

Glen Ellyn Public Library

Project Highlights and Results

- Major HVAC Systems Master Plan to improve occupant comfort, replace outdated equipment, and reduce the total cost of ownership
- Three prioritization categories addressed the most critical needs, preserved existing equipment, and identified future considerations
- Design engineer for phased interior renovations in multiple areas

Project Background

Owner:	Glen Ellyn Public Library
Location:	Glen Ellyn, IL
Team/Team Lead:	Steve Maze, Mark Rockwood, Matt Swanson
Elara Role:	MEPFP Design
Type:	Energy Retrofit & Renovation
Construction Cost:	\$500,000 + Renovations

Project Overview

Building Type:	Municipal Library
Building Attributes:	2 Stories, 70,000 SF
Initial Construction:	1995
MEPFPIT Systems:	VAV AHUs, Boiler Plant, DX Cooling, DDC

Innovation

- Engineering design to address critical needs (Priority 1) and to preserve existing equipment (Priority 2), included:
 - Installation of new direct digital control (DDC) system
 - Modifications to existing air handling systems (including equipment refurbishment)
 - The addition of reheat coils to reduce infiltration
 - Computer Room supplemental cooling
 - Conversion of existing hot water pumps to variable pumps.
- Replacement of AHU condensing units, coils and piping.

