

RENOVATIONS TO HISTORIC SPACES

NYS Capitol Assembly Chamber

Owner: New York State Assembly Department of Administration

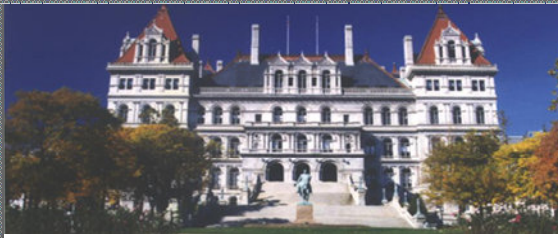
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Budget: \$5.5 Million Total (est.)

Completed: 2007 (Restoration Ongoing)

Key Project Elements:

- ◆ Major Historic Renovation
- ◆ Feasibility Studies
- ◆ Complex integration of old and new systems
- ◆ Extensive, careful phasing
- ◆ Fire Protection Design
- ◆ HVAC Design
- ◆ Electrical & Plumbing Design
- ◆ Construction Administration



ALBANY, NY — The Assembly Chamber is one of the most impressive public spaces constructed in the late 19th century. Unfortunately, shortly after opening, its magnificent vaulted ceiling began to fail, forcing secondary construction that still covers the dome and important murals to this day.

Finally, after nearly 100 years of continuing deterioration, the Chamber is undergoing a fully phased renovation to restore its original splendor. Plumb Engineering, P.C. has been retained to design the complex HVAC, electrical, plumbing, and fire protection systems that will allow the long-covered dome to reopen.

Plumb initially conducted a feasibility study for the removal of each existing system serving the Assembly Chamber and adjacent spaces as well as the installation of new fire protection systems to services above the historic chamber. Based on the results, Plumb was directed to proceed with construction documents and construction administration.

The HVAC system incorporates five new air handling units located in a new attic machine room and connects them to as much existing ductwork as possible. The system is configured to service all areas of the chamber and is linked to the existing DDC temperature control system.

Similarly, the electrical service utilizes two existing conduits running from the basement to 5th floor to provide sufficient power to the units.

The Plumbing system extends chilled water and steam lines up to the 6th floor to serve the AHU's cooling and heating coils. The system also provides chilled water from an additional air cooled chiller located on the northeast roof.

After an extensive study of the existing pumps and water flow, the Fire Protection design includes a new 5th floor fire pump and double interlocked preaction sprinkler system. This too utilizes the existing basement pumps without needing to upgrade them.

Each of these innovative designs minimizes the aesthetic and cost impact to the project. The systems all have the capacity to service the space once the dome is open as well, preparing the way for the final stages of restoration.



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