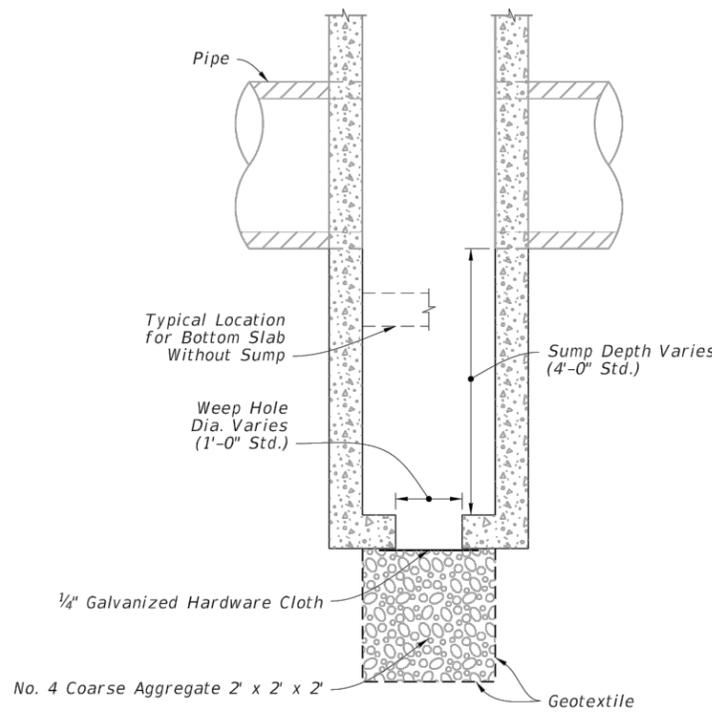


NOTE: For all structures unless excluded by special detail.

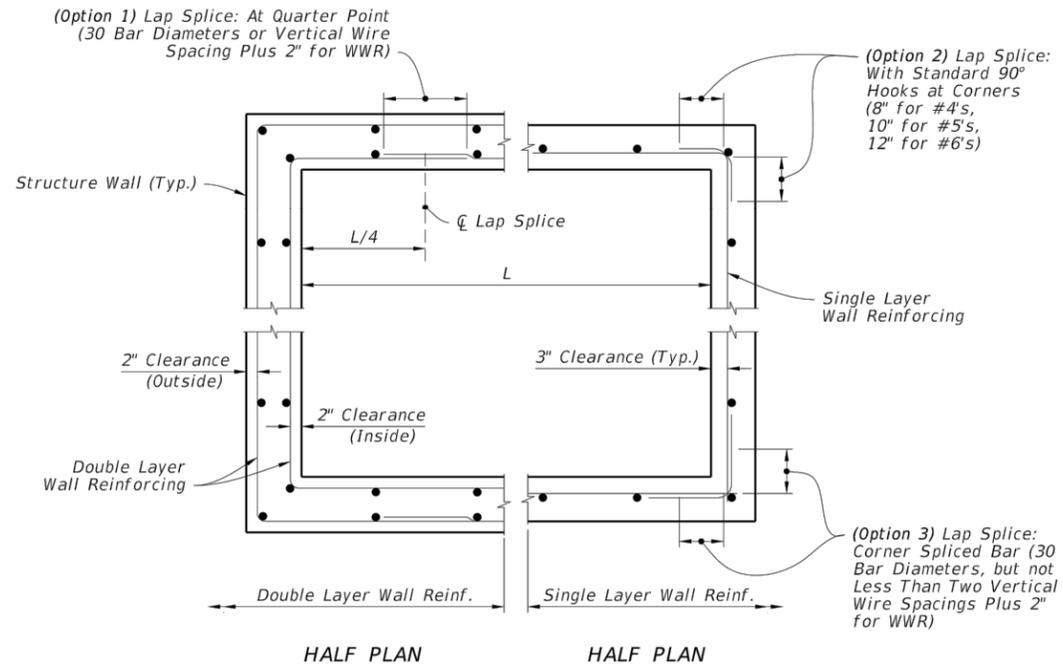
DRAINAGE STRUCTURE INVERT



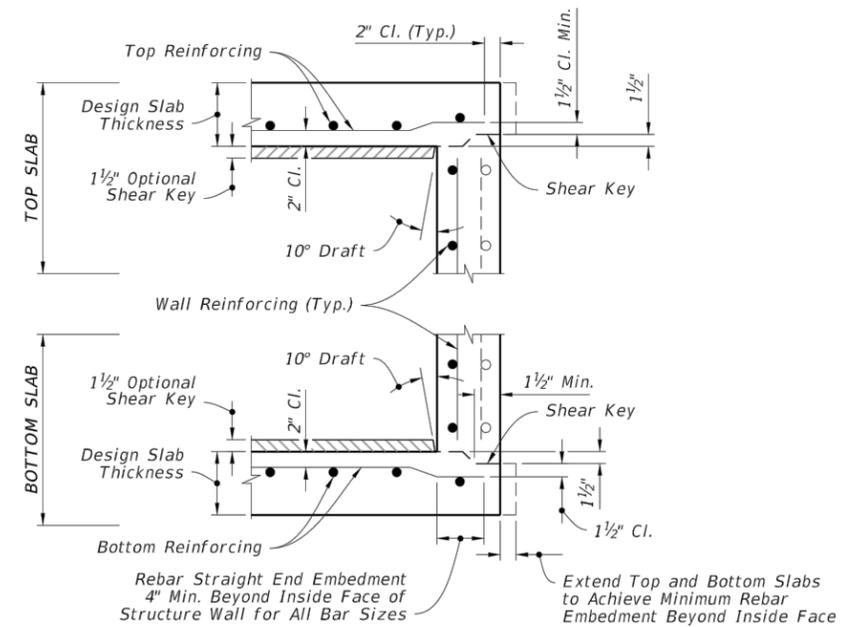
NOTES:

1. Construct sumps in inlets and manholes connecting to French Drains unless excluded in the Plans.
2. Construct sumps only where called for in the Plans at all other locations.
3. Construct weep holes in sump bottom only where called for in the Plans.
4. Install Type D-3 geotextile in accordance with Specification 514.

SUMP BOTTOM



WALL REINFORCING SPLICE DETAILS



NOTES:

1. See Sheet 6 for optional construction joints.
2. Bend bars as required to maintain cover.

TYPICAL SLAB TO WALL DETAILS (PRECAST STRUCTURE SHOWN)

DRAINAGE STRUCTURE INVERT, SUMP BOTTOM, WALL REINFORCING SPLICE DETAILS, AND TYPICAL SLAB TO WALL DETAILS

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LAST REVISION 11/01/23	DESCRIPTION:		FY 2025-26 STANDARD PLANS	SUPPLEMENTARY DETAILS FOR DRAINAGE STRUCTURES	INDEX 425-001	SHEET 4 of 8
REVISION						

REVISED	NO.	BY	DATE	DESCRIPTION	DESIGN	INITIALS	DATE	PREPARED FOR:			George F. Young, Inc. 525 OLYMPIA AVENUE, SUITE 5 PUNTA GORDA, FLORIDA 33950 PHONE (352) 378-1444 WWW.GEORGEFYOUNG.COM ENGINEERING CERTIFICATE OF AUTHORIZATION NUMBER 21 CML, TRANSPORTATION, SUBSURFACE & STRUCTURAL ENGINEERING ECOLOGY GIS PLANNING SURVEYING ST. PETERSBURG • LAKEWOOD RANCH • TAMPA • GAINESVILLE • LAKE WALES • PUNTA GORDA	No. DATE	Arcadia Stormwater and Flood Control Special Details INCLUDES PORTIONS OF: SECTIONS 25, 26, 31, 36, TOWNSHIP 37S., RANGE 24, 25E.	JOB NO. 21Y01018LC
														SHEET NO. SD21

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EXAMPLE TABLE OF EQUIVALENT STEEL AREA								
SCHEDULE	GRADE 60 REINFORCING BAR		EQUIVALENT GRADE 40 REINFORCING BAR		EQUIVALENT 65 KSI SMOOTH WELDED WIRE REINFORCEMENT		EQUIVALENT 70 KSI DEFORMED WELDED WIRE REINFORCEMENT	
	Bar Size & Spacing	Steel Area (in ² /ft)	Bar Size & Spacing	Steel Area (in ² /ft)	Style Designation	Steel Area (in ² /ft)	Style Designation	Steel Area (in ² /ft)
A	#3 @ 6½" Ctrs. #4 @ 12" Ctrs.	0.20	#3 @ 4½" Ctrs. #4 @ 8" Ctrs. #5 @ 12" Ctrs.	0.30	3"x3"-W4.6xW4.6 4"x4"-W6.2xW6.2 6"x6"-W9.2xW9.2	0.1846	3"x3"-D4.3xD4.3 4"x4"-D5.7xD5.7 6"x6"-D8.6xD8.6	0.1714
B	#3 @ 5½" Ctrs. #4 @ 10" Ctrs.	0.24	#3 @ 3½" Ctrs. #4 @ 6½" Ctrs. #5 @ 10" Ctrs.	0.36	3"x3"-W5.5xW5.5 4"x4"-W7.4xW7.4 6"x6"-W11.1xW11.1	0.2215	3"x3"-D5.1xD5.1 4"x4"-D6.9xD6.9 6"x6"-D10.3xD10.3	0.2057
Special 1	#3 @ 5" Ctrs.. #4 @ 9" Ctrs.	0.267	#3 @ 3" Ctrs. #4 @ 6" Ctrs. #5 @ 9" Ctrs.	0.40	3"x3"-W6.2xW6.2 4"x4"-W8.2xW8.2 6"x6"-W12.3xW12.3	0.2465	3"x3"-D5.7xD5.7 4"x4"-D7.6xD7.6 6"x6"-D11.4xD11.4	0.2289
C	#3 @ 3½" Ctrs. #4 @ 6½" Ctrs. #5 @ 10" Ctrs.	0.37	#4 @ 4" Ctrs. #5 @ 6½" Ctrs. #6 @ 9½" Ctrs.	0.555	3"x3"-W8.5xW8.5 4"x4"-W11.4xW11.4 6"x6"-W17.1xW17.1	0.3415	3"x3"-D7.9xD7.9 4"x4"-D10.6xD10.6 6"x6"-D15.9xD15.9	0.3171
D	#4 @ 4½" Ctrs. #5 @ 7" Ctrs. #6 @ 10" Ctrs.	0.53	#4 @ 3" Ctrs. #5 @ 4½" Ctrs. #6 @ 6½" Ctrs.	0.795	3"x3"-W12.2xW12.2 4"x4"-W16.3xW16.3 6"x6"-W24.5xW24.5	0.4892	3"x3"-D11.4xD11.4 4"x4"-D15.1xD15.1 6"x6"-D22.7xD22.7	0.4543
E	#4 @ 3" Ctrs. #5 @ 5" Ctrs. #6 @ 7" Ctrs.	0.73	#5 @ 3½" Ctrs. #6 @ 4½" Ctrs. #7 @ 6½" Ctrs.	1.095	3"x3"-W16.8xW16.8 4"x4"-W22.5xW22.5 6"x6"-W33.7xW33.7	0.6738	3"x3"-D15.6xD15.6 4"x4"-D20.9xD20.9 6"x6"-D31.3xD31.3	0.6257
F	#5 @ 3½" Ctrs. #6 @ 5" Ctrs. #7 @ 7" Ctrs.	1.06	#6 @ 3" Ctrs. #7 @ 4½" Ctrs. #8 @ 6" Ctrs.	1.59	3"x3"-W24.5xW24.5 4"x4"-W32.6xW32.6 6"x6"-W48.9xW48.9	0.9785	3"x3"-D22.7xD22.7 4"x4"-D30.3xD30.3 6"x6"-D45.4xD45.4	0.9086
Special 2	#5 @ 3" Ctrs. #6 @ 4" Ctrs. #7 @ 5½" Ctrs.	1.24	#7 @ 4" Ctrs. #8 @ 5" Ctrs.	1.86	3"x3"-W28.6xW28.6 4"x4"-W38.2xW38.2 6"x6"-W57.2xW57.2	1.1446	3"x3"-D26.6xD26.6 4"x4"-D35.4xD35.4 6"x6"-D53.1xD53.1	1.0629
G	#6 @ 3½" Ctrs. #7 @ 5" Ctrs.	1.46	#7 @ 3" Ctrs. #8 @ 4" Ctrs.	2.19	3"x3"-W33.7xW33.7 4"x4"-W44.9xW44.9	1.3477	3"x3"-D31.3xD31.3 4"x4"-D41.7xD41.7	1.2514

NOTES:

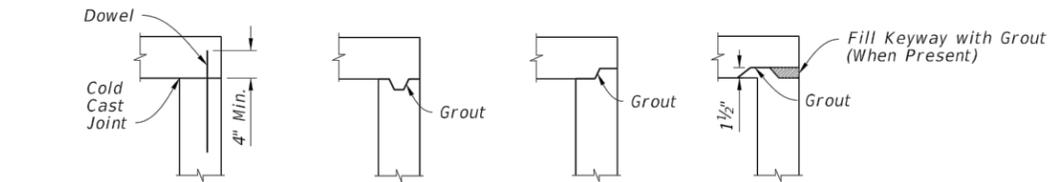
- See inlet indexes for optional precast inlet construction details up to depths of 15'.
 - Interior dimensions of an Alt. "B" Bottom may be adjusted to reflect these inlet interior dimensions when precast units are used in conjunction with Alt. "B" Structure Bottoms, Index 425-010.
 - Use concrete meeting the requirements of ASTM C478 or Class IV for precast structures with 6" wall or slab thickness.
 - Reinforcement may be deformed bar reinforcement or welded wire reinforcement. Bar reinforcement other than 60 ksi may be used, however only two grades are recognized: Grade 40 and Grade 60. Smooth welded wire reinforcement will be recognized as having a design strength of 65 ksi and deformed welded wire reinforcement will be recognized as having a design strength of 70 ksi. The area of reinforcement required may be adjusted in accordance with the Equivalent Steel Area Table provided. Use the following equations to determine the steel area and spacing for bars not otherwise specified:
 - Grade 40 Steel Area = $As_{40} = 60/40 \times As_{60}$
 - Smooth Welded Wire Reinforcement Steel Area = $As_{65} = 60/65 \times As_{60}$
 - Deformed Welded Wire Reinforcement Steel Area = $As_{70} = 60/70 \times As_{60}$
- When a reduced area of reinforcement is provided, any maximum bar spacing shown must also be reduced as determined by the following equations, unless otherwise shown:
- Max. Grade 40 Bar Spacing = Grade 60 Bar Spacing
- Max. Smooth Welded Wire Spacing = Grade 60 Bar Spacing x 0.86
- Max. Deformed Welded Wire Spacing = Grade 60 Bar Spacing x 0.74
- When an increased area of reinforcing is provided, the maximum bar spacing may be increased by the squared ration of increased steel area, but not to exceed 12":
- $$\text{Max. Bar Spacing Provided} \leq \text{Max. Bar Spacing Required} \times \left(\frac{\text{Steel Area Provided}}{\text{Min. Steel Area Required}} \right)^2$$
- Use wire no smaller than than W3.1 or D4.0, or larger and with spacing 8" or less. Use bar reinforcement displaying the minimum yield designation grade mark, or either the number 60 or one (1) grade mark line to be acceptable at the higher value. Use maximum bar spacing no greater than two (2) times the slab thickness with a maximum spacing of 12" or three (3) times the wall thickness, with a maximum spacing of 18" for vertical bars and 12" for horizontal bars. Wires smaller than W3.1 or D4.0 may be used in the walls of ASTM C 478 round structure bottoms and round risers.
- Fiber-reinforced concrete may be substituted for conventional steel reinforcement in accordance with the Structures Design Guidelines. Submit shop drawings corresponding to an approved fiber-reinforced concrete mix design for approval to the State Drainage Office.

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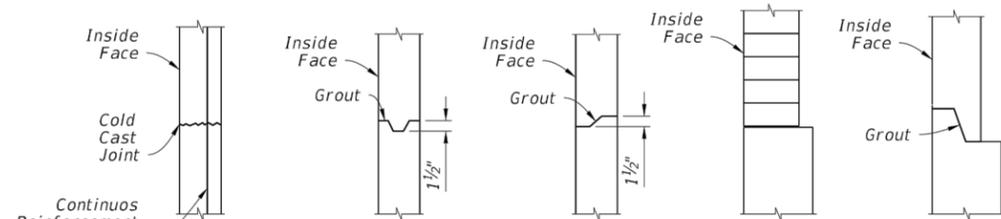
PRECAST OPTION AND EQUIVALENT REINFORCEMENT SUBSTITUTION

LAST REVISION 11/01/20		DESCRIPTION:	 FY 2025-26 STANDARD PLANS		SUPPLEMENTARY DETAILS FOR DRAINAGE STRUCTURES		INDEX 425-001	SHEET 5 of 8				
NO.	BY	DATE	DESCRIPTION	INITIALS	DATE	PREPARED FOR:	 City Of Arcadia P.O. Drawer 1000 Arcadia, Florida, 34265 (863) 494-4114		 George F. Young, Inc. 525 OLYMPIA AVENUE, SUITE 5 PUNTA GORDA, FLORIDA 33950 PHONE (352) 378-1444 WWW.GEORGEFYOUNG.COM ENGINEERING CERTIFICATE OF AUTHORIZATION NUMBER 21 CML, TRANSPORTATION, SUBSURFACE & STRUCTURAL ENGINEERING ECOLOGY GIS PLANNING SURVEYING ST. PETERSBURG • LAKEWOOD RANCH • TAMPA • GAINESVILLE • LAKE WALES • PUNTA GORDA	No. _____ DATE _____	Arcadia Stormwater and Flood Control Special Details INCLUDES PORTIONS OF: SECTIONS 25, 26, 31, 36, TOWNSHIP 37S., RANGE 24, 25E.	JOB NO. 21Y01018LC SHEET NO. SD22

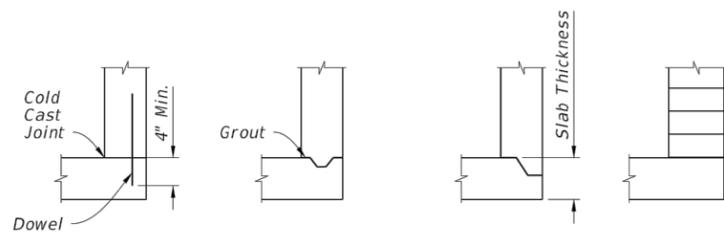
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TOP SLABS TO WALL JOINTS



WALL JOINTS

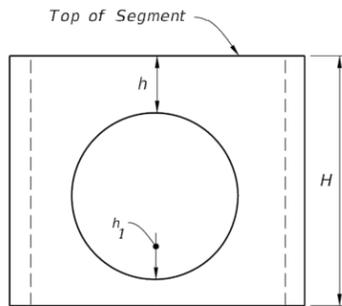


BOTTOM SLAB TO WALL JOINTS

NOTES:

- One or more types of joints may be used in a single structure, except brick wall structure. Brick wall construction is permitted on circular units only.
- All grouted joints are to have a maximum thickness of 1".
- Keyways are to be a minimum of 1 1/2" deep.
- Joint dowels are to be #4 bars, 12" long with a minimum of 6 bars per joint approximately evenly spaced for circular structures or at maximum 12" spacing for rectangular structures. Bars may be either Adhesive Bonded Dowels in accordance with Specification 416, or placed approximately 6" into fresh concrete leaving the remainder to extend into the secondary cast. Welded wire reinforcement may be substituted for the dowel bar in accordance with the equivalent steel area table on Sheet 5.
- Minimum cover on dowel reinforcing bars is 2" to outside face of structure.
- Seal joints between wall segments and between wall segments and top or bottom slabs with preformed plastic gasket material in accordance with Specification 430 or non-shrink grout in accordance with Specification 934.
- Insert products approved by the Engineer may be used in lieu of dowel embedment.

CONSTRUCTION JOINT OPTIONS



When $6" \leq h_1 < 0.75H$ (Min.)
 $h_1 \geq 0.75H$ (Min.)

Then (Reqd.)
 $h \geq 0.4H$
 $h \geq H$ (Min.)

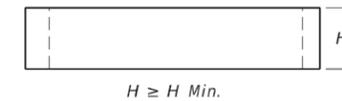
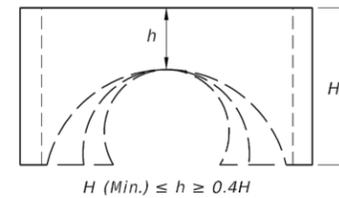


TABLE 3
Minimum Value for H

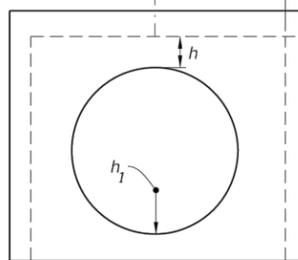
H (min.)	Box or Riser Diameter
1'-0"	3'-6" & 4'-0"
1'-6"	5'-0" & 6'-0"
2'-0"	>6'-0"

NOTES:

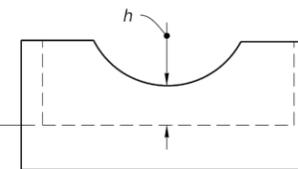
- Segments may be inverted. Opening for pipe is the pipe OD plus 6" ($\pm 2"$ tolerance).
- If h can not be attained, then a top or bottom slab must be attached to the segment as shown below.

RISER SEGMENTS OTHER THAN DOWEL

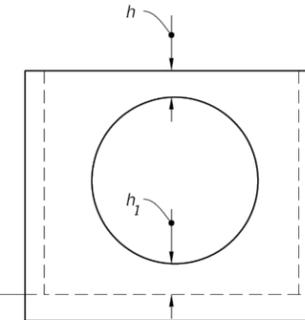
Riser or Inlet Opening (Location Varies)



$h \geq \text{zero}$ and $h_1 \geq 6"$



Top or Bottom Segment:
 $h \geq 2"$



$h_1 \geq 2"$ and $h \geq 6"$

NOTES:

- h may be less than 6" when approved by the Engineer, but not for inlet segments at finish grade elevation.
- Dowel construction joint or monolithic cast only.

SEGMENTS FOR SLAB TO WALL DOWEL CONSTRUCTION JOINTS OR MONOLITHIC CAST

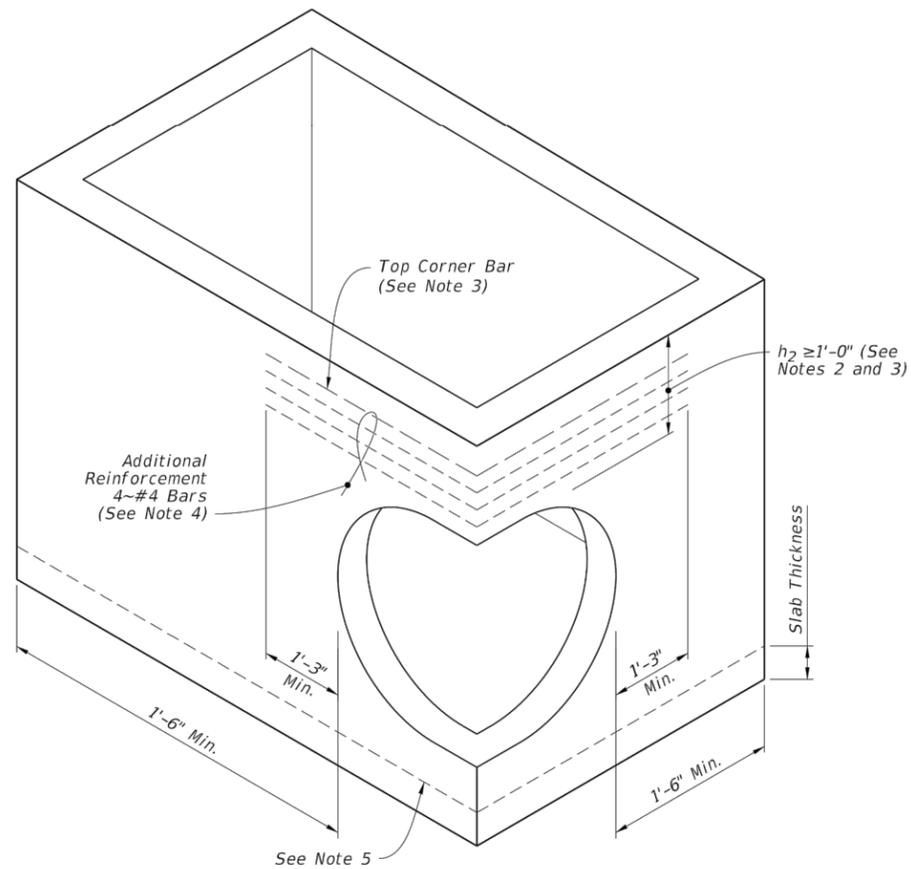
MINIMUM BOX AND RISER SEGMENT DIMENSIONS

CONSTRUCTION JOINT OPTIONS AND MINIMUM BOX AND RISER SEGMENT DIMENSIONS

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LAST REVISION 11/01/20	DESCRIPTION:	FY 2025-26 STANDARD PLANS	SUPPLEMENTARY DETAILS FOR DRAINAGE STRUCTURES	INDEX 425-001	SHEET 6 of 8
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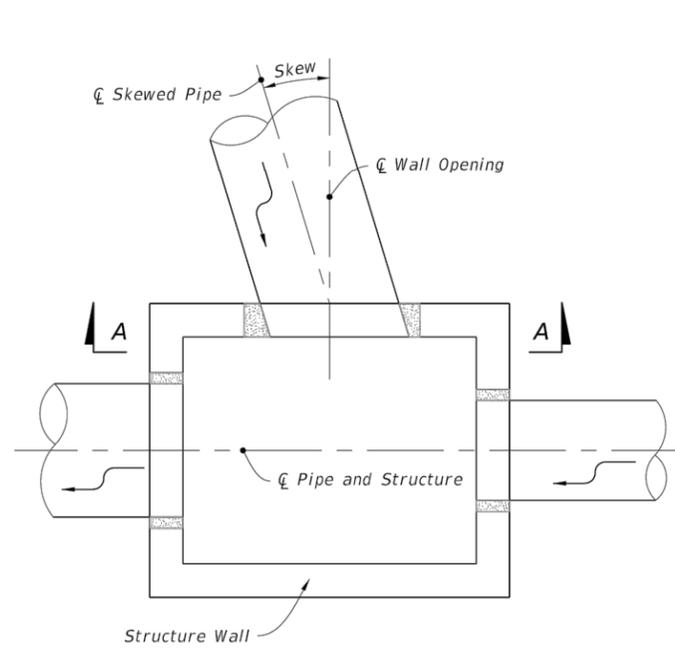
REVISED	NO.	BY	DATE	DESCRIPTION	DESIGN	INITIALS	DATE	PREPARED FOR:	 City Of Arcadia P.O. Drawer 1000 Arcadia, Florida, 34265 (863) 494-4114	 George F. Young, Inc. 525 OLYMPIA AVENUE, SUITE 5 PUNTA GORDA, FLORIDA 33950 PHONE (352) 378-1444 WWW.GEORGEFYOUNG.COM ENGINEERING CERTIFICATE OF AUTHORIZATION NUMBER 21 CML, TRANSPORTATION, SUBSURFACE & STRUCTURAL ENGINEERING ECOLOGICAL GIS PLANNING SURVEYING ST. PETERSBURG • LAKEWOOD RANCH • TAMPA • GAINESVILLE • LAKE WALES • PUNTA GORDA	No. DATE	Arcadia Stormwater and Flood Control Special Details INCLUDES PORTIONS OF: SECTIONS 25, 26, 31, 36, TOWNSHIP 37S., RANGE 24, 25E.	JOB NO. 21Y01018LC	SHEET NO. SD23
	DESIGN	JV		DRAWN	PCS		CHECKED	MP					QUALITY CHK	



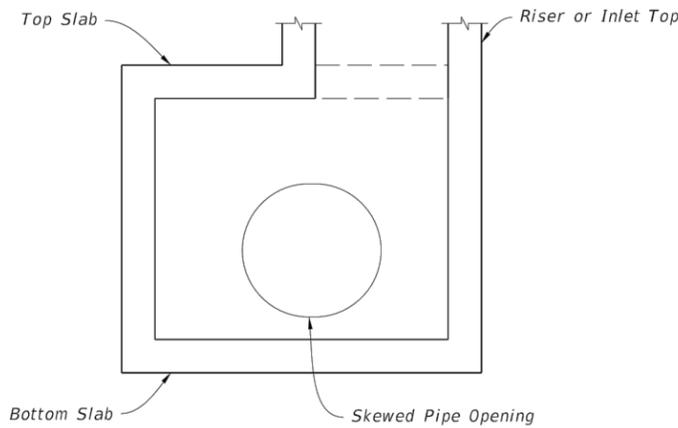
NOTES:

1. Submit Shop Drawings of corner openings for approval by the Engineer.
2. h_2 may be less than 1'-0" when a minimum 1'-0" deep segment, 8" slab or curb inlet is provided above the corner opening.
3. For inlet segments at finish grade elevation, substitute a #8 Bar for the top corner bar when 1'-0" $\leq h_2$ < 2'-0".
4. Install bars continuously around corner and evenly spaced. Tie additional reinforcement to the outside of vertical wall reinforcement.
5. Dowel construction joint or monolithically cast wall and slabs.

PIPE OPENING AT CORNER

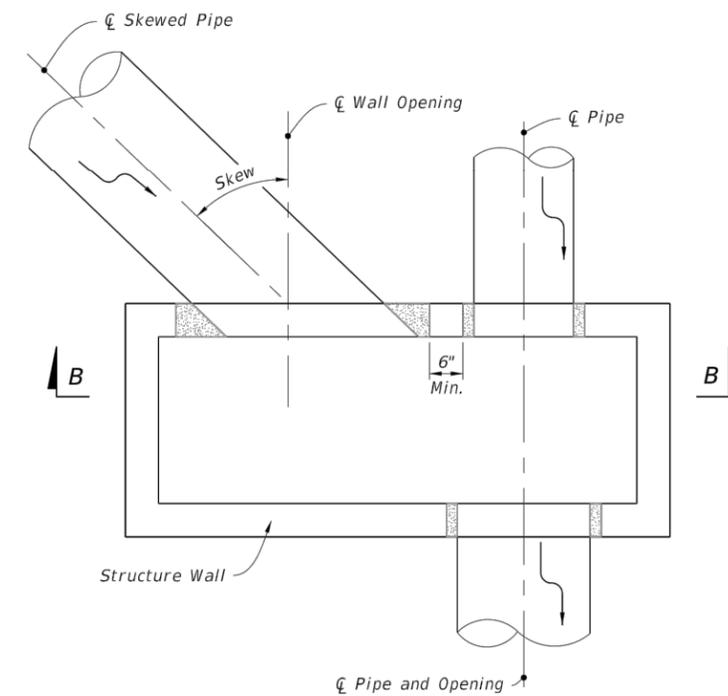


PLAN

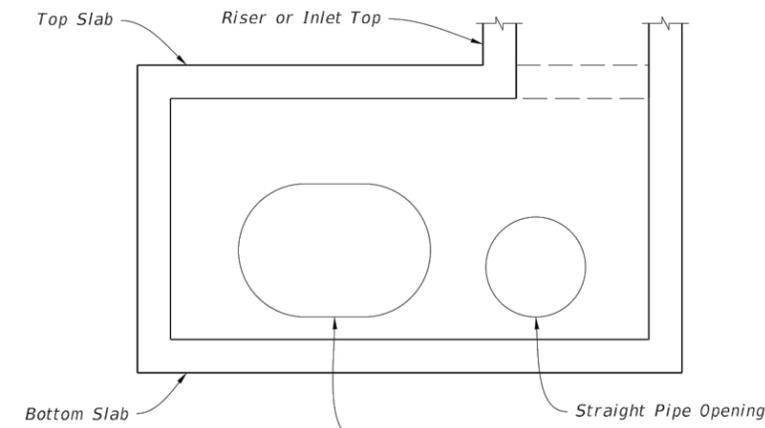


SECTION A-A

SKEWS $\leq 45^\circ$
(Not Centered)



PLAN



SECTION B-B

SKEWS $> 45^\circ$
(Not Centered)

SKewed PIPE IN RECTANGULAR STRUCTURES
(See Table 4 on Sheet 8)

SKewed PIPE IN RECTANGULAR STRUCTURES

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NO.	BY	DATE	DESCRIPTION	INITIALS	DATE
DESIGN	JV				
DRAWN	PCS				
CHECKED	MP				
QUALITY CHK					
SCALE					

PREPARED FOR:
City Of Arcadia
P.O. Drawer 1000
Arcadia, Florida, 34265
(863) 494-4114



George F. Young, Inc.
525 OLYMPIA AVENUE, SUITE 5 PUNTA GORDA, FLORIDA 33950
PHONE (352) 378-1444 WWW.GEORGEF.YOUNG.COM
ENGINEERING CERTIFICATE OF AUTHORIZATION NUMBER 21
CML, TRANSPORTATION, SUBSURFACE & STRUCTURAL ENGINEERING
ECOLOGY | GIS | PLANNING | SURVEYING
ST. PETERSBURG • LAKEWOOD RANCH • TAMPA • GAINESVILLE • LAKE WALES • PUNTA GORDA

No. _____
DATE _____

Arcadia Stormwater and Flood Control
Special Details
INCLUDES PORTIONS OF:
SECTIONS 25, 26, 31, 36, TOWNSHIP 37S., RANGE 24, 25E.

JOB NO.
21Y01018LC
SHEET NO.
SD24

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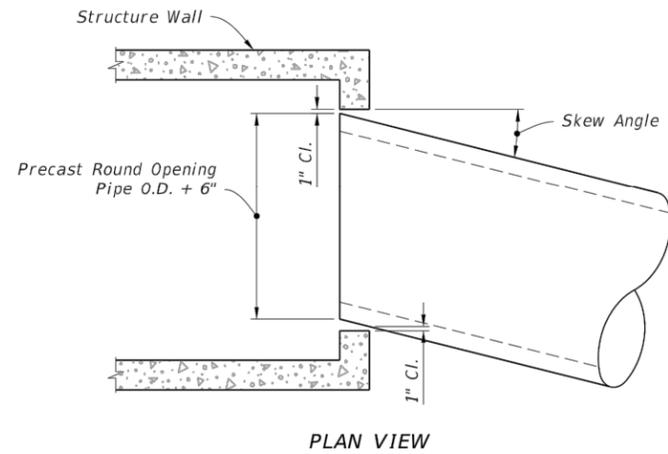
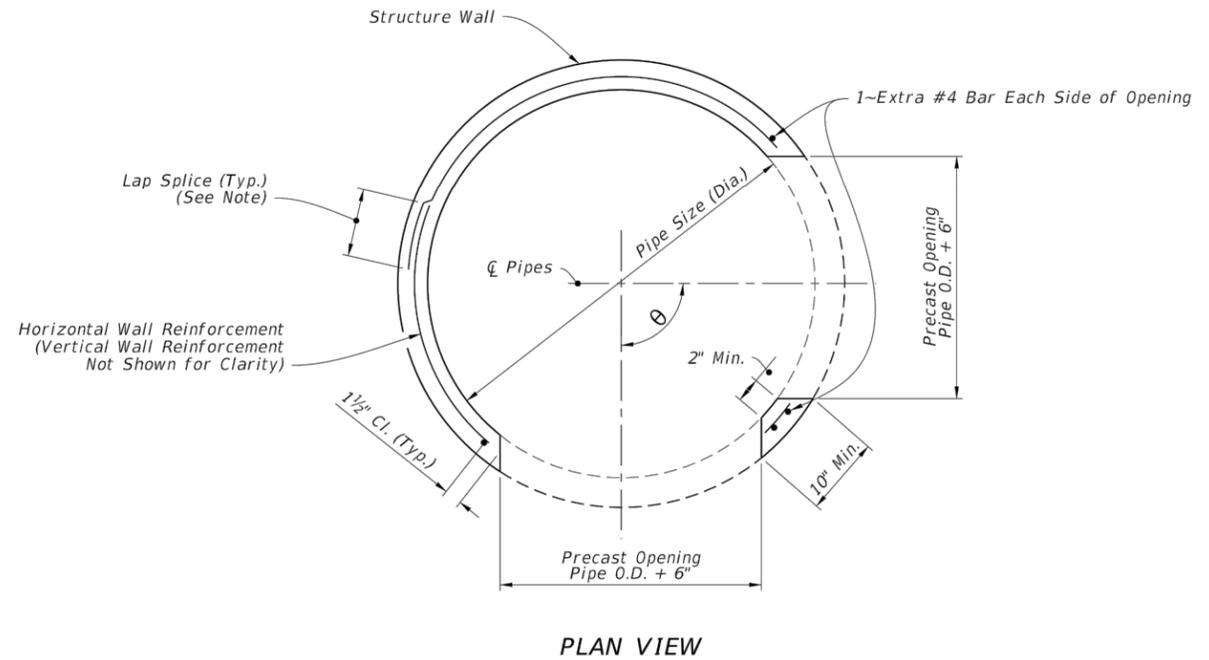


TABLE 4 - MAXIMUM PIPE SKEW FOR PRECAST ROUND OPENINGS

MAXIMUM SKEW ANGLE	WALL THICKNESS	PIPE SIZE											
		18"	24"	30"	36"	42"	48"	54"	60"	66"	72"	78"	84"
8°	8"	19°	17°	16°	16°	15°	14°	14°	13°	13°	13°	12°	12°
6°	6"	21°	20°	18°	17°	17°	16°	15°	15°	14°	14°	13°	13°

NOTE:
 These values are based on 2" clearance for precast structures. Larger skews are possible for Cast-In-Place Structures or elliptical pipe openings when approved by the Engineer.

MAXIMUM PIPE SKEW FOR PRECAST ROUND OPENINGS



NOTE:
 Lap splice: 20 bar diameter for deformed wire or bar, but not less than vertical wire spacing plus 2" for WWR or 40 bar diameters for smooth wire.

MULTIPLE PIPE CONNECTIONS - PRECAST ROUND STRUCTURES

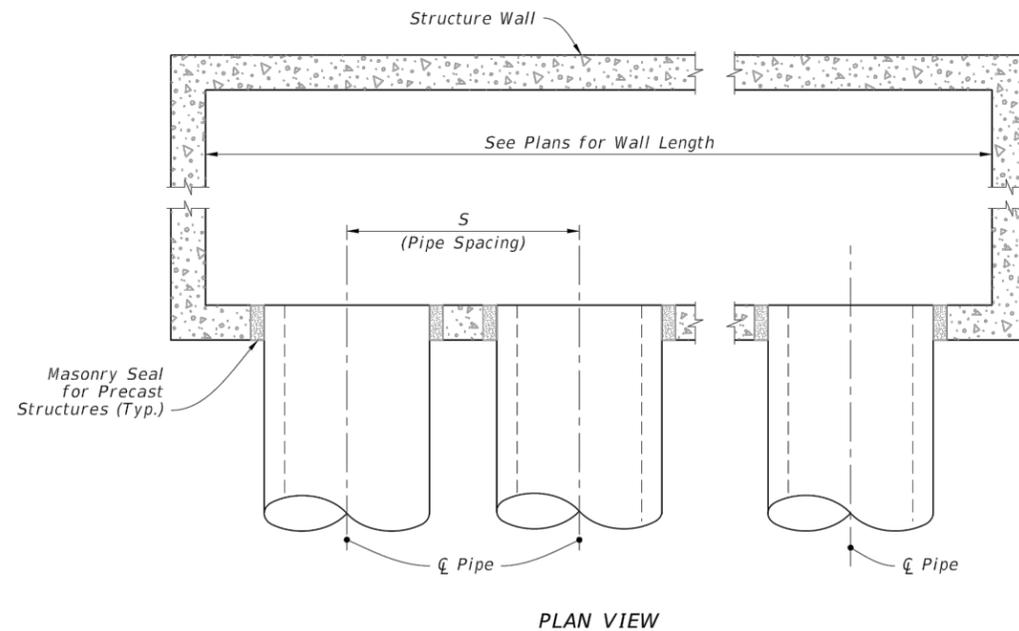


TABLE 5 - MINIMUM SIZES FOR MULTIPLE PARALLEL PIPE CONNECTIONS

PIPE SIZE	PIPE SPACING (S)
18"	2'-10"
24"	3'-5"
30"	4'-3"
36"	5'-1"
42"	6'-0"
48"	6'-9"
54"	7'-8"
60"	8'-6"
66"	9'-0"
72"	10'-0"
78"	10'-9"
84"	11'-8"

MULTIPLE PARALLEL PIPE CONNECTIONS - RECTANGULAR STRUCTURES

MISCELLANEOUS PIPE CONNECTION DETAILS

LAST REVISION 11/01/20	DESCRIPTION:		FY 2025-26 STANDARD PLANS	SUPPLEMENTARY DETAILS FOR DRAINAGE STRUCTURES	INDEX 425-001	SHEET 8 of 8
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REVISED	NO.	BY	DATE	DESCRIPTION	INITIALS	DATE	PREPARED FOR: City Of Arcadia P.O. Drower 1000 Arcadia, Florida, 34265 (863) 494-4114			George F. Young, Inc. 525 OLYMPIA AVENUE, SUITE 5 PUNTA GORDA, FLORIDA 33950 PHONE (352) 378-1444 WWW.GEORGEFYOUNG.COM ENGINEERING CERTIFICATE OF AUTHORIZATION NUMBER 21 CML, TRANSPORTATION, SUBSURFACE & STRUCTURAL ENGINEERING ECOLOGY GIS PLANNING SURVEYING ST. PETERSBURG • LAKEWOOD RANCH • TAMPA • GAINESVILLE • LAKE WALES • PUNTA GORDA	Arcadia Stormwater and Flood Control Special Details	JOB NO. 21Y01018LC SHEET NO. SD25
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GENERAL NOTES:

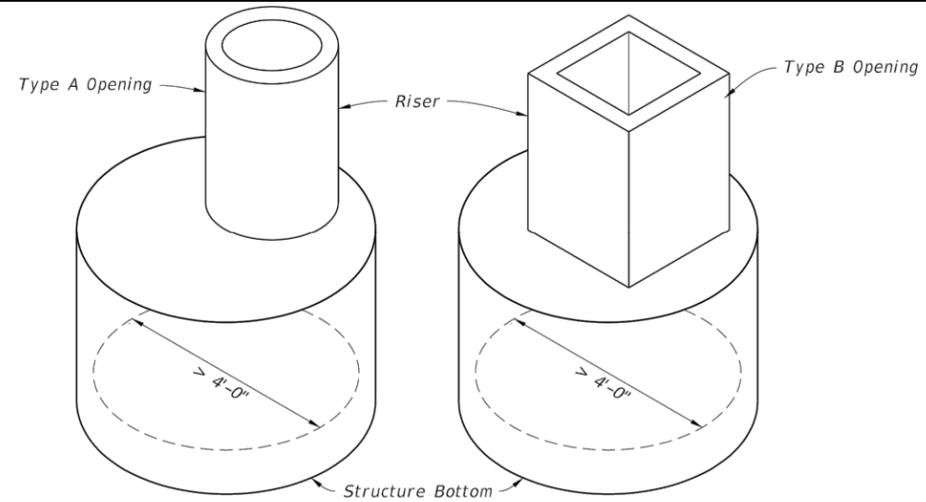
1. Work this Index with Specification 425 and Index 425-001.
2. Type P standard structure bottoms are 4'-0" diameter and smaller (Alt. A) and 3'-6" square (Alt. B). Larger standard structure bottoms are designated Type J. Risers are permitted for all structures.
3. Walls of circular structures (Alt. 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:

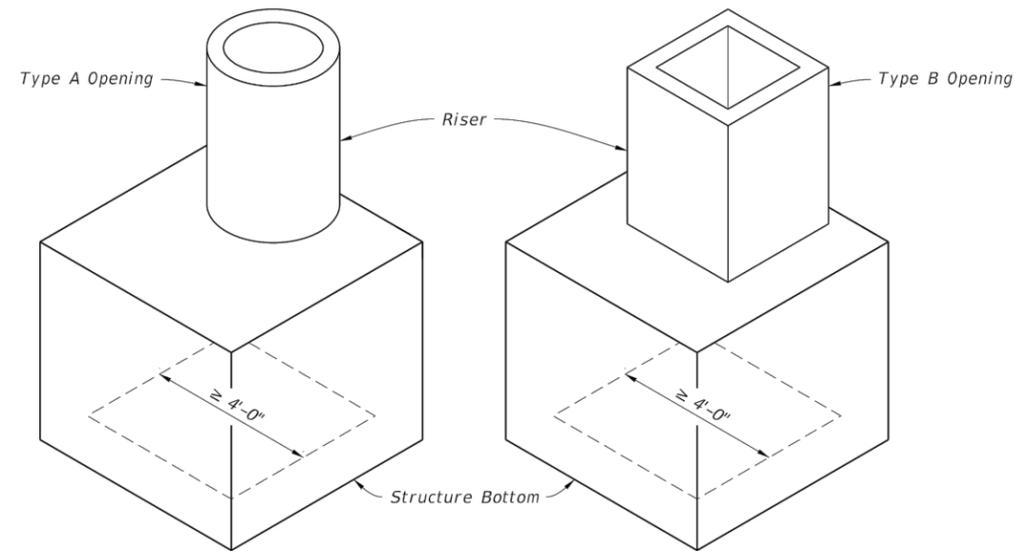
1. Locate wall reinforcement in rectangular structures as shown in the WALL REINFORCEMENT SPLICE DETAILS in Index 425-001.
2. Provide a minimum 2" clear cover for all reinforcement unless otherwise noted and except for 36" diameter ASTM C478 units.
3. Additional bars used to restrain hole formers for 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

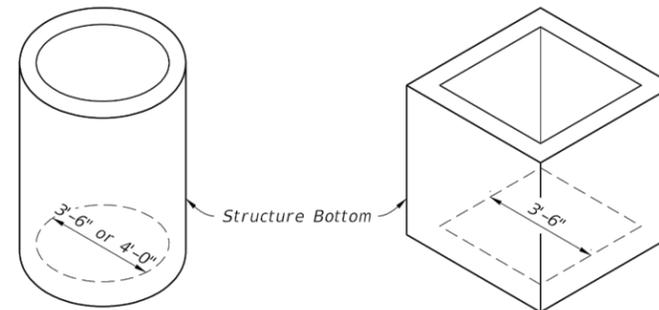


ALTERNATE A

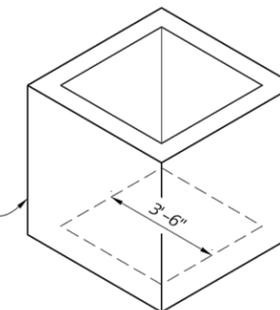


ALTERNATE B

TYPE J



ALTERNATE A



ALTERNATE B

TYPE P

LAST REVISION 11/01/20

REVISION DESCRIPTION:

FDOT FY 2025-26 STANDARD PLANS

STRUCTURE BOTTOMS TYPE J AND P

INDEX 425-010

SHEET 1 of 4

NO.	BY	DATE	DESCRIPTION	INITIALS	DATE
DESIGN	JV				
DRAWN	PCS				
CHECKED	MP				
QUALITY CHK					
SCALE					

PREPARED FOR:
City Of Arcadia
P.O. Drower 1000
Arcadia, Florida, 34265
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ECOLOGY | GIS | PLANNING | SURVEYING
ST. PETERSBURG • LAKEWOOD RANCH • TAMPA • GAINESVILLE • LAKE WALES • PUNTA GORDA

No. _____
DATE _____

Arcadia Stormwater and Flood Control
Special Details
INCLUDES PORTIONS OF:
SECTIONS 25, 26, 31, 36, TOWNSHIP 37S., RANGE 24, 25E.

JOB NO. 21Y01018LC
SHEET NO. SD26

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TABLE 1 - ALTERNATE A - STRUCTURES

TYPE	STRUCTURE/RISER DIAMETER (ft)	CAST-IN-PLACE ITEMS CLASS II CONCRETE			PRECAST ITEMS				
		RISER (in.)	BOTTOM (in.)	A ₅ (in. ² /ft.)	CLASS II CONCRETE			ASTM C478	
					t ₁ (in.)	t ₂ (in.)	A ₅ (in. ² /ft.)	t ₁ or t ₂ (in.)	A ₂ *** (in. ² /ft.)
P	3'-6"	6	8	0.20	6	8	0.20	4**	0.105
P	4'-0"	6	8	0.20	6	8	0.20	5**	0.120
J	5'-0"	-	8	0.20	-	8	0.20	6**	0.150
J	6'-0"	-	8	0.20	-	8	0.20	6	0.180
J	7'-0"	-	8	0.20	-	8	0.20	7	0.210
J	8'-0"	-	8	0.20	-	8	0.20	8	0.240
J	10'-0"	-	10	0.40##	-	10	0.40##	10	0.300
J	12'-0"	-	10	0.40##	-	12	0.40##	12	0.360

t₁ and t₂ - Wall Thickness.

A₅ - Vertical and horizontal areas of reinforcement.

##Provide 0.20 eq. in.²/ft. at each face, 12" max. bar spacing.

**Modified minimum wall thickness.

***Min. total circumferential reinforcement for continuous steel hoops:

A₂ = 0.40 sq. in. for riser section height equal or less than 2'-0" (2 hoop min.)

A₂ = 0.60 sq. in. for riser section height more than 2'-0" up to 4'-0" (3 hoop min.)

Areas of reinforcing for precast items are based on Grade 60 reinforcing.

No reduction in the area of reinforcement is allowed for welded wire fabric in Table 1.

Area of vertical reinforcing may be reduced in accordance with ASTM C478.

TABLE 2 - ALTERNATE B SQUARE AND RECTANGULAR STRUCTURES

TYPE	WALL LENGTH (FT)	MAX. DEPTH (FT)	WALL THICKNESS (t ₃)	
			C-I-P (in.)	PRECAST (in.)
P	≤3'-6"	40	6 Riser 8 Bottom	6
J	4'-0"	40	8	6
J	5'-0"	22	-	6
J	6'-0"	15	-	6
J	5'-0" to 9'-0"	40	8	8
J	10'-0"	26	8	8
J	10'-0" to 12'-0"	40	10	9
J	16'-0"	35	-	9
J	16'-0"	40	10	10
J	20'-0"	25	-	9
J	20'-0"	30	10	10

See Table 4 for Reinforcing Schedule.

TABLE 4 - WALL DESIGNS - RECTANGULAR STRUCTURES

VERTICAL REINFORCING		HORIZONTAL REINFORCING		WALL THICKNESS	
WALL DEPTH	SCHEDULE	WALL DEPTH	SCHEDULE		
SIZE: 3'-6" & RISER					
≥1.17' - 40'	A12	≥1.17' < 10'	B10	6"/8"	
		10' < 18'	B5.5	6"/8"	
		18' < 29'	C6.5	6"/8"	
		29' - 40'	C3.5	6"/8"	
SIZE: 4'-0"					
≥1.17' - 40'	A12	≥1.17' < 6'	B10	6"/8"	
		6' < 10'	B5.5	6"/8"	
		10' < 20'	C6.5	6"/8"	
		20' < 28'	C3.5	6"/8"	
		28' - 40'	D4.5	6"/8"	
SIZE: 5'-0"					
≥1.17' - 40'	A12	≥1.17' < 5'	B5.5	6"/8"	
		5' < 9'	C6.5	6"/8"	
		9' < 15'	C3.5	6"/8"	
		15' < 22'	D4.5	6"/8"	
		22' - 40'	E3	8"	
SIZE: 6'-0"					
≥1.17' < 26'	A12	≥1.17' < 9'	C3.5	6"/8"	
		9' < 15'	D4.5	6"/8"	
		15' < 26'	E3	8"	
	Inside/Outside		Inside/Outside		
26' - 40'	A12	26' - 40'	D7	D7	8"
SIZE: 7'-0"					
	Inside/Outside		Inside/Outside		
≥1.17' < 25'	A12	≥1.17' < 7'	B10	B10	8"
26' - 40'	B10	7' < 10'	B5.5	B5.5	8"
		10' < 20'	C6.5	C6.5	8"
		20' < 30'	D7	D7	8"
		30' - 40'	E5	E5	8"
SIZE: 8'-0"					
	Inside/Outside		Inside/Outside		
≥1.17' < 20'	A12	≥1.17' < 6'	B5.5	B5.5	8"
20' - 40'	C6.5	6' < 13'	C6.5	C6.5	8"
		13' < 22'	D7	D7	8"
		22' < 31'	E5	E5	8"
		31' - 40'	F5	F5	8"
SIZE: 9'-0"					
	Inside/Outside		Inside/Outside		
≥1.17' < 12'	A12	≥1.17' < 8'	C6.5	C6.5	8"
12' < 28'	C6.5	8' < 15'	D7	D7	8"
28' - 40'	D7	15' < 23'	E5	E5	8"
		23' - 40'	F5	F5	8"
SIZE: 10'-0"					
	Inside/Outside		Inside/Outside		
≥1.17' < 10'	B10	≥1.17' < 10'	D7	D7	8"
10' < 21'	C6.5	10' < 17'	E5	E5	8"
21' < 26'	D7	17' < 26'	F5	F5	8"
26' - 40'	C6.5	26' - 40'	F5	F5	10"

TABLE 3 - REINFORCING SCHEDULE

SCHEDULE	GRADE 60 BARS OR 65 KSI & 70 KSI WELDED WIRE REINFORCING			
	GRADE 60 AREA (in. ² /ft)	MAXIMUM SPACING		
		GR 60 BARS (in.)	65 KSI (in.)	70 KSI (in.)
A12	0.20	12	8	8
A6	0.20	6	5	4½
B10	0.24	10	8	7½
B5.5	0.24	5½	5	4
C6.5	0.37	6½	6	5
C3.5	0.37	3½	3	2½
D7	0.53	7	6	5
D4.5	0.53	4½	4	3½
E5	0.73	5	4	4
E3	0.73	3	3	3
F5	1.06	5	4	4
F3.5	1.06	3½	3	3
G5	1.45	5	4	4
G.3.5	1.45	3½	3	3
H4	1.75	4	3	3

TABLE 4 NOTES:

1. Wall depth is measured to the top of the bottom slab for boxes and to the top of the intermediate slab for risers.
2. Wall height is the distance between top of lower slab to bottom of upper slab. Maximum wall height is 12' for wall lengths exceeding 5', or 10' for wall lengths exceeding 12'.
3. Wall lengths exceeding 6'-0" require two layers of reinforcing (See Table 4) with 2" of cover from the horizontal bars to the inside and outside faces for each layer.
4. Wall lengths exceeding the dimensions or depths shown in Table 4, or 12'-0" diameter require a special design.
5. Wall thickness and reinforcing for rectangular structures is based on the longer wall length.

TABLES 1, 2, 3, AND 4

LAST REVISION 11/01/20	DESCRIPTION:	 FY 2025-26 STANDARD PLANS	STRUCTURE BOTTOMS TYPE J AND P	INDEX 425-010	SHEET 3 of 4
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NO.	BY	DATE	DESCRIPTION	INITIALS	DATE	PREPARED FOR: City Of Arcadia P.O. Drawer 1000 Arcadia, Florida, 34265 (863) 494-4114			George F. Young, Inc. 525 OLYMPIA AVENUE, SUITE 5 PUNTA GORDA, FLORIDA 33950 PHONE (352) 378-1444 WWW.GEORGEFYOUNG.COM ENGINEERING CERTIFICATE OF AUTHORIZATION NUMBER 21 CIVIL, TRANSPORTATION, SUBSURFACE & STRUCTURAL ENGINEERING ECOLOGY GIS PLANNING SURVEYING ST. PETERSBURG • LAKEWOOD RANCH • TAMPA • GAINESVILLE • LAKE WALES • PUNTA GORDA	<table border="1"> <tr><td>---</td><td>No.</td></tr> <tr><td>DATE</td><td></td></tr> </table>	---	No.	DATE		Arcadia Stormwater and Flood Control Special Details	JOB NO. 21Y01018LC SHEET NO. SD28
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DATE																

INCLUDES PORTIONS OF:
SECTIONS 25, 26, 31, 36, TOWNSHIP 37S., RANGE 24, 25E.

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TABLE 5 - SLAB DESIGNS - SQUARE AND RECTANGULAR STRUCTURES
(ALL SLABS 8" THICK EXCEPT AS NOTED - REINFORCING PARALLEL TO SHORT WAY AND LONG WAY)

SHORT-WAY		LONG-WAY		SHORT-WAY		LONG-WAY		SHORT-WAY		LONG-WAY	
SLAB DEPTH	SCHEDULE (Bars A)	SLAB DEPTH	SCHEDULE (Bars B)	SLAB DEPTH	SCHEDULE (Bars A)	SLAB DEPTH	SCHEDULE (Bars B)	SLAB DEPTH	SCHEDULE (Bars A)	SLAB DEPTH	SCHEDULE (Bars B)
SIZE: 3'-6" x UNLIMITED				SIZE: 6' x 6'				SIZE: 8' x 8'			
≥0.5' < 8'	B10	≥0.5' < 24'	B10	≥0.5' < 13'	C6.5	≥0.5' < 10'	C3.5	≥0.5' < 10'	D7	≥0.5' < 9'	D4.5
8' < 13'	B5.5	24'-40'	B5.5	13' < 23'	D7	10' < 18'	D4.5	10' < 19'	E5	9' < 13'	E5
13' < 31'	C6.5			23'-40'	E5	18' < 27'	E5	19'-30'	F5	13' < 18'	F5
31'-40'	D7					27' < 33'	E3			18' < 23'	F3.5
						33'-40'	F5			23'-30'	G3.5
SIZE: 4' x UNLIMITED				SIZE: 6' x 7'				SIZE: 8' x 9'			
≥0.5' < 7'	B5.5	≥0.5' < 15'	B10	≥0.5' < 8'	C6.5	≥0.5' < 8'	C6.5	≥0.5' < 8'	D7	≥0.5' < 7'	D7
7' < 19'	C6.5	15' < 29'	B5.5	8' < 16'	D7	8' < 12'	C3.5	8' < 14'	E5	7' < 9'	D4.5
19' < 31'	D7	29'-40'	C6.5	16' < 28'	E5	12' < 21'	D4.5	14' < 23'	F5	9' < 15'	E3
31'-40'	E5			28'-40'	F5	21' < 28'	E5	23'-31'	G3.5	15' < 20'	F5
						28' < 35'	E3			20' < 23'	F3.5
						35'-40'	F5			23'-31'	G3.5
SIZE: 5' x 5'				SIZE: 6' x 8'				SIZE: 9' x 9'			
≥0.5' < 3'	C6.5	≥0.5' < 3'	C6.5	≥0.5' < 6'	C6.5	≥0.5' < 6'	B5.5	≥0.5' < 8'	D7	≥0.5' < 7'	D4
3' < 7'	B5.5	3' < 13'	C6.5	6' < 13'	D7	6' < 11'	C6.5	8' < 14'	E5	7' < 10'	E5
7' < 22'	C6.5	13' < 22'	D7	13' < 22'	E5	11' < 17'	C3.5	14' < 22'	F5	10' < 17'	F3.5
22' < 29'	D7	22' < 29'	D4.5	22' < 35'	F5	17' < 22'	D4.5	22' < 35'	G5	17' < 22'	G3.5
29'-40'	E5	29'-40'	E5	35'-40'	G5	22' < 32'	E5			22'-32'	G3.5
						32'-40'	E3	SIZE: 9'x9'x10" SLAB THICKNESS			
								22' < 36'	F5	22' < 31'	F3.5
								36'-40'	G5	31'-40'	G3.5
SIZE: 5' x 6'				SIZE: 6' x 9'				SIZE: 10'x10'x10" SLAB THICKNESS			
≥0.5' < 12'	C6.5	≥0.5' < 3'	C6.5	≥0.5' < 8'	D7	≥0.5' < 8'	B5.5	≥0.5' < 7'	C6.5	0.5' < 6'	C6.5
12' < 26'	D7	3' < 9'	B5.5	8' < 14'	E5	8' < 14'	C6.5	7' < 10'	D7	6' < 9'	D4.5
26'-40'	E5	9' < 23'	C3.5	14' < 24'	F5	14' < 21'	C3.5	10' < 18'	E5	9' < 15'	E5
		23' < 35'	D4.5	24'-34'	G5	21' < 25'	D4.5	18' < 27'	F5	15' < 22'	F5
		35'-40'	E5			25'-34'	E5	27'-32'	G5	22'-32'	G3.5
SIZE: 5' x 7'				SIZE: 6' x UNLIMITED				SIZE: 12'x12'x12" SLAB THICKNESS			
≥0.5' < 10'	C6.5	≥0.5' < 10'	B5.5	≥0.5' < 8'	D7	≥0.5' < 8'	B5.5	≥0.5' < 10'	D7	≥0.5' < 8'	D7
10' < 20'	D7	10' < 31'	C3.5	8' < 14'	E5	8' < 14'	C6.5	10' < 16'	E5	8' < 14'	E5
20' < 34'	E5	31'-40'	D4.5	14' < 24'	F5	14' < 21'	C3.5	16' < 25'	F5	14' < 22'	F5
34'-40'	F5			24'-34'	G5	21' < 25'	D4.5	25'-35'	G5	22' < 30'	G5
						25'-34'	E5			30'-35'	H4
SIZE: 5' x 8'				SIZE: 7' x 7'				SIZE: 10'x10'x10" SLAB THICKNESS			
≥0.5' < 7'	C6.5	≥0.5' < 8'	B10	≥0.5' < 8'	D7	≥0.5' < 8'	B5.5	≥0.5' < 7'	C6.5	0.5' < 6'	C6.5
7' < 13'	D7	8' < 17'	B5.5	8' < 14'	E5	8' < 14'	C6.5	7' < 10'	D7	6' < 9'	D4.5
13' < 24'	E5	17' < 25'	C6.5	14' < 24'	F5	14' < 21'	C3.5	10' < 18'	E5	9' < 15'	E5
24'-40'	F5	25'-40'	C3.5	24'-34'	G5	21' < 25'	D4.5	18' < 27'	F5	15' < 22'	F5
						25'-34'	E5	27'-32'	G5	22'-32'	G3.5
SIZE: 5' x 9'				SIZE: 7' x 8'				SIZE: 12'x12'x12" SLAB THICKNESS			
≥0.5' < 8'	C6.5	≥0.5' < 14'	B10	≥0.5' < 8'	D7	≥0.5' < 8'	B5.5	≥0.5' < 10'	D7	≥0.5' < 8'	D7
8' < 14'	D7	14' < 24'	B5.5	8' < 14'	E5	8' < 14'	C6.5	10' < 16'	E5	8' < 14'	E5
14' < 25'	E5	24' < 34'	C6.5	14' < 24'	F5	14' < 21'	C3.5	16' < 25'	F5	14' < 22'	F5
25'-40'	F5	34'-40'	C3.5	24'-34'	G5	21' < 25'	D4.5	25'-35'	G5	22' < 30'	G5
						25'-34'	E5			30'-35'	H4
SIZE: 5' x UNLIMITED				SIZE: 7' x 9'				SIZE: 12'x12'x12" SLAB THICKNESS			
≥0.5' < 8'	C6.5	≥0.5' < 14'	B10	≥0.5' < 8'	D7	≥0.5' < 8'	B5.5	≥0.5' < 10'	D7	≥0.5' < 8'	D7
8' < 14'	D7	14' < 24'	B5.5	8' < 14'	E5	8' < 14'	C6.5	10' < 16'	E5	8' < 14'	E5
14' < 25'	E5	24' < 34'	C6.5	14' < 24'	F5	14' < 21'	C3.5	16' < 25'	F5	14' < 22'	F5
25'-40'	F5	34'-40'	C3.5	24'-34'	G5	21' < 25'	D4.5	25'-35'	G5	22' < 30'	G5
						25'-34'	E5			30'-35'	H4

TABLE 6 - SLAB DESIGNS ROUND STRUCTURES

SLAB DEPTH	SLAB THICKNESS	REINF. (2-WAY) SCHEDULE
SIZE: 3'-6" DIAMETER		
2'-15'	6" Precast	C6.5
0.5' < 30'	8"	A6
30'-40'	8"	B5.5
SIZE: 4'-0" DIAMETER		
≥0.5' < 19'	8"	A6
19' < 30'	8"	B5.5
30'-40'	8"	C6.5
SIZE: 5'-0" DIAMETER		
≥0.5' < 15'	8"	B5.5
15' < 26'	8"	C6.5
26' < 35'	8"	D7
35'-40'	8"	D4.5
SIZE: 6'-0" DIAMETER		
≥0.5' < 9'	8"	B5.5
9' < 15'	8"	C6.5
15' < 22'	8"	C3.5
22' < 30'	8"	D4.5
30'-40'	8"	E5
SIZE: 7'-0" DIAMETER		
≥0.5' < 8'	8"	C3.5
8' < 16'	8"	D4.5
16' < 23'	8"	E5
23' < 27'	8"	E3
27'-40'	8"	F3.5
SIZE: 8'-0" DIAMETER		
≥0.5' < 10'	8"	D4.5
10' < 16'	8"	E5
16' < 19'	8"	E3
19' < 29'	8"	F3.5
29'-40'	10"	F5
SIZE: 10'-0" DIAMETER		
≥0.5' < 12'	10"	D4.5
12' < 20'	10"	E5
20' < 28'	10"	F5
28'-40'	10"	G3.5
SIZE: 12'-0" DIAMETER		
≥0.5' < 8'	10"	D4.5
8' < 13'	10"	E5
13' < 18'	10"	F5
18' < 26'	10"	G3.5
26'-40'	12"	G3.5

SLAB AND WALL DESIGN TABLE NOTES

1. Size is the inside dimension(s) of a structure.
2. Slab reinforcement is appropriate for top, intermediate, and bottom slabs.
3. Bottom Slabs for precast 3'-6" x 3'-6" rectangular structures at 15' depth or less, may be 6" thick.
4. Slab depth is measured from finished grade to top of slab.
5. Reinforcing schedules with larger areas of steel may be substituted for schedules with smaller bar or wire spacing, except that Schedule B10 may not be substituted for Schedule A6. See Index 425-001 for allowable bar spacing adjustments when larger areas of reinforcing are substituted.

TABLES 5 AND 6

LAST REVISION 11/01/20	DESCRIPTION:	 FY 2025-26 STANDARD PLANS	STRUCTURE BOTTOMS TYPE J AND P	INDEX 425-010	SHEET 4 of 4
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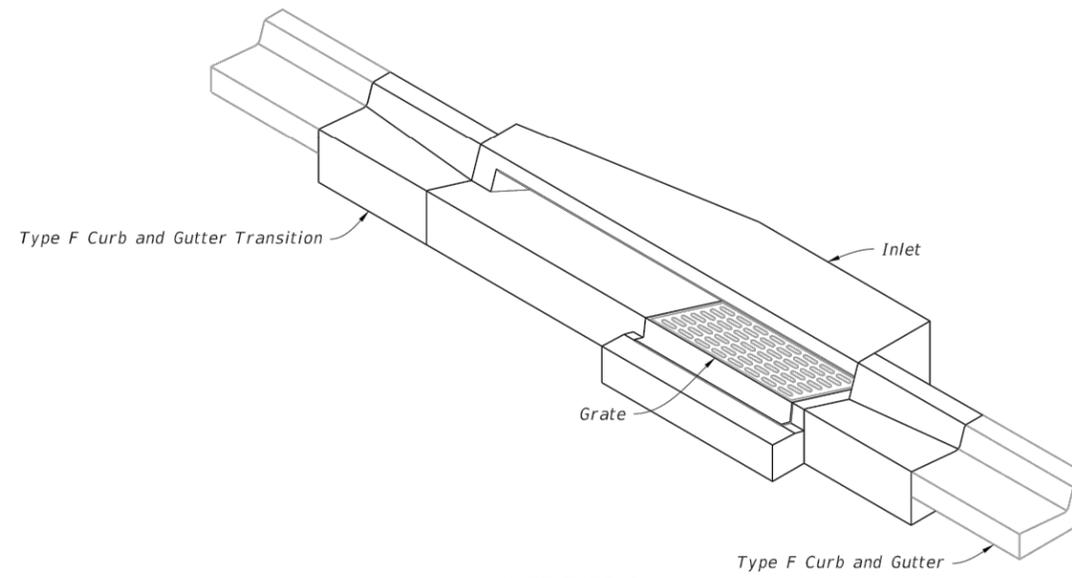
REVISED	NO.	BY	DATE	DESCRIPTION	INITIALS	DATE	PREPARED FOR: City Of Arcadia P.O. Drawer 1000 Arcadia, Florida, 34265 (863) 494-4114			George F. Young, Inc. 525 OLYMPIA AVENUE, SUITE 5 PUNTA GORDA, FLORIDA 33950 PHONE (352) 378-1444 WWW.GEORGEFYOUNG.COM ENGINEERING CERTIFICATE OF AUTHORIZATION NUMBER 21 CML, TRANSPORTATION, SUBSURFACE & STRUCTURAL ENGINEERING ECOLOGY GIS PLANNING SURVEYING ST. PETERSBURG • LAKEWOOD RANCH • TAMPA • GAINESVILLE • LAKE WALES • PUNTA GORDA	No. _____ DATE _____	Arcadia Stormwater and Flood Control Special Details INCLUDES PORTIONS OF: SECTIONS 25, 26, 31, 36, TOWNSHIP 37S., RANGE 24, 25E.	JOB NO. 21Y01018LC SHEET NO. SD29
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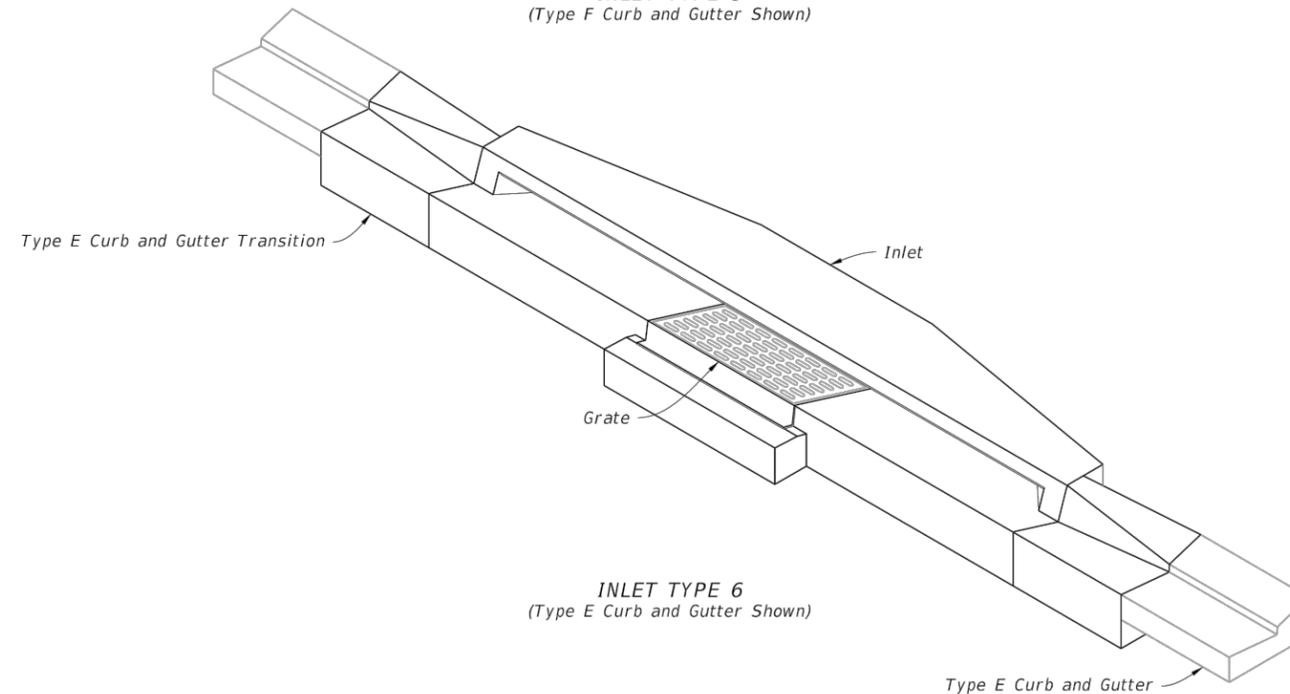
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GENERAL NOTES:

1. Work this Index with Index 425-001 and Index 425-010.
2. Conform the finished grade and slope of the inlet tops with the finished cross slope and grade of the proposed sidewalk and/or border.
3. For inlets constructed on a curve, refer to the plans to determine the radius. Bend steel when necessary.
4. Use Grade 60 reinforcing bars with 1 1/4" minimum cover unless otherwise shown, see Sheet 6 for equivalent area Welded Wire Reinforcement details.
5. Inlet tops may be either cast-in-place or precast concrete. Conform precast units to the dimensions shown or in accordance with approved shop drawings.
6. Corner fillets are required at inlet opening for precast units or C-I-P units used in conjunction with circular inlet bottoms or skewed rectangular inlet boxes. Finish top of fillets flush with drain throat bottom and match slope.
7. For Type E curb and gutter, transition the shape of the curb over the gutter transition length to match the face of the inlet (Type Ft).
8. Meet the requirements of ASTM A36/A36M with steel used for frames and grates.
9. Use either cast iron grates or steel grates.



INLET TYPE 5
(Type F Curb and Gutter Shown)



INLET TYPE 6
(Type E Curb and Gutter Shown)

==== CURB INLETS TOPS =====

TABLE OF CONTENTS:	
Sheet	Description
1	General Notes and Contents
2	Type 5 and 6 Dimensional Details
3	Type 5 and 6 Reinforcing and Bar Bending Details
4	Precast Dimensional and Reinforcing Details
5	Cast-In-Place Dimensional and Reinforcing Details
6	Alternate Welded Wire Reinforcing (WWR) Details
7	Grate, Anchor, and Grouting Details

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LAST REVISION 11/01/20	DESCRIPTION:	FY 2025-26 STANDARD PLANS	CURB INLET TOP TYPES 5 AND 6	INDEX 425-021	SHEET 1 of 7
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REVISED	NO.	BY	DATE	DESCRIPTION	DESIGN	INITIALS	DATE	PREPARED FOR:			525 OLYMPIA AVENUE, SUITE 5 PUNTA GORDA, FLORIDA 33950 PHONE (352) 378-1444 WWW.GEORGEFYOUNG.COM ENGINEERING CERTIFICATE OF AUTHORIZATION NUMBER 21 CML, TRANSPORTATION, SUBSURFACE & STRUCTURAL ENGINEERING ECOLOGY GIS PLANNING SURVEYING ST. PETERSBURG • LAKEWOOD RANCH • TAMPA • GAINESVILLE • LAKE WALES • PUNTA GORDA	No. DATE	Arcadia Stormwater and Flood Control Special Details	JOB NO. 21Y01018LC
								City Of Arcadia P.O. Drawer 1000 Arcadia, Florida, 34265 (863) 494-4114						INCLUDES PORTIONS OF: SECTIONS 25, 26, 31, 36, TOWNSHIP 37S., RANGE 24, 25E.