



Green Infrastructure & Stormwater Management CASE STUDY

SE Ankeny Green Street

Location: Portland, OR

Client: City of Portland, Environmental Services

Design Firm(s): City of Portland, Environmental Services

Landscape architect/Project contact: Kevin Robert Perry, ASLA

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ASLA Chapter: Oregon

Project Specifications

Project Description: Completed in 2004, this demonstration project retrofitted a residential street with two stormwater curb extensions to respond to the neighborhood's chronic problem with local basement sewer backups. These two stormwater curb extensions capture runoff from 7,300 sq/ft of paved surface. They treat and infiltrate most of the runoff they receive, providing volume and flow control and water quality benefits. By managing runoff onsite, the project decreases the amount of stormwater that enters the city's combined sewer system and helps protect residents from sewer backups.

Project Type:

Transportation corridor/streetscape

A retrofit of an existing property

Design features: Stormwater curb extensions.

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

None.

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: 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? No

Cost & Jobs Analysis

Estimated Cost of Stormwater Project: \$10,000-\$50,000 (Public funding: Local)

Was a green vs. grey cost analysis performed? Yes, the green solution was more cost effective than upsizing the existing pipe system and provided ancillary neighborhood benefits such as traffic calming and overall neighborhood greening.

Cost impact of conserving green/open space for stormwater management over traditional site design/site development approaches (grey infrastructure)? Slightly reduced costs (1-9% 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:

Detailed data for this project can be found at:

<http://www.portlandonline.com/bes/index.cfm?c=45386&a=167583>

Community & economic benefits that have resulted from the project: Traffic calming and overall neighborhood greening. The project is near a school site, so the traffic calming benefit is substantial.

Additional Information

Links to images: Pictures can be available by contacting Kevin Robert Perry at 503-239-0600 or email at kevin@nevuengan.com