

CHANNEL SUBSTRATE MATERIAL:

Description

The work covered by this section consists of the furnishing, stockpiling, placing, and maintaining an approved stone to be utilized to construct streambank protection devices in and along the stream and at other locations designated in the plans or as directed.

The quantity of channel substrate material to be installed will be affected by the actual conditions that occur during the construction of the project. The quantity of channel substrate material may be increased, decreased, or eliminated entirely as directed. Such variations in quantity will not be considered as alterations in the details of construction or a change in the character of the work.

Materials

Channel Substrate Material shall consist of natural field stone or natural river rock. Crushed stone from a quarry will not be permitted. The channel substrate material shall be sound, tough, dense, resistant to the action of air and water, and suitable in all respects for the purpose intended. Channel Substrate Material may contain small amounts of fine aggregate but shall contain no amounts of soil material.

All channel substrate material shall meet the approval of the Engineer. While no specific gradation is required, the various sizes of the stone shall be equally distributed within the required size range. The size of an individual stone particle will be determined by measuring its diameter across the intermediate axis.

Channel Substrate Material shall be a mixture containing approximately the following size distribution:

- 50% Gravel - 0.12 to 3 inch (3 to 75mm) diameter
- 50% Stone - 3 to 12 inch (75 to 300 mm) diameter

No more than 60% of the material furnished can be gravel material and no more than 75% of the material furnished can be stone material.

Measurement and Payment

The quantity of channel substrate material to be paid for will be the actual number of tons (metric tons) of channel substrate material that has been incorporated into the work, or has been delivered to and stockpiled on the project as directed. Material that has been stockpiled will not be measured a second time. The channel substrate material will be measured by being weighed in trucks on certified platform scales or other certified weighing devices.

Such price and payment will be full compensation for all work covered by this special provision, including but not limited to furnishing, weighing, stockpiling, re-handling, placing, maintaining material, and disposal of any material not incorporated into the project.

Payment will be made under:

Pay Item

Channel Substrate Material

Pay Unit

Ton (Metric Ton)