## Richard L. Postma Family Clubhouse

### Project Description

Originally constructed in 1950, the clubhouse at the University of Michigan Golf Course is now outdated and no longer meets the university's needs. The replacement facility will be approximately 23,000 gross square feet located on the same site as the existing building and will optimize operational functions, increase energy efficiency, and include modern spacious banquet facilities for the use of the entire university community. Site work will include grade changes, adjustments to golf course holes one and ten, repair of the concrete creek lining, new structure for the west side crossing of the creek, and relocated parking.

### Energy Efficiency Measures

- Building envelope designed to be 4% more efficient than required by ASHRAE 90.1-2007
- High performance curtain wall window assemblies increase thermal performance of the building envelope
- In-floor radiant heating maintains building temperatures during unoccupied periods without operation of packaged rooftop units
- High-efficiency condensing boilers with turndown ratios of 5:1
- Energy efficient LED lighting
- Occupancy sensors turn off lights when spaces are unoccupied.
- Commercial dishwashing units recirculate exhaust air to eliminate exhaust fan operation and conditioning of make-up air
- Variable speed compressors allow for peak efficiency in low load conditions and avoid short cycling of equipment

### Other Sustainability Features

- Built on a previously developed site to reduce impact on environment
- Project site located near public and U-M bus routes to encourage use of public transit
- Impervious surface area reduction to reduce stormwater runoff
- 649 square feet of green vegetated roof
- A 20% water consumption savings beyond Michigan Plumbing Code is anticipated through the use of low flow plumbing fixtures
- Bottle refill station provided on electric water cooler to promote use of reusable water bottles
- Sorting and recycling of demolition and construction waste where possible
- Use of low-VOC flooring, adhesives and sealants where possible
- Use of recycled and regional materials where possible