ITEM 0100601

NEW RADIUS GRANITE CURB

DESCRIPTION

This item shall include the removal and disposal of existing curb, saw cutting and excavating old concrete or other foundation, excavating for, and furnishing and placing new process traprock, concrete foundation, furnishing and setting to line and grade new radius granite curb, furnishing and placing concrete and processed trap rock backfill, caulking curb joints, making all necessary pavement repairs and grading behind the curb where necessary.

REFERENCED ITEMS

Items 0100101, 0102801, 0103703

REQUIRED SUBMITTALS

Certified Test Report:

Submit 5 copies of certified test reports for Granite Curbing and Caulking Compound in accordance with the contract general requirements.

Material Samples:

Submit material sample for Granite Curb in accordance with the contract general requirements.

MATERIALS

1. **GRANITE CURB**

   New radius granite curb shall be 6" by 20" and shall conform to all material requirements for granite curb as specified in Item 0100101 - New Straight Granite Curb on New Foundation.

2. **CEMENT CONCRETE**

   All backfill shall be Class C cement concrete meeting the material requirements of article M.03 of the State of Connecticut Department of Transportation, Standard Specification for Roads, Bridges and Incidental Construction, Form 816, 2004.

3. **PROCESS TRAPROCK**

All foundation material shall be process traprock conforming to the material requirements of item 0103703.

4. **CAULK**

Caulking compound shall be a material which complies with ASTM C-920, Type S, Grade NS, Class 25 sealing compound, polyurethane based elastomeric, single component, and moisture cured sealant, capable of 25% joint movement. The color of the compound shall be cement mortar gray.

CONSTRUCTION METHODS

1. **EXCAVATION**

The Contractor shall excavate on both sides of the curb to be set. The street pavement shall be removed to a width of at least 6" in front of the curb to facilitate proper setting and backfilling. Bituminous concrete and macadam pavements in front and back of the curb shall be cut to neat straight lines before excavation to minimize pavement damage.

Where concrete base pavement is encountered, saw cutting the concrete base will be included in this item.

Excavation shall also include removal of all existing concrete or other foundations encountered.

2. **SETTING CURB**

The curb shall be set to line and grade established by the Engineer. Maximum variation from established line and grade shall be 1/4". The finished curb shall present a neat appearance free from irregularities of line and grade.

Masonry blocking used to hold the curb in place shall be allowed to remain when backfilling is completed.

3. **FOUNDATION AND BACKFILL**

Process traprock shall be placed as foundation material in the excavated trench. The foundation shall be compacted by the use of a motor driven

vibratory plate compactor until it has achieved a firm stable condition satisfactory for the placement of curb stones as determined by the engineer.

Cement concrete shall be placed as foundation and backfill material around the curb in accordance with the standard detail drawings. The Contractor shall use a very stiff mix and shall spade and tamp to eliminate all voids, especially under the curb.

Where a concrete surface is to be placed behind a curb, the concrete backfill shall be placed in back of the curb to 5", below top of curb for 5" concrete sidewalks, and 8" below top of curb for sidewalk ramps as applicable and in front of the curb to the base of the pavement encountered which is five inches below gutter grade for flexible base and 9" below top of curb for rigid base.

Where bituminous surface is to be replaced behind the curb, concrete backfill shall be placed in back of the curb to 6" below top of curb, new processed trap rock shall be placed on top of the concrete to two inches below the top of the curb and shall be thoroughly compacted.

4. PAVEMENT REPAIR

The following applies where the entire roadway is not to be resurfaced. The edge of the pavement shall be trimmed to neat straight lines not less than 12" from the face of the curb and shall be painted with hot asphalt cement. The face of the curb below gutter grade shall also be painted with hot asphalt cement of viscosity grade AC-20 as specified under Items 0100101.

Hot mix bituminous concrete of the mix approved by the Engineer, shall be furnished and placed in two layers to repair the pavement. The bottom layer shall be thoroughly compacted using all steel tamps. The top layer shall be thoroughly compacted to a smooth surface matching existing pavement and using all steel tamps or a motor driven vibratory compactor with water dispersing equipment designed for use on bituminous concrete. The joint between the patch and the existing pavement shall be sealed with hot asphalt cement.

5. CAULKING CURB JOINTS

All curb joints shall be filled with caulking compound with either pneumatic or ratcheted hand gun or with other equipment as approved by the Engineer. At approximately 50-foot intervals, a 1/2-inch joint shall not be filled with caulking compound but left free for expansion.

METHOD OF MEASUREMENT

This work will be measured for payment along the top arris line of face of curb from end to end of the new curb.

BASIS OF PAYMENT

Payment for this work will be made at the contract unit price per linear foot for "NEW RADIUS GRANITE CURB," installed and accepted, including all equipment, materials, saw cutting, tools, labor and incidental expenses.

PAY ITEM	DESCRIPTION	PAY UNIT
0100601	New Radius Granite Curb	LF