RIVER VUE APARTMENTS
PITTSBURGH, PENNSYLVANIA

PROJECT TEAM
- Owner: River Vue Associates, LP
- General Contractor & CM: Turner
- Architects: Design 4 Studio, Inc. / IDG LLP
- Structural Engineer: Whitney, Bailey, Cox & Magnani, Inc.
- MEP Engineer: Claitman Engineering Associates Inc.

BUILDING STATISTICS
- Dates of Construction: June 2011-April 2012
- Project Delivery Method: Design-Bid-Build
- Cost: $28 Million
- Size: 16 stories, 295,000 square feet

ARCHITECTURE
- 16 story structure curved-cornered, aluminum and glass façade with white marble accents
- Units include multiple bedrooms, bathroom, kitchen, and living space with retail space on the ground floor.
- Two levels of valet parking for residents
- Spectacular views of city landmarks and access to Point State Park

LIGHTING/ELECTRICAL
- Day lighting achieved through new bronze glazing and balconies on upper levels
- LED bollards and up-lights used for exterior accents
- Three Phase, 120/208 V electrical system
- Four main transformers serve 2000A switchboard which distributes power to 400, 225, & 100A panel boards throughout the units
- Separate emergency and fire alarm electric system

MECHANICAL
- Several simple occupancy zones including apartment units, lobby/retail, parking, and corridors for energy modeling
- Two 200 GPM boilers, a 1024 GPM plate heat exchanger and a single air handling unit with enthalpy wheel serve building
- All existing duct, registers, grilles, and piping to be replaced in renovation
- Natural ventilation achieved through operable windows

STRUCTURE
- Steel frame supporting metal decking with lightweight concrete slab topping
- Double curtain wall system comprised of aluminum panels and glazing
- Additional bracing to be installed between column lines on ground floor

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http://www.engr.psu.edu/ae/thesis/portfolios/2012/LQP5013/index.html

FALL 2011
ADVISER: STEPHEN TREADO