

DESIGN STANDARDS

FOR DESIGN, CONSTRUCTION, MAINTENANCE AND UTILITY OPERATIONS ON THE STATE HIGHWAY SYSTEM

2013

TOPIC NO. 625-010-003

Approved For Use On Federal Aid Projects

For (Martin Knopp, Division Administrator

State of Florida, Department Of Transportation Roadway Design Office Mail Station 32 605 Suwannee Street Tallahassee, Florida 32399-0450

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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.

Manager, Traffic Data Section Transportation Statistics Office Richard L. Reel. Jr.	As To Planning Design Standards No.	As To Roadway Design Standards Nos.	State Roadw David C. O'H P.E. No. 337
P.E. No. 22400 Hash Code: 499BE6B3-DC472FAE-110BA9BD-1D074C44-B9C6B811	17900	001-105 199-288 293-415 430, 461 500 505-535 546, 560 600-803 870-880 11200-11860 11871 13417-17890	Hash Code: CBED14AC-E
State Traffic Operations Engineer Mark C. Wilson P.E. No. 46780	As To ITS Design Standards Nos.	As To Structures Design Standards Nos.	State Struct Robert V. Ro P.E. No. 361
Hash Code: F312151F-D84C5A08-3E7A3C81-0644D626-040605BC	18100-18300	289-292 420-425 470-484 501, 540 810-862 5200-6201 11870 20005-21930	Hash Code: F348536F-5
	As To Landscape Architecture Design Standards Nos.	State Transportation Landscape Architec Jeff H. Caster LA0001592	t
	544, 591	Hash Code: 307163EB-D401AE3F-C42A7838-9FF7ABE	3D-BEB7968F

way Design Engineer Hagan 1713

-B18184E4-7493C881-AB6EBBD5-65810C4E

ctures Design Engineer Robertson, Jr. 160

50675F43-17720CB9-171B0634-5380733A

REVISIONS

Booklet Revisions

ABBREVIATIONS AND SYMBOLS

- 001 Standard Abbreviations
- 002 Standard Symbols

EROSION CONTROL AND WATER QUALITY

- 104 Permanent Erosion Control
- 105 Shoulder Sodding and Turf on Existing Facilities

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- 211 Curb Inlet Tops Types 5 and 6
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- 213 Curb Inlet Type 8
- 214 Curb Inlet Top Type 9
- 215 Curb Inlet Top Type 10
- 216 Closed Flume Inlet
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- 219 Concrete Barrier Wall Inlet
- 220 Gutter Inlet Type S
- 221 Gutter Inlet Type V
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Index No	Sheet No	Description
Abbr	EVIATIONS	AND SYMBOLS
		Added PPP for Polypropylene pipe.
1		Added CJP for Complete Joint Penetration weld.
		Added LCD for Longitudinal Channelizing Device.
Drai	NAGE	
199	1	Removed reference to deleted "Index 102" from the STANDARD CRITERIA table.
	2	Added to the end of leader note in EYEBOLT AND CHAIN FOR LOCKING GRATES TO INLETS detail "or Precaster QCP Approved Connector".
201	5	RECTANGULAR SEGMENT WITH PIPE OPENING AT CORNER, Note 1 revised to say "1. Submit Shop Drawings of corner openings for approval by the engineer of record."
	2	Clarified lapping of vertical legs in the back wall of the Precast/WWR inlet option.
211	3	Added 4 1/2" bend to Bar 4E.
211	4	Added 4 1/2" bend to Bar 4E and changed length in BILL OF REINFORCING STEEL table. Clarified lapping of vertical legs in the back wall of the Precast/WWR inlet option.
261	2	Corrected font mismatch.
272	6	GENERAL NOTES, Note 2 "pipe (PVC) side drain" should be " pipe (PVC) and polypropylene pipe (PPP) for cross drain"
273	7	GENERAL NOTES, Note 2 "pipe (PVC) side drain" should be " pipe (PVC) and polypropylene pipe (PPP) for side drain"
289	7	Clarified 2'-0" additional length in SECTION A-A and SECTION B- for Payment of Type II Connection.
Curb	s, Concr	ETE PAVEMENT AND SIDEWALKS
304	6	Removed the 2' Level Landing from PICTORIAL VIEW A in upper lefthand corner of sheet.
307	1	Deleted GENERAL NOTE 10.
Traf	fic Raili	NGS
	13	Deleted "Guardrail Transition Cost" note from the ELEVATION vie detail.
400	17	Revised Note 1 to better clarify the criteria associated with implementing PEDESTRIAN SAFETY TREATMENTS, Deleted cost information note (Note 3). Changed "Pedestrian Ways" to "Sidewalks". Changed "Bikeways" to "Shared Use Paths".
	18	Revised "See Note 1" to "See PEDESTRIAN SAFETY TREATMENTS " on PLAN view detail. Deleted Note 1, renamed Note 2 to Note 1 and renamed Note 3 to Note 2. Revised the renumbered Note 2 for clarity. Deleted dimensions based on proprietary products for SECTION BB and SECTION CC.
	22	Revised the "Class I " concrete label to read "Class NS" concrete on SECTION detail.
	23	Changed "Pedestrian Ways" to "Sidewalks". Changed "Bikeways" to "Shared Use Paths".
	26	Deleted last sentence from Note 1 of the LATERAL PLACEMENT 0 SLOPES table.
414	1	Corrected Specification Section from "6.8" to "105" in FABRICATION NOTES, added "ALTERNATE DESIGN" notes.
	1	

REVISIONS

Index No	S heet No	Description
	2 thru 7	Revised Dot pattern note within sheet legend
	2	Deleted star note from Legend, and changed ALIGNMENT AND LENGTH OF NEED notes to state "bolts or stakes. See sheet 3 through 6".
415	3	Changed "Design Speed" to "Work Zone Speed" for Length of Advancement table.
	4	Changed "Near Lane Line Or Near Traffic Lane" to read "Edge Of Travel Way". Broke barrier system with line to illustrate actual length.
	5&6	Changed "Traffic Lane" to "Travel Way".
	7	Added note 4, and flipped "Redirective Option" with "Temporary"
420	2	Corrected 10 3/4" dimension at top of railing in SECTION A-A.
470	1	Renamed "Pedestrian Safety Pipe Rail" to "Pedestrian Safety Treatments". Removed "The Pedestrian Safety Pipe Rail," from the "PAYMENT: " note.
Gene	RAL	
514	1	Revised GENERAL NOTES, Notes 1 and 3; also revised symbol notes for calirity.
	2	Revised symbol to match Sheet 1.
	1	Added missing Return Radius Points to SKETCH ILLUSTRATING DEFINITIONS plan view.
	2,3&4	Deleted text and associated leader note "4' Min., May be reduced to 3' Min. in restricted conditions when approved by the Engineer." and replaced with "4' Min."
515	5	Changed "Edge of Pavt" to "Edge of Travel Way". Changed "Rdwy. Pavt." to "Travel Way". Added Return Radius Points on PLAN views. Added notes for Intersections. Renamed "LONGITUDINAL SECTION" to "DRAINAGE SECTION". Added "TURNOUT" to "PROFILE AND END VIEW" title.
	6	Changed "roadway pavement" to "travel way pavement thickness".
	7	Deleted text "4' Std.; 3' Min." replaced with "4' Min." Changed "Roadway Pavt." to "Travel Way".
516	1	Changed "Edge of Pavt." to "Edge of Travel Way".
Traf	fic Conti	ROL THROUGH WORK ZONES
	2	Added a sentence to end of SIGHT DISTANCE note in reference to "Construction equipment".
	3	Added "107/2004 or " to HIGH-VISIBILITY SAFETY APPAREL.
	4	Deleted the flashing light and flag from the ONE LANE ROAD AHEAD signs.
600	6	Added note No. 2 under GENERAL NOTES. Changed note No. 7 under POST MOUNTED SIGN NOTES, from "3 ft ² " to "5 ft ² " and removed "for single post post mounting".
	11	Added to TEMPORARY LANE SEPARATOR notes. Revised BUSINESS ENTRANCE SIGN notes and deleted note No. 5.
	12	Added Longitudinal Channelizing Device (LCD). Added note 11 and note 12 to the GENERAL NOTES.
602	1	Added " * Midway between signs" under the DISTANCE BETWEEN SIGNS table.
615	1	Corrected merging traffic sign direction.
616	3	Changed "significant right turning" to "significant left turning" in note No. 1.

Index No	Sı J
619	
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651	1
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Fenc	ING
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heet No	Description
1	Added New Note 2, Notes 3, 4, 5 and 8 revised. Revised detail for Work on Shoulder and Work Within Travel Lane.
2	Deleted detail for Work Within Travel Lane, Outside or Inside Lane. Revised detail for Work Within Travel Lane, Center Lane and detail for Work Within Travel Lane.
1	Deleted "6" Min., 4' Std." and replaced with "See Index 415". Changed 1:20 to 1:15 for barrier system transition angle.
& 2	Changed 1:20 to 1:15 for barrier system transition angle.
1	Added Pedestrian LCD to SYMBOLS and MID-BLOCK SIDEWALK CLOSURE WITH TEMPORARY WALKWAY.
e Safi	ETY
2	GENERAL NOTES, Note 1 now begins "When shielding an object and sidewalks" Note 2, Updated reference to the Utility Accommodation Manual.
and 1	Pedestrian Railings
1	Added to note No. 2 and added Type IIB to note No. 11.
1	Changed size of Post "A" and Post "B" in TABLE 1 - RAILING MEMBERS.
3	Changed Top Rail overhang to 1 5/8" in DETAIL "J".
4	Changed Base Plate post spacing in SECTION G-G.
8	Clarified intent of 3' Min. dimension for Case I.
4	Corrected Base Plate post spacing edge dimensions in SECTION G-G.
8	Clarified intent of 3' Min. dimension for Case I.
5	Clarified intent of 3' Min. Dimension for TYPICAL SECTION ON CONCRETE SIDEWALK.
5	Clarified intent of 3' Min. Dimension for TYPICAL SECTION ON CONCRETE SIDEWALK.
BARRIE	r Systems
1	Removed Note K; Changed Note E (title only), H, and J.
2	Clarified Note 1.
3	Changed Min. dimension of Top Panel; other minor clarification changes to notes and call-outs.
hru 13	Completely reorganized details; clarified labels; removed unnecessary information and redundant information; drainage hole spacing redefined; eliminated C-I-P collar details where possible; developed new C-I-P collar for 90 degree corner typical piles.
15	Modified Bar Bending Details to match changes on Sheets 4 thru 13; Removed redundant notes; made Pile/Post Elevation and View A-A generic.
16	Added Table Note.
YSTEM	3
3 & 4	Clarified orientations of tongue and groove for fabrication of Types "B" and Types "C" with new designations of Types "B1", "B2", "C1" and "C2".
2	Changed Concrete (Precast Coping Only) and (Precast Barrier & Coping) quantities in ESTIMATED QUANTITIES table.
3	Added Note 9 to REINFORCING STEEL NOTES. Added missing Bar 5S or 8S1 in TYPICAL SECTION. Changed Concrete quantity in ESTIMATED QUANTITIES table.

INDU NO DBSCRIPTION 1 Corrected spacing of Bars 5B2 in PARTIAL PLAN VIEW. 2 2 Changed Concrete (Precast Coping), Reinforcing Steel (Precast Coping) and (C-1-P Raised Sidewalk) quantities in ESTINATED Davels in TYPICAL SECTION. 6120 3 Changed vertical leg dimension on Bar 5A to 1'-0'', horizont dimension for Precast Coping to 3-11' and total lengths of SA, and corrected size of Bars 4.0' nEHMORCING STEEL DEMONS DIAGRAM. Changed Concrete and Reinforcing Steel (Prypicial) quantities in ESTINATEO DUWITTIES table. Change dege spacing of Bars 5B2 and 1'' Dowels in TYPICAL SECTIO. Changed REIMFORCING STEEL NOTES 3, 4 & 7. 91000 2 Corrected Elevation view of BASE CONNECTION drawing for detail. 11310 2 Changed base of upright-to-gusset plate weld. 11320 2 Changed VIELD sign detail and added ** note. Revised * not BRACKET DETAIL. 11870 1 & 2 Made minor note clarifications. 11871 New Index 1 11874 1 Added ** note to Lane Width Sharrow table. 11347 1 Added ** note SE I details for signs to read correctly. 17347 1 Added ** note SE I details for signs to read correctly. 17347 1 Added ** note to Lane Width Sharrow table. 17347<	—		
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6120 3 Changed vertical leg dimension on Bar SA to 1'-10", horizont, SA; and corrected size of Bars 4C in REINFORCING STEEL BENDKO DIAGRAM, Changed Correct and ReINFORCING STEEL (Typical) quantities in ESTIMATED QUANTITIES table. Change edge specing of Bars SB2 and 1'D Dowels in TYPICAL SECTIO. Changed REINFORCING STEEL NOTES 3, 4 & 7. SIGNING AND MARKINGS 2 Corrected Elevation view of BASE CONNECTION drawing for detail. 11300 2 Changed base of upright-to-gusset plate weld. 11310 2 Changed base of upright-to-gusset plate weld. 11320 2 Changed VIELD sign detail and added ** note. Revised * not BRACKET DETAIL. 11870 1 & 6.2 Made minor note clarifications. 11871 New Index 1 11347 2 Changed the limensions to BUSINESS ENTRANCE SIGN. 11870 1 & 6.2 Made minor note Clarifications. 11871 New Index 1 11874 1 Added ** note to Lane Width Sharrow table. 17349 1 Revised bottom CASE I details for signs to read correctly. 17355 10 Changed note No. 7 in reference to joint sealer. 17500 1 Added #6 Copper Ground Wire to METAL POLE WIRING DETAI 17502 6 Changed note No. 7 in reference to joint		2	Changed Concrete (Precast Coping), Reinforcing Steel (Precast Coping) and (C-I-P Raised Sidewalk) quantities in ESTIMATED QUANTITIES table. Changed edge spacing of Bars 5B1, 5B2 and 1" Dowels in TYPICAL SECTION.
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		2	Removed obsolete references to Bars 4L.
20036 1 Changed call out of "Safety Sleeve with Cap" to "Safety Line Anchorage Device" and modified detail to remove dimensions showing generic representation in END VIEW only.	20036	1	Changed call out of "Safety Sleeve with Cap" to "Safety Line Anchorage Device" and modified detail to remove dimensions showing generic representation in END VIEW only.

REVISIONS

Index No	Sheet No	Description
20045	1	Changed call out of "Safety Sleeve with Cap" to "Safety Line Anchorage Device" and modified detail to remove dimensions showing generic representation in END VIEW only.
20054	1	Changed call out of "Safety Sleeve with Cap" to "Safety Line Anchorage Device" and modified detail to remove dimensions showing generic representation in END VIEW only.
20063	1	Changed call out of "Safety Sleeve with Cap" to "Safety Line Anchorage Device" and modified detail to remove dimensions showing generic representation in END VIEW only.
20072	1	Changed call out of "Safety Sleeve with Cap" to "Safety Line Anchorage Device" and modified detail to remove dimensions showing generic representation in END VIEW only.
20078	1	Changed call out of "Safety Sleeve with Cap" to "Safety Line Anchorage Device" and modified detail to remove dimensions showing generic representation in END VIEW only.
20084	1	Changed call out of "Safety Sleeve with Cap" to "Safety Line Anchorage Device" and modified detail to remove dimensions showing generic representation in END VIEW only.
20096	1	Changed call out of "Safety Sleeve with Cap" to "Safety Line Anchorage Device" and modified detail to remove dimensions showing generic representation in END VIEW only.
20210	2	Changed Note 5 to remove generic details for Safety Sleeve and require following shop drawings.
20248	1	Changed call out of "Safety Sleeve with Cap" to "Safety Line Anchorage Device" and modified detail to remove dimensions showing generic representation in END VIEW only.
20254	1	Changed call out of "Safety Sleeve with Cap" to "Safety Line Anchorage Device" and modified detail to remove dimensions showing generic representation in END VIEW only.
20263	1	Changed call out of "Safety Sleeve with Cap" to "Safety Line Anchorage Device" and modified detail to remove dimensions showing generic representation in END VIEW only.
20272	1	Changed call out of "Safety Sleeve with Cap" to "Safety Line Anchorage Device" and modified detail to remove dimensions showing generic representation in END VIEW only.
Squa	re and F	Round Concrete Piles
20602	1	Clarified applicability of 3/4" vent hole and changed location; Changed distance of EDC at tip from D to 2D.
Approach Slabs		
20900	1	Added 2" (Typ.) cover to sides in SECTION A-A.
20910	1	Added 2" (Typ.) cover to sides in SECTION A-A.
S tru	CTURES A	ccess and Lighting
21210	2	Changed Note 3 to exclude the use of galvanized steel pull boxes in extremely aggressive environments.

