DEPARTMENT OF TRANSPORTATION
STATE OF MINNESOTA

DETAILED NO.
B410

BOLTED FLANGE TO STIFFENER DETAIL

SECTION A-A
CONNECTION WITH 2 BOLTS AT INTERIOR BEAMS

SECTION B-B
CONNECTION WITH 2 BOLTS

SECTION A-A
CONNECTION WITH 4 BOLTS AT INTERIOR BEAMS

SECTION C-C
CONNECTION WITH 4 BOLTS

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.

NOTES:

1. SEE DETAIL B411.
2. MINIMUM PLATE THICKNESS IS 3/8".
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.

STATE OF MINNESOTA
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BOLTED FLANGE TO STIFFENER DETAIL

APPROVED: NOVEMBER 22, 2002
STATE BRIDGE ENGINEER