

ITEM 10209.30 M - LEACHING RING ENERGY DISSIPATOR FOR DEWATERING

DESCRIPTION:

This work shall consist of furnishing and installing a leaching ring energy dissipator and turbidity curtain through which sediment laden water will be pumped.

MATERIALS:

The 3010 mm diameter, 1525 mm high leaching ring shall meet the requirements of Subsection 706-04 of the NYS Standard Specifications.

Stone filling (light) shall meet the requirements of Subsection 620-2.02 of the NYS Standard Specifications.

The geotextile fabric to be used beneath and inside the walls of the leaching ring shall be listed under the turbidity curtain (TC) category on the Department's Approved List. A geotextile on the Department's Approved List shall be accepted on the basis of the brand name labeled on the geotextile or the geotextile container.

CONSTRUCTION DETAILS

The Contractor shall install the Leaching Ring Energy Dissipator in accordance with these specifications and in reasonably close conformity with the details shown on the plans or specified by the Engineer.

The capacity of the leaching ring shall meet the volume of water that the Contractor anticipates will be pumped into the ring.

In the event of conflict between these specification requirements and pollution control laws, rules or regulations by other Federal or State or local government agencies, the more restrictive laws, rules or regulations shall apply.

All Leaching Ring Energy Dissipators shall be inspected and maintained during the life of the project, including winter shutdown, etc., and such maintenance and inspection shall continue until the units are ordered to be removed by the Engineer. All sediment collected in the units shall be removed from the site. All material that accumulates shall be disposed of by the Contractor in accordance with any State and Federal requirements.

In the clearing of the excess sediment from the leaching ring, if stone is needed to replace the existing, the replacement stone shall be included in the bid price for the item.

The leaching ring shall be located for ease of clean out and disposal of the trapped sediment and to minimize the interference with construction activities and wetland plants.

The Contractor's schedule shall reflect the incorporation of all permanent erosion and sediment control features into the project at the earliest practical time consistent with good construction and management practices for the dewatering operation.

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The leaching ring shall be placed level in the water so that the maximum depth in the water shall not exceed 0.6 m. Should tidal action exist and the difference in height is greater than the height of one ring, the Contractor shall install a second ring on top of the first.

The inside walls and bottom of the leaching ring shall be lined with a geotextile fabric attached to the concrete ring through the leaching holes by using wire ties or equal. Should any rips occur in the fabric, the Contractor shall repair the rip with a patch covering the hole a minimum of 0.3 m on all sides around the hole.

A stone fill shall be placed inside the ring to cover the vertical walls. The Contractor shall fill the system with stone to fill within 1.0 m of top of unit.

The discharge from the dewatering operation shall be directed into the center of the ring. The size and number of pipes used in the dewatering shall not exceed the flow rate through the leaching ring. The Contractor shall be responsible for inspecting and cleaning out the leaching ring when the leaching ring is one third full or as ordered by the Engineer. The leaching ring shall be cleaned by using methods approved by the Engineer.

The Contractor shall insure that any discharge will not cause any erosion problems. Should the problem exist after the system is installed, the contractor shall be responsible to repair the site at no additional cost to the State.

Temporary soil erosion and sediment control may include construction work outside the right-of-way where such work is necessary as a result of highway construction. Legal right of access will be provided by the State in accordance with Subsection 107-14, Furnishing Right-of-Way.

All Leaching Ring Energy Dissipators shall be inspected and maintained during the life of the project, including winter shutdown, etc., and such maintenance and inspection shall continue until permanent stabilization measures are in place and the temporary control measures are ordered to be removed by the Engineer.

METHOD OF MEASUREMENT:

The work will be measured as the number of Leaching Ring Energy Dissipators that are installed.

If a second ring is specified for use in tidal areas, the Contractor will be paid the unit price bid for the second ring.

BASIS OF PAYMENT:

The unit price bid for each Leaching Ring Energy Dissipator shall include the cost of stone filling, geotextile fabric, cleaning, installation, removal of sediment, and all other equipment, labor and materials necessary to complete the work. The Contractor will be paid 80% of the bid price upon the installation of the Leaching Ring Energy Dissipator and the remaining 20% upon its removal upon completion of the project as ordered by Engineer.

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