

## Next Generation New School Facility

Champaign, Illinois

Client/Architect: Architectural Spectrum



### Range of Services

- ▶ Structural design from schematic phase through construction documents
- ▶ System cost comparison analysis
- ▶ Structural permit documents
- ▶ Construction administration

### Project Overview

A new two-story 38,700 SF, \$4 million building which includes 14 classrooms, housing 265 students. Once the two-phase project is complete it will feature a full-size gymnasium, spectator seating and concession stand facilities.

The structure for the new building consists of shallow concrete foundations, load-bearing cmu walls, steel columns, steel beams, wood trusses, composite deck, and steel roof deck.

A few highlighted structural design elements for this project are listed below:

- Lateral system which accounts for open floor diaphragms due to large assembly spaces.
- Load-bearing cmu walls with significant number of openings.

### The End Result

A new school facility which opened successfully on-time and in-budget in August 2007 with a satisfied client.



*integrating*  
**STRUCTURAL**  
design  
*focused on*  
quality