

MICHIGAN  
DEPARTMENT OF TRANSPORTATION  
  
SPECIAL PROVISION  
FOR  
**TRUSS, TYPE E, WALL MOUNTED SUPPORTS**

OFS:DK

1 of 2

APPR:AJU:BMW:02-05-21  
FHWA:APPR:02-10-21

**a. Description.** This work consists of the following:

1. Providing, fabricating and installing wall mounted supports for Type E trusses;
2. Modifying Type E trusses to accommodate the actual span length and skewed supports as applicable;
3. Excavating and backfilling to facilitate support installation; and
4. Performing the work in accordance with the plans, the standard specifications and as specified herein.

**b. Materials.**

1. Truss Support Assembly. Provide hollow structural tubing that meets the requirements of *ASTM A500/A500M Grade B*. Provide plates and rolled structural shapes that meet the requirements of section 906 of the Standard Specifications for Construction.
2. High Strength Steel Bolts, Nuts and Washers. Provide high strength bolts, nuts and washers meeting the requirements of subsection 906.07 of the Standard Specifications for Construction.
3. U-Bolts. Provide stainless steel U-bolts, nuts and washers meeting the requirements of subsection 919.08.H of the Standard Specifications for Construction.
4. Thru-Bolts. Provide thru-bolts meeting the requirements of subsection 908.14.D of the Standard Specifications for Construction except that all portions of the bolts must be galvanized.
5. Adhesive Anchors. Provide adhesive anchors from the Qualified Products List. Adhesive anchored studs must be stainless steel that meets the requirements of *ASTM F593*. Provide washers and lock nuts meeting the requirements of subsection 919.08.H of the Standard Specifications for Construction.
6. Grout. Provide non-shrink grout in accordance with subsection 1005.02.B of the Standard Specifications for Construction.

**c. Construction.** Field verify wall dimensions prior to fabrication. Submit working drawings to the Engineer for review not less than 14 days prior to fabrication. Do not fabricate until the working drawings have been approved by the Engineer.

Fabricate the wall mount support components and assembly in accordance with section 707 of the Standard Specifications for Construction.

After welding and drilling or punching holes is complete, hot-dip galvanize the assembly in accordance with subsection 707.03.C.17 of the Standard Specifications for Construction.

Grind concrete edges and surfaces as approved by the Engineer to facilitate wall-mount support installation.

Locate steel reinforcement in the wall prior to drilling for adhesive anchor or thru-bolts using a pachometer or other Department-approved methods.

Install and test adhesive anchors in accordance with section 712 of the Standard Specifications for Construction.

Remove and salvage turf behind the wall in the area of the rear brackets. Excavate behind the wall as necessary to install the rear bracket plate.

After installation of thru-bolts, fill the annular space in the bolt holes with non-shrink grout.

After installation is complete, backfill with the excavated material and replace the salvaged turf.

Field drilling of holes to facilitate the connection to the truss may be allowed, if approved by the Engineer, at no cost to the contract.

Repair damage to galvanization in accordance with subsection 716.03.E of the Standard Specifications for Construction at no cost to the contract.

**e. Measurement and Payment.** The completed work, as described, will be measured and paid for at the contract unit price using the following pay items:

<b>Pay Item</b>	<b>Pay Unit</b>
Truss, Type E, Wall Mtd Support, Face .....	Each
Truss, Type E, Wall Mtd Support, Top .....	Each

The pay items **Truss, Type E, Wall Mtd Support, Face** and **Truss, Type E, Wall Mtd Support, Top** will be measured for each end of a truss supported on a wall.

**Truss, Type E, Wall Mtd Support, Face** and **Truss, Type E, Wall Mtd Support, Top** includes all necessary labor, equipment, and materials to furnish, fabricate, and erect the structural steel assembly in accordance with the plans, standard specifications, and as contained herein.

The unit price for **Truss, Type E, Wall Mtd Support, Face** includes the cost of testing the adhesive anchors.

The unit price for **Truss, Type E, Wall Mtd Support, Top** includes the cost of salvaging turf, excavation and backfill necessary to complete the work.