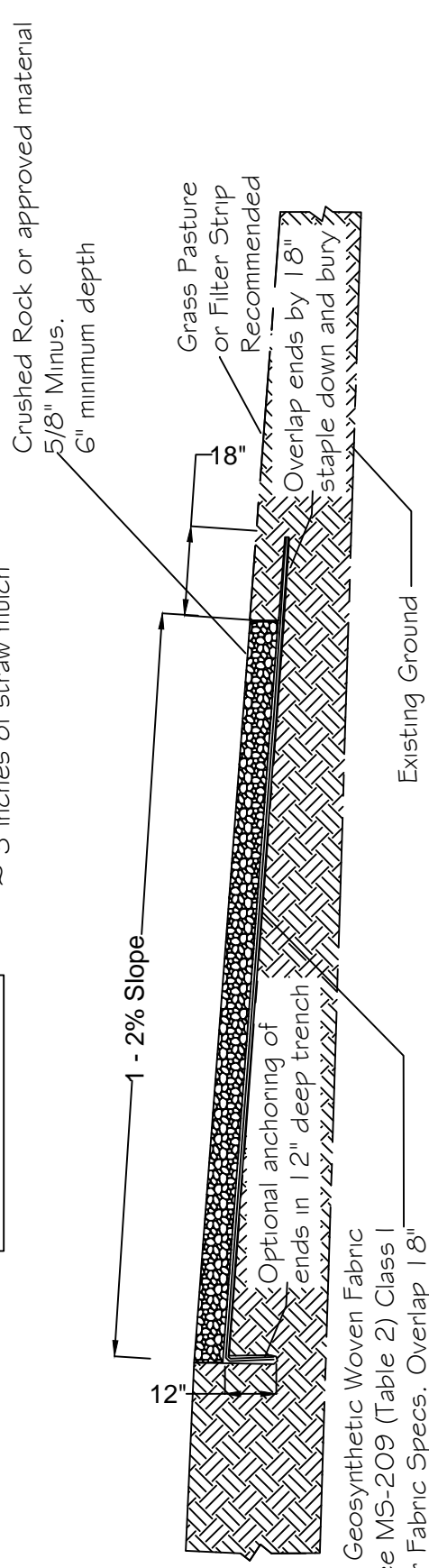




HEAVY USE AREA PROTECTION

NATIVE SEED MIXTURE
 30% TALL FESCUE
 40% CREEPING RED FESCUE
 30% ANNUAL RYE GRASS
 SEEDING RATE: 25 LBS./ACRE

Recommended Grass mixture for pasture filter strip. Note: Protect all seeded areas with ~ 3 inches of straw mulch



**NOT TO SCALE
 DETAIL**

The work shall consist of furnishing all materials, equipment, and labor necessary for the installation of geotextiles.

Geotextile fabric shall conform to the requirements of Material Specification MS-209.

Prior to use, the geotextile shall be stored in a clean dry place, out of direct sunlight, not subject to extremes of either hot or cold, and with the manufacturer's protective cover in place.

The surface on which the geotextile is to be placed shall be graded to the neat lines and grades as shown on the drawings or above. The surface shall be reasonably smooth, free of holes, depressions, and projections. Excessively wet, muddy conditions should be avoided where geotextiles will be placed against an excavation or prepared slope. The concentration of wet fines can provide a cake which may block or seal off part of the geotextile. The surface preparation will be inspected and approved by the Technician prior to placing the geotextile.

The geotextile shall be placed on the approved prepared surface at the locations and in accordance with the details shown on the drawings. The geotextile shall be unrolled along the placement area and loosely laid (not stretched) in such a manner that it will conform to the surface irregularities when the rock or other material is placed on or against it. No cuts or punctures will be permitted in the geotextile unless otherwise specified. The geotextile may be folded and overlapped to permit proper placement in the designated area.

The length shall be placed parallel to the direction of water flow unless otherwise indicated on the drawings. The end roll details shall be as shown on the drawings. The minimum overlap shall be 18 inches (Note: This requirement supercedes CS-67 for overlap).

Securing pins (sod staples or landscape staples), provided by the geotextile manufacturer, shall be placed along the edge of the geotextile to adequately secure it during placement. Pins shall be steel or fiberglass formed as a "U", "L", or "T" shape or contain "ears" to prevent total penetration. Steel washers shall be provided on all but the "U"-shaped pins. At vertical laps, securing pins shall be inserted through both layers along a line through the approximate midpoint of the overlap. At horizontal laps and laps across slopes, securing pins shall be inserted through the bottom layer only. Securing pins shall be placed along a line approximately 2 inches in from the edge of the outer limits of the placed geotextile at intervals not greater than 12 feet unless otherwise specified. Additional pins shall be installed as necessary to prevent any slippage of the fabric, regardless of location. The use of securing pins will be held to the minimum necessary. Pins may be left in place unless otherwise specified. The fabric may be secured with other methods when specified. See CS-67 for additional requirements for securing Geotextile with pins.

The geotextile shall not be placed until rock or other material can be used to cover it within the same working day. In no case shall rock or other material be dropped on uncovered geotextile from a height greater than 3 feet. Rock or other material shall be placed with an excavator or other similar type of machinery. End dumping, pushing, and rolling rocks or other material over the geotextile shall not be permitted. Smoothing with a dozer or other similar type of machinery will be permitted once final grade is achieved.