condition 1
(p = 0.0)

condition 2

schematic end elevations of beams
(showing vertical bevel of beam end)

condition 3

front face of backwater & pier or bent

front face of backwater & pier or bent

outside edge of top flange

outside edge of bottom flange

end 1
direction of stationing

end 2

case 1

schematic plan views at beam ends

case 2

case 3

note:
work this index with florida u beam - table of beam variables in structures plans.
**BEAM NOTES**

1. All dimensions are cut-to-cut.
2. Strands in (dormant strands) shall be either ASTM A416, Grade 250 or Grade 270, seven-wire strands 7/8" or larger, stressed to 20,000 lbs each.
3. Unless otherwise noted in Structures Plans, the minimum concrete cover for reinforcing steel shall be 2".
4. All strain on the Contractor and with the Engineer's approval, deformed welded wire fabric may be used in lieu of bars E44, E42, 5R, 4C, 20, SE 4F, 4G, 4H, 5K, 5L, and 4M except as noted below. In Note 7, provided the wire ages and spacing match those shown on the Standard Beam Detail Sheets for these bars. Welded wire fabric shall conform to ASTM A497.
5. Place 25/32" NPS x 5" PVC Sch 40 Safety Sleeves with cap in both top flange spaces on 8-1/2" (Max.) centers. Shift bars 5K & 4M locally to allow placement. Nails shall be free of debris and water prior to casting deck.

6. For Beams with vertically beveled end conditions when "Dfm P" exceeds 1", Bars SE and the first bars 4F and 5K shall be placed parallel to the end of the beam. The remaining Bars 4G and 5L within the limits of "Dfm P" shall be formed at equal spaces.
7. Welded deformed wire fabric shall not be used for the end reinforcement (Bars SB, 4C, 20, SE 4F, 4G, 4H, 5K, and 5L) for beams with skewed and conditions or vertically beveled end conditions when "Dfm P" exceeds 1".
8. Bars 5K shall be placed and tied to the fully bonded strands in the bottom row (see "STRAND 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 5/8" from recessed surface and fill recess with a Type F-2 Epoxy Compound in accordance with Section 926 of the Specifications.
10. The Contractor shall use No. 67 maximum sized aggregate.
11. Stay-in-place metal deck forms shall be used inside the beams.
12. The Contractor shall evaluate the need for temporary bracing between U Beams, based on the selected deck forming system and concrete placement sequence. In addition, timber blocking shall be placed beneath the exterior face of the web at the top of all beams, prior to deck casting. Blocking shall be left in place for at least 4 days after deck casting and afterwards removed at the Contractor's convenience.
13. For referenced Dimensions, Angles and Case Numbers see Table of Beam Variables in Structures Plans.

**INSTRUCTIONS TO DESIGNER:**

To limit Bursting Forces, the maximum prestress force at beam ends from fully bonded strands must be limited to the following:

Max. Bonded

<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 U6 &amp; U7</td>
<td>3070 kips</td>
<td>20263 &amp; 20272</td>
<td>07/12/05</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.

**NOTE:**

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