

## **ITEM 01557.89 M - PRECAST CONCRETE MONOLITHIC DECK PANELS**

### **DESCRIPTION:**

The work shall consist of furnishing and installing precast concrete monolithic deck panel units at the locations and in accordance with the details indicated on the Plans.

### **MATERIALS:**

Precast Panel Units. These shall be fabricated from the materials and in accordance with the procedures required by the Prestressed Concrete Construction Manual (PCCM) and the following modifications:

1. Actual panel unit length will be determined by the Contractor and verified by the Engineer from field measurements.
2. Concrete compressive strength of each panel unit shall average 34 500 kPa at 28 days. Panel strength will be determined in lot quantities. A lot is defined as ten panel units, or a single day's production, whichever is less.
3. Reinforcing bars shall conform to the requirements of Subsection 709-01.
4. Working drawings shall not be required, unless there are changes made to the plans by the contractor and/or subcontractor.
5. Erection drawings will be delivered to the Engineer for review and approval at least five (5) working days prior to the intended installation date.
6. The fabricator shall erect the precast slab panels in his yard to test the fit of the adjacent panels.
7. All tolerances for panel unit width, depth and sweep shall be  $\pm 6$  mm and length shall be  $\pm 13$  mm.
8. Each panel unit shall be identified in accordance with the marking system shown on the Plans.
9. PCCM requirements which are obviously intended for prestressed concrete applications shall not apply.

Joint materials (grout and sealant) shall be those specified on the Plans.

In lieu of customary inspection by the DCES of in-process fabrication, the contractor shall supply to the DCES certification by a professional engineer licensed to practice in the State of New York that the precast concrete monolithic deck panels were constructed as per the plans and specifications. Also the contractor shall supply concrete cylinder test results for each slab to the DCES.

### **CONSTRUCTION DETAILS:**

Precast units shall be inspected, stored, handled, repaired and erected in accordance with the requirements of the PCCM. The marking system indicated on the Plans shall be followed. The approved erection drawings shall be followed. No work shall be done without the Engineer's approval.

Joint materials shall be placed where indicated on the Plans. Manufacturer's instructions shall be strictly followed. The Engineer shall be supplied with two copies of the manufacturer's instructions at least five working days prior to the date of installation.

### **METHOD OF MEASUREMENT:**

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Payment will be made at the unit price bid per square meter for the number of square meters of structural slab stated in the Estimate of Quantities shown on the Contract Plans. The figure shown in the Estimate of Quantities shall be used to compute payment.

### **BASIS OF PAYMENT:**

The unit price bid per square meter shall include the cost of all labor, materials and equipment necessary to complete the work.