

# DESIGN STANDARDS MODIFICATIONS

## (2010 Booklet)

### (English Units)

**Effective Date: July 1, 2010**

**NOTE: Interim Indexes listed in these Modifications may be viewed by going to [www.dot.state.fl.us/rddesign/DesignStandards/Standards.shtm](http://www.dot.state.fl.us/rddesign/DesignStandards/Standards.shtm).**

Index No. 100 (Sheet 1 of 1), “TEMPORARY SLOPE DRAIN AND SOD FLUME”, is deleted.

Index No. 101 (Sheet 1 of 1), “TRASH RETAINER AND SEDIMENT BASIN”, is deleted.

Index No. 103 (Sheet 1 of 1), “TURBIDITY BARRIERS”, is deleted.

Index No. 106 (Sheet 1 of 1), “SOIL TRACKING PREVENTION DEVICE TYPE A”, is deleted.

NOTE: For details formerly contained on these deleted Indexes see the “Florida Erosion and Sediment Control Manual”.

Index No. 102 (Sheets 1-3 of 3), “TEMPORARY EROSION AND SEDIMENT CONTROL”, are deleted and Interim Index No. 102 (Sheet 1-3 of 3), Dated 01/01/10 is substituted.

NOTE: Index 102 has been retained for use by Utility Companies only.

Index No. 200 (Sheet 1 of 5), “STRUCTURE BOTTOMS TYPE J AND P”, is deleted and Interim Index No. 200 (Sheet 1 of 5), Dated 01/01/10 is substituted.

Index No. 201 (Sheet 3 & 4 of 5), “SUPPLEMENTAL DETAILS FOR MANHOLES AND INLETS”, is deleted and Interim Index No. 201 (Sheet 3 & 4 of 5), Dated 01/01/10 is substituted.

Index No. 211 (Sheets 1-3 of 5), “CURB INLET TOPS TYPE 5 & 6”, are deleted and Interim Index No. 211 (Sheet 1-3 of 5), Dated 01/01/10 is substituted.

Index No. 220 (Sheet 1 of 3), “GUTTER INLET TYPE S”, is deleted and Interim Index No. 220 (Sheet 1 of 3), Dated 01/01/10 is substituted.

Index No 221 (Sheet 1 of 2), “GUTTER INLET TYPE V”, is deleted and Interim Index No. 221 (Sheet 1 of 2), Dated 01/01/10 is substituted.

Index No. 233 (Sheets 1-2 of 2), "DITCH BOTTOM INLETS TYPES F & G", are deleted and Interim Index No. 233 (Sheets 1-2 of 2), Dated 01/01/10 is substituted.

Index No. 245 (Sheet 1 of 1), "UNDERDRAIN INSPECTION BOX", is deleted and Interim Index No. 245 (Sheet 1 of 1), Dated 01/01/10 is substituted.

Index No. 289 (Sheet 5 of 7), "CONCRETE BOX CULVERT DETAILS (LRFD)", is deleted and Interim Index No. 289 (Sheet 5 of 7), Dated 01/01/10 is substituted.

Index No. 291 (Sheet 3 of 5), "SUPPLEMENTAL DETAILS FOR PRECAST CONCRETE BOX CULVERTS", is deleted and Interim Index No. 291 (Sheet 3 of 5), Dated 01/01/10 is substituted.

Index No. 292 (Sheet 2 of 14), "STANDARD PRECAST CONCRETE BOX CULVERTS", add the following to the GENERAL NOTES, "11. Minimum length of precast box segments is 4 feet and maximum length is 16 feet."

Index No. 307 (Sheet 1 of 3), "MISCELLANEOUS UTILITY DETAILS", "GENERAL NOTES", Note 6, delete the last sentence of the first paragraph.

Under "PAVEMENT REMOVAL AND REPLACEMENT", delete the second paragraph and substitute: "The replacement asphalt shall match the existing structural and friction courses for type and thickness in accordance with current FDOT asphalt mix specifications."

Index No. 310 (Sheet 1 of 2), "CONCRETE SIDEWALK", is deleted and Interim Index No. 310 (Sheet 1 of 2), Dated 01/01/10 is substituted.

Index No. 400 (Sheet 25 of 26), "GUARDRAIL", "CONTROLLED RELEASE RETURN NOTES", Note 3, delete the text: "the 32' radius return is to be used only highway speed of 60 mph or less".

Index No. 402 (Sheet 24 of 24), "GUARDRAIL TRANSITIONS AND CONNECTIONS FOR EXISTING BRIDGES", is deleted and Interim Index No. 402 (Sheet 24 of 24), Dated 01/01/10 is substituted.

Index No. 403 (Sheet 3 of 3), "GUARDRAIL TRANSITIONS FOR EXISTING BRIDGE TRAFFIC RAILING RETROFITS", is deleted and Interim Index No. 403 (Sheet 3 of 3), Dated 01/01/10 is substituted.

Index No. 410 (Sheet 7 of 25), "CONCRETE BARRIER WALL", is deleted and Interim Index No. 410 (Sheet 7 of 25), Dated 01/01/10 is substituted.

Index No. 415 (Sheet 5 of 10) "TEMPORARY CONCRETE BARRIER", note at the crash cushion in the upper left corner and the fourth diagram down, add the following text to the end of the note: "or when shown on the crash cushion manufacturer's drawings".

Index No. 470 (Sheet 1 of 3), "TRAFFIC RAILING - (THRIE-BEAM RETROFIT) GENERAL NOTES & DETAILS" is deleted and Interim Index No. 470 (Sheet 1 of 3), Dated 01/01/10 is substituted.

Index No. 501 (Sheets 5-9 of 9), "GEOSYNTHETIC REINFORCED SOILS" are deleted and Interim Index No. 501 (Sheets 5-10 of 10), Dated 01/01/10 are substituted.

Index No. 510 (Sheet 1 of 2), in the heading to the notes for "SUPERELEVATION TRANSITIONS", delete the second occurrence of "IN ALL".

Index No. 515 (Sheets 2 & 4 of 7), "TURNOUTS", are deleted and Interim Index No. 515 (Sheets 2 & 4 of 7), Dated 01/01/10 are substituted.

Index No. 520 (Sheet 1 of 1),"GRAVITY WALL", in the "ESTIMATED QUANTITIES FOR WALL" table, change "CLASS I CONCRETE" to "CLASS NS CONCRETE".

Index No. 560 (Sheet 1 of 1), "CROSSING SURFACES" is deleted and Interim Index No. 560 (Sheets 1-2 of 2), Dated 01/01/10 is substituted.

Index No. 600 (Sheet 1 of 13), "GENERAL INFORMATION FOR TRAFFIC CONTROL THROUGH WORK ZONES", "ABBREVIATIONS", change description of "TMA" to read: "Truck/Trailer Mounted Attenuator".

(Sheet 2 of 13), "TEMPORARY TRAFFIC CONTROL DEVICES", delete existing text and substitute the following: "All temporary traffic control devices shall be on either the Department's Qualified Products List (QPL) or the Department's Approved Products List (APL). Ensure the appropriate QPL or APL number is permanently marked on the device at a readily visible location.

All temporary traffic control devices shall be removed as soon as practical when they are no longer needed. When work is suspended for short periods of time, temporary traffic control devices that are no longer appropriate shall be removed or covered.

Arrow Panels, Portable Changeable Message Signs, Radar Speed Display Trailers, Portable Regulatory Signs, and any other trailer mounted device shall be delineated with a temporary traffic control device placed at each corner when in use and shall be moved outside the travel way and clear zone or be shielded by a barrier or crash cushion when not in use."

(Sheet 5 of 13), "END ROAD WORK SIGN", change sign code from "G20-2A" to "G20-2".

(Sheets 6 & 7 of 13), are deleted and Interim Index No. 600 (Sheets 6 & 7 of 13), Dated 01/01/10 is substituted.

(Sheet 9 of 13), “TRUCK MOUNTED ATTENUATORS”, change heading to: “TRUCK/TRAILER MOUNTED ATTENUATORS”, and change first sentence of text to read, “Truck/trailer mounted attenuators”.

(Sheet 9 of 13), “CHANNELIZING AND LIGHTING DEVICES”, delete the second paragraph.

(Sheet 10 of 13), in the Note beneath the “DROP-OFF PROTECTION REQUIREMENTS” table, change reference to “Index No. 600 sheet 3”.

(Sheet 12 of 13), “CHANNELIZING AND LIGHTING DEVICE NOTES”, delete notes 1 and 2 and renumber remaining notes.

Index No. 667 (Sheet 6 of 6), “TOLL PLAZA TRAFFIC CONTROL STANDARDS”, is deleted and Interim Index No. 667 (Sheet 6 of 6), Dated 01/01/10 is substituted.

Index No. 801 (Sheet 1 of 3), “FENCE TYPE A”, is deleted and Interim Index No. 801 (Sheet 1 of 3), Dated 01/01/10 is substituted.

Index No. 802 (Sheet 1 of 3), “TYPE B FENCE”, Note F, in the title delete “operations” and substitute “options”.

Index No. 803 (Sheet 1 of 1), “GENERAL NOTES”, Note 1, delete the first paragraph.

Index No. 820 (Sheet 1 of 1), “PEDESTRIAN/BICYCLE RAILING”, is deleted and Interim Index No. 820 (Sheet 1 of 1), Dated 01/01/10 is substituted.

Index No. 821 (Sheet 1 of 1), “ALUMINUM PEDESTRIAN/BICYCLE BULLET RAILING FOR TRAFFIC RAILING (32" F SHAPE)”, is deleted and Interim Index No. 821 (Sheet 1 of 1), Dated 01/01/10 is substituted.

Index No. 850 (Sheets 1 & 4 of 5), “STEEL PEDESTRIAN/BICYCLE PICKET RAILING”, are deleted and Interim Index No. 850 (Sheets 1 & 4 of 5), Dated 01/01/10 is substituted.

Index No. 860 (Sheet 4 of 5), “ALUMINUM PEDESTRIAN/BICYCLE PICKET RAILING”, is deleted and Interim Index No. 860 (Sheet 4 of 5), Dated 01/01/10 is substituted.

Index No. 5200 (Sheet 1 of 1), “PRECAST SOUND BARRIERS - GENERAL NOTES”, is deleted and Interim Index No. 5200, (Sheet 1 of 1), Dated 01/01/10 is substituted.

Index No. 5202 (Sheets 1-4 of 4), “PRECAST SOUND BARRIERS - FLUSH PANEL OPTION”, are deleted and Interim Index No. 5202 (Sheets 1-6 of 6), Dated 01/01/10 is substituted.

Index No. 5203 (Sheets 1-5 of 5), “PRECAST SOUND BARRIERS - RECESSED PANEL OPTION”, are deleted and Interim Index No. 5203 (Sheets 1-6 of 6), Dated 01/01/10 is substituted.

Index No. 5204 (Sheet 1 of 1), “PRECAST SOUND BARRIERS - FIRE HOSE ACCESS HOLE & DRAINAGE DETAILS”, is deleted and Interim Index No. 5204, (Sheet 1 of 1), Dated 01/01/10 is substituted.

Index No. 5205 (Sheets 1, 2, & 3 of 7), “PRECAST SOUND BARRIERS - PILE AND POST REINFORCING STEEL”, are deleted and Interim Index No. 5205 (Sheets 1, 2, & 3 of 7), Dated 01/01/10 is substituted.

Index No. 5206 (Sheet 1 of 1), “PRECAST SOUND BARRIERS - PILE DEPTH AND REINFORCING SUMMARY”, is deleted and Interim Index No. 5206 (Sheet 1 of 1), Dated 01/01/10 is substituted.

Index No. 5300 (Sheets 7, 13, 16, 17 & 18 of 19), “PERMANENT RETAINING WALL SYSTEMS”, are deleted and Interim Index No. 5300 (Sheets 7, 13, 16, 17 & 18 of 19), Dated 01/01/10 is substituted.

Index No. 11200 (Sheets 1-2 of 2), “MULTI-COLUMN GROUND SIGN” are deleted and Interim Index No. 11200 (Sheets 1-2 of 2), Dated 01/01/10 is substituted.

Index No. 11300 (Sheet 1 of 1), “OVERHEAD SIGN STRUCTURES”, is deleted and Interim Index No. 11300 (Sheet 1 of 1), Dated 01/01/10 is substituted.

Index No. 11860 (Sheet 5 of 8), “SINGLE COLUMN GROUND SIGNS”, is deleted and Interim Index No. 11860 (Sheet 5 of 8), Dated 01/01/10 is substituted.

Index No. 13417 (Sheet 1 of 1), “MOUNTING EXIT NUMBERING PANELS TO HIGHWAY SIGNS”, is deleted and Interim Index No. 13417 (Sheet 1 of 1) Dated 01/01/10 is substituted.

Index No. 17302 (Sheet 1 of 1), “TYPICAL SECTIONS FOR PLACEMENT OF SINGLE & MULTI-COLUMN SIGNS”, “CASE 1X (MILE POST MARKER)”, change the height of the marker to be 4’ to the bottom edge of the marker panel.

Index No.17344 (Sheets 2 & 3 of 6), “SCHOOL SIGNS & MARKINGS”, are deleted and Interim Index No. 17344 (Sheets 2 & 3 of 6), Dated 01/01/10 are substituted.

Index No. 17346 (Sheet 2 of 14), “SPECIAL MARKING AREAS”, “PAVEMENT MARKINGS FOR INTERSECTIONS WITH MAJOR AND MINOR ROADS”, for the 6” white line at the left turn lane, delete the text “Begins Opposite Radius Point”.

Index No. 17346 (Sheet 4 of 14) “SPECIAL MARKING AREAS”, detail in lower left corner, last note, change “2 of 13” to “3 of 14”.

Index No. 17346 (Sheet 7 & 10 of 14), “SPECIAL MARKING AREAS”, are deleted and Interim Index No. 17346 (Sheet 7 & 10 of 14), Dated 01/01/10 is substituted.

Index No. 17352 (Sheet 1 of 2), “TYPICAL PLACEMENT OF REFLECTIVE PAVEMENT MARKERS”, “Note 3”, insert “longitudinal” between “solid” and “lines”.

Index No. 17352 (Sheet 2 of 2), “TYPICAL PLACEMENT OF REFLECTIVE PAVEMENT MARKERS”, is deleted and Interim Index No. 17352 (Sheet 2 of 2), Dated 01/01/10 is substituted.

Interim Index No. 17354 (Sheet 1 of 1), “TOURIST ORIENTED DIRECTIONAL SIGNS”, Dated 01/01/10 is added.

Index No. 17355 (Sheets 7 & 8 of 11), “SPECIAL SIGN DETAILS”, are deleted and Interim Index No. 17355 (Sheets 7 & 8 of 11), Dated 01/01/10 is substituted.

Index No. 17500 (Sheet 1 of 3), “CONVENTIONAL LIGHTING”, add a 12" bed of Pearock or crushed stone for drainage under pull box, for both the ‘METAL POLE WIRING DETAIL’ and the ‘METAL POLE DETAIL’.

Index No. 17504 (Sheet 1 of 1), “SERVICE POINT DETAILS”, “DETAIL B”, drawing on the left; delete “(See Detail Index 17503)”.

Index No. 17515 (Sheets 1, 2 & 3 of 8), “STANDARD ALUMINUM LIGHTING”, are deleted and Interim Index No. 17515 (Sheets 1, 2 & 3 of 8) Dated 01/01/10 are substituted.

Index No. 17727 (Sheets 1-2 of 2), “SIGNAL CABLE & SPAN WIRE INSTALLATION DETAILS”, are deleted and Interim Index No. 17727 (Sheets 1-2 of 2), Dated 01/01/10 is substituted.

Index No. 17784 (Sheet 2 of 2), “PEDESTRIAN DETECTOR ASSEMBLY INSTALLATION DETAILS”, “CASE I”, change “FIGURE F”, to “FIGURE E”. “CASE II”, add “ALTERNATE TO FIGURE E”.

Index No. 18102 (Sheet 1 of 2), “CCTV POLE GROUDING”, “STEEL POLE”, remove “Grout Pad Optional” and replace with “Wire Screen, See Spec 649-6”.

In note beginning “Bond #2 AWG - - “, correct spelling of “sectional”.

Index No. 18110 (Sheets 1-2 of 2), “CAMERA MOUNTING DETAILS”, is deleted and Interim Index No. 18110 (Sheets 1-2 of 2), Dated 01/01/10 is substituted.

Index No. 18111 (Sheets 1-2 of 2), “STEEL CCTV POLE”, is deleted and Interim Index No. 18111 (Sheets 1-2 of 2), Dated 01/01/10 is substituted.

Index No. 18113 (Sheets 1-2 of 2), "CONCRETE CCTV POLE", is deleted and Interim Index No. 18113 (Sheets 1-2 of 2), Dated 01/01/10 is substituted.

Interim Index No. 20005 (Sheet 1 of 1), "PRESTRESSED BEAM TEMPORARY BRACING", Dated 01/01/10, is added.

Interim Index No. 20010 (Sheets 1-2 of 2), "TYPICAL FLORIDA-I BEAM DETAILS AND NOTES", Dated 01/01/10, is added.

Interim Index No. 20036 (Sheets 1-2 of 2), "FLORIDA-I 36 BEAM - STANDARD DETAILS", Dated 01/01/10, is added.

Interim Index No. 20045 (Sheets 1-2 of 2), "FLORIDA-I 45 BEAM - STANDARD DETAILS", Dated 01/01/10, is added.

Interim Index No. 20054 (Sheets 1-2 of 2), "FLORIDA-I 54 BEAM - STANDARD DETAILS", Dated 01/01/10, is added.

Interim Index No. 20063 (Sheets 1-2 of 2), "FLORIDA-I 63 BEAM - STANDARD DETAILS", Dated 01/01/10, is added.

Interim Index No. 20072 (Sheets 1-2 of 2), "FLORIDA-I 72 BEAM - STANDARD DETAILS", Dated 01/01/10, is added.

Interim Index No. 20078 (Sheets 1-2 of 2), "FLORIDA-I 78 BEAM - STANDARD DETAILS", Dated 01/01/10, is added.

Index No. 20199 (Sheet 1 of 1), "BUILD-UP & DEFLECTION DATA FOR AASHTO, BULB-T AND FLORIDA-I BEAMS", is deleted and Interim Index No. 20199 (Sheet 1 of 1), Dated 01/01/10 is substituted.

Index No. 20210 (Sheet 2 of 2), "TYPICAL FLORIDA-U BEAM DETAILS AND NOTES", is deleted and Interim Index No. 20210 (Sheet 2 of 2), Dated 01/01/10 is substituted.

Interim Index No. 20350 (Sheets 1-3 of 3), "PRESTRESSED SLAB UNITS DETAILS AND NOTES", Dated 01/01/10, is added.

Interim Index No. 20353 (Sheet 1 of 1), "12" CUSTOM WIDTH PRESTRESSED SLAB UNIT - STANDARD DETAILS", Dated 01/01/10, is added.

Interim Index No. 20354 (Sheet 1 of 1), "12"x48" PRESTRESSED SLAB UNIT - STANDARD DETAILS", Dated 01/01/10, is added.

Interim Index No. 20355 (Sheet 1 of 1), "12"x60" PRESTRESSED SLAB UNIT - STANDARD DETAILS", Dated 01/01/10, is added.

Interim Index No. 20363 (Sheet 1 of 1), "15" CUSTOM WIDTH PRESTRESSED SLAB UNIT - STANDARD DETAILS", Dated 01/01/10, is added.

Interim Index No. 20364 (Sheet 1 of 1), "15"x48" PRESTRESSED SLAB UNIT - STANDARD DETAILS", Dated 01/01/10, is added.

Interim Index No. 20365 (Sheet 1 of 1), "15"x60" PRESTRESSED SLAB UNIT - STANDARD DETAILS", Dated 01/01/10, is added.

Interim Index No. 20399 (Sheet 1 of 1), "OVERLAY & DEFLECTION DATA FOR PRESTRESSED SLAB UNITS", Dated 01/01/10, is added.

Index No. 20500 (Sheet 1 of 1), "COMPOSITE ELASTOMERIC BEARING PADS", is deleted and Interim Index No. 20500 (Sheet 1 of 1), "COMPOSITE ELASTOMERIC BEARING PADS - PRESTRESSED AASHTO & BULB-T BEAMS", Dated 01/01/10 is substituted.

Index No. 20501 (Sheet 1 of 1), "BEVELED BEARING PLATE DETAILS - PRESTRESSED AASHTO AND BULB-T BEAMS", is deleted and Interim Index No. 20501 (Sheet 1 of 1), Dated 01/01/10 is substituted.

Index No. 20502 (Sheet 1 of 1), "BEVELED BEARING PLATE DETAILS - PRESTRESSED FLORIDA-U BEAMS", is deleted and Interim Index No. 20502 (Sheet 1 of 1), Dated 01/01/10 is substituted.

Interim Index No. 20510 (Sheet 1 of 1), "COMPOSITE ELASTOMERIC BEARING PADS - PRESTRESSED FLORIDA-I BEAMS", Dated 01/01/10, is added.

Interim Index No. 20511 (Sheets 1-2 of 2), "BEARING PLATE DETAILS - PRESTRESSED FLORIDA-I BEAMS", Dated 01/01/10, is added.

Index No. 20602 (Sheet 1 of 1), "EDC INSTRUMENTATION FOR SQUARE PRESTRESSED CONCRETE PILES", is deleted and Interim Index No. 20602, (Sheet 1 of 1), Dated 01/01/10 is substituted.

Index No. 21100 (Sheet 2 of 3), "STRIP SEAL EXPANSION JOINT", is deleted and Interim Index No. 21100 (Sheet 2 of 3), Dated 01/01/10 is substituted.

Index No. 21200 (Sheets 1-2 of 2), "LIGHT POLE PILASTER", are deleted and Interim Index No. 21200 (Sheets 1-3 of 3), Dated 01/01/10 is substituted.

Index No. 21240 (Sheet 1 of 2), "MAINTENANCE LIGHTING FOR BOX GIRDERS", is deleted and Interim Index No. 21240, (Sheet 1 of 2), Dated 01/01/10 is substituted.