



Green Infrastructure & Stormwater Management CASE STUDY

LID Pilot Project at University of Maryland

Location: University of Maryland, College Park, MD

Client: Prince Georges County and EPA

Design Firm(s): University of Maryland

Landscape architect/Project contact: Phillip Cho, ASLA

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ASLA Chapter: Potomac

Project Specifications

Project Description: Design and installation of bioretention facilities and water channel device to accommodate data collecting equipments within existing parking areas.

Project Type:

Institutional/education

A retrofit of an existing property

Design features: Bioretention facility, rain garden, bioswale, and curb cuts.

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

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? No.

Cost & Jobs Analysis

Estimated Cost of Stormwater Project: \$100,000-\$500,000 (Public funding: Federal)

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: Not applicable

Cost impact of conserving green/open space for stormwater management over traditional site design/site development approaches (grey infrastructure)? Did not influence costs. Retrofit project.

Number of jobs created: Not available

Job hours devoted to project:

Planning and Design: 640 hrs

Construction: 3 months

Annual Maintenance: Not available

Performance Measures

Stormwater reduction performance analysis:

50%

Community & economic benefits that have resulted from the project: Not applicable

Project Recognition

Additional Information

Links to images: <http://www.arboretum.umd.edu/discover/maps/Rain%20garden%20map.pdf>

<http://www.stormh2o.com/october-2007/maryland-impact-development-2.aspx>

<http://www.eqri.com/bioretenion.asp>