



6010 - 1 DESCRIPTION

- 1.01 The work shall consist of supplying and placing riprap as slope or pier foundation protection. Riprap shall be placed at the locations and in conformity with the lines, grades and dimensions shown on the plans or designated by the Department.

6010 - 2 MATERIALS

- 2.01 All stone for use as riprap shall be supplied by the Contractor. Riprap material shall consist of hard and durable field stones, boulders or quarry rock. Unless otherwise specified on the plans or in the special provisions, the riprap shall conform to one of the following gradation requirements. Percentages are by mass.

(a) Class A

- 100% smaller than 35 cm or 70 kg;
- at least 20% larger than 25 cm or 25 kg;
- at least 50% larger than 20 cm or 10 kg;
- at least 80% larger than 15 cm or 5 kg.

(b) Class B

- 100% smaller than 45 cm or 130 kg;
- at least 20% larger than 35 cm or 70 kg;
- at least 50% larger than 30 cm or 40 kg;
- at least 80% larger than 20 cm or 10 kg.

6010 - 3 CONSTRUCTION

General

- 3.01 The class of riprap to be used shall be as shown on the plans or as specified in the special provisions.
- 3.02 No riprap shall be placed until permission to do so has been obtained from the Department. Adequate precautions shall be taken during the placing operation to prevent damage to the concrete in the foundations.

Riprap for Slope Protection

- 3.03 The Contractor shall, where necessary, trim and shape the area to be riprapped.
- 3.04 A granular filter blanket, when required, shall be placed in conformance with the requirements for GRANULAR FILTER BLANKET (Specification 6620). A synthetic filter cloth, when required, shall be installed in conformance with the requirements of the contract special provisions. Riprap shall be placed in such a manner as to avoid disturbing the filter blanket.
- 3.05 Riprap may be placed by dumping. Adequate controls shall be taken to ensure a reasonably uniform thickness and a well-graded distribution of stone sizes without protrusion of isolated large stones. Rearranging of individual stones by mechanical equipment or by hand may be required.

Riprap for Pier Foundation Protection

- 3.06 Riprap shall be placed as nearly as is practical to the locations as shown on the plans. Stone placed under water shall be positioned by a bottom dump bucket, or other approved equipment, lowered through the water to the point of placement. Free dumping of the stone shall not be permitted.

6010 - 4 MEASUREMENT

- 4.01 Riprap shall be measured in cubic metres on the basis of the actual volume of material in place, within the limiting dimensions shown on the plans or as designated by the Department.

6010 - 5 PAYMENT

- 5.01 Payment for RIPRAP AT BRIDGES shall be at the contract unit price per cubic metre. The unit price shall be full compensation for supplying, loading, hauling, unloading and placing of riprap, and for staking, trimming and shaping the surfaces to be rippaped. The excavation for pier foundations shall be in accordance with the requirements for FOUNDATION EXCAVATION (Specification 2255).