Make	this section a part of the Standard Specifications:		
"SECTION 663 - EROSION CONTROL MATTING			
contro	Description. This section describes furnishing and installing an erosion matting on cut and fill slope faces, including drainage swales, as shown contract documents.		
663.02	2 Materials.		
	(A) General. The erosion control matting shall be a multi-layered geosynthetic netting specifically designed for erosion control as a long-term installation. The erosion control matting shall provide erosion protection for at least 36 months during vegetation establishment. The matting shall allow grass or other natural ground cover to grow and take root through the matting. The internal matrix material color shall be green or brown and the outer net material shall be black.		
	(B) Physical Properties. The erosion control matting shall have the following minimum physical properties;		
	(1) Materials shall be manufactured from polyethylene, polypropylene, polyolefin or nylon.		
	(2) Thickness of the erosion control matting shall be 0.30 inches minimum according to ASTM D 5199.		
	(3) Ultraviolet stability . – ASTM D 4355 (tensile strength retained after 1000 hours) 80%.		
	(4) Porosity (calculation based upon weight, thickness and specific gravity) minimum 95%.		
	(5) Resiliency (thickness retained after 3 cycles of a 100 psi load for 60 seconds followed by 60 seconds without load-thickness measured 30 minutes after load removed by ASTM D 1777) 75% minimum.		
	(6) Tensile strength – ASTM D 5305, 2-inch Strip Test, 95 x 95 lbs/foot minimum.		
	(7) Elongation – ASTM D 5305, 2-inch Strip Test, 70% x 70% maximum,		
	(C) Brochures and Manufacturer's Certification. The manufacturer of the erosion control matting shall submit brochures and certifications		

stating the quality of the material meet the intended use on the project. The certification shall clearly show the product number or other similar control number, which match the markings on the product delivered to the site. The manufacturer shall furnish certified test reports with each shipment attesting that the erosion control matting meets the requirements of the specification for material physical properties. Samples of the erosion control matting shall also be submitted to the Engineer.

663.03 Construction.

- **(A) General**. Place erosion control matting on cut and fill slope faces, including drainage swales, as shown on contract documents.
- (B) Installation.
 - (1) Installation Plan. Submit an installation plan prior to any work on the slope.
 - **(2) Site Preparation.** Grade and compact the slope face properly. Remove all materials such as rocks and vegetation that would interfere with the soil and the erosion control matting.
 - (3) Anchor Trenches. Anchor trenches shall be as recommended by the manufacturer. The trenches shall be a minimum of eight inches deep and eight inches wide before placing the erosion control matting, Backfill and compact trenches properly to the original requirements of the slope.
 - (4) Planting. Install the erosion control matting prior to hydro-mulching to retain good seed distribution and avoid disturbance of the hydro-mulching by work crews. Hydro-mulching may be done before mat placement; however, the disturbed areas must be corrected by re-hydro-mulching at no cost to the State.
 - **(5) Placement.** Place the erosion control matting according to the manufacturer's recommendations. The matting roll ends shall be overlapped a minimum of 18 inches. The adjacent edges of the matting shall be overlapped a minimum of 3 inches.
 - **(6) Anchoring.** Anchor the erosion control matting at overlaps with 12-inch x 2-inch x 12-inch 8G metal staples. The distribution of the staples shall be a minimum of two per square yard and spaced as recommended by the matting manufacturer. The Engineer will not allow wood anchors, such as pegs or stakes of any kind. Alternate anchoring methods may be allowed if approved by the matting manufacturer and accepted by the Engineer:

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94	For installation in rock area, anchor matting according to the		
95	manufacturer's recommendations.		
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97	(7) Repairs. Correct tears and	d holes in the erosion control	
98	matting with a minimum of 3-foot overlap in each direction of the		
99	damage. Re-hydromulch the repaired area if ordered by the		
100	Engineer. Repair and/or replace the damaged or defective erosion		
101	control matting at no additional cost to the State.		
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103	o o o o o o o o o o o o o o o o o o o		
104	per square yard in accordance with the contract doo	cuments.	
105	000 05 B (T) 5 ''' (
106	663.05 Payment. The Engineer will pay for the accepted erosion control		
107	matting at the contract price per square yard. Payment will be full compensation		
108	for the work prescribed in this section and the contri	act documents.	
109 110	The Engineer will now for the following no	y Itam when included in the	
110	The Engineer will pay for the following pay Item when included in the proposal schedule:		
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112			
113	Pay Item Pay Uni		
114			
115	Erosion Control Matting	Square Yard"	
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120	END OF SECTION 6	63	