

Cost:

Construction: \$21,000,000

MEPT Construction: \$5,900,000

Owner:

UI Community Credit Union

North Liberty, Iowa

Dick Noble, Senior Vice President

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Team:

Principal in Charge:

Dwight Schumm, PE, LEED AP BD+C

Project Manager:

Marc Foster, PE, LC

Mechanical Engineer:

Kelly Harrer, PE, LEED AP

Electrical Engineer:

Marc Foster, PE, LC

Architect:

Neumann Monson Architects

Iowa City, Iowa

Dwight Dobberstein, AIA, LEED AP

319.338.7878

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Project History

The facility is the new 105,000 square foot corporate headquarters for the University of Iowa Community Credit Union. The building is ideally located in North Liberty Iowa off of interstate 380 between Iowa City and Cedar Rapids. The building contains a branch office with drive through, corporate offices, and customer care call center requiring full emergency generator backup for the 3rd floor.

Mechanical Design

The HVAC central plant consists of three Trane rotary chillers piped in a cascading arrangement connected to a horizontal ground heat exchanger. System distribution is achieved utilizing an 18" raised floor plenum with a combination of displacement floor diffusers and under floor fan powered boxes. The adjustable floor diffusers in the open office area provide individual temperature control at each desk.

Electrical Design

Task lighting integrated with the modular furniture combined with energy-efficient lighting and day lighting controls minimized the lighting watts per square foot and allowed for individual workstation control of light levels. The facility's tier 3 data center is backed up with two 80 KVA UPS units and the buildings 750 KW diesel generator. The generator also backs up all power, lighting, and HVAC for the 3rd floor.

Sustainability Achievements

The completed building will use 50% less energy than a code compliant building. The water conservation features will save over 30% of the water of a standard building.