Green Infrastructure & Stormwater Management
CASE STUDY

Amity Elementary School

**Location:** Boise, ID  
**Client:** Boise School District  
**Design Firm(s):** The Land Group, Inc.  
**Landscape architect/Project contact:**  
Greg Baer, ASLA, RLA  
**Email:** greg@thelandgroupinc.com  
**ASLA Chapter:** Idaho/Montana

**Project Specifications**

**Project Description:** This project was a rehabilitation project to replace damaged concrete drives and sidewalk and expand the existing parking lot.

**Project Type:**  
Institutional/education  
Part of a redevelopment project

**Design features:** Bioretention facility and pervious concrete paving utilized as a seepage system to keep depths shallow enough to eliminate the need for rock excavations.

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

**Impervious area managed:** 1 acre to 5 acres

**Amount of existing green space/open space conserved or preserved for managing stormwater on site:** greater than 5 acres

**The regulatory environment and regulator was** apprehensive about the project.

**Did the client request that other factors be considered, such as energy savings, usable green space, or property value enhancements?** We brought this to the client as a cost savings measure.
Case No. 100

Cost & Jobs Analysis
Estimated Cost of Stormwater Project: $100,000-$500,000 (Public funding: State - school district funds)

Related Information: Cost breakdown is not available.

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: No affect, green spaces were existing to remain as is.

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). Parking lot costs were reduced by utilization of pervious concrete. Rock excavation would have been required in order to install seepage beds and piping system.

Number of jobs created: 15-20

Job hours devoted to project:
- Planning and Design: 300
- Construction: 520
- Annual Maintenance: 0

Performance Measures
Stormwater reduction performance analysis:
The site is designed to retain a 500-year flood event on site.

Community & economic benefits that have resulted from the project: Minimal benefits as the change was small in nature.

Additional Information
Links to images:
https://picasaweb.google.com/thelandgroupinc/AmityElementarySchool?feat=directlink