

Michigan Stadium Renovation and Expansion Project



Project Description

Approximately 400,000 gross square feet of new facilities are proposed in five structures, and approximately 50,000 gross square feet of existing facilities will be renovated. Two small buildings at the north end of the stadium grounds and one small building at the south end will house restrooms, concessions, and support functions such as first-aid, police and security, and the will-call ticket office. The two main sideline buildings are proposed to accommodate bench seats, media facilities, accessible seats, restrooms, concession areas, an additional concourse, 83 suites, and approximately 3,200 indoor and outdoor club seats. The project will also include widening of the aisles and added handrails in the existing bowl. The renovation will address needed infrastructure upgrades related to site work, utilities, restrooms, concessions, and various mechanical and electrical systems. The capacity of the stadium will be approximately 108,000 following the completion of the project. The scope of this project includes the architectural, mechanical, and electrical work necessary to accomplish these improvements.

Energy Efficiency Measures

- Designed to meet energy efficiency and performance required by ASHRAE/IESNA 90.1-1999 with the exception of the glazing at suites and club areas
- Air handling units on occupancy schedule allowing lower winter set point for heating and higher summer set point for cooling when the building is unoccupied
- Individual controls for air handling units allow heating and cooling to specific areas as needed
- Automatic sensors at lavatories control water flow
- Tempered water is provided to lavatories minimizing the use of hot water
- Thermostat controls in each suite allows for individual control

Other Sustainability Features

- Site sediment and erosion control designed to best management practices
- Stadium is located on bus routes
- No new parking is provided on site
- No net increase in storm water runoff
- ENERGY STAR roof for all new roof surfaces
- Reduction in the use of municipally provided portable water through the use of waterless urinals and low flow fixtures
- Zero use of CFC-Based refrigerants
- Use regional and local material where possible, (e.g. brick)
- Ventilation meets ASHRAE 62-1999 Indoor Air Quality requirements
- Low-VOC materials, (e.g. adhesives, sealants, paints, coatings, and carpet)
- Building materials have been extracted and/or harvested as well as manufactured, within 500 miles of the project site, e.g. brick
- Operable windows and lighting controls provided for occupied spaces on building perimeter
- Complies with ASHRAE Standard 55-1992 for thermal control standards
- Daylighting provided to all interior spaces thereby reducing the use of electrical lights

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Project Data

- Budget: \$226 M
- Schedule: Completion Scheduled for Summer 2010
- Square Feet: 50,000 gross sq. ft. renovation
400,000 gross sq. ft. addition

Substantially Complete: June 2010

- Project Status: Substantial Completion
- Design Complete: 100%
- Construction Complete: 100%