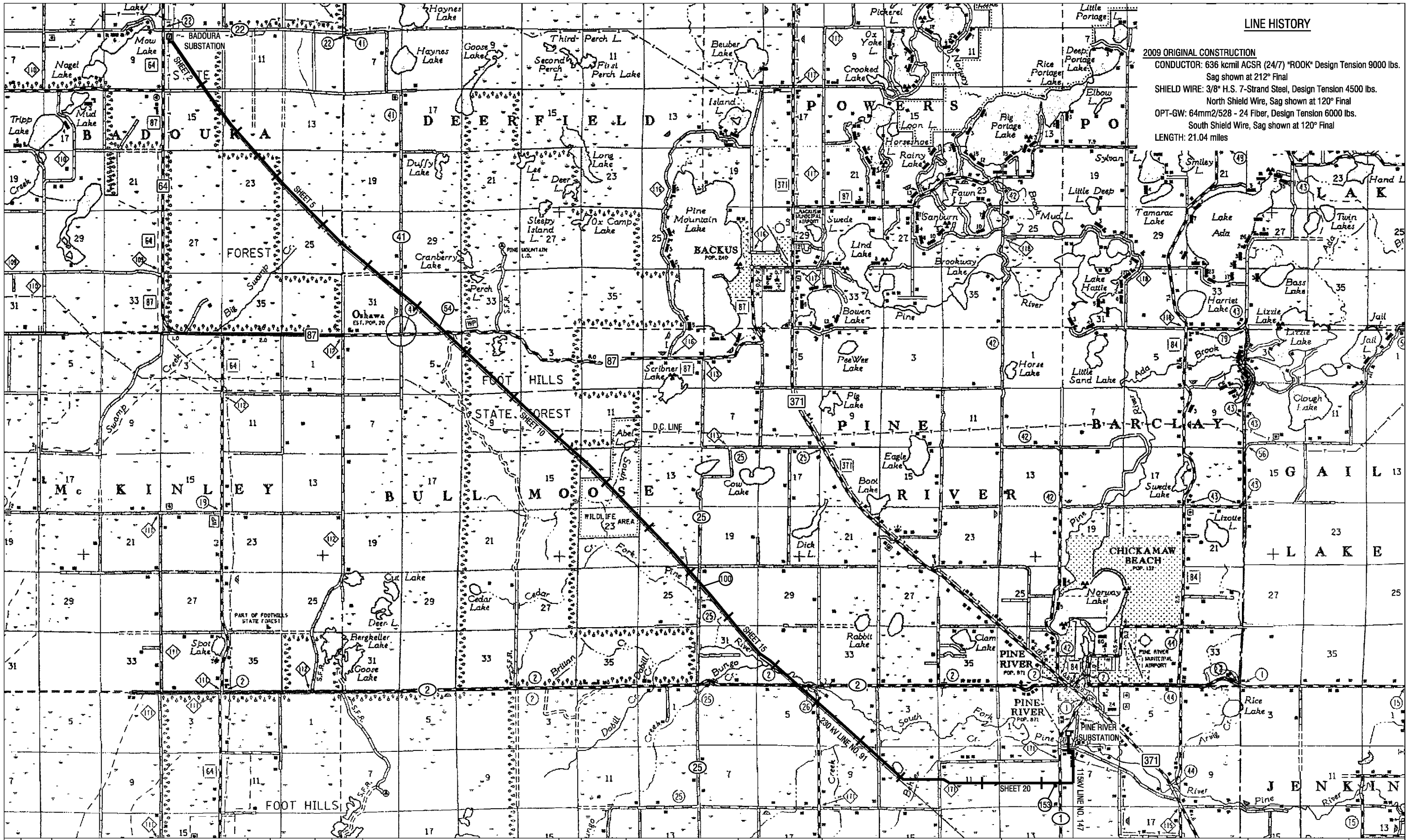

LINE HISTORY

2009 ORIGINAL CONSTRUCTION
CONDUCTOR: 636 kcmil ACSR (24/7) "ROOK" Design Tension 9000 lbs.
Sag shown at 212° Final
SHIELD WIRE: 3/8" H.S. 7-Strand Steel, Design Tension 4500 lbs.
North Shield Wire, Sag shown at 120° Final
OPT-GW: 64mm2/528 - 24 Fiber, Design Tension 6000 lbs.
South Shield Wire, Sag shown at 120° Final
LENGTH: 21.04 miles

NO.	DATE	REVISION DESCRIPTION	BY	APPROVED	NO.	DATE	REVISION DESCRIPTION	BY	APPROVED
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DRAWN BY: A.R.H. | CHECKED: .
SCALE: NONE | APPROVED: .
DATE 12-11-08

minnesota power

115 KV BADOURA - PINE RIVER LINE NO. 142

Sheet 1 OF 22 | REV. 0

MD+32624

FILE: P\projects\CADD\private\files2\XSMN\142LINE\MD+32624\MD+32624__01.dwg

CADD DRAWING – FOR REPRODUCTION ONLY

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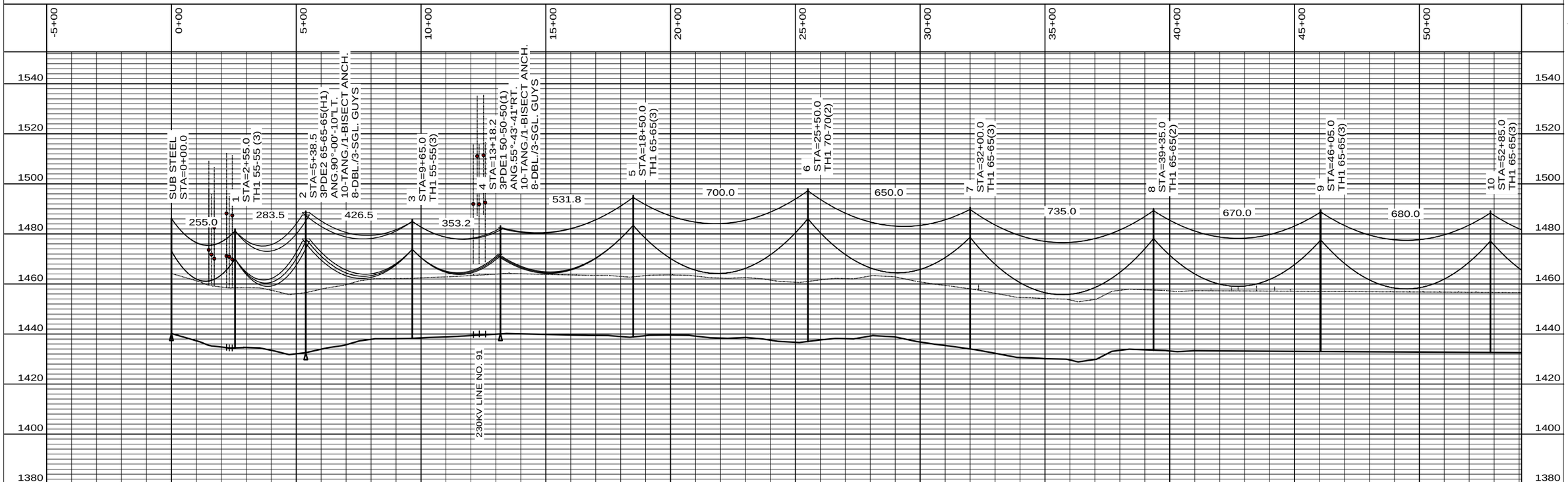

NO.	DATE	REVISION DESCRIPTION	BY	APPROVED

NO.	DATE	REVISION DESCRIPTION	BY	APPROVED

DRAWN BY: D.J.L.	CHECKED:	MINNESOTA POWER	SHEET 2 OF 22 REV. 0
SCALE: HORZ. 1" = 400' VERT. 1" = 40'	APPROVED:	115 KV BADOURA - PINE RIVER LINE NO. 142	MD + 32624
	DATE: 12-11-08		

FILE:

MICROFILMED		CODE		
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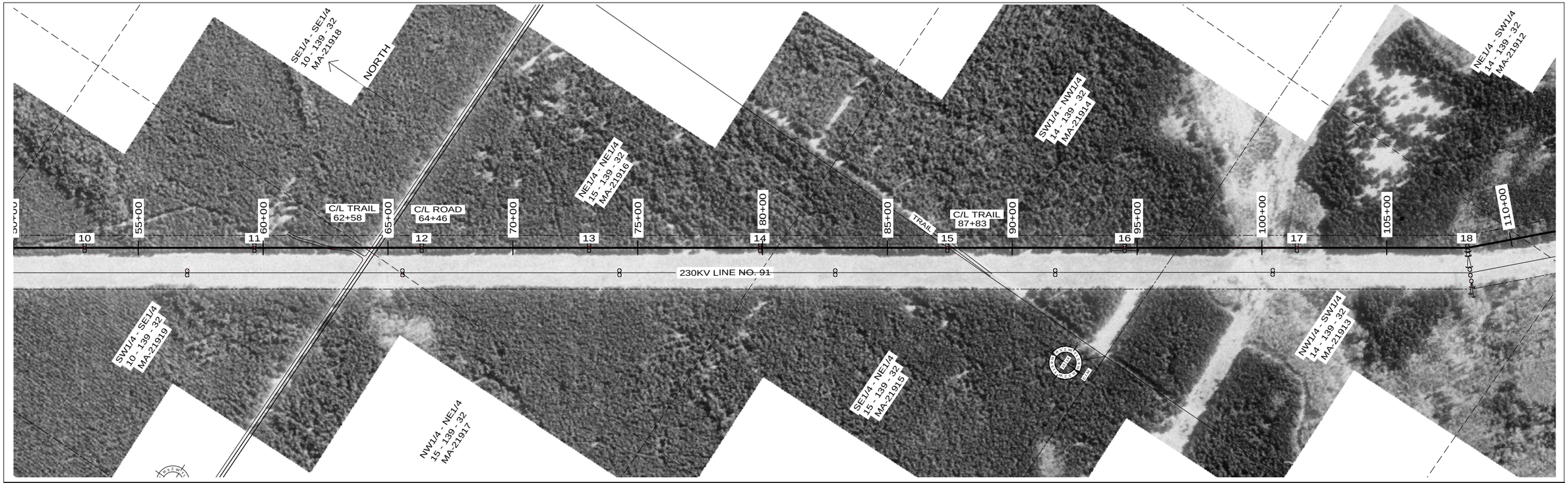

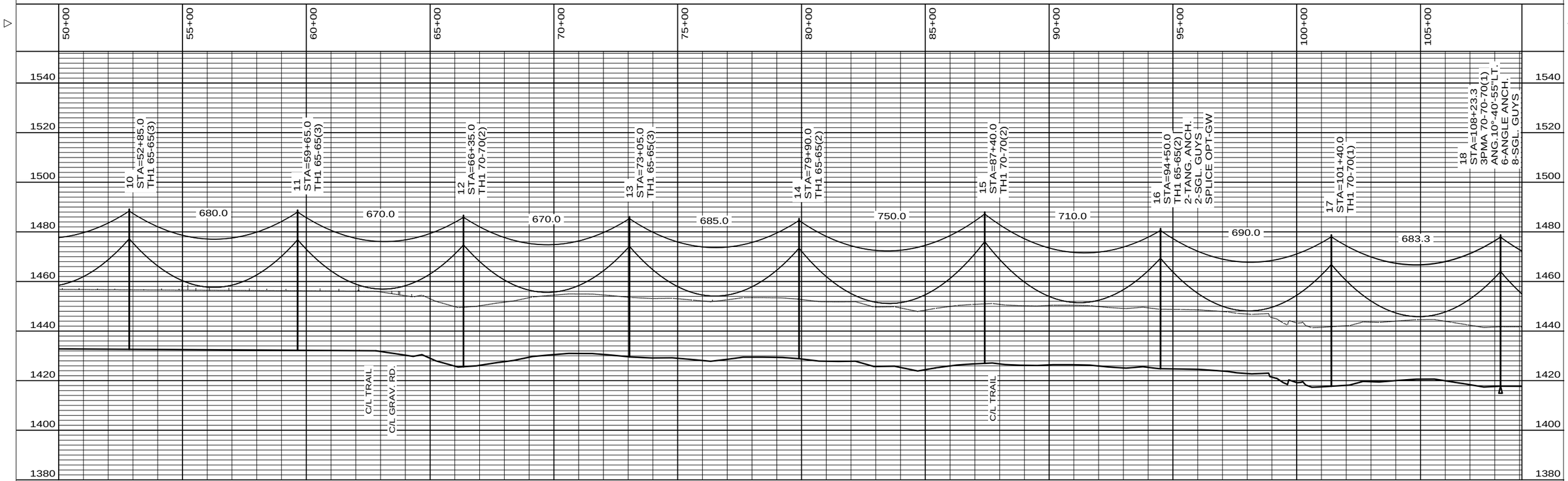

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NO.	DATE	REVISION DESCRIPTION	BY	APPROVED

DRAWN BY: D.J.L. | CHECKED:

SCALE: HORZ. 1" = 400' VERT. 1" = 40' | APPROVED:

DATE: 12-11-08

MINNESOTA POWER

115 KV BADOURA - PINE RIVER LINE NO. 142

SHEET 3 OF 22 | REV. 0

MD + 32624

FILE:

MICROFILMED / /

CODE

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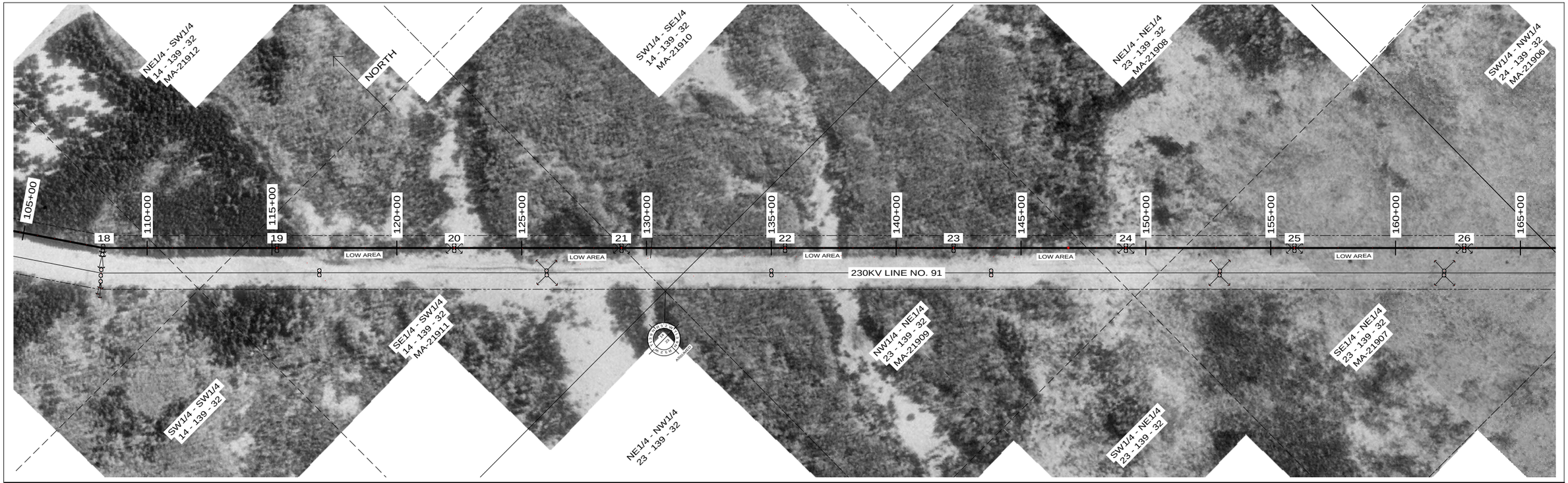

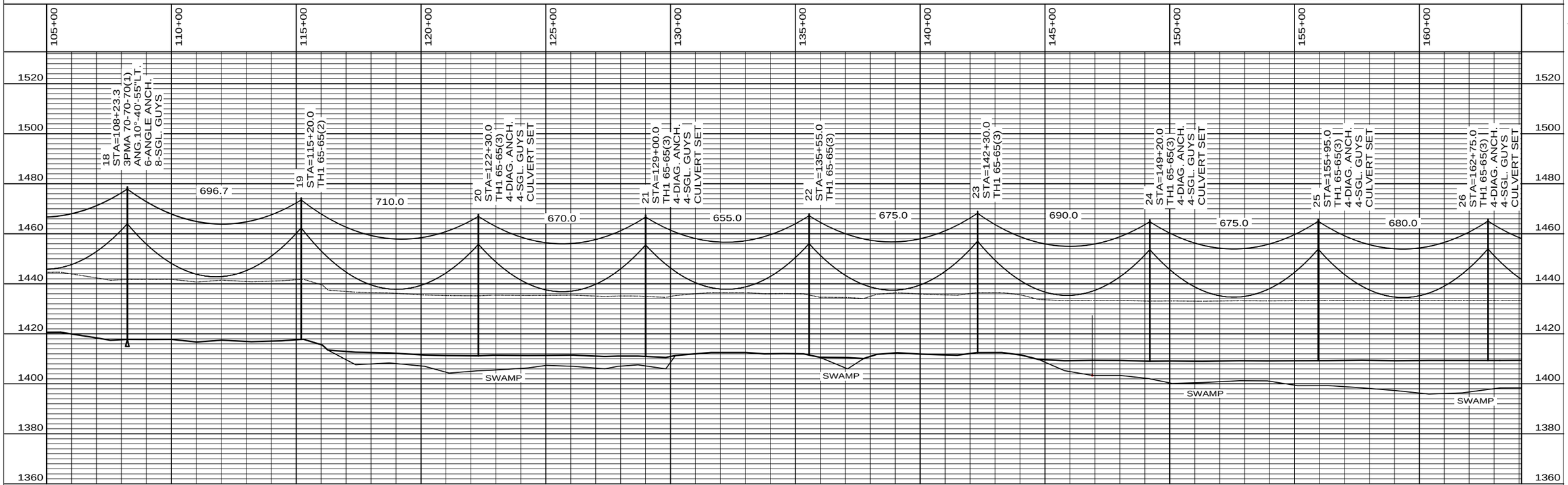

NO.	DATE	REVISION DESCRIPTION	BY	APPROVED

NO.	DATE	REVISION DESCRIPTION	BY	APPROVED

DRAWN BY: D.J.L. | CHECKED:

SCALE: HORZ. 1" = 400' VERT. 1" = 40'

APPROVED:

DATE: 12-11-08

MINNESOTA POWER

115 KV BADOURA - PINE RIVER LINE NO. 142

SHEET 4 OF 22 | REV. 0

MD + 32624

FILE:

MICROFILMED / /

CODE

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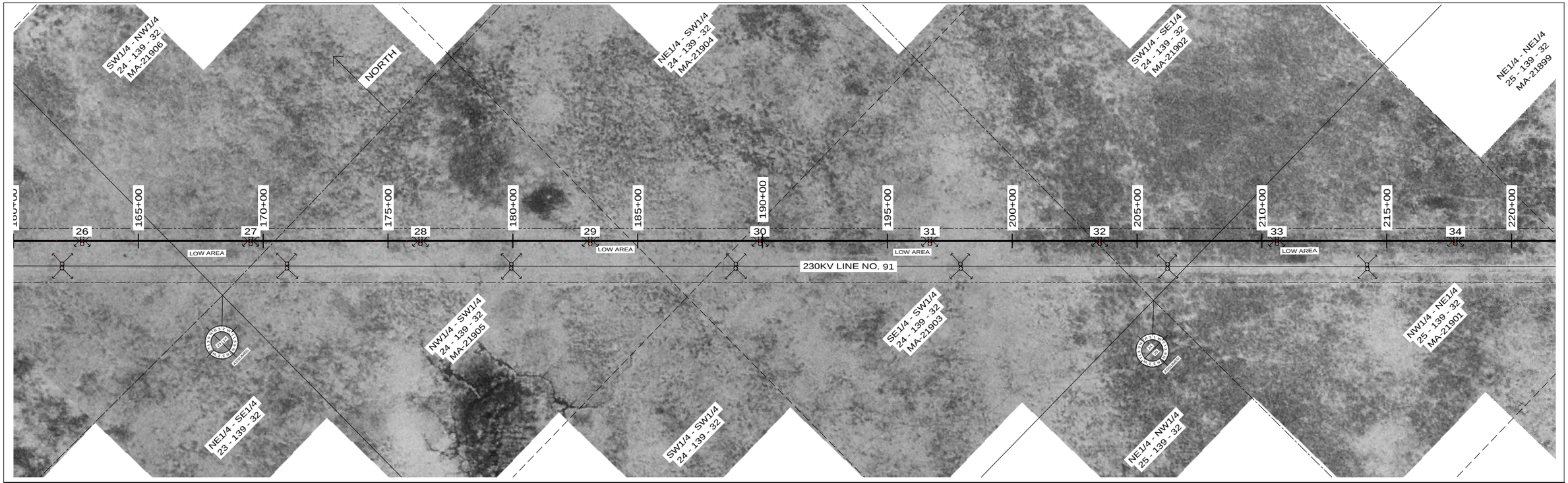

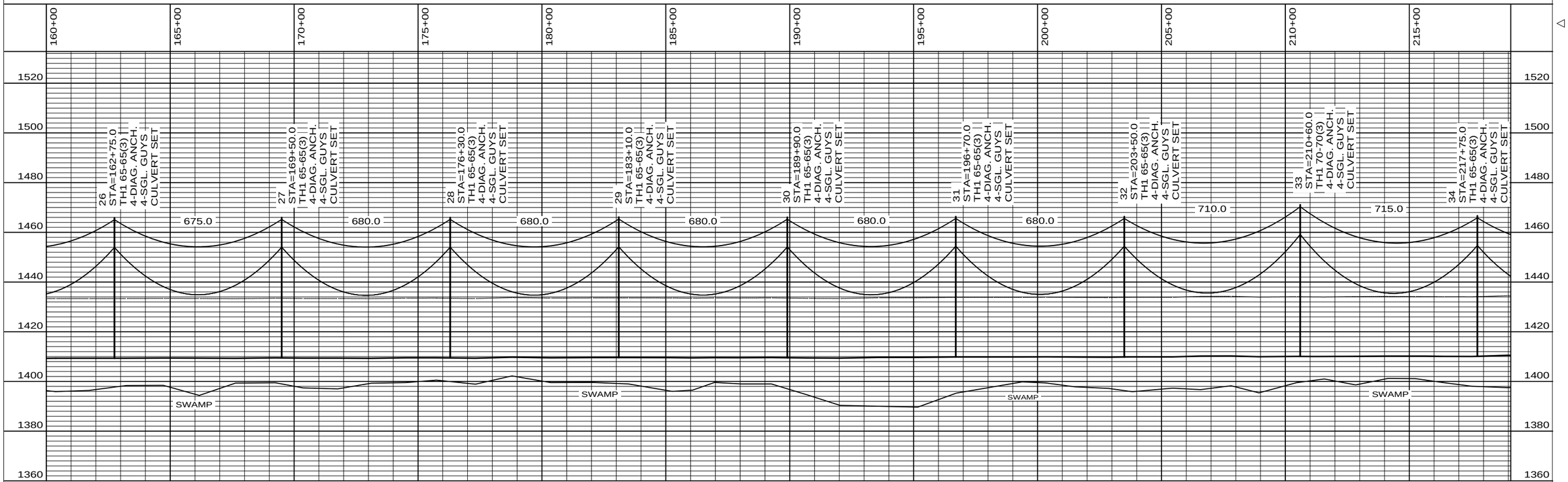

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NO.	DATE	REVISION DESCRIPTION	BY	APPROVED

DRAWN BY: D.J.L. | CHECKED:

SCALE: HORZ. 1" = 400' VERT. 1" = 40'

APPROVED:

DATE: 12-11-08

MINNESOTA POWER

115 KV BADOURA - PINE RIVER LINE NO. 142

SHEET 5 OF 22 | REV. 0

MD + 32624

MICROFILMED / /

CODE

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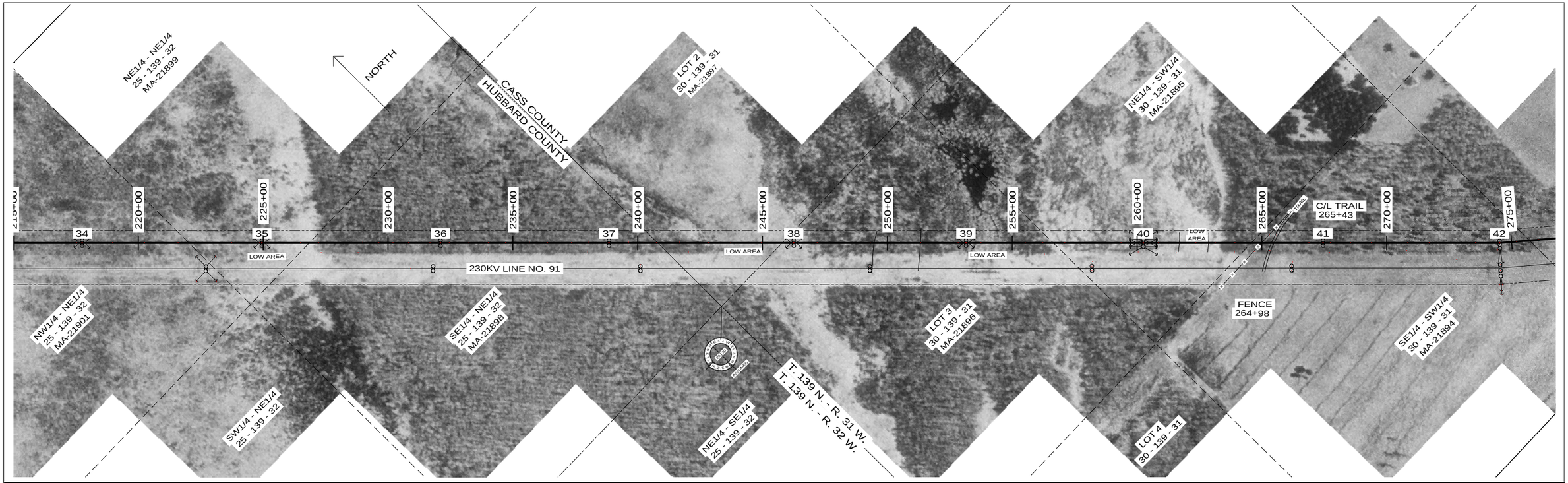
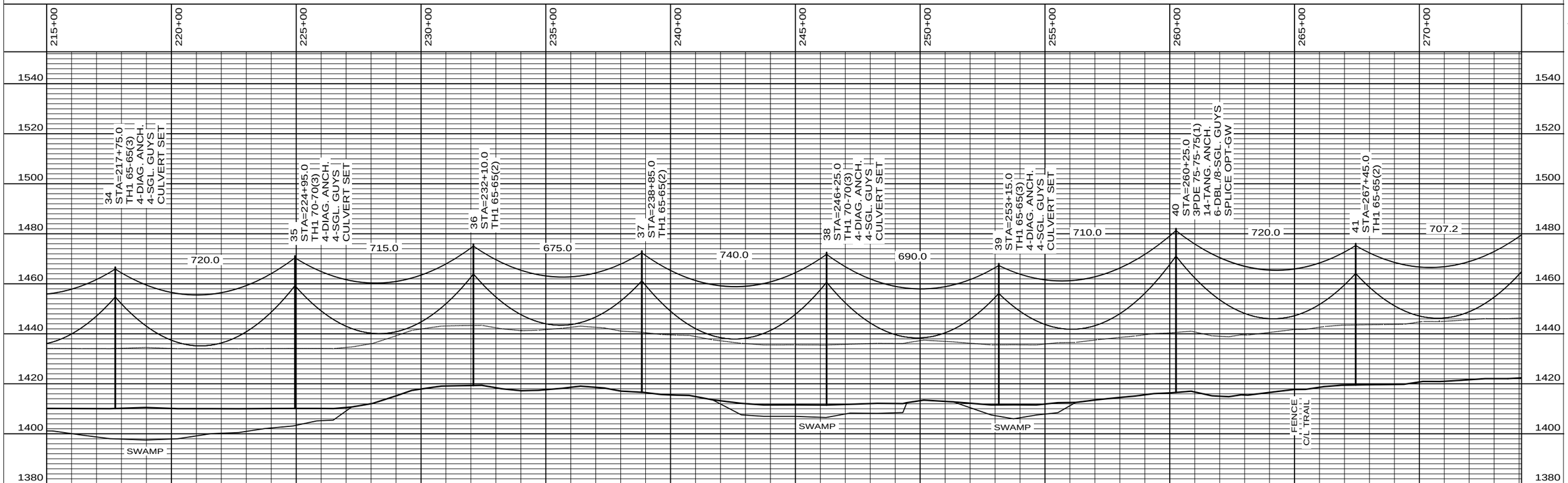
PLS-CADD DRAWING





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NO.	DATE	REVISION DESCRIPTION	BY	APPROVED

DRAWN BY: D.J.L. | CHECKED:

SCALE: HORZ. 1" = 400' VERT. 1" = 40' | APPROVED:

DATE: 12-11-08

MINNESOTA POWER

115 KV BADOURA - PINE RIVER LINE NO. 142

SHEET 6 OF 22 | REV. 0

MD + 32624

MICROFILMED / /

CODE

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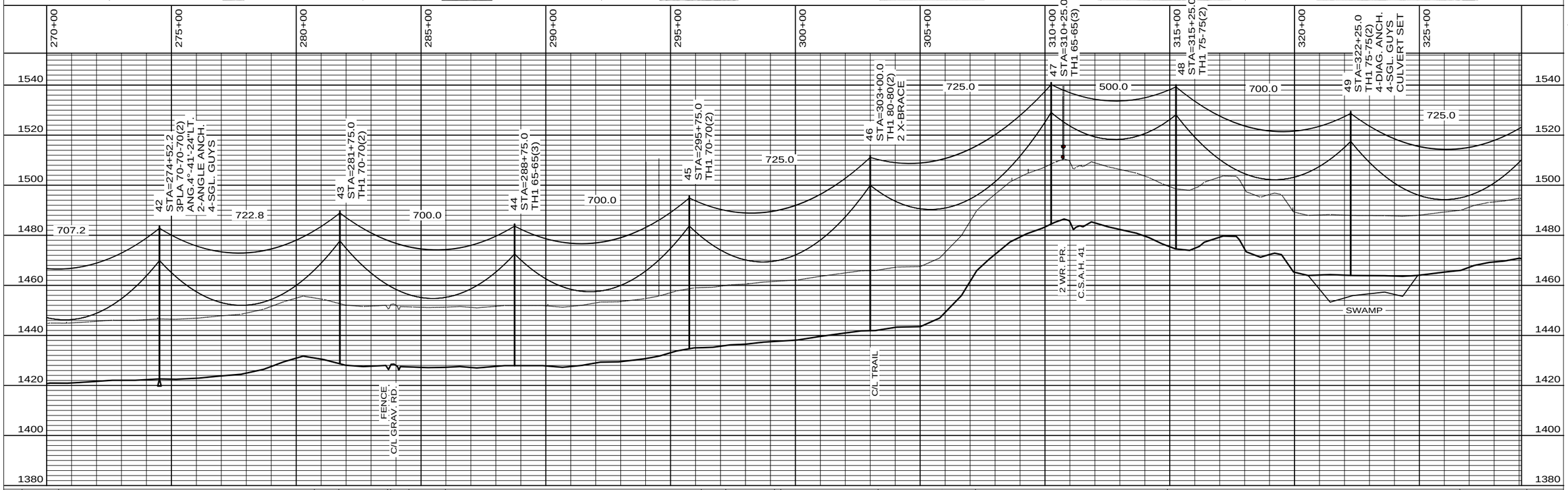
PLS-CADD DRAWING



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NO.	DATE	REVISION DESCRIPTION	BY	APPROVED

DRAWN BY: D.J.L.
CHECKED:
SCALE: HORZ. 1" = 400'
VERT. 1" = 40'
APPROVED:
DATE: 12-11-08

MINNESOTA POWER

115 KV BADOURA - PINE RIVER LINE NO. 142

SHEET 7 OF 22 REV. 0

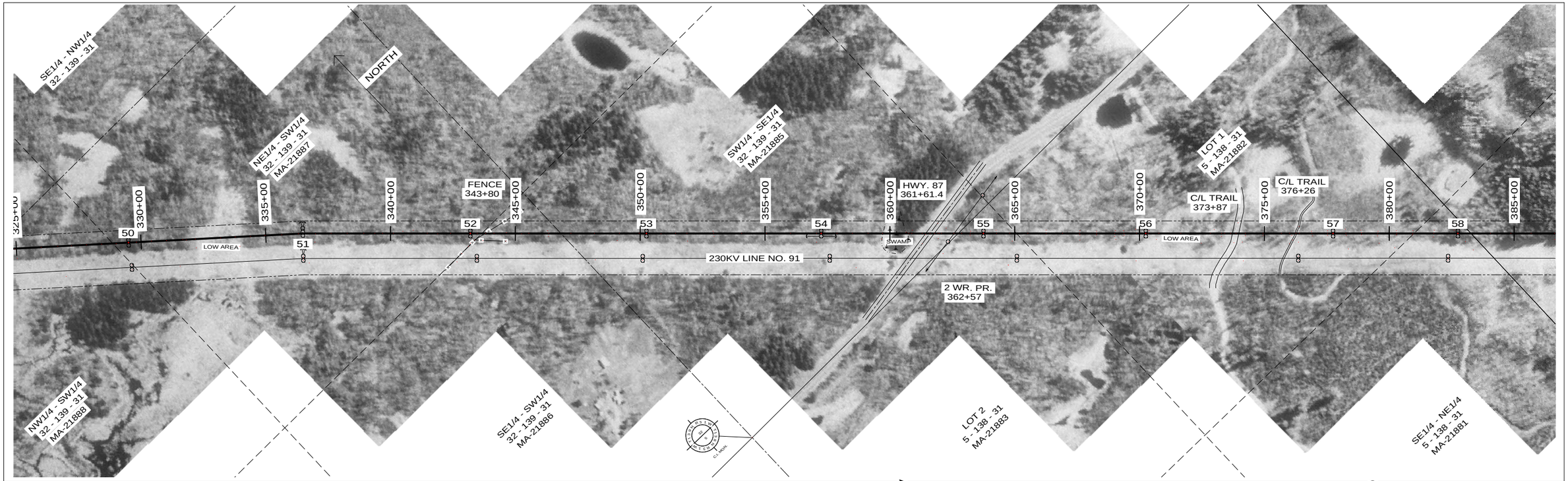
MD + 32624

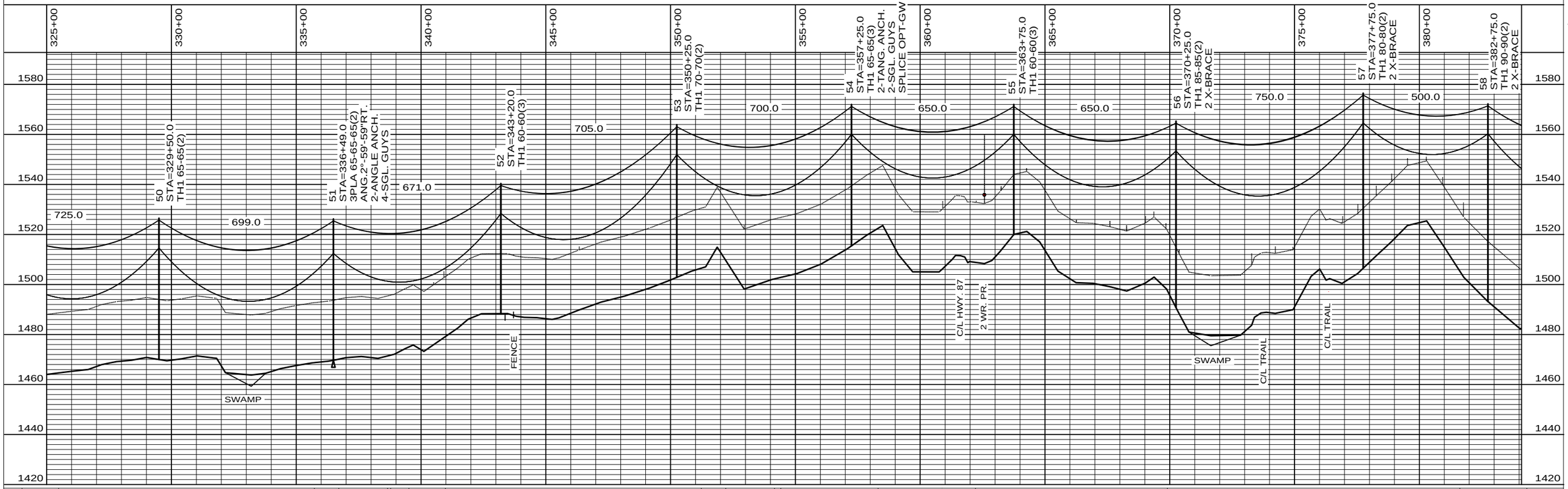
FILE:

MICROFILMED / /

CODE

PLS-CADD DRAWING





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NO.	DATE	REVISION DESCRIPTION	BY	APPROVED

DRAWN BY: D.J.L. | CHECKED:

SCALE: HORZ. 1" = 400' | VERT. 1" = 40'

APPROVED:

DATE: 12-11-08

MINNESOTA POWER

115 KV BADOURA - PINE RIVER LINE NO. 142

SHEET 8 OF 22 | REV. 0

MD + 32624

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