



Landis Run Intermediate School

Lancaster, PA

Matthew Stevenson

Construction Management

Project Team

Owner: Manheim Township School District
Architect: Crabtree, Rohrbaugh & Associates
General Contractor: Warfel Construction
Mechanical Contractor: Frey Lutz
Electrical Contractor: MBR Construction Services
Plumbing Contractor: J.R. Reynolds
Low Voltage Contractor: Lobar Inc.

Structural System

Foundation: Continuous Footings w/ 3000 PSI Compressive Strength
Walls: Load Bearing Ivory (2000 PSI) & Standard (1500 PSI) Masonry
Decks: Concrete (3500 PSI) on Composite Metal Decking (40 KSI)
Classroom Live Load: 40 PSF
Partial Steel Frame in Area B on Column Piers
Total Load = DL + LL = 55 PSF + 40 PSF = 95PSF

Electrical/Lighting System

Capacity: 2500A
Distribution Panel 1: 120/208 V (Outlets)
Distribution Panel 2: 277/480V (Lighting & Other)
Redundancy: 130 KW Natural Gas Generator w/ UPS
Lighting: Majority are CFL & T8 Lamps

Building Statistics

Size: 210,000 SF
Height: 1 & 3 stories
Project Cost: \$28,400,000
Project Type: Educational
Contract Type: Multiple Prime
Duration: Approximately 20 Months
Purpose: Accommodation of Increased Demand
LEED Goal: Silver

Envelope System

Veneer: Four Layers of Decorative CMUs At Base of Wall w/ Brick Above
Anchor: Two Piece Anchor
Curtain Wall: Comprised of Various Glazing Types & Aluminum Mullions
Roof: Single-Ply White EPDM & TPO Roofing
Insulation: Spray Foam Insulation w/ R-Value of 7 At 1" Thick

Mech./Fire Protection System

System Type: Variable Air Valve
Number of AHUs: Nine
Fire Protection System: Wet
Water Supply: Six Large Precast Concrete Tanks

