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HERMAN HOLLOWAY CAMPUS  
CONTROLS CONSOLIDATION PHASE II  
OMB/DFM # MC3501000057  
ADDENDUM #3

QUESTIONS:

1. Does the scope include any balancing of any kind?  
**Answer: Yes. See revised drawing M-G20 for airflow diagram.**
  
2. Please confirm, per Specification 23 09 50, item 1.03B, the work of this project ‘shall be an extension of the existing Automated Logic System currently installed.’ meaning all system controllers and software provided shall be Automated Logic connected to the existing WebCTRL server on the DHSS Holloway Campus.  
**Answer: Yes, the BAS installed under this project is required to connect into the existing Automated Logic System.**
  
3. Can you confirm that all control enclosures, conduit/raceways, and input and output wiring can be reused?  
**Answer: Yes, but it is the contractor’s responsibility to determine and report defective equipment prior to replacement. It is also the contractor’s responsibility to test existing wiring for continuity before use.**
  
4. Can existing communication network bus wire be reused if it is determined that it meets the communication wire specifications of the new BAS controllers?  
**Answer: Yes, but it is the contractor’s responsibility to determine and report defective equipment prior to re-use. It is also the contractor’s responsibility to test existing wiring for continuity before use. Currently communication wiring is suspected to be defective and was not specifically identified as existing to remain. See section 23 09 50 3.04.**
  
5. In the areas of Kent-Sussex, Biggs, and Springer where either patients are housed or employees are working, what the guidelines as far as allowable work hours, and specific guidelines for working around patients?  
**Answer: Work hours are to be from 8:00 am to 4:30 pm. Contractor is to provide a 3-week look ahead schedule at each meeting as well as an overall project schedule. These schedules are to be used to accurately identify where work is to be occurring so that patients and employees can be temporarily relocated while work in their areas is occurring.**
  
6. Biggs Drawing B-21:
  - a. Detail #1 RTU control shows a DO point for the return air and outdoor air dampers, as well as an AO point. Can we provide just an AO point? Also, the OAD shows DI status point - should this be an AI point instead? Should the RA damper also have an AI feedback point?



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**Answer: The AO will suffice on the RA and OA Dampers, the RA and OA Dampers shall have an AI for damper status.**

- b. Detail #6 indicates points for the Biggs PTAC units. The sequence indicates that the BAS is to interface to the PTAC - but no points other than room temperature and override are shown. The existing PTAC units appear to have a conventional thermostat interface, allowing control of fan, heat, and cooling - are these the loads we would need to control in addition to monitoring room temp?

**Answer: The intent was to utilize a BAS Temp Sensor equal to Automated Logic's RC642 / RC642D. If temp sensor is located in public area use RC642.**

- c. Is any data available on existing fin tube radiation valves, in order to facilitate selection of new actuators?

**Answer: No. Assume a 1/2" control valve, field verify prior to ordering.**

7. Springer Drawing M-C22:

- a. Is any data available on existing fin tube radiation valves, in order to facilitate selection of new actuators?

**Answer: No. Assume a 1/2" control valve, field verify prior to ordering.**

- b. For the TU-# flow diagrams, is in primary air VP intended to indicate air flow measurement at each TU (i.e. AI rather than AO)?

**Answer: Yes this should be an AI.**

- c. Is any data available on existing cabinet unit heater valve actuators?

**Answer: All available mechanical drawings have been provided in this addendum.**

8. Springer Drawing M-C23:

- a. Detail #1 RTU controls shows a DO point for the return air and outdoor air dampers, as well as an AO point. Can we provide just an AO point? Also, the OAD shows DI status point - should this be an AI point instead? Should the RA damper also have an AI feedback point?

**Answer: The AO will suffice on the RA and OA Dampers, the RA and OA Dampers shall have an AI for damper status.**

9. Kent-Sussex Drawing M-G22:

- a. Unit heater detail #6 note 2 indicates "Prove Valve Operation New Valve". Can you clarify what his means?

**Answer: The intent was that the controls contractor would verify that the existing valve operates as intended. If this valve does not operate as intended the contractor shall document the finding.**



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- b. Fan Coil detail #3 note 3 indicates “prove valve operation.” Can you clarify this means to leave existing valve and actuator in place, and provide results of our field testing as part of the project?

**Answer: The intent was that the controls contractor would verify that the existing valve operates as intended. If this valve does not operate as intended the contractor shall document the finding.**

- c. Reheat Coil detail #9 note 2 indicates “verify valve operation.” Can you clarify this means to leave existing valve and actuator in place, and provide results of our field testing as part of the project?

**Answer: The intent was that the controls contractor would verify that the existing valve operates as intended. If this valve does not operate as intended the contractor shall document the finding.**

10. Kent Sussex Drawing M-G23:

- a. Detail #1 and 2 Ahu controls shows a DO point for the return air, relief air, and outdoor air dampers, as well as an AO point. Can we provide just an AO point? Should the OA, EA, and RA dampers also have an AI feedback point?

**Answer: The AO will suffice on the RA and OA Dampers, the RA and OA Dampers shall have an AI for damper status.**

11. Kent Sussex Drawings M-G24, G25

- a. Same question as above regarding air handler OA/RA/EA dampers.

**Answer: The AO will suffice on the RA and OA Dampers, the RA and OA Dampers shall have an AI for damper status.**

12. For the new CO sensors noted on drawings M-B21, M-C23, M-G22, as “Outside Air Sensors Controls Diagram”, are these the new boiler room carbon monoxide detectors rather than outside air sensors?

**Answer: Drawings M-B-21 & M-C23 should be labeled “CO Sensor Controls Diagram”. Drawing M-G22 correctly states this.**

13. For DC/TU, HC/DC, CH, and BBH notes shown on the floor plans, is the intent to replace the existing valve and its associated pneumatic actuator, or just install a new DDC/electric actuator on the existing valve?

**Answer: In Springer, the intent is to replace the valves and actuators for the BBH, CH, and hydronic HC/DC coils. In Kent/Sussex and Biggs only the actuators need to be replaced.**

14. Are there existing mechanical drawings available indication piping sizes for all areas where valves are to be replaced?

**Answer: Existing mechanical drawings have been provided in this Addendum.**



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15. There are a number of locations in Sussex where there are multiple BBH-1 in a hallway - drawing M-G15 for example. There is no indication on the drawings whether these are to be controlled as individual sections of BBH, or as a group where we have one valve/one room sensor for all 6 sections of BBH. The control detail shown on M-G22 suggests individual control of every BBH section, which I don't believe is how the existing Alerton System is configured.

**Answer: Drawings have been updated to show where multiple sections of BBH are to be controlled as a group.**

16. Sussex AHU-6 (drawing M-G19) is marked as Alt #3, but is not marked as Alt #3 in the flow diagrams.

**Answer: Sussex AHU-6 is to be bid as part of Alt #3.**

#### SUBSTITUTION REQUESTS

- Trane automated temperature controls was submitted as a substitute. Not enough information was provided on the system to allow this substitution.

#### GENERAL

**- Please use the following link to download the available mechanical drawings for the Kent/Sussex and Springer Buildings**

**<https://spaces.hightail.com/receive/a0SPvMhLF8>**

1. Addendum #3
  1. Addendum #3 (this document) (4 pages)
  2. Drawings (4 pages)
    - M-C22
    - M-G15
    - M-G17
    - M-G19
    - M-G20
  3. Available mechanical drawings (provided via link).

Summarized By: DEDC, LLC  
Matt Lano

Date: 07/09/18