

ITEM 08604.5101nn M - STORMWATER TREATMENT SYSTEM (OIL/GRIT SEPARATOR)

DESCRIPTION:

This work shall consist of furnishing and installing a stormwater treatment system (oil/grit separator) in accordance with this specification as shown in the contract documents and as directed by the Engineer. The system shall also be tested and maintained until the installation has been approved by the Engineer.

MATERIALS:

All precast concrete materials shall meet the requirements of Section 704-03, *Precast Concrete - General*, of the Standard Specifications except the concrete shall have a minimum compressive strength of 35 Mpa at the end of 28 days.

The stormwater system shall be one of the following or an approved equal:

Vortechs System as manufactured by Vortechtechnics, Inc.,
41 Evergreen Drive, Portland, ME 04103
Phone (207) 878-3662

Downstream Defender as made by HIL Technology, Inc.
94 Hutchins Drive, Portland, ME 04102
Phone (207) 756-6212

Stormceptor as manufactured by CSR New England Pipe
69 Neck Road, Westfield, MA 01085
Phone (413) 562-8547 or (800) 331-4605

The contractor shall provide the manufacturer's procedures and detailed shop drawings to the Engineer prior to the installation. All sizes and invert elevations shall be checked by contractor and verified by the Engineer, to assure proper installation of the unit prior to installation of pipes at the unit. Sizing of the unit will be based on the Peak Design Flow and/or Design Capacity, Minimum Oil Storage Capacity and Minimum Sediment Storage Capacity as indicated on the plans. Inlet and outlet pipe diameters will be as required by the manufacturer and/or as indicated on the plans.

CONSTRUCTION DETAILS:

The contractor shall follow the procedures established by the manufacturer for installation and field testing.

The contractor shall be responsible for cleaning the system when needed, maintaining

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performance / efficiency, and keeping record of maintenance inspections until the system is approved by the Engineer. If system is not functioning as outlined in the Operation and Maintenance Manual for the system, then the contractor, with the Engineer's approval, shall take the necessary steps to diagnose and correct problems.

Final approval of the installation will be made by the engineer verifying that the system has been installed, field tested and was functioning as outlined in the Operation & Manual for the system.

METHOD OF MEASUREMENT:

This work will be measured as the number of the each stormwater treatment systems installed in accordance with this specification.

BASIS OF PAYMENT:

The unit price bid for each stormwater treatment system shall include the cost of all labor, materials, equipment necessary to complete the work, and necessary maintenance until the installation has been approved by the Engineer.

The cost of excavation, backfill, sheeting, and outlet/inlet pipes will be paid for under their respective items.

NOTE: nn in the item number denotes locations of the system.

This Spec is
DisApproved