Appendix B Transmission Line Structures



ING =	TP-115
D (MPH) =	48.5
TE MAXIMUM =	307.0 FT
DUT DISTANCE E CENTERLINE) =	9.07 FT
DUT DISTANCE DUCTOR ATTACHMENT) =	4.07 FT
ANCE FROM ROW TO CONDUCTOR =	5.93 FT



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DATE DESCRIPTION roject Manager: DJH DETROIT LAKES PUBLIC JDL esigner: UTILITIES Project Number: 419115 DETROIT LAKES, MN ENGINEERING (712) 472-2531

Conductor blowout analysis is conducted in accordance with the criteria of the National Electric Safety Code (NESC).

 \triangle Conductor blowout measurements are calculated at mid-span where worst-case conductor displacement occurs.

Where total road ROW is 200' or greater and poles are 15' or more from the ROW line, TP-115 structures shall be installed. See Figure 3A for details.

Proposed conductor size is 336 kcmil ACSR, Linnet.

NESC CONDUCTOR BLOWOUT SUMMARY

NOTES:

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POLE FRAMING =	TP-115B
WIND SPEED (MPH) =	48.5
APPROXIMATE MAXIMUM POLE SPAN =	307.0 FT
"X" - BLOWOUT DISTANCE (FROM POLE CENTERLINE) =	0.93 FT
"Y" - BLOWOUT DISTANCE (FROM CONDUCTOR ATTACHMENT) =	4.07 FT
"Z" - CLEARANCE FROM ROW TO DISPLACED CONDUCTOR =	10.93 FT





ING =	TS-5G
D (MPH) =	48.5
TE MAXIMUM =	309.0 FT
DUT DISTANCE E CENTERLINE) =	6.12 FT
ANCE FROM ROW TO CONDUCTOR =	3.88 FT