

BK. 38

Dr. 11A

OFFICE OF COUNTY ENGINEER
RAMSEY CO. MINN.

_____ Pian _____ Survey

_____ Harriet Ave. _____
_____ Victoria St. _____ Owasso St. _____
From _____ Owasso St. _____ To _____ Kieffer St. _____

Slope stakes 5-9-47

Road Acc't. No. _____

Date Filed 7-25-47

File _____

1
PLAN SURVEY

HARRIET AVE.

Victoria St. to Onwasso St.

INDEX

Align 1-2

Topog 3-4

Xsections 5-8

Rec'd 4/25/47 uB

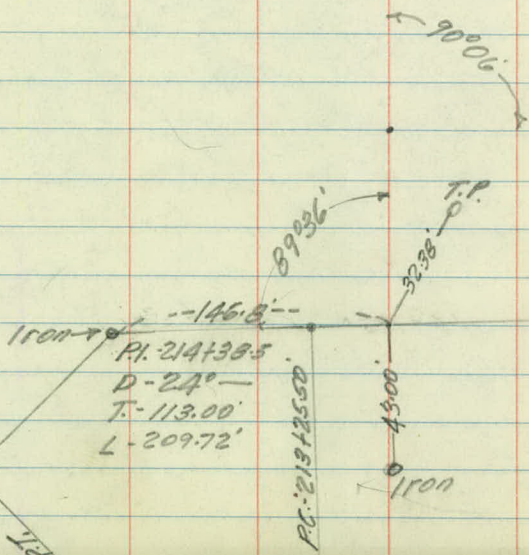
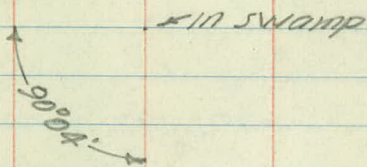
Sta. Point

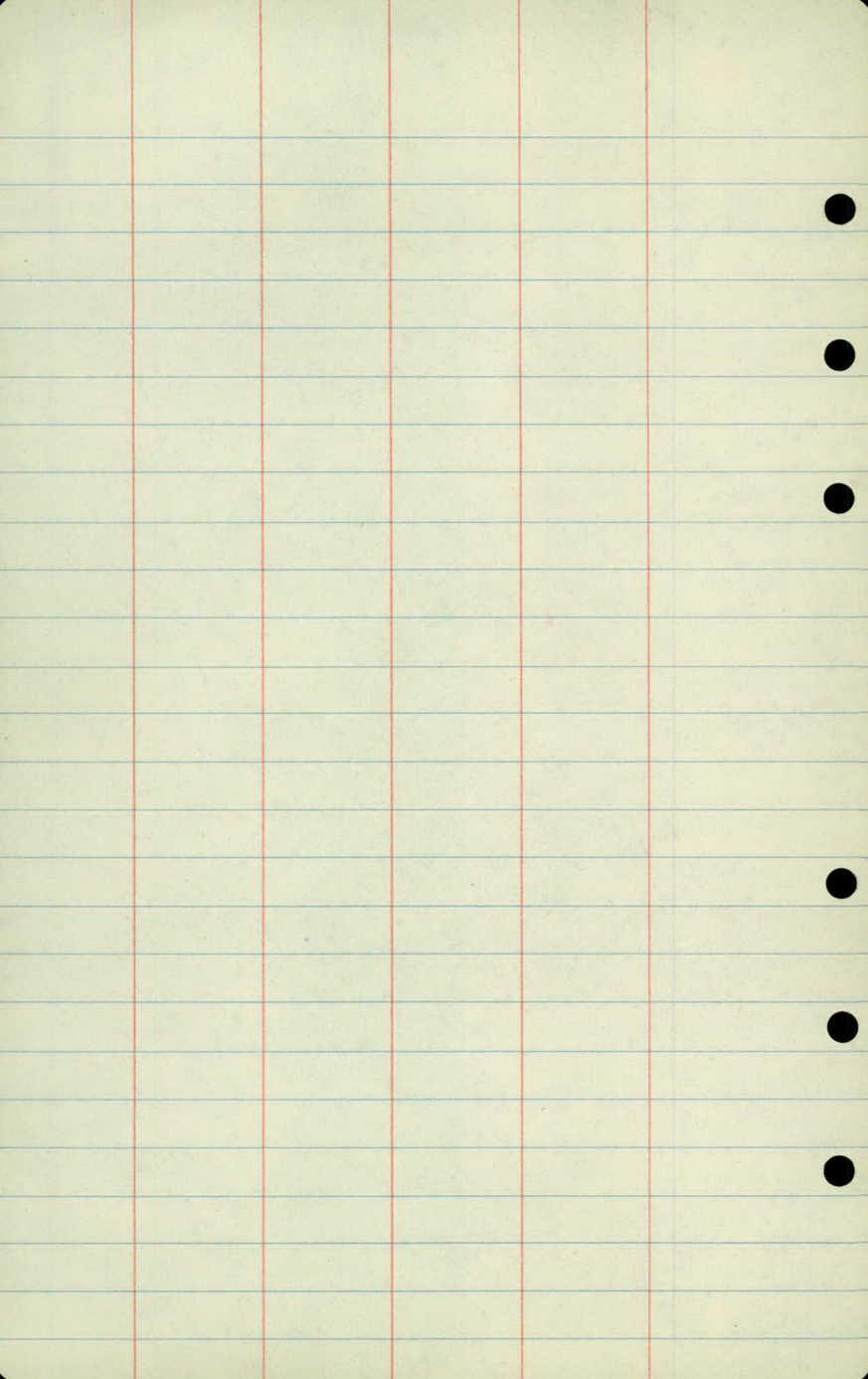
6 +46.42

3 +16.30 P.O.T.

0 +03.39 P.O.T. = Platted &

0 +00 = & Victoria St. 1942 Plan Survey





Topography

+30 Edge Swamp.

6

1

0

+32-T.P.-9'

+14-2 Edge Bl. Top
-14)

4-21-41

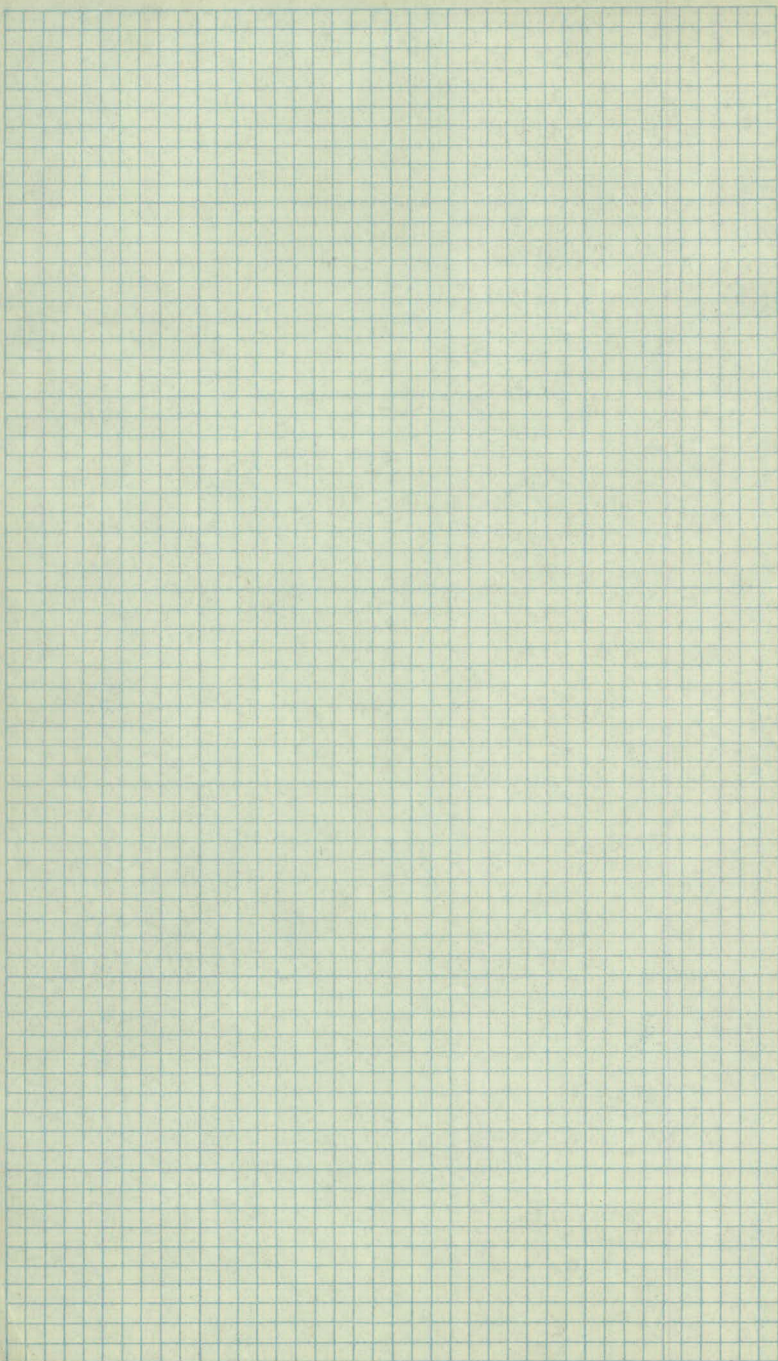
See Ormaso St.
Stadig notes

4

Meadow

Hay

Victoria St.



X sections

Sta	+	x	-	Elev
B.M.	6.20	970.48		(964.28)

0	+00 = Victoria St			63.1
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	+16			63.3
--	-----	--	--	------

	+21			61.6
--	-----	--	--	------

	+27			62.8
--	-----	--	--	------

	+34			68.3
--	-----	--	--	------

	+72			64.4
--	-----	--	--	------

1				62.5
---	--	--	--	------

	+35			63.7
--	-----	--	--	------

4-24-47 Clear

6

L

E

R

Spt. in 15" Oct 200' N.W. of Harriet Ave.

6.7	7.2	7.4	7.7	8.0
100	50	<u>50</u>	50	100

✓

6.8
50

7.2
50

7.7
50

✓

9.2
50

8.8 8.9
23 -

9.6
50

✓

9.2
50

7.8 7.7
22 -

8.6
50

✓

7.2	4.2	2.4	2.2	2.5	3.9
50	31	13	<u>50</u>	12	31

5.7
50

✓

8.5	6.0	5.6	6.1	7.1	8.2	8.8
50	25	12		18	29	50

✓

7.9
50

7.2 8.0
20

9.2 9.3
29 50

✓

8.9	8.8	7.6
50	38	20

6.8
50

7.1
22

7.1
50

✓

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

970.48

1+70				64.7
------	--	--	--	------

2				64.5
---	--	--	--	------

+33				62.7
-----	--	--	--	------

+63				62.0
-----	--	--	--	------

3				62.4
---	--	--	--	------

+40				61.6
-----	--	--	--	------

+76				58.8
-----	--	--	--	------

4.				56.3
----	--	--	--	------

T.P.	0.20	956.96	13.72	956.70
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L E R

2.3	3.8	5.8	6.5	7.4	8.4	✓
50	27		8	25	50	

+1.0	3.0	5.2	6.0	7.0	6.7	6.3	✓
50	24	9	—	13	33	46-50	

1.5	2.5	4.3	7.8	8.6	8.2	5.6	✓
50	40	26	—	11	24	50	

4.6	5.1	6.6	8.5	9.5	9.9	8.8	✓
50	32	18		10	27	50	

6.4	5.9	6.6	8.1	9.0	11.6	12.2	✓
50	34	16	—	8	33	50	

9.2	8.5	8.4	8.9	12.0	12.7	13.0	✓
50	40	17	—	20	34	50	

13.0	12.7	12.2	11.7	11.6	12.2	12.9	✓
50	33	15	—	9	27	50	

17.4	16.9	15.5	14.2	12.4	12.1	12.5	✓
50	27	10	—	19	33	50	

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

956.96

4.737				51.3
-------	--	--	--	------

+64				48.7
-----	--	--	--	------

5				47.9
---	--	--	--	------

+45				48.1
-----	--	--	--	------

+75				46.4
-----	--	--	--	------

6				44.3
---	--	--	--	------

+16				43.3
-----	--	--	--	------

+46				41.5
-----	--	--	--	------

B.M			6.26	950.70
-----	--	--	------	--------

950.70

L E R

9.0 8.9 7.5 5.7 +0.4 +3.0 L
50 38 13 33 50

10.9 10.3 9.4 8.3 6.5 2.7 +0.4 L
50 30 18 15 36 50

11.6 11.2 10.2 9.1 8.1 6.1 3.0
50 38 18 13 31 50

12.6 11.4 10.1 8.9 7.9 5.9 4.2 L
50 32 15 20 41 50

13.8 12.6 10.6 8.2 4.5 L
50 26 20 50

14.5 13.8 12.7 10.0 6.6 5.0
50 27 17 40 50

14.7 14.5 13.7 12.7 11.0 6.4
50 30 12 21 50

15.5

Spk 10/12" Tw. O. S.E. Cor Harriet & Owasco

Sta.	+	π	-	Elev.
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PLAN SURVEY

HARRIET AVE.

Owasso St. to Kieffer St.

INDEX

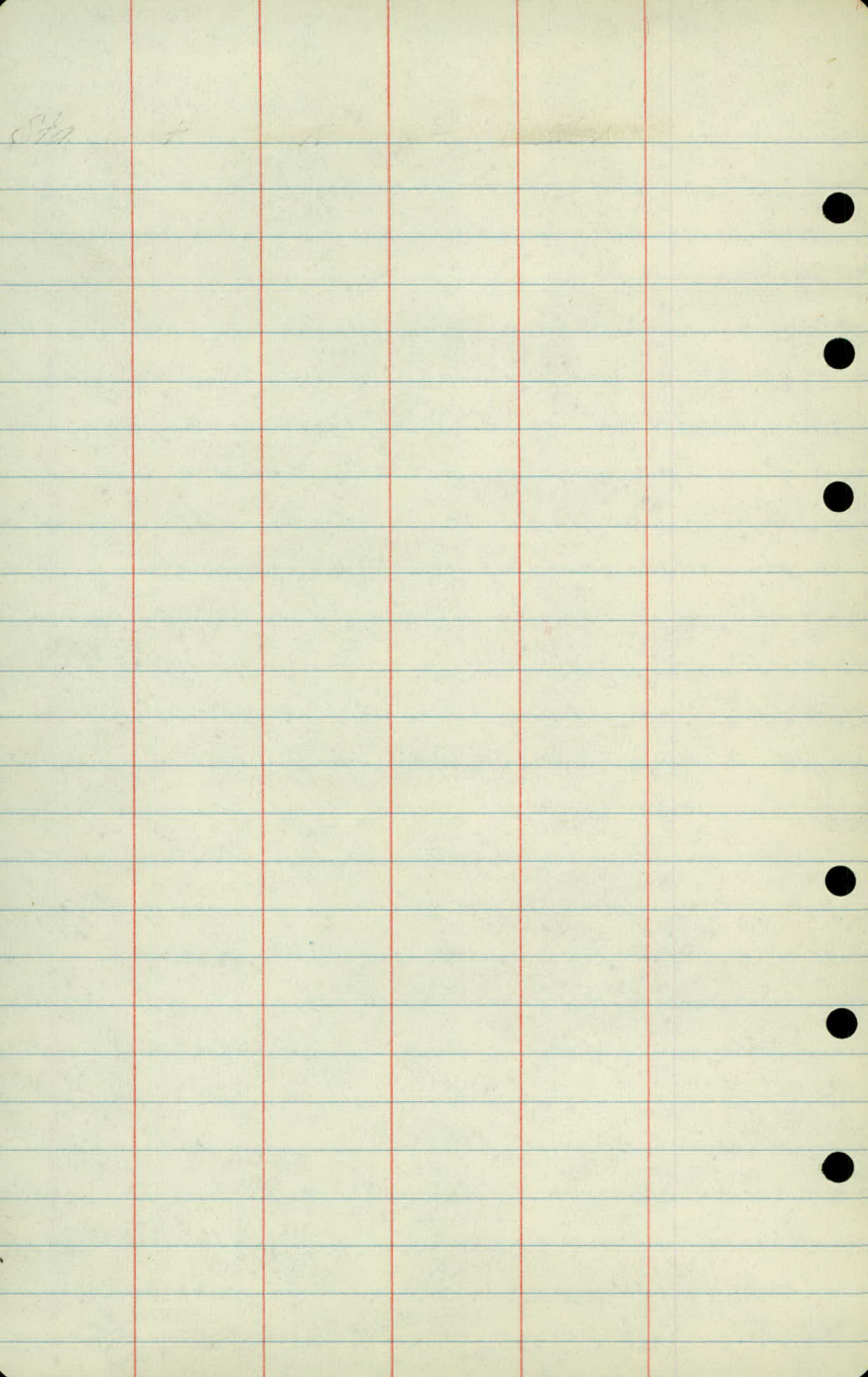
Align. P. 1-2

Topog. P. 3-4

Xsections P. 4-9

Rec 7/16/47

Worked up 7/21/47



1

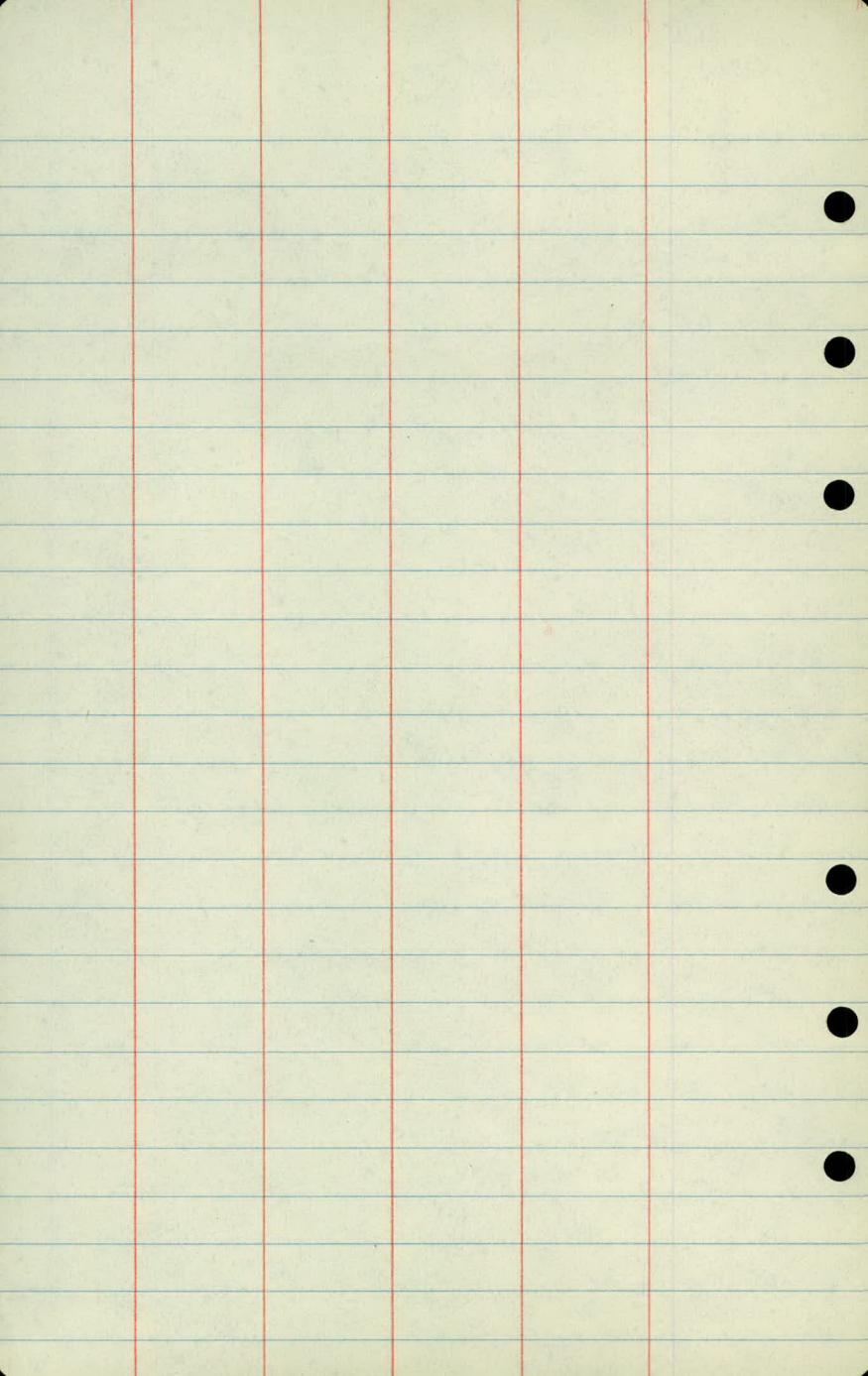
Alignment

Sta	Point	$\Delta Lt.$	$\Delta Bl.$
-----	-------	--------------	--------------

13+01.21	= E Kieffer St.		
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6+46.42	P.O.T = E Owens St.		
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B



Topography

+90-Edge of Swamp

12 Swamp -40'

11

10

9

(+50-Fe. Line X's E)
Parallel to swamp)

8

7

10' 16'

+69-End 18' M-24'
+29 40' M-21'

6

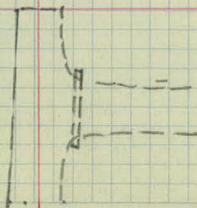
13' 16'

3

100 5" pop

Meadow

SWAMP



Xsections

Harriet Ave

Sta	+	π	-	Elev.
B.M.	1.11	951.81		950.70

6	+46.42 = E. Owasso			45.5
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	+67			45.3
--	-----	--	--	------

	+78			45.0
--	-----	--	--	------

7				44.3
---	--	--	--	------

	+18			43.3
--	-----	--	--	------

	+24			40.2
--	-----	--	--	------

	+50			40.0
--	-----	--	--	------

8				40.7
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7-15-47

5

L

E

R

Spt. in 12" Oak SE. Cor. Owassa & Herriet

L.O. 102 75 70 6.9 6.1 5.4 3.9 ✓
 32 28 19 12 28 50

L.O. 103 100 69 65 6.4 6.4 4.4 ✓
 25 23 14 10 24 50

L.O. 103 69 68 71 89 68 91 8.8 ✓
 22 14 20 24 26 33 39 50

L.O. 105 84 75 80 10.4 L.O. ✓
 18 12 14 23

L.O. 115 87 85 8.7 11.0 L.O. ✓
 15 9 12 19

L.O. 116 L.O. ✓

L.O. 118 L.O. ✓

9.9 10.3 10.7 11.1
 50 38 19

L.O. P ✓
 X.O.

Sta.	+	π	-	Elev.
		951.81		

B +44				41.5
-------	--	--	--	------

+70				42.2
-----	--	--	--	------

+79				46.0
-----	--	--	--	------

+90				47.1
-----	--	--	--	------

9			1.7	
---	--	--	-----	--

L

E

R

65 96 100 96 103 110 L.O. ✓
 50 28 10 4 16

35 57 63 96 101 96 104 L.O. ✓
 50 36 17 23 28 34

33 52 58 58 82 96 82 100 100 ✓
 50 36 17 16 36 39 45 45

21 27 32 47 51 61 85 86
 50 35 20 11 35 47 50

Sta.	+	π	-	Elev.
B.M.	6.85	957.55		(950.70)

9	+00			50.2
---	-----	--	--	------

	+12			51.9
--	-----	--	--	------

	+25			51.8
--	-----	--	--	------

	+40			52.0
--	-----	--	--	------

T.P.	066	952.82	539	952.16
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	+59			51.6
--	-----	--	--	------

	+83			50.9
--	-----	--	--	------

10				49.5
----	--	--	--	------

	+25			44.3
--	-----	--	--	------

7-14-47

7

L E R

Spt. in 12" Oak SE Cor. Harriet & Owens

7.9 80 59 74 8.6 9.5 11.0 ✓
50 39 14 11 28 50

7.0 6.4 5.6 5.7 5.7 7.0 8.6 9.8 ✓
50 31 13 5 17 34 50

5.6 5.0 5.0 5.8 5.8 5.6 6.4 7.5 ✓
50 38 24 6 20 35 50

5.0 4.5 4.6 5.4 5.6 5.5 5.8 6.3 7.5 ✓
50 41 31 15 6 18 31 50

0.8 0.4 0.3 1.0 1.3 1.2 1.6 1.5 2.3 3.4 ✓
50 46 38 19 8 19 29 36 50

4.2 3.2 2.7 1.9
50 35 18 2.1 2.6 3.6 ✓
 19 33 50

6.1 5.8 4.6 3.3 2.9 2.4 2.4 3.9 ✓
50 36 17 6 17 33 50

11.0 10.9 10.6 8.5 6.9 5.0 3.3 4.3 ✓
50 33 18 7 20 37 50

Sta.	+	π	-	Elev.
		952.82		
10	+49			41.3.
	+56			40.9.
	+72			41.8.
11				46.0.
	+18			47.8.
	+33			48.2.
	+57			47.1.
	+77			44.4.

L

E

R

137 135 132 126 115 102 62 42 38 ✓
50 42 26 12 9 24 36 50

156 141 133
50 31 15

119 104 76 37 34 ✓
8 20 38 50

159 156 144 131 110 92 59 26 23 ✓
50 40 27 14 7 24 39 50

140 126 105
50 33 18

68 55 35 29 30 ✓
6 22 39 50

125 112 89 64 50 40 30 37 47 ✓
50 37 21 8 6 21 37 50

110 88 61
50 33 14

46 39 36 48 56 ✓
11 28 42 50

137 114 88 68 57
50 38 25 11

51 51 60 ✓
16 35 50

165 151 115
50 37 15

84 71 62 63 70 ✓
11 21 38 50

Sta	+	π	-	Elev.
		952.82		

12				39.2
----	--	--	--	------

+20				36.9
T.P.	6.15	947.18	11.79	941.03

+31				32.8
-----	--	--	--	------

+58				32.8
-----	--	--	--	------

13 +01-21				33.1
B.M.		6.42	940.76	(940.76)

L

4

R

W.S.
 L.O. 1205 198 161 153 126 114 93 92 ✓
 35 35 27 16 12 28 50

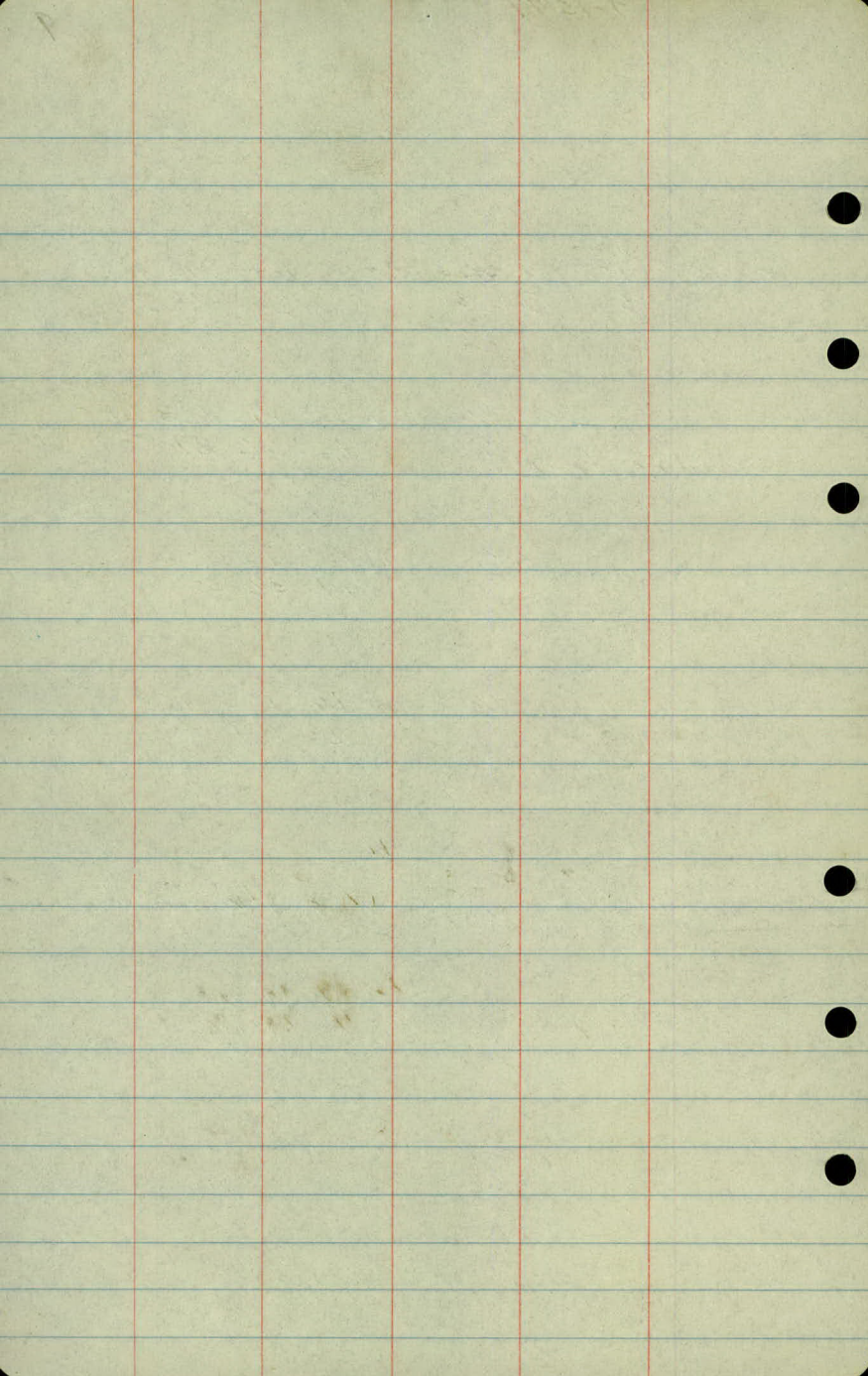
L.O. 205 15.9 152 145 123 111 ✓
 Top rock rt sta 12 7 12 22 27 50

L.O. 144 103 95 78 ✓
 14 32 50

L.O. 144 145 105 103 ✓
 23 44 50

14.1

R.B. spt. in 18" Leaning Oak SW. Cor. Harriet & Kibbee



HARRIET AVE.

Staking Notes

Sta	P.G.	P.G.R.	-	Elev
B.M.	6.68	970.96		964.28

0	+00	63.1	7.9
---	-----	------	-----

	+34	63.2	7.8
--	-----	------	-----

	+72	63.0	8.0
--	-----	------	-----

1		62.9	8.1
---	--	------	-----

	+35	62.7	8.3
--	-----	------	-----

	+70	62.6	8.4
--	-----	------	-----

2		62.4	8.6
---	--	------	-----

	+33	62.3	8.7
--	-----	------	-----

K.A. 5-9-97
 A.M.
 M.B.
 R.K.

L

E

E

Spk. in 15' Oak 200' NW of Harriet & Victoria

24.0/14.0
 3.9

13.1
 27

14.0/24.0
 3.9

19.8/11.7
 6.3

11.5
 6.5

10.4/16.8
 7.6

16.8/10.4
 7.7

-0.4
 8.5

-0.6/16.2
 9.2

17.6/10.8
 7.5

11.0
 7.9

10.4/16.8
 7.9

23.4/13.7
 4.7

12.1
 6.9

10.9/17.8
 7.5

21.8/15.2
 3.2

13.1
 6.5

11.1/18.2
 7.5

22.4/13.2
 3.5

10.4
 8.3

10.1/15.2
 9.1

Sta	P.G.	P.E.B.	-	Elev.
		970.96		

2	+63	61.8	9.2	
---	-----	------	-----	--

3		60.5	10.5	
---	--	------	------	--

	+40	58.3	112.7	
--	-----	------	-------	--

	+76	55.7	15.3	
--	-----	------	------	--

T.P.		0.19	958.69	12.46	958.50
------	--	------	--------	-------	--------

29
10.8

4		53.7	5.0	
---	--	------	-----	--

	+37	50.6	8.1	
--	-----	------	-----	--

	+64	48.7	10.0	
--	-----	------	------	--

5		46.9	11.8	
---	--	------	------	--

L

E

R

21.4 / +2.7
65+0.2
9.0-0.4 / 158'
10123.4 / +3.7
68+1.9
8.6+0.4 / 158'
10623.4 / +3.7
9.0+2.3
10.4+0.6 / 11.2
12.120.2 / +2.1
15.2+3.1
12.2+2.8 / 21.6
+12.517.4 / +0.7
43+2.4
2.6+4.8 / 25.6
0.210.2 / -1.6
9.2+0.6
7.5+5.4 / 26.8
2.715.0 / 2.1
10516.4 / -0.7
102-0.1
10.1+2.0 / 200
7016.2 / +0.1
11.8+1.1
10.8+3.2 / 22.4
8.7

Sta	P.G.	P.G.R.	-	Hex
		958.69		

5 +45	45.6	13.1		
T.P.	3.67	952.07	10.29	948.40

+75	45.3	6.8		
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6+	45.3	6.8		
---------------	-----------------	----------------	--	--

+1642	45.3	6.8		
-------	------	-----	--	--

B.M.		1.37	950.70	(950.70)
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180/11.0
12.1

+2.4
107

+36
95/23.2

15.5/18.04
6.9

+1.0
58

+38
30/23.6

19.6/23
96

+2.3
91

+10.9
68/19.1

Spk. in 12" Oak SE Cor. Horriet & Oviasso.

