

CASE STUDY

Owner:

Oxford College of
Emory University

Contact: Mr. Todd Dolson

Phone: (404) 727-1910

Architect:

Jova/Daniels/Busby, Inc.

Contractor:

New South
Construction, Inc.

Schedule:

August 2008

Budget: \$22.3 million
construction



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Emory Oxford College Residence Hall Complex, LEED Certification Services Atlanta, Georgia

Making buildings work. **Better.**



Profile:

Oxford College Residence Hall Complex, which is under construction, is a new dormitory complex that consists of two residence buildings with a total area of 112,600 square feet. The two buildings are designed to house 350 students. There will also be a health counseling office area located on part of the 1st floor of one building. The project is expected to be certified with a LEED Silver rating under LEED-NCv2.2.

Description of Services:

As the LEED Certification consultant to the project, EMC's responsibilities include: Coordinating project's LEED certification progress and documentation submittal; Attending integrated design and construction team meetings to set up realistic project goals in terms of target LEED certification level and refine points to pursue; Provide sustainable design guidance in material and equipment selections; Assist the architect and engineers in optimizing whole building energy performance applying passive architectural design strategies and mechanical energy efficiency measures; Perform energy simulation for design and budget buildings for LEED Certification per ASHRAE 90.1-2004 Appendix G Performance Rating Method; and develop the Measurement and Verification Plan to track and verify long-term building operation performance.

Sustainable Design & Construction Features include:

Community connectivity and comprehensive transportation plan; Innovative stormwater management for quantity and quality controls using decorative/playful stormwater treatment, linear bioretention, "Green Street" infiltration and porous paving; Water efficient irrigation and low-flow plumbing fixtures; Optimized energy performance with measurement and verification protocol; Enhanced commissioning and refrigerant management; Construction waste management and IAQ management; Recycled, regional, low-emitting sustainable materials; Designs for high controllability, thermal comfort and daylight views.

Engineering Excellence Since 1976!

Company Overview

Making buildings work. Better.



EMC is dedicated to creating sustainable facilities by optimizing performance through energy modeling and analysis, building automation systems application, advanced mechanical and electrical design, construction management, and building commissioning to achieve lower energy costs, improved comfort, and increased productivity.

Experience

Since 1976, EMC has been a leader in delivering high performance building solutions. As a multidiscipline firm, we have strong credentials in mechanical, electrical, and control systems retrofit and modernization and energy engineering and commissioning.

Where do EMC's experts work?

You'll find us in schools, colleges, hospitals, government facilities, healthcare, and all types of private sector structures from supermarkets to office towers. In fact, EMC's engineers and technicians go wherever new facilities are under construction or existing structures or systems are operating at less than peak performance.

Services

BUILDING COMMISSIONING/RETRO-COMMISSIONING

The commissioning process for new buildings and major renovations, provides facility owners with assurance the facility is functioning to meet their project requirements. Commissioning is the only process that assures a quality outcome. Whether you manage a new or existing facility, it's really difficult to know unless an independent commissioning expert has evaluated your systems. EMC's retro-commissioning services provide low cost, high return operating improvements that reduce operating costs. Think of it as a building "tune-up".

SUSTAINABLE DESIGN

More organizations are considering Green building systems and renovations. But to go Green--affordably--you need integrated sustainable design. EMC provides energy simulation modeling, daylighting, and high performance systems concepts to meet LEED requirements. We're ready to advise and coordinate and show you how to make the wise choices that deliver real environmental and economic benefit.

ENERGY ENGINEERING

Energy and how it's used affects quality-of-life and the global environment. Our core business is creating energy systems that optimize energy use. Our energy-engineering services ensure that you meet today's needs while planning for tomorrow's growth. This includes audits, assessments and implementation of energy improvement projects.

FACILITY DESIGN

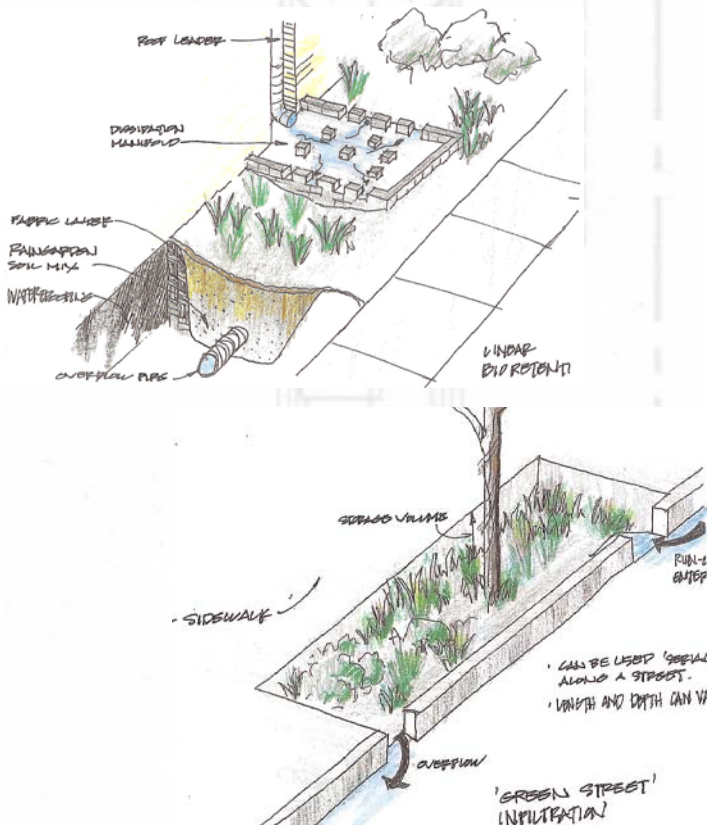
Integrated systems design is crucial to facility renovation and modernization, particularly in high performance facilities. EMC understands how to take cutting edge mechanical, electrical, and building automation system technology and integrate it into real world solutions. And we can do it while your facilities stay in operation.

DESIGN/BUILD

Identifying your facility's energy issues is just half the battle. You then need a retrofit strategy that maintains the building environment and minimizes system downtime through every phases of construction. EMC is skilled at engineer-led, design/build projects, including efforts funded through Energy Savings Performance Contracting.

TRAINING

Today's building systems are complex. But EMC believes any operations and maintenance team is up to the challenge--if properly trained. We offer an extensive program of live and videotaped training classes and seminars--onsite and hands-on.



Whether you need a retrofit or a modernization or a new high performance building, you can rely on EMC to bring engineering excellence to your project.

Imagine reducing operating costs, improving comfort, increasing productivity, and getting your building's problems fixed quickly. EMC's services are the key!

OFFICE LOCATIONS

Denver, CO * Atlanta, GA * Salt Lake City, UT * Irvine, CA * Raleigh, NC * West Palm Beach, FL

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