

Intramural Sports Building Renovation



Project Description

Improvements to the Intramural Sports Building that will update infrastructure and address contemporary programmatic needs for fitness and recreational spaces. The project will reconfigure existing space within the building to provide larger areas for cardio and weight training; new group exercise rooms; improved racquetball courts, locker rooms, and staff offices; and spaces for social interaction. Infrastructure upgrades will include accessibility improvements, plumbing and wired and wireless networking upgrades, exterior window replacement, masonry repairs, lighting improvements, and gymnasium floor replacement.

Energy Efficiency Measures

- The building's design and systems include a number of energy efficient features that allow for an estimated 30% energy savings compared with an energy code compliant building as defined in ASHRAE 90.1-2007 Appendix G
- High-performance glazing systems for increased thermal performance
- Enthalpy Wheel allowing return air to condition outside air to reduce heating/cooling load in the air handling unit
- HVAC controls designed to prevent simultaneous heating and cooling; controls temperature using occupancy sensors
- Increase thermostat "deadband" to limit equipment cycling
- Variable air volume HVAC systems, including Laundry and Maintenance Shop
- Ventilation of mechanical room with relief air AHU-1
- High efficiency chiller
- Energy Efficient Lighting including new gymnasium lighting and LED lighting
- Occupancy sensors to turn off lights when spaces are unoccupied

Other Sustainability Features

- City-owned on-site Bike Share rack on site to promote alternative transportation
- Close proximity to basic services such as banks, theaters and restaurants to encourage building occupants to walk instead of drive
- Project site located near public and U-M bus routes to encourage use of public transit
- Use of native and adaptive plantings that do not require irrigation
- Stormwater drain lines to be repaired and rerouted to improve stormwater management
- A 20% water consumption savings beyond Michigan Plumbing Code is anticipated; savings will be obtained through use of dual flush water closets, 1/8 gallon flush urinals, and automatic sensor operated faucets
- Building Reuse of approximately 75% of the existing walls, floors, and roof
- Construction waste to be diverted from landfills when possible
- Low-VOC paints, adhesives and sealants
- Graphics to provide an educational tour of the building's sustainable features