

Dr. 12 A - BK. 20

OFFICE OF COUNTY ENGINEER
RAMSEY CO. MINN.

_____ *P1017* _____ Survey

_____ *HALLOWAY ST.* _____

From *Furness Ave* to *East Ave.*

Road Acc't. No. _____

Date Filed *1936*

File *D. 12 A. BK 20*

Plan Survey

TOPOGRAPHY

HOLLOWAY ST.

STA

0

‡ EAST AVE & Holloway

1+00

2+00

3+00

+80

4+00

5+00

6+00

+52.5

‡ HOWARD AVE.

7+00

8+00

9+00

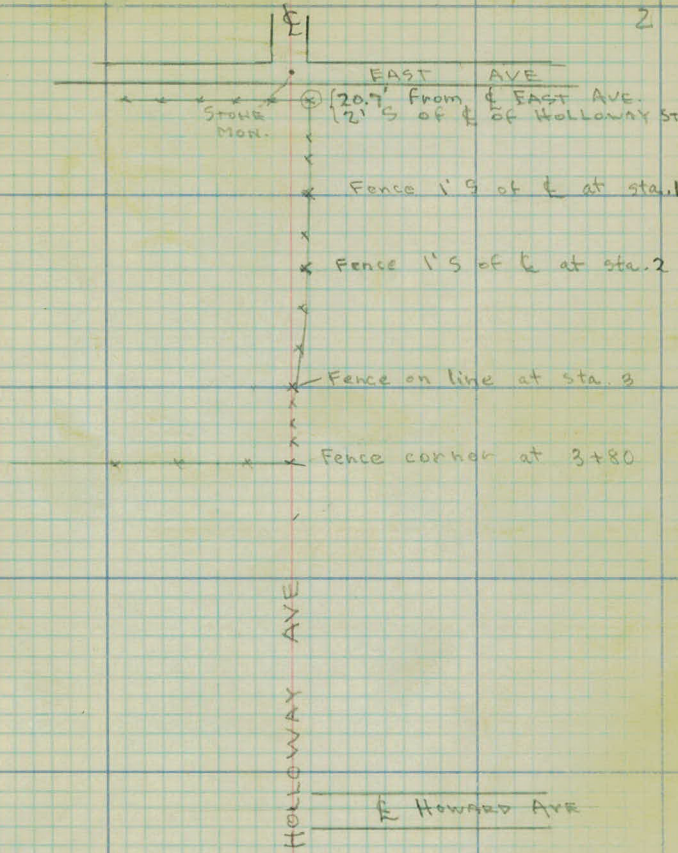
10+00

+50

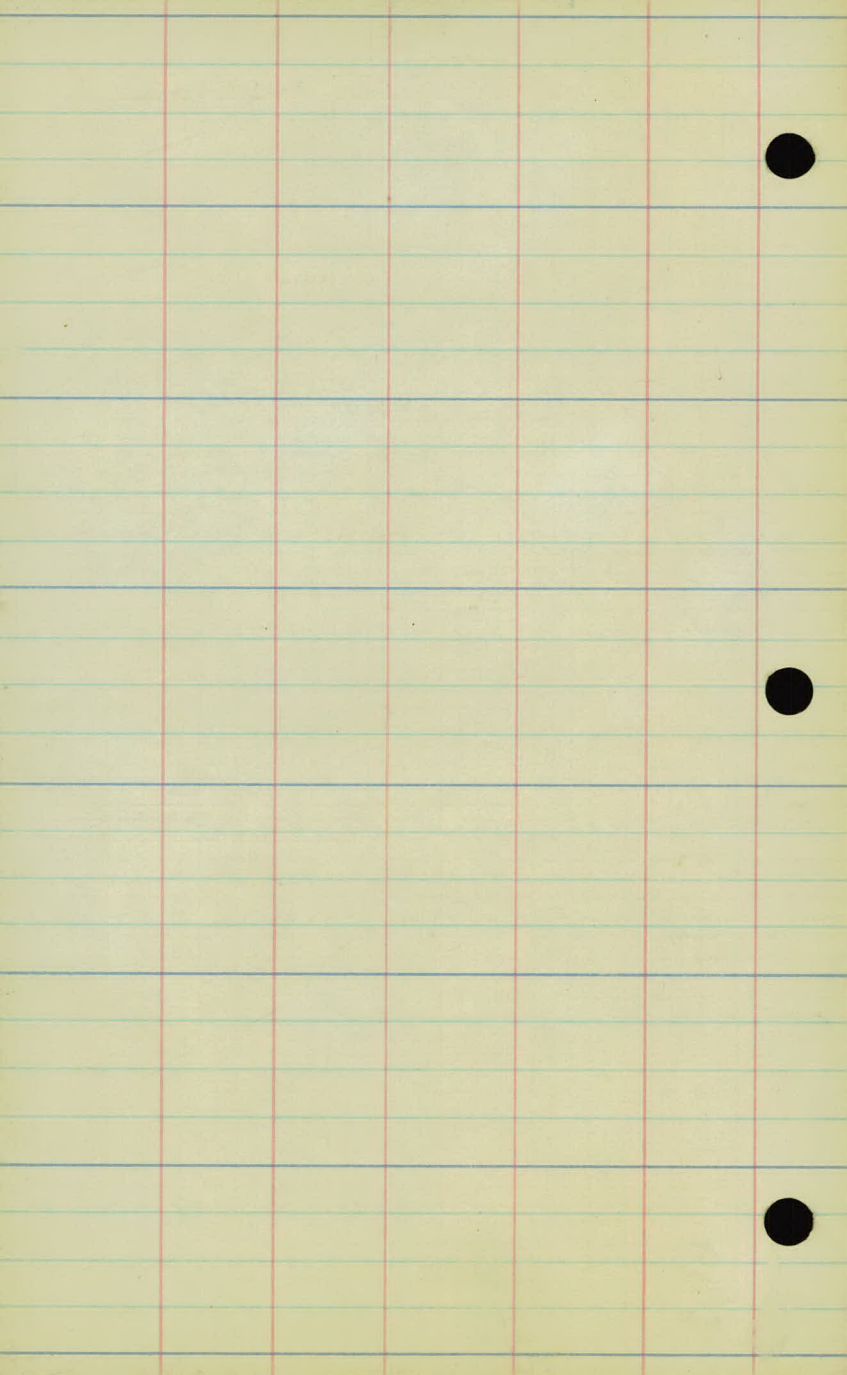
Beg. of Raspberry Patch on right

12+42.5

Monument



28



D. MARK
7/25/36

3

X- SECTIONS
HOLLOWAY AVE.

STA	+	π ✓	-	ELEV.	GRADE
B.M.	1.95	1025.33		1023.38	
T.P.	1.41	1016.44 ✓	10.30	1015.03 ✓	
T.P.	0.55	1003.40 ✓	13.59	1002.85 ✓	
T.P.	0.55	991.15 ✓	12.80	990.60 ✓	
T.P.	7.56	987.07 ✓	11.64	979.51 ✓	
B.M.	(Nail in T.P.)		10.99	976.08 ✓	

0+00	E EAST AVE.			75.6
+15				75.1
+20				76.2
+22	T.P. 26' Right			
+60				78.3
+80				80.4
1+50				86.7
T.P.	0.91	986.54 ✓	1.44	985.63 ✓
2+00				82.2

Iron in S.W. corner of EAST AVE.

NAIL in Telephone Pole in N.E. corn. of EAST AVE.

$$\begin{array}{r} 9.9 \\ 50 \end{array}$$

$$11.5$$

$$\begin{array}{r} 12.9 \\ 50 \end{array}$$

$$\begin{array}{r} 11.6 \\ 33 \end{array}$$

$$12.0$$

$$\begin{array}{r} 12.7 \\ 33 \end{array}$$

$$\begin{array}{r} 9.1 \\ 33 \end{array}$$

$$\begin{array}{r} 10.1 \\ 21 \end{array}$$

$$10.9$$

$$\begin{array}{r} 11.7 \\ 14 \end{array}$$

$$\begin{array}{r} 12.3 \\ 33 \end{array}$$

$$\begin{array}{r} 6.7 \\ 33 \end{array}$$

$$\begin{array}{r} 8.3 \\ 15 \end{array}$$

$$8.8$$

$$\begin{array}{r} 9.9 \\ 11 \end{array}$$

$$\begin{array}{r} 10.4 \\ 33 \end{array}$$

$$\begin{array}{r} 4.8 \\ 33 \end{array}$$

$$\begin{array}{r} 6.1 \\ 15 \end{array}$$

$$6.7$$

$$\begin{array}{r} 8.2 \\ 16 \end{array}$$

$$\begin{array}{r} 8.9 \\ 33 \end{array}$$

$$\begin{array}{r} 3.5 \\ 50 \end{array}$$

$$\begin{array}{r} 2.2 \\ 33 \end{array}$$

$$\begin{array}{r} 1.2 \\ 17 \end{array}$$

$$0.4$$

$$\begin{array}{r} 0.5 \\ 20 \end{array}$$

$$\begin{array}{r} 0.5 \\ 33 \end{array}$$

$$\begin{array}{r} 5.6 \\ 50 \end{array}$$

$$\begin{array}{r} 5.3 \\ 33 \end{array}$$

$$\begin{array}{r} 5.0 \\ 17 \end{array}$$

$$4.3$$

$$\begin{array}{r} 3.5 \\ 14 \end{array}$$

$$\begin{array}{r} 3.7 \\ 33 \end{array}$$

✓
986.54

2+40

79.1

+65

77.4

+70

Ditch

(Would recommend culvert)

76.3

+75

77.0

3+00

77.2

+50

77.4

T.P.

7.65

✓
986.49

7.70

✓
978.84

4+00

78.0

+50

79.1

5+00

79.8

+50

80.3

6+00

81.1

+52.5

⌞

HOWARD AVE.

81.9

7+00

82.6

$$\frac{8.2}{50} \quad \frac{8.1}{32} \quad \frac{7.8}{16} \quad 7.4 \quad \frac{8.4}{18} \quad \frac{8.4}{33}$$

$$\frac{8.8}{50} \quad \frac{8.9}{36} \quad \frac{9.0}{17} \quad 9.1 \quad \frac{10.1}{33} \quad \frac{10.6}{50}$$

$$\frac{8.9}{50} \quad \frac{9.3}{27} \quad \frac{10.0}{7} \quad 10.2 \quad \frac{11.2}{25} \quad \frac{11.5}{50}$$

$$\frac{8.9}{50} \quad \frac{9.1}{36} \quad \frac{9.2}{15} \quad 9.5 \quad \frac{11.0}{30} \quad \frac{11.3}{50}$$

$$\frac{8.9}{33} \quad 9.3 \quad \frac{9.9}{17} \quad 10.6 \quad 33$$

$$\frac{8.5}{33} \quad 9.1 \quad \frac{10.3}{33}$$

$$\frac{8.3}{33} \quad 8.5 \quad \frac{8.7}{33}$$

$$\frac{7.6}{33} \quad 7.4 \quad \frac{7.8}{33}$$

$$\frac{6.9}{33} \quad 6.7 \quad \frac{7.3}{33}$$

$$\frac{5.7}{33} \quad 6.2 \quad \frac{6.8}{33}$$

$$\frac{5.1}{33} \quad 5.4 \quad \frac{6.2}{33}$$

$$\frac{4.4}{33} \quad 4.6 \quad \frac{4.0}{33}$$

$$\frac{3.6}{33} \quad 3.9 \quad \frac{2.9}{33}$$

	+	T ✓	-	ELEV.
B.M.		986.49	3.99	980.29 982.50 ✓

7+50				83.5
------	--	--	--	------

8+00				84.1
------	--	--	--	------

+50				85.5 ✓
-----	--	--	--	--------

T.P.	8.39	993.50 ✓	1.38	985.11 ✓
------	------	----------	------	----------

9+00				87.4
------	--	--	--	------

+52				87.7
-----	--	--	--	------

10+00				88.4
-------	--	--	--	------

+50				88.8
-----	--	--	--	------

11+00				90.4
-------	--	--	--	------

+50				91.9 ✓
-----	--	--	--	--------

T.P.	9.85	1000.68 ✓	2.67	990.83 ✓
------	------	-----------	------	----------

12+00				95.1
-------	--	--	--	------

+42.15			3.84	996.84 ✓ 96.4
--------	--	--	------	---------------

↖ B.M. R.R. Iron

S.W. corner stake HOWARD AVE.

$$\begin{array}{r} 2.7 \\ 33 \end{array}$$

$$\begin{array}{r} 3.0 \end{array}$$

$$\begin{array}{r} 2.9 \\ 33 \end{array}$$

$$\begin{array}{r} 1.8 \\ 33 \end{array}$$

$$\begin{array}{r} 2.4 \end{array}$$

$$\begin{array}{r} 2.3 \\ 33 \end{array}$$

$$\begin{array}{r} 1.0 \end{array}$$

$$\begin{array}{r} 1.1 \\ 33 \end{array}$$

$$\begin{array}{r} 86.1 \\ 7.4 \\ 33 \end{array}$$

$$\begin{array}{r} 6.2 \\ 33 \end{array}$$

$$\begin{array}{r} 6.1 \end{array}$$

$$\begin{array}{r} 7.0 \\ 33 \end{array}$$

$$\begin{array}{r} 5.1 \\ 33 \end{array}$$

$$\begin{array}{r} 5.8 \end{array}$$

$$\begin{array}{r} 6.2 \\ 33 \end{array}$$

$$\begin{array}{r} 4.3 \\ 33 \end{array}$$

$$\begin{array}{r} 5.1 \end{array}$$

$$\begin{array}{r} 5.4 \\ 33 \end{array}$$

$$\begin{array}{r} 3.7 \\ 33 \end{array}$$

$$\begin{array}{r} 4.7 \end{array}$$

$$\begin{array}{r} 5.3 \\ 33 \end{array}$$

$$\begin{array}{r} 2.8 \\ 33 \end{array}$$

$$\begin{array}{r} 3.1 \end{array}$$

$$\begin{array}{r} 3.5 \\ 33 \end{array}$$

$$\begin{array}{r} 1.3 \\ 33 \end{array}$$

$$\begin{array}{r} 1.6 \end{array}$$

$$\begin{array}{r} 2.1 \\ 33 \end{array}$$

$$\begin{array}{r} 6.6 \\ 33 \end{array}$$

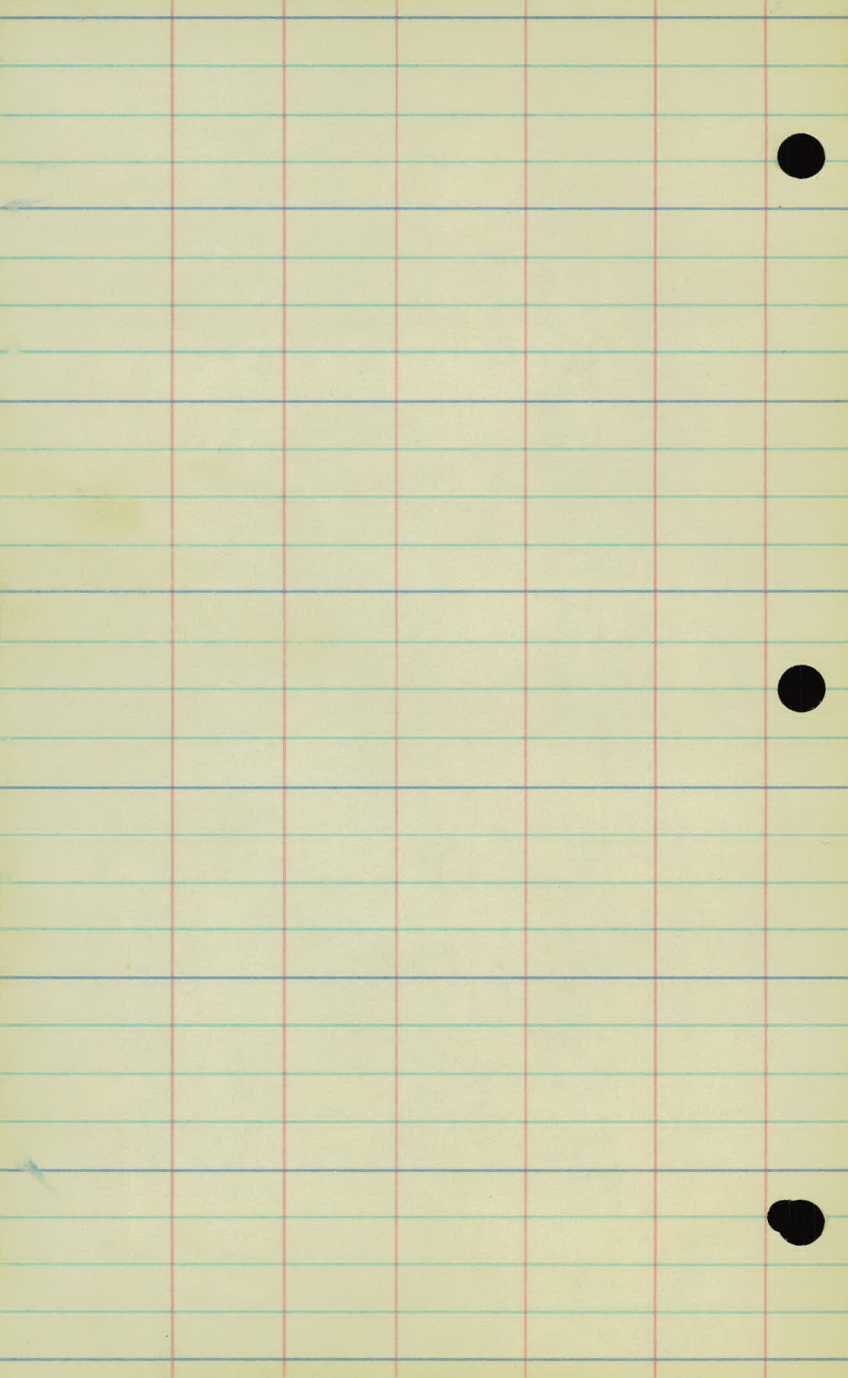
$$\begin{array}{r} 5.6 \end{array}$$

$$\begin{array}{r} 6.7 \\ 33 \end{array}$$

$$\begin{array}{r} 5.5 \\ 33 \end{array}$$

$$\begin{array}{r} 4.3 \end{array}$$

$$\begin{array}{r} 4.0 \\ 33 \end{array}$$



Slope Stakes

Holloway Ave.

East Ave to Furness

St.	+	π	-	Grade	
B.M.	5.52	988.02		982.50	53
11			11.90	976.12	
0+0					
+15					
+20				76.8	
+40				77.0 ✓	11.1
+60				77.1 ✓	14.2
+80				77.3	10.9
+100				77.5	10.7
+50				78.0 ✓	10.1
+20				78.4	
+40				78.8	
+65				79.0	
+70				79.0	

Lt.

L

Rt.

Aug. 20 1976⁸

Iron Works, Howard + Alloway S.W. Corner.

Nail in T.R. N.E. Cor. East Ave. (76.08)

$$11.1 \quad 76.7 \overline{) 100.0} \\ + 1.1$$

$$109 \\ + 0.2$$

$$12.4 \\ 0.2 \overline{) 21.9}$$

$$11.1 \quad 29.9 \overline{) 84} \\ + 2.7$$

$$97 \\ + 1.4$$

$$11.3 \\ 0.3 \overline{) 24.1}$$

10.9

x

$$10.7 \quad 32 \overline{) 4.1} \\ + 6.3$$

$$5. \\ 5.5$$

$$6.1 \\ 4.6 \overline{) 33.0}$$

$$10.1 \quad 33.0 \overline{) 3.3} \\ + 6.8$$

$$14 \\ 8.7$$

$$1.3 \\ 8.8 \overline{) 33.0}$$

$$9.8 \quad 30.7 \overline{) 6.7} \\ + 3.1$$

$$5.8 \\ + 4.0$$

$$5.2 \\ 4.6 \overline{) 33.0}$$

10.9

$$9.4 \quad 24.0 \overline{) 9.5} \\ + 1.4$$

$$8.8 \\ + 0.6$$

$$9.8 \\ 0.1 \overline{) 23.7}$$

9.2

9.2

56.

+

K

-

Grade

988.02

2+75

79.1

3+0

79.4

+50

79.9

T.R.

9.24

988.16

9.10

978.92

4

80.4

+50

81.0

5

81.5

+50

82.2

6

82.8

+52.85

83.5

BM

10.78

993.28

56.6

987.50

7

84.1

10.56

993.06

10.78

982.50

+50

84.8

8

85.4

4.

2

14.

9

$$9.1 \quad 106 \quad 215 \overline{) 2000} \quad 96$$

$$109 \overline{) 118}$$

$$1212 \overline{) 22.3} \quad 2$$

$$8.8 \quad 108 \quad 181 \overline{) 105} \quad 108$$

$$108 \overline{) 20}$$

$$116 \overline{) 20.8} \quad 26$$

$$8.3 \quad 105 \overline{) 103} \quad 190 \overline{) 10.3} \quad 105$$

$$105 \overline{) 22}$$

$$112 \overline{) 22.0} \quad 20$$

$$7.9 \quad 102 \overline{) 10.0} \quad 193 \overline{) 2.1} \quad 102$$

$$102 \overline{) 23}$$

$$105 \overline{) 20.8} \quad 26$$

$$7.3 \quad 196 \overline{) 2.5} \quad 22 \overline{) 2.5}$$

$$90 \overline{) 1.7}$$

$$95 \overline{) 196} \quad 22$$

$$6.8 \quad 187 \overline{) 87} \quad 1.9 \overline{) 87}$$

$$84 \overline{) 16}$$

$$87 \overline{) 187} \quad 19$$

$$6.1 \quad 181 \overline{) 7.8} \quad 7.7 \overline{) 7.8}$$

$$80 \overline{) 1.9}$$

$$85 \overline{) 20.2} \quad 24$$

$$5.5 \quad 169 \overline{) 6.8} \quad 1.3 \overline{) 6.8}$$

$$71 \overline{) 16}$$

$$79 \overline{) 20.2} \quad 24$$

4.8

$$61 \overline{) 159} \quad 61 \overline{) 20.2} \quad 24$$

$$9.3 \quad 105 \overline{) 10.5} \quad 105 \overline{) 10.5}$$

$$107 \overline{) 14}$$

$$104 \overline{) 163} \quad 101 \overline{) 22.9} \quad 27$$

$$8.4 \quad 227 \overline{) 9.3} \quad 206 \overline{) 9.3}$$

$$96 \overline{) 12}$$

$$96 \overline{) 22.1} \quad 203$$

$$7.8 \quad 233 \overline{) 8.4} \quad 209 \overline{) 8.4}$$

$$86 \overline{) 0.7}$$

$$90 \overline{) 22.1} \quad 203$$

86. + T - Grade

993.06

87.50

86.1

9

86.7

+52

87.5

10

88.5

+50

89.1

9.97

999.55

3.48

989.58

11

91.2

+50

93.0

12

95.0

+09: 2 Furness

95.0

+42

B.M.

2.71

996.84

H.

S

Rt

10

Aug. 21, 1936

7.1

$$25.1 / \begin{array}{r} 68 \\ 403 \end{array}$$

7.5

$$\begin{array}{r} 7.7 \\ 009 \end{array} / 2.1$$

6.5

$$76.3 / \begin{array}{r} 56 \\ 409 \end{array}$$

6.0

$$\begin{array}{r} 6.1 \\ 404 \end{array} / 75.3$$

5.7

$$76.5 / \begin{array}{r} 4.7 \\ 41.0 \end{array}$$

$$\begin{array}{r} 5.1 \\ 408 \end{array}$$

$$\begin{array}{r} 5.5 \\ 402 \end{array} / 24.9$$

4.7

$$75.9 / \begin{array}{r} 4.0 \\ 407 \end{array}$$

$$\begin{array}{r} 4.7 \\ 0.0 \end{array}$$

$$\begin{array}{r} 4.9 \\ 001.3 \end{array} / 24.1$$

3.5

$$24.9 / \begin{array}{r} 3.3 \\ 402 \end{array}$$

$$\begin{array}{r} 4.2 \\ 0.7 \end{array}$$

$$\begin{array}{r} 4.6 \\ 004 \end{array} / 22.3$$

8.5

$$73.5 / \begin{array}{r} 9.0 \\ 001.0 \end{array}$$

$$\begin{array}{r} 9.5 \\ 7.0 \end{array}$$

$$\begin{array}{r} 9.8 \\ 002 \end{array} / 21.9$$

6.7

8.2

$$22.7 / \begin{array}{r} 7.6 \\ 005.6 \end{array}$$

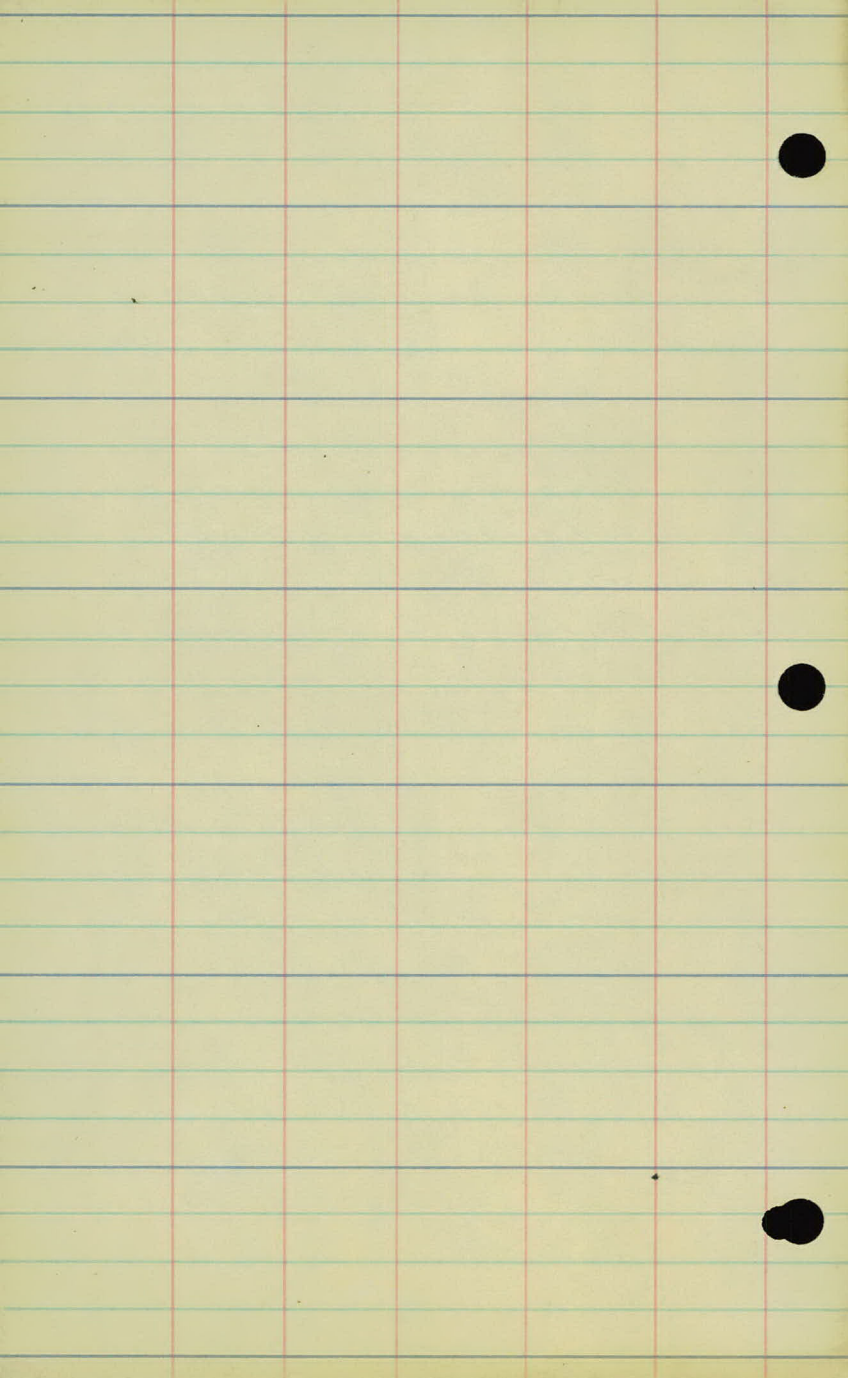
$$\begin{array}{r} 7.8 \\ 7.1 \end{array}$$

$$\begin{array}{r} 7.8 \\ 004 \end{array} / 22.3$$

4.7

$$\begin{array}{r} 5.2 \\ 0.5 \end{array} / 14.5 \quad \begin{array}{r} 5.2 \\ 001.0 \end{array} / 23.5$$

Rail Man. Furness & Holloway



Plan Survey

Holloway St

From Furness To East Ave

9/25/41

Cloudy & Cold

HAW

AM

CN

L.L

Drawn up 10/9/41
WJB

Index	Pages
Align	1-3
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Stg

Pf

ALY ART

12+09.42

£ East Ave

5+56.89

£ Howard Ave

0+00

£ Furness St.

14 ^{Tree} ^{Description} 14" Oak.

14
East 1/4 Sect 13
Twp 29 N R 22 W

97.64'

78.30'

Stone Mon.

44.25'

Arc Lt. Pole

Lot Iron

46.27'

Spk.

92.76'

N.E.
Cor Ho.

Iron Mon

46.71'

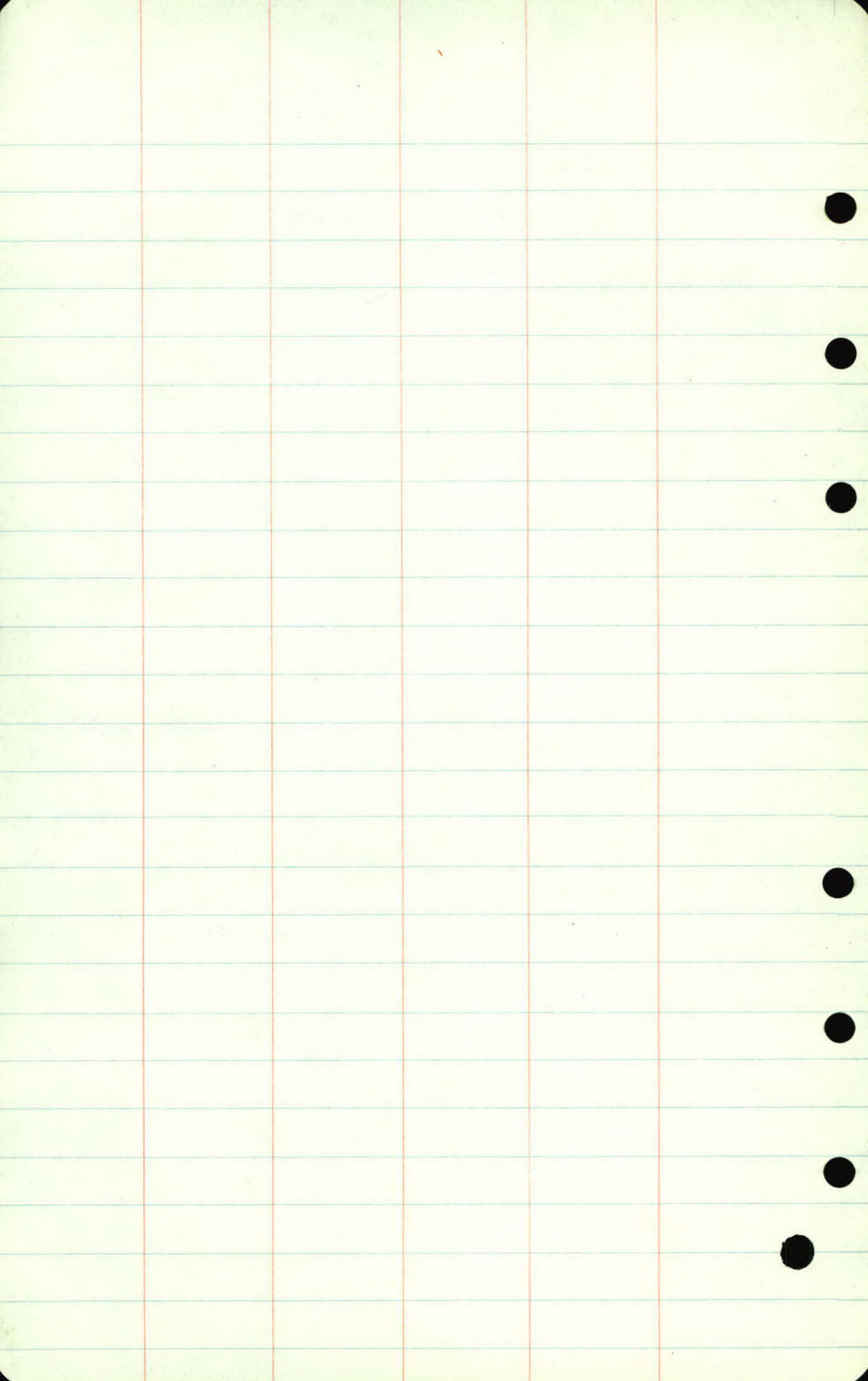
2" x 2" Hub

71.48'

32.86'

Iron Mon

P.P.



Topography

Rd

Howard Ave

5

1'-13'

4

2'-14'

3

3'-15'

2

4'-16'

1

1 - 13

0

Furness St

(4)

Uncultivated

+36 End Cult. 0' - - - -

+95 End Rad 20'
+82 Cor Hedge 35'
+72 Beg Rad 32'
+57 15'x38' C.M. 32'
+45 End Rad. 32'
+35 P.P. 38'
+26 End Hedge 36'
+23 Beg. Rad 15'

Ho
31' 33'

+95 Beg. Hedge 34'

+53 N.W. Cor 1/4 55'

+10 End Garden 40'
Garden
+66 Beg Garden 40'

Cultivated

+69 End Garden 40'
Garden

+84 Beg Garden 39'
+72 Ent 12x18' C.M. 29'
+61 Cor Pop. 35'

Yard. Row Pop. 36'

+43 End Rad. 13'
+37 Cor Row Pop 37'
+14 Beg Rad 50'

0+00 Beg. Cult 8' - - - -

0-10 Trail X R

0-33 E Trail 21'

0-18 Edge Rd.

0-33 R.R. Fc. Cor

Twin City Lines

12

19'

+85' X Drain
15" X 40' C.M.

21'

1' X 13' Rubble Headwalls Right

11

9-25'

10

4-19'

+40' X Drain 15" X 20' C.M.

1' - 21'

9

5'-17'

8

6-17'

7

7-21'

6

4-19'

Note: East Ave has
Rubble Gutter in
West Ditch

+97 End Rad 19'
+77 Beg Rad 0'
+76 Fc Cor 34'

Fc 34'

Fc 33'

+26 Fc Cor 33'

Pasture

Uncultivated

20' Black Top East Ave

+80 Arc Lt. P. 34'

+77 Rad. 21'

+74 End Pop 36'

+36 Beg Row 6 Pop 36'

+206" Pop 36'

+086" Pop 36'

+04 N.W. Cor Ho 50'

+02 Center 2' Conc Wal 36'

+956" Pop. 35'

+726" Pop 35'

+573" Elm 36'

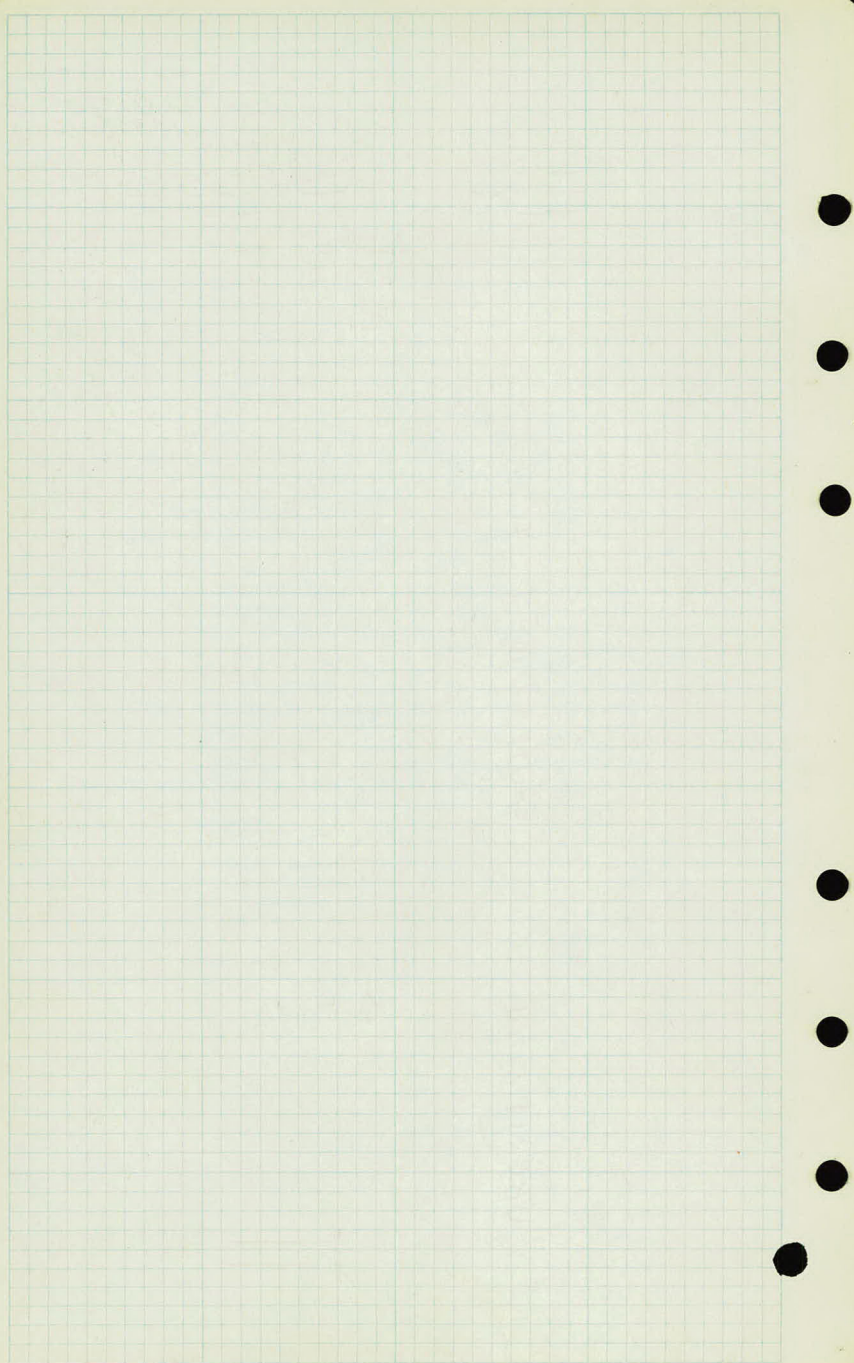
+41 N.W. Cor Ga. 49'

Ga 1/2
20'

Yards

+60 Ent. 15' x 20' C.M. 31

+02 End Hedge 36'



ck Levels . .

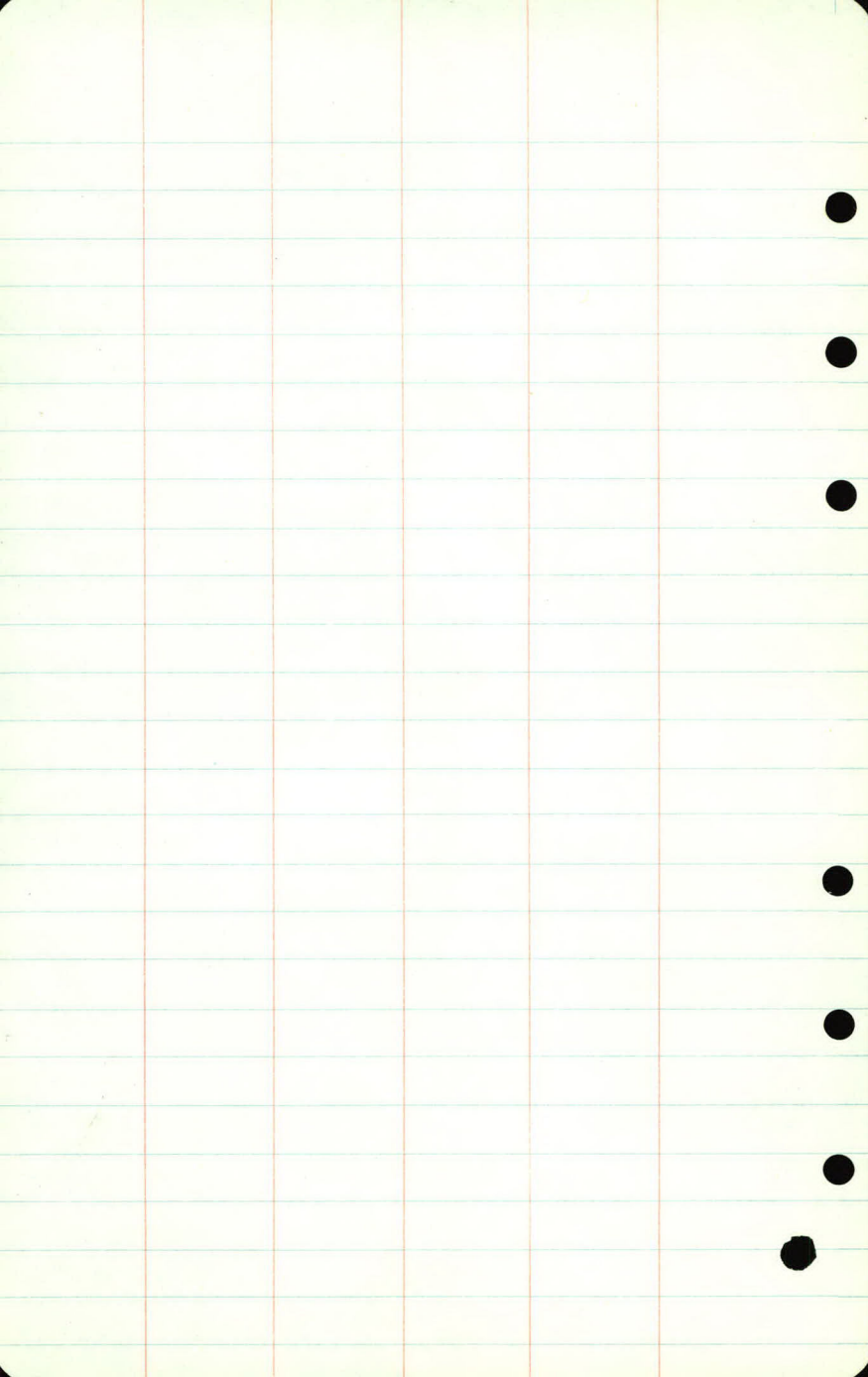
	+	Σ	-	Elev	
B.M	1.93	998.78		996.85	
	0.05	988.53	10.30	988.48	
	2.37	983.30	7.60	980.93	
B.M	6.35	983.43	6.35	976.95	977.08
	7.65	986.31	4.77	978.66	
	8.96	992.29	2.98	983.33	
	8.83	998.52	2.60	989.69	
B.M			1.52	997.00	

Description

Top Iron R.O.W. Mon $\pm$ 0-33

Spk. in 14" Oak N.E. Cor. East Ave & Halloway

Top Iron R.O.W. Mon $\pm$ 0-33



X Sections

Sta.	+	π	-	Elev
B.M	1.52	998.52		997.00
0-14		West Shd. Furness		95.1

0				
0+00		E. Furness		95.3

415		East Shd.		94.7
-----	--	-----------	--	------

+19				94.4
-----	--	--	--	------

+27				94.0
-----	--	--	--	------

+29				93.9
-----	--	--	--	------

+50				92.3
-----	--	--	--	------

1+00				90.7
------	--	--	--	------

+50				89.4
-----	--	--	--	------

2				88.7
---	--	--	--	------

+50				88.1
-----	--	--	--	------

3				87.4
---	--	--	--	------

T.P	1.79	989.04	1127	987.25
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Lt ✕ Rt.

Top Iron Row Mon ± 0-33'

$\frac{3.4}{50}$ $\frac{2.7}{20}$ $\frac{2.9}{9}$ 34 $\frac{3.2}{14}$ $\frac{3.0}{25}$ $\frac{2.9}{50}$

$\frac{4.2}{50}$ $\frac{4.1}{26}$ $\frac{3.0}{7}$ 32 $\frac{2.5}{50}$ $\frac{1.1}{100}$ $\frac{0.0}{125}$

$\frac{4.9}{50}$ $\frac{4.4}{25}$ $\frac{3.1}{6}$ 3.8 $\frac{3.5}{23}$ $\frac{3.7}{41}$ $\frac{3.2}{50}$

$\frac{4.9}{50}$ $\frac{4.4}{25}$ $\frac{3.6}{6}$ 41 $\frac{3.8}{18}$ $\frac{4.0}{34}$ $\frac{4.1}{50}$

$\frac{5.5}{50}$ $\frac{4.9}{18}$ $\frac{4.4}{6}$ 45 $\frac{4.4}{4}$ $\frac{4.4}{18}$ $\frac{5.0}{28}$ $\frac{5.7}{33}$ $\frac{5.5}{50}$

$\frac{5.5}{50}$ $\frac{4.9}{18}$ $\frac{4.4}{6}$ 46 $\frac{4.7}{14}$ $\frac{5.4}{27}$ $\frac{4.6}{29}$ $\frac{4.5}{50}$

$\frac{6.5}{50}$ $\frac{6.2}{20}$ $\frac{5.7}{6}$ 62 $\frac{6.1}{11}$ $\frac{6.2}{24}$ $\frac{5.7}{27}$ $\frac{6.0}{36}$ $\frac{5.7}{50}$

$\frac{8.1}{50}$ $\frac{8.7}{25}$ $\frac{7.7}{6}$ 7.8 $\frac{8.3}{1}$ $\frac{8.1}{17}$ $\frac{7.4}{32}$ $\frac{6.8}{50}$

$\frac{9.3}{50}$ $\frac{9.7}{20}$ $\frac{9.4}{4}$ 9.1 $\frac{9.0}{18}$ $\frac{8.4}{35}$ $\frac{8.0}{50}$

$\frac{10.0}{50}$ $\frac{10.1}{7}$ 98 $\frac{9.7}{22}$ $\frac{9.3}{32}$ $\frac{8.7}{50}$

$\frac{10.5}{50}$ $\frac{10.5}{6}$ 10.4 $\frac{10.0}{3}$ $\frac{10.3}{4}$ $\frac{10.0}{32}$ $\frac{9.2}{50}$

$\frac{11.1}{50}$ $\frac{11.8}{35}$ 11.1 $\frac{11.1}{21}$ $\frac{11.4}{31}$ $\frac{9.9}{50}$

Sta	+	Δ	-	Elev
		989.04		
3+50				86.0
4				84.7
+50				83.8
5				83.6
+33				83.1
+37				83.2
+41		shld.		83.2
+56.89		$\pm$ Howard		83.1
+75		shld.		82.5
+80				82.1
+83				81.8
L				81.6
T.P.	2.29	984.91	6.42	982.62

Lt

Z

Rt

$$\frac{3.3}{50} \quad \frac{3.4}{32} \quad 3.0 \quad \frac{3.1}{19} \quad \frac{2.8}{21} \quad \frac{3.0}{31} \quad \frac{1.7}{50}$$

$$\frac{4.5}{50} \quad \frac{4.3}{22} \quad 4.3 \quad \frac{4.6}{4} \quad \frac{4.6}{17} \quad \frac{3.9}{18} \quad \frac{4.3}{34} \quad \frac{3.8}{50}$$

$$\frac{4.8}{50} \quad \frac{5.2}{29} \quad 5.2 \quad \frac{5.4}{16} \quad \frac{4.7}{31} \quad \frac{3.9}{50} \quad \frac{3.3}{\text{Elev. at Ho}}$$

$$\frac{5.2}{50} \quad \frac{5.5}{30} \quad \frac{5.9}{9} \quad 5.4 \quad \frac{5.7}{22} \quad \frac{6.0}{32} \quad \frac{5.4}{34} \quad \frac{4.5}{50}$$

$$\frac{6.0}{50} \quad \frac{6.3}{22} \quad 5.9 \quad \frac{5.9}{19} \quad \frac{5.4}{34} \quad \frac{5.5}{50}$$

$$\frac{6.0}{50} \quad \frac{6.3}{22} \quad 5.8 \quad \frac{6.1}{21} \quad \frac{5.7}{30} \quad \frac{6.8}{33} \quad \frac{6.6}{50}$$

$$\frac{6.0}{50} \quad \frac{6.5}{29} \quad \frac{6.4}{9} \quad 5.8 \quad \frac{5.9}{27} \quad \frac{5.4}{50}$$

$$\frac{6.3}{50} \quad \frac{6.6}{32} \quad \frac{7.6}{27} \quad \frac{6.4}{14} \quad 5.9 \quad \frac{5.7}{13} \quad \frac{5.0}{50} \quad \frac{4.8}{100} \quad \frac{4.3}{150}$$

$$\frac{7.3}{50} \quad \frac{8.1}{23} \quad \frac{7.3}{2} \quad 6.5 \quad \frac{6.0}{4} \quad \frac{6.1}{34} \quad \frac{6.0}{50}$$

$$\frac{7.3}{50} \quad \frac{8.1}{23} \quad \frac{7.3}{2} \quad 6.9 \quad \frac{6.0}{4} \quad \frac{6.1}{29} \quad \frac{8.4}{33} \quad \frac{8.1}{50}$$

$$\frac{7.3}{50} \quad \frac{8.1}{23} \quad \frac{7.3}{2} \quad 7.2 \quad \frac{6.3}{4} \quad \frac{6.0}{28} \quad \frac{8.4}{31-32} \quad \frac{6.4}{35} \quad \frac{6.3}{50}$$

$$\frac{8.1}{50} \quad \frac{7.9}{29} \quad \frac{7.8}{5} \quad 7.4 \quad \frac{6.3}{5} \quad \frac{6.3}{19} \quad \frac{5.9}{28} \quad \frac{8.6}{31-32} \quad \frac{6.7}{35} \quad \frac{6.8}{50}$$

Top Rock

Sta	+	π	-	Elev
		98491.		

6+50				81.1.
------	--	--	--	-------

7				80.3.
---	--	--	--	-------

+50				79.5.
-----	--	--	--	-------

8				78.9.
---	--	--	--	-------

+50				78.6.
-----	--	--	--	-------

9				79.1.
---	--	--	--	-------

+39		x Drain		76.9.
-----	--	---------	--	-------

+65				79.3.
-----	--	--	--	-------

10				78.4.
----	--	--	--	-------

+50				78.2.
-----	--	--	--	-------

+ 79				78.1.
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T.P.	4.98	983.12	6.77	978.14:
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11+12				77.6.
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Lt R Rt

$$\frac{47}{50} \frac{45}{25} \frac{44}{5} 3.8 \frac{26}{6} \frac{2.7}{29} \frac{44}{32} \frac{2.9}{35} \frac{3.4}{50}$$

$$\frac{45}{50} \frac{55}{27} \frac{5.2}{6} 4.6 \frac{35}{7} \frac{3.2}{28} \frac{6.0}{30-34} \frac{4.6}{35} \frac{4.7}{50}$$

$$\frac{6.3}{50} \frac{6.1}{25} 5.4 \frac{3.8}{6} \frac{3.9}{21} \frac{5.3}{28} \frac{6.8}{29-32} \frac{5.0}{33} \frac{5.4}{50}$$

$$\frac{6.9}{50} \frac{6.7}{27} 6.0 \frac{4.5}{5} \frac{4.7}{24} \frac{6.8}{27-30} \frac{5.8}{31} \frac{5.8}{50}$$

$$\frac{8.4}{50} \frac{8.0}{27} \frac{7.7}{3} 6.3 \frac{5.0}{3} \frac{5.0}{16} \frac{6.3}{25} \frac{7.4}{26-28} \frac{6.4}{30} \frac{6.3}{50}$$

$$\frac{9.2}{50} \frac{8.4}{27} \frac{7.6}{5} 5.8 \frac{5.5}{19} \frac{7.0}{26} \frac{7.9}{27} \frac{6.5}{50}$$

$$\frac{8.8}{50} \frac{8.8}{36} \frac{8.1}{23} \overset{\text{Inv}}{8.0} \frac{5.8}{2} \frac{6.1}{18} \overset{\text{Inv}}{7.73} \frac{8.0}{20-24} \frac{7.1}{50}$$

$$\frac{7.5}{50} \frac{6.9}{28} \frac{6.3}{10} 5.6 \frac{6.1}{4} \frac{6.3}{17} \frac{6.1}{26} \frac{6.6}{50}$$

$$\frac{3.8}{50} \frac{2.8}{33} \frac{7.2}{27} \frac{6.3}{14} 6.5 \frac{6.5}{19} \frac{5.4}{27} \frac{5.4}{50}$$

$$\frac{+12.0}{50} \frac{+12.0}{32} \frac{1.8}{29} \frac{6.5}{18} 6.7 \frac{6.2}{22} \frac{5.5}{35} \frac{5.0}{50} \frac{+8.5}{50} \text{Floor Ga}$$

$$\frac{+0.7}{50} \frac{+1.0}{31} \frac{6.4}{21} \frac{6.3}{13} 6.8 \frac{6.4}{13} \frac{6.0}{32} \frac{4.9}{34} \frac{4.9}{50}$$

$$\frac{2.3}{50} \frac{1.2}{27} \frac{5.6}{18} 5.5 \frac{4.6}{32} \frac{3.6}{34} \frac{3.0}{50} \text{Gro. at Ho.}$$

Sta	+	π	-	Elev
		983.12.		
11+33				77.4.
+77				77.4.
+83				77.1.
+88				77.2.
+92				77.2.
12+09.42		E East Ave		77.2
B.M		Loc		977.10. 977.08.

Lt

2

Rt.

$$\frac{6.1}{50} \quad \frac{5.0}{33} \quad \frac{5.8}{29} \quad \frac{5.8}{15} \quad 5.7 \quad \frac{4.5}{32} \quad \frac{3.7}{34} \quad \frac{3.3}{50}$$

$$\frac{7.9}{50} \quad \frac{7.6}{22} \quad \frac{6.2}{19} \quad 5.7 \quad \frac{5.3}{19} \quad \frac{4.1}{48} \quad \frac{4.3}{50}$$

$$\frac{8.3}{50} \quad \frac{8.0}{21} \quad \frac{6.26}{21} \quad 6.0 \quad \frac{5.32}{19} \quad \frac{7.0}{19} \quad \frac{6.9}{50}$$

$$\frac{8.37}{Inv}$$

$$\frac{8.2}{50} \quad \frac{7.8}{21} \quad \frac{6.30}{21} \quad 5.9 \quad \frac{5.51}{19} \quad \frac{7.0}{19} \quad \frac{6.9}{50}$$

$$\frac{7.35}{Inv}$$

$$\frac{7.3}{50} \quad \frac{6.7}{22} \quad 5.9 \quad \frac{5.8}{22} \quad \frac{5.2}{50}$$

$$\frac{7.6}{100} \quad \frac{6.9}{50} \quad 5.9 \quad \frac{4.8}{50} \quad \frac{3.5}{100}$$

Spk. in 14" Oak N.E. Cor. East Ave & Holloway

