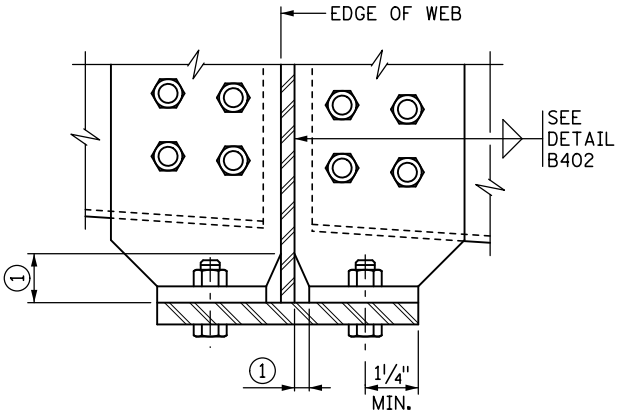
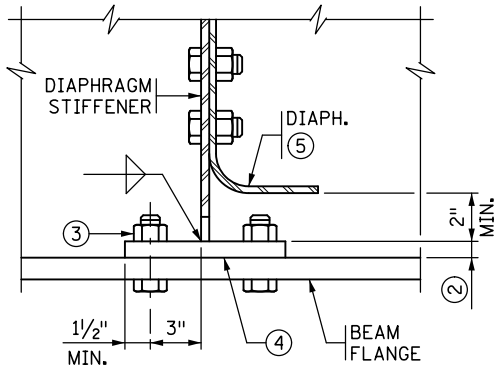


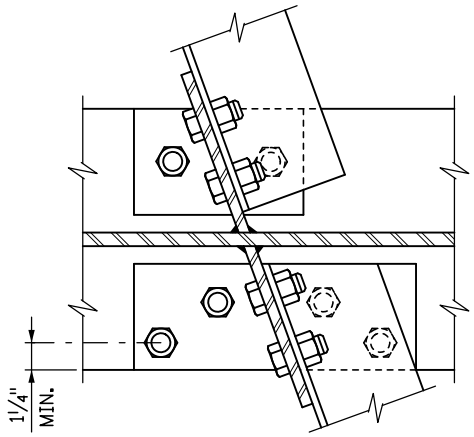
SECTION A-A

CONNECTION WITH 2 BOLTS
AT INTERIOR BEAMS



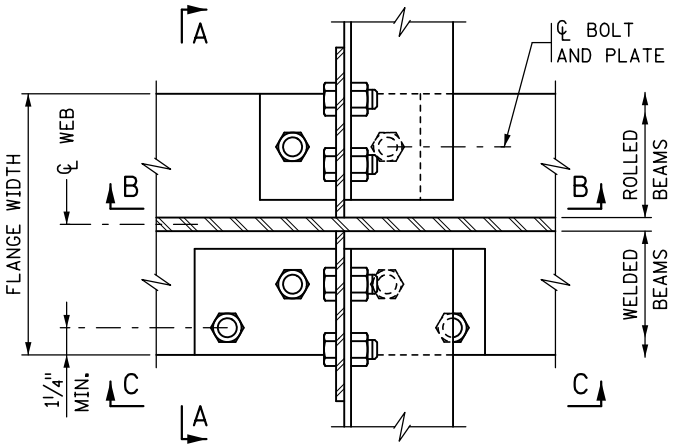
SECTION B-B

CONNECTION WITH 2 BOLTS



PLAN VIEW

AT INTERIOR BEAMS
(UP TO 20° SKEW)

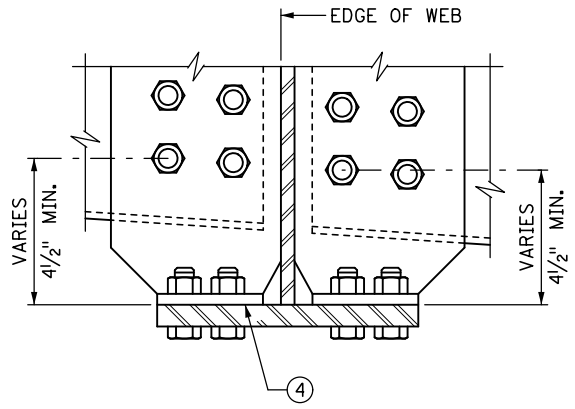


PLAN VIEW

AT INTERIOR BEAMS

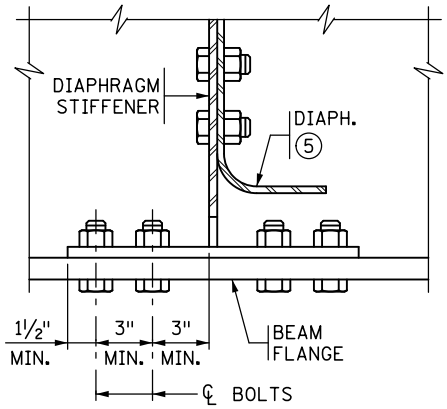
DESIGNER NOTE
(REMOVE PRIOR TO PLOTTING FINAL PLAN):

DETAILS SHOWN ARE FOR STRAIGHT BEAMS ONLY. DESIGNER MUST MODIFY THE NUMBER OF BOLTS AS NECESSARY FOR CURVED BEAMS.



SECTION A-A

CONNECTION WITH 4 BOLTS
AT INTERIOR BEAMS



SECTION C-C

CONNECTION WITH 4 BOLTS

NOTES:

PROVIDE STRUCTURAL STEEL PER SPEC. 3309.

(1) SEE DETAIL B411.

(2) MINIMUM PLATE THICKNESS IS ¾".

(3) BOLT PLATE TO BEAM FLANGE PRIOR TO WELDING PLATE TO DIAPHRAGM STIFFENER.

(4) REMOVE LOOSE SCALE AND RUST FROM CONTACT AREA AT DIAPHRAGM CONNECTION. PROVIDE FLAT AND PRIMED SURFACE.

(5) BENT PLATE DIAPHRAGMS SHOWN. FOR CROSS FRAME DIAPHRAGM SEE DETAIL B407 FOR STRAIGHT BEAMS AND DETAIL B408 FOR CURVED BEAMS.

APPROVED: NOVEMBER 22, 2002 Daniel L Morgan STATE BRIDGE ENGINEER	STATE OF MINNESOTA DEPARTMENT OF TRANSPORTATION BOLTED FLANGE TO STIFFENER DETAIL	REVISED 09-11-2004 10-28-2008 05-24-2012 01-05-2017	DETAIL NO. B410