NOTES

A. DESIGN SPECIFICATIONS:
1. AASHTO LRFD Specifications for Highway Bridges.
2. FDOT Structures Manual.
3. Florida Department of Transportation's Plans Preparation Manual, Volume 1.

B. CONSTRUCTION:
Meet the requirements of Standard Specification 534.

C. CONCRETE AND GROUT:
1. Concrete Class and Compressive Strength:
a. Cast-In-Place Collars: Class IV (f'c = 5500 psi)
b. Precast Panels, Collars and Post Caps: Class IV (f'c = 5500 psi)
c. Posts: Class IV (f'c = 5500 psi)
2. Grout for Auger Cast Piles:
a. Maximum Working Compressive Strength = 2200 psi
b. Minimum 28 Day Strength = 5500 psi
3. Minimum Compressive Strength for Form Removal and Handling of Posts and Panels:
a. 2,500 psi for horizontally cast post and panels.
b. 2,000 psi for vertically cast panels or when tilt-up form tables are used for horizontally cast panels.

D. REINFORCING STEEL:
1. In addition to the requirements of Specification Section 415, tie post and pile stirrups at the following locations as a minimum:
a. Post Stirrups - Tie at all four corner bars and at every third interior bar intersection.
b. Pile Stirrups - Tie to the main vertical reinforcing at alternate intersections for circular configurations and for rectangular configurations at the four corners and at every third interior bar intersection.
2. Provide 2" concrete cover unless otherwise noted.

E. SURFACE FINISHES AND AESTHETIC REQUIREMENTS:
1. See Noise Wall Data Tables in the Plans for project requirements.

F. PILING:
Construct Auger Cast Piling in accordance with the Plans and Specification Section 455.

G. UTILITIES:
Field verify the locations of all overhead and underground utilities shown in the Wall Control Drawings.

H. NEOPRENE PADS AND RESILIENT PADS:
1. Neoprene Pads for Collar Bearing Points:
Neoprene Pads shall be Fiber Reinforced Pads between Grade 50 and Grade 80 durometer hardness in accordance with Specification Section 932. Plain Pads may be substituted for Fiber Reinforced Pads when sufficient bearing area is available on the concrete collar for the following:
a. 10' post spacing: 4" x 4" x ½" Plain Pads, Grade 50 durometer hardness.
b. 20' post spacing and < 18' wall height: 4" x 4" x ½" Plain Pads, Grade 50 durometer hardness.
c. 20' post spacing and ≥ 18' wall height: 4" x 5" x ½" Plain Pads, Grade 50 durometer hardness.
2. At panel bearing points between stacked panels, bearing pads may be of either of the materials above. Minimum requirement is Grade 50 durometer hardness plain neoprene pads.

I. CASTING TOLERANCES:
1. Overall Height & Width: +/- ¼"
2. Thickness: +/- ¼"
3. Plane of side mold: +/- 1/16"
4. Openings: +/- ½"
5. Out of Square: ⅛" per 6 ft., but not more than ⅜" total along any side
6. Warping: 1/16" per foot distance to nearest corner
7. Bowing: 1/240 panel dimension
8. Surface Smoothness for Type "A" (Smooth) Surface Texture Option: +/- 1/16" along a 10 ft. straightedge.

J. NOISE WALL NOTES:
1. Post spacing is measured from centerline to centerline of auger cast piles. For this Index, post and pile spacing are designed for 10 ft and 20 ft.
2. Total height of wall ranges from a minimum of 12 ft to a maximum of 22 ft. The height of individual panels must be a maximum of 12 ft and a minimum of 6 ft, except for the following: the panel height may be a minimum 4 ft. when required due to low clearance conditions or when 8 ft. graphic panels must be accommodated in walls with total heights between 12 ft. and 14 ft.
3. Where special graphics are required, locate horizontal panel joints outside of graphics. Where possible, hold horizontal panel joints at a constant elevation.
4. Only when reduced overhead clearance between posts prohibits installation of panels from the top, side-installed panels are allowed. When flush face panels require side-installation, install panel from right of way side into H post. After panel is centered between posts, grout both ends between panel ends and post. See Sheets 4 and 5 for details.

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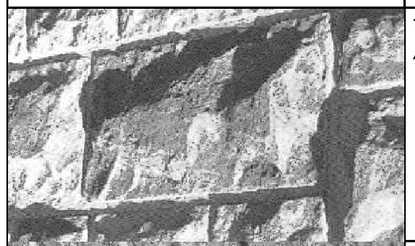
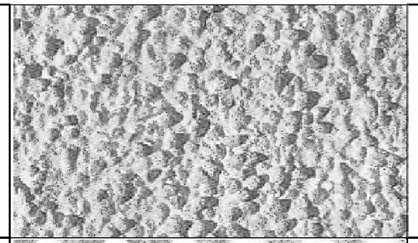
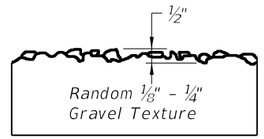
LAST REVISION	REVISION	DESCRIPTION:			INDEX NO.	SHEET NO.
07/01/13			FDOT 2014 DESIGN STANDARDS	PRECAST NOISE WALLS	5200	1 of 16



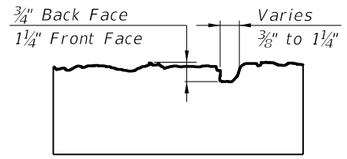
Type "A"
SMOOTH

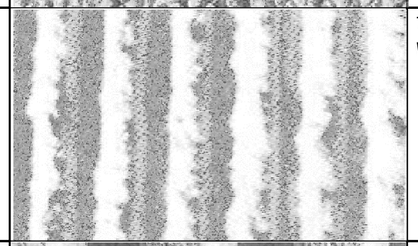


Type "F"
PEA GRAVEL

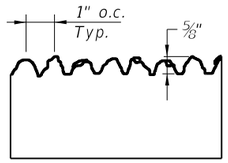


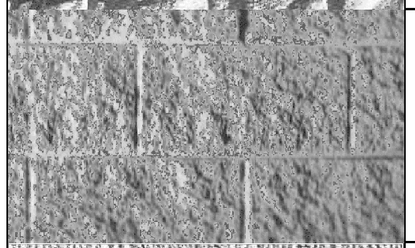
Type "B"
ASHLAR STONE



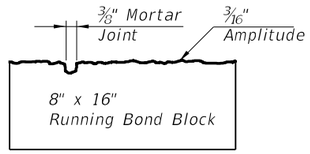


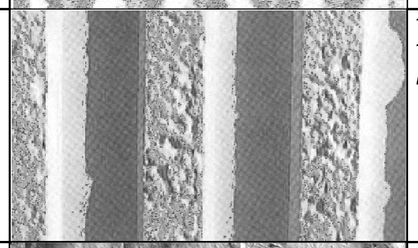
Type "G"
VERTICAL FRACTURED FIN



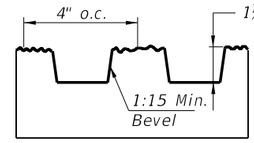


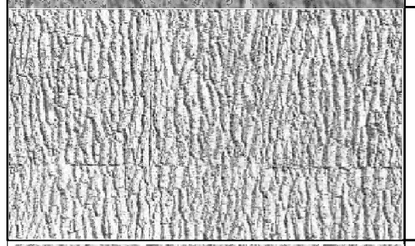
Type "C"
SPLIT FACE RUNNING BOND BLOCK



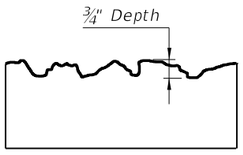


Type "H"
TRAPEZOID VERTICAL FINS W/ FRACTURED FACE (COLORADO DRAG AGGREGATE)

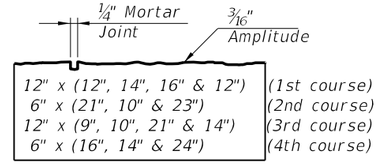


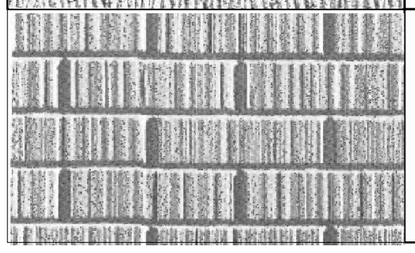


Type "D"
FRACTURED GRANITE

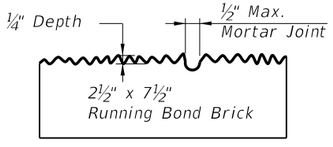


Type "I"
CUT CORAL BLOCK (RUNNING BOND)





Type "E"
WIRE-CUT BRICK



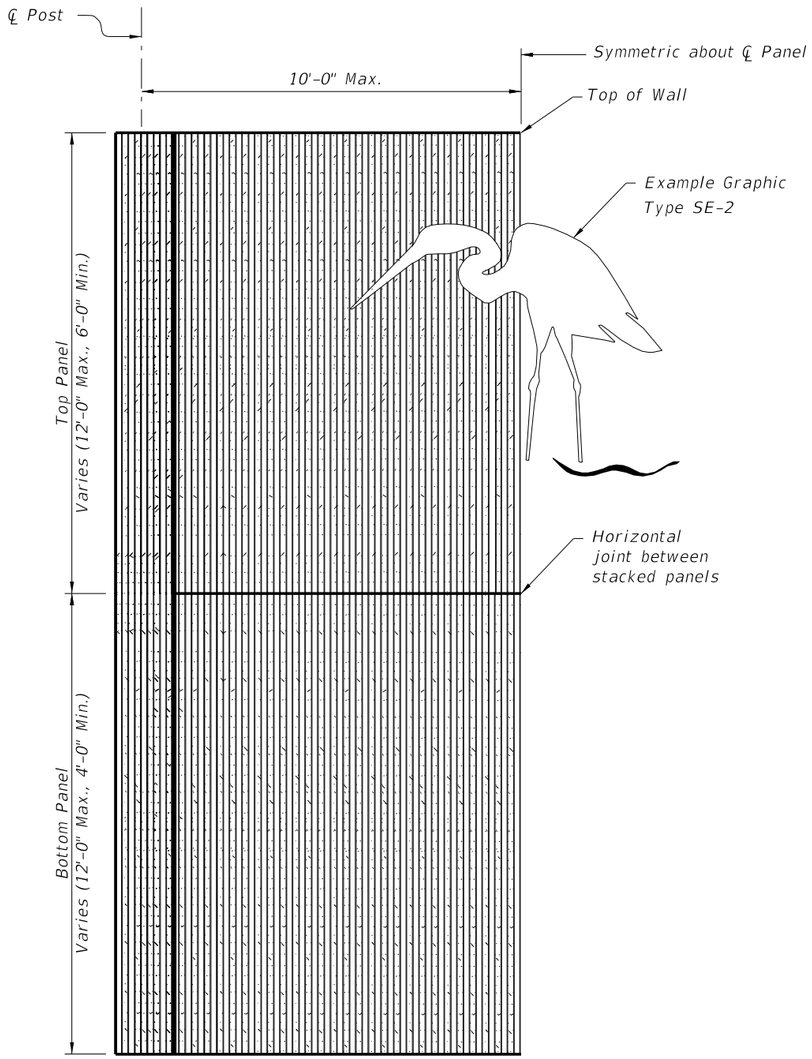
NOTES:

1. Surfaces shall be formed, rolled, or pressed using form liners in accordance with the Plans and Specifications (Class 3 Surface Finish).

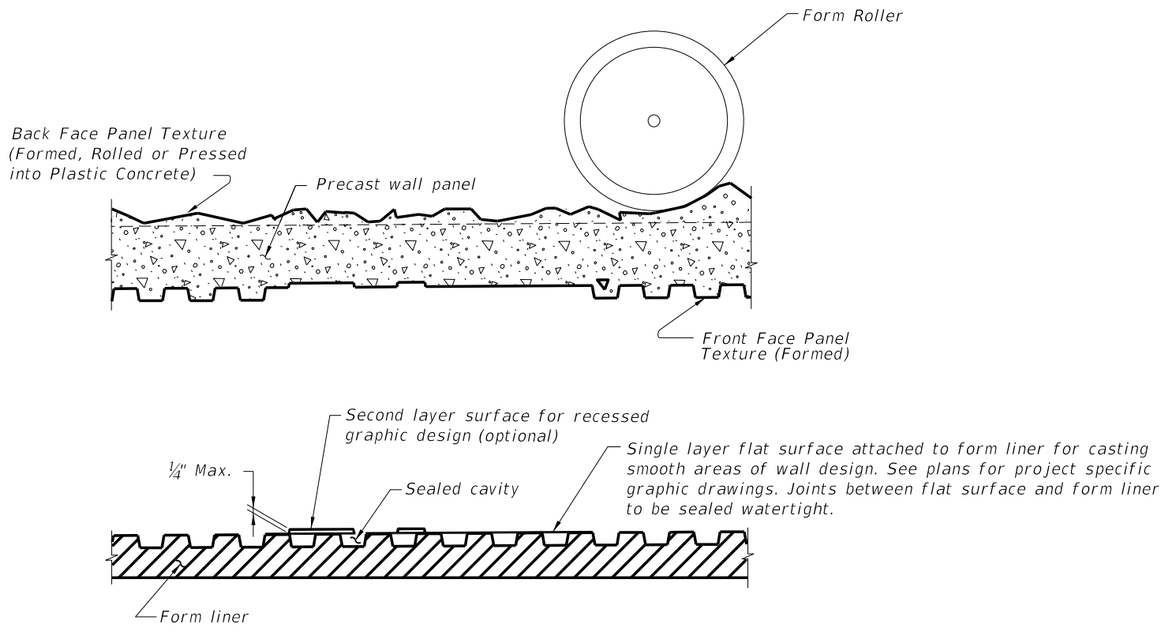
2. See Sound Barrier Data Tables for project aesthetic requirements.

TEXTURE OPTIONS

LAST REVISION	REVISION	DESCRIPTION:			INDEX NO.	SHEET NO.
01/01/12			FDOT 2014 DESIGN STANDARDS	PRECAST SOUND BARRIERS	5200	2 of 16



HALF ELEVATION
(Front Face Post and Panel Texture Type "H" shown)
(Graphic Type SE-2 shown)
(Two stacked panels shown, three stacked panels similar)



TYPICAL FORMING DETAIL
(Front Face Panel Texture Type "H" shown)
(Back Face Panel Texture Type "D" shown)
(Post Forming Details Similar)

NOTES:

1. *Submit specific form liner samples for approval by the Engineer.*
2. *Textures and graphics shown are for demonstration purposes only. See Noise Wall Data Tables in the plans for project specific texture and graphic requirements.*

GRAPHICS & TEXTURE DETAILS

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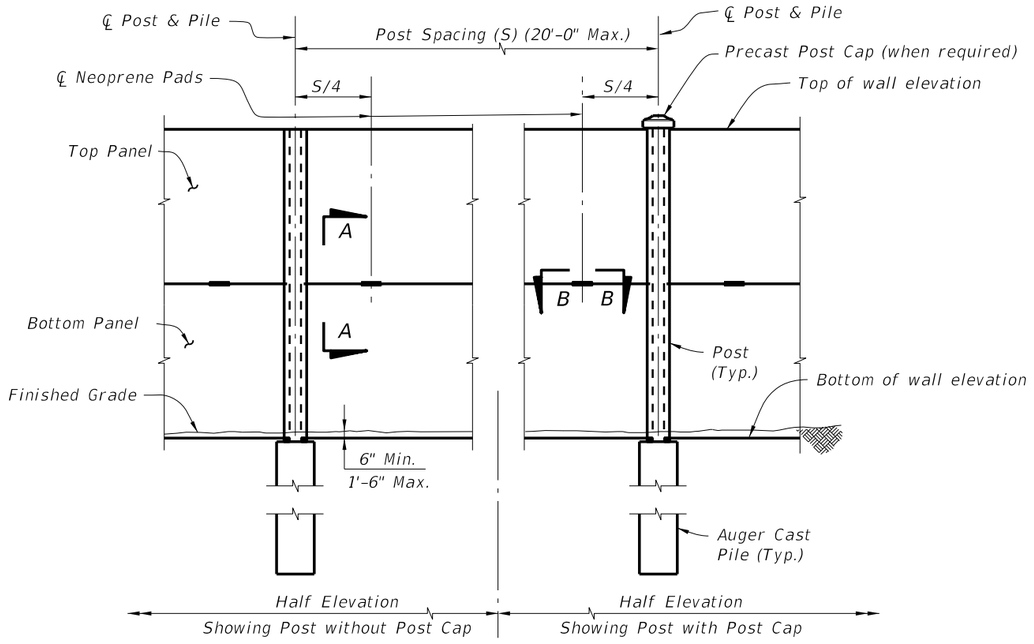
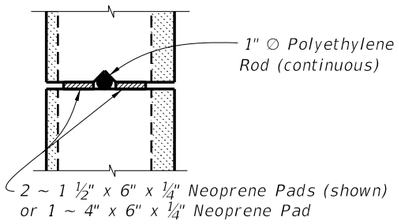
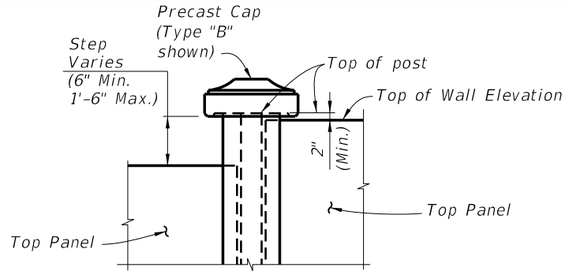
07/01/12			FDOT 2014 DESIGN STANDARDS	PRECAST NOISE WALLS	5200	3 of 16



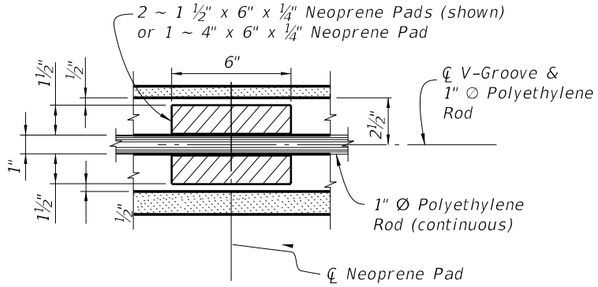
TYPICAL ELEVATION



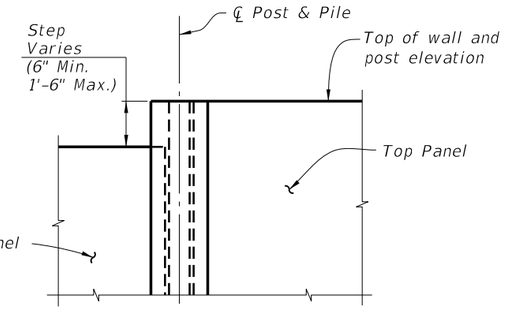
SECTION A-A



WITH POST CAP

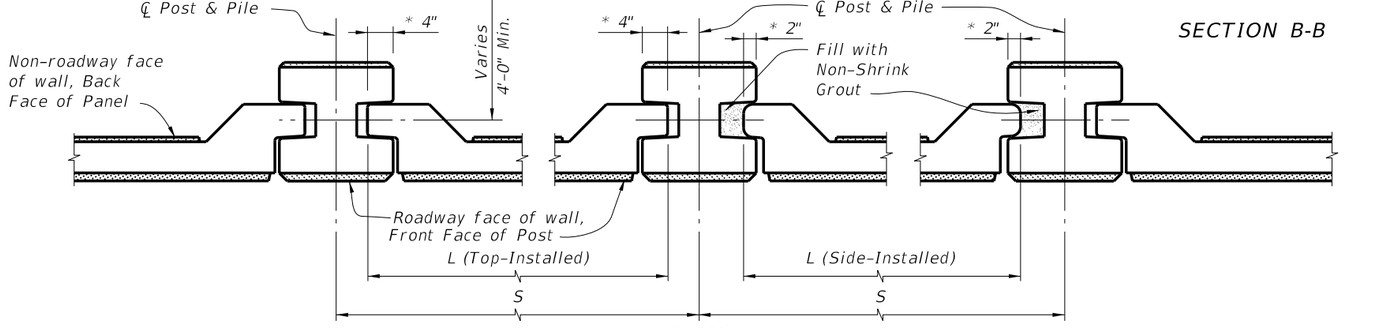


SECTION B-B

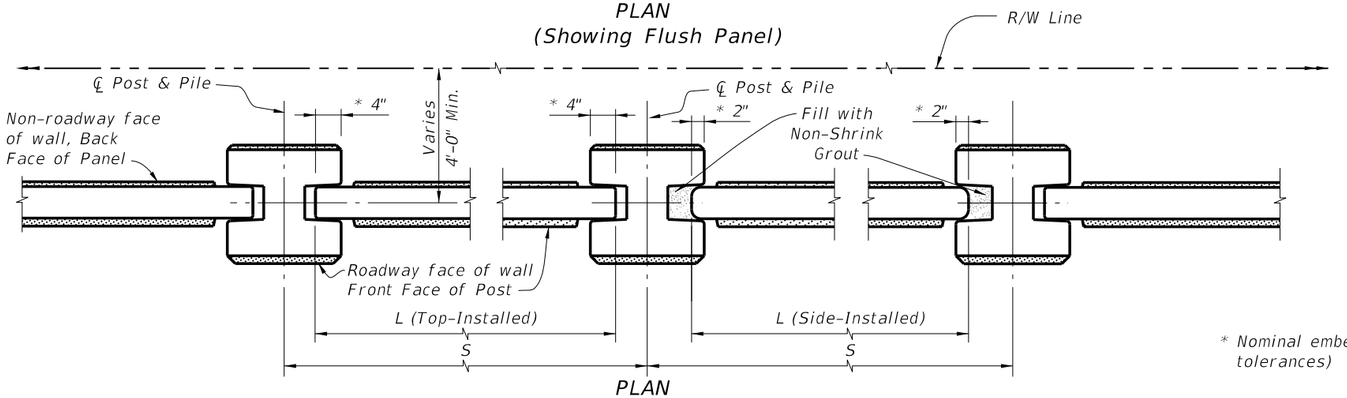


WITHOUT POST CAP

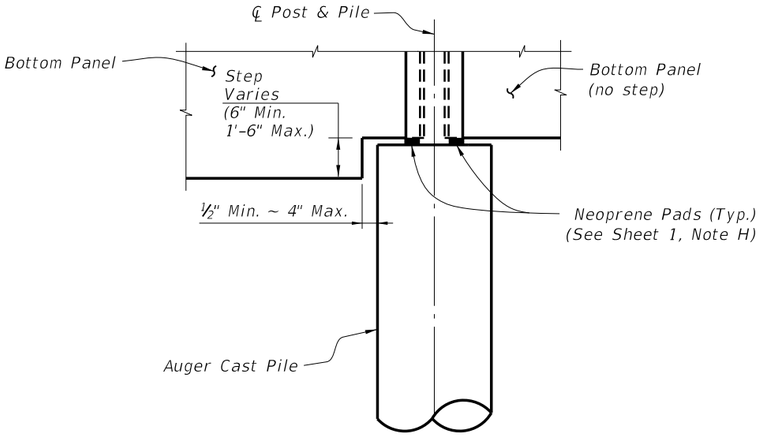
ELEVATION STEP AT TOP OF WALL



PLAN
(Showing Flush Panel)



PLAN
(Showing Recessed Panel)

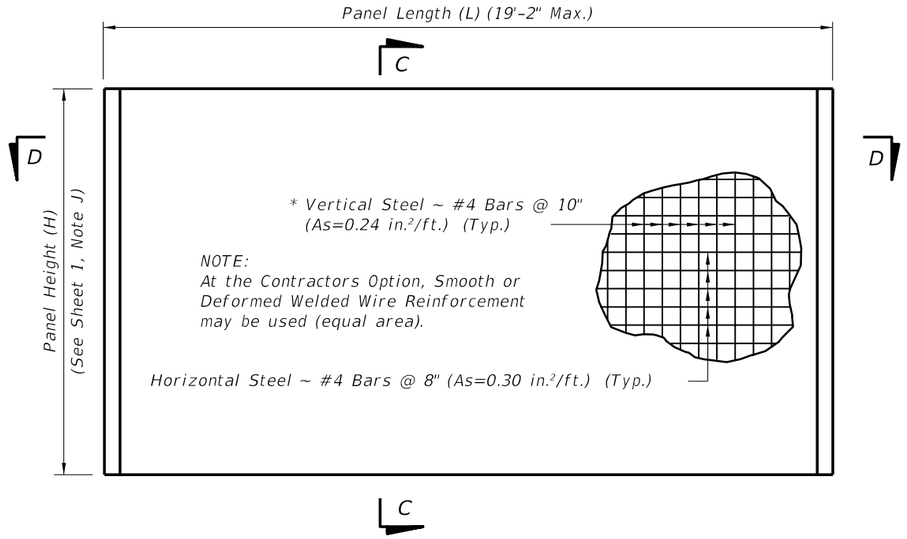


ELEVATION STEP AT BOTTOM OF WALL

* Nominal embedment (not including tolerances)

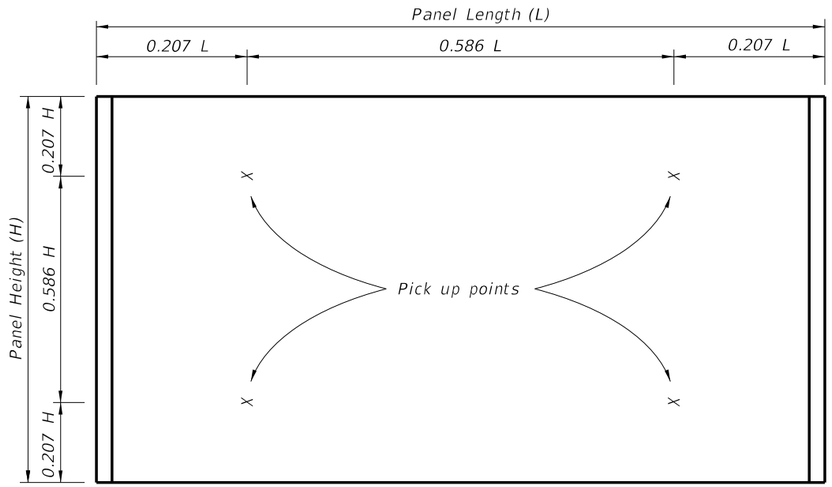
TYPICAL DETAILS

LAST REVISION	REVISION	DESCRIPTION:			INDEX NO.	SHEET NO.
07/01/13			FDOT 2014 DESIGN STANDARDS	PRECAST NOISE WALLS	5200	4 of 16

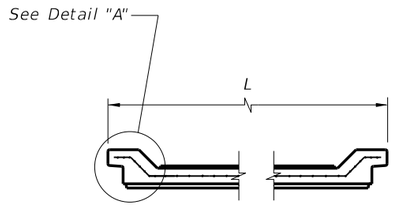


TYPICAL PANEL ELEVATION

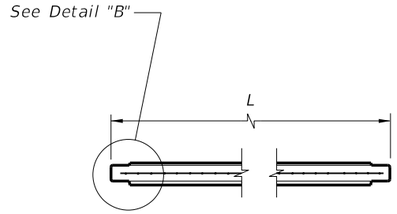
* In lieu of utilizing the standard pick up points below, panels may be cast vertically or cast horizontally then tilted upright using tilt-tables prior to lifting from form. In this case, pick points must be placed in the top of panels only and transported maintaining the vertical orientation. If these criteria are met, the vertical steel may be reduced to #4 Bars @ 1'-3" (As=0.15 in.²/ft.).



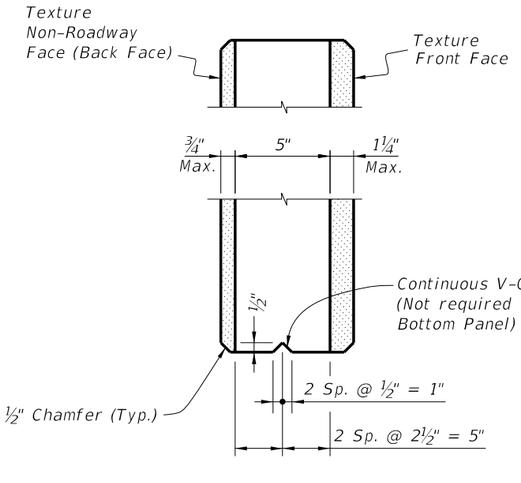
STANDARD PICK UP POINTS FOR PANELS
(Panels shall be rotated about long axis only)



SECTION D-D
(Showing Flush Panel)

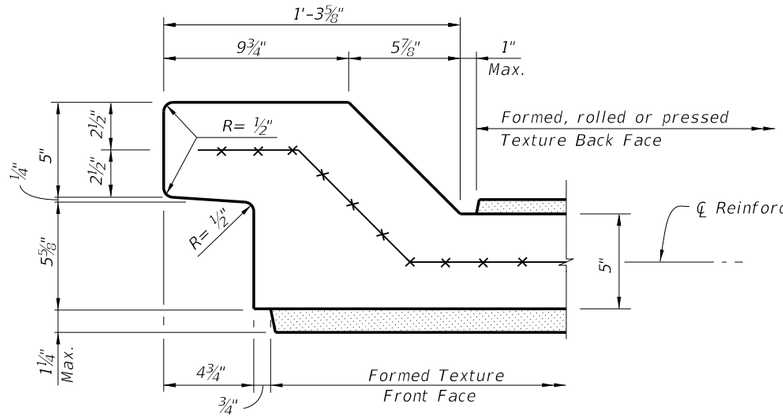


SECTION D-D
(Showing Recessed Panel)

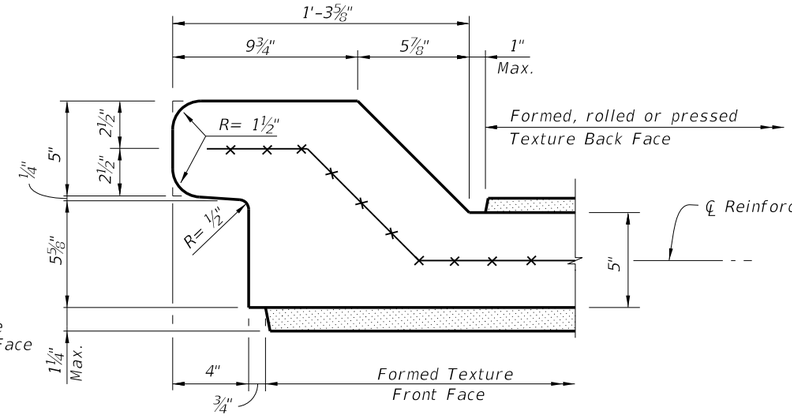


SECTION C-C

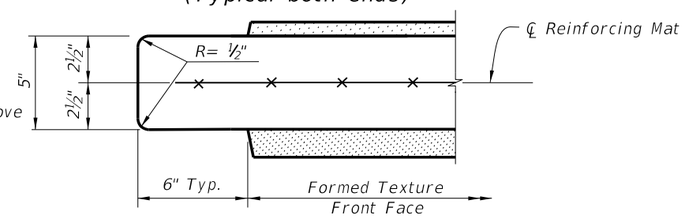
Notes:
1. See Sheet 3 for allowable methods of applying textures.
2. See plans for panel type and aesthetic requirements.
3. For equal post spacing, side-installed panel length will be shorter than top-installed length.



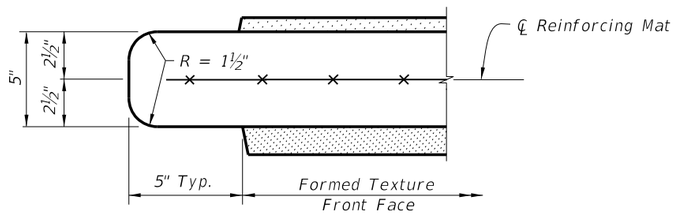
DETAIL "A" - TOP-INSTALLED
(Typical both ends)



DETAIL "A" - SIDE-INSTALLED
(Typical both ends)



DETAIL "B" - TOP-INSTALLED
(Typical both ends)



DETAIL "B" - SIDE-INSTALLED
(Typical both ends)

TYPICAL PANEL DETAILS

LAST REVISION	REVISION	DESCRIPTION:				
07/01/13			FDOT 2014 DESIGN STANDARDS	PRECAST NOISE WALLS	INDEX NO. 5200	SHEET NO. 5 of 16

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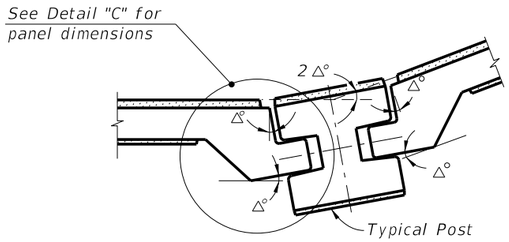
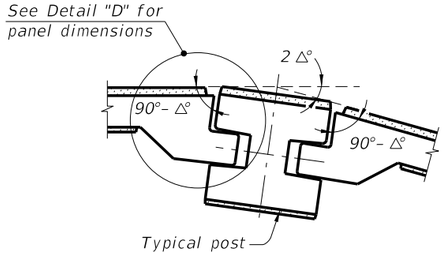
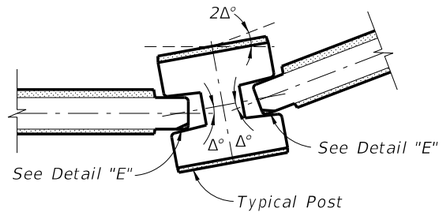


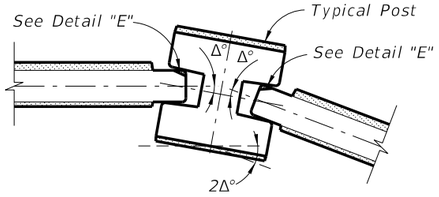
CASE 1
(Interior Angle)



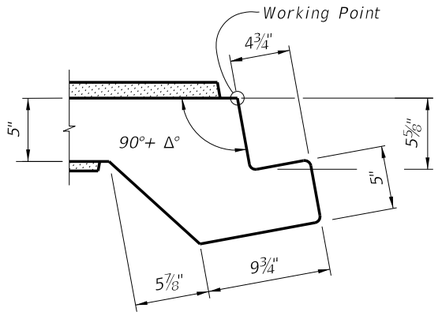
CASE 2
(Exterior Angle)



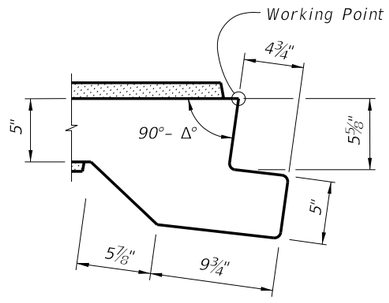
CASE 1
(Interior Angle)



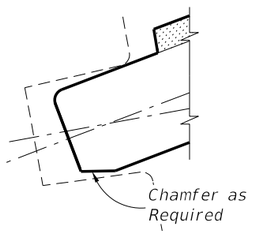
CASE 2
(Exterior Angle)



DETAIL "C"



DETAIL "D"



DETAIL "E"
(Back Face Chamfer Shown
Front Face Chamfer Similar)

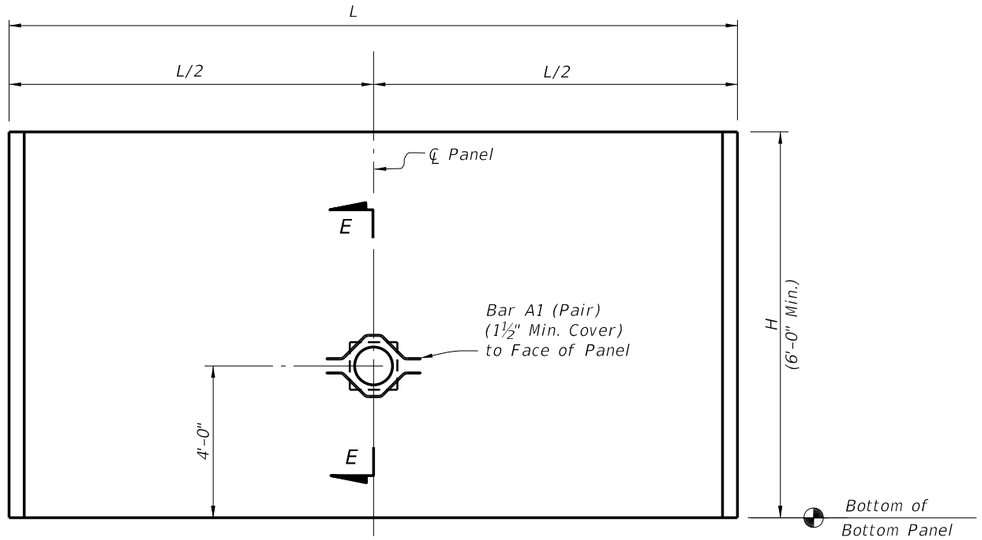
NOTE:
The shop drawings shall include specific pivoting details of panel ends at locations where the deflection angle (2Δ°) between panels exceeds 7°.

PIVOTING DETAILS
(Flush Panel)

NOTE:
The shop drawings shall include specific pivoting details of panel ends at locations where the deflection angle (2Δ°) between panels exceeds 20°.

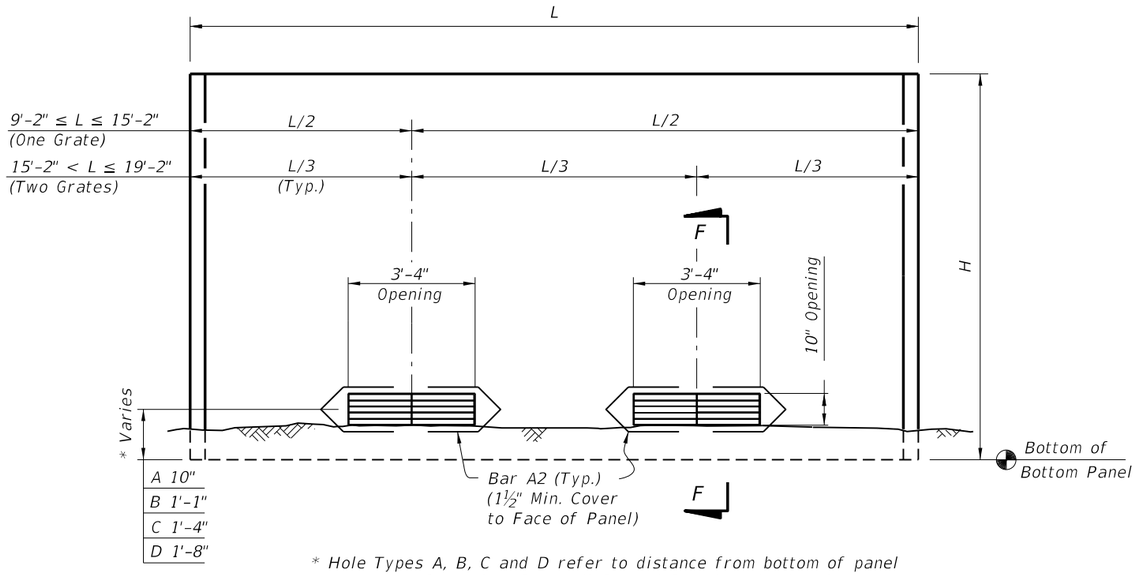
PIVOTING DETAILS
(Recessed Panel)

TYPICAL PANEL DETAILS



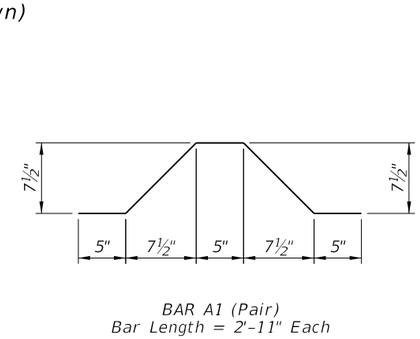
NOTE: Fire Hose Access Hole only to be located at or near fire hydrants

FIRE HOSE ACCESS HOLE TYPICAL DETAIL
(Front Face of Wall Shown)

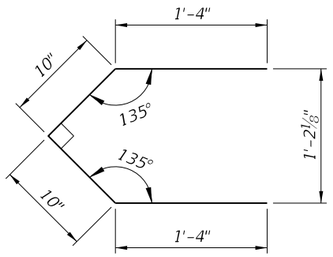


* Hole Types A, B, C and D refer to distance from bottom of panel to center of opening. See Wall Control Drawings in the plans.

DRAINAGE HOLES TYPES A, B, C & D
(Front Face of Wall Shown)
(Two Holes Shown,
One Hole Similar)

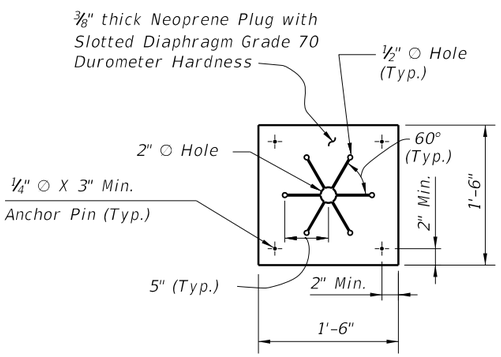


BAR A1 (Pair)
Bar Length = 2'-11" Each

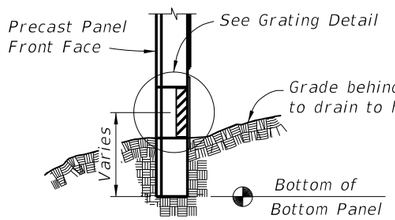


BAR A2 (Pair)
Bar Length = 4'-4"

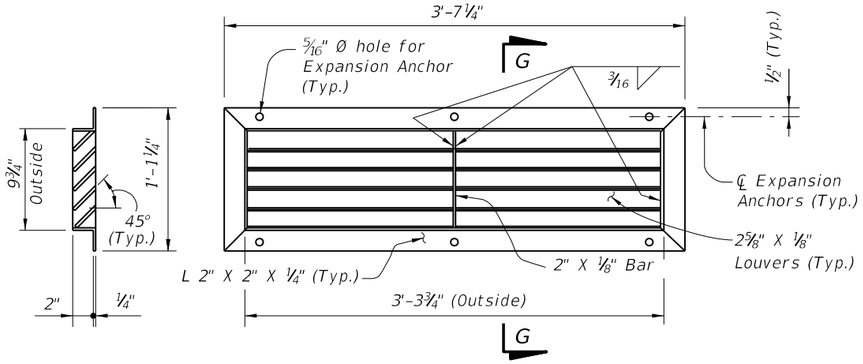
BAR BENDING DETAILS (#3 Bars)



PLUG DETAIL



SECTION F-F

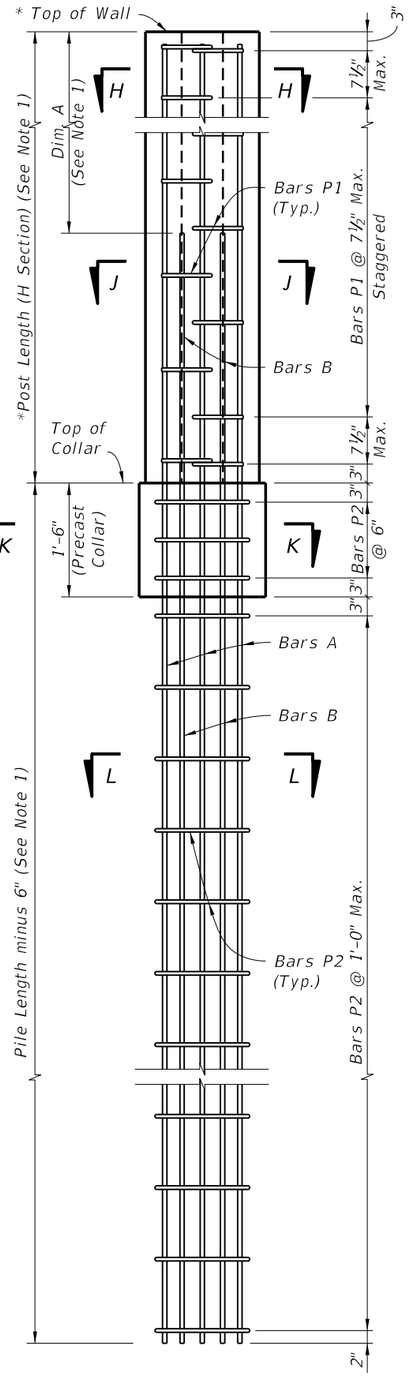


SECTION G-G

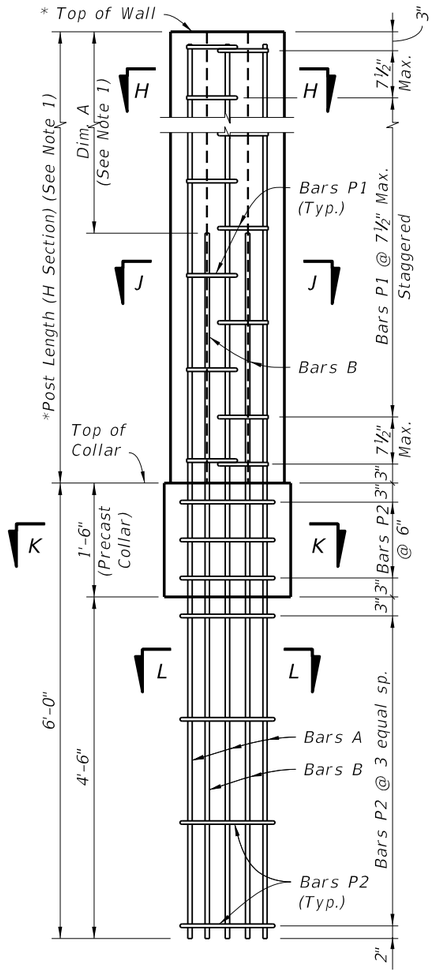
GRATING DETAIL

GRATING NOTES:
1. Grating shall be ASTM A36 steel welded in accordance with the current edition of ANSI/AWS D1.1 Steel Welding Code. Hot-dip galvanize grate after fabrication in accordance with Specification Section 962-9.
2. Expansion Anchors: Use ¼" Ø x 3" ASTM A307, vandal resistant, hot-dip galvanized expansion anchors to connect grates to panels.
3. Grating recessed with back face of wall.

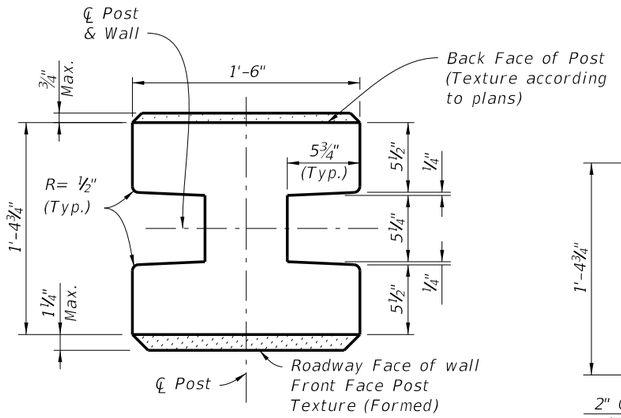
FIRE HOSE ACCESS & DRAINAGE HOLE DETAILS



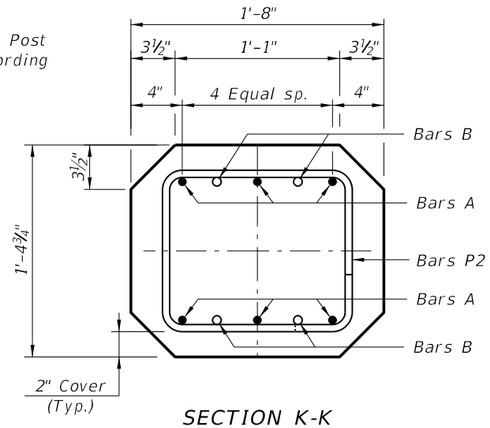
TYPICAL POST



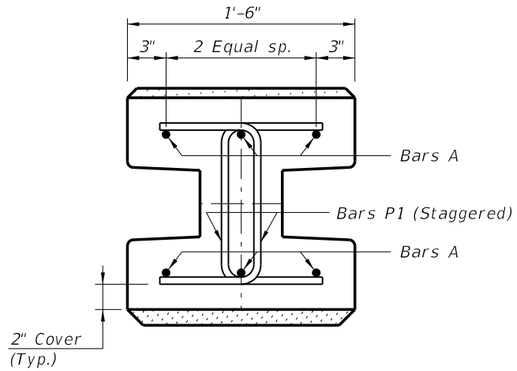
LOW CLEARANCE OPTION



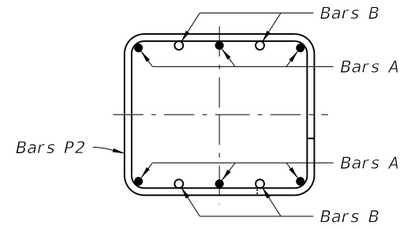
TYPICAL POST SECTION
(H Section)



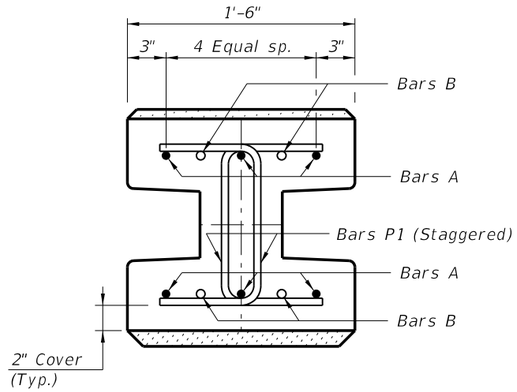
SECTION K-K
(Collar Section)



SECTION H-H



SECTION L-L



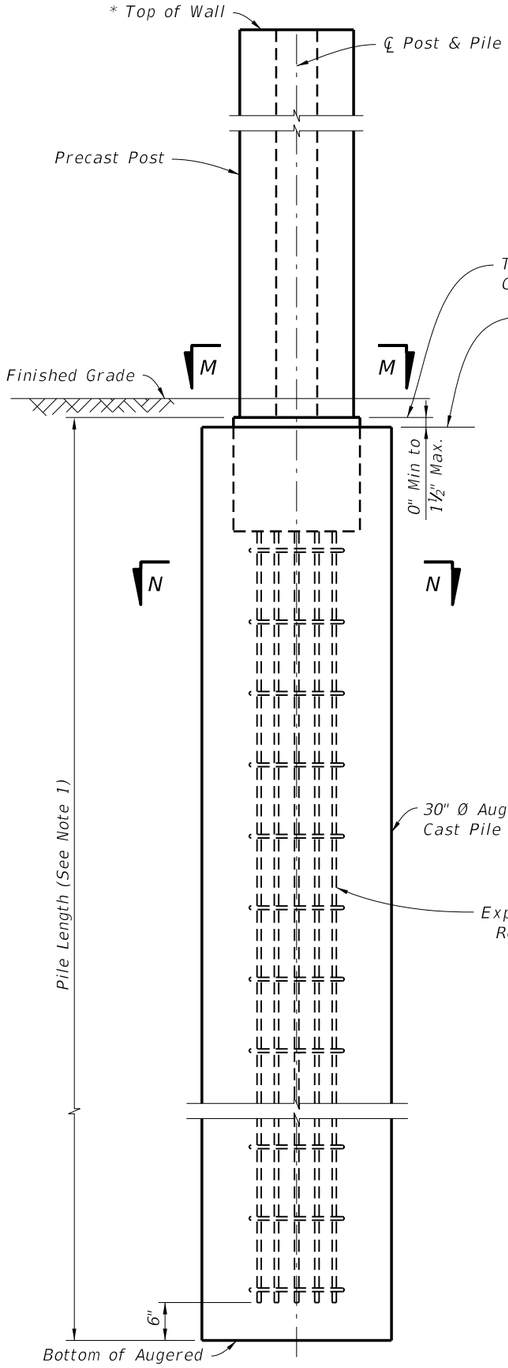
SECTION J-J

NOTES:
1. For Table of Dimensions and Reinforcing Steel, see Sheets 15 and 16.

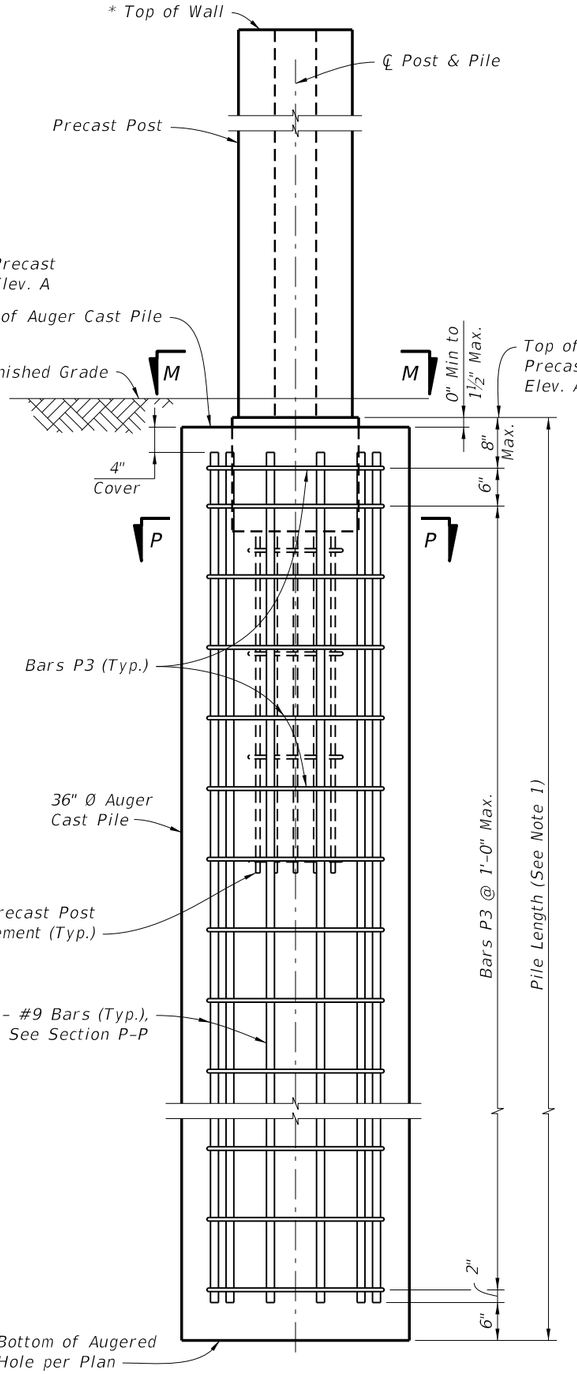
* Extend Post 2" above top of high side wall panel when post caps are shown in plans. See Sheet 4, "ELEVATION STEP AT TOP OF WALL".

STANDARD POST REINFORCEMENT
(Standard Post Shown, 45° Corner Posts Similar)

STANDARD POST DETAILS

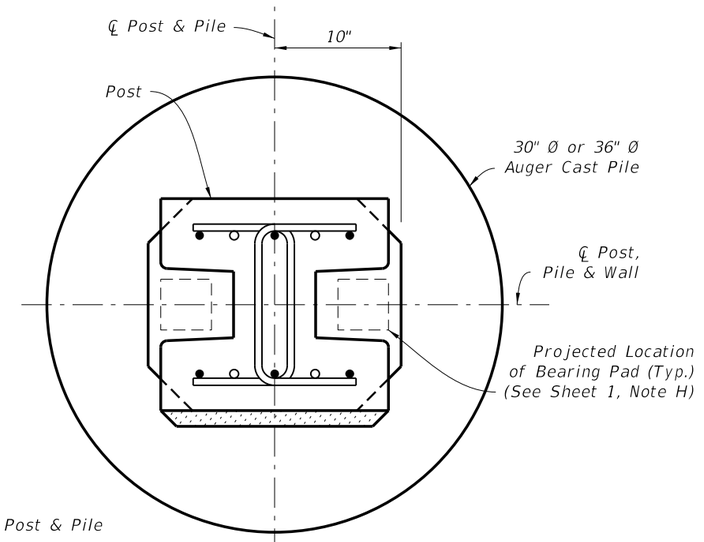


TYPICAL POST

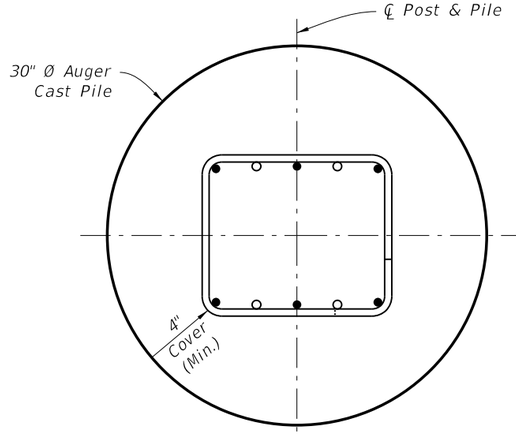


LOW CLEARANCE OPTION

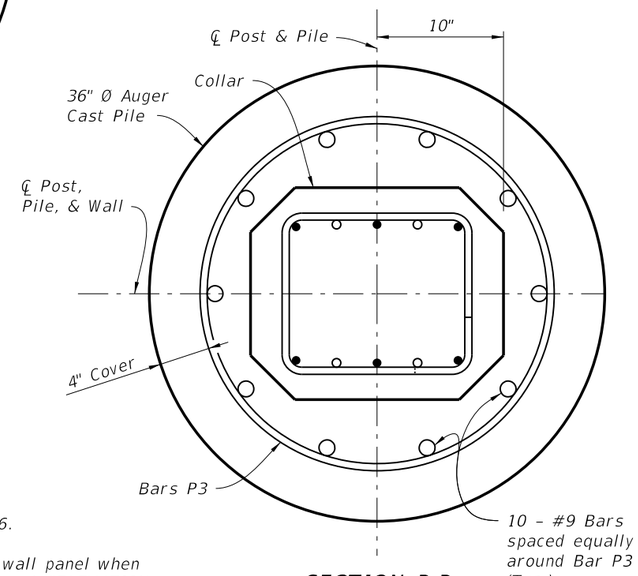
STANDARD POST PLACEMENT IN AUGER CAST PILE
(Standard Post Shown, 45° Corner Posts Similar)



SECTION M-M
(Standard Post)



SECTION N-N
(Standard Post)



SECTION P-P
(Standard Post)

NOTES:
1. For Pile Lengths, see Sheets 15 and 16.

* Extend Post 2" above top of high side wall panel when post caps are shown in plans. See Sheet 4, "ELEVATION STEP AT TOP OF WALL".

POST PLACEMENT & PILE REINFORCING STEEL DETAILS

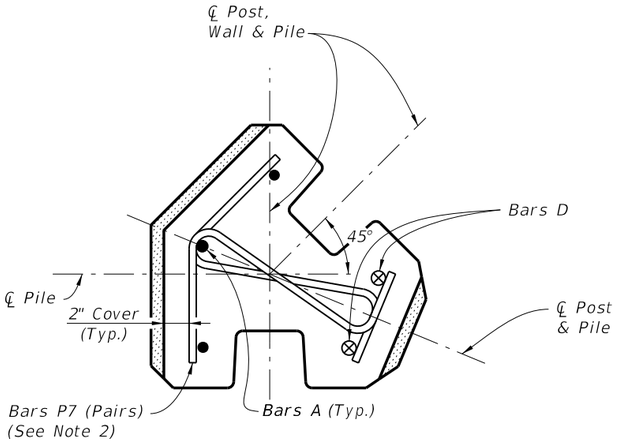
LAST REVISION 07/01/12 | REVISION | DESCRIPTION:

FDOT 2014 DESIGN STANDARDS

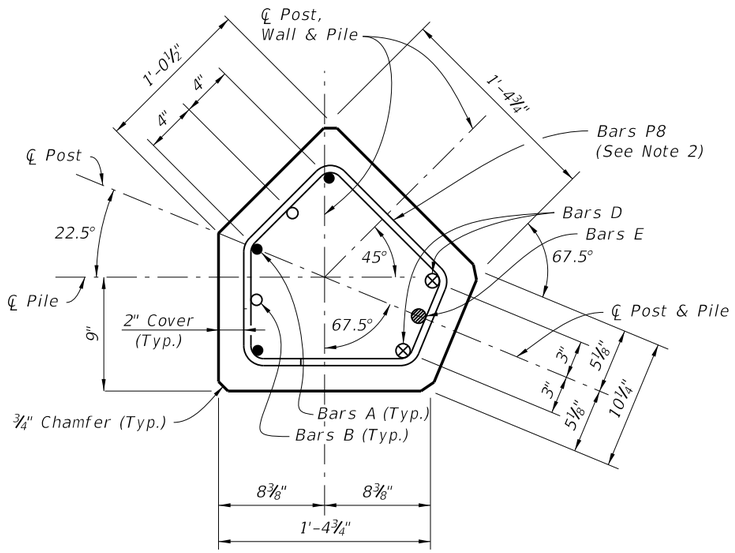
PRECAST NOISE WALLS

INDEX NO. 5200 | SHEET NO. 9 of 16

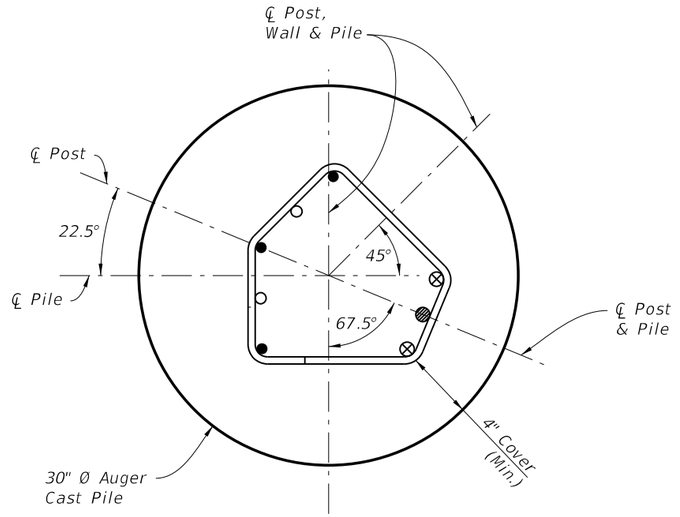
6/24/2013 6:52:56 PM sm970re C:\d\projects\standards\structures\current\ready4release\2014B00K\05200-09of16.dgn



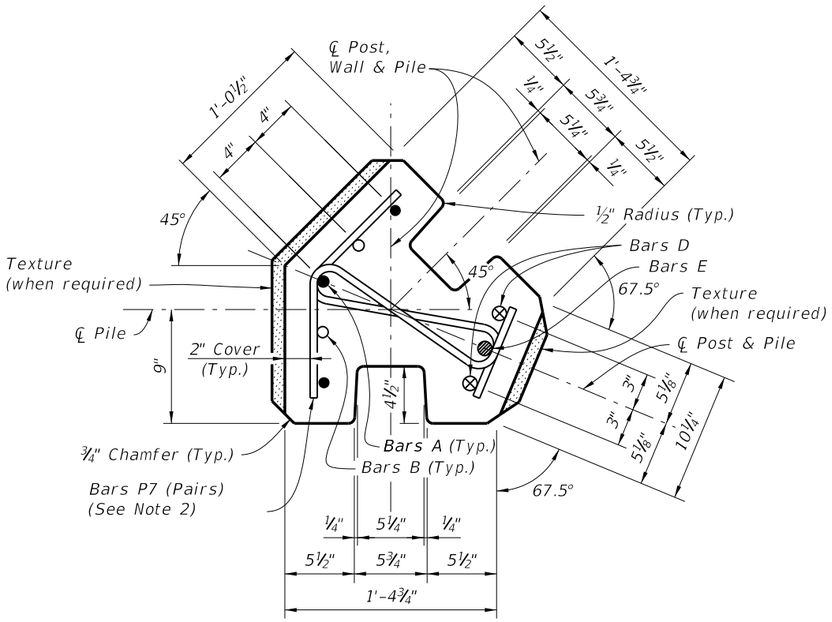
SECTION H-H
(45° Corner Post)



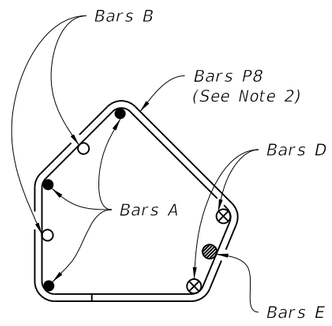
SECTION K-K
(Collar Section, 45° Corner Post)



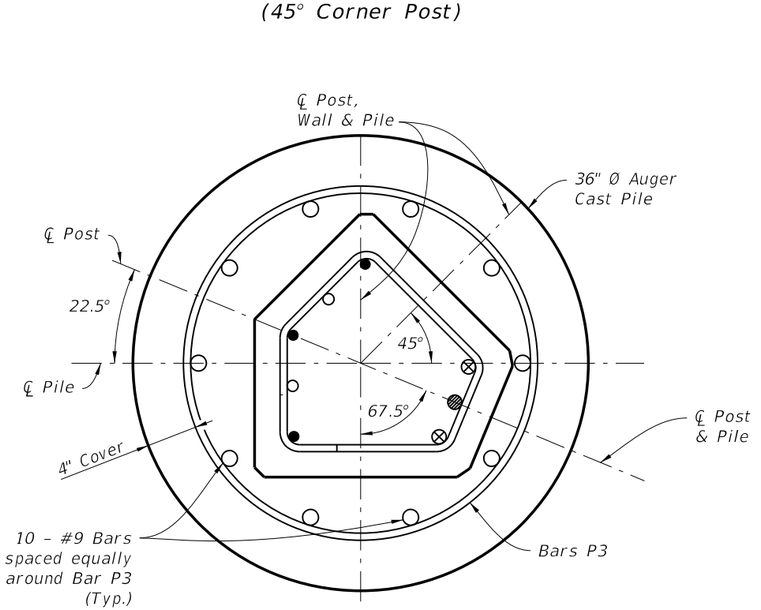
SECTION N-N
(45° Corner Post)



SECTION J-J
(45° Corner Post)



SECTION L-L
(45° Corner Post)



SECTION P-P
(45° Corner Post)

45° POST NOTES:
1. For Post & Pile Lengths and Table of Reinforcing Steel, see Sheets 15 & 16.
2. Reference Sheets 8 & 9 for location of Sections.
   Space Bars P7 as shown for Bars P1.
   Space Bars P8 as shown for Bars P2.
3. For texture thickness, match with appropriate Panel face.

45° POST DETAILS

45° POST PLACEMENT IN AUGER CAST PILE

45° CORNER POST DETAILS

LAST REVISION	REVISION	DESCRIPTION:		INDEX NO.	SHEET NO.
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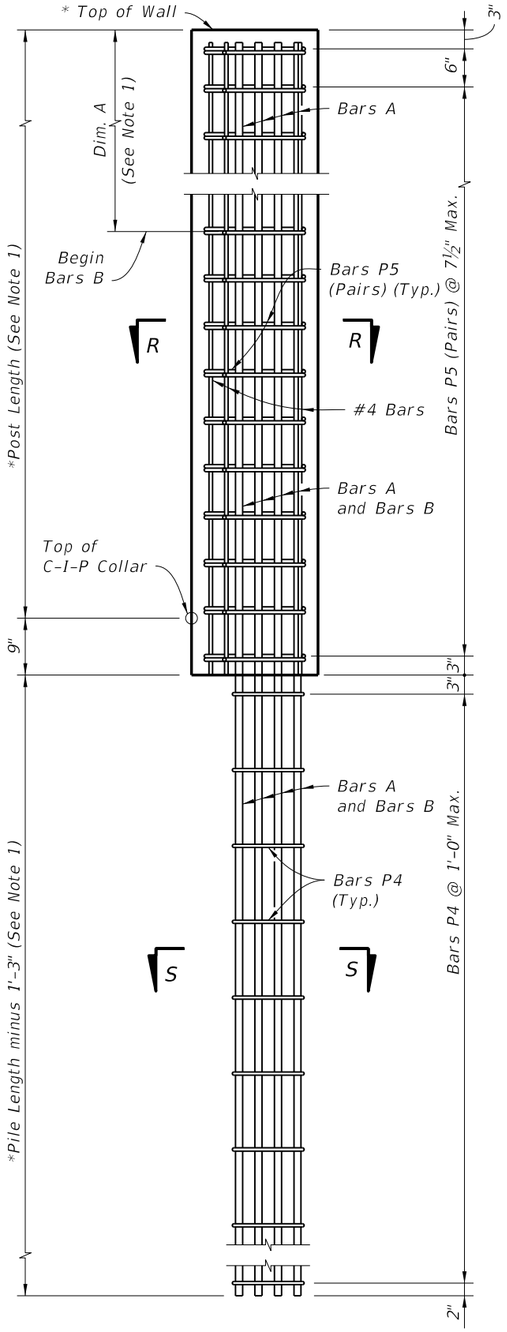
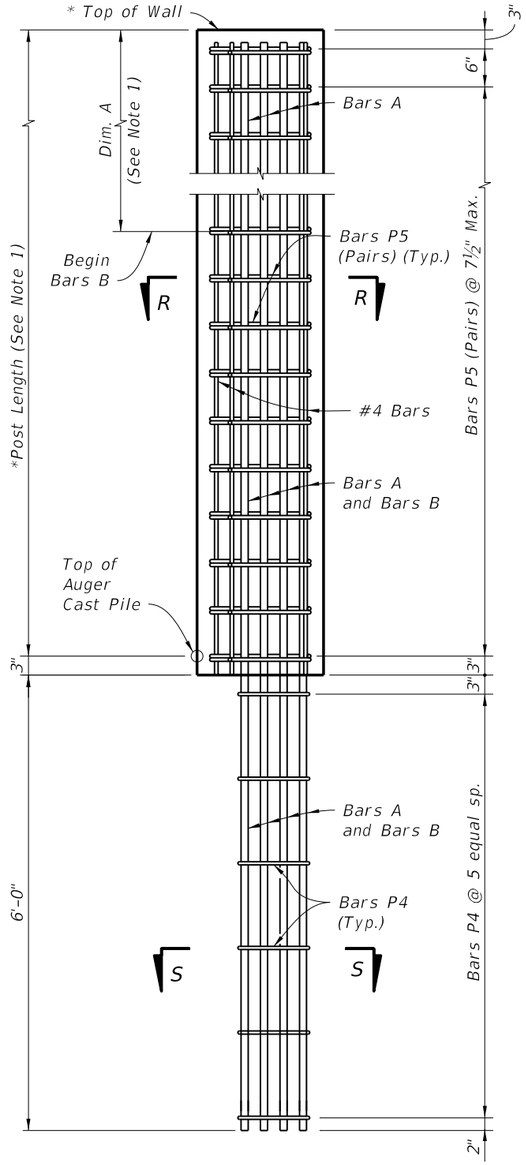
PRECAST NOISE WALLS

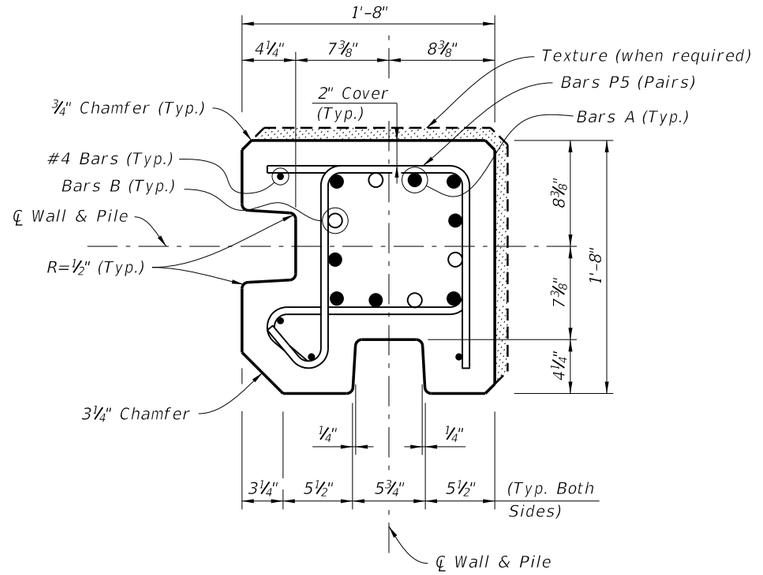


TYPICAL POST

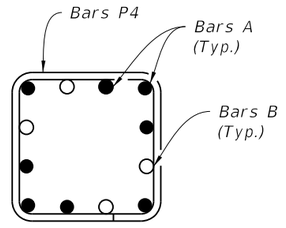


LOW CLEARANCE OPTION

90° CORNER POST REINFORCMENT
(Post Surface Features Not Shown For Clarity)



SECTION R-R



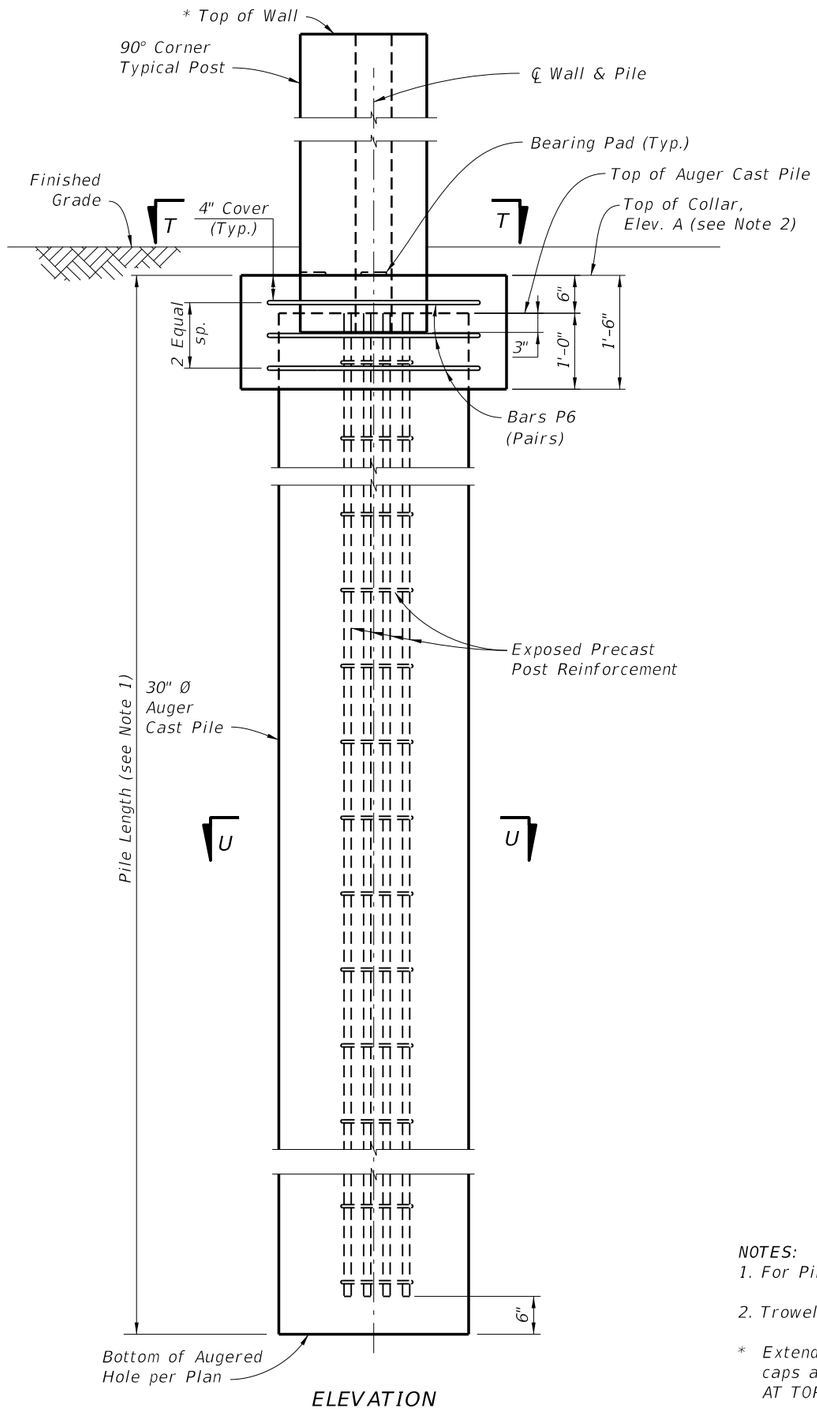
SECTION S-S

90° CORNER POST NOTES:
1. For Table of Dimensions and Reinforcing Steel, see Sheet 15 & 16.
2. Reduce typical panel length by 3½" at each 90° Corner Post.
3. For texture thickness, match appropriate Panel face.

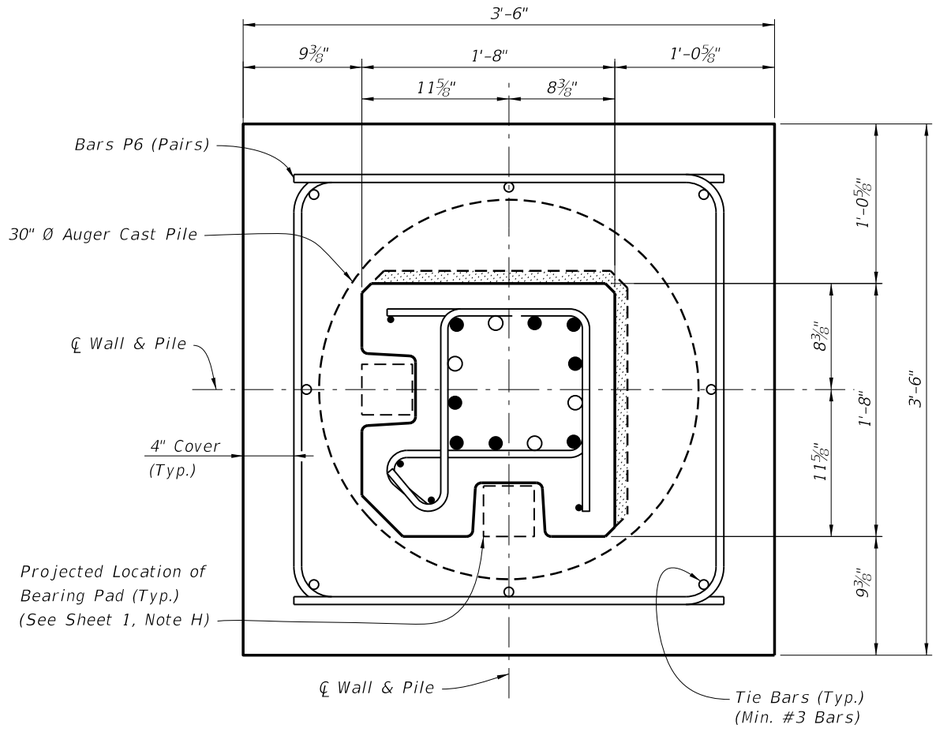
* Extend Post 2" above top of high side wall panel when post caps are shown in plans. See Sheet 4, "ELEVATION STEP AT TOP OF WALL".

90° CORNER POST DETAILS

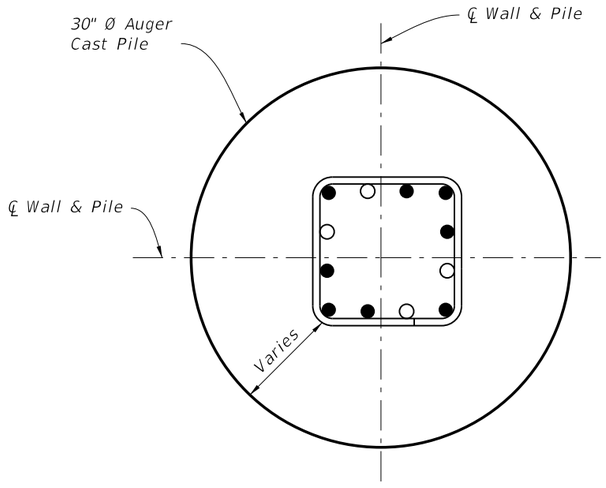
LAST REVISION	REVISION	DESCRIPTION:				
07/01/12			FDOT 2014 DESIGN STANDARDS	PRECAST NOISE WALLS	INDEX NO. 5200	SHEET NO. 11 of 16



ELEVATION



SECTION T-T



SECTION U-U

NOTES:
1. For Pile Lengths, see Sheets 15 and 16.

2. Trowel Finish top of Collar to allow placement of Bearing Pads.

* Extend Post 2" above top of high side wall panel when post caps are shown in plans. See Sheet 4, "ELEVATION STEP AT TOP OF WALL".

90° CORNER TYPICAL POST PLACEMENT DETAILS

LAST REVISION	REVISION	DESCRIPTION:			INDEX NO.	SHEET NO.
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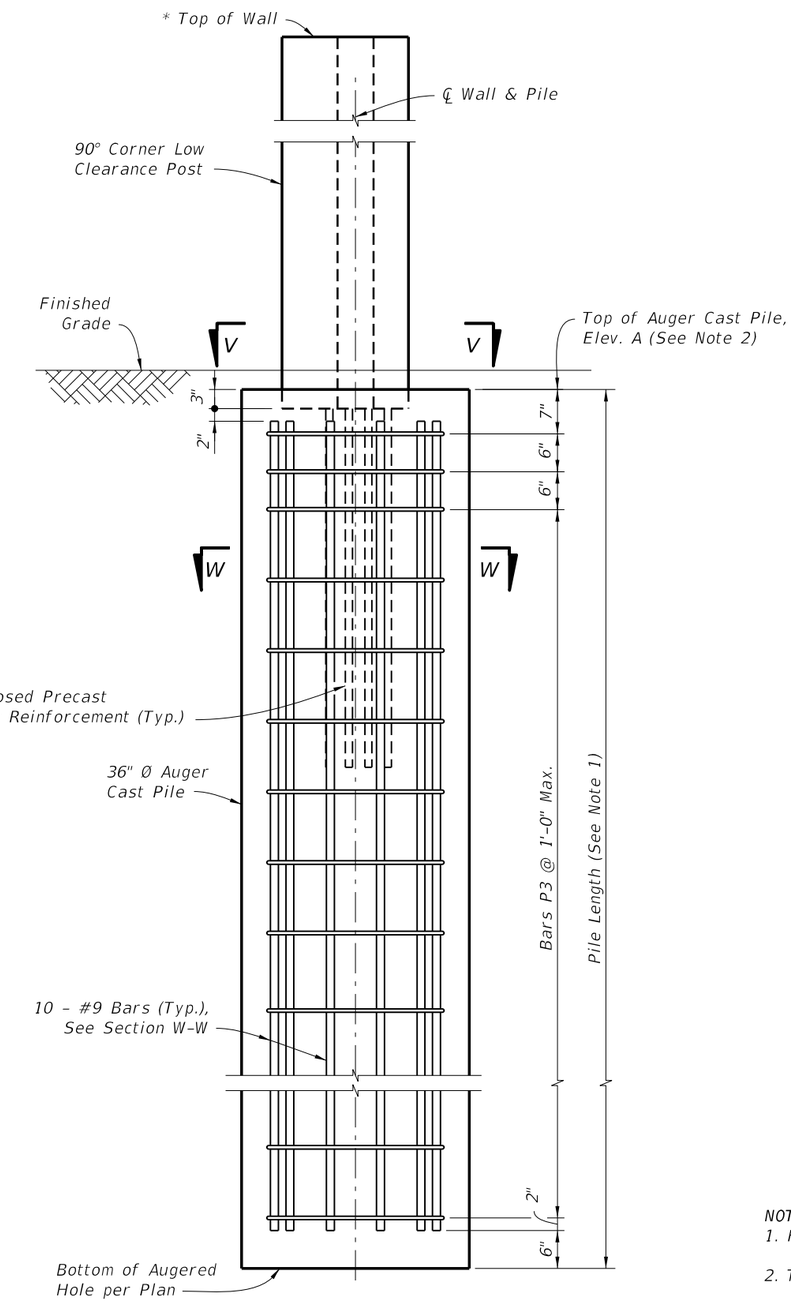
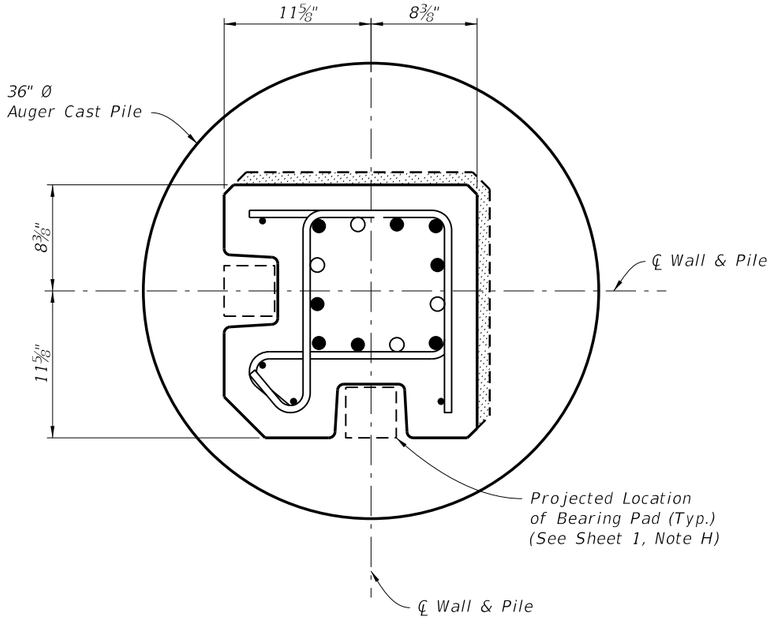
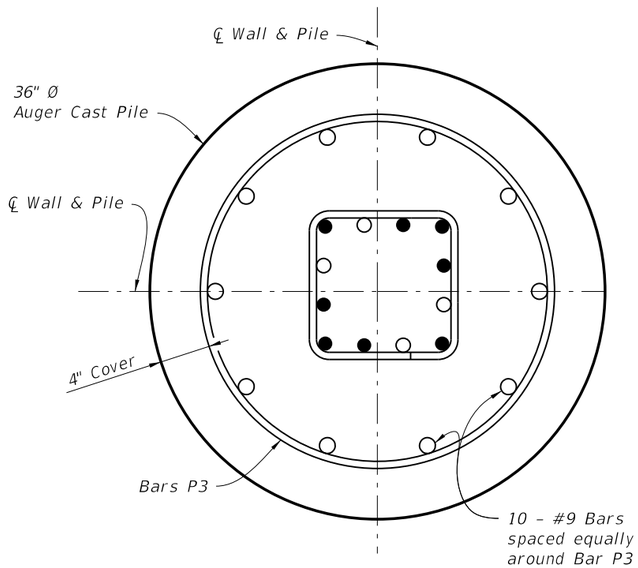


ELEVATION



SECTION V-V



SECTION W-W

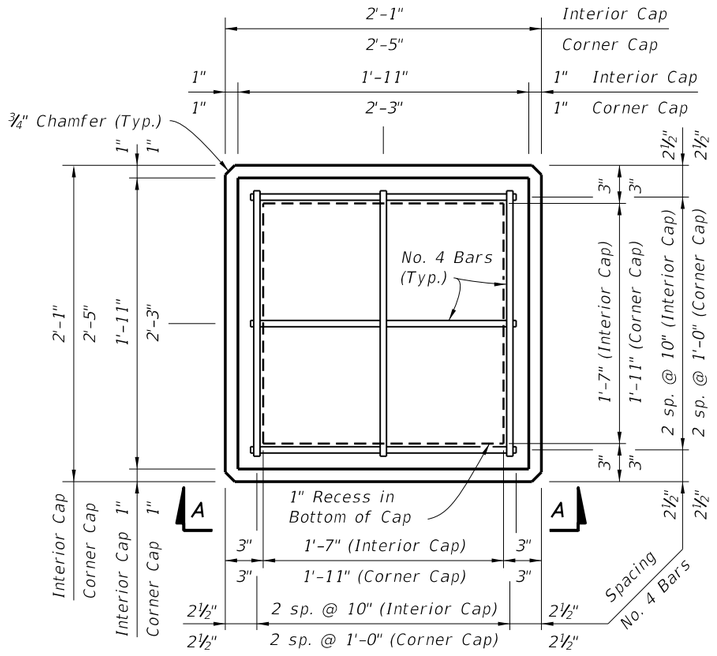
NOTES:
1. For Pile Lengths, see Sheets 15 and 16.

2. Trowel Finish top of Pile to allow placement of Bearing Pads.

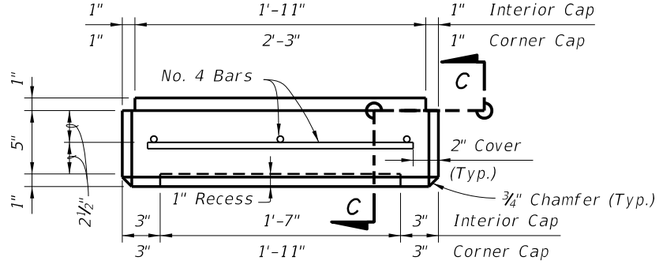
* Extend Post 2" above top of high side wall panel when post caps are shown in plans. See Sheet 4, "ELEVATION STEP AT TOP OF WALL".

90° CORNER LOW CLEARANCE POST PLACEMENT & PILE REINFORCING STEEL DETAILS

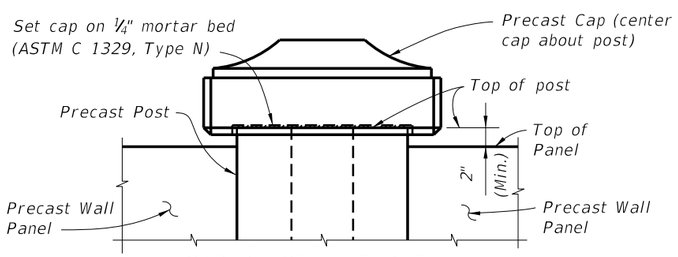
LAST REVISION	REVISION	DESCRIPTION:	FDOT 2014 DESIGN STANDARDS	PRECAST NOISE WALLS	INDEX NO.	SHEET NO.
07/01/12					5200	13 of 16



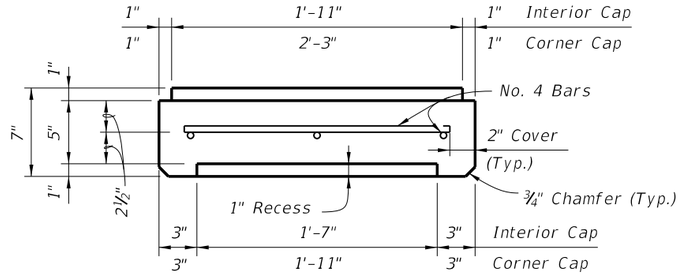
PLAN VIEW
(Type "A" Cap Shown, Type "B" & "C" Caps Similar)



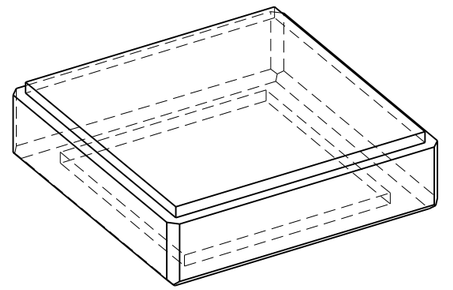
VIEW A-A SHOWN, VIEW B-B SIMILAR
(Type "A" Cap Shown, Type "B" & "C" Caps Similar)



CAP PLACEMENT DETAIL
(Type "B" Cap Shown, Type "A" & "C" Caps Similar)

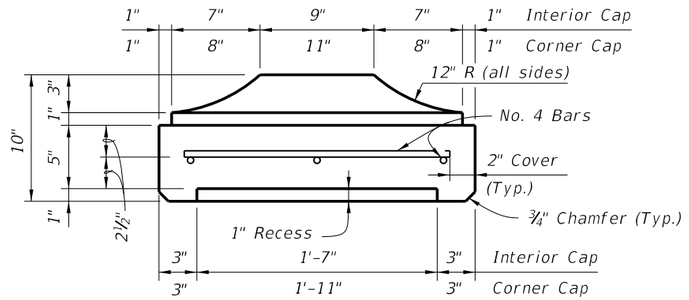


SECTION C-C

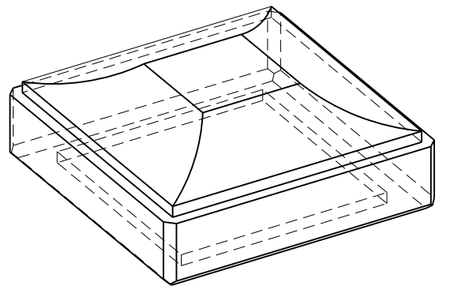


PICTORIAL VIEW

TYPE "A" CAP DETAILS

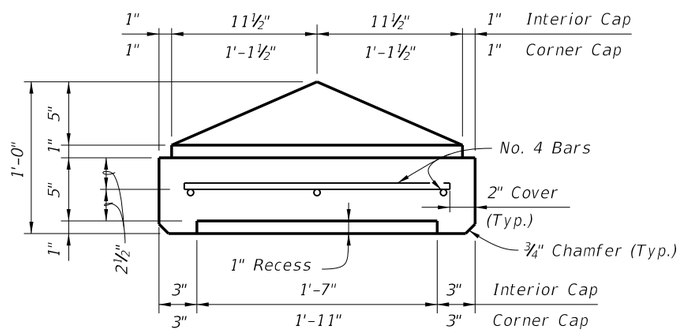


SECTION C-C

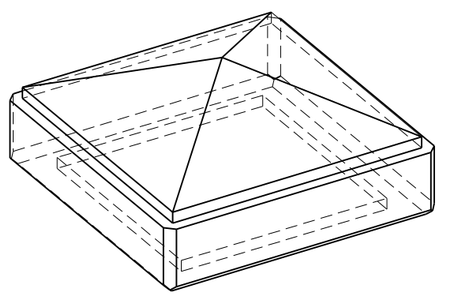


PICTORIAL VIEW

TYPE "B" CAP DETAILS



SECTION C-C

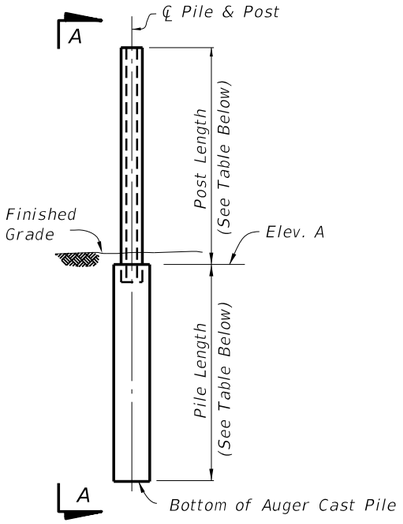


PICTORIAL VIEW

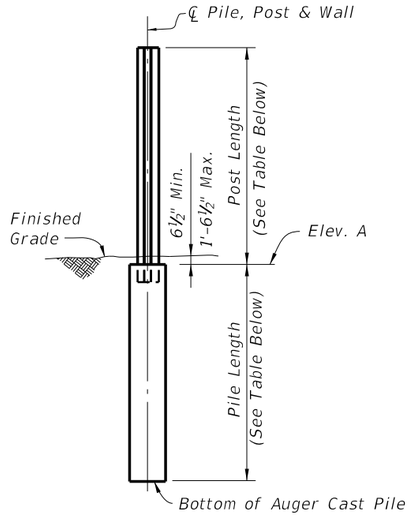
TYPE "C" CAP DETAILS

PRECAST POST CAPITAL

LAST REVISION	REVISION	DESCRIPTION:			INDEX NO.	SHEET NO.
01/01/11			FDOT 2014 DESIGN STANDARDS	PRECAST NOISE WALLS	5200	14 of 16



PILE/POST ELEVATION

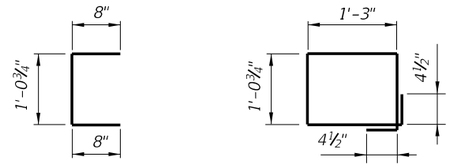


VIEW A-A

BAR BENDING DETAILS

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

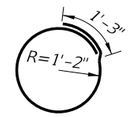
STANDARD POST (#4 Bars)



BAR P1
Bar Length = 2'-5"

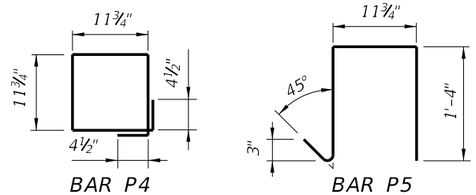
BAR P2
Bar Length = 5'-5"

PILE (Low Clearance) (#4 Bars)



BAR P3
Bar Length = 8'-7"

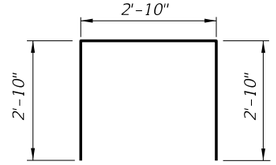
90° CORNER POST (#4 Bars)



BAR P4
Bar Length = 4'-8"

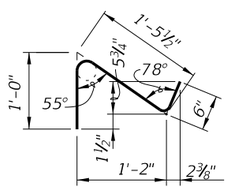
BAR P5
Bar Length = 4'-0"

CAST-IN-PLACE COLLAR (#5 Bars)

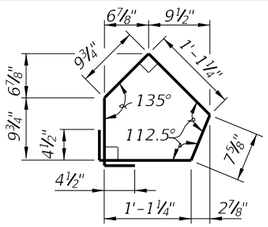


BAR P6 (Pair)
Bar Length = 8'-6" Each

45° CORNER POST (#4 Bars)



BAR P7
Bar Length = 3'-0"



BAR P8
Bar Length = 5'-3"

TABLE 1 - WIND SPEED = 110 MPH

POST AND PILE DIMENSIONS											TABLE OF REINFORCING STEEL											
			PILE LENGTH (Feet)								POST REINFORCING											
			N = 10 to 40 Med. Dense Granular Soil				N = 4 to 9 Loose Granular Soil				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 A	BARS B		BARS D	BARS E		BARS A	BARS B		BARS D	BARS E	
WALL TYPE	POST LENGTH WITHOUT CAP	POST LENGTH WITH CAP	30" ∅	36" ∅	30" ∅	36" ∅	30" ∅	36" ∅	30" ∅	36" ∅	SIZE	SIZE	DIM 'A'	SIZE	SIZE	DIM 'A'	SIZE	SIZE	DIM 'A'	SIZE	SIZE	DIM 'A'
A1	12'-0½"	12'-2½"	10	10	14	13	11	10	14	13	#4	#4	11'-5"	#4	#4	11'-5"	#4	#4	8'-5"	#5	#5	9'-2"
B1	13'-0½"	13'-2½"	11	10	14	13	11	10	15	14	#4	#4	12'-5"	#4	#4	11'-5"	#5	#5	11'-2"	#5	#5	9'-2"
C1	14'-0½"	14'-2½"	11	10	15	14	12	11	15	14	#4	#4	13'-5"	#4	#4	11'-5"	#5	#5	11'-2"	#6	#6	10'-9"
D1	15'-0½"	15'-2½"	12	11	16	14	12	11	16	15	#4	#4	13'-5"	#4	#4	11'-5"	#5	#5	11'-2"	#6	#6	10'-9"
E1	16'-0½"	16'-2½"	12	11	16	15	13	12	17	15	#4	#4	13'-5"	#5	#5	14'-2"	#6	#6	12'-9"	#7	#7	12'-4"
F1	17'-0½"	17'-2½"	13	12	17	15	13	12	17	16	#4	#4	13'-5"	#5	#5	14'-2"	#6	#6	12'-9"	#7	#7	12'-4"
G1	18'-0½"	18'-2½"	13	12	17	16	13	13	18	17	#5	#5	16'-2"	#5	#5	14'-2"	#6	#6	12'-9"	#8	#8	13'-10"
H1	19'-0½"	19'-2½"	13	13	18	17	14	13	18	17	#5	#5	16'-2"	#6	#6	15'-9"	#7	#7	14'-4"	#8	#8	13'-10"
I1	20'-0½"	20'-2½"	14	13	18	17	14	13	19	18	#5	#5	16'-2"	#6	#6	15'-9"	#7	#7	14'-4"	#8	#8	13'-10"
J1	21'-0½"	21'-2½"	14	13	19	17	15	14	19	18	#5	#5	16'-2"	#6	#6	15'-9"	#7	#7	14'-4"	#9	#9	15'-4"
K1	22'-0½"	22'-2½"	15	14	19	18	15	14	20	19	#6	#6	18'-9"	#7	#7	18'-4"	#8	#8	15'-10"	#9	#9	15'-4"

TABLE NOTE:

1. Bars D and Bars E are for 45° Corner Posts only.

PILE DEPTH & REINFORCING SUMMARY

TABLE 2 - WIND SPEED = 130 MPH

POST AND PILE DIMENSIONS											TABLE OF REINFORCING STEEL											
WALL TYPE	POST LENGTH WITHOUT CAP	POST LENGTH WITH CAP	PILE LENGTH (Feet)								POST REINFORCING											
			N = 10 to 40 Med. Dense Granular Soil				N = 4 to 9 Loose Granular Soil				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 A	BARS B		BARS D	BARS E		BARS A	BARS B		BARS D	BARS E	
			30" ∅	36" ∅	30" ∅	36" ∅	30" ∅	36" ∅	30" ∅	36" ∅	SIZE	SIZE	DIM 'A'	SIZE	SIZE	DIM 'A'	SIZE	SIZE	DIM 'A'	SIZE	SIZE	DIM 'A'
A2	12'-0½"	12'-2½"	12	11	16	15	12	11	16	15	#4	#4	11'-5"	#4	#4	9'-5"	#5	#5	9'-2"	#6	#6	8'-9"
B2	13'-0½"	13'-2½"	12	12	16	15	13	12	17	16	#4	#4	11'-5"	#5	#5	12'-2"	#5	#5	9'-2"	#6	#6	8'-9"
C2	14'-0½"	14'-2½"	13	12	17	16	13	12	18	16	#4	#4	11'-5"	#5	#5	12'-2"	#6	#6	10'-9"	#7	#7	10'-4"
D2	15'-0½"	15'-2½"	13	13	18	16	14	13	18	17	#4	#4	11'-5"	#5	#5	12'-2"	#6	#6	10'-9"	#7	#7	10'-4"
E2	16'-0½"	16'-2½"	14	13	19	17	14	13	19	18	#5	#5	13'-2"	#6	#6	13'-9"	#7	#7	12'-4"	#8	#8	11'-10"
F2	17'-0½"	17'-2½"	14	13	19	18	15	14	20	18	#5	#5	13'-2"	#6	#6	13'-9"	#7	#7	12'-4"	#8	#8	11'-10"
G2	18'-0½"	18'-2½"	15	14	20	18	15	14	20	19	#5	#5	13'-2"	#6	#6	13'-9"	#8	#8	13'-10"	#9	#9	12'-4"
H2	19'-0½"	19'-2½"	15	14	20	19	16	15	21	20	#6	#6	15'-9"	#7	#7	15'-4"	#8	#8	13'-10"	#9	#10	11'-7"
I2	20'-0½"	20'-2½"	16	15	21	19	16	15	22	20	#6	#6	15'-9"	#7	#7	15'-4"	#8	#8	12'-10"	#10	#10	13'-7"
J2	21'-0½"	21'-2½"	16	15	22	20	17	16	22	21	#6	#6	15'-9"	#7	#7	15'-4"	#9	#9	14'-4"	#10	#11	12'-10"
K2	22'-0½"	22'-2½"	17	16	22	21	17	16	23	21	#7	#7	17'-4"	#8	#8	16'-10"	#9	#9	14'-4"	#11	#11	13'-10"

TABLE 3 - WIND SPEED = 150 MPH

POST AND PILE DIMENSIONS											TABLE OF REINFORCING STEEL											
WALL TYPE	POST LENGTH WITHOUT CAP	POST LENGTH WITH CAP	PILE LENGTH (Feet)								POST REINFORCING											
			N = 10 to 40 Med. Dense Granular Soil				N = 4 to 9 Loose Granular Soil				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 A	BARS B		BARS D	BARS E		BARS A	BARS B		BARS D	BARS E	
			30" ○	36" ○	30" ○	36" ○	30" ○	36" ○	30" ○	36" ○	SIZE	SIZE	DIM 'A'	SIZE	SIZE	DIM 'A'	SIZE	SIZE	DIM 'A'	SIZE	SIZE	DIM 'A'
A3	12'-0½"	12'-2½"	13	12	18	16	14	13	18	17	#4	#4	9'-5"	#5	#5	10'-2"	#6	#6	8'-9"	#6	#7	7'-4"
B3	13'-0½"	13'-2½"	14	13	19	17	14	13	19	18	#4	#4	9'-5"	#5	#5	10'-2"	#6	#6	8'-9"	#7	#7	8'-4"
C3	14'-0½"	14'-2½"	14	13	19	18	15	14	20	19	#5	#5	11'-2"	#6	#6	11'-9"	#7	#7	10'-4"	#8	#8	9'-10"
D3	15'-0½"	15'-2½"	15	14	20	19	16	14	21	19	#5	#5	11'-2"	#6	#6	11'-9"	#7	#7	10'-4"	#8	#9	9'-4"
E3	16'-0½"	16'-2½"	16	14	21	19	16	15	22	20	#5	#5	11'-2"	#6	#6	11'-9"	#8	#8	10'-10"	#9	#9	10'-4"
F3	17'-0½"	17'-2½"	16	15	22	20	17	16	22	21	#6	#6	13'-9"	#7	#7	13'-4"	#8	#8	10'-10"	#9	#10	9'-7"
G3	18'-0½"	18'-2½"	17	16	22	21	17	16	23	21	#6	#6	12'-9"	#7	#7	13'-4"	#9	#9	12'-4"	#10	#10	11'-7"
H3	19'-0½"	19'-2½"	17	16	23	21	18	17	24	22	#6	#6	12'-9"	#8	#8	14'-10"	#9	#9	12'-4"	#11	#11	11'-9"
I3	20'-0½"	20'-2½"	18	17	24	22	18	17	25	23	#7	#7	15'-4"	#8	#8	14'-10"	#9	#10	11'-7"	#11	#14	10'-0"
J3	21'-0½"	21'-2½"	18	17	–	–	19	18	–	–	#7	#7	15'-4"	#9	#9	16'-4"	–	–	–	–	–	–
K3	22'-0½"	22'-2½"	19	17	–	–	19	18	–	–	#8	#8	16'-10"	#9	#9	16'-4"	–	–	–	–	–	–

TABLE NOTE:

1. Bars D and Bars E are for 45° Corner Posts only.

PILE DEPTH & REINFORCING SUMMARY