

SPECIAL SPECIFICATION**XXXX****Temporary Erosion Control Device**

1. **Description.** Furnish, install, maintain, and remove temporary erosion control devices as shown on the plans. This item will be used temporarily during construction to control erosion and sedimentation.
2. **Materials.**
 - A. **Core Material.** Furnish wood based mulch as core material. No particle size will be greater than 3 in.
 - B. **Containment Mesh.** Furnish containment mesh that is high density polyethylene with a yield strength between 1,500 to 2,000 PSI.

Individual strands shall be extruded with individual strands of 0.012 to 0.015. Strands will be woven into netting with “pulled square” opening sizes from 5/16 to ¾ inches wide and with knots 0.03 to 0.04 inches thick.
 - C. **Size.** Furnish temporary erosion control devices with a diameter of 18 in. or as shown on the plans or as directed.
3. **Construction.** Install temporary erosion control devices near the downstream perimeter of a disturbed area to intercept sediment from sheet flow or to protect the limits of construction boundaries. Incorporate the temporary erosion control devices into the erosion control measures used to control sediment in areas of higher flow. Locate, align, and install the temporary erosion control devices as specified below, as shown on the plans, or as directed. Coordinate the placement of access areas as required to facilitate construction operations.
 - A. **Filling.** Provide pneumatic air blowing equipment to fill temporary erosion control devices on site. When full, mesh diameter will be 20% to 150% larger than the “pulled square” diameter. Clamp filled mesh with plastic lock ties or knot in such a way as to ensure the permanent closure of all ends. Temporary erosion control devices will have a maximum length of 100 feet.
 - B. **Anchoring.** Secure temporary erosion control devices in a method adequate to prevent displacement as a result of normal rain events and so that storm water flow is unable to pass under devices. Install a cradle of Erosion Control Compost to ensure that storm water flow does not pass under devices when placing them across ditches. Stakes used for anchoring will be driven from the upstream angle.
4. **Maintenance.** Routinely inspect and maintain the temporary erosion control devices in good condition (including staking, anchoring, etc.). Maintain the integrity of the control, including keeping the temporary erosion control devices free of accumulated silt, debris, etc., until

earthwork construction and permanent erosion control features are in place, or the disturbed area has been adequately stabilized. Stabilize as described in Item 506, Article 506.4. “Temporary Erosion, Sedimentation, and Environmental Controls.” Stabilize the areas damaged by the removal process using appropriate methods as directed.

Repair or entirely replace torn or punctured temporary erosion control devices as required and as directed. A stockpile of temporary erosion control devices each 5 ft. in length to be used as patches will be kept by the Contractor.

Remove the accumulated sediment deposit when it reaches a depth of approximately 6 in. and dispose of it at an approved site in a manner that will not contribute to additional siltation. If water remains standing to a depth of at least 60% the height of the temporary erosion control device 24 hours after a rainfall event, keep the existing device in place and install a new device a minimum distance of 5 ft. downstream.

5. **Removal.** Remove all temporary erosion control devices when adequate cover has been established. Cut the containment mesh along the length of the temporary erosion control device and disperse contents to a maximum depth of 2 in. Containment mesh becomes the property of the Contractor and will be disposed of off of the right of way.
6. **Measurement.** This Item will be measured by the linear foot, complete in place, measurement being made along the centerline of the top of the controls.

Each time the Engineer directs that the temporary erosion control devices (or portions thereof) be removed or removed and replaced, it will be measured for payment.

7. **Payment.** The work performed and materials furnished in accordance with this Item and measured as provided under “Measurement” will be paid for at the unit price bid for “Temporary Erosion Control Devices,” of the size specified. This price is full compensation for furnishing, placing, maintaining, temporarily removing and replacing as required to facilitate construction operations, and removing of the temporary erosion control devices and for all other materials, labor, tools, equipment, and incidentals.

Removing accumulated sediment deposits, as described under “Maintenance,” will be measured and paid for under the pertinent bid items of the Special Specification, “Earthwork for Erosion Control.”

Stabilization (as described under “Maintenance”) will be measured and paid for under the various pertinent bid items.