

SHOPPES AT FASHION SQUARE

ORLANDO, FL

INITIAL CONCERN

The client contacted us for assistance in finding a solution for an abandoned site within the Shoppes at Fashion Square that needed to be brought up to stormwater code before being developed. The parking area was experiencing ponding, and poor drainage created a high water table in the area.

Goal

The client desired a cost-effective system that met code requirements and increased water treatment volume.

Installation/Solution

After careful consideration, PaveDrain, a permeable paving system, was chosen for the project because other system options would require additional excavation of bad soils and the parking surface would have to be elevated by 2 ft.

Each block covers 144 sq. inches and weighs 50 lbs. Underneath the PaveDrain, aggregate and ACF BX II were installed to increase stability and aid in drainage. This project was the first time in Florida's history that machine technology was used to place the blocks. This meant that the project could be finished in half the time of a hand-placed installation. Overall, the project took only 10 days to complete. Five large areas totaling 60,000 SF of PaveDrain were installed to the area, providing 80% pollutant removal efficiency and 30% TSS and Phosphorus load reduction rates.



Prior to installation



Post-installation

RESULTS

PaveDrain permeable paving system successfully brought the site up to stormwater code and saved the client almost one million dollars. The new stormwater system has been permitted through Saint John River Water Management District, City of Orlando, and Florida Department of Transportation. It has also kept 39,859 cubic-ft of stormwater out of nearby storm drains.

SHOPPES AT FASHION SQUARE

ORLANDO, FL

ADDITIONAL DETAILS AND PHOTOS

The below photos represent some of the additional details of the PaveDrain installation.

