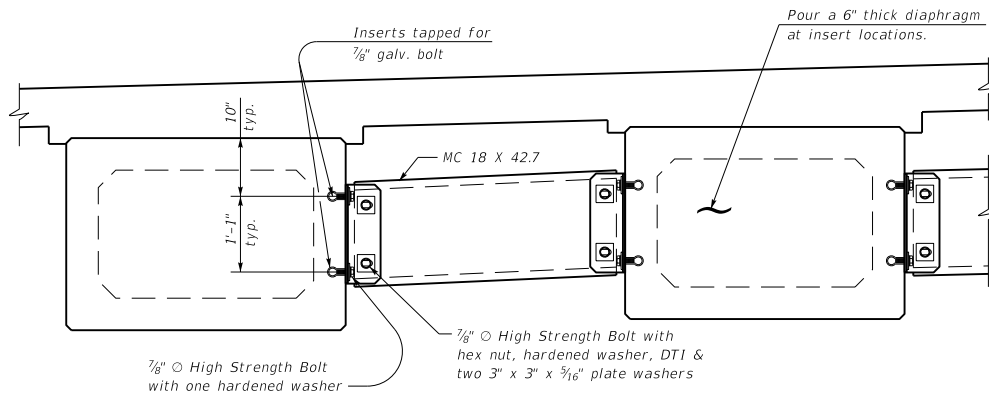
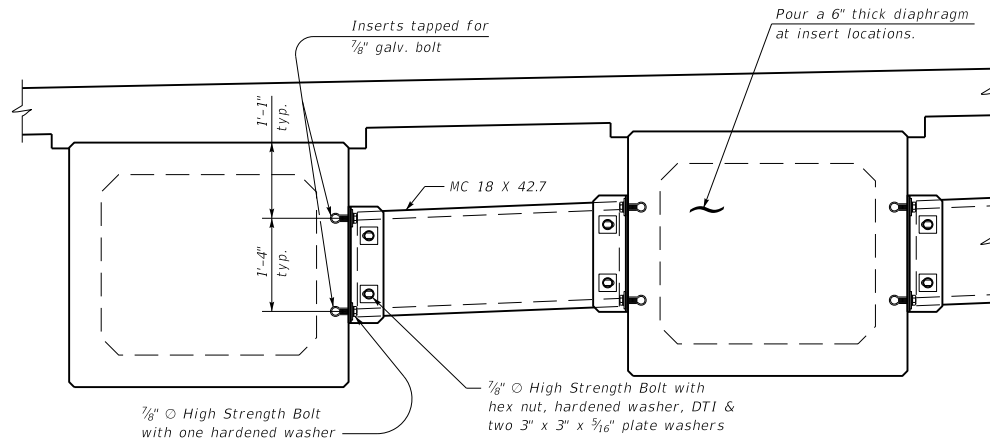
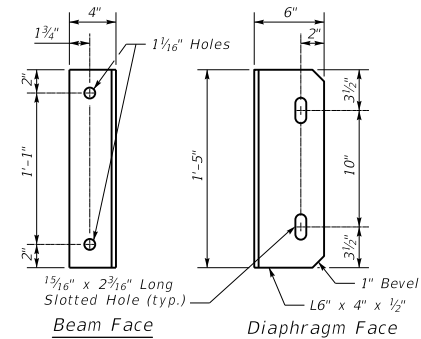




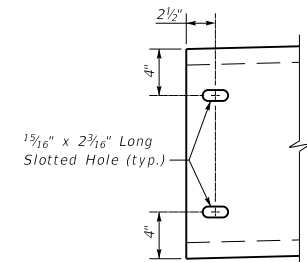
INTERMEDIATE DIAPHRAGM
~Typical for SB-33 Beams~



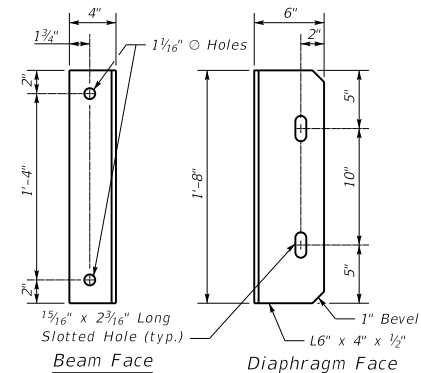
INTERMEDIATE DIAPHRAGM
~Typical for SB-42 Beams~



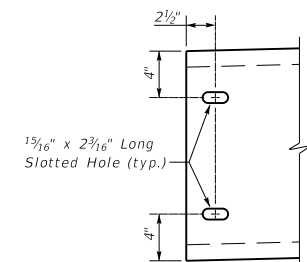
CLIP ANGLE



CHANNEL END



CLIP ANGLE



CHANNEL END

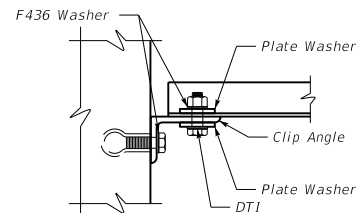
Diaphragm Notes

CONNECTIONS: Ensure all bolted connections are ASTM A325, 7/8 inch diameter high strength bolts, nuts, and washers, mechanically zinc coated in accordance with AASHTO M298, for Class 50. Install all high strength bolted field connections using "direct tension indicators" (DTI's) in accordance with the Standard Specifications and ASTM F959. Ensure all DTI's are mechanically zinc coated. Show installation details of the DTI's on the shop plans. Place DTI's under the bolt head.

STRUCTURAL STEEL: Ensure plates, angles, and channels conform to ASTM A36 or A572 and galvanized after fabrication.

SHOP DRAWINGS: Show the location of all inserts and holes on the precast beam shop drawings. Submit shop drawings for the steel diaphragms to the Division of Structural Design for approval.

DIAPHRAGMS: Erect the diaphragms the same day that the precast beams are placed on the substructure. Include the cost of all materials and labor required to fabricate and erect the diaphragms in the bid for Precast Beams.



CONNECTION DETAILS

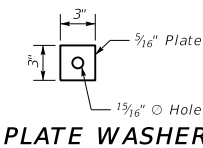


PLATE WASHER

**KENTUCKY
DEPARTMENT OF HIGHWAYS**

**BOX BEAM
DIAPHRAGMS**

STANDARD DRAWING NO. BSD-001	
SUBMITTED <i>B. J. Allen</i>	02-26-20
DIRECTOR DIVISION OF STRUCTURAL DESIGN	DATE
APPROVED <i>[Signature]</i>	02-26-20
STATE HIGHWAY ENGINEER	DATE