

Section 275

SECTION 275
ROCK PLATING

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275-1 DESCRIPTION

Place rip rap on slopes in accordance with the contract and *Roadway Standard Drawings*. Rock plating is required to stabilize slopes at locations shown in the plans and as directed.

275-2 MATERIALS

Refer to Division 10.

Item	Section
Geotextile for Rock Plating, Type 2	1056
Plain Rip Rap	1042
Select Material, Class IV	1016
Subsurface Drainage Materials	1044

Provide Type 2 geotextile for filtration geotextiles. Use Class IV select material (standard size No. ABC) over rip rap and Class 1, 2 or B rip rap unless required otherwise in the plans. Provide subdrain coarse aggregate (standard size No. 78M) and PVC subdrain pipes, fittings and outlet pipes for subsurface drainage materials.

275-3 CONSTRUCTION METHODS

Construct embankments in accordance with the contract. Compact fill slopes to the satisfaction of the Engineer with tracked equipment or other approved methods. Excavate materials as need to install rock plating on cut slope faces or embed rock plating below the ground line.

Do not leave filtration geotextiles exposed for more than 7 days before covering with rip rap or ABC. Unroll geotextiles down slopes, i.e., perpendicular to the roadway centerline. Bury filtration geotextiles at top of slopes and embed geotextiles at toe of slopes as shown in the plans. Filtration geotextiles should be continuous down slopes. If geotextile roll length is too short, overlap ends of geotextile rolls at least 5 feet with the upper geotextile over the lower as shown in the plans. Filtration geotextiles may be discontinuous down slopes in the direction perpendicular to the roadway centerline only once per roll width.

Overlap adjacent filtration geotextiles along slopes at least 18 inches as shown in the plans. Pull geotextiles taut so that they are in tension and free of kinks, folds, wrinkles or creases. Hold geotextiles in place as needed with wire staples or anchor pins. Do not displace or damage filtration geotextiles while placing rip rap. When shown in the plans, install 6 inch diameter perforated subdrain pipes and No. 78M stone at toe of slopes in accordance with Article 815-3.

Place rip rap so smaller stones are uniformly distributed throughout rip rap. Install rip rap with mechanical methods and if necessary, by hand to form a well graded, dense, neat layer of rip rap.

When shown in the plans, place filtration geotextiles and 18 inches of ABC over rip rap at top of slopes. Compact ABC to 92% of AASHTO T 180 as modified by the Department or to the highest density that can be reasonably obtained.

275-4 MEASUREMENT AND PAYMENT

Rock Plating will be measured and paid in square yards. Rock plating will be measured along slope faces of rock plated slopes as the square yards of exposed rip rap and if applicable, ABC. No measurement will be made for portions of rock plating embedded below the ground line. The contract unit price for *Rock Plating* will be full compensation for providing, transporting and installing filtration geotextiles, wire staples, anchor pins, rip rap and ABC. The contract unit price for *Rock Plating* will be full compensation for excavating materials to install rock plating on cut slope faces and embed rock plating below the ground line.

- 1 *Subsurface Drainage* will be measured and paid in accordance with Section 815.
- 2 Payment will be made under:

Pay Item
Rock Plating

Pay Unit
Square Yard