



# George W. Hays PK-12 Public School

Cincinnati, OH

CINCINNATI PUBLIC SCHOOLS

## Project Design Team

Moody-Nolan, Inc.  
Architect & Civil Engineer

ThermalTech Engineering, Inc.  
MEP Engineer

GOP Limited  
Structural Engineer

Turner/DAG/TYS  
Construction Manager

## Project Overview

TOTAL AREA  
66,338 ft<sup>2</sup>

BUILDING FOOTPRINT  
35288 ft<sup>2</sup>

ABOVE GRADE STORIES  
Three

TOTAL BUILDING HEIGHT  
75 ft

CONSTRUCTION COSTS  
\$11,149,342

## Structural System

5 INCH SLAB ON GRADE WITH MESH AND POLYPROPYLENE FIBERS

ELEVATED FLOORING SYSTEM CONSISTS OF CONCRETE SLABS ON METAL DECKING

OUTSIDE WALLS ARE COMPOSED OF A BRICK VENEER WITH CEMENT MASONRY BLOCK BACK UP

EPDM MEMBRANE ROOF SYSTEM WITH RIGID INSULATION AND METAL ROOF DECK



## Electrical System

MAIN SWITCH BOARD: 2000A, 480Y/ 277V, 3P, 4W, 65000 A/C

PRIMARY SERVICE: 480Y/ 277V, 3P, 4 WIRE  
SECONDARY SERVICE: 208Y/ 120V, 3P, 4 WIRE

60 kW NATURAL GAS DRIVEN EMERGENCY GENERATOR

## Lighting System

MAIN LIGHTING SYSTEM IS 2' X 4' GRID MOUNTED FLUORESCENT TROFFERS

GYMNASIUM LIGHTING WITH 22" DIAMETER LOW BAY FLUORESCENT FIXTURES

## Mechanical System

THREE VAV AHU's WITH HEATING AND COOLING WATER COILS WITH AIR FLOW CAPACITIES OF 22,000; 18,000; & 12,000 CFM

EACH AHU HAS A TOTAL ENERGY WHEEL AND VFD

78 SINGLE DUCT OR SERIES FAN POWERED TERMINAL DEVICE WITH LOCAL HOT WATER RE-HEAT AND PLENUM RETURN

TWO RADIANT PANELS WITH CAPACITIES OF 853 & 1280 MBH

ONE 170 TON AIR COOLED CHILLER

TWO 1500 MBTU/HR NATURAL GAS BOILERS

# RODRICK A CROUSEY

[WWW.ARCH.PSU.EDU/THESIS/EPORTFOLIO/2007/PORTFOLIOS/RAC254/](http://WWW.ARCH.PSU.EDU/THESIS/EPORTFOLIO/2007/PORTFOLIOS/RAC254/)

MECHANICAL OPTION

