



DEPARTMENT OF PURCHASING AND CONTRACT  
COMPLIANCE

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Felicia Strong-Whitaker, Interim Director

ADDENDUM NO. 2  
Invitation to Bid – 09ITB69082C-MT  
Building Automation System  
Fulton County, Georgia

August 24, 2009

Dear Vendors:

This addendum is in reference to the ITB – 09ITB690852C-MT  
Building Automation System Replacement

1. **Performance and Design Requirements is modified to include additional chilled water pump as shown below**

6.2 **Performance and Design requirements**

6.2.1 The new system must be DDC and must be capable of providing easy monitoring, adjustment, start/stop and calibration of the following installations

- One chiller with chilled water circulation and air cooled condenser
- Twenty Nine (29) Fan Coil units with cooling and heating
- Three (3) Supply fans
- Five (5) Exhaust Fans
- One (1) Chilled water pump.
- One (1) additional chilled water pump to be installed
- Two(2) heat-only PIUs to be added to the system on the first floor

**The “Sequence of Control” under Paragraph 6.2.3 is replaced by the following.**

**SEQUENCE OF CONTROL**

(A) **Fan Coil Units**

The Fan Coil Units (FCU) shall be activated by the system based on a pre-determined schedule.

When the unit is activated, a space sensor thru a stand alone local



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controller (SLC) will activate the unit supply fan, modulate the chilled water valve and enable the electric duct heat as required to maintain space temperature set point (76 cooling/69 heating)

The night setback and override features contained in the room sensor will override the building automation system and bring on their respective units should the space temperature fall below 55 degrees Fahrenheit or rise above 85 degrees Fahrenheit during "Off" hours occupancy. Override time for each system is individually programmable.

Each unit's status will be monitored by a current switch at the fan starter/contactors. If the unit status is other than the commanded state, a change of state alarm will be generated by the building automation system.

A differential pressure switch across the filter bank will monitor filter status and generate an alarm upon indication of a dirty condition.

A water detector located in the unit's condensate pan will generate an alarm if the water level rises too high. Upon indication of high condensate water level, the unit will de-energize.

A freeze sensor with averaging element across the cooling coil in each Fan Coil will shut down the outdoor air fans; energize the pump, Fan Coil unit fan and heater if the air entering the coil drops below 36 degrees Fahrenheit

(FCB-3 will serve as the back up for FCB-4. The controls will be adjusted to energize FCB-4 and FCB-3 in sequence to maintain the set point. FCB-3 will also be scheduled to maintain the room temperature in the storage area, in response to a separate temperature signal; T3.2. The two sensors' input will be wired in parallel to operate FCB-3 under both set point conditions. )

### (B) **Chilled Water System**

The Chilled Water System will be activated by the system controller based on a predetermined schedule.

Upon activation of the Chilled Water System, the chilled water



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pump will start first. Upon proof of flow via a flow switch, the chiller will be enabled to run. Chilled water pump status shall be monitored by the building automation system.

The stand-by chilled water pump must be capable of being started and stopped through remote activated controls.

Activation of the Chilled Water System during "Unoccupied" mode will be subject to individual zone sensors (night set back) and local override switches.

Chilled Water System will be activated any time the outside air temperature is above 85 degrees Fahrenheit.

(Chilled water supply and return temperature will be monitored by the Building Automation System. The system will generate an alarm upon any extreme conditions)

### (C) Fire Alarm Interlock

A fire alarm system contact will be monitored for any fire condition within the building. Upon notification of a fire alarm condition, the system controller will broadcast the condition and signal all air moving equipment to shut down

### (D) Ventillation Fans

Attic Ventilation Fans – This will be energized any time the attic temperature rises above 90 deg. Attic Fan status will be monitored through a current switch at the fan starter/contactors

Outside air fans – The outside air fans are activated by the system controller based on a pre-determined schedule and in the 'OFF' hours occupancy override mode. Each unit's status is monitored by a current switch at the fan starter/contactors. If the unit status is other than command state a change of state alarm will be generated by the BAS

A differential pressure switch across the filter bank will monitor the filter status and generate an alarm upon a dirty filter condition.

The out door air damper will close in the un-occupied mode and will open in the occupied mode during normal operation.



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Toilet Exhaust Fans – These are activated by the system controller based on a pre-determined schedule

(E) Air Curtain – The newly installed air curtain at the entrance must operate at extreme weather situations. The air curtain shall operate based on outside temperature 60 degree or less and 85 degree or above. The unit must be provided a manual over-ride switch

### **The Paragraph 6.2.11 will be modified as follows**

6.2.11 If any component in the mechanical system, like a valve or solenoid or a relay will need replacement as a result of the new control system, the same shall be accomplished as a part of this scope of work. Cost of these mechanical components must be included in the total price quoted, however details of such replacement showing the size, make and part number of each component must be separately included in the bid.

A schedule of valves as existing in the system is shown in the "valve schedule" attached below



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## **FULTON COUNTY** **PUBLIC DEFENDER'S OFFICE BUILDING** **HVAC System**

### **VALVE SCHEDULE**

UNIT	GPM	PRODUCT NUMBER	SIZE	TYPE	Cv	B
B-1	6.5	M3P20G/C2	3/4	2 WAY	5.8	2.89
B-2	2.0	3WI OGI 0-3CA	1/2	3 WAY	1.9	2.54
B-3	5.5	3W20G40-3CA	1	3 WAY	4.7	3.16
B-4	7.0	M3P20G/C2	3/4	2 WAY	5.8	2.91
B-5	3.0	3WI0G16-3CA	1/2	3 WAY	1.9	5.80
8-6	5.0	3W15G25-3CA	3/4	3 WAY	2.9	6.86
1-1	6.5	M3P20G/C2	3/4	2 WAY	5.8	5.54
1-2	6.5	M3P20G/C2	3/4	3 WAY	5.8	5.54
1-3	6.5	M3P20G/C2	3/4	3 WAY	5.8	5.54
1-4	6.0	M3P20G/C2	3/4	2 WAY	5.8	2.47
1-5	5.0	2W15G25K-2CA	3/4	2 WAY	2.9	6.86
1-6	8.0	M3P20G/C2	3/4	3 WAY	5.8	6.39
1-7	9.0	M3P20G/C2	3/4	3 WAY	5.8	5.54
1-8	1.5	2WI0GI0K-2CA	1/2	2 WAY	1.2	3.60
2-1	11.5	M3P25G/C2	1	3 WAY	9.3	3.51
2-2	5.5	3W20G40-3GA	3/4	3 WAY	4.7	3.22
2-3	7.5	M3P25G/C2	1	2 WAY	9.3	1.50
2-4	5.0	2W15G25K-2CA	3/4	2 WAY	2.9	6.86
2-5	6.0	3W20G40-3GA	1	3 WAY	4.7	3.76
2-6	4.0	3W15G25K-3CA	3/4	3 WAY	2.9	4.39
3-1	9.0	M3P20G/C2	3/4	3 WAY	5.8	5.54
3-2	10.5	M3P25G/C2	1	3 WAY	9.3	2.93
3-3	6.5	3W20G40K-3CA	1	3 WAY	4.7	4.42
3-4	5.0	3W15G25K-3CA	3/4	3 WAY	2.9	6.86
3-5	6.5	3WZOG40K-3CA	1	3 WAY	4.7	4.42
3-6	4.0	3W15G25-3CA	1/2	3 WAY	2.9	4.39
4-1	5.0	2W15G25K-2CA	3/4	2 WAY	2.8	6.86
4-2	7.5	M3P20G/C2	3/4	2 WAY	5.8	3.86
4-3	4.5	2W15G25K-2CA	1/2	2 WAY	2.9	5.56

NOTE: ALL VALVES COME WITH NPT UNIONS AND ACTUATOR



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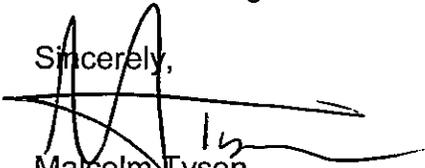


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For additional information regarding this addendum, contact Malcolm Tyson, Assistant Purchasing Agent at (404) 612-5811 or e-mail at [malcolm.tyson@fultoncountyga.gov](mailto:malcolm.tyson@fultoncountyga.gov).

The undersigned propose acknowledges receipt of this addendum by returning one (1) copy with their bid. Failure to return a signed copy of this addendum with your bid may render your bid to be non-responsive.

Except as provided herein, all terms and conditions in the bid referenced above remain unchanged and in full force and effect.

Sincerely,  
  
Malcolm Tyson  
Assistant Purchasing Agent

**ACKNOWLEDGEMENT OF ADDENDUM**

COMPANY NAME: \_\_\_\_\_

SIGNATURE: \_\_\_\_\_

TITLE: \_\_\_\_\_

DATE: \_\_\_\_\_