

**ITEM 01605.15XX M - SMOOTH INTERIOR CORRUGATED POLYETHYLENE UNDERDRAIN PIPE**

**DESCRIPTION:**

The work shall consist of furnishing and installing smooth interior corrugated polyethylene pipe for drainage in accordance with this specification and in conformity with the lines, grades and sections shown on the Plans.

**MATERIALS:**

The smooth lined corrugated polyethylene underdrain pipe shall conform to the requirements of AASHTO M294, except that the perforations shall conform to AASHTO M-36, Section 8.3.2.1.

The pipe also must exceed the minimum engineering property values as specified in Section 18 of the AASHTO Standard Specifications for Highway Bridges. These properties are listed below:

<b>SECTION PROPERTIES - PE CORRUGATED PIPES</b>				
<b>I.D. (mm)</b>	<b>O.D. (mm) TYPICAL</b>	<b>A (mm<sup>2</sup>/m)</b>	<b>C (mm) MAXIMUM</b>	<b>I (mm/mm) <sup>4</sup></b>
300	350	3175	15.9	393
375	450	4043	22.2	869
450	536	4953	21.6	1016
600	699	6646	28.8	1901

Basis of Acceptance. Acceptance of this material will be based on the manufacturer's name appearing on the Department's Approved List and the manufacturer's certification of compliance with these requirements.

**CONSTRUCTION DETAILS:**

The following provisions of Section 603, Culverts and Storm Drains shall apply for the installation of the pipe:

- Subsection 603-3.01           Excavation
- Subsection 603-3.02A & B   Laying Pipe, General & Handling and Assembly of Pipe
- Subsection 603-3.03        Bedding and Backfilling Pipe
- Subsection 603-3.04A       Damaged Pipe and Repair General

**METHOD OF MEASUREMENT:**

This work will be measured as the number of linear meters of pipe installed. Measurement will be made along the bottom center line of the pipe.

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**BASIS OF PAYMENT:**

The requirements of Subsection 603-5.01 shall apply.

Payment will be made under:

<b><u>ITEM NO.</u></b>	<b><u>ITEM DESCRIPTION</u></b>	<b><u>PAY UNIT</u></b>
01605.1512 M	Smooth Interior Corrugated Polyethylene Underdrain Pipe, 300 mm Diameter	Meter
01605.1515 M	Smooth Interior Corrugated Polyethylene Underdrain Pipe, 375 mm Diameter	Meter
01605.1518 M	Smooth Interior Corrugated Polyethylene Underdrain Pipe, 450 mm Diameter	Meter
01605.1524 M	Smooth Interior Corrugated Polyethylene Underdrain Pipe, 600 mm Diameter	Meter