

Book 11- Dr. 6

OFFICE OF COUNTY ENGINEER
RAMSEY CO. MINN.

PLAN Survey

Vadnais Blvd.

From Rice St. to Vadnais

Road Acc't. No. 6

Date Filed 5/25/31

File 11-6

~~11~~

~~Level 3~~

Rd Thru center of
sec. 31 of White Bear.
Rice St to Vadnais Blvd.

~~11~~

45
40 8403
✓ 415.97
71.24
✓ 491.31

Sta.	+	14.1 ✓	-	Red.	Elev.
	0.36	925.49			925.13
0+00				2.02	23.17
+19				2.3	23.2
+21				3.3	22.2
+50				4.7	20.8
1+00				7.0	18.5
+50				10.4	15.1
2				14.7	10.8 ✓
T.P.	0.13	912.72	12.9		912.59
+50				9.1	03.6
3				15.6	97.1 ✓
T.P.	0.17	899.53	13.36		899.36
+50				8.6	90.9
4				14.2	85.3
+14				15.2	84.3
+37				11.3	88.2
5+00				13.8	85.7 ✓
T.P.	0.01	886.66	12.88		886.65
6				2.6	84.1
7				3.8	82.9
8				4.4	82.3 ✓
B.M.			3.89		882.77
9				4.7	82.0
10				4.9	81.8
11				4.6	82.1
12				3.9	82.8 ✓
T.P.	12.80	895.77	3.69		882.97

R.R. spike in P.P. Int. Onwassa⁸⁴ Rice St.
L Rice St.

Toe Slope

Top Shoulder

spike in 10" Birch 42' Lt 8+45

895.77 ✓

12 + 29	13.0	82.8
+ 44	15.7	80.1
+ 65	13.6	82.2
+ 72	12.2	83.6
+ 90	10.8	85.0
13 + 00	10.8	85.0
+ 36	10.0	85.8

14	9.6	86.2
+ 28	8.6	87.2
+ 36	1.4	94.4
+ 50	0.5	95.3 ✓

T.P. 13.76 908.82 0.71 895.06 ✓

15	9.6	99.2
+ 74	1.7	07.1
16	0.8	08.0
+ 14	1.5	07.3
17	7.8	01.0
+ 50	10.2	98.6

18 11.4 97.4 ✓
T.P. 13.72 912.04 10.50 898.32 ✓

19	13.4	98.6
20	10.2	01.8

21 4.0 08.0 ✓
T.P. 13.05 924.89 0.20 911.84 ✓

22	11.5	13.4
+ 50	8.5	16.4

Edge of fill

Toe of "

E Road. Water Wks Pk.

Toe Cut.

924.89 ✓

22 + 93				3.3	21.6
23				6.7	18.2
+31				5.0	19.9
+35				0.7	24.2 ✓
T.P.	133	925.72 ✓	0.50		924.39
24				0.8	24.9 ✓
B.M.			204		923.68
+70				2.4	23.3
25				6.5	19.2
+46				13.9	11.8
26				12.7	13.0
+38				11.7	14.0
+53				13.7	912.00 ✓
T.P.	030	913.74 ✓	12.28		913.44 ✓
27				16.7	97.0 ✓
T.P.	0.19	900.31 ✓	13.62		900.12 ✓
T.P.	0.93	888.50 ✓	12.74		887.57 ✓
+36				8.0	80.5
28				9.8	78.7
29				11.4	77.1
30				12.4	76.1
31				12.6	75.1 ✓
B.M.			19 5.00		883.50
T.P.	12.61	888.89	12.32		876.28 18
32				12.2	76.6
33				11.2	77.6

(Colder than hell)

2-3-31

} Pot Hole.

S.W. cor. Ment 24+66.35

Toe of Slope.

Spike in 14" N.O. 80' Rt. Sta. 29+00-

888.89¹⁹

33+37			9.8	79.0
+73			7.8	81.0
34			4.0	84.8
T.P.	13.68	902.30 ²⁰	0.27	888.62 ⁵²
+55			7.4	94.8
35			4.2	98.0
36			7.8	94.4
+25			7.8	94.4
37			2.6	99.6
T.P.	6.41	908.45 ³⁵	0.26	902.04 ^{901.94}
+50			3.5	04.9
38			0.8	07.6
+19			1.1	07.3
39			12.2	96.2
+33			14.0	94.4
40			14.0	94.4
B.M.	6.95	903.30 ²⁰	10.10	898.25 ^{2.5}
+50			12.4	92.8
41			15.5	89.7
+45			18.0	87.2
42			11.3	93.9
T.P.	11.20	915.94 ⁴⁴	0.56	904.74 ⁸⁴
+76			5.6	10.2
43			2.8	13.0
+40			5.8	12.5
44			11.0	04.8

Spike in 16" B.O. 45 Lt - 40406

84
915.94

44+27

14.0

01.8

45

17.0

98.8

+84

18.2

97.6

B.M.

3.95

36
906.46

13.43

902.51 41

T.P.

1.85

897.59

10.52

895.94 84

B.M.

69

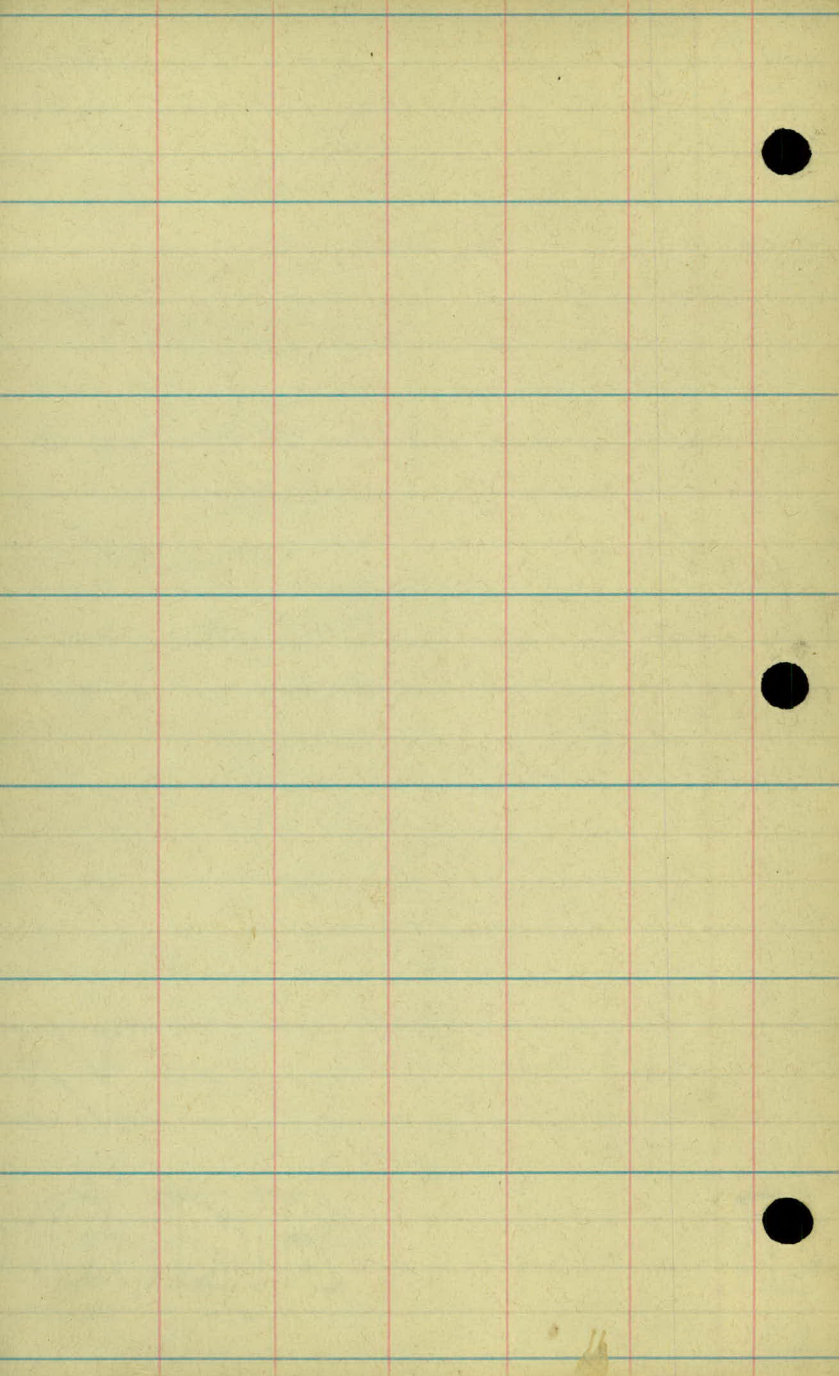
9.13

888.66 56

£ Rd.

Top Mont. So. Point.

Spike in 30" Tree. So Side Vadois
Bld. 280' E. of Sec. line. Elev. 888.51



Vadnais Blvd.
± Elevations

Sta. 0+00 To 62+71.?

3-11-31

STA	+	H.I.	-	Rod-	Elev
B.M.	0.40	930.13 ✓			929.73
0+00		£ Rice St.	1.85.		928.28
+10		Edge Pave.	1.93		928.20
+25			3.3		26.8
+50			4.3		25.8
1+00			5.6		24.5
+50			6.6		23.5
2			8.6		21.5
+50			10.6		19.5
3			14.0		16.1
T.P.	0.82	918.18 ✓	12.77		917.36 ✓
+33			38		14.4
+50			5.6		12.6
+63			8.5		09.7
4			13.6		904.6
T.P.	0.25	905.12 ✓	13.31		904.87 ✓
5			13.0		892.1
T.P.	0.69	892.75 ✓	13.06		892.06 ✓
+50			5.8		89.0
6			8.8		84.0
+36		Toe Slope	9.4		83.4
+47			6.7		86.1
7			7.6		85.2
+50			6.0		86.8
8		Top Shoulder	6.3		86.5
+50			7.3		85.5
B.M.	6.05	890.70 ✓	8.10		884.65 ✓

Spike in 14" Twin Oak 75' N.W. 0+00

L.R. spike N. side TP 6' Lt' 8+04

Sta.	+	H.I.	✓	Red	Elev.
		890.70			
9				5.5	985.20
+50				5.1	85.6
10				4.9	85.8
+50				4.8	85.9
11				4.8	85.9
+50				4.8	85.9
12				4.7	86.0
+50				4.8	85.9
13				4.8	85.9
+50				4.8	85.9
14				4.5	86.2
+50				4.5	86.2
T.F.	3.60	889.98	✓ 4.32		886.38
15				3.9	86.1
+50				3.9	86.1
16				4.0	86.0
+50				4.2	85.8
17				4.4	85.6
+50				4.4	85.6
18				4.6	85.4
+50				4.9	85.1
19				5.4	84.6
+50				5.5	84.5
20				5.2	84.8
+50				5.1	84.9
21				4.9	85.1

Top Stake 12' Rt Sta. 14+51

8
889.95

21	+50			4.8	885.2
22				4.7	85.3
T.P.	12.42	898.5 ⁶⁰	3.80		886.1 ⁸
	+50			13.1	85.5
23				12.6	86.0
	+50			11.8	86.8
24				9.9	88.7
	+50			6.7	91.9
B.M.			13.45		885.1 ⁵
25				3.5	95.1
	+50			2.0	96.6
	+72			1.2	97.4
	+80			0.0	898.6
T.P.	13.72	912.2 ⁵²	0.0		898.5 ⁶⁰
26				12.1	900.2
	+25			9.7	02.6
	+50			8.7	03.6
	+65			10.2	02.1
27				8.4	03.9
	+50			5.2	07.1
28				1.9	104
T.P.	13.31	924.8 ⁹⁶	0.71		911.5 ⁶¹
	+50			13.0	11.9
	+70			8.0	16.9
29				5.6	19.3
	+50			4.2	20.7

Top Stake. 11' Rt. 22+07¹³ P.T.

Spike in 12" Elm 100' Lt 24+60

N. edge of present traveled Road.

Bottom N. Gutter

Top " "

Top Slope N Side.

Toe " " "

Toe Slope S. side Rd.

Sta	+	H ¹ ₉₂ 924 ⁹²	-	Rod	Elev.
30				2.7	922.2
+50				1.6	23.3
T.F.	7.67	931 ⁹² 94	0.62		924 ³⁰ 127
31				9.0	23.0
+50				9.5	22.5
+79				8.7	23.3
32				6.5	25.5
+22				4.2	27.8
+64				5.2	26.8
+68				6.2	25.8
33				5.2	26.8
+50				4.7	27.3
34				5.4	26.6
+50				6.4	25.6
35				7.4	24.6
+50				8.4	23.6
36				9.4	22.6
B.M.	0.78	925 ³⁵ 32	7.40		924 ³⁵ 54
+50				3.9	21.5
37				4.9	20.5
+50				6.4	19.0
38				7.3	18.1
+50				8.1	17.3
39				9.1	16.3
+50				10.4	15.0
40				11.8	13.6

Point on Rock.

Top Ditch

Bottom Ditch

Wedge Present traveled Rd.

Spike in 18" B.O. 29' Rt. 36+26

Station	+	H.I.	Minus	Red.	Elev.
		³³ 925.62			
T.P.	0.16	913.45	12.06		913.29
40+50				1.8	911.7
41				4.1	09.4
+50				6.1	07.4
42				7.9	05.6
+50				9.1	04.4
43				9.8	03.7
+50				9.8	03.7
44				10.2	03.3
+45				11.0	02.5
+49				11.8	01.7
+62				10.2	03.3
T.P.	6.06	⁹ 908.90	10.52		902.90
45				6.7	02.3
+42				7.2	01.8
+65				5.5	03.5
46				5.5	03.5
+50				7.7	01.3
B.M.			7.74		⁵ 901.22
47				8.0	01.0
+50				6.6	02.4
48				4.2	04.8
T.P.	4.00	⁸ 910.75	2.21		906.75
+50				4.0	06.8
49				6.6	04.2
+26				7.8	03.0

(T.P. Bel. 2 R.)

W. edge of present Road

Bottom Gutter " "

Top Slope " "

Spike in 16" W.O. 40' Rt. 46 + 46

Top Cut

910.7⁸

+42				11.3	899.5
50				11.6	99.2
+50				12.0	98.8
51				12.4	98.4
T.P.	0.45	898.78 ⁸¹	12.42		898.3 ⁶
+50				0.9	97.9
52				1.4	97.4
+50				1.9	96.9
53				2.9	95.9
+50				4.1	94.7
54				6.4	92.4
+50				8.7	90.1
55				11.1	87.7
B.M.			10.2		888.5 ⁶¹
T.P.	2.63	888.60 ⁴	12.80		886.01 885.98
+50				4.9	83.7
56				9.4	79.2
+50				9.6	79.0
57				9.5	79.1
+50				9.3	79.3
58				10.4	78.2
+30				9.4	79.2
+53				5.1	83.5
59				5.1	83.5
+50				5.2	83.4
T.P.	6.50	889.9 ⁷	5.17		883.4 ⁷

SWAMP

Toe of Slope

Top Fill
280' E of M.C.

Toe Fill

Toe fill

Sta	+	H.I. ⁷	-	Rod	Elev.
		889.96			
60				5.5	884.5
	+50			5.2	84.8
61				5.2	84.8
	+50			5.0	85.0
62				3.6	86.4
	+50			2.1	87.9
62+73.23		End Survey.		1.4	88.6
B.M.		0.68			889.26

Spike in 14" No. 13' R⁴

Sta. 62+75

E

← 54°25' →

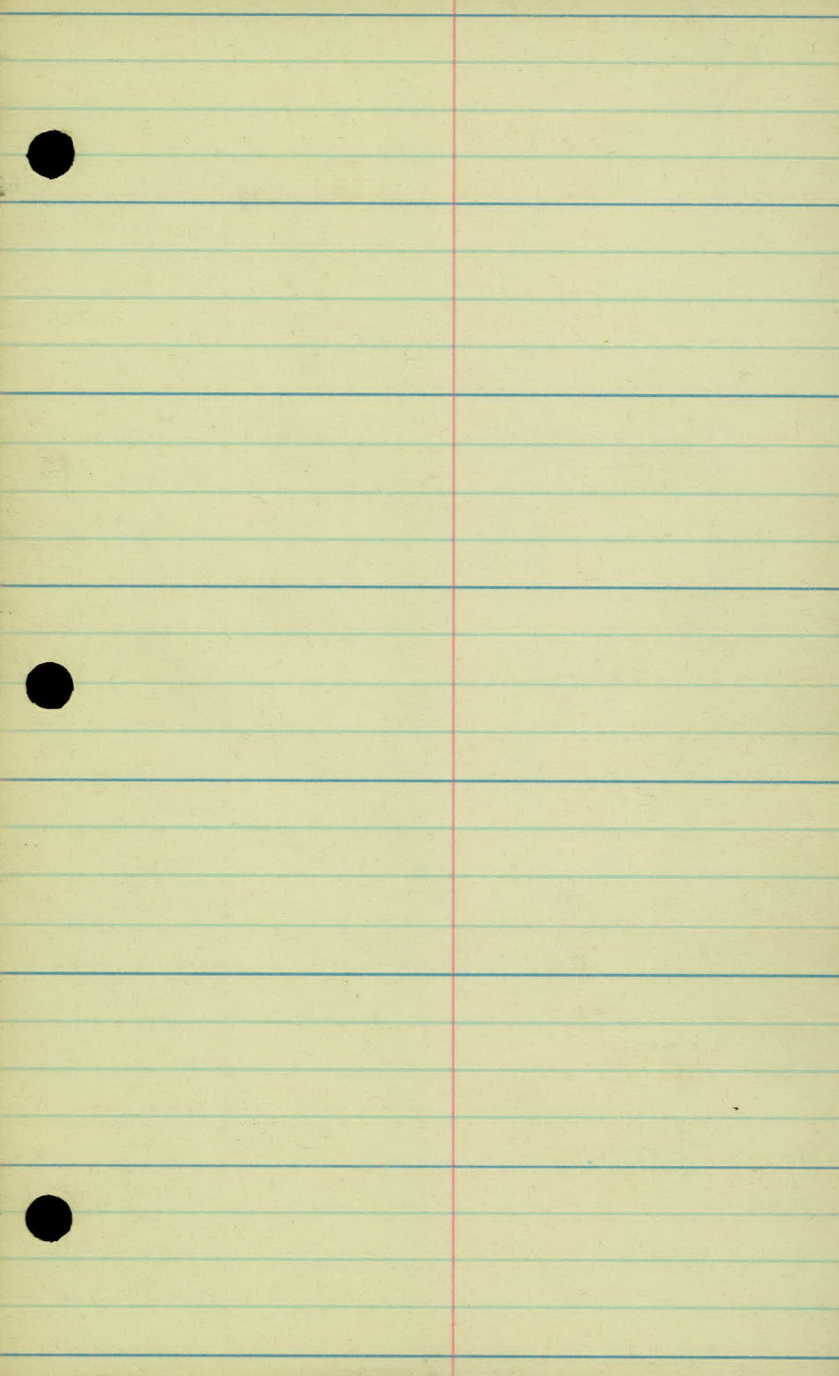
E. line Sec 31-30-22

58+24.80

spike

M.C. 10830





14+65⁷⁵ P.I.

$\Delta = 15^{\circ} 22' R$

D

T

L

R

11+23' P.I.

$\Delta 15^{\circ} 26' L$

D=

T=

L=

R=

1522°
spike

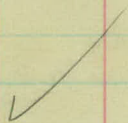
10°

1526°
spike

10°

38+20⁶⁵ P.O.T.

27+65³⁵ P.I.



23° 30'

D 50

Δ 10° 40' 17

24+31⁸⁵ P.O.T.

21+97⁰ P.O.T.

spike

10°40

54+41.40

51+71.12 Int. Sec. line

46+20° P.O.T.

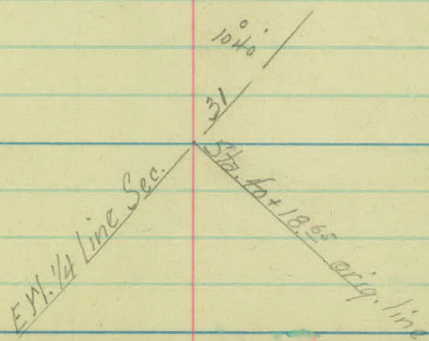
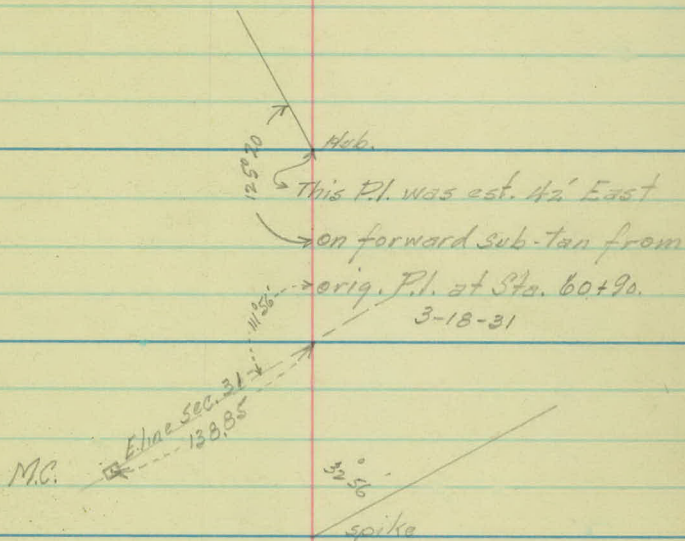
42+89.9 P.O.T.

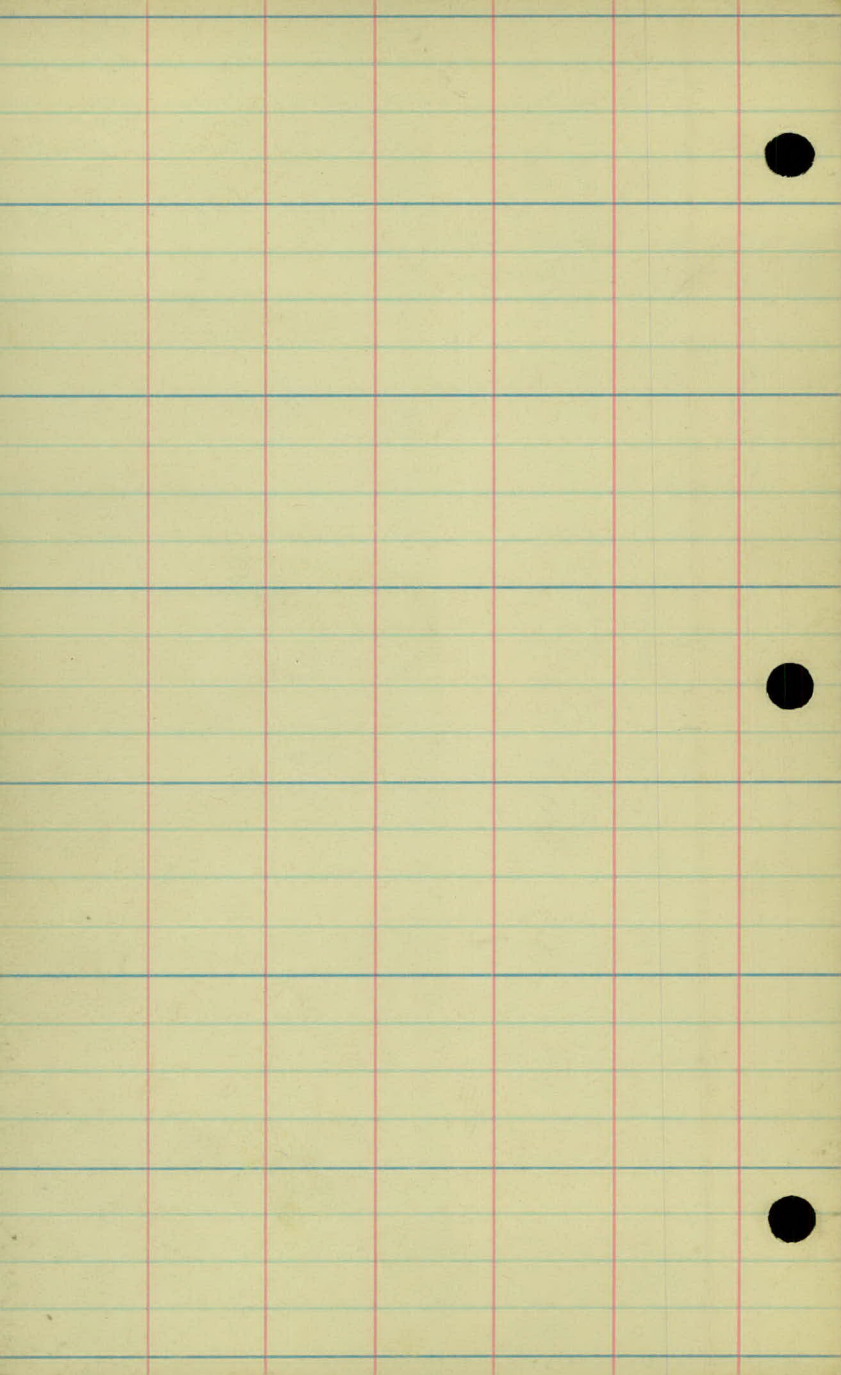
40+83.40 P.I.

Δ 32°56' A.

40+06.10 Int. E+W. 1/4 line Sec. 31 T30 R22

5-19-31





Topog Notes A. Line
From Sta. 11 + 23 To 53

16

15

14

13

12 + 00

11 + 23

Orchard

Hay
Meadow

9

+12 Beg Orchard 13'
+12 Beg Evergreen along F
+12 Beg F line on E

Location of Fr. Dwl.
Same as Orig. Topog.
Notes.
Between Sta. 15-16

+00 E Rd. 03.

+00 E Rd. 18'

+81 Kcep off sq. 7'

+52 E Present Rd.
+45 E Water Wks 1/4.

+01 E Rd. 15'

+75 Edge Swamp
+70 Clump 5-8" Willows E
+65 Clump 5-8" Willows 32'

+00 E Rd. 22'

+85 Edge Swamp

+46 Edge Rd Bed.

23

22

21

20

19

18

17

+38 Beg. Berry
Patch 15'
L Rd 8'

Pasture

Pasture

+64 Int. F.
L Rd 10' End. + + + +

L Rd 7'



+85 Cont F 16'

L Rd 7'

F 17 L Rd 7'

L Rd 7'

F 19 L Rd 7'

L Rd 7'

F 19 L Rd 7'

Scattered Oaks

+62 End Orchard Beg. Cult.
+62 End Evergreens.

L Rd 7'

F 19 L Rd 7'

+89 X Drain.
10" x 16" C.M.



+47 F Cor 18'

L Rd 7'

L Rd 7'

30

29

28

27

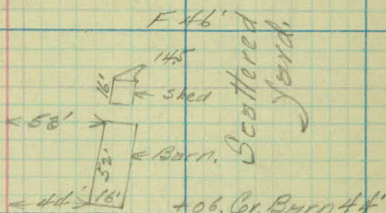
26

25

24

+58 End Scattered Oaks

Scattered Oaks.



+50 F 16

x x x x x +25 Int F. 12

F 8' & Pl. 15' End Ev. Grs 8'

+78 Beg. Row Ev. Grs 3'

+65 & Pl. 8'

+63 Orchard 17'

+53 End Berries 14'

+14 Beg. Berry Pl. 14'

+14 F Running 14'

& Pl 7'

+20 Row 3 Ev. Grs. &

+35 End Ev. Grs. &

+90 Beg. Ev. Grs. &

+69-16" Oak 32'

& Pl 7'

& Pl 7'

+95 End Berry Patch 14'

& Pl. 8'

37

36

35

34

33

32

31

Pasture

Edge of bluff

Lake 13

46

48

Lake 12

Lake

+34 Group Oaks 37

40

5" Lake 11

Twin

F 65'

Lake Edge 130'

+77-18" Oak 30'

Pasture

+28 Int. F

F 26'

+89 15" Oak 37

Waste land

+47-14" Oak 36

+14-15" Oak 14'

44

43

42

41

40

39

38

+ 74-20" N.O. 8'

+ 10-15" O 16'

+ 50-12" O - 34'

+ 96-12" O 31'

+ 65-8" O 6'

+ 53-10" O - 10'

+ 57-3-8" O 20'

+ 41-15" O 26'

+ 99-18" O 7'

F 67

Reforested Area.

+ 38-18" B.O. 48'

Lake 167

+ 68 Int. F.

+ 52-22" O or 13'

F 21'

F. 50'

Edge of bluff

160 Lake

Pasture

74-10"

Lake 160

52

51

50

49

48

47

46

45

E Rd 31'

+93 Int. F.

+58 T.P. 31
+50 End iron F

F. 05.

+92-12" Golden Willow

+82-16" Willow Stump
2'

+55 End Brush 70'

Edge Brush 46'

Edge Brush 75'

+65 End 3+4" Saplings
Beg. Swamp.

SWAMP

+33± Pr. Dr.

+16 Tw. 12" O 18'

+56 Tw. 6" Birch 4

+28 Beg. Small Trees.

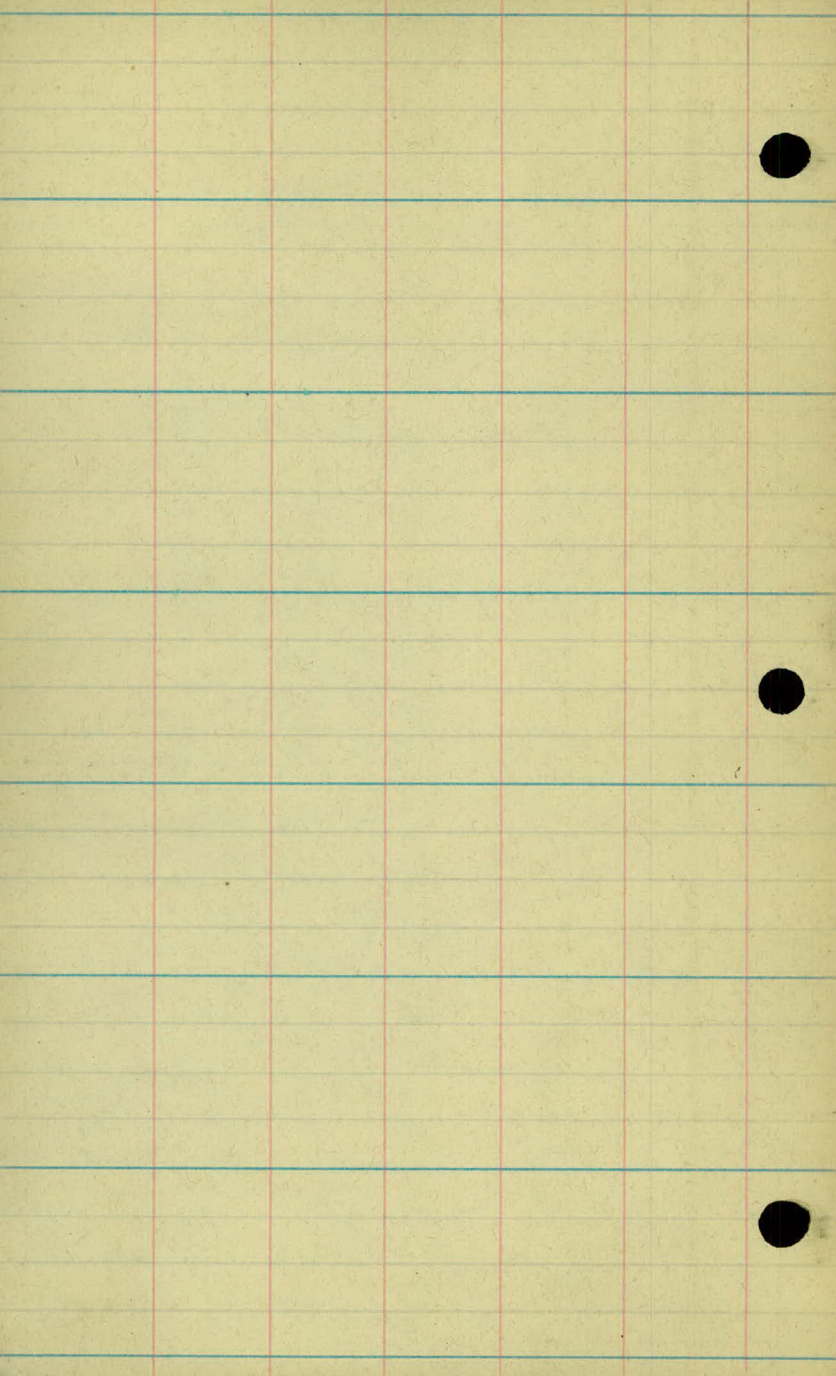
+00 End Reforested Area.

53

54

E Rd 3'

Topog Same as
Vadnais Blvd. notes.



£ Elev. on "A" line
Sta. 11+23 To

Sta.	+	H.I.	-	L. Rod.	Elev
B.M.	3.78	886.55 ✓	✓		882.77 ✓
T.P.	6.87	889.68	3.74		882.81
11+23				7.5	82.2
+48				7.8	81.9
+65				9.5	80.2
+74				10.5	79.2
12				9.5	80.2
+50				10.0	79.7
+64				8.5	81.2
+80				7.8	81.9
+84				4.6	85.4
13				4.5	85.2
+50				4.1	85.6
14				3.7	86.0
+18				2.8	86.9 ✓
T.P.	13.58	902.61 ✓	0.65		889.03 ✓
+47				8.2	94.4
15				3.3	99.3 ✓
T.P.	5.48	907.76 ✓	0.33		902.28 ✓
+50				3.1	04.7
+87				0.8	07.0
16				1.6	06.2
+50				5.2	902.6
17				9.8	898.0
+50				12.2	95.6
18				12.4	95.4
+50				9.3	98.5

3-24-31

(Much to windy.)

Top Shoulder

Toe Shoulder

& Ditch

Toe Fill

Top Fill.

+

907.76

19 4.5 903.3
 T.P. 13.3 1920.41 0.66 907.10

+50 12.3 18.1

20 6.6 13.8

+50 3.2 17.2

T.P. 9.75 929.66 0.50 919.91

21 7.5 22.2

+40 5.0 24.7

22 4.2 25.5

23 4.7 25.0

24 5.0 24.7

B.M. 607 923.59 923.69

+50 5.4 24.3

25 7.2 22.5

+50 10.3 19.4

26 11.5 18.2

+50 8.2 21.5

T.P. 3.52 925.28 7.90 921.76

27 3.7 21.6

+30 4.7 20.6

+65 3.6 21.7

28 2.0 23.3

+50 3.6 21.7

29 5.5 19.8

+29 7.2 18.1

+50 10.2 15.1

S. 14. cor Mont Ctr Sec 31

P. 1.

+

✓ -

925.28

+62

12.4

12.9 ✓

T.P.

0.60

913.76 ✓

1212

913.16

30

5.3

08.5

+47

13.2

900.6 ✓

T.P.

0.92

901.08 ✓

1360

900.16

+67

8.0

893.1 ✓

T.P.

1.85

890.27 ✓

1266

888.42 ✓

+92

8.7

81.6

31

9.5

80.8

+50

11.7

78.6

32

10.9

79.4

+50

9.4

80.9

33

8.0

82.3

+50

9.2

81.1

+76

8.4

81.9

+82

14.0

76.3

+90

8.2

82.1

34

8.0

82.3

+50

7.0

83.3

35

3.0

87.3 ✓

T.P.

13.09

920.5 ✓

1.31

888.76

+30

10.2

91.9

+60

8.4

93.7

36

8.4

93.7

+50

4.6

97.5

37

0.5

01.6

& Ditch

		902.05 ✓				902.05 ✓
T.F.	6.08	908.13 ✓	0.00			
37 + 50				2.6		05.5
38				0.7		07.4
+ 50				5.8		02.3
39				12.4		95.7
+ 50				14.1		94.0
40				14.3		93.8
B.M.	2.14	900.30 ✓	9.97			898.16 ✓
+ 50				8.3		92.0
+ 83				9.3		91.0
41				10.6		89.7
+ 32				13.3		87.0
+ 50				12.4		87.9
42				8.3		892.0 ✓
T.F.	10.31	909.21 ✓	1.40			898.90
+ 50				8.6		900.6
43				4.0		05.2
+ 50				4.0		05.2
44				5.7		903.5
+ 50				9.5		899.7
45				10.2		99.0
+ 50				10.5		98.7
46				13.7		95.5 ✓
T.F.	0.37	895.91 ✓	13.67			895.54
+ 50				3.8		92.1
47				5.8		90.1

spike in 16" B.O. 45' Lt Sta 40+06 Orig line

P.L.

895.91 ✓

47 + 19	7.8	88.1
+ 24	11.6	84.3
+ 30	11.6	84.3
+ 37	11.6	84.3
+ 40	10.4	85.5
+ 50	12.0	83.9 ✓

T.T. 0.14 ✓ 883.68 12.37 883.54 ✓

+ 65	1.9	81.8
48	3.7	80.0
+ 40	5.8	77.9
+ 45	5.0	78.7
49	5.4	78.3
50	5.4	78.3
51	5.6	78.1
+ 50	5.7	78.0 ✓

T.T. 11.02 ✓ 889.69 5.01 878.67 ✓

52	10.7	79.0
+ 0.5	10.7	79.0
+ 15	6.4	83.3
+ 50	5.7	84.0
53	5.3	84.4
+ 50	5.5	84.2
+ 66	9.2	80.5
54	9.7	80.0
+ 41.5	9.2	80.5 ✓

B.M. 0.56 889.13 ✓

± Pr. Dr.

Edge Swamp

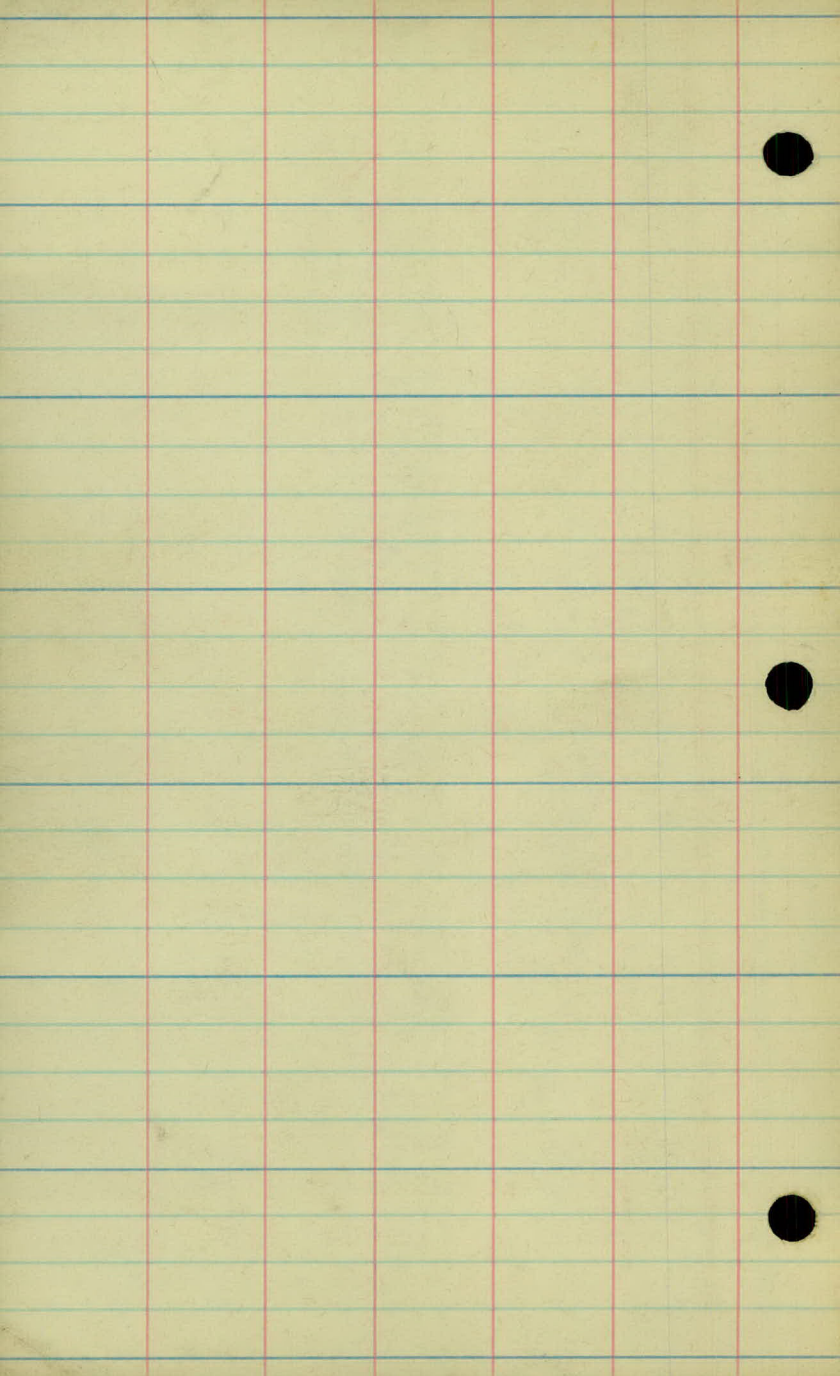
Toe Slope

Top "

Top Fill

Toe Fill

P.I.



Curve
Connecting 2nd
line thru center
of section with
Vadnai's Blvd.

+18³⁹ P.T.

50

49

48

47

46

45

44+71⁴ P.I.

44

43

42

41

40

39

38+55⁸⁷ P.C.

23°15'

22°53'

20°53'

18°53'

16°53'

14°53'

12°53'

10°53'

8°53'

6°53'

4°53'

2°53'

0°53'

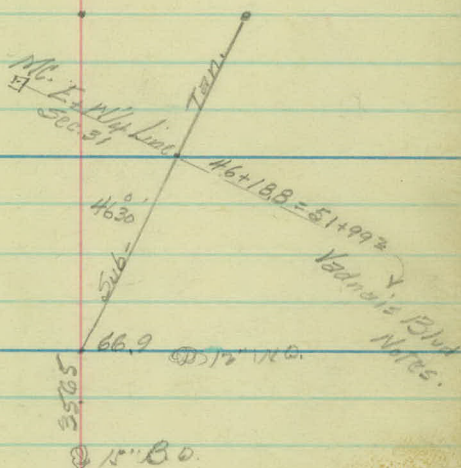
$$\left. \begin{array}{l} \Delta R_t = 46^{\circ} 20' \\ D = 4^{\circ} \\ T = 615.527 \\ L = 1162.50 \\ R = 1432.69 \end{array} \right\}$$

Very windy + cold.
Sat. A.M.

3-28-31

Weber
Skoglund
Beaton
Milke
Bell

A² Line



Sta.	+	H.I.	-	Rod	
B.M.	6.51	904.67	✓		898.16 ?
38+55B7	F.C.			3.1	901.6
39				8.9	895.8
+50				10.6	94.1
40				11.2	93.5
+50				13.5	91.2
41				16.5	88.2
+25				17.5	87.2
+50				16.0	88.7
42				9.1	895.2
T.P.	11.16	915.23	✓	0.60	904.07 ✓
+52				7.8	907.4
+80				3.7	11.5
43				3.0	12.2
+41				4.2	11.0
44			✓	11.8	03.4
T.P.	3.23	907.50	10.96		904.27
+42				8.0	99.7
45				8.8	98.7
+50				7.1	00.4
46				5.6	01.9
+65				3.2	04.3
+78				12.5	95.0
47				12.7	94.8
+23				9.0	98.5
+54			✓	15.0	92.7 ✓
T.P.	0.40	894.51	1239		894.11

3-30-31

Spike in 16" B.O. 45' Lt. Sta. 40+06'

Top Stake 44+00

89451

47+57

3.5 91.0

48

5.6 88.9

+50

7.2 87.3

+64

10.5 84.0

+79

11.5 83.0

+85

14.5 80.0

49

13.2 81.3

+50

15.8 78.7

50

15.6 78.9

+18

P.T.

15.4 79.1

BM

604

888.47

2-6-31

{ Don Weber
Stooglen
Beaton
Wilke
Golish

Lake Vadnais Blvd.

Relocation of Alignment from
Rice St. Sta 0+00 To 62+73³³

Sta. Point ΔL ΔP

N 77° 47' E

11+27.86 P.T. 24° 53'

11 22° 39' 30"

+50 18° 39' 30"

10 14° 39' 30"

9+83.45 P.I.

+50 10° 39' 30"

9 6° 39' 30"

+50 2° 39' 30"

8+16.82 P.C. ✓

$\Delta = 49.46'$ H.

$D = 16^\circ$

$T = 166.63$ ✓

$L = 511.04$ ✓

$E = 359.265$ ✓



S 52° 27' E

3+28.62 P.T. ✓

18° 26' ✓

3 16° 43'

+50 13° 43'

2 10° 43'

1+80.83 P.I.

+50 7° 43'

1 4° 43'

+50 1° 43'

0+21.40 P.C. ✓

$\Delta = 36.52$ H.

$D = 12^\circ$

$T = 159.43$ ✓

$L = 307.22$ ✓

$E = 478.339$ ✓

0+00

S 89° 19' E

{ 3-5-31
 Neber
 Shoglen
 Beaton
 Wilke
 Golish

4946

8+79¹⁵ P. Crane line

T.P. 52.57

Hub.

56.35

Iron prop. line

15' B.O.B.
 56.45
 33.60
 30' B.O.B.
 36.52

24" B.O.

66.75

90° 41'

30" B.O.

64.20

4 Line

Sec.

1

Hokin

Line

St.

Pave.

Sta Point Lt Δ R Δ

N 57° 50' E

+07.13 ✓ 6° 22' ³⁰

22 6.14

+50 5.14

21 4.14

+50 3.14

20 + 48.43 P.I.

20 2.14

+50 1.14

19 0.14

18 + 88.38 ✓

 Δ 12.45

D 4.00

T 160.06 ✓

L 318.75 ✓

R 1432.69 ✓

N 70° 35' E

+11.89 P.T. ✓ 3° 36'

16 3° 29'

+50 2° 59'

17 2.29

+50 1° 59'

16 + 32.15 P.I.

+50 1.29

15 0° 59'

+50 0° 29'

14 + 51.89 P.C. ✓

 Δ 7.12

D = 2°

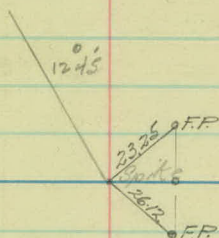
T = 180.26 ✓

L = 360.0 ✓

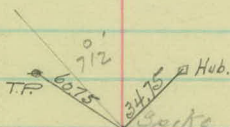
R = 2864.93 ✓

3:6:31

19+48⁶³ P.C. line



15+32³ P. Crane line



Sta. Point Alt. ΔR

541011E

+20

P.T. ✓

40°29'30" ✓

31

39°29'30"

+50

36°59'30"

30

34°29'30"

+50

31°59'30"

29

29°29'30"

+50

26°59'30"

28

24°29'30"

26 + 00

P.I.

+50

21°59'30"

27

19°29'30"

+50

16°59'30"

26

14°29'30"

+50

11°59'30"

25

✓ 9°29'30"

+50

6°59'30"

24

4°29'30"

+50

1°59'30"

23 + 10¹⁷

P.C. ✓

$\Delta 80°59' R$

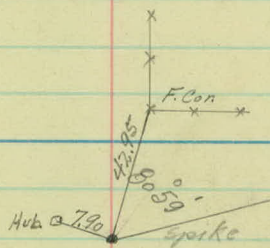
$D 10°$

$T = 482.834$ ✓

$L = 809.833$ ✓

$R = 573.686$ ✓

$E = 180.5$ ✓



(New)

ΔL ΔR

554°17'E

49+36⁵¹ P.T. ✓ $7^{\circ}45'$ $\Delta 1531$ Et.

49 $6^{\circ}50'$ D 5°

48 $4^{\circ}20'5$ T 156.17 ✓

47+82.3⁵ P.I. $L 310.333$ ✓

49 $1^{\circ}50'5$ R 1146.28 ✓

46+26¹⁸ P.C. ✓

569°48'E

40+84⁰³ P.T. ✓ $8^{\circ}5'$ $\Delta 1754$ Lt.

+50 $6^{\circ}54'30$ D 12°

40+10²⁰ P.I. $T 75.34$ ✓

40 $3^{\circ}54'30$ L = 149°17' ✓

39+34⁸⁶ ✓ $0^{\circ}54'30$ R 478.34 ✓

551°54'E

38+35⁴⁰ ✓ P.T. $5^{\circ}21'30$ $\Delta 1043$ Lt.

38 $4^{\circ}23'$ D = 5°30

37+38³⁰ P.I. T = 97.74 ✓

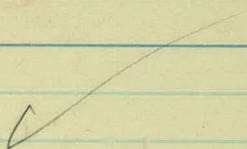
37 $1^{\circ}38'$ L = 194.84 ✓

36+40⁵⁶ P.C. ✓ R 1042.14 ✓

3-9-31

(New.)

153°
Spike



39+898 P. Crane line

1754°
25.62
Spike
24.88
1 Nail
1. Post.
Roosting nail

1043°
Spike

37+179 P. Crane line

44

N 57° 23' E

62+73.23 P.T. ✓ 34° 10'

+50 32° 18' 30"

62 28° 18' 30"

+50 24° 18' 30"

61 20° 18' 30"

60+90.2 P.I.

+50 16° 18' 30"

$\Delta = 68^{\circ} 20'$

$D = 16^{\circ}$

60 12° 18' 30"

T 243.85 ✓

+50 8° 18' 30"

L 427.08 ✓

59 ✓ 4° 18' 30"

R = 359.265 ✓

58+46.15 P.C. ✓

51+99.2 P.O.T. E + N 1/4 line Sec 31 T30R22

3-10-31

$P.T. = \frac{62 + 73}{63 + 40 + 54} = \text{End Survey}$
 Root Map Survey

P.I. on P. C. line Sta. 62 + 27.55
6820

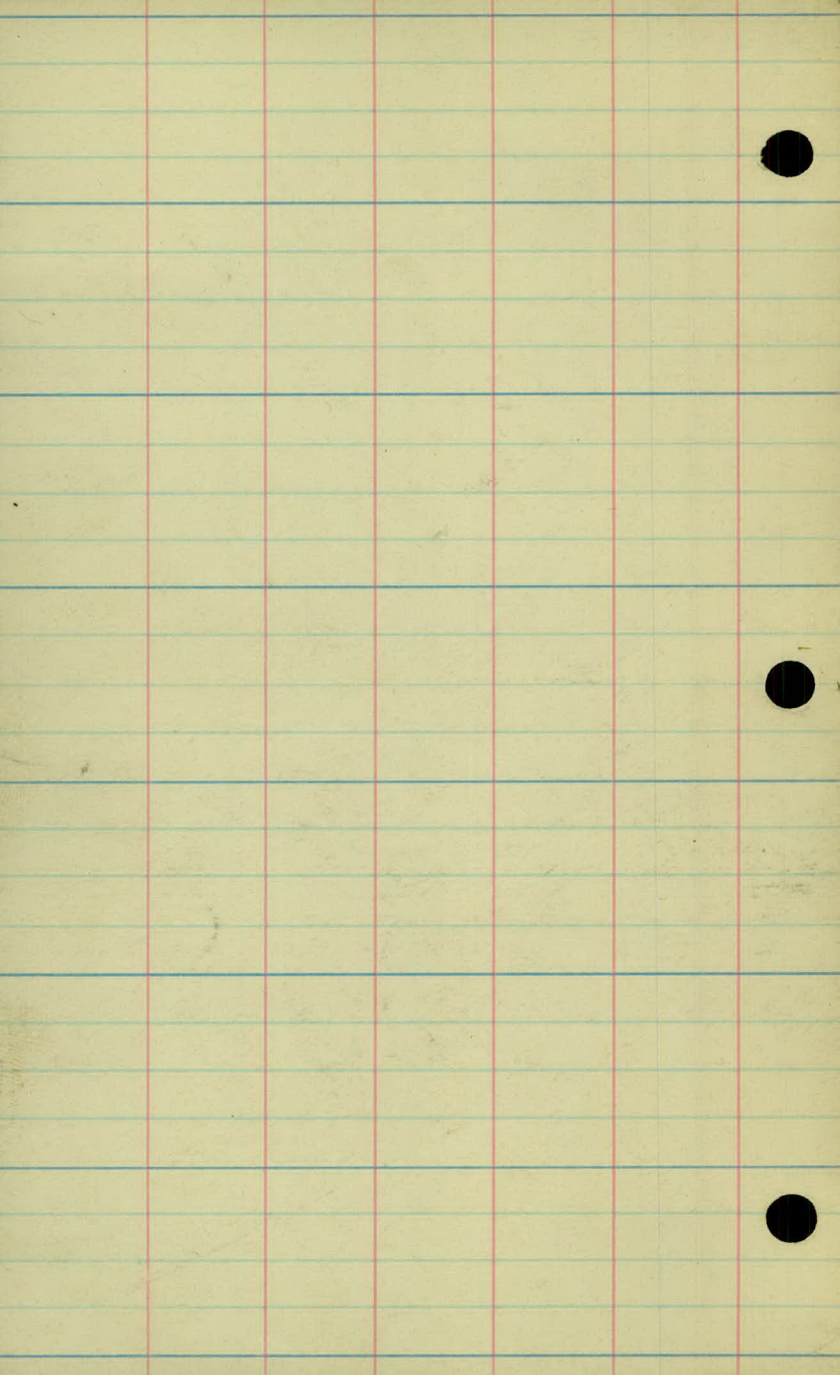
146. P.I.

Lake Vadnois

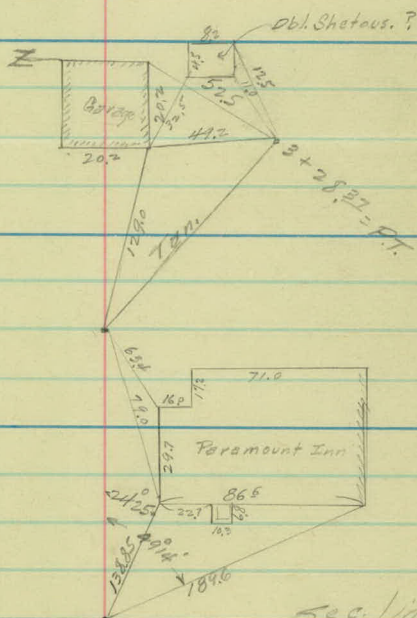
M.C. 2951
36.25

Sp. 170

E. 1/4 Sec. 31



(Location Paramount INN)



P.I. 1+80.83

Rice St. 0+00

Sec. line.

Location of
Paymount Inn.

Topography Survey
Vadnais Blvd.

5

4

3

2

1

0+00

+87-3-6" Will 30'

Waste land.

Cultivated

+66 End Coll.

+85 Beg Coll.

+40-30" O - 28' Picnic

Grounds

+08-20" O 35

+44-18" O 35
+41-10" O 02'
+23-8" O 26'
+12-18" O 44'

Grounds

+30-18" O 50'
+19-6" O 15.3

+91-14" O 30.5
+90-14" O 16'
+65-14" O 65
+49-20" O 19'
+47-12" O 24'

Picnic

+82-24" O 29'
+67-18" O 37'
+65-14" O 32'
+61-16" O 22'
+55-24" O 39'

90° 41'

Vadnais Blvd.

Rice St.

Southern Oak Wood

12

11

10

9

8

7

6

+99 Rd. 5g. 18'

13 12

+42 T.P. 23'

14 12

12 14'

+69 T.P. 16'

9 17'

6 20'

low land.

+04 T.P. 6'

± Present Rd 10' G.R. 4

+50 G.R. 03.

low
land

± Present Rd. 19.5 G.R. 8'

+59 G.R. 23'
+41 T.P. 19'

19

18

17

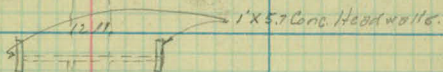
16

15

14

13

+ 81' Ctr. Cross Drain
24" x 28' C.M.



11 11

11 11

+ 89 T.R. 16'

6

+ 04 T.R. 21'

12 12

12 12

+ 21 T.R. 21'

13 13

26

25

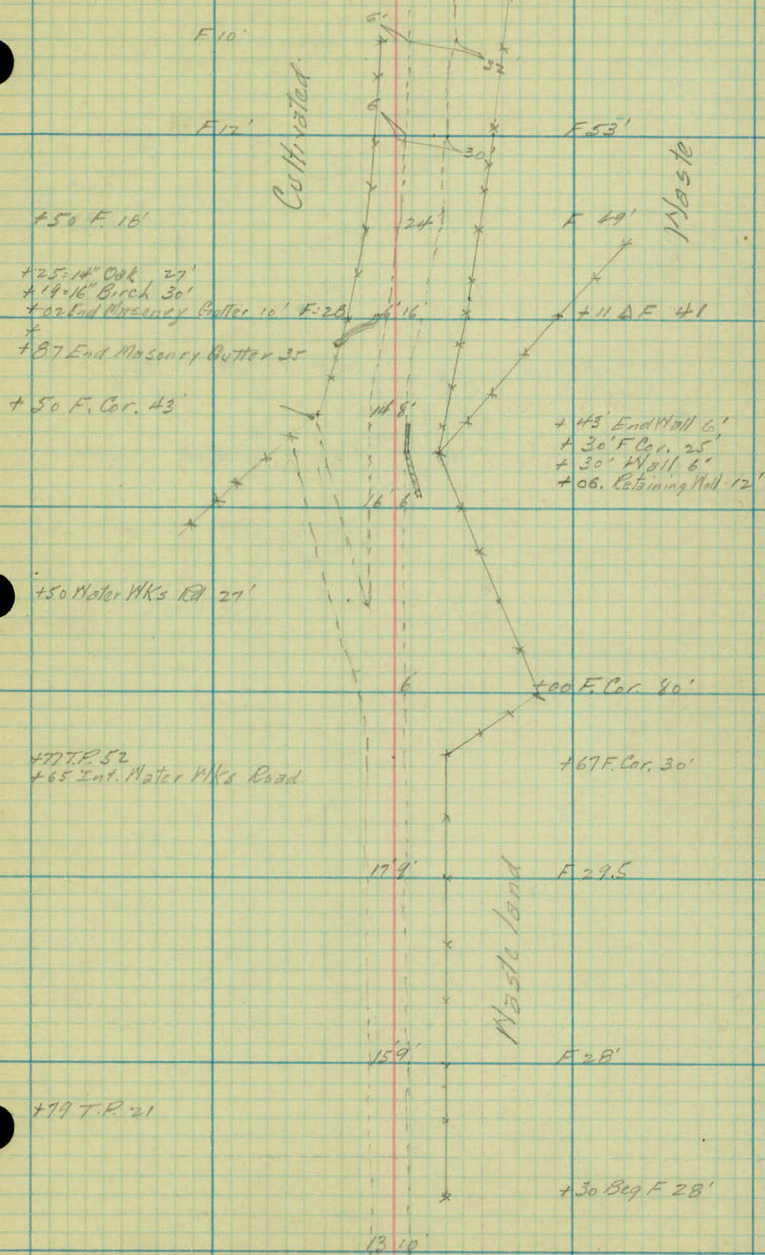
24

23

22

21

20



33

32

31

30

29

28

27

Reforested Area.

Reforested Area.

+67-15" W.O. 27'

F 40'

236

F 17'
+94-16" Oak 16'

+49 Int. F. $\frac{1}{2}$
+32-18" W.O. 4' 4"

F 20'

+408 Int. F. x x

F 44'

+50 F 53'

F 58'

Cultivated

+50 F 27'

+07 Int. F. $\frac{1}{2}$
F 04.

F 25'

+22 Rd Sq 10'

F 31'

11 11

F 19'

222

Waste.

F 12'

5

28'

40

39

38

37

36

35

34

Reforested Area.

Reforested Area.

F 29'

+60-14" B.O. 33'

F 27
+98-12" W.O. 31'

+12-12" B.O. 26'
F 29

F 27'

F 29'

+17-15" W.O. 28'
F 29

F 30'

+26-10" B.O. 24'
F 23'

F 27'

+26-15" B.O. 29'
F 21'
+94-12" W.O. 32'

F 28'

F 24'

F 24'

F 27

47

46

45

44

43

42

41

+89-15" B.O. 12'

+46-16" W.O. 40'

F 82 $\pm$ R 112'

+50 F 47' $\pm$ 30'
+46-15" O.B. 4'

F 13

+50 F 43

30

+82 Int. F.

+50 F 12'

F 36

194

F 18'

F 29'

139

+35-15" B.O. 22'

F 20'

F 31

212

F 21'

R 31

1012

+30-12" B.O. 29'

F 28

Reforested Area.

Reforested Area.

54

53

52

51

50

49

48

+98 Iron Sq. 37'

+98 20" Map. 16'
+98 Rd. Sq. 11'

+20 P. Dr.
12"x16" C.M.

Rd. ~~X~~
Woods

12"x16" C.M.
+20 P. Dr. 5
± Rd. 10'

Woods

+39 End F 37'

+98 End F 22'

± Rd. 7' F 34'

F 22'

Rd. ~~X~~

+12 W. Ash 26'
F 26'

Reforested Area

End Birch

F 26'

± Rd. 6'

+27-12" B.O. 27'
F 18'

Scattered Oaks

+49-18" B.O. 17'

± Rd. 25'

F 45

+93 Int. F. 1

F 03.

+75 15" B.O. 4'

F 35 ± Rd. 5'

+18-12" B.O. 22'

61

60

59

58

57

56

55

+96-12" O. 16'
 +90-20" O.W. 28'
 +83-8" O. 12'
 +77-12" Tr B.E. 12'
 +74-18" C.W. 25'
 +62-18" C.W. 25'
 +54-18" C.W. 23'
 +40-12" W.O. 12'
 +34-18" C.W. 22'
 +10-20" C.W. 19'
 F 21'

Lake 50

L.R. 4' +58-T.P. 31'
 +50 F 32'

L.R. 4' F 30'

+50 F 16'

L.R. 4' +50 F 31'

+37 T.P. 27'

F 11' Lake 33'

L.R. 10' F 38'

+50 F 6' Lake 30'

L.R. 12' +50 F 43'

+31 T.P. 34'

F 15' Edge Lake 66'

L.R. 4' F 36'

+93 Edge Boat Ho.

Winkled Tin Boat Ho.



+86 A F 31

+62 End Iron F 34'

+21 T.P. 02.

dune swamp

+14 Bag Iron F 05

L.R. 38'

+08 T.P. 16'
 +00 End Brush

L.R. = 24'

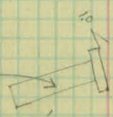
+00 Edge Swamp

+79 T.P. 1'

2" and 4" Brush

Look up Culvert
 Survey Notes.
 Overflow.

Rd 12'



+15 T.P. 70'

+73.23 F 23'
 +68-15" 0 29'
 +59-12" 0 20'
 +50 F 28'
 +47-12" 0. 27'
 +41-12" 0 17'
 +20-12" Birch 19'

F 28'

ER 2' Lt.

Present Rd.
 End Survey.

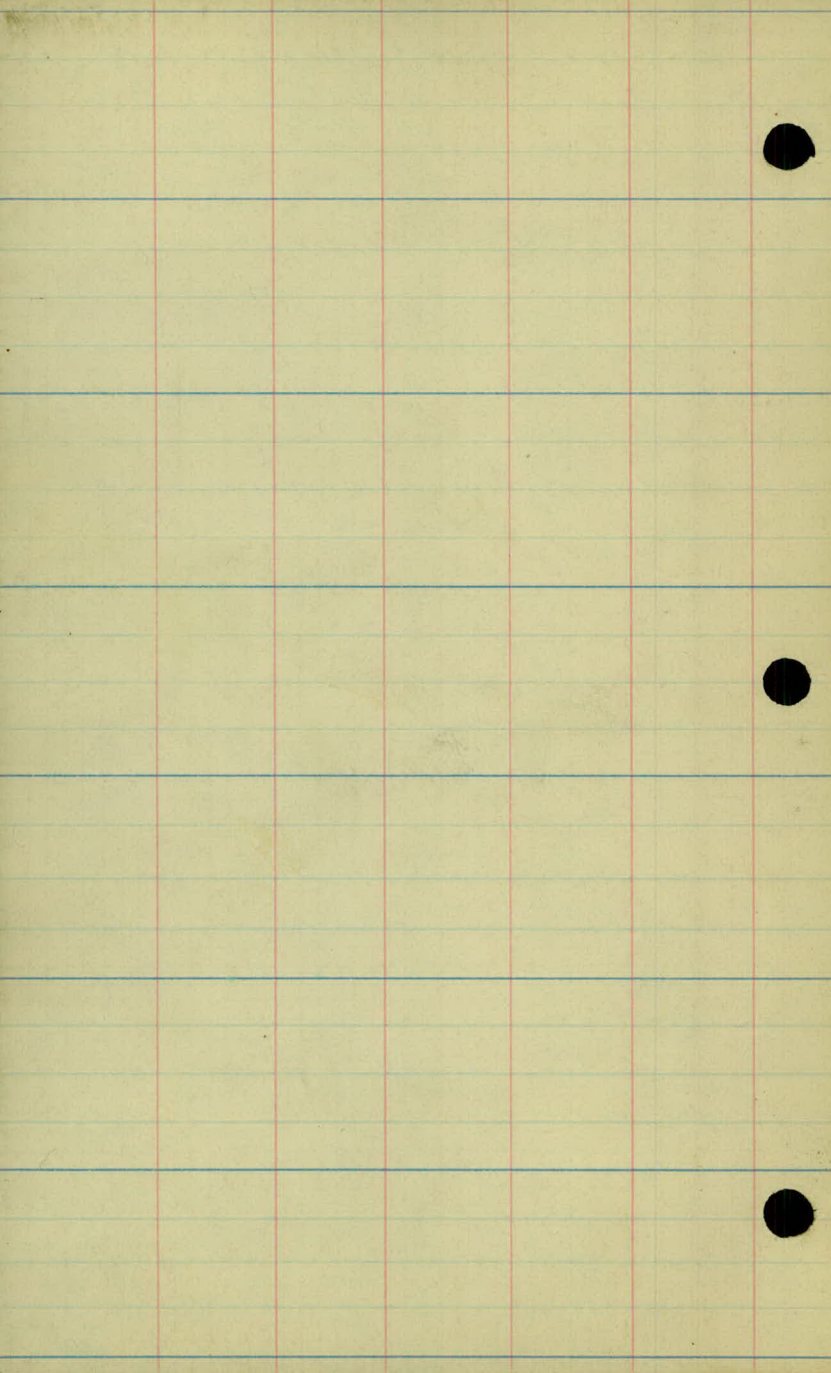
Schubbs

+73.23 F 21'

+50 F 22'

ER 2'

F 26'



Lake Vadnias

46+30.45 "M.C."

Weber
Skoglund
Beaton
Wilke
Goldish
3-2-31

P.O.T. 43+50 Spike

" 38+00 "

" 35+00 "

" 31+11.8 "

" 24+66.35 Mont Ctr. Sec 31-30-22

$\Delta Ft. 23+37.7$ Spike

$\Delta Ft. 12+08.3$

Spike

Present
Traveled
Road

$\Delta Ft. 4+60.65$

Spike

$\Delta Ft. 1+00$

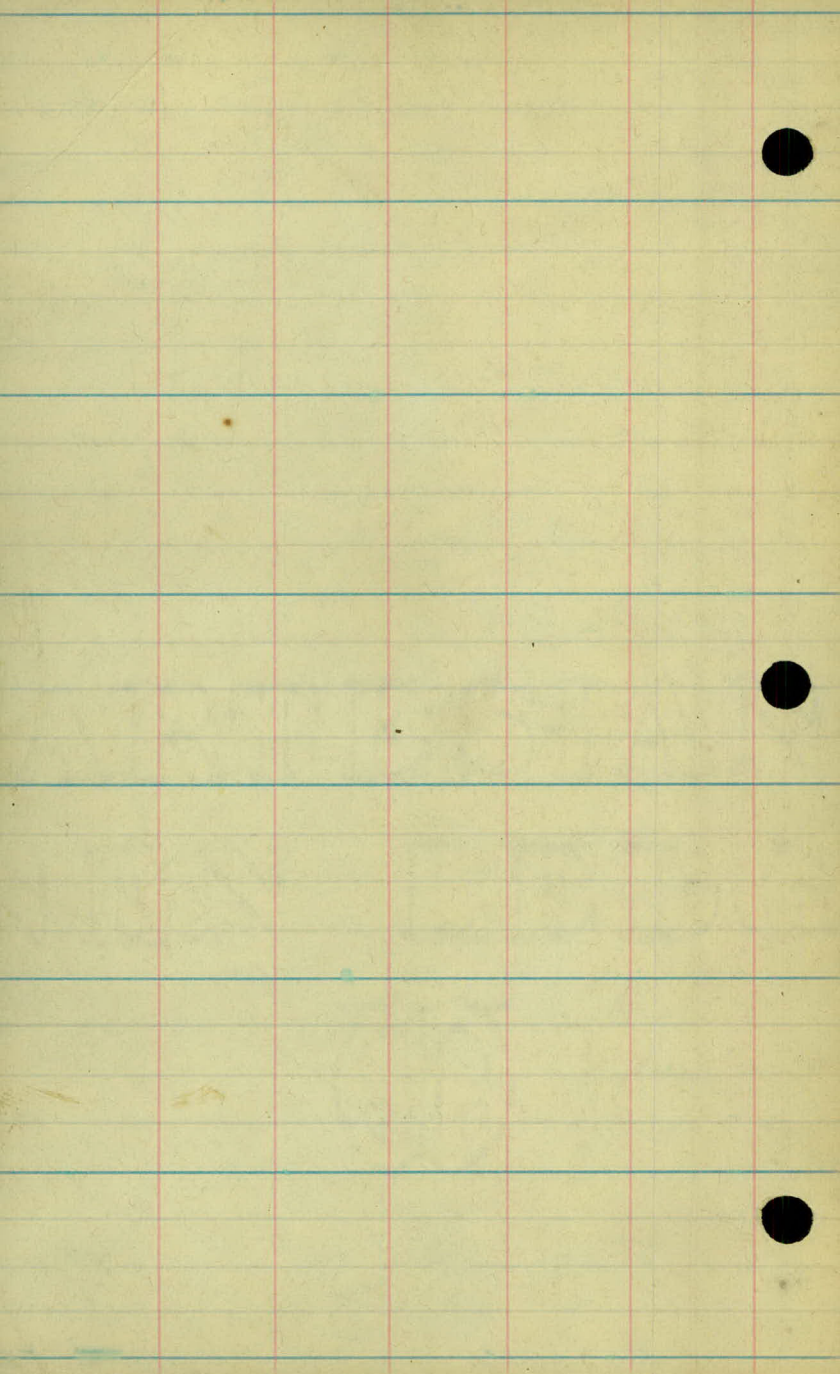
Spike

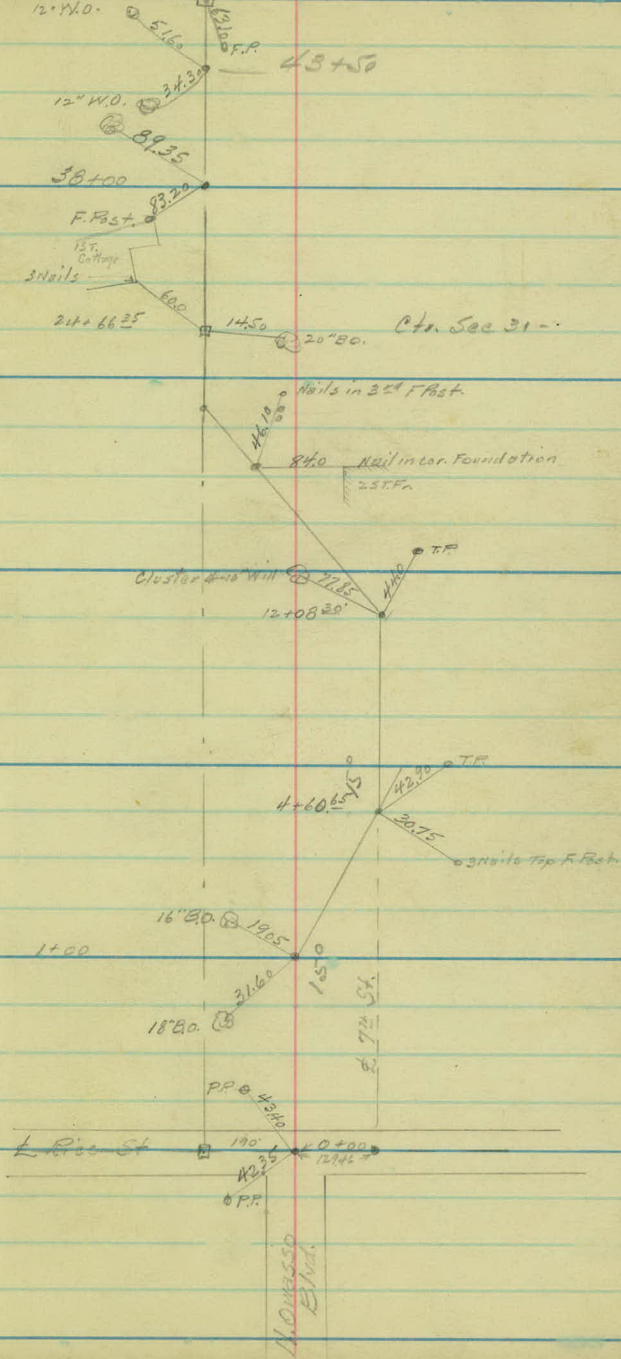
W. 1/4 Cor. Sec 31

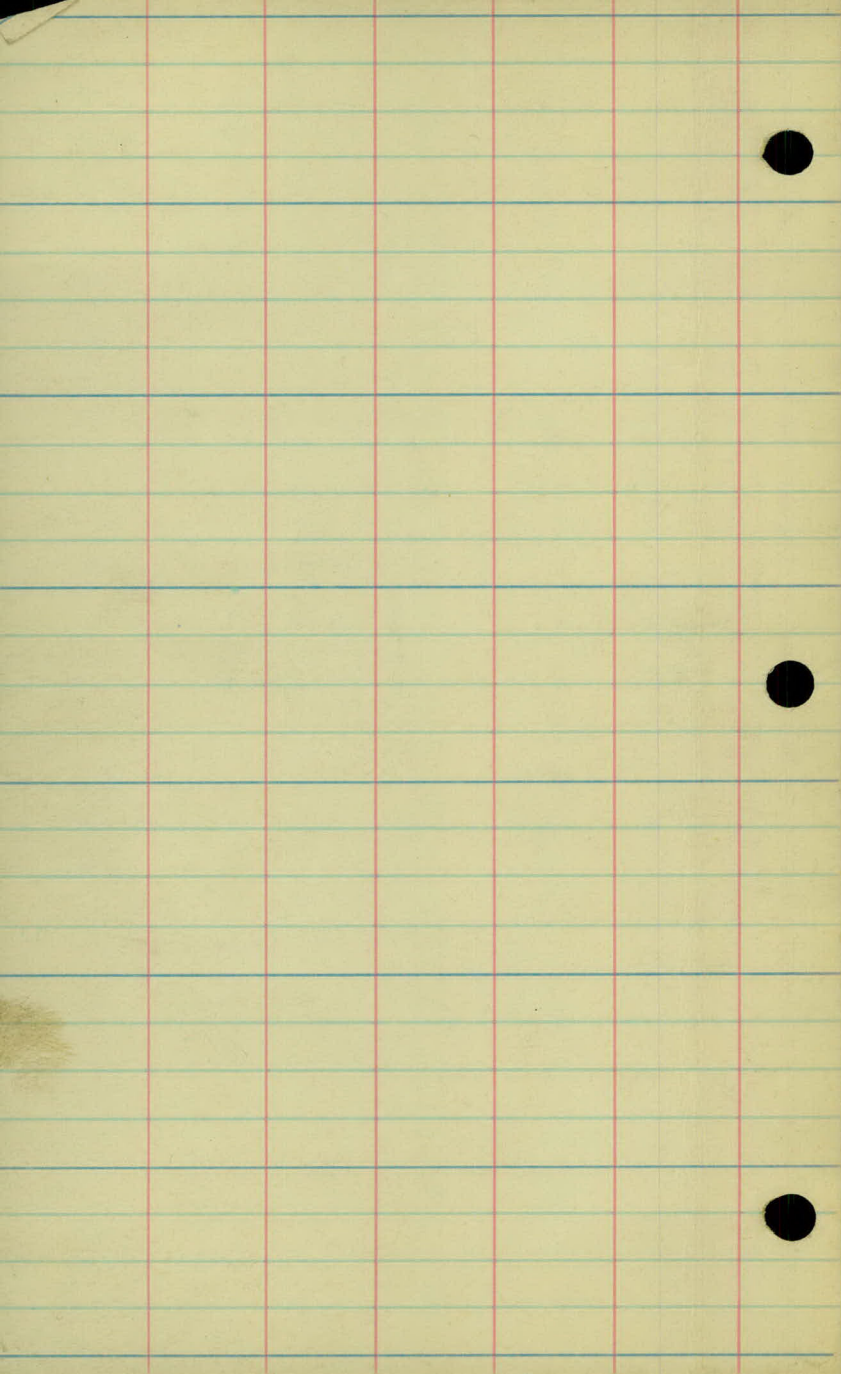
Owasso
Bldg.

& Rice St.

Hole







Topog Survey.
Location on E & W 1/4 line Sec. 31
W. B. Twp.
Rice St. To Vadnais Blvd.

5

1

10

2

1

0+00

0'
2102

955'

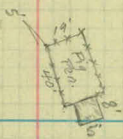
+94 T.P. 28'

+60 F 305
+55 Int. E 7th St.

+20 Edge Low Land.

+50 End Oaks.
+50 E 7th St.

60' E 7th St.



+05 Cor. Shed 23'
+98 Cor. Shed 26'

210



+79 Cor. Ho 6a5
1ST F.
Conc. Foundation.
+60 Bag. Scattered
Oaks.

+24 R.P. 47'

+24 T.P. 14'
+11.3 Edge Pave.

190'

1296'

Quasso Blvd.

12

11

10

9

8

7

6

+75 = 12" Twin Nyl 22'

1634

+55 End Marsh

+55 End Marsh 40

+40 N. end Culy. 32'

+38 T.P. 32'

15" x 16" C.M.

1 link 12" vit each end.

725

End F. 235

12

11

895

F25

+65 T.P. 22.5

10

88

F24

+31 T.P. 24'

9

858

F26

8

97

7

956

F29

+89 T.P. 26'

+43 T.P. 28'

6

96

F28'

22



18

17

16

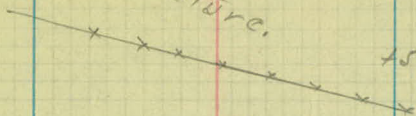
15

14

13

Pasture.

+50 Int. F.



+85 End Orchard Beg. Cult.

18

17

+63 Cor. Ho. 90' 32.5'
25th Fr.



+22 Beg. Orchard

+100 E Pr. Dr.



+08 Beg F. 245

+72 Berry Patch 6' 3 Rows

+36 Int E. Rd.

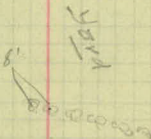
+14 End. Cult. Beg. Lawn.
E Rd. 12'



+60 Cor. Ho. 70'

+30 Cor. Ho. 61

+50 E Rd. 27'
+60 Cor. Cult. 38'



+37 Hedge.

+ Road 36'

+65 E Road 27' Lt.

+32 Int Rd. E

E Traveled Rd. 18' Ft.

13

33

32

31



27

26

25

24

Waste Land

Waste Land

33 +00 Edge Marsh

Ditch 55

Marsh

32 F 37 Ditch 14

+65 Int. Ditch

31 +20 Int + F
F 95

+36 Edge Marsh

Marsh

+85 End Scattered Oaks

+85 Cor Out H₀ 10' 4 x 4.
+82 Cor Out H₀ 12' 4 x 4.

+39 Cor. H₀ 43



25 +12 Cor. Cottage 39
+02 F. Cor. 24

+00 Scattered Oaks

+62 -18" 30.15'

Pasture

24

45

mmmmmm

39

11117777

+84 ± Present Vzdnyis
Blvd.

+41 Int F

45

F 34
|||||

Reforested Area.

+64 Int F

155

39

F 30
|||||

