

**SECTION 02743****LOOP DETECTOR AMPLIFIERS****02743.01 GENERAL****A. Description**

Loop detector amplifiers shall include, but not necessarily be limited to, furnishing and installing loop detector amplifiers in base and/or pole mounted cabinets as shown on the Plans and in accordance with the Contract Documents or as directed by the Engineer. All loop detector amplifiers shall be capable of delay output, and all amplifier-wiring harnesses shall be wired to accommodate the delay function.

**B. Related Work Included Elsewhere**

1. General electrical work; Section 02730.
2. Loop detectors; Section 02742.

**C. Quality Assurance**

1. The Engineer will inspect all materials and work to ensure compliance with the Contract Documents.
2. All equipment and material shall be covered by a manufacturer's warranty for a period of 2 years minimum.

**D. Submittals**

1. Shop Drawing

Shop drawings shall be submitted as specified in the "General Provisions" for all loop detector amplifiers. The shop drawings shall include general product information, parts lists, wiring diagrams, and installation instructions.

2. Certificates of Compliance

Certificates of compliance shall be submitted as specified in the "General Provisions" for all amplifiers stating that the units meet all the requirements specified in Section 02744.02.

**02743.02 MATERIALS****A. Materials Furnished by the County**

The County will not furnish any materials for loop detector amplifiers.

**B. Contractor's Options**

Not applicable.

**C. Detailed Material Requirements**

All sensor units, control units, and amplifiers shall meet the requirements of the National Electrical Manufacturers' Association.

**02743.03 EXECUTION****A. General**

Loop detector amplifiers shall be installed in controller cabinets at locations shown on the Plans in accordance with NEMA specifications and the manufacturer's recommendations.

**02743.04 METHOD OF MEASUREMENT**

Measurement for loop detector amplifiers will be made of the number satisfactorily installed.

**02743.05 BASIS OF PAYMENT**

Payment for loop detector amplifiers will be made at the price bid for each installed complete in place. The price bid shall include furnishing and installing vehicle loop detector amplifiers, wiring, electrical connections to the controllers, tuning of the amplifiers, and all materials, equipment, labor, and incidentals necessary to complete this item of work as shown and specified in strict accordance with the Contract Documents.