KU#005/8850 - Dyche Hall Deferred Maintenance – Mechanical and Electrical Improvements

The University of Kansas is soliciting qualifications packages from engineering consultants for the above titled construction project.

Introduction

State of Kansas funding has been identified for a project to replace certain mechanical and electrical equipment located in Dyche Hall on the University of Kansas Lawrence campus.

The equipment to be replaced has for some time been included on a more comprehensive list of deteriorated campus infrastructure that has typically been referred to as the deferred maintenance backlog. The primary objective of the project is to directly replace obsolete, deteriorated, and dysfunctional equipment with new.

As a consequence of the fact that the equipment being replaced is nearly 50-years old, certain concerns must be addressed that necessitate that the designs for this project will likely not be a direct one-for-one replacement, i.e. -

- Current activities of occupants of the academic and research spaces served by this equipment require utility support not provided by current equipment. As an example, electrical power circuiting, ampacity, and quality available in the 1902 wing is totally inadequate for current research computing needs.
- Current building codes feature mandates not contemplated when the existing equipment was installed. An example is the increased outdoor air ventilation requirement for occupants.
- The recent escalation of energy costs makes it critical to carefully consider the energy use impact of any design for replacement equipment.

Project Budget

Mechanical Improvements	$855,000
Electrical Improvements	255,000
Haz Mat Abatement	40,000
Project total, including project "soft" costs	**$1,150,000**

Program Scope

A detailed program is being prepared that describes a scope of work that will replace four of the 1962-vintage air handlers that serve the core of the building, including both the 1902 and the 1962 wings. The current total air volume of the four units is approximately 40,000-cfm. The building floor area served is approximately 44,000-sq.ft.

Replacement of these units will necessarily be accompanied by replacement of associated chilled water and steam/condensate piping, electrical feeders, and mechanical controls.

An additional scope of work item for this project will be replacement of certain building electrical service panels. The work will include replacement of the circuit conductors that feed these panels and the distribution circuits and receptacles at the points of use throughout the affected areas of the building. In all, this project may replace distribution circuits serving as much as 65,000-sq.ft. of Dyche Hall.

The anticipated construction period for this project is summer/fall of 2010.