Client: National Park Service  
Exhibit Case – 85 conditioned cubic feet

The Case:  
The Independence Hall West Wing Exhibit Case provides the public with an exceptional display of the documents that founded this great nation. One side of the case exhibits a 1776 copy of the Declaration of Independence, a 1776 copy of the Articles of Confederation, and George Washington’s proof of the Constitution. The opposite side exhibits a 1762 silver inkstand used to copy documents of the age. The case is located in the West Wing of Independence Hall in historic Philadelphia, which is the site of the adoption of the Declaration of Independence and the drafting of the Constitution.

The Challenges:  
Landmark Facilities Group, Inc (LFG) was commissioned to design a sophisticated micro-climate control system to meet the stringent environmental needs of the documents and inkstand while working to integrate complex system interfaces between a multi-disciplinary project team. Since there was such a limited space available for a climate control system, LFG provided fabrication drawings to guarantee fit into a small package, to detail custom components for equipment not available on a micro-scale, and to ensure system functionality.

LFG Approach:  
The primary objective of the climate control system design was to provide a system that could operate uninterrupted with 100% redundancy such that any single component failure would not impact its ability to maintain the required environmental conditions. LFG’s role in the project was as a consultant to conceptualize the design, as a designer to develop fabrication drawings, and as a field engineer to test and adjust the system to achieve proper operation.