

## **DESCRIPTION**

Scale all loose rock and other material from the existing rock slopes within the limits shown in the contract documents or as directed by the Engineer. Remove and dispose of all spoil resulting from the scaling operation and all existing pre-scaling material located in the area between the rock slope and edge of pavement.

## **MATERIALS**

None.

## **CONSTRUCTION DETAILS**

### **A. Scales**

#### **1. General**

Provide certified scale(s) capable of weighing fully loaded trucks of the type used to remove spoil from the project. Certified Public Scale(s) or scale(s) furnished to the project may be utilized. Scale(s) shall be certified and bear the unexpired seal of the appropriate Sealer of Weight and Measures. Storage, placement and handling of the scales are the Contractor's responsibility.

#### **2. Certified Public Scales**

Designate location of scale(s) to the Engineer. Do not utilize scale(s) until authorized to do so, in writing, by the Engineer. Prior to the start of removal and disposal, weigh each truck to be used and provide the tare weight to the Engineer. After loading, weighing and before reloading, provide to the Engineer, or his representative, a delivery ticket for each truck load which indicates, as a minimum, scale identification, date and time, and loaded truck weight.

#### **3. Scales Furnished to Project**

Prior to the start of removal and disposal, weigh, in the presence of the Engineer or his representative, each truck to be used to determine tare weight. After loading and before reloading, weigh each truck load in the presence of the Engineer or his representative to determine the weight of removed material. Remove from the project site scales which are damaged or non-working.

### **B. Scaling**

Thoroughly scale the rock slope either manually with hand tools or by a mechanical device designed to catch onto and pull loose rock and other debris from the slope. If mechanical scaling is employed, manually scale the slope to remove any remaining loose material. On slopes that are treated by both scaling and bolting, complete the scaling operation in a particular area prior to rock bolting in that same area unless otherwise directed by the Engineer.

### **C. Protection of Pavement, Structures and Utilities**

Provide adequate protection in the areas being scaled to prevent damage to pavement, structures and utilities by falling rock from the scaling operation. As ordered by the Engineer, repair or replace in kind, all properties or structures damaged as a result of the operation, at no cost to the State.

**ITEM 203.3312 17 SCALING OF ROCK SLOPES AND REMOVAL OF SPOIL  
WITHOUT BLASTING-CONTRACTOR SUPPLIED SCALES**

**METHOD OF MEASUREMENT**

Measurement of material removed as a result of scaling and material existing prior to scaling will be by cubic meter. This measurement will be computed on a weight to volume basis using the conversion factor shown in the proposal.

In limited areas where a definable feature is to be removed, measurement may be by the cubic meter computed from cross-sections taken by the Contractor before and after scaling and approved by the Engineer.

**BASIS OF PAYMENT**

The unit price bid per cubic meter includes the cost of furnishing all labor, materials and equipment necessary to satisfactorily complete the work, including the breaking down of large blocks, as necessary, for removal from the site. It also includes the cost of taking any necessary cross-sections, protecting the pavement, structures and utilities, and any repairs of damages caused by the operation(s).