

## **FY2019-2020 State Aid for Library Construction Narratives**

### **Abstract:**

Replacement of second floor condenser and air circulation units with equipment meeting MHLS energy conservation useful life maintenance guidelines.

### **Description:**

Energy conservation by replacement of MHLS Office Building second floor condenser and air circulation units with equipment meeting MHLS energy conservation useful life maintenance guidelines.

More efficient use of energy will result from the replacement of the MHLS Office Building second floor condenser and air circulation units with equipment meeting MHLS energy conservation useful life maintenance guidelines. The replacement equipment will adhere to the MHLS energy conservation useful life maintenance guidelines, which are a MHLS Board State Aid for Library Construction Program Funding Priority.

The project will purchase and install two new condensers, two new air handling units and new thermostats. The fabrication and installation of all necessary ductwork to install the new air handler units to connect with existing ductwork is also encompassed in this project. All work shall be accomplished by skilled workmen familiar with and trained to do this type of work, and they shall be further qualified to operate or use the equipment or rigging needed to accomplish this work. The work will include all preparation, installation, wiring, ducting, testing, cleanup and related items necessary to complete the replacement of the existing condenser and air circulation unit equipment in kind, meeting Energy Star requirements, where possible, and maintaining equivalent power to what is being replaced for both cooling and moving of air. All work shall comply with current applicable codes including OSHA and DOL compliance.

### **Impact:**

Energy conservation by replacement of MHLS Office Building second floor condenser and air circulator units with equipment meeting MHLS energy conservation useful life maintenance guidelines.

As part of the MHLS Facility Master Plan, the replacement of these units will result in a more efficient use of energy while increasing the comfort level of our staff on the second floor. The new units will be ENERGY STAR rated where possible. ENERGY STAR is a U.S. Environmental Protection Agency (EPA) voluntary program that helps businesses and individuals save money and protect our climate through superior energy efficiency. This project will not only save energy it will also increase staff comfort level by adding a second zone, giving staff more control over comfort levels and increasing our ability to monitor energy usage. This project will adhere to the MHLS energy conservation useful life maintenance guidelines, which are a MHLS Board State Aid for Library Construction Program Funding Priority.

**Total Project Cost:** \$61, 796

**Grant Award Amount Requested:** \$30,898