



Green Infrastructure & Stormwater Management CASE STUDY

Zonolite/ Nickel Bottom Park

Location: Atlanta, GA

Client: A Partnership of the South Fork Conservancy, DeKalb County, Zonolite Neighbors and Coalition

Design Firm(s): Sylvatica Studio: Landscape Architecture

Landscape architect/Project contact: Susan Stainback, ASLA

Email: susan@sylvaticastudio.com

ASLA Chapter: Georgia



Project Specifications

Project Description: A brownfield site undergoing EPA remediation will be converted to public parkland. In order to accommodate a community garden and trail system for public use on the popular South Fork Peachtree Creek- side within the City of Atlanta, the fragmented natural floodplain ecosystem will be connected and further naturalized. Stormwater bioretention areas will be constructed, and naturalized man-made flowways further naturalized and enlarged to accommodate a large volume of storm water from surrounding buildings, paving and residential watershed. The EPA grading work will work in concert with the Master Plan to accomplish this work.

Project Type:

Open Space-Park

Part of a redevelopment project

Design features: Bioretention facility, rain garden, bioswale, porous pavers, curb cuts, and boulders used to slow flow.

This project was designed to meet the following specific requirements or mandates:

DeKalb County, Georgia and neighborhood goals

Impervious area managed: greater than 5 acres

Amount of existing green space/open space conserved or preserved for managing stormwater on site: 5,000 sq/ft to 1 acre

The regulatory environment and regulator was supportive of the project.

Did the client request that other factors be considered, such as energy savings, usable green space, or property value enhancements? Yes. The client requested usable green space, community garden watering, water quality, and flood control.

Cost & Jobs Analysis

Estimated Cost of Stormwater Project: \$50,000-\$100,000 (Public funding: Federal, local, EPA -WR Grace, DeKalb Co)

Was a green vs. grey cost analysis performed? No

Cost impact of conserving green/open space to the overall costs of the site design/development project: No increase

Cost impact of conserving green/open space for stormwater management over traditional site design/site development approaches (grey infrastructure)? Slightly increased; Widening flowways and plantings.

Number of jobs created: Not available

Job hours devoted to project:

Planning and Design: 100

Construction: Not available

Annual Maintenance: Not available

Additional Information

Links to images: South Fork Conservancy website <http://www.southforkconservancy.org/>