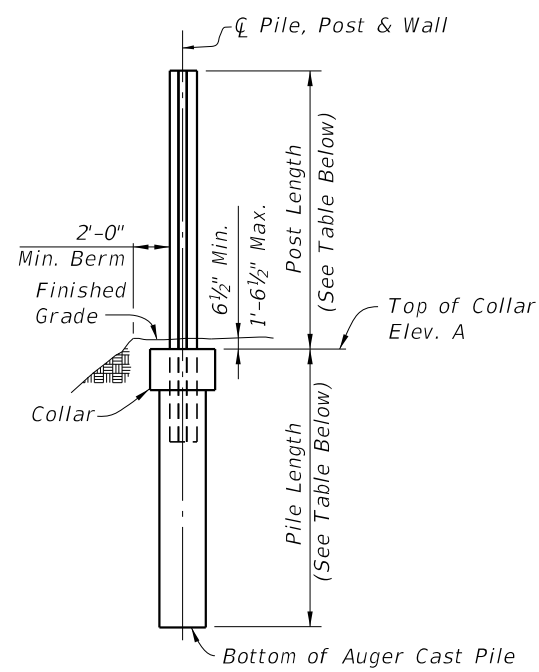


PILE/POST ELEVATION  
(Pile/Post Connection Option A Shown)



VIEW A-A  
(Pile/Post Connection Option A Shown)

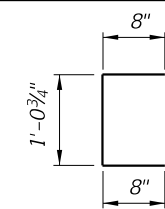
NOTES:  
 Bars A, B & P1 are used in Options A, B & E.  
 Bars C are only used in Option A.  
 Bars C2 are only used in Option B.  
 Bars P2 are used in Options A & E.  
 Bars P3 are only used in Option A.  
 Bars P4 are only used in Option B.  
 Bars P5 & P6 are only used in 90° Corner Posts.  
 Bars P7 & P8 are only used in 45° Corner Posts.  
 Bars P9 & P10 are used in the Cast-In-Place Collar Options.

For Bar Designations, See Index No. 5205.

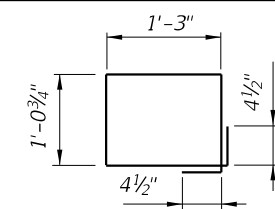
**BAR BENDING DETAILS**

All bar dimensions in bending diagrams are out-to-out. All bars not shown in the bending diagrams are straight.

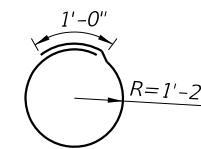
**POST & PILE**



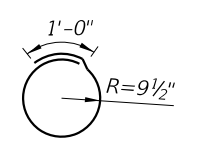
BAR P1  
Bar Length = 2'-5"



BAR P2  
Bar Length = 5'-5"

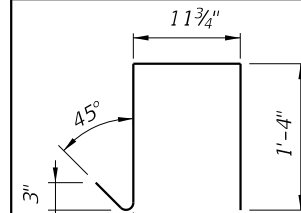


BAR P3  
Bar Length = 8'-4"

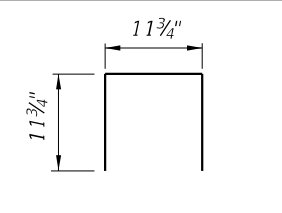


BAR P4  
Bar Length = 6'-0"

**90° CORNER POST & PILE**

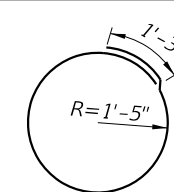


BAR P5  
Bar Length = 4'-0"

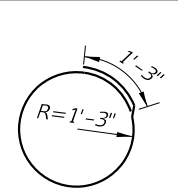


BAR P6  
Bar Length = 2'-11 1/4"

**CAST-IN-PLACE COLLAR**

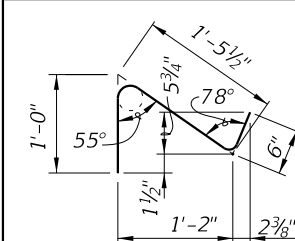


BAR P9  
Bar Length = 10'-2"

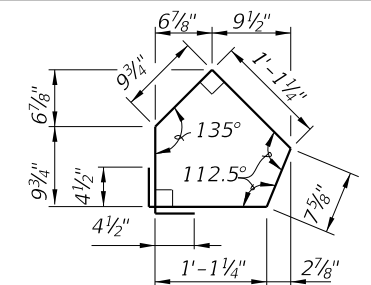


BAR P10  
Bar Length = 9'-2"

**45° CORNER POST & PILE**



BAR P7 (POST)  
Bar Length = 2'-8"



BAR P8 (PILE)  
Bar Length = 5'-0 1/4"

TABLE 1 - FOUNDATIONS FOR MEDIUM DENSE GRANULAR SOILS (Soil SPT N<sub>60</sub> Values between 10 and 40)

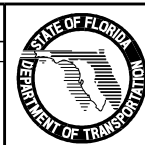
POST AND PILE DIMENSIONS							TABLE OF REINFORCING STEEL												
WALL TYPE	POST LENGTH WITHOUT CAP	POST LENGTH WITH CAP	PILE LENGTH OPTION A		PILE LENGTH OPTIONS B, C, D & E		PILE/POST REINFORCING										CAST-IN-PLACE COLLAR		
			10'-0" POST SPACING	20'-0" POST SPACING	10'-0" POST SPACING	20'-0" POST SPACING	10'-0" POST SPACING				20'-0" POST SPACING			BARS C	BARS C2	BARS P1, P2, P3, P4, P5, P6, P7 & P8	BARS P9	BARS P10	
							BARS A	BARS B		BARS D	BARS A	BARS B							BARS D
SIZE	SIZE	DIM 'A'	SIZE	SIZE	SIZE	SIZE	SIZE	SIZE	SIZE	SIZE	SIZE	SIZE	SIZE	SIZE	SIZE	SIZE	SIZE	SIZE	
A	12'-0 1/2"	12'-2 1/2"	11'-0"	14'-0"	12'-0"	15'-0"	#4	#4	10'-0"	#4	#5	#5	9'-0"	#6	#9	#7	#4	#5	#5
B	13'-0 1/2"	13'-2 1/2"	11'-0"	15'-0"	12'-0"	16'-0"	#4	#4	10'-7"	#5	#5	#5	8'-10"	#7	#9	#7	#4	#5	#5
C	14'-0 1/2"	14'-2 1/2"	12'-0"	16'-0"	13'-0"	17'-0"	#4	#4	10'-5"	#5	#6	#6	10'-4"	#7	#9	#7	#4	#5	#5
D	15'-0 1/2"	15'-2 1/2"	12'-0"	17'-0"	13'-0"	18'-0"	#5	#5	12'-11"	#6	#6	#6	10'-3"	#8	#9	#7	#4	#5	#5
E	16'-0 1/2"	16'-2 1/2"	13'-0"	17'-0"	14'-0"	18'-0"	#5	#5	12'-9"	#6	#7	#7	11'-10"	#8	#9	#7	#4	#5	#5
F	17'-0 1/2"	17'-2 1/2"	14'-0"	18'-0"	14'-0"	19'-0"	#5	#5	12'-7"	#6	#7	#7	11'-8"	#9	#9	#7	#4	#5	#5
G	18'-0 1/2"	18'-2 1/2"	14'-0"	19'-0"	15'-0"	20'-0"	#6	#6	14'-11"	#7	#8	#8	13'-1"	#10	#9	#7	#4	#5	#5
H	19'-0 1/2"	19'-2 1/2"	15'-0"	20'-0"	15'-0"	21'-0"	#6	#6	14'-10"	#7	#8	#8	13'-0"	#10	#9	#7	#4	#5	#5
I	20'-0 1/2"	20'-2 1/2"	15'-0"	21'-0"	16'-0"	22'-0"	#6	#6	14'-9"	#8	#9	#9	14'-3"	#11	#9	#7	#4	#5	#5
J	21'-0 1/2"	21'-2 1/2"	16'-0"	22'-0"	16'-0"	24'-0"	#6	#6	14'-8"	#8	#9	#9	14'-2"	#11	#9	#7	#4	#5	#5
K	22'-0 1/2"	22'-2 1/2"	16'-0"	23'-0"	17'-0"	26'-0" *	#7	#7	17'-1"	#8	#9	#9	14'-1"	2~ #14 1 ~ #9	#9	#7	#4	#5	#5

\* For Steel Post Option "D", use 30'-0".

NOTE: USE THIS INDEX ONLY WHEN SOIL SPT N VALUES ARE BETWEEN 10 AND 40

**REVISIONS**

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
01/01/10	CMH	Changed Bar P3 radius. Changed Bars P5 & P6.			
07/01/10	CMH	Added table title and renumbered sheet.			



2010 Interim Design Standard

**PRECAST SOUND BARRIERS -  
PILE DEPTH AND REINFORCING SUMMARY**


Interim Date: 07/01/10  
 Sheet No.: 1 of 2  
 Index No.: 5206

TABLE 2 - FOUNDATIONS FOR LOOSE GRANULAR SOILS (SPT N<sub>60</sub> Values between 4 and 9)

POST AND PILE DIMENSIONS							TABLE OF REINFORCING STEEL												
WALL TYPE	POST LENGTH WITHOUT CAP	POST LENGTH WITH CAP	PILE LENGTH OPTION A		PILE LENGTH OPTIONS B, C, D & E		PILE/POST REINFORCING										CAST-IN-PLACE COLLAR		
			10'-0" POST SPACING	20'-0" POST SPACING	10'-0" POST SPACING	20'-0" POST SPACING	10'-0" POST SPACING			20'-0" POST SPACING			BARS C	BARS C2	BARS P1, P2, P3, P4, P5, P6, P7 & P8	BARS P9	BARS P10		
							BARS A	BARS B		BARS D	BARS A	BARS B						BARS D	
							SIZE	SIZE	DIM 'A'	SIZE	SIZE	SIZE						DIM 'A'	SIZE
A	12'-0 1/2"	12'-2 1/2"	12'-0"	17'-0"	13'-0"	17'-0"	#4	#4	10'-0"	#4	#5	#5	9'-0"	#6	#9	#7	#4	#5	#5
B	13'-0 1/2"	13'-2 1/2"	13'-0"	17'-0"	14'-0"	18'-0"	#4	#4	10'-7"	#5	#5	#5	8'-10"	#7	#9	#7	#4	#5	#5
C	14'-0 1/2"	14'-2 1/2"	14'-0"	18'-0"	14'-0"	19'-0"	#4	#4	10'-5"	#5	#6	#6	10'-4"	#7	#9	#7	#4	#5	#5
D	15'-0 1/2"	15'-2 1/2"	14'-0"	19'-0"	15'-0"	20'-0"	#5	#5	12'-11"	#6	#6	#6	10'-3"	#8	#9	#7	#4	#5	#5
E	16'-0 1/2"	16'-2 1/2"	15'-0"	20'-0"	16'-0"	21'-0"	#5	#5	12'-9"	#6	#7	#7	11'-10"	#8	#9	#7	#4	#5	#5
F	17'-0 1/2"	17'-2 1/2"	16'-0"	21'-0"	16'-0"	22'-0"	#5	#5	12'-7"	#6	#7	#7	11'-8"	#9	#9	#7	#4	#5	#5
G	18'-0 1/2"	18'-2 1/2"	16'-0"	22'-0"	17'-0"	23'-0"	#6	#6	14'-11"	#7	#8	#8	13'-1"	#10	#9	#7	#4	#5	#5
H	19'-0 1/2"	19'-2 1/2"	17'-0"	23'-0"	18'-0"	25'-0"	#6	#6	14'-10"	#7	#8	#8	13'-0"	#10	#9	#7	#4	#5	#5
I	20'-0 1/2"	20'-2 1/2"	17'-0"	24'-0"	18'-0"	26'-0"	#6	#6	14'-9"	#8	#9	#9	14'-3"	#11	#9	#7	#4	#5	#5
J	21'-0 1/2"	21'-2 1/2"	18'-0"	25'-0"	19'-0"	29'-0"	#6	#6	14'-8"	#8	#9	#9	14'-2"	#11	#9	#7	#4	#5	#5
K	22'-0 1/2"	22'-2 1/2"	18'-0"	26'-0"	19'-0"	*	#7	#7	17'-1"	#8	#9	#9	14'-1"	2~ #14 & 1 ~ #9	#9	#7	#4	#5	#5

\* Do not use for walls with 30" dia. foundations, 20' spacing, & greater than 21' high.

NOTE: USE THIS INDEX ONLY WHEN SOIL SPT N VALUES ARE BETWEEN 4 AND 9

REVISIONS				2010 Interim Design Standard				Interim Date	Sheet No.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	07/01/10		2 of 2	
07/01/10	CMH	New sheet.							
						<b>PRECAST SOUND BARRIERS - PILE DEPTH AND REINFORCING SUMMARY</b>			Index No. <b>5206</b>