

SECTION 022770
TEMPORARY SILT FENCE

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. The Drawings and provisions of the General Conditions, Special Conditions, and the Sections included under Division 1, General Requirements, are included as part of this Section as though bound herein.
- B. North Carolina Sediment Control Commission, "Erosion and Sediment Control Planning and Design Manual" and all local codes and ordinances whichever is more stringent.

1.2 WORK INCLUDED

- A. The work covered by this Section consists of the furnishing, installing, maintaining, replacing as needed, and removing of temporary silt fence. The Contractor shall furnish all equipment, tools, labor and materials necessary to complete the work in accordance with the plans and specifications. All materials and procedures shall conform to the requirements of DEHNR.

PART 2 - PRODUCTS

2.1 MATERIALS

- A. Temporary silt fence shall be a water permeable filter type fence for the purposes of removing suspended particles from the water passing through it.
- B. Steel posts shall be used. Steel posts shall be at least 5 feet in length, approximately 1-3/8 inches wide measured parallel to the fence, and have a minimum weight of 1.25 lb/ft of length. The post shall be equipped with an anchor plate having a minimum area of 14.0 square inches, and shall have a means of retaining wire and fabric in the desired position without displacement.
- C. Woven wire fence fabric shall be at least 32 inches high, and shall have at least 6 horizontal wires. Vertical wires shall be spaced 12 inches apart. The top and bottom wires shall be at least 10 gage. All other wires shall be at least 12-1/2 gage.
- D. Silt fence filter fabric shall meet the requirements of Type 3 Engineering Fabric, Class A or B. Silt fence which fails to perform in an acceptable manner shall be replaced with silt fence which is capable of acceptable performance.
- E. Wire staples shall be a No. 9 staple and shall be at least 1-1/2 inches long.

PART 3 – EXECUTION

3.1 GENERAL REQUIREMENTS

- A. The Contractor shall install temporary silt along ductbank construction to provide erosion control for the lower areas of the site. The silt fence shall be constructed at all locations necessary to prevent sediment transport, as directed by the Owner's Representative.
- B. Class A synthetic filter fabric may be used only in conjunction with woven wire fence fabric backing. Filter fabric shall be attached to the wire fence fabric by wire or other acceptable means.
- C. Class B synthetic filter fabric may be used without the woven wire fence fabric backing, subject to the following conditions:
- D. Post spacing is reduced to a maximum of 6 feet.
- E. The proposed fabric has been approved by the Owner's Representative as being suitable for use without the woven wire fence fabric backing.
- F. Fence posts shall be inclined toward the runoff source at an angle of not more than 20 degrees from vertical.
- G. Posts shall be installed so that no more than 3 feet of the post shall protrude above the ground. Where possible, the filter fabric from a continuous roll cut to the length of the barrier shall be used to avoid joints. When joints are necessary, securely fasten the filter cloth only at a support post with overlap to the next post. At the time of installation, the fabric will be rejected if it has defects, rips, holes, flaws, deterioration, or damage incurred during manufacture, transportation, or storage.

3.2 MAINTENANCE AND REMOVAL

- A. The Contractor shall inspect temporary silt fences at least once a week and after each rainfall and shall make any required repairs and remove and dispose of silt accumulation immediately. Should the fabric of the silt fence collapse, tear, decompose or become ineffective, the Contractor will replace it promptly at his own expense. The Contractor shall remove sediment deposits as necessary to provide adequate storage volume for the next rain and to reduce pressure on the fence.
- B. The Contractor shall remove all temporary silt fence and associated appurtenances once all disturbed areas upland of the fence are properly and satisfactorily stabilized as called for on the plans.

END OF SECTION 022770