

Comprehensive planning overcomes design, schedule and space restrictions

York College Sports Facility
York, PA



THE CHALLENGE:

Install an HVAC system sophisticated enough to support varied uses and frequent temperature changes. Install in a restricted area while meeting an early heating requirement.

THE SOLUTION:

Planning identified the process necessary to meet the early heat requirement and overcome space constraints.

York College's 240,000 sq. ft. sports facility requires a sophisticated HVAC system with 700 tons of cooling to support the various uses and large changes in cooling and heating for events. The mechanical room houses five large air handling units, two pool pack heat recovery units for humidity control of the natatorium, boilers, chillers and a cooling tower. The architectural firm's design created unusual HVAC time and space requirements. Specialty flooring required the central HVAC system to be operational for heat five months before project completion.

The firm also designed a narrow penthouse mechanical room located on the 3rd floor and extending the length of the facility's axis.

A two-month preplanning process included the foreman, project manager and General Contractor. The team created a detailed Man Loaded schedule and a sequence of activities for phased startup by priority. This kept the man power loading to a manageable, productive number while meeting the required goal for heat. Productivity measurement on quantities installed bases was set up to feedback on progress.

The mechanical room space constraints for rigging in large equipment and running ductwork and piping was equally challenging. Special emphasis on the coordination drawings and check reviews helped overcome constraints and maximize the prefabrication of piping and fabrication of ductwork.

THE RESULTS:

The goal for five month early heating was completed on schedule. H.B. McClure came within 1% of reaching the productivity target.

PROJECT TYPE:

Plan/Spec

GOAL:

Install complex, aesthetically pleasing HVAC system that accommodates multiple uses and temperature changes

EQUIPMENT USED:

- Air Handling Units
- Pool Pack Heat Recovery Units
- Boilers
- Chillers
- Cooling Tower

CONTACT:

**H.B. McClure Commercial
Construction Sales Team**

600 South 17th Street
Harrisburg, PA 17104
717.232.4328

www.hbmccclure.com