
Instruction for use
Construction Specification 62—Grouted Rock Riprap**1. Applicability**

Construction Specification 62 is applicable to the placement of grouted rock riprap on channel slopes and in other designated areas.

2. Material specifications

The following material specifications complement Construction Specification 62:

- 521—Aggregates for Drainfill and Filters
- 522—Aggregates for Portland Cement Concrete
- 523—Rock for Riprap
- 531—Portland Cement
- 532—Supplementary Cementitious Materials
- 533—Chemical Admixtures for Concrete
- 534—Concrete Curing Compound
- 592—Geotextile

Construction Specifications 31, 32, and 95 also complement Construction Specification 62.

3. Included items

Items to be included in construction specifications and drawings follow:

- a. Complete plans and cross-sections clearly defining the grouted rock riprap requirements.
- b. Pay limits, where applicable.
- c. Gradation of rock.
- d. Gradation of filter or bedding materials, if used.
- e. Location of weep holes and pipe material for weep holes, if used.
- f. Placement tolerances.
- g. Design of grout mix together with the slump range and amount of air content.
- h. Type of cement.
- i. Type of admixtures, if any.
- j. Gradation of coarse aggregate.
- k. Designate equipment-placed or hand-placed rock.

- l. Designate if grout is to be placed or pumped.
- m. Method of measurement and payment.

4. Methods**Section 4, Placement of rock riprap**

Method 1—Intended for use when rock placement operations that may cause some displacement of the filter or bedding material is not critical. Access to the site for dumping by hauling and placing equipment is reasonable.

Method 2—Intended for sites with limited access by hauling and placement equipment. This method should be considered when using geotextile filter material and sharp angular rock so puncture of the geotextile can be minimized. Hand-placed operations should be considered on steeper slopes.

Section 12, Measurement and payment

Method 1—Intended for use when the volume of riprap and grout, together with the filter or bedding material when used, is computed as one quantity and paid for at the contract unit price for grouted rock riprap.

Method 2—Intended for use when the volume of riprap, the volume of filter or bedding, the volume of concrete grout, and the area of geotextile are computed and paid as separate items.

Method 3—Intended for use when the actual weight of rock and filter/bedding material delivered is determined and paid to the nearest 0.1 ton, the grout volume is determined and paid to the nearest 0.1 cubic yard from batch volumes delivered, and the geotextile is determined and paid to the nearest square yard.

When specifications are prepared using electronic procedures and all methods but one are deleted for use in a contract specification, delete from the last paragraph, ***All Methods The following provisions apply to all methods of measurement and payment.*** Left justify the remaining text.

5. Items of work and construction details

Starting at the top of page 62-6, prepare and outline job specific "Items of Work and Construction Details" (IWCD) in accordance with these instructions.