

Kaleida Health Global Vascular Institute University at Buffalo CTRC/Incubator

Buffalo, NY



Building Information

Size: 476,500 sf

Number of Stories: 10

Dates of Construction: February 2008 - April 2011

Project Delivery Method: Guaranteed Maximum Price

Overall Project Cost: \$291 million

Primary Project Team

Owner(s): Kaleida Health &

Buffalo 2020 Development Corporation

Architect and Engineers: Cannon Design

Construction Manager/General Contractor:

Turner Construction

Structural System

- Foundation consists of grade beams and steel helical piles driven to refusal on limestone bedrock
- Sub basement is a 5" slab on grade
- Remaining floors are composite metal deck with slab thickness ranging from 4" to 7.5"
- Lateral forces are resisted by braced frames
- Typical beam size is W18x40 but sizes vary throughout the structure based on the function of the spaces

Architecture

- State-of-the-art medical facility
- Includes exam rooms, classrooms, offices, a cafe, a wellness center and library, and a research facility
- "Collaborative Core" enables interaction from all levels
- Universal grid design and 18' floor-to-floor height
- Curtain wall facade composed of aluminum and metal panels as well as various types of glazing

MEP Systems

- Steam and chilled water served by campus power plant
- Heating, cooling, and ventilation primarily achieved using a variable air volume system
- Lab exhaust and atrium smoke exhaust systems provided for specialized areas
- 4160V primary service supplied by campus power plant and stepped down to 480Y/277V and 120/240V
- 3 diesel powered 1825 kW emergency generators



William C. McDevitt

Structural Option

<http://www.engr.psu.edu/ae/thesis/portfolios/2011/wcm5016/index.html>