

STREAM HABITAT BOULDERS

****From Braintree ER STP 0187(12)**

- xx. DESCRIPTION. This work shall consist of placing natural river boulders throughout the finished stream channel.
- xx. MATERIALS. Boulders shall be natural river material. The middle dimension of any boulder shall not be less than 16". The middle dimension of at least half the boulders placed shall be at least 24". Suitable boulders excavated during placement of the riprap may be used.
- xx. CONSTRUCTION REQUIREMENTS. Boulders are to be placed under the direction of a River Morphologist designated by VTrans. The Contractor is responsible for notifying the Engineer a minimum of seven (7) days prior to placement of the boulders in order that participation of the River Morphologist may be scheduled.

Boulders shall be placed at an average rate of 15 per 100 linear feet of channel. Boulders shall be distributed in a generally random fashion throughout the channel, except in locations to be identified by the Engineer and/or River Morphologist at the time of construction, where boulders shall be either clustered or excluded.

Relatively large boulders shall be used at the toe of the riprap slope (bottom 2-3 vertical feet), with no chinking stone on the front face in order that gaps remain between stones on the front face to provide for improved aquatic habitat.

- xx. METHOD OF MEASUREMENT. The quantity of Special Provision (Stream Habitat Boulders) to be measured for payment will be on a lump sum basis in the complete and accepted work.
- xx. BASIS OF PAYMENT. The accepted quantity of Special Provision (Stream Habitat Boulders) will be paid for at the Contract lump sum price. Payment will be full compensation for furnishing, transporting, and placing the material specified and for furnishing all labor, tools, equipment, and incidentals necessary to complete the work.

Payment will be made under:

<u>Pay Item</u>	<u>Pay Unit</u>
900.645 Special Provision (Stream Habitat Boulders)	Lump Sum