

## SECTION 31 35 00

### SLOPE PROTECTION AND EROSION CONTROL

#### PART 1 GENERAL

##### 1.1 SECTION INCLUDES

- A. Installation of temporary and permanent erosion control systems.
- B. Installation of temporary and permanent slope protection systems.
- C. Contractor Responsibilities.

##### 1.2 RELATED SECTIONS

- A. Section 31 11 00 - Site Preparation
- B. Section 02 32 00 – Earthwork
- C. Section 32 92 19 – Seeding
- D. Storm Water Pollution Prevention Plan
- E. Construction Drawings

##### 1.3 ENVIRONMENTAL REQUIREMENTS

- A. Protect adjacent properties and water resources from erosion and sediment damage throughout life of contract.

##### 1.4 CONTRACTOR RESPONSIBILITIES

- A. **The Owner (through the Civil Engineer) will submit the Notice of Intent to the Arkansas Department of Environmental Quality (ADEQ) and obtain the NPDES Permit prior to beginning construction.** The Contractor will be responsible for implementing and maintaining all requirements under the Storm Water Pollution Prevention Plan (SWPPP). This includes, but is not limited to, installing best management practices (BMP), maintaining/replacing of BMPs when needed, stabilizing all disturbed areas on the project, completing inspection report forms at the frequency specified in the permit, and maintaining the SWPPP, all required postings, and rain gauge on the site. If the City of Centerton, AR, is issued a citation or fine for any storm water infractions or deficiencies by ADEQ, Environmental Protection Agency (EPA), or any other Entity having jurisdiction over storm water quality, because of negligence by the Contractor in maintenance of the SWPPP, the Contractor will be responsible for payment of the fines or citation fees. The amount of the fines shall be withheld out of the amount due to the Contractor. The BMPs shown in the erosion control plans are minimum

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measures and additional or different BMPs may be necessary in the field. The contractor shall add or modify BMPs as necessary and document these changes in the SWPPP as required.

- B. A copy of the permit and SWPPP will be furnished to the Contractor at the Pre-construction meeting.

## PART 2 PRODUCTS

### 2.1 MATERIALS

- A. Quick growing grasses such as wheat, rye, or oats in accordance with Section 32 92 19.
- B. Stone construction entrances and concrete washout as specified on Construction Drawings.
- C. Fencing and straw wattles for siltation control as specified on Construction Drawings.
- D. Acceptable Filter/Drainage Fabrics:
  - 1. Mirafi 140 N
  - 2. Dupont Tytar HR
  - 3. Approved alternate
- E. Curlex blankets by American Excelsior Company or approved alternate.
- F. Temporary mulches such as loose hay, straw, netting, wood cellulose, or agricultural silage.
- G. Fence stakes shall be minimum of 5-ft in length and be either metal stakes or 2-in. x 2-in. hardwood stakes driven 2' or 3' into ground respectively.
- H. Rip-Rap

## PART 3 EXECUTION

### 3.1 PREPARATION

- A. Review Construction Drawings and Storm Water Pollution Prevention Plan.
- B. Deficiencies or changes on Construction Drawings or Storm Water Pollution Prevention Plan as it is applied to current conditions will be brought to the attention of the Owner or his designated representative for remedial action.

### 3.2 EROSION CONTROL AND SLOPE PROTECTION IMPLEMENTATION

- A. Place erosion control systems in accordance with Construction Drawings and Storm Water Pollution Prevention Plan.

- B. The Owner or his designated representative has authority to limit surface area of erodible earth material exposed by clearing and grubbing, excavation, borrow, and embankment operations and to direct Contractor to provide immediate permanent or temporary pollution control measures. Contractor will be required to incorporate permanent erosion control features into project at earliest practical time to minimize need for temporary controls. Cut slopes shall be permanently seeded and mulched when finish grades are achieved as excavation proceeds to extent considered desirable and practical.
- C. Temporary erosion control systems installed by Contractor shall be constantly maintained to control siltation during life of contract. Contractor must respond to maintenance or additional work as required by the Owner or his designated representative within 48 hours.
- D. Additional material and work required and authorized by the Owner or his designated representative which is beyond extent of Construction Drawings and Storm Water Pollution Prevention Plan shall be paid for by Owner.
- E. Contractor is totally responsible to protect all slopes when erosion begins by whatever methods necessary.

END OF SECTION