**PRECAST SOUND BARRIERS**

**FLUSH PANEL OPTION**

**Auger Cast Pile**

- Min. ~ 4" Max.
- 2
- 1

**Neoprene Rod**

- 1" Ø Polyethylene
- Max. 5" (Typ.)
- 6" Min.
- 2 1/2" x 4" x 1/2 Neoprene Pad (shown) or 1 4" x 6" x 1/2 Neoprene Pad

**Neoprene Pad**

- or 1 4" x 6" x 1/2 Neoprene Pad
- 2 - 1 1/2" x 6" x 1/2 Neoprene Pads (shown) or 1 4" x 6" x 1/2 Neoprene Pad

**Top Panel**

- Top of post & Panel
- Top of post & Panel
- Top Panel
- Top Panel
- Top Panel

**ELEVATION STEP AT BOTTOM OF WALL**

- 4" x 4" x 1/2 Neoprene Pads (Typ.)
- See Note H. 2 on Index No. 5200

**TYPICAL ELEVATION**

(Pile/Post Connection Option A Shown)

**ELEVATION STEP AT TOP OF WALL**

- Top of wall and post when post caps are not required
- Top of wall and post when post caps are not required
- Top Panel
- Top Panel
- Top Panel

**TYPICAL PANELS AND POSTS**

**REVISIONS**

<table>
<thead>
<tr>
<th>DATE</th>
<th>BY</th>
<th>DESCRIPTION</th>
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<tbody>
<tr>
<td>07/01/10</td>
<td>CMH</td>
<td>Changed Total Number of Sheets.</td>
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<tr>
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<td>Added optional texture for non-roadway face of wall.</td>
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**DATE**

| 07/01/10 | CMH | 2010 Interim Design Standard |

**PRECAST POST CAP DETAIL**

Note: See plans for Post Cap requirements. See Index No. 5207 for Post Cap details.
**TYPICAL PANEL ELEVATION**

*In lieu of utilizing the 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, the vertical steel may be reduced to #4 Bars @ 1'-3" (As=0.15 in.²/ft.).*

**REQUIRED PICK UP POINTS FOR PANELS**

(Panels shall be rotated about long axis only)

**SECTION D-D**

**SECTION E-E**

**SECTION F-F**

**TYPICAL PANELS AND POSTS**

**REVISIONS**

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**2010 Interim Design Standard**

**PRECAST SOUND BARRIERS - FLUSH PANEL OPTION**

**Sheet No.** 2 of 6

**Index No.** 5202
NOTE: The shop drawings shall include specific pivoting point details of panel ends at locations where the deflection angle (2Δ) between panels exceeds 7°.

PANEL PLAN

SPECIAL POSTS FOR 90° CORNERS FOR PILE/POST CONNECTION OPTIONS C & D
Collars for Special Posts shall be 3'-6" Ø

SPECIAL PANELS AND POSTS

WEB HOLE & SHEAR CONNECTOR SPACING DETAIL
(Concrete not shown for clarity. For limits of concrete see Index No. 5205, Sheet No. 4 of 7.)

PIVOTING POINT DETAILS

DETAIL 1

DETAIL 2

2. For Post & Pile Lengths, see Index No. 5206.
NOTES:
1. For Pile/Post Connection Options A, B & E, see Index No. 5205.
2. Use 3'-6" CIP Collar for all 90° corner posts.
3. For Post & Pile Lengths, see Index No. 5206.
4. For Table of Reinforcing Steel, see Index No. 5206. Bars P10 not required for corner pile.
5. Reduce standard panel length or adjust post spacing by 3½" at each 90° Corner Post to accommodate the Special Post dimensions.

SPECIAL POSTS FOR 90° CORNERS FOR PILE/POST CONNECTION OPTIONS A, B & E
Collars for Special Posts shall be 3'-6" Ø

PRECAST SOUND BARRIERS
- FLUSH PANEL OPTION

INDEX No.
5202
**WEB HOLE AND SHEAR CONNECTOR SPACING DETAIL**

*Concrete not shown for clarity*

- **Bars B @ 7 1/2" max. spacing**
- **1/2" x 5 1/2" Shear Connectors (Typ.)**
- **22.5° Flange (Typ.)**
- **67.5° Top of Pile Elevation A**

**Steel Section W 14 x 53**

- **W 14 x 53 POST DETAIL**
- **NOTE:** The W 14 x 53 Section shall extend into the Auger Cast Pile.

**SECTION A-A**

**TYPICAL SECTION ABOVE PILE**

**SECTION B-B**

**PRECAST COLLAR SECTION**

**VIEW C-C (PARTIAL ELEVATION)**

*Only Front Faces Shown for Clarity*

**W 14 x 53 CENTERED**

**SECTION D-D**

**TYPICAL SECTION ABOVE PILE**

**SECTION E-E (PARTIAL ELEVATION)**

*Only Front Faces Shown for Clarity*

**SPECIAL POSTS FOR 45° CORNERS FOR PILE/POST CONNECTION OPTIONS C & D**

**NOTES:**

1. For Table of Reinforcing Steel Sizes, see Index No. 5206.
2. For Pile/Post Connection Options A through E, see Index No. 5205.
3. For Post & Pile Lengths, see Index No. 5206.
4. Shear Connectors shall be 5" long after welding.
Notes:
1. Contractor shall submit specific form liner samples for approval by the Engineer.
2. Textures and graphics shown are for demonstration purposes only. See Wall Control Drawings for project specific texture and graphic requirements.