

ITEM 16563.60 M - PRESTRESSED CONCRETE BOX BEAM UNITS USING HIGH PERFORMANCE CONCRETE FOR BEAMS

ITEM 16563.61 M - PRESTRESSED CONCRETE I-BEAM UNITS USING HIGH PERFORMANCE CONCRETE FOR BEAMS

ITEM 1656362 M - PRESTRESSED CONCRETE BULB TEE UNITS USING HIGH PERFORMANCE CONCRETE FOR BEAMS

DESCRIPTION:

This work shall consist of furnishing and placing prestressed units made from high performance concrete, as specified in the contract documents.

MATERIALS:

The requirements of §718 - 47 and the PCCM shall apply.

CONSTRUCTION DETAILS:

The provisions of the P.C.C.M shall apply except as modified herein.

Control of Differential Camber: For bridges build in stages, with some of the beams erected and the deck placed prior to erection of the remainder of the beams, control of differential camber shall be by storing each beam until it has attained an age of at least 56 days before it is coated and shipped. The Contractor may propose an alternate method for controlling differential camber subject to approval by the DCES.

METHOD OF MEASUREMENT:

Prestressed Concrete I-Beam and Bulb Tee Units. The quantity to be paid for under this work shall be the number of meters (horizontal length center-to-center of bearings or anchor dowels, as shown on the plans) of each unit furnished and placed in accordance with the plans and specifications.

Prestressed Concrete Box-Beam Units. The quantity to be paid for under this work will be the number of square meters of plan area of each prestressed unit installed. Plan area is defined as the area bounded by the centerline of bearings and the outer edge of each prestressed unit. No deductions will be made for chamfers, or shear keys, or notch outs. Space between the units greater than 50 mm shall not be included in any measurement.

BASIS OF PAYMENT:

The unit price bid for these units shall include all labor, materials and equipment necessary to complete the work except that bearings will be paid for under their respective items.

Damaged units which cannot be satisfactorily repaired or which do not meet dimensional and camber tolerances shall be replaced by the Contractor at no cost to the State.

Progress payment will be made when each unit is furnished and placed in accordance with the plans and specifications exclusive of preparing and filling joints. Payment will be made at the unit price bid for 90% of the quantity properly placed, less any payment made under subsection 109-04. The balance of the quantity will be paid for upon completion of the work. The completion of work will include the correct preparation and filling of the joints as well as the tightening of transverse ties.