ROCK SILL:

Description:
The work covered by this section consists of the construction and maintenance of grade control structures placed in and along the stream at locations designated on the plans to prevent the down cutting of freshly graded channel bed.

The quantity of rock sills to be installed will be affected by the actual conditions that occur during the construction of the project. The quantity of rock sills may be increased, decreased, or eliminated entirely at the direction of the Engineer. 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:
No. 57 stone .....Section 1005

Plain rip rap, Class A ..... Article 1042-1

Header and footer rock shall meet the requirements of Structure Stone, Boulders. See special provision.

Geotextile for drainage, Type 2 .....Section 1056

Construction Methods:
Rock sills shall be constructed according to the rock sill detail shown on the plans or as directed by the Engineer. Boulders will be used for the entire sill. One vane running perpendicular to the stream's flow will installed so that the header rock's top elevations are at the elevation of the proposed channel. The sill shall run from bankfull to bankfull. Individual rocks shall be fitted tightly such that water flows over the device and not through the individual rocks. The header and footer boulders must be placed such that the ends butt up against each other. No gaps between boulders will be accepted. However, voids between the header and footer rocks can be filled with hand-placed Class A stone at the direction of the Engineer. At the ends of the sill, a large sill rock (Structure Stone, Boulders) shall be placed in a trench immediately below bankfull elevation and backfilled with soil to meet the bankfull elevation specified on the profile.

After the rock sill is constructed, a trench shall be dug upstream along the outline of the sill. The trench shall extend a minimum of 0.5 ft below the bottom of the footer rocks. Plate the upstream side with Type 2 Geotextile and backfill with No 57 Stone.

Method of Measurement:
The quantity of header and footer rock will be paid for as provided in the provision for Structure Stone.

The quantity of No. 57 stone to be paid for will be the actual number of tons (metric tons) of No. 57 stone which has been incorporated into the work, or has been delivered to and stockpiled on the project as directed by the Engineer. No. 57 stone that has been stockpiled will not be measured a second time. No. 57 stone will be measured by being weighed in trucks on certified platform scales or other certified weighing devices.

Plain rip rap, Class A will be measured according to Article 876-5(B).

Geotextile will be measured according to Article 876-5(C).

Basis of Payment:
Such price and payment will be full compensation for all work covered by this special provision, including, but not limited to, furnishing all materials, labor, equipment and incidentals necessary to construct the rock sills.

Payment for rock sills will be as follows:

Boulder..... TN
Plain rip rap, Class A ..... TN
No. 57 Stone..... TN
Geotextile for Drainage Type 2 ..... SY