

(ALTERNATE A)

(ALTERNATE B)

TYPICAL SLAB TO WALL DETAILS FOR PRECAST STRUCTURES

LAST REVISION 01/01/10

DESCRIPTION:



To Achievė Minimum Rebar

Embedment Beyond Inside Face

LAST

REVISION

07/01/13

ROUND STRUCTURE BOTTOMS (ALTERNATE A) & ROUND RISERS- TABLE 1 Wall Thickness ($t_1 \& t_2$) and Vertical & Horizontal Areas of Reinforcement (A_5)

	, ,										
		Cast-In-Place Items			Precast Items						
	 Structure/Riser	Clas	ss II Cor	ncrete	Clas	ss II Con	ocrete	ASTM C478			
Туре	Diameter (ft)	t ₁	t ₂	A₅	t ₁	t ₂	As	tı or t2	A2 ***		
		Riser (in.)	Bottom (in.)	(in.²/ft.)	Riser (in.)	Bottom (in.)	(in.²/ft.)	(in.)	(in.²/ft.)		
Р	3'-6"	6	8	0.20	6	8	0.20	4**	0.105		
Р	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	ı	8	0.20	6	0.180		
J	7'-0"	_	8	0.20	ı	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		

TABLE 1 NOTES:

##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:

 $A_2 = 0.50$ sq. in. for riser section height equal or less than 2'-0" (2 hoop min.)

 $A_2 = 0.75$ 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.

SQUARE & RECTANGULAR STRUCTURES (ALTERNATE B) – TABLE 2								
Tuna	Wall Length	Max.	Wall Thickness (t₃)					
Туре	(ft)	Depth (ft)	CIP (in.)	Precast (in.)				
Р	≤ 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				

TABLE 2 NOTES:

See Table 8 for Reinforcing Schedule.

GENERAL NOTES

- 1. Standard structure bottoms 4'-0" diameter and smaller (Alt. A) and 3'-6" square (Alt. B) are designated Type P. Larger standard structure bottoms are designated Type J. Risers are permitted for all structures. Round risers are designated Type A, square risers are designated Type B.
- 2. Walls of circular structures (Alt. A) constructed in place may be of brick or reinforced concrete. Precast and rectangular structures (Alt. B) shall be constructed of reinforced concrete only.
- 3. 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 modified wall thicknesses in Table 1).
- 4. Top and bottom slab thickness and reinforcement are for precast and cast-in-place construction. All concrete shall be of Class II concrete, except use Class IV concrete when shown in the Plans, for special applications of structures located in extremely aggressive environments. Concrete as specified in ASTM C478 (4000 psi) may be used in lieu of Class II concrete for precast items manufactured in accordance with Specifications Section 449.
- 5. All reinforcement shown is Grade 60 steel, deformed bar. Equivalent area Grade 40 steel or equivalent area smooth or deformed welded wire reinforcement in accordance with Specification Section 931 may be substituted according to Index No. 201, unless otherwise noted.
- 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 unless otherwise shown in the plans or other standard drawings. Alt. B structure bottoms may be used in conjunction with curb inlet Types 7 & 8, or any ditch bottom inlet unless otherwise shown in the plans or other standard drawings.
- 7. Rectangular structures may be rotated as directed by the Engineer in order to facilitate connections between the structure walls and storm sewer pipes.
- 8. Except when ACI hooks are specifically required, reinforcement in top and bottom slab shall be straight embedment.
- 9. All reinforcement must have 2" minimum cover except for 3'-6" diameter precast circular units manufactured under ASTM C478, keved construction otherwise shown. Additional bars used to restrain hole formers for precast structures with grouted pipe connections, may be left flush with the hole surface. Cut or bend reinforcement at pipe openings to maintain cover. Exposed ends of reinforcing at precast pipe openings and grouted joints must be removed to 1" below the concrete surface and sealed with a Type F epoxy in accordance with Specification Section 926. Horizontal steel in rectangular structures shall be lapped a minimum of 30 bar diameters or by standard hooks at corners.
- 10. The corner fillets shown are necessary for rectangular structures used with circular risers and inlet throats and when used on skew with rectangular risers, inlets and inlet throats. Fillets will be required in the top slab of the Alt. A structure bottoms when used with the Alt. B risers. Each fillet shall be reinforced with two #5 bars.
- 11. Inlet walls, throats, risers or manhole tops shall be secured to structures as shown on Index No. 201 (Sheet 3 of 5) Optional Construction Joints.
- 12. Structures with depths over 14' below the mean high water table are to be checked for flotation by the designer of the
- 13. 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. Such larger units shall be furnished 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.
- 14. For manhole and junction box tops, for frames and covers, and, for supplementary details and notes see Index No. 201.
- 15. Type J structure bottoms must have a minimum 6'-0" wall height when possible, for maintenance access.

	RECTANG	ULAR	ROUND		
PIPE	Side Dimens	sion (L)	Diameter (D)		
SIZE	Single Pipe	Note	Single Pipe	2 to 4	
SIZL	Per Side	Number	or	Pipes	
	Per Side	Number	θ=180°	θ=90°	
18"	3'-6"		3'-6"	4'-0"	
24"	3'-6"		3'-6"	5'-0"	
<i>30</i> "	3'-6"/4'-0"	2	4'-0"	6'-0"	
36"	4'-0"/5'-0"	3	5'-0"	7'-0"	
42"	5'-0"		6'-0"	7'-0"	
48"	6'-0"		6'-0"	8'-0"	
54"	6'-0"		7'-0"	10'-0"	
60"	7'-0"		7'-0"	10'-0"	
66"	7'-0"/8'-0"	4	8'-0"	12'-0"	
72"	8'-0"		8'-0"	12'-0"	
78"	9'-0"		10'-0"	12'-0"	
84"	9'-0"		12'-0"	N/A	

TABLE 3 NOTES:

- 1. For Round Structures sizes with variable angles between pipes and variable pipe sizes, refer to the FDOT Storm Drain Handbook.
- 2. For 3'-6" Precast Square Structure Bottoms, 30" Pipes with similar invert elevations are not permitted in adjacent walls. Use 4'-0" Side Dimensions when 30" pipe openings are required on adjacent walls and the difference in flow lines is less than 3'-0".
- 3. For 4'-0" Precast Square Structure Bottoms, 36" Pipes with similar invert elevations are not permitted in adjacent walls. Use 5'-0" Side Dimensions when 36" pipe openings are required on adjacent walls and the difference in flow lines is less than 3'-0".
- 4. For 7'-0" Precast Square Structure Bottoms, 66" Pipes with similar invert elevations are not permitted in adjacent walls. Use 8'-0" Side Dimensions when 66" pipe openings are required on adjacent walls and the difference in flow lines is less than 4'-0".

TABLE 4-MINIMUM SIZES FOR MULTIPLE									
PARALLEL PIPE CONNECTIONS FOR									
RECTANGULAR STRUCTURE BOTTOMS									
PIPE	PIPE	MINIMUM	WALL LENGTH	H (L) FOR					
SIZE	SPACING	NUMBE	R OF PARALLEI	L PIPES					
SIZE	(5)	2	3	4					
18"	2'-10" 6'-0" 8'-6" 11'-0"								
24"	3'-5"	6'-6"	10'-0"	13'-6"					
30"	4'-3"	8'-0"	12'-6"	16'-6"					
36"	5'-1'	9'-6"	14'-6"	19'-6"					
42"	6'-0"	11'-0"	17'-0"	-					
48"	6'-9"	12'-6"	19'-0"	-					
54"	7'-8"	14'-0"	-	-					
60"	8'-6"	15'-0"	-	-					
66"	9'-0"	16'-6"	-	-					
72"	10'-0" 18'-0"								
78"	10'-9"	19'-0"	-	-					
84"	11'-8"	20'-6"	-	_					

TABLE 4 NOTES:

- 1. Minimum wall lengths based on precast structures, using concrete pipe with maximum skew angles per Table 5.
- 2. Wall lengths exceeding 20'-0" require special designs.

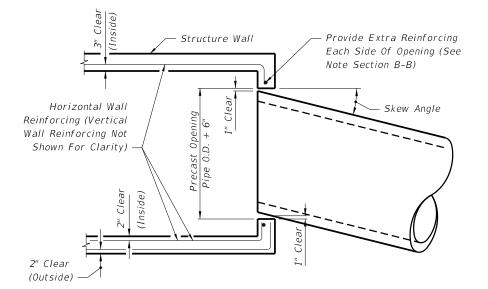
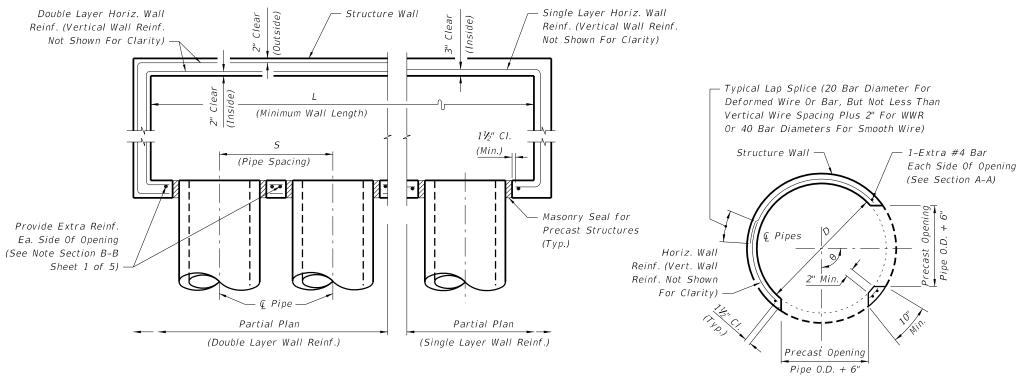


TABLE 5 - MAXIMUM PIPE SKEW FOR PRECAST ROUND OPENINGS													
	WALL						PIPE	SIZE					
	THICKNESS	18"	24"	30"	36"	42"	48"	54"	60"	66"	72"	78"	84"
MAXIMUM	8"	19°	17°	16°	16°	15°	14°	14°	13°	13°	13°	12°	12°
SKEW ANGLE	6"	21°	20°	18°	17°	17°	16°	15°	15°	14°	14°	13°	13°

TABLE 5 NOTES:

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 PLAN VIEW



MULTIPLE PARALLEL PIPE CONNECTIONS DETAIL PLAN VIEW

PRECAST ROUND STRUCTURES WITH MULTIPLE PIPE CONNECTIONS

STRUCTURE SIZES FOR PIPE CONNECTIONS

LAST REVISION 07/01/07

FDOT 2014 DESIGN STANDARDS

STRUCTURE BOTTOMS TYPE J AND P

INDEX SHEET NO. NO. 200 3 of 5

≥ DESCRIPTION:

SHORT	Γ-WAY	LONG-WAY								
SLAB	SCHEDULE	SLAB	SCHEDULE							
SLAB DEPTH	(Bars A)	SLAB DEPTH	(Bars B)							
DEFIN	, ,	DEFIII	(Dais D)							
SIZE: 3'-6" x UNLIMITED										
≥0.5′ < 8′	B10	≥0.5′ < 24′	B10							
8' < 13'	B5.5	24'-40'	B5.5							
13' < 31'	C6.5									
31'-40'	D7									
	SIZE: 1' v	UNLIMITED								
≥0.5′ < 7′		≥0.5' < 15'	D10							
	B5.5		B10							
7' < 19'	C6.5	15' < 29'	B5.5							
19' < 31'	D7	29'-40'	C6.5							
31'-40'	E5									
	SIZE:	5' x 5'								
≥0.5′ < 3′	C6.5	≥0.5′ < 3′	C6.5							
3' < 7'	B5.5	3' < 13'	C6.5							
7' < 22'	C6.5	13' < 22'	D7							
22' < 29'	D7	22' < 29'	D4.5							
29'-40'	E5	29'-40'	E5							
23 - 40		5' x 6'	LJ							
≥0.5' < 12'	C6.5	≥0.5′ < 3′	C6.5							
12' < 26'	D7	3' < 9'	B5.5							
26'-40'	E5	9' < 23'	C3.5							
20 ,0		23' < 35'	D4.5							
		35'-40'	E5							
	SIZE:	5' x 7'								
≥0.5' < 10'	C6.5	≥0.5' < 10'	B5.5							
10' < 20'	D7	10' < 31'	C3.5							
20' < 34'	E5	31'-40'	D4.5							
34'-40'	F5									
	SIZE:	5' x 8'								
≥0.5′ < 7′	C6.5	≥0.5′ < 8′	B10							
7' < 13'	D7	8' < 17'	B5.5							
13' < 24'	E5	17' < 25'	C6.5							
24'-40'	F 5	25'-40'	C3.5							
		5' x 9'								
≥0.5′ < 8′	C6.5	≥0.5′ < 14′	B10							
8' < 14'	D7	14' < 24'	B5.5							
14' < 25'	E5	24' < 34'	C6.5							
25'-40'	F 5	34'-40'	C3.5							
	C17F. E1	LINITATEC								
. 0.51		UNLIMITED	D10							
≥0.5′ < 8′	C6.5	≥0.5′ < 14′	B10							
8' < 14'	D7	14' < 24'	B5.5							
14' < 25'	E5	24' < 34'	C6.5							
25'-40'	F5	34'-40'	C3.5							

SHORT	Γ-WAY	LONG-WAY								
		1								
SLAB DEPTH	SCHEDULE (Bars A)	SLAB DEPTH	SCHEDULE (Bars B)							
	SIZE: 6' x 6'									
≥0.5′ < 13′	C6.5	≥0.5′ < 10′	C3.5							
13' < 23'	D7	10' < 18'	D4.5							
23'-40'	E5	18' < 27'	E5							
		27' < 33'	E3							
		33'-40'	F5							
0.51 . 01		6' x 7'	66.5							
≥0.5' < 8'	C6.5	≥0.5' < 8'	C6.5							
8' < 16'	D7	8' < 12'	C3.5							
16' < 28'	E5	12' < 21'	D4.5							
28'-40'	F5	21' < 28'	E5							
		28' < 35'	E3							
		35'-40'	F5							
	SIZE:	6' x 8'								
≥0.5′ < 6′	C6.5	≥0.5′ < 6′	B5.5							
6' < 13'	D7	6' < 11'	C6.5							
13' < 22'	E5	11' < 17'	C3.5							
22' < 35'	F 5	17' < 22'	D4.5							
35'-40'	G5	22' < 32'	E5							
		32'-40'	E3							
	SIZE:	6' x 9'								
≥0.5' < 8'	D7	≥0.5′ < 8′	B5.5							
8' < 14'	E5	8' < 14'	C6.5							
14' < 24'	F5	14' < 21'	C3.5							
24'-34'	G5	21' < 25'	D4.5							
2,3,	03	25'-34'	E5							
		23 31	2.5							
	SIZE: 6' x	UNLIMITED								
≥0.5′ < 8′	D7	≥0.5′ < 8′	B5.5							
8' < 14'	E5	8' < 14'	C6.5							
14' < 24'	F5	14' < 21'	C3.5							
24'-34'	G5	21' < 25'	D4.5							
		25'-34'	E5							
		7' x 7'								
≥0.5′ < 8′	C6.5	≥0.5′ < 4′	C6.5							
8' < 15'	D7	4' < 7'	C3.5							
15' < 26'	E5	7' < 11'	D4.5							
26'-40'	F5	11' < 22'	E3							
		22' < 32'	F3.5							
		32'-40'	G3.5							
	SIZE:	7' x 8'								
≥0.5′ < 5′	C6.5	≥0.5′ < 5′	C6.5							
5' < 11'	D7	5' < 8'	C3.5							
11' < 19'	E5	8' < 13'	D4.5							
19' < 30'	F 5	13' < 22'	E3							
30'-40'	G5	22' < 30'	F3.5							
		30'-40'	G3.5							
	SIZE:	7' x 9'								
≥0.5′ < 9′	D7	≥0.5′ < 7′	C6.5							
9' < 15'	D7 E5	7' < 10'	C3.5							
9' < 15' 15' < 25'	E5 F5	7' < 10' 10' < 14'								
9' < 15'	E5	7' < 10'	C3.5							
9' < 15' 15' < 25'	E5 F5	7' < 10' 10' < 14'	C3.5 D4.5							

SHORT	-WAY	LONG-WAY							
SLAB DEPTH	SCHEDULE (Bars A)	SLAB DEPTH	SCHEDULE (Bars B)						
SIZE: 8' × 8'									
≥0.5′ < 10′	D7	≥0.5' < 9'	D4.5						
10' < 19'	E5	9' < 13'	E5						
19'-30'	F 5	13' < 18'	F5						
		18' < 23'	F3.5						
		23'-30'	G3.5						
	SIZE:	8' x 9'							
≥0.5′ < 8′	D7	≥0.5′ < 7′	D7						
8' < 14'	E5	7' < 9'	D4.5						
14' < 23'	F5	9' < 15'	E3						
23'-31'	G3.5	15' < 20'	F5						
		20' < 23'	F3.5						
		23'-31'	G3.5						
	SIZE:	9' x 9'							
≥0.5′ < 8′	D7	≥0.5′ < 7′	D4						
8' < 14'	E5	7' < 10'	E5						
14' < 22'	F5	10' < 17'	F3.5						
		17' < 22'	G3.5						
SIZ	ZE: 9'x9'x10"	SLAB THICKN	IESS						
22' < 36'	F5	22' < 31'	F3.5						
36'-40'	G5	31'-40'	G3.5						
SIZ	E: 10'x10'x10"	SLAB THICK	NESS						
≥0.5′ < 7′	C6.5	0.5' < 6'	C6.5						
7' < 10'	D7	6' < 9'	D4.5						
10' < 18'	E5	9' < 15'	E5						
18' < 27'	F5	15' < 22'	F5						
27'-32'	G5	22'-32'	G3.5						
		SLAB THICK	NESS						
≥0.5′ < 10′	D7	≥0.5′ < 8′	D7						
10' < 16'	E5	8' < 14'	E5						
16' < 25'	F5	14' < 22'	F5						
25'-35'	G5	22' < 30'	G5						
		30'-35'	H4						

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. Wall depth is measured to the top of the bottom slab for boxes and to the top of the intermediate slab for risers.
- 6. 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'.

SLAB DESIGNS - ROUND STRUCTURES (TABLE 7)

SLAB DEPTH	SLAB	REINF. (2-WAY)							
DEPTH	THICKNESS	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							
SIZI	E: 5'-0" DIAMET								
≥0.5′ < 15′	8"	B5.5							
15' < 26'	8"	C6.5							
26' < 35'	8"	D7							
35'-40'	8"	D4.5							
SIZI	E: 6'-0" DIAMET	TER							
≥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							
SIZI	E: 7'-0" DIAMET	TER							
≥0.5′ < 8′	8"	C3.5							
8' < 16'	8"	D4.5							
16' < 23'	8"	E5							
23' < 27'	8"	E3							
27'-40'	8"	F3.5							
SIZI	E: 8'-0" DIAMET	TER							
≥0.5′ < 10′	8"	D4.5							
10' < 16'	8"	E5							
16' < 19'	8"	E3							
19' < 29'	8"	F3.5							
29'-40'	10"	F5							
	: 10'-0" DIAME								
≥0.5' < 12'	10"	D4.5							
12' < 20'	10"	E5							
20' < 28'	10"	F5							
28'-40'	10"	G3.5							
	: 12'-0" DIAME								
≥0.5′ < 8′	10"	D4.5							
8' < 13'	10"	E5							
13' < 18'	10"	F5							
18' < 26'	10"	G3.5							
26'-40'	12"	G3.5							

- 7. Wall lengths exceeding 6'-0" require two layers of reinforcing (See Table 8) with 2" of cover from the horizontal bars to the inside and outside faces for each layer.
- 8. Wall lengths exceeding the dimensions or depths shown in Table 8, or 12'-0" diameter require a special design.
- 9. Wall thickness and reinforcing for rectangular structures is the same for both long and short sides.
- 10. 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 201, Sheet 4 for allowable bar spacing adjustments when larger areas of reinforcing are substituted.



200

HORIZONTAL

REINFORCING

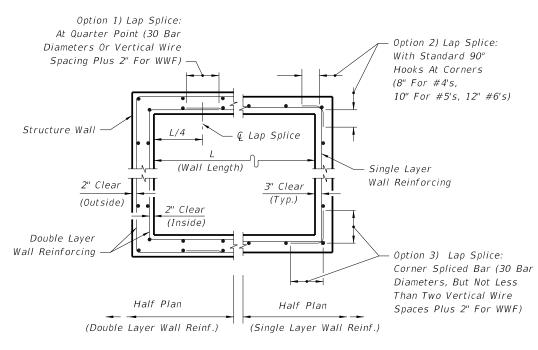
VERTICAL

REINFORCING

VER REINF	TICAL ORCII		HORI. REINF			WALL ICKNESS				
WALL DEPTH	SCHEDULE		WALL DEPTH	SCHI	EDULE	THI				
	SIZE: 10'-0" (Precast Only)									
	Inside	Outside		Inside	Outside					
26' - 40'	D7	D7	26' - 40'	F 5	F5	9"				
SIZE: 12'-0"										
	Inside	Outside		Inside	Outside					
≥1.17′ < 14′	B10	B10	≥1.17′ < 10′	C6.5	C6.5	10"				
14' < 25'	C6.5	C6.5	10' < 17'	D7	D7	10"				
25' - 40'	D7	D7	17' < 24'	E5	E5	10"				
			24' - 40'	F 5	F5	10"				
	SIZ	ZE: 12'-	-0" (Precast	Only)						
	Inside	Outside		Inside	Outside					
≥1.17' < 12'	B10	B10	≥1.17' < 10'	D7	D7	9"				
12' < 24'	C6.5	C6.5	10' < 17'	D4.5	D4.5	9"				
24' - 40'	D7	D7	17' < 23'	E5	E5	9"				
			23' < 32'	F5	F5	9"				
			32' - 40'	G5	G5	9"				
		SI	ZE: 16'-0"							
	Inside	Outside		Inside	Outside					
≥1.17' < 11'	C6.5	C6.5	≥1.17′ < 13′	D7	D7	10"				
11' < 20'	D7	D7	13' < 20'	E5	E5	10"				
20' < 28'	E5	E5	20' < 28'	F 5	F5	10"				
28' - 40'	F5	F5	28' - 40'	G5	G5	10"				
	SIZ	ZE: 16'-	-0" (Precast	Only)						
	Inside	Outside		Inside	Outside					
≥1.17' < 10'	C6.5	C6.5	≥1.17' < 9'	D7	D7	9"				
10' < 18'	D7	D7	9' < 13'	D4.5	D4.5	9"				
18' < 25'	E5	E5	13' < 19'	E5	E5	9"				
25' - 35'	F5	F5	19' < 27'	F5	F5	9"				
			27' - 35'	G5	G5	9"				
		SI	ZE: 20'-0"							
	Inside	Outside		Inside	Outside					
≥1.17' < 10'	C6.5	C6.5	≥1.17′ < 8′	D7	D7	10"				
10' < 17'	D7	D7	8' < 12'	E5	E5	10"				
17' - 30'	E5	E5	12' < 20'	F 5	F5	10"				
			20' - 30'	G5	G5	10"				
	SIZ	ZE: 20'-	-0" (Precast	Only)						
	Inside	Outside		Inside	Outside					
≥1.17′ < 8′	C6.5	C6.5	≥1.17′ < 8′	D4.5	D4.5	9"				
8' < 13'	D7	D7	8' < 12'	E5	E5	9"				
13' - 25'	E5	E5	12' < 19'	F5	F5	9"				
-			19' - 25'	G5	G5	9"				

REINFORCING SCHEDULE								
GRADE 60 BARS OR 65 KSI & 70 KSI WELDED WIRE REINFORCING								
COLLEBINE	GRADE 60	MAX	KIMUM SPA	CING				
SCHEDULE	AREA	GR 60	WWR EQU	IV. AREA*				
	(in.²/ft.)	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	$6\frac{1}{2}$	6	5				
C3.5	0.37	31/2	3	21/2				
D7	0.53	7	6	5				
D4.5	0.53	$4\frac{1}{2}$	4	31/2				
E5	0.73	5	4	4				
E3	0.73	3	3	3				
F5	1.06	5	4	4				
F3.5	1.06	31/2	3	3				
G5	1.45	5	4	4				
G.3.5	1.45	31/2	3	3				
H4	1.75	4	3	3				

^{*}Equivalent Area Welded Wire Reinforcing may be substituted in accordance with Index No. 201, Sheet 4.



WALL REINFORCING SPLICE DETAILS (ALTERNATE B)

LAST REVISION 01/01/12

≥ DESCRIPTION:

