

## **B311**

### **Curved Plate Bearing Assembly (Prestressed Concrete Beams) (Expansion)**

Approved, and signed, September 22, 2011. Last date revised: November 3<sup>rd</sup>, 2015

#### **Revised 11-03-2015**

At SECTION Y-Y:

- Changed from welded “keeper” studs” to a welded “keeper” bar.
- Added the 3/16” fillet weld symbol to the welded bar on the lower left side of the detail.
- Changed the “Welded Stud (Typ.) ④” to “Welded Bar (Typ.) ④”

At SECTION X-X:

- Changed the shape of the beam *from* an M *to* a MN shape. Also made the change at the “Side Elevation”.
- Changed the note pointing to the beam to read: MN shape (other shapes similar).

Under NOTES:

- Changed all notes to “Active Voice” if needed.
- Changed numbered note ③ to read: 3/8" x 3/8" bar installed on bearing plate around perimeter of bearing pad. Bar length is 2" less than adjacent pad dimension, centered on pad. Centerline of bar to edge of pad dimension = 1/2".

ADDED:

- “RB” (to represent the Rectangular Beam) to the Beam Size column in the TABLE.
- Added “RB” to accompany the M, & MN shapes within the Designer Note.

#### **Re-Approved 09-22-2011**

Updated the detail to include MW shape prestressed beams.

At TABLE: under the Beam Size column, added “M & MN” to the first row of dimensions.

- Added another row of dimensions for the MW shape to the table.

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

Changed the Designer Note to read: “Minimum size of bearing pad, 12” x 24”, is shown for M & MN shapes  
16” x 36”, is shown for MW shapes”

#### **Revised 03-30-2010**

At SECTION X-X: Removed subtitle “2'-2” BOTTOM FLANGE SHOWN”.

- Added dashed line representing the MN SHAPE.
- Added labels to the M SHAPE and the MN SHAPE lines.

THROUGHOUT SHEET: Made adjustment to the “hatching” on multiple details for consistency.

#### **Revised 10-28-2008**

At SECTION Y-Y: changed THE PINTLE-TO-CURVED PLATE WELD DETAILS TO MATCH THE WELD SYMBOL.

#### **Revised 08-10-2006**

Under NOTES: Revised ① *from* THE MIN. RADIUS OF THE CURVED PLATE IS SHOWN. THE MAX. RADIUS IS 30". FINISH TO ... *to* THE MIN. RADIUS SHALL BE 16" UNLESS OTHERWISE SPECIFIED IN THE TABLE. THE MAX. RADIUS SHALL BE 24". FINISH TO ...

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

At SECTION X-X: Added subtitle: 2'-2" BOTTOM FLANGE SHOWN

**Revised 04-20-2004**

In the TABLE:

- Added CURVED PLATE column
- Changed dimension F *from*  $1\frac{3}{8}$ " *to*  $1\frac{1}{2}$ "
- Changed dimension J *from*  $1\frac{3}{8}$ " *to*  $1\frac{1}{4}$ "

Under NOTES: Revised ① *from* THE RADIUS OF THE CURVED PLATE SHALL BE 1'-4" MINIMUM AND 2'-0" MAXIMUM. FINISH TO 250 ... *to* THE MIN. RADIUS OF THE CURVED PLATE IS SHOWN. THE MAX. RADIUS IS 30". FINISH TO 250 ...