

## **SECTION 323 – EROSION CONTROL MATTING**

### **323.1 Description**

This item shall consist of the placement of erosion control matting and turf reinforcement to prevent erosion for various spillways, slopes, and ditches located on the design plans or as directed in the field. Use of this material does not relieve the Contractor from soil preparation and seeding requirements as detailed in other specification sections.

### **323.2 Materials and Products**

Requests for substitutions of material products specified shall be accompanied by complete product data documenting materials and performance and must be approved by the Construction Manager. Channel applications shall comply with MCDPS Water Resources Section requirements for Turf Reinforcement.

**Straw Blankets** – Straw blankets shall consist of agricultural straw stitched into mats between two natural fiber nets (S150BN by North American Green, or approved equal). Materials may be used on slopes and shall provide effective protection for one year.

**Coir Matting** – Coir matting shall consist of machine-spun bristle twines woven into erosion control blankets (weight 780 g/m<sup>2</sup>) (BioD-Mat70 by RoLanka International, or approved equal). Materials may be used on slopes and channels where velocities will not exceed 12 fps and shall provide effective protection for four to six years.

**Coir-Synthetic Turf Reinforcement Matting** – Coir matting shall consist of machine-spun bristle twines woven into erosion control blankets (weight 780 g/m<sup>2</sup>) (BioND-TRM by RoLanka International, or approved equal). Materials may be used on slopes and channels where velocities will not exceed 18 fps and shall provide permanent effective protection.

**Turf Reinforcement Matting using Enkamat** – Matting shall be three-dimensional geomatrix of heavy nylon monofilaments fused at their intersections (Enkamat 7010 by Colond, or approved equal). All Enkamat installations shall be soil-filled prior to stabilization. Materials may be used on slopes and channels where velocities will not exceed 12 fps and shall provide permanent effective protection.

**Erosion Control Blankets using Curlex** – Erosion blankets shall consist of interlocking curled excelsior wood fibers stitched together with biodegradable thread (Curlex NetFree by American Excelsior Company, or approved equal). Materials may be used on 3:1 slopes where shear stress will not exceed 1 lb/sf and shall provide temporary protection until vegetation is established.

### **323.3 Installation**

All materials shall be installed per manufacturer's specifications and MCDPS requirements. All materials shall be properly secured and shingled in sections according to actual flow path of surface water.

### **323.4 Measurement and Payment**

Payment will be full compensation for all material, labor, equipment, tools and incidental items necessary to complete the work including of utilities. Measurement and payment shall be made on a unit rate per square yard basis as shown in the bid proposal for erosion control matting installation.