Campus Square Building

Harrisburg, PA

Owner: GreenWorks Development
Architect: Ganflec Architects & Engineers
Civil: Kairos Design Group and Edward G. Black & Assoc.
Structural: Gannett Fleming
Mechanical: McClure Company
Electrical: G.R. Sponaugle
Plumbing: Enginuity LLC
CM: Wohlsen Construction Company

Project Information and Architectural Features

-75,000 SF Mixed Use Space- Retail/Office/Educational
-Construction Dates (Core & Shell): June 2008 – August 2009
-4 Stories Above Grade, Mechanical Basement Space
-Cost: $9,000,000
-Delivery Method: Design/Build
-LEED Gold Certification (LEED-CS v2.0)

Structural

-Steel moment resisting frame with composite beam and deck floor system
-Red brick façade with metal stud back-up and aluminum frame storefront
-5” 4000 PSI concrete slab-on-grade with Thickened spread footings supporting pier system

Mechanical

-46 Well - Closed Loop Geothermal System
-Each well was drilled to 450 feet deep to achieve the cooling/heating load for the building
-Fully flexible water source heat pump system with wireless automatic temperature controls and energy recovery
-Centralized gas fired water heater in basement
-Low flow water closets and faucets with automatic sensors
- Waterless urinals (up to 40,000 gallons reduced annually)

Electrical

-Integrated building management system
-47 kW photovoltaic solar system
-Three Invertors on the roof and basement,
-Six batteries in basement as backup power
-Wireless thermostats at heat pumps, reducing wiring and field waste

Andrew R. Martin

Construction Management

http://www.engr.psu.edu/ae/thesis/portfolios/2010/arm5056/index.html