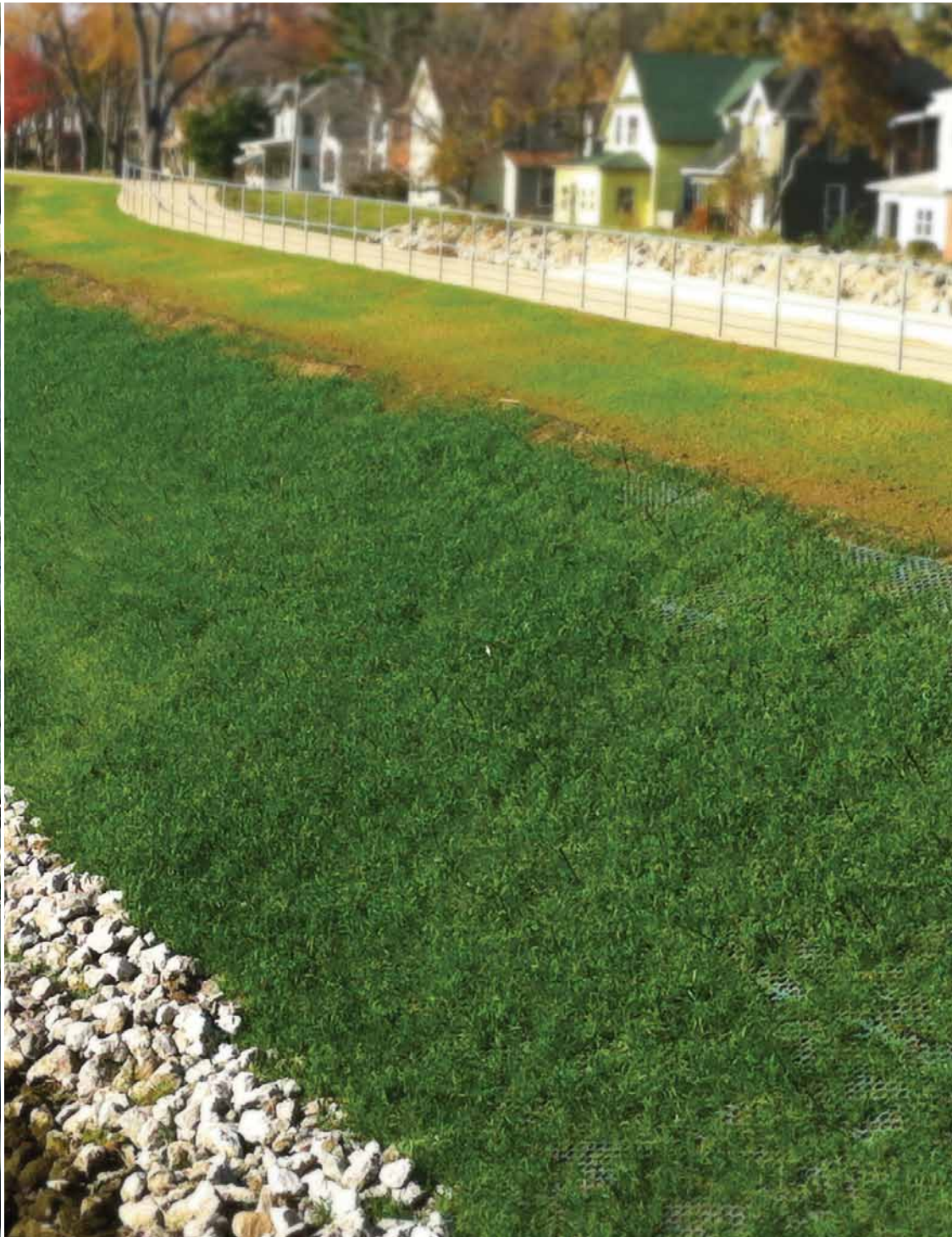
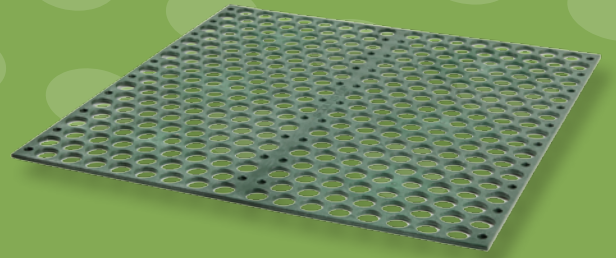


# ScourStop®

THE GREEN SOLUTION TO RIPRAP



PERFORMANCE · AESTHETICS · NPDES-COMPLIANT · COST-EFFECTIVE

scourstop®

HanesGeo.com



where is  
**SCOURSTOP USED?**

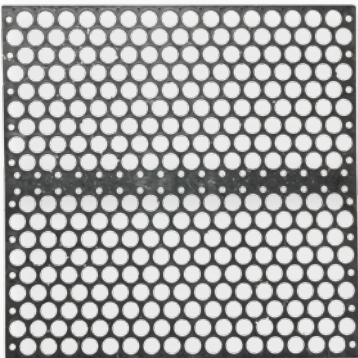
culvert outlets



overflow structures



stream banks &  
toe of slope



**EcoTrans** is the economy version of ScourStop. With similar geometry, EcoTrans has the same performance ratings as ScourStop and uses the same ScourStop earth anchors.

Made entirely with recycled material, EcoTrans transition mats are created with recycled post-consumer and post-industrial plastic.



**ecotrans**<sup>™</sup>

how does

## SCOURSTOP WORK?

ScourStop transition mats are a paradigm shift – an engineered, proven bio-technical alternative to hard armor. ScourStop mats combine the beauty of natural vegetation with modern polymer technology to mechanically protect soil from scour and erosion.

### elements of the transition mat system:

- Mechanical protection
- Reinforced soil covers
- Deep-anchoring soil stabilization

### mechanical protection

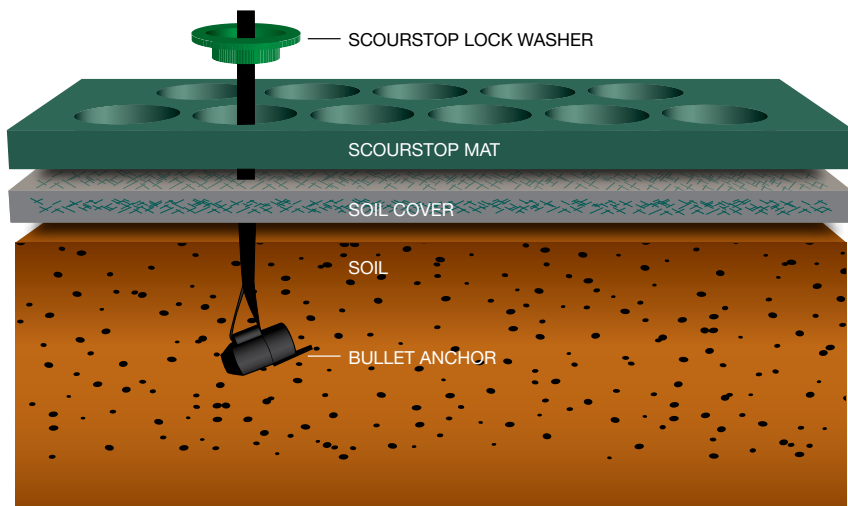
Provides impact resistance, tensile strength, and permanent durability against high-erosive stresses.

### soil covers

Soil is extremely erosive. Some type of best management practice (BMP) cover is required under ScourStop for effective results. Typically, a turf reinforcement mat (TRM), sod, or a combination of both provide maximum protection for every soil type and condition. Geotextiles may be used on non-vegetated projects.

### deep anchoring

To withstand the shear forces of flowing water, transition mats must be anchored deep in the soil. ScourStop's innovative bullet anchors are integral to the mat's resistant strength and also help each mat conform to the native topography.



## ADVANCED ANCHORING SYSTEM

**3 reasons ScourStop** is a cost-effective alternative to hard armor:

1

Facilitates the use of soft armor vegetation solutions in areas typically reserved for hard armor.

2

NPDES minimum rule #5 requires MS4 inspection and maintenance of post-construction BMPs.

ScourStop's vegetated, no-maintenance BMPs lower life-cycle costs.

3

Lightweight and portable, the ScourStop system does not require heavy construction equipment for installation.

## NEW, INNOVATIVE BULLET ANCHORS



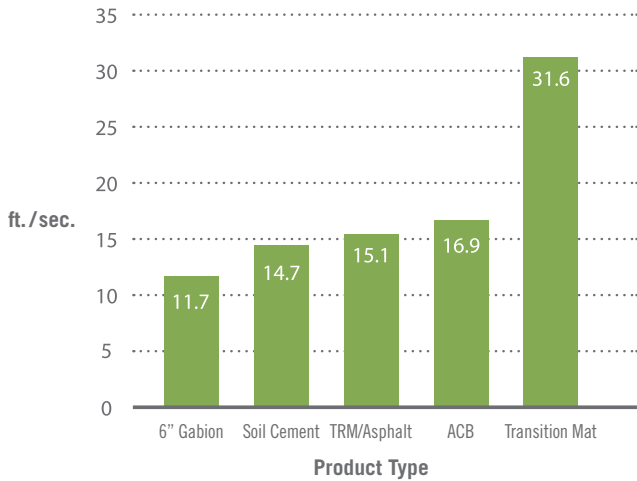
ROTATION AND STRAP TENSION  
LOCKS BULLET ANCHOR INTO SOIL



# EXTREME TESTING, PROVEN RESULTS



Comparison of Test Data with FHWA-RD-88-181



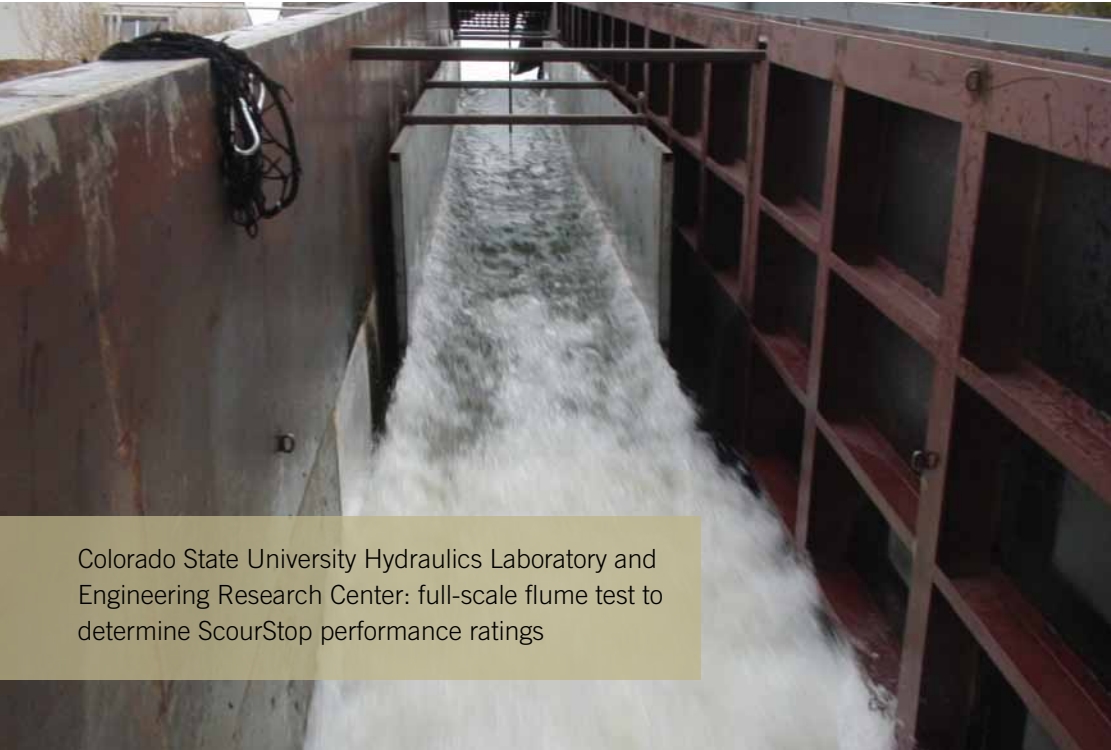
**NO MORE ROCKS**  
REPLACE ROCK RIPRAP

6" Gabion	11.7
Soil Cement	14.7
TRM/Asphalt	15.1
ACB	16.9
Transition Mat	31.6

**FULLY VEGETATED**  
31 feet per second  
16 pounds of shear

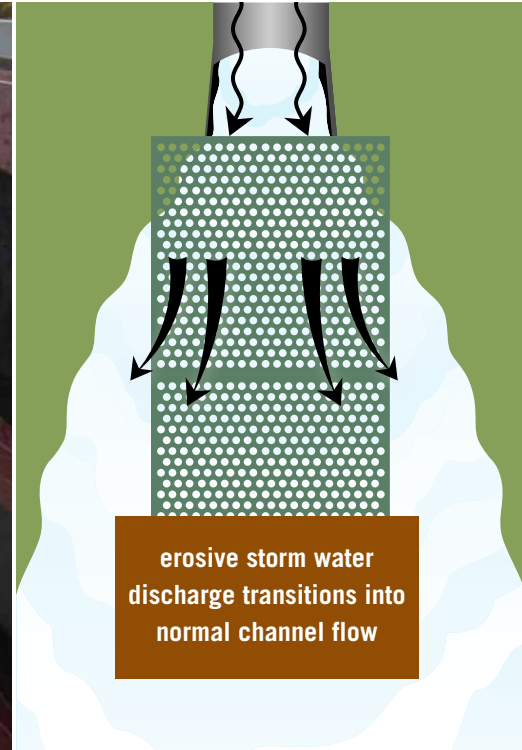
**DAY ONE PERFORMANCE**  
19 feet per second  
13 pounds of shear

*Colorado State University  
Hydraulics Laboratory*



Colorado State University Hydraulics Laboratory and Engineering Research Center: full-scale flume test to determine ScourStop performance ratings

## CULVERT OUTLET



erosive storm water discharge transitions into normal channel flow



A LEADER in the **GEOSYNTHETIC** and **EROSION CONTROL** industries  
Learn more about our products at: [HanesGeo.com](http://HanesGeo.com) | 888.239.4539

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