

ITEM 283.2

CONCRETE WEIR

LINEAR FOOT

Work under this item shall conform to the relevant provisions of Subsection 500 of the Standard Specifications and the following:

GENERAL

Concrete weirs shall be used in vegetated and bioretention swales to withhold stormwater runoff and allow time to infiltrate. If used in a continuous swale, the openings within weirs in series shall be staggered. In no case shall weir openings be placed to line up. The same material shall be used for all weirs in a continuous swale.

MATERIALS

Weirs shall be placed on a crushed stone base in accordance with specifications for Item 156.12, Crushed Stone for Curb Foundation.

Weirs shall be backfilled with concrete conforming to 4000 PSI, 1.5 Inch, 535 Cement Concrete.

Concrete Weirs shall be precast concrete panels in accordance with M4.02.14. The panels shall be 6" wide, 24" deep, with a length as shown on the Plans. The reinforcing shall be as shown on the Plans. The panel shall have a smooth finish on the top and both sides. A notch shall be formed into the weir, at the factory, as shown on the Plans. The notch shall be clean and smooth.

The penetrant/sealer shall be in accordance with M9.15.0, Division III of the Massachusetts Standard Specifications for Highways and Bridges.

CONSTRUCTION METHODS

The Contractor shall excavate a sufficient area in depth and width in order to install the weir on a crushed stone base in accordance with the Plans. Weir shall be cleaned of all debris prior to placement.

After the precast panels are on-site, the Contractor shall verify the fit of the panel. Once verified, the penetrant/sealer shall be added to both sides, the full depth of each side and the top, including all sides of the notch.

The Contractor shall backfill the weir with 6" concrete support as shown on the Plans.

The joints between the weir and roadway/sidewalk curbing (both front and back) shall be carefully filled with cement mortar and neatly pointed on the top and all exposed portions. After pointing, the weir shall be satisfactorily cleaned of all excess mortar that may have been forced out of the joints.

METHOD OF MEASUREMENT

Concrete Weir will be measured for payment by the linear foot, complete in place.

BASIS OF PAYMENT

Concrete Weir will be paid for at the Contract unit price per linear foot, which price shall include all labor, materials, equipment, and incidental cost required to complete the work. No separate payment will be made for excavation, concrete, and mortar, but all costs in connection therewith shall be included in the Contract unit price bid.

Crushed stone will be paid for separately under Item 156.12, Crushed Stone for Curb Foundation.