

Agency 072 ELEMENTARY AND SECONDARY EDUCATION

Project ID/Name: DAV2 Davies Career and Tech. School - HVAC

Project Description:

The Regents request \$2,384,500 to complete the replacement and repair of the HVAC system at the Davies Career and Technical Center. The remaining balance of the \$4.3 million project is outlined as follows: the FY '13 phase (\$713,729) involves the replacement of the units in rooms 219 through 229, the FY '14 phase (\$630,271) involves replacement of units in the cosmetology shop, Guidance office area, the School to Career office area, and air handling units for the open area outside of the "old building"; the FY '15 phase (\$613,000) involves complete upgrade of the entire modular classroom building HVAC system and replacing with a new Geo-thermal heating/cooling system, and the final FY '16 phase (\$427,500) entails upgrade of the entire domestic hot water system for both the north and south portions of the building.

Noteworthy Item:

It should be noted that the budget appropriation for FY '13 for HVAC was reduced from the requested level of \$750,000 down to \$250,628. However, Davies has residual funds from its Roof Replacement capital project approximating \$463,101. Therefore, reflected in this capital budget submission, Davies is simply requesting for FY '13 that the surplus funds from the Roof Project be moved to HVAC so that the project can remain on track, and the HVAC units in rooms that presently have heating, cooling, and air quality issues throughout the freshmen wing can be replaced.

Project Justification:

The replacement of the HVAC units in the areas described above is necessary updates for the heating and cooling units located throughout the noted areas of the facility. The existing equipment is over 30 years old and is currently contributing to heating, cooling and more importantly, air quality issues in a number of areas in the building. During the winter months, portable space heaters have been necessary in some of the classrooms noted. Otherwise, class space would be unacceptable for student and faculty use. Past fire inspections indicated that space heaters in the classrooms were deemed to be unsafe.

Project Status:

It must be noted that the A+E design work done in FY '10 had taken the scope of the project from an electric-based heating/cooling solution to an energy-efficient hydronic heating and split cooling system. As a result, the capital project funding request aligns to a hydronic-based solution. Due to the total estimated project costs, funding is requested to complete this project in phases through FY 2016 to cover the areas most in need of repair or replacement. The A & E portion of the project for FY '13 will soon be awarded, and bids for the FY '13 portion of the above-described project will soon be sent to Division of Purchases. At the appropriate time and based on availability of capital project funding, future bids will be solicited for each phase of the project.

Strategic Criteria

Safety Concerns

Major

Safety Narrative

The heating units in the portion of the facility being requested above are approximately 30 years old. As such, the units present issues relating to classroom air quality, ventilation, and proper temperature.

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Code Violations Major

Code Narrative

During the winter months, portable space heaters have been necessary in some of the classrooms noted above. Otherwise, the classroom space would be unacceptable for student and faculty use. A recent fire inspection indicated that space heaters in the classrooms were deemed to be unsafe.

Energy Impact Major Positive

Energy Narrative

As noted above, the age and condition of the heating units pose air quality issues. The unit efficiency is also low, requiring more energy in an attempt to bring the heating or cooling temperature of the classrooms to the desired level. Replacing the systems will greatly improve the efficiency of the building, being that the school is changing from an electric heating and cooling solution to a hydronic heating and split cooling system.

Customer Service Major

Customer Narrative

Students and staff expect that school sessions will be held in adequate facilities. Inappropriate climate control reduces the effectiveness of the education environment.

Geographic Significance Local

Geographic Narrative

This project will only affect the Davies Career and Technical Center.

Agency Mission High

Agency Narrative

The mission of schools is to educate students in a safe and healthy learning environment and provide a safe work environment for all staff. Appropriate measures must be implemented so that students are able to learn the skills needed to prosper in their chosen trade.

User Financing 0

User Narrative

Asset Management Rehabilitation

Asset Narrative

This project involves replacing the HVAC systems at Davies Career and Technical Center. The repairs support only this facility.

Operating Minor

Operating Narrative

Historic Preservation No

Historic Narrative

Budgeted Yes

Budget Narrative

Critical Criteria

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Critical Life Safety No

Critical Life Safety Narrative

Critical Legal Liability No

Critical Legal Liability Narrative

Prior Binding Commitment No

Prior Binding Commitment Narrative

FY 2014 - FY 2018

Capital Improvement Plan Request System

Agency Request vs. Plan

Funding Source	Pre FY 2013	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	Post FY 2018	Total
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Agency **072 ELEMENTARY AND SECONDARY EDUCATION**

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Status: Plan									
RI Capital Plan Fund	\$1,911,588	\$250,628	\$0	\$0	\$0	\$0	\$0	\$0	\$2,162,216
Subtotal Plan	\$1,911,588	\$250,628	\$0	\$0	\$0	\$0	\$0	\$0	\$2,162,216
Status: Request									
RI Capital Plan Fund	\$1,929,799	\$713,729	\$630,271	\$613,000	\$427,500	\$0	\$0	\$0	\$4,314,299
Subtotal Request	\$1,929,799	\$713,729	\$630,271	\$613,000	\$427,500	\$0	\$0	\$0	\$4,314,299