



# Green Infrastructure & Stormwater Management CASE STUDY

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## Advocate Lutheran General Hospital Patient Tower

**Location:** Park Ridge, IL

**Client:** Advocate Health Care

**Design Firm(s):** Conservation Design Forum, OWPP/Canon Design, Gewalt Hamilton Associates

**Landscape architect/Project contact:** David Yocca, ASLA

**Email:** [dyocca@cdfinc.com](mailto:dyocca@cdfinc.com)

**ASLA Chapter:** Illinois



### Project Specifications

**Project Description:** Lutheran General's new 12 story patient tower, which opened in 2009, is constructed adjacent to the existing hospital. The site design includes an integrated landscape and rainwater system that enhances the healing quality of accessible garden spaces while retaining and treating rainwater on site. In addition to green building and site objectives, the design helps provide a peaceful respite for staff, patients, and visitors. Site elements include ornamental rain gardens adjacent to the main entrance drive, a cascading water runnel that leads to a public sculpture garden, and a meditation garden. The design encourages public accessibility to ornamental and functional rainwater elements that are both beautiful and

educational. Materials deployed include extensive and semi-intensive green roofs, rain gardens, rain chains, permeable pavement and infiltration features.

**Project Type:**

Other (please specify)

A retrofit of an existing property

**Design features:** Bioretention facility, rain garden, bioswale, green roof, downspout removal, porous pavers, and curb cuts.

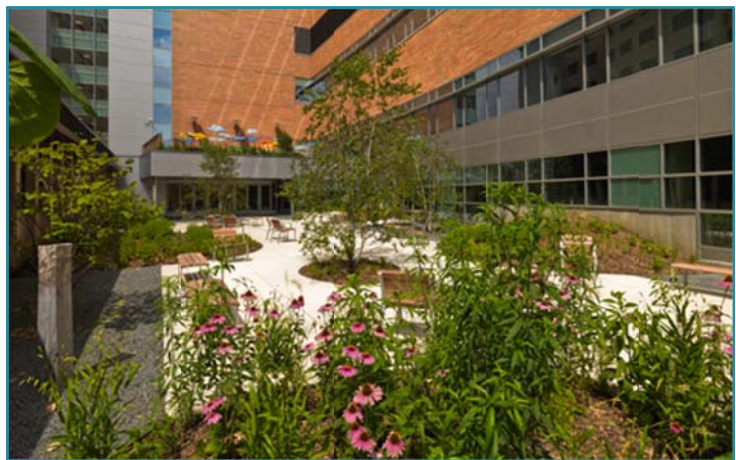
**This project was designed to meet the following specific requirements or mandates:**

Local ordinance, developer/client preference, LEED criteria, Metropolitan Water Reclamation District of Greater Chicago criteria

**Impervious area managed:** 1 acre to 5 acres

**Amount of existing green space/open space conserved or preserved for managing stormwater on site:** 1 acre to 5 acres

**The regulatory environment and regulator was** indifferent to the project.



**Did the client request that other factors be considered, such as energy savings, usable green space, or property value enhancements?** As a health care environment, the site, roadway, walkway, and gardens had to meet stringent accessibility and use comfort standards. All stormwater management features serve multiple functions and provide amenity garden space.

## Cost & Jobs Analysis

**Estimated Cost of Stormwater Project:** \$1,000,000-\$5,000,000 (Public funding: Not available)

**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:** It did not affect the overall costs.

**Cost impact of conserving green/open space for stormwater management over traditional site design/site development approaches (grey infrastructure)?** Did not influence costs.

**Number of jobs created:** Data not available.

**Job hours devoted to project:**

Planning and Design: 2,500  
Construction: Not available  
Annual Maintenance: Not available

**Performance Measures****Stormwater reduction performance analysis:**

Detailed data not available. All rainwater is treated on site. Small rain events are detained on site with 0% discharge. Larger events overflow into the city sewer system.

**Community & economic benefits that have resulted from the project:** Advocate Lutheran General is consistently ranked as a top hospital in the county. Their decision to provide a superior healing environment through green practices has resulted in a lead-edge green demonstration hospital. In addition to providing education for staff, patients, and visitors, the hospital regularly hosts tours and conferences focused on green practices.

**Project Recognition**

LEED Gold, 2010

**Additional Information**

**Links to images:** All photos from Conservation Design Forum:

[http://www.cdfinc.com/Project?project\\_id=46](http://www.cdfinc.com/Project?project_id=46)

