Green Infrastructure & Stormwater Management CASE STUDY

Mayfield Heights City Hall Green Infrastructure Demonstration Project

Location: Mayfield Village, OH
Client: City of Mayfield Heights, Ohio
Design Firm(s): URS Corporation
Landscape architect/Project contact: Katherine Holmok, ASLA
Email: katherine_holmok@urscorp.com
ASLA Chapter: Ohio

Project Specifications

Project Description:

Project Type:
Government complex
A retrofit of an existing property

Design features: Rain garden, bioswale, downspout removal, porous pavers, curb cuts.

This project was designed to meet the following specific requirements or mandates: To meet funding criteria - project was funded by grant funds from Ohio EPA.

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?

Cost & Jobs Analysis

Estimated Cost of Stormwater Project: $100,000-$500,000 (Public funding: State - grant funding from Ohio EPA.)

Related Information:

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:

Cost impact of conserving green/open space for stormwater management over traditional site design/site development approaches (grey infrastructure)? Did not influence costs. The project was planned as a green infrastructure demonstration project from the outset.

Number of jobs created: 5

Job hours devoted to project:

Planning and Design: 800
Construction: 1,000
Annual Maintenance: Not available

Performance Measures

Stormwater reduction performance analysis:
The project is estimated to capture and infiltrate runoff from a 0.5-inch storm event.

Community & economic benefits that have resulted from the project: The project is designed to demonstrate a variety of feasible green infrastructure techniques to numerous homeowners and commercial property owners in Mayfield Heights and northeast Ohio.

Additional Information

Links to images: A project profile, images, plans are readily available from the landscape architect.