

Crisler Arena Expansion



Project Description

Built in 1967, Crisler Arena is a multi-purpose venue used for academic, athletic, and entertainment events. In October 2010, the Board of Regents approved a renovation of the arena's core infrastructure and replacement of spectator seating, with a seating capacity of

approximately 12,800. The Department of Intercollegiate Athletics now proposes to further renovate and expand Crisler Arena. New construction of approximately 63,000 gross square feet will create new spectator entrances, retail spaces, ticketing areas and a private club space. Renovation of approximately 54,000 gross square feet will accommodate accessible seats, improve circulation and egress, increase the number of restrooms and concession areas, and add other fan amenities. The scope of this project includes the architectural, mechanical, and electrical work necessary to accomplish these improvements.

LEED Certification: This project will seek LEED Silver-level Certification

Energy Efficiency Measures

The Crisler Arena Expansion design focuses on maximizing energy efficiency and incorporates numerous energy conservation measures, including:

- Maximum insulation in foundation walls, exterior walls, under slab, and roof assemblies
- Use of increased inspections, including infrared scans during construction to identify missing insulation, gaps in the enclosure, and other wall/roof assembly deficiencies
- Energy efficient windows/glazing for increased thermal performance
- High efficiency lighting throughout with daylight sensors for spaces with fenestration
- Occupancy sensors to control lighting
- Demand control ventilation to reduce mechanical loads to low occupancy and empty spaces
- High efficiency air cooled chiller
- Increase thermostat deadbands (the gap between the heating setpoint and cooling setpoint during which no conditioning is provided)
- Increased exhaust air energy recovery
- Automatic static pressure reset

Other Sustainability Features

- Use of an Erosion and Sedimentation Control Plan during construction to reduce pollution from construction by controlling soil erosion, waterway sedimentation, and airborne dust generation
- Reuse of existing Crisler Arena (in lieu of new facility on green-field site)
- Crisler Arena sited on public and UM bus routes, encouraging use of public transit
- No new parking provided on-site (to reduce pollution and land development impacts)
- Use of water conserving plumbing fixtures, including low-flow shower heads low-flow lavatories, and waterless urinals
- Energy efficient transformers
- Use of select sustainable materials (e.g., steel structure, terrazzo flooring)
- Use of low-VOC materials (e.g., carpets, paints)
- Use of regional and local materials where possible (e.g., limestone, brick)