

**SECTION 02376**

**EROSION CONTROL BLANKETS/CHANNEL LINERS**

**PART 1 GENERAL**

**1.1 SECTION INCLUDES**

- A. Approved erosion control products for slopes and channels.
- B. Installation requirements.

**1.2 RELATED SECTIONS**

- A. Section 02920: Seed, Turf Seed, and Turf Sod

**1.3 REFERENCES**

- A. TxDOT/TTI Hydraulics and Erosion Control Laboratory Field Performance Testing of Selected Erosion Control Products.
- B. Erosion Control Pilot Study - Caltrans Document No. CTSW-RT-00-012

**1.4 DEFINITIONS**

- A. Erosion Control Blanket: Fabric applied on slopes to prevent soil erosion and protect the seedbed.
  - 1. Machine-produced fabric consisting of elongated wood or coconut fibers or straw that are bonded together.
  - 2. Hydraulically applied bonded fiber matrix.
- B. Flexible Channel Liner: A machine-produced mat consisting of elongated materials that are bonded together and used to line channels.

**1.5 SUBMITTALS**

- A. A sample of the blanket or liner, staples and other materials used, manufacturer's specifications, and recommended installation requirements.

## **1.6 DELIVERY, STORAGE, AND HANDLING**

- A. Deliver products in original wrapping showing the name of the manufacturer and product description.

## **PART 2 PRODUCTS**

### **2.1 EROSION CONTROL BLANKETS**

- A. Contact UDOT Region Landscape Architect for Approved List of Erosion Control Blankets. Approved list is updated annually.

### **2.2 FLEXIBLE CHANNEL LINERS**

- A. Contact UDOT Region Landscape Architect for Approved List of Channel Liners. Approved list is updated annually.
- B. TYPE A: Meet testing requirements for a shear stress range 0-4 pounds per square foot.
- C. TYPE B: Meet testing requirements for a shear stress range 0-8 pounds per square foot.

## **PART 3 EXECUTION**

### **3.1 PREPARATION**

- A. All required grading and seeding in areas to receive erosion control blanket or channel liner should be completed and approved before placing the product.
- B. Apply the blanket or liner within 24 hours after seeding or before precipitation falls.
- C. If the blanket is not installed and a precipitation event occurs creating soil erosion, replace eroded material, rework the soil, and reseed before installing the blanket or liner.

### **3.2 INSTALLATION**

- A. Install the erosion control blanket or channel liner strictly following manufacturer's specifications.

- B. Minimize disturbance of the prepared seedbed.
- C. Allow the blanket or liner to lay loosely on the soil to achieve maximum soil contact. Remove roots, branches, or other loose objects that cause the blanket or channel liner to “tent”. Place roots and branches on areas already blanketed. Do not stretch the blanket during installation.
- D. Staple the blanket or liner using manufacturer’s specifications. Staple requirements vary according to the steepness and length of the slope.
- E. Place additional staples in areas such as: swales, base of humps, against rock outcrops and as required to achieve maximum contact between the blanket and the soil.

END OF SECTION