

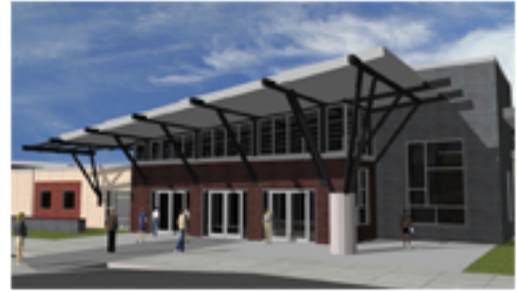
# NORTH POCONO HIGH SCHOOL

Covington Township, PA



## Building Statistics

Building Occupant: North Pocono School District  
Occupancy Type: Educational  
Building Size: 230,000 sq. ft.  
Total Levels: Three  
Approximate Bid: 29,000,000  
Ground Breaking: July 2007  
Completion Date: September 2009



## Project Team

Owner: North Pocono School District  
Architects: Crabtree Rohrbaugh, and Associates  
Design Engineers: Greenman and Pederson Inc.  
Construction Managers: Lobar Inc.



## Architecture

North Pocono is a three level educational facility. The exterior of the school is a brick veneer that curves inward at the front of the building. Within the school there is: a standardized gymnasium, a weight room, an aerobics room, and an auditorium that seats 900 people, as well as modern computer and science labs. The roof is flat with a slanted equipped with sure-seal moisture protection. It also has a slanted overhang above the entrance.



## Structural Overview

Cast in place reinforced concrete footings  
8" CMU's or 12" cast in place concrete make up the exterior load bearing walls.  
Interior steel framing  
Slab on grade concrete floor systems.  
The roof is 4" LW concrete on 0.5" steel decking with 3" insulation

## Mechanical Overview

2-7000 Btu oil based boilers provide hot water  
16 DX-AHU with hot water heating coils provide air and ventilation to serve VAV terminal reheat units  
8-Condensing units provide the cooling capacity to several of the AHU



## Electrical Overview

4-Dry type transformers step down the voltage from 480-3 phase to 120/208-3 phase  
1-Dry type transformer steps down the voltage from 480-3 phase to 277/480-3 phase  
1-350 KW emergency generator @ 480/277V  
The lighting system consists of linear and compact fluorescent lights

Dan Hanley  
Mechanical Option

<http://www.engr.psu.edu/ae/thesis/portfolios/2009/dfh124/buildingabstract.htm>

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