

**SECTION 7.03
RIPRAP**

7.03.01--Description: Riprap shall consist of angular shaped stones used to protect foundations of piers, abutments, walls, slopes of embankments and waterways from water damage.

7.03.02--Materials:

1--Stone: The stone for this work shall be the type called for on the plans and shall conform to the requirements of Article M.12.02.

2--Bedding: The bedding Material for riprap shall conform to the specifications of the material indicated on the plans.

7.03.03--Construction Methods: The area to be protected by riprap shall be accurately shaped prior to placing of any bedding material or riprap. Where bedding material is called for, it shall be placed on the prepared area and compacted to the depth, lines and grades indicated on the plans.

The riprap shall be placed to its full course thickness in one operation in such a manner as to produce a reasonably well-graded mass of rock without causing displacement of the underlying material. The finished surface shall be free from pockets of small stones and clusters of larger stones. Placing this material by methods likely to cause segregation of the various sizes of stone will not be permitted. Rearranging of individual stones by mechanical or hand methods will be required to the extent necessary to obtain a reasonably well-graded distribution of the specified stone sizes. The completed course shall be of the specified thickness and to the lines and grades as shown on the plans or as ordered by the Engineer.

7.03.04--Method of Measurement: The quantity of riprap measured for payment shall be the number of cubic meters whose length and width is measured in place as accepted and the thickness as shown on the plans.

7.03.05--Basis of Payment: This work will be paid for at the contract unit price per cubic meter for the type of riprap indicated, complete in place, including all materials, equipment, tools and labor incidental thereto.

Excavation and bedding material will be measured and each paid for under its particular pay item. Payment will be made under:

Pay Item (Type) Riprap	Pay Unit m ³
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