

COMPRESSIBLE FILL

**\*\*From Rochester BRF 0162(16) Rochester BRF 0162(17) Rochester ER BRF 0162(18) Rochester ER STP 0162(19)**

- xx. DESCRIPTION. This work shall consist of furnishing and installing compressible fill and separation membrane as detailed on the Plans and as directed by the Engineer.
- xx. MATERIALS. Compressible fill shall be geotechnical grade elasticized expanded polystyrene (EPS). The EPS shall be elasticized, with a linear-elastic stress-strain behavior up to 10 percent strain and linear proportional stress-strain behavior up to 30 percent strain.

The EPS shall contain no chlorofluorocarbons (CFCs), hydrochlorofluorocarbons (HCFCs), hydrofluorocarbons (HFCs), or formaldehyde. It shall be chemically and biologically inert when in contact with acidic and alkaline soils. It shall be treated to prevent insect attack and shall contain a flame retardant additive.

The EPS shall be fabricated in solid panels with at least two of the dimensions greater than or equal to 300 mm (12 inches).

The separation membrane shall be an HDPE liner with a minimum thickness of 30 mil.

The materials shall withstand temperature variations from -40°C to 38°C (-40°F to 100°F) without deforming and shall maintain their original dimensions and placement without chipping, spalling, or cracking. Materials shall not deteriorate because of contact with sodium chloride, mild alkalis and acids, or other ice control materials.

The following suppliers have materials which meet the requirements for EPS specified herein:

GeoTech Systems Corporation  
Great Falls, VA 22066  
Tel.: 1-703-759-0300

Branch River Plastics  
Smithfield, RI 02917  
Tel.: 1-401-232-0270

Beaver Plastics Ltd.  
7-26318-TWP RD 531A  
Acheson, Alberta  
Canada T7X 5A3  
Tel.: 1-888-453-5961

Requests for substitutions for the above shall be submitted to the Agency's Office of Contract Administration a minimum of 10 days in advance of the bid opening date. Substitutions for the above after award shall be approved by the Structures Engineer prior to use.

- xx. INSTALLATION. The compressible fill shall be adhered to the structure or anchored in place utilizing materials and methods approved by the manufacturer.
- xx. METHOD OF MEASUREMENT. The quantity of Special Provision (Compressible Fill) to be measured for payment will be the number of cubic meters (cubic yards) complete in place in the accepted work, measured within the limits specified on the Plans or as directed by the Engineer.
- xx. BASIS OF PAYMENT. The accepted quantity of Special Provision (Compressible Fill) will be paid for at the Contract unit price per cubic meter (cubic yard). Payment will be full compensation for furnishing and installing the specified materials, including separation membrane, and for furnishing all labor, tools, equipment, and incidentals necessary to complete the work.

Payment will be made under:

<u>Pay Item</u>	<u>Pay Unit</u>
900.608 Special Provision (Compressible Fill)	Cubic Meter (Cubic Yard)