

Jonathan Fisher CM

Westinghouse Electric Co. Building 4

Cranberry, Pennsylvania



Owner: The Ferchill Group, Chicago IL
Architect: LLI/IKM An Engineering & Architecture Joint Venture
Construction Manager: Turner Construction Company
Delivery Method: Design-Bid-Build
Stories Above Grade: 3 Stories
Cost: Private Information
Size: 121,905 SF



Architecture

- The building façade consists of a combination aluminum, insulated spandrel glass, and masonry brick systems
- Building layout is intended to maximize open floor space
- Building contains two stairwells, both insulated for 1 hr fire protection
- Each of the 3 floors contains 38,812 SF of usable office space



Structure

- **Substructure:** 60 Separate footings will be cast in place using 3,000 psi concrete
- **Floors:** The slab-on-grade and slabs in deck for floors 2 and 3 shall be poured using 4,000 psi concrete
- **Superstructure:** Structural steel with wide flange shape with a minimum yield strength of 50,000 psi
- **Roof:** EPDM Membrane Roofing shall be used



Mechanical

- **Air Handlers:** 2 rooftop air handlers shall deliver a maximum of 105,600 CFM combined
- **Air Conditioning:** 2 rooftop evaporative cooling units shall be used to cool the building
- **Sprinkler System:** A standpipe sprinkler system shall be installed and will utilize a basement fire pump to attain proper sprinkler head pressure



Construction

- Project received its Certificate of Occupancy 3 months early
- **Project Duration:** 13 months
- Site contains several nice fountains for occupant enjoyment
- Project insurance is OCIP



<http://www.engr.psu.edu/ae/thesis/portfolios/2011/jmf5131/index.html>