

Interurban Bridge Retaining Structure Case Study



The Midwest's Most Trusted Site Solutions Provider

Project: Interurban Bridge & Trail Bank Stabilization

Location: NW Vivion Rd. & St. Joe Blvd., Riverside, Missouri

Application/Solution: Gabion, Geoweb & "Burrito Wrapped" Reinforced Walls and Slopes

Market Sector: Municipal

Salesperson: John Warren

Owner: City of Riverside, MO

Engineer: HDR Engineering, Lee's Summit, MO

Contractor: Cobra Contractors, Overland Park, KS

Installed: Spring 2013

case study



case study

Challenge

Repair and replace a busy fitness trail while protecting an historic bridge and a KCMO Sanitary Sewer Line. The area has highly erodible Loess laden soils and the channel handles intense urban runoff during storm events.



1 Pre construction photo showing the abutment erosion and the loss of the trail.

Solutions

A combination of 3 reinforced wall systems, Gabions, a Geoweb Cellular Confinement System and a Geogrid reinforced coir mat "burrito wall" with live stake plantings.



2 Geoweb wall construction on top of the Gabion Base.

Results

The contractor was able to change the access point into the project which sped up the process and allowed a greatly reduced trail closure time. The biggest issue was that they could not find the rock bottom to the creek that was supposed to be there, additional gabions took care of that issue and the Geoweb wall went up quickly. The "burrito wall" was also quickly completed in time to install the live stakes and benefit from the Spring rains.



3 Geoweb wall supporting track hoe during infill.



Interurban Bridge Retaining Structure Case Study continued



Products

Manufacturers included in solutions and product:

Product: PVC Coated Gabions

Manufacturer: Terra Aqua Gabions

Product: Geoweb Cellular Confinement system

Manufacturer: Presto Products

Product: Miragrid 3XT & 5XT, 160N Geotextile

Manufacturer: Mirafi

Product: Woven Coir Fiber Matting

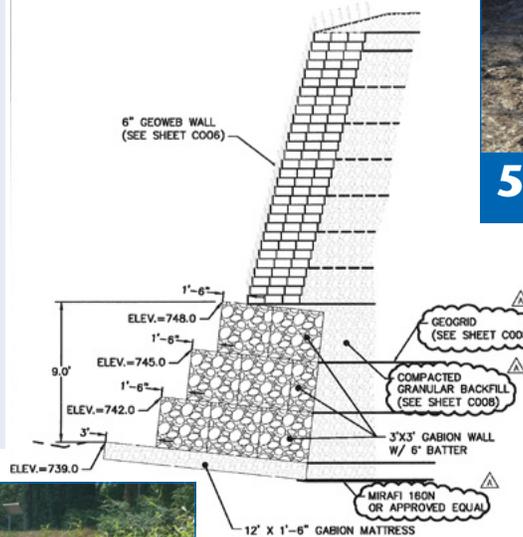
Manufacturer: Western Excelsior



4 Completed Wall before Spring.



5 Completed project before vegetation growth.



Cross Section showing Fascia and on Gabions.



7 Mid-Summer photo showing vegetation growth.



6 "Burrito Wall" during construction.

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.

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