



PREBID ADDENDUM #002

DATE: **June 11, 2021**

PROJECT: **University of Missouri Air Handling BAS Upgrades in CCA and UMTH**
MU # CP210353 / IMEG # 20005478.00

BID DUE DATE: **June 17, 2021**

ENGINEER: IMEG Corp. - Tony Zehnle
15 Sunnen Drive, Suite 104
St. Louis, Missouri 63143
Phone: 314-951-2520
Fax: 314-645-1173

TO: All Contract Document Holders of Record.

This Addendum forms a part of the bidding and construction documents. This Addendum supersedes and supplements all portions of the original bidding and construction documents dated **May 13, 2021**, with which it conflicts. Please attach this Addendum to the Project Manual(s) in your possession.

ACKNOWLEDGE RECEIPT OF THIS ADDENDUM IN THE SPACE PROVIDED ON THE BID FORM.
FAILURE TO DO SO MAY SUBJECT BIDDER TO DISQUALIFICATION.

A. **PROCUREMENT AND CONTRACTING REQUIREMENTS**

1. **ADVERTISEMENT TO BID:**
 - a. **REVISE** the bid opening location to Room 194 of General Services Building.

B. **REQUEST FOR INFORMATION / CLARIFICATIONS**

1. Sheet M609 Detail 2 - The ladder diagram indicates individual start-stop control points for the supply return fans. The existing Metasys controller only has a single AHU start-stop point with a DPDT relay to initiate the start-stop function to both VFD's. Does the new controller need to have individual S/S points via relays "R2" and "R4" for both fans? If so, does the new controller have the point capacity?

Response - Yes, individual S/S points will be provided if Alternate 1 is accepted and modules will be added as required. If Alternate 1 is not accepted, single point for supply and return would remain.

2. Sheet M609 Detail 2 - The ladder diagram indicates individual supply and return fan CT's to energize Relays "R3" and "R5" to transmit fan status. The existing fan status points are obtained via individual air pressure differential pressure switches located at the respective fan. Do the existing DP's need to be replaced with CT's and relays?

Response - Yes, existing DPs shall be replaced with CTs. A note will be added to reflect this on the drawings.

3. Sheet M609 Detail 2 - The ladder diagram indicates two "EP's, one for dampers and one for heating. The existing control panel only has one EP which serves the minimum outdoor air damper, supply air isolation smoke damper and return air isolation smoke

damper. The EP circuit is energized thru standard safety devices (freeze, high pressure, low pressure, fire) and are in series with the damper end switches. The control air for all other dampers and valves are supplied thru Metasys AO transducers with no EP interlock. Should the single EP remain as installed?

Response - No, match the safety circuit provided. Wiring and pneumatics need to be reconfigured to match the safety circuit.

4. The VFD's indicate that they are connected to Metasys via the N2 Bus. The new drawings do not direct that the VFD's are required to have new FC bus connected. Should the supply and return VFD's have FC Bus installed?

Response - No.

5. The existing control drawings do not describe the physical point terminations on the controller itself. That is why we are requesting the "tagging" document and or "Network Point Type and Address".

Response - Owner is now doing the programming so it should not be required.

6. Please provide a Bill of Material for the Metasys DX-ADPT controllers and associated I/O expansion modules identified for each specific AHU or water system.

Response - If possible, MUHC will provide as part of a future addendum. Exact model numbers are DX-ADPT-FAC3613

7. Please provide a Bill of Material for each new FEC controller and I/O expansion model.

Response - If possible, MUHC will provide as part of a future Addendum.

8. Is the Owner furnishing the enclosures for the new FEC controllers?

Response - No. existing control enclosures shall be utilized.

9. Is there existing 120-volt power circuits available for the new FEC controllers?

Response - Yes.

10. Please provide a list of existing (JCI) control drawings available for review/copies.

Response - Control shop drawings available will be provided as an Appendix to the project manual in an Addendum.

11. Can the University provide the controller addresses?

Response - This should no longer be required now that the Owner is doing the programming.

12. Does the University have an existing point "tagging" document for each controller? Or can the University provide the "Network Point Type and Address" for each controller? This is necessary to identify the physical I/O point terminals on the existing controllers.

Response- This should no longer be required now that the Owner is doing the programming.

C. SPECIFICATIONS

1. TABLE OF CONTENTS
 - a. **ADD** Appendix B to the table of contents.
2. SECTION 1.A - BID FOR LUMP SUM CONTRACT
 - a. **ADD** line for MBE, WBE, DBE, and VOB participation.
3. SHOP DRAWING SUBMITTAL LOG

- a. **ADD** firestopping submittal.
- 4. OPERATING INSTRUCTIONS AND SERVICE MANUAL LOG
 - a. **ADD** firestopping.
- 5. SECTION 1.E - SPECIAL CONDITIONS
 - a. **MODIFY** special scheduling requirements as noted.
 - b. **MODIFY** parking requirements as noted.
- 6. SECTION 23 09 00 - CONTROL SYSTEMS
 - a. **MODIFY** scope of work to indicate that Owner will perform programming.
 - b. **CLARIFY** existing control enclosures to be utilized.
 - c. **ADD** time allowance for owner programming submittal.
- 7. APPENDIX B - EXISTING CONTROLS SUBMITTALS
 - a. **ADD** section in its entirety. Only submittals for CCA and OR projects were available.
- D. DRAWINGS
 - 1. DRAWING M000 - MECHANICAL COVERSHEET
 - a. **ADD** inspection requirements.
 - 2. DRAWING M601 - CRITICAL CARE ADDITION CONTROLS
 - a. **ADD** general note to detail 1 to clarify disconnection of N2 bus from VFDs.
 - b. **ADD** general note to all details to instruct on replacement of existing fan status DP switches with new current switches.
 - 3. DRAWINGS M602, M604, M606 - CONTROLS
 - a. **ADD** general note to all AHU details to instruct on replacement of existing fan status DP switches with new current switches.

END OF PREBID ADDENDUM #002

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