

MICHIGAN
DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION
FOR
PEDESTAL FOUNDATION, FLUSH

SIG:EMS

1 of 2

APPR:HLO:NJB:05-05-20
FHWA:APPR:05-06-20

a. Description. This work consists of furnishing and installing a pedestal foundation with an alternate three anchor bolt assembly, including base plate, hardware, connectors, fittings, conduit, grounding, and all associated material necessary to complete the work.

b. Materials. Provide material in accordance with section 921 and subsection 105.10 of the Standard Specifications for Construction and the following:

1. Concrete Pedestal Foundation. Provide a concrete pedestal foundation 24 inches round, or 22 inches square, and 48 inches deep. Ensure the foundation is in accordance with the typical signal construction details and this special provision. The foundation must accommodate aluminum pedestal poles up to 16 feet and a minimum 2 inch conduit.

2. Base Plate. Provide a 1¼ inch thick, round base plate fabricated from *ASTM B108/B108M, Aluminum Alloy 319.0-F*. Ensure the base plate has an outside diameter of approximately 9 inches and an inside diameter of 4½ inches (threaded), and must include a stainless steel setscrew. Ensure the base plate is designed to accommodate three evenly spaced anchor bolts with a bolt circle of 7 inches in diameter.

3. Foundation Anchor Assembly. Provide a foundation anchor assembly, including three *ASTM F1554, Grade 36* (hot dipped) galvanized steel anchor bolts, three stainless steel couplers and Type 304 or Type 316 base plate bolts. Provide a sufficient quantity of hardware with each assembly, including stainless flat washers, lock washers and hex head nuts. Ensure hardware is *AISI 300* series stainless steel.

4. Warranty. Provide a manufacturer's warranty, transferable to the MDOT, that the supplied materials are free from defects in materials and workmanship. Furnish the warranty and other applicable documents from the manufacturer, and a copy of the invoice showing date of shipment, to the Engineer prior to acceptance.

c. Construction. Complete this work in accordance with sections 819 and 820 of the Standard Specification for Construction and the applicable typical signal construction special details. Install pedestal foundation as shown on the plans, or as directed by the Engineer. Place the foundation with no construction joints. Place the conduit so that it extends above the top of the base plate a minimum of 1 inch.

Store or dispose of removed material in accordance with section 204 of the Standard Specification for Construction, or as directed by the Engineer.

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

Pay Item

Pay Unit

Pedestal Fdn, Flush.....Each