

CASE STUDY



VDOT G95 Dinwiddie



Before Installation



After Installation

ROUTE NUMBER:	600
FHWA NUMBER	STP-5A27(157);RSTP-5A27(155)
PROJECT NUMBER:	(NFO)0600-026268,C501;(NFO)0001-026-107,C501
COUNTY:	Dinwiddie
DISTRICT:	Richmond
DESCRIPTION/NAME:	Intersection Improvements to Rte 600/Rte 226
GENERAL CONTRACTOR:	Branscome Incorporated
SUB CONTRACTOR FOR RIP/RAP REPLACEMENT, SILT FENCE, AND HYDROSEEDING:	RSG Landscaping & Lawn Care Inc.
LOCATION:	At the intersection of Route 1 & Route 226 in Dinwiddie County. It is on the east side of Boyton Plank road located just north of the VDOT office located at 4608 Boyton Plank Road Petersburg, VA. 23804.
RIP/RAP REPLACEMENT:	A total of 7,120 sq/ft of Flexamat was used for this job. The first 2 rolls were 12' wide in order to contain the flow within the Flexamat armored area. After 40 linear feet of 12' wide mat the engineer decided that the flow would be channelized to an 8' wide mat. 800 linear feet of Flexamat was installed to finish out the ditch.
SILT FENCE/PERIMETER CONTROL:	320 feet of 8 inch Filtrexx Siltsoxx
HYDROSEEDING AREA:	1 acre 24 bales of Flexterra and 100 lbs of soilDefender erosion mixture grass seed by ECS to spray and an extra 50lbs of soilDefender grass seed to the 3ft over lap/shingle aspect of the project. So a total of 150lbs of soilDefender seed was used.

NOTES: This is the first VDOT project in the Commonwealth of Virginia to use **Flexamat** in lieu of rip/rap. It took a day and half to grade the area, install the 7,120 s/f of **Flexamat**, install 320 ft of Filtrexx, and hydroseed the finished area.



Original plans for the project required the ditch to be lined with EC-3 Soil Stabilization Mat. VDOT felt that given the gradient, the soil type, and the volume of water being conveyed through the ditch that the EC-3 would fail. VDOT wanted to line the ditch with a non-erodible product so that it would not be as susceptible to future erosion. VDOT did a cost comparison between lining the ditch with Rip Rap and the **Flexamat** and decided to go with the **Flexamat**. This decision to go with **Flexamat** was made because of it being tied together and that vegetation would be able to grow through the mat. This low-impact from the **Flexamat** is what VDOT was hoping to get with the EC-3.

Overall, VDOT has been very pleased with **Flexamat**. It established grass quickly and has handled some extreme rain events *"like a champ!"*



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INSTALLATION PHOTOS:



7-28-16 Before Install



7-28-16 Before Install Hydroseeding



7-28-16 Before Install Hydroseeding



7-28-16 Before Install Laying Filtrexx



7-28-16 Before Install Laying Filtrexx



7-28-16 Install of Flexamat



7-28-16 Install of Flexamat



7-28-16 Install of Flexamat



7-29-16 Finished Install Pre Hydroseeding



7-29-16 Install Day 2 Final with Hydroseeding



7-29-16 Install Day 2 Final with Hydroseeding



7-29-16 Install Day 2 of Flexamat



8-4-16 Six Days after Finished Install



8-4-16 Six Days after Finished Install



8-31-16 Almost Five weeks after Finished Install



8-31-16 Almost Five weeks after Finished Install



8-31-16 Almost Five weeks after Finished Install



4-25-17 Nine Months after Install



4-25-17 Nine Months after Install



5-31-17 Ten Months after Install



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