

## **ITEM 203-6001—25 - BROKEN ROCK TRENCH – DRILLING AND BLASTING**

### **1. DESCRIPTION:**

- 1.01 This work shall consist of drilling and blasting the rock below the ditch line to form trenches filled with broken natural rock, in accordance with the plans or as ordered by the Engineer. Leave the broken rock in place below grade.

### **2. MATERIALS:**

- 2.01 None specified.

### **3. CONSTRUCTION DETAILS:**

- 3.01 Perform drilling and blasting operations to ensure thorough breaking of the rock to a minimum depth below the ditch line at every location along the trench as shown on the plans. In cut areas where pre-splitting is required, extend the pre-split holes down to at least the bottom elevation of the blasted rock trench holes. Conduct the work in a manner to avoid fly rock. Remove material heaved by the blasting and trim back the area to the lines and grades shown on the plans or as ordered by the Engineer.
- 3.02 Excavate test trenches at locations as ordered by the Engineer to determine if the degree of fragmentation and depth of rock breakage is adequate. After blasting, the maximum allowed dimension of the fragmented rock pieces is 24 inches. No unbroken rock will be allowed to project into the area of fragmentation. No more than one test trench will be required for every 500 feet of broken rock trench. If deficiencies are found to exist, excavate additional test trenches within the area of deficiency, as ordered by the Engineer, to determine the extent. Correct by re-drilling and blasting. Backfill the test trenches with broken rock having a maximum size not to exceed 12 inches in the greatest dimension.
- 3.03 All blasting for the broken rock trench in an area must be completed before paving is begun in that area.

### **4. METHOD OF MEASUREMENT:**

- 4.01 This work will be measured as the number of linear feet of broken rock trench satisfactorily constructed by blasting in accordance with the plans or as ordered by the Engineer, measured along the trench line.

### **5. BASIS OF PAYMENT:**

- 5.01 The unit price bid shall include the cost of furnishing all labor, materials and equipment necessary to satisfactorily complete the work, including the cost of drilling, blasting, removal of any material heaved above the final grade elevations, the excavating and backfilling of test trenches and any necessary corrective work.