

ITEM 208.5201 08 – STORMWATER DETENTION MODULE SYSTEM

DESCRIPTION:

This work shall consist of furnishing and installing a Stormwater Detention Module System in accordance with this specification, as shown in the contract documents and as directed by the Engineer. The system shall also be routinely inspected, cleaned and maintained for the duration of the contract.

MATERIALS:

All stormwater chambers and surrounding crushed stone shall meet the requirements of the respective manufacturer and the contract documents. The geotextile material shall conform to the requirements of Section 207-2.01. The geogrid material shall conform to the requirements of Section 737-07.

The stormwater detention module system shall be one of the following:

Rainstore3
Invisible Structures, Inc.
1600 Jackson Street, Suite 310
Golden, CO 80401

Storm Tank
Brentwood Industries, Inc
610 Morgantown Road
Reading, PA 19611

Rain Tank
ACF Environmental
2831 Cardwell Road
Richmond, VA 23234

The contractor shall provide the manufacturer's standard sheets, installation details and operations and maintenance manuals to the Engineer ten days prior to the installation.

The system shall be designed to withstand a minimum MS-18 highway loading.

The system shall include inspection and maintenance ports per the manufacturer.

CONSTRUCTION DETAILS:

The configuration of the system with respect to the drainage system shall be as shown on the plans. Inlet and outlet pipe diameters and inverts shall be as shown on the plans.

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The module layout shall be as shown on the plans or as directed by the Engineer.

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

The contractor shall be responsible for cleaning the system when needed, maintaining performance/efficiency testing and keeping a record of maintenance inspections for the duration of the contract. If the system is not functioning as outlined in the operation and maintenance manual the contractor with the Engineer's approval shall take the necessary steps to diagnose and correct the problems at no cost to the State.

Final approval of the installation will be made by the Engineer verifying that the system has been installed, field tested and functioning as outlined in the operation and maintenance manual for the system.

METHOD OF MEASUREMENT:

This work will be measured as the number of cubic meters of Stormwater Detention Module System installed in accordance with this specification and approved by the Engineer.

BASIS OF PAYMENT:

The unit price bid for the Stormwater Detention Module System shall include the cost of all labor, materials, equipment necessary to complete the work, including, inspection and maintenance ports including frame, cover and concrete collar, geotextile, geogrid, crushed stone, all necessary excavation, backfill, sheeting, pipe connections, and necessary maintenance for the duration of the contract.

The cost of the inlet and outlet pipe(s) will be paid for under their respective items.

Seventy-five percent of the price bid for this item will be paid upon satisfactory installation of the system. The remaining percentage will be paid after the system is satisfactorily cleaned at the completion of the contract.