



Green Infrastructure & Stormwater Management CASE STUDY

Lizard Butte Library

Location: Marsing, ID

Client: Design West Architects

Design Firm(s): Breckon Land Design, Inc.

Landscape architect/Project contact: Jon Breckon, ASLA

Email: jbreckon@breckonld.com

ASLA Chapter: Idaho/Montana

Project Specifications

Project Description: The landscape architect designed all site and adjacent street improvements including stormwater facilities, vertical & horizontal control, and erosion and sediment control plans.

Project Type:

Institutional/education

Part of a new development

Design features: Bioswale.

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

State statute, county ordinance, local ordinance, developer/client preference

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

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: None)

Was a green vs. grey cost analysis performed? No, grey was not an option.

Cost impact of conserving green/open space to the overall costs of the site design/development project: It did not.

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). In Idaho, it is more cost effective to utilize swales on site in lieu of underground containment areas.

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:

100% of 100-year storm

Additional Information

Links to images: contact Jon Breckon