



Staley High School

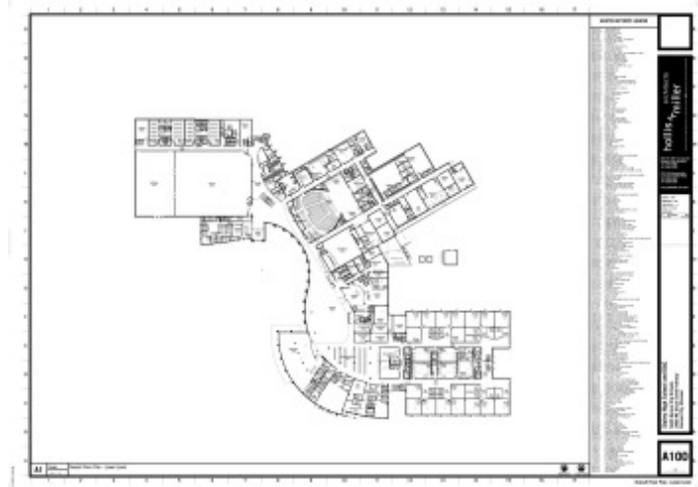
Team & Process

Pre-design

Prior to deciding to pursue LEED certification, North Kansas City Schools committed to a high performance HVAC system using geothermal heat pumps and commissioning.

Design

The district did not finalize its decision to pursue LEED certification until the project was in design development. Although this was the first LEED project for many team members, they worked diligently from that phase on to incorporate many sustainable strategies using the LEED checklist as a tool. Guided by an experienced sustainability consultant, the team focused on the district's goals of energy efficiency and indoor environmental quality while striving to address site issues, water efficiency, and materials and resources.



Construction

During the construction process, the sustainable procedures and guidelines were implemented. Verifying and enforcing these items on the project required constant effort from the school district, design team, construction manager, and contractors.

The construction manager's diligence resulted in a successful construction waste management program and prevented construction indoor air quality problems.

Operations/Maintenance

District staff wanted to reduce the exposure of building occupants and maintenance personnel to potentially hazardous chemical contaminants that adversely impact air quality, occupant well-being, and the environment by developing a comprehensive green cleaning program. The program is being tested at Staley High School but is planned for use at other district schools in the future.

Commissioning

The commissioning authority took the lead role in the development of the Owner's Project Requirements (OPR) for the district and created a document that will be useful for the facility as it grows and for all future district buildings.

The commissioning authority played an integral role in each phase of design and construction and assisted the contractor with a variety of construction issues. Continuous involvement with the team members helped ensure that the facility operated as intended.

Post-Occupancy

The district chose to implement a green building education program that includes comprehensive signage with a self-guided tour and this case study to further the reach of the sustainability efforts. In addition, eight teachers and six students who will teach and learn at Staley High School in the 2008-09 academic year developed curriculum on the high performance features of the building. The team developed a flexible four-tiered, four-topic curriculum that provides 10 hour of instruction per high school grade level.

Useful Information Resources and Software

- The engineers used Trace 700 (version 4.1.9) for energy modeling.
- The design team used BuildingGreen LLC's online GreenSpec® Directory to research sustainable materials and strategies.

Primary Design Team Members

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Last updated: 12/22/2008

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