



Green Infrastructure & Stormwater Management CASE STUDY

Sullivan Home

Location: Los Altos, CA

Client: Mr. and Mrs. Sullivan

Design Firm(s): Earthcraft landscape design, Inc, Kikuchi Associates

Landscape architect/Project contact: Bobby Markowitz

Email: info@earthcraftdesign.com

ASLA Chapter: Northern California



Project Specifications

Project Description: Client wants to go net zero water; we are using underground cisterns, capturing all the rainwater on site - approximately 100,000 gallons. Using the collected roof and surface water for irrigation (also using graywater with Epic System) and other purposes with the ultimate goal of domestic use.

Project Type:

Single family residential

A retrofit of an existing property

Design features: Green roof, cistern, and porous pavers.

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

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

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? Energy savings.

Cost & Jobs Analysis

Estimated Cost of Stormwater Project: \$100,000-\$500,000 (Public funding: None)

Was a green vs. grey cost analysis performed? No

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

Number of jobs created: 1

Job hours devoted to project:

Planning and Design: 150

Construction: 1,500

Annual Maintenance: 50

Performance Measures

Stormwater reduction performance analysis:

95% stormwater retained on site

Community & economic benefits that have resulted from the project: Saving potable water for city of Los Altos; stormwater retention (and use!), less pumping costs, less infrastructure for city,

Project Recognition

State of California

Additional Information

Links to images: <http://www.homepreservation.com/LosAltosNetZero>