

**ITEM 11576.1105 M - Cleaning Prestressed Concrete Channel Troughs, Including Curb Drains Over 0 m to 25 m**

**DESCRIPTION:**

The work shall consist of cleaning and removing blockages that impede the flow through curb drains and troughs and testing the cleaned troughs system. The work shall be accomplished at the locations indicated in the Table of Locations for Drainage System Cleaning or where directed by the Engineer.

**MATERIALS:**

Not specified. All equipment shall be approved by the Engineer prior to actual use.

**CONSTRUCTION DETAILS:**

Cleaning: The existing curb drain including the area within 2 meters of the roadway and the existing trough, and 0.5 m of downspout leading from the trough shall be cleaned by hand or by using vacuum, or other techniques satisfactory to the Engineer. Chemical cleaning compounds shall not be used during cleaning or flushing operations, unless permission has been granted by the Regional Director for their use. All damage to the trough or curb drain elements that occurs during cleaning operations shall be repaired by the Contractor to the satisfaction of the Engineer at no additional cost to the State. Debris from the cleaning operations shall not be deposited in, or around the structure, highway, roadway slopes, drainage systems or streams. It shall be disposed of in an environmentally safe manner acceptable to the Engineer.

Testing: The Contractor shall submit a test method to determine the flow characteristics of the cleaned troughs to the Engineer for approval prior to the commencement of cleaning operations. Acceptable test methods are, but are not limited to, water testing and dye testing. Immediately after cleaning has been completed, the Contractor shall, in the presence of the Engineer, perform the approved test at the location(s) designated by the Engineer. If, in the Engineer's opinion, the flow is impeded, the Engineer shall determine whether recleaning the trough within the prescribed limits is required, or direct the Contractor to clean the remaining portion of the system. Recleaning, if required, shall be at no additional cost to the State. Cleaning the remaining portion of the system shall be performed, and payment made under the appropriate item for cleaning downspouts.

Weather limitations: Cleaning or testing operations requiring the use of water shall not be conducted when the air temperature is below 0° C without prior approval of the Engineer.

**METHOD OF MEASUREMENT:**

Troughs satisfactorily cleaned shall be paid for on an each basis for the length category specified in the Table of Locations for Drainage System Cleaning. No field measurements shall be taken.

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**BASIS OF PAYMENT:**

The unit price bid for cleaning each trough shall include the cost of furnishing all labor, materials, removal of debris and equipment necessary to complete this work. The unit price bid shall also include the cost of testing, as well as the removal and resetting of grates, manhole covers, etc., for such testing. No separate payment will be made for cleaning curb drains.

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