

PaveDrain Columbia Stormwater Case Study



The Midwest's Most Trusted
Site Solutions Provider

Project: Columbia 319 Grant:
Porous Pavers

Location: Columbia, Missouri

Application/Solution:

Convert an old detention basin into parking spaces with underground detention and porous pavement

Market Sector: Stormwater

Salesperson: Todd Noble

Owner: City of Columbia MO

Engineer: Erin Keys

Contractor: Seth Paul Excavating

Installed: May 2014

case study

Challenge

The City of Columbia MO needed to expand their parking area in one of their city facilities. Completely land-locked, their best option was to extend parking space from the current lot by using the area from an adjacent detention basin. They also wanted to improve the level of actual detention achieved and the release rate.



1 Existing detention pond next to parking lot is cleared of vegetation and dewatered.

Solutions

Atlantis Raintank Triples were created and configured as an underground detention area. PaveDrain permeable articulated concrete block mats were used to allow infiltration of stormwater from the parking lot surface to the underground detention system.



2 After a rock base has been compacted the first Atlantis tanks are placed on a filter fabric.

Results

The city was able to add an additional 6300 sf of parking space and detain 14,000 cf of stormwater runoff from the site.



3 After 1075 Atlantis tanks are placed the filter fabric is wrapped securely around the tanks like a gift wrap.

case study

Products

Manufacturers included in solutions and product:

Product:

PaveDrain

Manufacturer:

PaveDrain

Product:

Atlantis Triple Rain Tanks

Manufacturer:

Atlantis

Product:

BXG-110

Manufacturer:

Tencate Mirafi



4 Clean rock is used for backfill over the tanks. This rock will be used for filtering the water and provides additional storage.



5 PaveDrain arrives on site cabled into large mats.



7 The finished system provides infiltration, storage, detention, conveyance and a paving surface all in one.



6 An excavator uses PaveDrain's spreader bar to easily lift and place large sections of block onto a compacted rock base.

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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