

Worcester North High School



Worcester, Massachusetts



Project Team:

Owner- Worcester Public Schools
Architect- Eric Twickler, Dept. of Public Works & Parks
Structural Engineer- Harvey & Tracy Associates, Inc.
MEP Engineer- RDK Engineers
Construction Manager- Gilbane Building Co.



General Building Data:

Building Name- North High School
Location- 150 Harrington Way
Worcester, MA 01604
Size- 195,000 square-foot
Levels- 4 Stories above grade
Construction Dates- 8.2009 – 9.2011
Delivery Method- CM at Risk
Cost- \$54 Million
Occupancy- 1,200 Students



Structural:

- + Structural Steel Frame, sizes W8 – W24
- + 5" Slab on Grade
- + Grade Beams on Concrete Piers
- + Truss System for Gymnasium Roof

Mechanical:

- + 2-Pipe Heating/Cooling Changeover System
- + 15-degree Outside Air Temp HVAC dead zone
- + Individual Classroom Energy Recovery Units
- + Variable Air Valve Boxes
- + Network-Interfaced HVAC Control System

Electrical:

- + 4000 Amp Service, 480/277 3-Phase 4-Wye Grid Connection
- + 400KW Emergency Generator, Diesel-fueled
- + Fluorescent Lighting System
- + Network-Interfaced energy monitoring and lighting control

Architecture:

The new Worcester North High school will replace an aging and over-populated facility that currently exists on the site. This 195,000 square foot building will serve over 1,200 students daily with numerous amenities including: two full size basketball courts, auditorium, soccer fields, cafeteria, laboratories, classrooms, a library and support spaces. The design team is utilizing a modern flair on the classic brick school house with brick veneers and metal louvered panels. Bright color schemes, rectilinear forms and varying roof heights portray a move into the educational future.

Thesis Site Access: www.personal.psu.edu/apt5004/t.html