

SECTION 02100

EROSION CONTROL

PART 1: GENERAL

1.01 RELATED WORK

- A. Section 02221: TRENCHING, BACKFILLING, COMPACTING
- B. Section 02485: SEEDING

1.02 JOB CONDITIONS

- A. Excavation, trenching, backfilling and grading operations to elevations as needed to meet the requirements shown on the Contract Documents, shall be done in such a manner as to cause the least amount of soil erosion and siltation.
- B. Appropriate management practices and control structures shall be in place prior to clearing of vegetation for necessary construction activities near ditches, streams, rivers and lakes.
- C. Provisions required to maintain uninterrupted surface water flow shall be maintained during the Work. Storm water flow in existing gutters, surface drains and swales shall not be interrupted.
- D. The Engineer shall be notified of any unexpected subsurface or other unforeseen conditions. Work shall be discontinued until the Engineer provides notification to resume work.

1.03 PERMITS

- A. All conditions set forth in the applicable permits including the Stormwater Pollution and Prevention Permit, Corps of Engineers 404 Permit, Tennessee Valley Authority 26A Permit (if applicable) or other similar permits for the purpose of erosion control shall be strictly adhered to. The Owner shall obtain the appropriate permit unless noted that it will be the responsibility of the Contractor.

PART 2: PRODUCTS

2.01 PROTECTIVE MATERIALS

- A. Straw Bale Barriers
- B. Silt Fence and Stakes
- C. Sand Bags
- D. Stone Rip Rap
- E. Floating Boom
- F. Burlap

PART 3: EXECUTION

3.01 PREPARATION

- A. Erosion and sediment control shall be in accordance with the Tennessee Water Quality Control Act of 1977 as amended and the Federal Act PL 92-59.
- B. The Tennessee Department of Conservation Publication, Tennessee Erosion & Sediment Control Handbook, March 2002 or latest edition, shall be used as a guide for construction of projects that require erosion and sediment controls to protect adjoining property and waters of the State.

3.02 PERFORMANCE

- A. Whenever possible a buffer strip of vegetation cover shall be kept adjacent to grading operations.
- B. Control measures shall be in place and functional before earth moving operations begin, and must be properly constructed and maintained during the construction period.
- C. Staked and entrenched straw bales or silt fence shall be installed along the base of all sloped cuts and fills, on the down hill sides of stockpiled soil, and along stream banks.

- D. All surface water flowing toward the construction area shall be diverted around the area as much as possible to reduce erosion potential by using berms, channels and/or sediment traps as necessary.
- E. Maintenance of erosion and sediment control methods shall be performed on a regular basis throughout the construction period and until a good vegetative cover is established over the entire disturbed area.
- F. A vegetation buffer strip shall be maintained between any stream and pipe trenching. Excavated material from the trench shall not be placed between the trench and stream.
- G. Trenches or pits shall be backfilled as soon as practicable to reduce erosion potential.
- H. Erosion control measures shall be removed when they have served their useful purpose. The disturbed soil shall be fine graded, top soiled and planted with permanent vegetation as soon as the construction sequence allows to prevent further potential erosion and sedimentation. Any seeded areas which are eroded shall be reworked as soon as possible. The Contractor shall maintain the seeded areas and apply new seed and fertilizer as necessary during the warranty period to establish a permanent vegetated ground cover.

END OF SECTION