

A Beginner's Guide to Structural Engineering

Peters Creek Bridge

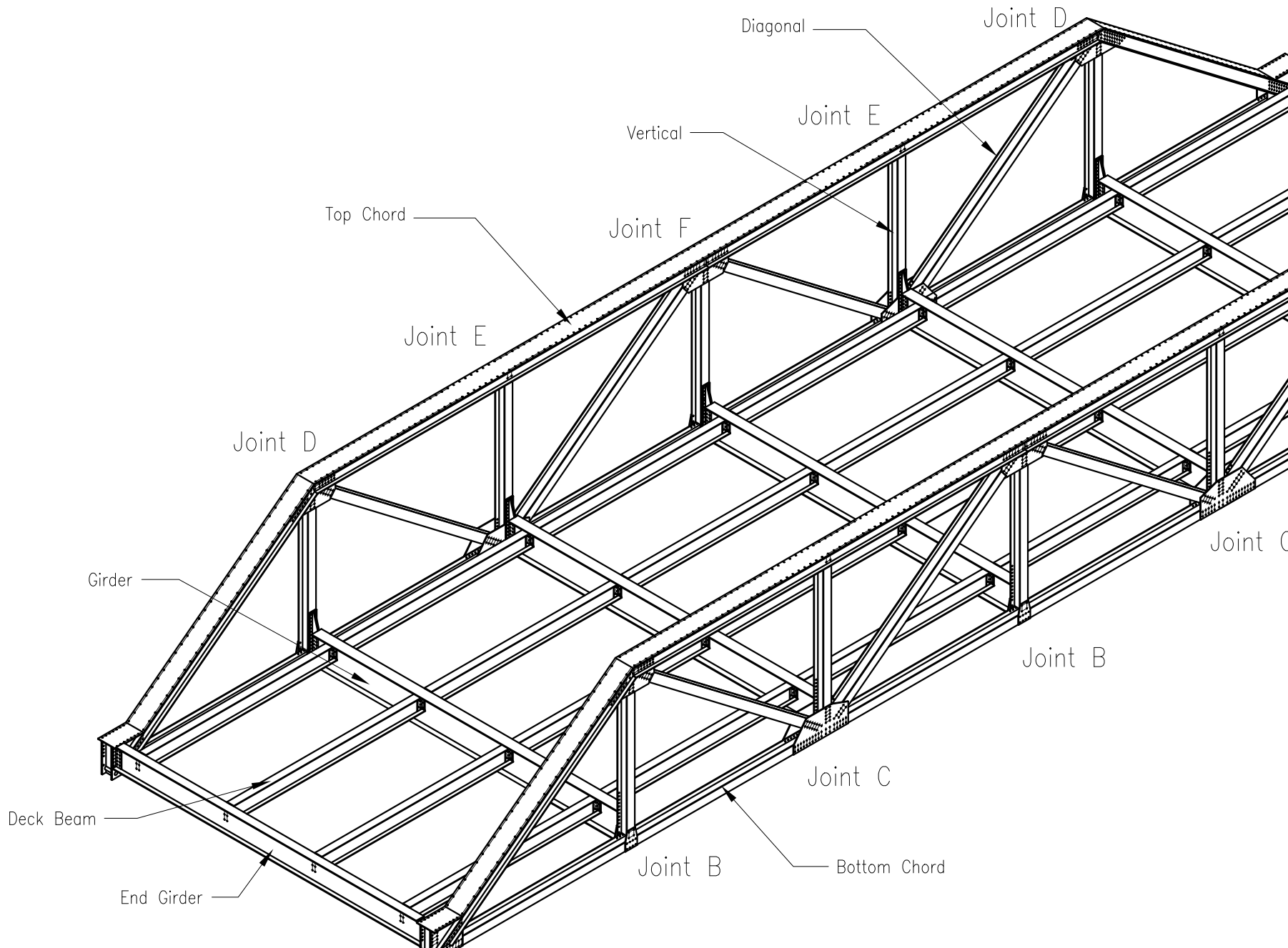
General Notes:

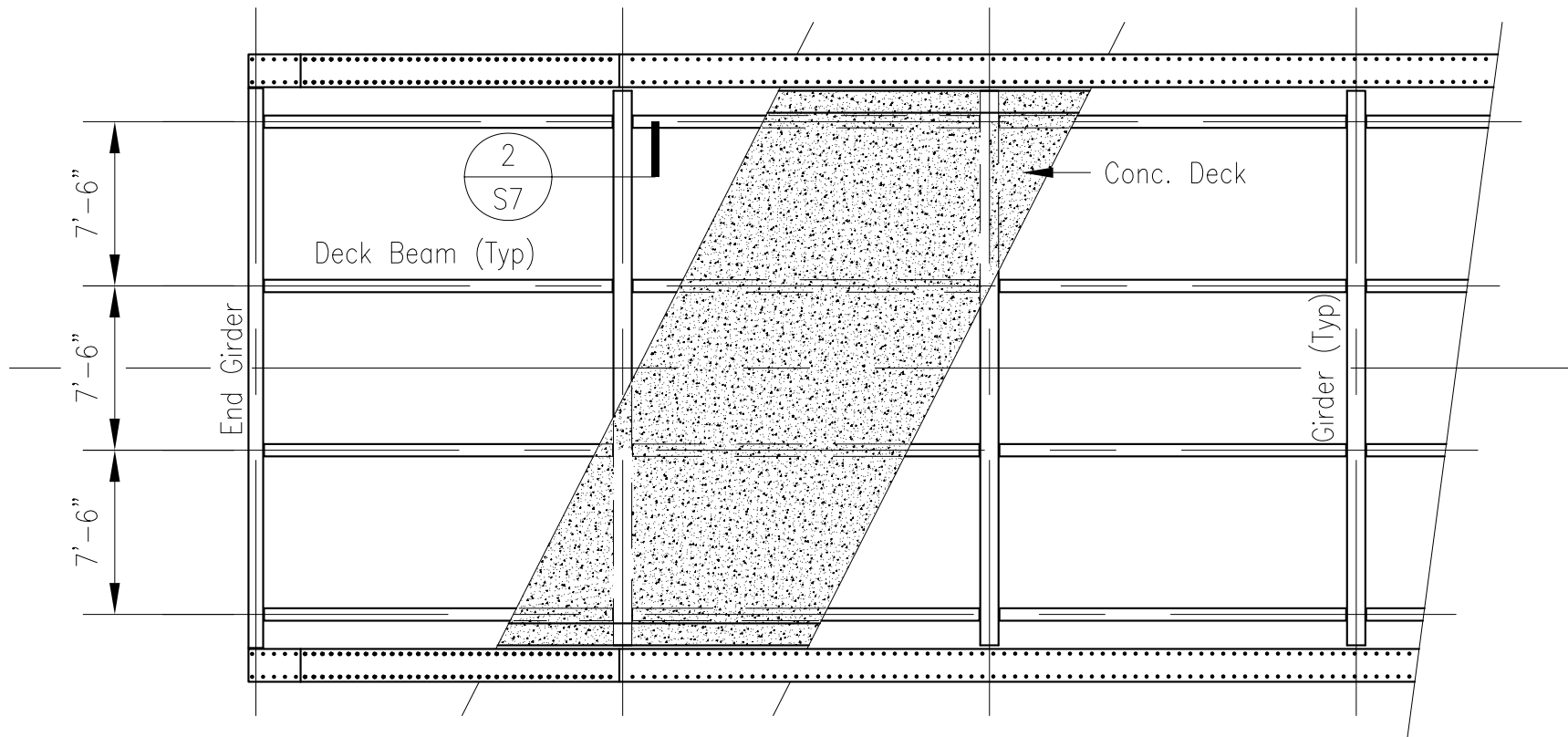
1. All member and connection design is to be in accordance with latest version of the American Institute of Steel Construction (AISC) Specification for Structural Steel Buildings and the AISC Specification for Structural Joints using ASTM A325 or A490 bolts as found in the AISC Steel Construction Manual (SCM).
2. All steel is the preferred type for each shape as indicated in the Steel Construction Manual unless otherwise noted or specified in problem statements.
3. All bolts are $\frac{3}{4}$ " dia. A325-N unless otherwise noted or specified in problem statements.
4. Concrete 28-day strength, f'_c , is 4,000 psi
5. The drawings presented here are schematic in nature. Actual member and bolt types and sizes and connection configurations are subject to change during problem completion.

Sheet Index:

S1	Isometric
S2	Plan, Profile, & Section
S3-S7	Connection Details



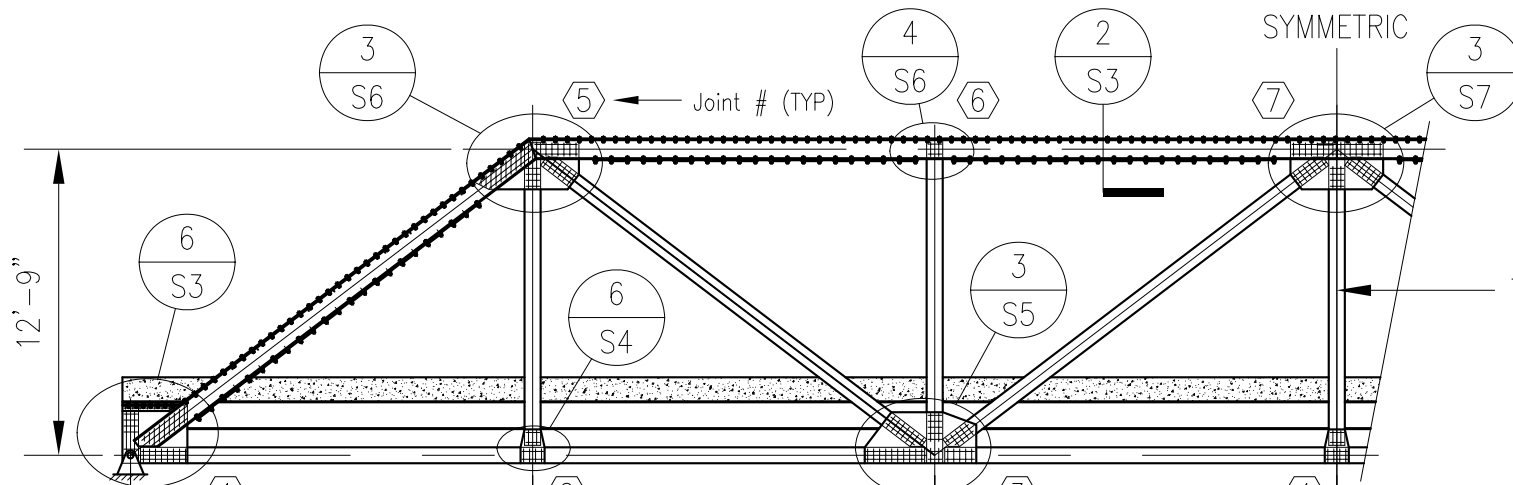


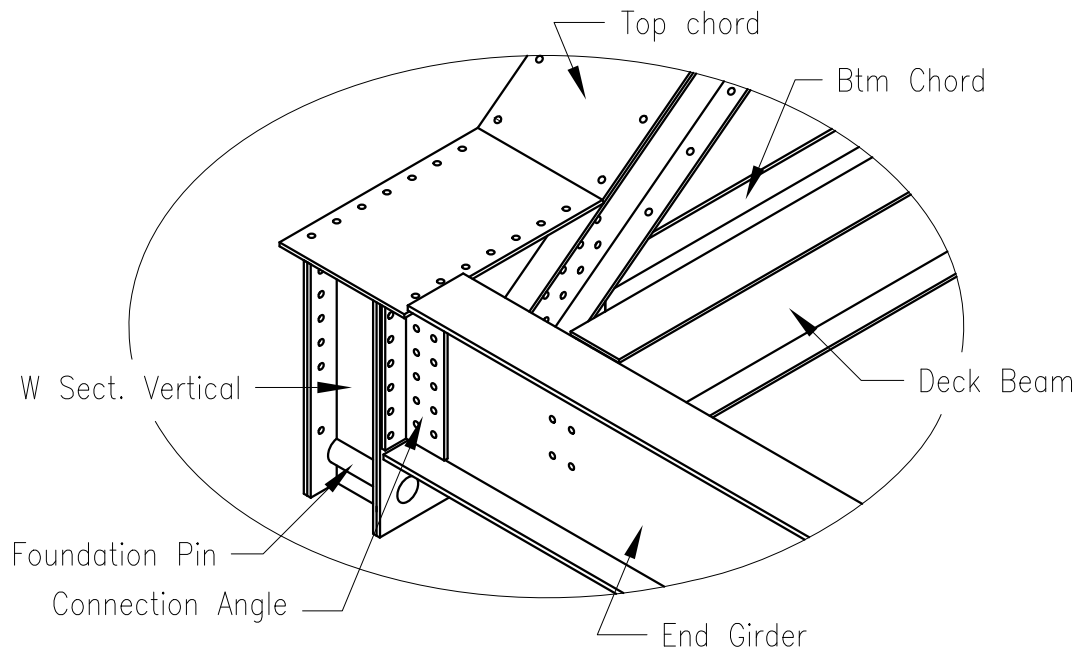


1 BRIDGE PLAN

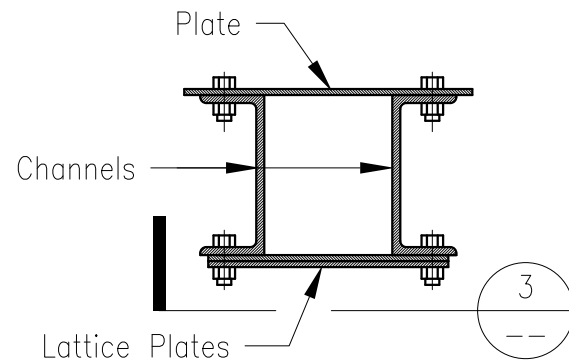
BGSCM: Bridge

SCALE: 1/8" = 1'-0"

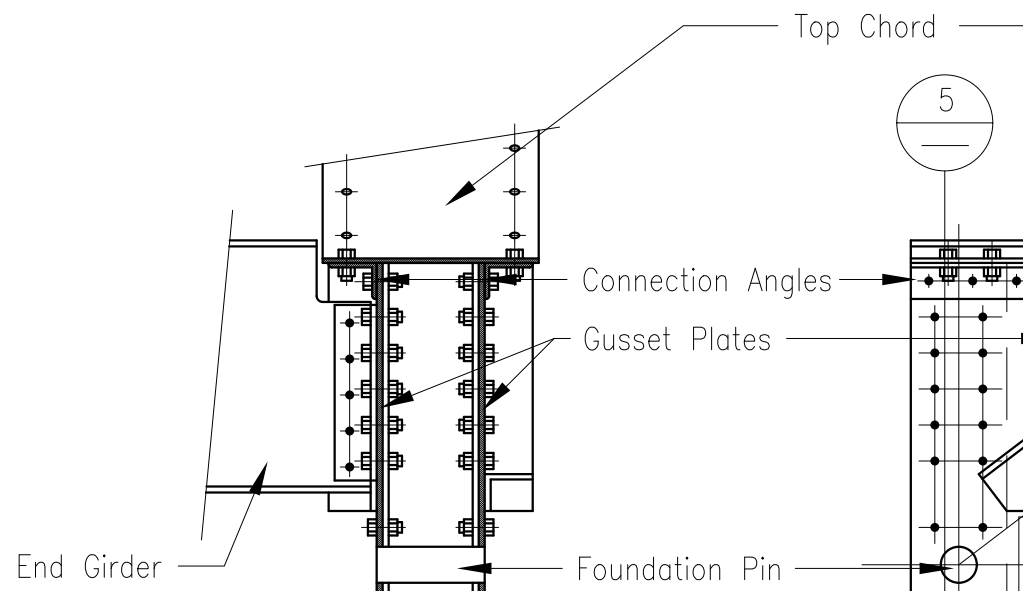
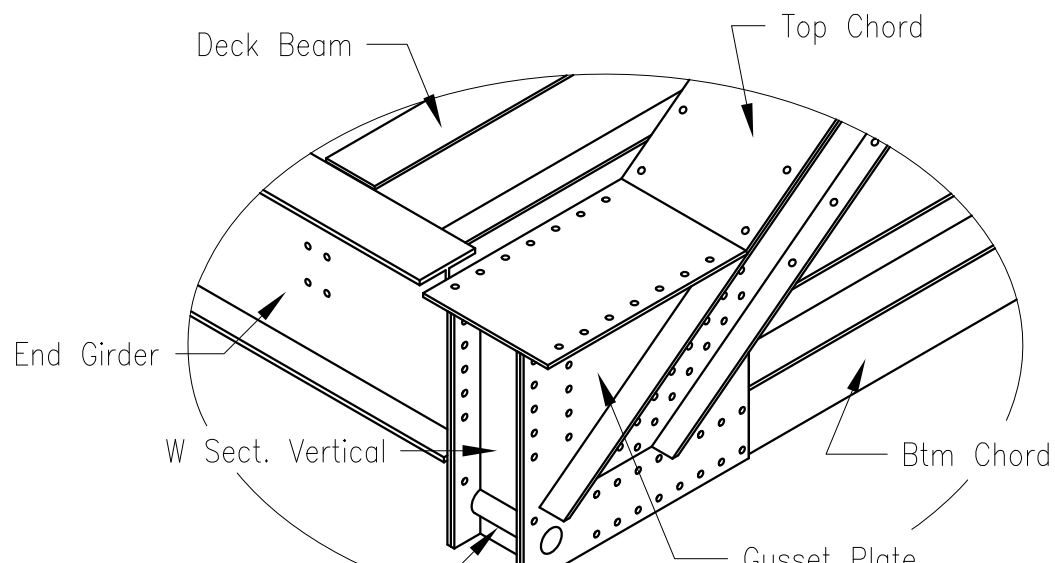


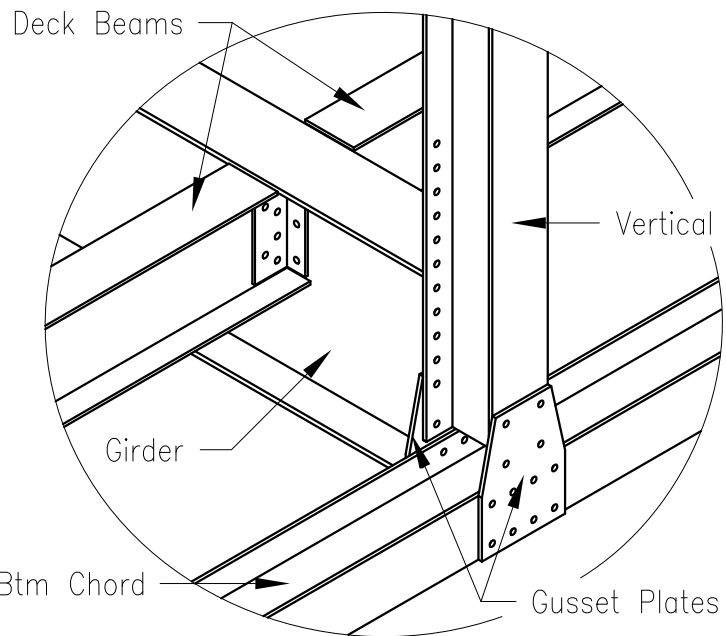


1 JOINT A ISOMETRIC VIEW
 BGSCM: Bridge SCALE: 1/2" = 1'-0"

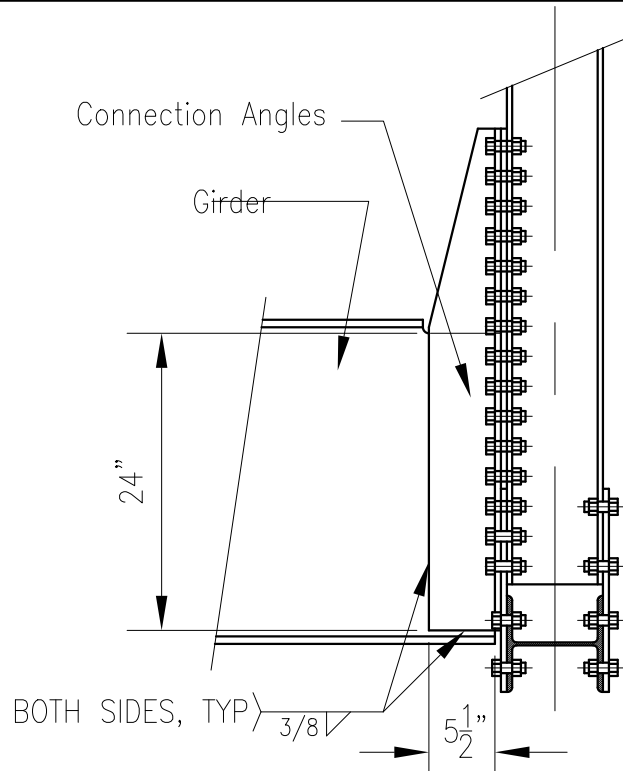


2 TOP CHORD SECTION
 BGSCM: Bridge SCALE: 1" = 1'-0"

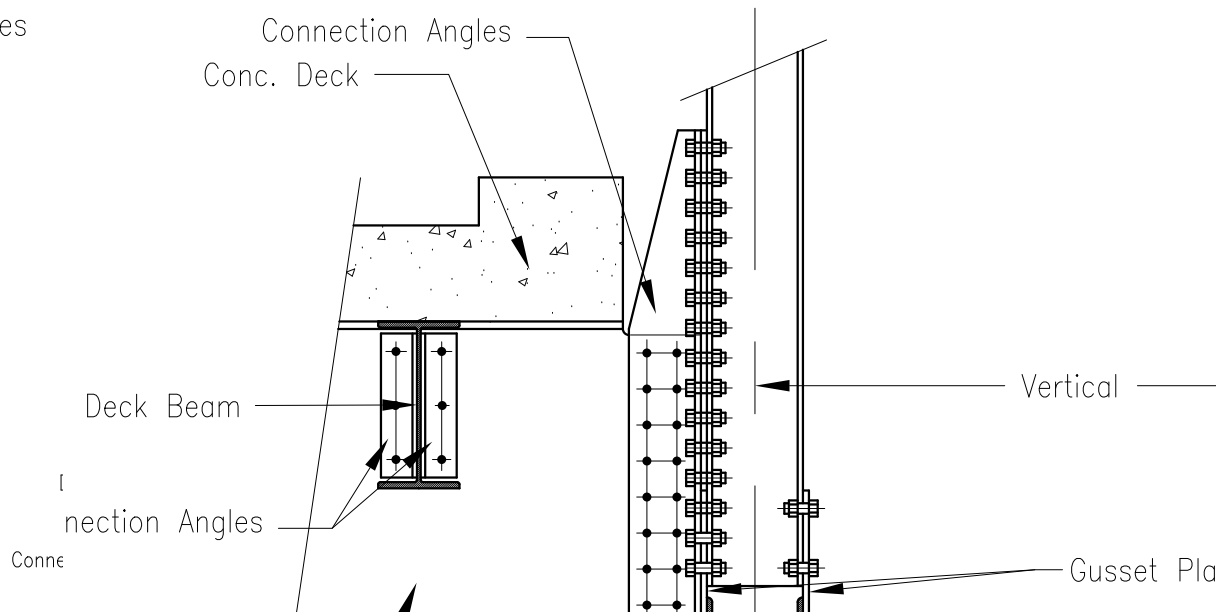
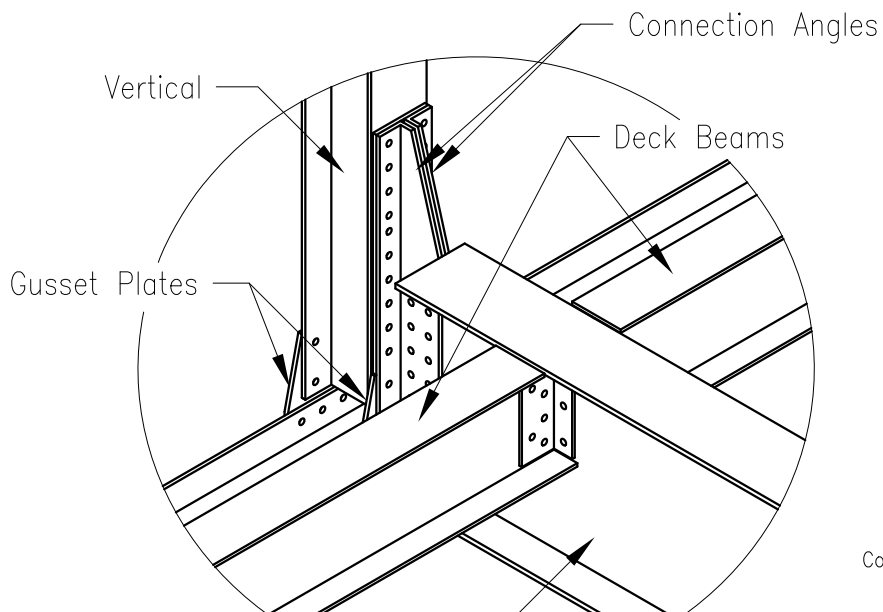




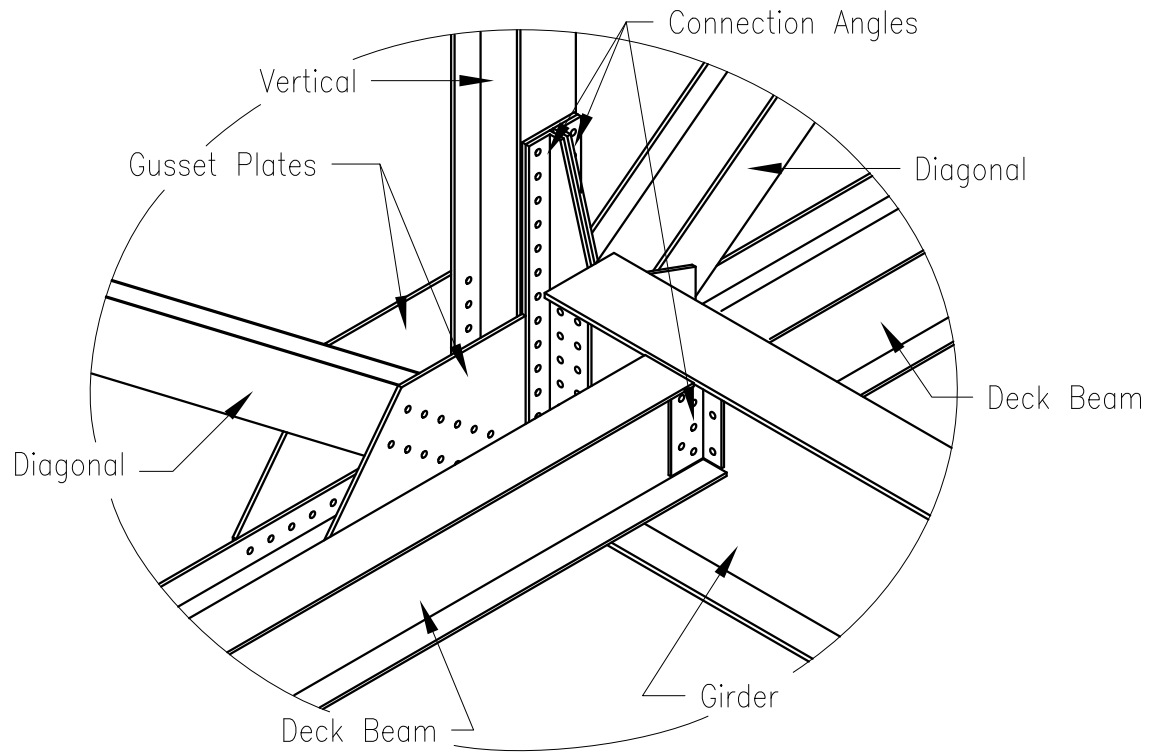
1 JOINT B ISOMETRIC VIEW
 BGSCM: Bridge SCALE: 1/2" = 1'-0"



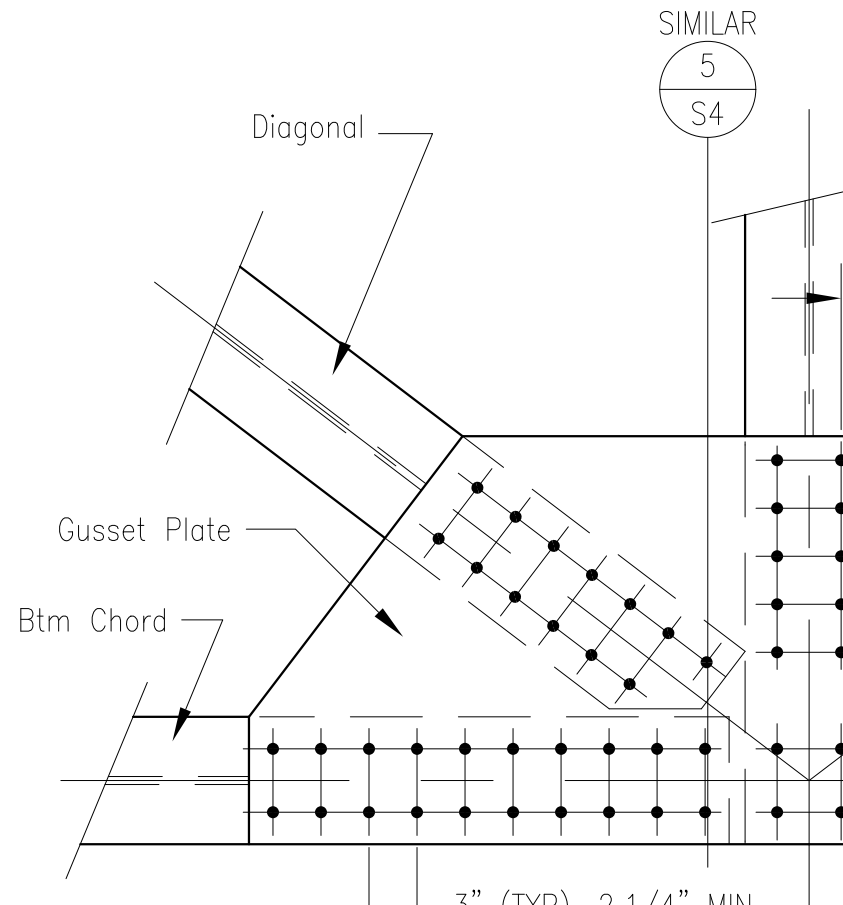
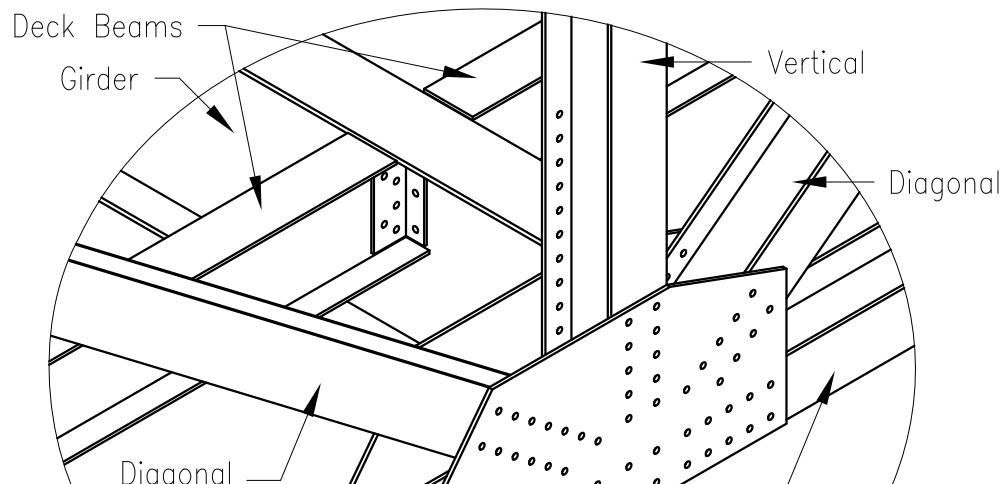
2 ALTERNATE GIRDER CONN.
 BGSCM: Bridge SCALE: 3/4" = 1'-0"

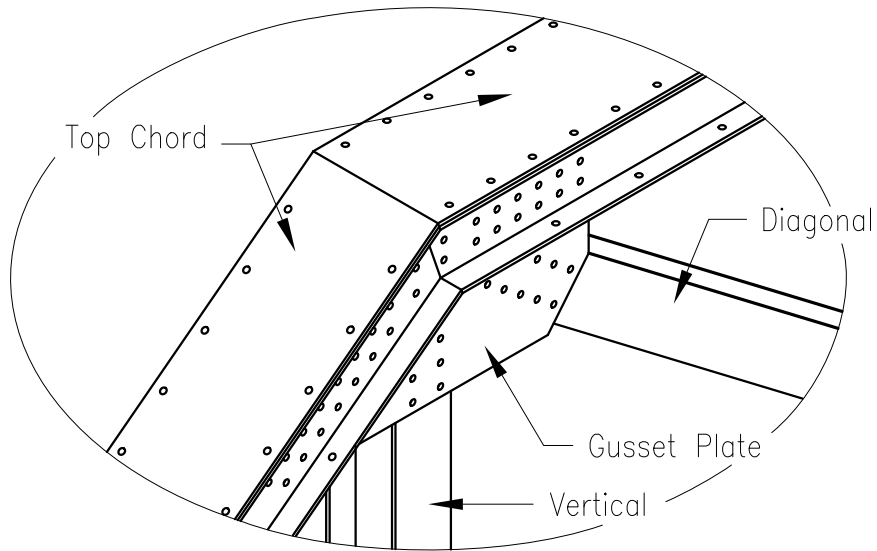


3



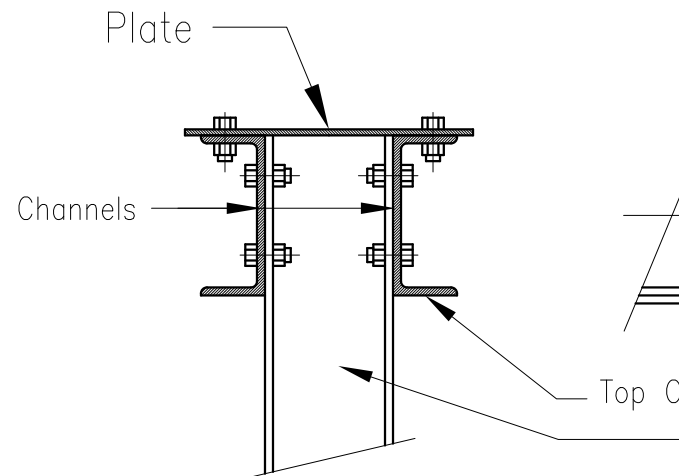
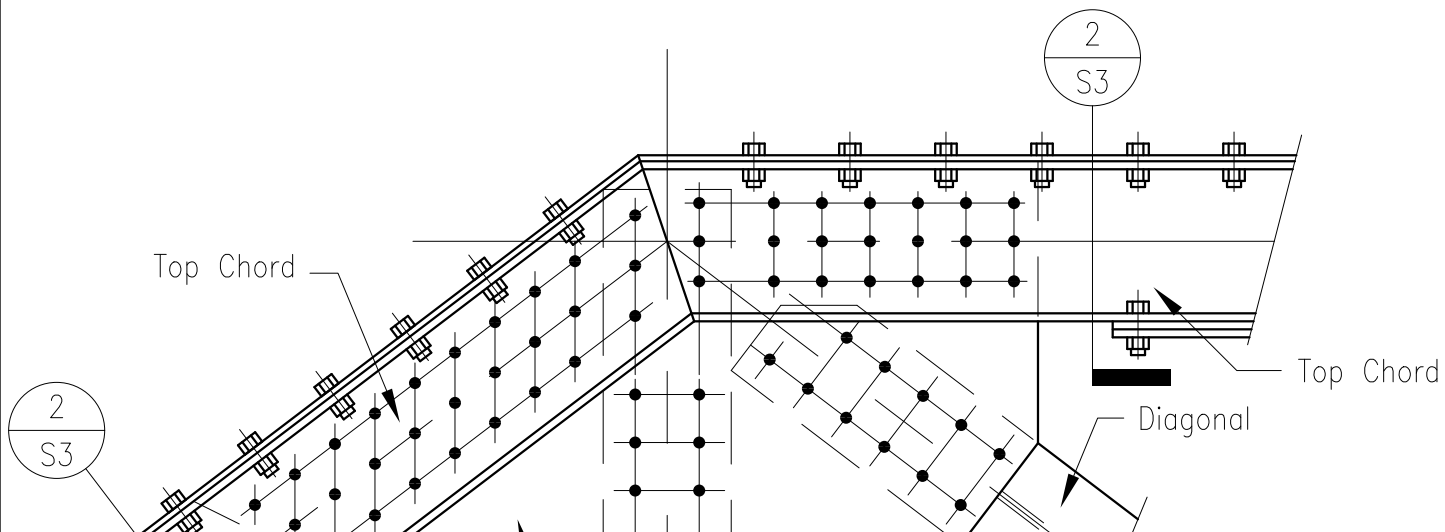
1 JOINT C ISOMETRIC VIEW
 BGSCM: Bridge SCALE: 1/2" = 1'-0"

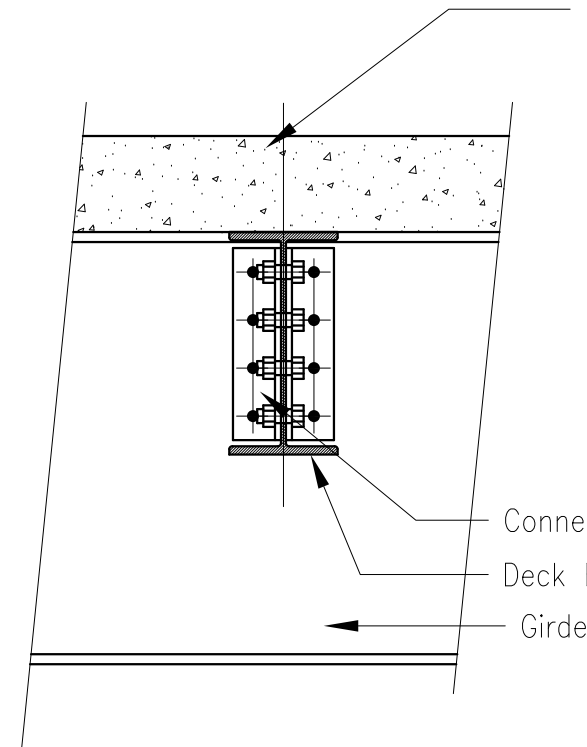
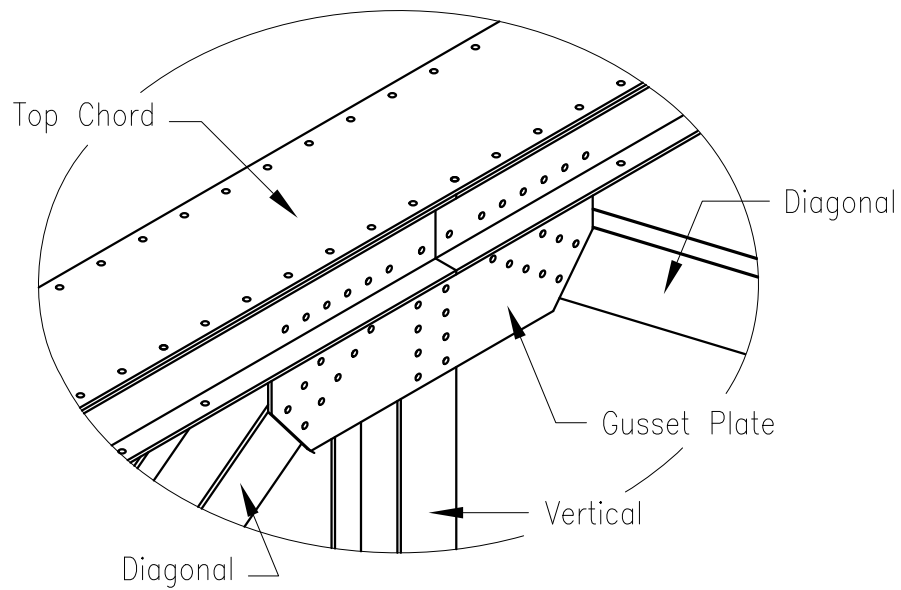




1 JOINT D ISOMETRIC
 BGSCM: Bridge SCALE: 1/2" = 1'-0"

2 JOINT E
 BGSCM: Bridge





1 JOINT F ISOMETRIC
 BGSCM: Bridge SCALE: 1/2" = 1'-0"

2 BEAM-BEAM CONNECTION
 BGSCM: Bridge

