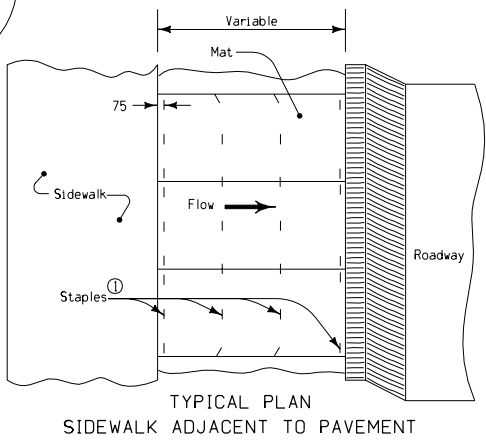
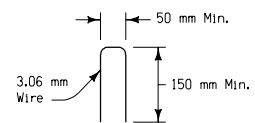


- ① Space top row of staples at 450 millimeter centers, bottom row at 900 millimeter centers, and all others at 600 millimeter centers.
- ② Where erosive gullies have developed in backslope, they shall be filled with soil and compacted prior to placement of mat.
- ③ 1.2 meters minimum, 2.4 meters maximum or as specified. Place staples the same as for Special Ditch Control.
- ④ Where excelsior mat is to be placed as Special Ditch Control, the slope protection shall be installed to facilitate placement of the ditch control as indicated (Alternate B). Where there is no Special Ditch Control, install slope protection as shown (Alternate A).
- ⑤ 1.2 meters unless specified otherwise for foreslope protection.
- ⑥ If erosive rill has developed adjacent to shoulder material, it shall be filled with suitable soil and compacted prior to placement of mat.



GENERAL NOTES:

Wood excelsior mat for slope protection shall be installed as indicated. Materials and methods of installation shall be in conformance with current Standard and Supplemental Specifications and as directed by the Engineer.

The wood excelsior mat shall be subject to approval by the Engineer at the job site. Approval of the final project constitutes approval of the material.

The work of providing suitable earth surface for placement of slope protection shall be considered incidental to preparation of seedbed. Measurement of "Slope Protection, Wood Excelsior Mat", shall be the actual ground surface area covered by the mat.

Special care shall be taken to ensure that ground surface adjacent to any channels are shaped to facilitate natural drainage into the protected area. Seedbed preparation, seeding, and fertilizing shall be in accordance with current Standard and Supplemental Specifications. Prior to the placement of wood excelsior mat, the ground shall be uniformly even with the surface of any adjacent concrete.

Excelsior mat for backslope protection is installed with strips placed approximately perpendicular to roadway. Locations for slope protection shall be as shown on detail plan.

Excelsior mat for foreslope protection is installed with strips placed approximately parallel to roadway. The location, width and number of strips shall be as specified on project plans.

Price bid per square meter for "Slope Protection, Wood Excelsior Mat", shall be considered full compensation for installation of mat in accordance with details shown hereon, in project plans or as otherwise directed by the Engineer.

SPECIAL NOTE:

The wood excelsior mat shall comply with the following minimum requirements:

A mat of interlocking wood fibers with a plastic netting applied to both sides for holding the excelsior in place. The mat shall be non-toxic to the growth of plants and germination of seeds. The mat shall be furnished in rolls as follows:

- Width of strips – min. 1.2 meters, plus or minus 25 millimeters
- Length of Rolls – min. 55 meters
- Min. Wt. per Square Meter – 0.47 kilograms

The netting applied to both sides of the mat shall have a mesh size approximately 16 millimeters by 19 millimeters. Netting shall be polypropylene and otherwise protected to prevent damage from weather conditions and handling.

All dimensions given in millimeters unless noted.

METRIC VERSION	M Iowa Department of Transportation Project Development Division	
	STANDARD ROAD PLAN	RC-14
	REVISION: Redrawn in CADD.	REVISION NO. 3
	APPROVED BY: DESIGN METRICS ENGINEER	12-28-98 REVISION DATE 04-27-99
SLOPE PROTECTION DETAILS (WOOD EXCELSIOR MAT)		