



# Green Infrastructure & Stormwater Management CASE STUDY

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## Gateways, Greenways and Downtown Redevelopment

**Location:** Franklin, IN

**Client:** City of Franklin Redevelopment Commission

**Design Firm(s):** Landscape Architecture: Lead Firm. Consultants: Civil Engineering, Historic Preservation, Hydrologists

**Landscape architect/Project contact:** Remenschneider Associates, Inc., Ken Remenschneider, ASLA

**Email:** [ken@remenschneider.com](mailto:ken@remenschneider.com)

**ASLA Chapter:** Indiana



Franklin, Gateways & Greenways



### Project Specifications

**Project Description:** The greenways project is part of a larger 2009 planning effort that included: planning and design for 4 gateways into the City; a 20-acre downtown redevelopment district currently recovering from a 2008 flood; hydrology study for flood mitigation as well as

design guidelines and standards for adaptive reuse of existing buildings and infill development - in keeping with the architectural heritage of the City's commercial core. Currently the design team is preparing construction drawings for 6 miles of greenway and streetscape improvements that utilizes green infrastructure stormwater management techniques along the primary greenway route to be built within a state highway ROW.

**Project Type:**

Transportation corridor/streetscape

Part of a redevelopment project

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

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

Federal NPDES

**Impervious area managed:** greater than 5 acres

**Amount of existing green space/open space conserved or preserved for managing stormwater on site:** greater than 5 acres

**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?** Property value enhancements and a new City landscape aesthetic.

## Cost & Jobs Analysis

**Estimated Cost of Stormwater Project:** >\$5,000,000 (Public funding: Federal, state, local)

**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:** Somewhat higher initial costs are being offset with the reduction of long-term maintenance via elimination of currently mowed turfgrass. Additional benefits include meeting MS4 requirements with green infrastructure planned within existing highway drainage ditches.

**Cost impact of conserving green/open space for stormwater management over traditional site design/site development approaches (grey infrastructure)?** Slightly reduced costs (1-9% savings). Long term cost savings.

**Number of jobs created:** 26

**Job hours devoted to project:**

- Planning and Design: 4,500
- Construction: Bidding and construction begins 2013
- Annual Maintenance: Bidding and construction begins 2013

**Performance Measures**

**Stormwater reduction performance analysis:**

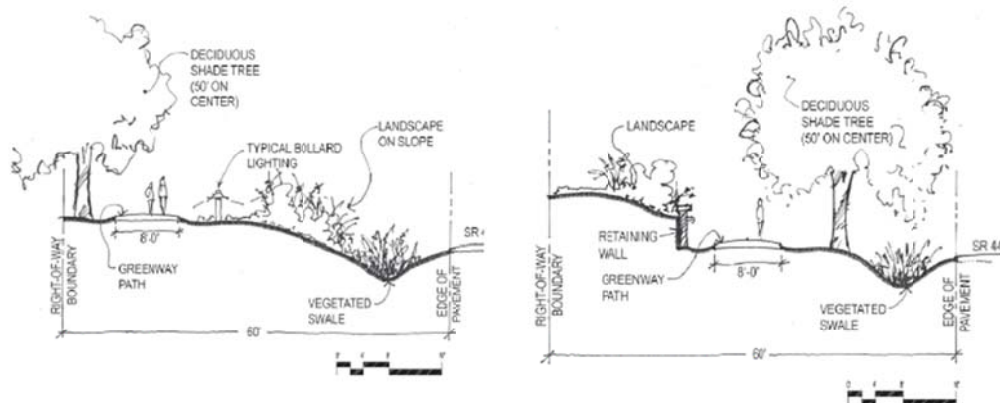
Design is proceeding with the goal of achieving stormwater quality and ground water infiltration for storm events up to 1", which in Central Indiana is approximately 88% of annual storm events.

**Community & economic benefits that have resulted from the project:** This is mostly to be determined upon construction. However, the Mayor has indicated that two businesses have either moved to Franklin or made a firm commitment to do so based upon the planning study and the fact that the City is moving forward with construction drawings. Five buildings in the Downtown have been or are in the process of renovations following the visioning and completion of the planning study.

**Additional Information**

**Links to images:** Graphic images of the project have been sent via email attachment to Kevin O'Hara at ASLA National.

Currently in design and construction drawings, construction planned for 2013.



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