

SECTION A-A (ALTERNATE A)

SECTION B-B
(ALTERNATE B)

TYPICAL SLAB TO WALL DETAILS
FOR PRECAST STRUCTURES

4" Min Revond Inside Face of

Structure Wall For All Bar Sizes \_\_

LAST REVISION 01/01/10



Extend Top and Bottom Slabs To Achieve Minimum Rebar

Embedment Beyond Inside Face

IAST

REVISION

01/01/09

# ROUND STRUCTURE BOTTOMS (ALTERNATE A) & ROUND RISERS- TABLE 1 Wall Thickness (t: & t2) and Vertical & Horizontal Areas of Reinforcement (As)

		Cast-In-Place Items Class II Concrete			Precast Items						
Туре	   Structure/Riser				Clas	ss II Cor	ASTM C478				
	Diameter (ft)	t <sub>1</sub>	t <sub>2</sub>	As	t <sub>1</sub>	t <sub>2</sub>	As	t1 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	-	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		

#### 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								
	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 ASTM A615/A615M Grade 60 steel, deformed bar. Equivalent area Grade 40 steel or equivalent area ASTM A185 (smooth) or ASTM A497 (deformed) welded wire fabric 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, keyed 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.

SHEET

NO.

PER SIDE									
	RECTANG	ULAR	ROUND						
PIPE	Side Dimens	sion (L)	Diamet	er (D)					
SIZE	Single Pipe	Note	Single Pipe	2 to 4					
SIZL	Per Side		or	Pipes					
	Per Side	Number	θ=180°	θ=90°					
18"	3'-6"		3'-6"	4'-0''					
24"	3'-6"		3'-6"	5'-0"					
30"	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
- 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										
REC	RECTANGULAR STRUCTURE BOTTOMS									
PIPE	PIPE	MINIMUM	I 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:

DESCRIPTION:

- 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.

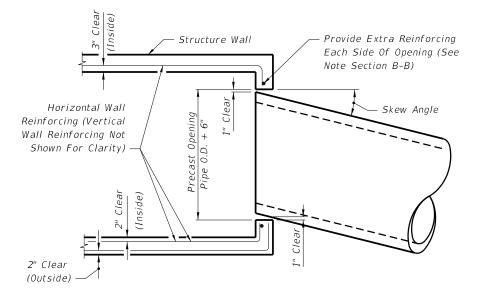
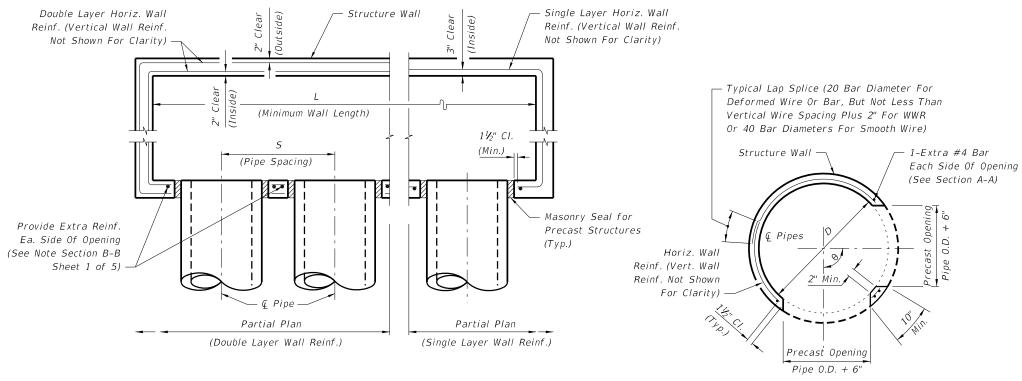


	TABLE 5 - MAXIMUM PIPE SKEW FOR PRECAST ROUND OPENINGS												
	WALL		PIPE SIZE										
	THICKNESS	18"	24"	30"	36"	42"	48"	54"	60"	66"	72"	78"	84"
MAXIMUM	8"	19°	19° 17° 16° 16° 15° 14° 14° 13° 13° 13° 12° 12°										
SKEW ANGLE	6"	21°	20°	18°	17°	17°	16°	15°	15°	14°	14°	13°	13°

#### 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

FDOT DESIGN STANDARDS 2013

LAST

REVISION

07/01/09

DESCRIPTION:

SHORT	T-WAY	LONG-WAY								
SLAB	SCHEDULE	SLAB	SCHEDULE							
DEPTH	(Bars A)	DEPTH	(Bars B)							
	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: 4' × UNLIMITED										
≥0.5′ < 7′	B5.5	≥0.5′ < 15′	B10							
7' < 19'	C6.5	15' < 29'	B5.5							
19' < 31'	D7	29'-40'	C6.5							
31'-40'	E5									
	6775	<i>[</i>								
0.51		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							
		5' x 6'								
≥0.5′ < 12′	C6.5	≥0.5′ < 3′	C6.5							
12' < 26'	D7	3' < 9'	B5.5							
26'-40'	E5	9' < 23'	C3.5							
		23' < 35'	D4.5							
		35'-40'	E5							
		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									
	C17F:	F: V 0'								
		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							
	SIZE:	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'	F5	34'-40'	C3.5							
	SIZE: 5' ×	UNLIMITED								
≥0.5′ < 8′	C6.5	≥0.5' < 14'	B10							
≥0.5 < 8 8' < 14'	D7	20.5 < 14 14' < 24'	B5.5							
0 < 14 14' < 25'	E5	24' < 34'	C6.5							
25'-40'	F5	34'-40'	C3.5							
23-40	1 2	J4 -40	(3,3							

SHORT	Γ-WAY	LONG-WAY									
		21.12									
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								
	CI7E.	6' x 7'									
≥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'	F5	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								
24-34	05	25'-34'	E5								
		23-34	LJ								
	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								
	SIZE:	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'	E5	7' < 10'	C3.5								
15' < 25'	F5	10' < 14'	D4.5								
25' - 34'	G5	14' < 21'	E5								
		21' < 29'	F 5								
		29'-34'	F3.5								

SHORT	Γ-WAY	LONG-WAY								
SLAB DEPTH	SCHEDULE (Bars A)	SLAB DEPTH	SCHEDULE (Bars B)							
SIZE: 8' x 8'										
≥0.5′ < 10′	D7	≥0.5′ < 9′	D4.5							
10' < 19'	E5	9' < 13'	E5							
19'-30'	F5	13' < 18'	F5							
		18' < 23'	F3.5							
		23'-30'	G3.5							
		01 01								
		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'	F 5	15' < 22'	F5							
27'-32'	G5	22'-32'	G3.5							
SIZ	E: 12'x12'x12"	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 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								
	E: 5'-0" DIAMET									
≥0.5' < 15'	8"	B5.5								
15' < 26'	8"	C6.5								
26' < 35'	8"	D7								
35'-40'	8"	D4.5								
	E: 6'-0" DIAMET									
≥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								
	E: 7'-0" DIAMET									
≥0.5' < 8'	8"	C3.5								
8' < 16'	8"	D4.5								
16' < 23'	8"	E5								
23' < 27'	8"	E3								
27'-40'	8"	F3.5								
	E: 8'-0" DIAMET									
≥0.5' < 10'	8"	D4.5								
10' < 16'	8"	E5								
16' < 19'	8"	E3								
19' < 29'	8"	F3.5								
29'-40'	10"	F5								
SIZE	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" DIAME	TER								
≥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.



HORIZONTAL

REINFORCING

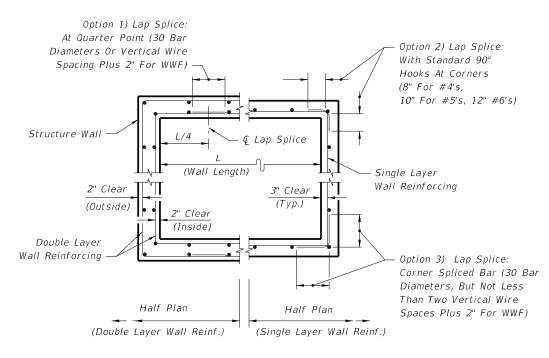
VERTICAL

REINFORCING

REINF	TICAL ORCII		HORI. REINF		<i>WALL</i> ICKNESS	
WALL DEPTH	SCHI	EDULE	WALL DEPTH	SCHI	EDULE	TH
	SIZ	ZE: 10'-	-0" (Precast	Only)		
	Inside	Outside		Inside	Outside	
26' - 40'	D7	D7	26' - 40'	F5	F5	9"
		SI.	ZE: 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'	F5	F5	10"
	SIZ	ZE: 12'-	-0" (Precast	Only)		
		Outside			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'	F 5	F5	9"
			32' - 40'	G5	G5	9"
		SI	ZE: 16'-0"		ı	
	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'	F 5	F 5	28' - 40'	G5	G5	10"
	SIZ	ZE: 16'-	-0" (Precast	Onlv)		
		Outside			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	F 5	19' < 27'	F 5	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'	F5	F5	10"
			20' - 30'	G5	G5	10"
	SIZ	ZE: 20'-	-0" (Precast		-5	
		Outside			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'	F 5	F5	9"
		_			_	

REINFORCING SCHEDULE								
GRADE 60 BARS OR 65 KSI & 70 KSI WELDED WIRE REINFORCING								
664455445	GRADE 60	MAX	MAXIMUM SPACING					
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	41/2				
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				

<sup>\*</sup>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:

