



Erosion Control Blankets Turf Reinforcement Matting



Product Application & Comparison Guide

PRODUCT	DESCRIPTION	FUNCTIONAL LONGEVITY	TYPICAL APPLICATION	FHWA-FP03 ECTC CATEGORY	SHEAR STRESS (lbs/ft ²)	COMPARATIVE PRODUCTS
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SHORT TERM EROSION CONTROL BLANKETS

ETRS-1	100% straw fill; 1.5lb photodegradable polypropylene top net	12 MO.	4:1 to 3:1 Slopes, Low Flow Channels	2.C	2.05	NAG S75®, WG Excel SR-1™, AEC Premier Straw® SN, EC ECS-1
ETRS-1-RD	100% straw fill; 1.5lb accelerated photodegradable polypropylene top net	90 DAYS	4:1 to 3:1 Slopes, Low Flow Channels	1.C	2.05	NAG DS75®, WG Excel SR-1 Rapid Go™, EC ECS-1D
ETRS-2	100% straw fill; 1.5lb photodegradable top and bottom net	12 MO.	3:1 to 2:1 Slopes, Medium Flow Channels	2.D	2.0	NAG S150, WG Excel SS-2™, AEC Premier Straw® DN, EC ECS-2
ETRS-2-RD	100% straw fill; 1.5lb accelerated photodegradable top and bottom net	90 DAYS	3:1 to 2:1 Slopes, Medium Flow Channels	1.D	2.0	NAG DS150®, WG Excel SS-2 Rapid Go™, EC ECS-2D
ETX-1	100% excelsior wood fill; 1.5lb polypropylene top net	12 MO.	3:1 to 2:1 Slopes, Medium Flow Channels	2.C	ND	WG Excel R-1™, Curlex® I, EC ECX-1
ETX-2	100% excelsior wood fill; 1.5lb polypropylene top and bottom net	12 MO.	2:1 to 1:1 Slopes, Medium Flow Channels	2.D	2.5	NAG S150, WG Excel SS-2™, AEC Premier Straw® DN, EC ECX-2

EXTENDED TERM EROSION CONTROL BLANKETS

ETSC-7030	70% straw 30% coconut fill; 3lb UV stabilized polypropylene top net, 1.5lb photodegradable bottom net	24 MO.	2:1 to 1:1 Slopes, Medium Flow Channels	3.B	2.5	NAG SC150, WG Excel CS-3™, AEC Premier Straw/Cocoanut™, EC ECSC-2
ETX-3	100% excelsior wood fill; 3lb UV stabilized polypropylene top and bottom net	24 MO.	2:1 to 1:1 Slopes, Medium Flow Channels	3.B	ND	WG Excel R-2™, Curlex® II, EC ECX-2
ETC-100	100% coconut fill; 3lb UV stabilized polypropylene top and bottom net	36 MO.	1:1 and Greater Slopes, High Flow Channels	4	ND	NAG C125®, WG Excel CC-4™, AEC Premier Coconut™, ECC-2

BIODEGRADABLE EROSION CONTROL BLANKETS

ETRS-1-BN	100% straw fill; 55gsm/9.3lb jute top net	12 MO.	4:1 to 3:1 Slopes, Low Flow Channels	2.C	ND	NAG S75BN®, WG Excel SR-1 All Natural™, AEC Premier Straw® SN FibreNet™, EC ECS-1B
ETRS-2-BN	100% straw fill; 55gsm/9.3lb jute top and bottom net	12 MO.	3:1 to 2:1 Slopes, Medium Flow Channels	2.D	2.02	NAG S150BN®, WG Excel SS-2 All Natural™, AEC Premier Straw® DN FibreNet™, EC ECS-2B
ETSC-7030-BN	70% ag straw 30% coconut fill; 55gsm/9.3lb jute top and bottom net	18 MO.	2:1 to 1:1 Slopes, Medium Flow Channels	3.B	2.0	NAG SC150BN, WG EXCEL CS-3 All Natural™, AEC Premier Straw/Cocoanut™ FibreNet™, EC ECSC-2B
ETX-1-BN	100% excelsior fill; 55gsm/9.3lb jute top net	12 MO.	3:1 to 2:1 Slopes, Medium Flow Channels	2.C	ND	AEC Curlex1™ FibreNet™
ETX-2-BN	100% excelsior wood fill; 55gsm/9.3lb jute top and bottom net	12 MO.	2:1 to 1:1 Slopes, Medium Flow Channels	2.D	ND	AEC Curlex2™ FibreNet™
ETC-100-BN	100% coconut fill; 55gsm/9.3lb jute top and bottom net	18 MO.	1:1 and Greater Slopes, High Flow Channels	4	2.32	NAG C125BN®, WG Excel CC-4 All Natural™, AEC Premier Coconut™ FibreNet™, EC ECC-2B

PERMANENT TRM EROSION CONTROL BLANKETS

ETPP-8	100% synthetic UV stabilized fill 8oz/yd ² ; 5lb UV stabilized top and bottom net	1:1 and Greater Slopes, Medium to High Flow Channels, Stream Banks, Shorelines	5A,	ND	NAG P300LW®
ETPP-10	100% synthetic UV stabilized fill 10oz/yd ² ; 5lb UV stabilized top and bottom net		5A, 5B, 5C	13.0 (vegetated)	NAG P300LW®, WG PP5-10™, AEC Recyclex® TRM-V, EC ECP-2 10 oz
ETPP-12	100% synthetic UV stabilized fill 12oz/yd ² ; 5lb UV stabilized top and bottom net		5C	ND	NAG P300®, WG Excel PP5-12™, Landlok® 450, EC ECP-2
ETTT-PP	100% synthetic UV stabilized fill; UV stabilized top, middle, and bottom net		3B	2.32	NAG Vmax3 P550, EC ECP-3
ETTT-SC	70% ag straw, 30% coconut fill; UV stabilized top, middle, and bottom net		5A, 5B, 5C, 5D	2.39	NAG Vmax3® SC250®, EC ECSC-3
ETTT-C	100% coconut fill; UV stabilized top, middle, and bottom net		3B	2.4	NAG Vmax3® C350®, EC ECC-3

Slope Installation Guidelines

Suggested Installation Guidelines (to be distributed with Drawings 1-5).

Step 1: Site Preparation

Prepare site to design profile and grade. Remove debris, rocks, clods, etc. Surface should be smooth prior to installation to ensure blanket remains in contact with slope.

Step 2 – Seeding

Follow directions from seed bag or manufacturer.

Step 3 - Staple Selection

Use Staples Consistent with local installation requirements. Product was tested using 6" x 1" crown staples. Options for securing would be: Round-Tops, 6" long x 1" Crown 11 gauge, or Biodegradable staples.

Step 4 - Anchor Trench & Secure Blanket

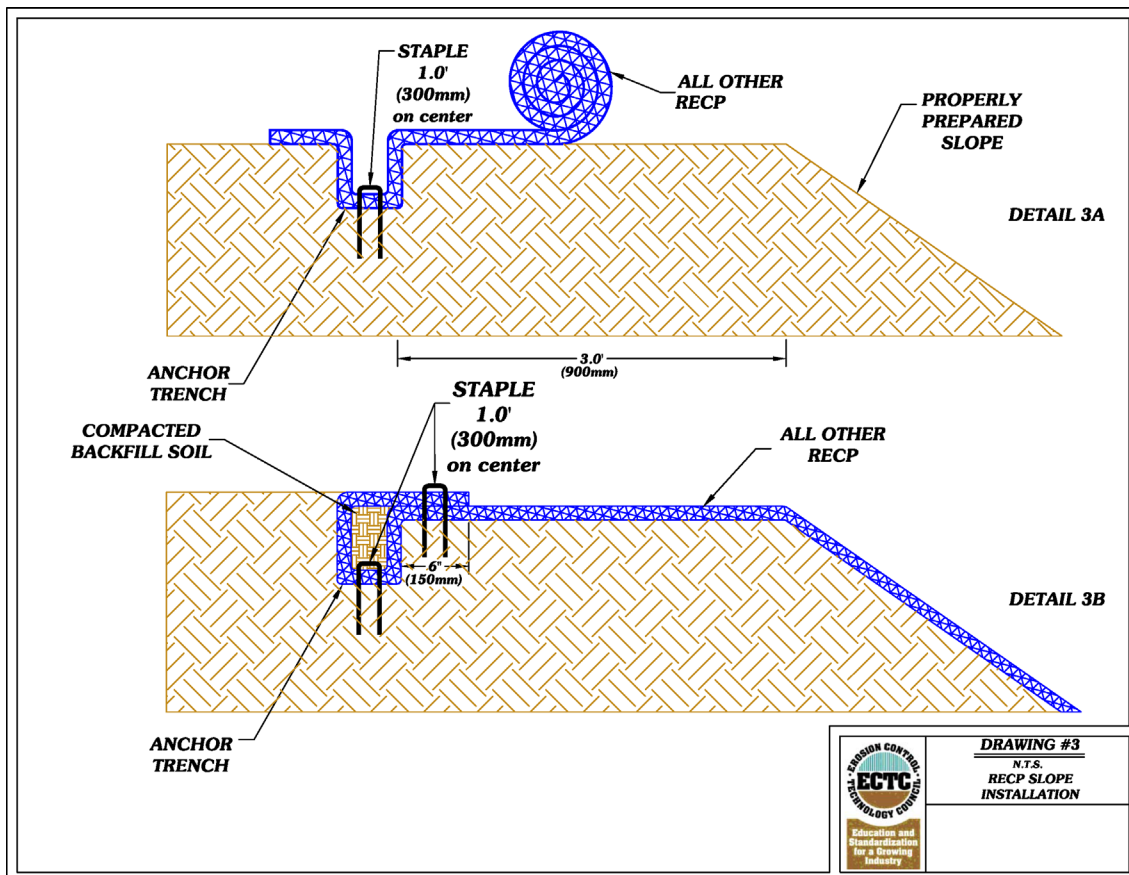
Excavate a trench 5" x 6" on the top edge of slope. Staple blanket along bottom of trench, being sure to leave extra netting to go over trench once filled. Fill trench and compact soil. Fold blanket over trench and secure with staples.

Step 5 - Secure Body of Blanket

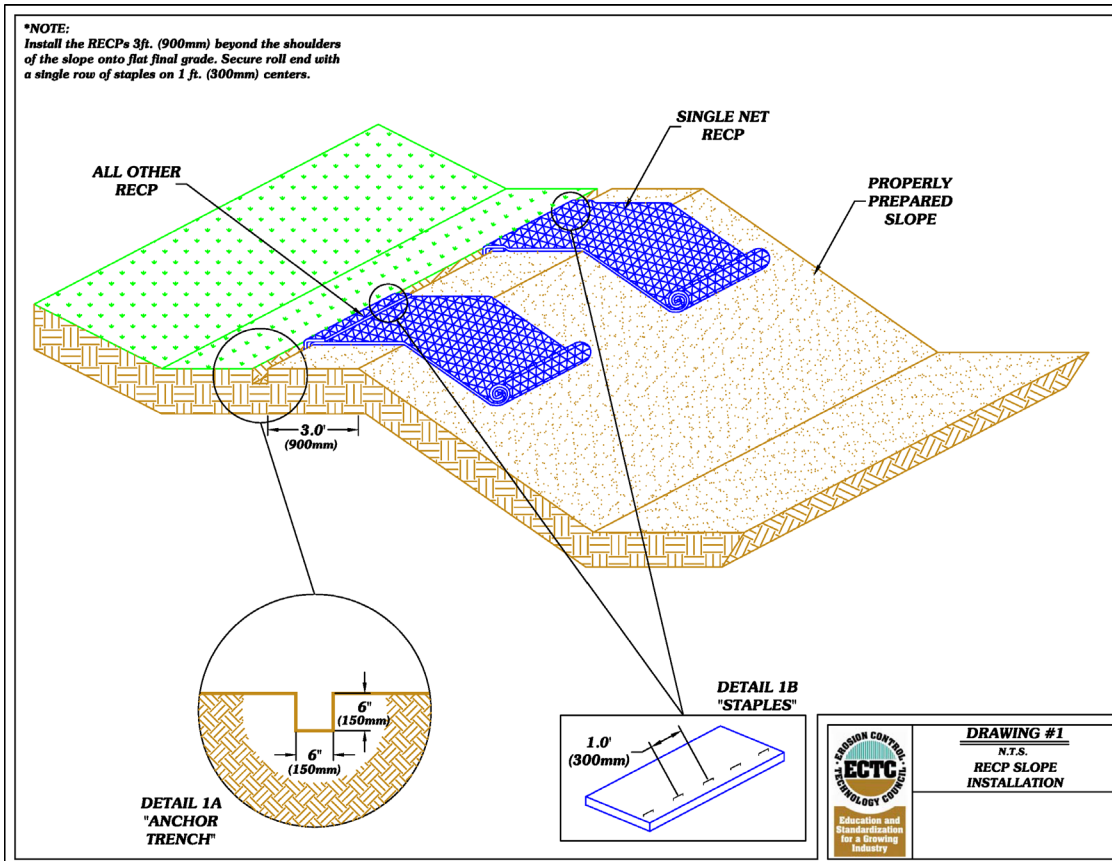
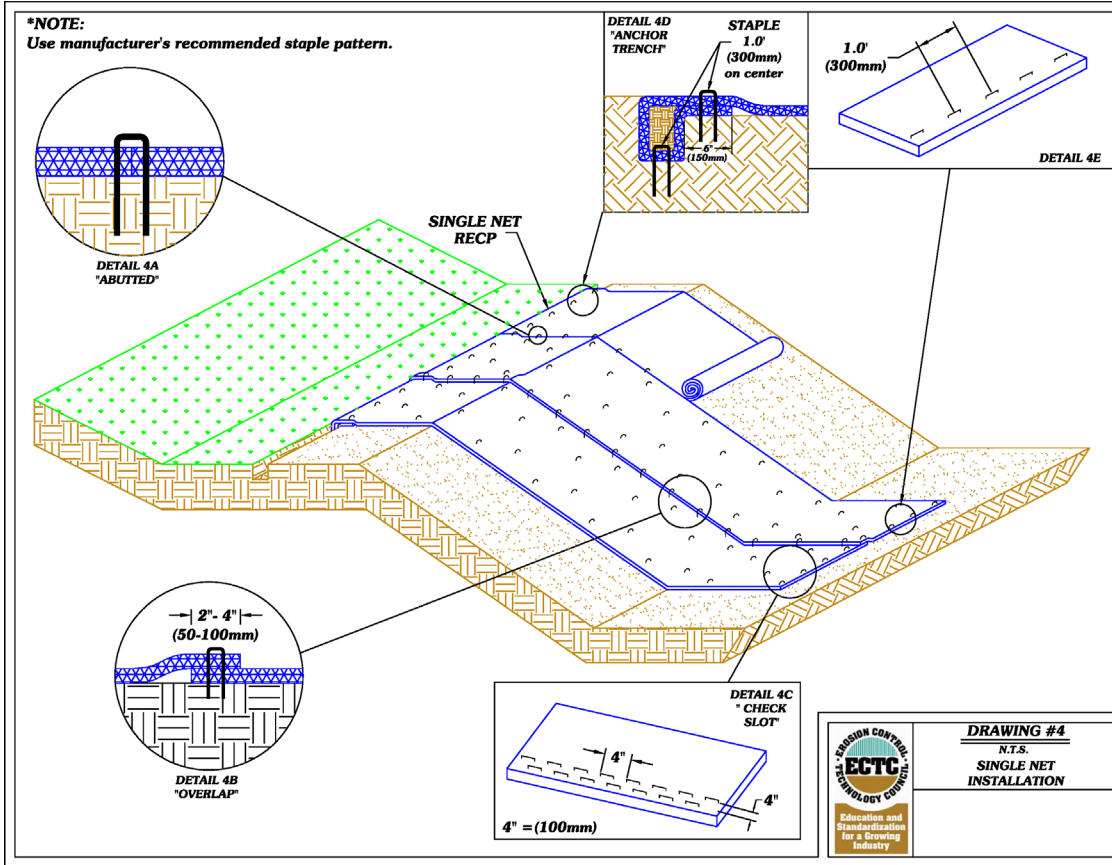
Secure blanket leading and bottom edge every 8" for the entire width of the roll.

Step 6 - Complete Installation

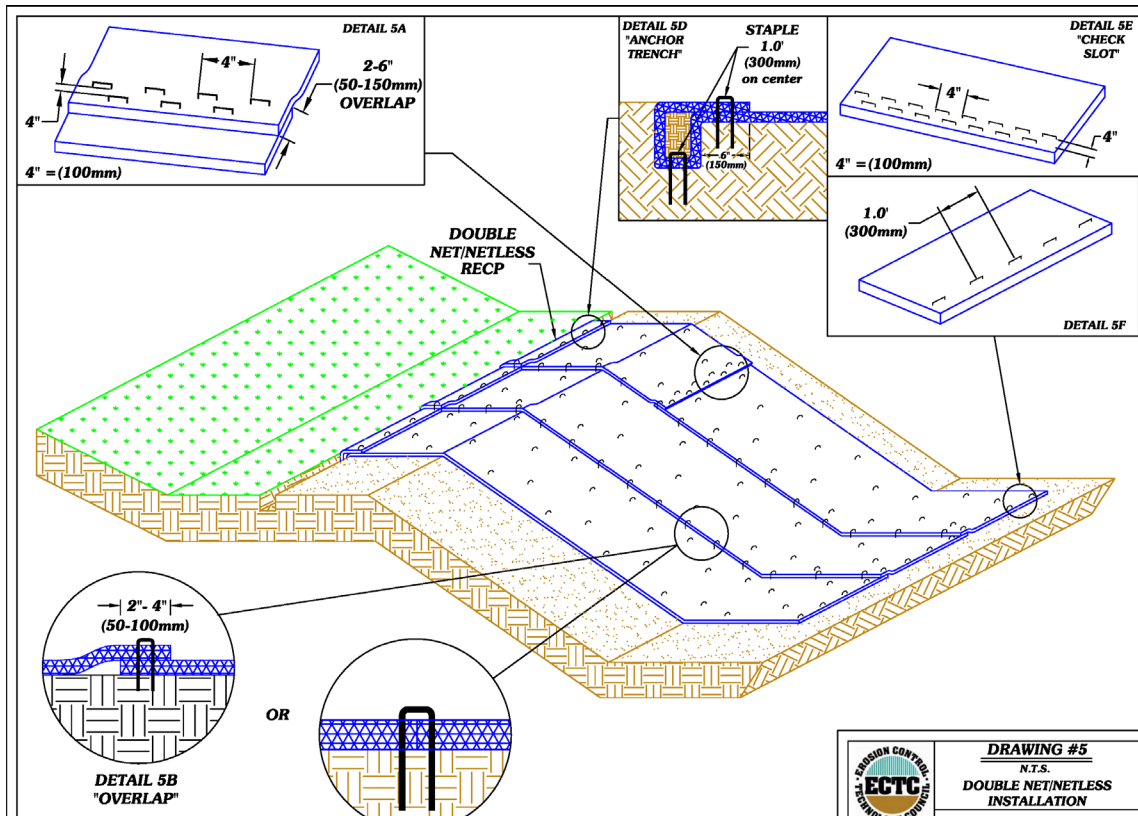
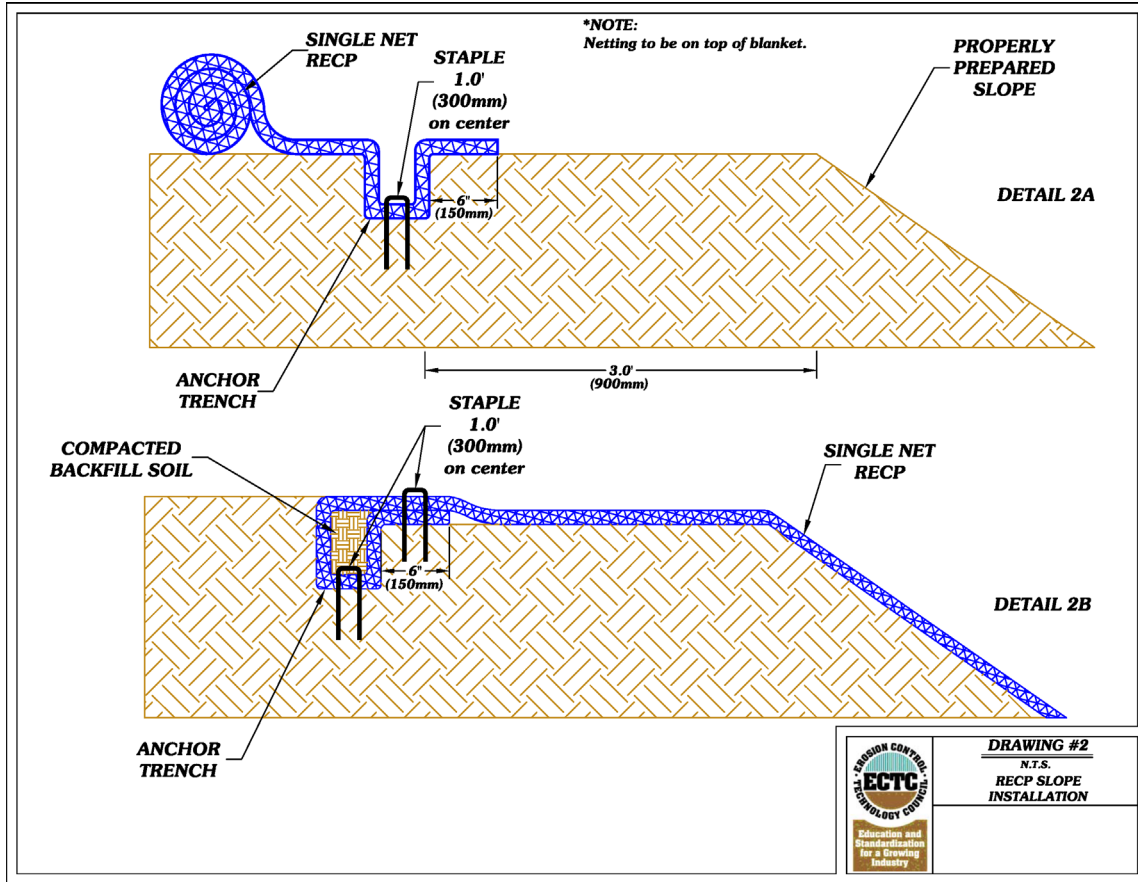
If overlapping rolls along a slope, make sure the upper blanket overlaps the lower blanket by at least 3".



Slope Installation Guidelines



Slope Installation Guidelines



Channel Installation Guidelines for RECP & TRM's

Supplemental instructions to accompany ET Drawings Entitled RECP and TRM Channel Installation, Drawings 6, 6.1, 7, 8.

Step 1: Site Preparation

The first step in installation of RECPs in channels is site preparation. The site should be fine graded to a smooth profile and relatively free from all weeds, clods, stones, roots, sticks, rivulets, gullies, crusting and caking. Fill any voids and make sure the channel is compacted properly.

Step 2: Seeding

Seed the area to be vegetated. Select a seed mix for vegetation adapted to the local geographical area. The seeding types may vary based on the water conditions expected immediately after installation. The types of seeds planted above the anticipated water line may differ from the seed planted below the anticipated water line.

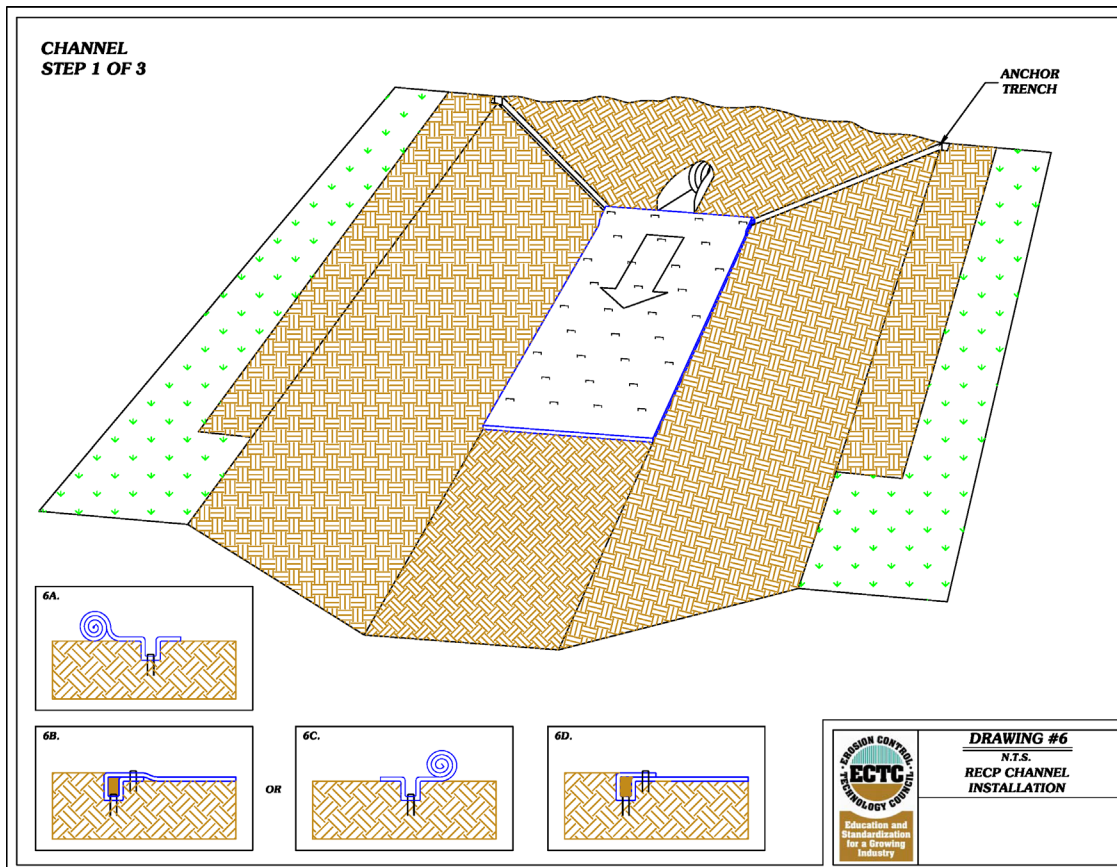
Step 3: RECP Deployment in the Channel Bottom

(Refer to Drawing 6 and 6.1) The RECPs should be unrolled in the direction of water flow. First the RECP is deployed in the channel bottom. It is also necessary to prevent a seam from going down the center of the channel bottom or in areas of concentrated water flow.

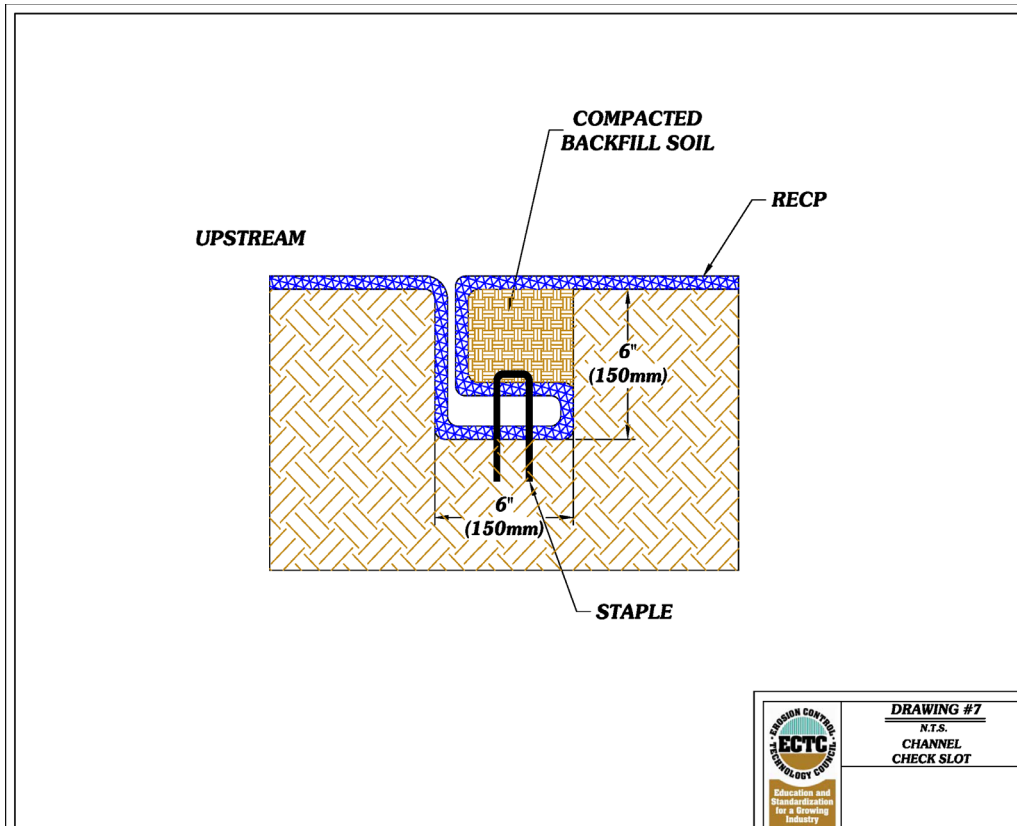
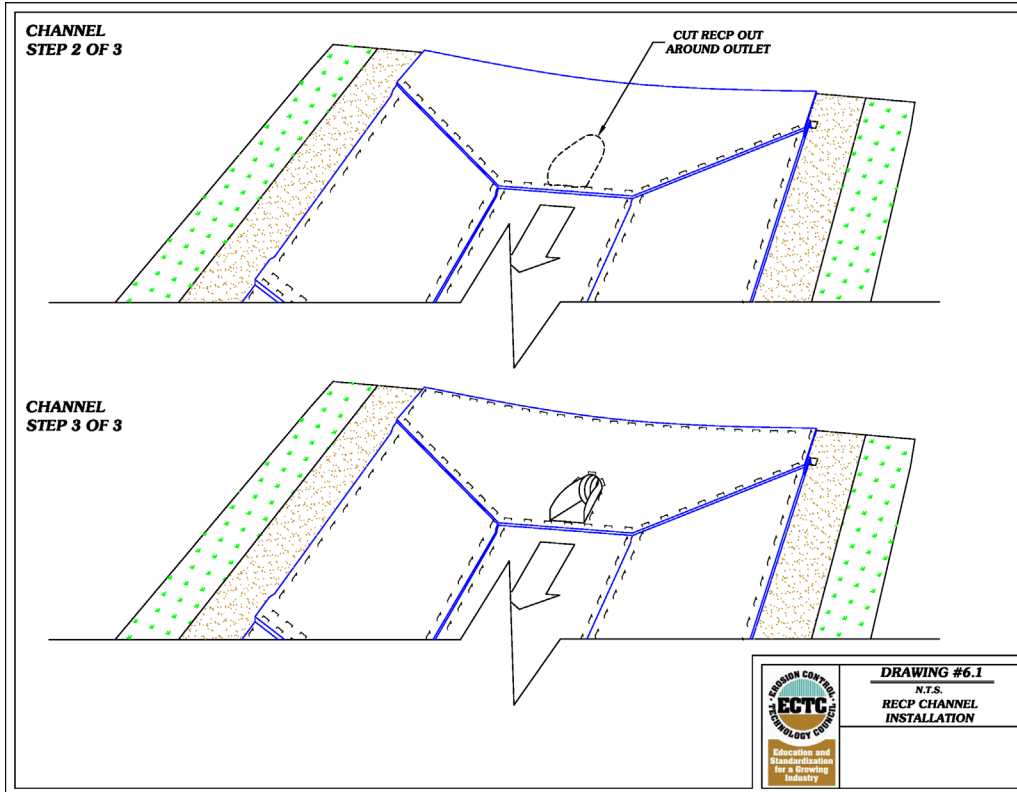
When installing two RECPs side by side in a waterway the center of the RECP should be centered in the area of concentrated water flow. Install adjoining RECP's away from the center of the channel bottom. If the manufacturer recommends overlapping the RECP, the overlap will generally be two to four inches. Continue to install a common row of staples at two-foot minimums along the length of the offset center overlap.

Step 4: Anchor Trench and Secure Blankets

The RECP must be secured at the beginning of the channel. The anchoring method recommended in the Federal Highway Administration's proposed FP-03 Specifications is a six-inch x six-inch check slot is dug perpendicular to the direction of water flow across the entire width of the channel. The RECP is laid in the check slot with 30 inches of the RECP extending upstream of the check slot. Stake or staple the RECP in the check slot on 12-inch centers. Backfill the anchor trench and compact the soil. Place seed over the compacted soil if necessary. Cover the compacted soil with the remaining 12 inches of the terminal end of the RECP. Staple or stake terminal end down slope of the anchor trench on 12-inch centers. (Refer to Drawings 6, 6.1)(See Suggested Staple Pattern for Channel Installation on Page 10)



Channel Installation Guidelines for RECP & TRM's



Channel Installation Guidelines for RECP & TRM's

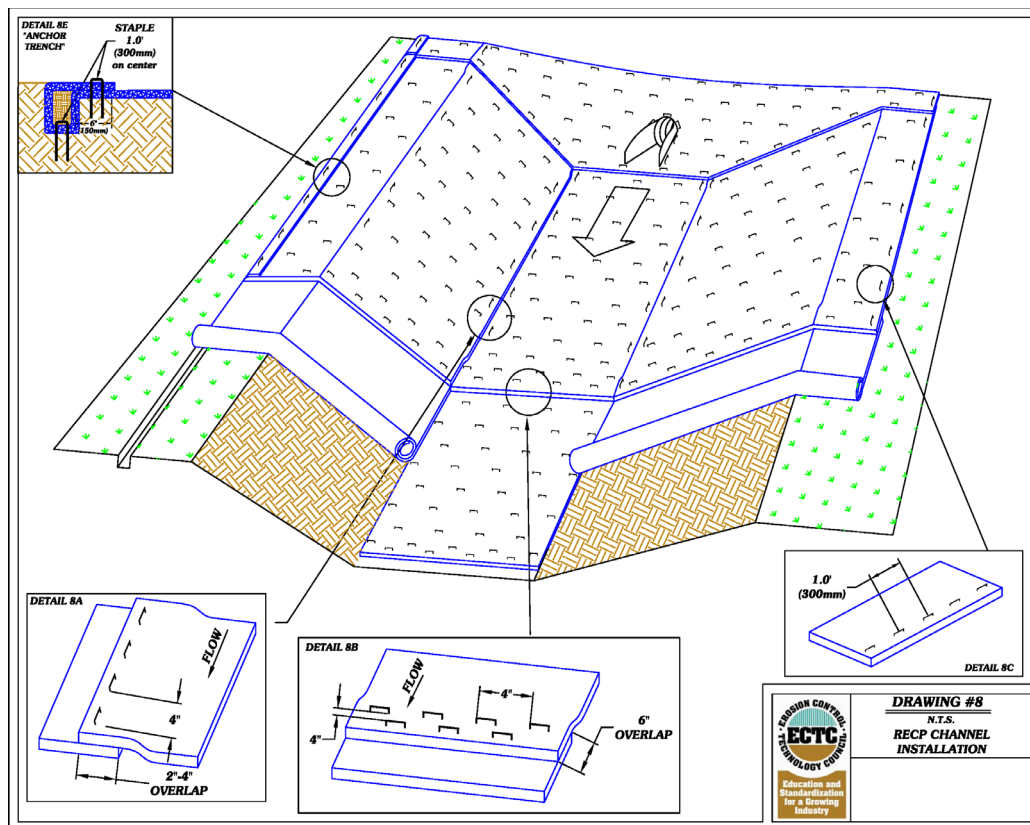
Step 5: Deployment on Side Slopes

Continue to roll the RECP along the channel bottom and side slopes in the direction of the water flow. As the RECP is installed from the channel bottom up the slope a shingle type installation is recommended with the up-slope RECP overlapping the lower RECP approximately two inches to four inches. Anchor the RECPs with a minimum staple pattern of one staple every 24 inches across the width and one staple every 36 inches down its length.

If the RECP needs to be spliced, be sure the RECP is "shingled" with the up-stream RECP overlapping the down-stream RECP. There should be four inches of overlap in a splice. Use a staple check slot to secure the overlap. Anchor the RECP placed at the top of the channel slope in the same manner as described in the slope section. (Refer to Drawing 8)

Step 6: Terminal End

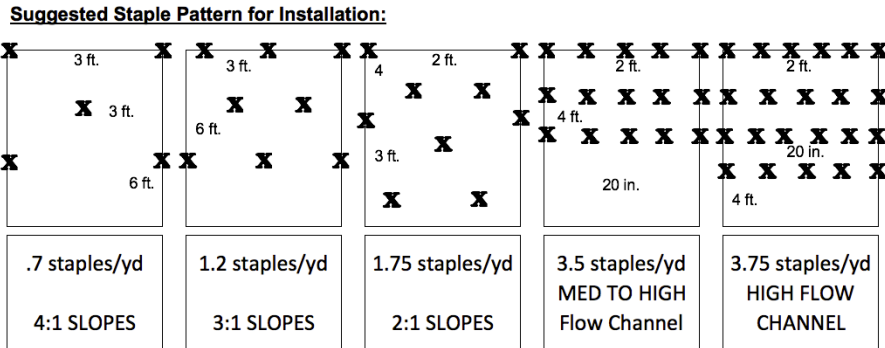
Secure the RECP at the terminal end of the channel with a check slot similar to the one made at the beginning of the channel.



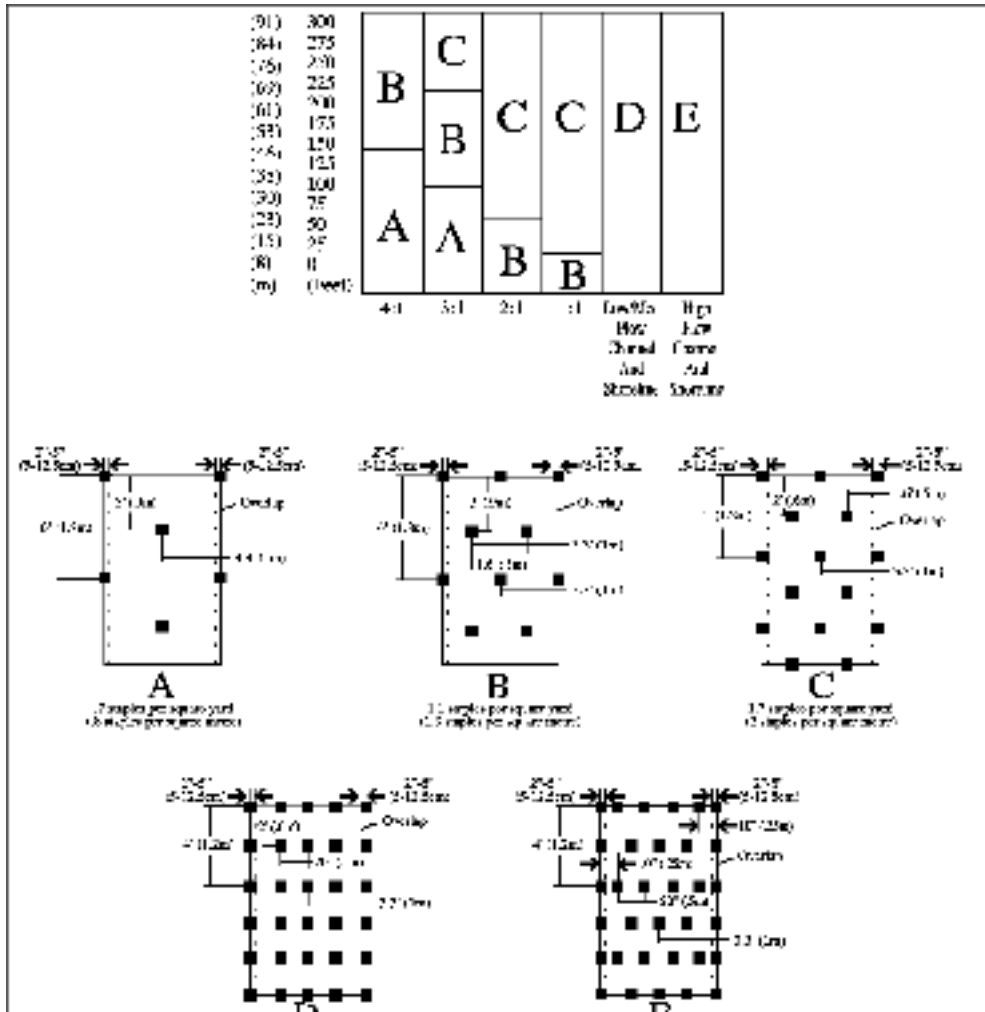
Staple Pattern

1. The choice of staples depends on the compaction of the soil. In general the staples once applied should not easily come out by hand. The standard 6" (150mm) tow sided staple is the norm but in sandier soils an 8"-10" (200mm-250mm double sided staple may be required.
2. In extreme loose soil conditions a 18" (450mm) or longer pin with washers may be necessary to anchor the blanket.

Suggested Staple Pattern for Slope Installation:



Suggested Staple Pattern for Channel Installation:





MKB Stormwater
Innovation

MKB Company

(888) 578-0777

info@mkbcompany.com

mkbcompany.com

Erosion Tech is a National Brand of Erosion Control Blankets,
Turf Reinforcement Matting, and Straw Wattles.