B303
Sole Plate (Prestressed Concrete Beams) (For Bearings With Pintles)

Approved, and signed, September 22, 2011. Last date revised: December 20, 2018

**Revised 12-20-2018**
At Front Elevation:
- Added “MH AND” to the string of dimensions for the MW Shape Beams, both above and on the left side of the detail.

At Section A-A:
- Added “MH” to the string of dimensions on the left side of the detail that read “M, MN, AND RB SHAPE BEAMS”.
- Added “MH AND” to the string of dimensions for the MW Shape Beams below the detail.

At Designer Note:
- Added “If this sheet is modified, and a note on the beam sheet indicating that the sole plate has been modified, refer to B303.”

**Revised 01-05-2017**
Under NOTES:
- The notes were updated to use active voice.
- Removed all references to “MnDOT” within the notes.
- Removed the reference to “AASHTO” from numbered note 2.

**Re-Approved 09-22-2011**
Updated the detail to include MW shape prestressed beams.

Removed from the B detail: Front Elevation-Option 1, and the accompanying Section A-A and Section B-B.

At Front Elevation – Option 2:
- Changed the detail name from “Front Elevation – Option 2” to “Front Elevation”.
- Changed the section arrows from “C-C” to “A-A”.
- Changed the dimension line label at the Shear Stud spacing and the Sole Plate width locations from “27M – 81M and 14RB – 22RB Beams” to “M and RB Shape Beams”.
- Changed the dimension line label at the Shear Stud spacing and the Sole Plate width locations from “MN45 – MN63 Beams” to “MN Shape Beams”.
- Added a dimension line with two dimensions (13 3/8”) and (6”) and numbered note 2 to the Shear Stud spacing dimensions. Labeled the line: “MW Shape Beams”.
- Added a dimension line (3’-2 ¾”) for the Sole Plate width. Labeled the line: “MW Shape Beams”.
- Added ¾” dimension to the Sole Plate to show the thickness.

At Section C-C: Changed the detail name from “Section C-C” to “Section A-A”:
- Changed the dimension line label at the Pintle Hole spacing locations from “27M – 81M and 14RB – 22RB Beams” to “M and RB Shape Beams”.
- Changed the dimension line label at the Pintle Hole spacing locations from “MN45 – MN63 Beams” to “MN Shape Beams”.
- Added a dimension line with two dimensions (11 3/8”) and (8”) for the Pintle Holes. Labeled the line: “MW Shape Beams”.
- Added a label to the existing Sole Plate length dimensions (1’-3”) and (7 ½”) The label reads: “M, MN and RB Shape Beams”.
- Added two dimension lines (1’-5”) and (8 1/2”) to the Sole Plate length labeled the line: “MW Shape Beams”. Also added a designer note to the dimensions. Designer note reads: “Adjust this dimension for
large movement bearings and consider the effects on the bearings and the portion of the beam that
cantilevers beyond the bearing”.

Under Notes: Removed the slash from the Mn/DOT designation to read MnDOT throughout the sheet.

**Revised 03-30-2010**

AT General Notes:
- Changed numbered note ☳ From: The requirements for welding studs shall comply with AASHTO/AWS D1.5. to The requirements for welding studs shall comply with AASHTO/AWS D1.1.

**Revised 10-28-2008**

At FRONT ELEVATION – OPTION 2: changed **7/8” DIA. x 5” LONG UNHEADED SHEAR STUD (6 TYP.) to 7/8” DIA. x 4” TO 5” LONG UNHEADED SHEAR STUD (6 TYP.)**

At SECTION C-C: changed **7/8” DIA. x 5” LONG UNHEADED SHEAR STUD (6 TYP.) to 7/8” DIA. x 4” TO 5” LONG UNHEADED SHEAR STUD (6 TYP.)**

**Revised 06-14-2006**

At FRONT ELEVATION – OPTION 1, FRONT ELEVATION – OPTION2, SECTION A-A, and SECTION C-C:
- changed **27M – 72M BEAMS to 27M – 81 M AND 14RB – 22RB BEAMS**
- changed **MN 45 & MN54 BEAMS to MN45 – MN63 BEAMS**

Under NOTES: changed **PAYMENT FOR SOLE PLATES TO BE INCLUDED IN PRICE BID FOR Prestressed concrete beams. to SOLE PLATES ARE INCIDENTAL TO Prestressed concrete beams.**

**Re-Approved 10-26-2005**

At FRONT ELEVATION – OPTION 1, FRONT ELEVATION – OPTION2, SECTION A-A, and SECTION C-C: added MN45” and MN54” PCB dimensions.

**Revised 03-04-2004**

At FRONT ELEVATION – OPTION 2: changed **7/8” DIA. x 4” LONG SHEAR STUD (6 TYP.) to 7/8” DIA. x 5” LONG UNHEADED SHEAR STUD (6 TYP.)**

At SECTION C-C: changed **7/8” DIA. x 4” LONG SHEAR STUD (6 TYP.) to 7/8” DIA. x 5” LONG UNHEADED SHEAR STUD (6 TYP.)**

**Revised 06-11-2003**

At FRONT ELEVATION – OPTION 2: Changed **7/8” DIA. x 5” LONG SHEAR STUD (TYP. 6) to 7/8” DIA. x 4” LONG SHEAR STUD (6 TYP.)**

At SECTION C-C: changed **7/8” DIA. x 5” LONG SHEAR STUD (TYP. 6) to 7/8” DIA. x 4” LONG SHEAR STUD (6 TYP.)**

**Revised 06-09-2003**

At FRONT ELEVATION – OPTION 2:
- Changed **7/8” DIA. x 5” LONG HEADED SHEAR STUD (TYP. 6) to 7/8” DIA. x 5” LONG SHEAR STUD (TYP. 6)**
- Added note ☳ to weld symbol

At SECTION C-C: changed **7/8” DIA. x 5” LONG HEADED SHEAR STUD (TYP. 6) to 7/8” DIA. x 5” LONG SHEAR STUD (TYP. 6)**
Under NOTES: added note © THE REQUIREMENTS FOR WELDING STUDS SHALL COMPLY WITH AASHTO/AWS D1.5.

Revised 04-29-2003
Added Option 2 allowing six shear studs in place of the two square bars.

Under NOTES: added WELDED STUDS TO BE WELDABLE CARBON STEEL PER Mn/DOT SPEC. 3391.2D.

Approved, and signed, November 22, 2002.