**Green Infrastructure & Stormwater Management CASE STUDY**

**Catalyst MRP West**

**Location:** Madison, AL  
**Client:** RPD Catalyst  
**Design Firm(s):** Fuqua and Partners Architects, 4Site Inc. Civil Engineering and Landscape Architecture  
**Landscape architect/Project contact:** Andrew L. Wharton, ASLA  
**Email:** dwharton@4Siteinc.biz  
**ASLA Chapter:** Alabama

**Project Specifications**

**Project Description:** Project included the construction of two multi-tenant buildings totaling 80,000 sq/ft and associated site improvements. The project achieved LEED Gold Certification for Core and Shell and obtained site credits for both stormwater quality and quantity. It also achieved >50% reduction in potable water use for irrigation.

**Project Type:**  
Commercial  
Part of a new development

**Design features:** Rain garden, bioswale, curb cuts, and all Roof drainage discharged to surface rain garden areas instead of tying directly to storm drainage structures.

**This project was designed to meet the following specific requirements or mandates:**  
Developer/client preference, owner's desire was for a LEED Gold Project

**Impervious area managed:** greater than 5 acres

**Amount of existing green space/open space conserved or preserved for managing stormwater on site:** 1 acre to 5 acres

**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?** Yes, the owner expected water savings and enhancement of landscape and open space on the site.
Cost & Jobs Analysis
Estimated Cost of Stormwater Project: $100,000-$500,000 (Public funding: None)

Related Information: 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: Minimized the required size of storm drainage infrastructure through utilization of "rain gardens" and other integrated management practices throughout the site.

Cost impact of conserving green/open space for stormwater management over traditional site design/site development approaches (grey infrastructure)? Did not influence costs. A detailed cost comparison was not performed based on other goals for the project (ie LEED Certification).

Number of jobs created: unknown

Job hours devoted to project:
- Planning and Design: approx 480 hours excluding Architecture
- Construction: Not available
- Annual Maintenance: Not available

Performance Measures
Stormwater reduction performance analysis:
100% of 2-year storm retained on-site, and the first inch of rainfall runoff is treated for removal of 80% min. TSS.

Community & economic benefits that have resulted from the project: This project demonstrates emerging practices in the development of sites for commercial use and will help to prove the viability of a "green" approach to site development.

Project Recognition
LEED Gold Certification for Core and Shell

Additional Information
Links to images: email dwharton@4siteinc.biz for jpeg images if desired.