B-19-Dr

Dr 12 - Bk. 19

OFFICE OF COUNTY ENGINEER
RAMSEY CO. MINN.

PLAN Survey

ORCHARD LANE

From Willow Ave. To White Bear Ave.

Road Acc't. No. W-6

Date Filed 12-28-38 File

W.B.-TWP.

1

ORCHARD LANE.

Plan survey from West ¼ Cor. Sec. 35 to White Bear Ave. the Ctr. of Sec. 35 White Bear Township.

10/38

Bratager
Wilke
Foldberg
Moeschter

Angle.

Sta.	Point	Lt.	Rt.
26+40.12	P.O.T.		
14+96.00	P.O.T.		
4+00.5	P.O.T.		
0+00	P.O.T.		

Iron Plug in Pavement White Box Pa

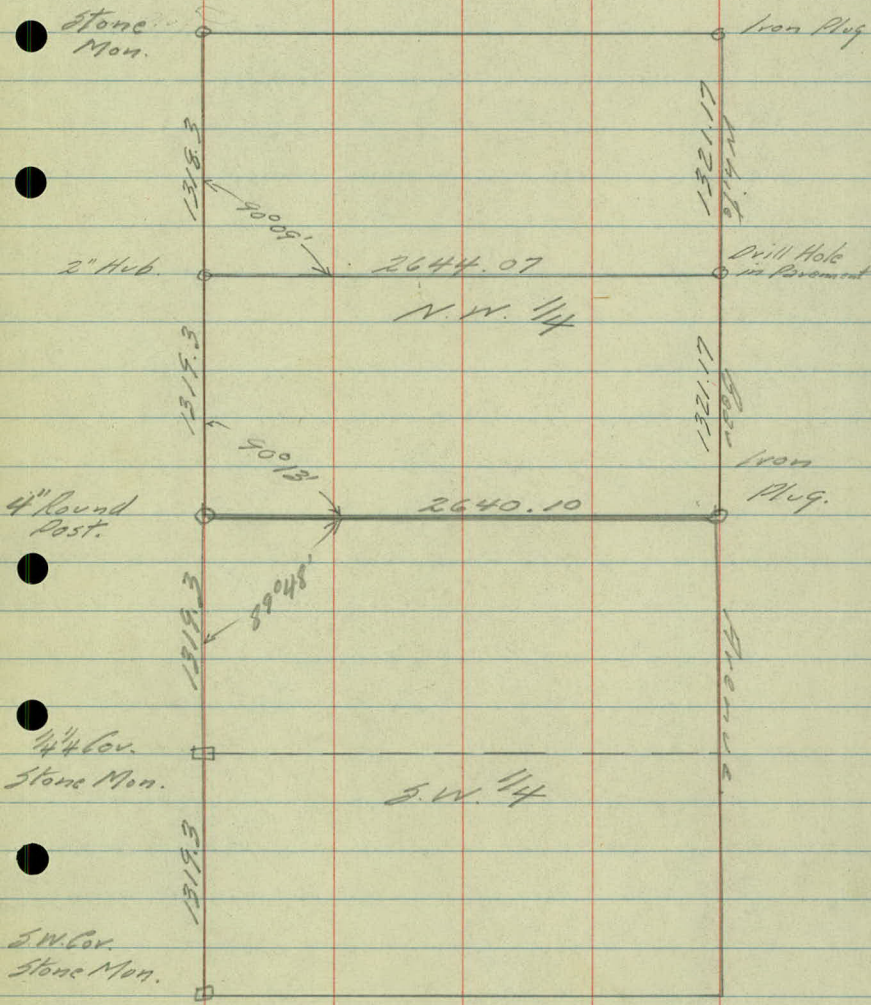
2" Hub.

2" Hub.

3" Round Hub.

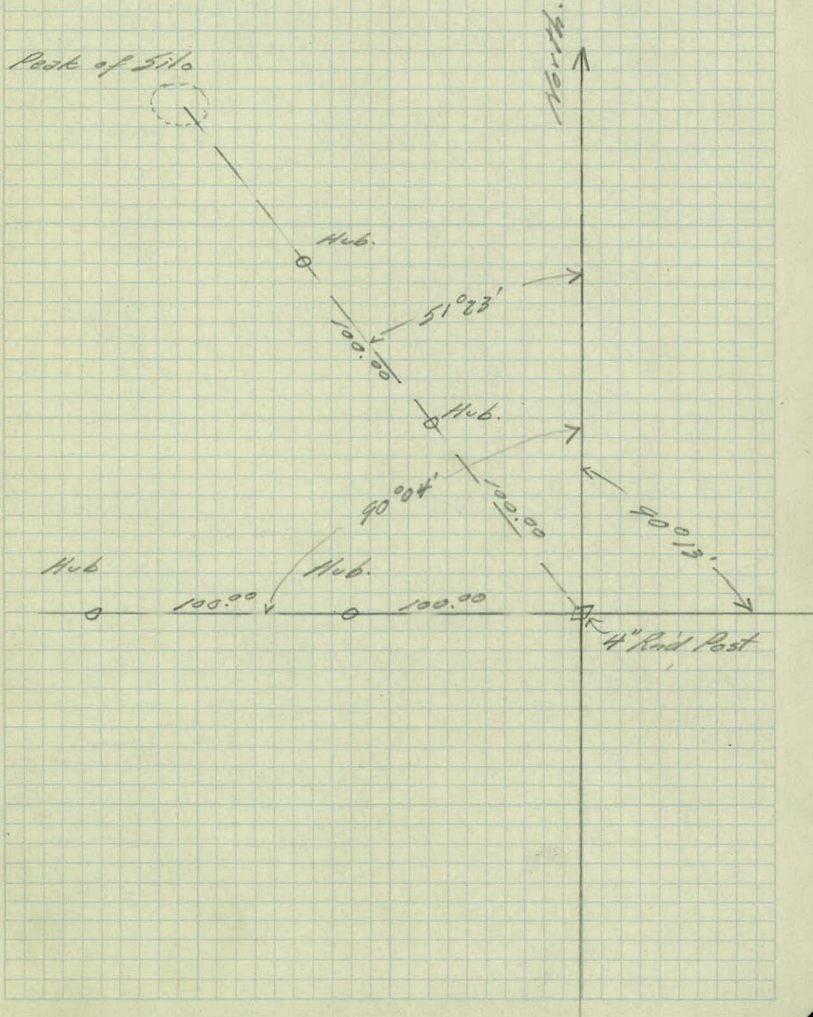
North

Section 35 White Bear Township.

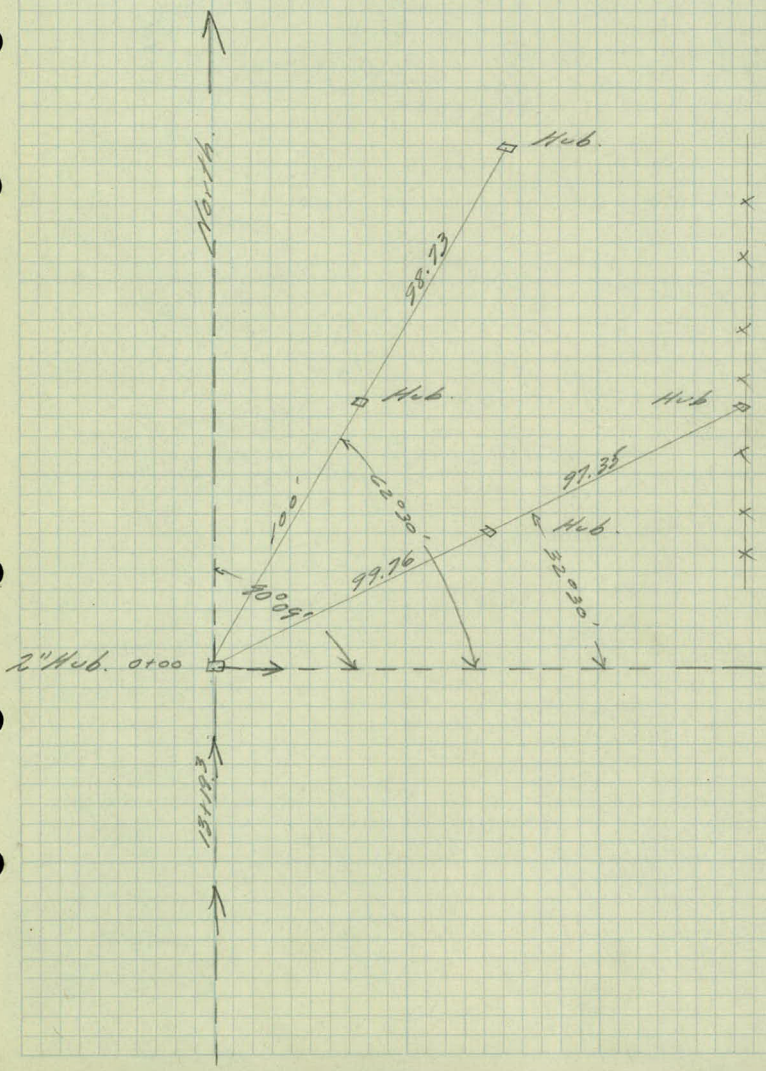


West 1/4 Cor. Sec. 35

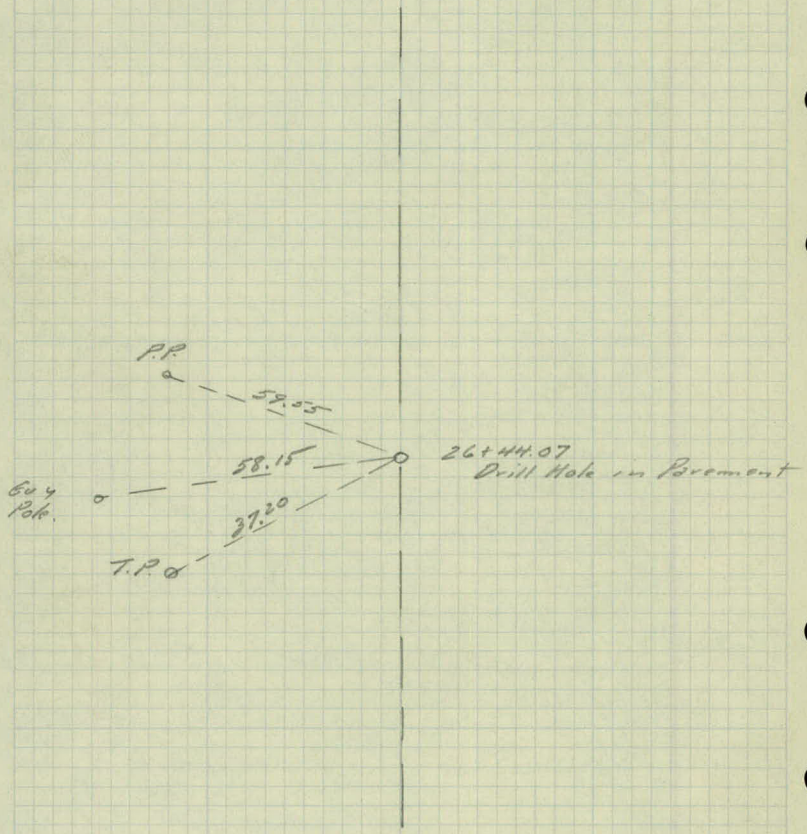
White Bear Township.



West ¼ Cor. of the N.W¼ of Sec 35



East ¼ Cor. of the N.W. ¼ Sec 35



6 11-19 Wagon Trail

5 13-21

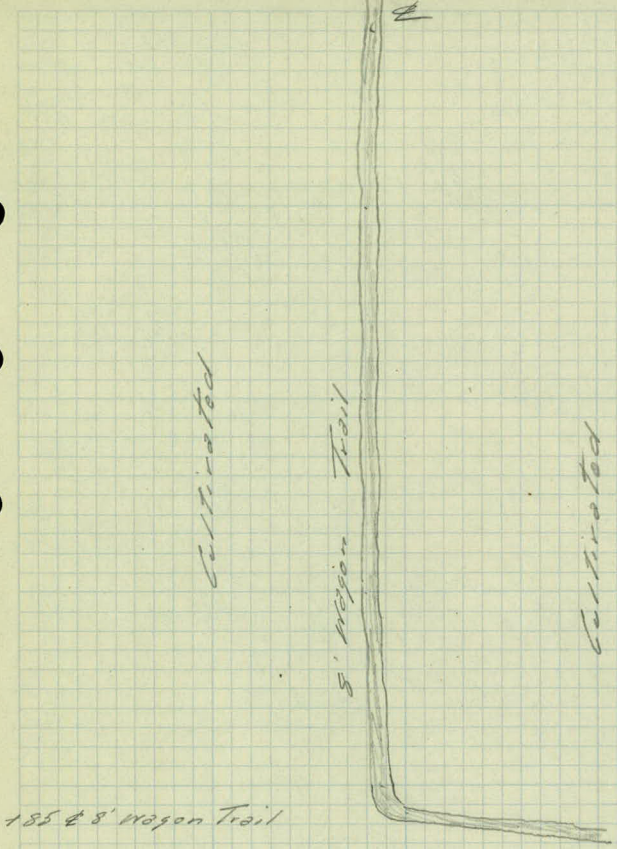
4 16-24

3 16-24

2 7-15

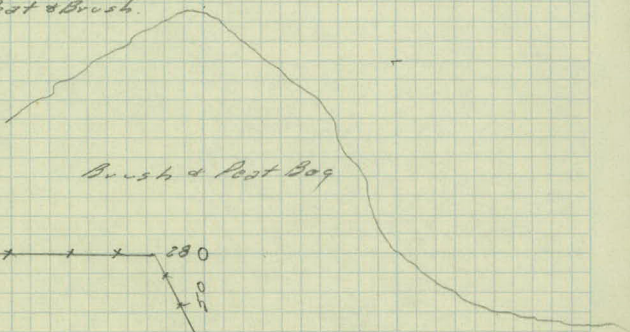
1

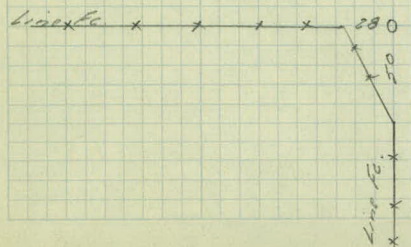
0



185 & 8' Wagon Trail

1+28 End of Post & Brush.





13 10-25 2

12 5-22

11 5-16

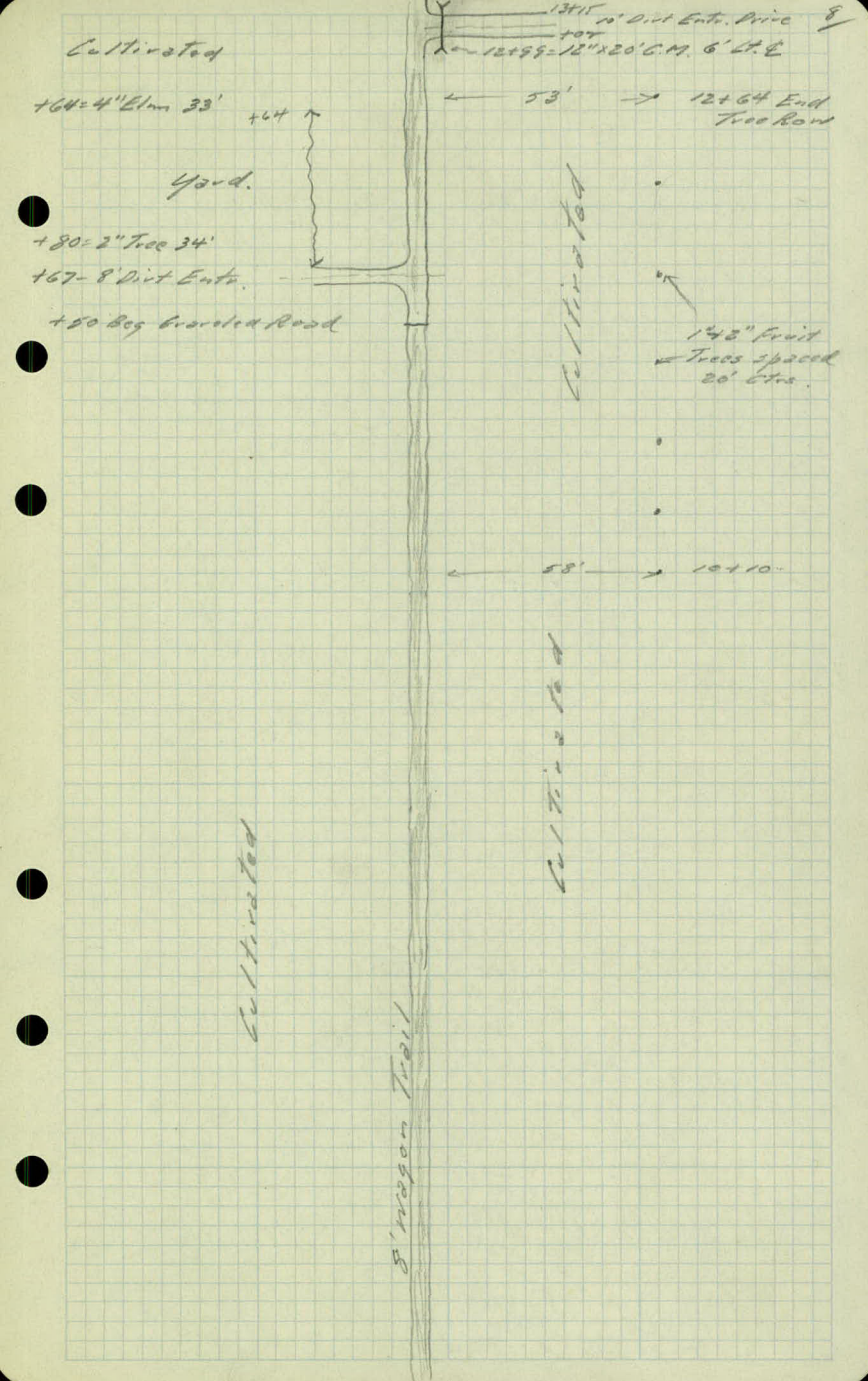
10 7-15

9 8-16

8 10-18

7 5-16

6


13+15 10' Dirt Entr. Drive
Cultivated
12+58=12"x20' C.M. 6' Ht. C
+64=4" Elm 33'
+64
53'
12+64 End Tree Row
Yard
+80=2" Tree 34'
+67=8' Dirt Entr.
+50 Beg Graveled Road
Cultivated
143" Fruit Trees spaced 20' Ctrs.
58'
10+10
Cultivated
Cultivated
5' Irrigation Trail

20

8+24 Gratelod Road.

19 10-27

18 9+23

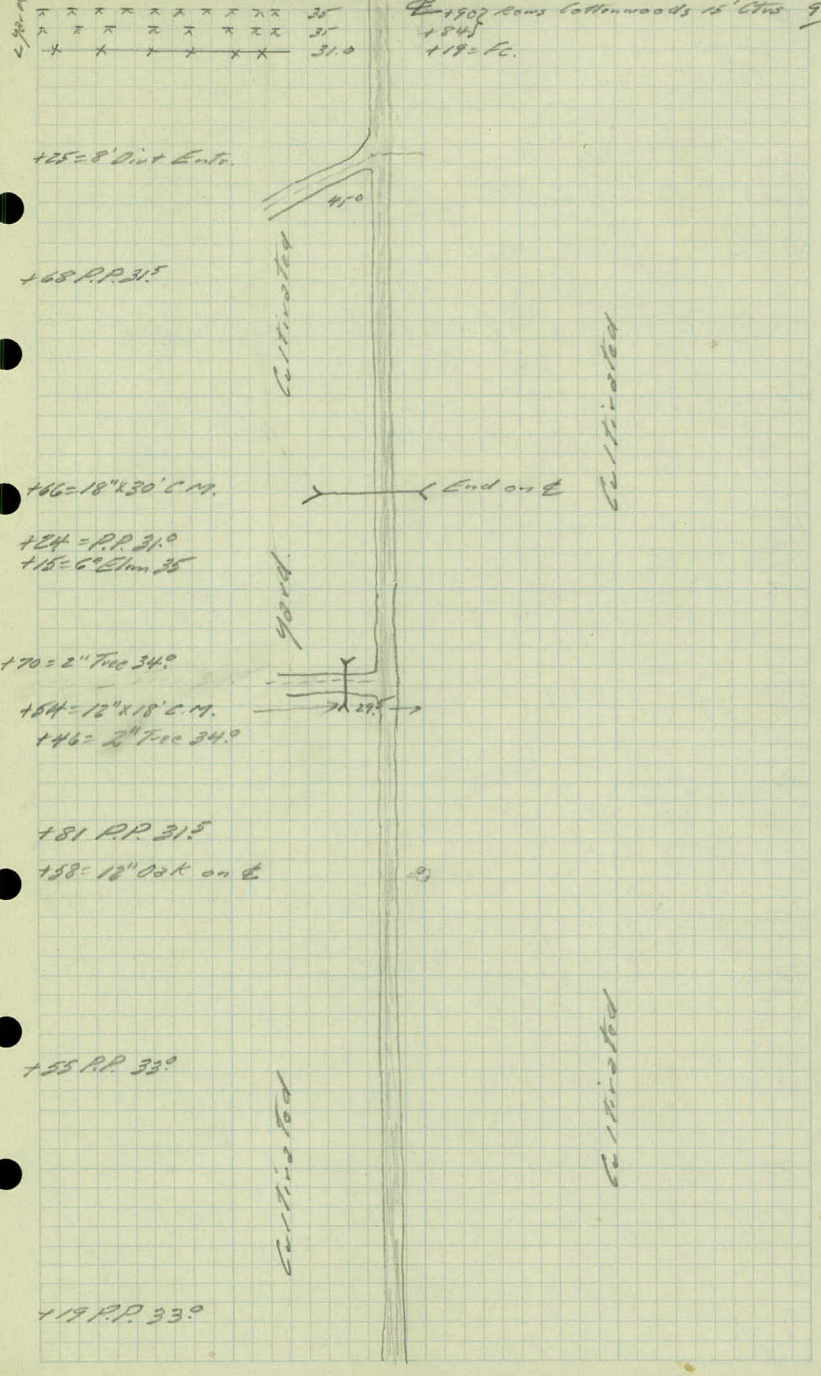
17 8+23

16

15 10+24 Lt.

14

13


35
35
31.0
+1902 Rams Cottonwoods 15' Ctrs
+845
+19 = Fc.
+25 = 8' Dist to Ente.
41°
Continued
Continued
+68 P.P. 31.5
+66 = 18" x 30' C.M.
End on ℄
+24 = P.P. 31.°
+15 = 6" Elm 35
Yard.
+70 = 2" Tree 34.°
+64 = 12" x 18' C.M.
29.5
+46 = 2" Tree 34.°
+81 P.P. 31.5
+38 = 12" Oak on ℄
+55 P.P. 33.°
Continued
Continued
+19 P.P. 33.°

27

Graded Road.

26 6 & 20

25 7 & 20

24

23 8 & 22

22

21 8 & 24 Lt.

20

+40.10 white Beam . Arc. 20' Conc. Pavement

+16=12"x24"C.M. 3' Lt ℄ +21 Rd Sym 7.°

+13 T.P. 25.°

+28 P.P. 26.°

Pole #1173

Pole #1172

+36 P.P. 26.5

+93 P.P. 27.5

Pole #1171

+54 P.P. 28.°

Pole #1170

+74=4" Elm 39.°

+67=2" Elm 36.°

+19=8' Dirt Road

+06 P.P. 29.°

Orchard Lane 10/38

Sta.	+	H	−	Elev.
T.P.	12.75	922.14		909.39
B.M.	13.26	922.14	13.26	908.88
0-50				08.1.
0+00				08.1.
+50				08.8.
1				084.
+17				08.3.
+60				13.6.
2				18.0.
T.P.	11.70	933.26	0.58	921.56.
+50				22.7.
3				28.2.
T.P.	8.35	940.13	1.48	931.78.
+50				31.9.
4				33.8.

Lt. | ℄ | Rt.

Top of Angle Iron at W ¼ Cor. Sec. 35

Spike in Fence Post S½. 0 - 100

Lt.	℄	Rt.
14.0 / 50	14.0	14.0 / 50
14.0 / 50	14.0	14.0 / 50
13.3 / 50	13.3	13.3 / 50
12.4 / 50	13.7	13.7 / 50
11.0 / 50	11.1 / 38 — 11.6 / 43	13.8	13.7 / 50
7.1 / 50 — 7.8 / 39 — 8.0 / 14	8.5	8.7 / 14 — 9.8 / 22 — 10.8 / 44 — 11.6 / 50	
2.9 / 50 — 3.8 / 5	4.1	6.5 / 50	
7.8 / 50 — 8.9 / 30 — 8.6 / 23 — 9.7 / 14	10.6	15.0 / 50	
2.4 / 20 — 3.5 / 34 — 3.5 / 13	5.1	11.5 / 28 — 10.7 / 50	
5.6 / 50 — 6.1 / 26 — 6.6 / 11	8.7	11.8 / 31 — 14.5 / 50	
3.9 / 50 — 4.6 / 33 — 4.9 / 15	6.3	8.9 / 27 — 12.3 / 50	

Sta	+	H.I.	−	Elev.
		940.13		
4+50				33.8.
5				32.5.
+50				33.5.
6				33.2.
T.P.	1.40	934.08	7.45	932.68.
+50				29.9.
7				25.8.
+65				23.7.
8				23.8.
+50				24.7.
9				27.6.
+50				30.4.
T.P.	11.23	944.81	0.50	933.58.
10				33.9.

4.		8		10.
5.6/50	5.4/13	6.3/	8.4/30	11/50
6.0/50	6.4/12	7.6/	9.3/26	12.1/50
5.4/50	5.8/9	6.6/	8.3/30	10.5/50
7.2/50	6.6/9	6.9/	7.4/30	8.8/50
4.2/50	4.3/26	4.2/9	4.2/	4.1/33	4.7/50
2.6/50	2.9/33	2.8/8	8.3/	8.2/19	8.8/50
10.5/50	10.1/19	10.4/	10.4/50
10.4/50	10.2/20	10.3/	9.7/50
5.4/20	5.2/24	9.4/8	9.4/	8.0/50
6.8/50	6.6/23	6.5/	6.4/50
2.8/50	3.2/19	3.7/	3.2/50
9.7/50	10.9/21	10.9/	12.2/21	12.2/50

Sta	+	H.I.	−	Elev.	
		944.81.			
10+50				34.5.	
11				38.4.	
+50				41.8.	
12				40.4.	
+50				38.8.	
13				39.1.	
B.M.	4.60	944.81	4.60	940.21.	
+60				38.31.	
14 X				38.6.	
+50				(41.2.)	41.4
+85				42.7.	
15				42.3.	
+50				39.2.	

Lt. ℄ Rt

5.3/50	5.3/20	9.5/8	10.3/	10.8/20	10.9/50
6.0/50	6.4/24		6.4/	6.8/21	6.7/50
33/50	35/25	44/22	3.9/13	4.0/6	3.0/3	3.0/	3.4/20	3.0/20
4.7/50	4.5/24	4.7/14	4.8/6	4.4/	4.7/30	4.7/50
5.7/50	6.7/26	5.6/27	5.1/16	5.4/5	6.6/4	6.0/	6.3/18	5.7/20
5.7/50	6.3/27	5.4/23	5.0/16	5.4/10	6.1/5	5.7/	5.8/21	6.2/50

Spike in RP 100' Rt. Sta. 137+20

4.6/50	5.3/25	6.0/26	5.3/24	5.0/16	5.4/10	6.2/5	6.5/	7.1/18	7.0/20
5.4/50	5.8/25	6.4/27	5.6/25	5.2/17	5.8/7	6.3/5	6.7	6.0/35	5.8/50
5.3/50	5.1/30	5.4/27	4.7/16	5.1/10	5.4/6	3.6/3	3.4/	3.6/50
4.7/50	4.4/31	6.1/24	4.3/17	4.5/13	5.0/6	2.3/2	2.1/	2.4/34	2.1/50
5.5/50	5.3/26	4.8/24	4.4/17	5.3/5	2.5/2	2.5/	2.9/23	3.6/50
7.1/50	6.0/26	5.1/17	5.4/8	6.0/6	5.6/	5.5/50

Sta.	+	H	−	Elev.
		944.81		
16				39.7.
T.P.	7.57	946.73.	5.60	939.21.
+80				39.6.
+80				36.9.
17				35.0.
+37				32.8.
+67				32.8.
C.M. Culvert				
18				38.8.
+80				40.2.
19				42.5.
+30				43.0.
70				40.3.
B.M.	12.18	946.73	12.18	934.55

Lt. | ℄ | Rt.

68/50 | 61/25 | 54/15 | 60/8 | 65/4 | 51/ | 64/50

76/50 | 71/31 | 87/27 | 86/24 | 81/15 | 83/11 | 88/7 | 90/4 | 71/ | 89/9 | 97/27 | 108/50

76/50 | 85/37 | 95/31 | 94/24 | 90/15 | 101/5 | 98/ | 114/10 | 118/25 | 131/50

78/50 | 91/34 | 97/26 | 94/16 | 98/8 | 102/5 | 117/ | 130/10 | 134/23 | 153/50

104/50 | 116/37 | 107/27 | 100/15 | 105/7 | 139/ | 150/10 | 163/50

124/50 | 127/43 | 118/30 | 108/21 | 101/13 | 110/5 | 139/ | 150/26 | 167/50

137/Inv. 33.5 | Inv./141 32.6

121/50 | 119/35 | 106/26 | 98/17 | 103/8 | 114/3 | 79/ | 126/16 | 118/50

106/50 | 98/27 | 90/16 | 98/7 | 65/ | 73/6 | 72/27 | 64/50

97/50 | 84/27 | 80/16 | 83/6 | 47/ | 28/1 | 35/5 | 40/50

85/50 | 75/36 | 78/27 | 74/17 | 75/6 | 60/4 | 37/ | 21/2 | 28/5 | 44/50

88/50 | 79/27 | 84/25 | 78/11 | 86/5 | 64/ | 69/4 | 66/50

Top of Conc. Wall N.E. Cor. 150' Lt. Sta 15+35

Sta.	+	℄ 946.73	−	Elev.
20+50				37.4.
21				35.7.
+50				35.4.
22				36.1.
T.P.	10.98	947.71	10.00	936.73
+50				35.6.
23				35.8.
+50				37.0.
24				39.6.
+50				41.4.
25				41.9.
+50				44.3.

Lt. | ℄ | Rt.

10.7/50 10.0/31 9.7/17 9.6/9 10.1/4 9.3/ 9.7/14 8.0/50

13.3/50 12.5/33 10.7/26 10.3/15 10.6/8 11.6/3 11.0/ 10.2/35 9.0/50

12.8/50 12.1/37 11.0/26 10.6/15 10.9/7 12.1/2 11.3/ 10.5/31 9.4/50

11.7/50 11.6/37 11.3/25 10.5/15 10.7/8 11.6/3 10.6/ 10.2/35 9.6/50

12.7/50 12.1/35 12.2/26 11.1/15 11.6/5 12.9/3 12.3/2 12.1/ 11.6/22 10.0/50

12.1/50 12.4/28 11.8/24 10.8/14 11.3/8 12.5/3 12.1/2 11.9/ 11.0/28 9.0/50

11.4/50 11.6/39 11.1/24 10.3/15 10.6/8 11.5/3 11.0/2 10.7/ 10.4/21 8.0/30

10.0/50 10.1/40 9.2/26 9.8/23 9.0/14 8.4/8 8.8/3 8.1/1 8.1/ 7.6/24 5.1/50

7.6/50 7.4/26 8.1/24 7.2/14 7.5/7 8.0/3 6.5/1 6.3/ 5.3/23 2.9/50

6.4/50 6.3/38 5.7/26 6.2/24 5.3/13 5.7/7 6.5/3 5.8/ 6.3/15 6.4/25 4.1/50

5.0/10 4.7/40 5.0/36 3.9/25 4.8/23 4.2/14 5.0/3 4.7/1 3.4/ 4.4/5 5.4/25 4.3/50

Sta.	+	H.I. 947.71	−	Elev.
26				44.3
+17				43.2
+15				41.8
+22				43.4
+26				44.0
+40.10				44.2
B.M.			3.55	944.16

Lt. ℄ Rt.

38/60 39/31 37/24 38/23 34/17 40/2 34/1 32/1 42/13 44/50

40/50 37/23 34/13 38/5 42/2 45/1 47/50

57/50 60/29 38/26 34/14 44/4 57/3 58/1 69/50

54/50 54/36 37/28 33/17 38/6 43/1 58/10 69/50

33/50 33/33 33/17 37/1 39/50

37/50 35/1 39/50

Top of Iron Plug Ctr. Sec. 35

PUSH SOUNDINGS

Orchard Zone

		25R	50Rt
0+00	℄ 10.0	9.0	12.0
+50	℄ 7.0	20Rt 7.0	20 Lt. 6.0
1+00	℄ 4.0	20Rt 4.0	20 Lt. 3.0
1+25	℄ 2.0	20 Rt 2.0	
+50	℄ 2.0	20Rt. 2.0	

---

north off each Zone

1+00	℄ 6.0
1+50	℄ 5.0

Push sounding 4 feet

~~Monday~~

~~AWL~~

~~Call Mr Buckman~~

~~Ad Jr~~

Orchard Lane.

Slope Stakes.

1/38

26' Crown
2:1 Slopes
21' To Backslope @ ditch

Sta.	+	=	−	Grade
B.M.	10.87	919.70		908.83
0+48				16.7
+48				16.7
1				16.9
+17				16.9
+60				17.8
T.P.	8.52	927.28	0.94	918.76
2				18.6
+50				17.6
T.P.	13.73	937.20	3.81	923.47
3				20.7
+50				21.7

4. E 8+.

3.0 10.7 / F.7.7 11.4 / F.5.4 / 29.8

3.0 10.9 / F.7.5 / 28.8 11 / F.8.1 / 29.2

2.8 10.2 / F.7.4 / 27.8 11.2 / F.8.4 10.8 / F.8.0 / 29.0

2.8

1.9 5.3 / F.3.4 / 19.8 6.0 / 4.1 / F. 6.3 / F.4.4 / 21.8

8.7 / 10.7 8.2 / D.C.2.5 / 26.0 9.4 / F.0.7 10.4 / D.C.0.3 / 21.6

7.7 / 9.7 3.0 / D.C.6.7 / 34.4 4.6 / C3.1 6.5 / DC3.2 / 27.4

Top & Slide 2+50

14.5 / 15.5 6.1 / DC12.4 / 45.8 9.0 / C7.5 12.3 / DC.6.2 / 33.4

15.5 / 17.5 2.5 / DC15.0 / 51.0 5.2 / C10.3 9.8 / DC7.7 / 36.4

Sta.	+	℄	−	Grade
		737.20		
4				22.8
+50				23.8
5				24.9
+50				25.9
6				27.0
	1.47	735.20	3.47	933.73
+50				28.0
7				29.1
+65				30.5

	4.	E	C.
14.4 16.4	0.9 DC 15.5 52.0	3.3 C 11.1	7.7 DC 8.7 38.4
13.4 15.4	2.6 DC 12.8 46.6	3.3 C 10.1	6.7 DC 8.7 38.4
12.3 14.3	3.3 DC 11.0 43.0	4.6 C 7.7	7.3 DC 7.0 35.0
11.3 13.3	2.5 DC 10.8 42.6	3.6 C 7.7	6.0 DC 7.3 35.6
10.2 12.2	4.5 DC 7.7 36.4	4.0 C 6.2	4.7 DC 7.5 36.0
7.2 9.2	5.8 DC 3.4 27.8	5.4 C 1.8	5.2 DC 4.0 29.0
6.1	19 9.0 F 2.9 18.8	9.3 F 3.2	12 9.5 F 3.4 19.8
4.7	11.4 F 6.7 26.4	11.5 F 6.8	11.5 F 6.8 26.8

Sta.	+	=	−	Grade
		935.20		
8				31.7
+50				32.2
9				33.3
T.P.	13.54	941.81	6.93	928.27
+50				34.3
10				35.4
+50				36.5
11				37.5
T.P.	6.63	945.82	2.63	939.19
+50				38.4

	24.	25	26.
4.0	11.4 F7.4 27.8	11.4 F7.4	10.8 F6.8 26.6
3.0	10.4 F7.4 27.8	10.6 F7.5	9.9 F6.9 26.8
1.9	8.2 F6.3 25.6	7.6 F5.7	7.5 F5.6 24.2
7.5	11.0 F3.5 20.0	11.3 F3.8	11.2 F3.7 20.6
6.4 8.4	7.8 DC0.6 22.2	7.9 F1.5	8.7 F2.3 19.6
5.3 7.3	6.4 DC0.9 22.8	7.3 F2.0	7.9 F2.6 18.2
4.3 6.3	3.9 DC2.4 25.8	3.4 C0.9	3.6 DC2.7 26.4
7.4 9.4	4.6 DC4.8 30.6	4.0 C3.4	4.1 DC0.3 31.6

Sta.	+	≈	−	Grade	
		945.82			
12				39.1	
+50				39.6	
13				39.8	
B.M.			5.61	940.21	940.21

4.	2	4
4.7 8.7	5.5 DC 3.2 27.4	5.3 C1.4	5.5 DC 3.2 27.4
4.2 8.2	6.7 DC 1.3 24.0	7.0 F0.8	4.5 DC 1.7 24.4
4.0 8.0	6.6 DC 1.3 24.0	6.7 F0.7	6.8 DC 1.2 23.4