



Moore Building Addition  
University Park, PA 16802

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Construction Management

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~\$26.1 MILLION

~57,000 ft<sup>2</sup>

PJ DICK

Project CM Firm

JUNE 2010 TO JANUARY 2012

DESIGN BID BUILD

## PROJECT TEAM

DEPARTMENT

COST

SIZE

TIME

METHOD

**ARCHITECTURE** The architectural system in the Moore Building Addition and renovation is designed to demonstrate the forward-thinking of Penn State University by incorporating both the classic brick look fused with modern design cues.

**FAÇADE** The façade is made up of brick and aluminum veneer walls as well as large glass panels in a curtain wall and mullion system that preserves the modern look and feel of the building.

**NEW** Structural systems used in the Moore building Addition and Renovation include a braced frame system that runs throughout the building's structure. The structure is primarily composed of structural steel and composite decks (4000psi). The floor-to-floor height for all floors is 12'-6".

**EXISTING** The existing steel structure of the north wing will be used and the new structure will "wrap" around it,

## ARCHITECTURE

KLING STUBBINS

Project A/E Firm

## STRUCTURAL

### MECHANICAL

- Structure houses two main AHUs (29 & 48 BHP) in basement level – feed chilled beams and VAVs
- Low pressure steam used
- Two 905 GPM Chilled water pumps, one @130 GPM

### LIGHTING/ELECTRICAL

- Main luminaire used: 55Watt T8 lamp (lights 85% of building interior spaces)
- Electrical connection made in manhole #201
- Power is stepped down from 12.47KV via transformer,
- Distributed as 3Phase 480Y/277V.

## M.E.P.

### CHALLENGES

- Over-crowded football weekends during fall semester requires extra safety and schedule-related pre-cautions
- New and old structure must be connected; requires underpinning and merging steel structures
- Student safety concerns and traffic precautions necessary

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[www.engr.psu.edu/ae/thesis/portfolios/2011/mha119](http://www.engr.psu.edu/ae/thesis/portfolios/2011/mha119)