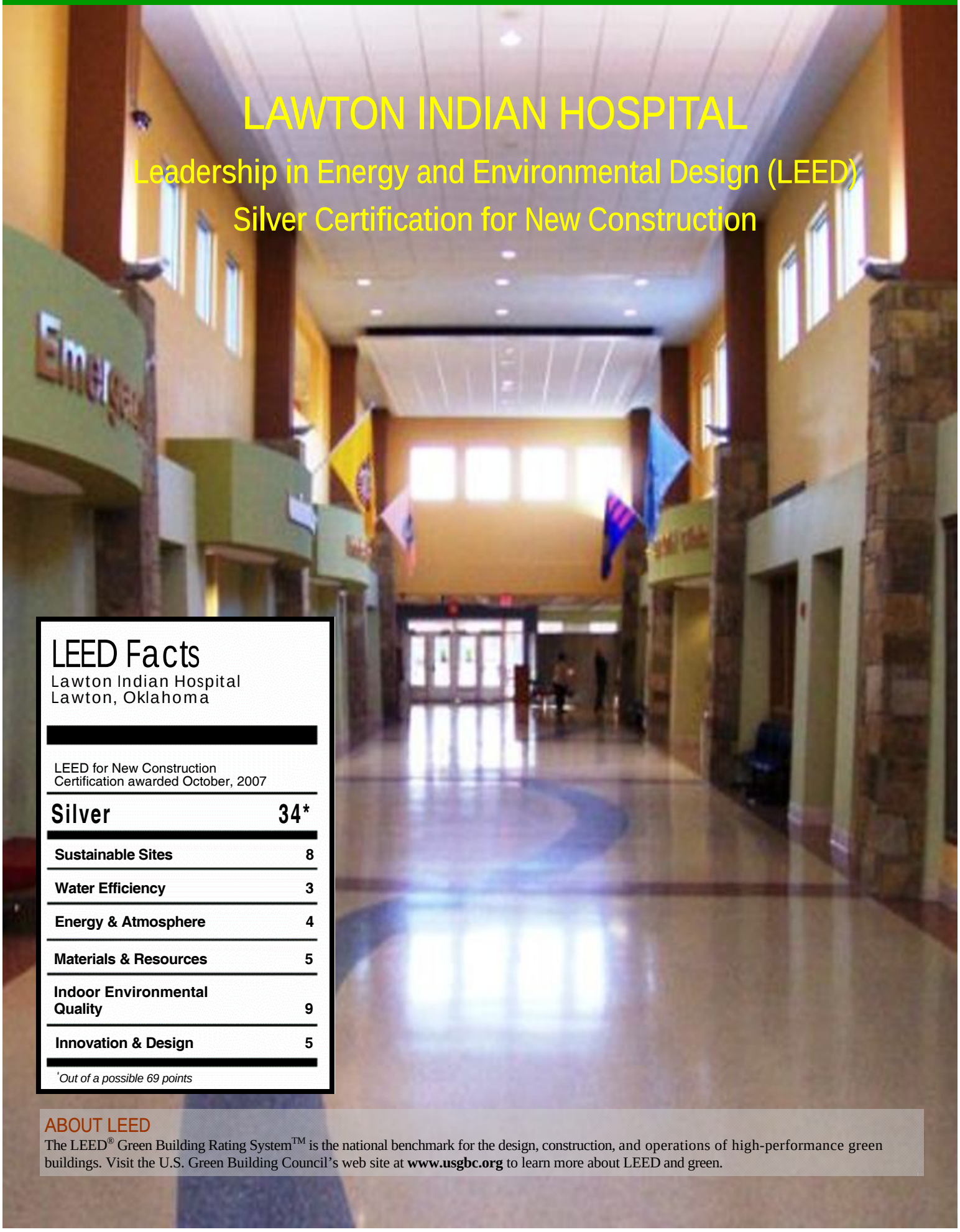
PROJECT PROFILE

LAWTON INDIAN HOSPITAL

Leadership in Energy and Environmental Design (LEED)
Silver Certification for New Construction



LEED Facts

Lawton Indian Hospital
Lawton, Oklahoma

LEED for New Construction
Certification awarded October, 2007

Silver	**34***
Sustainable Sites	**8**
Water Efficiency	**3**
Energy & Atmosphere	**4**
Materials & Resources	**5**
Indoor Environmental Quality	**9**
Innovation & Design	**5**

*Out of a possible 69 points

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 LEED and green.

LAWTON INDIAN HOSPITAL

Setting the Green Standard

The Lawton Indian Hospital sets the example for Sustainable Building design in IHS.

WHAT IS LEED?

The Leadership in Energy and Environmental Design (LEED) Green Building Rating System™ encourages and accelerates global adoption of sustainable green building and development practices through the creation and implementation of universally understood and accepted tools and performance criteria.

LEED is the nationally accepted benchmark for the design, construction and operation of high performance green buildings. LEED gives building owners and operators the tools they need to have an immediate and measurable impact on their buildings' performance. LEED promotes a whole-building approach to sustainability by recognizing performance in five key areas of human and environmental health: sustainable site development, water savings, energy efficiency, materials selection and indoor environmental quality.

ACHIEVING LEED

In the spring of 1967, the Lawton Indian Hospital first opened its doors with the vision of offering the best that clinical knowledge and technology had to offer at that time. Forty years later, that commitment to providing the latest and most innovative medical service was again reflected in Lawton Indian Hospital's plans for a 36,756-square-foot (3,415-m²) expansion.

The Lawton Indian Hospital Expansion Project — completed on January 16, 2007 — was the first health care facility constructed within the Indian Health Service (IHS) to achieve LEED certification from the U.S. Green Building Council. And in doing so, the Lawton Indian Hospital has broken new ground and raised the bar for the Indian Health Service while making a strong statement to the community it serves about its commitment to the environment and public health.

Pursing LEED was a new experience for most of the project team, simply because the team didn't have the benefits of looking to another IHS project for guidance. Teamwork and commitment between all the project team members and the Lawton Indian Hospital staff was critical to making the project work and reaching our goal. The biggest challenge in pursing LEED certification was designing and building the hospital with a new set of parameters beyond those which are typically seen with conventional construction projects.

The LEED certification criteria for New Construction focused on the categories of sustainable site development, water efficiency, energy efficiency, materials and resources, indoor environmental quality, innovation and design. In addition to meeting the prerequisite criteria, the Lawton Indian Hospital earned 34 additional points, achieving LEED Silver certification.

STRATEGIES AND RESULTS

The high windows along the perimeter of the main corridor area allows natural light to flood much of area reducing the number of lighting fixtures required. Photosensors and occupancy sensors ensured that high-efficiency lamps and ballasts are turned off when rooms are unoccupied or sufficiently daylit while giving 91% of the building occupants individual lighting controls. ENERGY STAR® roofing reflects solar heat, which can lower roof surface temperature by up to 100F, decreasing the amount of heat transferred into a building and in turn reduces the internal cooling loads. 72% of the hospital annual electricity use will come from renewable energy sources over the next two years. The project team selected materials for their recycled content, regional origin, and low chemical emissions. The paints, adhesives, and carpets featured low chemical emissions. More than 10% of the total material used in the building came from recycled content. 23% of the building materials were manufactured within 500 miles of the site, and a recycling plan diverted 75% of all construction and demolition waste from the landfill. Sustainability—it's in the things you don't see, the things you don't notice, it's being educated about green technologies and becoming consciously aware of the environment.

"I wanted the staff to take part in the design of the new building. I want them to have pride in what we have here. We are a good facility with great staff serving great people. We are only going to get better. There is no question that we have met our goal with this project."

Hickory Starr,
Chief Executive Officer, Lawton Indian Hospital

Owner: Indian Health Service
Area: Oklahoma City Area Indian Health Service
Facility: Lawton Indian Hospital
Location: Lawton, Oklahoma
Owner's Representative: Division of Facilities Management
Contracting Office: Engineering Services-Dallas
Architect: Dyron Murphy Architects, P.C.
Planner: CTB Associates
Construction Manager: FLINTCO
Civil Engineer: Horizon Engineering
Structural Engineer: RME ABQ, LLC
Mechanical/Electrical Engineer: Bridgers & Paxton
Equipment Consultant: Beverly Diddy Designs
Sustainable Design Consultant: Environmental Dynamics, Inc.
Commissioning Agent: Automated Building Systems

Construction Dates: 2005-2007
Project Size: ..... 36,756 square feet
Total Project cost: ..... $10.4 million
Construction Cost per square foot: $259
Design Cost per square foot: $26

Oklahoma City Area Indian Health Service
Office of Environmental Health & Engineering
Division of Facilities Management

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