



Florida Department of Transportation

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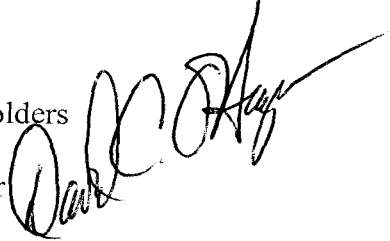
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Mail Station 32

ROADWAY DESIGN BULLETIN 06-01

DATE: January 20, 2006

TO: District Design Engineers, Plans Preparation Manual Holders

FROM: David C. O'Hagan, PE, State Roadway Design Engineer 

COPIES: Robert Greer, Brian Blanchard, John Harris, William Nickas,
Duane Brautigam, Lap Hoang, Chris Richter, FHWA

SUBJECT: Design Standards Modifications July 1, 2006

The Design Standards Modifications to the 2006 Design Standards booklet, Effective Date July 1, 2006, has been posted on the Roadway Design Office web site.

The Design Standards Modifications includes a listing of all Interim Design Standards issued since publication of the applicable booklet, plus all changes and corrections to notes and text within the booklet that do not warrant issuing Interim Indexes.

Included in the interims is a new series (18000) related to ITS work. These drawings were created for general use to support the development of project-specific ITS plans. Designers should reference these Standards in ITS plans to provide general details for some of the typical devices deployed on projects that include ITS. They cover basic general details to provide guidance and contribute to some degree of added consistency in the design and deployment of these devices. However, it is expected that additional information related to detailed structural requirements for items such as CCTV poles and DMS supports will need to be produced, signed, and sealed by project designers on a project-by-project basis to ensure that project-specific needs are met.

All plans beginning with the July 2006 letting shall include a reference to Design Standards Modifications Effective Date July 1, 2006 on the lower left corner of the Key Sheet below the Governing Specifications and Standards note, and above the Revisions area. For more information please see the Plans Preparation Manual, Volume II, Section 3.8 and Exhibit KS-1.

Note that all Interim Indexes listed in the Design Standards Modifications publication will be applicable unless otherwise indicated in the contract documents. The July 1, 2006 Design Standards Modifications includes the following Interim Indexes:

Interim Index No. 200 (Sheet 3 of 3), STRUCTURE BOTTOMS TYPE J AND P - Dated 01-01-06: Includes 70 ksi WWF, maximum wire spacing and changes "E3.5" to "E3" in Table 6.

Interim Index No. 201 (Sheets 4 of 4), SUPPLEMENTAL DETAILS FOR MANHOLES AND INLETS - Dated 01-01-06: Includes 70 ksi WWF in Equivalent Steel Area Table and maximum bar/wire spacing reduction criteria in Note 4.

Interim Index No. 302 (Sheets 2 and 3 of 3), TRAFFIC SEPARATORS - Dated 01-01-06: Added "DETAIL AT POURED JOINT WITH BACKER ROD EXPANSION JOINTS".

Interim Index No. 403 (Sheets 1 – 2 of 2), GUARDRAIL TRANSITIONS FOR EXISTING BRIDGE TRAFFIC RAILING RETROFITS - Dated 07-01-05: This is a new index to detail upgrading the guardrail approaches to existing bridge rail retrofits.

Interim Index No. 414 (Sheets 1 – 7 of 12), TYPE K TEMPORARY CONCRETE BARRIER- Dated 01-01-06: Replaces Sheets 1-7 and adds Sheets 8-12. (Sheet 1) Added "Optional Spacing Bars 4A (Typ) to Elevation View. (Sheet 2) Changed ALTERNATE REINFORCING STEEL (WELDED WIRE FABRIC DETAIL) "CONFIGURATION ONE" and "CONFIGURATION TWO". (Sheet 3) Added NOTES FOR THRIE BEAM GUARDRAIL SPLICE INSTALLATIONS. Changed "LIMITATION OF USE", "CONNECTION PIN INSTALLATION" notes, and "DETAIL OF CONNECTION BETWEEN BARRIER UNITS". (Sheet 4) Added "Traffic Side for Transition to Median Traffic Railings, see Sheet 8" note block to TYPICAL SECTION detail. Changed title of "TYPICAL SECTION" and "ANCHOR BOLTS, NUTS AND WASHERS" and "LIMITATIONS OF USE" notes, and "TREATMENT AT BRIDGE DECK EXPANSION JONT SCHEMATIC" (Sheet 5) Added "Traffic Side for Transition to Median Traffic Railings, see Sheet 8" note block to TYPICAL SECTION detail. Changed weld detail on STAKE DETAIL, title of TYPICAL SECTION and "STAKES" note. (Sheet 7) Added asterisks to traffic arrows in Approach Transitions.

Interim Index No. 430 (Sheets 1 – 2 of 2), OPTIONAL CRASH CUSHION DETAILS - Dated 01-01-06: Revised to correct lengths.

Interim Index 520 (Sheet 1 of 1), GRAVITY WALL - Dated 01-01-06: The Gravity Wall was completely redesigned.

Interim Index No. 812 (Sheets 1 and 4 of 4), BRIDGE FENCING (ENCLOSED) - Dated 01-01-06: (Sheet 1) Corrected payment note pay item description and added Note 4 for variable sidewalk widths. (Sheet 4) Changed Note 1, DIM. H and added Notes 2 & 3.

Interim Index No. 850 (Sheet 2 of 2), STEEL PEDESTRIAN/BICYCLE PICKET RAILING - Dated 01-01-06: Corrected C.I.P. anchor bolt diameter in DETAIL "A" and changed base plate venting hole to 1" diameter.

Interim Index No. 5200 (Sheet 1 of 1), PRECAST SOUND BARRIERS, GENERAL NOTES - Dated 01-01-06: Added notes C.3, D.4, H.3 & J.8 and ASTM A 497 (Deformed Wire) to Note D.2.

Interim Index No. 5300 (Sheets 1 thru 16 of 16), PERMANENT RETAINING WALL SYSTEMS - Dated 01-01-06: Replaces Index No. 5300. Added FDOT Wall Types Table and new Sheet 2; Changed "leveling concrete" to "buildup concrete" and Sheet Numbering; Deleted 45 degree chamfer from C.I.P junction Slab for precast coping.

Interim Index No. 11200 (Sheets 1 - 3 of 3), STANDARD ROADSIDE SIGN – Dated 01-01-06: (Sheet 1) Revised “Design Wind Load”, “Fuse Plates”, and “Foundation” notes. (Sheets 2 and 3) Revised “Shim Detail”.

Interim Index No. 17505 (Sheet 2 of 2), EXTERNAL LIGHTING FOR SIGNS (MERCURY VAPOR) –Dated 01-01-06: In “Detail A”, revised notes to reflect use of stainless steel hardware.

Interim Index No. 18100 (Sheet 1 of 1), CCTV POLE PLACEMENT Dated 01-01-06.

Interim Index No. 18101 (Sheet 1 of 1), TYPICAL CCTV SITE, Dated 01-01-06.

Interim Index No. 18102 (Sheet 1 of 1), CCTV POLE GROUNDING, Dated 01-01-06.

Interim Index No. 18104 (Sheet 1 of 1), CCTV CABINET EQUIPMENT LAYOUT, Dated 01-01-06.

Interim Index No. 18105 (Sheet 1 of 1), CCTV BLOCK DIAGRAM, Dated 01-01-06.

Interim Index No. 18107 (Sheet 1 of 1), GROUND MOUNTED CCTV CABINET, Dated 01-01-06.

Interim Index No. 18108 (Sheet 1 of 1), POLE MOUNTED CCTV CABINET, Dated 01-01-06.

Interim Index No. 18110 (Sheet 1 – 2 of 2), CAMERA MOUNTING DETAILS, Dated 01-01-06.

Interim Index No. 18111 (Sheet 1 – 2 of 2), STEEL CCTV POLE FOR CAMERA LOWERING DEVICE, Dated 01-01-06.

Interim Index No. 18113 (Sheet 1 of 1), CONCRETE CCTV POLE, Dated 01-01-06.

Interim Index No. 18202 (Sheet 1 of 1), FIBER OPTIC PULLBOX AND TRENCH DETAILS, Dated 01-01-06.

Interim Index No. 18204 (Sheet 1 – 2 of 2), FIBER OPTIC SPLICE BOX AND PULLBOX, Dated 01-01-06.

Interim Index No. 18300 (Sheet 1 of 1), “DMS CABINET AND SIGN WIRING AND BLOCK DIAGRAM”, Dated 01-01-06.

Interim Index No. 18301 (Sheet 1 of 1), DMS CABINET LAYOUT, Dated 01-01-06.

Interim Index No. 18302 (Sheet 1 of 1), TYPICAL DMS MOUNTING DETAILS, Dated 01-01-06.

Interim Index No. 18303 (Sheet 1 – 2 of 2), DMS STRUCTURE DETAILS, Dated 01-01-06.

Interim Index No. 18305 (Sheet 1 – 2 of 2), DMS GROUNDING DETAILS, Dated 01-01-06.

Interim Index No. 20150 (Sheet 1 of 1), AASHTO TYPE V BEAM - Dated 01-01-06: Added embedded bearing plates to all beams.

Interim Index No. 20160 (Sheet 1 of 1), AASHTO TYPE VI BEAM - Dated 01-01-06: Added embedded bearing plates to all beams.

Interim Index No. 20172 (Sheet 1 of 1), FLORIDA BULB-T 72 BEAM - Dated 01-01-06: Added embedded bearing plates to all beams.

Interim Index No. 20178 (Sheet 1 of 1), FLORIDA BULB-T 78 BEAM - Dated 01-01-06: Added embedded bearing plates to all beams.

Interim Index No. 20400 (Sheet 1 of 1), NOTES AND DETAILS FOR PRECAST CONCRETE SHEET PILES - Dated 01-01-06: Changed "DESIGN PARAMETERS" and "PILE PICK-UP AND HANDLING" notes for Type "B" & "C" piles. Deleted plastic filter fabric from Detail "A" (Section Taken Below Dimension "X").

Interim Index No. 20501 (Sheet 1 of 1), BEVELED BEARING PLATE DETAILS - PRESTRESSED AASHTO AND BULB-T BEAMS - Dated 01-01-06: Replaces Index No. 20501. Added embedded bearing plates to all AASHTO Type V, VI and Florida Bulb-T beams.

Interim Index No. 20502 (Sheet 1 of 1), BEVELED BEARING PLATE DETAILS – PRESTRESSED FLORIDA U-BEAMS - Dated 01-01-06: - This is a new Index to provide details for Bearing Plates on Prestressed Florida U-Beams.

Interim Index No 20630 (Sheet 1 of 1), 30" SQUARE PRESTRESSED CONCRETE PILE - Dated 01-01-06: Added dimension "4'-0" Solid Section - Typical for Pile" & "11'-0" Solid Section - Typical for Splice Section" to ELEVATION.

Interim Index No. 21110 (Sheets 1 – 2 of 2), POURED JOINT WITH BACKER ROD EXPANSION JOINT SYSTEM - Dated 01-01-06: This is a new Index.

Interim Index No. 21220 (Sheet 1 of 2), NAVIGATION LIGHT SYSTEM DETAILS (FIXED BRIDGES) - Dated 01-01-06: Changed Mid Fender light location.

Interim Index No. 21900 (Sheet 1 – 2 of 2), FENDER SYSTEM GENERAL NOTES AND LAYOUT - Dated 01-01-06: This is a new Index to provide General Notes and Details for Heavy, Medium and Light Duty Fender Systems.

Interim Index No. 21910 (Sheets 1 – 5 of 5), FENDER SYSTEM HEAVY DUTY - Dated 01-01-06: This is a new Index to provide details for the Heavy Duty Fender System.

Interim Index No. 21920 (Sheets 1 – 5 of 5), FENDER SYSTEM MEDIUM DUTY - Dated 01-01-06: This is a new Index to provide details for the Medium Duty Fender System.

Interim Index No. 21930 (Sheets 1 – 5 of 5), FENDER SYSTEM LIGHT DUTY - Dated 01-01-06: This is a new Index to provide details for the Light Duty Fender System.

The Design Standards, Interim Indexes and Design Standards Modifications can be accessed at the following web site:

<http://www.dot.state.fl.us/rddesign/Design%20Standards/Standards.htm>

If you have any questions please contact Andy Keel, telephone 850-414-4318, Suncom 994-4334.