BEAM NOTES
1. All bar dimensions are out-to-out.
2. Place two (2) Bars 52 at each end, and have one (1) Bar 4K each location as detailed alternating the direction of the ends for each bar (see "ELEVATION AT END OF BEAM").
3. Bars 4K shall be bent prior to the beam leaving the prestressing yard. Bars 4L shall be bent parallel to the ends of the beams.
4. Caution should be used with Bars 4L in the ends of exterior beams to assure the bent portion of the bar is properly oriented so that the bar will be embedded in the slab or beam concrete.
5. Strand N shall be either ASTM A416, Grade 250 or Grade 270, seven-wire strands 3/8" or larger, stressed to 10,000 lbs.
6. Unless otherwise noted, the minimum concrete cover for reinforcing steel shall be 2".
7. At option of the Contractor, welded deformed wire reinforcement may be used in lieu of Bars 30, 4K, and 4L, except as noted below for skewed end conditions. The wire shall be No. 30 shown on the Standard Beam Details sheet for these bars. In this event, Bars 4K may be fabricated with the omission of the lower end only (increase beam depth from mid-depth of beam. Welded wire reinforcement shall conform to ASTM A497. When welded deformed wire reinforcement is used, the end bars shall remain conventional reinforcing.
8. For beams with skewed end conditions, welded deformed wire reinforcement shall not be used in the end beamed widths of Beams 30. The end reinforcement, defined as Beams 30, 302, 4K, and 52, placed within the limits of the driving for Beams 30 (approximately 1.5 times the overall beam depth) in "ELEVATION AT END OF BEAM" shall be placed parallel to the skewed end of the beam. Beams 4K located toward the limits of Beams 30 shall be placed perpendicular to the longitudinal axis of the beam. Placement of Beams 30 and 302 correspond to Beams 30 and 4K, respectively, as shown in the beam elevations at the ends of Beams 30 and 322 (Dimension B) and the overall length shall be adjusted to fit the width of the bottom flange measured parallel to the skew.
9. Bars 4K and 52 shall be placed and tied to the fully bonded strands (see "STRAIN PATTERN").
10. Bars 30 shall be bent around a 1'-0" diameter pin.
11. For Bearing and Framing Details, see Structures Plans.
12. For Camber and Build-Up Details, see Structures Plans.
13. For referenced Dimensions, Angles and Case Numbers see Inverted-T Beam = Table of Beam Variables in Structures Plans.
14. For thickened decks beneath Traffic Railings and Parapets increase Optional Deck Forming Notch to provide the deck thickness shown in the Structures Plans.

INSTRUCTIONS TO DESIGNER:
To limit vertical splitting forces in the webs of beams, the maximum prestress force at beam ends from fully bonded strands is limited to 320 kips. 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.

EXTERIOR TRAFFIC RAILING
- SCHEMATIC SECTIONS FOR DECK THICKENING BENEATH TRAFFIC RAILINGS

INTERIOR TRAFFIC RAILING
- SCHEMATIC SECTIONS FOR DECK THICKENING BENEATH TRAFFIC RAILINGS

2010 FDOT Design Standards
TYPICAL INVERTED-T BEAM DETAILS AND NOTES

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