

**Revisions
Design Standards
2006**

Index Number	Sheet Number	Description	Index Number	Sheet Number	Description
001	1 of 2	Revised the table of content to reflect the addition of the Structures Indexes. Added CTPB-Cement Treated Permeable Base, ATPB-Asphalt Treated Permeable Base, MD-Machine Direction, CD-Cross Direction, and kN-Kilo Newton, HSHV-High Strength Horizontal Vertical	231	1 of 3	Added: Precast dimensions to sheet; Horizontal Wall Reinforcing Schedule (Table 1); Pipe opening schematic; Changed: Horiz. Wall Reinf. & inside cover to 3"; Note 2; Minor layout and format changes. Delete: Structure bottom wall thickness.
002	2 of 2	Added NHS-National Highway System, TTC-Temp Traffic Control, SIP-Stay In Place, QPL Qualified Products List		2 of 3	Added: Precast inlet dimensions to sheet; WWF option to Note 2; Note 8.
	2 of 3	Symbol "Guardrail" revised.		3 of 3	New sheet added for Alternate A structure bottom.
	3 of 3	The "Conduit" symbol revised.		1 thru 6 of 6	Completely revised and addition of "Precast" options.
101	1 of 1	"General Construction Notes"-All references to Index Nos 451 and 452 renamed. 451 renamed to 801 and 452 renamed to 802.	232		
102	3 of 3	"Type IV Silt Fence"-Note reference to Index No. 451 renamed to 801.	233	1 of 1	Added: Precast dimensions to sheet for Inlet Type F; Pipe opening schematic; Notes 5 & 6; Recommended maximum pipe size table; Horiz. Wall Reinf. Tables 1 & 2. Changed: CIPL Inlet Type F inside dimensions to match precast inlet dimensions; Horizontal wall reinforcement to be continuous around corners; Cover to 3" at inside face for Type F; Cover to 3" at outside face for Type G; Bottom Slab reinforcing to #4 Bars @ 8" Ctrs. Minor format and layout changes. Deleted: Flared top of wall from CIPL inlet Type F.
104	1 of 2	Charts -revised. "General Note" added.			
	2 of 2	Elimination of asphalt mulch lines. All 4' shoulder pavement notations revised to be 5' shoulder.			
105	1 of 1	Completely revised. Sheet Title Revised.			
199	1 of 1	Chart-"Standard Criteria"-Row-"Stabilization (R)" -deleted. "MIN GRAB TENSILE STRENGTH kN", "Min Sewn Strength" and "Min Puncture" - Elongation info revised.	234	1 of 1	Added: Horiz. Wall Reinf. Table 1; Precast dimensions to sheet; Pipe opening detail to Section AA; Inset A. Changed: "General Notes"; Minor format & layout changes. Deleted: Wall thickness on INLET WITH STRUCTURE BOTTOM detail.
200	1 and 3 of 3	New Sheet added. Index completely revised.			
	1 of 3	Added: Tables 1 & 2 with precast dimensions & areas of reinforcing; Round hole riser opening to Alt.B top slab; Optional construction joint to Section C-C; Exposed reinforcing notes to Note 9; Note 15. Changed: All CIPL Concrete to Class II; Note 4 precast manufacturing reference to Specification Section 449; Note 9 minimum cover requirements and minimum lap splice length; Clarified Note 10; Additional reinforcing around pipe opening; Other minor layout, format and note changes. Deleted: Non-reinforced concrete option from Note 2; ASTM C76 from Notes 3 & 9. Moved: "Slab to Wall Detail" to Sheet 2.	235	1 of 2	Completely revised and addition of "Precast" options. Moved: Steel grate details and grate quantities to sheet 2.
	2 of 3	Added: new sheet. Changed: "Slab to Wall Detail" for shear key minimum dimensions and optional construction joint note reference to Index 201, Sheet 3. Moved: Previous Sheet 2 of 2, to 3 of 3.	245	1 of 1	New Sheet added. Detail E added. Revised Steel Grate, Inlet details and Grate Quantities Values in Table.
	3 of 3	Change design values in Tables 1 thru 5 and added Table numbers 6, 7 & 8.	252	1 of 2	"General Notes"-Note 1 revised.
			253	1 of 2	"General Notes"-Note 6 revised.
			255	1 of 1	"General Notes"-Note 6 revised.
			260	1 of 1	"General Notes"-Note 4-text "U-Endwall With Grate" revised to "U-Endwall"
			261	1 of 3	"General Notes"-Note 9 revised.
			264	1 of 1	"General Notes"-Note 6-text "Index No. 452" renamed to 802.
201	1 thru 4 of 4	Sheets 5 and 6 deleted (moved details to individual indexes). Addition of "Precast" detail added.	280	2 of 4	"Guard At Pipe Ends"- Note: "- text "Endwall, Grate," revised to "Reinforcing Steel (Miscellaneous)". "Concrete Gutter And Gutter And Drains At Retaining Walls"-Note: revised to "PVC pipe, Schedule 40 to be paid for under the contract unit price for Polyvinyl Chloride Pipe Culvert (4") LF."
	1 of 4	Added: Designer Note. Changed: Note 2.			
	2 of 4	Added: Brick adjustment and 2-piece manhole cover dimensions to Type 7 & 8 Manhole Top details; Added Note 5 & 7; Adhesive Bonded Anchor Eye Bolt option; Added Inset A. Changed: Note 5 to Note 6. EYE BOLT AND CHAIN REQUIREMENTS table for Inlet Type H with 2 center grates revised.	281	1 of 2	Chart-"Ditch Pavement"-Row with "Soil Cement" deleted. "Junction of Roadway Ditch and Lateral Ditch*" and Junction of R/Q Ditch And Lateral Ditch*"- "*" note text "Soil Cement" deleted.
	3 of 4	Added: Additional comparative side views; 6" minimum h dimension Pictorial view of segment corner pipe opening; Added 2" tolerance to pipe opening; Wall Reinforcing Splice Details. Changed: General Notes 1c, 3 & 7; cover to 2" on Optional Construction Joint Note 4.	286	1 of 2	"General Notes"-Note 6 revised.
	4 of 4	Notes and Tables revised.	287	1 of 3	"General Notes For Concrete Pavement Subdrainage"- Note 8 revised.
206	1 of 2	"General Notes" and "Design Notes"-revised.		2 of 3	"Notes For Draincrete Pavement Subdrainage"- Note 1 revised. "For Rehabilitation"- Note 1 text "Tack coat shall be paid for under the contract unit price for Bit Matl (Tack Coat), GA." deleted.
212	1 of 1	Added: Horizontal Wall Reinforcing Schedule (Table 1) Changed: Bottom slab reinforcing; horizontal wall reinforcing & inside cover to 3". General Notes. Deleted: Hooks from bottom slab #6 bars.	301	1 of 1	Taper Variation note and symbol added.
			302	1 thru 3 of 3	New Sheets added. "Traffic Separators (Type "E" Curb)" -previously Structures Standard Index No. 9020 and "Traffic Separators (Type "F" Curb)" -previously Structures Index No. 9025
213	1 of 1	Added: Horizontal Wall Reinforcing Schedule (Table 1) Changed: Bottom slab reinforcing; horizontal wall reinforcing & inside cover to 3" General Notes. Deleted: Hooks from bottom slab #6 bars.	304	1 of 6	"GENERAL NOTES"- revised. "DESIGN NOTES"- removed. "CURB RAMP DETECTABLE WARNING DETAIL" placed on Sheet 6.
				2 of 6	Note and symbol added-"*Ramp widths for Curb Ramps CR 1, CR 2, CR 6, CR 7, and CR 8 may be reduced to 3' min in restricted conditions when approved by the Engineer" and reference mark placed on those ramps.
214	1 of 1	"GENERAL NOTES"-Note 8 revised.		3 of 6	Note and symbol added-"*Ramp widths for Curb Ramps CR 10, CR 11, CR 15, CR 16, and CR 17 may be reduced to 3' min in restricted conditions when approved by the Engineer."
215	1 of 1	"GENERAL NOTES"-Note 8 revised.		4 of 6	Note and symbol added-"*Ramp widths for Curb Ramps CR 20, CR 21, CR 22, CR 24, and CR 25 may be reduced to 3' min in restricted conditions when approved by the Engineer."
217	1 of 2	Changed the grate slope. Added: Precast dimensions and details; Note 7; Pipe opening detail to Section AA, Drop Height to Grate Slope table; 2 horizontal bars shown in Section AA grate support to Sections BB, Horizontal Wall Reinforcing Schedule (Table 1); Changed: Grate slope rate to 1:6 & 1:5 only; Notes 4 and 5 revised; Horiz. Wall Reinf. & inside cover to 3".	305	6 of 6	New Sheet. "CURB RAMP DETECTABLE WARNING DETAIL" placed on this sheet.
	2 of 2	New Sheet. Pictorial Views and reinforcing details for precast collars.		1 of 4	Table-"MAXIMUM TIE BAR SPACING"-distances to closes free edge revised. Notation below table revised as follows: "When the distance to the closest free edge exceeds 24', provide a standard load transfer tied joint with #4 bars at 24" or #5 bars at 38" spacing.
218	1 of 2	Added: Note 6 & 7; Horizontal Wall Reinforcing Schedule (Table 1); Pipe opening detail to Section AA; Horiz. Wall Reinf. & inside cover to 3"; Minor format changes. Deleted: Wall dimensions from INLET WITH STRUCTURE BOTTOM schematic.	307	4 of 4	Dimensioning shown to show 14' outside lane slabs, and show 12' stripping & transitions. Transition with gore area revised.
	2 of 2	Added: Anchor bolt note to INSET A; Vertical bar spacing to Section DD; #4 Bar length and Front Wall to Section EE.	308	2 of 3	Note 5 added.
219	1 of 2	Added: Precast dimensions to sheet; Horizontal Wall Reinforcing Schedule (Table 1); Additional notes to Note 2; Note 10; Grate recess dimensions to INSET A; Pipe opening detail to Section AA; Additional reinforcing bars shown in Section AA to Section BB collar; Section 350 reference to Section FF & GG Dowels. Horiz. Wall Reinf. & inside cover to 3".	310	1 and 2 of 2	New Index-"CONCRETE SLAB REPLACEMENT".
	2 of 2	Added: Pictorial View and reinforcing details for precast collar.		1 of 2	"Section AA"- "0.02" slope revised to "0.02 Max.". "SIDEWALK WITH EDGE BEAM FOR SURFACE MOUNTED RAILINGS" details added.
220	1 of 3	Added: Precast dimensions to sheet; Horizontal Wall Reinforcing Schedule (Table 1); Inset A; Pipe opening detail to Section AA; Note 6; Note 3. Changed: Note 2 and 3; Horiz. Wall Reinf. & inside cover to 3".	400	2 of 2	Section CC-"0.02" slope revised to "0.02 Max.". "SIDEWALK WITH EDGE BEAM FOR SURFACE MOUNTED RAILINGS" details added.
	3 of 3	New Sheet added for Alternate A structure bottom. Deleted: Wall thickness on INLET WITH STRUCTURE BOTTOM detail.	400	1 thru 23	Former sheets 24 thru 31 removed to be placed on the QPL.
221	1 of 2	Added: Precast dimensions to sheet; Horizontal Wall Reinforcing Schedule (Table 1); Pipe opening detail to Section AA; RECOMMENDED MAXIMUM PIPE SIZE table. Changed: "General Notes". Horiz. Wall Reinf. & inside cover to 3". Deleted: Structure bottom wall thickness.		1 of 23	"General Notes"-Notes 6, 8, 11, and 21 revised.
	2 of 2	New sheet added for Alternate A structure bottom.		3 of 23	Added note and symbol for Type III Object Marker.
230	1 of 2	Added: Note 7; Horizontal Wall Reinforcing Schedule (Table 1); Pipe opening detail to Section AA; Changed: Note 2; Horiz. Wall Reinf. & inside cover to 3"; Minor format changes. Delete: Wall thicknesses on INLET WITH STRUCTURE BOTTOM detail.		4 of 23	"Guardrail Application For Narrow Median And Gore Hazards"-notation text referring to "General Note No. 13" deleted and "General Note No. 14" substituted. Text "1:10 Taper Rate For Design Speeds less than or equal to 45 mph., 1:15 Taper Rate For Design Speeds greater than or equal 50 mph" added.
	2 of 2	New sheet added for Alternate A structure bottom.		12 of 23	Index references revised. "Section GG" revised.
				14 of 23	All text-"Misc. Asphalt (200 lbs/sy)" replaced with "2" Misc. Asphalt".
				15 of 23	"Steel Modified Thrie-Beam Offset Block", "Side View"-text "M4x17.2" deleted and "M4x18" substituted. "MOUNTING HEIGHTS ON SHOULDERS AND IN MEDIANS", "W-BEAM WITH RUBRAIL"-dimensioning revised.
				16 of 23	All text-"Misc. Asphalt (200 lbs/sy)" replaced with "2" Misc. Asphalt". Added "Note:".
				17 of 23	"5/8" OVAL SHOULDER BUTTON HEAD BOLT" - in table under "APPLICATION" for 10" bolt, text added as follows: "As an option, a single 25"* long post bolt may be used." Under "APPLICATION" for 25" bolt, text added as follows: "Double Faced Guardrail Steel Posts."
				18 of 23	Added Thrie Beam Back-Up Plate

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Index Number	Sheet Number	Description	Index Number	Sheet Number	Description	
400 Cont.	18 of 23	"Thrie-Beam", notation text "Anchor Plate" deleted and "Post Bolt Slot" substituted. "Galvanized Steel Back-Up Plates For Connecting Special End Shoes and Terminal Connectors to Concrete Bridge Traffic Railing Barriers And Concrete Barrier Walls", "Thrie-Beam Terminal Connector", dimension "20" deleted and "21" substituted. Dimension 2 $\frac{3}{8}$ " deleted and 2 $\frac{1}{2}$ " substituted.	600	1 of 10	"CONTENT"-revised and "ROADSIDE BARRIER"- deleted. "PREFACE", text revised. "SYMBOLS"- "Channelizing device" and "Lane Identification + Direction of Traffic" added.	
	19 of 23	"SPECIAL STEEL GUARDRAIL POSTS"-Note 1-Index references "771 and 777" renamed "470 and 476".		2 of 10	"OVERHEAD WORK", and "TEMPORARY TRAFFIC CONTROL DEVICES" revised.	
	21 of 23	"Payment notes"- revised.		3 of 10	"HIGH VISIBILITY SAFETY APPAREL" added. "SURVEY WORK ZONES"-text "(MOT-1)" substituted "(MOT-1-04)".	
402	1 thru 26	Changed cross reference numbers on all schemes.		4 of 10	"Added "GROOVED PAVEMENT AHEAD SIGN", and "UTILITY WORK AHEAD SIGN". "SIGN MATERIALS", "WORK ZONE SIGN SUPPORTS", "SPEEDING FINES DOUBLED WHEN WORKERS PRESENT SIGN" and "END ROAD WORK SIGN"-text revised.	
410	1 of 22	"GENERAL NOTES"-revised.		5 of 10	The information previously on this sheet was moved to sheet 7. On this sheet information was moved from sheet 6 and advanced warning arrow panel information from sheet 8 and "TEMPORARY ASPHALT SEPARATOR" information moved from Index 614 added. "STANDARD ORANGE FLAG" and "ADVANCED WARNING ARROW PANELS" added.	
	2 of 22	"FREE END REINFORCEMENT"- "Note:" revised and free end treatment dimension for crash cushion revised.		6 of 10	"MANHOLES/CROSSWALKS", "REMOVING PAVEMENT MARKINGS", and "WARNING LIGHTS"-revised. "ROADSIDE BARRIERS"-deleted.	
	4 of 22	Note number 4 was added to Junction Box Notes.		7 of 10	The previous info on this sheet moved to sheet 5. Information on this sheet moved from sheet 7 with revised	
	5 of 22	All "Bars 10A" revised to be "Bars 4A".		8 of 10	Previous information moved to sheet 6. Info on this sheet moved from sheet 5 and "TEMPORARY ASPHALT SEPARATOR" of previous Index 614.	
	6 of 22	All "Bars 10A" revised to be "Bars 4A" and "Bars 10B" revised to be "Bars 4B".		9 of 10	Completely revised.	
	12 of 22	All "Bars 10C" revised to be "Bars 4C".		10 of 10	Renumbered "MOT-2-04" to "W1 4b", "MOT-3-04" to "W1 4c". "R2 5A" has been deleted and replaced with "W3-5".	
	17 of 22	"FOR HIGH SIDE"-detail dimention text "14'-9"" deleted and 4'-9". All "Bars 10C" revised to be "Bars 4C".		General Info changes	"W4 2" revised. "W5 2A" deleted. "W8 3A" deleted and replace with "W8 3". "MOT-15-06", "MOT-16-06", "MOT-17-06" added. "Notes" revised.	
	20 of 22	Plan detail "MEDIAN BARRIER WALL"-dimension text "16'-3"" deleted and "6'-3"" substituted.	601 thru 670		"PLACEMENT OF PAVEMENT MARKINGS"-detail modified. Notes on reflective pavement markers revised. Many of the Indexes between 601 and 670 were completely revised, combined with other Indexes, and/or renumbered. Below is a summary of the major changes:	
	22 of 22	"GUARDRAIL TRANSITION AND CONNECTION", "UNIDIRECTIONAL"-dimension 12'-6" Thrie-Beam (Nested-Near Side Only) revised to 12'-6" Thrie-Beam (Nested).			Titles blocks for most Indexes were updated to reflect the roadway type and location of work, ie, Multilane - Work on Shoulder	
412	1 of 5	New Index-"Low Profile Barrier".			Combined several Rural and Urban Indexes to reduce unnecessary duplication and address inconsistencies. -a) Sign Spacing has changed to accommodate this. See charts on each sheet. b) General Notes were updated for clarification, others were eliminated from Indexes because they were redundant with information on Index 600. Combining Day and Night Operations -a) Channelizing Device symbol was added to include all channelizing devices to be used in accordance with Index 600. Many old symbols for barricades, drums, cones have been replaced with new symbol.	
413		Index removed to be placed on the QPL.				
414	1 thru 7	New Index "Type K Temporary Concrete Barrier". Previously Structures Standard Index No. 715.				
415	1 of 10	Revised Notes 1 and 2.				
	2 of 10	Revised Notes.				
	4 of 10	Revised Note 1.				
	5 of 10	Revised "Note:".				
	7 of 10	Revised reference to indexes.				
	8 of 10	Revised references to indexes.				
416	1 thru 6	Index removed to be placed on the QPL.				
417	1 of 1	Notes 1 and 6 revised. Note 7 added.				
Note: Indexes 432, 433, 434, 435, 436, 438, 440, 441 deleted from the 2004 booklet and to be placed on QPL						
420	1 and 2	New Index "Traffic Railing Barrier"-Previously Structures Standard Index No. 700.		601	1 of 1	Completely revised.
421	1 and 2	New Index "Traffic Railing Median Barrier"-Previously Structures Standard Index No. 710.		602	1 of 1	Completely revised.
422	1 of 1	New Index "Traffic Railing Barrier-(42" Vertical Shape)"-Previously Structures Standard Index No. 720.		603	1 of 1	Completely revised.
423	1 and 2	New Index "Traffic Railing Barrier-(32" Vertical Shape)"-Previously Structures Standard Index No. 730.		604	1 of 1	Completely revised.
424	1 and 2	New Index "Traffic Railing Barrier-(Corral Shape)"-Previously Structures Standard Index No. 740.		605	1 of 1	Completely revised.
425	1 and 2	New Index "Traffic Railing Barrier-(42" F Shape)"-Previously Structures Standard Index No. 750.		606	1 of 1	Completely revised.
470	1 and 2	New Index "Traffic Railing Barrier-(Thrie Beam Retrofit)"-Previously Structures Standard Index No. 771.		607	1 of 1	Completely revised.
471	1 thru 3	New Index "Traffic Railing Barrier-(Thrie Beam Retrofit)"-Previously Structures Standard Index No. 772.		608	1 of 4	Completely revised.
472	1 thru 3	New Index "Traffic Railing Barrier-(Thrie Beam Retrofit) Wide Strong Curb-Type 1"-Previously Structures Standard 773.		611	1 of 1	Completely revised.
473	1 thru 3	New Index "Traffic Railing Barrier-(Thrie Beam Retrofit) Wide Strong Curb-Type 2"-Previously Structures Standard 774.		612	1 of 1	Completely revised.
474	1 thru 3	New Index "Traffic Railing Barrier-(Thrie Beam Retrofit) Intermediate Curb"-Previously Structures Standard Index 775.		613	1 of 1	Completely revised.
475	1 thru 3	New Index "Traffic Railing Barrier-(Thrie Beam Retrofit) Wide Curb Type 1"-Previously Structures Standard Index 776.		614	1 of 2	Completely revised.
476	1 thru 3	New Index "Traffic Railing Barrier-(Thrie Beam Retrofit) Wide Curb Type 2"-Previously Structures Standard Index 777.		615	1 of 1	Completely revised.
480	1 of 1	New Index "Traffic Railing Barrier-(Vertical Face Retrofit) General Notes & Details"-Previously Structures Standard 781.		616	1 of 3	Completely revised.
481	1 and 2	New Index "Traffic Railing Barrier-(Vertical Face Retrofit) (Narrow Curb) (2 Sheets)"-Previously Structures 782.		617	1 of 1	Completely revised.
482	1 thru 4	New Index "Traffic Railing Barrier-(Vertical Face Retrofit) (Wide Curb)"-Previously Structures Standard Index Nos 783 & 784.		618	1 of 1	Completely revised.
483	1 thru 2	New Index "Traffic Railing Barrier-(Vertical Face Retrofit)"-Previously Structures Standard Index No. 785.		619	1 of 1	Completely revised.
490	1 of 1	New Index "Skew Details For Traffic Railing Barriers, Parapets and Traffic Separators"-Previously Structures.		620	1 of 2	Completely revised.
501	3 thru 9	Table-text for tensile strength property revised. "MIRAFI" name change "MIRAFIGEOLON".		621	1 of 1	Completely revised.
	6 of 9	Added "Synteen SF 11" and Synteen SF 12" to the table, and moved all the "Raugrid" materials to a new sheet.		622	1 of 1	Completely revised.
	7 of 9	New Sheet		628	1 of 1	Completely revised.
505	3 of 3	" RIGID PAVEMENT-SPECIAL SELECT SOIL OPTION"-bottom note deleted and the following substituted: " *3" of #57 or #89 Coarse Aggregate Mixed into Top 6".		630	1 of 2	"GENERAL NOTES" -revised.
515	2 of 6	"Plan A" in the plan view detail the line indicating the back of sidewalk at the driveway is modified to be a continuous straight line in-line with the back of the sidewalk on each side of the driveway. Dimension "4' Min." deleted and the following substituted: "4' Min., May be reduced to 3' Min. in restricted conditions when approved by the Engineer." "SPECIAL NOTES FOR URBAN FLARED TURNOUTS", Note 11 is added.		631	2 of 2	"NOTES" -revised.
	3 of 6	Notation "Δ", Text "Depth less than 4' allowable only under findings of infeasibility" deleted and the following text substituted: "May be reduced to 3' Min. in restricted conditions when approved by the Engineer. Depth less than 3' allowable only under findings of infeasibility."		635	1 of 1	New Index number.
	4 of 6	Notation "Δ", Text "Depth less than 4' allowable only under findings of infeasibility" deleted and the following text substituted: "May be reduced to 3' Min. in restricted conditions when approved by the Engineer. Depth less than 3' allowable only under findings of infeasibility."		640	2 of 2	"GENERAL NOTES" -revised.
	6 of 6	"URBAN TURNOUT PROFILE" - text "3' walk around" deleted and the following substituted: "4' std., 3' min."		641	2 of 2	"GENERAL NOTES" -revised.
520	1 of 1	Revised Note 2, 3 and 4. "KEY DETAIL (TOP VIEW)"- notations revised.		642	1 of 1	"GENERAL NOTES" -revised.
525	5 of 5	AASHTO reference updated.		642	1 of 1	"GENERAL NOTES" -revised.
544	1 thru 3	Index completely revised.		650	1 of 2	"Phase II"- "Road Work 1500 Ft"-corrected
546	1 of 6	"DESIGN NOTES"-Note 2, AASHTO reference updated.		650	2 of 2	"GENERAL NOTES" -revised.
				651	1 of 2	"GENERAL NOTES" -revised.
				660	1 of 1	"GENERAL NOTES" -revised.
				670	1 of 1	"GENERAL NOTES" -revised.

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800	1 and 2	Index 450 was renumbered to 800.	17302	1 of 1	Under GENERAL NOTES note 5 last sentence 4' for rural and 6' for urban sections was changed to 5' for rural and 7' for urban sections.
801	1 and 2	Index 451 was renumbered to 801. "GENERAL NOTES"-Notes 19, 20, and 21 revised.	17344	1 of 6	Approach Speed and distances in chart revised. Under details 1, & 2 striping descriptions removed 100' Max striping distance removed. Under NOTES all school signs shall be reflective was removed. School crosswalk note changed to width at intersections shall be 6' min. 10' std. without public sidewalk curb ramps 10' min. with public sidewalk curb ramps.
802	1 and 2 2 of 2	Index 452 was renumbered to 802. "GENERAL NOTES"-Notes 11 and 12 revised. Note 13 added. "BARB WIRE ATTCHMENT", "NOTES", -text "Attachments to be paid for under the contract unit price for Fencing, Type B (With Barb Wire Attachment) LF" deleted.			
803	1 of 1	Index 453 was renumbered to 803. Index references changed.			
810	1 thru 4	New Index- "Bridge Fencing (Vertical)"-Previously Structures Standard Index No 9030. "Instructions to Designer" deleted.		2 of 6	Under detail 3 WITH FLASHING BEACON was removed from description (35 MPH or less) was added. Dimension B was changed, 6' Min crosswalk width changed to 10'. Detail 4 "(NO FLASHING BEACON)" was removed description "(40 MPH or greater)" was added. S4-5 signs were added. Text-"See Index No. 17346 sheet 9 of 13" was changed to See "Index No. 17346 sheet 2 and 7".
811	1 thru 3	New Index- "Bridge Fencing (Curved Top)"-Previously Structures Standard Index No 9031. Added Fence Application Note to the Fencing Notes to clarify where bridge fence may be used.			
812	1 thru 4	New Index-"Bridge Fencing (Enclosed)"-Previously Structures Standard Index No. 9032. "Instructions to Designer" deleted.		3 of 6	Text-"See Index No. 17346 sheet 9 of 13" removed.
820	1 of 1	New Index-"Pedestrian/Bicycle Railing"-Previously Structures Standard Index No. 800.		6 of 6	S4-5 sign detail added.
821	1 and 2 of 2	New Index-"Aluminum Pedestrian/Bicycle Bullet Railing For Traffic Railing Barrier (32" F-Shape)" -Previously Structures Standard Index No. 810	17345	1 of 4	Under NOTE 12' gaps changed to 9' gaps, last minute was removed and 3B-11 was changed to 3B-05.
822	1 and 2	New Index- "Aluminum Pedestrian/Bicycle Bullet Railing Details" -Previously Structures Index No. 820.		4 of 4	Left turn pavement arrow and distance added to detail 6" Yellow edge line changed to 8" White in detail. Under NOTES note 1 was revised.
850	1 and 2	New Index- "Steel Pedestrian/Bicycle Picket Railing"-Previously Structures Index No. 850.			
860	1 and 2	New Index-"Aluminum Pedestrian/Bicycle Picket Railing -Previously Structures Index No. 860.	17346	1 of 13	Under TYPES OF PAVEMENT LONGITUDINAL LINES contrast tape detail was added. BASIC COLOR RULE note was revised. NON-REFLECTIVE CERAMIC PAVEMENT MARKER PLACEMENT was removed.
870	1 of 1	New Index-"Aluminum Pipe Guiderail"- Previously Structures Index No 870.			
Note: Indexes 5005 thru 51301 deleted from the 2004 booklet and to be placed on the OPL when approved.					
5100	1 and 2	New Index-"Retaining Wall-Cast In Place"-Previously Structures Index Nos. 1401 and 1402.		2 of 13	SIGNING FOR MOVABLE AND NON-MOVABLE BRIDGES WITH STEEL DECK was removed. Sheet was updated and
5200	1 of 1	New Index-"Precast Sound Barriers-General Notes"-Previously Structures Index No. 1501. Deleted the word (Max.) from Texture Types "B", "C" and "D".		3 of 13	Under RESTRICTED LEFT TURN MARKING 6" White was added. Under STOP BARS, CROSSWALKS AND DOUBLE CENTER LINE DETAILS detail of double Yellow lines were removed. 100' dimension removed.
5201	1 of 1	New Index-"Precast Sound Barriers-Texture Options"-Previously Structures Index No. 1503.			
5202	1 thru 4	New Index-"Precast Sound Barriers-Flush Panel Option"-Previously Structures Index No. 1504.		5 of 13	Under LEFT ROADWAY CENTERED ON EXISTING ROADWAY detail changed A dimension between signs to 250'. W dimension added. W9-2R sign deleted W4-2R sign added. Formula revised WS (45MPH & Greater) added and 45 MPH changed to 40 MPH. *Posted speed or 85 th percentile (Use Higher Volume) changed to * Design Speed. In table "A" (FT.) distances revised. W4-2 sign added to middle detail note in detail revised. Under RIGHT ROADWAY CENTERED ON EXISTING ROADWAY sign W9-2L sign deleted W4-2L sign added.
5203	1 thru 4	New Index-"Precast Sound Barriers-Recessed Panel Option"-Previously Structures Index No. 1505.			
5204	1 of 1	New Index-"Precast Sound Barriers-Fire Hose Access Hole & Drainage Details"-Previously Structures Index No. 1506		6 of 13	Under TYPICAL MARKINGS FOR R/R CROSSING 20' dimension on (R) pavement marking changed to 6'. Under NOTES chart SPEED MPH and A (FT) speeds and distances revised.
5205	1 thru 7	New Index-"Precast Sound Barriers-Pile and Post Reinforcing Steel"-Previously Structures Index No. 1507			
5206	1 of 1	New Index-"Precast Sound Barriers-Pile Depth and Reinforcing Summary"-Previously Structures Index No. 1508		7 of 13	Added detail of Yield Markings for SPECIAL EMPHASIS CROSSWALK. Removed 3' min from SIDEWALK detail. Removed W1A-2 signs, added W11-2 and W16-7p signs. Under GENERAL NOTES note 3 Indexes 9535 through 17356 changed to 11200 through 17356.
5210	1 thru 3	New Index-"Traffic Railing Sound Barrier (8'-0")"-Previously Structures Index No. 1550. "Instructions to Designer" deleted from 1 and 3 of 3.			
5211	1 thru 3	New Index-"Traffic Railing Sound Barrier (14'-0")"-Previously Structures Index No. 1555. "Instructions to Designer" deleted.		8 of 13	Under TURN LANES CURBED AND UNCURBED MEDIANS chart distances were revised to match Index 301.
5212	1 and 2	New Index-"Traffic Railing Sound Barrier (8'-0") Junction Slab"-Previously Structures Index No. 1560		9 of 13	Under DETAIL OF BIKELANE MARKINGS symbol dimension changed and helmet added to symbol. Symbol reversed to face traffic. Symbol detail size changed from 4' to 6' and a helmet was added to detail.
5213	1 and 2	New Index-"Traffic Railing Sound Barrier T-Shape Spread Footing"-Previously Index No. 1570.			
5214	1 thru 4	New Index-"Traffic Railing Sound Barrier L-Shape Spread Footing"-Previously Index No. 1575.			
5215	1 of 1	New Index-"Traffic Railing Sound Barrier Trench Footing"-Previously Structures Index No. 1580.		11 of 13	Bike pavement marking symbol reversed to face traffic.
5300	1 thru 15	New Index-"Permanent Walls-Retaining Wall Systems"-Previously Roadway Index No. 5000.		12 of 13	Bike pavement marking symbol reversed to face traffic.
5301	1 of 1	New Index-"Temporary Walls-Retaining Wall Systems"-Previously Roadway Index No. 5000.		13 of 13	Bike pavement marking symbol reversed to face traffic.
			17350	1 of 1	Index 9535 changed to Index 11200 in note 4 under GENERAL NOTES.
			17351	1 of 2	Index 9535 changed to Index 11200 in note 1 under NOTES.
11200	1 thru 3 1 of 3	Index 9535 was renumbered to 11200 and title changed to "STANDARD ROADSIDE SIGN". Note for sign panel depth revised. Under GENERAL NOTES, DESIGN SPECIFICATIONS note (and the FDOT Standard Specifications with Supplement) was removed. Under GENERAL NOTES, STRUCTURAL STEEL (A709 Grade 36) was replaced with A36. Under GENERAL NOTES, FOUNDATION the word (concrete) replaced with the word fill. DESIGN WIND SPEED BY COUNTY chart was revised.	17352	2 of 2	Index 9535 changed to Index 11200 in note 1 under NOTES.
	2 of 3	Under FOUNDATION DETAIL W5.5 was changed to W5.			
	3 of 3	FOUNDATION DETAIL W5.5 was changed to W5.	17355	1 thru 11	Under PLACEMENT OF RPMS ON SHOULDER MARKINGS Direction of Travel arrow reversed. Reversed pavement marking (BIKE SYMBOL) to face traffic.
11300	1 of 1	Index 11037 was renumbered to 11300. Under TYPICAL SIGN FACE ELEVATION FOR OVERHEAD TRUSS dashed lines reversed in panel. Under BACKING STRIP DETAIL dashed lines reversed. Under GENERAL NOTES Index number 9535 in note 1 was changed to 11200. Under DETAIL A detail flipped to match TYPICAL DETAILS OF SIGN & TRUSS CONNECTION detail.		2 of 2	Sheet added to series changing total of sheets number.
11310	1 thru 5 1 of 5 2 of 5 3 of 5 5 of 5	New Index "Cantilever Sign Structure"-Previously Structures Index No. 2000. Changed Splice Note 15 and Grout Note 4. Added Grout Pad Note 16. Added a seal weld in Section B-B. Added a seal weld in Upright-Truss Connection Detail. Added a seal weld in Detail P.		2 of 2	Sign FTP-17-04 dimensions revised.
11320	1 thru 5 1 of 5 2 of 5 4 of 5	New Index "Span Sign Structure"-Previously Structures Index No. 2010. Changed Splice Note 15 and Grout Note 4. Added Grout Pad Note 17. Added a seal weld in Upright-Truss Connection Detail and Section A-A. Added a seal weld in Detail K.		3 of 11	Under MI-5 COUNTY ROUTE MARKER DETAIL FTP-18-04 chart completely revised dimension S added to sign detail.
11860	2 of 4 4 of 4	Under GENERAL NOTES (GENERAL SPECIFICATIONS NOTE) removed. DESIGN WIND SPEED BY COUNTY chart was revised. Under SLIP BASE DETAILS chart Radius R, Base Bolt Torque Ft-lbs, and In-lbs revised.		4 of 11	Sign FTP-20-04 text and dimension lines added.
11861	1 of 1	Under NOTES note 3 Index number 9535 was changed to 11200.		7 of 11	Sign FTP-56A-06 added.
11862	1 of 1	Under NOTES note 3 Index number 9535 was changed to 11200.		8 of 11	Sign FTP-65-04 and symbol was removed. New signs added FTP-69-06, FTP-70-06, FTP-71-06, and FTP-72-06.
11863	1 of 1	Under NOTES note 3 Index number 9535 was changed to 11200.		9 of 11	New sheet added signs FTP-73-06, FTP-74-06, FTP-75-06, FTP-76-06, FTP-77-06, FTP-78-06, FTP-79-06, FTP-80-06, FTP-81-06 and FTP-82-06.
11864	1 of 1	Under NOTES note 3 Index number 9535 was changed to 11200.			
13417	1 of 1	Under GENERAL NOTES in the last sentence Index 11037 was changed to Index 11300.	17500	1 of 2	Freeway added to description of MOT-13-04, Arterial added to description of MOT-14-04. New signs MOT-15-06, MOT-16-06, MOT 17.06, MOT 18-06 were added.
			17502	1 of 2	Under NOTES note 6 Index 9535 was changed to Index 11200.
				1 of 2	Under NOTES note 5 Index 9535 was changed to Index 11200.
				1 of 2	Sheet completely revised.
				2 of 2	New sheet added.
				1 of 3	Sheet completely revised.
				1 of 4	New Notes added to LIFT CABLE TERMINATOR Detail, LUMINAIRE SUPPORT RING Detail, BASE Detail, and PORTABLE DRILL Detail.
				2 of 4	Under POLE SPECIFICATIONS second paragraph The hand hole shall have a hinged cover that is removable and lockable with a waterproof seal was added. Paragraph 6 shop drilling of holes for grounding was removed. FOOTING notes were revised.
				3 of 4	Grounding wire moved to inside of pole connector note added details updated. Grout note was revised.
				4 of 4	SLAB DIMENSIONS revised.
			17503	1 of 1	Under METAL POLE CONCRETE FOUNDATION DETAIL Class I Special Concrete was added. 7' LENGTH in chart was changed to 8' Auger borings STP was changed to SPT.
			17504	1 of 1	Revised Photo Control mounting added detail and notes.
			17505	2 of 2	Under SECTION THROUGH SIGN SUPPORT AT LUMINAIRE 102Z5.3 was changed to Z4X3.13X3.58 Hanger 76Z 3.5 Wind Beam was changed to Z3X2.69X2.33 Wind Beam. Under DETAIL "A" ASTM F568 Class 4.6 was changed to ASTM A307. Under NOTES note 4 ASTM F568 Class 4.6 was changed to ASTM A307.

17515	1 of 7	Under ALUMINUM LIGHT POLE NOTES note 1 Aluminum Caps and Covers ASTM B26 changed to ASTM B26 (319-F). Note 5 ASTM A615-96 Grade 60 changed to ASTM A615 Grade 60. Note 15 was revised.	2010	1 of 1	New Index "Typical AASHTO Beam Details and Notes"-Previously Structures Standard Index No. 110.
	4 of 7	Under NOTE: Area = 1.5 ft was changed to Effective Projected Area = 1.5 ft.	20120	1 of 1	New Index "AASHTO Type II Beam Bulb-T Standard Details"-Previously Structures Standard Index No. 120.
	6 of 7	Case numbers changed from 1 thru 8 to 3 thru 10 on all charts.	20130	1 of 1	New Index "AASHTO Type III Beam-Standard Details"-Previously Structures Standard Index No. 130.
	7 of 7	Case numbers changed from 1 thru 7 to 5 thru 11 on all charts.	20140	1 of 1	New Index "AASHTO Type IV Beam-Standard Details"-Previously Structures Standard Index No. 140.
17600	2 of 3	Changed Misc. Asphalt dimension on both details.	20150	1 of 1	New Index "AASHTO Type V Beam-Standard Details"-Previously Structures Standard Index No. 150.
	3 of 3	Under GENERAL NOTES note 1 was removed notes were renumbered. Note 4 ASTM A615-96a, Grade 60 was changed to ASTM A615, Grade 60.	20160	1 of 1	New Index "AASHTO Type VI Beam-Standard Details"-Previously Structures Standard Index No. 160.
17723	1 of 3	Under SELECTION PROCEDURE note 1 with a 30 percent gust factor was removed. Under STEEL STRAIN POLE NOTES note 1 Steel Plates ASTM A709 Grade 36 was changed to ASTM A36. Note 4 ASTM A615-96 Grade 60 was changed to ASTM A615 Grade 60. Notes 9, 12, and 18 were removed and remaining notes were renumbered. New notes 16 and 17 were added.	20172	1 of 1	New Index "AASHTO Type VI Beam-Standard Details"-Previously Structures Standard Index No. 172.
			20178	1 of 1	New Index "Florida Bulb-T 78 Beam-Standard Details"-Previously Structures Standard Index No. 178.
			20199	1 of 1	New Index "Build-Up And Deflection Data For AASHTO And Bulb-T Beams"-Previously Structures Semi-Standard.
			20210	1 and 2	New Index "Typical Florida U Beam Details And Notes" Previously Structures Standard Index No. 210.
			20248	1 thru 3	New Index "Typical Florida U 48 Beam Details And Notes" -Previously Structures Standard Index No. 248.
			20254	1 thru 3	New Index "Typical Florida 54 Beam - Standard Details"-Previously Structures Standard Index No. 254.
	2 of 3	DETAIL C - 3/4" Dia. Weep Hole note added.	20263	1 thru 3	New Index "Florida U 63 Beam - Standard Details"-Previously Structures Standard Index No. 263.
17725	1 of 1	Notes were revised.	20272	1 thru 3	New Index "Florida U 72 Beam - Standard Details"-Previously Structures Standard Index No. 272.
17727	1 of 2	WOOD POLE, STEEL POLE, and PRESTRESSED CONCRETE POLE descriptions were added to Index. 5 section signal detail was removed from the Index. MUTCD date was removed from Index.	20299	1 of 1	New Index "Build-Up And Deflection Data For Florida U Beams"-Previously Structures Semi-Standard S-299.
			20310	1 of 1	New Index "Typical Inverted-T Beam Details And Notes" -Previously Structures Standard Index No. 310.
			20320	1 of 1	New Index "Inverted-T Beam Standard Details"-Previously Structures Standard Index No. 320.
			20400	1 of 1	New Index "Notes And Details For Precast Concrete Sheet Piles"-Previously Structures Semi-Standard S-400.
			20410	1 of 1	New Index "Precast Concrete Sheet Pile Type "A"-10 Inch Thick"-Previously Structures Standard Index 410.
17736	1 of 1	FIGURE D dimension Conduit (Rigid Galv.) Size 4/Min. was changed to Conduit (Rigid Galv.) Size 1/2" Min.	20412	1 of 1	New Index "Precast Concrete Sheet Pile Type "A"-12 Inch Thick"-Previously Structures Standard Index 412.
17741	1 and 2 of 2	Index deleted	20430	1 of 1	New Index "Precast Concrete Sheet Pile Type "B"-Variable Angle Corner Pile"-Previously Structures Standard Index 430.
17743	1 of 2	Under NOTES: note 2 was revised to Standard Mast Arm "B" Assemblies are designed as indicated in the Plans Preparations Manual.	20440	1 of 1	New Index "Precast Concrete Sheet Pile Type "C"-Right Angle Corner Pile"-Previously Structures Standard Index 440.
			20500	1 of 1	New Index "Composite Elastomeric Bearing Pads"-Previously Structures Standards Index 501.
			20501	1 of 1	New Index "Beveled Bearing Plate Details"-Previously Structures Semi-Standard 510.
			20600	1 of 1	New Index "Notes And Ddetails For Square Prestressed Concrete Piles"-Previously Structures Standard Index No 600.
17745	1 of 5	Under MAST ARM ASSEMBLIES GENERAL NOTES note 1 Steel Plates ASTM A709 Grade 36 or ASTM A36 was changed to Steel Plates ASTM A36. Note 2 ASTM A615-96, Grade 60 ksi. was changed to ASTM A615 Grade 60 ksi. Notes 15 and 18 were removed and remaining notes were renumbered. Notes 17 and 18 were added.	20601	1 of 1	New Index "Square Prestressed Concrete Pile Splices"-Previously Structures Standard Index No 601.
			20612	1 of 1	New Index "12" Square Prestressed Concrete Piles"-Previously Structures Standard Index No 612.
			20614	1 of 1	New Index "14" Square Prestressed Concrete Piles"-Previously Structures Standard Index No 614.
	2 of 5	NOTE: was revised to See Index No. 17743 and the plans for actual quantity of bolts.	20618	1 of 1	New Index "18" Square Prestressed Concrete Piles"-Previously Structures Standard Index No 618.
	3 of 5	Under SECTION H-H For tubes greater than 70" in circumference two longitudinal welds are allowed was added to NOTE:	20620	1 of 1	New Index "20" Square Prestressed Concrete Piles"-Previously Structures Standard Index No. 620.
	4 of 5	Under SECTION M-M For tubes greater than 70" in circumference, two longitudinal seam welds are allowed.	20624	1 of 1	New Index "24" Square Prestressed Concrete Piles"-Previously Structures Standard Index No. 624.
17746	1 of 4	Under Damping Device Index number 9000 changed to 17749. Under MONOTUBE SIGNAL STRUCTURES NOTES note 2 ASTM A615-96, Grade 60 ksi. Was changed to ASTM A615, Grade 60 ksi. Note 4 revised and notes 17 and 18 were added.	20630	1 of 1	New Index "30" Square Prestressed Concfcete Piles"-Previously Structures Standard Index No. 630.
			20631	1 of 1	New Index "High Moment Capacity 30" Square Prestressed Concrete Pile"-Previously Structures Standard Index No. 654.
			20654	1 and 2	New Index "54" Precast/Post-Tensioned Concrete Cylinder Pile"-Previously Structures Standard Index No. 654.
17749	1 of 1	Weld symbol changed in SECTION E-E.	20660	1 and 2	New Index "60" Prestressed Concrete Cylinder Pile"-Previously Structures Standard Index No. 660.
17784	2 of 2	New Index "Damping Device For Miscellaneous Structures"-Previously Structures Index No. 9000.	20900	1 and 2	New Index "Approach Slabs (Flexible Pavement Approaches)"-Previously Structures Semi-Standard S-900.
17870	1 of 2	Signs FTP-69-06 and R10-3e and NOTE: were added to Index.	20910	1 and 2	New Index "Approach Slabs (Rigid Pavement Approaches)"-Previously Structures Semi-Standard S-910.
17881	1 of 1	Major Street and Minor Street was added to SIGNALIZED INTERSECTION detail.	21100	1 thru 3	New Index "Strip Seal Expansion Joint"-Previously Structures Semi-Standard S-1100 and Index 1101.
			21200	1 and 2	New Index "Light Pole Pilaster"-Previously Structures Standard Index No. 1200.
17882	1 of 4	Under FRONT VIEW detail Stationary Background To Form A Portion Of "STOP AHEAD" Sign in Open Mode was added. LOCATION OF THE ADVANCED WARNING SIGN chart distances revised.	21210	1 and 2	New Index "Utility Conduit Details"-Previously Structures Standard Index No. 9010.
			21220	1 and 2	New Index "Navigation Light System Detail (Fixed Bridges)"-Previously Structures Index No. 1210.
	3 of 4	Under FIGURE 1 See Note 6 Sheet 3 changed to See Note 5 Sheet 3.	21240	1 and 2	New Index "Maintenance Lighting For Box Girders"-Previously Structures Index No. 1212.
			21300	1 of 1	New Index "Standard Bar Bending Details"-Previously Structures Index No. 1300.
17900	1 of 9	RAILROAD CROSSING AT TWO (2) - LANE ROADWAY sign W10-1 location changed, chart "A" distances revised, sizes of Pavement Marking dimensions changed from 6'-8" to 6' width changed from 13" to 12" Width May Vary According To Lane Width was changed to 8'-0".	21801	1 and 2	New Index "Post-Tensioning Vertical Profiles"-Previously Structures Index No. 1801.
	3 of 9	Under J1 MOUNTING BRACKET dimension 2.125 was changed to 2.0.	21802	1 of 1	New Index "Post-Tensioning Anchorage Protection"-Previously Structures Index No. 1802.
	4 of 9	Solar power input poles were reversed Bk (-), Red (+).	21803	1 thru 3	New Index "Post-Tensioning Anchorage And Grouting Details"-Previously Structures Index No. 1803.
	5 of 9	J1 Receptacle Pinout b Piezo 4 (8) sh red / orange was changed to b Piezo 4 (8) sh red / Yellow.			
	6 of 9	Sheet completely revised. New sheet added.			
	7 of 9	Offset dimension revised -13' to 15'.			
		Pull box (ref. Index 17721) added to both details, Note: Cabinet installed per Index 17841 except cabinet center will be 4 feet above grade was added to sheet.			