

Primary Project Team

Architect: RMJM Hillier and HOK in joint venture

MEP: Syska Hennessay Group, Inc. Structure: O'Donnell & Naccarato, Inc. Civil: French & Parrello Associates

Medical Equipment: RTKL Associates Inc.
Co-gen Plant: NRG Energy Inc.
GC: Turner Construction

Architecture

- 269 single patient rooms
- State of the art laboratories, imaging rooms, and operating rooms
- Glass curtain wall on south side
- Brick curtain wall on remaining sides
- Two story concourse entrance
- Horizontal sun shades



Electrical

UMCP is supplied with electricity from the Central Utility Plant which receives grid power and generates its own. Power is distributed through the building through 480 volt risers and transformed down to required voltages on each floor.

Project Information

Building Name: University Medical Center

of Princeton Replacement

Hospital

Location: Plainsboro, NJ

Building Occupant: University Medical Center

of Princeton

Size: 639,000 square feet

Stories: 6+1

Finish Date: March 2012

Cost: \$315 Million

Delivery Type: Design-Bid-Build



courtesy of Princeton Healthcare System

Mechanical

- 10 AHUs with 100% outside air to service medical areas
- 7 other AHUs to service rest of building
- 1 MUA to replenish exhausted kitchen air
- The building is provided with 120 psi steam from a central utility plant on site, which is reduced to usable pressures
- The central utility plant also supplies chilled water for cooling
- All AHU use HEPA filters to provide the cleanest air possible

Structural

UMCP has a steel structure with concrete floors on metal decking The building is supported on concrete footings while the cast in place basement walls are supported by a strip footing. Particular rooms such as the Linear Accelerator have special design requirements to support the three foot thick lead entraced block and the 9,000 pound door. The building is designed to withstand wind loads of 95 mph and seismic loads of class C.