

SECTION 31 25 13 - TEMPORARY EROSION CONTROL

PART 1 - GENERAL

1.01 DESCRIPTION OF WORK:

- A. Provide and maintain erosion control devices to control erosion that occurs during construction operations, prior to completion of permanent erosion control devices.
- B. Related Work Specified Elsewhere: Other specifications sections which directly relate to the work of this section include, but are not limited to the following:
 - 1. Stripping of Topsoil: Section 31 10 00 - Site Clearing.
 - 2. Establishment of Subgrade Elevation: Section 31 20 00 - Earthwork

1.02 QUALITY ASSURANCE:

- A. Prior to the start of construction, meet with the Engineer to discuss erosion control requirements.
- B. Payment of fines issued to Owner as a result of poor erosion control by the Contractor.

1.03 SUBMITTALS:

- A. Prepare an Erosion Control Program and submit to Engineer for approval prior to construction startup.

PART 2 - MATERIALS

2.01 Use the following materials in construction of erosion control devices. Other materials require approval of the Engineer.

- A. Baled Hay: Securely tied and staked twice per bale.
- B. Sand Bags: Heavy cloth bags of approximately 1 cubic foot capacity filled with sand or gravel.
- C. Mulches:
 - 1. Asphalt emulsion, loose hay, straw, pine straw or needles, sawdust, wood chips, wood excelsior, or wood fiber cellulose.
 - 2. Type and use as specified in the Maine Erosion and Sediment Control Handbook For Construction: Best Management Practices prepared by the Cumberland County Soil and Water Conservation District and the DEP, hereinafter referred to as the BMP's.

D. Mats and Nettings:

1. Twisted craft paper, yarn, juts, excelsior, wood fiber mats, glass fiber, and plastic film.
2. Type and use shall be as specified by the Environmental Quality Handbook.

E. Seed:

1. Standard conservation mix of 100% annual rye grass or field brome grass.
2. Equivalent seed mixture as approved by the Engineer.

F. Sod:

1. Grown from certified seed of adapted varieties to produce high quality sod free of any serious thatch, weeds, insects, diseases, and other pest problems.
2. At least one year old and not older than three years. Cut with a 1/2-inch to 1-inch layer of soil.

G. Drains:

1. Flexible drains consisting of collapsible neoprene pipe, minimum 8-inch diameter, or an approved equal.
2. Corrugated metal pipe and inlet or a gauge consistent with the loading conditions, minimum 12-inch diameter or approved equal.

H. Siltation Fence: Mirafi Environfence or approved equal.

PART 3 - EXECUTION

3.01 TEMPORARY DEVICES: Use the following devices to control erosion. Other devices require approval of the Engineer.

- A. Temporary Erosion Checks: Construct temporary erosion checks at 100-foot minimum intervals in ditches or where designated by the Engineer using baled hay and temporary siltation fence.
- B. Temporary Berms: Construct temporary barriers along the toe of embankments using side drains as required.
- C. Temporary Slope Drains: Drains shall be collapsible pipe with corrugated metal pipe inlet.
- D. Sedimentation Basins: Barriers and berms shall be used to construct sedimentation basins to prevent off-site transport of silt with site runoff. Basins shall be sized to limit pass-through flow velocities to 0.01 feet per minute.

3.02 APPLICATION RATES:

- A. Seed for Temporary Cover: 40 pounds per acre
- B. Loose Hay or Straw: 2 tons per acre

3.03 REMOVAL OF TEMPORARY EROSION CONTROL:

- A. Temporary materials and devices shall be removed when permanent soil stabilization has been achieved. Materials in good condition may be reused on the site if approved by the Engineer. Materials unsuitable for reuse shall become the property of the Contractor and shall be disposed of in a manner and location approved by the Engineer.

* END OF SECTION 31 25 13 *