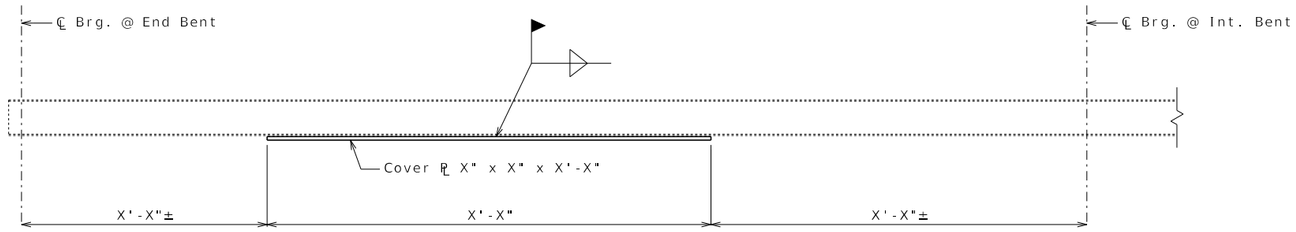
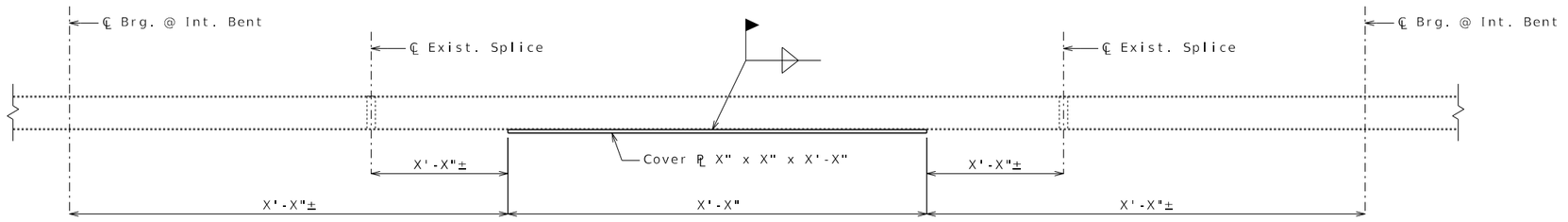


PART ELEVATION OF EXTERIOR BEAM SHOWING COVER PLATE INSTALLATION
SPAN (X-X) AND SPAN (X-X)

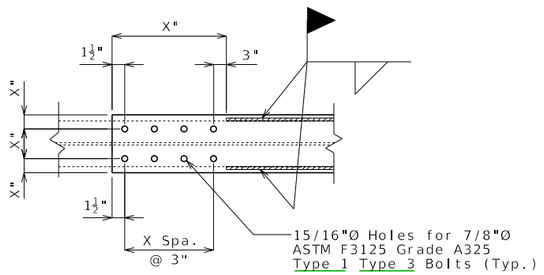


PART ELEVATION OF EXTERIOR BEAM SHOWING COVER PLATE INSTALLATION
SPAN (X-X)

Standard Drawing Guidance (do not show on plans):

① Use Type 3 for weathering steel bolted connections and Type 1 for plain or galvanized steel bolted connections.

Cover plate width must be at least 1" wider than existing bottom flange to allow for 5/16" top weld.



TYPICAL DETAIL OF THE
ENDS OF COVER PLATES
(BOTTOM VIEW)

Notes:

Beam with end-bolted cover plates shall be installed in the following sequence after existing bridge deck is removed:

1. Drill holes in cover plate and flange.
2. Clean faying surfaces. (See Special Provisions)
3. Install and tighten bolts.
4. Weld cover plate to flange.

Fabricated Structural Steel shall be ASTM A709 Grade 36, except as noted.

Payment for ____ pounds of new cover plates, complete in place, will be considered completely covered by the contract lump sum price for Strengthening Existing Beams.

Notch toughness is required for all cover plates.

Contractor shall verify all dimensions in field before finalizing the shop drawings.

STRENGTHENING EXISTING BEAMS

Detailed
Checked

Note: This drawing is not to scale. Follow dimensions. Sheet No. of

DATE PREPARED 4/28/2026
ROUTE STATE MO
DISTRICT SHEET NO. 3
COUNTY
JOB NO.
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)