



# Green Infrastructure & Stormwater Management CASE STUDY

## Herron Playground

**Location:** 250 Reed St., Philadelphia, PA

**Client:** Philadelphia Department of Water

**Design Firm(s):** CDM and Langan

**Landscape architect/Project contact:** Jessica Brooks

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Photo Credit: Philadelphia Water Department

### Project Specifications

**Project Description:** The Philadelphia Department of Recreation collaborated with PWD's Office of Watersheds and the City's Capital Program Office to design and construct an infiltration system as part of an overall reconstruction of Herron Playground to manage both on-site and off-site runoff from the adjacent streets. The existing basketball court was reconstructed and resurfaced with porous asphalt, and a subsurface infiltration system was installed to manage stormwater runoff from adjacent streets.

### Project Type:

Recreation Center / Open Space

Part of a redevelopment project

**Design features:** Rain garden, bioswale, porous asphalt, porous playsurfaces, subsurface infiltration systems.

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

Local ordinance

**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:** N/A It was a project in an existing park.

**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, use of existing green space, in the form of parks and floodplain areas was considered.

### Cost & Jobs Analysis

**Estimated Cost of Stormwater Project:** \$100,000-\$500,000 (Public funding: Federal, State, and Local)

**Was a green vs. grey cost analysis performed?** No

**Number of jobs created:** Not available

**Job hours devoted to project:**

Planning and Design:

Construction:

Annual Maintenance: 12 hours

### Performance Measures

**Stormwater reduction performance analysis;** Philadelphia designs their systems to manage the first inch of every storm from the drainage area. The metric used is acre-inches. This project manages 1.04 acre-inches.

### Additional Information

**Links to images:**