

## **SECTION 670 TRAFFIC CONTROLLER ASSEMBLIES**

### **670-1 Description.**

Furnish and install a traffic controller assembly or flashing intersection control beacon controller assembly as shown in the Plans. Meet the requirements of Section 603.

### **670-2 Materials.**

Use only controller components listed on the Department's Approved Product List (APL). Traffic controller assemblies and intersection control beacon controller assemblies must be permanently marked with manufacturer name or trademark, part number and serial number. Markings must be visible after installation.

Provide a traffic controller assembly consisting of a traffic controller, traffic controller accessories (including monitors, load switches, flasher, flash transfer relay, power supplies), and other equipment wired into a controller cabinet to make a complete and operational assembly. All traffic controller assemblies must provide functionality that meets or exceeds operational characteristics, including NTCIP support, as described in NEMA TS-2-2003.

**670-2.1 Traffic Controller:** Meet the requirements of Section 671.

**670-2.2 Traffic Controller Accessories:** Meet the requirements of Section 678.

**670-2.3 Controller Cabinet:** Meet the requirements of Section 676.

**670-2.4 Flashing Intersection Control Beacon Controller Assembly:** A flashing intersection control beacon controller assembly must consist of a Type 3 flasher wired into a Type 1 controller cabinet to make a complete and operational assembly.

### **670-3 Installation Requirements.**

**670-3.1 Controller Cabinets:** Meet the requirements of Section 676.

**670-3.2 Field Wiring:** Meet the requirements of Sections 632 and 676.

**670-3.3 Grounding:** Meet the requirements of Sections 620 and 676.

**670-3.4 Equipment Placement:** Install all equipment in the cabinet in accordance with the manufacturer's recommendations.

### **670-4 Method of Measurement.**

The Contract unit price per assembly for traffic controller assembly or intersection control beacon controller assembly will include all labor, equipment, and miscellaneous materials necessary for a complete and accepted installation.

### **670-5 Basis of Payment.**

Prices and payments will be full compensation for all work specified in this Section.

Payment will be made under:

- |                  |                                                                 |
|------------------|-----------------------------------------------------------------|
| Item No. 670- 4- | Intersection Control Beacon Controller Assembly - per assembly. |
| Item No. 670- 5- | Traffic Controller Assembly - per assembly.                     |