

MICHIGAN  
DEPARTMENT OF TRANSPORTATION  
  
SPECIAL PROVISION  
FOR  
**STRUCTURAL STEEL FOUNDATION PILE POINTS**

STR:JAB

1 of 2

APPR: REL:RWS:01-25-23  
FHWA:APPR:02-01-23

**Delete subsection 906.05.C of the Standard Specifications for Construction, in its entirety and replace with the following:**

**C. Pile Points.**

1. **H-Piles.** When specified, steel H-piles must be fitted with cast steel pile points. Cast the pile points in one piece steel as described, conforming to the dimensional requirements as shown on the plans. Provide certification that the steel used in the fabrication of the pile points meets any one of the following specifications: *ASTM A148/A148M Grade 90-60* or *AASHTO M103M/M103 Grade 65-35*. The minimum weight of the pile points must be 35 percent of the proposed pile weight, per 1 foot for *AASHTO M103M/M103* steel and 30 percent for *ASTM A148/A148M* steel.

Fasten the pile points to the steel H-piles using a minimum 5/16 inch continuous fillet weld or greater weld size per the manufacturer's specifications along the flange contact areas. The pile points must have sufficient flange and continuous web vertical back-ups to assure proper alignment and fitting to the pile. Slope the soil or rock bearing surfaces of the points, downward towards the web, a minimum of 15 degrees, but not to exceed 45 degrees, to the horizontal under the flanges. Terminate the sloped surfaces of the points in a manner to form a flat surface not exceeding one third of the flange width.

Furnish pile points for steel H-Piles from the following manufacturers or approved equal:

Manufacturer	Product/Model
Associated Pile & Fitting Corp.	Hard Bite HP77600-B
	Hard Bite HP77750-B
	Hard Bite HP7780-B
	Super Bite PAR-T Series
Construction Supply Company	HT 3300 Series w/teeth
DFP Foundation Products, LLC.	Tuftp H-777
Mid-America Foundation Supply, Inc.	HPH Series
Versa Steel, Inc.	VS 300 Series

2. **CIP Concrete Pile Shells.** Close ends of pile shells with a flat plate welded to the pile as shown in the contract. Plate steel used in the fabrication of the pile point must meet the requirements of *AASHTO M270M/M270 Grade 50 or Grade 50W*.

3. **Timber Piles.** Shod timber piles with metal shoes. Use either Associated Pile and Fitting Corp T-9168 (Timber Point), T-9316 (Timber Boot), or a design approved by the Engineer. Shape the points of timber piles to secure an even and uniform bearing on the shoes.