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**(April 5, 2010)**

**Rock Slope Scaling and Removal and Disposal of Rock Slope Scaling Debris**

The Contractor shall remove loose rock and soil from the existing rock slope locations shown in the Plans or as specified by the Engineer, and shall remove and dispose of all rock slope scaling debris generated by the work.

**Equipment**

Rock slope scaling shall be performed with scaling bars, portable hydraulic wedges, air pillows, hand drills, splitters, and other mechanical or hand tools demonstrated to be effective in performing the work to the satisfaction of the Engineer.

**Submittals**

The Contractor shall submit a rock slope scaling plan to the Engineer for approval in accordance with Section 1-05.3. The rock slope scaling plan shall include, but not be limited to, the following:

1. Documented work experience of all rock slope scaling foremen and scalers scheduled to be working on the project. Rock slope scaling foremen shall have at least 1,500 hours of documented experience as a rock slope scaler. Rock slope scalers shall have at least 1,000 hours of documented experience as a rock slope scaler.
2. The proposed construction sequence and schedule.
3. The type of tools and equipment to be used for rock scaling purposes.
4. The number of rock slope scaling crews to be employed on the project, with a rock slope scaling crew defined as one qualified foreman and two qualified scalers.
5. Operation plan for collection, removal and disposal of all rock slope scaling debris generated by the rock slope scaling work.
6. Operation plan for protection of roadway surface, railroad facilities, structures, utilities, and other facilities adjacent to the rock slope scaling locations.
7. If the roadway is exposed to the collection of rock slope scaling debris, the submittal shall include the equipment and procedure to be used to clear the roadway for public use between rock slope scaling operations.

The Contractor shall not begin rock slope scaling operations until receiving the Engineer's approval of the rock slope scaling plan.

**Rock Slope Scaling Construction Requirements**

As a first item of work, the Contractor shall clear the rock slope of trees and woody vegetation within the work zone within 15 feet of the slope crest or as otherwise specified by the Engineer. Clearing shall conform to Sections 2-01.1

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and 2-01.3(1), and the requirement that the vegetation shall be close cut, leaving the root wad intact.

The Contractor shall conduct rock slope scaling operations in accordance with the details shown in the Plans, the traffic control restrictions and requirements shown in the Plans and specified in the Special Provisions, and the rock slope scaling plan as approved by the Engineer. The size and work experience of the rock slope scaling crew as defined above shall be maintained at all times.

Rock slope scaling shall begin at the top of the rock slope and work shall proceed down slope, removing loose rock and soil as the work progresses. The extent of rock slope scaling shall be as shown in the Plans and as adjusted in the field by the Engineer.

**Rock Slope Scaling Debris Collection and Removal**

The Contractor shall collect, remove and dispose of all rock slope scaling debris generated by the work, including all rock debris within the limits of the project present at the base of the slope at the beginning of the project. Ditches and benches shall be cleared of all rock slope scaling debris and returned to original functional condition as specified by the Engineer

The Contractor shall break up any rocks that are too large to transport into manageable sized pieces for haul.

Rock slope scaling debris collection and removal shall be conducted in accordance with the traffic control restrictions and requirements shown in the Plans and specified in the Special Provisions, and the rock slope scaling plan as approved by the Engineer.

Except when the Plans or Special Provisions specify a Contracting Agency provided site for disposal of all or specific portions of the rock slope scaling debris, all rock slope scaling debris shall be disposed of at a site conforming to Section 2-03.3(7)C.