**General Information**

**Function:** Hospital/Patient Tower  
**Size:** 236,000 SF  
**Height:** 175' (12 stories above grade + 1 story below)  
**Construction:** Summer 2010 - Fall 2012  
**Construction Cost:** $76 million  
**Delivery Method:** Design-Bid-Build

**Project Team**

**Owner:** Not Released  
**General Contractor:** Turner Construction  
**Architect:** Wilmot/Sanz Architects  
**Structural:** Cagley & Associates  
**MEP:** RMF Engineering, INC.  
**Civil Engineer:** Dewberry & Davis LLC

**SUSTAINABILITY**

- Native plants, water cisterns and a green roof surround the building  
- Achieved LEED Silver Certification  
- Use of low-VOC paints, building materials and furniture within the patient rooms  
- Low flow plumbing fixtures and sensors

**ARCHITECTURE**

- Facade largely composed of a smooth finished concrete panel and a thin brick faced concrete panel with an aluminum glass curtain wall system  
- First two levels are composed entirely of the aluminum curtain wall system with a large two-story rotunda  
- 174 all-private intensive-care and medical/surgical patient rooms

**CONSTRUCTION**

- Due to the connection with the existing part of the hospital, construction must not cause any delays with the existing structure  
- Means of weather proofing the connected areas  
- Coordination between the construction crews and the hospital staff

**MEP SYSTEMS**

**Mechanical:**
- Four 50,000 CFM air handling units  
- Three hot water heat exchangers  
- Constant air volume (CAV) units distribute the air

**Electrical:**
- Two main feeds enter at 34.5 kV  
- Two 5,000 kVA transformers feed a double-ended main substation  
- Two parallel 2 MW backup generators  
- Mechanical and lighting loads are fed at 480/277, recepticle and other loads at 208/120

**Lighting:**
- Lighting fixtures use 277 V  
- Combination of linear T8’s and compact fluorescents  
- Facade consists of LED fixtures

http://www.engr.psu.edu/ae/thesis/portfolios/2012/NJM5071