

**ITEM 010500**

**Item 0105001 - RESET EXISTING GRANITE MERESTONE**

**Item 0105002 - SET NEW REINFORCED CONCRETE MERESTONE**

**DESCRIPTION**

This work shall consist of setting new concrete merestones or resetting existing granite merestones to define City street lines at the locations shown on the drawings or as directed by the Engineer. The Contractor will furnish and install concrete merestones for use where new merestones are required.

The Contractor's responsibility will be as follows:

1. Furnishing and setting concrete merestones to line and grade based on MDC datum. Work and materials to include furnishing and supplying cover plate, excavation, backfill of concrete foundation, gravel fill, backfill and all other work items necessary to complete this item.
2. Carefully excavating, removing and resetting existing granite merestones to line and grade based on M.D.C. datum. Work and materials to include excavation, backfill of concrete foundation, gravel fill, and all other work items necessary to complete this item.

In the event that an item for construction staking does not appear in the proposal section of the contract, The City of Hartford's responsibility will be as follows:

1. Establishing proposed line and grade for the contractors use in installation.
2. Locate new or existing merestones by providing ties to at least (3) permanent, separate, physical features outside of the limits of construction.
3. Provide drill hole and verify accuracy to location. Establish final elevation.

If an item for construction staking appears in the proposal section of the contract, the work identified above will be the responsibility of the contractor's surveyor and such costs shall be included in the construction staking item.

**REFERENCED ITEMS**

Items 0102101 and 0103501

## **REQUIRED SUBMITTALS**

### Shop Drawings:

Submit 5 copies of shop drawings for new concrete merestones in accordance with the contract general requirements.

## **MATERIALS**

### 1. **MERESTONES**

New merestones will be concrete and furnished by the Contractor. See standard roadway detail. Reset merestones shall be concrete or granite.

### 2. **GRAVEL FILL**

Gravel fill shall be bank run gravel and shall conform to the requirements of Item 0103501.

### 2. **CONCRETE**

Concrete for foundations shall conform to the requirements as specified under Item 0102101 except that a 1-3-6 mix that is moist with no slump shall be used.

## **CONSTRUCTION METHODS**

Concrete foundation for merestones shall extend to a minimum depth of 60 inches below the underside of existing sidewalk or 60 inches below existing ground surface when installed at surfaces other than existing walk. In sidewalk areas, the top of merestones shall be set 2" below the bottom of the walk. All merestones shall be set in a low slump mix of 1-3-6 concrete measuring at least 12" below the bottom of the merestone and extending at least 6" up around the sides of the merestone. The excavation shall then be backfilled with the gravel fill conforming to Item 0103501 after the concrete has set. Before placing the cover, the merestones shall be located by at least three (3) ties to permanent features outside of limits of construction, and the proper elevation measured and recorded on MDC datum. Location and elevation of each merestone shall be delivered promptly to City Survey or on site City Inspector.

A minimum of one-half (1/2) cubic yard of concrete will be used for foundation support material around each merestone.

Once installed, the Contractor shall take all precautions necessary to insure the protection of the merestones from damage or displacement due to subsequent site operations for the duration of the project construction period.

Merestones damaged or displaced prior to final acceptance shall be reset by the Contractor at no extra cost to the City.

**METHOD OF MEASUREMENT**

The merestones to be measured shall be the actual number set or reset and accepted by the City at the locations called for on the contract drawings or as directed by the Engineer.

**BASIS OF PAYMENT**

Payment for merestones will be at the contract unit price each for "RESET EXISTING GRANITE MERESTONE" or "SET NEW REINFORCED CONCRETE MERESTONE" as the case may be, complete in place, which price shall include all materials, labor, equipment, excavation, concrete backfill, and all other work incidental to the installation of the merestones.

<b><u>PAY ITEM</u></b>	<b><u>DESCRIPTION</u></b>	<b><u>PAY UNIT</u></b>
0105001	Reset Existing Granite Merestone	EA
0105002	Set New Reinforced Concrete Merestone	EA