

PROJECT PROFILE

KENDALL LIBRARY & COMMUNITY CENTER

Houston Public Library
Houston Parks & Recreation Department
Houston, Texas

LEED NC

45% Water Use Reduction

85% Construction waste
diverted from landfill

36% Recycled Content

LEED® Facts

Kendal Library &
Community Center
Houston, TX

LEED for New Construction
Certification awarded TBD

LEED Silver 37*

Sustainable Sites 9/14

Water Efficiency 4/5

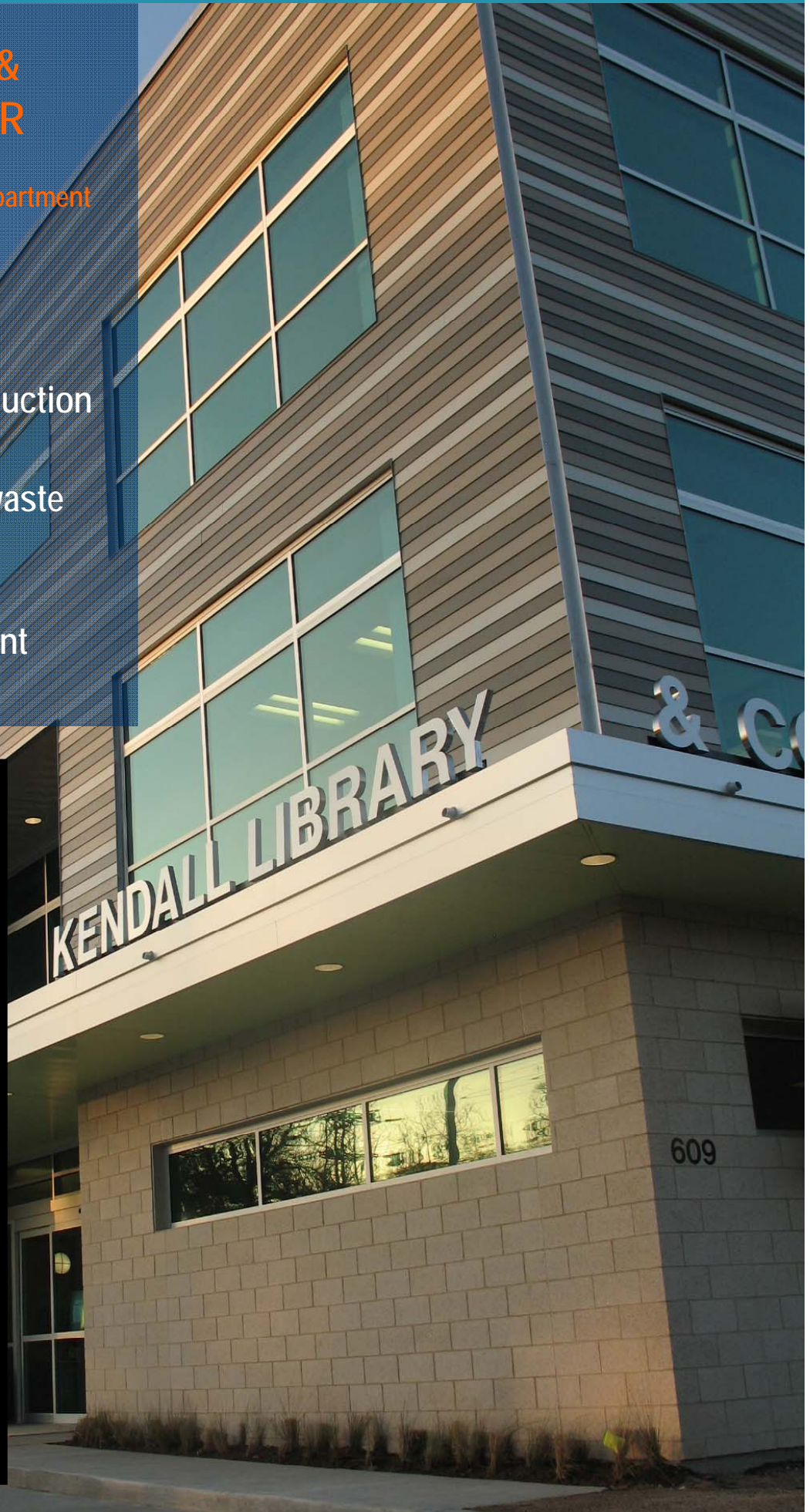
Energy & Atmosphere 4/17

Materials & Resources 6/13

Indoor Environmental
Quality 9/15

Innovation & Design 5/5

*Out of a possible 69 points



PROJECT PROFILE

Houston Public Library & Houston Parks and Recreation Department

Kendall Library & Community Center in Houston, TX

PROJECT DESCRIPTION

The Kendall Library and Community Center (Kendall) is a replacement library for an aging facility that could no longer fulfill the surrounding area's growing needs. The new facility is Houston's first combined library and community center. The Project, located in Houston, Texas, lies a short distance from Interstate 10 within an area known as the Energy Corridor. The three-story, 28,600 sq. ft. design is located on a 2.831 acre site. The facility contains classrooms, reading and stacks areas, gathering and meeting rooms, multiple computer areas, a gymnasium, a drive through service window and an automated book return.

THE BUSINESS CASE

Sustainable design creates a better learning environment. In schools, improved natural day lighting increases reading test scores by 5%. One can conclude that, similar to schools, reading comprehension is improved in libraries with increased day lighting. Increased energy efficiency helps offset cuts in funding and rising utility costs. Use of durable, sustainable materials decreases facility maintenance costs and improves public perception. The LEED certification process for this project was completed without a significant cost increase to the construction budget.

STRATEGIES AND RESULTS

- Paved surfaces are sloped toward bioswales. The bioswales naturally filter pollutants from the rainwater and provide a natural habitat. The bioswales connect to a 325,000 gallon underground raintank that retains water for irrigation.
- Native landscaping was selected for its drought resistant, low maintenance characteristics. Thus reducing emissions from regular maintenance and reducing the quantity of water required for irrigation.
- Water efficient plumbing fixtures reduce water consumption.
- The elevators (compared to hydraulic elevators) consume 70% less energy, eliminate the need for 160 gallons of hydraulic oil, and produce less operating noise.
- Multiple finishes and building materials contain recycled content. Some items are constructed of 100% post-consumer recycled content.
- Low-E window glazing improves the thermal efficiency of the building, decreases transmittance of harmful UV-rays, allows increased transmittance of visible light, and decreases the dependence on artificial lighting.
- Ample glazing provides views to the outside from 90% of the regularly occupied spaces.
- A low-slope, cool roof minimizes solar heat gain and increases energy efficiency.

ABOUT HOUSTON PUBLIC LIBRARY AND HOUSTON PARKS & RECREATION

Houston Public Library (HPL), the community's place for: learning, fun and adventure; access to innovative technology; creative solutions to information needs; and service excellence. HPL serves the City's culturally diverse community by offering a broad program of free educational, informational and recreation activities through a central complex and neighborhood branch libraries. The HPL System serves a population of 2,149,948 over 639 square miles.

The Houston Parks and Recreation Department (HPARD) exists to enhance the quality of urban life by providing safe well-maintained parks and offering affordable programming for the community. HPARD stewards and manages over 38,992 acres of parkland and green space for the City of Houston; develops and implements recreational programming for citizens of all abilities; and manages all HPARD facilities.

"Quote."

-Name, Job Title, Organization



Owner: City of Houston
Architect: English + Associates Architects, Inc.
MEP: Jacobs Engineering
Structural: Henderson Rogers
Civil: Othon
Landscape: Asakura Robinson
Commissioning: Apollo BBC
Contractor: Teal Construction
Project Size: 28,600 s.f.
Total Project Cost: \$8,642,800
Cost PSF: \$302
Completion: March 2010

Photography courtesy of Matthew Duggan and G. Lyon Photography, Inc.

ABOUT LEED

The LEED Green Building Rating System is the national benchmark for the design, construction, and operations of high-performance green buildings. Visit the U.S.Green Building Council's Web site at www.usgbc.org to learn more about how you can make LEED work for you.