5. Out of Square:  ± 3⁄32" per 6 ft., but not more than ± 1⁄8" total along any line.
6. Warping: ± 3⁄64" per foot distance to nearest corner.
7. Bowing: ± 1⁄16" perpendicular to plane of side mold. 
8. Surface Smoothness for Type "A" (Smooth) Surface Texture Option: ± 3⁄64" along a 10 ft. straightedge.

I. CASTING TOLERANCES:
1. Neoprene Pads for Collar Bearing Points:
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. Neoprene Pads for Collar Bearing Points:
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.

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 of 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.

K. NEOPRENE PADS AND RESILIENT PADS:
1. Neoprene Pads for Collar Bearing Points:
a. Posts: 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. At panel bearing points between stacked panels, bearing pads may be of either of the materials:
a. 10’ post spacing: 4" x 4" x 2" Plain Pads, Grade 50 durometer hardness.
   a. 20’ post spacing and = 18’ wall height: 4" x 5" x 2" Plain Pads, Grade 50 durometer hardness.
   b. Minimum 28 Day Strength = 5500 psi
   c. Neoprene Pads for Collar Bearing Points:
      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)
3. Reinforced Pads when sufficient bearing area is available on the concrete collar for the following:
   a. 2,500 psi for horizontally cast post and panels.
   b. 2,000 psi for vertically cast post and panels.
4. Grout for Auger Cast Piles:
   a. 2,000 psi for horizontally cast post and panels.
   b. Minimum 28 Day Strength = 5500 psi
   c. Posts: Class IV (f’c = 5500 psi)
   d. Precast Panels, Collars and Post Caps: Class IV (f’c = 5500 psi)
   e. Cast-In-Place Collars: Class IV (f’c = 5500 psi)

L. 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)

M. UTILITIES:
1. AASHTO LRFD Specifications for Highway Bridges.
3. Florida Department of Transportation's Plans Preparation Manual, Volume I.
4. Field verify the locations of all overhead and underground utilities shown in the Wall Control Drawings.
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.

NOTES:
**DESCRIPTION:**

**TYPICAL FORMING DETAIL**

(Back Face Panel Texture Type "D" shown)

(For demonstration purposes only. See Noise Wall Data Tables in the plans for project specific texture and graphic requirements.)

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.

**NOTES:**

- Embedded joint between flat surface and form liner to be sealed watertight.
- Two stacked panels shown, three stacked panels similar.
- Second layer surface for recessed graphic design (optional).
- Single layer flat surface attached to form liner for casting smooth areas of wall design. See plans for project specific texture and graphic requirements.

**GRAPHICS & TEXTURE DETAILS**

- Top Panel
- Bottom Panel
- Top of Wall
- Form Roller
- Precast wall panel
- Front Face Panel Texture (Formed, Rolled or Pressed into Plastic Concrete)
- Form liner
- Sealed cavity
- Horizontal joint between stacked panels
- Symmetric about ℄
- Top of Wall
- Formed, Rolled or Pressed into Plastic Concrete
- Example Graphic Type SE-2
- Single layer flat surface attached to form liner for casting smooth areas of wall design. See plans for project specific texture and graphic requirements.
- Second layer surface for recessed graphic design (optional).
**Typical Details**

- **Post & Pile**
  - Nominal embedment (not including tolerances)

- **Neoprene Pads**
  - Various sizes depending on panel type

- **Fill with Non-Shrink Grout**

- **Roadway and Post Spacing**
  - Various distances depending on design requirements

- **Elevation Step at Top of Wall**
  - Different elevations for top and bottom of wall

- **Elevation Step at Bottom of Wall**

- **Typical Elevation**
  - Showing post with post cap
  - Showing post without post cap

- **Plan (Showing Flush Panel)**
  - Roadway face of wall, front face of post
  - Thicknesses of various parts

- **Plan (Showing Recessed Panel)**
  - Roadway face of wall, front face of post
  - Thicknesses of various parts
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 in²/ft).”

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

TYPICAL PANEL DETAILS

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

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
(Flush Panel)

PIVOTING DETAILS
(Recessed Panel)

TYPICAL PANEL DETAILS

DETAIL "C"

DETAIL "D"

DETAIL "E"
(Back Face Chamfer Shown
Front Face Chamfer Similar)
**DESCRIPTION:**

PRECAST NOISE WALLS

**REVISED:** 07/01/13

**PREFACE:**

FDOT 2014 DESIGN STANDARDS

5200 7 of 16

---

**FIRE HOSE ACCESS & DRAINAGE HOLE DETAILS**

**SECTION F-F**

- **FIRE HOSE ACCESS HOLE TYPICAL DETAIL** (Front Face of Wall Shown)
  - **NOTE:** Fire Hose Access Hole only to be located at or near fire hydrants.
  - **DRAINAGE HOLES TYPES A, B, C & D** (Front Face of Wall Shown)
  - **BAR BENDING DETAILS (#3 Bars)**
  - **PLUG DETAIL**
  - **SECTION G-G**
  - **GRATING DETAIL**
  - **See Grating Detail**

**SECTION E-E**

- **BAR A1 (Pair)** Bar Length = 2'-11" Each
- **BAR A2 (Pair)** Bar Length = 4'-6"

**SECTION G-G**

- **Expansion Anchors (Typ.)**
- **Expansion Anchors (Typ.)**

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

---

**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 9.2.2.6.
2. Expansion Anchors: Use %2" B X 3" ASTM A325, vandal resistant, hot-dip galvanized expansion anchors to connect grates to panels.
3. Grating recessed with back face of wall.
### TYPICAL POST SECTION (H Section)

- **Texture (Formed)**: 
- **Front Face Post**
- **Roadway Face of Wall**: Texture (according to plans)
- **Back Face of Post**

### SECTION K-K (Collar Section)

- **Collar**
- **Top of Post (Standard)** (Collar Section)

### SECTION H-H

- **Collar**
- **Top of Post** (Standard)

### SECTION J-J

- **Collar**
- **Top of Post** (Standard)

### LOW CLEARANCE OPTION

- **Post Length in Section (See Note 1)**
- **Max.**

### STANDARDS POST DETAILS

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

### 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 DETAILS**

**FDOT 2014 DESIGN STANDARDS**

**PRECAST NOISE WALLS**

**INDEX NO. 5200 SHEET NO. 8 of 16**

**LAST REVISION 07/01/12**

**DESCRIPTION**

- **REVISION**
- **DESCRIPTION**

---

**TEXT:**

- (Standard Post Shown, 45° Corner Posts Similar)

---

**NOTES:**

1. For Table of Dimensions and Reinforcing Steel, see Sheets 15 and 16.
**POST PLACEMENT & PILE REINFORCING STEEL DETAILS**

**SECTION M-M**

- Standard Post Placement in Auger Cast Pile

**SECTION N-N**

- Standard Post (Standard Post Shown, 45° Corner Posts Similar)

**SECTION P-P**

- Standard Post (Standard Post)

**NOTES:**

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

2. 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".

**TYPICAL POST**

**LOW CLEARANCE OPTION**

**STANDARD POST PLACEMENT IN AUGER CAST PILE**

- Standard Post Shown, 45° Corner Posts Similar

---

**DESCRIPTION:**

- Top of Wall
- Post & Pile
- Precast Post
- Top of Precast Collar, Elev. A
- Top of Auger Cast Pile
- Finished Grade
- Collar, Elev. A
- Top of Auger Cast Pile
- 30° Ø Auger Cast Pile
- 36° Ø Auger Cast Pile
- Bars P3 (Typ.)
- Exposed Precast Post Reinforcement (Typ.)
- 10 - #9 Bars (Typ.), See Section P-P
- Bottom of Augered Hole per Plan
- Post Length (See Note 1)

---

**INFO:**

- FDOT 2014 Design Standards
- Precast Noise Walls
- Revision 07/01/12
- Sheet No. 9 of 16
- Index No. 5200
 Bars P3 (Typ.)
around Bar P3
spaced equally
10 - #9 Bars
4 " Cover

Bars A (Typ.)
Bars B (Typ.)

67.5°

45°

Bars A (Typ.)
Bars B (Typ.)

Texture (when required)
Bars D

Texture (when required)

1/2" Chamfer (Typ.)
Bars P7 (Pairs)
(See Note 2)

1/2" Chamfer (Typ.)
Bars P7 (Pairs)
(See Note 2)

Wall & Pile

SECTION H-H
(45° Corner Post)

SECTION J-J
(45° Corner Post)

SECTION L-L
(45° Corner Post)

SECTION N-N
(45° Corner Post)

SECTION P-P
(45° Corner Post)

45° POST DETAILS
(45° Corner Post)

45° POST PLACEMENT IN AUGER CAST PILE
45° CORNER POST DETAILS

PRECAST NOISE WALLS

FDOT 2014
DESIGN STANDARDS

NO. SHEET INDEX
PRECAST NOISE WALLS

Last Revision 07/01/12

3. For Texture Thickness, match with appropriate Panel Face.
2. Reference Sheets 8 & 9 for location of Sections.
Space Bars P8 as shown for Bars P1.
Space Bars P8 as shown for Bars P3.
1. For Post & Pile Lengths and Table of Reinforcing Steel, see Sheets 15 & 16.
90° CORNER POST NOTES:
1. For Table of Dimensions and Reinforcing Steel, see Sheet 15 & 16.
2. Reduce typical panel length by 3b" 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.

**TYPICAL POST**

**90° CORNER POST REINFORCEMENT**
(Post Surface Features Not Shown For Clarity)
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"
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."

10 - #9 Bars (Typ.), See Section W-W

Top of Auger Cast Pile, Elev. A (See Note 2)

11½'
8½'
36" Ø Auger Cast Pile

10 - #9 Bars spaced equally around Bar P3 (Typ.)

Projected Location of Bearing Pad (Typ.) (See Sheet 1, Note H)

"Wall & Pile"

90° Corner Low Clearance Post

ELEVATION

Projected Location of Bearing Pad (Typ.)

SECTION V-V

SECTION W-W

* Top of Wall

Bottom of Augered Hole per Plan

Exposed Precast Post Reinforcement (Typ.)

10 - #9 Bars (Typ.), See Section W-W

Bars P3 1'-0" Max.

36" Ø Auger Cast Pile

Top of Auger Cast Pile

Finished Grade

Clearance Post

Grade Finished

1

* Top of Wall

3" 2" 6"

2" 6" 2" 6"

ELEVATION

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

36" Ø Auger Cast Pile

FDOT 2014 DESIGN STANDARDS

PRECAST NOISE WALLS

INDEX NO.
5200

SHEET NO.
13 of 16

NO.

SHEET

INDEX

REV IS IO N

LAST REVISION
07/01/12

DESCRIPTION

CDR 11-11

FDOT DRAWING NUMBER

P 5200

FDOT 2014

DESIGN STANDARDS

PRECAST NOISE WALLS

INDEX NO.
5200

SHEET NO.
13 of 16
### TABLE 1 - WIND SPEED = 110 MPH

#### POST AND PILE DIMENSIONS

<table>
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<tr>
<th>WALL TYPE</th>
<th>POST LENGTH WITHOUT CAP</th>
<th>POST LENGTH WITH CAP</th>
<th>PILE LENGTH (Foot)</th>
<th>10'-3&quot; POST SPACING</th>
<th>20'-4&quot; POST SPACING</th>
<th>10'-3&quot; POST SPACING</th>
<th>20'-4&quot; POST SPACING</th>
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<td>A1</td>
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#### TABLE OF REINFORCING STEEL

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<tr>
<th>WALL TYPE</th>
<th>POST LENGTH WITHOUT CAP</th>
<th>POST LENGTH WITH CAP</th>
<th>PILE LENGTH (Foot)</th>
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<th>20'-4&quot; POST SPACING</th>
<th>10'-3&quot; POST SPACING</th>
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</table>

**Table Note:**
1. Bars 0 and Bars 5 are for 45° Corner Posts only.

---

**Pile Depth & Reinforcing Summary**

- **FDOT 2014 Design Standards**
- **Precast Noise Walls**
- **Last Revision:** 07/01/13
- **Description:**
- **Index No.:** 5200
- **Sheet No.:** 15 of 16
### TABLE 2 - WIND SPEED = 130 MPH

<table>
<thead>
<tr>
<th>WALL TYPE</th>
<th>POST LENGTH WITHOUT CAP</th>
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<th>POST REINFORCING</th>
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### TABLE 3 - WIND SPEED = 150 MPH

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</tr>
<tr>
<td>I3</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>J3</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>K3</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### TABLE OF REINFORCING STEEL

<table>
<thead>
<tr>
<th>WALL TYPE</th>
<th>POST LENGTH WITHOUT CAP</th>
<th>POST LENGTH WITH CAP</th>
<th>POST REINFORCING</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>30'</td>
<td>36'</td>
<td>30'</td>
</tr>
<tr>
<td></td>
<td>Ø</td>
<td>Ø</td>
<td>Ø</td>
</tr>
</tbody>
</table>

### POST DEPTH & REINFORCING SUMMARY

**Post Reinforcing**

- **BARS**
  - **A**
  - **B**
  - **C**
  - **D**
  - **E**

**Post Spacing**

- **Post Spacing**
  - **10'-0"**
  - **20'-0"**

**Post Depth & Reinforcing Summary**

- **Post Depth**
  - **A**
  - **B**
  - **C**
  - **D**
  - **E**

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**Table Note:**

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

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**Last Revision:** 07/01/13

**Description:**

- **FDOT 2014**
  - **Design Standards**
  - **Precast Noise Walls**

**Index No.:** 5200

**Sheet No.:** 16 of 16