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HERMAN HOLLOWAY CAMPUS ADMINISTRATION BUILDING  
HVAC RENOVATIONS  
OMB/DFM CONTRACT # MC3501000021  
ADDENDUM #3

QUESTIONS:

1. Is the attic space considered a mechanical room? What are the insulation requirements for the new ductwork located in the attic?

**Answer: No, the attic is not considered a mechanical room. The ductwork in the attic shall be insulate with a 2" thick flexible glass fiber.**

2. Drawings M-101, M-102 indicate replacement of the existing steam zone room temperature sensors as part of the base bid. Can you clarify that control of the existing steam valves associated with those sensors is also to be included under the base bid?

**Answer: The existing steam zone room temperature sensors are to be replaced as part of Alternate #3. The base bid incorporates no work associated with the steam valves.**

3. Drawing M-502: Any monitoring/control required for exhaust fan EF-15?

**Answer: Yes. See revised M-702.**

4. Drawing M-701:

- a. Can you clarify the fire alarm connection requirements for AHU-4&5. Will fire alarm contractor provide the safety interlock relay and wiring for fan shutdown and input to BAS?

**Answer: Duct smoke detectors and all field wiring assigned with fan shutdown shall be part of Base Bid. DHSS site Fire Alarm Contractor shall be hired by Contractor, this cost is to be covered in the allowance.**

- b. Are LCD displays required for VAV box room temp sensors?

**Answer: No.**

- c. In areas where walls cannot be finished for new VAV temperature sensors, is wire mold acceptable for running wire down the wall to the new sensor?

**Answer: Yes.**

- d. Will outdoor and return air dampers associated with AHU4/5 be integral to the pre-purchased Carrier equipment, or do these need to be supplied by the BAS contractor?

**Answer: Dampers are supplied, actuators to be by BAS.**



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e. Will supply fan VFD be factory supplied with AHU4/5, or are they provided by the BAS contractor? If by BAS contractor, can you please provide motor supply fan motor data?

**Answer: Neither AHU4/5 require a VFD.**

5. Drawing M-702:

a. Can you clarify the fire alarm connection requirements for SF-1 and SF-2. Will fire alarm contractor provide the safety interlock relay and wiring for fan shutdown?

**Answer: There are no fire alarm requirements for SF-1 and SF-2.**

b. Can you clarify the quantity of unit heater(s). It appears there is only one existing UH-12 located in the boiler room that is included in the overall project scope.

**Answer: UH-12 is the only unit heater incorporated in this project and it is only part of Alternate #3.**

6. Sequence of operations section 230958

a. Item 3.01 H, page 2- Can you clarify the requirements under this contract for power control units? For which equipment/switchgear are they to be supplied, and where would this equipment be located the facility?

**Answer: Monitoring the building electrical power is not required under this scope, therefore phase monitoring will not be part of this scope of work.**

b. Item 3.02 Page 4 – Are we required to monitor total building electric power under this scope?

**Answer: No, monitoring the building electrical power is not required under this scope.**

c. Can you sequences be provided for the VRF integration/interface, in terms of what points the BAS is to read/write, and what actions the BAS should take (occupancy, set points, etc.) for this system.

**Answer: BAS shall integrate all bacnet points available from VRF controller (See VRF submittal supplied in Addendum #2). BAS shall monitor all points available and shall be able to write space temperature set point and occupied/unoccupied.**

7. Can you clarify install requirements for low voltage BAS wiring on the mechanical/electric rooms, ground floor thru 3<sup>rd</sup> floor office areas, and attic? What areas require installation in EMT, and where can plenum cable supported with J-hooks or bridle rings be installed?

**Answer: All BAS wiring exposed in public spaces shall be in conduit/raceways. Public spaces are considered all floors in the Annex Building, and the first through third floor in the Main Admin Building (See sketch SKM-001 for breakdown). All BAS wiring in the Boiler Room is to be in conduit or EMT. Any BAS wiring located in the Attic that is below 7' AFF between the support columns needs to be run in conduit or EMT. Any BAS wiring located in the Attic outside**



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of the support columns needs to be supported every 5' of wiring (See sketch SKM-002), if unable to support then conduit or EMT must be used.

8. Is it acceptable to reuse any/all of the existing control enclosures and wiring?  
**Answer: Yes. However, existing wiring shall be tested for continuity before use.**
  
9. Can you confirm that all low voltage wiring associated with the VRF system is to be performed under the BAS/controls portion of the contract?  
**Answer: This is a single point contract. This work shall be performed under this contract by an experienced contractor.**
  
10. Will the BAS installed under this project be required to connect in the existing Admin Building Automated Logic System, and the Holloway Campus Automated Logic WebCTRL server?  
**Answer: Yes, the BAS installed under this project is required to connect into the existing Automated Logic System.**
  
11. Can the pre-purchase Carrier equipment submittals be provided?  
**Answer: Submittals were provided with Alternate #2.**

Clarifications:

- VAV will be provided with 208-24V AC step-down transformers.

Addendum #3

1. Addendum #3 (this document) (3 pages)
2. Drawing M-702, SKM-001, and SKM-002 (3 pages)

Summarized By:	DEDCC, LLC Matt Lano
Date:	03/02/16