

Maine Township High Schools Master Plan Implementation

Project Highlights and Results

- Comprehensive mechanical, electrical, and plumbing master plan for three high schools and the district's administration building.
- Completed in conjunction with design of replacement and upgrade of central plants at two of the district's three high schools as well as replacement of the major HVAC systems serving the Administration Building.

Project Background

Owner:	Maine Township High School District 207
Location:	Park Ridge-Des Plaines, IL
Team/Team Lead:	Steve Maze, Bob St. Mary
Elara Role:	MEP Engineer
Type:	Energy Master Plan
Construction Cost:	NA

Project Overview

Building Type:	K-12
Building Attributes:	1,440,137 SF; Classrooms, Labs, Offices, Athletic Facilities
Initial Construction:	1929 Maine East HS; 1959 Maine West HS; 1964 Maine South HS
MEPFPIT Systems:	Steam, Chilled Water, Hot Water, DHW, AHUs, Unit Ventilators, Pool Heating, Pneumatic and Digital Controls

Innovation

- Even though there have been several modifications to the existing MEP equipment and systems at each of the three high schools and administration building over the years, including building additions and major renovations; Elara has successfully identified opportunities to improve the operation and energy efficiency of each facility's MEPFP systems.
- Upon detailed review of each system and equipment components, alternatives have been identified, evaluated and prioritized project recommendations provided to address the critical needs of each facility and represent the best value for each project.
- Elara's master plan identifies the complete economics of each project, including estimated construction costs, utility cost savings and available incentive monies for the implementation of each recommended project.
 - Along with resolving the critical needs of each building, the Master Plan facilitates the prioritization process and the identification of logical phasing all the way through to project completion.

