

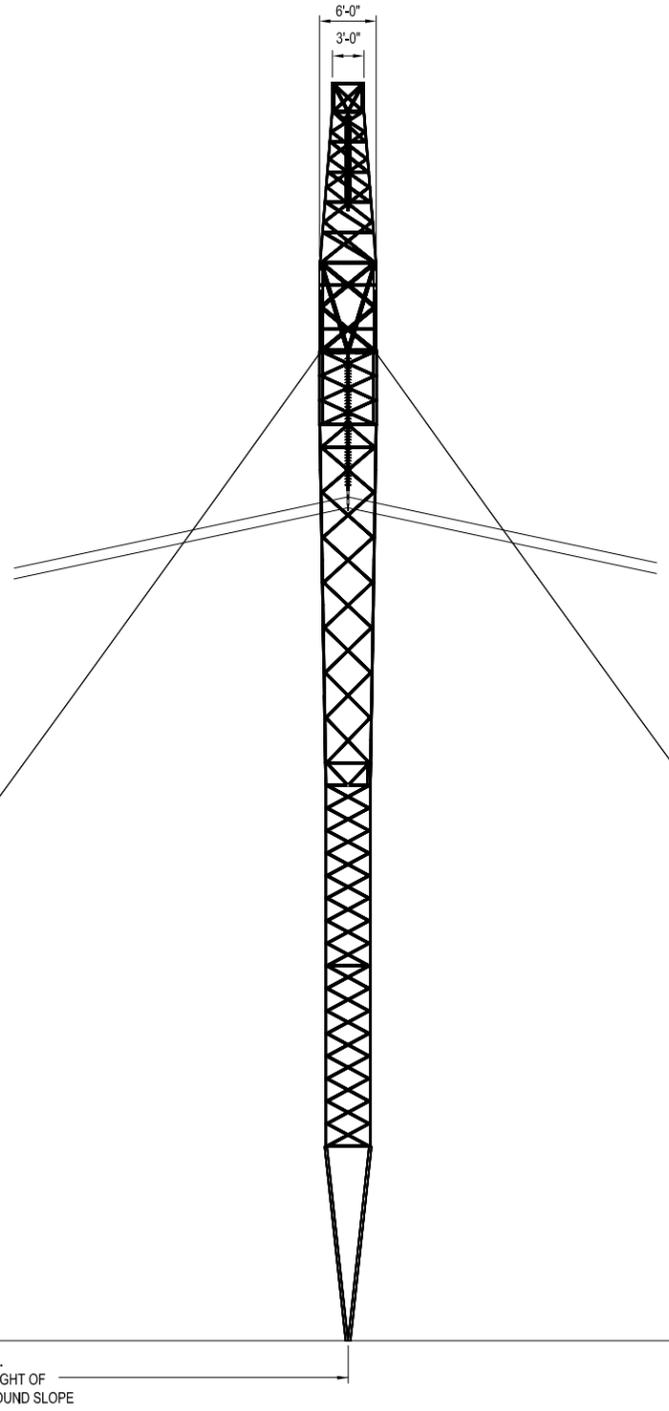
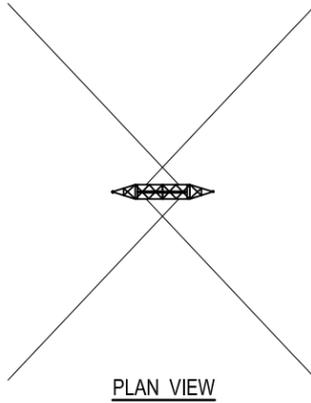
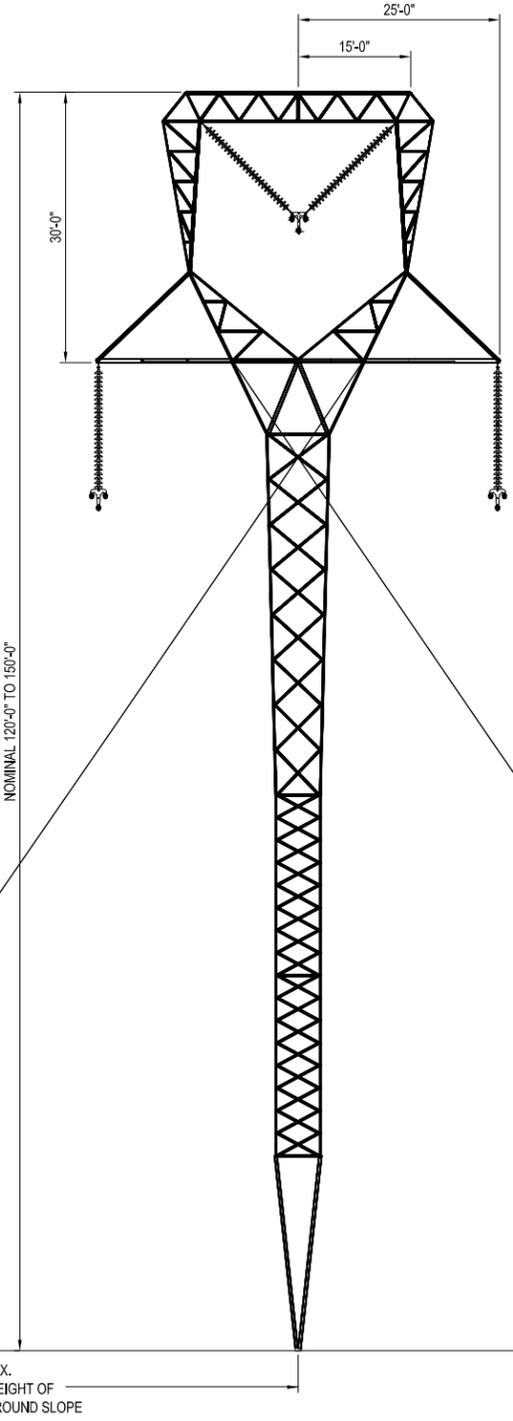
## Appendix D

### Infrastructure Illustrations

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ALL DIMENSIONS ARE APPROXIMATE  
AND PRELIMINARY. SUBJECT TO  
CHANGE IN FINAL DESIGN.

**NOTES**

- 1. AVERAGE SPAN: 1,450 FT  
WIND SPAN: 1,650 FT  
WEIGHT SPAN: 2,400 FT

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REV	REVISIONS	DATE	DRN	DSGN	CKD	APPD	REFERENCE DRAWINGS
C	ISSUED FOR REVIEW	9/20/12	GC	RB	GK		
B	STRUCTURE STUDY	9/18/12	GC	RB	GK		
A	PRELIMINARY OUTLINE						

DSGN	RB	9/14/12
DRN	GC	9/17/12
CKD		
SCALE:	N.T.S.	
FOR 11x17 DWG ONLY		



GREAT NORTHERN TRANSMISSION  
MINNESOTA POWER  
500KV GUY DELTA SUSPENSION TOWER  
CONCEPTUAL TANGENT STRUCTURE

JOB NUMBER	REV
127300	C
DRAWING NUMBER	
X-6	





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The following photos illustrate the size, type, and general arrangement of the major equipment in existing series compensation and 500 kV substation facilities that are similar to those proposed for the Project.



*Example of series compensation station consisting of two series compensated 345 kV lines*



*Front view of one series capacitor bank, consisting of three raised platforms*



*Example of 500 kV line entrance*



*Example of 500 kV shunt capacitor bank (right half of picture)*



*Example of single phase 500 kV shunt reactor (three phases required)*



*Example of single phase 500/230 kV transformer (three phases required)*



*Example of 500 kV circuit breaker*