

983.	Dumped Riprap	Metric Ton
983.1	Riprap	Metric Ton
984.	Stone and Stone Chips for Waterway Revetments, Groins, Jetties, Breakwaters and Mounds	Metric Ton
985.	Slope Paving	Square Meter
986.	Modified Rockfill	Metric Ton
987.	Special Slope Paving under Bridge - Option	Square Meter
987.1	Special Slope Paving under Bridge - Quarry Stone	Square Meter
987.12	Special Slope Paving under Bridge - Quarry Stone (Grouted)	Square Meter
987.2	Special Slope Paving under Bridge - Precast Concrete Blocks	Square Meter
987.3	Special Slope Paving under Bridge - Cement Concrete Masonry	Square Meter
988.	Channel Paving	Square Meter
988.1	Grouted Channel Paving	Square Meter
120.	Earth Excavation	Cubic Meter
140.	Bridge Excavation	Cubic Meter
141.	Class A Trench Excavation	Cubic Meter
143.	Channel Excavation	Cubic Meter
151.	Gravel Borrow	Cubic Meter
156.	Crushed Stone for Drainage Foundation	Metric Ton

## **SECTION 995**

### **BRIDGE STRUCTURE**

#### **DESCRIPTION**

#### **995.20 General.**

Work included in this section shall consist of constructing bridge structures in accordance with the designs and to the lines and grades shown on the plans, and in accordance with these specifications complete in place including the furnishing and installation of all materials that are part of the structures. The work also includes approach slabs, wing

walls and retaining walls when specified.

The work under this section does not include the various classes of excavation, bituminous concrete pavement, any work on piles, backfill, revetments, temporary structure, removal of present superstructure, cofferdams, control of water, or other items noted in the contract.

### MATERIALS

#### 955.40 General.

The materials to be used shall be in accordance with the applicable sections of these specifications and/or the Special Provisions for each respective item included in the construction of the structure.

### CONSTRUCTION METHODS

#### 955.60 General.

The method of construction shall be in accordance with the applicable sections of these specifications and the Special Provisions for each respective item.

### COMPENSATION

#### 995.81 Basis of Payment.

The above work will be paid for at the contract lump sum price under the respective item of "Bridge Structures". Where more than one structure is included in the Contract the following provisions shall apply to each structure. Where reference is made to other sections in these specifications, the parts thereof which apply to payment are specifically excluded.

Except as stipulated in the following paragraphs, the payment shall be a lump sum for each bridge structure complete in place. In general, payment will include the full compensation for all concrete (including approach slabs, and all concrete sidewalks adjacent to the wingwalls), prestressed concrete beams and deck beams, steel reinforcement for structures, structural steel, shear connectors, bituminous damp-proofing, membrane waterproofing, protective course, curbing, edging, scuppers, drains, bridge railings, concrete penetrant sealer and incidental work such as flashings, waterstops, fillers, tile under sidewalk, brickwork at parapet walls, crushed stone for weep holes, fastenings, painting and other materials, equipment and labor that are indicated or implied as part of the construction for the bridge structure. Payment for each bridge structure includes all work indicated on the plans under one bridge number even though two or more structures may be included under one bridge number, due to a wide center reservation or some other physical feature. Walls, other than wingwalls or connecting walls between the structures, will not be included for payment under an item for Bridge Structure unless specifically included in the Special Provisions or indicated on the plans.

When the Engineer orders changes made in the plans that reduce or increase the quantity of concrete, such changes will be compensated for as follows:

For additional quantities of concrete ordered by the Engineer for footings and unreinforced gravity walls, the Contractor will be paid at the rate of \$100.00 per cubic meter for cement concrete masonry placed in excess of that indicated on the plan drawings.

If changes are made that require less concrete than that indicated on the plan drawings for footings and unreinforced gravity walls, the payment to the Contractor under the item for Bridge Structure will be reduced at the rate of \$65.00 per cubic meter for the difference in volume of concrete as indicated on the plan drawings and the actual volume of concrete used in construction as measured in place.

The cost of any other changes from the contract plans for any of a bridge structure included under the respective item shall also be on a negotiated lump sum price regardless of the quantity of the change. No work shall be done on any of such changes in concrete or other elements until the price has been agreed on in writing between the Contractor and the Engineer.

The negotiated cost (increase or decrease) of each change will be based on the provisions of Subsection 4.03.

Where more than one structure is included in the contract under separate items, the foregoing paragraphs apply to each structure separately, and only to the structure for which changes are ordered.

Placing concrete on the deck in excess of that shown on the plans, to compensate for camber of structural steel, will not be considered a change from the plans. Full compensation for the additional concrete is included in the lump sum bid price.

*Basis for Partial Payments.*

Within 10 days after award of the contract, the Contractor shall submit, in duplicate, for approval by the Engineer, a schedule of the quantities and unit prices for the major components of the respective items for Bridge Structure as listed in the Special Provisions. Each component part shall be considered as including all its concomitance so that the total cost listed for the components is the contract cost for the item. The approval of the schedule by the Engineer shall not be considered as a guarantee to the Contractor that the quantities shown on the schedule are the approximate quantities actually included in the structure as indicated on the plans. The schedule is only for the purpose of estimating partial payments, and it shall not affect the contract terms in any way.

The volume occupied by the tile under the sidewalk shall be considered as an equivalent volume of cement concrete. Fillers, flashings, brickwork at parapet walls, tar paper, fastenings, painting and other materials and work shall be included with the appropriate components.

The schedule shall list the item, the quantity and the unit of measurement, the Contractor's price per unit, the amount for the item, and the total that the Contractor bid for the lump sum.

Each schedule applies only to the respective bridge structure. Similar materials and constructions at other locations are not included in the schedule.

**995.82 Payment Item.**

995.	Bridge Structure Bridge, No. (____)	Lump Sum
999.995	Increase in Concrete Quantity	Cubic Meter
999.996	Decrease in Concrete Quantity	Cubic Meter