

## School of Nursing New Building



### Project Description

The School of Nursing is proposing to construct a new building of approximately 78,000 gross square feet to accommodate its instructional space needs, including a clinical learning center with simulation and skill labs, and simulated patient suites in an environment that will foster collaboration and community. The new building will include space for a small number of faculty offices and limited administrative functions. The proposed site is located near the existing location just north of the North Ingalls Building. With the growth in academic and research programs and increases in student enrollment, the School of Nursing anticipates adding approximately 40 faculty and staff members in the next five to ten years. Approximately 125 parking spaces will be lost due to this project.

### Energy Efficiency Measures

- The building's design and systems include a number of energy efficient features that allow for an estimated 27% energy savings compared with a code energy compliant building as defined in ASHRAE 90.1 - Appendix G
- Optimized below grade wall, above grade wall and roof insulation to improve the building envelope performance
- Lighting power density is 30% below ASHRAE 90.1 2007 allowable, calculated by the whole building method
- Lighting reduction through the use of occupancy sensors and photocells
- High Efficiency Chillers to reduce energy use
- High Efficiency Boilers to reduce energy use
- Chilled Beam Cooling System to reduce supply airflow requirements
- Energy Recovery to exchange heat between the outside air and exhaust air streams
- Variable air volume supply air system for some spaces
- Water side economizer to reduce hours of operation for water cooled chillers

### Other Sustainability Features

- This project is LEED® Gold certified and achieved 63 points under the LEED for New Construction v2009 rating system.
- Low-flow plumbing fixtures aim to reduce potable water usage by 35% when compared to the 2009 Michigan Plumbing Code
- Native/adaptive vegetation and a centrally controlled irrigation management system designed to reduce potable water consumption by 67%.
- 35% of the building materials, by value manufactured using recycled materials
- 89% of construction waste diverted from the landfill
- 24% of the building materials, by value, were manufactured and extracted within 500 miles of the project site
- 97% of the total wood-based building materials are certified by the Forest Stewardship Council (FSC)
- All adhesive and sealant products, paints and coatings, flooring systems and wood and agrifiber products used inside the building are low VOC
- Natural daylight is maximized in interior spaces to reduce electric lighting needs and to provide occupants with a connection to the outdoors
- 2,320 square feet of green vegetated roof

