

# ScourStop Erosion Control Case Study



The Midwest's Most Trusted Site Solutions Provider

Project: Taubman Premium  
Outlet Center Stabilization Project  
Location: Chesterfield, Missouri  
Application/Solution:  
Velocity Reduction & Turf Reinforcement  
Market Sector: Private Commercial

Salesperson: Guy Litteken  
Owner: Taubman  
Engineer: Stock & Associates  
Contractor: Castle Contracting, LLC  
Installed: Summer 2013

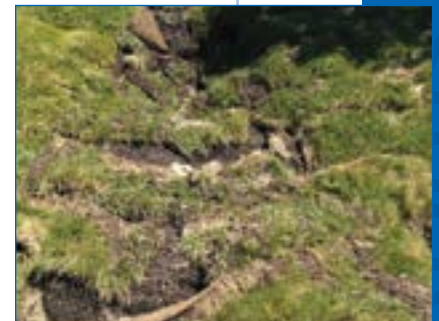
case study



case study

## Challenge

The large paved area required to support a premium outlet center drained into a 1/2 mile long bioretention swale & basin. The swale, at the south edge of the parking lot features a short and steep slope which varied from 2:1 to 1:1 in grade. Making matters most difficult was the large number of curb cuts from which the stormwater runoff would pass through to enter the bioswale. The owner wanted the slope to be a green manicured turfgrass vs. rock option. Original design and construction used Bonar Enkamat 7010 Permanent TRM, filled with composted topsoil and sod. Properly designed and constructed to the highest standards, the slopes failed after a weekend "heavy" rain event. The borrow soils are dredged sand & silts and consolidated, shifted and settled leading to catastrophic failure. ASP met with the project team to search for a solution to satisfy the owner's desire for a green manicured mow strip to border the property.



1 Catastrophic failure.

## Solutions

ScourStop Transition Mats, HDPE 4' x 4' sheets with round perforations were selected. The transition mats are anchored to the slope interface using a "bullet" style percussion anchor. They allow turfgrass to grow through them thus hiding the "protection" and were selected after a field tested mock-up at the building site.



2 Repair failed areas to proposed grade, compact & place permanent TRM.

## Results

The results are staggering. More than 1,000 ScourStop Transition Mats were installed on 300 plus curb cuts. The grass has grown in and covers nearly all of the "protection" leaving it unseen. The reinforced turf provides a beautiful grass filter strip to catch sediment and pollutants before they enter the bioretention swale. Future designs will incorporate the product in similar applications.



3 Anchor ScourStop with Bullet-Shaped Percussion Anchors.



**Products**

Manufacturers included in solutions and product:

Product:  
PP5 Xtreme

Manufacturer:  
Western Excelsior



4 ScourStop can be cut around irregular shapes, such as this lamp-pole base.



5 Fully vegetated ScourStop.



8 Taubman Prestige Outlets.



6 Completed ScourStop installation.



7 Fully vegetated ScourStop.

**Company Information**

ASP Enterprises, Inc. and Quick Supply Co. For more than three decades, A.S.P. Enterprises and Quick Supply Co. has served the erosion control industry with integrity and expertise. We provide engineers and landscape contractors the exceptional value for their money and have grown to become the Midwest's full-line distributor of erosion-control, geosynthetics, storm water management products, wall block, landscape pavers, and drainage products.

ASP Enterprises, Inc.  
Corporate  
Headquarters  
www.aspent.com  
info@aspent.com

St. Louis, MO  
636.343.4357  
800.869.9600

Quick Supply Co.  
Corporate  
Headquarters  
www.quicksupplydm.com  
info@quicksupplydm.com

Des Moines, IA  
515.289.1271  
800.362.2245

Kansas City, MO  
816.554.1191  
800.519.2304

Omaha, NE  
402.8618579  
877.678.8027

Wichita, KS  
316.393.1554