**Pedestrian Structure:**

**Fencing for Existing Open Parapet**

**B-32-D**

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**Typical Elevations**

- **At End Panel:**
  - Tension Bar Bands @ 1'-0" o/c
  - ¾" x ⅝" Tension Bar (Typ.)
  - ⅝" Truss Rod (Typ.)

- **At Anti-Climb Shield:**
  - ¾" Ø Pipes-Frame Around Post-Curved Fence Only
  - Separate Pieces of Fabric Around Curved Fence Only

- **At Expansion Joint:**
  - Expansion Sleeve (Typ.)
  - See Detail

- **At Light Standard:**
  - ½" TRUSS ROD (Typ.)
  - Wire Ties @ 1'-0" (Typ.)

- **Fabric:**
  - ¾" Clear (Max.) Above Walk

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**Section A-A**

- **Pipe Connector Detail:** Use at Anti-Climb Shield Only

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**Michigan Department of Transportation**

**Prepared by:**

**Design Division**

**Drawn by:**

**Checked by:**

**Plan Date:**

**Approved by:**

**1-25-2013**

**F.H.W.A. Approval**

**Bureau of Highway Development Standard Plan for Fencing for Pedestrian Structure Existing Open Parapet**

**Kirk T. Steudle**

**Department Director**

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**Michigan Department of Transportation**

**Director, Bureau of Highway Development**

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**Note:**

Use this detail only when location of the endwall precludes a standard connection. Otherwise, place the end fence post in the center of the end concrete post with standard post connection clips.

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**Use at Anti-Climb Shield Only**

**Pipe Connector Detail**

- ½" Ø Pipe Connector to have full contact with post and frame before welding.

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**Department Director**

**Kirk T. Steudle**

**Approved by:**

**Director, Bureau of Field Services**

**Approved by:**

**Director, Bureau of Highway Development**

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**ANTICLIMB SHIELD/POST DETAIL**

The anti-climb shield shall be located at the second post from the end or as shown on the plans or as directed by the engineer.

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**POST CONNECTION CLIP DETAIL**

Notes:

- All fence posts shall be 2½" nominal, 2.875 OD. Pipe and anti-climb shield pipe frames shall be 2½" nominal, 2.875 OD. Pipe, in conformance with ASTM ASTM F669, Class 1C.
- Horizontal rails shall be 1½" nominal, 1.66 OD. Pipe in conformance with ASTM F669, Class 15.
- All fence components, unless otherwise indicated, shall be galvanized in accordance with Moot's current standard specifications for construction.
- All posts, anti-climb shields or other components to be fabricated shall be furnished "Black" fabricated (welded) and then galvanized.
- Damaged galvanized surfaces (new and existing) shall be repaired in accordance with Moot's current standard specifications for construction.
- Fence fabric shall be 49 gauge mesh and be galvanized or aluminum coated in conformance with Moot's current standard specifications for construction. Mesh size opening shall be 2" unless 1" mesh size opening is approved by the traffic and safety division and noted on design plans. All details on standard plan shall apply regardless of mesh size openings.
- Galvanized ½" or ⅝" rods shall extend diagonally from the top connection clip at the tension bar to the adjacent post, except across expansion joints and at light standards, with a curved fence detail when there are two or more contiguous panels of fabric.
- All bolt fasteners secured in concrete shall be ½" diameter "Adhesive Anchored Bolts" with 4½" embedment. The structural adhesive shall be chosen from the qualified products list in the current Moot materials source guide.
- The hole size for adhesive anchored bolts shall be proposed by the contractor in accordance with the adhesive bonding agent manufacturer's recommendation and field tested in accordance with Moot's current standard specifications for construction.

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**FENCING FOR PEDESTRIAN STRUCTURE**

**EXISTING OPEN PARAPET**

**EXPANSION SLEEVE DETAIL**

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**MICHIGAN DEPARTMENT OF TRANSPORTATION**

**BUREAU OF HIGHWAY DEVELOPMENT STANDARD PLAN FOR**

**FENCING FOR PEDESTRIAN STRUCTURE**

**EXISTING OPEN PARAPET**

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1-25-2013

F.H.W.A. APPROVAL

4-15-2009

PLAN DATE

B-32-D

SHEET

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