

Perforated pipe key in park drainage project

PROBLEM:

A creek running through Cleveland Avenue Park was overflowing on a regular basis, leaving unwanted ponds in the grassy areas as clay beneath the shallow topsoil would not allow stormwater to percolate back down into the ground.

THE CORRUGATED POLYETHYLENE PIPE SOLUTION:

Atlanta Parks & Recreation solved the problem by using 4" and 6" perforated polyethylene pipe to improve the hydraulic performance of a series of French drains running through the park and alongside a ball field. • The Artis Group, Decatur, Ga., installed 1,000 linear feet of perforated pipe down the center of the drains to speed water flow. The smooth interior of the pipe provided greater hydraulic efficiency than ditches alone.

INSTALLATION DETAILS:

Azimi covered the pipe with a filter fabric, gravel, native soil, and finally, sod. "The swales are (draining) much better now," Azimi said. □ He finished the job by installing a polyethylene pipe drainage system beneath a playground area that featured a 12" deep sand surface over the native clay soil, and improving the nearby sewer lines. "The drain helped us provide a dry play area one hour after it rained," he said.

Project: Stormwater Drainage System

Location; Cleveland Avenue Park, Atlanta, GA

Engineer: M. Nasim Azimi, C.E. City of Atlanta Parks & Recreation

Contractor: The Artis Group, Decatur, GA

Timing: Fall 1997

"Corrugated polyethylene pipe is good to work with in any application for its strength and easy handling."

M. Nasim Azimi, Civil Engineer, Atlanta Parks & Recreation