



Green Infrastructure & Stormwater Management CASE STUDY

The Florida Civil War Center

Location: Jacksonville, FL

Client: Timucuan Trail Parks Foundation and the City of Jacksonville

Design Firm(s): Steven Davis, ASLA

Landscape architect/Project contact: Steven Davis, ASLA

Email: stevendavisasla@bellsouth.net

ASLA Chapter: Florida

Project Specifications

Project Description: The Florida Civil War Center is a 21,000 sq/ft museum and research center that will integrate the newest green technology and innovation, which includes a green roof design and natural stormwater treatment. Visitors will enjoy rooftop gardens, nature trails, butterfly gardens, topiary plantings, star gazing and concerts in an outdoor amphitheatre. The interior will feature state-of-the-art meeting facilities, an auditorium and classrooms. There will be an observation working lab and a children's 'hands-on' area. Seasonal exhibits will keep the history "alive and telling" while permanent exhibits will timelessly honor Florida's Civil War history.

Project Type:

Museum and research center

Part of a new development

Design features: Bioretention facility, rain garden, bioswale, and green roof.

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

State statute, to meet funding criteria, developer/client preference, The Preservation Project Jacksonville satisfied state mandates for development growth management.

Impervious area managed: 1 acre to 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? The client requested LEED certification for this project and the landscape architect provided a preliminary LEED analysis.

Cost & Jobs Analysis

Estimated Cost of Stormwater Project: \$500,000-\$1,000,000 (Public funding: State, local - Land for this project was provided by the City of Jacksonville under The Preservation Project Jacksonville)

Related Information: 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: The green roof will lower heating and cooling costs for the museum and research center. Underground drainage lines will be significantly reduced by using bioswales and natural stormwater treatment. Acres of natural habitat will be left undeveloped which will reduce landscape installation costs and provide native habitats for plants and animals. A solar pavilion will provide electrical power for exterior lighting.

Cost impact of conserving green/open space for stormwater management over traditional site design/site development approaches (grey infrastructure)? Significantly reduced costs (10% or greater savings). This is based on the combined savings listed above.

Number of jobs created: One; the landscape architect provided all planning and design services to date.

Job hours devoted to project:

Planning and Design: 680 hours

Construction: Not built

Annual Maintenance: Not built

Performance Measures

Stormwater reduction performance analysis:

100% of stormwater that falls on the site will be retained on site in a two-year storm event.

Community & economic benefits that have resulted from the project: The Florida Civil War Center will be an extension of Camp Milton Historic Preserve, <http://www.campmilton.com>. The Camp Milton project was built under The Preservation Project Jacksonville and is connected to the Florida Civil War Center site by the Jacksonville-Baldwin Rail Trail. The same landscape architect provided design services for both of these projects. Since opening in 2006, Camp

Milton has steadily created increased economic development in west Jacksonville by offering a series of public events including large scale battle reenactments and local park activities. Traffic from the rail trail has brought a growing number of visitors to Camp Milton and The Florida Civil War Center is expected to enjoy this same exposure. Both projects are flagship attractions for the Timucuan Trail Parks Foundation which promotes awareness of cultural, heritage and nature tourism in northeast Florida. Both projects are part of the rapidly growing Interstate 10/Chafee Road region of west Jacksonville. And both projects provide hundreds of acres of undeveloped natural land for public enjoyment and environmental protection.

Project Recognition

City of Jacksonville Historic Preservation Award, sister project, adjacent Camp Milton Historic Preserve, <http://www.campmilton.com>

Additional Information

Links to images:

See Appendix A for additional images.

<http://www.preserveflorida.org/news-events/projects/florida-civil-war-center>

The Preservation Project Jacksonville (TPPJ) began over ten years ago and, by 2003, this City of Jacksonville growth management program successfully purchased enough land to create the largest urban park system in America. The Timucuan Trail Parks Foundation was formed to continue the work of TPPJ. The Foundation is currently conducting a fundraising drive for construction of The Florida Civil War Center.

Appendix A





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