

GEOWEB®

Retaining Walls

Repair Eroded Channel Embankment

PROJECT ENGINEER:

HDR Engineering
Lee's Summit, MO

CONTRACTOR:

Cobra Contractors
Overland Park, KS

MATERIAL SUPPLIER:

ASP Enterprises
Kansas City, MO



THE SOLUTION

A GEOWEB® Retaining Wall, gabions and a geogrid reinforced coir mat system immediately after installation and with full vegetation.

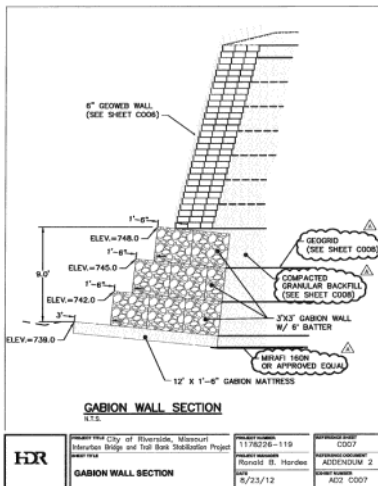
LOCATION: Riverside, Missouri

REPAIR OF ERODED HISTORIC BRIDGE EMBANKMENT

A popular and busy fitness trail along a stormwater channel was closed as a result of severe erosion. Intense urban runoff and highly erodible loess laden soils lining the banks combined to create the problem that intensified at the bridge abutment.

PROBLEM SOLVED WITH REINFORCED WALL SYSTEMS

HDR Engineering, working with local geosynthetic supplier ASP Enterprises and Presto Geosystems, designed a solution consisting of three reinforced wall systems including gabions for toe protection, a GEOWEB reinforced wall, and a geogrid reinforced coir mat "burrito wall" with live stake plantings. During construction, the creek's rock bottom could not be found. The contractor, Cobra Contractors, solved the problem by placing additional gabions at the base. Both the GEOWEB and geogrid "burrito wall" systems were quickly completed in time to install vegetation and live stake plantings to fully benefit from Spring rains. The fitness trail was reopened and the public way was restored.



HDR Engineering Wall Design.

Presto Geosystems supported the design with their FREE project evaluation service.

Get a FREE Project Evaluation



GEO SYSTEMS



Abutment preconstruction showing erosion and loss of the trail.



Completed GEOWEB wall section installed above a gabion base.

PRESTO GEOSYSTEMS® Appleton, Wisconsin USA

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