

Greenwood Hills Creek Stabilization Case Study



The Midwest's Most Trusted Site Solutions Provider

Project: Greenwood Hills

Creek Restoration

Location: Johnston, Iowa

Application/Solution:

Steep slope stabilization using Geoweb

Market Sector: Municipal

Salesperson: Steve Krehbiel

Owner: City of Johnston, Iowa

Engineer: Nilles and Associates

Contractor: Corell Contractor Inc.

Installed: November 3, 2014

case study



case study

Challenge

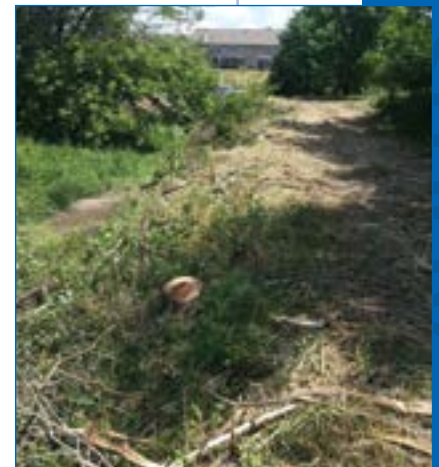
The City of Johnston had developed residential housing through a greenbelt area, and over the past 20 years, no improvements had been made to the stream or stream bank itself. Trees and vegetation had become overgrown and the badly eroded banks needed severe attention.

Solutions

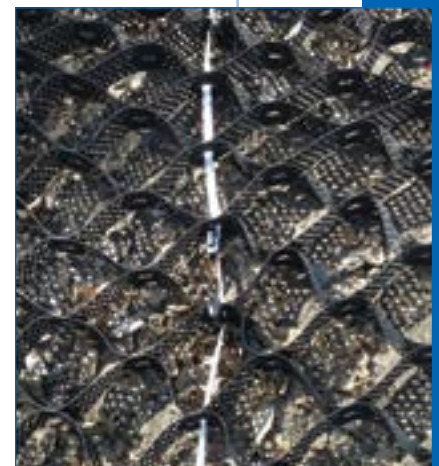
The Presto Geoweb cellular confinement system was selected and designed to help stabilize the steeper slopes along the creek after grubbing and clearing of the overgrown trees had been completed. The geocell product was installed with Kevlar tendons for additional load transfer and infilled with an amended soil. Flexterra HP-FGM was used to protect the infill from erosion.

Results

Approximately 21,000 sf of stream bank was permanently stabilized with the geocell product, along with native grasses and plugs incorporated into the landscape. This will help preserve the value of the highly profiled residential homes and protect back yards throughout the neighborhood from f



1 A portion of the stream and stream bank throughout the Greenbelt.



2 Note the support tendons distributing the load evenly through the section.



Greenswood Hills Creek Restoration Case Study continued



Products

Manufacturers included in solutions and product:

Product:

3" 20 V Geoweb

Manufacturer:

Presto Geosystems

www.prestogeo.com

Product:

Flexterra High Performance Flexible Growth Medium

Manufacturer:

Profile Products



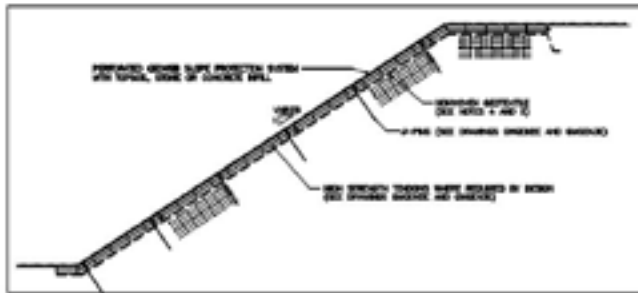
3 Note the support tendons distributing the load evenly through the section.



4 Amended soils introduced in the cells.



CROSS SECTION OF A TYPICAL GEOWEB® SLOPE PROTECTION SYSTEM



CROSS SECTION OF A TYPICAL GEOWEB® SLOPE PROTECTION SYSTEM



5 Flexterra mulch and seeded.

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