B402
Bolted Diaphragms (For Steel Beams)

Approved, and signed, March 26, 2009. Last date revised: January 5, 2017

Revised 01-05-2017
At the DESIGNER NOTES:
• Changed the note referencing the “MN/DOT LRFD Design Manual” to reference the “Bridge Design Manual”.

At SECTION A-A, SECTION B-B and INTERIOR BEAM detail:
• Removed the tail from the weld symbols.

UNDER NOTES:
• Changed all instances of “Mn/DOT SPEC.” to “PER SPEC.” within the notes and details.
• Updated notes to use active voice.

Re-Approved 03-26-2009
Various revisions were made to this detail including providing the designer an option in selecting the connection between the diaphragm connection stiffener and the flanges. Other changes include;

Under NOTES: Eliminated note ① "Weld size need not exceed 5/16" for intermediate diaphragm stiffeners". Removed all existing numbered notes ① from the sheet. Renumbered note ⑥ (“Use same shear stud height as used on the beams.”) to note ①. Replaced numbered note ⑥ with ① at the INTERIOR BEAM (at abutment diaphragms).

At SECTION A-A:
• Removed – "5/16" PLATE" note from the detail.

At FASCIA BEAM (At Pier and Intermediate Diaphragms):
• At the 6" and 3" dimensions between the flanges and the diaphragm, the word "(MIN)" has been replaced with a numbered note ④ in four locations.

At INTERIOR BEAM (At Pier and Intermediate Diaphragms):
• The top and bottom flange "TIGHT FIT…” notes have been replaced with a DESIGNER NOTE that gives the designer a choice of connection type.
• A 5/16" DIAPHRAGM PLATE note has been added.
• The " 3/8" x 7" PLATE FOR INTERMEDIATE DIAPHRAGMS…” note has been changed to read " 3/8" x 7" CONNECTION STIFFENER FOR INTERMEDIATE DIAPHRAGMS. SEE PLAN FOR STIFFENER SIZES OVER BEARINGS."

At FASCIA BEAM (At Abutment Diaphragms):
• At the 1.5" dimension between the top flange and the diaphragm, the word "(MIN)" has been replaced with a numbered note ⑤.

09-11-2004
Throughout detail: changed FACIA to FASCIA
changed title INTERMEDIATE BEAMS to INTERIOR BEAM

At INTERIOR BEAM – AT PIER AND INTERMEDIATE DIAPHRAGMS: changed 3/8" x 7" PLATE FOR INTERIOR DIAPHRAGMS. to 3/8" x 7" PLATE FOR INTERMEDIATE DIAPHRAGMS.

Approved, and signed, November 22, 2002.