

PROJECTS



ERWIN TECHNICAL CENTER



PROJECT SPECS:

- **Project Scope:** Renovation of 190,000 sq. ft. of existing building, which was built in the 1940's, and had been remodeled on many different levels. The Phase 1 summer shut-down included 95,000 square feet of the building, and Phase II includes an additional 95,000 sq. ft.
- **Schedule:** Phase I: June 14 – August 14 (95,000 sq. ft.); Phase II: August 23, 2010 -May 2011 (95,000 sq. ft.)
- **Systems:** Four air handlers, 99 VAVs, a complete chilled water system including two, 197-ton chillers, four pumps, one heat exchanger and a glycol system with 10 ice storage tanks; all complete with ductwork and exhaust.
- **Installed Mechanical Value:** \$1.5 million
- **General Contractor:** Vogel Bros. Building Company

CHALLENGES MET BY PROJECT TEAM:

- Renovation occurred during the school's operating hours.
- Achieved the extremely fast-track construction schedule of seven weeks for Phase I.
- Completed demolition of the existing mechanical systems in seven calendar days.
- Fabricated, installed and pressure tested 85,000 pounds of metal duct, 99 VAV's and 600 grilles in 12 calendar days.
- Met Phase I schedule with 2, 12-hour shifts with over 40 men on each shift, 7 days a week.
- Provided temporary chiller to keep existing equipment operational during the renovation.
- Cut out door jambs and cut holes in walls to reach each mechanical room for replacement of the four, large, built-up air handling units. We also designed and built a special A-Frame to set the fan section on top.
- Installed new ice storage tanks, chillers, pumps and piped new air handlers within the project schedule.
- The new cooling system was installed by tying into the existing piping, all while maintaining cooling on the first floor, which was occupied by the facility department and students.
- Ice storage system was commissioned without a hitch.
- When the sprinkler contractor was falling behind, Energy Air's piping crew supplemented manpower to help meet the schedule.