**Standard Drawing Guidance (do not show on plans):**

1. Use 2'-6" for box beams 3'-3" and shorter, and use 4'-6" for box beams taller than 3'-3".
2. For skewed box beams, the 15" dimension is measured from the obtuse corner of the box to the lifting loop. In the Location of Lifting Loops detail, revise 15" to Varies.
3. S5 and S6 bars for skewed box beams shall be shown and annotated with S5, referencing a note to be added. Spay and cut to fit. S5 and S6 bar size should match S1, S2 & S3 bar size.
4. Vent pipe shall be added when box beam is to be placed over water. Dimensions from the end of box beam to the end of vent pipe shall be added and a column added to the Table of Dimensions for Plan of Beam for Dimension F if vent is not centered. Dimensions F and G if vent is not centered.

**Notes:**

1. For skewed box beams, face of void shall be parallel to the end of box beam with a chamfered corner at the acute corner.
2. When strands are placed continuously at 2" cts (4" space is eliminated), orange drain hole dimension is added.
3. Ends of box beams shall not be placed more than 15°. This limit is to help prevent warping of the ends due to eccentric prestress forces.

**Details of Coil Ties:**

- Left Ë Brg. to Right Ë Brg.
- 3/4" Ø drain hole
- 1 1/2" Ø vent pipe
- Bead to bead
- 3/4" Ø weld stud

**Details of Welded Studs:**

- 1 1/2" Ø welded stud
- Bead to bead
- 1 1/2" Ø vent hole

**Details of Strand Ties:**

- 1 1/2" Ø strand tie bar
- Bead to bead
- 1 1/2" Ø vent hole

**Details of End Bents:**

- 3" (Min.) Ø bending plate
- 1 1/2" Ø bending plate
- 3/4" Ø drain hole
- 1 1/2" Ø vent pipe
- Bead to bead
- 3/4" Ø weld stud

**Table of Dimensions for Plan of Beam:**

<table>
<thead>
<tr>
<th>Dimension</th>
<th>Left Ë Brg.</th>
<th>Right Ë Brg.</th>
</tr>
</thead>
<tbody>
<tr>
<td>F</td>
<td>1 1/2&quot; Ø vent pipe</td>
<td>1 1/2&quot; Ø vent pipe</td>
</tr>
<tr>
<td>G</td>
<td>3/4&quot; Ø drain hole</td>
<td>3/4&quot; Ø drain hole</td>
</tr>
<tr>
<td>H</td>
<td>3&quot; Ø bending plate</td>
<td>3&quot; Ø bending plate</td>
</tr>
<tr>
<td>I</td>
<td>1 1/2&quot; Ø bending plate</td>
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