ATTENTION: This is not an order. Read all instructions, terms and conditions carefully.

IMPORTANT: BID AND ADDENDUM MUST BE RECEIVED BY: 06/30/2020 @ 3:00 P.M. LEXINGTON, KY TIME

Bidder must acknowledge receipt of this and any addendum as stated in the Invitation for Bids.

1. Please refer to and incorporate into your bid, the attached addenda items CMTA.

OFFICIAL APPROVAL
UNIVERSITY OF KENTUCKY

Ken Scott 06/23/2020

Contracting Officer / (859) 257-9102

SIGNATURE

________________________________________

Typed or Printed Name
CCK-2493-20 Replace AHU#1 – Pav H – General Construction
Bid Pack 2
ADDENDUM #4  June 23, 2020

Item #1  Refer to the mechanical specifications, section 200100 – GENERAL PROVISIONS – MECHANICAL
A.  Refer to page 18, point 42.A.(6): In lieu of a, b, c, and d listed the scope of BIM coordination shall be as follows:
   i.  All BIM modeling shall be contained to new and existing to remain work in Mechanical room H-27
   ii. All ductwork, equipment, and piping including valves, dampers, and their associated required access zones.
   iii. All control valves and their required access zones.
   iv.  All equipment requiring access and their associated access zones.
   v.  All new and existing conduit.
   vi.  All new and existing electrical equipment.

Item #2  Refer to the mechanical specifications, section 230200 – HVAC EQUIPMENT
A.  Refer to page 3, paragraph E.(2) – On Site Leak Testing: The contractor may, at his option, utilize the services of his Test and Balance contractor to perform the leak test but factory witnessing of this test must be provided. The mechanical contractor is to provide all required sheet metal blank-off plates for unit openings to accomplish this pressure test. The mechanical contractor is ultimately responsible for ensuring that the unit is assembled to meet factory-required leakage performance.

Item #3  Refer to the mechanical drawings, sheet IC-100
A.  Refer to attached updated sheet with revisions per bid package #1 addendum #1.
B.  Note: This sheet marked “for reference only” as the controls was bid in previous Bid Package #1. The successful controls bidder was RoviSys Building Technologies out of Aurora, OH. Their contact person is Brian Williams, 330-206-6692. The contractor is to include in his bid an allowance for the controls work indicated in the following amounts:
   i.  Base-Bid: $59,976.00 dollars.
   ii. AddAlternate (Cooney Coils): $1,440.00 dollars.
C.  It is the intent of this document that the owner be provided with a complete and functioning installation. Though this sheet is marked “For Reference Only” please refer to the responsibility matrix on this sheet and coordinate with the successful controls vendor to ensure that all scope is covered. Pay particularly close attention to those items noted in the mechanical contractor and electrical contractor’s columns and coordinate exact quantities with controls vendor.

Item #4  Refer to the mechanical drawings, sheet M2.1
A.  Refer to clouded changes.

Item #5  Refer to the mechanical drawings, sheet M3.1
A.  Refer to clouded changes.
B.  Refer to “Ground Floor Underslab Plumbing New Work – Mechanical Room”: Cleanout indicated by CO tag shall be as manufacture red by Zurn, Josam, Jay R. Smith, Watts, MIFAB, Ancon or equal and shall be equal to Zurn model ZN-1400-T cleanout with square scoriated top suited for mounting in concrete floors.
C.  New cleanouts required in the base of exposed stack shall be provided with Tee in piping and cleanout equal to Zurn Z-1440.

Item #6  Refer to the mechanical drawings, sheet M7.0
A.  Refer to Steam Pressure Regulator Schedule:
   i.  Revise steam inlet pressure down from 175 PSI to 125 PSI.
B.  Refer to Air Handling Unit Schedule:
   i.  Refer to Remark 6, TMI and Air Flow Equipment, Inc. are acceptable.
   ii. By way of clarification, air handler manufacturer must provide OA and RA dampers within the unit casing. Controls contractor to provide and mount actuators.

Item #7  Refer to the electrical drawings, sheet E4.0
A.  Added proposed feeder path and notes for a soffit to cross corridor. Please note soffit must have 3-5/8” metal studs, 16” OC and adjacent wall must be painted corner to corner to match surrounding walls.
B.  Added detail notes about wiring of VFD and motor protection panel provided by others for the AHU.

END OF ADDENDA ITEMS
B.

Supply and Return Fan Control

Unit Scheduling:

A.

The current project shall configure the unit as a 100% OA unit. During unit operation, OA damper shall be open 100%.

B.

The unit shall be placed into occupied or unoccupied mode from the DDC control system.

C.

If the heating coil plenum temperature falls below 38F (adj.) then the supply fan shall shut down, the outside air damper shall be commanded to permanent closed position.

D.

To maintain the proper heating of the air handling unit and proper restart of the unit.

Filter Monitoring

- In addition to a high limit sensor, provide a static pressure sensor to monitor fan status via differential pressure sensor downstream of fan. If fan status does not match fan control wiring to factory controller at it's existing location.

- Existing Aerco model B+09EC steam to hot water heater shall have an additional relay switch which must be picked up by the controls contractor. Provide alternate controls vendor to follow UK Standards 230900S03.

- All BACnet/IP, BACnet/MSTP, BACnet networks on BSC are to have instance numbers coordinated and issued by UK UEM.

- Coordinate alarm for each filter such that is adjustable by the user but not viewable by the controls contractor.
2. GROUND FLOOR PLUMBING DEMOLITION - MECHANICAL ROOM

UNDERSLAB PLUMBING DEMO
1. **GROUND FLOOR PLUMBING NEW WORK - MECHANICAL ROOM**

2. **GROUND FLOOR UNDERSLAB PLUMBING NEW WORK - MECHANICAL ROOM**

PLUMBING RISER

- **Scale:** 1/4" = 1'-0"
- **Manufacturer's Plans:** Refer to floor drain continues.
- **Legend:**
  - 4"ø E (DCW)
  - 3/4"ø E (DRW)
  - 2"ø E (FP)
  - 2"ø E (DHW)
  - 3"ø E (DCW)
  - 4"ø E (DCW)
  - 2"ø E (SAN)
  - FD-1
  - FD-2
  - H1
  - H29A
  - H27
  - HA00

- **Notes:**
  - New location for domestic hot water heater. Refer to new work piping schematic for details of electrical equipment. Refer to electrical drawings off.
  - New pump.
  - Plumbing new work.
  - Ground floor underslab plumbing new work - mechanical room.
  - Plumbing riser.

- **Tags:**
  - A1
  - A112
  - A113
  - A114
  - A115
  - A116
  - A117
  - A118
  - A119
  - A118

- **References:**
  - University of Kentucky Medical Center
  - Lexington, KY 40504
  - 1000 South Limestone
  - Lexington, KY 40536

- **Drawn:**
  - C. Wade
  - 05.14.2020

- **Checked:**
  - POF

- **Constructions Documents:**
  - University of Kentucky Medical Center
  - Lexington, KY 40504
  - 1000 South Limestone
  - Lexington, KY 40536

- **Remarks:**
  - D. O. I.: 1958

- **Additional Notes:**
  - H-1 air handler replacement - BP #2
  - Keyplan - UK Hospital
  - Not to scale

- **Experienced by:**
  - Domestic water system. Rough-in heaters shall be phased such that no downtime is required. Installation of domestic water piping continues to serve "housing quarter".
  - Piping to new work piping schematic for further detail. Provide (3) upright sprinkler heads to ensure coverage is maintained throughout the space.
  - Project until such time as new replacement air handler has been completely fabricated and commissioned and is ready for switchover to new handler. After successful tie-in to new air handler, unit shall be shut down and overridden to existing equipment on new 4" tall concrete housekeeping pad. Refer to plumbing fixture isolation purposes.

- **Additional Information:**
  - All new piping with tie-in's to existing systems prior electrical equipment. Refer to electrical drawings off.
  - New pump.
  - Plumbing new work.
  - Ground floor underslab plumbing new work - mechanical room.
  - Plumbing riser.

- **Advisory:**
  - Existing hot water recirculation manifold to remain in service throughall new work piping schematic for details of isolation valve at an accessible location for isolation purposes. Coordinate exact identifying the area that it serves. Coordinate exact reconnection. Install condition of domestic water system. Rough-in heaters shall be phased such that no downtime is required. Installation of domestic water piping continues to serve "housing quarter".
  - Piping to new work piping schematic for further detail. Provide (3) upright sprinkler heads to ensure coverage is maintained throughout the space.
  - Project until such time as new replacement air handler has been completely fabricated and commissioned and is ready for switchover to new handler. After successful tie-in to new air handler, unit shall be shut down and overridden to existing equipment on new 4" tall concrete housekeeping pad. Refer to plumbing fixture isolation purposes.

- **Materials:**
  - 100K
  - HA00