

BK. 135

BK. 135

Dr. 16

OFFICE OF COUNTY ENGINEER
RAMSEY CO. MINN.

STADIA Survey

Mounds View Township
From Ditch #1 To.....

Road Acc't. No.....

Date Filed 2-14-46 File.....

Page.....Transit.....Obs. LINDA H.L. Line. C.O. DITCH #1
 Date.....Rec. MOUNDS VIEW TOWNSHIP

*Notes checked
 11-6-44*

OBJECT

AZIMUTH	STADIA	DIS- TANCE	INTERVALS OR VER. ANGLE		READ. ON ROD	DIFF. OF ELEV.	ELEVATION ABOVE DATUM
			Up+ Down-	No. of Int. or Angle			
40.78	204.45	50.98					
63.93							
24" COT.							
72.88							
70.20							
79.05							
15.29							
94.25							
10" BE							

NO. COUNTY LINE RD.

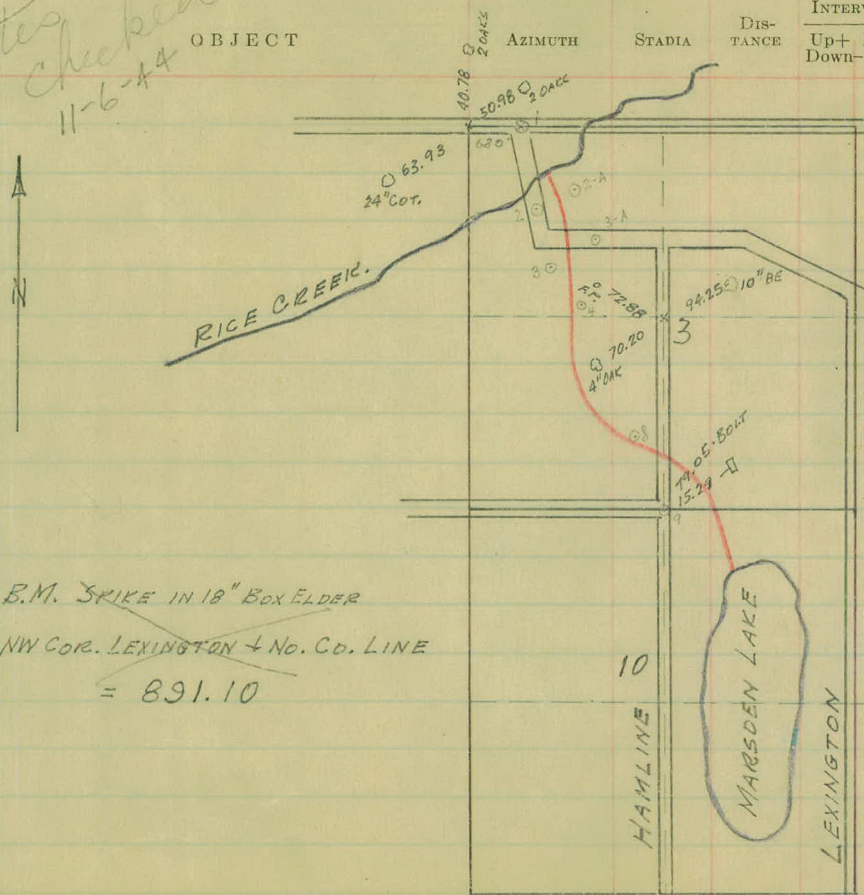
~~B.M. SPIKE IN P.P. S.W. COR.
 "I" OF LEXINGTON
 = 892.36~~

CO. RD. "I"

~~B.M. SPIKE IN 18" BOX ELDER
 NW COR. LEXINGTON + NO. CO. LINE
 = 891.10~~

B.M. SPIKE IN CAP
 S.E. COR. RICE CREEK
 BRIDGE = 885.23

B.M. N.W. COR. M.H. ON
 WATER CONDUIT
 = 892.43



+ 785.96

Page.....1.....Transit.....Obs. LINDAHL.....Line.....D.T.C.H. #1.....

Date.....9-18-44.....Rec.....

OBJECT	AZIMUTH	STADIA	DIS- TANCE	INTERVALS OR VER. ANGLE			READ. ON ROD	DIFF. OF ELEV.	ELEVATION ABOVE DATUM
				Up+ Down-	No. of Int. or Angle	Rod Equiv.			
(NW COR. SEC. 3) 680' E. OF MONT. AT Δ #1 $\pm$ N. CO. LINE & LEX.	NEEDLE = 7° 00' EAST 0°-00" = NORTH					90°-00" = EAST			
Δ #2	170°-30' 15.93 105.10								
H.I. 5.10						891.06			
At Δ #2 $\pm$ LEXINGTON AVE.									885.96 100.00
Δ #1	350°-30' 15.93								
Δ #3	168°-46' 7.72								
$\pm$ RICE CR. BRIDGE & LEX.	350°-23' 3.03								
$\pm$ LEX. & LEX. COR.	170°-37' 4.18						4.70		86.4
Δ #2-A	100°-14' 2.07						8.60		82.5
H.I. 4.75			101.25 101.29		101.27	887.23			
At Δ #2-A									882.48 46.52
Δ #2	280°-14' 2.07						1.29		885.96 100.00
Rd. SHOULDER	322°-35' 3.86						0.40		86.8
" "	315°-00' 3.07						1.50		85.7
" "	301°-00' 2.37						1.90		85.3
" "	276°-40' 1.86						1.80		85.4

Page 2 Transit Obs. LineDate 9-19-19 Rec.

OBJECT	AZIMUTH	STADIA	DIS- TANCE	INTERVALS OR VER. ANGLE			READ. ON ROD	DIFF. OF ELEV.	ELEVATION ABOVE DATUM
				Up+ Down-	No. of Int. or Angle	Rod Equiv.			
887.23									
R.D. SHOULDER	246°40'	184					1.7		85.5
"	222°35'	237					1.7		85.5
"	207°50'	297					1.6		85.6
H.I. 4.83			887.31 ✓						
At Δ 2-A									882.48
Δ 2	280°-14'	2.00					1.35		885.96
G.E.	13°-40'	9.50		+	1/2	+4.75	2.00	+2.7	90.0
F.C.	323°-45'	3.76					2.10		85.2
G.E.	9°-35'	9.00					6.40		80.9
W. BANK DITCH	331°-30'	4.05					8.40		78.9
G.E.	26°-00'	8.20		+	0°-40'	+9.5	5.00	+H.5	91.8
E 5' DITCH	332°-10'	4.13					10.20		77.1
G.E.	24°-40'	7.70					6.40		80.9
E. BANK	333°-10'	4.20					7.90		79.4
G.E.	31°-15'	7.00					6.40		80.9
G.E. SWAMP	346°-00'	4.72					8.00		79.3
" "	0°-40'	5.40					8.40		78.9

Page 3 Transit Obs. Line.Date 9-19-94 Rec.

OBJECT	AZIMUTH	STADIA	DIS- TANCE	INTERVALS OR VER. ANGLE			READ. ON ROD	DIFF. OF ELEV.	ELEVATION ABOVE DATUM
				Up+	No. of Int.	Rod			
G. E.	54°-40'	4.75	4.7	+	2°-00'	16.3	5.00	+11.3	98.6
"	6°-00'	6.30					4.90		82.4
"	30°-30'	5.45					5.70		81.6
"	16°-00'	4.82					6.50		80.8
"	30°-20'	3.20					5.00		82.3
"	8°-10'	4.05					7.5		79.8
"	356°-00'	3.70					8.3		79.0
"	68°-40'	4.55		+	1°-30'	11.9	5.0	+6.9	94.0
E. BANK	335°-20'	3.78					5.8		81.5
G. E.	24°-40'	1.35					6.4		80.9
£ 5 DITCH	334°-00'	3.75					10.2		77.1
W. BANK "	332°-35'	3.77					4.8		82.5
G. E.	113°-10'	1.82		+	4°-27'	14.2	5.0	+9.2	96.5
F. L.	301°-30'	2.25					6.4		80.9
G. E.	226°-25'	0.68					6.0		81.3
W BANK	307°-50'	1.91					6.1		81.2
£ 5' ditch	309° -	1.87					9.2		78.1

Page...⁴...Transit.....Obs.....Line.....

Date...9-19-11.....Rec.....

OBJECT	AZIMUTH	STADIA	DIS- TANCE	INTERVALS OR VER. ANGLE			READ. ON ROD	DIFF. OF ELEV.	ELEVATION ABOVE DATUM
				Up+ Down-	No. of Int. or Angle	Rod Equiv.			
		887.31							
E. Bank.	310°—	1.81					5.3		82.0
G.E.	329°40'	1.40					7.0		80.3
G.E.	353°25'	1.15					6.4		80.9
E. Bank	261°—	1.30					6.7		80.6
± 5' ditch	260°40'	1.35					8.8		78.5
W. Bank.	260°45'	1.39					6.6		80.7
Fc. Line	259°45'	1.69					5.2		82.1
Fc. Line	240°30'	1.80					4.2		83.1
W. Bank.	237°—	1.56					6.4		80.9
± 4' ditch	237°—	1.52					8.1		78.9
E. Bank.	236°45'	1.47					6.5		80.8
E. Bank	196°50'	1.81					6.2		81.1
± 4' ditch	198°—	1.85					8.1		78.9
W. Bank	198°50'	1.86					6.2		81.1
Fc. Line	212°10'	2.57					4.7		82.6
Fc. Line	194°50'	3.66					3.2		84.1

Page 6 Transit Obs. Line DITCH #1
 Date 9-19-14 Rec.

OBJECT	AZIMUTH	STADIA	DIS- TANCE	INTERVALS OR VER. ANGLE			READ. ON ROD	DIFF. OF ELEV.	ELEVATION ABOVE DATUM
				Up+	No. of Int. Down- or Angle	Rod Equiv.			
W. Bank	184°—	3.37					3.8		83.5
E. 4' ditch - at culv.	181°25'	2.36					7.8		79.5
No. End 30" C.M. Culv.	182°05'	2.33					7.9		79.4
So. " " " " 16' Long	179°30'	2.45					7.7		79.6
E. Bank	181°—	2.33					5.1		82.2
G. E.	172°10'	2.18					3.7		83.6
G. E.	161°30'	1.82		+	2°-00'+6.3		5.0	+1.3	88.6
G. E.	159°50'	0.88		+	3°25'+5.3		5.0	+0.3	87.6
Needle Reading	7°00' East								
S. E. Cor. Bridge	323°45'	4.04							
S. Bank of Rice Creek	323°55'	4.00					8.7		78.6
S. " " " "	328°—	3.90					6.6		80.7
S. Edge Water ..	327°50'	3.96					9.6		77.7
E. Bank Rice Creek	332°40'	4.38					8.4		78.9
E. Edge Water ..	330°15'	4.36					9.6		77.7
W. BANK RICE "	332°-10'	5.10					5.8		81.5
" " "	328°-00'	4.30					9.6		77.7

OBJECT	AZIMUTH	STADIA	DIS- TANCE	INTERVALS OR VER. ANGLE		READ. ON ROD	DIFF. OF ELEV.	ELEVATION ABOVE DATUM
				Up+ Down-	No. of Int. or Angle			
✓ RICE CREEK - W.S. 18' WIDE X 31'	324°-50'	4.20				9.60		877.70
N.E. COR. BRIDGE	325°-30'	4.26						
	H.I. 4.78	106.87			892.83			
AT Δ 3								888.05 102.09
Δ 2	348°-46'	7.72				6.87		885.96 100.00
Δ 4	149°-19'	6.82				4.40		888.43
RD. SHOULDER	8°-50'	3.54				6.90		85.9
F.L.	8°-45'	3.74				8.90		83.9
W. BANK DITCH	13°-45'	4.35				11.1		81.7
✓ " "	14°-00'	4.40				13.0		79.8
E " "	15°-00'	4.42				11.1		81.7
✓ RD. OVER CULV.	25°-25'	3.90				7.0		85.8
E. BANK	23°-45'	4.20				10.7		82.1
INT. DITCH FROM N.E.	24°-00'	4.18				12.2		80.6
RD. SHOULDER	24°-40'	4.02				7.6		85.2
N. END 30" C.M.	23°-45'	4.10				12.6		80.2

Page. 8 Transit Obs. Line.
 Date. 9-19-44 Rec.

OBJECT	AZIMUTH	STADIA	DIS- TANCE	INTERVALS OR VER. ANGLE			READ. ON ROD	DIFF. OF ELEV.	ELEVATION ABOVE DATUM
				Up+	No. of Int.	Rod			
				Down-	or Angle	Equiv.			
N. END 2ND 30" C.M.	24°-15'	4.10					12.6		80.2
F.L. W. 30" C.M.	36°-40'	3.74					12.5		80.3
" E " "	27°-05'	3.74					12.5		80.3
Δ 3-A	54°-09'	6.16					5.39		887.44 104.48
G.E.	186°-15'	0.70					4.6		88.2
"	177°-30'	0.72					7.2		85.6
"	120°-00'	4.60					3.0		89.8
"	183°-40'	1.65					7.6		85.2
"	117°-10'	5.80				+ 1°-23'	5.0	+ 9.0	901.8
"	122°-30'	4.40					7.3		85.5
"	187°-40'	1.64					5.4		87.4
E. SIDE 1 st DITCH - N. & S.	129°-20'	3.55					9.2		83.6
E. " " "	129°-20'	3.54					10.2		82.6
W. " " "	129°-40'	3.53					9.2		83.6
G.E.	197°-40'	2.62					4.3		88.5
"	193°-00'	2.58					7.6		85.2
E. SIDE 6' DITCH	144°-20'	2.88					9.6		83.2

Page 9. Transit. Obs. Line.

Date. Rec.

OBJECT	AZIMUTH	STADIA	892.83 Dis- TANCE	INTERVALS OR VER. ANGLE			READ. ON ROD	DIFF. OF ELEV.	ELEVATION ABOVE DATUM
				Up+	No. of Int. or Angle	Rod Equiv.			
☒ DITCH - 6'	144°-40'	2.85					12.5		80.3
BEG. 1' E & W. DITCH	184°-50'	3.10					8.7		84.1
G. E.	169°-45'	3.13					9.3		83.5
1' E. & W. DITCH	169°-45'	3.14					10.1		82.7
☒ 6' DITCH	113°-20'	1.82					13.0		79.8
E. SIDE "	113°-20'	1.87					10.5		82.3
G. E.	152°-45'	3.45'					9.7		83.1
INT. 1' E & W. DITCH & 6' DITCH	152°-45'	3.47					12.1		80.7
S' W. 6' DITCH	137°-15'	2.30					10.2		82.6
W. BANK 1' DITCH	104°-00'	2.75					10.3		82.5
☒ " "	104°-06'	2.76					10.9		81.9
G. E.	160°-15'	1.90					9.4		83.4
"	99°-00'	4.20					9.0		83.8
"	100°-00'	0.29					8.5		84.3
"	97°-20'	5.20		+	1/2	+2.6	0.8	+1.8	94.6
"	97°-20'	1.00					9.7		83.1
"	81°-30'	5.20		+	1/2	+2.6	1.3	+1.3	94.1

Page 10 Transit Obs. Line DITCH #1
 Date Rec.

OBJECT	AZIMUTH	892.83 STADIA DIS- TANCE	INTERVALS OR VER. ANGLE			READ. ON ROD	DIFF. OF ELEV.	ELEVATION ABOVE DATUM
			Up+	No. of Int.	Rod			
G.E.	52°-30'	1.02				9.8		83.0
± 6' DITCH.	53°-40'	2.12				12.6		80.2
G.E.	78°-00'	4.50				7.4		85.4
"	24°-45'	1.65				8.6		84.2
"	66°-30'	2.95				10.4		82.4
± 1' DITCH - N. & S.	66°-30'	2.94				11.3		81.5
G.E.	12°-20'	1.60				6.3		86.5
E. SIDE 6' DITCH	52°-00'	2.18				10.6		82.2
G.E.	5°-30'	3.25				7.6		85.2
"	11°-15'	3.30				8.60		84.2
E. BANK 6' DITCH + TOE K.P.	27°-40'	3.75				9.3		83.5
G.E. W. 6' DITCH	26°-25'	3.62				9.5		83.3
± 6' DITCH	27°-50'	3.60				12.8		80.0
± 1' DITCH. N. & S.	38°-00'	4.26				11.5		81.3
G.E.	38°-10'	4.27				10.5		82.3
"	55°-30'	5.92				9.0		83.8

Page 11 Transit Obs Line

Date Rec

OBJECT	AZIMUTH	STADIA	DIS- TANCE	INTERVALS OR VER. ANGLE		READ. ON ROD	DIFF. OF ELEV.	ELEVATION ABOVE DATUM
				Up+	No. of Int. Down- or Angle			
H.15.24 At Δ 3-A & RD	106.72 106.77 109.75 892.71							887.47 889.05 882.04
Δ 3	234°-09	6.16				4.68		
G.E.	289°-00'	3.20				8.8		83.9
± 24' RD.	269°-00	2.34				6.8		85.9
TOE "	273°-40	2.32				10.2		82.5
G.E.	308°-15'	3.20				1.1		91.6
"	308°-30'	2.50				9.2		83.5
TOE RD.	289°-15	0.55				9.9		82.8
G.E.	308°-30	1.90				10.0		82.7
± 1' DITCH SW to NE.	308°-30'	1.89				11.1		81.6
± 24' RD.	269°-30'	0.50				6.2		86.5
± 1' DITCH.	349°-10'	2.63				10.3		82.4
G.E.	349°-10'	2.66				9.5		83.2
" COR. CORN. TO SE.	147°-30	0.50				4.4		88.3
G.E.	346°-40	3.00				6.0		86.7
"	350°-30	3.72				6.4		86.3
"	354°-00'	3.75				9.5		83.2
"	88°-50'	1.00				4.0		88.7

Page...12...Transit.....Obs.....Line.....
 Date.....Rec.....

OBJECT	AZIMUTH	STADIA	892.71 DIS- TANCE	INTERVALS OR VER. ANGLE		READ. ON ROD	DIFF. OF ELEV.	ELEVATION ABOVE DATUM
				Up+ Down-	No. of Int. or Angle	Rod Equiv.		
G. E.	348°30'	5.04				4.0		88.7
E DRAW	350°30'	4.65				9.4		83.3
N. & S. FENCE LINE	2°00'	4.97				2.2		90.5
FENCE COR.	2°50'	4.05				9.4		83.3
FLOW LINE 8" VIT. TILE	3°25'	3.70				10.4		82.3
G. E.	3°25'	3.67				8.00		84.7
" "	3°00'	3.03				8.90		83.8
" " EDGE PLOWED FIELD	6°00'	3.03				6.9		85.8
G. E.	9°30'	1.62				6.0		86.7
" "	0°00'	1.62				8.3		84.4
" "	342°00'	1.70				10.0		82.7
S.W. & N.E. FENCE LINE	331°00'	2.07				10.1		82.6
G. E.	303°30'	1.50				10.2		82.5
" " HAY MEADOW	329°40'	.88				9.7		83.0
G. E. EAST SIDE MEADOW	21°30'	.72				4.5		88.2
E RD. DITCH	56°00'	.35				6.7		86.0

Page 13 Transit Obs. Line Ditch #1
 Date 9-20-44 Rec.

OBJECT	AZIMUTH	STADIA	DIS- TANCE	INTERVALS OR VER. ANGLE		READ. ON ROD	DIFF. OF ELEV.	ELEVATION ABOVE DATUM
				Up+ Down-	No. of Int. or Angle	Rod Equiv.		
	H.I. 4.61	^{107.08} 107.14						893.07
ATA 4								888.46 102.50
Δ 3	329° 19'	6.82				5.05		102.09
Δ 5	157° 11'	5.96				1.73		105.28
9-20-44	H.I. 4.63							893.09
ATA 4								888.46
Δ 5	157° 11'	5.96						
EDGE FIELD	32° 00'	3.15			+ 2° 30'	5.0	+ 8.7	01.8
G.E.	5° 10'	2.68				4.0		89.1
G.E.	1° 30'	2.70				7.8		85.3
E. Bank 1' ditch	345° 15'	2.80				9.9		83.2
± 1' ditch	345° -	2.80				10.6		82.5
E Bank 6' ditch	326° 30'	3.25				10.2		82.9
± 6' ditch	325° 50'	3.29				12.9		80.2
" " "	309° 10'	2.36				12.8		80.3
E. Bank 6' ditch	309° 10'	2.32				10.2		82.9

Page. 14. Transit. Obs. Line. DITCH #1
Date. 9-20-11 Rec.

OBJECT	893.09		Dis- TANCE	INTERVALS OR VER. ANGLE			READ. ON ROD	DIFF. OF ELEV.	ELEVATION ABOVE DATUM
	AZIMUTH	STADIA		Up+ Down-	No. of Int. or Angle	Rod Equiv.			
1' ditch	336° 30'	1.75					10.1		83.0
G.E.	337° 10'	1.75					9.4		83.7
G.E.	1° 30'	1.59					7.9		85.2
G.E.	10° 10'	1.60					4.5		88.6
G.E.	45° 10'	2.34		+	2° 04'	+8.4	5.0	+3.4	96.5
G.E.	105° 15'	1.70		+	1° 12'	+3.6	5.0	-1.4	91.7
G.E.	184° —	1.6					5.4		87.7
G.E.	234° 10'	2.8					8.3		84.8
1' ditch	234° 10'	2.9					9.1		84.0
E. Bank 6' ditch	255° 45'	1.87					9.3		83.8
6' ditch	255° 45'	1.91					12.5		80.6
" "	226° 30'	2.60					12.3		80.8
E. Bank 6' ditch	225° 15'	2.56					8.7		84.4
1' ditch	201° —	1.69					8.3		84.9
G.E.	200° —	1.69					6.5		86.6
G.E.	152° 45'	1.84					6.5		86.6
G.E. 4 draw	122° 30'	3.00					5.0		88.1

Page 15 Transit Obs. Line Ditch #1
 Date 9-20-11 Rec.

OBJECT	AZIMUTH	STADIA	893.09 DIS- TANCE	INTERVALS OR VER. ANGLE			READ. ON ROD	DIFF. OF ELEV.	ELEVATION ABOVE DATUM
				Up+ Down-	No. of Int. or Angle	Rod Equiv.			
E. & W. Fc. Line	146°—	4.60					3.6		89.5
G.E.	149°20'	4.10					5.7		87.4
Fc. Line	170°—	3.88					7.6		85.5
Fc. Cor. to E. & So	187°15'	3.89					8.1		85.0
G.E.	191°—	3.68					8.0		85.1
4 1' ditch	188°50'	3.68					8.8		84.3
E. Bank 6" ditch	207°20'	4.03					8.7		84.4
4 6' ditch	208°—	4.03					12.0		81.1
G.E.	308°20'	2.42					10.1		83.0
" "	298°30'	3.20					9.4		83.7
" "	292°10'	4.20					7.6		85.5
" "	291°—	4.47					2.5		90.6
" "	280°—	4.18					0.0		93.1
" "	280°—	4.06					4.3		88.8
" "	281°10'	3.30					8.3		84.8
" "	286°—	1.98					10.2		82.9

Page 16 Transit Obs. Line Ditch # 1
 Date 9-20-91 Rec.

AT Δ #4 OBJECT	893.09 AZIMUTH	STADIA	DIS- TANCE	INTERVALS OR VER. ANGLE			READ. ON ROD	DIFF. OF ELEV.	ELEVATION ABOVE DATUM
				Up+	No. of Int.	Rod			
N COR. DITCH	250°10'	2.09					9.7		83.4
E 1' DITCH TO WEST	249°30'	2.04					12.1		81.0
G.E.	254°40'	3.08					8.6		84.5
E 1' DITCH E+W.	254°30'	3.06					9.5		83.6
G.E.	257°10'	4.10					6.0		87.1
E 1' DITCH E+W.	257°-	4.10					6.9		86.2
G.E.	260°15'	4.20					4.3		88.8
"	258°-	5.03					6.0		87.1
E 1' DITCH E+W.	257°50'	5.03					6.5		86.6
G.E.	260°40'	5.25					4.0		89.1
" "	260°10'	6.00					3.4		89.7
" "	259°15'	6.45					1.5		91.6
" "	258°45'	6.24					5.0		88.1
" "	255°15'	6.16					5.4		87.7
" "	254°40'	6.35					3.8		89.3
END E+W. DITCH	256°20'	5.65					6.6		86.5
G.E.	253°10'	4.20					5.48		87.6

Page 17 Transit Obs. Line

Date Rec.

OBJECT	AZIMUTH	STADIA	DIS- TANCE	INTERVALS OR VER. ANGLE		READ. ON ROD	DIFF. OF ELEV.	ELEVATION ABOVE DATUM
				Up+ Down-	No. of Int. or Angle	Rod Equiv.		
								893.09
C. E.	256°20'	4.63				5.6		87.5
" "	252°45'	4.22				5.5		87.6
" "	243°30'	4.37				3.8		89.3
" "	240°45'	7.06				6.5		86.6
" "	234°40'	3.40				8.5		84.6
" "	225°15'	2.75				9.4		83.7
E. & W. FENCE LINE	207°30'	4.33				8.2		84.9
" " " "	215°—	4.65				8.0		85.1
" " " "	225°10'	5.45				6.2		86.9
" " " "	232°45'	6.40		+ 1/2	+3.20	0.6	+2.6	95.7
G. E.	225°15'	6.75		+ 1	+6.7	2.2	+5.5	98.6
" "	217°15'	7.52		+ 1	+7.5	3.0	+4.5	97.6
" "	214°30'	7.06				2.0		91.1
" "	210°40'	6.75				8.0		85.1
" "	202°30'	6.32				9.10		84.0
" "	203°—	5.13				6.5		84.6
E. & W. DITCH N. & S.	201°40'	5.20				11.3		81.8

Page 18 Transit Obs. Line DITCH #1
 Date Rec.

OBJECT	893.09		DIS- TANCE	INTERVALS OR VER. ANGLE		READ. ON ROD	DIFF. OF ELEV.	ELEVATION ABOVE DATUM
	AZIMUTH	STADIA		Up+ Down-	No. of Int. or Angle	Rod Equiv.		
G. E.	260° 45'	5.25				8.1		85.0
" "	192° -	5.10				8.2		84.9
N & S. FENCE LINE	186° 10'	5.00				7.8		85.3
	H.I. 4.75	110.13 110.17	110.15	896.11	-			891.36 105.40
AT Δ 5								
Δ 4	337° 11'	5.96				7.67		102.48
Δ 6	212° 40'	7.25				5.62		890.49 104.53
G. E.	273° 15'	1.57				10.2		85.9
" ✓	280° 00'	0.33				8.4		87.7
"	92° 15'	0.38				2.4		93.7
"	162° 15'	1.25				1.5		94.6
Δ DRAW	203° 45'	1.44				8.2		87.9
G. E.	229° 00'	2.14				8.9		87.2
N & S. F. L.	241° 00'	3.20				9.4		86.7
" "	226° 00'	3.92				8.8		87.3
G. E.	224° 30'	3.78				6.8		89.3

Page 19 Transit Ditch # 1 Obs. Line
 Date 9-20-44 Rec.

OBJECT	<u>896.11</u>		DIS- TANCE	INTERVALS OR VER. ANGLE			READ. ON ROD	DIFF. OF ELEV.	ELEVATION ABOVE DATUM
	AZIMUTH	STADIA		Up+ Down-	No. of Int. or Angle	Rod Equiv.			
G.E.	213°-00'	3.20					3.1		93.0
"	199°-30'	2.86		+	1/2	+1.4	1.0	+0.4	96.5
"	186°-30'	2.74					1.1		95.0
EDGE POTHOLE	173°-30'	2.41	✓				7.4		88.7
" "	169°-45'	3.45	✓				7.2		88.9
" "	160°-50'	3.30	✓				7.2		88.9
" "	165°-15'	3.10	✓				8.3		87.8
EDGE "	167°-30'	2.58	✓				7.6		88.5
G.E.	145°-40'	3.30	✓	+	0°-55'	+5.3	5.0	+0.3	96.4
£ DRAW	182°-00'	1.86					6.6		89.5
£ OLD ROAD	149°-00'	4.60		+	1°-20'	+10.7	5.00	+5.7	01.8
" " "	164°-30'	4.76		+	1°-05'	+9.4	5.00	+4.4	00.5
" " "	175°-45'	5.55		+	0°-25'	+4.0	5.00	-1.0	95.1
£ RIDGE	175°-45'	4.70		+	1/2	+2.4	0.20	+2.2	98.3

Page 20 Transit Ditch #1 Obs. Ditch #1 Line Ditch #1
 Date 9-20-49 Rec.

OBJECT	AZIMUTH	STADIA	DIS- TANCE	INTERVALS OR VER. ANGLE			READ. ON ROD	DIFF. OF ELEV.	ELEVATION ABOVE DATUM
				Up+	No. of Int. Down- or Angle	Rod Equiv.			
H.I. = 4.96	107.49 107.60	107.55	895.51						
AT Δ 6									890.55 104.59
Δ 5	32°-40'	7.25					4.20		891.36 105.70
Δ 7	106°-34'	8.05					3.95		891.56 105.60
G.E.	354°-10'	5.20					10.9		84.6
At WASHOOT OLD ROAD AT EAST CR.	95°-00'	3.46	✓				5.9		89.6
✓ DITCH AT OLD ROAD XING	99°-10'	3.29					11.5		84.0
✓ " "	102°-00'	3.20					5.7		89.8
✓ G.E.	341°-10'	5.55					10.4		85.1
✓ NE COR. WOODS	336°-15'	5.80					4.1		91.4
✓ OLD RD. AT BALANCE	118°-35'	2.86					1.4		94.1
✓ N. & S. FENCE	113°-10'	1.31					0.6		94.9
✓ G.E.	339°-20'	4.25					8.5		87.0
✓ OLD Creek	347°-30'	4.40					12.7		82.8
✓ G.E.	353°-40'	4.50					10.8		84.7
6' ditch	355°-25'	4.30					13.7		81.8
Δ 6' ditch	353°-50'	3.00					14.0		81.5

Page 21 Transit.....Obs.....Line Ditch #1
 Date 9-22-11 Rec.....

OBJECT	AZIMUTH	STADIA	DIS- TANCE	INTERVALS OR VER. ANGLE			READ. ON ROD	DIFF. OF ELEV.	ELEVATION ABOVE DATUM
				Up+ Down-	No. of Int. or Angle	Rod Equiv.			
		895.51							
✓ 4' 6" Ditch	353° 50'	2.85					12.1		83.4
✓ 4' 3" old creek	350° 30'	2.90					12.9		82.6
✓ G.E.	348° —	2.90					11.0		84.5
✓ " G.E.	327° 15'	3.26					9.6		85.9
✓ S.E. Cor. Woods	314° —	2.90					9.5		91.0
✓ G.E.	323° —	2.57					9.2		86.3
✓ G.E.	350° 40'	2.24					10.7		84.8
✓ 4' old creek 3' wide	356° 40'	2.30					12.9		82.6
✓ 4' ditch	5° 30'	2.40					12.5		83.0
✓ 4' ditch + N. & S. Fe. Line	36° —	1.90					12.5		83.0
✓ G.E.	29° 45'	1.68					11.1		84.4
✓ 4' old Creek 3' wide	26° —	1.55					12.6		82.9
✓ G.E.	357° 50'	1.23					10.3		85.2
✓ G.E.	312° 20'	1.64					9.2		86.3
✓ G.E.	299° 30'	2.03					9.5		91.0
G.E.	286° 30'	3.00				+ 1° 27'	5.0	+ 2.6	98.1

Page 22 Transit.....Obs.....Line Ditch #1Date 9-20-44 Rec.....

OBJECT	AZIMUTH	STADIA	DIS- TANCE	INTERVALS OR VER. ANGLE			READ. ON ROD	DIFF. OF ELEV.	ELEVATION ABOVE DATUM
				Up+	No. of Int.	Rod			
				Down-	or Angle	Equiv.			
✓ E + W. Fe. Line G.E.	264°—	262			+ 2°10'	+9.9	5.0	+4.9	900.4
✓ G.E.	255°—	242			+ 2°25'	+10.2	5.0	+5.2	900.7
✓ G.E.	243°—	4.8					1.0		894.5
✓ Δ in Fe. Line	44°40'	3.0					8.5		87.0
✓ Fe. Line G.E.	71°45'	8.2					9.1		86.4
✓ E 3' old Creek	68°30'	14.0					12.0		83.5
✓ G.E.	64°30'	1.89					10.3		85.2
✓ E 3' ditch	64°45'	2.00					12.2		83.3
✓ G.E.	67°—	2.41					9.9		85.6
✓ G.E.	62°45'	2.85					6.5		89.0
✓ Toe of Old Rd.	93°40'	3.33					8.9		86.6
✓ N. End. of 24" Vit. Colv.	97°10'	3.18					14.4		81.1
✓ So. End " " " "	97°45'	3.40					14.3		81.2
✓ Toe of Old Rd.	100°30'	3.08					10.3		85.2
G.E.	93°30'	1.97					10.3		85.2
G.E.	88°—	2.00					10.9		84.6

OBJECT	AZIMUTH	STADIA	DIS- TANCE	INTERVALS OR VER. ANGLE		READ. ON ROD	DIFF. OF ELEV.	ELEVATION ABOVE DATUM
				Up+ Down-	No. of Int. or Angle			
		H.I. = 4.78	110.38 110.25		896.28	-		891.50 105.54
AT Δ 7								
Δ 6	286°-34'	8.05				5.66		104.59
Δ 8	140°-43'	9.17				8.48		887.80 101.44
✓ OLD RD. IN CUT ^{10' WIDE}	273°-30'	5.75		+	0°-46' + 6.7	5.0	+1.7	98.0
✓ G.E.	270°-45'	5.67		+	1°-40' + 16.5	5.0	+11.5	907.8
✓ "	281°-20'	4.95				5.7		890.6
✓ TOE SLOPE OLD RD	288°-00'	4.78				10.1		86.2
✓ " " "	293°-10'	4.62				10.2		86.1
✓ " " "	303°-30'	4.35				6.2		90.1
✓ G.E. HILL	326°-15'	4.10		+	1°-35' + 11.3	5.0	+6.3	902.6
✓ " "	344°-40'	2.38		+	3°-00' + 12.4	5.0	+7.4	903.7
✓ " "	323°-30'	2.25		+	1°-30' + 5.9	5.0	+0.9	897.2
✓ " "	304°-10'	2.45				5.5		90.8
✓ " "	296°-00'	2.56				9.4		87.2
✓ " "	286°-00'	0.85				9.6		87.2

Page 29 Transit Ditch #1 Obs. Line
 Date 9-20-99 Rec.

OBJECT	AZIMUTH	STADIA	DIS- TANCE	INTERVALS OR VER. ANGLE			READ. ON ROD	DIFF. OF ELEV.	ELEVATION ABOVE DATUM
				Up+	No. of Int. Down- or Angle	Rod Equiv.			
		<u>896.28</u>							
✓ G. E.	306° 45'	0.72					5.0		91.3
✓ G. E. HILL	39° 30'	1.38		+	3° 15'	+7.8	5.0	+2.8	99.1
✓ G. E.	87° 40'	1.90					2.9		93.4
✓ " "	101° 30'	1.16					5.5		90.8
✓ EDGE SWAMP WATER SUR.	124° 00'	0.79					9.7		86.6
✓ " "	114° 00'	2.88					9.2		87.1
✓ G. E.	105° 40'	3.55					5.4		90.9
✓ " "	103° 30'	5.32					4.2		92.1
✓ N. END 2' DITCH G. E.	98° 00'	6.45					7.2		89.1
✓ N. & S. FENCE LINE G. E.	100° 00'	6.64					6.2		90.1
✓ E 2' DITCH	103° 30'	6.30					7.7		88.6
✓ G. E.	103° 30'	6.34					5.6		90.7
✓ E HAMLINE AVE 26' TOP	106° 40'	7.16					3.3		93.0
✓ N. & W. FENCE COR.	112° 30'	7.14					7.0		89.3
✓ E & W. FENCE LINE G. E.	113° 30'	6.88					9.4		86.9
✓ END 2' DITCH E	108° 10'	6.20					8.7		87.6
✓ G. E.	108° 10'	6.24					8.0		88.3

Page 25 Transit Obs. Line D.I.T.C.H. #1
 Date 9-20-44 Rec.

OBJECT	AZIMUTH	STADIA	DIS- TANCE	INTERVALS OR VER. ANGLE			READ. ON ROD	DIFF. OF ELEV.	ELEVATION ABOVE DATUM
				Up+ Down-	No. of Int. or Angle	Rod Equiv.			
✓ G.E.	108°45'	5.45	896.28				9.4		86.9
✓ " "	106°00'	5.35					5.6		90.7
✓ ∇ old creek	227°36'	4.6					10.0		86.3
✓ G.E. Flat	223°30'	1.14					9.9		86.4
✓ G.E.	224°10'	1.71					11.1		85.2
✓ ∇ 6' ditch	224°10'	1.80		-	$\frac{1}{2}$	-0.9	13.2	-14.1	82.2
✓ ∇ 6' ditch	261°40'	2.25		-	$\frac{1}{2}$	-1.1	13.3	-14.4	81.9
✓ G.E.	261°40'	2.21					11.2		85.1
✓ G.E.	273°—	1.70					10.2		86.1
✓ ∇ old creek	287°20'	1.46					10.5		85.8
✓ " " "	289°10'	3.11					11.7		84.6
✓ G.E.	282°10'	3.30					10.3		86.0
∇ 6' ditch into old creek	281°45'	3.40		-	$\frac{1}{2}$	-1.7	12.7	-14.4	81.9
Check Azimuth top of pole	Top of Hill	200°20'							Arms plant

Page 27 Transit Obs. Line DITCH #1
 Date 9-21-44 Rec.

OBJECT	AZIMUTH	896-28 STADIA	Dis- TANCE	INTERVALS OR VER. ANGLE			READ. ON ROD	DIFF. OF ELEV.	ELEVATION ABOVE DATUM
				Up+	No. of Int. Down- or Angle	Rod Equiv.			
✓ G. E.	199°45'	4.14					1.9		94.4
✓ " "	187°45'	4.06					9.6		86.7
✓ # 6' DITCH	153°30'	5.22					14.0		82.3
✓ G. E.	154°50'	5.22					9.3		87.0
✓ " "	168°30'	5.12					9.8		86.5
✓ " "	174°00'	5.14					5.0		91.3
✓ " "	189°20'	5.34		+	1/2	+2.7	2.7	0.0	96.3
✓ " "	183°30'	6.25		+	1/2	+3.1	2.0	+1.1	97.4
✓ " "	171°20'	6.10					2.6		93.7
✓ " "	158°30'	6.10					7.2		89.1
✓ " "	150°30'	6.35					10.2		86.1
✓ CREEK	160°00'	0.44					10.8		85.5
✓ G. E.	163°00'	0.55					8.6		87.7
✓ " "	176°30'	1.45					9.0		87.3
✓ F. L. E. & W.	149°20'	3.10					9.0		87.3
✓ G. E.	131°30'	2.45					9.5		86.8
✓ # old creek	117°—	2.90					10.1		86.2

Page. 28.....Transit.....Obs.....Line. DITCH #1
 Date. 9-21-44.....Rec.....

OBJECT	896.28		DIS- TANCE	INTERVALS OR VER. ANGLE			READ. ON ROD	DIFF. OF ELEV.	ELEVATION ABOVE DATUM
	AZIMUTH	STADIA		Up+ Down-	No. of Int. or Angle	Rod Equiv.			
✓ Old Creek	116° 10'	3.90					11.0		85.3
✓ G.E.	121° 30'	3.95					9.6		86.7
✓ E + W. Fe Line G.E.	127° 20'	4.44					10.2		86.1
✓ " " " "	120° -	5.41					10.0		86.3
100.27 106.32 H.I. = 443 892.26 -									
AT Δ 8									887.83
Δ 7	320° 43'	9.17					0.78		<u>891.50</u>
Δ 9	171° 17'	8.95					4.48		<u>887.78</u>
✓ 2.6' DITCH	297° 20'	2.36					10.2		<u>887.83</u> 82.1
✓ " " " "	282° 10'	1.26					10.5		81.8
✓ G.E. WEST BANK U DITCH	280° 30'	1.29					6.4		85.9
✓ G.E.	272° 00'	1.40					5.7		86.6
✓ G.E.	262° 00'	2.62					5.5		86.8
✓ " "	260° 30'	3.92					4.5		87.8
✓ " "	258° 30'	4.58		+	1/2	+2.3	0.2	+2.1	94.4
✓ " "	250° 15'	4.66					3.6		88.7

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Date 9-21-44 Rec.

OBJECT	AZIMUTH	STADIA	DIS- TANCE	INTERVALS OR VER. ANGLE			READ. ON ROD	DIFF. OF ELEV.	ELEVATION ABOVE DATUM
				Up+	No. of Int.	Rod Equiv.			
✓ G.E. EDGE POT HOLE	242°40'	4.10					4.8		87.5
✓ " " IN POT HOLE	239°50'	4.40					5.5		86.8
✓ " " EDGE POT HOLE	233°30'	4.43					4.8		87.5
✓ " " IN POT HOLE	233°00'	4.50					5.9		86.4
✓ G.E.	227°30'	4.03					5.0		87.3
✓ E.BEG. 1' DITCH	226°50'	4.07					6.0		86.3
✓ G.E. N.SIDE 1' DITCH.	221°50'	2.60					5.6		86.7
✓ E. 1' DITCH	221°10'	2.60					6.8		85.5
✓ G.E. N. EDGE 1' DITCH	207°00'	1.38					6.6		85.7
✓ E. END OF 1' DITCH	206°00'	1.39					7.2		85.1
✓ FLOW LINE 30' C.M. OUL. N. END	211°00'	0.76					9.05		883.21
✓ " " " " " " S. "	199°50'	0.89					9.73		882.53
→ A HUB #8. A.	226°28'	5.90					2.42		889.84 103.88
✓ EDGE POT HOLE	222°10'	4.85					5.80		86.5
✓ G.E.	210°20'	3.60					5.90		86.4
✓ " "	184°10'	2.48					6.5		85.8
G.E. WEST BANK 6' DITCH	175°30'	2.27					6.3		86.0

Page 30.....Transit.....Obs.....Line.....DITCH #1
 Date.....9-21-44.....Rec.....

OBJECT	AZIMUTH	STADIA	DIS- TANCE	INTERVALS OR VER. ANGLE			READ. ON ROD	DIFF. OF ELEV.	ELEVATION ABOVE DATUM
				Up+ Down-	No. of Int. or Angle	Rod Equiv.			
✓ BOTTOM 6' DITCH	175°30'	2.27					9.6		82.7
✓ G.E.	190°10'	8.1					7.0		85.3
✓ G.E.	131°10'	9.9					2.7		89.6
✓ & Hamline Ave	117°40'	1.30					1.6		90.7
✓ " " "	153°20'	2.64					2.6		89.7
✓ G.E.	158°30'	2.54					5.7		86.6
✓ " "	170°30'	2.41					6.9		85.4
✓ Bottom 6' ditch	169°00'	3.20					10.4		81.9
✓ G.E.	166°40'	3.23					7.0		85.3
✓ & Hamline Ave	159°00'	3.36					3.2		89.1
✓ " " "	52°00'	1.41		+	1°45'	+4.3	5.0	-0.7	91.6
✓ Top of Knoll	40°00'	1.17		+	3°45'	+7.6	5.0	+2.6	94.9
✓ G.E.	24°10'	9.2					3.6		88.7
✓ " "	326°50'	8.7					5.9		86.4
✓ " "	319°30'	2.04					6.2		86.1
✓ " "	310°00'	3.08					5.4		86.9
✓ " "	311°20'	4.82					6.6		85.7

Page 31 Transit Obs. Line DITCH #1
Date 9-21-44 Rec.

OBJECT	AZIMUTH	STADIA	DIS- TANCE	INTERVALS OR VER. ANGLE		READ. ON ROD	DIFF. OF ELEV.	ELEVATION ABOVE DATUM
				Up+ Down-	No. of Int. or Angle	Rod Equiv.		
✓ G.E.	327° 50'	3.88				6.5		85.8
✓ " "	343° 30'	3.47				6.1		86.2
✓ SO. Edge of Swamp	343° 45'	2.75				6.4		85.9
✓ G.E.	347° 15'	1.96				6.6		85.7
✓ " "	11° 15'	2.16				4.1		88.2
✓ & Hamline Ave.	24° 45'	2.64		+	1°	+4.6	5.0 -0.4	91.9
✓ G.E. Edge Swamp	2° 00'	3.03				6.1		86.2

H.I. 4.63 108.51 108.54 108.52 894.48 -

AT Δ 8 A								103.89
To Δ 8	46° 28'	5.90				6.67		101.87
G.E.	278° -	1.25				0.0		894.48
✓ E SHALLOW DITCH	3° 45'	0.39				5.4		89.1
✓ " " "	279° 00'	1.12				2.8		91.7
✓ G.E.	280° 00'	1.12				2.2		92.3
✓ E SHALLOW DITCH	269° 45'	2.36		+	1° 05'	+4.5	5.0 -0.5	94.0
G.E.	271° 10'	2.36		+	2° 00'	+8.2	5.0 +3.2	97.7

Page 32 Transit Obs. Line DITCH #1
 Date 9-21-44 Rec.

OBJECT	AZIMUTH	STADIA	DISTANCE	INTERVALS OR VER. ANGLE		READ. ON ROD	DIFF. OF ELEV.	ELEVATION ABOVE DATUM
				Up+ Down-	No. of Int. or Angle			
✓ G. E.	307° 30'	2.15		+	3° 05'	+11.6	5.0 +6.6	901.1
✓ " "	332° 10'	1.65					1.7	892.8
✓ EDGE POT HOLE	2° 15'	2.18					6.4	88.1
✓ G. E. EDGE SWAMP	5° 00'	1.07					5.6	88.9.
✓ IN POT HOLE	20° 15'	1.10					8.3	86.2
✓ G. E. EDGE SWAMP	46° 00'	.31					7.5	87.0
✓ " " " "	143° 00'	.27					6.4	88.1.
✓ " " " "	195° 30'	.37					7.2	87.3
✓ G. E.	229° 00'	1.01					2.6	91.9.
✓ E. OF DRAW	215° 10'	2.20		+	1/2	+1.1	2.1 -1.0	93.5
✓ G. E.	204° 20'	3.10		+	1	+3.1	0.7 +2.4	96.9.
✓ " "	180° 30'	2.80					0.8	93.7
✓ EDGE OF SWAMP	191° 20'	1.86					5.0	89.5
✓ " " "	164° 15'	2.11					6.4	88.1
✓ G. E.	203° 00'	3.80		+	1° 25'		5.0	89.5
✓ " "	188° 00'	3.60		+	1° 15'		5.0	89.5
✓ " "	170° 30'	3.67		+	1° 25'		5.0	89.5

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 Date 9-21-44.....Rec.....

OBJECT	AZIMUTH	STADIA	DIS- TANCE	INTERVALS OR VER. ANGLE		READ. ON ROD	DIFF. OF ELEV.	ELEVATION ABOVE DATUM
				Up+ Down-	No. of Int. or Angle	Rod Equiv.		
✓ G. E.	154°30'	3.93				1.5		893.0
✓ EDGE OF SWAMP	143°20'	4.28				5.9		88.4
✓ " " "	122°25'	4.20				7.3		87.2
✓ " " " IN BRUSH	138°00'	3.16				7.9		86.4
✓ " " "	141°00'	3.00				6.6		87.9
✓ G. E. IN SWAMP	144°00'	3.16				8.1		86.4
✓ S. EDGE SWAMP	142°40'	3.35				7.7		86.8
✓ G. E.	157°30'	2.68				4.6		89.9
✓ " "	156°20'	1.57				4.8		89.7
✓ " "	131°45'	1.51				7.2		87.3
✓ EDGE OF SWAMP	154°30'	.87				7.0		87.5
✓ G. E. IN SWAMP	152°00'	.66				7.4		87.1
✓ G. E. EDGE SWAMP	109°00'	.68				7.5		87.0
✓ G. E.	88°30'	2.41				7.7		86.8
✓ G. E.	86°10'	4.10				8.3		86.2
EDGE OF DITCH	86°30'	5.05				8.4		86.1
♯ OF DITCH	86°30'	5.13				12.0		82.5

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 Date 9-21-44 Rec.

OBJECT	AZIMUTH	STADIA	DIS- TANCE	INTERVALS OR VER. ANGLE			READ. ON ROD	DIFF. OF ELEV.	ELEVATION ABOVE DATUM
				Up+	No. of Int.	Rod Equiv.			
✓ EDGE OF SWAMP	96° 00'	4.80					9.1		885.4
✓ " " "	101° 40'	4.60					8.7		85.8
✓ " " "	101° 10'	3.72					8.4		86.1
✓ " " "	117° 20'	3.06					8.2		86.3
✓ " " "	117° 20'	4.72					8.0		86.5
✓ G.E.	120° 00'	2.96					7.4		87.1
✓ " "	130° 00'	1.75					6.9		87.6
H.I. = 5.15 At Δ 9 MONT. I & HAMLINE To Δ 8 £ Hamline Ave ✓ F.I. 30" C.M. X Drain W. End. ✓ " " " 54" X 30" E. " ✓ £ Hamline Ave ✓ W. Edge ditch ✓ £ 9' ditch 106.77 107.14 107.06 893.02 -									
									887.93 - 107.11
							5.27		
							4.3		88.7
							10.25		82.77
							9.45		83.57
							4.5		88.5
							8.5		84.5
							10.5		82.5

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 Date 9-21-11 Rec.

OBJECT	AZIMUTH	STADIA	DIS- TANCE	INTERVALS OR VER. ANGLE			READ. ON ROD	DIFF. OF ELEV.	ELEVATION ABOVE DATUM
				Up+ Down-	No. of Int. or Angle	Rod Equiv.			
✓ G.E.	2° 30'	4.50					7.8		885.2
✓ " "	3° 58'	3.75					7.1		85.9
✓ " "	18° 40'	2.32					7.6		85.4
✓ ± 9' ditch	16° —	2.30					11.2		81.8
✓ G. E.	61° —	1.50					7.5		85.5
✓ ± 9' ditch	59° 10'	1.41					9.7		83.3
✓ No. End of syphon	65° 50'	1.40					13.7		79.3
✓ ± Water conduit	72° 05'	1.40					4.0		89.0
✓ So. End of syphon	77° —	1.40					15.5		77.5
Water Surface Marsden Lake							8.32		84.7
✓ ± Co. "I"	269° 00'	1.18					2.6		90.4
✓ " "	269° 10'	4.40		+	1° 10'	+9.0	5.0	+4.0	97.0
✓ G. E.	274° 00'	4.30		+	1° 15'	+9.3	5.0	+4.3	97.3
B. M. N.W. COR. M.H. ON WATER CONDUIT							0.59		892.43

ATL 7

T. L. 1.1

358 1.1

70.21

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Date. 9-26-44 Rec.

OBJECT	AZIMUTH	STADIA	DIS- TANCE	INTERVALS OR VER. ANGLE			READ. ON ROD	DIFF. OF ELEV.	ELEVATION ABOVE DATUM
				Up+	No. of Int. or Angle	Rod Equiv.			
H.I. 5.18		893.11							
At Δ #9									887.93
Δ #9-A	358°-09'	4.60					4.33		888.78
✓ G.E.	307-00	1.72	1.72				5.90		87.2
✓ G.E.	334-10	1.53					7.9		85.2
✓ R.D. DITCH	346-40	1.53					9.0		84.1
✓ " "	351-45	2.62					9.0		84.1
✓ G.E.	351-00	2.64					7.9		85.2
✓ EDGE SWAMP.	351-00	2.67					8.4		84.7
✓ " "	339-20	2.90					8.0		85.1
✓ " "	330-50	2.40					7.7		85.4
✓ G.E.	326-40	2.41					6.7		86.4
✓ " "	325-40	3.50					6.8		86.3
✓ EDGE SWAMP	342-20	3.42					8.2		84.9
✓ " "	349-10	4.12					8.2		84.9
✓ G.E.	290-15	1.07					5.1		88.0
✓ & DITCH	295-30	1.13		+	$\frac{1}{2}$	+0.50	5.0	-4.50	88.6

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Date Rec.

OBJECT	AZIMUTH	STADIA	DISTANCE	INTERVALS OR VER. ANGLE			READ. ON ROD	DIFF. OF ELEV.	ELEVATION ABOVE DATUM
				Up+ Down-	No. of Int. or Angle	Rod Equiv.			
NEEDLE = 7° RT.									
AT Δ 9-A									
Δ 9	178-09	4.60					6.8		888.78
✓ F.L.	10-30	1.17					6.6		87.4
✓ "	5-15	2.10					6.4		87.6
✓ "	59-00	0.32					8.2		85.8
✓ G.E.	4-40	3.12					2.8		91.2
✓ "	70-40	0.90					8.2		85.8
✓ "	18-45	3.27					2.8		91.2
✓ "	25-20	2.50					6.6		87.4
✓ "	71-20	1.65					8.2		85.8
✓ EDGE SW	40-40	1.70					8.5		85.5
✓ "	94-20	2.56					8.0		86.0
✓ "	97-30	2.20					8.1		85.9
✓ G.E.	58-20	2.46					6.8		87.2
✓ " SW	101-20	1.46					7.8		86.2
✓ "	36-00	3.50					5.1		88.9

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 Date 9-25-44 Rec.

OBJECT	AZIMUTH	STADIA	DIS- TANCE	INTERVALS OR VER. ANGLE			READ. ON ROD	DIFF. OF ELEV.	ELEVATION ABOVE DATUM
				Up+ Down-	No. of Int. or Angle	Rod Equiv.			
FROM Δ #9									
✓ ϕ DITCH	282-10	211		+	1	2.11	5.8	-3.7	889.4
✓ G.E.	283-15	212		+	1	2.1	4.6	-2.5	90.6
✓ " "	290-30	247		+	1/2	1.23	4.6	-3.4	89.7
✓ " "	298-10	251		+	0-40	3.0	9.0	-6.0	87.1
FROM Δ #9-A									
✓ G.E. SW.	135-30	0.54					8.5		885.5
✓ G.E.	45-30	4.46					1.5		92.5
✓ " SW	159-20	1.60					8.7		85.3
✓ "	66-30	4.15					0.9		93.1
✓ "	66-40	3.80					5.0		89.0
✓ " SW	136-20	1.85					8.2		85.8
✓ "	67-10	3.00					7.2		86.8
✓ " SW	121-40	2.34					8.3		85.7
✓ "	89-20	3.08					6.7		87.3
✓ "	89-30	3.70					2.9		91.1

Page 39 Transit Obs. Line
 Date 9-25-44 Rec.

OBJECT	AZIMUTH	STADIA	DIS- TANCE	INTERVALS OR VER. ANGLE			READ. ON ROD	DIFF. OF ELEV.	ELEVATION ABOVE DATUM
				Up+ Down-	No. of Int. or Angle	Rod Equiv.			
✓ G.E. SW	111-45	3.08					8.1		885.9
✓ "	89-30	4.12		+	1	4.12	0.5	+3.6	97.6
✓ " SW	124-30	3.90					7.9		86.1
✓ G.E.	103-30	4.40		+	1/2	2.2	0.0	+2.2	96.2
✓ "	105-40	3.10					3.3		90.7
✓ " SW	138-45	3.25					8.5		85.5
✓ "	109-10	3.54					6.0		88.0
✓ "	118-40	4.06					6.2		87.8
✓ "	148-10	2.70					8.7		85.3
✓ "	112-00	4.80					1.2		92.8
✓ " SW	159-50	2.45					8.4		85.6
✓ "	122-20	5.70					3.4		90.6
✓ " SW	159-20	3.60					8.8		85.2
✓ "	131-10	4.90					8.0		86.0
✓ " SW	144-40	4.06					9.1		84.9
✓ "	136-30	5.90					4.6		89.4
✓ E DITCH	130-50	6.00					9.5		84.5

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 Date 9-25-44.....Rec.....

OBJECT	AZIMUTH	STADIA	DIS- TANCE	INTERVALS OR VER. ANGLE			READ. ON ROD	DIFF. OF ELEV.	ELEVATION ABOVE DATUM
				Up+ Down-	No. of Int. or Angle	Rod Equiv.			
✓ G.E.	147-30	4.58					8.8		885.2
✓ E DITCH	147-50	4.62					10.4		83.6
✓ G.E.	135-00	5.45					8.4		85.6
✓ E DITCH - 4'	158-30	4.18					9.0		85.0
✓ "	135-30	5.50					9.9		84.1
✓ "	158-30	4.23					10.6		83.4
✓ E CONDUIT	133-00	6.05		+	$\frac{1}{2}$	+3.02	5.3-2.3		91.7
✓ TOE RD.	204-50	0.60					9.2		84.8
✓ " "	186-00	1.88					9.4		84.6

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 Date Rec. ± GRADES

OBJECT	AZIMUTH	STADIA	DIS- TANCE	INTERVALS OR VER. ANGLE		READ. ON ROD	DIFF. OF ELEV.	ELEVATION ABOVE DATUM
				Up+ Down-	No. of Int. or Angle			
0+00 INTERSECTION OF RICE CREEK.								877.1
+70								77.1
2+80								78.1
4+20								78.5
4+80								78.6
6+00								78.9
6+90								79.6
8+40 - 2-30" C.M.								80.2
+68 - ± ROAD - 24' LEXINGTON AVE.								85.8
+84 2-30" C.M.								80.3
9+00								80.0
10+94								80.2
13+90								79.8
14+50								80.3
15+35								80.2
16+55								80.3
18+50								80.6

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Date.....Rec.....

OBJECT	AZIMUTH	STADIA	DIS- TANCE	INTERVALS OR VER. ANGLE		READ. ON ROD	DIFF. OF ELEV.	ELEVATION ABOVE DATUM
				Up+ Down-	No. of Int. or Angle	Rod Equiv.		
19+80								880.6
21+60								81.1
22+90								81.8
25+40								81.8
26+70								81.5
27+50								83.0
28+75								83.0
29+70								83.3
31+50								81.1
31+65								84.0
31+80								81.2
33+25								81.9
33+75								81.9
36+10								82.2
37+90								82.8
41+00								82.3
43+00								82.1

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Date. Rec.

OBJECT	AZIMUTH	STADIA	DIS- TANCE	INTERVALS OR VER. ANGLE			READ. ON ROD	DIFF. OF ELEV.	ELEVATION ABOVE DATUM
				Up+ Down-	No. of Int. or Angle	Rod Equiv.			
44+15									881.8
45+40	30" C.M.								83.2
+50	± DRIVE								85.5
+60	30" C.M.								82.5
47+10									82.7
48+10									81.9
49+16	30" C.M.								82.8
+43	± HAMLINE AVE. 26' W								88.8
+76	30" C.M.								83.6
50+75									82.5
52+15									81.8
53+75									83.3
53+90	SYPHON								79.3
54+08	± WATER CONDUIT								89.0

