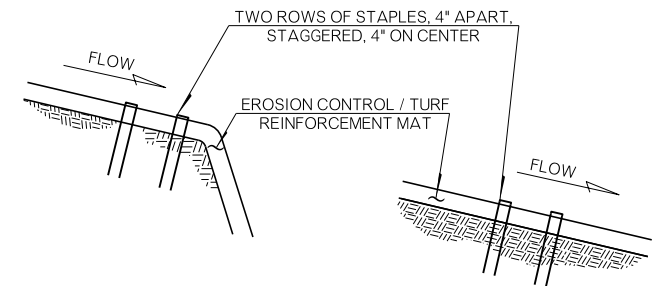
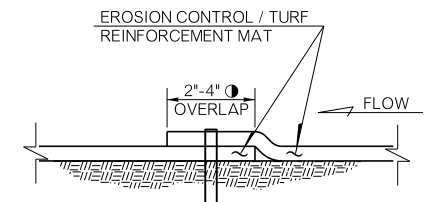


CONSECUTIVE ROLL SEAM

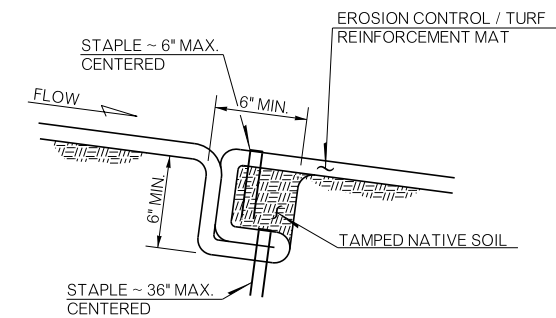


SLOPE AT TOP OF CREST
CHANNEL AT 50' INTERVALS
CHECK SEAM / SLOT



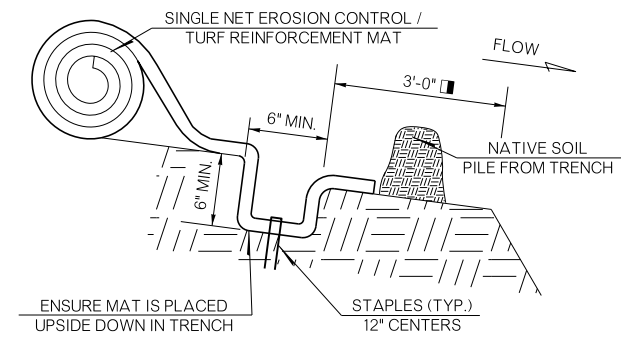
STAPLES ARE THROUGH BOTH BLANKETS. SPACING IS ACCORDING TO THE MANUFACTURER'S STAPLE GUIDANCE.

ADJACENT MAT SEAM

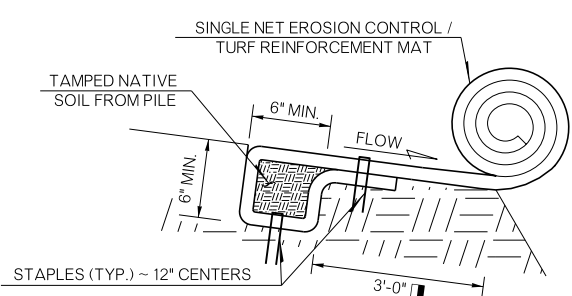


TRENCH CHECK SLOT
PREFERABLY USED IN CHANNELS AND IS AN OPTION ON SLOPES

SEAMS / SLOTS OPTIONS



STEP ONE

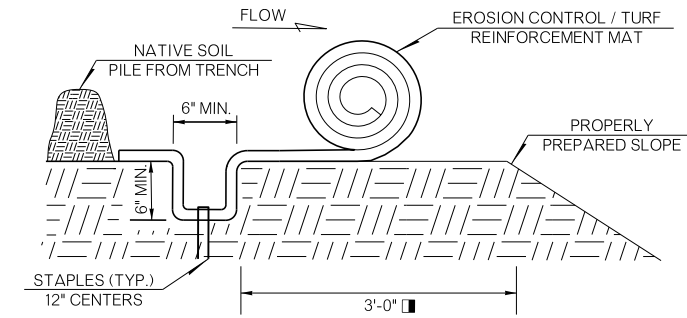


STEP TWO

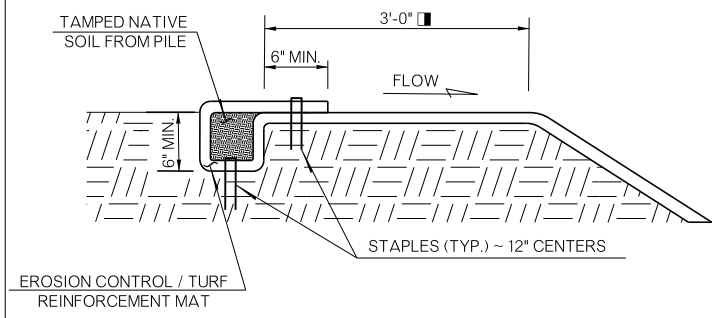
SINGLE NET PRODUCT SLOPE APPLICATION

ALTERNATIVELY, ANCHOR TRENCHES MAY BE INSTALLED AT THE CREST OF THE SLOPE

ANCHOR TRENCH



STEP ONE



STEP TWO

ALL OTHER TYPES OF MAT CHANNEL APPLICATION

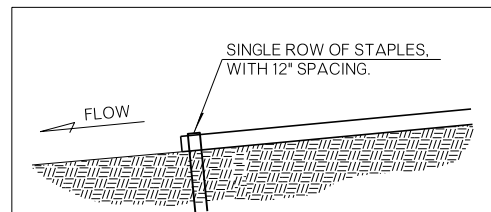
EROSION CONTROL MATS				
PROPERTY AND TEST METHOD	TYPE 1	TYPE 2	TYPE 3	TYPE 4
	SINGLE, DOUBLE OR NO NET	DOUBLE NET	DOUBLE NET	DOUBLE NET
SLOPE APPLICATION, MAXIMUM GRADIENT	4H:1V	3H:1V	3H:1V	2H:1V
FUNCTIONAL LONGEVITY ^o	3-6 MOS.	6-12 MOS.	12-24 MOS.	24-36 MOS.
MINIMUM TYPICAL TENSILE STRENGTH ASTM D 6818 *MD & TD ^b	50 LBS/ FT	75 LBS/ FT	100 LBS/ FT	125 LBS/ FT
MIN. SHEAR STRESS ^c ASTM D 6460	1.50 LBS/SF	1.75 LBS/SF	2.00 LBS/SF	2.25 LBS/SF
MAX. C-FACTOR ^d (COVER FACTOR) ASTM D6459	0.15 AT 3H:1V	0.20 AT 2H:1V	0.25 AT 1.5H:1V	0.25 AT 1H:1V

^o LONGEVITY CLASSIFICATION BY THE EROSION CONTROL TECHNOLOGY COUNCIL (ECTC).
^b VALUE SHOWN IS THE STRENGTH IN EACH DIRECTION: MD - MACHINE DIRECTION, TD=TRANSVERSE DIRECTION.
^c REQUIRED MINIMUM SHEAR STRESS RECP (UNVEGETATED) CAN SUSTAIN WITHOUT PHYSICAL DAMAGE OR EXCESS EROSION (1/2 IN. SOIL LOSS) DURING A 30-MINUTE FLOW EVENT IN LARGE-SCALE PERFORMANCE TESTING, ASTM D6460.
^d C-FACTOR IS THE PERCENT EFFECTIVENESS OF THE MAT IN PREVENTING SOIL LOSS FROM THE RAINFALL IMPACTING THE SLOPE. ITS VALUE IS INVERSELY PROPORTIONAL TO PERCENT EFFECTIVENESS, IN WHICH THE SMALLER THE C-FACTOR, THE GREATER THE EFFECTIVENESS.

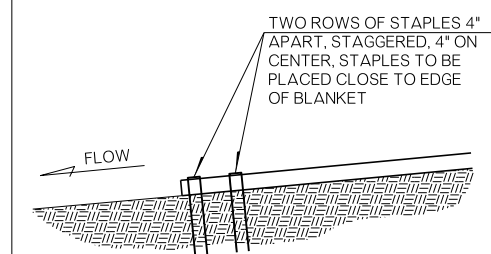
TURF REINFORCEMENT MATS				
PROPERTY AND TEST METHOD	TYPE 1	TYPE 2	TYPE 3	TYPE 4 (HIGH PERFORMANCE)
MIN. UV STABILITY ASTM D4355	80% AT 500 HRS.	80% AT 1000 HRS.	80% AT 1,000 HRS.	80% AT 3,000 HRS.
MINIMUM TYPICAL TENSILE STRENGTH, MACHINE DIRECTION ASTM D 6818	150 LBS/FT	200 LBS/FT	650 LBS/FT	3000 LBS/FT
MIN. SHEAR STRESS, FOR CHANNEL APPLICATIONS, VEGETATED (ASTM D 6460)	6 LBS/SF	10 LBS/SF	12 LBS/SF	14 LBS/SF
SLOPE APPLICATION MAXIMUM GRADIENT	1H:1V	1H:1V	0.5H:1V	0.5H:1V

GENERAL NOTES

1. THE LOCATION OF ALL DETAIL DRAWINGS SHOWN ON THIS SHEET ARE SHOWN ON THE 2019 ROADWAY STANDARD EROSION CONTROL / TURF REINFORCEMENT MAT INSTALLATION DETAILS (1 OF 2 SHEETS).
2. EROSION CONTROL MATS ARE TYPICALLY USED WHERE MULCHING IS NOT SUFFICIENT TO CONTROL EROSION AND SOIL STABILITY DURING VEGETATION ESTABLISHMENT. EROSION CONTROL MATS ARE USUALLY TEMPORARY IN NATURE AND ARE MADE UP OF DEGRADABLE FIBERS AND MESH.
3. TURF REINFORCEMENT MATS ARE FOR PERMANENT STABILIZATION OF ERODIBLE AREAS, EVEN AFTER VEGETATION IS ESTABLISHED. IN DITCHES WHERE THE SHEAR STRESSES ARE NEAR OR ABOVE 2 PSF, IT MAY BE MORE EFFICIENT TO USE TURF REINFORCEMENT MAT.
4. IF THERE ARE SIGNS OF RILLING UNDER THE MAT, INSTALL MORE STAPLES. IF RILLING BECOMES SEVERE ENOUGH TO PREVENT ESTABLISHMENT OF VEGETATION, REMOVE THE SECTION OF MAT WHERE THE DAMAGE HAS OCCURRED. FILL THE ERODED AREA WITH TOPSOIL, COMPACT, RESEED AND REPLACE THE SECTION OF MAT, TRENCHING AND OVERLAPPING ENDS PER MANUFACTURER'S RECOMMENDATIONS. ADDITIONAL STAKING IS RECOMMENDED NEAR WHERE RILLING WAS FILLED.
5. TRENCHING DIMENSIONS FOR ALL TYPES OF MATS SHALL BE 6 INCHES WIDE AND 6 INCHES TALL. STAPLE PATTERNS SHALL BE THE SAME FOR ALL MAT TYPES.
6. ALL INSTALLATION INFORMATION IS TYPICAL IN NATURE AND DOES NOT REPRESENT ANY SPECIFIC MAT. CONSULT WITH MANUFACTURER FOR SPECIFIC INSTALLATION PROCEDURES.



STAPLES



CHECK SEAM / SLOT
TERMINAL ENDS OPTIONS

APPROVED BY ROADWAY ENGINEER: *[Signature]* DATE: 6/29/22
ROADWAY DESIGN DIVISION STANDARD

EROSION CONTROL / TURF REINFORCEMENT MAT INSTALLATION DETAILS (2 OF 2 SHEETS)

