

ITEM 03560.03 M - REPLACING CONCRETE CAP ON ERIE CANAL WALL

DESCRIPTION:

This work shall consist of removing and disposing the existing concrete cap, repairing the upper limestone courses of the canal wall as required, and pouring a new concrete cap as shown on the plans or as directed by the Engineer. Canal wall stone that is removed with the existing concrete cap, or that is dislodged from its position in the existing wall, shall be cleaned and reset in accordance with these specifications. New stone shall be accepted as approved by the Engineer.

MATERIALS:

Stone:

The provisions of Section 560-2, Materials, and 704-09, Stone Blocks, shall apply with the following additions and modifications:

Existing stone masonry shall be reset as approved by the Engineer. The contractor shall supply additional stone, if necessary, to reset the upper courses of the wall as required A.O.B.E.. Additional stone shall be shaley limestone from a local quarry. Stone shall be stockpiled at the site and approved by the Engineer. The stone shall resemble existing stone in size, shape and color. Only smaller sized stones shall be accepted and shall have the following approximate dimensions: length - 300 to 500 mm; width - 400 mm; and depth - 150 to 200 mm. Rectangular shapes with slight variations shall be accepted.

Concrete Cap: Class A concrete as specified under Section 555, Structural Concrete.

Premolded Resilient Joint Filler: 705-07

CONSTRUCTION DETAILS:

No work shall begin until a turbidity curtain is in place protecting the entire length of the wall to be recapped. All work shall be completed within 45 calendar days from commencing work.

All existing masonry to be reset shall be cleaned of any old mortar and all other foreign substances to the satisfaction of the Engineer. If a stone is damaged and cannot be reset, the contractor shall supply additional stone as needed.

Care shall be taken not to penetrate the clay liner of the canal. Any damage to the clay liner shall be repaired at the contractor's expense.

The existing stone shall be reset in accordance with the requirements of Subsection 560-3.04, Stone Masonry, except Stone Proportions do not apply and the sample wall shall not be required. All stone shall be laid in a pattern that closely resembles the existing configuration. Stones shall abut each other with minimal joints. The top course shall have an elevation as shown on the plans. Variations in depth greater than 50 mm between abutting stones last upper course shall not be permitted

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and the final top grade shall ensure that the 300mm (depth) concrete cap has a minimum depth of 250 mm at all locations

All concrete work shall meet the requirements of Section 555, Structural Concrete.

The concrete cap shall have transverse construction joints extending the full depth of the cap spaced 5 m apart. The edges of such joints shall be finished with an edging tool having a 6 mm radius. A premolded resilient joint fill shall be installed at all joints.

METHOD OF MEASUREMENT:

This work will be measured by the number of linear meters measured along the top of the concrete cap in its final location.

BASIS OF PAYMENT:

The unit price bid per linear meter shall include the cost of all labor, materials, and equipment necessary to satisfactorily complete the work as shown on the plans. Turbidity Curtain, Item 209.07 M, as shown on the details, shall be paid for separately.