

South Halls Renovation: Ewing-Cross

University Park, PA



ARCHITECTURE

- One of four dormitory renovations
- Brick façade and limestone veneer enclosure
- New wrap around porches invite students to socialize

STRUCTURAL SYSTEM

- Original structure consists of HSS columns and lift slab construction
- The new structural system for the bathrooms consists of concrete slab on composite metal deck

MECHANICAL SYSTEM

- Heating and cooling is supplied via campus steam and chilled water
- The building utilizes a two-pipe and a four-pipe system to condition spaces
- (2) ERVs supply fresh outside air and utilize enthalpy wheels
- (2) 1700CFM AHU condition the meeting rooms

ELECTRICAL SYSTEM

- 480/277V Main Electrical Service
- (2) 600A Panel boards
- 208/120V Emergency Feed
- One main electrical room on ground floor

PROJECT TEAM

Owner: Penn State

Design Builder: Barton Malow Company

Architect/MEP Engineer: Clark Nexsen

Civil Engineer: Sweetland Engineering

Electrical Contractor: The Farfield Company

Mechanical Contractor: McClure Company

PROJECT OVERVIEW

Size: 71,002 GSF

Stories: Four plus Basement

Function: Residential & Assembly

Construction Dates: May 2013 - Dec 2013

Delivery Method: Design-Build

SPECIAL THANKS



CLARK • NEXSEN

Architecture & Engineering

Quaid Spearing | Construction Management Option

<http://www.engr.psu.edu/ae/thesis/portfolios/2014/qws5007/index.html>