

ITEM 05555.99 M - PRECAST CONCRETE FASCIA PANELS

Description

The work shall consist of fabricating, furnishing, and installing precast concrete fascia panels at the locations indicated on the plans.

Materials

Materials for this work shall conform to the following:

| | |
|-------------------------------------|--------|
| Precast Concrete - General | 704-03 |
| Preformed Closed Cell Foam Material | 705-08 |
| Plain Rubber Pad | 728-03 |

Angles and Plates (Structural Steel). Steel used shall conform to the requirements of ASTM A588M. It shall also meet the requirements of §715-01.

Headed Concrete Anchor Studs and Threaded Studs. These shall conform to the requirements of §709-05. They shall be furnished in the dimensions indicated on the Contract Plans.

Bolts, Nuts and Washers. The steel used for fasteners shall conform to the requirements of ASTM F568 Class 4.6 or ASTM A325M.

Connection Inserts. As indicated on the Contract Plan.

Keyway Material. This material shall meet the requirements of the Prestressed Concrete Construction Manual (PCCM), Section 420.2.

Construction Details

The Contractor (Fabricator) shall fabricate the panels in accordance with the provisions of §704-03. Working drawings shall be approved by the Director, Materials Bureau prior to any fabrication. The Contractor (Fabricator) shall verify panel reinforcement based upon their proposed locations of lifting devices and the resulting handling stresses. The computations shall be stamped by a licensed Professional Engineer and shall accompany the Working Drawing submission. The Contractor (Fabricator) shall field verify controlling dimensions required for all panels prior to fabrication. If field dimensions vary from those indicated on the Contract Plans, the Engineer shall be immediately notified.

The Contractor shall erect panels following completion of flooring system element construction but prior to deck casting.

Panels shall be installed such that the intrados line is smooth and unbroken. All exposed faces shall be flush with each other.

The Contractor shall use extreme care during erection not to damage the panels in any way. Any damaged panels shall be rejected and removed from the work site.

The Contractor shall provide all temporary supports and bracing as required to maintain position, stability and alignment as panels are being permanently connected. The bolted tie-back

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connections shall be securely tightened. Welding shall be done in accordance with the Steel Construction Manual. Positive bearing shall be maintained on the rubber pad (corbel support) so as not to suspend the panel on the bolted and welded tie-back connections. If additional thickness of rubber pad is required to maintain full gravity support, the Contractor shall remove and replace the pads with the necessary thickness at no cost to the State. Final bolting and welding of the tie-back connections shall not be done until all corrective alignment measures are completed.

Keyways between successive panels (except at bridge expansion joints) shall be filled with grout material meeting the requirements of the PCCM, Section 420.2. Keyway surface preparation shall be in accordance with the PCCM, Section 730.51. The grout material shall be struck off flush with surface of the panels. Grout material curing shall be in accordance with the PCCM, Section 730.54(4).

Method of Measurement

Measurement will be taken as each panel installed.

Basis of Payment

The unit price bid for each panel shall include the cost of all labor, materials and equipment necessary to complete the work.

Ninety percent (90%) of the unit price will be paid after the panel is installed in the erected position.

The remaining ten percent (10%) will be paid after all joints and keyways are filled and all bolt holes covered as required.