

## **ITEM 615.1246 07 - INSTALL BAT HOUSE SUPPLIED BY OTHERS**

### **DESCRIPTION**

This work shall consist of furnishing and erecting steel poles, and installing bat houses supplied by others in accordance with the contract documents and as directed by the Engineer.

### **MATERIALS**

**Steel Poles.** Steel poles shall conform to the requirements specified in subsection 710-10 A. Class A, Schedule 40 Pipe and galvanized both inside and out in accordance with ASTM F1083.

**Fasteners.** Bolts, nuts and washers shall conform to the following, unless specified otherwise in the contract documents:

Bolts	ASTM F568 Class 4.6 or A307
Nuts	ASTM A563M or A568, Grade A or better
Washers	ASTM F844

The fasteners shall be galvanized in accordance with subsection 719-01 Type II.

**Portland Cement Concrete for Bases.** Portland Cement concrete used for bases shall be either Class A or C conforming to the requirements of Section 501 Portland Cement Concrete -- General except that the requirements for automated batching shall not apply or be as detailed in the contract plans.

### **CONSTRUCTION DETAILS**

Install and secure bat houses on steel poles as shown on the contract plans.

All steel poles shall be embedded in concrete bases and set vertically. The contractor shall install temporary guys or bracing as may be required to hold poles in proper position until such time as the concrete has set sufficiently to hold the poles with attached bat houses.

The concrete bases shall be rough cast in the ground around the posts. The top surfaces shall be domed to shed water and provide a neat workmanlike appearance when completed. Extensions of up to 45 minutes for the allowed time for pouring the concrete will be permitted.

### **METHOD OF MEASUREMENT**

This work will be measured as the number of bat houses satisfactorily installed on steel poles.

### **BASIS OF PAYMENT**

The unit price bid shall cover the cost of furnishing all labor, materials, tools and equipment necessary to satisfactorily complete the work and shall include all necessary excavation and disposal, concrete, bracing and all other necessary materials.