

621-R-398 CAPPING CUT AND FILL SLOPES STEEPER THAN 3:1

(Adopted 09-01-05)

Description

This work shall consist of:

- (a) covering soil slopes with a cohesive soil to establish vegetation;
- (b) use of soil reinforcement materials and blankets for mulching seed as shown on the plans and in accordance with these requirements;
- (c) use of water absorption chemicals to hold water and keep moisture available for seed germination; and
- (d) soil testing for pH, nutrient supply, and organic matter percentage.

Materials

The materials shall be in accordance with the following:

(a) Mulch Blankets

The mulch blankets shall be excelsior blankets or straw mats in accordance with 621.05(d) or 621.05(f).

(b) Water Absorption Gels

Water absorption gels developed for horticultural use shall be incorporated into the top 1 1/2 in. (30 mm) of the capping soil according to the manufacturer's recommendations. The Contractor shall supply a copy of the manufacturer's recommendation to the Engineer prior to the placement of the capping soil.

(c) Capping Soil

The capping soil shall be a type A4, A5, A6, or A7 AASHTO classification, that has a pH range of 6 to 7 and an organic content of 5 to 10% by volume or 2 to 3% by dry weight. The soil shall be tested by an approved laboratory and the results shall be furnished to the Engineer prior to the placement of the soil.

Construction Requirements

All slopes steeper than 3:1 designated for seeding shall be ripped to a depth of 2 in. (50 mm) and then covered with a 6 in. (150 mm) layer of capping soil. The capping soil shall be evenly spread over all areas and shall have the water absorption gels incorporated. The capping soil shall be tracked into place such that the cap adheres to the existing soil and forms the desired contours for the slope. All debris in the capping soil shall be in accordance with 203.09. All areas shall be fine graded to produce a smooth surface which conforms to the contours and cross sections desired.

Method of Measurement

Existing soils stripped and stockpiled for use as a capping soil will be measured as common excavation in accordance with 203.27. Capping soil obtained from off the right-of-way will be measured as borrow in accordance with 203.27. Erosion control blankets will be measured in accordance with 621.12. Water absorption gels will not be measured for payment.

Basis of Payment

Existing soils stripped, stockpiled, and then redistributed as a capping soil will be paid for as common excavation in accordance with 203.28. Capping soil obtained from off the right-of-way will be paid for as borrow in accordance with 203.28. Erosion control blankets will be paid for in accordance with 621.13.

The cost of the water absorption gel shall be included in the cost of the erosion control blanket.
