
+25	Ent	15" cm		Lt
6				22.36
7				22.38
8				22.45
9				22.57
10				22.83

N. Ditch	℄	S. Ditch
18.5		18.5
8.1	4.23	8.1
		18.35
		West 8.26
		18.58
18.36		East 8.03
8.28 West		
18.28		
8.33 East		
18.7		
7.9	4.25	18.6
		8.0
19.2		
7.4	4.23	18.7
		7.9
18.9		
7.7	4.16	18.9
		7.7
18.9		
7.7	4.04	18.8
		7.8
19.5		
7.1	3.78	19.0
		7.6

Rail Road Profiles

Sta	+	℄	-	Elev
		926.61 916.93		
0+00	℄ Co Rd E			
1+50				21.81
1				21.43
2				20.81
3				20.11
4		921.29		19.55 919.55
TP	1.74	911.61	7.06	909.87
5				18.78
6				17.89
7				17.13

P.T. Pitch East rail

4.9	21.7	18.4	
	8.2		4.80
4.4	22.2	18.4	
	8.2		5.18
5.9	20.7	17.6	
	9.0		5.80
6.7	19.9	18.1	
	8.5		6.50
8.8	17.8	17.2	
	9.4		7.06
6.2	15.1	17.1	
	4.2		2.51
7.1	14.2	16.1	
	5.2		3.40
7.7	13.6	15.1	
	6.2		4.16

Sta	+	H	-	Elev
		921.29 911.61		
8				16.52
9				15.93
10				15.46
11				15.02
12				14.44
13				13.87
14				13.44
T.P.	1.31	914.74 905.06	7.86	913.43 909.75
15				12.87

Rk.	Ditch	E. Rail
13.7	15.2	
7.6	6.1	4.77
13.7	13.0	
7.6	8.3	5.36
13.6	13.6	
7.7	7.7	5.83
14.3	13.5	
7.0	7.8	6.27
14.4	13.4	
6.9	7.9	6.85
15.0	12.8	
6.3	8.5	7.42
14.9	12.0	
6.4	9.3	7.85
13.3	11.6	
1.4	3.1	1.87

Sta	+	℄	−	Elev
		9.17.74 905.06		
16				12.39
+50	FL Culv 15"CM			
17				
18				
19				
20				
21				
22				

RL.	Ditch	E. Rail
11.7	10.9	12.39
3.0	3.8	2.35

09.95

1.79 North

09.50

5.24 South

11.5	10.2	12.02
3.2	4.5	2.22

10.1	08.5	11.38
4.6	6.2	3.36

09.4	07.5	10.79
5.3	7.2	3.95

5	08.8 07.5	10.25
	7.2	4.49

08.8	08.0	09.86
5.9	6.7	4.88

09.4	08.0	09.60
5.3	6.7	5.14

Sta	+	A	-	Elev	
		914.74			
		905.06			
23					
		914.73		909.41	
TP	5.32	905.05	5.33	899.73	
24					
+30	15" CM				
25					
26					
27					
28	F.L. E. end E.E. x Drain (6' Dia)				
		909.53		908.45	
TP	1.08	899.85	6.28	898.77	
		897.56		897.33	
BM	0.23	897.82	12.20	887.63	897.38
		907.76		894.01	
	13.95	898.08	3.35	884.33	
		918.24		907.70	
	10.54	908.36	0.06	898.02	

P.L	Ditch	E. Rail
07.7	08.0	09.41
7.0	6.7	5.33
08.0	07.8	09.67
6.7	6.9	5.06

07.26
North 7.47
07.19
South 7.54

08.4	08.5	10.05
6.3	6.2	4.68
09.0	08.3	10.19
5.7	6.4	4.54
08.5	07.3	10.14
6.2	7.4	4.59

	98.09	09.86		94.63
FL	16.64	4.87	FL	20.1

Top Sec. Cor. Iron Edgerton & Mississippi

Sta	+	℄	-	Elev.	
		908.56			
				909.40	
23			8.84	899.72	899.73
		924.69		916.92	
	7.77	915.01	1.32	907.24	
				923.26	
BM			1.43	913.58	

- Spike in PP N.W. Cor Koehler Rd & Centerville

Typical sections

Along R.R. Tracks

Co. Rd. E.S.to 6' Conc X Drain

Rec'd 7-11-52

Sta	A	
	5.0 at Each Station	
1		21.4
2+50		20.5
3+30		19.9
6+25	Willow Brush 180' Left	17.7
10+00		15.5
15+00		12.9
20		10.3
25		10.1

22.1	22.2	19.6	18.3	18.3	19.4	20.4		
A3	42	6.8	8.1	8.1	7.0	6.1	5.0	
25	17	13	12	10	9	5	East Rail	

20.5	20.1	17.7	17.6	18.4	19.3		
5.0	5.4	7.8	7.9	7.1	6.2	5.0	
25	21	18	13	10	5	ER	

19.5	20.2	19.2	18.6	18.1	18.1	19.4	
5.4	4.7	5.7	6.7	6.8	6.8	5.5	5.0
25	15	11	7	6	5	2	ER

13.5	13.7	14.0	16.5	16.0	17.2		
9.2	9.0	8.7	6.2	6.7	5.5	5.0	
250	150	50	17	10	3	ER	

13.5	13.8	13.5	14.2	14.9	14.1	14.1	14.9	
7.0	6.7	7.0	6.3	5.6	6.4	6.4	5.6	5.0
50	37	23	17	9	7	4	2	ER.

13.4	12.9	13.4	11.9	11.6	12.4	
4.5	5.0	4.5	4.0	4.3	5.5	5.0
46	24	14	10	5	2	ER

07.7	08.0	08.9	09.0	07.9	08.2	09.4	
7.6	7.3	6.4	6.3	7.4	7.1	5.9	5.0
50	22	20	15	12	6	2	ER

07.6	09.0	09.6	09.1	08.5	09.1		
7.5	6.1	5.5	6.0	6.6	6.0	5.0	
41	29	25	18	9	4	ER	

N. P.
Railroad R/W drainage
by
Co. Rd. "E"

5 pages

Dec. 7/30/52

Sta	+	℄	−	Elev
BM	2.86	923.19		922.33
0+00	E Co Rd "E"			22.10
+40				21.87
1				21.44
2				20.78
3				20.09
4				19.53
5				18.78
6				17.89
TP	2.31	919.90	7.60	917.59

29 July 1952 — East — 2
Kvidera
Moeschter
Clark
Rail

Top Iron Plug N.E. Cor. Sec. 32 White Bear Twp

3.09

3.4 2.9 4.7 6.3 6.3 4.0 3.32 ✓
40 22 13 10 8 2

3.6 3.2 6.7 6.7 5.4 4.5 3.75 ✓
40 18 10 9 7 2

4.6 4.4 7.7 7.7 6.5 6.0 5.0 4.41 ✓
44 21 15 13 9 5 2

6.5 6.0 5.3 6.6 7.0 7.0 5.9 5.10 ✓
67 45 20 8 6 5 2

8.8 8.6 8.7 7.5 7.8 7.1 6.2 5.66 ✓
67 42 24 18 11 5 2

10.3 10.1 9.0 8.1 7.0 6.41 ✓
66 35 19 5 2

11.2 11.1 11.0 9.2 7.8 7.30 ✓
95 46 23 6 2

Sta	+	⊼	−	Elev
		919.90		
7				17.17
8				16.52
9				15.87
10				15.40
11				14.90
12				14.40
13				13.86
BM	0.82	917.06	3.66	916.24
14				13.48

6.3 6.6 6.2 4.5 3.5 2.73 ✓
67 45 20 6 3

6.8 7.0 5.9 4.8 3.9 3.38 ✓
76 48 15 5 2

6.5 7.2 7.4 5.6 4.6 4.03 ✓
71 40 13 9 2

6.5 6.6 6.5 6.1 5.0 4.50 ✓
70 42 20 5 2

5.8 5.8 5.5 6.1 5.6 5.00 ✓
65 48 18 12 2

5.5 5.6 5.3 6.5 6.5 6.0 5.50 ✓
80 57 23 19 4 2

5.1 4.8 6.6 7.2 6.6 6.04 ✓
53 22 18 5 2

Spike in Whistle Pole

2.6 2.3 2.0 5.0 4.3 3.58 ✓
55 40 14 5 2

Sta	+	π	−	Elev
		917.06		
15				12.90
16				12.40
17				12.02
18				11.42
19				10.80
20				10.23
21				09.88
TP	~~6.58~~ 7.58	916.11	8.53	908.53
22				09.63

4.0 3.9 3.6 5.3 4.8 4.16 ✓
53 36 13 8 3

4.6 5.4 6.2 5.3 4.66 ✓
41 14 7 2

6.6 6.3 5.8 7.0 5.7 5.04 ✓
43 20 11 5 2

8.6 8.3 7.0 8.4 6.3 5.64 ✓
46 24 17 6 2

9.2 9.1 7.9 9.5 8.1 6.9 6.26 ✓
45 28 15 10 5 2

9.7 9.4 8.3 9.5 7.7 6.83
49 24 15 10 2 ✓

35

9.6 9.6 8.2 8.8 7.8 7.18 ✓ 709.88
45 25 15 6 2

1.25

8.7 8.4 6.4 8.2 7.1 6.48 ✓ 103.63
46 26 19 7 2

Sta	+	π	−	Elev	
		916.11			
23				09.59	
24				09.75	
25				10.11	
26				10.19	
27				10.12	
TP	4.38	914.05	6.44	909.67	
+66	6' Conc X Drain 68'				896.13
	East End 30' Left		11.92+6	=17.92 FL	
					894.74
	West End 38' Rt.		13.31+6	=19.31 FL	
TP	1.42	909.15	6.32	907.73	
BM			11.82	897.33	897.38

8.5 8.3 6.8 8.3 7.1 6.52 ✓
43 24 19 5 2

8.0 7.6 6.5 7.3 8.4 7.0 6.36 ✓
45 24 19 10 7 2

8.3 8.1 7.7 8.4 7.8 6.7 6.00 ✓
56 40 25 21 7 2

8.0 7.8 5.6 7.3 6.5 5.92 ✓
57 37 19 7 3

12.5 8.3 9.2 7.3 6.6 5.99
38 24 19 10 2

Top sec Cor iron at Mississippi & Edgerton