

Book 50 - Dr. 6

OFFICE OF COUNTY ENGINEER
RAMSEY CO. MINN.

Preliminary Survey

ROAD ALONG TOP BLUFF

Pt. Douglas Rd.

From S.T.H. N^o 3

To Upper Afton Rd.

Road Acc't. No. 75

Date Filed 9-19-30

File

9-19-30

Read along top of Bluff
through
Highwood

9/19/75

J. H. Hensley Co. Engineer	
ST. PAUL, MINN.	
Date Filed	9-19-30
File No.	

STA. POINT Δ LT. Δ RT.

11+73³ P.O.T.

7+99⁵ P.O.T.

3+97²⁰ P.I.

58°-47'

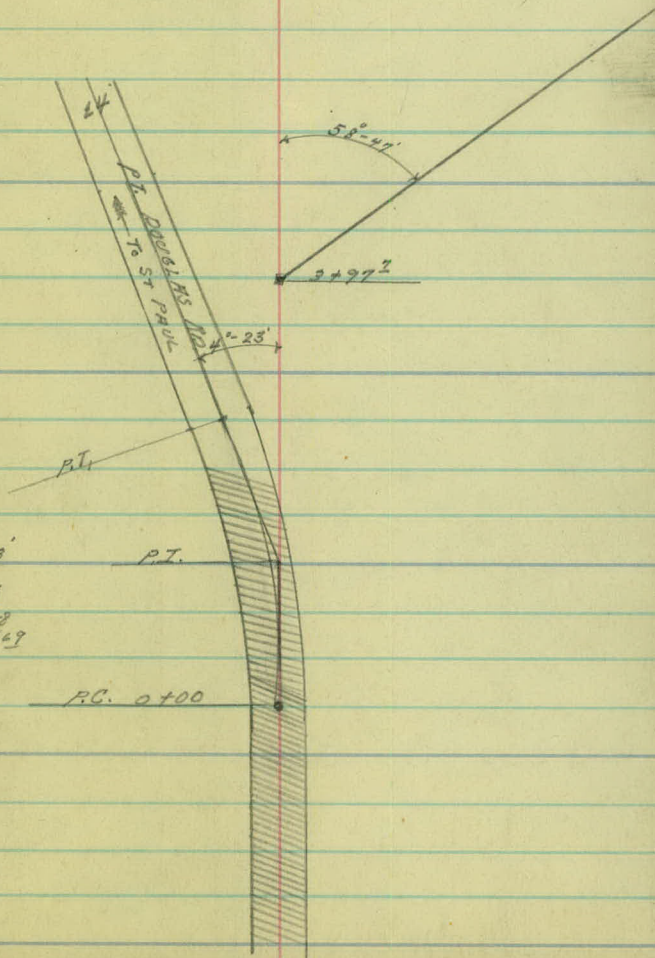
x

0+00

N. 39°-04 E.

N. 19°-43 W.

7-29-30



$A = 4^{\circ}-23'$
 $D = 4^{\circ}-41'$
 $T = 54.83$
 $L = 109.58$
 $R = 1432.69$

STA POINT ALT. APT

N 00°-00'E.

25+34⁸⁰ P.I. 25°-23'

X

22+10² P.O.T.

21+16⁹⁰ P.O.T.

N. 15°-23'E

17+90² P.O.T.

14+15² P.I. 13°-41'

X

13+63⁷ P.O.T.

N 39°-04'E

7-30-30

25-23°
SECTION
EAST AVE.

1930 P.P.
CARVER AVE.

1965

1930 P.P.

STA POINT. Δ LT. Δ RT

55+36³ P.O.T

49+55⁴ P.O.T

47+13³ P.O.T

44+00 P.O.T

38+78⁷ P.O.T.

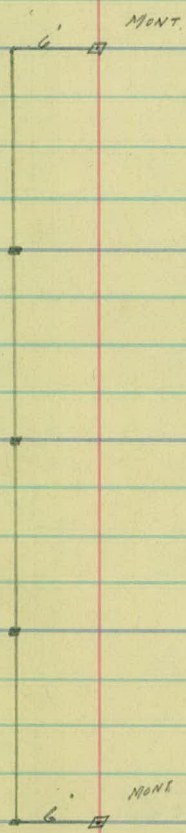
36+47⁵ P.I

0°-03'

N00°-03'E.

N00°-00'E. x

7-31-30



STA POINT Δ LT. Δ RT

88+70⁶ P.I. 1°-04'

82+46⁴ P.O.T.

75+77² P.O.T.

73+07⁵ P.O.T.

N60°-16'W.

65+77⁷ P.O.T.

62+64⁹ P.I. 0°-19'

N60°-03'E

8-1-30

LINCOLN

MONT.

SPR.

HIGHWOOD

STA. POINT ALT. ART

$129+72^{15}$ P.I. $31^{\circ}-09'$
 $128+72^{15}$

$129+25^4$ P.O.T.
 $128+25^4$

$122+82^4$ P.O.T.
 $121+82^4$

$115+13^2$

$113+00$ P.O.T.

$98+76^6$ P.O.T.

MONT

LOWER FETON

MONT.

STA POINT Δ LT Δ RT

168+41⁵ P.I. 52°08'
167+41⁵

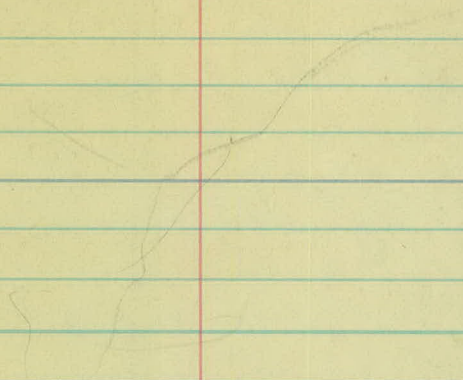
162+97⁸
161+97⁸

156+27⁷
155+27⁷

147+34⁶ P.O.T.
146+34⁶

135+00 P.O.T.
134+00

132+49⁴⁵ P.O.T.
131+49⁴⁵



7

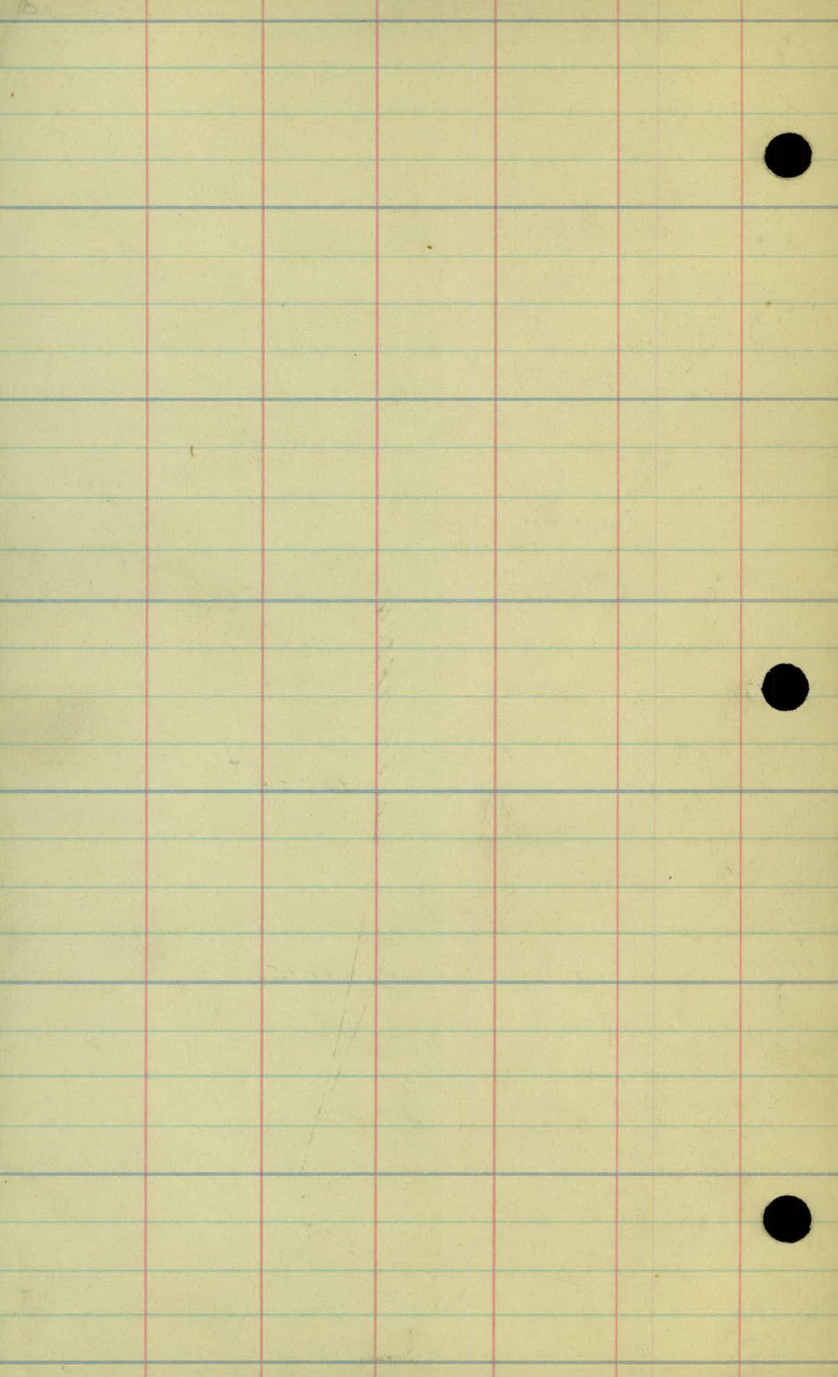
STA. POINT Δ LT Δ RT

181+53⁸ P.O.T.
180+53⁸

173+27² P.O.T.
172+27²

UPPER PERON

 $33 + 42 \frac{4}{5}$ $31 + 56 \frac{3}{4}$ $27 + 62 \frac{2}{3} \text{ pc.}$ $\sim 26 \frac{3}{4} \text{ in.}$



"A" LINE.
ART TOPOG

5

4

3

2

1

0.00

7-8-30

+58 T.P. 2.

WOODS.

+43 P.P. 29

+77 P.M. ENT.

+15 T.P. 13

+09 P.P. 18

WOODS

+08 C. POLE 22

+08 X DRAIN
15" X 30" C.M.
EXTENDS 10' R.
WITH HEAVY
WALLS
DRAINS LE
+77 T.P. 25

12

11

10

9

8

7

6

5

BRUSH & WOODS

721 X.F.

730 F. COR 25

F14

755 F. COR 7

730 F. 30

CULTIVATED

735 F. 49

703 X.F.

WOODS

751 & CHANER CREEK

TRAIL

WOODS

19

18

17

16

15

14

13

12

WOODS

SCRUB OAKS

790 F. 29

736 X.F.

UNCULTIVATED

760 F. COR 44

715 X.F.

708 F. 15

795 F. 41

PASTURE

730 F. 33

730 X.F.

WOODS

TOP OF BLUES

26

25

24

23

22

21

20

19

2789145

135 & TRAIL 1

& TRAIL 15

CULTIVATED

135 P.P. 1

108 & CARVER AVE

188 F.C.

179 T.P. 28

150 F. 92

CARVER AVE

WOODS

WOODS

33

32

31

30

29

28

27

26

2 TRAIL 14

○ RUBINSTEIN

2 APRIL 10

Q TRAIL 10

Q TRAIL 12

♀ TRAIL 11

2 TRAIL 8

Q. TRMIL 11

COLT/VBTRD

CULTIVATED

40

39

38

37

36

35

34

33

CULTIVATED

STUMPS & SCARP OAKS

CULTIVATED

748 F. Cor 11

717 TRAIL

7 TRAIL 17

CULTIVATED

7 TRAIL 15

UNCULTIVATED

STUMPS & SCARP OAKS

7 TRAIL 18

47

46

45

44

43

42

41

40

HAY
FIELD

SHRUB DOWN FENCE
Hedge

WOODS

CULTIVATED

UNCULTIVATED

CULTIVATED

STUMPS &
SCRUB GRASS.

CULTIVATED

54

53

52

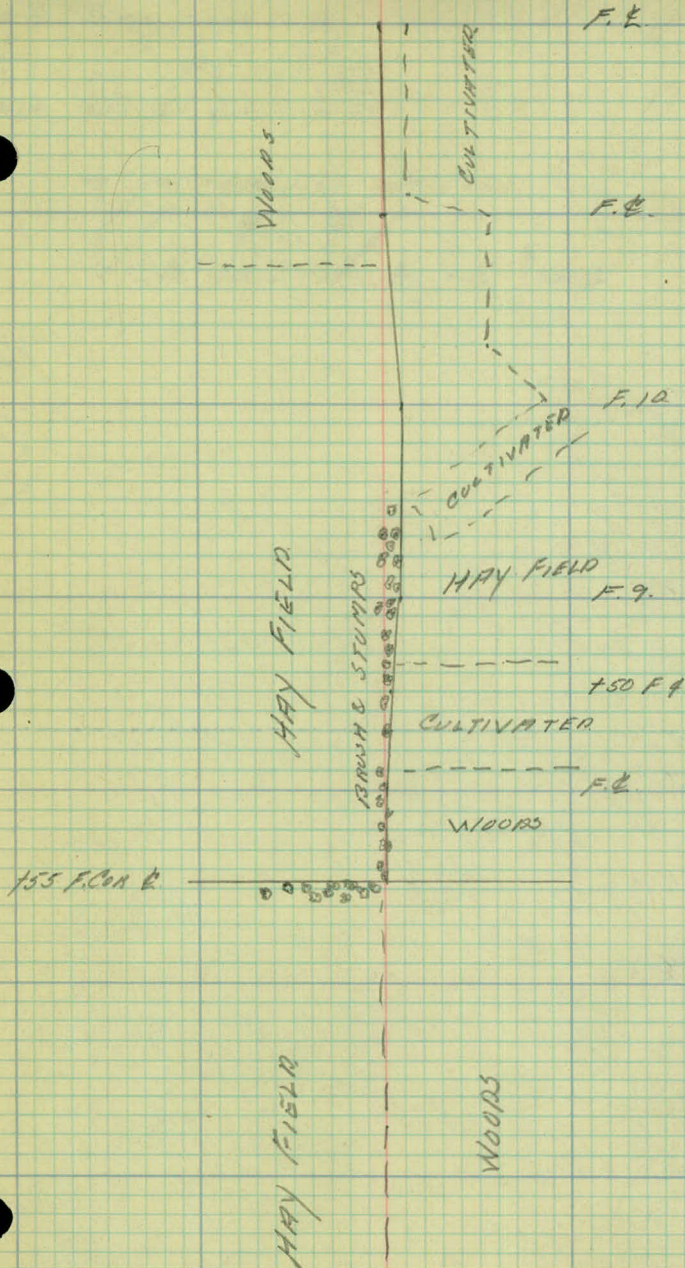
51

50

49

48

47



61

60

59

58

57

56

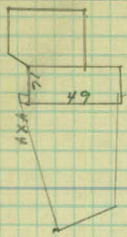
55

54

F2
194 F. COR 23
163 BARN 36

147 BARN 37
130 ENT.

177 F. COR 50



WOODS

HAY FIELD

WEEDS

BERRY PATCH

WOODS

STUMPS

CUT OVER LAND

F9

F10

F12

F. 3

F. 2

F1

68

67

66

65

64

63

62

61

WOODS

SCATTERED STUMPS

WOODS

+95 X.F.
+75 G. RAIL 58
+49 X. DRAIN
12" X 18 C.M.
EXTENDS 51.

+52 G. RAIL 42
+37 P. CO. 1

WOODS

CULTIVATED

+90 T.P. 5

+65 HIGHWAY

+77

FI'

75

74

73

72

71

70

69

68

ROAD 2

158 T.P. 12

ROAD 4

791 FARM ENT.

150 T.P. 11

ROAD 4

ROAD 4

ROAD 5

142 FARM ENT.

155 X DRAIN
12" X 28" C.M.
EXTENDS 72.87 A.P.
DRAINS RT.

DEBRIS
PATCH

ORCHARD

CULTIVATED.

UNCULTIVATED

ROAD 4

156 X. F.

HAY
FIELD

CULTIVATED

82

81

80

79

78

77

76

75

Q. ROAD 2

SCRUB
OAK



BERRY
PATCH

+06 T.P. 10

Q. ROAD 3

Q. ROAD 5

+43 T.P. 10

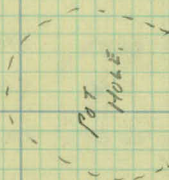
Q. ROAD 3

SCATTERED OAKS

UNCULTIVATED

+59 T.P. 10

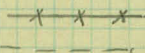
Q. ROAD 3



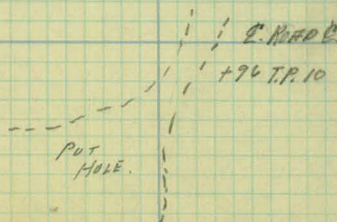
Q. ROAD 2
+99 T.P. 9

+23 FARM LENT

+77 X. F. 21



+77 X DRAIN
12" X 30' C.M.
EXTENDS 15' L.
DRAINS RIGHT



Q. ROAD 2

+96 T.P. 10

POT
HOLE

89

88

87

86

85

84

83

82

WOODS

Q ROAD 2
190 Q LINWOOD AVE
24" X 48 P3
128 S. DRAIN 34

Q ROAD 5

CULTIVATED

173 T.P. 19

Q ROAD 4

SARUB
CRMS

CULTIVATED

142 T.P. 17

Q ROAD 5

BERRY
PATCH



143 SHED 27

132 FARMINT

173 FARMINT

136 X.F. 38

Q ROAD 4

CULTIVATED

114 T.P. 15

Q ROAD 4

SARUB
CRMS

CULTIVATED

183 T.P. 12

Q ROAD 3

147 T.P. 10

96

95

94

93

92

91

90

89

Q ROAD 4
F. 26

7-7-30

Q ROAD 4

+07 T.P. 14
+01 FIELD ENT.

WOODS

CULTIVATED

Q ROAD 4
F. 26

+67 T.P. 14

+29 F. COR 26

Q ROAD 3

150' X DRAIN
18" X 30" C.M.
EXTENDS 171'
DRAINAGE LT.

WOODS

BOULDERS

DEEP
PATCH

Q ROAD 3

+80 T.P. 14

Q ROAD 3

CULTIVATED

+62 T.P. 14

Q ROAD 4

+87 LINWOOD AVE.

WOODS

+42 T.P. 14

+145 DRAIN 40

103

102

101

100

99

98

97

96

Q ROAD 1

POT
HOLE

Q ROAD 1
T.P.

186 F. COR 25

158 T. 35 & 27

Q ROAD 2
F. 38

195 T.P. 13

F. 32
Q ROAD 3

WOODS

WOODS

154 T.P. 14

Q ROAD 2
F. 25

Q ROAD 4

116 T.P. 14

Q ROAD 3
F. 26

WOODS

CULTIVATED

159 T.P. 13

110

109

108

107

106

105

104

103

F. 17

ROAD 1

61 X. F. 18

F. 20

ROAD 2

F. 20

CULTIVATED

WOODS

ROAD 2

97 X. F. 19

ROAD 2

F. 21

WOODED
PASTURE

ROAD 2

50 F. COR 27

POT
HOLE

ROAD 2

WOODS

ROAD 1

WOODS

117

116

115

114

113

112

111

110

Φ ROAD 9

Φ ROAD 5
+97 T.P. 18

+56 SIDE RD.

Φ ROAD 2

+58 T.P. 17

+93 ENT. TO FARM HOUSE.

+15 BARN ENT.

+76 BARN 53

+45 HAY STACK 16

+61 PUMP 28
+61 F.COR 13

+11 X DRAIN
12 X 4 C.M.
EXTENDS 11.12
DRAINS 25.

PASTURE

CULTIVATED

CULTIVATED

CULTIVATED

POT
HOLE

CULTIVATED

+06 SIDE RD.

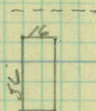
Φ ROAD 4

Φ ROAD 6

Φ ROAD 1

Φ ROAD 3

WOODS



124

123

122

121

120

119

118

117

Q ROAD 4

115+13

+34 T.P. 27

24 P.P. 27

Q ROAD 5

+73 P.M. ENT

CULTIVATED

+90 T.P. 33

Q ROAD 6

+90 APPLE T. 22

+77 P.P. 25

3 3 3
3 3 3

BERRY
PATCH

+74 G. POLE 5

Q ROAD 5

+50 T.P. 24

Q ROAD 7

HAY FIELD

CULTIVATED.

Q ROAD 7

+00 T.P. 22

Q ROAD 8

+48 T.P. 21

CULTIVATED.

POT
HOLE

1000
8000

131

130

129

128

127

126

125

124

138

137

136

135

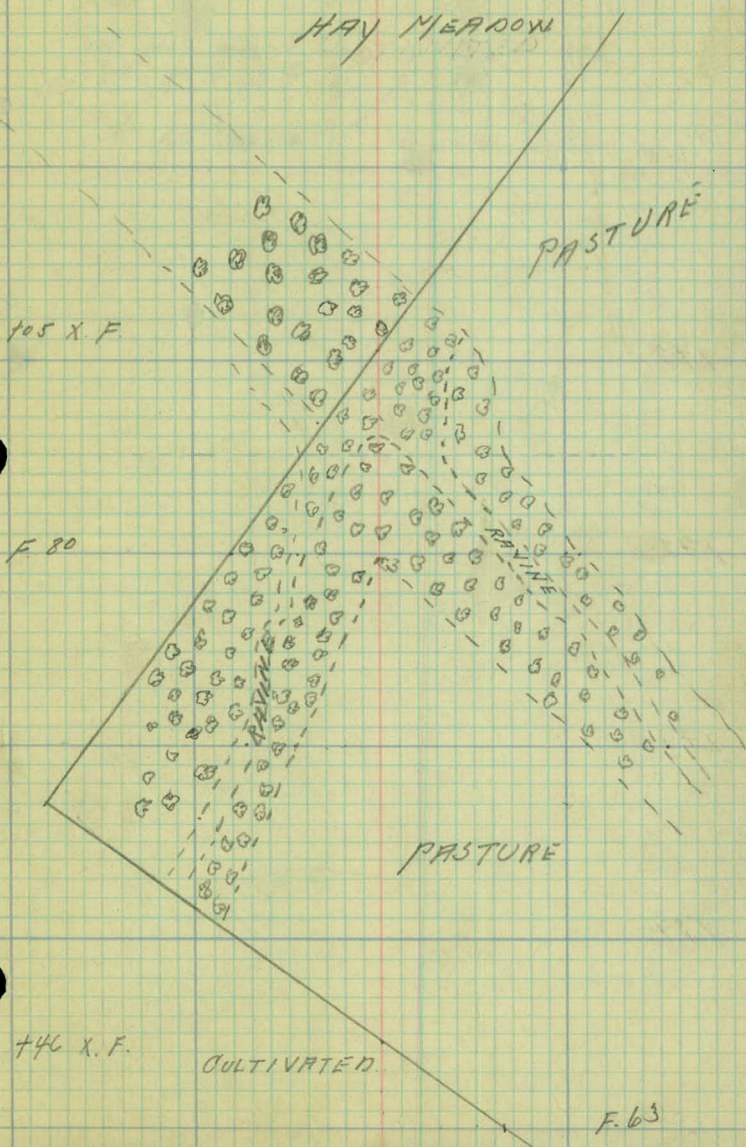
134

133

132

131

7-11-30



145

144

143

142

141

140

139

138

PASTURE.

F. 85

151 N.E.

CULTIVATED

141 N.E.

F. 82

HAY FIELD.

151 E. of CREEK

BRUSH

152

151

150

149

148

147

146

145

PASTURE.

PASTURE

150 F. 41

181 X. F.

145 X. F.

CULTIVATED.

E. 66 R.

WASH OUT

PASTURE

159

158

157

156

155

154

153

152

PASTURE

POT.
HOLE

F. 41

431 X. F.

PASTURE.

166

165

164

163

162

161

160

159

HAY FIELD

PASTURE

F 100

POT HOLE

PASTURE-

173

172

171

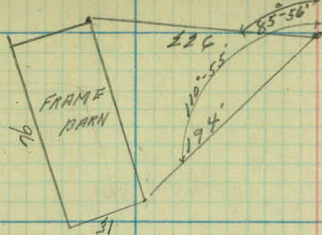
170

169

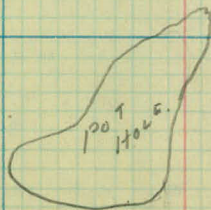
168

167

166



HAY FIELD



180

179

178

177

176

175

174

173

100 T.P. 2

197 X.F.

158 P.P. 27

P. 50

P. 99

180 T.P. 47

PASTURE

168 F.R.D.

158 X.F.

F 90

181 X.F.

HAY FIELD

187

186

185

184

183

182

181

180

F.38

150 F.38

198 P.P.22
192 F.COR 40

F.54

165 P.P.18

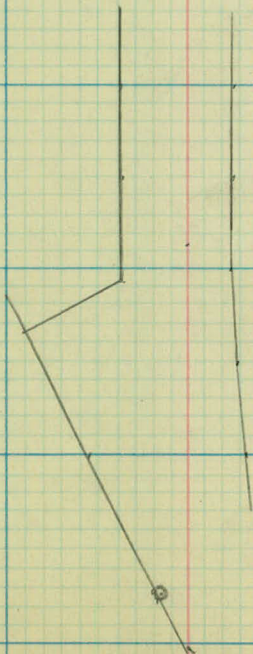
F.27

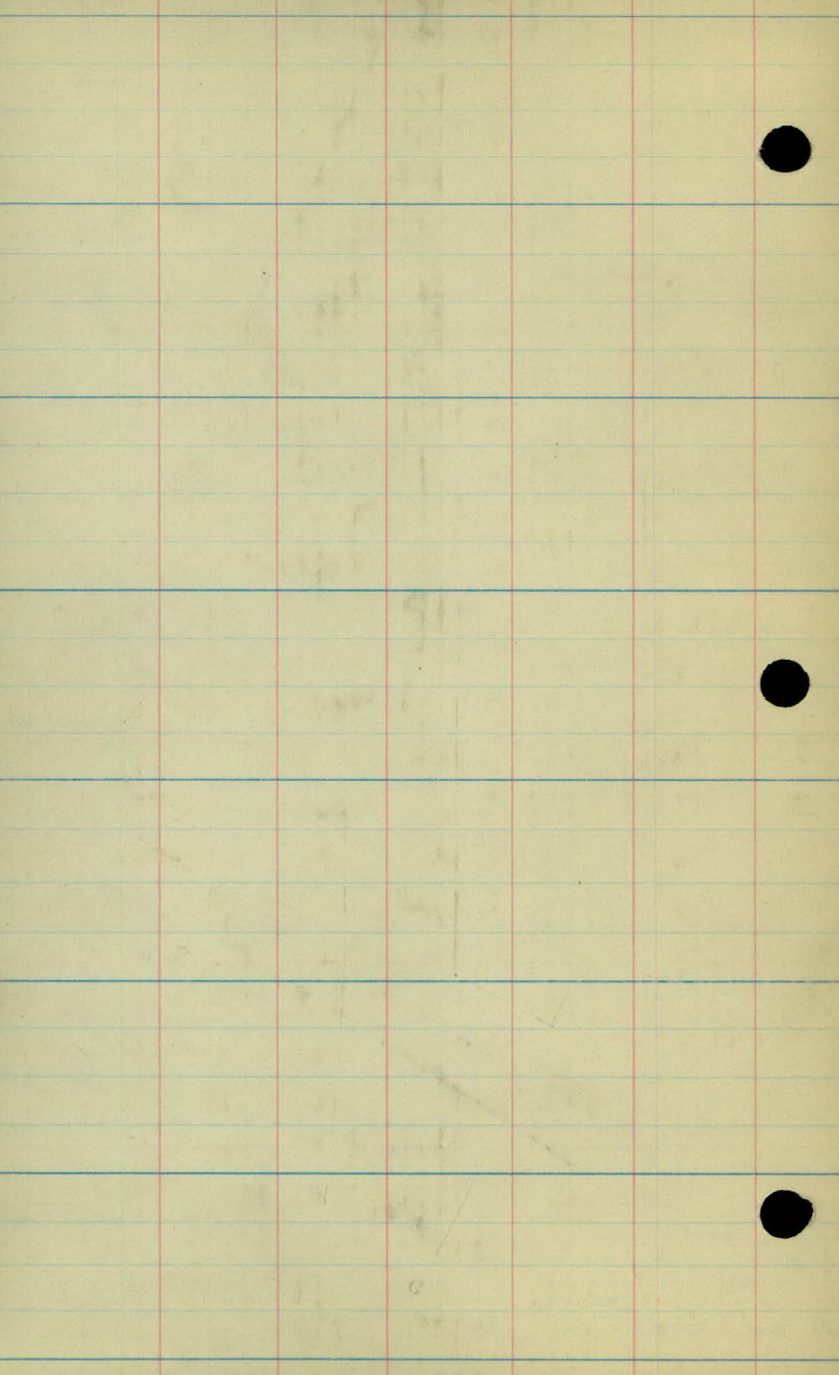
150 F.27

F.26

150 F.29

F.34





LOCATION OF
CARVER AVE.

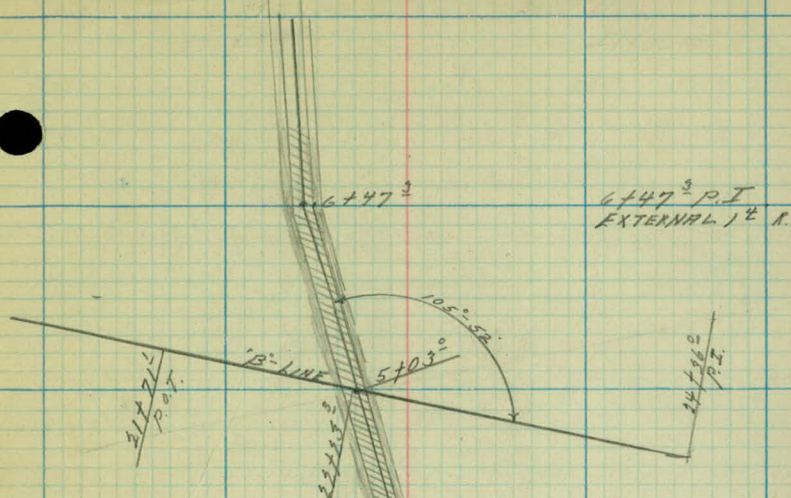
STA. POINT Δ LT Δ RT

6+47 ³

12°-13'

4+91 ⁶ P.I. 18°-13'

0+00



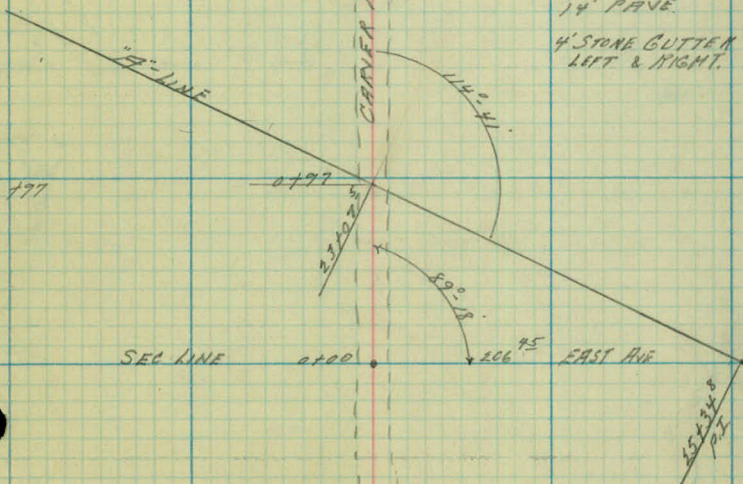
4+47.5 P.I.
EXTERNAL 1 1/2 R.

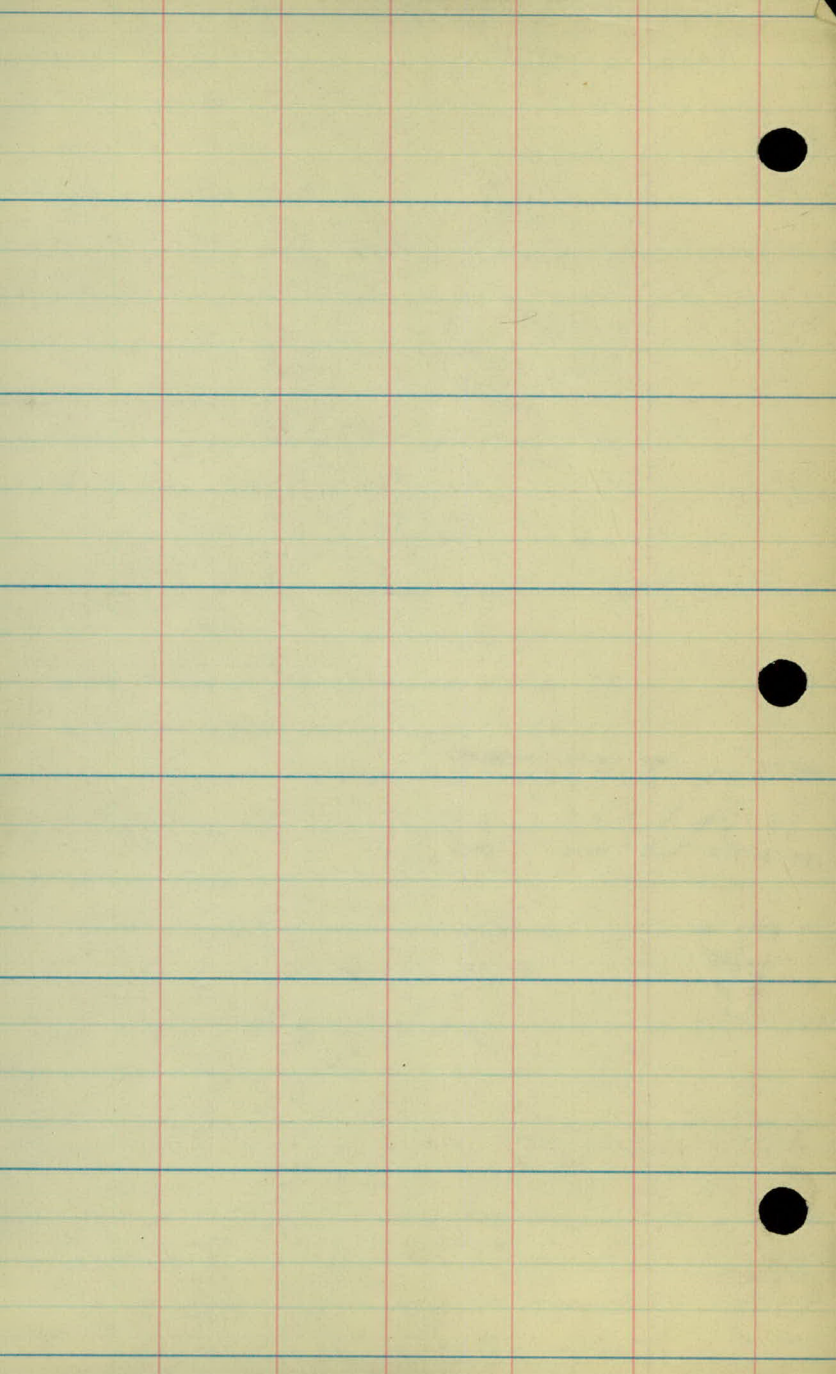
4+91.5 P.I.
EXTERNAL 3 1/2 L.

4+91.5

3+48.2 BEG. OF
14' PAVE.

4' STONE GUTTER
LEFT & RIGHT.





2 STORY FRAME
HOUSE

COOP

CORN CRIB

GARAGE

SHED

COOP

BARN

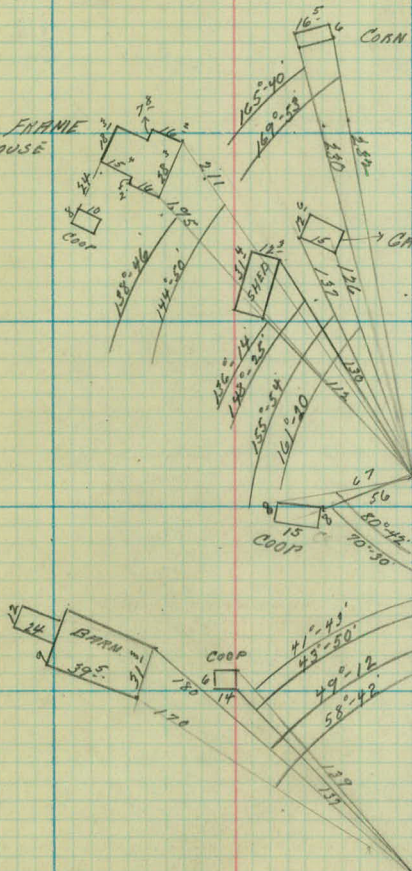
COOP

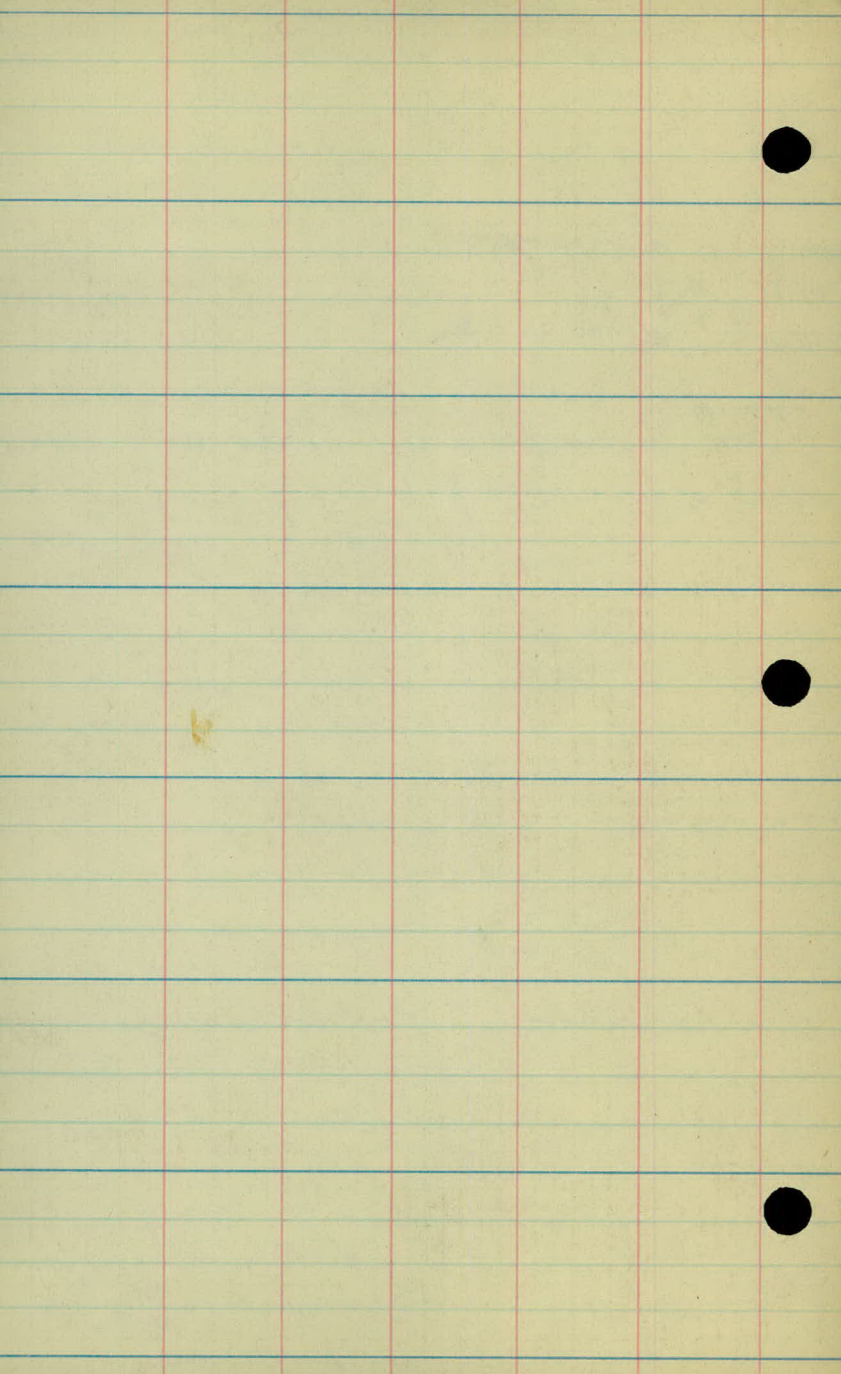
44+15'

44

43

"B" LINE





S+A. POINT Δ LT Δ RT.

38+78.7 P.O.T

36+51.7 P.I. $14^{\circ}-42' = 36+47.5$ H.LINE. X

31+14.65 P.O.T.

24+36.0 P.I.

$16^{\circ}-23'$

21+71.1 P.O.T.

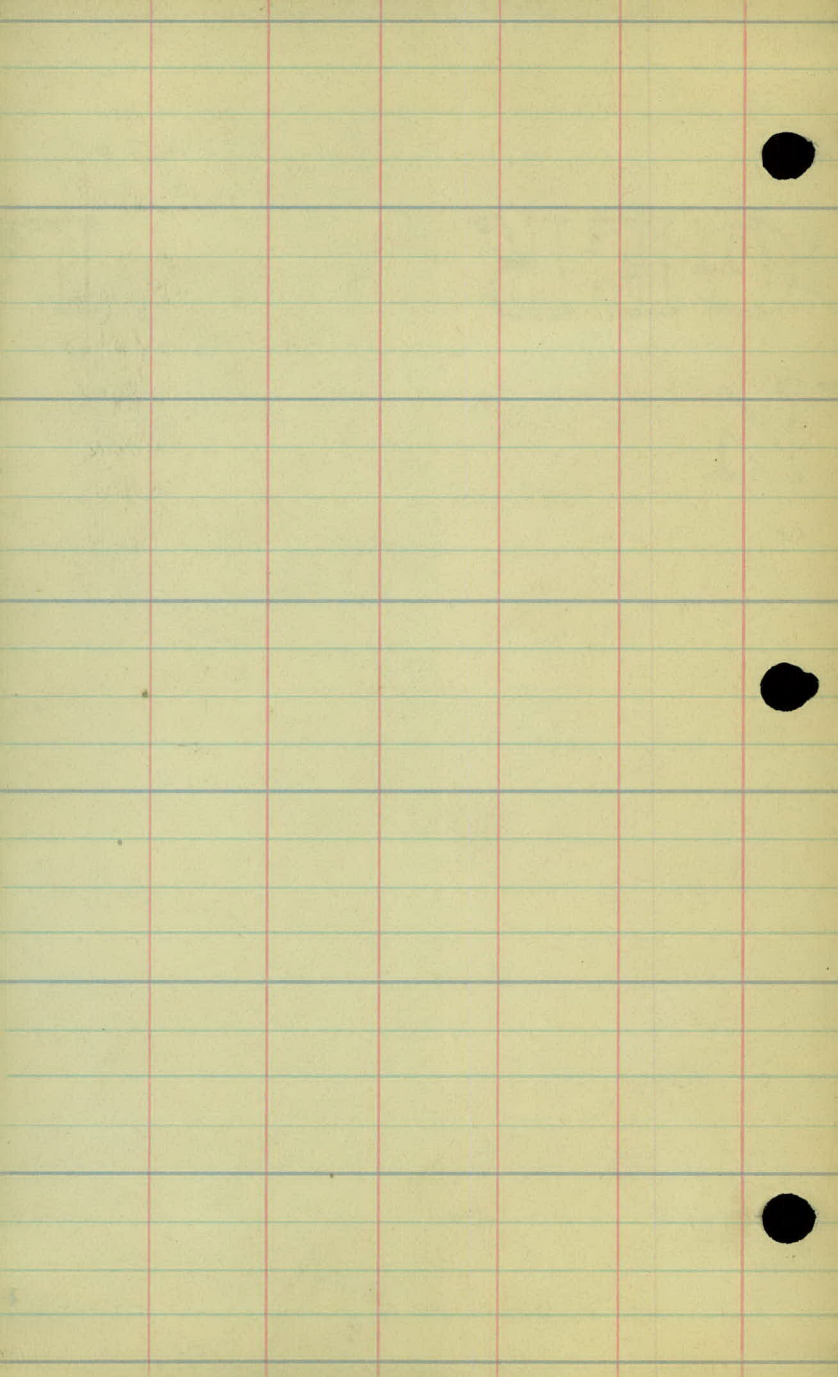
N. $24^{\circ}-58'$ E.

N. $01^{\circ}-35'$ W. X

8-14-30

STONE MT

C = LINE.



(Bench Levels)
"A." Line

Sta.			Hot	Aug. 7-30
B.M.	2.53	857.48		854.95
T.P.	11.11	866.23	2.36	855.12
" "	0.91	855.86	11.28	854.95
B.M.			2.18	853.68
T.P.	0.76	853.85	2.77	853.09
	0.45	842.49	11.81	842.04
	0.68	830.82	12.35	830.14
	1.34	819.77	12.39	818.43
B.M.			8.27	811.50
	0.56	808.22	12.11	807.66
	0.18	796.10	12.30	795.92
	0.02	784.27	11.85	784.25
	0.31	772.20	12.38	771.89
	0.25	760.54	11.91	760.29
	1.50	750.31	11.73	748.81
B.M.			11.78	738.53
	2.56	741.74	11.13	739.18
B.M.			5.13	736.61
	<u>23.16</u>		<u>141.50</u>	854.95
			23.16	736.61
			<u>118.34</u> ✓	<u>118.34</u> ✓

Hot

Spike in P.P. Int. Carver Rd. + East Ave.

Spike in 20" Oak 55' Rt Sta 19+80

Spike in 14" Oak 100' Rt 11+50

Spike in 46" C.W. 120' Lt Sta. 5+70

Spike in P.P. 25' Lt Sta. 2+45

Sta.	(Profile Levels)			Red. Elev.
BM	5.13	741.74		736.61
0+00			4.42	737.32
1+00			5.06	736.68
2+00			5.76	735.98
+12			5.76	735.98
3+00			4.6	737.14
4+00			5.6	736.14
B.M.	9.32	745.93	5.13	736.61
5+00			3.1	742.8
6+00			3.6	42.3
+15			3.3	42.6
T.P.	3.01	746.01	2.93	743.00
+27			11.4	34.6
+40			12.5	33.5
+45			63	39.7
+85			2.3	43.7
7+00			2.4	43.6
+28			3.8	42.2
T.P.	12.41	756.77	1.65	744.36
+58			0.7	56.1
T.P.	11.31	767.66	0.42	756.35
7+76			5.5	62.2
8+00			1.7	66.0
T.P.	6.21	772.32	1.55	766.11
9			5.6	66.7
10			1.8	70.5
T.P.	11.89	782.96	1.25	771.07

Hot

Aug. 8-30 (Remarks)

spike in P.P. 25' ht Sta. 2+45

No. Edge of Pav.

spike in P.P. 25' ht. Sta. 2+45

Top Stake Sta. 5+00

		H.I.		Rod. Elev.	
Sta.	+		-		
		782.96	✓	2	
0+60				5.0	78.0
+70				0.5	82.5
T.P.	10.94	793.67	✓	0.23	782.73
11+00				4.7	89.0
T.P.	11.42	804.45	✓	0.64	793.03
+50				7.0	797.5
T.P.	11.88	815.95	✓	0.38	804.07
B.M.			4.44		811.51
12				10.0	805.6
T.P.	12.04	827.57	✓	0.42	815.53
+60				9.6	18.0
T.P.	12.07	839.27	✓	0.37	827.20
13				9.6	29.7
T.P.	11.18	849.88	✓	0.57	838.70
+45				5.3	44.6
T.P.	7.66	856.13	✓	1.41	848.47
+65				7.8	48.3
14				5.0	51.1
+18				3.3	52.8
+72				3.6	52.5
15				5.9	50.2
16				13.8	42.3
+55				12.5	44.9
17				7.2	48.9
+33				0.9	55.2
T.P.	4.94	860.85	✓	0.22	855.91

Hot

Aug 8-30 Remarks.

Spike in 14" Oak 100' Rt Sta. 11+50

Sta.	+	H.I.	-	Red.	Elev.
		860.85 ✓		£	
18+00				2.8	58.1
+40				8.2	52.7
T.P.	6.47	856.30 ✓	11.02		849.83 ✓
+90				13.2	43.1
19				13.7	42.6
20				9.2	47.1
B.M.			2.62		853.68 ✓ 853.68
T.P.	11.36	866.59 ✓	1.07		855.23 ✓
20+60				9.4	57.2 ✓
21				3.4	63.2 ✓
+25				2.7	63.9
+50				5.3	61.3
T.P.	0.63	856.52 ✓	10.70		855.89 ✓
22				4.7	51.8
+37				6.4	50.1
+84				2.8	53.7
23				5.0	51.5
+08				4.4	52.1
+20				4.7	51.8
+22				4.0	52.5
+30				5.2	51.3
24				2.2	54.3
T.P.	7.28	862.12 ✓	1.68		854.84 ✓
B.M.			7.18		854.94 ✓ 854.95
24+19				5.8	56.3
+75				6.8	55.3

1107
Aug. 8-30 (Remarks)

Spike in 20" Oak 55' Rt Sta. 19+80

So. Edge of Present Traveled Rd. Carver.
E Carver.

Spike in P.P. 100' Rt Sta. 23+85

Sta.	+	H.I.	-	Pod.	Elev.
		862.12			
25+00				6.0	856.12
+35	P.I.			3.8	58.3
+72				2.8	59.3
26				6.0	56.1
+32				9.5	52.6
27				10.0	52.1
+43				5.5	56.6
28				7.0	55.1
29				2.3	59.8
T.P.	12.22	872.11	2.23		859.89
T.P.	12.50	884.07	0.54		871.57
30				12.0	72.1
+50				3.9	80.2
31				5.0	79.1
+65				3.9	80.2
32				1.0	83.1
T.P.	11.36	894.38	1.05		883.05
32+60				3.8	90.6
T.P.	11.04	905.05	0.37		894.01
33				10.4	894.7
34				1.6	903.5
T.P.	10.95	914.61	1.39		903.66
T.P.	12.38	926.80	0.19		914.42
35				4.5	22.3
T.P.	12.44	938.09	1.15		925.65
+70				5.7	32.3

Aug 6-30 (Remarks) (Hot)

Int. of East Ave.

Top Stake 31 + 90

Sta.	+	H.I.	-	rod	Elev
		938.09 ✓			
36 +00				42	33.9
+33				4.8	33.3
B.M.			5.98		932.11 ✓
+45				6.0	32.1
T.P.	11.59	947.34 ✓	2.34		935.75 ✓
37				10.4	36.9
+40				6.7	40.6
38				6.4	40.9
T.P.	5.33	952.06 ✓	0.61		946.73 ✓
+55				3.5	48.6
39				6.5	45.6
+50				11.4	40.7
T.P.	2.78	943.84 ✓	11.00		941.06 ✓
40				3.6	40.2
+36				8.0	35.8
41				6.0	37.8
+25				5.6	38.2
42				11.8	32.0
43				9.5	34.2
+40				10.5	32.3
T.P.	1.21	934.37 ✓	10.68		933.16 ✓
44				4.7	29.7
45				10.1	24.3
T.P.	0.71	925.03 ✓	10.05		924.32 ✓
46				6.8	18.2
+45				6.4	18.6

Aug 8-30 (Remarks) Hst.

S.E. cor. Mont. Sta. 36+475

Sta.	+	H.I.	-	Red	Elev
		925.03			
T.P.	2.19	915.65	11.57		913.46
47					
B.M.		032			915.33
47				1.4	14.3
T.P.	2.83	906.90	11.58		904.07
+80				6.6	900.3
48				7.0	899.9
T.P.	8.30	914.12	1.08		905.82
+70	-			2.6	911.5
49				5.6	08.5
T.P.	1.09	905.90	9.31		904.81
B.M.		408			901.82
50				8.5	897.4
+22				9.5	96.4
T.P.	0.63	894.42	12.11		893.79
51				7.0	87.4
+70				10.7	83.7
52				8.1	86.3
T.P.	5.09	897.76	17.5		892.67
+44				2.1	95.7
+65				2.1	95.1
53				10.0	87.8
T.P.	0.34	885.99	12.11		885.65
+70				10.4	75.6
54				7.0	79.0
130				2.6	83.4

Aug. 8-30 —

18" Oak 3 Rt Sta 47+06 (orig.)

S.W. cor. Mont. 49+55.3 = 26+11.2 (old)

Sta.	+	H.I.	-	Red.	Elev.
V		885.99			
54+72				1.4	84.6
T.P.	10.90	896.21	0.68		885.31
55				6.1	90.1
T.P.	5.09	900.66	0.64		895.57
+25				2.9	97.8
+36				1.9	98.8
+50				3.9	896.8
T.P.	1.99	891.00	11.65		889.01
56				6.6	884.4
+15				9.0	882.0
+44				6.5	884.5
+75				7.5	883.5
57				11.2	879.8
BM	1.36	887.58	4.78		886.22
T.P.	2.45	878.48	11.55		876.03
+50				12.5	866.0
T.P.	1.66	868.17	11.97		866.51
T.P.	0.59	856.90	11.86		856.31
58				8.0	48.9
+09				11.0	45.9
59				13.4	43.5
+40				11.8	45.1
60				3.8	853.1
T.P.	11.60	867.84	0.66		856.24
+58				3.8	64.0
T.P.	12.05	879.42	0.47		867.37

Aug. 8th 1930.

4 P.M.
Spike in 10" Oak 20' Lt Sta. 56+54 (New)
Aug. - 12 - 30 P.M. (33+10) 219

Sta.	+	H.I.	-	Rod	Elev.
		879.42 ✓			
+62				12.3	67.1
61				6.1	73.3
+50				2.7	76.7
T.P.	5.62	884.68 ✓	0.36		879.06 ✓
62				5.8	78.9
+50				5.3	79.4
+57				6.4	78.3
+66				6.1	78.6
+74				6.5	78.2
+87				6.6	78.1
63				10.3	74.4
B.M.		4.87			879.81 ✓
T.P.	6.94	880.09 ✓	11.53		873.15 ✓
+25				7.1	73.0
+82				8.0	72.1
64				4.1	76.0
+08				3.5	76.6
+12				0.5	79.6
T.P.	11.78	891.39 ✓	0.50		879.59
+50				2.2	89.2 ✓
T.P.	11.16	901.99 ✓	0.54		890.83 ✓
65				2.3	899.7
T.P.	11.76	913.59 ✓	0.16		901.83 ✓
+40				1.0	912.6
T.P.	10.57	923.20 ✓	0.96		912.63 ✓

£ Highwood Ave.

Spike in T.R. Highwood Ave.

Sta.	+	H.I.	-	Red.	Elev.
		923.20 ✓			
+64				3.6	919.6
T.P.	8.91	930.94 ✓	1.17		922.03 ✓
+80				7.8	23.1
66				6.2	24.7
67				6.3	24.6
+50				6.6	24.3
+85				4.4	26.5
68				5.0	25.9
+21				6.6	24.3
+55				5.0	25.9
+85				0.4	30.5
T.P.	9.83	937.41 ✓	3.36		937.58 ✓
B.M.			10.07		927.34 ✓
69				5.8	31.6
+35				4.0	33.1
70				4.7	32.7
+50				6.2	31.2
71				6.1	31.3
+40				5.5	31.9
72				0.10	37.3
T.P.	10.24	946.54 ✓	1.11		936.30 ✓
+78				3.5	43.0
73				2.8	43.7
74				3.2	43.3
+50				5.4	41.1
75				10.6	35.9

Aug-12-30

spike in 12" Oak 70' RT 68+40

Sta.	+	H.I.	-	Red.	Elev
		946.54 ✓			
+50				10.6	35.9
76				8.1	38.4
B.M.	8.29	952.88 ✓	1.95		944.59 ✓
+50				11.2	41.7
77				10.4	42.5
+50				9.8	43.1
78				7.3	45.6
+50				5.0	47.9
79				5.0	47.9
+50				5.0	47.9
80				4.2	48.7
+50				2.5	50.4
81				0.5	52.4
T.P.	9.02	961.43 ✓	0.47		952.41 ✓
+50				5.8	55.6
82				3.7	57.7
+50				2.3	59.1
83				2.8	58.6
+50				3.8	57.6
84				4.6	56.8
+50				5.2	56.2
85				6.4	55.0
+50				6.0	55.4
86				5.3	56.1
+50				5.3	56.1
87				6.0	55.4

Spike in 30" W.O. 61' Lt 76+12

Aug 14-30

Sta.	+	H.I.	-	Red	Elev.
		961.43 ✓			
+50				8.8	52.6
88				9.8	51.6
T.P.	2.55	954.30 ✓	9.68		951.75 ✓
+50				3.3	51.0
89				4.6	49.7
B.M.			2.89		951.41 ✓ 951.44
+50				5.3	949.0
90				4.5	49.8
+50				3.0	51.3
91				3.0	51.3
+50				3.4	50.9
92				4.3	50.0
+50				3.8	50.5
93				2.5	51.8
T.P.	12.31	965.75 ✓	0.86		953.44 ✓
+50				10.1	55.7
94				6.7	59.1
+50				3.4	62.4
95				1.2	64.6
T.P.	11.69	976.79 ✓	0.65		965.10 ✓
+50				9.8	67.0
96				6.3	70.5
+60				0.9	75.9
T.P.	6.67	982.75 ✓	0.71		976.08 ✓
97				5.3	77.5
+50				3.8	79.0

Spike is 12" Out N.W. of Mont. Int. Linwood
Sta. 89 + 90.5

		Σ		
Sta	+ H.I.	-	Red	Elev
	982.75			
98			2.7	80.1
+50			1.4	981.4
99			1.8	81.0
+50			2.9	79.9
100			4.7	78.1
+50			7.4	75.4
101			11.4	71.4
+50			13.4	69.4
102			13.5	69.3
+50			12.9	69.9
103			11.5	71.3
+50			8.8	74.0
104			6.5	76.3
+50			5.7	77.1
T.F.	12.21	989.32	5.64	977.11
105			11.4	77.9
B.M.			4.73	984.59
+50			8.5	80.8
106			3.8	85.5
+50			1.2	88.1
T.F.	4.14	992.53	0.93	988.39
107			3.0	89.5
+50			2.7	89.8
108			2.7	89.8
+50			3.6	88.9
109			4.7	87.8

Aug. 14 - 30

spike in 12" W.D. 55' RT Sta 105 + 10

Sta.	+	H.I.	-	Red	Elev
		992.53			
+50				7.3	85.2
110				9.3	83.2
+50				8.8	83.7
111				6.9	85.6
+50				2.7	89.8
T.P.	5.25	996.42	1.36		991.17
112				4.2	92.2
+50				2.8	93.6
113				2.1	94.3
+50				2.8	93.6
114				5.3	91.1
+50				7.2	89.2
115				8.5	87.9
B.M.			8.68		987.74
+50				10.3	86.1
116				11.3	85.1
+50				11.2	85.2
117				11.2	85.2
+50				11.3	85.1
T.P.	12.34	997.31	11.45		984.97
118				12.0	85.3
+50				10.8	86.5
119				10.5	86.8
+50				9.7	87.6
120				7.0	90.3
+50				4.6	92.7

Aug 14-30 (Remarks) Hot.

South edge of Mont Sta. 115+139

Sta.	+	Ht.	-	Rod	Elev
121		997.31 ✓		3.6	93.7
+50				3.3	94.0
122				4.0	93.3
+50				5.6	91.7
123				7.0	90.3
+50				9.3	88.0
124				11.7	85.6
T.P.	0.56	986.30 ✓	11.57		985.74 ✓
+50				2.1	84.2 ✓
125				3.2	83.1
+50				4.9	81.4
126				7.7	78.6
+50				10.9	75.4
T.P.	0.43	975.14 ✓	11.59		974.71 ✓
127				2.5	72.6
+50				5.7	69.4
128				8.2	66.9
+25				8.9	66.2 ✓
+50				9.8	65.3
+72 ¹⁵	Δ	Lt.		10.6	64.5
T.P.	1.39	966.13 ✓	10.40		964.74 ✓
B.M.			1.73		964.40 ✓
129				2.6	63.5
+50				5.7	60.4
130				7.0	59.1
+50				8.9	57.2
131				11.6	54.5

3 pike in 15" Oak 30" Lt. 29 + 10

Sta	+	H.I.	-	Red	Elev.
		966.13			
T.P.	1.17	955.48	11.82		954.31
131+50				4.7	50.8
132				11.0	44.5
T.P.	0.19	943.40	12.27		943.21
+50				5.6	37.8
T.P.	0.31	931.35	12.36		931.04
133				1.4	30.0
+50				9.8	21.6
T.P.	0.24	919.36	12.23		919.12
134				6.2	13.2
+35				9.0	10.4
T.P.	0.37	909.31	10.42		908.94
+60				4.0	05.3
135				6.8	902.5
+50				11.3	98.0
T.P.	0.46	897.29	12.48		896.83
136				2.3	95.0
+50				5.2	92.1
137				7.3	90.0
+50				8.7	88.6
138				10.8	86.5
T.P.	6.08	892.74	10.63		886.66
+33				6.9	85.8
+40		8 Ditch		10.6	82.1
+48				6.3	86.4
+70				5.2	87.5

Top Ditch
& Ditch
Top "

Sta.	+	H.I.	-	Rod	Elev
		892.74			
139				3.5	89.2
+50				0.3	92.4
T.P.	1.32	893.84	0.22		892.52
140				0.7	93.1
+50				2.1	91.7
141				5.9	87.9
+15				8.0	85.8
+50				9.4	84.4
142				10.3	83.5
+50				11.0	82.8
143				11.5	82.3
+25				10.8	85.0
+50				8.0	85.8
144				4.2	89.6
T.P.	10.56	903.69	0.71		893.13
+50				8.9	94.8
145				4.3	899.4
+30				2.0	901.7
T.P.	11.34	914.44	0.59		903.10
+50				7.8	06.6
+84		(Edge Cooley)		1.8	17.6
146				3.6	10.8
T.P.	5.94	920.19	0.19		914.25
+20		£ Cooley		7.4	12.8
+29		Edge		4.0	16.2
+50				2.8	17.4

Aug. 14-30

	Skoglund
	Weber
	Bell
	Stevens

Sta.	+	H.I.	-	Red.	Elev
		920.19 [✓]			
147				2.0	18.2
+50				2.0	18.2 [✓]
148				2.0	18.2
+50				2.8	17.4
149				6.7	13.5
+50				11.3	08.9
T.P.	0.72	909.04 [✓]	11.87		908.32 [✓]
150				6.7	02.3
+50				8.5	00.5 [✓]
B.M.			9.10		899.94 [✓]
151				7.2	01.8
+50				5.7	03.3
+78				5.1	03.9
152				3.1	05.9 [✓]
T.P.	10.41	919.09 [✓]	0.36		908.68 [✓]
+50				8.6	10.5
153				6.5	12.6
+50				6.5	12.6
154				3.5	15.6 [✓]
T.P.	11.90	930.52 [✓]	0.47		918.62 [✓]
+50				10.0	20.5
155				5.0	25.5
+28				3.0	27.5 [✓]
+60				3.4	27.1
156				1.7	28.8
+31				1.3	29.2

Top Rock 20' Lt 150 + 45

Sta	+	H.I.	-	Red	Elev.
		930.52			
157				4.5	26.0
+65				3.8	26.7
158				4.9	25.6
+50				9.4	21.1
T.F.	9.81	930.39	9.94		920.58
159				14.0	16.4
+50				14.5	15.9
160				13.2	17.2
+50				13.5	16.9
161				13.7	16.7
+40				10.8	19.6
162				0.8	29.6
+50				3.9	26.5
163				5.8	24.6
+40				7.6	22.8
164				3.4	27.0
+20				2.8	27.6
+50				6.0	24.4
165				10.1	20.2
T.F.	3.46	924.40	9.45		920.94
+50				5.5	18.9
166				8.7	15.7
+20				10.0	14.4
+50				10.0	14.4
167				11.0	13.4
B.M.	2.52	926.36	0.56		923.84 48M

Aug. 14-30.

Elev. Pot Hole

Spike in 16" Oak 237' ht. 166+20

Sta.	+	H.I.	-	Pod	Elev.
		926.36			
+415	Δ Lt.			11.0	15.4
+71				8.0	18.4
168				7.7	18.7
+50				6.7	19.7
169				5.6	20.8
+50				5.0	21.4
170				5.7	20.7
+50				6.3	20.1
171				6.6	19.8
+50				6.8	19.6
172				6.5	19.9
+50				7.0	19.4
T.P.	0.47	920.55	6.28		920.08
173				4.3	16.3
+50				7.6	13.0
174				10.9	09.7
T.P.	0.57	908.79	12.33		908.22
+50				2.2	06.6
+74				2.2	06.6
+78				3.8	05.0
175				5.7	03.1
+50				8.7	900.1
176				12.6	896.2
T.P.	0.25	897.18	11.86		896.93
+50				3.5	93.7
177				5.3	91.4

Aug. 15-30 (Fair.)

Keller.

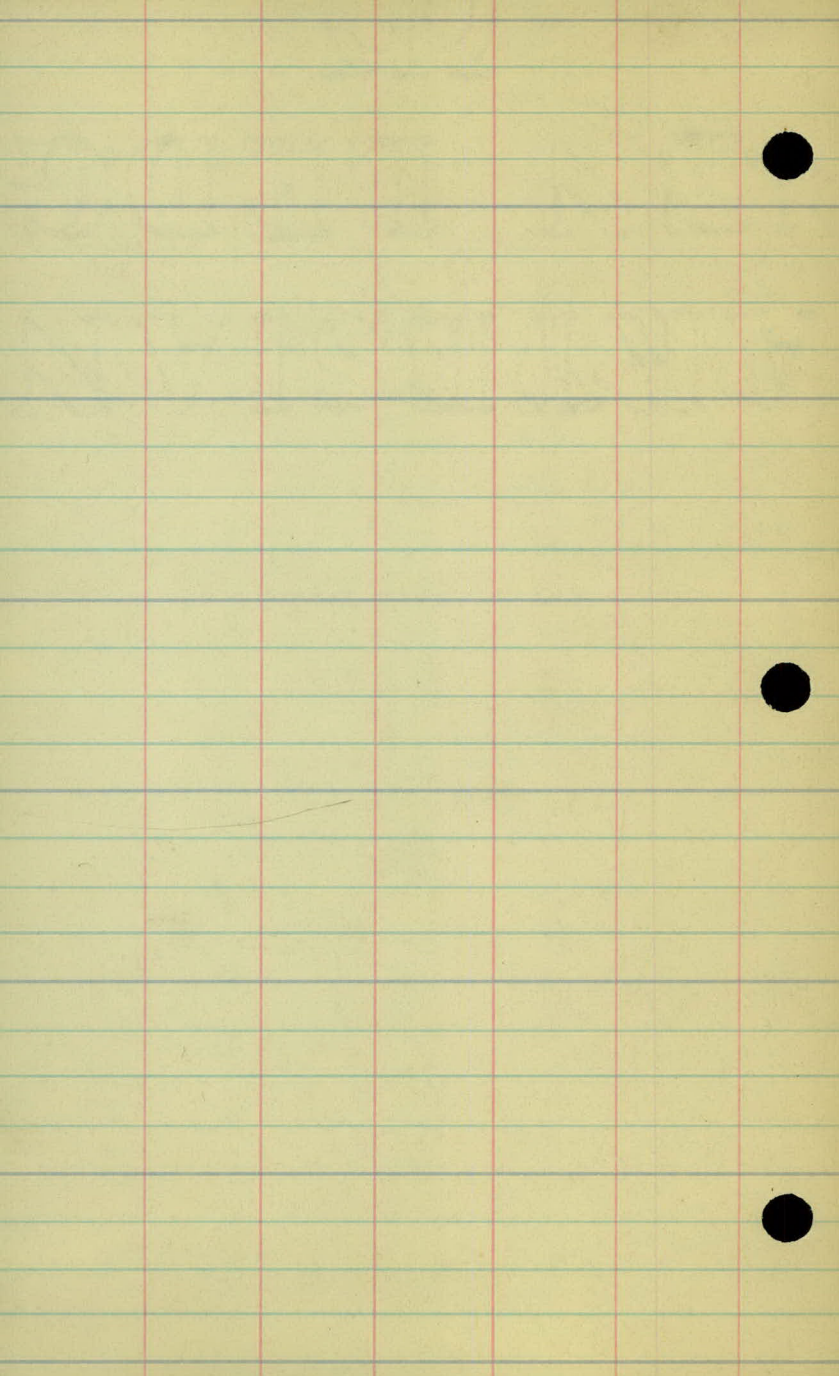
8:30 A.M. = (\$10,000 Golf. opening)

Top of Hub. 172 + 27.2 £

Sta.	+	H.I.	-	Rod.	Elev.
		897.78 ¹			
+50				7.7	89.5
178				8.7	88.5
+50				9.1	88.1
179				9.4	87.8
+50				9.4	87.8
180				8.7	88.5
+19				9.4	87.8
+58				4.6	92.6
181				4.2	93.0
182				2.8	94.4
B.M.			5.54		891.64 ¹

(Toe Shoulder.)

Spike in PP. 150' Rt. 177+06



~~E~~ Elevations
"B" Line

Sta.	+	Ht.	-	Rd.	Elev.
B.M.	2.13	855.81			853.68
T.P.	9.45	861.38	3.88		851.93
14+15.2				8.5	
+50				6.8	
15				9.7	
+30				9.8	
+73				13.8	
16				10.0	
+15				8.1	
+50				6.8	
17				7.4	
+40				6.0	
18				1.4	
T.P.	4.82	865.88	0.32		861.06
+50				3.3	
+75				3.3	
19				5.8	
+34	Hub.			12.2	
T.P.	1.35	855.12	12.11		853.77
+50				6.1	
T.P.	0.55	843.70	11.97		843.15
20				12.5	
T.P.	0.30	831.80	12.20		831.50
T.P.	6.54	826.55	11.79		820.01
+34				10.8	
+50				12.3	
+70				8.3	

Aug. 15-30. P.M.

Spike in 20" Oak 55' RT Sta 19+80 A. line.

Δ Pt. on "A" line.

Top Hub. 19+33.7

Bottom (Revine)

Sta.	+	H.I.	-	Red	Elev
		826.55			
T.P.	12.10	838.19	0.46		826.09
21				10.1	
T.P.	9.66	847.38	0.47		837.72
+50				4.8	
+60				3.5	
+74				3.7	
22+00				5.6	
+05				9.7	
+12				11.0	
+21				10.52	
+30				10.9	
+50				3.3	
B.M.	11.72	854.22	4.88		842.50
T.P.	12.42	860.32	6.32		847.90
B.M.			5.35		854.97 854.95
23				12.9	
+50				7.1	
T.P.	6.16	866.22	0.26		860.06
24				4.2	
+22				1.0	
+36	Δ F.			0.6	
25				5.6	
T.P.	1.04	855.69	11.57		854.65
+74				9.3	
26				11.0	
+50				11.3	

Aug. 15-30 P.M.

to Pave.

spike in P.P. 50' Rt. 22 + 40 (Carver Rd.)

spike in P.P. Int. E. Ave. + Carver.

Sta.	+	H.I.	-	Red.	Elev.
		855.69			
27				8.5	
+50				3.3	
28				3.6	
+28				4.1	
+38				5.7	
+46				3.3	
T.P.	8.53	860.28	3.94		851.75
+85				12.0	
29				10.7	
+50				4.8	
+66				2.2	
T.P.	11.81	871.88	0.21		860.07
30				2.0	
T.P.	11.39	881.11	2.16		869.72
T.P.	10.72	891.56	0.27		880.84
+60				9.0	
31				3.4	
T.P.	6.84	897.93	0.47		891.09
+50				2.8	
+75				1.4	
32				3.0	
+50				8.8	
T.P.	6.12	891.93	12.12		885.81
+90				6.7	
33				5.0	
+50				2.5	

(Remarks.)

Spoke into Tr. 10' L + 30 + 60 4 P.M.

Aug. 16-30, 10 P.M.

Hub.

Bottom Revine

Sta	+	H.I.	-	Red	Elev
		891.93			
34				6.2	
+50				9.4	
+85				8.2	
35				6.8	
+15				6.6	
+50				0.0	
T.P.	11.40	903.04	0.29		891.64
T.P.	8.06	910.83	0.27		902.77
36				5.6	
+20				3.0	
+50				4.7	
37				8.1	
B.M.			(6.98)		903.85
+32				10.6	
+50				10.3	
38				6.7	
+50				4.0	
39				1.1	
T.P.	2.98	912.72	1.09		909.74
+50				3.4	
40				5.2	
+50				9.7	
41				7.8	
+40				6.6	
T.P.	2.27	908.64	6.35		906.31
+75				9.0	

Spike in 18" Oak 60 Lt. 36 + 88.

Sta.	+	H.I.	-	Red.	Elev.
		908.64			
42				11.1	
+45				14.5	
43				13.6	
+50				10.3	
44				6.3	
+15	Δ B.			5.1	
+50				4.0	
+75				6.1	
T.P.	0.34	897.76	11.22		897.42
45				0.8	
T.P.	0.60	887.02	11.34		886.42
+50				3.0	
46				4.2	
B.M.	10.47	890.91	6.58		880.44
+50				6.2	
47				3.5	
+50				2.8	
48				5.2	
+50				10.0	
49				11.6	
+50				11.8	
50				11.7	
+50				10.5	
T.P.	5.47	886.02	10.36		880.55
51				6.4	
+50				5.3	

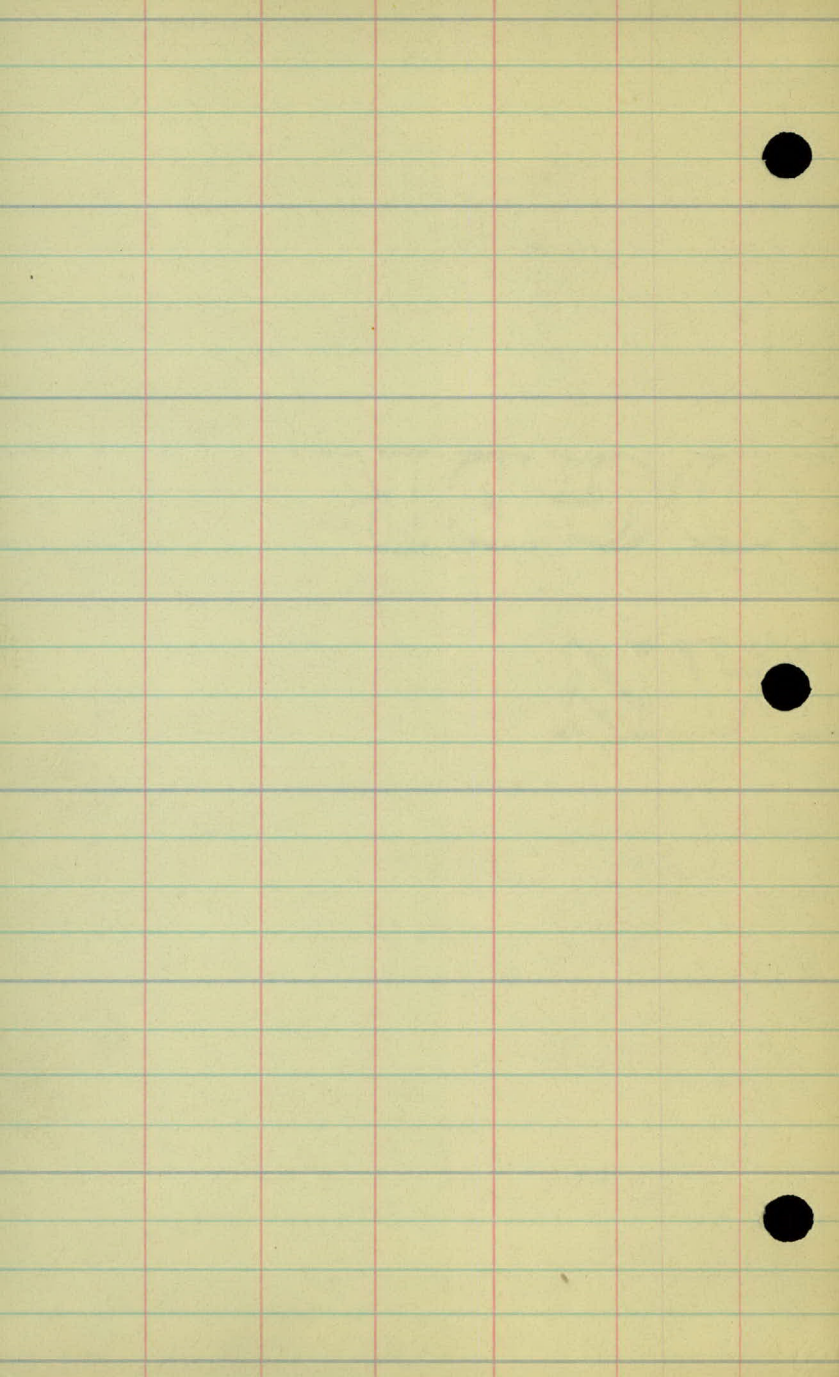
(Hub)

(Red)
Top Rock 30' Lt 45+90
Aug 18-31

Station	+	H.I.	-	Rd. R.	Elev.
		886.02			
52				5.9	
+50				5.1	
53				4.4	
+40				4.8	
+80				1.7	
54				0.8	
+25				0.6	
+50				3.2	
55				8.8	
+50				9.8	
56				9.1	
+45				8.2	
57				1.0	
T.P.	1223	897.45	0.80		885.22
T.P.	410	900.74	0.81		896.64
+50				2.4	
+62				1.1	
+80				2.6	
58				7.2	
+186	INT.	A Line.		12.4	
T.P.	7.01	905.51	2.24		898.50
B.M.			3.62		901.89

Aug 18-30

S.W. cor. Mont Sta. 49+553 on A. Line



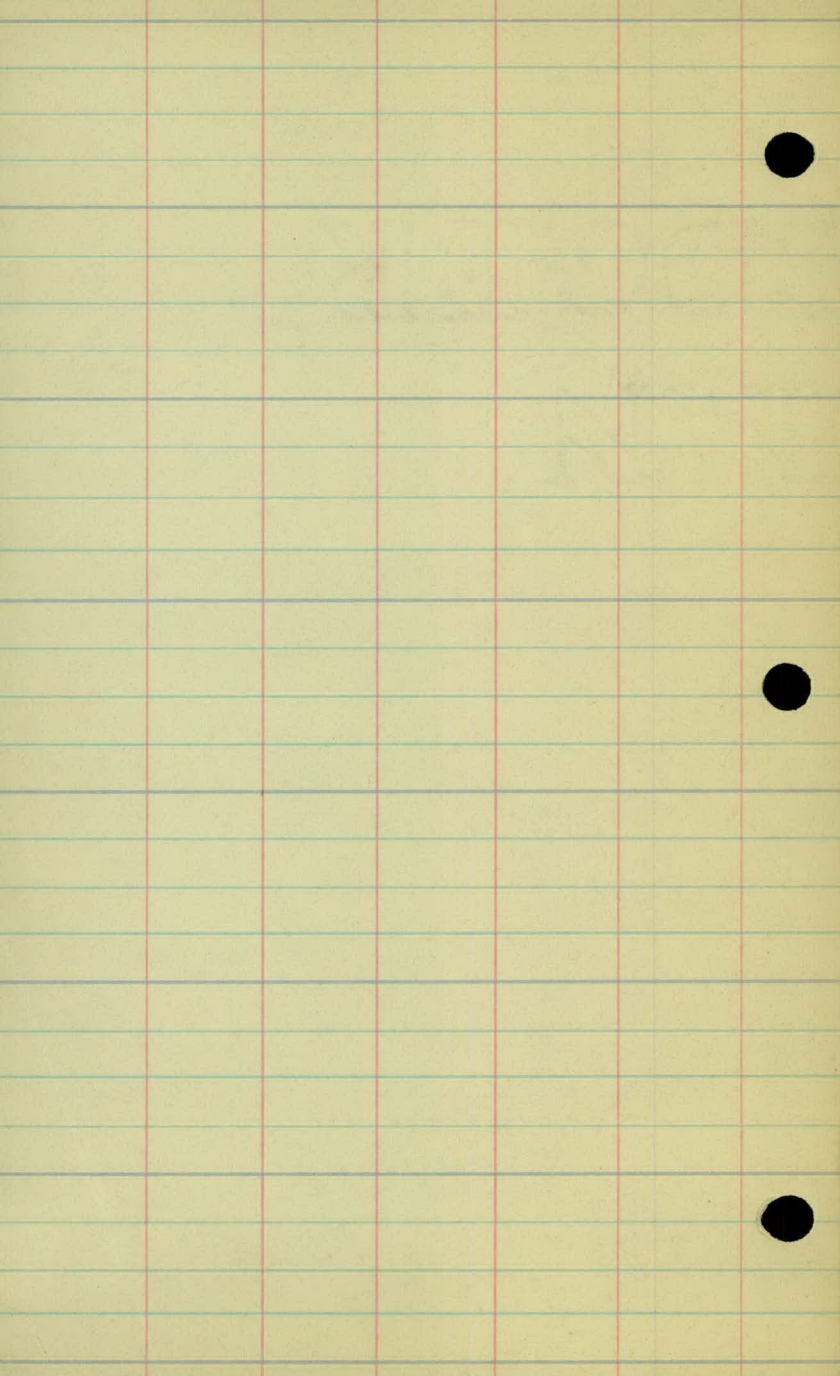
~~E~~ Elevations
"C" Line.

Sta.	+	H.I.	-	Red.	Elev
	11.72	854.22			842.50
T.P.	11.68	865.52	0.38		853.84
T.P.	2.39	867.12	0.79		864.73
24+36.2	P.I.			1.5	
+50				2.9	
25				10.0	
+10				11.7	
T.P.	0.72	855.86	11.98		855.14
+40				7.5	
+80				8.1	
26				9.8	
+50				9.7	
27				5.8	
+50				5.5	
28				3.7	
T.P.	10.98	865.78	1.06		854.80
+50				9.4	
29				0.4	
T.P.	11.11	876.62	0.27		865.51
+30				6.5	
30				1.4	
T.P.	10.66	886.22	1.06		875.56
+50				6.6	
T.P.	11.12	896.56	0.78		885.44
31				9.0	
+15				7.5	
+50				6.5	

Aug. 18-30 (Forever Fair.)

Sta.	+	H.I.	-	Rd	Elev.
		896.56			
32				6.3	
+50				9.0	
33				7.5	
+50				4.7	
34				0.4	96.2
T.P.	1229	908.62	0.23		896.33
+50				4.5	
T.P.	1156	919.79	0.39		908.23
35				1.8	
T.P.	1139	930.62	0.56		919.23
+50				3.6	
T.P.	735	937.05	0.92		929.70
36				5.2	
+37				3.2	
BM			488		932.17 932.11

S.F. Cor. Mont. 36 + 513 "C" Line



Check Levels
Upper Afton To Lower Afton.

Sta.	+	H.I.	-	Elev.
B.M.	11.91	903.55		891.64
	11.82	914.89	0.48	903.07
	11.36	925.80	0.45	914.44
	5.88	927.44	4.24	921.56
			3.58	923.86 923.84
	1.96	928.50	0.90	926.54
	2.40	930.42	0.48	928.02
	0.57	918.82	12.17	918.25
	2.52	909.12	12.22	906.60
			9.17	899.95 899.94
	7.03	915.88	0.27	908.85
	0.95	904.63	12.20	903.68
	4.25	896.65	12.23	892.40
	11.72	907.16	1.21	895.44
	11.10	917.43	0.83	906.33
	12.43	929.54	0.32	917.11
	12.10	941.00	0.64	928.90
	12.48	953.25	0.23	940.77
	12.37	964.74	0.88	952.37

B.M.

132.85
60.07
 72.78 ✓

0.32
 600.7

964.42
 91.64
72.78 ✓

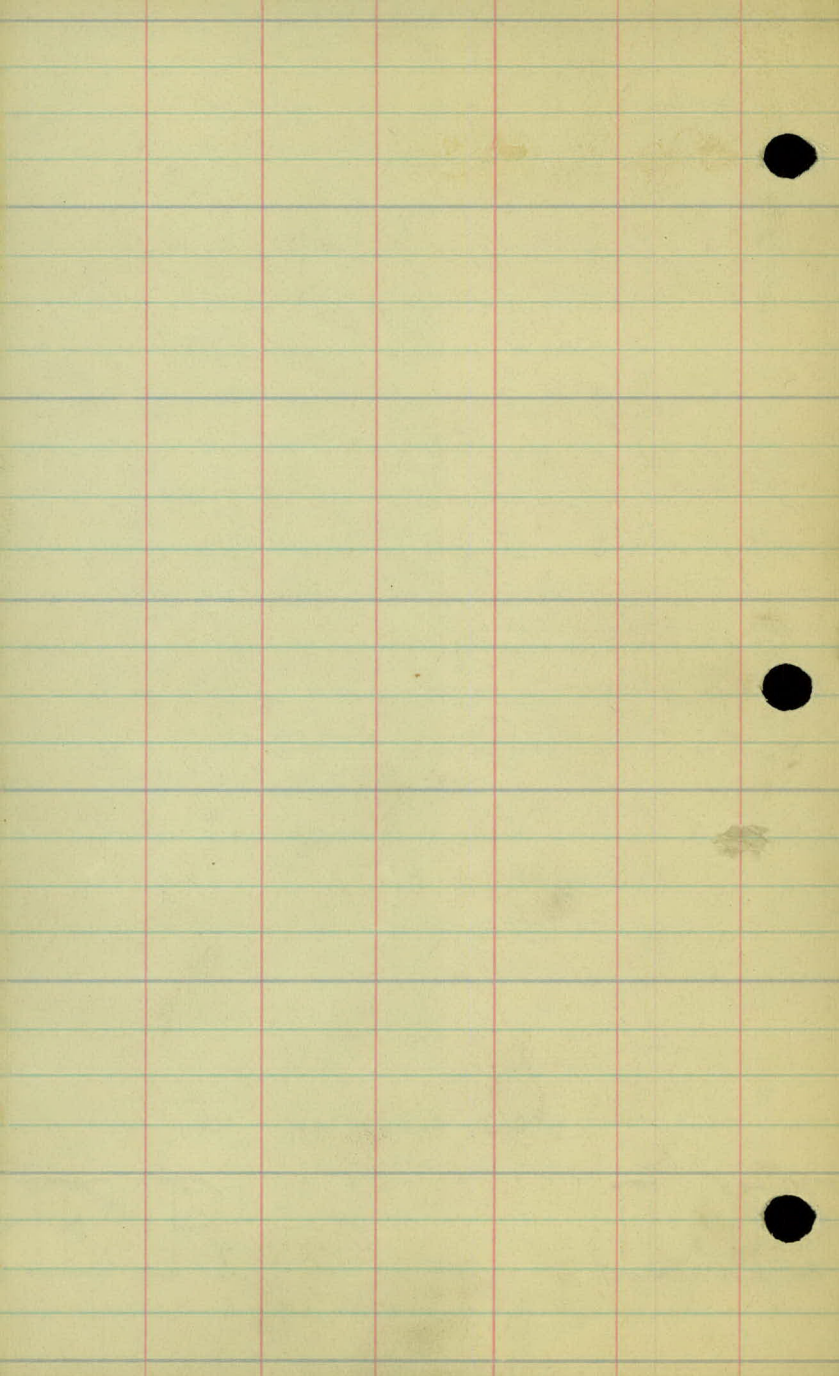
Aug. 19-30 11: A.M.

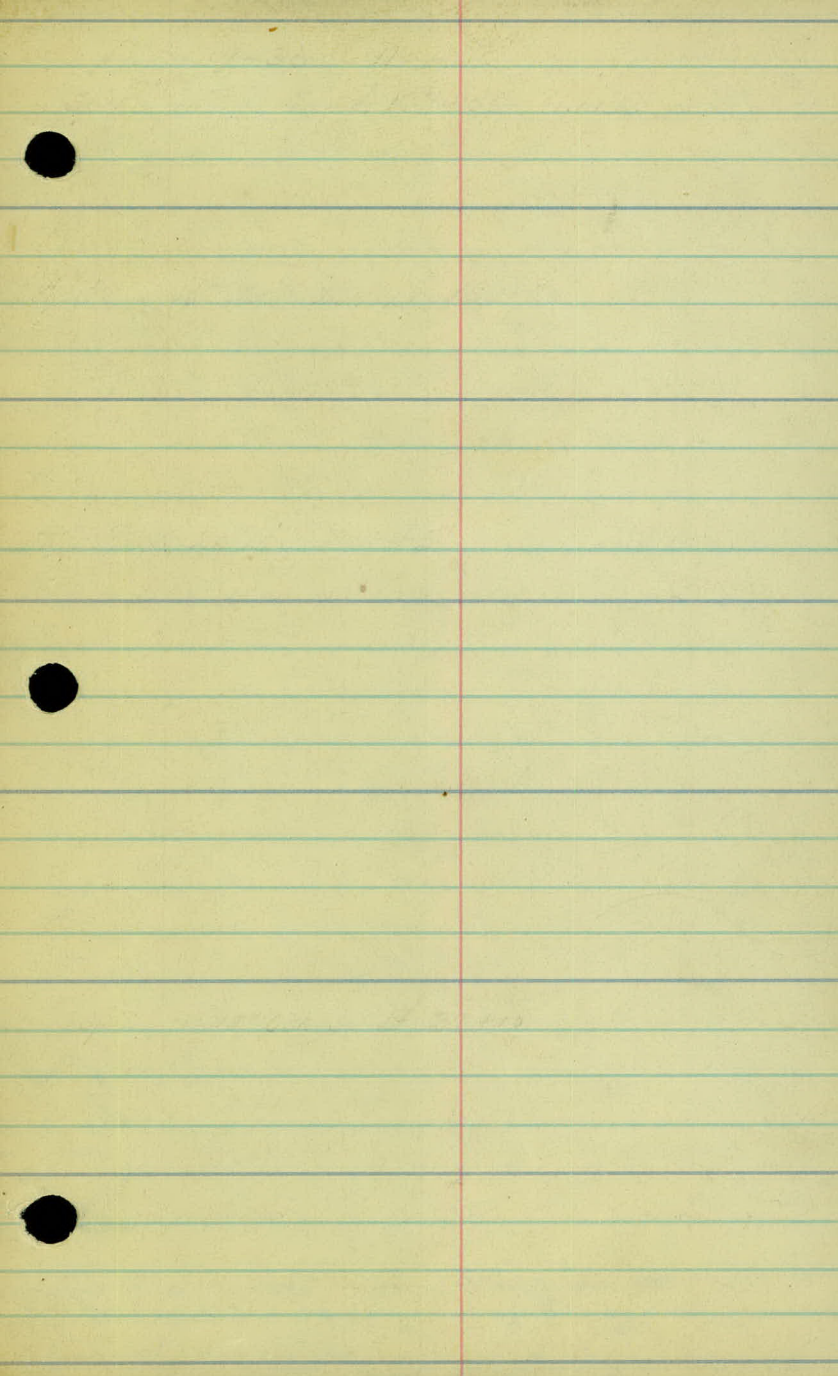
Spike in P.P. 150' Rt 177+06 ("A" Line)

Spike in 16" Oak 237' Lt 166+20

Top of Rock 20' Lt 150+45 ("A" Line)

Spike in 15" Oak 30' Lt. 29+10 ("A" Line)





Sta.	+	H.I.	-	Elev.	
B.M.	5.89	957.30		951.41	(951.41)
T.P.	12.09	968.29	1.10	956.20	
" "	11.64	979.73	0.20	968.09	
" "	3.85	983.08	0.50	979.23	
" "	10.05	985.01	8.12	974.86	
B.M.	8.87	993.48	0.40	984.61	984.59
T.P.	7.42	995.35	5.55	987.93	
B.M.	2.41	990.22	7.60	987.75	987.74
T.P.	9.94	997.45	2.65	987.51	
" "	0.29	985.38	12.36	985.09	
" "	0.46	974.20	11.64	973.74	
" "	2.31	967.47	9.04	965.16	
B.M.	0.60	965.01	3.06	964.41	964.40
T.P.	0.80	954.52	11.29	953.72	
" "	0.00	942.66	11.91	942.61	
" "	0.36	930.74	12.23	930.38	
" "	0.16	918.50	12.40	918.34	
" "	0.24	909.17	9.57	908.93	
" "	0.44	898.68	10.93	898.24	
B.M.	4.47	901.53	1.62	897.06	
" "	11.80	912.88	0.45	901.08	
" "	2.23	914.94	0.17	912.71	
" "	2.72	907.04	10.62	904.32	
			7.10	899.94	899.94

Aug. 19-30 (1930)

Spike in 10" Oak Linwood + East Ave.

Spike in 12" W.O. 55' Rt. Sta. 105+10

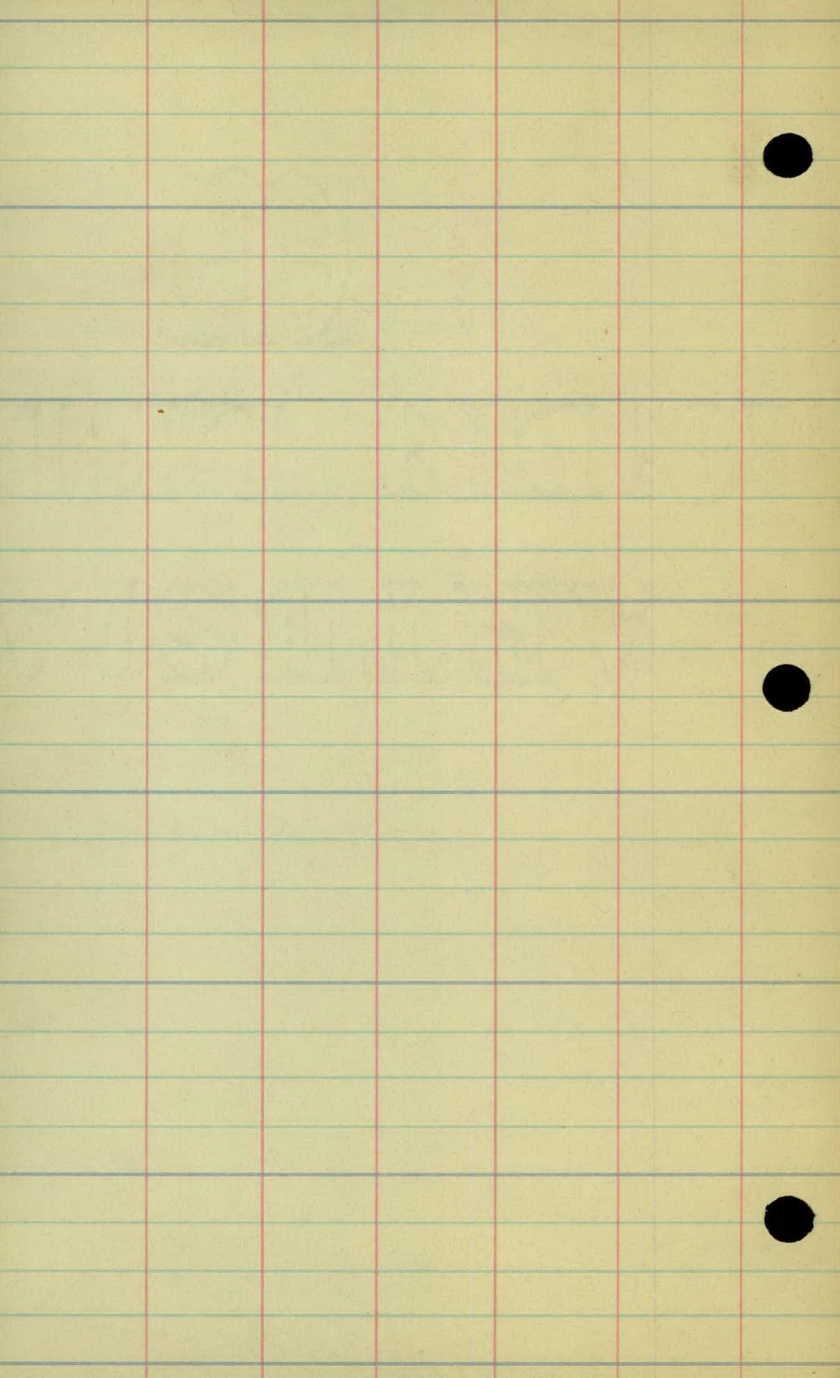
Aug-21-30

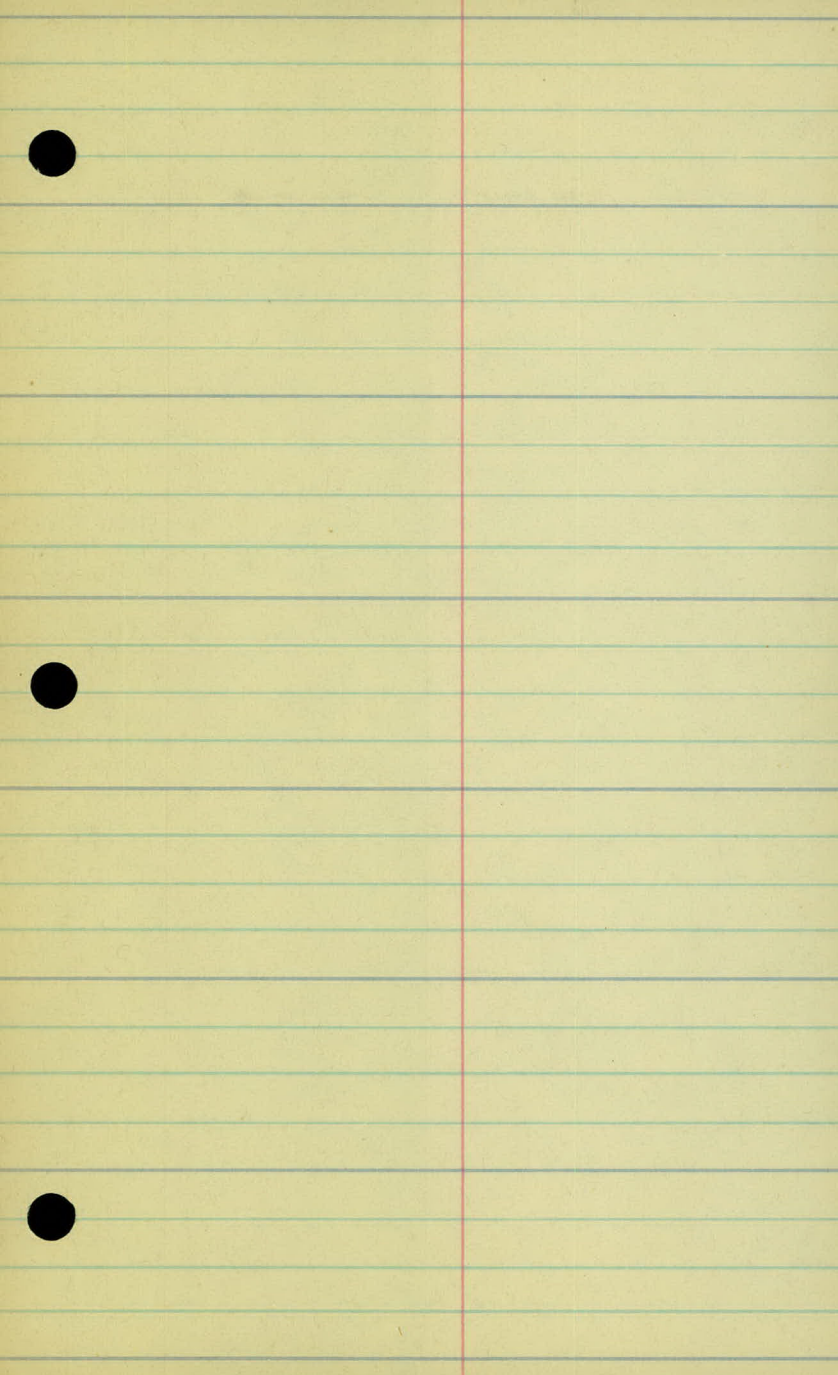
So. Edge of Mont. 115+13 90

Spike in 15" Oak 30' Lt. 129+10

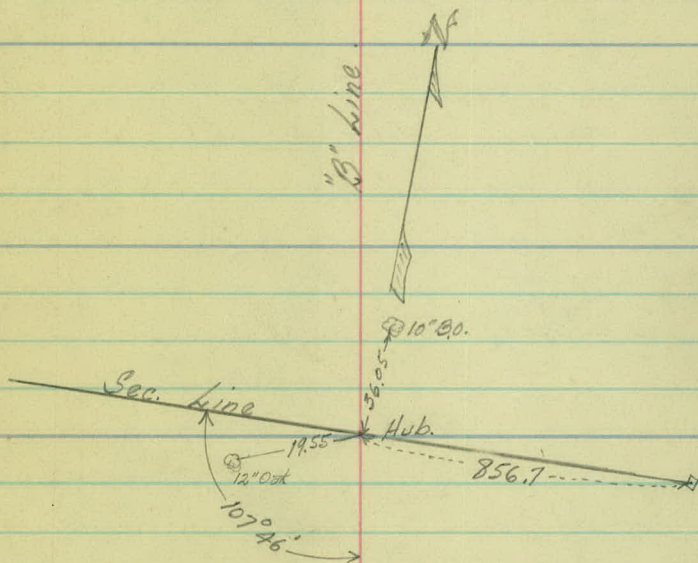
Spike in 12" Oak 125' Rt. Sta. 142+50

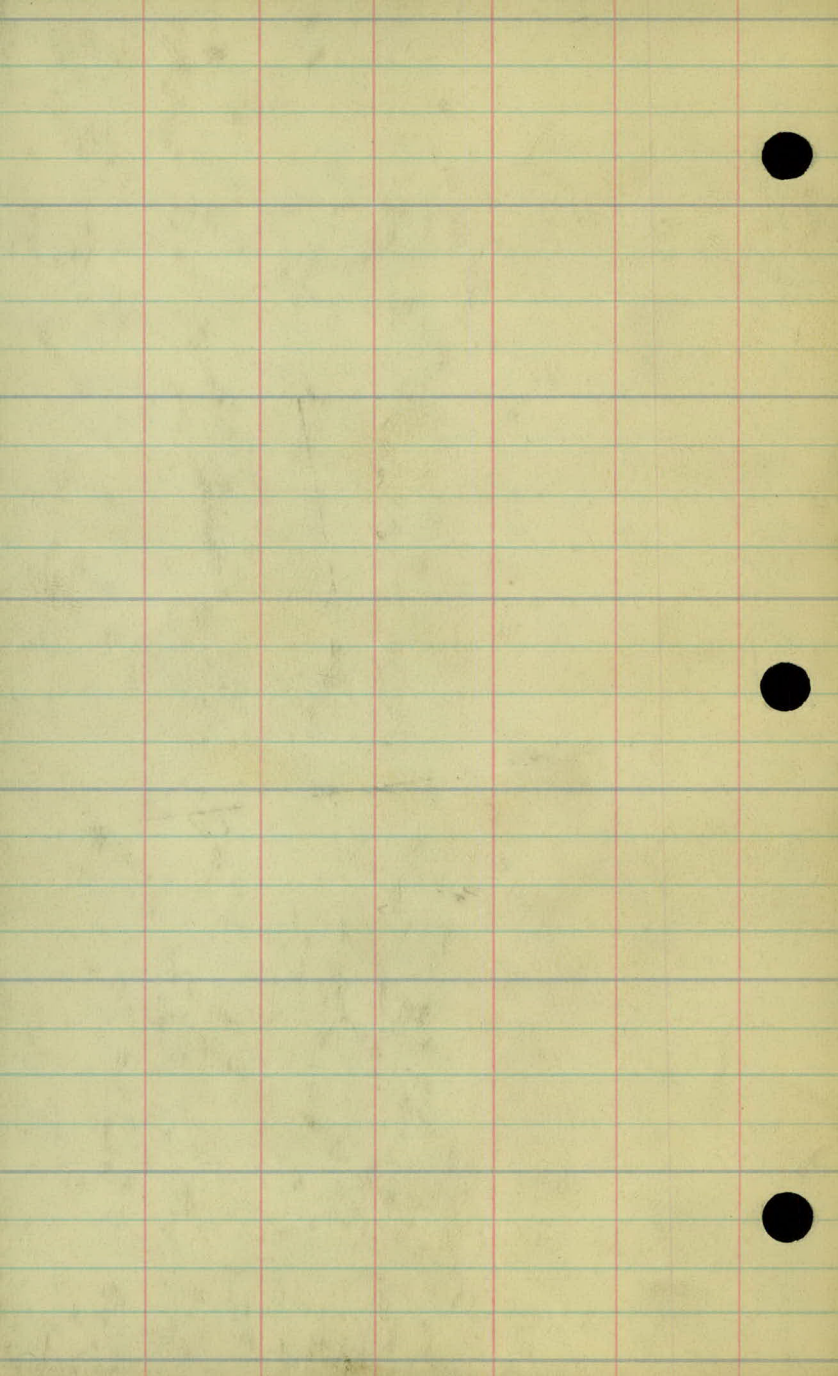
Top Rock 20' Lt. 150+45





35+97.45 Sec. Tie on "B" Line.





"B" LINE.

ALIGNMENT

STA POINT Δ LT Δ RT

21+71.1

19+33.2 P.O.T.

18+73.3 P.O.T.

14+15.2 P.T. 40°-39'

13+63.70 P.O.T.

N 01° 35' W

N 39° 04' E

8-12-30

B-LINE

A-LINE

STA. POINT. ΔL^+ ΔR^+

57+61.⁸ P.O.T.

N-51°-53'E

44+15.¹ P.I. 69°-17'

x

39+24.⁷ P.O.T.

36+34.² P.O.T.

N 17°-24' W

31+75.² P.O.T.

24+36° P.I. 15° 49'

N 01° 35' W. x

8-12-30

B-LINE

STA. POINT A.H. A.R.

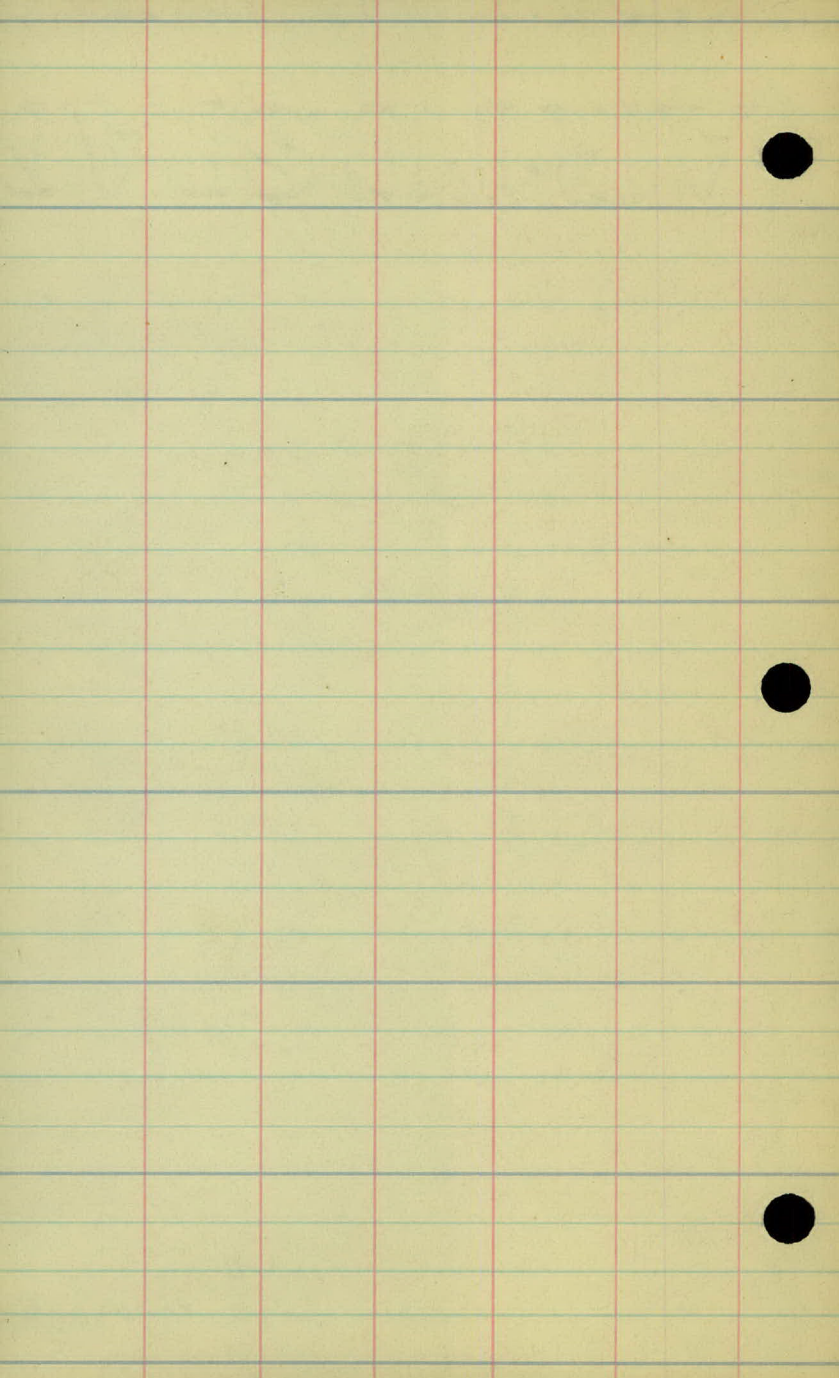
N 00° 08' E
N 00° 02'

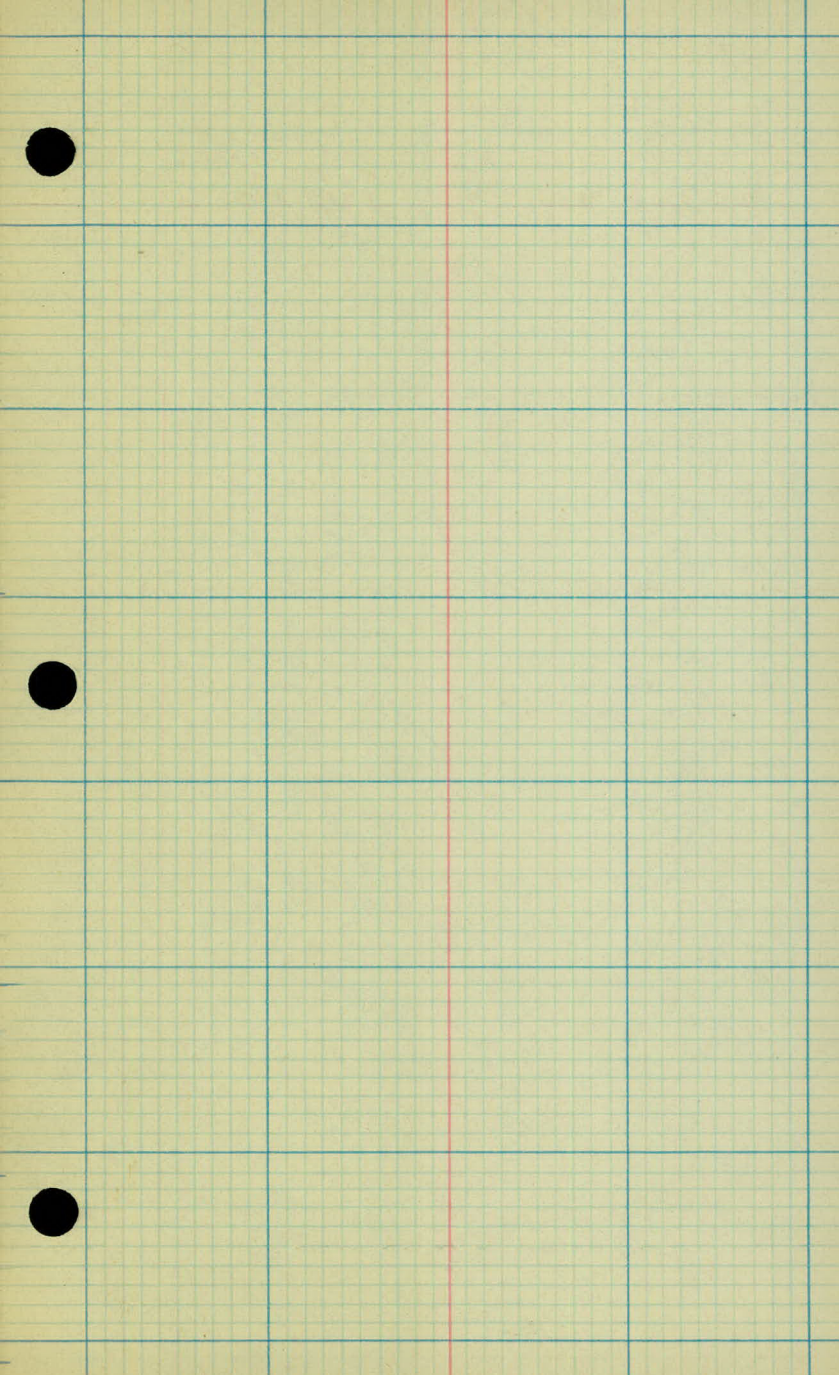
55+36.3 P.O.T. H. LINE

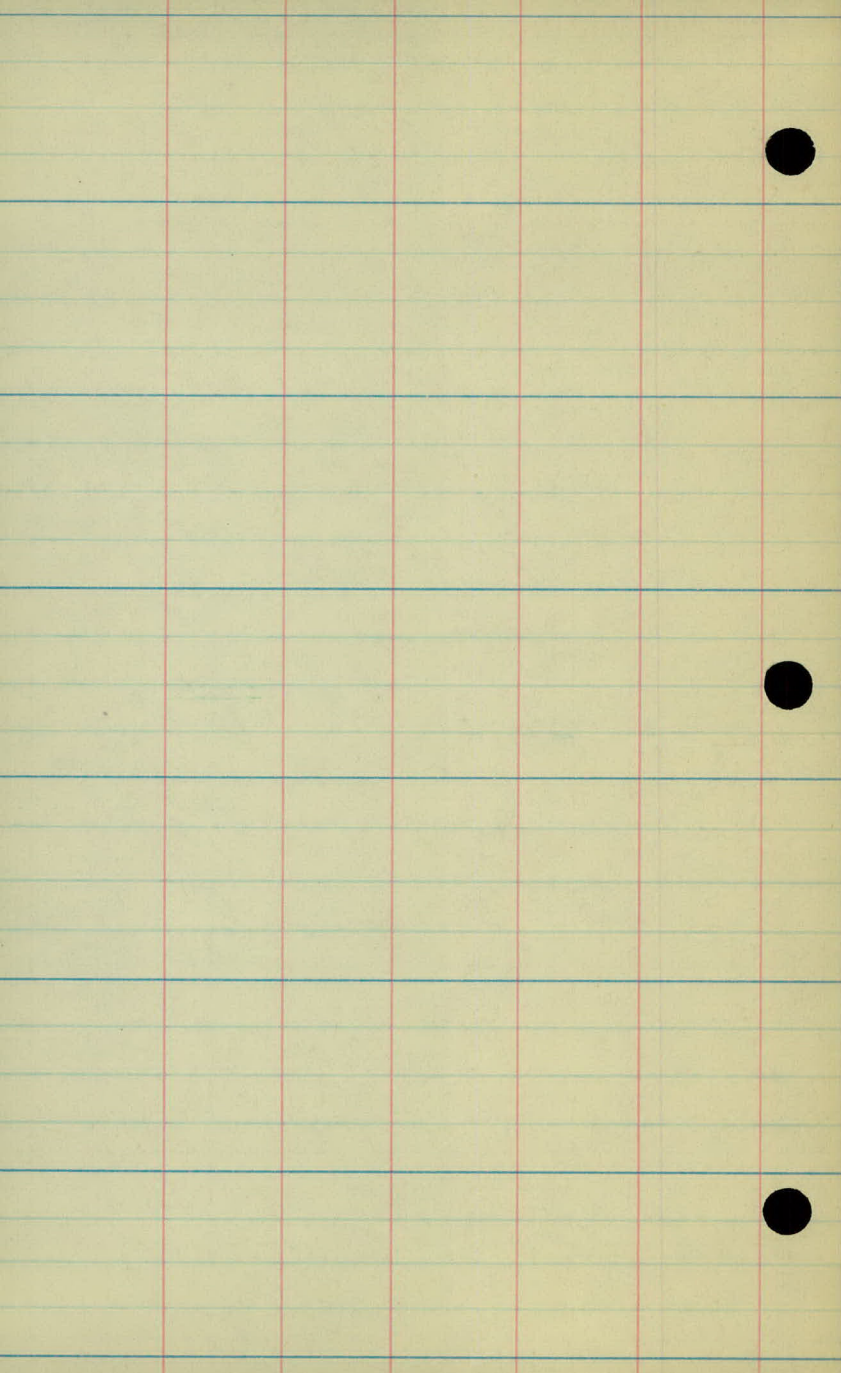
58+18.6 P.I. $51^{\circ} 48' = 52+98.8$ H. LINE

N 51° 53' E

8-12-30





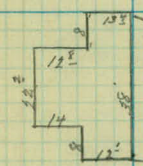
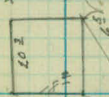
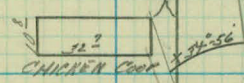


A LINE.

E

PASTURE

14+15⁰



2 STORY STUCCO HOUSE.

DOUBLE FRAME CAR.

17.5'

527'

519'

37°57'

20.3'

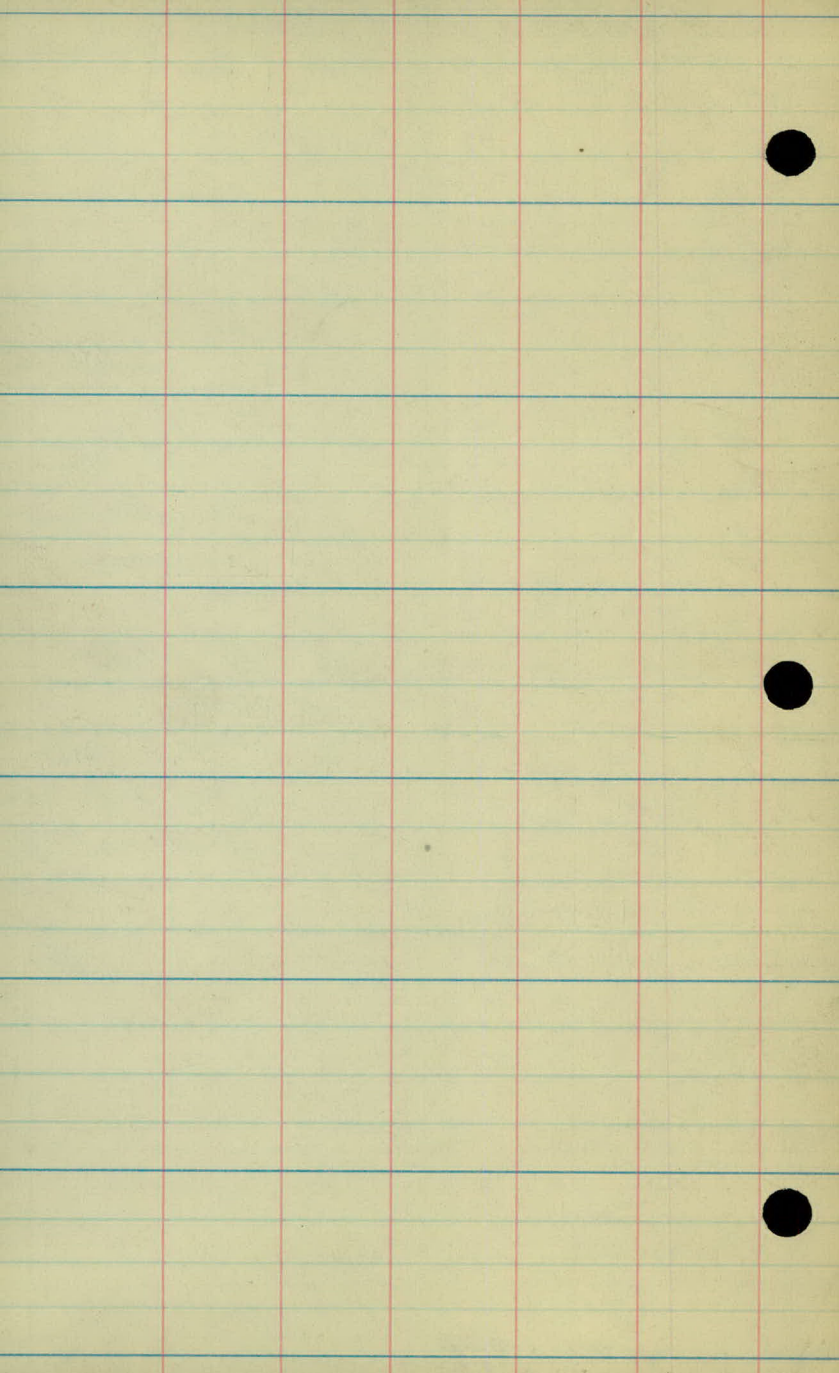
47°22'

52°47'

49°18'

56°04'

11175'



'B' LINE

ART. TOROS.

17

16

15

14

13

12

11

196 X. F.

WOODED
PASTURE.

PASTURE

50

50

50

128 X. F.

24

23

22

21

20

19

18

17

TOP OF BLUFF 286

8-13-30

CULTIVATED

170 TOP OF BLUFF 273

TOP OF BANK

191 X.F.

WOODS

TOP OF RAVINE

SCARB OAKS

145 RAVINE

WOODS

TOP OF RAVINE

SEMI TOP OF BLUFF

WOODS & SCARB OAKS

TOP OF BLUFF

29

28

27

26

25

24

23

TOP OF BLUFF 180

CULTIVATED

TOP OF BLUFF 175

TOP OF BLUFF 198

TOP OF BLUFF 229

CULTIVATED

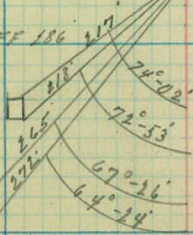
TOP OF BLUFF 275

TOP OF BLUFF 186

4 1/2 X 4 1/2
OUT HOUSE

SHED.

15.16



CULTIVATED

35

34

33

32

31

30

29

TOP OF BLUFF 154

TOP OF BLUFF 109

CULTIVATED

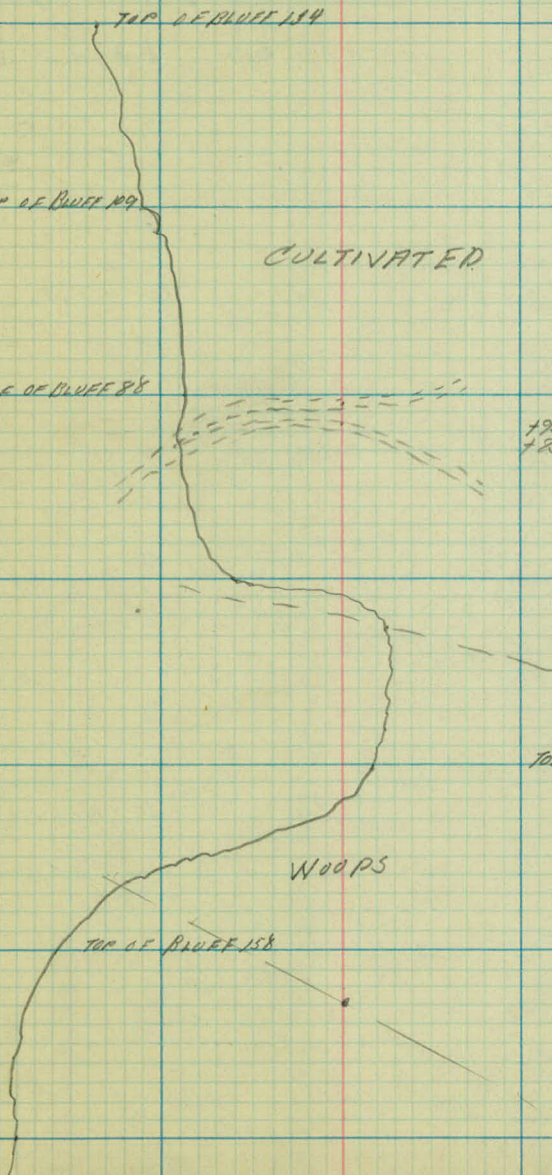
TOP OF BLUFF 88

+95 WASHOUT
+25 WASHOUT

TOP OF BLUFF 18

WOODS

TOP OF BLUFF 158



41

40

39

38

37

36

35

TOP OF BLUFF 215

SCRUB OAKS

TOP OF BLUFF 189

TOP OF BLUFF 189

WOODS

TOP OF BLUFF 193

TOP OF BLUFF 214

TOP OF BLUFF 176

406 X.F.
400 F. 19

CULTIVATED.

47

46

45

44

43

42

41

CULTIVATED.

ORCHARD.

P. 48

143 X.F.

CUT OVER LAND

TOP OF BLUFF 209

TOP OF BLUFF 178

PASTURE

53

52

51

50

49

48

47

CULTIVATED

170 X. F

F. 59

CULTIVATED

FARM TRAIL

CULTIVATED

59

58

57

56

55

54

53

CULTIVATED

