Green Infrastructure & Stormwater Management CASE STUDY

Riverdale Glen

Location: Pasadena, MD
Client: Frankie Wilson & Sons
Design Firm(s): Brenton Landscape Architecture; Fisher Collins & Carter Engineers
Landscape architect/Project contact: Charles Brenton, ASLA
Email: charles@brentonla.com
ASLA Chapter: Pennsylvania/Delaware

Project Specifications

Project Description: On-site infiltration beds provided on each lot to manage roofs and driveways. On-site management was feasible because of the small amount of new impervious. This infill project required no new road construction.

Project Type:
Single family residential
Part of a new development

Design features: Infiltration basins.

This project was designed to meet the following specific requirements or mandates:
State statute, county ordinance, local ordinance

Impervious area managed: 5,000 sq/ft to 1 acre

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? No.

Cost & Jobs Analysis

Estimated Cost of Stormwater Project: $10,000-$50,000 (Public funding: Not available)

Was a green vs. grey cost analysis performed? No

Cost impact of conserving green/open space for stormwater management over traditional site design/site development approaches (grey infrastructure)? Significantly reduced costs (10% or greater savings).

Number of jobs created: Not available

Job hours devoted to project: Not available

Planning and Design: Not available
Construction: Not available
Annual Maintenance: Not available

Performance Measures

Stormwater reduction performance analysis:
2-year

Community & economic benefits that have resulted from the project: Preservation of steep slopes and woodland in the Chesapeake Bay Critical Area.