

## Towsley Center for Children



### Project Description

The new Center will replace the existing facility with an approximately 22,000 gross square foot building on the same site. The facility will have two stories above a partial basement, and include an option for future expansion space. Approximately 14,000 net square feet will provide capacity for 142 children within the new Towsley Center, approximately double its current capacity.

### Energy Efficiency Measures

The Towsley Center design focused on maximizing energy efficiency and incorporates numerous energy conservation measures, including:

- Maximum insulation in foundation walls, exterior walls, and roof assemblies
- Energy efficient windows/glazing for increased thermal performance
- Reduction of lighting levels through use of occupancy sensors
- Controls to shut down air flow to specific spaces when they are unoccupied
- Use of occupancy sensors to reset space temperatures to allow wider temperature swings when rooms are unoccupied
- Increase thermostat deadbands (the gap between the heating setpoint and cooling setpoint during which no conditioning is provided)
- Use of controls to optimize fan speeds supplying air to VAV (variable air volume) boxes

### 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
- Towsley Center for Children is constructed on the site of the original center in lieu of a greenfield site
- Center is sited on public and UM bus routes, encouraging use of public transit
- Original area of the site designated and developed for parking was significantly reduced (to lessen pollution and land development impacts)
- Reclaimed selected elements from the original center for re-use as interior windows and millwork accents.
- Use of water conserving plumbing fixtures.
- Use of select sustainable materials (eg synthetic slate roofing ,PVC-free flooring tile and carpets)
- Use of low-VOC materials (eg carpets, paints)
- Use of regional and local materials where possible (eg, brick)
- Water-efficient landscaping

### Project Data

- Budget: \$8M
- Schedule: Completion scheduled for Fall 2009
- Square Feet: 22,000 gsf