

## ALTERNATE REINFORCING STEEL (WELDED WIRE REINFORCEMENT) DETAILS Bars 5Y (16 Required) -Wires D31 (shown $18 \sim D16's @ 6'' sp. = 8'-6'$ D16's @ 1'-0" sp. as(O) Typ.) End of Varies Varies 9" Max. Beam - Optional W6.4 W6.4 1'-0" Max. - Optional W6.4 - W6.4 W6.4 D16-Optional W6.4 D16 -. . . . . . . . . © ₩6.4 21/4" Cover Pieces K-1 Pieces K-2 1" extension (Offset) (Tvp.)SECTION A-A PLAN VIEW PLAN VIEW FOR WELDED WIRE REINFORCEMENT 5½" ± PIECE M-1 PIECE M-3 PIECES M Piece M-1 tied Match spacing of END VIEW (2 Required) (2 Required) Pieces S (Single Mat) Tied ad jacent Piece S-1, to Piece K-2 S-2, S-3 or S-4 to Strands at ( Beam) $14 \sim D25's (FF) @ 6'' = 6'-6''$ S1 ~ D25's @ V1 sp. (Piece S-1 shown) Pieces M-3 End of Beam -6 ~ D31's @ 31/5" $14 \sim D25's (BF) @ 6'' = 6'-6''$ S2 ~ D25's @ 9" sp. (Piece S-2) $sp. = 1'-5\frac{1}{5}$ " S3 ~ D25's @ 1'-0" sp. (Piece S-3) S4 ~ D25's @ 1'-6" sp. (Piece S-4) 2" Cover 3" Offset 6" 25/8" Cover (Typ.) Varies 9" Max. 3¾" ± (Typ.)(Typ.)PARTIAL SECTION AT CENTER BEAM Pieces K (Pairs) ~W12.4 (Piece K-1) Pieces M-1 W10 (Pieces K-2 & S) W10) → D31 (Piece K-1) D25 (Pieces K-2 & S) Wires (W12.4 or 21/4" Cover -W12.4 (Piece K−1) δ Symmetrical) W10 (Pieces K-2 & S) Pieces D Piece Cover (Pairs) Cross - 1" extension (Typ.) PIECES K & S PIECE K-2 PIECE K-1 PIECE S-1, S-2, S-3 or S-4 END VIEW (Aligned EF) (FF Shown Solid, BF Shown Dashed) (2 Required ~ Each Piece) PARTIAL BEAM END VIEW (Conventional Reinforcing Bars A, C, Y (4 Required (4 Required) Piece D-1 ties and Strands N not Shown for Clarity) ~ 2 Pairs) to Piece K-1 -NOTES: 6 ~ D11's @ 3½" 1'-3" 14 ~ D11's @ 6" sp. = 6'-6" D11's @ 1'-6" spaces a. See Sheet 1 for placement details & Table of Beam Variables $sp. = 1'-5\frac{1}{2}''$ Varies 1'-6" Max. in Structures Plans for variables S1, S2, S3, S4 & V1. Varies 9" Max ₩4.4 b. Place Conventional Reinforcement Bars 6A & 3C as shown on Sheet 1. Place additional Bars 5Y as shown in Section A-A for Welded Wire Reinforcement. Bars 5Z will not be used with c. Pieces may be fabricated in multiple length sections. d. For beams with skewed end conditions, Pieces D-1, D-2 & 31/4" ∠ D11 (Typ. Pieces M-1 shall not be used; Conventional Reinforcement Bars D1, - 1" extension (Typ.) D-1, D-2 & D-3) LEGEND: 1'-111½" D2, C1, C2, M1 & M2 shall be used. See Index No. 20010 EF = Each FaceSkew Details and Note 9 for placement details. Shift Pieces K FF = Front Face PIECE D-1 PIECE D-2 PIECE D-3 PIECES D & Bars 5Y to accommodate skewed end conditions and align BF = Back Face(4 Required ~ 2 Pairs) (4 Required ~ 2 Pairs) (4 Required ~ 2 Pairs) END VIEW with Bars C and D. DESCRIPTION: INDEX SHEET 2016 **REVISION** NO. NO. **FDOT** FLORIDA-I 78 BEAM - STANDARD DETAILS **DESIGN STANDARDS** 07/01/10 20078 2 of 2