

**ITEM 605.98101809 - SMOOTH INTERIOR CORRUGATED POLYETHYLENE  
PIPE, TYPE SP, PERFORATED FOR UNDERDRAIN,  
450 MILLIMETER DIAMETER**

**DESCRIPTION**

The work shall consist of furnishing and installing Smooth Interior Corrugated Polyethylene Pipe (SICPP) for drainage of Surface Sand Filters at the locations indicated on the plans, in accordance with this specification, or as directed by the Engineer.

**MATERIALS**

The SICPP shall conform to the requirements of Subsection 706-12, Smooth Interior Corrugated Polyethylene Pipe, of the Standard Specifications. The pipe shall be Type SP with Class 2 perforations for underdrain applications. Underdrain filter materials shall consist of screened gravel, crushed stone, crushed gravel, or crushed slag meeting the requirements of Section 605-2.02 Granular Filter Materials.

Material shall be supplied by a supplier from the Approved List.

**CONSTRUCTION DETAILS**

The following requirements shall apply.

**Excavation.** Width of excavation at trench bottom shall be measured as shown on the plans.

**Laying Pipe.** All pipe shall be laid in reasonably close conformity to line and grade and shall have a full, firm and even bearing along the entire length of pipe. Pipe laying shall begin at the downstream end and progress upstream or as ordered by the Engineer. Any single run of pipe shall consist wholly of the same type material unless otherwise directed by the Engineer. In a closed drainage application, the upgrade end of a run need not be capped. End caps shall be used when deemed necessary by the Engineer.

**Handling and Assembly of Pipe.** All pipe shall be handled, stored and assembled in accordance with the Approved Materials Details except as modified on the plans or by the Engineer's written order. Two copies of Materials Details shall be provided by the supplier through the Contractor to the Engineer at least 10 days prior to shipment of the product to the job site. Lateral connections shall be made with appropriate fittings, supplied by the pipe manufacturer and approved by the Engineer. For inlet connections, installations shall be in accordance with the standard sheet entitled "Drainage Structure Details".

**Bedding and Backfilling Pipe.** When using SICPP, the type of materials to be used in bedding and backfilling shall be as shown on the plan drawings. Installation shall be in accordance with the details shown on the plan details and as specified herein. The use of water for settling of backfill in trenches will not be permitted.

**Damage.** Pipe that is damaged or disturbed through any cause occurring prior to acceptance of the contract, shall be replaced or realigned as directed by the Engineer at the Contractor's expense. Pipe that is defective from any cause, including damage caused by handling, will be unacceptable for installation and will be replaced as directed by the Engineer at no cost to the State. Pipe with damaged ends may be incorporated into the work at terminal locations and only if the damaged portion is totally removed by the field cut. Repair or replacement of pipe that is disturbed, damaged, or misaligned shall provide the same product as a new pipe installation, as determined by the Engineer.

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**METHOD OF MEASUREMENT**

The provisions of §605-4 Method of Measurement shall apply.

**BASIS OF PAYMENT**

The provisions of §605-5 Basis of Payment shall apply.