

## AMERICAN ANTIQUARIAN SOCIETY MEP/FP Upgrades

Worcester, MA

### **The Building:**

The front section of the American Antiquarian Society (AAS) building is a 2-story Georgian Revival structure that was constructed in 1910. Additions were made in 1924, 1950, 1972 and 2001 providing a combined area of 62,000 sq. ft. for book stacks, staff offices and public spaces. The Society was founded in 1812 making it the third oldest historical society in the United States. The mission of the Society is to collect, preserve and make available for study all printed records of what is now known as the United States from the first European settlement through 1876.



American Antiquarian Society - 2016

### **Nature of Firm's Responsibilities:**

Landmark Facilities Group, Inc. (LFG) was commissioned to assess the existing mechanical, electrical, plumbing, fire detection and fire suppression systems. LFG conducted detailed on site investigations and reviewed all available drawings to document the existing conditions, and interviewed stakeholders to determine their desired goals. The investigations resulted in an extensive report providing improvement recommendations and cost estimates.



Artist Rendering of New Addition

LFG designed new climate control systems and upgrades to the fire protection systems for the existing building and for a new 7,500 sq. ft. addition that includes a state of the art Book Conservation Laboratory. Technical support is being provided during construction through shop drawing reviews and field inspections.

### **Steam to Hot Water Conversion:**

The existing heating system in the building was hot water with radiators provided by steam boilers through a steam to hot water heat exchanger. The new design replaced the steam boilers with hot water boilers and the radiators were replaced with HW coils in new ducted supply air systems. The design of the heating system included:

- New gas fired high efficiency boiler
- New primary/secondary pump and piping scheme and hot water coils
- New Computerized DDC controls

**Reference:** Ellen Dunlap, President, 508-471-2161, [edunlap@mwa.org](mailto:edunlap@mwa.org)

**MEP Construction Cost:** \$6,350,000

**Date of Service:** 2017 - 2019