

5.16 EROSION CONTROL MATTING

1. DESCRIPTION - A geomembrane or biodegradable fabric placed over disturbed ground areas or immediately downstream of disturbed ground areas.

2. PURPOSE - To limit the effects of erosive runoff, rainfall impact, and to control minor amounts of sediment runoff.

3. APPLICATIONS - Matting can be used on any construction-related disturbed land areas, but are particularly effective for erosion control on short steep slopes and channel bottoms or sides. They are also well suited for sheet flow sedimentation control from small drainage areas on flat grades.

4. LIMITATIONS - Although matting can be highly effective for erosion control, it may be less cost effective than other BMPs in certain situations. When used for sedimentation control the drainage area must be kept small enough to ensure sheet flow on to the matting at relatively flat grades (i.e. low velocities).

5. DESIGN CRITERIA -

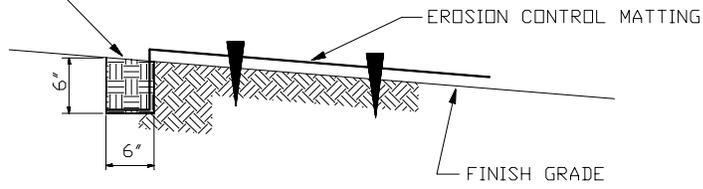
A. Matting for Erosion Control and Flexible Channel Liners - Follow the manufacturer's recommendations.

B. Sedimentation Control - Limit drainage area to 30 feet per linear foot of mat.
Max. Slope \leq three percent (3%).

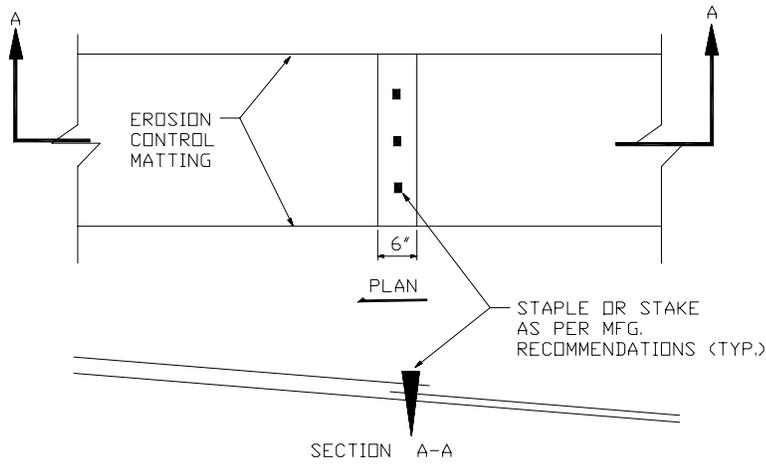
6. MATERIAL SPECIFICATIONS - Products listed in the most recent TxDOT Approved Product List for slope protection and flexible channel liners. Mats are usually installed according to the manufacturer's recommended guidelines. Manufacturer's information will verify acceptable applications for a particular product.

7. MAINTENANCE REQUIREMENTS - Inspect the erosion control matting installations after all rainfall events to ensure that the facilities are functioning properly and have not been displaced by runoff. Particular attention must be paid to the upstream ends of channel linings and slope protection, as well as the joints between adjacent mats. Repair any damaged areas promptly and replace any displaced matting. Additional staking may be required on steeper slopes and in channel bottoms.

TRENCH EROSION CONTROL
MATTING AT UP-STREAM
END. BACKFILL W/ SOIL
& COMPACT.



UPSTREAM ANCHORING



TYPICAL JOINT OVERLAP

EROSION CONTROL MATTING

N.T.S.

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