

SECTION 02320

SLOPE PROTECTION AND EROSION CONTROL

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Temporary silt fence.
- B. Erosion control mesh.
- C. Hay bales, temporary erosion checks.
- D. Stone check dams.
- E. Plain riprap - machine placed stones on filter fabric.
- F. Stabilized Construction Entrance

1.02 RELATED SECTIONS

- A. Section 02230 - Site Clearing
- B. Section 02315 - Excavation

1.03 ENVIRONMENTAL REQUIREMENTS

- A. Conform to Maine Department of Environmental Protection publication "Maine Erosion and Sediment Control Handbook for Construction: Best Management Practices" latest edition.
- B. Maintain erosion control installations in a functional condition at all times. Inspect after each rainfall and at least daily during prolonged rainfall. Immediately correct deficiencies.
- C. Comply with the Maine Department of Environmental Protection General Permit - Construction Activity (see attached).

PART 2 PRODUCTS

2.01 MATERIALS

- A. Silt Fence: Maine DOT Section 656.03
- B. Erosion Control Mesh: Maine DOT Section 717.061.
- C. Hay Bales: Baled hay approximately 14 inch by 18 inch by 30 inch securely tied to form a firm bale.
- D. Stone check dams: Crushed stone
- E. Woven Geotextile Fabric: Mirafi 500x or Approved Equal.
- F. Non-Woven Geotextile Fabric: Mirafi 140N or Approved Equal.
- G. Stone for Stabilized Construction Entrance: Crushed Stone Meeting the following requirements
 - 1. 3 inch sieve: 100 percent passing by weight.
 - 2. 2 inch sieve: 0 to 20 percent passing by weight.
 - 3. 3/4 inch: 0-5 percent passing by weight.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Verify that surfaces are ready to receive work.
- B. Beginning of installation means installer accepts existing surface conditions.

3.02 INSTALLATION

- A. Install silt fences before beginning grubbing.
- B. Install silt fences in accordance with Maine DOT Section 656.08
- C. Install erosion control mesh in accordance with Maine DOT Section 613.
- D. Install hay bales in accordance with Maine DOT Section 656
- E. Install plain riprap in accordance with Maine DOT 610 with the exception that plain riprap shall be installed on filter fabric installed per manufacturer's recommendations.

3.03 MAINTENANCE

- A. Maintain erosion control installations in a functional condition at all times. Inspect measures at least weekly, after each rainfall and at least daily during prolonged rainfall. Immediately correct deficiencies.
- B. Make a daily review of the location of erosion control measures in areas where construction activity causes drainage runoff to ensure that erosion control measures are properly located for effectiveness.
- C. Where deficiencies exist, install additional erosion control measures as approved or directed by the Owner. No additional payment shall be made for additional erosion control measures which may be required.

3.04 TEMPORARY EROSION CONTROL REMOVAL

- A. Remove temporary silt fence and hay bales when site is stabilized and grass catch is at least 80 percent and dispose of in a proper manner.
- B. Remove stone check dams when drainage channel is stabilized and grass catch is at least 80 percent and dispose of in a proper manner. Stone shall be raked out to a maximum depth of one layer to allow future vegetation to grow through the stone.

3.05 ATTACHMENTS

- A. State of Maine Department of Environmental Protection, General Permit - Construction Activity.

END OF SECTION 02320