



Green Infrastructure & Stormwater Management CASE STUDY

Lindenhurst Memorial Library Eco-Parking Lot

Location: Lindenhurst, NY

Client: Lindenhurst Memorial Library

Design Firm(s): Retnauer Design Associates

Landscape architect/Project contact: Robert S. Retnauer, RLA, ASLA

Email: bob@retnauer-design.com

ASLA Chapter: New York



Photo: Retnauer Design Associates

Project Specifications

Project Description: Development of a new sustainably-designed 20-car parking lot for a public library. Elements included permeable paver parking surface; bioswale; native planting; solar LED parking lot lighting; and use of recycled materials for border fence.

Project Type:

Institutional/education
Part of a new development

Design features: Bioswale and porous pavers.

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

Local ordinance

Impervious area managed: less than 5,000 sq/ft

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

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? Not applicable.

Cost & Jobs Analysis

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

Was a green vs. grey cost analysis performed? Yes, sustainable design was more expensive.

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.

Number of jobs created: 6

Job hours devoted to project:

Planning and Design: 120
Construction: 350
Annual Maintenance: 10

Performance Measures

Stormwater reduction performance analysis:

100% of stormwater retained on site.

Community & economic benefits that have resulted from the project: Created an educational/iconic example of sustainable design that has become well known within the community.

Project Recognition

Local press and media

Additional Information

Links to images: http://www.retnauer-design.com/images/LindenhurstLib_10-12-09_.pdf
<http://www.retnauer-design.com/images/LindenhurstLib-Newsday.pdf>