



SEDGWICK COUNTY, KANSAS
DIVISION OF FINANCE
Purchasing Department
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ADDENDUM 1
16-0040
HVAC CONTROL SYSTEM

April 5, 2016

The following is to ensure that vendors have complete information prior to submitting a bid. Here are some clarifications regarding the bid for the HVAC Control System.

An additional attachment was inadvertently left out of the released document; this attachment is part of the bid request and compliance to the items therein is required to be considered responsive.

PLEASE ACKNOWLEDGE RECEIPT OF THIS ADDENDUM ON THE BID RESPONSE PAGE.

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Scope of Work

Replacement of the Direct Digital Controls System

Serving the Sedgwick County Building located at:

271 W 3rd Wichita, KS

This document outlines the general scope of work to replace the existing Trane building controls system with a Native BACnet® Direct Digital Controls (DDC) system. In addition to this scope, the attached Bid Specification must be followed. Any variance or exceptions to these guidelines must be approved by the customer prior to bid submittal.

Any and all controllers and attached sensors and devices must be replaced unless otherwise stated in this specification package. Includes controllers servicing all existing equipment currently being monitored or controlled by the existing Trane System. All current functionality must be retained and verified. Sedgwick County will make reasonable accommodations to allow access and evaluation of the building and effected systems. Any resources currently possessed by the county will be made available to interested contractors for estimating purposes.

General System Requirements:

User Interface:

User interface must be web based and accessible through any common internet browsing software including but not limited to IE, Chrome, Firefox and Safari. It must also be accessible through any device running Android or IOS operating systems. System shall include graphical representation of building floor plans and associated devices. All DDC systems graphics shall include a graphical representation of the equipment being controlled as well as, any relevant points associated with the operation and functionality of that particular system.

Operator Workstation:

Any software associated with the control of equipment, creation and modification of graphics, creation and modification of trend logs and runtime reports, alarm creation, manipulation and modification, creation and modification of schedules and calendars and any other general system maintenance of the DDC system must be included in the bid price. Associated computer hardware will be provided by the customer.

Trend Collection, Storage and Reporting:

DDC contractor is responsible for providing historical data archiving and energy reporting software as outlined in the attached DDC Bid Specification. The customer will be responsible for supplying all computer hardware associated with running relevant software packages.

DDC Control Systems:

Unless otherwise stated in this scope, all controllers, devices and sensors associated with the control and monitoring of the existing building HVAC systems must be replaced. Bid must include all labor and material to install, program, commission and verify the new system. Integration gateways or 3rd party communication devices used to interface with any of the existing controllers will not be accepted.

Air Balance:

System air balance must be included in pricing. See attached Air Balance Bid Specification for air balance contractor requirements and guidelines.

Thermostats:

Room sensors must be provided with a temporary occupancy override button, occupancy indication and htg/clg temperature adjustment at a minimum.

Drawings and manuals:

Upon completion of the project, the contractor will be responsible for providing detailed, site specific drawings and adequate Owner and Operations manuals for all newly installed systems, controllers and sensors. Drawings must include detailed cable routing and termination, device locations, system sequencing, flow diagrams, bill of material, and point assignment.

Training:

A minimum of 8 hours training to be used in no less than 4 hour blocks must be provided. Training must comply with the attached Bid Specification.

Equipment Specific Requirements:**Air Handling Units:**

- Remove Supply Fan Inlet Vanes and install Variable Frequency Drives. Mechanical isolation of the inlet vanes will not be accepted. Contractor is responsible for all associated installation, programming, wiring, and termination, including line voltage. Electronic bypass must be included. Drive must be BACnet® compatible: Approved vendors include:
 - Danfoss
 - ABB
- Replacement of valve and damper actuators is only required if the existing actuators are not compatible with the new DDC System.

VAV Boxes:

- Damper actuators must be replaced.
- Replacement of valve actuators should be included as an alternate bid. If replacement is required, in order to be compatible with the new DDC system, include the associated pricing and indicate as such on the bid submittal.

4th Floor Economizer:

- Replacement of valve and damper actuators is only required if the existing actuators are not compatible with the new DDC System.

4th Floor Data Room:

- Any mechanical systems or controls associated with the 4th floor data room are excluded from this scope and will not be required to be attached to the new DDC system.

Central Plant:

- Replacement of valve actuators is only required if the existing actuators are not compatible with the new DDC System.