

Lutheran Theological Seminary at Philadelphia, The New Learning Center Philadelphia, Pennsylvania



PROJECT TEAM

Owner – The Lutheran Theological Seminary
Construction Manager – Alvin H. Butz, Inc.
Project Manager – Becker & Frondorf
Architect – GYA Architects, Inc.
MEP Engineer – Paul H. Yeomans, Inc.
Structural Engineer – O'Donnell & Naccarato, Inc.
Civil Engineer – Boles, Smyth Associates, Inc.

BUILDING STATISTICS

Project Cost – 60,000 square feet
Project Cost – Approximately \$14,880,000
Delivery Method – Design-Bid-Build
Construction Start – March 2004
Construction End – February 2006
Levels Above Grade – 3 Stories

ARCHITECTURE

Function – First floor is comprised of reception halls, lounges and the kitchen. Second and third floors are mostly made up of classrooms, conference rooms, and offices. The New Learning Center is a cornerstone of the Philadelphia Campus quadrangle.
Envelope – The North stone wall was left standing when the previous building was torn down and integrated with the new portions. The new structure of the building has a metal clad façade decorated with various shapes of windows.

MECHANICAL SYSTEMS

(3) Packaged DX Rooftops
100% Outside Air Ranging From 1600-6300 cfm
Terminal Fan Coils with Heating and Cooling Coils
(2) 1250 MBH Gas Fired Boilers
(1) 150 Ton Air Cooled Chiller
(5) Split System Air Conditioning Units
Variable Speed Fans and Pumps

STRUCTURAL SYSTEMS

Basement has 5" SOG with WWF over 4" stone
Steel Column, Girder, and Beam Construction
K-Series Joint Supporting System
Concrete on Metal Decking Floor Construction
30'x35' Bays
Poured Concrete Foundation with Column Base Plates

ELECTRICAL / LIGHTING SYSTEMS

750 KVA, 13.2 KV Transformer
480/277 V, 3 Phase, 4 Wire Service
125 KW Emergency Generator
Recessed, Surface Mounted, and Suspended
Flourescent Lighting
Manual and Automatic Lighting Controls
Emergency Lighting by Code

Wesley S. Lawson

Pennsylvania State University
Department of Architectural Engineering, Mechanical Option
<http://www.engr.psu.edu/ae/thesis/portfolios/2008/wsl120/>