

2016

FDOT



Design Standards

*For Construction and Maintenance Operations
on the State Highway System*

Topic No. 625-010-003

State of Florida Department of Transportation

Office of Design

Mail Station 32

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Tallahassee, Florida 32399-0450

F D O T 2 0 1 6 D E S I G N S T A N D A R D S

NOTICE

The Design Standards are intended to support the various engineering processes for construction and maintenance operations on the State Highway System. They are established to ensure the application of uniform standards in the preparation of contract plans for construction of roadways and structures. These Standards may be used for maintenance operations or adopted by other authorities for use on projects under their jurisdiction.

It is the responsibility of the Engineer of Record using these Standards to determine the fitness for a particular use of each standard in the design of a project. The inappropriate use of and adherence to these standards does not exempt the engineer from the professional responsibility of developing an appropriate design.

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*Structure is defined in *Section 334.03(27), F.S.*, as "a bridge, viaduct, tunnel, causeway, approach, ferry slip, culvert, toll plaza, gate, or other similar facility used in connection with a transportation facility" which would include related pipes and pipe systems. However, for the purpose of the public records law and *Procedure 050-020-026*, the Department has determined that the term "structure" includes "bridges with an opening of more than 20 feet between undercopings of abutments or spring lines of arches or extreme ends of openings for multiple boxes, and those other bridges subject to safety inspection under *Section 335.074, F.S.*" A roadway is not otherwise a structure for the purposes of *Procedure 050-020-026*.*

*Therefore, plans, blueprints, schematic drawings, and diagrams of structures owned by the Department are exempt from the public records provisions of Chapter 119, F.S. This exemption includes draft, preliminary, and final formats as described in *Procedure 050-020-026* and includes paper, electronic, and other formats. The Department has provided for the limited release of such documents in *Procedure 050-020-026*.*

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*The official version of the Design Standards is the PDF version and can be found at:
<http://www.dot.state.fl.us/rddesign/DesignStandards/Standards.shtm>*

CERTIFICATION STATEMENT

I hereby certify that these Design Standards were compiled under my responsible charge from designs prepared, examined, adopted, and implemented by the Florida Department of Transportation in accordance with established procedures, and as approved by the Federal Highway Administration.

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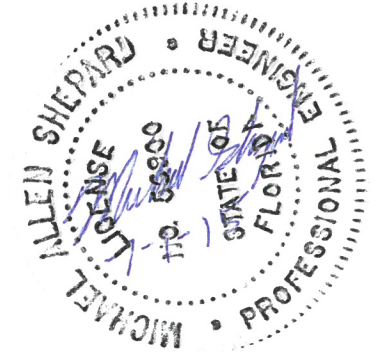
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Design Standards No.

17900

As To Roadway
Design Standards Nos.

001-105
200-288
293-403
410-415
430, 461
500
505-535
546, 560
600-803
870-880
11200-11871
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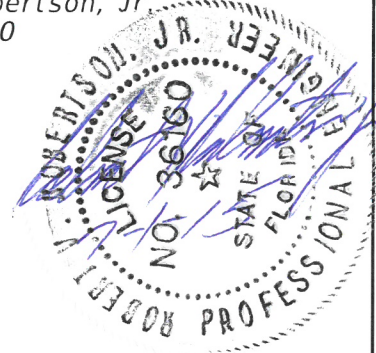
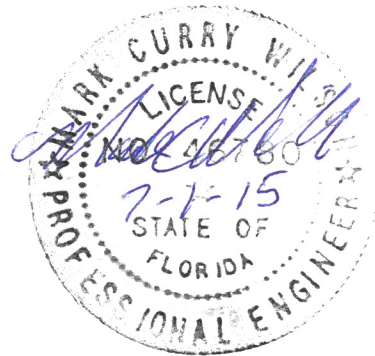
As To ITS
Design Standards Nos.

18100-18300

As To Structures
Design Standards Nos.

289-292
404-405
420-425
470-484
501, 540
810-862
5200-6201
20005-21930

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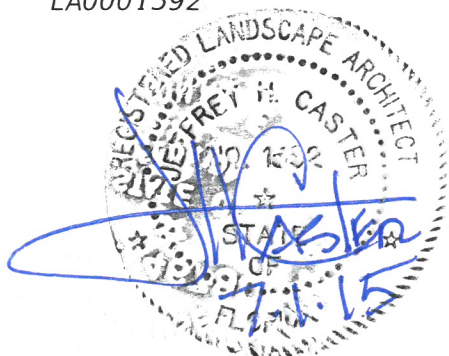
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As To Landscape Architecture
Design Standards Nos.

544

Approved For Use On Federal Aid Projects

James Christian July 1, 2015
James Christian, Division Administrator



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2016 REVISIONS

INDEX No	SHEET No	DESCRIPTION
STANDARD ABBREVIATIONS		
1	3 of 4	Deleted MSTCSD - Minimum Specifications For Traffic Control Signal Devices.
STANDARD SYMBOLS		
2	3 of 4	Added back in the Existing Overhead Electric, Overhead Cable Television, Overhead Telephone, Overhead Fiber Optic line types.
DRAINAGE		
200	5 of 5	Changed WWF to WWR.
201	3 of 5	Added embedment length of dowel bars into slabs on OPTIONAL CONSTRUCTION JOINTS Detail and changed Note #4 to welded wire reinforcing.
	4 of 5	Changed minimum size of deformed wire to D4.0 to meet ASTM A1064-8.3.1.
205	1 of 1	Deleted Index.
216	1 & 2 of 3	Added Section FF; Added Notes (* and **) for Sloped Section and Toe Wall; Reorganized Index for clarification.
251	1 of 2	Changed Note #2 - Deleted design specifications AASHTO 1989 reference.
252	1 of 2	Changed Note #2 - Deleted design specifications AASHTO 1989 reference.
253	1 of 2	Changed Note #2 - Deleted design specifications AASHTO 1989 reference.
261	3 of 3	Changed the "Table of Dimensions and Quantities for One Grate" - value for "F" at 18" Pipe Size; Changed Note #1.
270	1 of 1	Changed Note #1 to include Fiber-Reinforced Concrete in lieu of conventional reinforcing.
281	1 of 2	Changed GENERAL NOTE #7; Added * Note to the Filter Fabric Type column in the DITCH PAVEMENT Table.
	2 of 2	Split the sheet into two sections, labeled the left section SOD PLACEMENT AT PIPE/CULVERT END TREATMENTS; Added TABLE 2: to the title of the SOD QUANTITIES (SY) Table; Labeled the right side FILTER FABRIC PLACEMENT AT CONCRETE STRUCTURE; Changed callouts for clarification.
289	1 of 8	Deleted Splice Length for #10 & #11 bars in TABLE 1.
291	2 of 5	Added Option 2 for Top Slab Placement in SCHEMATIC "A".
292	2 of 14	Changed Note #5 minimum size of deformed wire to D4.0 (per ASTM A1064 - 8.3.1); Changed Note #4 cover requirements to 2" for slightly and moderately aggressive, and 3" for extremely aggressive. (to match SDG).
CURBS, CONCRETE PAVEMENT AND SIDEWALKS		
304	1 of 7	Changed General Note #10.
310	1 of 2	Changed the Index references from 851 and 861 to Indexes 852 and 862 for the SIDEWALK WITH EDGE BEAM FOR SURFACE MOUNTED RAILS detail.
TRAFFIC RAILINGS		
400	2 of 26	Changed Note #1 web address; Changed Note #8, QPL to APL.
	18 of 26	Changed Note #3, QPL to APL.
	24 of 26	Changed Notes #2 and #3, QPL to APL.

INDEX No	SHEET No	DESCRIPTION	
410	1 of 25	Added New Note #2 Longitudinal Reinforcement note; Renumbered Notes.	
	3 of 25	Changed Note #5.	
	4 of 25	Added construction joint and dowels; Added additional Notes for construction joint and dowels; Added Longitudinal Reinforcement Note and Vertical Reinforcement spacing Note.	
	5-7 of 25	Removed foundation lines within the ELEVATION view of the barrier.	
	14 of 25	Added Centerline callout to OPPOSING LANE APPROACH detail for clarification; Updated Longitudinal Reinforcement note and added Vertical Reinforcement spacing note.	
	15 of 25	Added Centerline callout to OPPOSING LANE APPROACH for clarification. Added Notes from Sheet 14.	
	20 of 25	Added Longitudinal Reinforcement Note, Vertical Reinforcement spacing Note, and 1/2" Expansion Material Note.	
	21 of 25	Changed notes to match Sheet 20.	
	22 of 25	Added Centerline callout to OPPOSING LANE APPROACH for clarification and changed Departure line leaders to match style of Sheet 15.	
	24 of 25	Added Longitudinal Reinforcement Note and Vertical Reinforcement spacing Note.	
	412	1 of 5	Changed Notes #1 and #5; Added new Note #6 and renumbered.
	414	4 of 15	Deleted Note #8; Renumbered Notes.
6 of 15		Changed "Design Speed" to "Work Zone Speed" callouts in the FREESTANDING ROADWAY INSTALLATION detail.	
7 of 15		Changed "Design Speed" to "Work Zone Speed" callouts in the FREESTANDING MEDIAN INSTALLATION detail.	
415	1 of 7	Changed Notes #8 and #9.	
423	1 of 3	Changed bullet railing maximum height to 48" and rail splice/expansion joint location tolerance to 1'-0".	
	2 of 3	Changed SHBR to 48" in TYPICAL SECTION and VIEW B-B, Changed Post callouts in NOTE.	
461	1 of 1	Changed Note #2.	
470	1 of 3	Corrected ASTM A449 reference designation in ANCHOR BOLT, NUTS AND WASHERS note.	
GENERAL			
500	1 of 2	Changed the notes for the HALF SECTIONS WITH AND WITHOUT OVERBURDEN.	
501	All	Deleted Index. The remaining details moved to the PPM and Structures Manual.	
514	1 of 2	Changed General Notes; Added new Base Options column; Changed "*" note and added "*" note.	
515	6 of 7	Changed Note #2; Deleted 5' dimension and added See Note #2; Added See Note #1 to the Auxiliary Lane Width callout.	
518	2 of 3	Added back details for rigid pavement with rigid shoulders and showed Profiled Thermoplastic Markings.	
519	1 of 1	New Index; Changed Note #1; Deleted Notes #4-#7.	
521	1 of 1	Changed the mounting location to inside the cheekwall with minor adjustments to the widths.	

INDEX No	SHEET No	DESCRIPTION
526	2 of 8	Deleted the Varies Dimension Line on all three details; Corrected Table "Minimum Under Restraints" changed to "Minimum Under Constraints".
546	1 of 6	Added "driveways" to Note #1; Added new note to provide definition of Minor Road, which includes "driveways"; Added "Design" to Tree spacing Table (i.e. Design Speed).
	2 of 6	Changed the Minor Road Under Stop Control (dL Dimension) from the center of the roadway to the centerline of the lane.
TRAFFIC CONTROL THROUGH WORK ZONES		
600	All	Deleted lights and flags from work zone signs and their references within the Index; Deleted lights from all channelizing devices.
	1 of 13	Changed Table of Contents for Sheet #8 and #11; Deleted the symbols for the "Orange Flag for TCZ signs" and "Type B Lights for TCZ signs"; Renumbered to 1 of 12.
	4 of 13	Deleted Sheet 4.
	5 of 13	Renumbered to 4 of 12.
	6 of 13	Renumbered to 5 of 12.
	7 of 13	Renumbered to 6 of 12; Changed PROJECT INFORMATION SIGN NOTES.
	8 of 13	Renumbered to 7 of 12.
	9 of 13	Renumbered to 8 of 12.
	10 of 13	Renumbered to 9 of 12; Changed the DROP-OFF CONDITION NOTES #2 and #3; added Note #5; Renumber Notes; Changed Note #7 and #9; Added Note #10; Changed the * Note for the DROP-OFF CONDITION DETAIL. Deleted the SHOULDER TREATMENT detail and notes; Changed the PEDESTRIAN AND/OR BICYCLIST WAY DROP-OFF CONDITION NOTES #1 AND #2; Changed WARNING DEVICE NOTES #2; Changed Table 1-Condition #4; Deleted Table 1's Notes #1 and #2.
	11 of 13	Renumbered to 10 of 12.
	12 of 13	Renumbered to 11 of 12; Deleted Note #4; Renumbered Notes #5- #12; Added new Note #12. Added Note #12; Added Barrier Delineators to the LONGITUDINAL CHANNELIZING DEVICES details.
	13 of 13	Renumbered to 12 of 12.
	603	All
604	1 of 1	Deleted lights and flags from work zone signs and their references within the Index; Clarified reference to, and use of, Temporary Raised Rumble Strips.
605	1 of 1	Deleted lights and flags from work zone signs and their references within the Index; Clarified reference to, and use of, Temporary Raised Rumble Strips.
606	All	Deleted lights and flags from work zone signs and their references within the Index.
	1 of 4	Changed General Notes #2, #3, #4 and #8; Added Note #10.
607	1 of 1	Added Option 1 and 2 to the WORK IN TRAVEL WAY detail; Changed the Arrow Board in the WORK WITHIN TRAVEL LANE and WORK ON SHOULDER details.
608	1 of 1	Deleted lights and flags from work zone signs and their references within the Index.

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612	1 of 1	Deleted lights and flags from work zone signs and their references within the Index; Changed General Note #1.
613	All	Deleted lights and flags from work zone signs and their references within the Index.
614	All	Deleted lights and flags from work zone signs and their references within the Index.
615	1 of 1	Deleted lights and flags from work zone signs and their references within the Index.
616	All	Deleted lights and flags from work zone signs and their references within the Index.
617	1 of 1	Deleted lights and flags from work zone signs and their references within the Index.
618	1 of 1	Deleted lights and flags from work zone signs and their references within the Index.
619	1 of 2	Added Options 1 and 2 to the WORK WITHIN TRAVEL LANE detail; Changed the Arrow Board in the WORK WITHIN TRAVEL LANE detail.
	2 of 2	Changed the Advance Warning (AW) Vehicle Arrow Board Mode in the Work Within Travel Way, Center Lane or Outside.
620	All	Deleted lights and flags from work zone signs and their references within the Index.
621	1 of 1	Deleted lights and flags from work zone signs and their references within the Index.
622	1 of 1	Deleted lights and flags from work zone signs and their references within the Index.
623	1 of 1	Deleted lights and flags from work zone signs and their references within the Index.
625	1 of 1	Deleted lights and flags from work zone signs and their references within the Index.
628	1 of 1	Deleted lights and flags from work zone signs and their references within the Index.
630	All	Deleted lights and flags from work zone signs and their references within the Index.
635	1 of 1	Deleted Index and merged content with Index 603.
640	All	Deleted lights and flags from work zone signs and their references within the Index.
641	All	Deleted lights and flags from work zone signs and their references within the Index.
	3 of 3	Changed GENERAL NOTE #1 and #5.
642	1 of 1	Deleted the Steady Burning Lights references.
650	1 of 2	Deleted lights and flags from work zone signs.
	2 of 2	Changed GENERAL NOTE #1.
651	1 of 2	Deleted lights and flags from work zone signs and their references within the Index.
660	1 of 1	Redeveloped Index.
667	All	Deleted lights and flags from work zone signs and their references within the Index.
670	1 of 1	Deleted lights and flags from work zone signs and their references within the Index.
FENCING AND PEDESTRIAN RAILINGS		
810	2 of 4	Changed Anchor note to repair galvanizing per Specification Section 562.
811	3 of 3	Changed Anchor note to repair galvanization per Specification Section 562.

INDEX No	SHEET No	DESCRIPTION
812	2 of 4	Changed Anchor note to repair galvanization per Specification Section 562.
820	1 of 1	Changed Title to "27" Concrete Parapet with Pedestrian/Bicycle Bullet Railing"; Rail splice /expansion joint location tolerance to 1'-0"; Deleted Triple Rail; Changed Post B2 to Post B or D.
821	1 of 1	Changed SHBR to 48", Post "B1" to Post "B"; Changed rail splice/expansion joint location tolerance to 1'-0".
822	1 of 3	Added Post "D"; Deleted Post "A" triple rail; Changed posts "B1" & B2" to Post "B". Updated Anchor Bolts; Deleted NOTE; Deleted Triple Rail references.
	3 of 3	Changed minimum splice bar lengths for Tapered End Transitions.
851	1 of 3	Changed total height of SHBR to 48"
	2 of 3	Changed position of 3"x2" plate washer to underside of support bracket for SCHEME 3.
852	All	Changed total height of SHBR to 4'-0".
	1 of 8	Added Grade 55-7/16" diameter 4-Bolt Anchorage to ANCHOR BOLTS note; Changed SHIM PLATE note to '...greater than 1/4" between 3 posts and local irregularities greater than 1/8" beneath base plates'.
	3 of 8	Changed post mounting location to top of steps and landing; Added callout for Leveling Channel to DETAIL "K".
	4 of 8	Added Optional 4-Bolt Anchorage holes to BASE PLATE A, BASE PLATE B and SHIM PLATE Details; Changed mounting location on stairs and SHBR dimension to 48" in DETAIL "A".
	5 of 8	Changed SHBR dimensions to 3'-1 1/4".
	6 of 8	Add * Note for CNC cut 1/2" plate for Type 3 Panel Infill.
	8 of 8	Added TYPICAL SECTION FOR 4-BOLT ANCHORAGE (Case IV) and 4-Bolt Anchorage option to DETAIL "C"; Changed mounting location on TYPICAL SECTION ON STEPS & STAIRS.
	8 of 8	Added TYPICAL SECTION FOR 4-BOLT ANCHORAGE (Case IV) and 4-Bolt Anchorage option to DETAIL "C"; Changed mounting location on TYPICAL SECTION ON STEPS & STAIRS.
861	1 of 3	Changed total height of SHBR to 4'-0".
	2 of 3	Changed position of 3"x2" plate washer to underside of support bracket for SCHEME 3.
862	All	Changed total height of SHBR to 4'-0"; Renumbered Sheets 4-8 to 5-9.
	1 of 9	Added Post Type "C" and Top Plate Extrusion; Grade 55 - 7/16" diameter 4-Bolt Anchorage to ANCHOR BOLTS note; Changed SHIM PLATE note to '...greater than 1/4" between 3 posts and local irregularities greater than 1/8" beneath base plates'.
	2 of 9	Changed SHBR to 48"; Added Type "C" Post option.
	3 of 9	Added callout for Leveling Channel to DETAIL "K"; Changed post mounting location to top of steps and landing.
	4 of 9	Added Optional 4-Bolt Anchorage holes to BASE PLATE A, BASE PLATE B and SHIM PLATE Details. Clarified which side of rail to place stiffener plate; Changed plug weld to tack weld in * NOTE and SHBR to 48".
	5 of 9	Added new sheet with Post Type "C" and Top Plate Extrusion connection details.
	6 of 9	Changed SHBR dimensions to 3'-1 1/4".

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862	7 of 9	Changed SHBR dimensions for total 48" height; Added * Note for CNC cut 1/2" plate for Type 3 Panel Infill.
	9 of 9	Added ** Note and 2'-10" dimension to TYPICAL SECTION ON CONCRETE SIDEWALK; TYPICAL SECTION FOR 4-BOLT ANCHORAGE (Case IV) and 4-Bolt Anchorage option to DETAIL "C"; Changed mounting location on TYPICAL SECTION ON STEPS & STAIRS.
870	1 of 5	Changed SHIM PLATES note '...greater than 1/4" between 3 posts and local irregularities greater than 1/8" beneath a base plate'.
	3 of 5	Changed post mounting location to top of steps and landing.
	4 of 5	Added optional 4-Bolt Base Plate and shim; Changed subtitle of ALTERNATE BASE PLATE DETAIL.
	5 of 5	Changed Epoxy note in Anchorage Detail Option 1 and TYPICAL SECTION ON STEPS & STAIRS.
880	1 of 5	Changed SHIM PLATES note '...greater than 1/4" between 3 posts and local irregularities greater than 1/8" beneath a base plate'.
	3 of 5	Changed post mounting location to top of steps and landing; Added cross reference note.
	4 of 5	Added optional 4-bolt Base Plate and shim; Changed subtitle of ALTERNATE BASE PLATE DETAIL.
	5 of 5	Changed Epoxy note in Anchorage Detail Option 2 & 3 and TYPICAL SECTION ON STEPS & STAIRS.
NOISE AND PERIMETER WALL SYSTEMS		
5200	1 of 16	Changed Note 10 A.2 to include 17' wall height.
	4 of 16	Changed Note reference from H to 10 (Elevation step at bottom of wall).
	5 of 16	Changed Note reference from J to 6.
	7 of 16	Removed fire hose access from sub-title.
	8 & 11 of 16	Revised Note number references in dimensions.
	15 of 16	Added note to clarify Wall Height in POST/PILE ELEVATION and VIEW A-A; Changed "Post Lengths" column title in Table 1A; Changed Pile Lengths in Table 1B.
	16 of 16	Changed "Post Lengths" column titles in Tables 2A and 3A; Changed Pile Lengths in Table 2B and 3B.
5212	1 of 2	Added ** Note for "Stay-In-Place Plastic Bond Breaker"; Optional Shear Key in EXPANSION JOINT DETAIL; Optional GFRP Shear Dowel Bar to Note #3; Added Shear Key Note #5; Renumbered Notes #5 thru #12.
	2 of 2	Added Optional Shear Key to TYPICAL SECTION.
5215	1 of 1	Added GFRP dowel option to Note #3; Added optional Shear Key to Note #5 and drawings.
5250	1 of 10	Added block size to Note 12 B.
	9 of 10	Added block size to Table 2.

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INDEX No	SHEET No	DESCRIPTION
WALL SYSTEMS		
6010	2 of 2	Added ** Note for "Stay-In-Place Plastic Preformed Bond Breaker" to SECTION A-A joint details.
6011	1 of 1	Changed toe berm dimensions for SCHEME 1, 2 & 3 to "See Plans"; Maximum Upper Slope to 1:1 1/2 in SCHEME 1; Moved design criteria to IDS; Added "Upper" and "Lower" Slope labels in SCHEMES 1, 2 & 3; Deleted Preformed Bond Breaker color in KEYWAY & WALL JOINT DETAIL.
6020	1 of 1	Changed dimension at toe of wall in TYPICAL MSE RETAINING WALL SECTION; Deleted last sentence of Note 13.
6030	1 of 1	Deleted "Specifications" Notes (information is in the IDS).
6110	1 of 6	Added ** Note for "Stay-In-Place Plastic Preformed Bond Breaker"; Optional Shear Key in EXPANSION JOINT DETAIL; Optional GFRP Shear Dowel Bar to Note #4; Added Note #6; Renumbered Notes #6 thru #12.
	2 of 6	Added Optional Shear Key at Expansion Joint in TYPICAL SECTION.
	3 of 6	Added Optional Shear Key at Expansion Joint in TYPICAL SECTION.
6120	1 of 3	Added ** Note for "Stay-In-Place Plastic Preformed Bond Breaker"; Optional Shear Key in EXPANSION JOINT DETAIL; Optional GFRP Shear Dowel Bar to Note #4; Note #6; Renumbered Notes #6 thru #12; Deleted slip forming restriction in Note #2.
	2 of 3	Added Optional Shear Key at Expansion Joint in TYPICAL SECTION.
	3 of 3	Added Optional Shear Key at Expansion Joint in TYPICAL SECTION.
6130	2 of 2	Pedestrian/Bicycle Railing; Changed triple bullet rail to double rail.
6201	1 of 1	Changed recess depth to 1'-1 1/4" Max. and Deleted 6" Min. Embed dimension in SECTION A-A.
SIGNING AND MARKINGS		
11200	2 of 3	Changed the SHIM Length for Section W 8x24 to 1 3/4" and the SHIM length for Section W 12x45 to 2 3/8" in the Table.
	3 of 3	Deleted the SHIM Column for the Table; Changed the rotation of the Stiffener Plate; Changed Table; Clarified the Base Connection Details callouts.
11310	1 of 5	Reorganized Notes; CANTILEVER SIGN STRUCTURE NOTES; Added reference to Index 11300.
	2 of 5	Added (*) 3" Grout Pad Cover note to Section B-B; Added Drain Hole dimension.
11320	1-4 of 5	Rotated truss L brackets to face downwards.
	1 of 5	Reorganized Notes; added reference to Index 11300.
	3 of 5	Deleted 4" dimension from Aluminum Zee Sign Hanger callout on BACK-SIDE SIGN MOUNTING DETAIL.
11860	All	Reorganized Index including Notes.
	4 of 9	Added Note #3.
11861	All	Reorganized Index including Notes.
	2 of 2	Corrected the 4" Max. dimension line.

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11862	1 of 7	Changed the Anchor Bolt length to 18"; Changed Note #5 Specification reference.	
	2 of 7	Changed the Anchor Bolt length to 18"; Sheet 3 Clarified Solar Batter Compartment and Beacon controller; Added Nominal 4" to the pole callout.	
	3 of 7	Clarified Solar Batter Compartment and Beacon controller.	
	4 of 7	Changed the Anchor Bolt length to 18"; Added Nominal 4" to the pole callout.	
	5 & 6 of 7	Changed the Anchor Bolt length to 18"; Clarified Solar Battery Compartment and Beacon controller; Added Nominal 4" to the pole callout.	
	7 of 7	Changed the Anchor Bolt length to 18"; Clarified Solar Battery Compartment and Beacon controller; Corrected the 5'-0" dimension of the Front View; Added Nominal 4" to the pole callout.	
	11871	1 of 2	Deleted Payment Note.
13417	1 of 1	Deleted the Sheets and Plates Note.	
17302	1 of 1	Added note to CASE VIII; Added note to CASE II for 4' Wrong Way Signage.	
17345	3 of 4	Change 3' x 9' to 3' - 9'.	
	4 of 4	Changed "24" STOP BAR WHITE" to "24" STOP LINE WHITE"; Changed location of the 25' between turn arrow and added dimension lines.	
17346	1 of 14	Deleted the Black Edge Contrast Option For 10'-30' White Skip; Clarified 2'-4' As Dotted Lines; Changed 3'-9' Skip Line to Dotted Line; Deleted Basic Color Rule Note; Clarified Arrow & Message Note; Clarified Yield Marking Note.	
	2 of 14	Changed 6'-10' Skip to 6'-10' Dotted.	
	3 of 14	Changed STOP BAR to STOP LINE; Added YELLOW to 18" Diagonal Line callout.	
	4 of 14	Changed SKIP to DOTTED, multiple locations.	
	8 of 14	Corrected the 15' Dimensions in the Typical Pavement Markings For R/R Crossing Section.	
	9 of 14	Changed General Note #6.	
	11 of 14	Changed Stop Bar 24" White (Typ) to 24" White (Typ).	
	12 of 14	Changed the callout for the Aisle marking from CHEVRONS to DIAGONALS.	
	13 of 14	Changed Audible & Vibratory term to Profiled Thermoplastic; Changed General Notes; Modified Sheet Title; Modified Rural Intersection Layout.	
	14 of 14	Changed Audible & Vibratory term to Profiled Thermoplastic; Modified Sheet Title-Provided clarification for marking type for transverse markings in the Special Emphasis Crosswalk.	
	17347	All	Redeveloped Index.
		1 of 5	Changed "BIKE LANE SYMBOL" to "HELMETED BICYCLIST SYMBOL"; Changed Notes #1 & #2.
		5 of 5	Changed "3'-9' SKIP" to 3'-9' DOTTED"; Clarified starting point of dashed lines for the Buffered Bike Lanes within Taper.
	17351	2 of 2	Changed the Sign Numbers.
17352	2 of 2	Replaced the RPM Placement Traffic Channelization at Gore figure with the previous figure from the 2013 Design Standards; Changed the Notes; Changed the Notes for PLACEMENT OF RPM'S ON SHOULD MARKINGS.	
17354	1 of 1	Changed the General Note #5.	
17359	2 of 2	Changed the "6" Yellow Audible and Vibratory Edge Line" callout for INSERT A and B to "Rumble Striping Asphalt Rdwys, Profiled Thermoplastic for Concrete Rdwys"	

INDEX No	SHEET No	DESCRIPTION
ROADWAY LIGHTING		
17502	1 of 6	Reorganized Notes.
	2 of 6	Clarified the 2'-0" height from the grade to the top of the drilled shaft; Clarified the Note.
17504	1 of 2	Showed concrete around pull boxes.
17505	All	Changed the horizontal pipe diameter; reorganized index.
	2 of 2	Clarified set screw location.
17515	2 of 8	Reorganized Notes.
	4 of 8	Deleted "Connection Bolt" from the POLE BASE ELEVATION callout.
	4-7 of 8	Changed Note #1. Removed requirement for split lock washer.
	5 of 8	Corrected BEARING PLATE PLAN 1 5/16" top and bottom dimensions match.
	8 of 8	Deleted Instructions to Designer.
TRAFFIC SIGNAL AND EQUIPMENT		
17723	All	Rearranged Index.
	1 of 3	Reorganized Notes.
	2 of 3	Deleted Foundation Note (moved to the IDS).
17725	1 of 8	Reorganized Notes; Sheets 2-8: Delete Note 1, * & **, changed *** Note to *.
	2, 3, 5-8 of 8	Changed Notes (Some Notes were moved to Sheet 1).
17727	1 of 2	Deleted Note Under the Prestressed Concrete Pole Plan View; Changed the view of the Automatic Compression Clamps from "Plan View" to "Elevation View" in the STEEL POLE and PRESTRESSED CONCRETE POLE details.
	2 of 2	Changed Field Drill 1#4" to 1/4".
17745	All	Rearranged Index.
	1 of 5	Reorganized Notes.
	2 of 5	Added note to the Base Plate and Anchorage Elevation Detail.
17784	1 of 2	Changed Note #6.
17841	1 of 1	Changed Notes #2 and #3 for New Controller Cabinet; Changed Note #1 for the Existing Controller Cabinet.
PLANNING		
17900	All	Changed wiring details, poles and notes; Reorganized Index.
INTELLIGENT TRANSPORTATION SYSTEMS (ITS)		
18100	1 of 1	Changed Note #1 and #2; Added Note #3; Deleted 4' Min. dimension between pole and guardrail added "See Note #3"; Added callout to guardrail.
18102	2 of 4	Added callout to the Guardrail.
18300	1 of 9	Deleted the 4' Min from the Guardrail in the clear zone and added "See Note #3"; Deleted "Clear Zone"; Changed Note #1 and #3; Added Note #4; deleted PPM reference in the Min. Clearance dimension.
	2 of 9	Added callout for Guardrail.
PRESTRESSED CONCRETE BEAMS		
20005	1 of 1	Deleted Index.
20199	1 of 1	Added "& HORIZONTAL CURVE" to CASE 2 title.
20299	1 of 1	Added "& HORIZONTAL CURVE" to CASE 2 title.

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INDEX No	SHEET No	DESCRIPTION
BRIDGE BEARINGS		
20510	1 of 1	Clarified "Skew Angle" for the Beam and Bearing Pad.
SQUARE AND ROUND CONCRETE PILES		
20602	1 of 1	Deleted 3/4" Diameter Vents in ELEVATION. Changed Note #1; Added Note #2 and reference to Tip gauge extension cable callout in SECTION A-A.
20630	1 of 1	Deleted 2" Diameter Vent through head of pile in ELEVATION, SECTION C-C, D-D, E-E & F-F; Deleted Note #1; Renumbered Notes; Changed Note #2 (Previous Note #3).
20631	1 of 1	Deleted Note #1 and 2" Diameter vents in ELEVATION, SECTION A-A & PILE SPLICE DETAIL; Renumbered Notes #1-#3; Changed Note #1 (Previous Note #2).
APPROACH SLABS		
20910	1 of 2	Added rigid pavement dowel bars in SECTION A-A.
STRUCTURES ACCESS AND LIGHTING		
21200	1 of 3	Added "shift to maintain lap with Bars 4F1" to callout for Bars 4G in TYPICAL SECTION...LESS THAN 1'-1 1/2" AT COPING.
	3 of 3	Deleted Note #3; Changed last sentence of Note #2 to Note #3.
21250	1 of 1	Changed Note #9: Hatch assembly to be included in the cost of the box in which it is installed.
21251	1 of 1	Changed Note #9: Hatch assembly to be included in the cost of the box in which it is installed.
21252	1 of 1	Added "Dim." to dimension variables H and W in ELEVATION VIEW; Added ** Note.
TEMPORARY DETOUR BRIDGES		
21600	2-6 of 7	Changed to triple-single panel configuration with AB8 Bearing, to meet FL-120 & HS-25 loading.
21630	1 of 3	Changed HP Strut Beam designation in View AA.
21640	1, 2, 4 & 5 of 6	Changed W Beam Guardrail height to match new Roadway Standard. Changed dimension on thrie-beam from CL beam to CL top bolt. Changed post spacing to match Index 400.
	1-3 of 6	Added third truss to Acrow Bridge in Partial Plan View.
POST-TENSION DETAILS		
21801	1 of 2	Combined Sheets 1 & 2 and updated for use with flexible filler.
	2 of 2	Deleted Sheet.
21802	1 of 1	Changed for use with flexible filler; Changed "PT Bar" to "Bar Tendon".
21803	All	Changed for use with flexible filler; Changed "PT Bar" to "Bar Tendon".