



**Florida Department of Transportation**

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**ROADWAY DESIGN BULLETIN 17-06**  
**STRUCTURES DESIGN BULLETIN 17-05**  
*(FHWA Approved: June 14, 2017)*

DATE: June 15, 2017

TO: District Directors of Transportation Operations, District Directors of Transportation Development, District Design Engineers, District Construction Engineers, District Geotechnical Engineers, District Structures Design Engineers, District Maintenance Engineers, District Roadway Design Engineers, District Traffic Operations Engineers, District Program Management Engineers, District Materials Engineers

FROM: Michael Shepard, P.E., State Roadway Design Engineer  
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SUBJECT: FDOT Standard Plans for Road and Bridge Construction - Index Crosswalk and Nomenclature

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6/14/17

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This Design Bulletin provides additional information on upcoming changes to the Department's ***Design Standards*** (Topic No. 625-010-003). As referenced in [Roadway and Structures Design Memorandums 17-01](#), beginning with the Fiscal Year (FY) 2018-19 publication the ***Design Standards*** will be retitled to the ***Standard Plans for Road and Bridge Construction (Standard Plans)*** and renumbered to align with the associated primary ***Standard Specifications for Road and Bridge Construction (Standard Specifications)*** and Pay Item group (leading 3 digits).

**Index Crosswalk – Design Standards to Standard Plans**

Included as **Attachment 'A'** is an Index Crosswalk, which provides a transitional aid in identifying the new ***Standard Plans*** Index number based on the previous ***Design Standards*** Index number. The crosswalk is being provided at this time to aid designers in properly referencing Indexes prior to the release of the ***FY 2018-19 Standard Plans for Road and Bridge Construction*** in November 2017.

The crosswalk will be published with the first two releases of the ***Standard Plans*** (FY 2018-19 and FY 2019-20). This will allow for a transition period for Contract Documents referencing the old

***Design Standards*** Index numbers in accordance with the Implementation requirements below. This will also allow for a grace period for references to Index name and number contained in other publications or documents to be changed from ***Design Standards*** and ***Standard Plans***.

### **Standard Plans – Nomenclature**

To facilitate the name change from ***Design Standards*** to ***Standard Plans***, the following is provided to ensure consistent nomenclature use:

- ***Design Standards, Index to Standard Plans, Index***
  - Example Reference: **Standard Plans, Index 425-001** or  
**Index 425-001**
- ***Instruction for Design Standards (IDS) to Standard Plans Instructions (SPI)***
  - Example Reference: **Standard Plans Instructions, Index 536-001** or  
**SPI 536-001**
- ***Design Standards Revision (DSR) to Standard Plans Interim Revision (Interim Revision)***
  - Example Reference: **Standard Plans Interim Revision, Index IR521-001-##** or  
**IR521-001-## (##, Version of Interim Revision)**
- ***Developmental Design Standards (DDS) to Developmental Standard Plans***
  - Example Reference: **Developmental Standard Plans, Index D540-001** or  
**Index D540-001**
- ***Instruction for Developmental Design Standards (IDS) to Developmental Standard Plans Instructions (DSPI)***
  - Example Reference: **Developmental Standard Plans Instructions, Index D536-001**  
or  
**DSPI-D536-001**

### **Standard Plans for Bridge Construction**

With the ***FY 2018-19 Standard Plans for Road and Bridge Construction*** and subsequent editions, the relevant ***Standard Plans for Bridge Construction*** will be required to be inserted into the Structures Component Plan Set. However, the ***Standard Plans for Road Construction*** will continue to be included in the contract by reference on the Lead Key Sheet. To accommodate this effort, the ***Standard Plans*** Indexes will be grouped by either “Road” or “Bridge”. The ***Standard Plans for Bridge Construction*** will include all Indexes relating to the bridge approach slabs, substructure and superstructure. The ***Standard Plans for Road Construction*** will include all other Indexes not related to bridges (e.g. walls, drainage, embankment utilizations, lighting, signing, signals, etc.).

The requirements and resources needed to insert the *Standard Plans for Bridge Construction* into the Structures Components Plan Set will be provided in a Structures Design Bulletin in the near future.

### **Implementation**

For conventionally let projects, the *Standard Plans* Index numbers and nomenclature must be used for projects;

- with lettings between July 2018 and June 2020 where the Phase III Submittal has not been completed. Projects beyond the Phase III Submittal may be implemented at the discretion of the Districts.
- with lettings on or after July 2020.

Design-Build projects utilizing the FY 2018-19 or later *Standard Plans* must include the appropriate Index numbers and nomenclature identified herein.

Do not include the *Standard Plans* Index numbers and nomenclature on any projects let prior to July 2018.

### **CONTACTS**

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MS/RVR/dcs

# **Attachment 'A'**

## **Index Crosswalk**

## INDEX CROSSWALK

FY 2018-19 – FDOT STANDARD PLANS FOR ROAD AND BRIDGE CONSTRUCTION

<u>Design Standards Index</u>	<u>Standard Plans Index</u>	<u>Index Title</u>	<u>Design Standards Index</u>	<u>Standard Plans Index</u>	<u>Index Title</u>
<b><u>Erosion Control and Water Quality</u></b>			<b><u>Drainage (cont.)</u></b>		
104	570-001	Permanent Erosion Control	261	430-011	U-Type Concrete Endwalls-Baffles and Grate Optional – 15" To 30" Pipe
105	570-010	Shoulder Sodding and Turf on Existing Facilities	264	430-012	U-Type Concrete Endwall-Energy Dissipator – 30" to 72" Pipe
<b><u>Drainage</u></b>			266	430-040	Winged Concrete Endwalls – Single Round Pipe
200	425-010	Structure Bottoms – Type J and P	268	Deleted	U-Type Sand-Cement Endwalls
201	425-001	Supplementary Details for Manholes and Inlets	270	430-020	Flared End Section
206	436-001	Trench Drain	272	430-021	Cross Drain Mitered End Section
210	425-020	Curb Inlet Tops – Types 1, 2, 3 and 4	273	430-022	Side Drain Mitered End Section
211	425-021	Curb Inlet Tops – Types 5 and 6	280	430-001	Miscellaneous Drainage Details
212	425-022	Curb Inlet – Type 7	281	524-001	Ditch Pavement and Sodding
213	425-023	Curb Inlet – Type 8	282	425-060	Back of Sidewalk Drainage
214	425-024	Curb Inlet Top – Type 9	283	520-010	Median Opening Flume
215	425-025	Curb Inlet Top – Type 10	284	520-005	Concrete Shoulder Gutter Spillway
216	425-061	Closed Flume Inlet	285	443-001	French Drain
217	425-030	Median Barrier Inlets Types 1, 2, 3, 4 and 5	286	440-001	Underdrain
218	425-031	Barrier Wall Inlet	287	446-001	Concrete Pavement Subdrainage
219	425-032	Concrete Barrier Wall Inlet	288	444-T01	Deep Well Injection Box
220	425-040	Gutter Inlet – Type S	289	400-289	Concrete Box Culvert Details (LRFD)
221	425-041	Gutter Inlet – Type V	291	400-291	Supplemental Details for Precast Concrete Box Culverts
230	425-050	Ditch Bottom Inlet – Type A	292	400-292	Standard Precast Concrete Box Culverts
231	425-051	Ditch Bottom Inlet – Type B	293	425-090	Safety Modifications for Inlets in Box Culverts
232	425-052	Ditch Bottom Inlet – Type C, D, E and H	295	430-090	Safety Modifications for Endwalls
233	425-053	Ditch Bottom Inlet – Type F and G	<b><u>Curbs, Concrete Pavement and Sidewalks</u></b>		
234	425-054	Ditch Bottom Inlet – Type J	300	520-001	Curb & Curb and Gutter
235	425-055	Ditch Bottom Inlet – Type K	301	Deleted*	Turn Lanes [*Content moved to the FDM]
240	425-070	Skimmer For Outlet Control Structures	302	520-020	Traffic Separators
241	443-002	Skimmers For French-Drain Outlets	303	Deleted	Curb Return Profiles
245	440-002	Underdrain Inspection Box	304	522-002	Detectable Warnings and Sidewalk Curb Ramps
250	430-030	Straight Concrete Endwalls – Single And Multiple Pipe	305	350-001	Concrete Pavement Joints
251	430-031	Straight Concrete Endwalls – Single And Double 60" Pipe	306	370-001	Bridge Approach Expansion Joint – Concrete Pavement
252	430-032	Straight Concrete Endwalls – Single And Double 66" Pipe	307	125-001	Miscellaneous Utility Details
253	430-033	Straight Concrete Endwalls – Single And Double 72" Pipe	307	425-080	NEW: Utility Conflicts thru Drainage Structures (Note: Index 307, Sheet 2 of 3)
255	430-034	Straight Concrete Endwalls – Single 84" Pipe	308	353-001	Concrete Slab Replacement
258	Deleted	Straight Sand-Cement Endwalls	310	522-001	Concrete Sidewalk
260	430-010	U-Type Concrete Endwalls With Grates – 15" to 30" Pipe			

## INDEX CROSSWALK

FY 2018-19 - FDOT STANDARD PLANS FOR ROAD AND BRIDGE CONSTRUCTION

Design Standards Index	Standard Plans Index	Index Title	Design Standards Index	Standard Plans Index	Index Title
<b>Traffic Railings</b>			<b>General</b>		
400	536-001	Guardrail	500	120-002	Removal of Organic and Plastic Material
402	536-002	Guardrail Transitions and Connections for Existing Bridges	505	120-001	Embankment Utilization
404	521-404	Guardrail Transitions - Existing Post & Beam Bridge Railings (Narrow & Recessed Curbs)	506	000-506	Miscellaneous Earthwork Details
405	521-405	Guardrail Transitions - Existing Post & Beam Bridge Railings (Wide Curbs)	510	000-510	Superelevation - Rural Highways, Urban Freeways and High Speed Urban Highways
410	521-001	Concrete Barrier	511	000-511	Superelevation - Urban Highways and Streets
411	521-002	Pier Protection Barrier	515	000-515	Turnouts
412	102-120	Low Profile Barrier	516	000-516	Turnouts - Resurfacing Projects
414	102-110	Type K Temporary Concrete Barrier System	517	546-001	Raised Rumble Strips
415	102-100	Temporary Concrete Barrier	518	546-010	Shoulder Rumble Strips
420	Deleted	Traffic Railing - (32" F Shape)	519	546-020	Rumble Striping
421	Deleted	Traffic Railing - (Median 32" F Shape)	521	400-021	Concrete Steps
422	521-422	Traffic Railing - (42" Vertical Shape)	525	000-525	Ramp Terminals
423	521-423	Traffic Railing - (32" Vertical Shape)	526	Deleted*	Roadway Transitions [*Content moved to the FDM]
424	Deleted	Traffic Railing - (Corral Shape)	527	Deleted*	Directional Median Opening [*Content moved to the FDM]
425	Deleted	Traffic Railing - (42" F Shape)	530	Deleted	Rest Area Pavilion
426	521-426	Traffic Railing - (Median 36" Single-Slope)	532	110-200	Mailboxes
427	521-427	Traffic Railing - (36" Single-Slope)	535	Deleted	Tractor Crossing
428	521-428	Traffic Railing - (42" Single-Slope)	540	141-T01	Settlement Plate
430	544-001	Crash Cushion Details	542	110-100	Tree Protection and Preservation
461	521-010	Opaque Visual Barrier	544	580-001	Landscape Installation
470	460-470	Traffic Railing - (Thrie-Beam Retrofit) General Note & Details	546	Deleted*	Sight Distance at Intersections [*Content moved to the FDM]
471	460-471	Traffic Railing - (Thrie-Beam Retrofit) Narrow Curb	560	830-T01	Railroad Crossings
472	460-472	Traffic Railing - (Thrie-Beam Retrofit) Wide Strong Curb Type 1	<b>Traffic Control Through Work Zones</b>		
473	460-473	Traffic Railing - (Thrie-Beam Retrofit) Wide Strong Curb Type 2	600	102-600	General Information for Traffic Control Through Work Zones
474	460-474	Traffic Railing - (Thrie-Beam Retrofit) Intermediate Curb	601	102-601	Two-Lane, Two-Way, Work Outside Shoulder
475	460-475	Traffic Railing - (Thrie-Beam Retrofit) Wide Curb Type 1	602	102-602	Two-Lane, Two-Way, Work On Shoulder
476	460-476	Traffic Railing - (Thrie-Beam Retrofit) Wide Curb Type 2	603	102-603	Two-Lane, Two-Way, Work Within The Travel Way
477	460-477	Thrie-Beam Panel Retrofit (Concrete Handrail)	604	102-604	Two-Lane, Two-Way, Work in Intersection
480	521-480	Traffic Railing - (Vertical Face Retrofit) General Notes & Details	605	102-605	Two-Lane, Two-Way, Work Near Intersection
481	521-481	Traffic Railing - (Vertical Face Retrofit) Narrow Curb	606	102-606	Two-Lane, Two-Way, Work Within the Travel Way - Signal Control
482	521-482	Traffic Railing - (Vertical Face Retrofit) Wide Curb	607	102-607	Two-Lane, Two-Way, Mobile Operation, Work On Shoulder and Work Within the Travel Way
483	521-483	Traffic Railing - (Vertical Face Retrofit) Intermediate Curb	608	102-608	Two-Lane, Two-Way, Temporary Diversion Connection
484	521-484	Traffic Railing - (Vertical Face Retrofit) Spread Footing Approach	611	102-611	Multilane, Work Outside Shoulder
			612	102-612	Multilane, Work on Shoulder

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<u>Design Standards Index</u>	<u>Standard Plans Index</u>	<u>Index Title</u>	<u>Design Standards Index</u>	<u>Standard Plans Index</u>	<u>Index Title</u>
<b><u>Traffic Control Through Work Zones (Cont.)</u></b>			<b><u>Fencing and Pedestrian Railings (Cont.)</u></b>		
613	102-613	Multilane, Work Within Travel Way-Median or Outside Lane	821	515-021	Bridge Aluminum Pedestrian/Bicycle Bullet Railing for Traffic Railing
614	102-614	Multilane, Work Within Travel Way-Center Lane	822	515-022	Bridge Aluminum Pedestrian/Bicycle Bullet Railing Details
615	102-615	Multilane, Work in Intersection	825	521-825	42" Concrete Pedestrian/Bicycle Railing
616	102-616	Multilane, Work Near Intersection-Median or Outside Lane	851	515-051	Bridge Pedestrian/Bicycle Railing (Steel)
617	102-617	Multilane, Work In Intersection - Center Lane	852	515-052	Steel Pedestrian/Bicycle Railing
618	102-618	Multilane, Work In Intersection - Two Lanes Closed-45mph or Less	861	515-061	Bridge Pedestrian/Bicycle Railing (Aluminum)
619	102-619	Multilane, Mobile Operations Work on Shoulder, Work Within Travel Way	862	515-062	Aluminum Pedestrian/Bicycle Railing
620	102-620	Multilane, Divided, Temporary Diversion Connection	870	515-070	Aluminum Pipe Guiderail
621	102-621	Multilane Undivided, Temporary Diversion Connection	880	515-080	Steel Pipe Guiderail
622	102-622	Multilane, Work Near Intersection - Temporary Diversion Connection 35mph or Less	<b><u>Noise And Perimeter Wall Systems</u></b>		
623	102-623	Multilane, Work Within the Travel Way Double Lane Closure	5200	534-200	Precast Noise Walls
625	102-625	Temporary Road Closure - 5 Minutes or Less	5210	521-510	Traffic Railing/Noise Wall (8'-0")
628	102-628	Two Way Left Turn Lane Closure	5211	521-511	Traffic Railing/Noise Wall (14'-0")
630	102-630	Crossover for Paving Train Operations, Rural	5212	521-512	Traffic Railing/Noise Wall (8'-0") Junction Slab
631	102-631	Temporary Crossover	5213	521-513	Traffic Railing/Noise Wall T-Shaped Spread Footing
640	102-640	Converting Two-Lanes to Four-Lanes Divided, Rural	5214	521-514	Traffic Railing/Noise Wall L-Shaped Spread Footing
641	102-641	Converting Two-Lanes to Four-Lanes Divided, Urban	5215	521-515	Traffic Railing/Noise Wall Trench Footing
642	102-642	Transitions for Temporary Concrete Barrier Wall on Freeway Facilities	5250	534-250	Perimeter Walls
650	102-650	Two-Lane Two-Way, Rural Structure Replacement	<b><u>Wall Systems</u></b>		
651	102-651	Multilane Divided, Maintenance and Construction	6010	400-010	C-I-P Cantilever Retaining Wall
655	102-655	Traffic Pacing	6011	400-011	Gravity Wall
660	102-660	Pedestrian Control for Closure of Sidewalks	6020	548-020	Permanent MSE Retaining Wall Systems
665	102-665	Limited Access, Temporary Opening	6030	548-030	Temporary MSE Retaining Wall Systems
667	102-667	Toll Plaza, Traffic Control Standards	6040	455-400	Precast Concrete Sheet Pile Wall
670	102-670	Motorist Awareness System	6100	521-600	MSE Wall Coping (Precast or C-I-P)
<b><u>Fencing and Pedestrian Railings</u></b>			6110	521-610	Wall Coping With Traffic Railing/Junction Slab
800	550-004	Fence Location	6120	521-620	Wall Coping With Traffic Railing/Raised Sidewalk
801	550-001	Fence - Type A	6130	521-630	Wall Coping/Parapet With C-I-P Sidewalk
802	550-002	Fence - Type B	6200	521-650	Coping Mounted Light Pole Pedestal
803	550-003	Cantilever Slide Gate - Type B Fence	6201	521-640	Junction Slab at Drainage Inlet Openings
810	550-010	Bridge Fencing (Vertical)	<b><u>Signing and Marking</u></b>		
811	550-011	Bridge Fencing (Curved Top)	11200	700-020	Multi-Column Ground Sign
812	550-012	Bridge Fencing (Enclosed)	11300	700-030	Steel Overhead Sign Structures
820	521-820	27" Concrete Parapet with Pedestrian/Bicycle Bullet Railing	11310	700-040	Cantilever Sign Structure

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FY 2018-19 – FDOT STANDARD PLANS FOR ROAD AND BRIDGE CONSTRUCTION

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<b><u>Signing and Marking (Cont.)</u></b>			<b><u>Traffic Signal and Equipment (Cont.)</u></b>		
11320	700-041	Span Sign Structure	17733	634-002	Aerial Interconnect
11860	700-010	Single Column Ground Signs	17736	639-002	Electrical Power Service
11861	700-011	Single Column Cantilever Ground Mounted Sign	17743	649-030	Standard Mast Arm Assemblies
11862	700-120	Roadside Flashing Beacon Assembly	17745	649-031	Mast Arm Assemblies
11870	700-012	Single Post Bridge Mounted Sign Support	17748	700-050	Free-Swinging Internally-Illuminated Street Sign Assemblies
11871	700-013	Single Post Median Barrier Mounted Sign Support	17764	653-001	Pedestrian Control Signal Installation Details
13417	700-110	Mounting Exit Number Panels To Highway Signs	17781	660-001	Vehicle Loop Installation Details
17302	700-101	Typical Sections For Placement of Single & Multi-Column Signs	17784	665-001	Pedestrian Detector Assembly Installation Details
17328	700-108	Typical Signing for Truck Weigh & Inspection Stations	17841	676-010	Cabinet Installation Details
17344	Deleted*	School Signs & Markings [*Content moved to Speed Zone Manual]	17870	671-001	Standard Signal Operating Plans
17345	711-003	Interchange Markings	17881	509-100	Advance Warning For R/R Crossing
17346	711-001	Pavement Markings	17882	509-070	Railroad Grade Crossing Traffic Control Devices
17347	711-002	Bicycle Markings	17890	508-T01	Traffic Control Devices For Movable Span Bridge Signals
17349	700-109	Traffic Controls For Street Terminations	<b><u>Planning</u></b>		
17350	700-104	Signing For Motorist Services	17900	695-001	Traffic Monitoring Site
17351	700-105	Welcome Center Signing	<b><u>Intelligent Transportation Systems (ITS)</u></b>		
17352	706-001	Typical Placement Of Reflective Pavement Markers	18100	Deleted	CCTV Pole Placement
17354	700-103	Tourist Oriented Directional Signs	18101	Deleted*	Typical CCTV Site [*Combined with CCTV Indexes]
17355	700-102	Special Sign Details	18102	Deleted*	Grounding And Lightning Protection [*Combined with CCTV and DMS Indexes]
17356	659-010	Span Wire Mounted Sign Details	18104	Deleted	Typical CCTV Cabinet Equipment Layout
17357	700-107	Bridge Weight Restrictions	18105	Deleted	CCTV Block Diagram
17359	700-106	Rural Narrow Bridge Treatment	18107	Deleted*	Ground Mounted CCTV Cabinet [*Combined with CCTV Indexes]
<b><u>Roadway Lighting</u></b>			18108	Deleted*	Pole Mounted CCTV Cabinet [*Combined with CCTV Indexes]
17500	715-001	Conventional Lighting	18110	659-020	Camera Mounting Details
17502	715-010	High Mast Lighting	18111	649-020	Steel CCTV Pole
17504	639-001	Service Point Details	18113	641-020	Concrete CCTV Pole
17505	700-031	External Lighting For Signs	18300	700-090	Dynamic Message Sign Walk-In
17515	715-002	Standard Aluminum Lighting	<b><u>Prestressed Concrete Beams</u></b>		
<b><u>Traffic Signal and Equipment</u></b>			20010	450-010	Typical Florida-I Beam Details and Notes
17700	635-001	Pull & Splice Box	20036	450-036	Florida-I 36 Beam - Standard Details
17721	630-001	Conduit Installation Details	20045	450-045	Florida-I 45 Beam - Standard Details
17723	649-010	Steel Strain Pole	20054	450-054	Florida-I 54 Beam - Standard Details
17725	641-010	Concrete Poles	20063	450-063	Florida-I 63 Beam - Standard Details
17727	634-001	Signal Cable & Span Wire Installation Details	20072	450-072	Florida-I 72 Beam - Standard Details



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<u>Design Standards Index</u>	<u>Standard Plans Index</u>	<u>Index Title</u>	<u>Design Standards Index</u>	<u>Standard Plans Index</u>	<u>Index Title</u>
<b><u>Prestressed Concrete Beams (Cont.)</u></b>			<b><u>Structures Access and Lighting</u></b>		
20078	450-078	Florida-I 78 Beam – Standard Details	21200	521-660	Light Pole Pedestal
20084	450-084	Florida-I 84 Beam – Standard Details	21210	630-010	Conduit Details
20096	450-096	Florida-I 96 Beam – Standard Details	21220	510-001	Navigation Light System Details (Fixed Bridges)
20120	450-120	AASHTO Type II Beam	21240	715-240	Maintenance Lighting For Box Girders
20199	450-199	Build-Up & Deflection Data For Prestressed I-Beams	21250	460-250	Access Hatch Assembly For Steel Box Sections
20210	450-210	Typical Florida-U Beam Details and Notes	21251	460-251	Access Hatch Assembly For Concrete Box Sections
20248	450-248	Florida-U 48 Beam – Standard Details	21252	460-252	Access Door Assembly For Concrete Box Sections
20254	450-254	Florida-U 54 Beam – Standard Details	<b><u>Standard Bar Bending Details</u></b>		
20263	450-263	Florida-U 63 Beam – Standard Details	21300	415-001	Standard Bar Bending Details
20272	450-272	Florida-U 72 Beam – Standard Details	<b><u>Temporary Detour Bridges</u></b>		
20299	450-299	Build-Up and Deflection Data For Florida-U Beams	21600	102-200	Temporary Detour Bridge General Notes and Details
<b><u>Bridge Bearings</u></b>			21610	102-210	Temporary Detour Bridge Details – Timber Pile Foundations
20502	450-502	Beveled Bearing Plate Details – Prestressed Florida-U Beams	21620	102-220	Temporary Detour Bridge Details – Steel H Pile Foundations
20510	400-510	Composite Elastomeric Bearing Pads–Prestressed Florida-I & AASHTO Type II Beams	21630	102-230	Temporary Detour Bridge Details – Steel Pipe Pile Foundations
20511	450-511	Bearing Plates (Type 1) – Prestressed Florida-I & AASHTO Type II Beams	21640	102-240	Temporary Detour Bridge Thrie-Beam Guardrail
20512	450-512	Bearing Plates (Type 2) – Prestressed Florida-I & AASHTO Type II Beams	<b><u>Post-Tensioning</u></b>		
<b><u>Square and Round Concrete Piles (With Carbon Steel)</u></b>			21801	462-001	Post-Tensioning Vertical Profile
20600	455-001	Notes and Details For Square Prestressed Concrete Piles	21802	462-002	Post-Tensioning Anchorage Protection
20601	455-002	Square Prestressed Concrete Pile Splices	21803	462-003	Post-Tensioning Anchorage and Grouting Details
20602	455-003	EDC Instrumentation For Square Prestressed Concrete Piles	<b><u>Fender System Details</u></b>		
20612	455-012	12" Square Prestressed Concrete Pile	21930	471-030	Fender System – Prestressed Concrete Piles
20614	455-014	14" Square Prestressed Concrete Pile	<b><u>Wall Systems (Corrosion Resistant)</u></b>		
20618	455-018	18" Square Prestressed Concrete Pile	22440	455-440	Precast Concrete CFRP/GFRP & HSSS/GFRP Sheet Pile Wall
20620	455-020	20" Square Prestressed Concrete Pile	<b><u>Square and Round Concrete Piles (Corrosion Resistant)</u></b>		
20624	455-024	24" Square Prestressed Concrete Pile	22600	455-101	Notes and Details for Square CFRP & SS Prestressed Concrete Piles
20630	455-030	30" Square Prestressed Concrete Pile	22601	455-102	Square CFRP and SS Prestressed Concrete Pile Splices
20631	455-031	High Moment Capacity 30" Square Prestressed Concrete Pile	22612	455-112	12" Square CFRP and SS Prestressed Concrete Pile
20654	455-054	54" Precast/Post-Tensioned Concrete Cylinder Pile	22614	455-114	14" Square CFRP and SS Prestressed Concrete Pile
20660	455-060	60" Prestressed Concrete Cylinder Pile	22618	455-118	18" Square CFRP and SS Prestressed Concrete Pile
<b><u>Approach Slabs</u></b>			22624	455-124	24" Square CFRP and SS Prestressed Concrete Pile
20900	400-090	Approach Slabs (Flexible Pavement Approaches)	22630	455-130	30" Square CFRP and SS Prestressed Concrete Pile
20910	400-091	Approach Slabs (Rigid Pavement Approaches)	22654	455-154	54" Square CFRP and SS Prestressed Concrete Pile
<b><u>Bridge Expansion Joints</u></b>			22660	455-160	60" Square CFRP and SS Prestressed Concrete Pile
21100	458-100	Strip Seal Expansion Joint			
21110	458-110	Poured Joint With Backer Rod Expansion Joint System			