



WHITE HALL HISTORIC SITE STATE RESORT PARK

RICHMOND, KENTUCKY

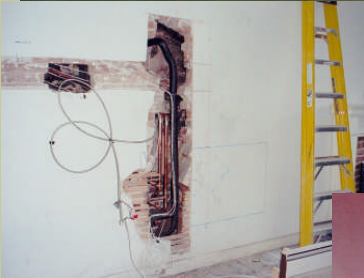
INSTALLATION OF HVAC AND ELECTRICAL SYSTEMS

Creating a functional, advanced HVAC system to be concealed within this beautiful historic site was the unique challenge given to KTA, Inc. White Hall is the historical home of Cassius Clay which was built in the 1860's above and around his father's home, Clermont, which dates back to 1798-1799.

The Commonwealth of Kentucky through the Department for Facilities Management and the Department of Parks entrusted KTA to design a new heating, ventilating, and air-conditioning system with dehumidification and monitoring equipment necessary to create a controlled environment for the preservation of this historic site. A total upgrade of electrical service and the integration of period light fixtures were also included in this project.

KTA was chosen to be the prime consultant for this project and using Fitzsimon's Office of Architecture as a sub-consultant, a solution was designed for this historic home. The new HVAC system consists of water source heat pumps that are hidden behind replicated pieces of furniture or under existing beds in the museum. All components of the water source heat pump system travel back to a remote mechanical plant located approximately 1000 feet from the main building. The make-up air/dehumidification system utilizes the fireplaces that are located in almost every room of the house for the distribution of air. The electrical upgrade includes a new emergency generator and new wiring throughout the entire house. The State provided period light fixtures that were installed and wired.

The objectives of this project were met and surpassed. The client received an HVAC system that allows the comfort level of the tourists to be met while also maintaining a controlled environment for the historic home. Creative thinking and careful planning in both the design and construction phase of this project helped to insure the successful goals that KTA wanted to achieve and allowed us to broaden our techniques to preserve historic sites throughout our society. Preserving the past is the key to our future.



KTA, INC.
CONSULTING ENGINEERS