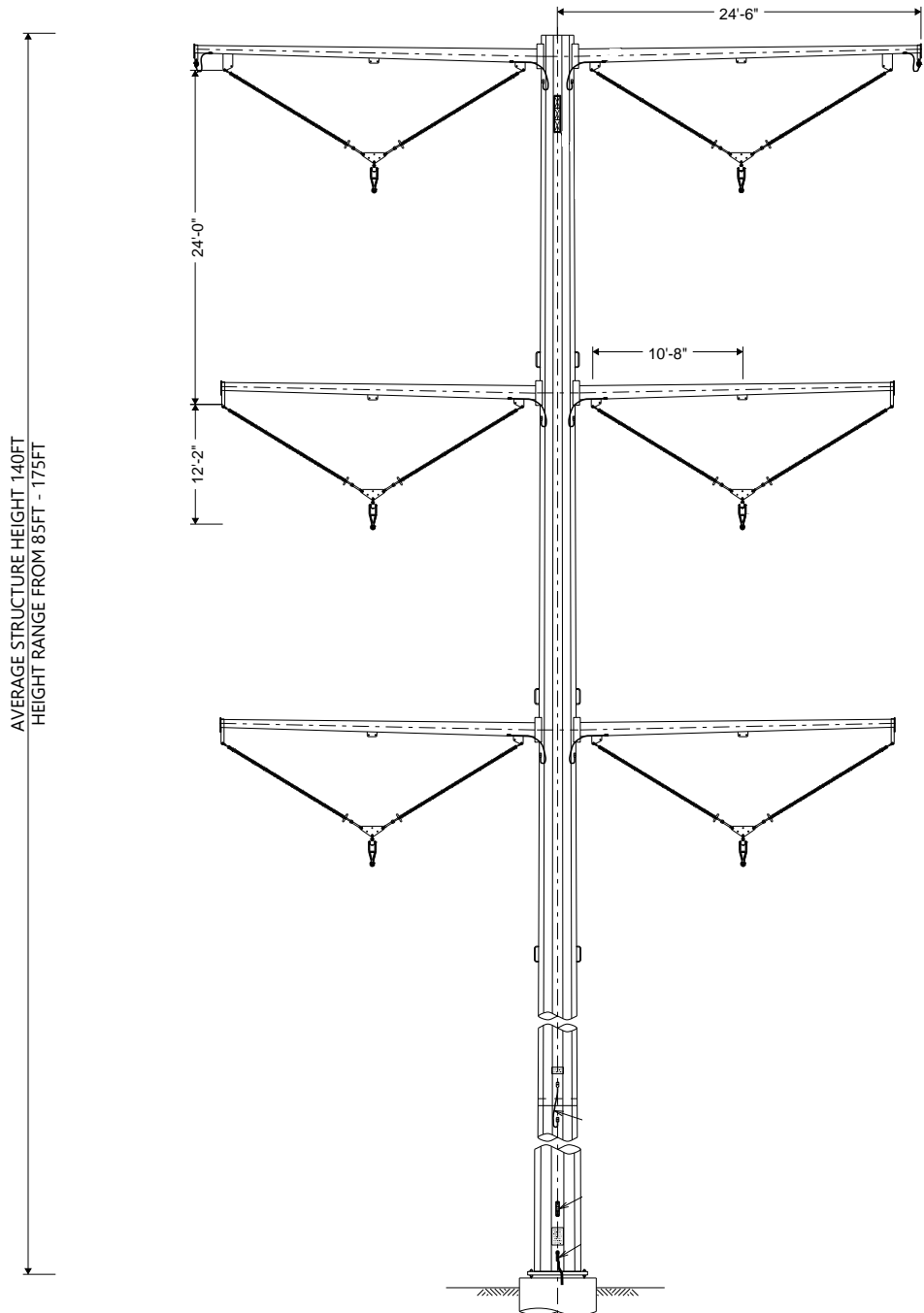


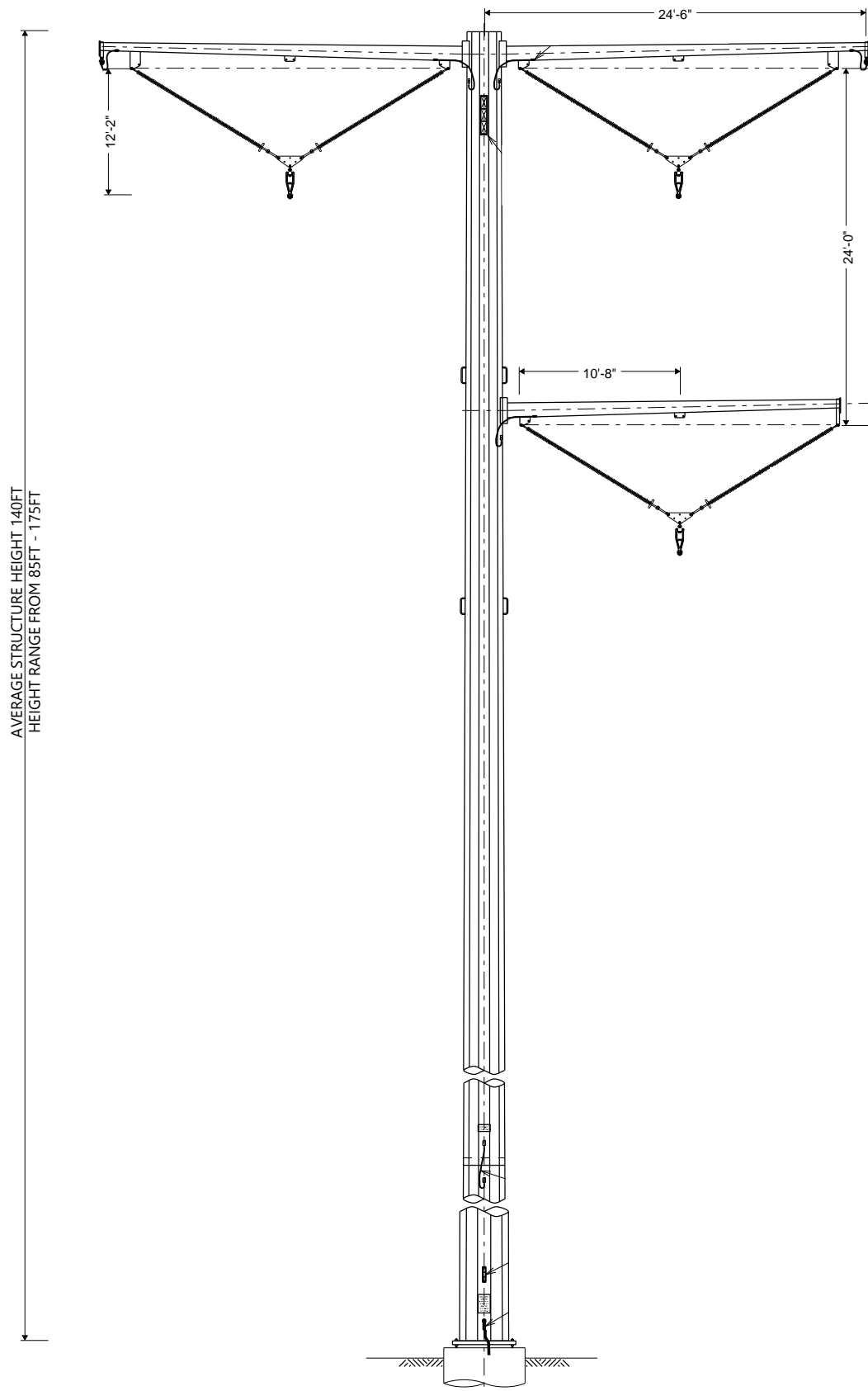
Appendix H
Technical Drawings of
Proposed Structures

Appendix H
Mankato – Mississippi River Transmission Project
Certificate of Need and Route Permit Application
E002/CN-22-532 and E002/TL-23-157



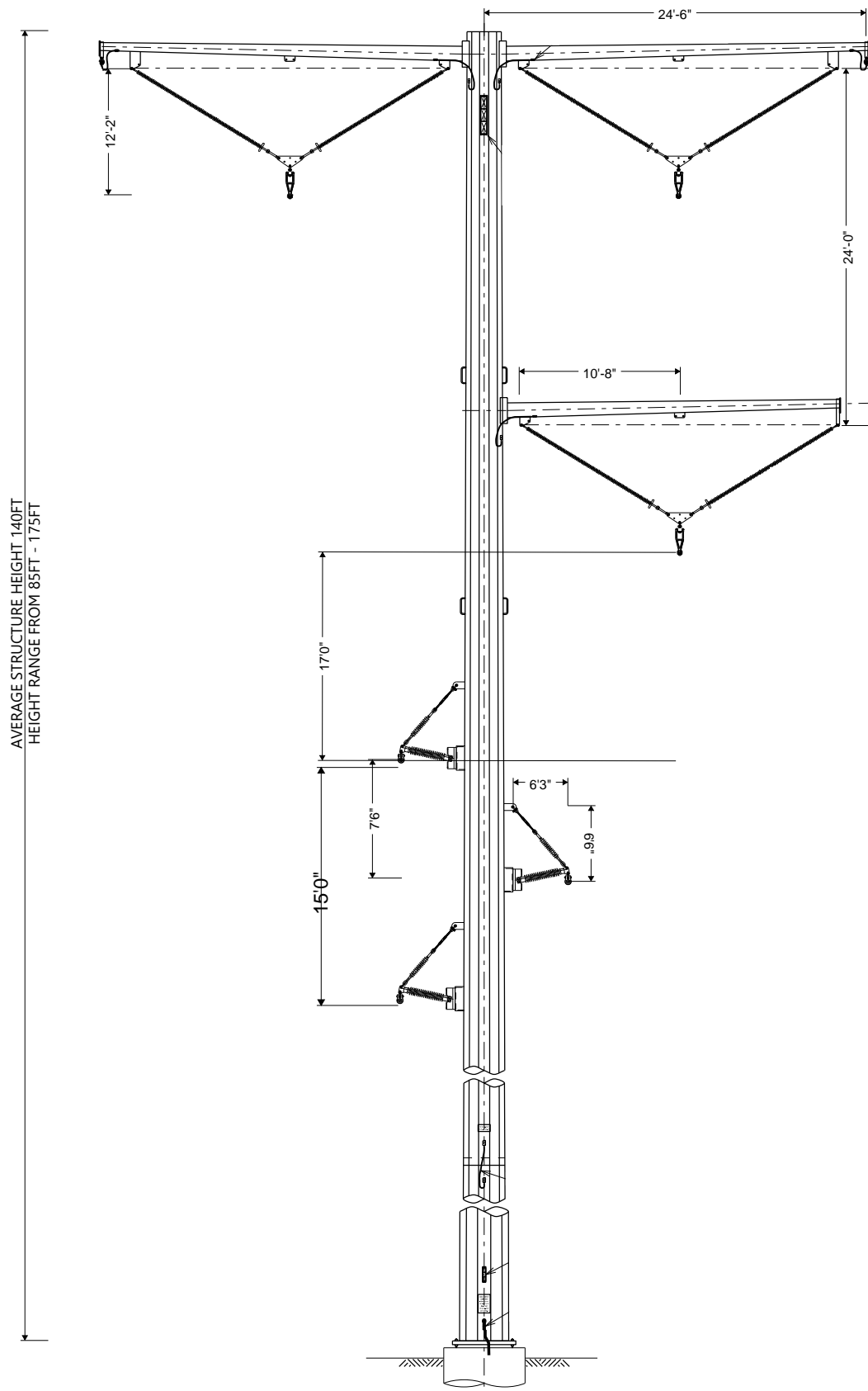
AVERAGE STRUCTURE HEIGHT 140FT
 HEIGHT RANGE FROM 85FT - 175FT

LOOKING AHEAD
 DOUBLE-CIRCUIT MONOPOLE
 TANGENT STRUCTURE
 STANDARD SPAN



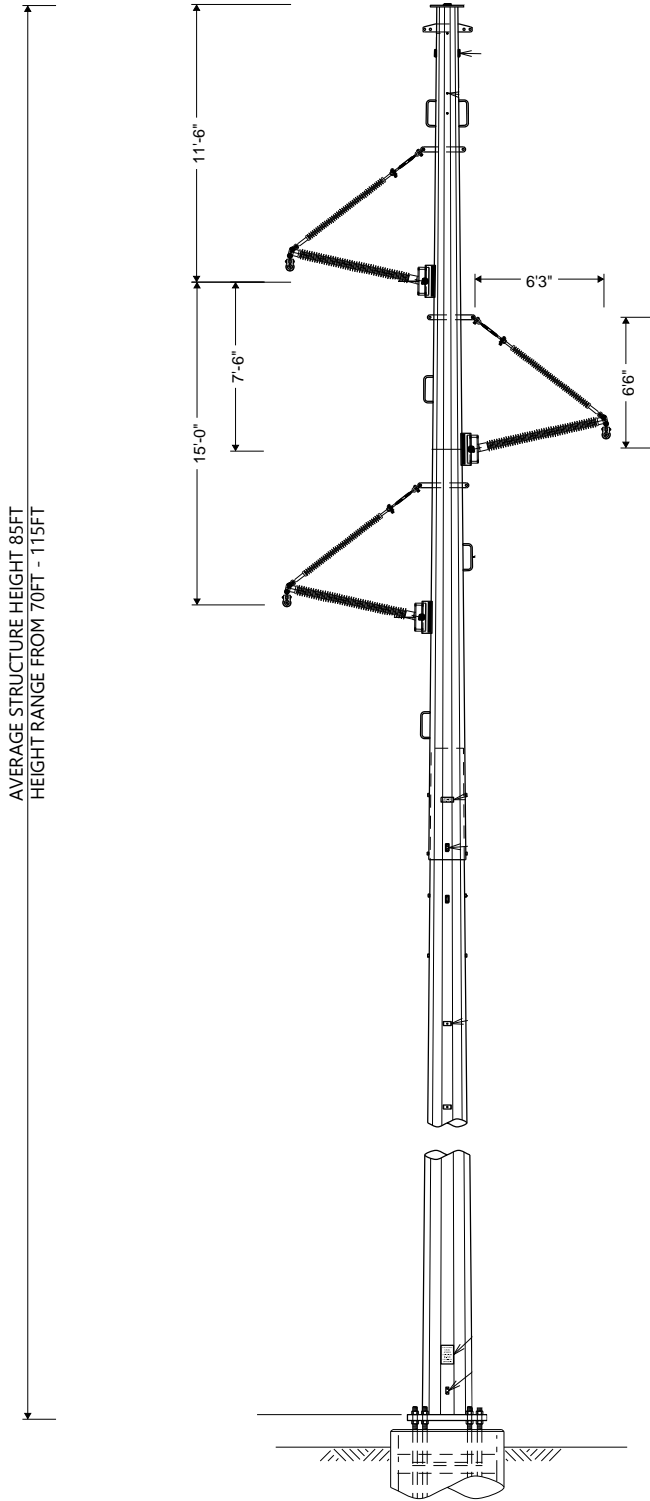
AVERAGE STRUCTURE HEIGHT 140FT
HEIGHT RANGE FROM 85FT - 175FT

LOOKING AHEAD
SINGLE-CIRCUIT 345KV MONOPOLE
TANGENT STRUCTURE
STANDARD SPAN



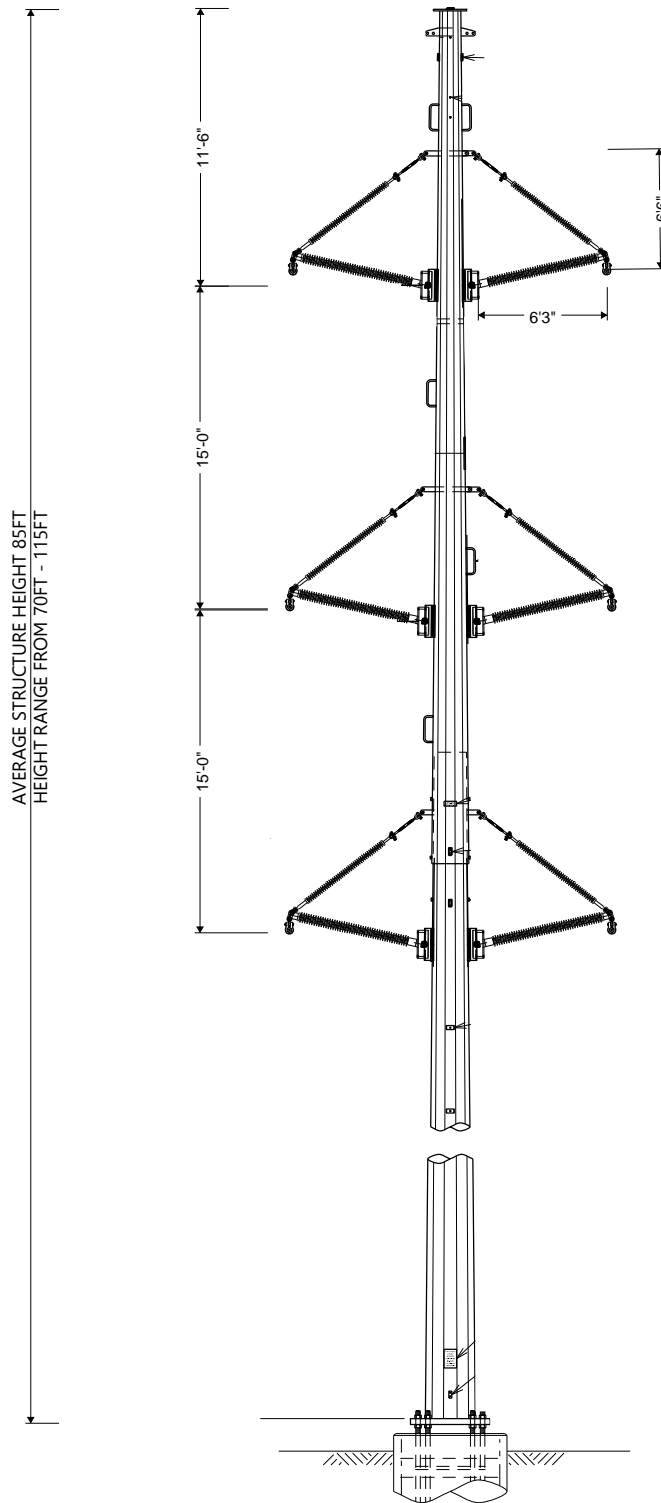
AVERAGE STRUCTURE HEIGHT 140FT
 HEIGHT RANGE FROM 85FT - 175FT

LOOKING AHEAD
 SINGLE-CIRCUIT 345kV MONOPOLE
 TANGENT STRUCTURE w/
 115kV/69kV UB
 STANDARD SPAN



AVERAGE STRUCTURE HEIGHT 85FT
 HEIGHT RANGE FROM 70FT - 115FT

LOOKING AHEAD
 SINGLE-CIRCUIT 161kV MONOPOLE
 TANGENT STRUCTURE
 STANDARD SPAN



LOOKING AHEAD
 DOUBLE-CIRCUIT 161kV/69kV MONOPOLE
 TANGENT STRUCTURE
 STANDARD SPAN