

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

SPECIAL PROVISION

SECTION 805 – RIPRAP AND CURBING STONE

Add Sub-Section 805.2.01.A.4

STONE PLAIN RIPRAP FOR STREAM DETAILS

Stone Plain Riprap for Stream Details shall be clean and essentially free of rock dust and fines. Stone shall be relatively flat on either side in the same dimension, preferably the long dimension. The material shall be processed such that 90 % of the particles within the size class shall have all dimensions within the ranges stated in the size classifications listed below:

TYPE A: Stone in this size class shall meet the following gradation requirements:

| <u>SIZE</u> | <u>PERCENT BY WEIGHT</u> |
|------------------------------|--------------------------|
| Passing 12" Sieve | 100 |
| Passing 4" Sieve | 0-25 |
| Passing No.4 Sieve (4.75 mm) | 0-10 |

Test: Method of Test shall be in accordance with the following:

| | |
|----------------|--------------|
| Sieve Analysis | AASHTO: T 27 |
|----------------|--------------|

For use as fill for upstream fill portions of Cross Vanes, Rock Vanes, J-Hook Vanes, and in other structures and areas as indicated on the Plans and Details, as directed and approved by the Engineer.

TYPE B: Generally 2-4 cubic feet and weighing 0.16-0.33 tons. Maximum weight for this size class can be 0.52 ton. The dimensions of these stones shall be 2' x 1' x 1' to 2' x 2' x 1'. Variability is allowed, however, with 1 foot being the smallest dimension and 2.5 foot being the largest dimension along any axis to be accepted within this size class. For use in Root Wad structures, Rock Vanes, Cross Vanes, J-Hook Vanes, and in other in-stream structures as indicated on the Plans and Details, as directed and approved by the Engineer.

TYPE C: Generally 4-8 cubic feet and weighing 0.33-0.66 tons. Maximum weight for this size class can be 1 ton. The dimensions of these stones shall be 2' x 2' x 1' to 2' x 2' x 2'. Variability is allowed, however, with 1 foot being the smallest dimension and 2.5 feet being the largest dimension along any axis to be accepted within this size class. For use in Root Wad structures, Rock Vanes, Cross Vanes, J-Hook Vanes, and in other in-stream structures as indicated on the Plans and Details, as directed and approved by the Engineer.

TYPE D: Generally 12-18 cubic feet and weighing 1.0-1.5 Tons. Weight range can vary between 1 ton up to 2 tons. The dimensions of these stones shall be 3' x 2' x 2' to 3' x 3' x 2'. Variability is allowed, however, with the smallest dimension being 2 feet and 3.5 feet being the largest dimension along any axis to be accepted within this size class. For use in in-stream structures such as Cross Vanes, J-Hook Vanes, Rock Vanes and in other structures and areas as indicated on the Plans and Details, as directed and approved by the Engineer.

TYPE E: Generally 24-72 cubic feet and weighing 2.0-6.0 tons. Weight range can vary between 2 tons up to and exceeding 6 tons with approval by the Engineer. The dimensions of this size class shall be to 6' x 4' x 3'. However, variability is allowed in that dimensions for this size class shall fall between the smaller 4' x 3' x 2' and a maximum as determined by the Engineer. For use in large in-stream structures such as Cross Vanes, J-Hook Vanes, Rock Vanes, Step Pools, and in other structures and in areas indicated on the Plans and Details, as directed and approved by the Engineer.

Delete 805.2.01.C and Substitute the following:

C. Acceptance:

**SECTION 805 – RIPRAP AND CURBING STONE
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Test as follows:

| Test | Method |
|-------------------------------|---------------|
| Percent Wear | AASHTO: T96 |
| Petrographic Analysis | ASTM: C295 |
| Riprap Size | ASTM D5519-07 |
| Soundness (Magnesium Sulfate) | AASHTO T 104 |