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ROADWAY DESIGN BULLETIN 08-03

DATE: January 18, 2008

TO: District Design Engineers, Plans Preparation Manual Holders

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

COPIES: Lora Hollingsworth, Brian Blanchard, Tim Lattner, Robert Robertson, Duane Brautigam, Lap Hoang, Chris Richter, FHWA

SUBJECT: Design Standards Modifications July 1, 2008

A handwritten signature in blue ink, likely belonging to David C. O'Hagan, the State Roadway Design Engineer mentioned in the 'FROM' field.

In accordance with Roadway Design Bulletin 07-06, the 2008 Design Standards shall be applied to all projects beginning with the July 2008 letting.

The Design Standards Modifications to the 2008 Design Standards booklet, Effective Date July 1, 2008, have 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.

All plans beginning with the July 2008 letting shall include a reference to Design Standards Modifications Effective Date July 1, 2008, 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.

All Interim Indexes listed in the Design Standards Modifications publication will be applicable unless otherwise indicated in the contract documents. The July 1, 2008, Design Standards Modifications includes Interim Indexes as follows:

Interim Index No. 211 (Sheets 1-5 of 5), CURB INLET TOPS TYPES 5 & 6 - Dated 01/01/08: Reinforcing configuration and C.I.P. details revised; precast and WWR details added.

Interim Index No. 287 (Sheets 1-4 of 4), CONCRETE PAVEMENT SUBDRAINAGE – Dated 01/01/08: Sheet 3 is new. Renumbered other sheets.

Interim Index No. 305 (Sheets 1 and 4 of 4), CONCRETE PAVEMENT JOINTS – Dated 01/01/08: Deleted bar spacing table and revised notes (Sheet 1); Changed width of outside lanes (Sheet 4).

Interim Index No. 400 (Sheet 15 of 24), GUARDRAIL – Dated 01/01/08: Changed reflector details.

Interim Index No. 410 (Sheet 1 of 22), CONCRETE BARRIER WALL – Dated 01/01/08: Changed reflector details.

Interim Index No. 414 (Sheets 1 and 5 of 15), TYPE K TEMPORARY CONCRETE BARRIER SYSTEM - Dated 01/01/08: Updated Specification reference Section 971 to 975; Added steel option to ALTERNATE DESIGN note. Add PTFE tape option to anchor bolts (Sheet 5).

Interim Index No. 423 (Sheets 1-3 of 3), TRAFFIC RAILING - (32" VERTICAL SHAPE) - Dated 01/01/08: Changed Bicycle railing and Post "B" designation (Sheets 1 & 2); Changed 83 degrees to 93 degrees in Cross-slope table (Sheet 3).

Interim Index No. 470 (Sheets 1-3 of 3), TRAFFIC RAILING – (THREE-BEAM RETROFIT) GENERAL NOTES & DETAILS – Dated 01/01/08: Field testing proof loads added to notes (Sheet 1); Changed offset of 7/8" diameter anchor bolts to 2 3/4" from back edge of base plate.

Interim Index No. 505 (Sheets 1-4 of 4), EMBANKMENT UTILIZATION – Dated 01/01/08: Sheet 3 is new. Renumbered other sheets.

Interim Index No. 518 (Sheet 3 of 3), RUMBLE STRIPS – Dated 01/01/08: Revised width of rigid pavement outside travel lane and changed location of rumble strip.

Interim Index No. 600 (Sheet 13 of 13), GENERAL INFORMATION FOR TRAFFIC CONTROL THROUGH WORK ZONES – Dated 01/01/08: New sheet showing Project Information Sign.

Interim Index No. 802 (Sheets 1-3 of 3), FENCE TYPE B – Dated 01/01/08: Added tolerance to ground clearance; revised Notes 7a and 7b; rearranged sheets.

Interim Index No. 820 (Sheet 1 of 1), PEDESTRIAN/BICYCLE RAILING - Dated 01/01/08: Changed designation of 54" tall railing to "Special Height Bicycle Railing".

Interim Index No. 821 (Sheet 1 of 1), ALUMINUM PEDESTRIAN/BICYCLE BULLET RAILING FOR TRAFFIC RAILING (32" F SHAPE) - Dated 01/01/08: Changed designation of

4'-6" tall railing to "Special Height Bicycle Railing" and added 3'-6" tall pedestrian/bicycle railing.

Interim Index No. 822 (Sheet 1 of 2), ALUMINUM PEDESTRIAN/BICYCLE BULLET RAILING DETAILS - Dated 01/01/08: Changed designation of 54" tall railing to "Special Height Bicycle Railing" and added "Post B2" details.

Interim Index No. 850 (Sheets 1-5 of 5), STEEL PEDESTRIAN/BICYCLE PICKET RAILING - Dated 01/01/08: Changed designation of 54" tall railing to "Special Height Bicycle Railing".

Interim Index No. 851 (Sheets 1-2 of 2), BRIDGE PEDESTRIAN/BICYCLE PICKET RAILING (STEEL) - Dated 01/01/08: Changed designation of 54" tall railing to "Special Height Bicycle Railing".

Interim Index No. 860 (Sheets 1-5 of 5), ALUMINUM PEDESTRIAN/BICYCLE PICKET RAILING - Dated 01/01/08: Changed designation of 54" tall railing to "Special Height Bicycle Railing" and added "Type B" connection detail for top of picket (Sheet 4).

Interim Index No. 861 (Sheets 1-2 of 2), BRIDGE PEDESTRIAN/BICYCLE PICKET RAILING (ALUMINUM) - Dated 01/01/08: Changed designation of 54" tall railing to "Special Height Bicycle Railing".

Interim Index No. 870 (Sheets 1-5 of 5), ALUMINUM PIPE GUIDERAIL - Dated 01/01/08: Deleted 54" tall railing option.

Interim Index No. 880 (Sheets 1-5 of 5), STEEL PIPE GUIDERAIL - Dated 01/01/08: Deleted 54" tall railing option.

Interim Index No. 5200 (Sheet 1 of 1), PRECAST SOUND BARRIERS - GENERAL NOTES - Dated 01/01/08: Added note K.11; Changed notes H.1, H.2 and O.2; Deleted note H.3.

Interim Index No. 5300 (Sheets 3, 6, 7, 12 and 15 of 19), PERMANENT RETAINING WALL SYSTEMS - Dated 01/01/08: Added note for "Full Depth Structural Asphalt" above junction slab (Sheets 6 & 7) and increased max. gap at back of precast coping (Sheets 3, 6, 7, 12 & 15).

Interim Index No. 11200 (Sheets 1-3 of 3), MULTI-COLUMN GROUND SIGN - Dated 01/01/08: Deleted high strength bolt table; revised notes (Sheet 1); Foundation notes and details revised (Sheets 2 & 3).

Interim Index No. 11300 (Sheet 1 of 1), OVERHEAD SIGN STRUCTURES - Dated 01/01/08: Hanger table values revised; connection bolt size revised; sign depth for horizontal splice changed to 10'.

Interim Index No. 11310 (Sheet 1 of 5), CANTILEVER SIGN STRUCTURE - Dated 01/01/08: Deleted A307 bolts (Note 4). Changed foundation concrete (Note 7). Changed to 1/2 inch mesh (Note 9).

Interim Index No. 11320 (Sheet 1 of 5), SPAN SIGN STRUCTURE - Dated 01/01/08: Deleted A307 bolts (Note 4). Changed foundation concrete (Note 7). Changed to 1/2 inch mesh (Note 9).

Interim Index No. 11860 (Sheets 1-5 of 8), SINGLE COLUMN GROUND SIGNS - Dated 01/01/08: Changed example and notes (Sheets 1-2). Revised Post and Foundation table, added soil plate & changed foundation depth (Sheet 3). Changed numbers of Z-bracket wind beams & edge distance (Sheet 4). Deleted single bevel base plate detail (Sheet 5).

Interim Index No. 17346 (Sheet 11 of 14), SPECIAL MARKING AREAS (PARKING) – Dated 01/01/08: Added detail to clarify curb ramp striping.

Interim Index No. 17349 (Sheet 1 of 1), TRAFFIC CONTROLS FOR STREET TERMINATIONS – Dated 01/01/08: Case I and Case II revised; 18"x18" marker detail revised; notes at bottom right revised.

Interim Index No. 17356 (Sheet 1 of 1), SPAN WIRE MOUNTED SIGN DETAIL – Dated 01/01/08: Removed signal head from detail. Single point attachment details deleted from Index.

Interim Index No. 17359 (Sheets 1-2 of 2), RURAL NARROW BRIDGE TREATMENT – Dated 01/01/08: Changed delineators to object markers; revised reference notes; sign W13-1 made optional (Sheet 1); Notes revised; inserts reorganized (Sheet 2).

Interim Index No. 17502 (Sheets 3-5 of 7), HIGHMAST LIGHTING - Dated 01/01/08: Changed notes(Sheet 3). Added ID plate and changed base plate thickness (Sheet 4). Changed foundation reinforcement, changed weld symbol and added padlock tab (Sheet 5).

Interim Index No. 17505 (Sheet 1 of 2), EXTERNAL LIGHTING FOR SIGNS – Dated 01/01/08: Mercury Vapor replaced by induction in Note 4.

Interim Index No. 17515 (Sheet 3 of 3), STANDARD ROADWAY ALUMINUM LIGHTING - Dated 01/01/08: Allowed fusion weld reinforcing cage and changed foundation concrete classification (Sheet 3).

Interim Index No. 17723 (Sheets 1-3 of 3), STEEL STRAIN POLE - Dated 01/01/08: Changed notes (Sheet 1). Changed strain pole variables table and foundation reinforcing detail (Sheet 2). Changed clamp pipe details (Sheet 3).

Interim Index No. 17725 (Sheets 1-2 of 2), CONCRETE POLES – Dated 01/01/08: Round pole note revised; pole height dimension added to Types P-III through P-VIII (Sheet 1); D (feet) changed to H (feet) in both tables (Sheet 2).

Interim Index No. 17743 (Sheets 1-3 of 3), STANDARD MASTARM ASSEMBLIES - Dated 01/01/08: Changed table headings and changed table values.

Interim Index No. 17745 (Sheets 1 and 2 of 5), MAST ARM ASSEMBLIES – Dated 01/01/08: QPL added to Standard Design; Notes 14 & 19 revised: Note 17 is new (Sheet 1); revised foundation reinforcing details (Sheet 2).

Interim Index No. 17748 (Sheet 1 of 1), FREE-SWINGING, INTERNALLY ILLUMINATED STREET SIGN ASSEMBLIES – Dated 01/01/08: Option 1 deleted and Options 2 and 3 renumbered; Note 1 revised.

Interim Index No. 17784 (Sheet 1 of 3), PEDESTRIAN DETECTOR ASSEMBLY INSTALLATION DETAILS – Dated 01/01/08: Dimensions revised on Figures A & B.

Interim Index No. 20500 (Sheet 1 of 1), COMPOSITE ELASTOMERIC BEARING PADS - Dated 01/01/08: Added Type C Pads for larger skew ranges. Changed specification of elastomer from "durometer" to "shear modulus".

Interim Index No. 20602 (Sheet 1 of 1), EDC INSTRUMENTATION FOR SQUARE PRESTRESSED CONCRETE PILES - Dated 01/01/08: Changed EDC location to 1D from tip of pile.

Interim Index No. 20900 (Sheet 2 of 2), APPROACH SLABS (FLEXIBLE PAVEMENT APPROACHES) - Dated 01/01/08: Changed coping width and End Bent lug from 6" to 5 1/2".

Interim Index No. 20910 (Sheet 2 of 2), APPROACH SLABS (RIGID PAVEMENT APPROACHES) - Dated 01/01/08: Changed coping width and End Bent lug from 6" to 5 1/2".

Interim Index No. 21200 (Sheet 1 of 2), LIGHT POLE PILASTER - Dated 01/01/08: Added note for anchor bolts and anchor plates.

Interim Index No. 21600 (Sheet 3 of 7), TEMPORARY DETOUR BRIDGE GENERAL NOTES AND DETAILS - Dated 01/01/08: Added vertical dimensions between deck surface and underside of bearings, including depth of Truss Panel.

Interim Index No. 21803 (Sheet 3 of 3), POST TENSIONING ANCHORAGE AND GROUTING DETAILS - Dated 01/01/08: Shrink wrap deleted from duct coupler detail.

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

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<http://www.dot.state.fl.us/rddesign/DesignStandards/standards.htm>

If you have any questions please contact this office.