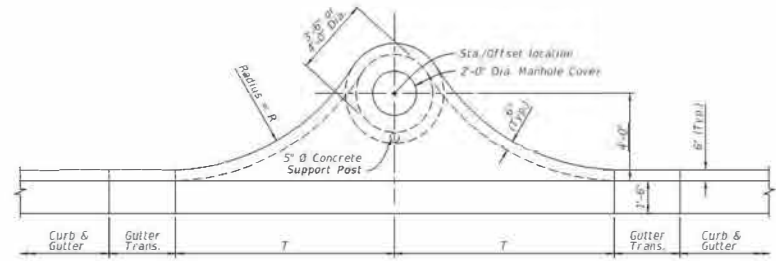


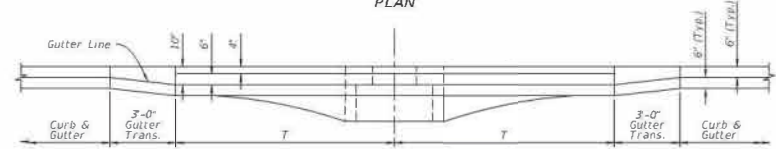
PLAN



ELEVATION
 TYPE 1 AND 3



PLAN

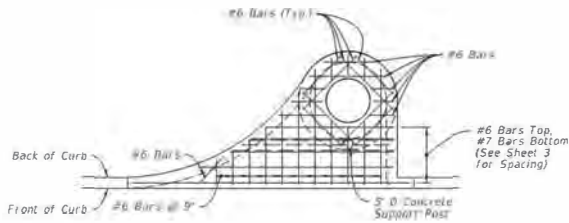


ELEVATION
 TYPE 2 AND 4

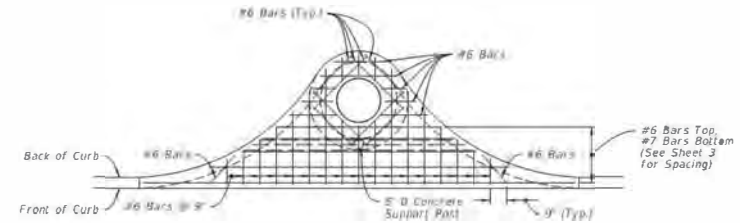
TABLE 1
 INLET
 DIMENSIONS

Inlet Type	R	T
1	10'-0"	10'-0"
2	10'-0"	10'-0"
3	6'-0"	6'-0"
4	6'-0"	6'-0"

TOP DIMENSIONAL DETAILS



PLAN
 TYPE 1 AND 3



PLAN
 TYPE 2 AND 4

NOTE:
 For transverse section reinforcement, see Sheet 3.

TOP REINFORCING DETAILS

TOP DIMENSIONAL AND TOP REINFORCING DETAILS

LAST REVISION 11/01/20	DESCRIPTION:	FDOT	FY 2021-22 STANDARD PLANS	MIAMI-DADE COUNTY	INDEX 425-020	SHEET 2 of 3
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REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

DESIGNED BY	NAME	DATE	DRAWN BY	NAME	DATE

DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS
 HIGHWAY DIVISION
 MIAMI-DADE COUNTY

CURB AND GUTTER

P:\Engineering\Highway\2021\Old Cutler Road - Roundabout\Drawings\Plan & Profile\Drawings\Standard\Specifications\Fig. 14, 2022 - 1429a - 02192021

GENERAL NOTES:

1. Cross Slopes and Grades:

- A. Sidewalk, ramp, and landing slopes (i.e. 0.02, 0.05, and 1:12) shown in this Index are maximums. With approval of the Engineer, provide the minimum feasible slope where the requirements cannot be met.
- B. Landings must have cross-slopes less than or equal to 0.02 in any direction.
- C. Maintain a single longitudinal slope along each side of the curb ramp. Ramp slopes are not required to exceed 15 feet in length.
- D. Joints permitted at the location of Slope Breaks. Otherwise locate joints in accordance with Index 522-001. No joints are permitted within the ramp portion of the Curb Ramp.

2. Curb, Curb and Gutter and/or Sidewalk:

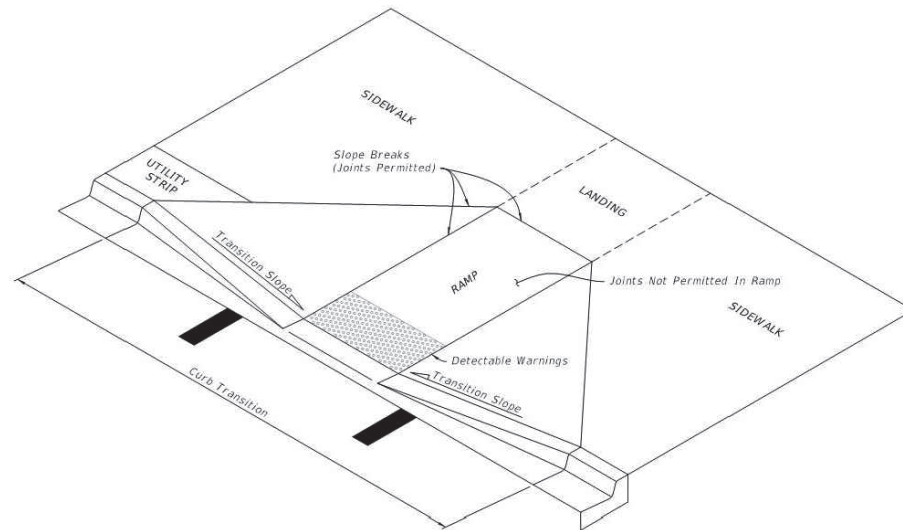
- A. Refer to Index 522-001 for concrete thickness and sidewalk details.
- B. Remove any existing curb, curb and gutter, or sidewalk to the nearest joint beyond the curb transition or to the extent that no remaining section is less than 5 feet long.

3. Curb Ramp Alpha-Identification:

- A. Sidewalk curb ramp alpha-identifications (e.g. CR-A) are provided for reference purposes in the Plans.
- B. Alpha-identifications CR-I and CR-J are intentionally omitted.

4. Detectable Warnings:

- A. Install detectable warnings in accordance with Specification 527.
- B. Place detectable warnings across the full width of the ramp or landing, to a minimum depth of 2 feet measured perpendicular to the curb line and no greater than 5 feet from the back of the curb or edge of pavement.
- C. If detectable warnings are shown in the Plans on slopes greater than 5%, align the truncated domes with the centerline of the ramp; otherwise, the truncated domes are not required to be aligned.



————— CURB RAMP NOMENCLATURE —————

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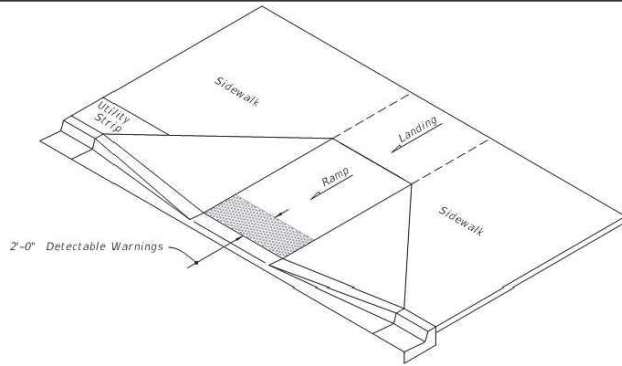
LAST REVISION 11/01/20	DESCRIPTION:	 FY 2021-22 STANDARD PLANS	DETECTABLE WARNINGS AND SIDEWALK CURB RAMPS	INDEX 522-002	SHEET 1 of 7
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R E V I S I O N S					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

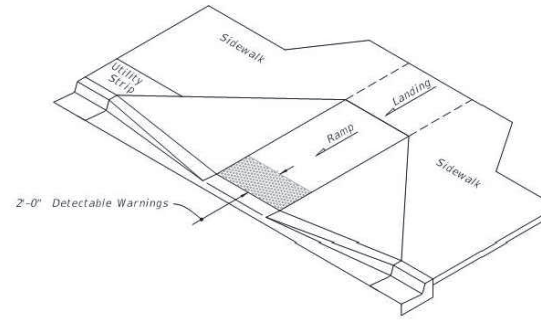
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CHECKED BY: L.A.O.	NAME: L.A.O.	DATE:	CHECKED BY: L.A.O.	NAME: L.A.O.	DATE:
SUPERVISED BY:					



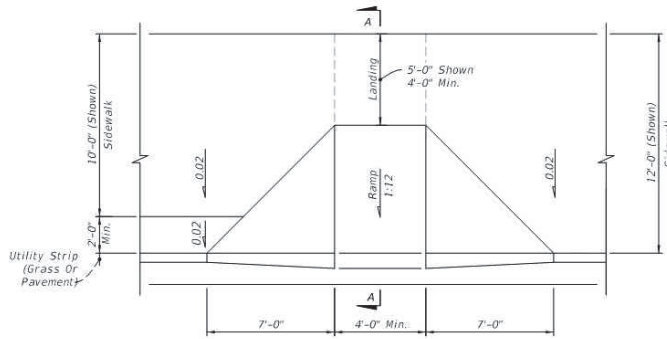
DETECTABLE WARNINGS AND SIDEWALK CURB RAMPS



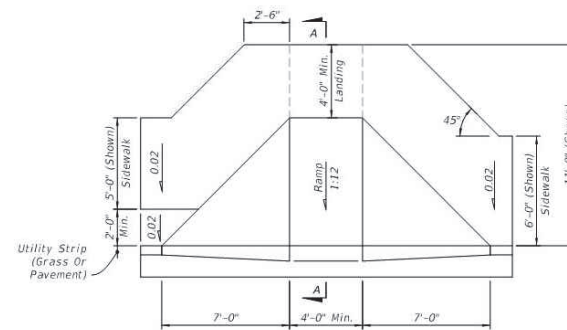
ISOMETRIC VIEW



ISOMETRIC VIEW



PLAN VIEW

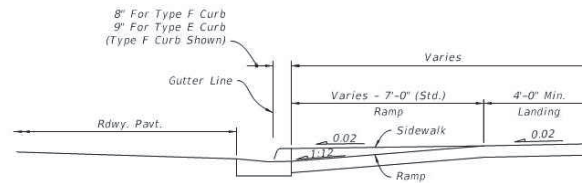


PLAN VIEW

NOTE: For Example of CR-A used in Radial Curb Returns, See Sheet 8.

CR-A

CR-B



SECTION A-A

SIDEWALK CURB RAMPS CR-A AND CR-B

LAST REVISION 11/01/20

REVISION	DESCRIPTION



FY 2021-22
 STANDARD PLANS

DETECTABLE WARNINGS AND SIDEWALK CURB RAMPS

INDEX 522-002

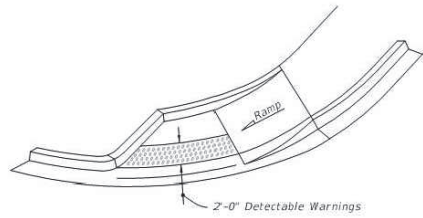
SHEET 2 of 7

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

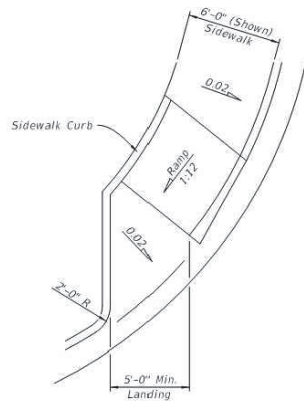
DESIGNED BY	NAME	DATE	DRAWN BY	NAME	DATE
	A.K.			J.M.	
CHECKED BY	L.A.O.		CHECKED BY	L.A.O.	
SUPERVISED BY:					



DETECTABLE WARNINGS AND
 SIDEWALK CURB RAMPS

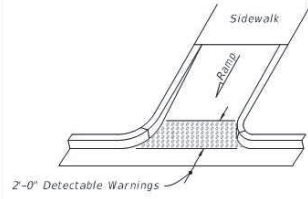


ISOMETRIC VIEW

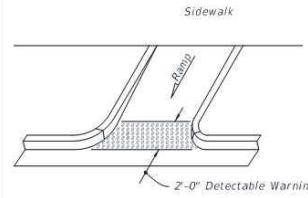


PLAN VIEW

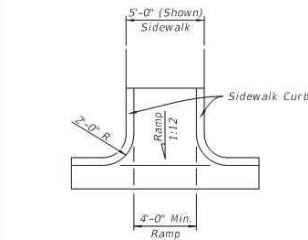
CR-D



OPTION A

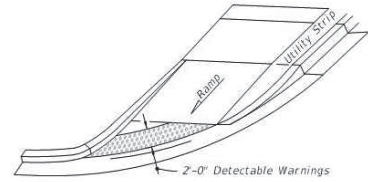


OPTION B

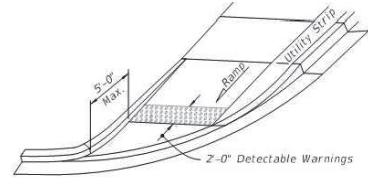


PLAN VIEW

CR-E

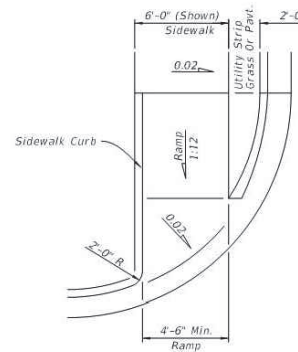


OPTION A



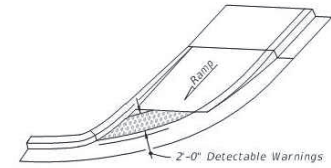
OPTION B

ISOMETRIC VIEW

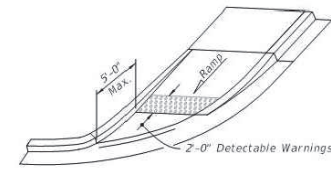


PLAN VIEW

CR-F

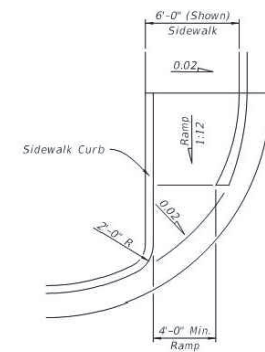


OPTION A



OPTION B

ISOMETRIC VIEW



PLAN VIEW

CR-G

SIDEWALK CURB RAMPS CR-D, CR-E, CR-F & CR-G

LAST REVISION
11/01/20

REVISION DESCRIPTION



FY 2021-22
STANDARD PLANS

DETECTABLE WARNINGS AND SIDEWALK CURB RAMPS

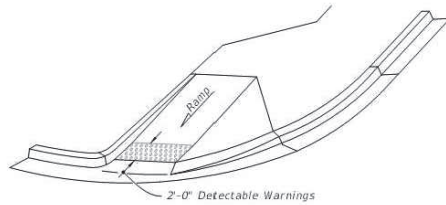
INDEX SHEET
522-002 4 of 7

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

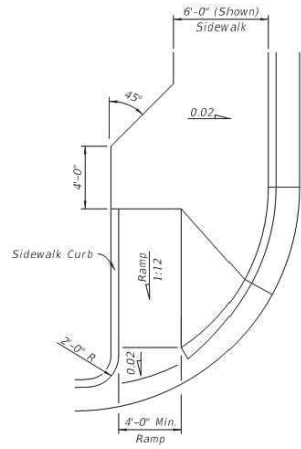
DESIGNED BY	NAME	DATE	DRAWN BY	NAME	DATE
	A.K.			J.M.	
	L.A.O.			L.A.O.	

MIAMI-DADE COUNTY DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS HIGHWAY DIVISION
 STEPHEN P. CLARK CENTER
 100 N.W. 25th St.
 MIAMI, FLORIDA 33128

DETECTABLE WARNINGS AND SIDEWALK CURB RAMPS

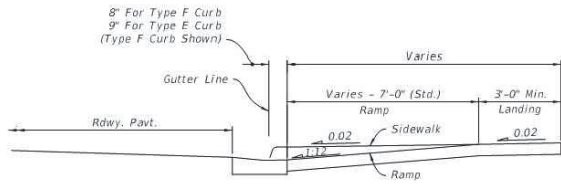


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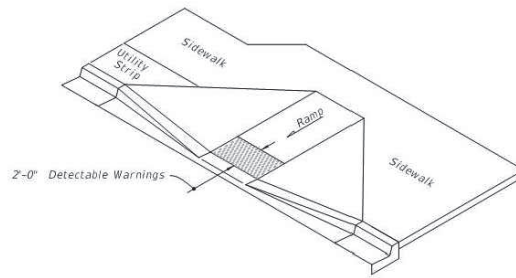


PLAN VIEW

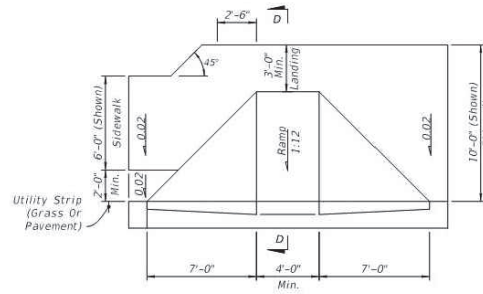
CR-H



SECTION D-D

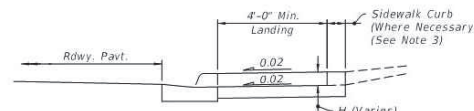


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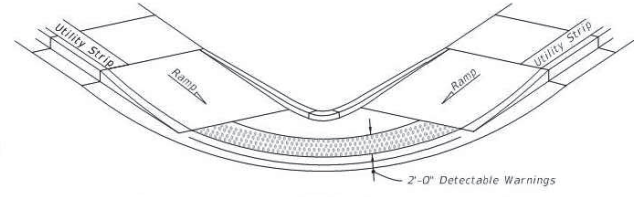


PLAN VIEW

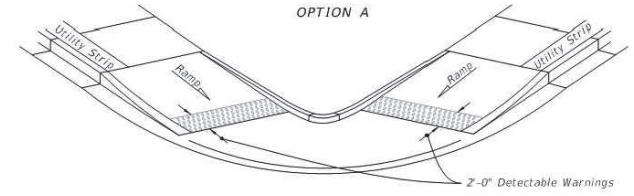
CR-K



SECTION E-E

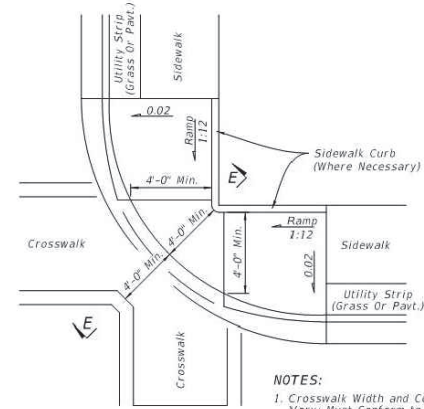


OPTION A



OPTION B

ISOMETRIC VIEW



PLAN VIEW

CR-L

- NOTES:
1. Crosswalk Width and Configuration Vary; Must Conform to Index 711-001.
 2. 15' Radius Curve Shown for CR-L.
 3. For additional information on sidewalk curb construction, see SIDEWALK CURB OPTIONS details, on Sheet 3.

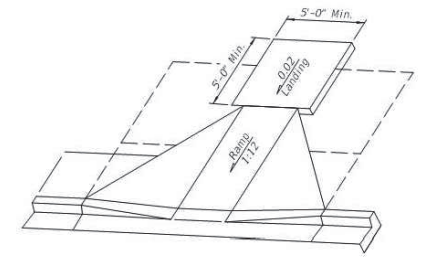
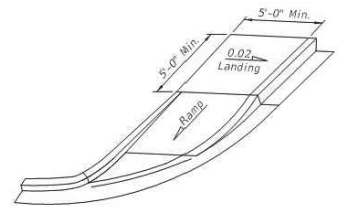
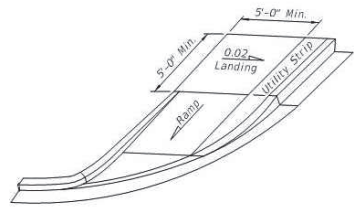
SIDEWALK CURB RAMPS CR-H, CR-K & CR-L

LAST REVISION 11/01/20	DESCRIPTION:	FDOT	FY 2021-22 STANDARD PLANS	DETECTABLE WARNINGS AND SIDEWALK CURB RAMPS	INDEX 522-002	SHEET 5 of 7
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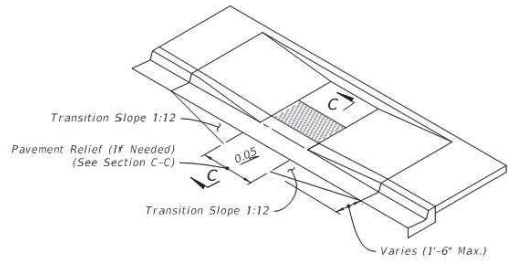
REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

DESIGNED BY A.K.	DATE	DRAWN BY J.M.	DATE		DETECTABLE WARNINGS AND SIDEWALK CURB RAMPS
CHECKED BY L.A.O.		CHECKED BY L.A.O.			
SUPERVISED BY					

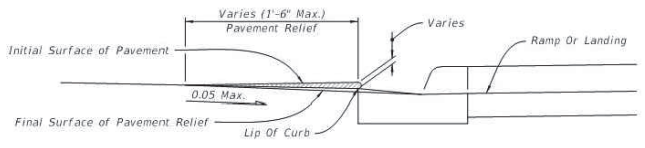
P:\Miami\Highway\Old Cutler Road - Roundabouts\Plan (CAD & PDF files)\CAD\10-25D-25D-25D-25D-25D.dwg Feb 14, 2022 - 1:42pm 12/15/2023



LANDINGS FOR CURB RAMP WITHOUT SIDEWALKS
 (See CR-F, CR-G & CR-K Respectively For Detectable Warning Details/Options)

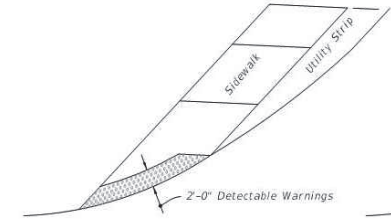


ISOMETRIC VIEW
 (CR-C Shown, Other Similar)

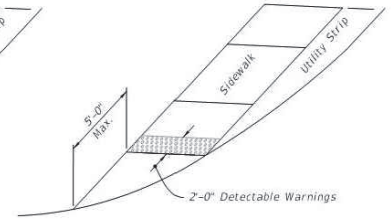


NOTE: Remove Elevated Pavement By Spading And Rolling, Smooth Milling, or Grinding.

SECTION C-C
 PAVEMENT RELIEF DETAILS



OPTION A



OPTION B

DETECTABLE WARNING ON FLUSH SHOULDER SIDEWALKS

CURB RAMP WITHOUT SIDEWALKS AND FLUSH SHOULDER SIDEWALKS

LAST REVISION	DESCRIPTION:
11/01/20	

FDOT
 FY 2021-22
 STANDARD PLANS

DETECTABLE WARNINGS AND SIDEWALK CURB RAMP

INDEX SHEET
 522-002 6 of 7

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

DESIGNED BY	NAME	DATE	DRAWN BY	NAME	DATE
	A.K.			J.M.	
CHECKED BY	L.A.O.		CHECKED BY	L.A.O.	
SUPERVISED BY:					



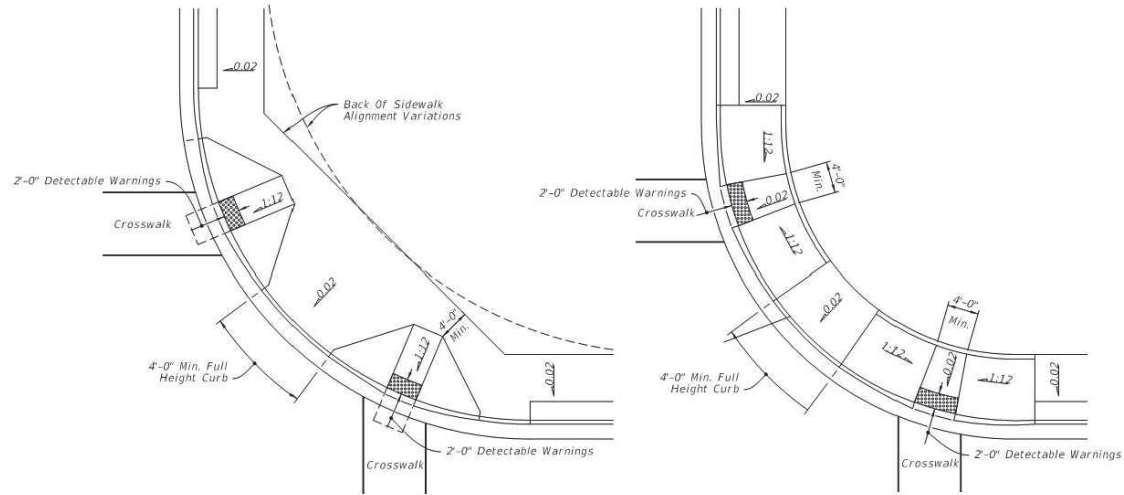
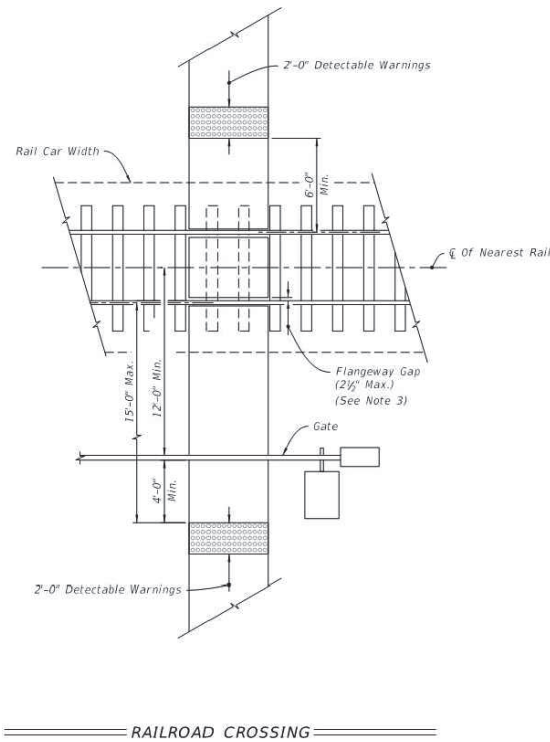
DETECTABLE WARNINGS AND SIDEWALK CURB RAMP

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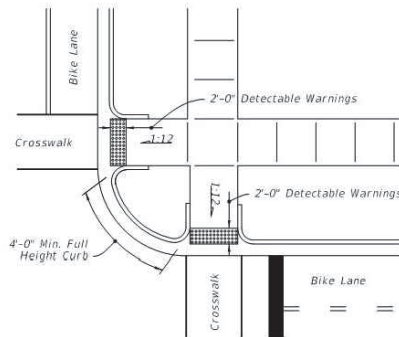
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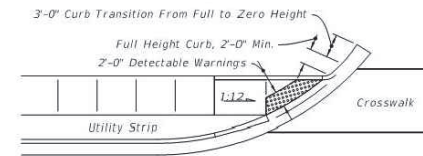
- Where crosswalk markings are used, ramps must fall within the crosswalk limits. A clear space of 48" minimum is required at the bottom of the ramp within a marked crosswalk. If crosswalk markings are not present, a clear space of 48" minimum is required at the bottom of the ramp outside of active travel lanes.
- Crosswalk widths and configurations vary; must conform to Index 711-001.
- Flangeway Gap may be up to 3" for Freight-only Railways.



CURB RAMPS WITHIN RADIAL RETURN



CURB RAMPS OUTSIDE RADIAL RETURN



LINEAR SIDEWALK RAMPS

RAILROAD CROSSING AND CURB RAMPS AT CURBED RETURNS (TYP.)

LAST REVISION 11/01/20	DESCRIPTION:	FDOT	FY 2021-22 STANDARD PLANS	DETECTABLE WARNINGS AND SIDEWALK CURB RAMPS	INDEX 522-002	SHEET 7 of 7
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REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

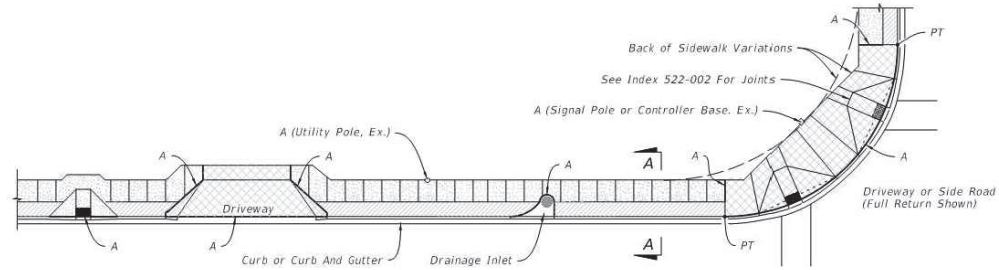
DESIGNED BY A.K.	NAME	DATE	DRAWN BY J.M.	NAME	DATE
CHECKED BY L.A.O.			CHECKED BY L.A.O.		
SUPERVISED BY:					

MIAMI-DADE COUNTY
 DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS
 HIGHWAY DIVISION
 STEPHEN P. CLARK CENTER
 100 N.W. 25th St.
 MIAMI, FLORIDA 33128

DETECTABLE WARNINGS AND SIDEWALK CURB RAMPS

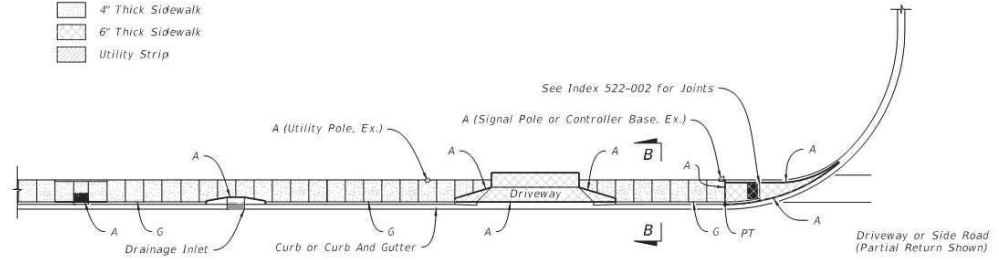
GENERAL NOTES:

- Construct sidewalks in accordance with Specification 522. Use 6" concrete for Sidewalks and Curb Ramps Located within Curb Returns (See Plan View). Install all other concrete with thickness as shown, unless otherwise detailed in the Plans.
- Include detectable warnings on sidewalk curb ramps in accordance with Index 522-002.
- For Driveways see Index 522-003.
- Bond breaker material can be any impermeable coated or sheet membrane or preformed material having a thickness of not less than 6 mils and not more than 1/8".
- Construct sidewalks with Edge Beam through the limits of any surface mounted Pedestrian/Bicycle Railing or Pipe Guiderail shown in the plans. (See RAILING DETAIL).

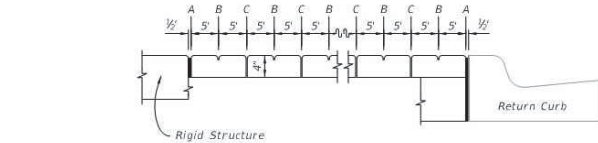


PLAN
SIDEWALK WITH UTILITY STRIP

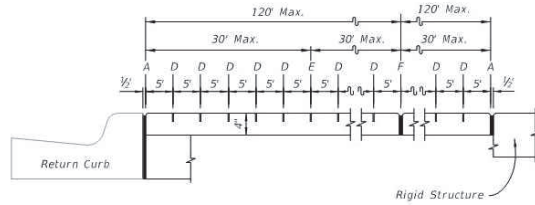
- LEGEND:**
- 4" Thick Sidewalk
 - 6" Thick Sidewalk
 - Utility Strip



PLAN
SIDEWALK WITHOUT UTILITY STRIP



OPEN JOINTS

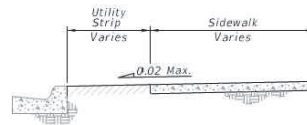


SAWED JOINTS

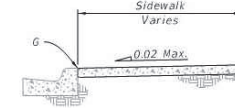
LONGITUDINAL SECTION

LEGEND:

- A- 1/2" Expansion Joints (Preformed Joint Filler) between the sidewalk and; driveways, sidewalk-intersections, and all other fixed objects (e.g. drainage inlets and utility poles).
- B- 1/8" Dummy Joints, Tooled
- C- 1/2" Formed Open Joints
- D- 3/16" Saw Cut Joints, 1 1/2" Deep (within 96 hours) Max. 5' Centers
- E- 3/16" Saw Cut Joints, 1 1/2" Deep (within 12 hours) Max. 30' Centers Joint(s) Required When Length Exceeds 30'
- F- 1/2" Expansion Joint When Run Of Sidewalk Exceeds 120'. Intermediate locations when called for in the plans or at locations as directed by the Engineer.
- G- Cold Joint With Bond Breaker, Tooled

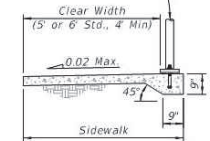


SECTION A-A



SECTION B-B

Railing (See Index 515-052, 515-062, 515-070 or 515-080)



Varies Based on Railing Used

RAILING DETAIL

GENERAL NOTES AND CONCRETE SIDEWALK ON CURBED ROADWAYS

LAST REVISION 11/01/18	DESCRIPTION:	FDOT	FY 2021-22 STANDARD PLANS	CONCRETE SIDEWALK	INDEX 522-001	SHEET 1 of 2
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REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

DESIGNED BY A.K.	DATE	DRAWN BY J.M.	DATE
CHECKED BY L.A.O.		CHECKED BY L.A.O.	
SUPERVISED BY:			





MIAMI-DADE COUNTY
 DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS
 HIGHWAY DIVISION
 STEPHEN P. CLARK CENTER
 100 N.W. 67
 MIAMI, FLORIDA 33138

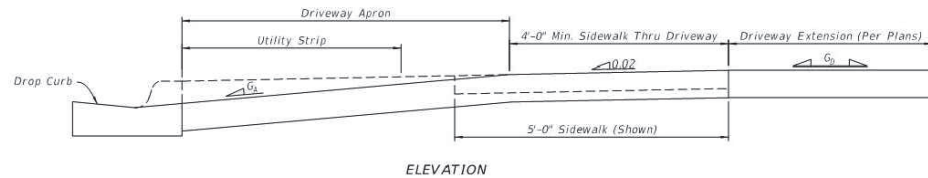
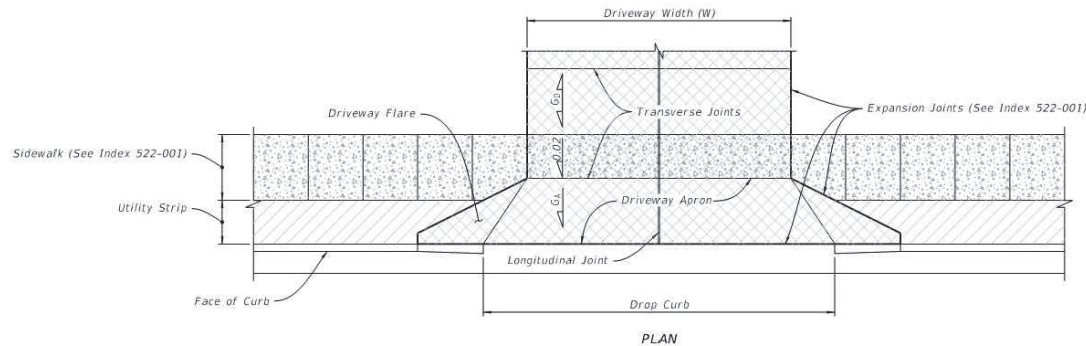
CONCRETE SIDEWALK

GENERAL NOTES:

1. Work this Index with Specification 522.
2. Refer to Index 520-001 for drop curb details and Index 522-001 for joints between driveway, sidewalks, and curb.
3. Existing Curb and Gutter:
Remove existing curb and gutter to either the nearest joint beyond the flared point or to where no remaining section is less than 5 feet long.
4. Grades and cross slopes shown are maximums.
5. Longitudinal Joints:
Construct $\frac{1}{8}$ " open joints placed at equal (20' max.) intervals for driveways over 20' wide. Match joints in curb and gutter to match joints in driveways.
6. Transverse Joints:
Construct $\frac{1}{8}$ " open joints @ 10' Centers and $\frac{1}{2}$ " expansion joints with preformed joint filler every 5th joint.
7. Construct driveways (6" thick concrete) to a uniform width (W) to the R/W line or the extent shown in the Plans.
8. Width of Sidewalk Thru Driveway is 4'-0" minimum. Match sidewalk width when shown in Plans or when utility strip width is equal to or greater than the depth of the Driveway Apron.
9. Alpha-Numeric Identification:
Concrete Flared Driveway Alpha-Numeric Identifications (e.g. G4) are provided for reference purposes in the Plans.

LEGEND:

-  Sidewalk
-  Flared Driveway (6" Thick Concrete)
-  Sidewalk Thru Driveway (6" Thick Concrete)
-  Utility Strip
- G_A Grade of Apron
- G_D Grade of Driveway (Per Plans)



CONCRETE FLARED DRIVEWAY NOMENCLATURE

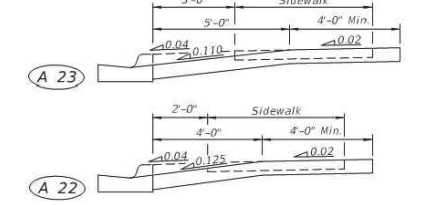
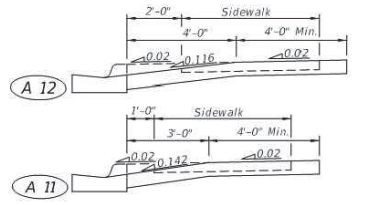
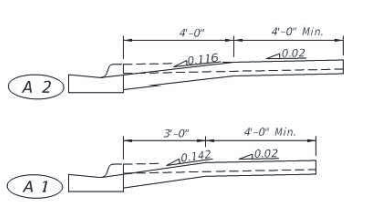
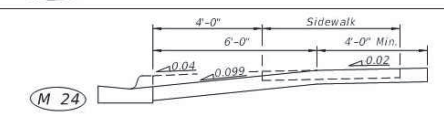
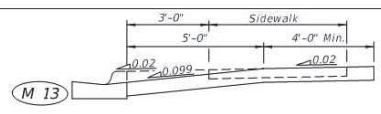
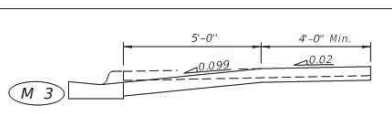
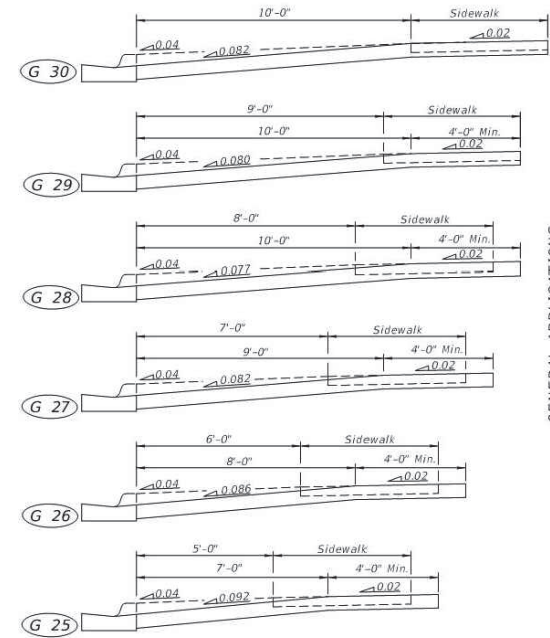
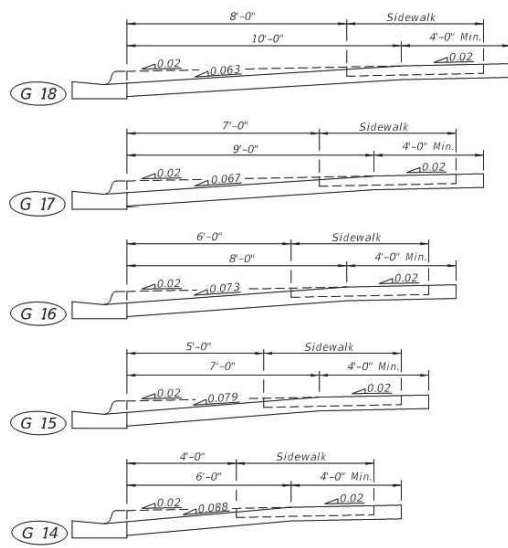
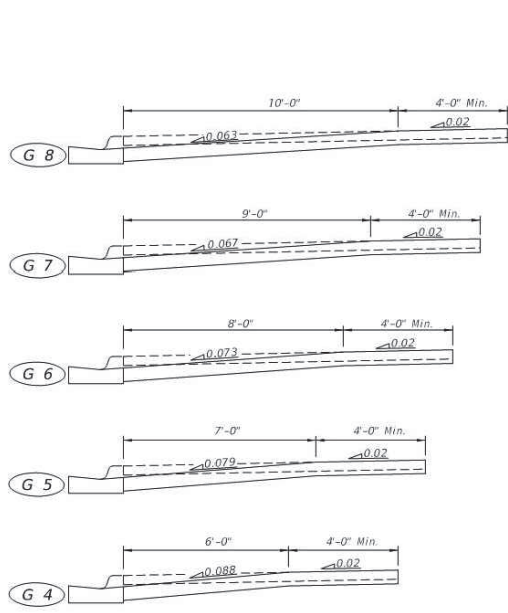
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REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

DESIGNED BY:	NAME:	DATE:	DRAWN BY:	NAME:	DATE:
CHECKED BY:	A.K.		CHECKED BY:	J.M.	
SUPERVISED BY:	L.A.O.			L.A.O.	


**DEPARTMENT OF TRANSPORTATION
AND PUBLIC WORKS
HIGHWAY DIVISION**
STEPHEN P. CLARK, CENTER
100 N.W. 11th
MIAMI, FLORIDA 33138

CONCRETE FLARED DRIVEWAYS



GENERAL APPLICATIONS
 MARGINAL
 ADVERSE

————— SIDEWALK WITHOUT UTILITY STRIP —————
 ————— SIDEWALK WITH UTILITY STRIP ON 0.02 SLOPE —————
 ————— SIDEWALK WITH UTILITY STRIP ON 0.04 SLOPE —————

NOTE:
 5' sidewalks shown.

DRIVEWAY SECTIONS ON CURBED FACILITIES WITH SIDEWALKS

LAST REVISION 11/01/18	DESCRIPTION:		FY 2021-22 STANDARD PLANS	INDEX	SHEET
			CONCRETE FLARED DRIVEWAYS	522-003	3 of 4

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

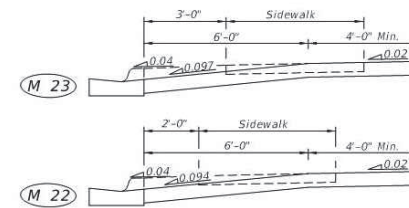
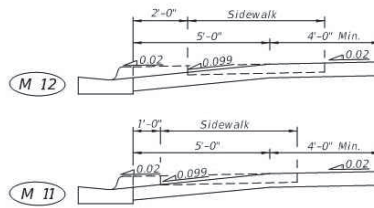
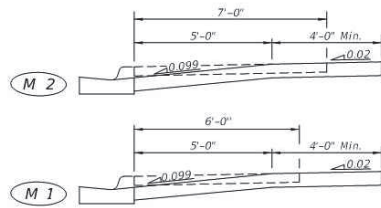
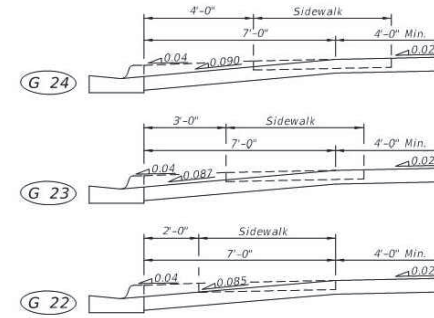
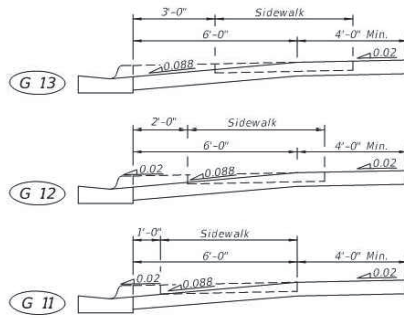
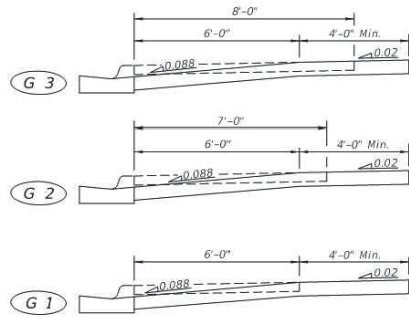
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CHECKED BY	L.A.O.		CHECKED BY	L.A.O.	
SUPERVISED BY:					



CONCRETE FLARED DRIVEWAYS

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18/12/2025 7:59:08 AM



==== SIDEWALK WITHOUT UTILITY STRIP =====

==== SIDEWALK WITH UTILITY STRIP ON 0.02 SLOPE =====

==== SIDEWALK WITH UTILITY STRIP ON 0.04 SLOPE =====

NOTE:
5' sidewalks shown.

DRIVEWAY SECTIONS ON CURBED FACILITIES WITH SIDEWALKS

CONCRETE FLARED DRIVEWAYS

INDEX SHEET
522-003 4 of 4

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LAST REVISION 11/01/18	DESCRIPTION:
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FDOT FY 2021-22
STANDARD PLANS

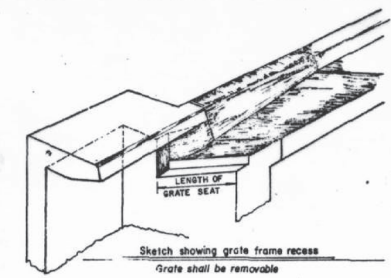
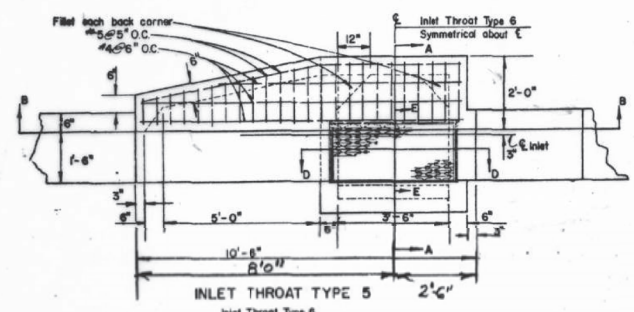
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DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

DESIGNED BY: A.M.	NAME	DATE	DRAWN BY: J.M.	NAME	DATE
CHECKED BY: L.A.O.			CHECKED BY: L.A.O.		
SUPERVISED BY:					

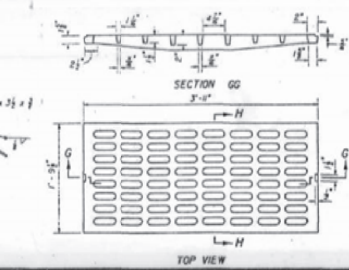
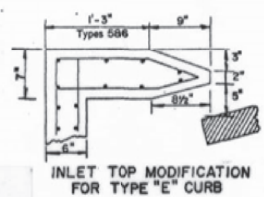
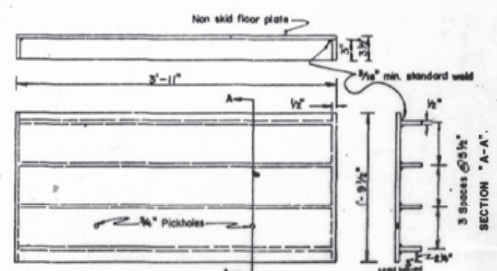
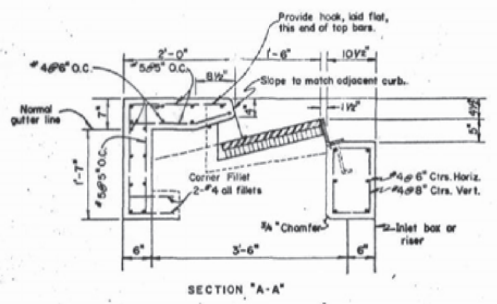
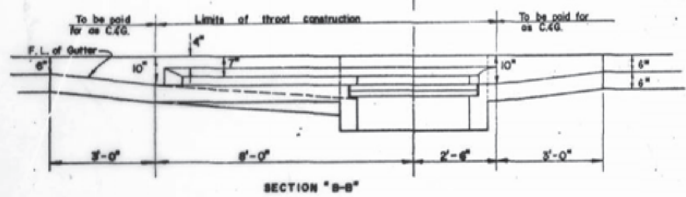
MIAMI-DADE COUNTY
 DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS
 HIGHWAY DIVISION
 STEPHEN P. CLARK CENTER
 1000 N.W. 25th St.
 MIAMI, FLORIDA 33128

CONCRETE FLARED DRIVEWAYS

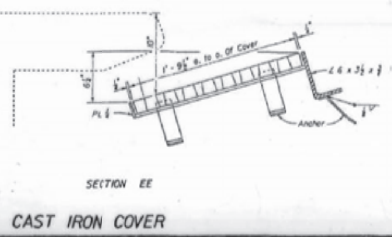
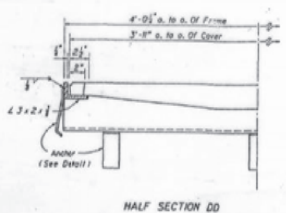
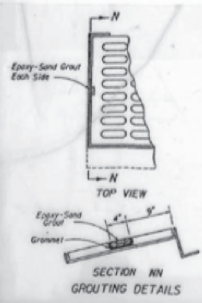
GENERAL APPLICATIONS
 MARGINAL



- GENERAL NOTES:**
1. The finished grade and slope of the inlet tops are to conform with the finished cross slope and grade of the proposed sidewalk and/or parkway.
 2. When inlets are to be constructed on a curve, refer to the plans to determine the radius and, where necessary, modify the inlet details accordingly. Bend steel when necessary.
 3. All steel in throats shall have 1/4" minimum cover unless otherwise shown. Inlet throats shall be either cast-in-place or precast concrete.
 4. The corner fillets shown for rectangular throats (Type 5B6) are necessary only when throats are to be used in conjunction with circular inlet boxes or when used on skew with rectangular inlet boxes.
 5. See Index DS8-D for means of locking grate or cover to inlet.
 6. These inlet throats were designed for use with std. curb & gutter and Type E curb. Locate outside of pedestrian cross traffic if possible.



Alternate "G" - Solid, galvanized steel cover for Type 546 inlets. Cover to be hot dip galvanized after fabrication. To be used where specified on the plans.



17

FDWA Approved: 5-1-75

DADE COUNTY PUBLIC WORKS DEPARTMENT
 HIGHWAY DIVISION

DESIGN: DCI-02
 DRAWN: CURB INLET
 CHECK: TYPES "5" & "6"
 PROPOSED

APPROVED

DATE	DESCRIPTION
8-74	Revised - Check Index 02

PLEASE RETAIN THIS SHEET FOR STANDARD REVISION SHEET YOUR PERMANENT FILES.

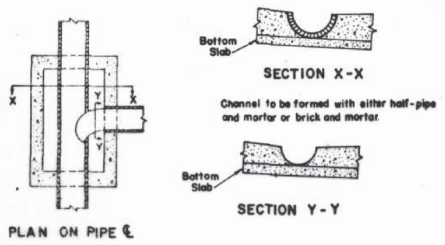
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REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

DESIGNED BY	NAME	DATE	DRAWN BY	NAME	DATE
	A.M.			J.M.	
	L.A.O.			L.A.O.	

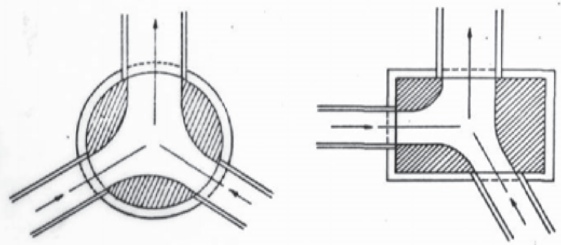
DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS
 HIGHWAY DIVISION
 MIAMI-DADE COUNTY

CURB INLET TYPES "5" & "6"



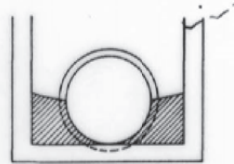
DETAIL OF BOTTOM CONSTRUCTION WHEN INLET SERVES AS MANHOLE

GENERAL NOTE:
Mortar used to seal the pipe into the walls of precast units will be of such a mix that shrinkage will not cause leakage into or out of the units. Maximum opening for pipe shall be the O.D. of the pipe required plus 6".

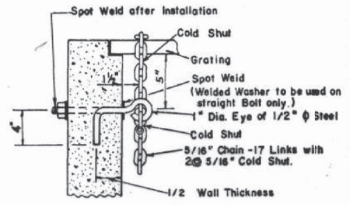


DETAIL OF CHANNELIZATION

Note: Channelization required at all drainage structures with two or more pipes.

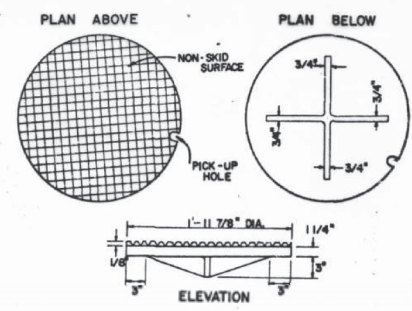


Smooth flow channels composed of concrete, or brick and mortar shall be constructed in the bottoms of all structures to a depth equal to half the diameter of the largest pipe.

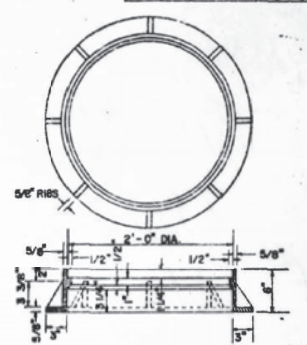


DETAIL OF EYE BOLT AND CHAIN FOR LOCKING GRATES TO INLETS

Note: One required per inlet grate.

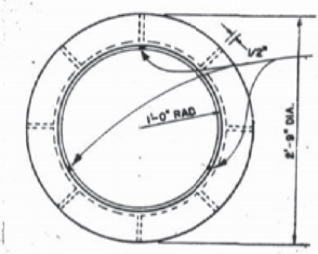


COVER FOR ALL FRAMES (WHEEL LOADS H-20)



TYPE I FRAME FOR MANHOLES AS SHOWN ON INDEX DSB-01

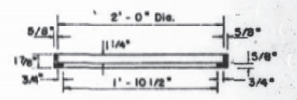
PROVIDE 3- 1/4 TACK WELDS ON MANHOLE TOPS IN SIDEWALK



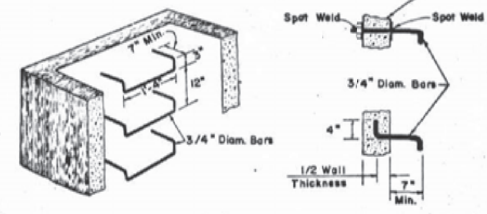
TYPE II FRAME For Type 1, 2, 3 & 4 inlets CAST IRON

FRAME AND COVER DETAILS

Note: Tack Weld all Covers to Frames (3 places) as directed by the Engineer.

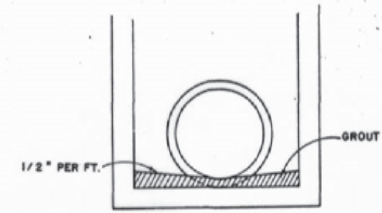


TYPE III FRAME For Type 7 & 8 inlets



DETAIL OF LADDER BARS

Use for box heights over 10'-0"



ALTERNATE LOCATION OF PIPE IN STRUCTURE WHEN PREFABRICATED FLOOR SLAB IS USED

COMPLETE FLOW CHANNEL IS REQUIRED WHEN THERE IS FLOW THROUGH THE STRUCTURE

27

FINMA Approved: 5-1-76

DADE COUNTY PUBLIC WORKS DEPARTMENT
HIGHWAY DIVISION

DESIGN	DSD-01
DRAWN	
CHECK	SUPPLEMENTARY DET. FOR MANHOLE & INLET STRUCT.
PROPOSED	
SUBMITTED	RECOMMENDED
DATE	DATE

DATE: 1983 SHEET 19 OF 2

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

DESIGNED BY	NAME	DATE	DRAWN BY	NAME	DATE
	A.K.		J.M.		
	L.A.O.		L.A.O.		

DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS
HIGHWAY DIVISION
CORNER S. CLAY CENTER
100 S.W. 27
MIAMI, FLORIDA 33135

SUPPLEMENTARY DET. FOR MANHOLE & INLET STRUCT.

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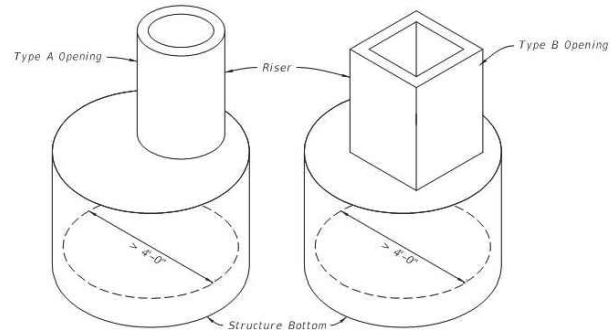
GENERAL NOTES:

1. Work this Index with Specification 425 and Index 425-001.
2. Type P standard structure bottoms are 4'-0" diameter and smaller (Alt. A) and 3'-6" square (Alt. B). Larger standard structure bottoms are designated Type J. Risers are permitted for all structures.
3. Walls of circular structures (Alt. A) constructed in place may be of brick or reinforced concrete. Construct precast and rectangular structures (Alt. B) with reinforced concrete only.
4. Wall thickness and reinforcement are for either reinforced cast-in-place or precast concrete units except that precast circular units may be furnished with walls in accordance with ASTM C478 (See Table 1).
5. Top and bottom slab thickness and reinforcement are for precast and cast-in-place construction. Use Class II concrete, except when Class IV concrete is shown in the Plans.
6. Alt. A or Alt. B structure bottoms may be used in conjunction with curb inlet tops Types 1, 2, 3, 4, 5, 6, 9, and 10, and any manhole or junction box. Alt. B structure bottoms may be used in conjunction with curb inlet Types 7 & 8, or any ditch bottom inlet.
7. Rectangular structures may be rotated as directed by the Engineer in order to facilitate connections between the structure walls and pipes.
8. Use straight embedment reinforcement in top and bottom slabs, except when ACI hooks are specifically required.
9. Construct corner fillets as shown for rectangular structures used with circular risers and inlet throats, and when used on skew with rectangular risers, inlets, and inlet throats. Construct fillets in the top slab of the Alt. A structure bottoms when used with the Type B risers. Reinforce each fillet with two #5 bars.
10. Units larger than specified standards may be substituted at the contractor's option when these units will not cause or increase the severity of utility conflicts. Furnish such larger units at no additional cost to the Department. Larger Alt. A units cannot replace Alt. B units without approval of the Engineer. This Note applies to this Index only.

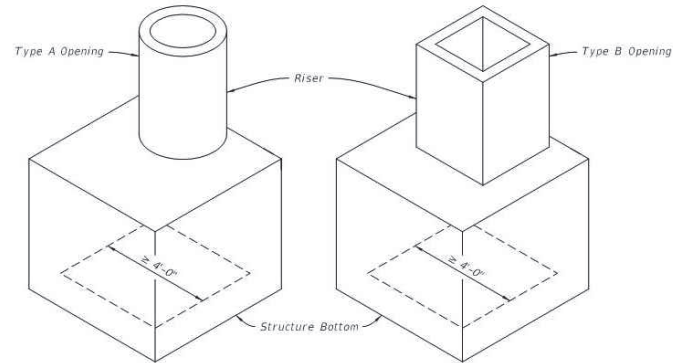
REINFORCEMENT NOTES:

1. Locate wall reinforcement in rectangular structures as shown in the WALL REINFORCEMENT SPLICE DETAILS in Index 425-001.
2. Provide a minimum 2" clear cover for all reinforcement unless otherwise noted and except for 36" diameter ASTM C478 units.
3. Additional bars used to restrain hole formers for precast structures with grouted pipe connections may be left flush with the hole surface.
4. Cut or bend reinforcement at pipe openings to maintain cover.
5. Remove exposed ends of reinforcing at precast pipe openings and grouted joints to 1" below the concrete surface and seal with a Type F Epoxy meeting the requirements of Specification 926.
6. Equivalent area smooth or deformed welded wire reinforcement may be substituted in accordance with Index 425-001.

TABLE OF CONTENTS:	
Sheet	Description
1	General Notes and Contents
2	Dimensional and Reinforcing Details
3	Tables 1, 2, 3, and 4
4	Tables 5 and 6

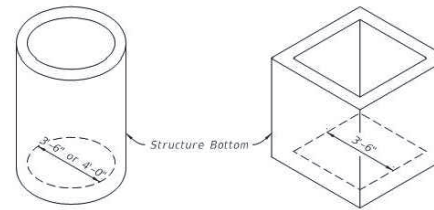


ALTERNATE A

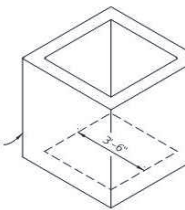


ALTERNATE B

TYPE J



ALTERNATE A



ALTERNATE B

TYPE P

LAST REVISION
11/01/20

DESCRIPTION:

FDOT FY 2021-22
STANDARD PLANS

STRUCTURE BOTTOMS TYPE J AND P

INDEX
425-010

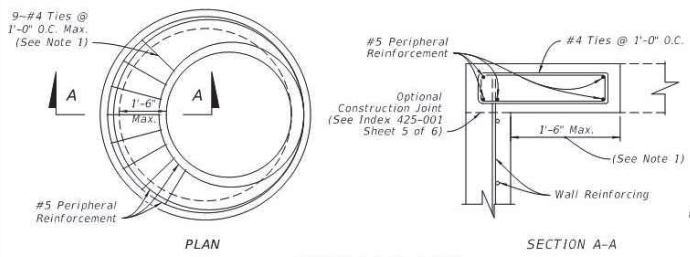
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REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

DESIGNED BY	NAME	DATE	DRAWN BY	NAME	DATE
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CHECKED BY	L.O.		CHECKED BY	L.O.	
SUPERVISED BY:					

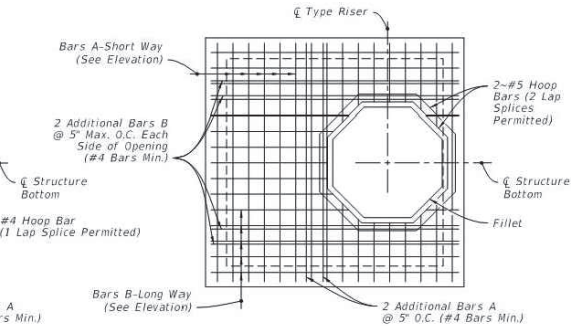
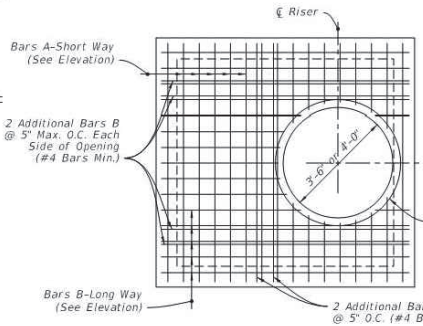
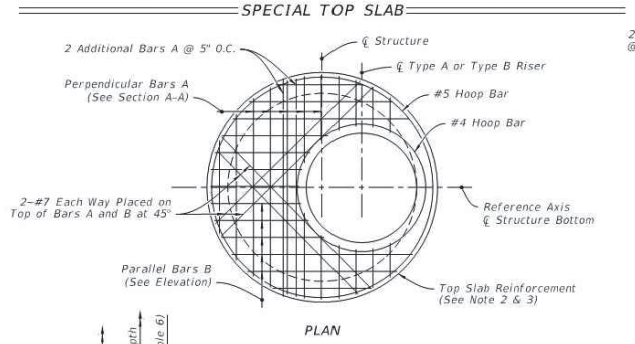
MIAMI-DADE COUNTY
DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS
HIGHWAY DIVISION
STEPHEN P. CLARK CENTER
100 W. OF MIAMI, FLORIDA 33138

STRUCTURE BOTTOMS TYPE J AND P



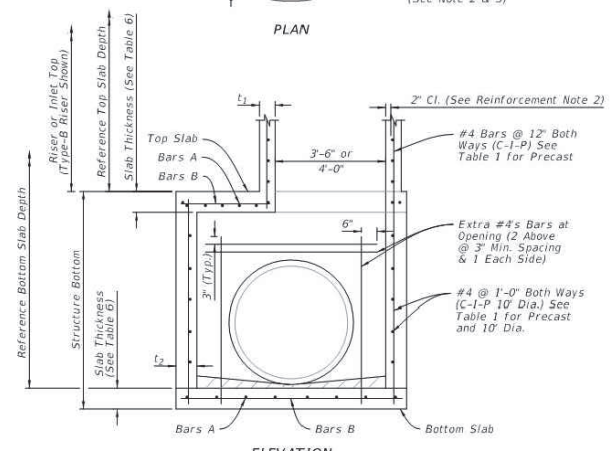
ALTERNATE A NOTES:

1. Rotate #4 Bars as required to maintain cover.
2. Construct the top or riser of the structure according to the top slab to the "Special Top Slab" details, when the inside diameter of a round structure is not more than 1'-6" larger than the opening in the riser or top slab.
3. Alternate A slab reinforcing not applicable for Type A, B, C, D & E Ditch Bottom Inlets or Type S & V Gutter Inlets. See Indexes 425-040, 425-041, 425-050, 425-051, and 425-052.

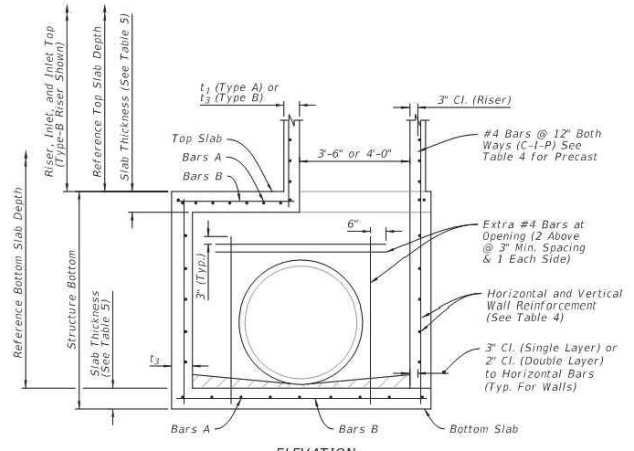


TYPE A - ROUND RISER OPENING
PLAN

TYPE B - SQUARE RISER OPENING
PLAN



TYPE J BOTTOM - ALTERNATE A



TYPE J BOTTOM - ALTERNATE B

DIMENSIONAL AND REINFORCING DETAILS

LAST REVISION	11/01/20
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REVISION	DESCRIPTION
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FDOT FY 2021-22
STANDARD PLANS

STRUCTURE BOTTOMS TYPE J AND P

INDEX	425-010
SHEET	2 of 4

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

DESIGNED BY	A.M.	DATE		DRAWN BY	J.M.	DATE	
CHECKED BY	L.A.D.			CHECKED BY	L.A.D.		
SUPERVISED BY:							

MIAMI-DADE COUNTY
DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS
HIGHWAY DIVISION
STEPHEN P. CLARK, CENTER
MIAMI, FLORIDA 33138

STRUCTURE BOTTOMS TYPE J AND P

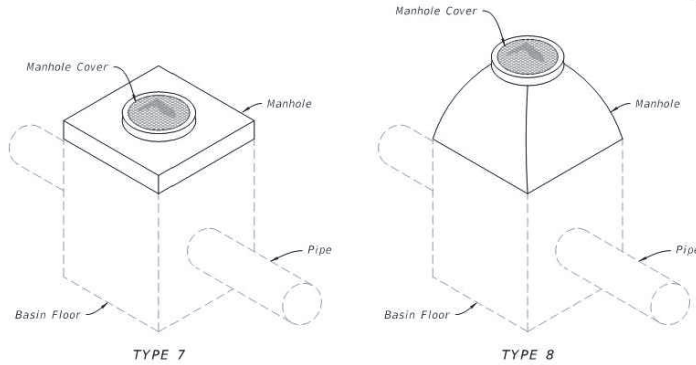
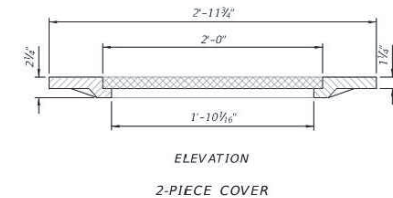
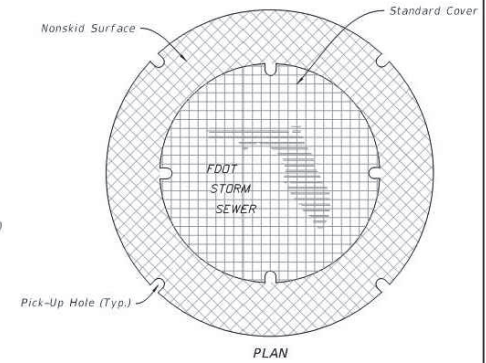
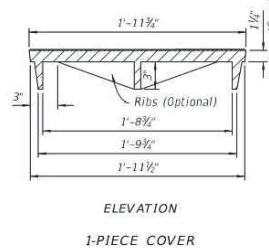
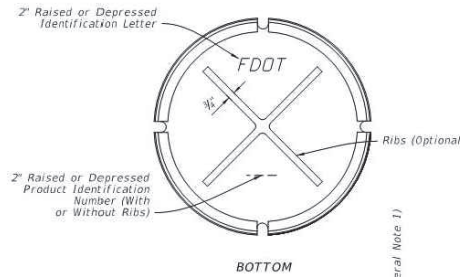
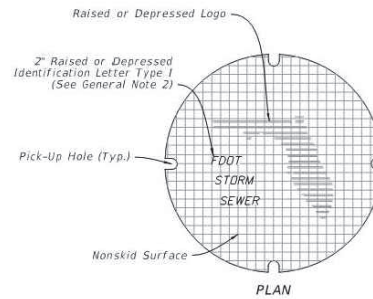
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GENERAL NOTES:

1. Use a 1-piece cover, unless the 2-piece cover is called for in the Plans, except at inlets and manholes with sump bottoms. Use the 2-piece cover when the sump depth exceeds 2', unless otherwise noted.
2. Include "Adjustable" on the cover for Type 1 manhole adjustable frames.
3. For square or rectangular precast drainage structures, use either deformed or smooth WWR meeting the requirements of Specification 931. WWR must be continuous around the box and lapped in accordance with Option 1 or 3 as shown in the Wall Reinforcing Splice Details.
4. Lap splice horizontal steel in the walls of rectangular structures in accordance with Option 1, 2 or 3 as shown in the Wall Reinforcing Splice Details.
5. Welding of splices and laps is permitted. Use AASHTO M259 requirements and restrictions on welds.
6. Rebar straight end embedment of peripheral reinforcement may be used in lieu of ACI standard hooks for top and bottom slabs, except when hooks are specifically called for in the Plans.
7. Precast opening for pipe must be the pipe OD plus 6" ($\pm 2"$ tolerance). Use mortar to seal the pipe into the opening of such a mix that shrinkage will not cause leakage into or out of the structure. Dry-pack mortar may be used to seal openings less than $2\frac{1}{2}"$ wide.

TABLE OF CONTENTS:

Sheet	Description
1	General Notes, Contents, Manhole Top Overview, and Manhole Covers
2	Manhole Frames and Manhole Tops
3	Inlet Locking Grates, Subgrade and Base Temporary Drains, and Pipe to Structure Filter Fabric Wrap
4	Drainage Structure Invert, Sump Bottom, Wall Reinforcing Splice Details, and Typical Slab to Wall Details
5	Precast Option and Equivalent Reinforcement substitution
6	Construction Joints and Minimum Box Riser Segment Dimensions
7	Skewed Pipe in Rectangular Structures
8	Miscellaneous Pipe Connection Details



MANHOLE TOPS

MANHOLE COVERS

LAST REVISION
11/01/20

DESCRIPTION:



FY 2021-22
STANDARD PLANS

**SUPPLEMENTARY DETAILS
FOR DRAINAGE STRUCTURES**

INDEX
425-001

SHEET
1 of 8

REVISIONS			
DATE	BY	DESCRIPTION	DATE

DESIGNED BY	NAME	DATE	DRAWN BY	NAME	DATE
	A.K.			J.M.	
	L.A.O.			L.A.O.	

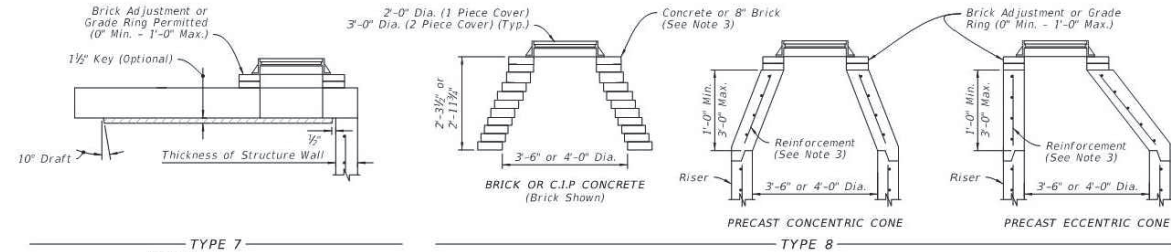
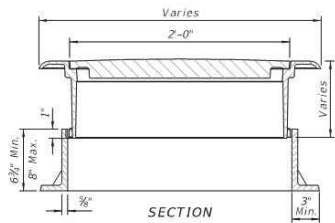
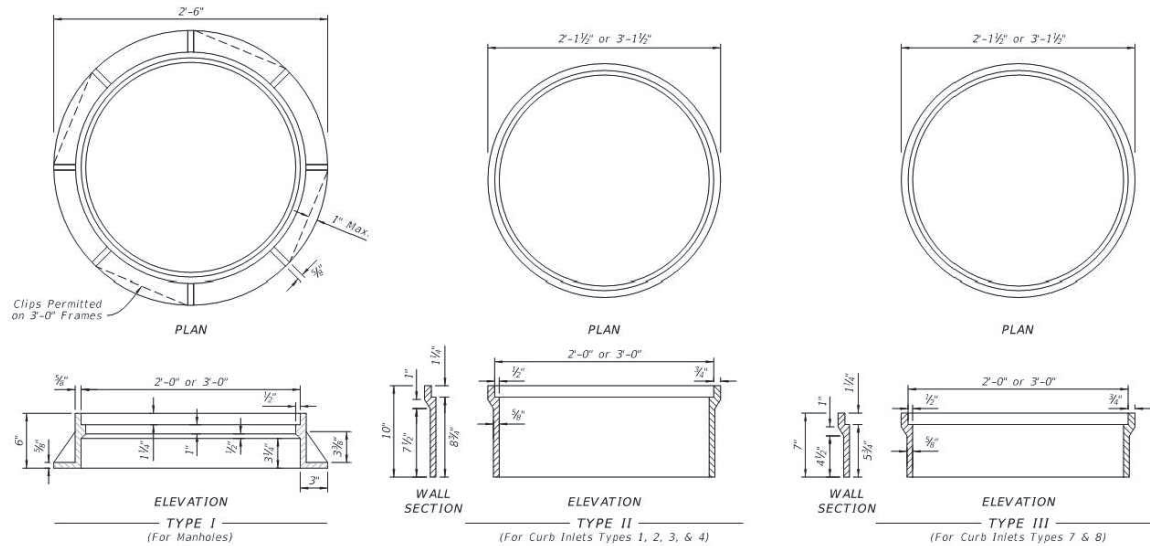


**SUPPLEMENTARY DETAILS
FOR DRAINAGE STRUCTURES**

**TABLE 1
WEIGHT OF CASTINGS (lb)**

Frame Type	2'-0" OPENING		3'-0" OPENING			
	Frame	Cover (Std.)	Frame	2-Piece Cover		
			Inside	Outside	Total	
I	155	190	220	190	220	410
II	145	190	255	190	220	410
III	90	190	180	190	220	410

NOTE:
Frame Type I in Table 1, includes Adjustable frames.



NOTES:

- Use Class II concrete for Manhole top Type 7 slabs.
- Manhole top Type 7 slabs may be of cast-in-place or precast construction. The optional key is for precast tops and in lieu of dowels. Omit frame and slab openings when top is used over a junction box.
- Manhole top Type 8 may be of cast-in-place, precast concrete construction, or brick construction. For concrete construction, use the same concrete and steel reinforcement as the supporting wall unit. An eccentric cone may be used.
- Use construction joint options, as shown on Sheet 6 to secure manhole tops to structures.
- Frames may be adjusted to a maximum 12" height with brick or precast ASTM C478 grade rings.
- Manhole top Type 8 may be substituted for a Type 7, if the minimum dimensions are not reduced.
- Manhole top Type 7 may be substituted for Type 8, if the minimum thickness (h) above pipe opening cannot be maintained with Type 8.

LAST REVISION	DESCRIPTION:
11/01/20	

FDOT FY 2021-22 STANDARD PLANS

SUPPLEMENTARY DETAILS FOR DRAINAGE STRUCTURES

INDEX SHEET
425-001 2 of 8

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

DESIGNED BY	NAME	DATE	DRAWN BY	NAME	DATE
	A.K.			J.M.	
CHECKED BY	L.A.O.		CHECKED BY	L.A.O.	
SUPERVISED BY:					

MIAMI-DADE COUNTY
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HIGHWAY DIVISION
CORNER S. CLAY CENTER
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SUPPLEMENTARY DETAILS FOR DRAINAGE STRUCTURES

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