

**ITEM 0100201**

**NEW STRAIGHT GRANITE CURB ON EXISTING FOUNDATION**

**DESCRIPTION**

This item shall include saw cutting and excavating in front and back of existing curb, removing and disposing of the existing curb, excavating for, and furnishing and setting to line and grade (in suitable foundation material) new 6" straight granite curb, furnishing and placing new backfill, caulking curb joints, making all necessary pavement repairs and grading and seeding behind the curb where necessary.

**REFERENCED ITEMS**

Items 0100101, 0103703, 0106401

**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 granite curb shall conform to all requirements for granite curb as specified in Item 0100101 New Straight Granite Curb on New Foundation.

2. **PROCESSED TRAPROCK**

All material used for curb backfill shall conform to the material requirements of Item 0103703.

3. **CONCRETE**

Materials for this work shall conform to the requirements of Article M.03. of the State of Connecticut, Department of Transportation, Standard Specifications for Roads, Bridges and Incidental Construction, Form 816, 2004, for Class "C" concrete.

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 pavement in front and back of the curb shall be cut to neat straight lines before excavation to minimize pavement damage.

Where there is good sod behind the curb, the sod shall be removed before excavation and saved for re-use.

Where there is a dummy joint 18" to 24" behind the curb, the Engineer may require the contractor to saw the joint prior to excavating behind the curb. Sawing will be included in this item.

Where concrete base pavement is encountered excavation shall include removal of all old concrete or other foundations. Saw cutting the concrete base will be included in this item.

Where the distance between the back of the curb and sidewalk is 12" or less, or where trees are encountered immediately behind the curb, the Engineer may order the contractor to excavate by hand to avoid damage to the walk or trees.

## 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. When installing straight curb on curves having a radius larger than 75 feet, short pieces of straight curb shall be used to conform as close as possible to the established line.

## 3. **FOUNDATION AND BACKFILL**

The existing foundation shall be graded and prepared for installation of new granite curb.

The new processed traprock backfill shall be placed in layers not over six inches thick and each layer shall be thoroughly compacted using motor driven powered vibratory compactor.

All curb joints shall be set in concrete 6" from either edge and shall be not less than 6" below the bottom of the curb.

Backfill shall be placed in back of the curb to 5" below the top of the curb for loam and seeding and concrete walks, and 2" below for bituminous surface. Backfill in front of the curb shall be placed to 5" below gutter grade in streets with flexible base pavement.

Where concrete base pavement is encountered, backfill in front of the curb shall be cement concrete furnished and placed from the bottom of the curb to the top of the existing concrete base but not less than 9" below the top of the curb. Before placement of the concrete, the face of the existing concrete base shall be cleaned of all loose pieces and thoroughly soaked with water.

## 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 Item 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. REPAIR BEHIND CURB**

Where there is no walk directly behind the curb, the top 6" of curb trench shall be backfilled with existing usable soil or new topsoil. The new topsoil shall conform to the requirements specified under Item 0106401.

Where sod has been saved and is in good condition, the sod shall be replaced to match the top of curb and existing ground.

Where no sod is available, the topsoil shall be graded to match the top of curb and existing ground. Fertilizer, lime, seed and mulch, conforming to the material requirements of Item 0106401, shall then be applied in accordance with the Construction Methods of Item 0106401.

The loam and seeding up to a maximum of 12" behind the curbs and any additional unnecessary damage done by the contractor shall be the responsibility of the contractor.

**6. 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 "(SIZE) NEW STRAIGHT GRANITE CURB ON EXISTING FOUNDATION," complete in place, which price shall include all materials, equipment, saw cutting, tools and labor incidental thereto, and all excavation, backfilling and disposal of surplus material.

There will be no direct payment for furnishing, placing and compacting processed traprock, repair of disturbed areas in front and back of curb and the 12" maximum grassed area in back of curb, but the cost of these works shall be considered as included in the cost of the curbing.

<u>PAY ITEM</u>	<u>DESCRIPTION</u>	<u>PAY UNIT</u>
0100201	6" x 20" New Straight Granite Curb On Existing Foundation	LF