# The School District of Philadelphia Administration Headquarters

**Shell and Core Renovations** 

440 North Broad Street, Philadelphia, PA

# **Electrical System**

- 13,200 Volt service
- Existing 1500 KVA substation
- Existing emergency service is a 150 kW diesel generator
- Two new 3000 KVA 480/277 volt substations

# **Structural System**

- Original structure is reinforced concrete with brick masonry exterior
- North and South additions: steel frame with concrete slab on metal deck
- Modifications accommodated the new atrium, shafts, stairs and elevators





## **General Building Data**

- Size: Gross Measured Area 848,000SF
   Building Footprint Area 161,000SF
- 8 Total Levels, 6 Stories Above Grade
- Dates of Construction: December 2003 July 2005
- Cost of Construction: \$25M

### **Project Team**

Owner: Archon Group

General Contractor/CM: Turner Construction Co.
Architect: Hooper Shiles Architects

MEP Engineers: CannonDesign

Site/Civil Engineers: Gladnick Wright Salameda Thorton Tomasetti Group

### **Architecture**

- Originally built in 1948 as a printing facility
- 2 major additions on the north (1960s) and on the south (1980s)
- A three story atrium with skylights is a new architectural highlight
- Interior construction: new toilet rooms, elevator shafts, and lobbies
- Exterior wall refurbishment: insulated glass windows, curtain wall systems, and re-glazing
- Roof: Insulated 3-ply modified bitumen system, modified for new roof penetrations

### **Mechanical System**

- Existing: two 15-ton and one 10-ton packaged rooftop unit, electrical cabinet heaters, unit heaters, and strip heaters provide local heat
- New AC Units (with electric heating coil):
   Seven 80-ton units, five 90-ton units, five 100-ton units
- New exhaust for toilet rooms, elevator machine rooms, and electrical closets
- Four exhaust fans for the atrium provide 20,000cfm each for smoke purge

