



Green Infrastructure & Stormwater Management CASE STUDY

Chatsworth Station Parking Lot

Location: 10046 Old Depot Plaza, Chatsworth, CA

Client: Southern California Regional Rail Authority (Metrolink)

Design Firm(s): Cornerstone Studios

Landscape architect/Project contact: Renie Meier-Wong

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ASLA Chapter: Southern California



Project Specifications

Project Description: To better filter the on-site storm water run-off from the newly added section of the parking lot, a biofilter was designed by lining the drainage swale with native grasses. These grasses capture the pollutants normally present in the storm water run-off. The filtered water is then channeled and collected into an underground storm drain. For aesthetic

purposes, these grasses are arranged in natural patterns along both sides of the channel to highlight their form, texture, and color.

Project Type:

Transportation corridor/streetscape

A retrofit of an existing property

Design features: Bioswale and curb cuts.

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

County ordinance

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? Not applicable

Cost & Jobs Analysis

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

Related Information: \$10,000-\$50,000 for the construction of the bioswale and drainage systems. \$100,000-\$500,000 for total project construction costs.

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 analysis was done

Cost impact of conserving green/open space for stormwater management over traditional site design/site development approaches (grey infrastructure)? No analysis was done

Number of jobs created: Not available

Job hours devoted to project:

Planning and Design: Not available

Construction: Not available

Annual Maintenance: Not available

Performance Measures

Stormwater reduction performance analysis:

No water was retained on-site, but it was slowed and cleansed by the bioswale to reduce peak flows and pollution into the storm drains.

Additional Information

Links to images: <http://www.csstudios.com/projects/chatsworth-station.html>

