



Green Infrastructure & Stormwater Management CASE STUDY

Freedom Park Drive and North Watt Ave. Complete Street Project

Location: Freedom Park Drive, Sacramento, CA

Client: Sacramento Housing and Redevelopment Agency/Sacramento County DOT

Design Firm(s): Sacramento County Department of Transportation

Landscape architect/Project contact: Michael Wall

Email: wallm@saccounty.net

ASLA Chapter: California, Sierra

Project Specifications

Project Description: 3,000 lf of major commercial corridor. Includes stormwater planters, and infiltration swales in frontages and medians. Accomodate multi-modal users with bike lanes, bus stops, and roundabouts for traffic efficiency and pollution reduction.

Project Type:

Transportation corridor/streetscape

Part of a redevelopment project

Design features: Bioretention facility, bioswale, and curb cuts.

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

County ordinance, to meet funding criteria, developer/client preference

Impervious area managed: 1 acre to 5 acres

Amount of existing green space/open space conserved or preserved for managing stormwater on site: 5,000 sq/ft to 1 acre

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.

Cost & Jobs Analysis

Estimated Cost of Stormwater Project: >\$5,000,000 (Public funding: Federal, state, regional, local)

Related Information: Project out to bid - construction cost = \$4.7 million

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: Increased capital costs by approximately 25%

Cost impact of conserving green/open space for stormwater management over traditional site design/site development approaches (grey infrastructure)? Slightly increased.

Number of jobs created: 24

Job hours devoted to project: Not available

Planning and Design: Not available

Construction: Out to bid

Annual Maintenance: Not available

Performance Measures

Stormwater reduction performance analysis:

75% estimated

Community & economic benefits that have resulted from the project: TBD - not yet built