

PLANS



SURVEY

VADNAIS BLVD.

From Rice Str.

To Centerville Road

ROAD $\frac{1}{2}$ N^o 6

FILE N^o 10

PROJ. 26-01

Office of Ramsey Co. Engineer
ST. PAUL, MINN.

Date Filed 3-11-26

File No. " " "10"

Rd 6

VADNAIS BLVD.

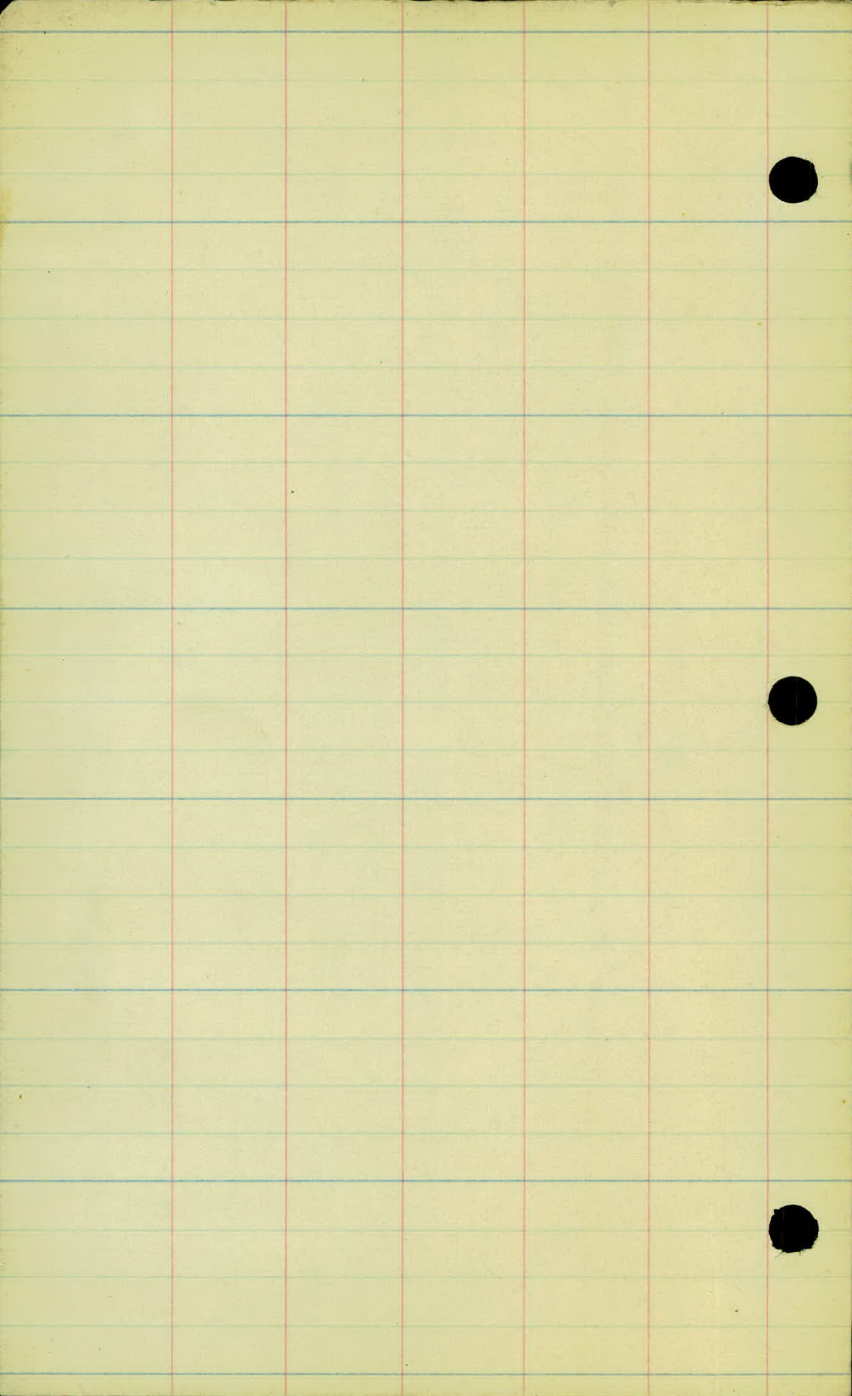
PROJ.

Rice str. to Centerville Road.

RE-LOCATION

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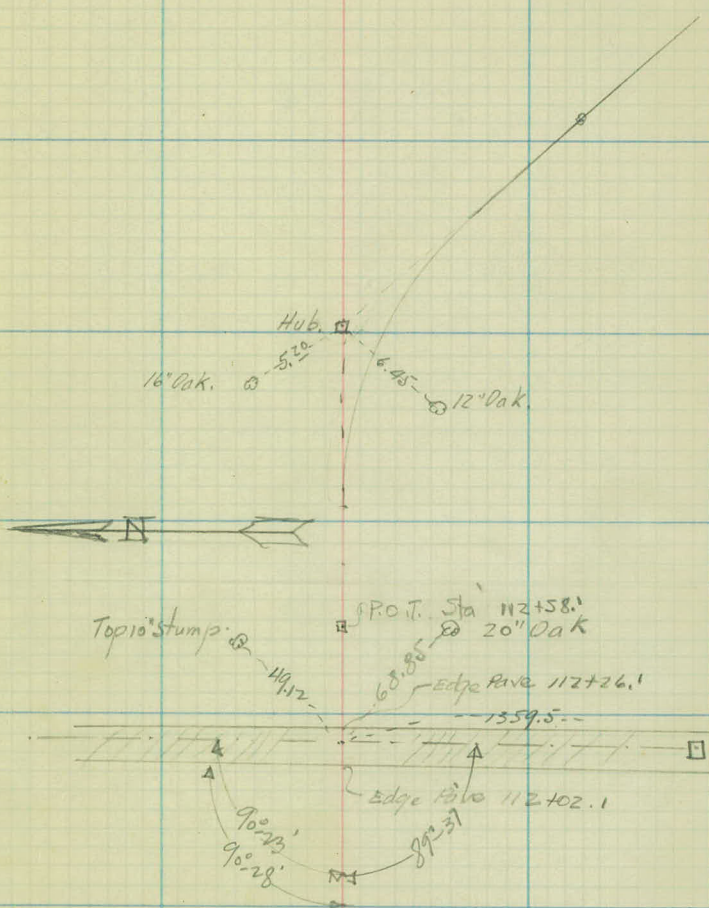
ALIGNMENT

Proj-26-01

Station	Point	Lt. & Rt.	Bear.
117+06.34	P.T. ✓	24°-35'	541°-00'E ✓
117		24°-12.2'	
+50		21°-12.2'	
116		18°-12.2'	12°-C.Rt.
+50		15°-12.2'	Δ 49°-10'
115		12°-12.2'	P.I. 115+15.45
+50		9°-12.2'	T. 218.83 ✓
114		6°-12.2'	L. 409.72 ✓
+50		3°-12.2'	R. 478.34 ✓
113		0°-12.2'	
112+96.62	P.C. ✓	0°-00'	

112+16.1 Sec. Line.
 112+14.1 P.O.T. & Ave.

N 89°-50'E.



W.A.C.
 A.L.P. Feb. 11, 1926
 H.C.
 H.B.

Station	Point	Lt. Δ Rt.	Bear.
129+16.65 ✓	P.T.	2°35'	N. 72°50' E. ✓
129		2°25'	2° C. Lt.
+50		1°55'	Δ 5°-10'
128		1°25'	P.I. 127+87.57
+50		0°55'	T. 129.25 ✓
127		0°25'	L. 258.33 ✓
126+58.32 ✓	P.C.	0°00'	R. 2864.93 ✓

123+87.86	P.T. ✓	30°-30'	N. 78°-00' E. ✓
123+50		27°51'	
123		24°-21'	14° C. Lt.
+50		20°-51'	Δ 61°-00'
122		17°-21'	P.I. 121+93.81
+50		13°-51'	T. 241.66 ✓
121		10°-21'	L. 435.71 ✓
+50		6°-51'	R. 410.28 ✓
120		3°21'	

119+52.15	P.C. ✓	0°00'	S. 41°-00' E. ✓
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0

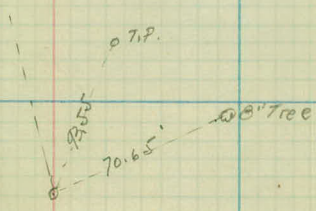
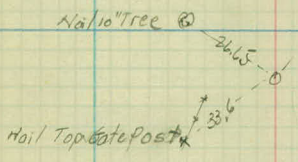
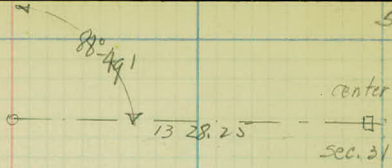
① R.R. Spike Edge Borrow Pit.

Station	Point	Lt.	Rt.	Bear.
141+89.7	P.O.T.			5.88°-16'E ✓
138+15.07	P.T. ✓		16°-45'	
138			15°-50.8'	12°-C.Rt.
+50			12°-50.8'	Δ 33°-30'
137			9°-50.8'	P.I. 136+79.87
+50			6°-50.8'	T. 143.97 ✓
136			3°-50.8'	L. 279.17 ✓
135+35.90	P.C. ✓		0°-00'	R. = 478.34 ✓

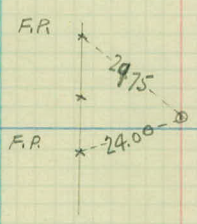
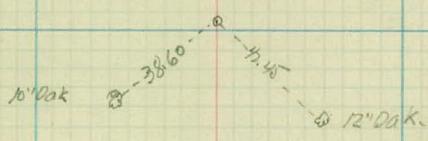
N 58°-14'E ✓

133+15.38	P.T. ✓	7°-18.2'		
133+00		6°-41.1'		8°-C.Lt.
+50		4°-41.1'		Δ 144.36'
132		2°-41.1'		P.I. 132+24.7
+50		0°-41.1'		T. 91.82 ✓
131+32.88	P.C. ✓	0°-00'		L. 182.56 ✓
				R. 716.78 ✓

N. 72°-50'E ✓



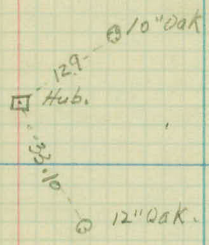
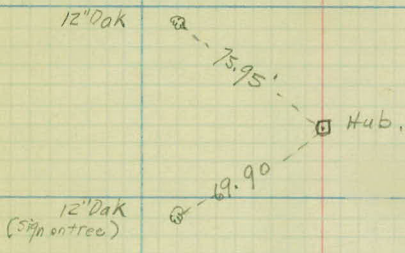
Station	Point	Lt. Δ	Rt.	Bear.
				S. 42° 07' E. ✓
147+53.65 ✓	P.T.	5° 50.5'		8° C.Lt.
147+00		3° 41.8'		Δ 11° 41'
				P.I. 146+80.9
146+50		1° 41.8'		T. 73.33 ✓
				L. 146.08 ✓
146+07.87 ✓	P.C.	0° 00'		R. = 716.78 ✓
				S. 30° 26' E. ✓
144+07.81	P.T. ✓		28° 55'	
144			28° 08.2	20° C. Rt.
+50			23° 08.2	Δ 57° 50'
143			18° 08.2	P.I. 142+77.7
+50			13° 08.2	T. 159.06 ✓
142			8° 08.2	L. 289.17 ✓
+50			3° 08.2	R. = 287.94 ✓
141+18.04	P.C. ✓		0° 00'	
				S. 88° 16' E. ✓



Station	Point	Lt. Δ	Rt.	Bear.
162+10.63	P.T. ✓		10° 20'	S. 50° 18' E. ✓
162			9° 54'	8° C. Rt.
+50			7° 54'	Δ 20° 40'
161+00			5° 54'	P.I. 160+83.0
+50			3° 54'	T. 130.70 ✓
160+00			1° 54'	L. 258.33 ✓
159+52.30	P.C. ✓		0° 00'	R=716.78 ✓

154+67.84	P.T. ✓	14° 25.5'		S. 70° 58' E. ✓
154		12° 23.4'		
+50		10° 53.4'		6° C. Lt.
153		9° 23.4'		Δ 28° 51'
+50		7° 53.4'		P.I. 152+32.75
152		6° 23.4'		T. 245.74 ✓
+50		4° 53.4'		L. 480.83 ✓
151		3° 23.4'		R=955.37 ✓
+50		1° 53.4'		
150		0° 23.4'		
149+87.01	P.C. ✓	0° 00'		S. 42° 07' E. ✓

20⁰ 40'



station point Lt. Δ Rt. Bear

S. 49° 08' E ✓

169+46.62 P.T. ✓ 5° 17'

10° 0. At

Δ 10° 34'

169+00 2° 57.2' P.I. 168+94.0

T. 53.05 ✓

L. 105.67 ✓

168+40.95 P.C. ✓ 0° 00'

R. 573.69 ✓

S. 59° 42' E ✓

166+36.36 ✓ P.T. 42.42' 5° 0. At

166 3-47.5' Δ 92.24'

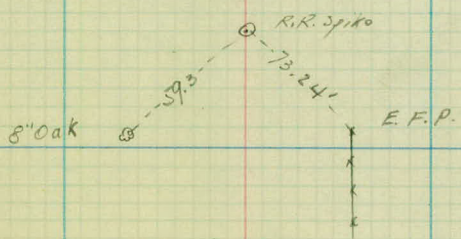
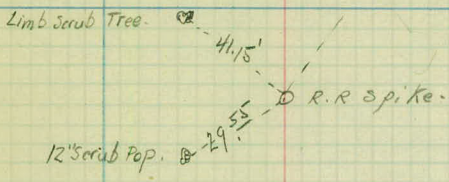
+50 2-32.5' P.I. 165+42.6

165 1-17.5' T. 94.24 ✓

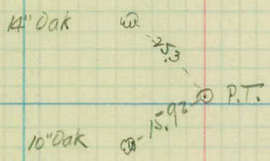
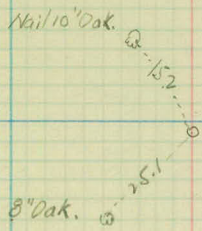
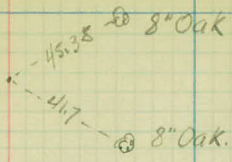
164+48.36 P.C. ✓ 0° 00' L. 188.00 ✓

R. 1146.28 ✓

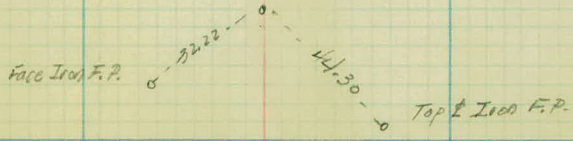
S. 50° 18' E ✓



Station	Point	Lt. A	Rt.	Bear.
184+50.6	P.O.T.			N. 79° 40' E. ✓
181+85.8	✓ P.T.		10° 53'	
181+50			9° 48.6'	
181			8° 18.6'	6° C.Lt.
+50			6° 48.6'	Δ 21° 46'
180			5° 18.6'	P.I. 180+06.7
+50			3° 48.6'	T. 183.68 ✓
179			2° 18.6'	L. 362.78 ✓
+50			0° 48.6'	R. 755.37 ✓
178+23.02	P.C. ✓		0° 00'	
175+23.18	P.T. ✓	36° 29'		N. 57° 54' E. ✓
175		34° 09.9'		
+50		29° 09.9'		
174		24° 09.9'		20° C.Lt.
+50		19° 09.9'		Δ 72° 58'
+40.77	c. of Curve.	18° 14.5'		P.I. 173+71.28
173	P.O.C	14° 09.9'		T. 212.93 ✓
+50		9° 09.9'		L. 364.83 ✓
172		4° 09.9'		R. 287.94 ✓
171+58.35	P.C. ✓	0° 00'		S. 49° 08' E. ✓



173+00 P.O.C.



Station	Point	Lt. Δ Rt.	Bear
195+00.44	P.T. ✓	29°-03.5'	N. 36° 20' E ✓
195		28°-09.7'	29°-C.Lt.
+50		21°-44.7'	Δ 58°-07'
194		14°-29.7'	P.I. 194+11.00
+50		7°-14.7'	T. 110.96 ✓
193+00.09	P.C. ✓	0°-00'	L. 200.4 ✓ R. 199.7 ✓

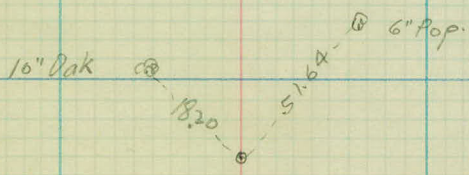
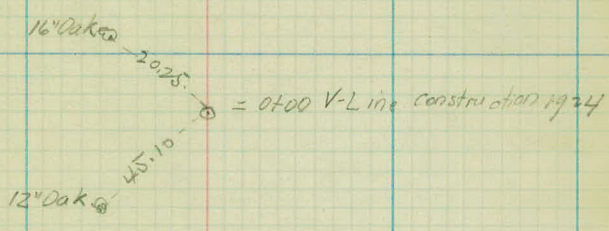
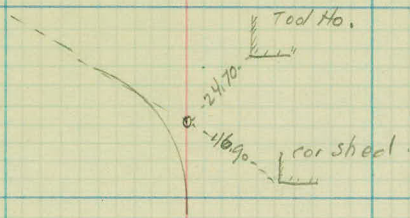
191+95.00 P.O.T.

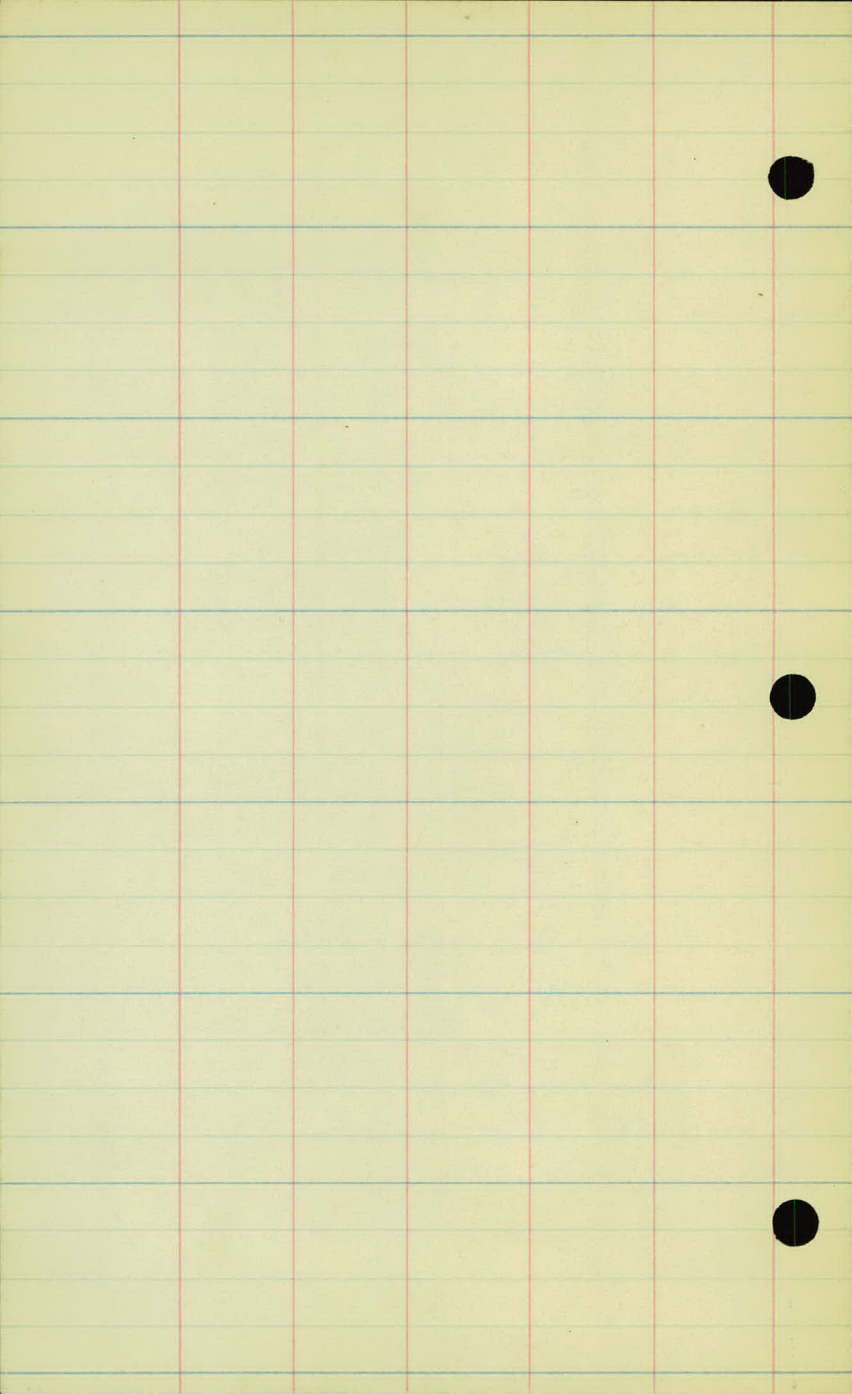
S. 85° 33' E ✓

188+93.76	P.T. ✓	7°-23.5'	
188+50		6°-19.4'	5°-C.Lt.
188		5°-04.4'	Δ 14°-47'
+50		3°-49.4'	P.I. 187+46.8
187		2°-34.4'	T. 148.71 ✓
+50		1°-19.4'	L. 295.67 ✓
186		0°-04.4'	R. 1146.28 ✓
185+98.09	P.C. ✓	0°-00'	

N. 79°-40' E ✓

W.H.C.
A.L.P. Feb 19, 1926
M.G.
H.B.





TOPOGRAPHY

117

116

115

114

113

+14.1 $\frac{1}{2}$ Rice st. Pavement

112

Open Field.

+70-36" Oak 21'

+22-24" Oak 24'
+11-16" Oak 30'

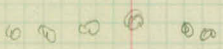
+98-12" Oak 31'
+67-24" Oak 7'

+37-24" Oak 21'
+10-20" Oak 10'

+63-8" Oak 27'
+45-6" Oak 1'
+07-20" Oak 4'

+81-20" Oak 11'
+67-24" Oak 2'
+65-8" Oak 7'
+61-24" Oak 32'

+85-16" Stp. 25'
+81-20" Oak 11'



+26" Iron Rd. Sq.

+35-33'

24' One Course CONC. P.

top. 1

124

123

122

121

120

119

118

Lake Bed.

Meadow.



+50 - E.G.R. 13'

G.R. 8'

+30 - (3) 4" Will 10'

Open Field.

+11 - E.G.R. 12'
G.R. 13

+60 - G.R. 0 & 24

G.R. 275

Old Guard Post
24 + R1.

+3.15 2 Culv. 24" X 28" C.M. with Hd. Walls.

131

(For detail see drawings notes)

130

129

128

127

126

125

120
119

121
111

121
141

121
151

121
131

121
121

121
121

121
10

138

137

136

+32- Int Road Pump Ho.

135

+95- Int Road Right.

+50- Int Road Right

134

133

132

F-31'

F-36'

16

F-31'

F-36'

F-28'

Road to Pump house

+116-B.F. Gate R 43'

F-21'

+57-10" Tree 39'
+43-8" Tree 32'
+27-10" Tree 29'
+07-14" Tree 24'

+62-B.F. 21'

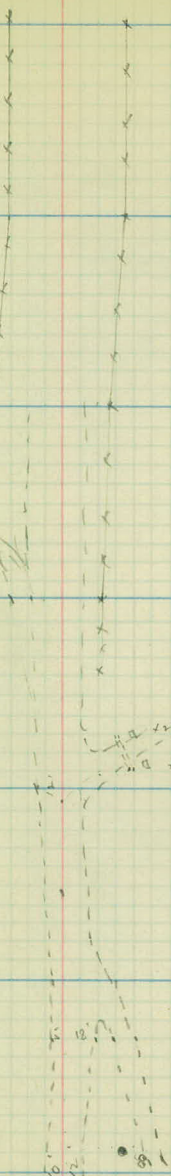
+29-30
+06-38

+14
+29-F. 24'
15" x 20' c.m.

+36-T.P. 7'
+16-10" Tree 23'

Lake Bed

+12-T.P. 36'
+07-8" Tree 48'
+01-1" Tree 50'



145

144

143

142

141

140

139

+48-Δ F. 22'

+08 14" Oak 22'

F-39'

St. Paul Water Dept.

St. P. Water Dept.

+95-F. Cor. 20'

+61-Δ F. 11'

+11-6" Oak 9'
F-13'

Cultivated

+54-8" Oak 4'
+50-F. 10'

+12-10" Oak 3'

+83-Ø. F. 5'

+71-E. F. 2'

See Old Loc.
for Pipe

F. 90

+50-F. 7'

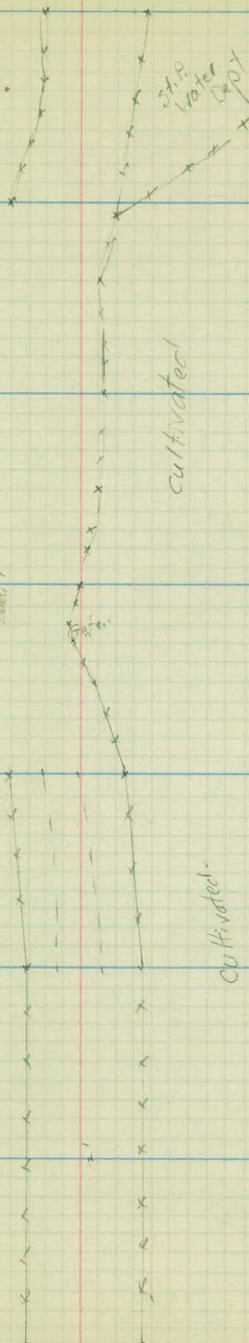
F. 6 1/2'

F-26'

F-31'

Cultivated

F-37



152

151

150

149

148

147

146

F-23'

F-36'

18

F-25'

F-29'

Scattered Oaks

Scattered Oaks

F-27'

F-31'

+11-Lake Sign 8'
F-21'

F-28'

F-24'

F-30'

Scattered Oaks

Scattered Oaks

+57-Lake Sign 21'

F-25'

F-32'

+53-10" Oak 23'
+50-F-22

+27-10" Oak 11'
+11-14" Oak 15'

159

158

157

156

155

154

153

+49-8" Oak 10'

+77-14" Oak 5'

+10-10" Oak 7'

F-17'

+96-24" Oak 12'

+42-B.F. 37'

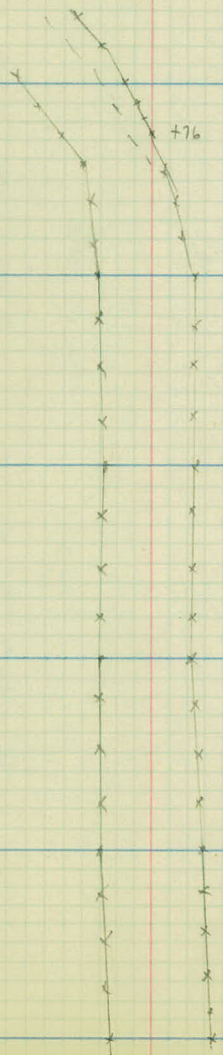
F-31'

F-26'

F-29'

F-29'

see Old Survey for note & fall



+77-12" Oak 5'

F-24'

F-24'

F-22'

F-29'

166

165

164

163

162

161

160

+86-E.F. 28'

+72-E.F. 28'

F-23'

F-26'

F-21'

F-15'

F-29'

F-18'

F-14'

+64-14 1/2'
+50-F. 4'

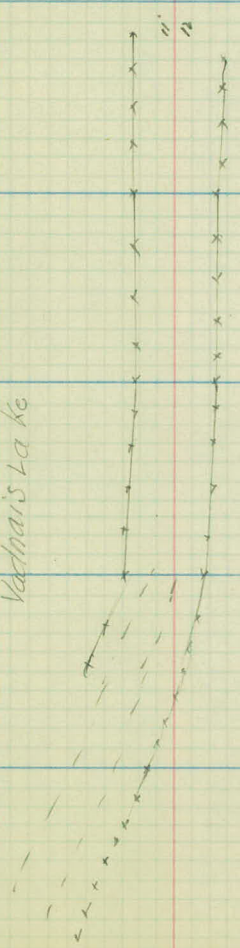
F-39'

+76-6" Oak 2'

+11-8" Oak 5'

Vacharis Lake

Scattered Oaks & Stumps



173

172

171

170

169

422 L. Culv.

168

706 - F. ENT. RT.

167

F-33'
+94-12' Oak 23'
+84-24' Iron Gate

F-18'

+50-F-29'

+50-F-17'

F-24'

F-24'

+50-F-15'

+50-F-33'

F-17'

F-34'

+76 Cor. Bldg. 33'
+57 Cor. Bldg. 30'
+47 B. In. F. 33'

8' x 18'

Willows

Iron Post Woven Wire
6' High

Willows

+06 B. In. F. 6'

+41-24' Tree 28'

Old Road

Marsh

+22 See Drainage for Detail

+89 In. Sign 23'
+75 Wood Sign 31'

+83-24' Tree 30'

+19-8' Oak 31'

7
11

180

179

178

177

176

175

174

Timber.

Timber.

+79-8" Pop 16'

+55-6" Pop 15'

+03-16" oak 21'

+97-E. Ir. F. 23'

+59-10" oak 20'

+50-F-28'

+42-12" oak 18'

+23-12" Birch 20'

+18-8" oak 15'

F-32'

+85-6" oak 19'

+79-8" Tw. 19'

+55-14" Pop. 32'

+50-F-34'

+40-10" Tree 22'

+35-14" Pop 32'

+10-12" Pop 31'

+16-12" Tree 20'

+71-E. Iron F. 28'

+54-8" oak 23'

+76-6" Tree 15'

F-22'

+50-F-24'

+40 R 4" Ir. Gate

+24-12" Ir. Gate.

187

186

185

184

183

185 - Five Drive Rt.

182

181

+91-10" Tree 18'

+49-2" Tree 12'

+24-6" Tree 15'

scattered Timber.

20 26'

Timber

20'

20'

Timber.

+55-10" Oak 20'

Timber.

20'

20'

Timber.

194

193

192

+95 (Beg of 1923 constr. work V.L. Line)

191

+03 - £ 12" X 52' C.M.

190

189

188

E.R. 19

+42 - laka sp 18'

E.R. 23

E.R. 26

E.R. 185

- +50 E.R. 13
- +32 - Cor. Shed 22'
- 120 - Δ E.R. 144
- +12" B. E.R. 16'
- +05 - 12" DAK 19'

- +94 - 12" Oak 18'
- +80 - 18" Oak 18'

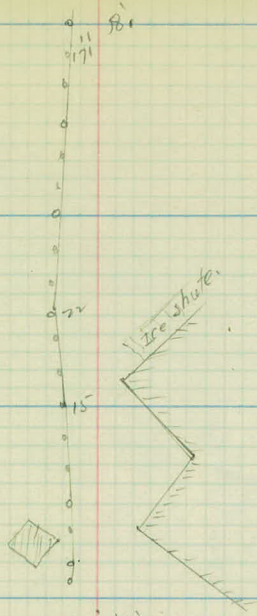
- +51 - 14" Oak 15'
- +40 - 10" DAK 21'
- +06 18" Oak 20'

+07 - 24'

+01 - 26'

Scattered Timber

Timber



16'
 5 @ 500
 Small Poplars.

202

201

200

199

198

197

196

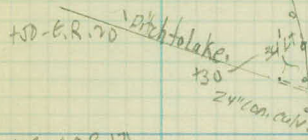
195

See Appendix
Plan
Arrows 190.



See Centerville Road
for connection.

E.R. 3



- +50 - E.R. 24
- +32 - Δ E.R. 13
- +20 - Δ M.H. 31
- +12 - C. Pier 59
- +09 - B. E.R. 14

2 Lines conc. culv.

+95 - Δ E.R. 17

+50 - E.R. 16

+10 - Lake Sign 17
E.R. 17

E.R. 17

Lake Shore.

E.R. 17

E.R. 17

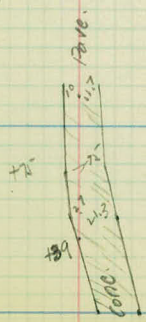
+50 E.R. 17

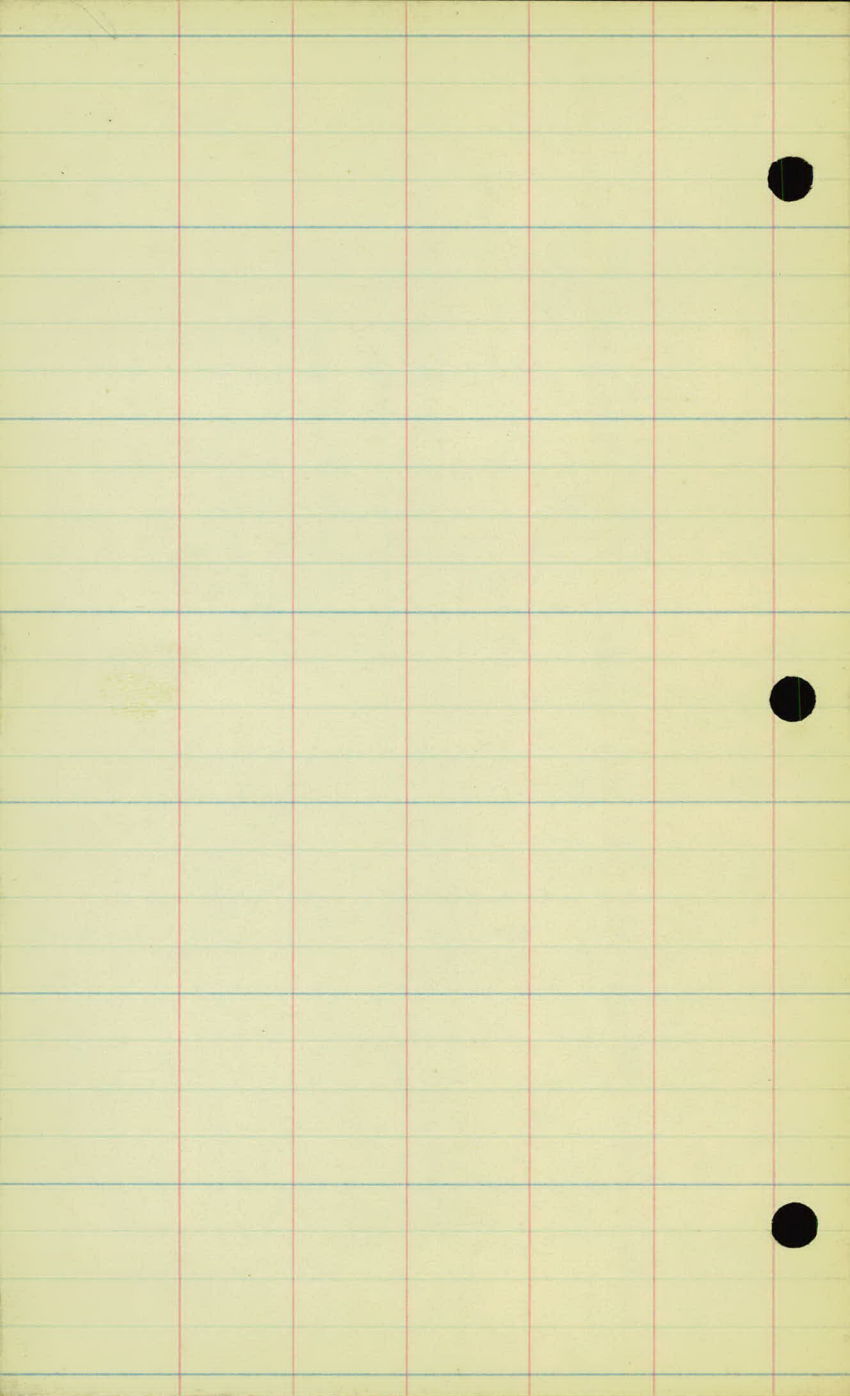
Vertical Line

203

202

For more detail see
Centerville and Edgerton
Prog. surveys.





LEVELS

Station	+	H.I	-	Elev.
B.M.	3.51	931.43		927.92 ✓
112+14			3.46	27.97
112+26			3.56	27.87
+31			3.8	27.6
+38			5.0	26.4
113			7.0	24.4
+50			8.0	23.4
114			9.6	21.8
+50			12.0	19.4
T.P.	1.41	921.76	11.08	920.35 ✓
115			6.1	15.7
+50			11.4	10.4
T.P.	0.62	912.09	10.29	911.47 ✓
116			8.4	03.7
T.P.	3.89	903.32	12.66	899.43 ✓
+50			5.7	97.6
117			10.8	92.5
+50			14.2	89.1
T.P.	0.91	891.24	12.99	890.33 ✓
118			5.9	85.3
+50			8.0	83.7
119			2.4	82.8
+25			7.7	83.5
+52.15			4.0	87.2
+62			2.1	89.1
120+00			3.3	87.9

R.R. spike in cottonwood 150' Rt. Sta 112750

± Rice Pavement.

E. Edge Rice St. Pavement.

Vad. Lake Survey

1924. = Elev. 924.52
Co. Rd. E. = 24.21
+ .31

P.C.

± Vadnais Blvd

Station	+	H.I	-	Elev.
		891.24		
120+50			4.6	86.6
121			5.3	85.9
+50			5.6	85.6
122			5.7	85.5
+50			5.7	85.5
123			5.5	85.7
+50			5.5	85.7
T.P.	5.54	891.06	5.72	885.52
124			5.5	85.6
125			5.3	85.8
126			5.2	85.9
127			5.0	86.1
128			5.1	86.0
129			5.4	85.7
130			5.7	85.4
131			6.0	85.1
T.P.	4.93	889.89	6.10	884.96
			11.40	78.49
132			5.3	84.6
133			4.9	85.0
134			5.1	84.8
135			4.8	85.1
+35			5.1	84.8
B.M.	10.11	894.83	5.17	884.72
136			4.7	86.1

Top of conc. Ad. Wall, (SE. cor. of N. Side)
Inv. culv. sta. 132+32 (24" c.M.)

R.R. Spike 10° 7100 39' Lt. Sta. 135+57

Station	+	H.I	-	Elev.
		894.83		
136750			6.7	88.1
137			2.7	92.1
T.P.	11.98	906.26	0.55	894.28 ✓
+50			1.3	95.0
138			8.9	97.4
139			4.0	02.3
T.P.	12.83	918.47	0.62	905.64 ✓
140			10.8	07.7
141			5.7	12.8
142			1.1	17.4
T.P.	10.89	928.85	0.51	917.96 ✓
+50			3.0	20.9
143			6.6	22.3
+50			5.2	23.7
144			5.6	23.3
+50			5.0	23.9
145			3.0	25.9
146			2.8	26.1
T.P.	2.77	929.76	1.86	926.99 ✓
+50			3.2	26.6
147			3.2	26.0
+53			4.8	25.0
148			5.7	24.1
149			8.0	21.8
150			10.0	19.8
+50			11.4	18.4

Top Stake 186+07

Station.	+	H.I	-	Elev.
		929.76		
151			12.3	17.5
B.M.	1.79	919.25	12.30	917.46
+50			2.6	16.7
152			3.5	15.8
+50			5.0	14.3
153			6.6	12.7
+50			8.9	10.4
154			10.8	08.5
+62			13.3	06.0
T.P.	1.10	907.75	12.60	906.65
155			2.9	04.9
156			4.4	03.4
157			4.7	03.1
+50			5.2	02.6
158			6.0	01.8
+27			5.9	01.9
+50			3.8	04.0
159			5.4	02.4
+52			6.7	01.1
160			5.8	02.0
+50			5.4	02.4
161			4.5	03.3
+63			4.4	03.4
T.P.	1.97	902.35	7.37	900.38
+75			1.9	00.5

2-4-26

Nail in 10" Oak. 3'rt. 56. 151+03

Station	+	H.I. 90 [✓] .35	-	Elev.
162			2.6	899.8
163			3.5	98.9
164			4.4	98.0
165			5.1	97.3
166			6.5	95.9
167			10.5	91.9
T.P.	3.73	894.27 [✓]	11.81	890.54 [✓]
B.M.	0.91	889.13 [✓]	6.05	888.22 [✓]
168			1.9	87.2
+22			5.75	83.38
+41			3.05	85.6
169			4.5	84.6
+47			5.4	83.7
+83			9.5	79.6
170			9.9	79.2
+50			9.7	79.4
171			11.4	77.7
+18			9.5	79.6
+37			6.4	82.7
+58			5.4	83.7
172			5.3	83.8
T.P.	6.84	891.80 [✓]	4.17	884.96 [✓]
+50			7.1	84.1
173			7.2	84.6
+50			7.1	84.1

spike in 16" Tico Rt. Sta. 167+85
(Same as water Dept)

L Culvi 2.7' Arch.

16" face conc.

station	+	H.J	-	E lev.
		891.80		
174			7.2	84.6
+50			6.7	85.1 85.3
175			5.7	86.1
+24			5.1	86.7
176			2.7	87.1
T.P.	11.80	903.03 ✓	0.57	891.23 ✓
177			10.9	92.1
178			7.1	95.9
179			3.6	99.4
+50			2.0	901.0
T.P.	11.94	914.50 ✓	0.47	902.56 ✓
180			11.5	03.0
+50			9.6	04.9
181			7.6	06.9
+50			5.7	08.8
182			3.8	10.7
+50			2.1	12.4
183			1.5	13.0
184			2.2	12.3
185 +00			2.6	11.9
+60			3.9	10.6
186			5.7	08.8
T.P.	0.56	909.16 ✓	5.90	908.60 ✓
187			4.8	04.4
188			10.5	48.7



Sta.	T	H.I	-	Elev.
		909.16		
T.P.	2.04	898.02 [✓]	13.18	895.98 [✓]
189			3.8	94.2
190			6.4	91.6
191			6.2	91.8
+95			4.6	93.4
B.M.			2.01	896.01

96.01

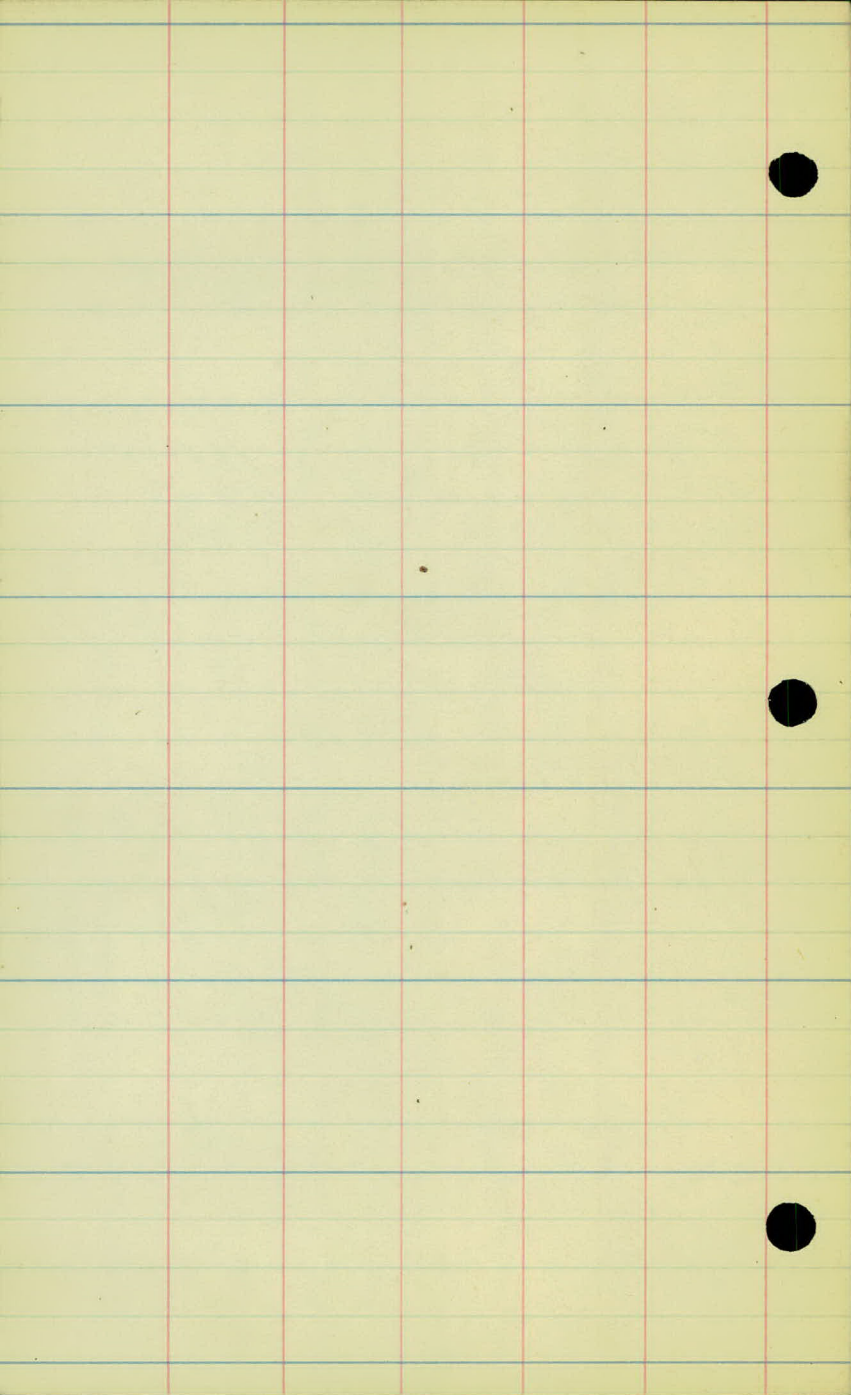
+ .31

96.32

R.R. Spike N.W. cor. Ice Ho. Rt. Sta. 1967

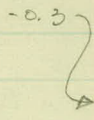
96.29 = W.L. survey

.03 check



X-SECTIONS

station	Elev.
116+50	97.6
116	03.7
+50	104.
115	15.7
+50	19.4
114	21.8
+50	23.4
113	24.4
+38	26.4
+31	27.6
112+26	27.9
112+14	28.0



W.H.C.
A.L.P. 3-2-26
M.G.
H.B.

L. Z Rt.

$$\frac{-5.3}{33}$$

$$\frac{-2.6}{17}$$

$$\frac{+3.4}{26}$$

$$\frac{+4.4}{33}$$

$$\frac{-4.5}{33}$$

$$\frac{-2.7}{20}$$

$$\frac{+3.0}{23}$$

$$\frac{+4.0}{33}$$

$$\frac{-3.2}{33}$$

$$\frac{-1.7}{19}$$

$$\frac{+2.1}{25}$$

$$\frac{+3.1}{33}$$

$$\frac{-2.4}{33}$$

$$\frac{-1.4}{22}$$

$$\frac{+1.2}{19}$$

$$\frac{+2.1}{33}$$

$$\frac{-0.9}{33}$$

$$\frac{-0.2}{28}$$

$$\frac{+0.6}{21}$$

$$\frac{+1.2}{33}$$

$$\frac{-0.6}{33}$$

$$\frac{+0.3}{33}$$

$$\frac{-0.2}{33}$$

$$\frac{+0.5}{33}$$

$$\frac{0.0}{33}$$

$$\frac{+0.5}{33}$$

$$\frac{-0.4}{33}$$

$$\frac{-0.3}{33}$$

$$\frac{+0.5}{33}$$

0.0

$$\frac{+0.3}{33}$$

$$\frac{+0.1}{33}$$

0.0

$$\frac{0.0}{33}$$

← E. Edge movement →

$$\frac{+0.1}{33}$$

0.0

$$\frac{0.0}{33}$$

Station		Elev.
122+50		85.5
122		85.5
+50		85.6
121		85.9
+50		86.6
120+00		87.9
+62	+1.2	89.1
+33	+1.1	83.9
119		82.8
+65	-2.1	83.2
118		85.3
+50	+3.8	89.1
7		
117+00		92.5

$$\begin{array}{r} \text{LH} \\ -4.9 \\ \hline 33 \end{array} \quad \begin{array}{r} -4.0 \\ \hline 20 \end{array} \quad \begin{array}{r} -0.9 \\ \hline 13 \end{array}$$

Z

$$\text{RH} \\ +0.1 \quad -0.3 \quad -0.3 \quad -0.4 \quad -0.9 \\ \hline 4 \quad 12 \quad 20 \quad 30 \quad 33$$

$$\begin{array}{r} -5.0 \\ \hline 33 \end{array} \quad \begin{array}{r} -3.4 \\ \hline 15 \end{array} \quad \begin{array}{r} -0.9 \\ \hline 11 \end{array}$$

SP

$$+0.3 \quad -0.3 \quad -2.1 \quad -2.5 \quad -3.6 \quad -3.6 \\ \hline 6 \quad 15 \quad 19 \quad 25 \quad 29 \quad 33$$

$$\begin{array}{r} -4.8 \\ \hline 33 \end{array} \quad \begin{array}{r} -4.5 \\ \hline 20 \end{array} \quad \begin{array}{r} -0.9 \\ \hline 9 \end{array}$$

SP

$$+0.4 \quad -0.4 \quad -4.2 \quad -4.2 \\ \hline 6 \quad 16 \quad 29 \quad 33$$

$$\begin{array}{r} -5.1 \\ \hline 33 \end{array} \quad \begin{array}{r} -5.0 \\ \hline 21 \end{array} \quad \begin{array}{r} -0.8 \\ \hline 12 \end{array}$$

SP

$$-0.3 \quad -3.9 \quad -3.9 \quad -1.8 \\ \hline 18 \quad 22 \quad 29 \quad 33$$

$$\begin{array}{r} -6.0 \\ \hline 33 \end{array} \quad \begin{array}{r} -5.2 \\ \hline 22 \end{array} \quad \begin{array}{r} -0.5 \\ \hline 12 \end{array}$$

SP

$$-0.6 \quad -4.9 \quad -3.4 \quad -3.7 \\ \hline 12 \quad 22 \quad 29 \quad 33$$

$$\begin{array}{r} -6.9 \\ \hline 33 \end{array} \quad \begin{array}{r} -6.1 \\ \hline 21 \end{array} \quad \begin{array}{r} -2.8 \\ \hline 13 \end{array} \quad \begin{array}{r} 0.0 \\ \hline 8 \end{array}$$

$$-0.1 \quad -4.0 \quad -5.5 \\ \hline 13 \quad 22 \quad 33$$

$$\begin{array}{r} -8.1 \\ \hline 33 \end{array} \quad \begin{array}{r} -7.4 \\ \hline 20 \end{array} \quad \begin{array}{r} -5.3 \\ \hline 9 \end{array}$$

$$+0.4 \quad +0.6 \quad -0.5 \quad -6.6 \\ \hline 15 \quad 25 \quad 28 \quad 38$$

$$\begin{array}{r} -2.8 \\ \hline 33 \end{array} \quad \begin{array}{r} -1.0 \\ \hline 4 \end{array}$$

$$+3.5 \quad +7.0 \quad +6.9 \quad +7.0 \\ \hline 8 \quad 14 \quad 28 \quad 33$$

$$\begin{array}{r} -1.0 \\ \hline 33 \end{array} \quad \begin{array}{r} -0.5 \\ \hline 20 \end{array}$$

$$+3.5 \quad +5.5 \quad +10.3 \\ \hline 11 \quad 24 \quad 33$$

$$\begin{array}{r} -0.7 \\ \hline 33 \end{array} \quad \begin{array}{r} -0.9 \\ \hline 21 \end{array}$$

$$+1.0 \quad +2.0 \quad +2.7 \\ \hline 18 \quad 29 \quad 33$$

$$\begin{array}{r} -2.1 \\ \hline 33 \end{array} \quad \begin{array}{r} -1.2 \\ \hline 15 \end{array}$$

$$+1.2 \quad +2.3 \\ \hline 20 \quad 33$$

$$\begin{array}{r} -3.7 \\ \hline 33 \end{array} \quad \begin{array}{r} -2.4 \\ \hline 19 \end{array}$$

$$+1.7 \quad +2.7 \\ \hline 24 \quad 33$$

$$\begin{array}{r} -3.7 \\ \hline 33 \end{array} \quad \begin{array}{r} -2.6 \\ \hline 20 \end{array}$$

$$+2.6 \quad +3.7 \\ \hline 17 \quad 33$$

Station

E lev.

133+50

0.0

85.0

133

85.0

132

84.6

131

85.1

130

85.4

129

85.7

128

86.0

127

86.1

126

85.9

125

85.8

124

85.6

+50

85.7

123

85.7

Lt. L Rt.

$-\frac{4.2}{33}$	$-\frac{3.9}{15}$	$-\frac{0.1}{8}$	54	$\frac{0.0}{8}$	$-\frac{0.8}{16}$	$-\frac{4.8}{22}$	$-\frac{5.1}{28}$	$-\frac{3.3}{33}$	$-\frac{3.1}{42}$	↑ Road
$-\frac{4.6}{33}$	$-\frac{4.0}{18}$	$-\frac{0.6}{12}$	54	$-\frac{0.7}{13}$	$-\frac{5.0}{18}$	$-\frac{6.3}{33}$				
$-\frac{4.8}{33}$	$-\frac{4.1}{22}$	$-\frac{0.9}{15}$	58	$-\frac{1.1}{9}$	$-\frac{5.6}{16}$	$-\frac{6.5}{33}$				
$-\frac{4.7}{33}$	$-\frac{3.7}{18}$	$-\frac{0.6}{13}$	54	$-\frac{0.6}{12}$	$-\frac{5.2}{18}$	$-\frac{6.4}{33}$				
$-\frac{5.0}{33}$	$-\frac{3.8}{15}$	$-\frac{0.6}{10}$	51	$-\frac{0.5}{14}$	$-\frac{5.1}{23}$	$-\frac{5.7}{33}$				
$-\frac{4.9}{33}$	$-\frac{4.9}{19}$	$-\frac{0.7}{10}$	47	$-\frac{0.6}{13}$	$-\frac{4.1}{21}$	$-\frac{4.6}{33}$				
$-\frac{5.3}{33}$	$-\frac{4.0}{21}$	$-\frac{0.5}{11}$	44	$-\frac{0.3}{13}$	$-\frac{4.2}{23}$	$-\frac{5.2}{33}$				
$-\frac{4.9}{33}$	$-\frac{2.3}{22}$	$-\frac{0.8}{14}$	43	$-\frac{0.6}{11}$	$-\frac{3.9}{19}$	$-\frac{3.8}{33}$				
$-\frac{4.8}{33}$	$-\frac{4.8}{26}$	$-\frac{0.6}{14}$	57	$-\frac{0.7}{11}$	$-\frac{2.9}{16}$	$-\frac{4.2}{23}$	$-\frac{4.9}{26}$	$-\frac{4.9}{33}$		
$-\frac{4.5}{33}$	$-\frac{3.8}{22}$	$-\frac{0.2}{14}$	50	$-\frac{0.5}{10}$	$-\frac{4.0}{19}$	$-\frac{4.1}{25}$	$-\frac{3.3}{28}$	$-\frac{3.9}{33}$		
$-\frac{4.0}{33}$	$-\frac{3.9}{26}$	$-\frac{0.3}{13}$	57	$-\frac{0.2}{10}$	$-\frac{4.5}{21}$	$-\frac{3.4}{27}$	$-\frac{4.3}{33}$			
$-\frac{5.0}{33}$	$-\frac{3.9}{20}$	$-\frac{0.8}{13}$	49	$-\frac{0.6}{11}$	$-\frac{3.6}{19}$	$-\frac{4.1}{26}$	$-\frac{3.5}{28}$	$-\frac{4.6}{33}$		
$-\frac{5.1}{33}$	$-\frac{4.1}{23}$	$-\frac{1.3}{13}$	49	$-\frac{0.4}{11}$	$-\frac{3.5}{18}$	$-\frac{4.1}{26}$	$-\frac{3.2}{29}$	$-\frac{3.6}{33}$		

station

Elev.

138 +50

+2.5

99.9.

138

97.4.

+60

-2.0

95.4.

+29

+1.5

93.6.

137

92.1.

+62

+0.8

88.9.

+50

88.1.

136+00

86.1.

+35

-0.4

84.7⁸.

135

85.1.

+50

-0.2

84.6.

134

84.8.

Lt.

L

Rt.

$$\begin{array}{r} +0.6 \\ 33 \end{array} \quad \begin{array}{r} +0.1 \\ 20 \end{array} \quad \begin{array}{r} -1.1 \\ 17 \end{array} \quad \begin{array}{r} -1.4 \\ 15 \end{array} \quad \begin{array}{r} -0.4 \\ 13 \end{array}$$

80

$$\begin{array}{r} -0.3 \\ 12 \end{array} \quad \begin{array}{r} -0.6 \\ 16 \end{array} \quad \begin{array}{r} -0.6 \\ 18 \end{array} \quad \begin{array}{r} +3.0 \\ 22 \end{array} \quad \begin{array}{r} +3.6 \\ 33 \end{array}$$

$$\begin{array}{r} +0.3 \\ 33 \end{array} \quad \begin{array}{r} +0.3 \\ 29 \end{array} \quad \begin{array}{r} -0.4 \\ 26 \end{array} \quad \begin{array}{r} 0.0 \\ 16 \end{array} \quad \begin{array}{r} -1.1 \\ 15 \end{array} \quad \begin{array}{r} -0.5 \\ 11 \end{array}$$

61

$$\begin{array}{r} -0.6 \\ 14 \end{array} \quad \begin{array}{r} -1.5 \\ 16 \end{array} \quad \begin{array}{r} -1.5 \\ 17 \end{array} \quad \begin{array}{r} -0.2 \\ 20 \end{array} \quad \begin{array}{r} +3.1 \\ 30 \end{array} \quad \begin{array}{r} +4.7 \\ 33 \end{array}$$

$$\begin{array}{r} -2.5 \\ 33 \end{array} \quad \begin{array}{r} -0.9 \\ 28 \end{array} \quad \begin{array}{r} -0.6 \\ 19 \end{array} \quad \begin{array}{r} -0.3 \\ 13 \end{array}$$

81

$$\begin{array}{r} -0.6 \\ 10 \end{array} \quad \begin{array}{r} -1.2 \\ 12 \end{array} \quad \begin{array}{r} -1.2 \\ 17 \end{array} \quad \begin{array}{r} +1.3 \\ 20 \end{array} \quad \begin{array}{r} +3.4 \\ 28 \end{array} \quad \begin{array}{r} +4.0 \\ 33 \end{array}$$

$$\begin{array}{r} -4.2 \\ 33 \end{array} \quad \begin{array}{r} -1.1 \\ 27 \end{array} \quad \begin{array}{r} -0.2 \\ 14 \end{array}$$

51

$$\begin{array}{r} -0.6 \\ 9 \end{array} \quad \begin{array}{r} -1.2 \\ 11 \end{array} \quad \begin{array}{r} -1.2 \\ 15 \end{array} \quad \begin{array}{r} +1.8 \\ 18 \end{array} \quad \begin{array}{r} +2.3 \\ 21 \end{array} \quad \begin{array}{r} +4.5 \\ 24 \end{array} \quad \begin{array}{r} +5.3 \\ 33 \end{array}$$

$$\begin{array}{r} -9.0 \\ 33 \end{array} \quad \begin{array}{r} -7.6 \\ 27 \end{array} \quad \begin{array}{r} -0.9 \\ 17 \end{array}$$

66

$$\begin{array}{r} -0.4 \\ 5 \end{array} \quad \begin{array}{r} -1.1 \\ 12 \end{array} \quad \begin{array}{r} +4.9 \\ 16 \end{array} \quad \begin{array}{r} +5.6 \\ 19 \end{array} \quad \begin{array}{r} +6.2 \\ 28 \end{array} \quad \begin{array}{r} +6.3 \\ 33 \end{array}$$

$$\begin{array}{r} -5.0 \\ 33 \end{array} \quad \begin{array}{r} -4.7 \\ 29 \end{array} \quad \begin{array}{r} +0.2 \\ 19 \end{array} \quad \begin{array}{r} +0.7 \\ 11 \end{array}$$

97

$$\begin{array}{r} 2.0 \\ 7 \end{array} \quad \begin{array}{r} +5.2 \\ 12 \end{array} \quad \begin{array}{r} +9.2 \\ 22 \end{array} \quad \begin{array}{r} +12.0 \\ 33 \end{array}$$

$$\begin{array}{r} -4.9 \\ 33 \end{array} \quad \begin{array}{r} -3.1 \\ 29 \end{array} \quad \begin{array}{r} 0.0 \\ 21 \end{array} \quad \begin{array}{r} +0.1 \\ 10 \end{array}$$

105

$$\begin{array}{r} 2.0 \\ 9 \end{array} \quad \begin{array}{r} +7.5 \\ 22 \end{array} \quad \begin{array}{r} +16.1 \\ 35 \end{array}$$

$$\begin{array}{r} -2.5 \\ 38 \end{array} \quad \begin{array}{r} +0.1 \\ 30 \end{array} \quad \begin{array}{r} +0.6 \\ 14 \end{array}$$

113

$$\begin{array}{r} 0.0 \\ 15 \end{array} \quad \begin{array}{r} -0.7 \\ 23 \end{array} \quad \begin{array}{r} -0.4 \\ 29 \end{array} \quad \begin{array}{r} +4.6 \\ 33 \end{array}$$

$$\begin{array}{r} -2.0 \\ 33 \end{array} \quad \begin{array}{r} 0.0 \\ 19 \end{array}$$

57

$$\begin{array}{r} -0.6 \\ 22 \end{array} \quad \begin{array}{r} -0.9 \\ 26 \end{array} \quad \begin{array}{r} +1.6 \\ 33 \end{array}$$

$$\begin{array}{r} -2.5 \\ 33 \end{array} \quad \begin{array}{r} -1.7 \\ 19 \end{array} \quad \begin{array}{r} -0.5 \\ 13 \end{array}$$

50

$$\begin{array}{r} -0.4 \\ 9 \end{array} \quad \begin{array}{r} -1.2 \\ 17 \end{array} \quad \begin{array}{r} -2.1 \\ 33 \end{array}$$

$$\begin{array}{r} -2.2 \\ 33 \end{array} \quad \begin{array}{r} -1.6 \\ 11 \end{array} \quad \begin{array}{r} -0.4 \\ 6 \end{array}$$

51

$$\begin{array}{r} +0.3 \\ 8 \end{array} \quad \begin{array}{r} 0.0 \\ 17 \end{array} \quad \begin{array}{r} -2.1 \\ 23 \end{array} \quad \begin{array}{r} -3.2 \\ 33 \end{array}$$

$$\begin{array}{r} -2.5 \\ 33 \end{array} \quad \begin{array}{r} -2.0 \\ 27 \end{array} \quad \begin{array}{r} -1.8 \\ 13 \end{array} \quad \begin{array}{r} -0.3 \\ 5 \end{array}$$

55

$$\begin{array}{r} +0.3 \\ 9 \end{array} \quad \begin{array}{r} -1.3 \\ 26 \end{array} \quad \begin{array}{r} -3.6 \\ 50 \end{array}$$

Station

Elev.

145+50 -0.2 25.7

145 25.9

+50 23.9

144 23.3

+50 23.7

143 22.3

+50 20.9

142 17.4

+50 -2.0 15.4

141 12.8

140 07.7

139 902.3

Lt. Q Rt.

$\frac{-1.5}{33}$	$\frac{-0.8}{23}$	$\frac{-0.4}{10}$	57	$\frac{+0.7}{10}$	$\frac{+0.5}{18}$	$\frac{+0.3}{24}$	$\frac{+0.9}{26}$	$\frac{+1.6}{33}$
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$\frac{-2.4}{33}$	$\frac{-1.6}{28}$	$\frac{-1.0}{20}$	57	$\frac{-0.2}{11}$	$\frac{+0.5}{14}$	$\frac{+0.1}{29}$	$\frac{-0.2}{33}$
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$\frac{+0.6}{33}$	$\frac{+0.9}{22}$	$\frac{0.0}{8}$	77	$\frac{-0.1}{18}$	$\frac{7.0}{33}$
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$\frac{-0.1}{33}$	86	$\frac{+0.1}{13}$	$\frac{-0.3}{33}$
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$\frac{+0.5}{33}$	90	$\frac{+1.1}{11}$	$\frac{+0.6}{33}$
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$\frac{-0.8}{33}$	92	$\frac{-0.6}{20}$	$\frac{-0.3}{33}$
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$\frac{-0.6}{33}$	$\frac{-0.5}{24}$	$\frac{-1.3}{10}$	$\frac{-0.5}{5}$	23	$\frac{+0.4}{10}$	$\frac{+0.8}{33}$
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$\frac{+2.3}{33}$	$\frac{+2.4}{30}$	$\frac{+0.2}{23}$	$\frac{+0.5}{11}$	54	$\frac{0.0}{5}$	$\frac{+2.2}{8}$	$\frac{+3.1}{10}$	$\frac{+3.5}{26}$	$\frac{+3.5}{33}$
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$\frac{+4.0}{33}$	$\frac{+3.7}{29}$	$\frac{+0.9}{23}$	$\frac{-0.4}{17}$	$\frac{0.0}{7}$	76	$\frac{-0.4}{9}$	$\frac{+3.2}{16}$	$\frac{+4.0}{19}$	$\frac{+4.2}{33}$
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$\frac{+4.0}{33}$	$\frac{+3.7}{25}$	$\frac{+1.3}{20}$	$\frac{0.0}{15}$	$\frac{-0.6}{14}$	50	$\frac{-0.8}{10}$	$\frac{-0.8}{12}$	$\frac{+2.2}{19}$	$\frac{+3.0}{22}$	$\frac{+3.2}{33}$
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$\frac{+3.5}{33}$	$\frac{+3.3}{26}$	$\frac{-1.2}{19}$	$\frac{-1.2}{16}$	$\frac{-0.6}{11}$	107	$\frac{-0.7}{12}$	$\frac{-1.3}{17}$	$\frac{+3.9}{23}$	$\frac{+4.3}{33}$
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$\frac{+2.0}{33}$	$\frac{+1.9}{23}$	$\frac{-0.9}{17}$	$\frac{-0.5}{14}$	59	$\frac{-0.4}{12}$	$\frac{-0.3}{16}$	$\frac{+3.0}{12}$	$\frac{+3.7}{33}$
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station

Elev.

7

+50

16.7.

151

17.5.

+50

18.4.

150

19.8.

+50

+1.4

21.2.

149

21.8.

+50

-0.9

23.2.

148

24.1.

+53

25.0.

147

26.0.

+50

26.6.

146

26.1.

Lt. L Rt.

$\frac{+0.3}{33}$	$\frac{+0.6}{20}$	$\frac{-1.2}{16}$	$\frac{-0.3}{9}$	67	$\frac{-0.3}{16}$	$\frac{-0.9}{18}$	$\frac{-2.0}{29}$	$\frac{-2.3}{33}$
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$\frac{-1.7}{33}$	$\frac{-1.6}{26}$	$\frac{-1.1}{19}$	$\frac{-1.7}{14}$	$\frac{-0.7}{10}$	58	$\frac{-0.3}{17}$	$\frac{-0.9}{19}$	$\frac{-0.7}{33}$
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$\frac{-6.5}{33}$	$\frac{-4.9}{26}$	$\frac{-4.5}{16}$	$\frac{-0.7}{7}$	50	$\frac{+0.4}{9}$	$\frac{+0.1}{17}$	$\frac{+0.1}{21}$	$\frac{-0.4}{26}$	$\frac{+1.0}{33}$
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$\frac{-4.6}{33}$	$\frac{-4.3}{24}$	$\frac{-0.4}{8}$	36	$\frac{-0.2}{17}$	$\frac{-0.4}{20}$	$\frac{+1.2}{23}$	$\frac{+2.0}{33}$
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$\frac{-3.0}{33}$	$\frac{-2.2}{25}$	$\frac{-1.5}{14}$	$\frac{-0.3}{9}$	22	$\frac{-0.3}{14}$	$\frac{-0.6}{17}$	$\frac{-0.1}{20}$	$\frac{+1.0}{33}$
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$\frac{-3.2}{33}$	$\frac{-2.7}{21}$	$\frac{-2.1}{12}$	$\frac{-0.6}{7}$	44	$\frac{+0.2}{10}$	$\frac{-0.3}{19}$	$\frac{-0.4}{23}$	$\frac{+0.3}{31}$	$\frac{+0.3}{33}$
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$\frac{-2.1}{33}$	$\frac{-2.5}{22}$	$\frac{-2.0}{13}$	$\frac{-0.8}{8}$	86	$\frac{-0.4}{17}$	$\frac{-0.8}{21}$	$\frac{-0.4}{33}$
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$\frac{-3.0}{33}$	$\frac{-1.4}{23}$	$\frac{-0.6}{12}$	$\frac{-0.9}{10}$	$\frac{-0.3}{7}$	77	$\frac{-0.1}{13}$	$\frac{-0.1}{19}$	$\frac{-0.9}{23}$	$\frac{-0.7}{33}$
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$\frac{-2.0}{33}$	$\frac{-1.7}{24}$	$\frac{-0.9}{10}$	$\frac{-0.5}{8}$	62	$\frac{+0.1}{18}$	$\frac{-0.4}{21}$	$\frac{+0.2}{24}$	$\frac{+1.2}{33}$
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$\frac{-0.7}{33}$	$\frac{0.0}{24}$	$\frac{+0.6}{15}$	$\frac{-0.2}{9}$	51	$\frac{+0.3}{10}$	$\frac{+0.2}{18}$	$\frac{-0.4}{21}$	$\frac{+3.1}{27}$	$\frac{+3.7}{33}$
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$\frac{+1.4}{33}$	$\frac{+1.5}{22}$	$\frac{+1.7}{9}$	$\frac{+0.1}{6}$	52	$\frac{+0.6}{13}$	$\frac{0.0}{23}$	$\frac{0.0}{26}$	$\frac{+1.3}{29}$	$\frac{+1.5}{33}$
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$\frac{-0.1}{33}$	$\frac{+0.3}{20}$	$\frac{+0.3}{5}$	$\frac{-0.1}{4}$	56	$\frac{+0.9}{15}$	$\frac{+0.5}{26}$	$\frac{0.0}{28}$	$\frac{+1.0}{33}$
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Station

Elev.

+50

-0.5

02.6.

157

↳

03.1.

+50

-0.1

03.2.

156

↳

03.4.

+50

-0.9

04.0.

155

↳

04.9.

+68

06.0.

154

08.5.

+50

10.4.

153

12.7.

+50

14.3.

152

15.8.

Lt.

Z

Rt.

$$\begin{array}{ccccccc} +\frac{33}{33} & +\frac{33}{32} & -\frac{04}{26} & +\frac{03}{13} & 103 & -\frac{08}{4} & +\frac{05}{7} & -\frac{05}{16} & -\frac{21}{33} \end{array}$$

$$\begin{array}{ccccccc} +\frac{45}{23} & +\frac{32}{21} & -\frac{05}{16} & 09 & -\frac{06}{12} & -\frac{21}{26} & -\frac{33}{33} \end{array}$$

$$\begin{array}{ccccccc} +\frac{17}{33} & +\frac{07}{29} & +\frac{01}{15} & -\frac{07}{13} & 96 & -\frac{01}{13} & -\frac{21}{18} & -\frac{30}{24} & -\frac{40}{33} \end{array}$$

$$\begin{array}{ccccccc} -\frac{26}{33} & -\frac{21}{26} & -\frac{07}{16} & -\frac{04}{10} & 95 & -\frac{05}{14} & -\frac{21}{18} & -\frac{31}{25} & -\frac{28}{33} \end{array}$$

$$\begin{array}{ccccccc} -\frac{30}{33} & -\frac{24}{18} & -\frac{07}{11} & 88 & -\frac{06}{14} & -\frac{16}{16} & -\frac{20}{26} & -\frac{27}{33} \end{array}$$

$$\begin{array}{ccccccc} -\frac{16}{33} & -\frac{15}{14} & -\frac{05}{11} & 79 & -\frac{09}{14} & -\frac{21}{19} & -\frac{48}{33} \end{array}$$

$$\begin{array}{ccccccc} -\frac{25}{33} & -\frac{19}{16} & -\frac{05}{12} & 70 & -\frac{06}{13} & -\frac{34}{19} & -\frac{42}{23} & -\frac{52}{33} \end{array}$$

$$\begin{array}{ccccccc} -\frac{01}{33} & & -\frac{02}{10} & 43 & -\frac{03}{15} & -\frac{21}{21} & -\frac{40}{33} \end{array}$$

$$\begin{array}{ccccccc} +\frac{15}{33} & +\frac{08}{10} & -\frac{02}{7} & 24 & +\frac{03}{9} & \frac{00}{20} & -\frac{19}{28} & -\frac{23}{33} \end{array}$$

$$\begin{array}{ccccccc} +\frac{30}{33} & +\frac{24}{11} & -\frac{02}{5} & 106 & +\frac{02}{11} & -\frac{07}{22} & -\frac{08}{33} \end{array}$$

$$\begin{array}{ccccccc} +\frac{19}{33} & +\frac{19}{24} & +\frac{16}{13} & -\frac{01}{10} & 90 & \frac{00}{9} & -\frac{07}{20} & -\frac{08}{33} \end{array}$$

$$\begin{array}{ccccccc} +\frac{11}{33} & +\frac{11}{16} & -\frac{02}{13} & 76 & -\frac{05}{16} & -\frac{13}{20} & -\frac{19}{33} \end{array}$$

Station		Elev.
+50	-0.2	99.6 98.9
162		499.8
+75	+0.7	900.5
+83	+2.9	03.4
161		03.2 ³
+50		02.4
160		02.0
+52		01.1
159		02.4
+50	+1.6	04.0
+27	-2.1	01.9
158		901.8

Lt. I Rt.

$\frac{-7.8}{33}$	$\frac{-3.1}{21}$	$\frac{-0.8}{17}$	8.2	$\frac{-0.5}{12}$	$\frac{+2.0}{15}$	$\frac{+3.6}{33}$
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slope \rightarrow

$\frac{-5.1}{33}$	$\frac{-0.8}{23}$	$\frac{+0.2}{11}$	8.0	$\frac{+0.2}{6}$	$\frac{+3.0}{11}$	$\frac{+6.4}{33}$
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$\frac{-2.7}{33}$	$\frac{-0.5}{19}$	$\frac{-0.1}{17}$	7.3	$\frac{+2.5}{4}$	$\frac{+5.1}{21}$	$\frac{+6.3}{33}$
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\rightarrow L.Rd.

$\frac{-3.5}{33}$	$\frac{-3.2}{31}$	$\frac{-3.1}{15}$	4.4	$\frac{+0.5}{10}$	$\frac{+3.0}{23}$	$\frac{+4.1}{33}$
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$\frac{7.1}{33}$	$\frac{-2.8}{24}$	$\frac{-2.2}{22}$	4.1	$\frac{+1.8}{20}$	$\frac{+2.9}{33}$	
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\rightarrow L.Rd.

$\frac{-0.9}{33}$	$\frac{-0.8}{20}$		5.1	$\frac{0.0}{18}$	$\frac{+0.4}{33}$	
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$\frac{+1.3}{33}$	$\frac{+0.9}{18}$		5.5	$\frac{-1.4}{24}$	$\frac{-2.5}{33}$	
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$\frac{+1.4}{33}$	$\frac{+1.2}{20}$		5.2	$\frac{-1.8}{23}$	$\frac{-2.4}{33}$	
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$\frac{+1.2}{33}$	$\frac{+1.0}{25}$		5.2	$\frac{-0.5}{27}$	$\frac{-0.7}{33}$	
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$\frac{-0.5}{33}$	$\frac{-0.4}{23}$		3.6	$\frac{-0.8}{23}$	$\frac{-1.1}{33}$	
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$\frac{+0.3}{33}$	$\frac{0.0}{21}$		5.6	$\frac{-0.3}{18}$	$\frac{-0.7}{33}$	
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$\frac{+0.2}{33}$	$\frac{+0.2}{17}$		11.0	$\frac{-0.5}{22}$	$\frac{-1.0}{33}$	
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station.

E/10v.

169 84.6.

+41 85.6.

168 87.2.

+50 +2.3 89.5.

167 91.9.

+50 +2.4 94.3.

166 95.9.

+50 -0.4 96.9.

165 97.3.

+74 +9.2 97.5.

164 98.0.

163 98.9.

L

R

Rt.

$$\begin{array}{cccc} -0.3 & +1.0 & +1.1 & +0.1 \\ \hline 33 & 30 & 20 & 16 \end{array}$$

43

$$\begin{array}{ccc} -0.5 & -5.1 & -6.1 \\ \hline 10 & 19 & 33 \end{array}$$

$$\begin{array}{ccc} -3.3 & -2.1 & 0.0 \\ \hline 33 & 26 & 11 \end{array}$$

63

$$\begin{array}{ccc} -0.4 & -5.5 & -5.9 \\ \hline 14 & 27 & 33 \end{array}$$

$$\begin{array}{ccc} -1.1 & & -0.3 \\ \hline 33 & & 16 \end{array}$$

47

$$\begin{array}{ccc} -0.6 & -2.3 & -4.4 \\ \hline 15 & 21 & 33 \end{array}$$

$$\begin{array}{cccc} -2.2 & -0.2 & +0.2 & -0.4 \\ \hline 33 & 31 & 15 & 13 \end{array}$$

24

$$\begin{array}{cccc} -0.7 & -1.3 & -1.7 & +0.1 \\ \hline 17 & 20 & 30 & 33 \end{array}$$

$$\begin{array}{cccc} +3.6 & +4.2 & +3.1 & +1.7 & -0.4 \\ \hline 33 & 29 & 27 & 17 & 14 \end{array}$$

27

$$\begin{array}{ccc} -0.4 & -1.2 & -1.3 \\ \hline 16 & 21 & 33 \end{array}$$

$$\begin{array}{cccc} +1.5 & +5.2 & +5.2 & -0.1 & -0.5 \\ \hline 33 & 26 & 20 & 14 & 7 \end{array}$$

63

$$\begin{array}{ccc} 0.6 & -0.5 & +5.1 & +5.1 \\ \hline 9 & 22 & 30 & 33 \end{array}$$

$$\begin{array}{cccc} -2.5 & +6.8 & +2.4 & +0.8 & -0.2 \\ \hline \text{slope } 33 & 29 & 23 & 14 & 9 \end{array}$$

120

$$\begin{array}{ccc} -0.3 & +0.4 & +8.8 \\ \hline 17 & 24 & 37 \end{array} \text{ level:}$$

$$\begin{array}{cccc} +0.9 & +2.4 & +7.9 & +1.6 & -0.4 \\ \hline \text{slope } 33 & 25 & 22 & 14 & 9 \end{array}$$

109

$$\begin{array}{ccc} -0.3 & -0.6 & +6.3 & +6.3 \\ \hline 17 & 21 & 31 & 33 \end{array}$$

$$\begin{array}{cccc} +2.0 & +2.6 & +2.7 & +3.5 & -0.2 \\ \hline 33 & 22 & 24 & 20 & 14 \end{array}$$

145

$$\begin{array}{ccc} -0.7 & +3.5 & +3.5 \\ \hline 16 & 22 & 33 \end{array}$$

$$\begin{array}{cccc} -1.0 & -0.3 & +0.8 & -0.4 \\ \hline 33 & 26 & 18 & 14 \end{array}$$

103

$$\begin{array}{ccc} -0.3 & +1.6 & +2.0 \\ \hline 15 & 21 & 33 \end{array}$$

$$\begin{array}{ccc} -2.8 & -1.8 & -1.5 & -0.2 \\ \hline 33 & 23 & 19 & 14 \end{array}$$

98

$$\begin{array}{ccc} -0.5 & & -0.4 \\ \hline 12 & & 23 \end{array}$$

$$\begin{array}{cccc} -6.4 & -4.1 & -2.1 & -0.8 \\ \hline 33 & 27 & 19 & 14 \end{array}$$

89

$$\begin{array}{ccc} -1.0 & +0.6 & +1.3 & +1.7 \\ \hline 15 & 18 & 27 & 33 \end{array}$$

Station

Elev.

174

84.6.

+50

84.1.

173

84.6.

+50

84.1.

172

83.8.

+58

83.7.

+37

82.7.

171

77.7.

+50

79.4.

170

79.2.

+83

79.6.

169+47

83.7.

Lt.

2

Rt.

$$\begin{array}{r} +1.7 \\ 33 \end{array} \quad \begin{array}{r} -0.8 \\ 27 \end{array} \quad \begin{array}{r} -1.1 \\ 22 \end{array} \quad \begin{array}{r} 0.0 \\ 1 \end{array}$$

52

$$\begin{array}{r} -0.6 \\ 8 \end{array} \quad \begin{array}{r} -3.4 \\ 12 \end{array} \quad \begin{array}{r} -3.6 \\ 18 \end{array} \quad \begin{array}{r} -3.0 \\ 33 \end{array}$$

$$\begin{array}{r} +2.0 \\ 33 \end{array} \quad \begin{array}{r} +0.8 \\ 30 \end{array} \quad \begin{array}{r} -0.4 \\ 26 \end{array} \quad \begin{array}{r} -1.6 \\ 8 \end{array}$$

57

$$\begin{array}{r} -0.5 \\ 4 \end{array} \quad \begin{array}{r} -4.0 \\ 11 \end{array} \quad \begin{array}{r} -3.9 \\ 17 \end{array} \quad \begin{array}{r} -3.9 \\ 33 \end{array}$$

$$\begin{array}{r} +0.8 \\ 33 \end{array} \quad \begin{array}{r} +1.1 \\ 24 \end{array} \quad \begin{array}{r} -0.6 \\ 22 \end{array} \quad \begin{array}{r} -0.2 \\ 13 \end{array}$$

52

$$\begin{array}{r} -0.3 \\ 12 \end{array} \quad \begin{array}{r} -4.4 \\ 20 \end{array} \quad \begin{array}{r} -4.7 \\ 33 \end{array}$$

$$\begin{array}{r} -3.0 \\ 33 \end{array} \quad \begin{array}{r} +0.6 \\ 25 \end{array} \quad \begin{array}{r} +1.0 \\ 13 \end{array} \quad \begin{array}{r} -0.7 \\ 9 \end{array}$$

45

$$\begin{array}{r} 0.0 \\ 20 \end{array} \quad \begin{array}{r} -4.3 \\ 30 \end{array} \quad \begin{array}{r} -4.3 \\ 33 \end{array}$$

$$\begin{array}{r} -2.1 \\ 33 \end{array} \quad \begin{array}{r} +0.6 \\ 28 \end{array} \quad \begin{array}{r} +0.9 \\ 15 \end{array} \quad \begin{array}{r} -0.5 \\ 13 \end{array}$$

49

$$\begin{array}{r} -0.3 \\ 19 \end{array} \quad \begin{array}{r} -4.2 \\ 26 \end{array} \quad \begin{array}{r} -4.8 \\ 33 \end{array}$$

$$\begin{array}{r} +0.6 \\ 33 \end{array} \quad \begin{array}{r} +0.4 \\ 25 \end{array} \quad \begin{array}{r} -0.7 \\ 23 \end{array} \quad \begin{array}{r} -0.2 \\ 17 \end{array}$$

49

$$\begin{array}{r} -0.7 \\ 9 \end{array} \quad \begin{array}{r} -4.4 \\ 17 \end{array} \quad \begin{array}{r} -4.8 \\ 22 \end{array} \quad \begin{array}{r} -5.1 \\ 33 \end{array}$$

$$\begin{array}{r} -0.1 \\ 33 \end{array} \quad \begin{array}{r} 0.0 \\ 30 \end{array} \quad \begin{array}{r} +1.1 \\ 18 \end{array}$$

59

$$\begin{array}{r} -4.6 \\ 10 \end{array} \quad \begin{array}{r} -4.4 \\ 16 \end{array} \quad \begin{array}{r} -5.0 \\ 33 \end{array}$$

$$\begin{array}{r} +6.2 \\ 33 \end{array} \quad \begin{array}{r} +6.3 \\ 27 \end{array} \quad \begin{array}{r} +4.9 \\ 10 \end{array} \quad \begin{array}{r} +0.6 \\ 3 \end{array}$$

109

$$\begin{array}{r} +9.6 \\ 19 \end{array} \quad \begin{array}{r} +9.5 \\ 33 \end{array}$$

$$\begin{array}{r} +4.8 \\ 33 \end{array} \quad \begin{array}{r} +4.4 \\ 19 \end{array} \quad \begin{array}{r} +1.5 \\ 15 \end{array}$$

92

$$\begin{array}{r} -0.3 \\ 15 \end{array} \quad \begin{array}{r} -1.6 \\ 33 \end{array}$$

$$\begin{array}{r} +4.5 \\ 33 \end{array} \quad \begin{array}{r} +5.0 \\ 26 \end{array} \quad \begin{array}{r} +4.2 \\ 12 \end{array} \quad \begin{array}{r} +1.2 \\ 6 \end{array}$$

94

$$\begin{array}{r} -0.1 \\ 15 \end{array} \quad \begin{array}{r} -0.3 \\ 33 \end{array}$$

$$\begin{array}{r} +4.0 \\ 33 \end{array} \quad \begin{array}{r} +4.6 \\ 19 \end{array} \quad \begin{array}{r} +3.8 \\ 7 \end{array}$$

91

$$\begin{array}{r} -0.3 \\ 7 \end{array} \quad \begin{array}{r} -0.4 \\ 33 \end{array}$$

$$\begin{array}{r} +1.8 \\ 33 \end{array} \quad \begin{array}{r} +1.9 \\ 27 \end{array} \quad \begin{array}{r} +0.3 \\ 24 \end{array} \quad \begin{array}{r} +0.6 \\ 12 \end{array}$$

50

$$\begin{array}{r} -3.9 \\ 9 \end{array} \quad \begin{array}{r} -4.5 \\ 33 \end{array}$$

Station

Elev.

180 * 03.0

+50 +2.0 01.0

179 99.4

+50 +11.7 97.6

178 95.9

+50 +11.9 94.0

177 92.1

+50 +11.4 90.5

176 89.1

+50 -1.5 87.6

175 86.1

174+50

85.1
85.3

Lt.

2

Rt.

47

$$\frac{-6.1}{33} \quad \frac{-0.6}{19} \quad \frac{-1.1}{17} \quad \frac{-0.6}{9} \quad 12.8$$

$$\frac{-0.4}{10} \quad \frac{-0.4}{14} \quad \frac{+7.4}{26} \quad \frac{+9.3}{33} \quad \frac{+10.0}{40}$$

$$\frac{-6.4}{33} \quad \frac{-1.7}{24} \quad \frac{-1.1}{17} \quad \frac{-0.4}{13} \quad 14.6$$

$$\frac{-0.5}{10} \quad \frac{+0.6}{16} \quad \frac{+5.5}{23} \quad \frac{+7.5}{33} \quad \frac{+8.8}{40}$$

$$\frac{5.5}{33} \quad \frac{-1.4}{27} \quad \frac{-1.1}{21} \quad \frac{-1.8}{18} \quad \frac{-1.6}{15} \quad \frac{-0.6}{10} \quad 5.9$$

$$\frac{-0.4}{11} \quad \frac{-0.1}{16} \quad \frac{+0.1}{19} \quad \frac{+4.8}{24} \quad \frac{+8.1}{37}$$

$$\frac{-9.1}{33} \quad \frac{-0.7}{22} \quad \frac{-0.3}{16} \quad \frac{-0.7}{13} \quad 7.5$$

$$\frac{-0.2}{12} \quad \frac{-0.2}{19} \quad \frac{+6.9}{28} \quad \frac{+10.0}{40}$$

$$\frac{-9.0}{33} \quad \frac{-6.3}{31} \quad \frac{-5.8}{29} \quad \frac{-1.1}{20} \quad \frac{-0.7}{7} \quad 9.2$$

$$\frac{-0.3}{10} \quad \frac{-0.2}{16} \quad \frac{-0.5}{19} \quad \frac{+5.6}{28} \quad \frac{+20.8}{33} \quad \frac{+8.5}{40}$$

$$\frac{-2.5}{33} \quad \frac{-5.0}{30} \quad \frac{-3.8}{28} \quad \frac{-1.0}{19} \quad \frac{-0.8}{8} \quad 4.6$$

$$\frac{-0.6}{9} \quad \frac{-0.6}{15} \quad \frac{-1.0}{17} \quad \frac{-0.4}{21} \quad \frac{+2.8}{26} \quad \frac{+4.8}{33}$$

$$\frac{-5.8}{33} \quad \frac{-3.5}{32} \quad \frac{-1.3}{26} \quad \frac{-0.8}{20} \quad \frac{-0.4}{15} \quad \frac{-0.4}{10} \quad 2.5$$

$$\frac{-0.6}{9} \quad \frac{-0.4}{14} \quad \frac{-0.8}{18} \quad \frac{+2.2}{23} \quad \frac{+4.2}{33}$$

$$\frac{5.2}{33} \quad \frac{4.4}{32} \quad \frac{-1.5}{25} \quad \frac{-1.3}{17} \quad \frac{-0.4}{13} \quad \frac{-0.3}{11} \quad 3.2$$

$$\frac{-0.5}{9} \quad \frac{-0.4}{12} \quad \frac{-0.4}{16} \quad \frac{+1.9}{27} \quad \frac{+3.8}{33}$$

$$\frac{-1.8}{33} \quad \frac{-1.8}{21} \quad \frac{-1.6}{17} \quad \frac{-0.7}{12} \quad \frac{-0.5}{8} \quad 9.4$$

$$\frac{-0.4}{10} \quad \frac{0.0}{14} \quad \frac{0.0}{21} \quad \frac{+1.2}{23} \quad \frac{+1.4}{31} \quad \frac{+2.3}{33}$$

$$\frac{-1.0}{33} \quad \frac{-1.3}{27} \quad \frac{-2.0}{25} \quad \frac{-1.8}{14} \quad \frac{-1.0}{12} \quad \frac{-0.7}{8} \quad 3.1$$

$$\frac{0.0}{10} \quad \frac{-0.3}{15} \quad \frac{-0.2}{18} \quad \frac{-0.2}{20} \quad \frac{+0.9}{23} \quad \frac{+6.1}{30} \quad \frac{+1.5}{33}$$

$$\frac{+0.7}{33} \quad \frac{-2.1}{24} \quad \frac{-2.5}{17} \quad \frac{-1.4}{12} \quad 2.7$$

$$\frac{0.0}{14} \quad \frac{-0.2}{19} \quad \frac{+0.4}{23} \quad \frac{+2.7}{33}$$

$$\frac{+1.0}{33} \quad \frac{-2.5}{27} \quad \frac{-3.2}{22} \quad \frac{-1.3}{12} \quad 4.7$$

$$\frac{+0.6}{13} \quad \frac{-0.2}{19} \quad \frac{-0.2}{24} \quad \frac{+1.2}{33}$$

H. L. Rt.

$$\begin{array}{cccc|c} -\frac{6.0}{33} & -\frac{3.7}{20} & -\frac{0.6}{13} & & 09 \\ -\frac{0.5}{10} & -\frac{0.6}{18} & +\frac{0.7}{18} & +\frac{1.5}{33} & \end{array}$$

$$\begin{array}{cccc|c} -\frac{7.0}{33} & -\frac{3.9}{18} & -\frac{1.0}{12} & & 00 \\ -\frac{0.7}{12} & -\frac{0.6}{15} & +\frac{0.2}{18} & +\frac{1.6}{33} & \end{array}$$

$$\begin{array}{cccc|c} -\frac{5.7}{33} & -\frac{2.3}{18} & -\frac{1.1}{13} & & 09 \\ -\frac{0.7}{12} & -\frac{0.7}{15} & +\frac{0.5}{17} & +\frac{1.6}{33} & \end{array}$$

$$\begin{array}{cccc|c} -\frac{5.2}{33} & -\frac{2.4}{20} & -\frac{1.1}{13} & & 00 \\ -\frac{0.2}{14} & -\frac{0.6}{19} & +\frac{0.8}{23} & +\frac{1.3}{33} & \end{array}$$

$$\begin{array}{cccc|c} -\frac{5.3}{33} & & -\frac{0.4}{9} & & 51 \\ -\frac{0.0}{10} & \frac{0.0}{20} & -\frac{0.2}{25} & +\frac{1.2}{29} + \frac{1.5}{33} & \end{array}$$

$$\begin{array}{cccc|c} -\frac{4.8}{33} & -\frac{3.5}{28} & -\frac{1.2}{15} & -\frac{0.9}{11} & 65 \\ -\frac{0.3}{10} & -\frac{0.5}{22} & +\frac{0.4}{33} & & \end{array}$$

$$\begin{array}{cccc|c} -\frac{2.6}{33} & -\frac{0.2}{17} & -\frac{0.5}{16} & -\frac{0.1}{11} & 0 \\ -\frac{0.5}{10} & -\frac{0.3}{15} & +\frac{1.7}{20} & +\frac{2.0}{33} & \end{array}$$

$$\begin{array}{cccc|c} +\frac{0.6}{33} & +\frac{1.7}{20} & \frac{0.0}{17} & \frac{0.0}{11} & 8 \\ -\frac{0.2}{11} & \frac{0.0}{15} & +\frac{3.5}{21} & +\frac{3.7}{33} & \end{array}$$

$$\begin{array}{cccc|c} +\frac{1.0}{33} & +\frac{2.5}{22} & -\frac{1.4}{17} & -\frac{0.7}{14} & -\frac{0.3}{9} & 2 \\ -\frac{0.4}{9} & -\frac{0.5}{14} & +\frac{3.1}{19} & +\frac{4.2}{26} + \frac{4.3}{33} & \end{array}$$

$$\begin{array}{cccc|c} +\frac{0.2}{33} & +\frac{2.0}{21} & -\frac{1.0}{16} & -\frac{0.8}{13} & 6 \\ -\frac{0.2}{10} & -\frac{0.2}{15} & +\frac{5.1}{25} & +\frac{5.8}{33} & \end{array}$$

$$\begin{array}{cccc|c} -\frac{1.2}{33} & +\frac{1.6}{19} & -\frac{0.8}{15} & & \\ -\frac{0.6}{10} & -\frac{0.2}{16} & +\frac{6.4}{27} & +\frac{6.8}{33} + \frac{7.3}{40} & \end{array}$$

$$\begin{array}{cccc|c} -\frac{5.0}{33} & -\frac{1.2}{17} & -\frac{0.7}{11} & & \\ -\frac{0.4}{10} & -\frac{0.1}{16} & +\frac{7.3}{28} & +\frac{8.0}{33} + \frac{8.1}{40} & \end{array}$$

station

Elev.

189 94.2

+50 -2.3 96.4

188 98.7

+50 +2.8 01.5

+15 -0.7 03.7

187 04.4

+85 +0.9 05.3

+10 -0.9 05.5

+50 -2.4 06.4

186 08.8

+50 -0.9 11.0

185 11.9

$$\begin{matrix} -9.0 & -2.1 & -0.7 \\ 33 & 25 & 12 \end{matrix}$$

1.2

$$\begin{matrix} -0.3 & -1.3 & -7.3 & -7.1 & -5.3 \\ 8 & 13 & 25 & 31 & 33 \end{matrix}$$

$$\begin{matrix} -9.5 & -3.7 & +0.2 & -0.2 \\ 33 & 19 & 12 & 8 \end{matrix}$$

0.0

$$\begin{matrix} -1.0 & -5.7 & -7.4 & -7.9 & -5.7 \\ 15 & 23 & 25 & 33 & 36 \end{matrix}$$

$$\begin{matrix} -7.1 & -3.0 & -0.7 & -1.2 & -0.8 & -0.3 \\ 33 & 27 & 19 & 18 & 14 & 10 \end{matrix}$$

0.0

$$\begin{matrix} -0.9 & -6.9 & -8.3 \\ 14 & 24 & 33 \end{matrix}$$

$$\begin{matrix} -3.6 & -0.8 \\ +3.6 & +0.8 \\ 33 & 12 \end{matrix}$$

$$\begin{matrix} -0.5 & -0.4 \\ 19 & 10 \end{matrix}$$

0.0

$$\begin{matrix} -0.8 & -8.1 & -9.0 \\ 12 & 24 & 33 \end{matrix}$$

$$\begin{matrix} -5.1 & -2.0 & -0.7 & -0.2 \\ 33 & 22 & 18 & 14 \end{matrix}$$

0.0

$$\begin{matrix} -0.8 & -2.0 & -8.7 & -10.3 \\ 10 & 14 & 24 & 33 \end{matrix}$$

$$\begin{matrix} -4.0 & +2.1 & +1.0 & 0.0 \\ 33 & 22 & 19 & 14 \end{matrix}$$

0.0

$$\begin{matrix} -0.6 & -7.3 & -11.0 \\ 11 & 24 & 33 \end{matrix}$$

$$\begin{matrix} -2.8 & +2.2 & +2.4 & -0.4 & -0.4 \\ 33 & 22 & 21 & 16 & 11 \end{matrix}$$

0.0

$$\begin{matrix} -0.9 & -7.7 & -10.1 \\ 12 & 23 & 33 \end{matrix}$$

$$\begin{matrix} -3.4 & +1.7 & +2.3 & -0.4 & -0.0 \\ 33 & 24 & 21 & 16 & 6 \end{matrix}$$

0.0

$$\begin{matrix} -0.8 & -0.4 & 0.0 & -6.4 \\ 9 & 14 & 20 & 33 \end{matrix}$$

$$\begin{matrix} -2.7 & +2.0 & -0.7 \\ 33 & 22 & 16 \end{matrix}$$

0.0

$$\begin{matrix} -0.7 & -0.3 & +2.9 & +2.1 \\ 9 & 14 & 21 & 33 \end{matrix}$$

$$\begin{matrix} -1.7 & +0.8 & -1.1 & -0.7 \\ 33 & 12 & 17 & 14 \end{matrix}$$

0.0

$$\begin{matrix} -0.5 & -0.4 & +4.1 & +3.5 \\ 8 & 14 & 20 & 33 \end{matrix}$$

$$\begin{matrix} -2.9 & -1.1 & -0.8 & -1.6 & -0.7 \\ 33 & 28 & 19 & 16 & 14 \end{matrix}$$

0.0

$$\begin{matrix} -0.4 & -0.6 & +2.3 & +1.9 \\ 8 & 14 & 19 & 33 \end{matrix}$$

$$\begin{matrix} -3.8 & -1.2 & -0.6 \\ 33 & 24 & 14 \end{matrix}$$

0.0

$$\begin{matrix} -0.6 & -0.7 & +1.7 & +2.0 \\ 10 & 14 & 19 & 33 \end{matrix}$$

Station

Elev.

191+95

93.4

+85

-0.2

93.2

+50

+0.7

92.5

191

91.8

+50

0.0

91.6

190

91.6

189+50

+1.0

92.6

L

L

RT

50

$$\begin{array}{r} -10.2 \\ 33 \end{array} \quad \begin{array}{r} -3.6 \\ 23 \end{array} \quad \begin{array}{r} -0.3 \\ 13 \end{array}$$

38

$$\begin{array}{r} -0.3 \\ 13 \end{array} \quad \begin{array}{r} -2.2 \\ 20 \end{array} \quad \begin{array}{r} -1.8 \\ 33 \end{array}$$

$$\begin{array}{r} -9.9 \\ 33 \end{array} \quad \begin{array}{r} -4.4 \\ 18 \end{array} \quad \begin{array}{r} -0.7 \\ 13 \end{array}$$

40

$$\begin{array}{r} -0.4 \\ 13 \end{array} \quad \begin{array}{r} -4.0 \\ 21 \end{array} \quad \begin{array}{r} -4.5 \\ 33 \end{array} \quad \begin{array}{r} -1.8 \\ 35 \end{array}$$

$$\begin{array}{r} -10.2 \\ 33 \end{array} \quad \begin{array}{r} -6.9 \\ 27 \end{array} \quad \begin{array}{r} -1.0 \\ 13 \end{array}$$

40

$$\begin{array}{r} -0.8 \\ 14 \end{array} \quad \begin{array}{r} -3.4 \\ 19 \end{array} \quad \begin{array}{r} -5.0 \\ 29 \end{array} \quad \begin{array}{r} -2.2 \\ 35 \end{array}$$

$$\begin{array}{r} -5.0 \\ 33 \end{array} \quad \begin{array}{r} -1.6 \\ 21 \end{array} \quad \begin{array}{r} -1.0 \\ 14 \end{array}$$

47

$$\begin{array}{r} -0.7 \\ 13 \end{array} \quad \begin{array}{r} -4.4 \\ 24 \end{array} \quad \begin{array}{r} -4.8 \\ 31 \end{array} \quad \begin{array}{r} -2.2 \\ 34 \end{array}$$

$$\begin{array}{r} -5.2 \\ 33 \end{array} \quad \begin{array}{r} -3.2 \\ 26 \end{array} \quad \begin{array}{r} -2.6 \\ 16 \end{array} \quad \begin{array}{r} -0.9 \\ 13 \end{array}$$

48

$$\begin{array}{r} -0.7 \\ 12 \end{array} \quad \begin{array}{r} -2.6 \\ 16 \end{array} \quad \begin{array}{r} -4.5 \\ 21 \end{array} \quad \begin{array}{r} -5.7 \\ 23 \end{array} \quad \begin{array}{r} -5.6 \\ 32 \end{array}$$

$$\begin{array}{r} -5.2 \\ 33 \end{array} \quad \begin{array}{r} -2.7 \\ 16 \end{array} \quad \begin{array}{r} -0.5 \\ 12 \end{array}$$

48

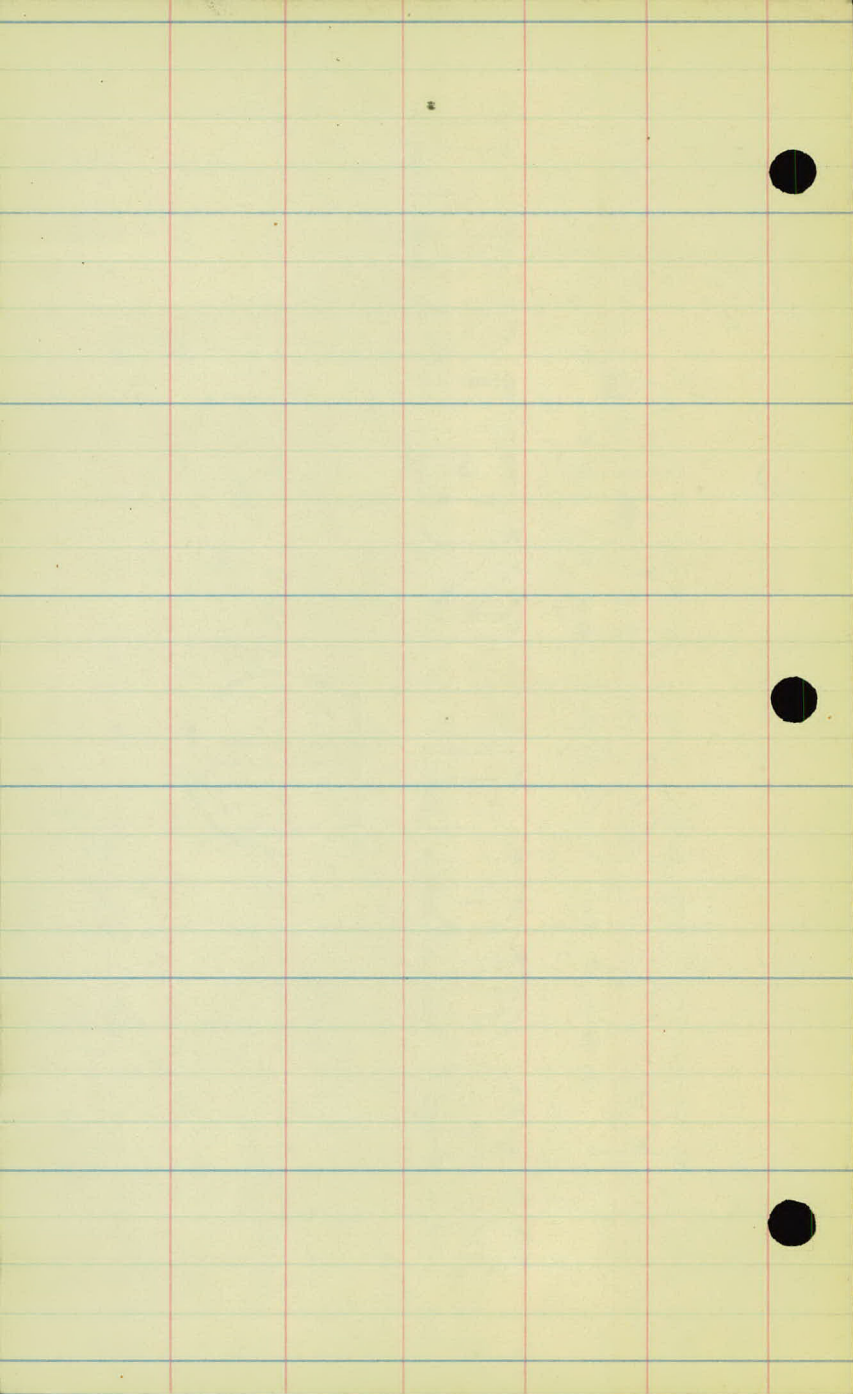
$$\begin{array}{r} -0.8 \\ 11 \end{array} \quad \begin{array}{r} -6.4 \\ 21 \end{array} \quad \begin{array}{r} -6.8 \\ 33 \end{array}$$

$$\begin{array}{r} -9.5 \\ 33 \end{array} \quad \begin{array}{r} -6.2 \\ 33 \end{array} \quad \begin{array}{r} -4.4 \\ 28 \end{array} \quad \begin{array}{r} -2.8 \\ 16 \end{array} \quad \begin{array}{r} -0.7 \\ 12 \end{array}$$

50

$$\begin{array}{r} -0.8 \\ 12 \end{array} \quad \begin{array}{r} -4.1 \\ 17 \end{array} \quad \begin{array}{r} -4.6 \\ 20 \end{array} \quad \begin{array}{r} -7.8 \\ 23 \end{array} \quad \begin{array}{r} -7.8 \\ 29 \end{array}$$

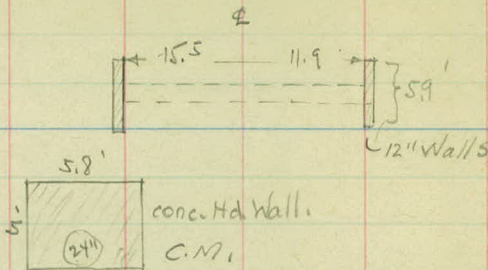
$$\begin{array}{r} -5.3 \\ 33 \end{array}$$



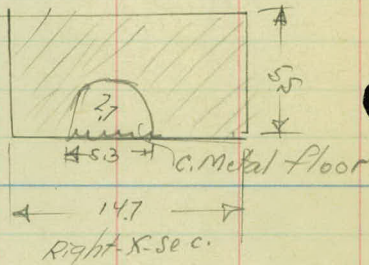
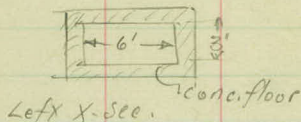
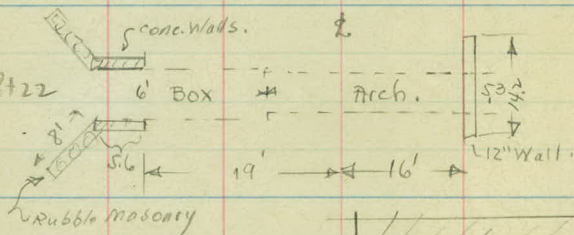
DRAINAGE

Station Present Culv. Recom'd culv.

131+31.5



168+22



190+03

12" x 52' C.M.

EXTDs 29' Rt. & 23' Lt.

Drains Rt.

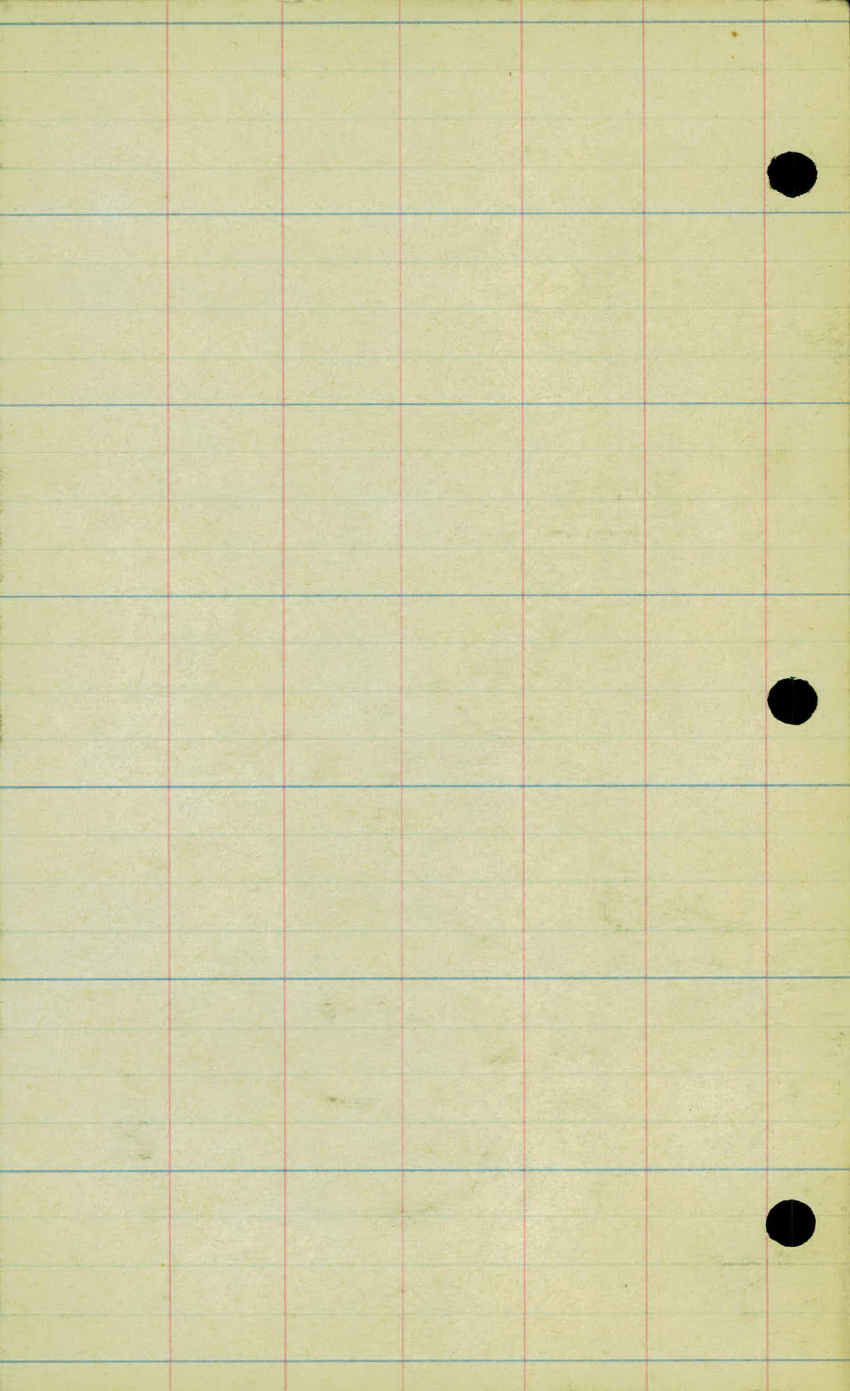
Inv. Elev. 878.5 78.4 77.6
 14 65

Drains Rt.

Inv. Elev. 880.7 80.7 78.3
 14 65

Drains Rt.

Inv. Elev. 882.6 82.6 Intake 83.2
 23



U 2483