

## Ross Athletic Campus Athletics South Competition and Performance Project



### Project Description

This project will construct approximately 280,000 gross square feet of space to become the future home for men's and women's track and field, cross country, lacrosse, and women's rowing. The project will include an indoor and outdoor track competition venue for 2,000 and 500 spectators respectively. In addition, a lacrosse stadium will be built on the site that will accommodate 2,000 spectators. A consolidated performance team center is more cost-effective to provide specialized team spaces and shared resources for strength and conditioning, athletic medicine, a performance lab, meeting space, and locker rooms. When completed, the development will allow hosting of home, regional, and national competitions, and use by students participating in recreational sports.

### Energy Efficiency Measures

Sports Performance, Indoor Track, and Lacrosse Buildings:

- The building design and systems include a number of energy efficient features that will 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 assemblies for increased thermal performance
- Increased insulation values in roof assemblies for improved thermal performance
- Increased insulation values in wall assemblies for improved thermal performance
- Demand control ventilation to control ventilation air brought into the building
- Energy efficient hot water heating boilers
- Chiller with heat recovery
- Variable speed drives on the cooling tower fans
- Destratification fans in large spaces
- Enthalpy economizer in lieu of dry bulb economizer
- Exhaust air recovery device with highest efficiency
- Increase the thermostat dead band
- Energy efficient lighting
- Reduction in lighting power density

### Other Sustainability Features

Sports Performance, Indoor Track, and Lacrosse Buildings:

- The project is LEED® certified to the Silver level and achieved 53 points under the LEED for New Construction v2009 rating system.
- A 30% water consumption savings beyond Michigan Plumbing Code is anticipated; savings will be obtained through the use of low flow bathroom fixtures
- Construction waste to be diverted from landfills when possible
- Use of regional materials when possible
- Use of recycled materials when possible
- Low-VOC paints, flooring, adhesives and sealants