**Concrete face may be sloped with a maximum 1:24 draft to facilitate formwork removal.**

*DIM. B is 1'-6" for Florida U 48 and 54 Beams and 2'-0" for Florida U 63 and 72 Beams.*

**NOTE:**

Work this Index with Florida U Beam - Table of Beam Variables in Structures Plans.

TYPICAL FLORIDA-U BEAM DETAILS AND NOTES
**Composite Neoprene Bearing Pad**

**Beam Type**
- Florida U48 & U54
- Florida U63 & U72

No losses shall be applied when calculating the Bonded Prestress Force.

The reinforcing in the ends of the beams must not be modified without the approval of the State Structures Design Engineer.

**NOTE:**
Work this Index with Florida U Beam - Table of Beam Variables in Structures Plans.

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**Temporary Blocking of Beam Ends**

1. All bar dimensions are out-to-out.
2. Strands N (Dormant Strands) shall be either ASTM A416, Grade 250 or Grade 270 seven-wire strands \( \frac{3}{4} \) or larger, stressed to 10,000 lbs each.
3.Unless otherwise noted in Structures Plans, the minimum concrete cover for reinforcing steel shall be 2".
4. At the option of the Contractor and with the Engineer's Approval, pre-stressed wire reinforcement may be used in lieu of Bars 6A1, 4A2, 5D, 4C, 3D, 5E, 4F, 5K, SL and LM except as noted in note 7, provided the wire sizes and spacing match those shown on the Standard Beam Detailsheets for these bars. Wires shall be deformation conform to ASTM AASHTO.
5. Place \( \frac{3}{4}" \) NPS x 5" PVC Sch 40 Safety Sleeve with cap in both top flanges spaced on 9'-0" (Max.) centers. Shift Bars SK & LM locally to allow placement.
6. Note shall be free of debris and water prior to pouring deck.
7. Wires shall be deformation shall not be used for the end reinforcement (Bars SL, 4C, 3D, 5E, 4F, 5K, and SK) on the limits of "DIM. B" shall be formed at equal spaces.
8. Bars SK shall be placed and tied to the fully bonded strands in the bottom row (see "STANDARD PATTERN" in Structures Plans).
9. Strand Protection at beam ends shall consist of a 2" deep recess formed around all strands (including dormant) or strand groups. Extend recess to face of web and bottom of flange for bottom row of strands. After detensioning, cut strands \( \frac{3}{4}" \) from recessed surface and fill the recess with a Type F-2 or Q Epoxy Compound in accordance with Section 926 of the Specifications.
10. Use Size No. 67 maximum sized aggregate.
11. Use Stay-in-Place metal deck forms inside the beams.
12. Prior to deck placement, based on the deck forming system and deck placement sequence, evaluate and provide, if necessary, temporary bracing between the U Beams. Also, prior to deck placement, provide temporary blocking under each web at both ends of every beam. Ensure the temporary blocking is adequate to resist movements and rotations that occur during placement of the deck. Leave temporary blocking and bracing in place for a minimum of four days after the deck placement.
13. For referenced Dimensions, Angles and Case Numbers see Table of Beam Variables in Structures Plans.

**INSTRUCTIONS TO DESIGNER:**
To limit vertical splitting forces in the ends of beams, the maximum prestress force at beam ends from fully bonded strands must be limited to the following:

<table>
<thead>
<tr>
<th>Beam Type</th>
<th>Prestress Force</th>
<th>Index No.</th>
<th>Issue Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Florida U48 &amp; U54</td>
<td>2790 Kips</td>
<td>2048 &amp; 2054</td>
<td>07/01/05</td>
</tr>
<tr>
<td>Florida U63 &amp; U72</td>
<td>3070 Kips</td>
<td>20263 &amp; 20272</td>
<td>07/01/05</td>
</tr>
</tbody>
</table>

No losses shall be applied when calculating the Bonded Prestress Force. The reinforcing in the ends of the beams must not be modified without the approval of the State Structures Design Engineer.