

Mutual of Omaha

Engineering Technologies, Inc. has been working with Mutual of Omaha to improve the efficiency of their chiller plant. The first part of the improvements included complete replacement of two 800-ton chillers serving a 6,000 ton chilled water system. This also included rework of the loop 'A' pumping system to a variable flow system and design of a refrigerant monitoring and ventilation system for a multi-refrigerant central plant. Current work includes the replacement of an 800-ton chiller with a 1200-ton machine, addition of a plate and frame heat exchanger for "free cooling" and a feasibility study to add a new 1250 kW generator to serve the Data Center's electrical and cooling loads. In addition to lower maintenance costs, better utilization of space and improved comfort for occupants, these projects are expected to have an estimated energy savings of over \$115,000 annually through the use of newer engineering technologies and approaches.



Mutual of Omaha Chiller Plant, Omaha, Nebraska

Platteview High School

This existing high school project consist of approximately 48,300 sf. of additions, and 10,000 sf. of renovation. The additions include a new performing arts auditorium, a gymnasium, a large commons area and a locker area with weight room. Rooftop air handling units with variable frequency drives and energy recovery wheels made an efficient method of heating and cooling these large volume spaces. The auditorium, with its quiet air handling system and its theatrical lighting and sound system is a wonderful environment for performances.



*Platteview High School Auditorium
Springfield, Nebraska*

White Line Lofts

An existing 7-story Tire Warehouse facility in downtown Des Moines is being converted into high end condominium units. With the addition of 2 levels of housing, the completely remodelled 9-story high rise facility will have an eye-catching contemporary fully glazed exterior. When completed this facility will house sixty-six condos ranging from under 1,000 sf. in size to over \$1 million penthouse units.

Water source heat pumps will provide a comfortable environment while saving owners in utility costs. Heated below grade parking will be an added convenience. State-of-the-art security, telecommunication and lighting systems along with backup power generation will make this facility an excellent choice for downtown living, a trend catching on in cities around the country.



White Line Lofts Existing Facility, Des Moines, Iowa



*White Line Lofts, Des Moines, Iowa
(Rendering Provided by In\Vision Architecture)*

Norfolk Maintenance Facility

The new 16,000 sf. maintenance facility for the Army National Guard is located just south of Norfolk adjacent to the airport. The facility will be used for maintenance of military vehicles, including humvees, transport vehicles and tanks. The office area of the building is served by natural gas furnaces and condensing units and an infrared heating system serves all the repair bays. All lighting was specified at 277 volts and designed utilizing "Green Building" standards. Due to adjacency with the airport, exterior lighting was designed in accordance with FAA guidelines. A fire station was also added to the south portion of the building.



Norfolk Maintenance Facility Interior, Norfolk, Nebraska



Norfolk Maintenance Facility Exterior, Norfolk, Nebraska

West Park Mall - Old Navy

Engineering Technologies, Inc. has completed design of a new Old Navy Store in West Park Mall in Cape Girardeau, Missouri. This project included renovation of existing mall areas (restaurant, corridor and miscellaneous tenant spaces) and a 1,200 sf. addition to achieve an over 12,000 sf. prototypical mall space for Old Navy.



Old Navy Interior

A Few Recently Awarded Projects:

- ◆ Omaha Standard New Production & Office Building
Council Bluffs, Iowa
- ◆ South Tama New Elementary School
Tama, Iowa
- ◆ WinneVegas Casino Remodel and New Hotel
Sloan, Iowa
- ◆ Presbyterian Manor of Mid America Assisted Living and Skilled Nursing Additions
Salina, Kansas
- ◆ Benchmark Biolabs Facility Addition
Lincoln, Nebraska

A Few Projects Currently in Design:

- ◆ Westfield Shopping Town Remodel & Food Court Addition
Lincoln, Nebraska
- ◆ Joint Forces Headquarters Facility
Lincoln, Nebraska
- ◆ Linweld Sales and Warehouse Building
Red Oak, Iowa
- ◆ Ridge Medical Plaza
Lincoln, Nebraska
- ◆ East High School Gym & Music Room Addition
Des Moines, Iowa

A Few Recently Completed Projects:

- ◆ Midtown Community Mental Health Center
Lincoln, Nebraska
- ◆ Steve & Barry's University Sportswear
Elyria, Ohio
- ◆ Allen K-12 School
Allen, Nebraska
- ◆ Glen Haven Assisting Living Facility
Glenwood, Iowa
- ◆ Nebraska State Historical Museum Boiler Replacement
Lincoln, Nebraska



Old Navy Addition Exterior

LEED Certification

ETI has staff that is LEED Accredited to assist you on your "Green Project" needs. We have experience in these types of projects and are currently working on projects that are pursuing LEED Certification. The Leadership in Energy and Environmental Design (LEED) Green Building Rating System is a national, building rating system designed to accelerate the development and implementation of green building practices. Green building design incorporates energy efficiency and environmental sustainability into the construction of a project.

Lincoln Community Foundation

This project involved updating the building mechanical, HVAC and electrical systems. Based on budget constraints, the replacement of systems will be completed in phases. The recently completed phase included remodeling the first floor and commons areas including the elevator lobby and restrooms on the second floor.

Since the main duct system was in place and there was no central hot water distribution system, the most cost effective system for phased construction was a dual duct VAV system. A DDC system was installed and will be expanded as the upper floors are remodeled.

New energy efficient fluorescent lighting was provided for interior spaces and new HID metal halide lighting was provided around the perimeter of the building. Special systems included a new fire alarm system, a NO₂ and Carbon Monoxide gas detection system, and a computer networking system.



Lincoln Community Foundation Reception Area
Lincoln, Nebraska

Visit us On-line at www.eti-engineers.com

Mailing Address

Postage

Engineering
Technologies, Inc.
206 S. 13th Street, #800
Lincoln, NE 68508
(402) 476-1273