

UMHHC Children's and Women's Hospital Replacement Project



Project Description

The key goal for the C. S. Mott Children's Hospital and Von Voigtlander Women's Hospital is to provide a new, state-of-the-art inpatient and outpatient facility for children and women. The 1,100,000 gross square foot facility consists of a clinic building of 9 floors and an inpatient building of 12 floors plus a helipad on the easternmost roof. The building includes inpatient space, clinic and office space, and programmed shelled space. It is connected to the existing Taubman Health Center via a link as well as an elevated walkway to the Simpson Parking Structure. Site Improvements include utility reconfigurations, roadway reconfigurations, landscaping, steam tunnel and ductbank extensions, and storm water detention.

Energy Efficiency Measures

The Children's and Women's design is focused on obtaining LEED certification. Other Energy Efficiency Measures include:

- Designed to ASHRAE Standard 90.1 including building envelop and glazing efficiencies.
- Energy modeling was performed to determine optimum system selections with maximum efficiencies.
- Energy efficient equipment is provided such as chillers, pumps and fans.
- Reduction of lighting power densities through the use of energy efficient compact fluorescent and LED fixtures.
- Reduction of lighting power usage through occupancy sensors throughout the building and daylight harvesting controls for the main lobbies and clinic corridors.
- Sophisticated Building Management System controls to optimize fan speeds and system performance.

Other Sustainability Features

- Vegetative roof to reduce storm water run-off, reduce heat island effect, and create a natural habitat.
- Storm water infrastructure (collection) and management to minimize run-off and avoid impact to neighboring Nichols Arboretum.
- Landscape Plan uses native plants and plant varieties acclimated to the Ann Arbor climate zone.
- Landscaping will be irrigated by 100% non-potable water collected in the underground storage basins.
- Use of Best Management Practices and Erosion and Sedimentation control measures during construction to minimize and prevent pollution, soil erosion, waterway sedimentation, and airborne dust generation.
- Recycling approximately 75% of construction waste.
- Building materials utilizing a high amount of recycled content.
- Very low amount of volatile organic compounds (VOC) utilized in building components.

Project Data

- Budget: \$754 M
- Schedule: Completion scheduled for Spring 2012
- Square Feet: 1,100,000 gsf