

**TECHNICAL SPECIFICATION 405
RIP RAP**

405.1 SCOPE OF WORK

This technical specification covers the furnishing of all labor, materials, testing, submittals, tools, and equipment necessary to excavate for and install rip rap including stone, concrete, bedding and geotextile, to protect slopes and waterways from water damage, as shown on the plans or as specified herein.

405.2 MATERIALS

The stone for this work shall be the type called for on the plans and shall conform to the requirements of Form 817, Section M.12.02.

The concrete for this work shall be Class "C" concrete and shall conform to the requirements of Form 817, Section M.03.01.

The bedding for this work shall be processed aggregate base medium gradation conforming to Technical Specification 210 – “Processed Aggregate Base”.

The geotextile for this work shall conform to the requirements of Form 817, Section M.08.01.19.

405.3 SUBMITTALS

The following submittals shall be submitted to the Engineer for review and approval prior to installation:

- Gradation test results for stone
- Concrete specifications from suppliers
- Gradation test results for processed aggregate
- Manufacturer(s) cut sheet(s) for geotextile(s)

405.4 CONSTRUCTION METHODS

Construction methods shall conform to Form 817, Sections 7.03.03 and 7.55.03.

405.5 MEASUREMENT

Measurement for this item will be based on the actual number of cubic yards, in place and accepted. The length and width shall be measured in place while the depth shall be as shown on the plans.

405.6 BASIS OF PAYMENT

Payment for this item will be based on the contract unit price per Cubic Yard for the type of rip rap indicated, completed in place, including all labor, materials, testing, submittals, tools, and equipment necessary to complete the work as specified.

PAY ITEM	PAY UNIT
(Type) Rip Rap	C.Y.