

INVITATION FOR BIDS



**FIRE STATION #3
IFB # 2010-3946-1905**

January 25, 2010
City of Newport News
Office of the Purchasing Director
2400 Washington Avenue
Newport News, VA 23607

Phone: (757) 926-8032/ Fax: (757) 926-8038

<http://www.nngov.com/purchasing>

Addendum 4

Please note the following changes:

Clarifications, questions/answers, and changes are on the following pages and shall be considered part of the specifications.

Acknowledge and return with bid.

Company Name: _____

Signature: _____ Date: _____

Please note the following questions & answers:

Question 1:

Reference 4/A8 and 12/S4: the 16" wall on columns line 'K', on 4/A8 shows a 16" CMU with 6" CMU at 2'-8" high. On 12/S4 it shows 4" and 12" CMU with 8" CMU at 4'-0" high. Please advise which is correct.

Answer 1:

Contractor shall provide 6" CMU to extend 3'-4" above the joist bearing elevation typical for all apparatus bay parapet walls and wall identified on section 4, sheet A8 and 12, sheet S4. Additionally, Details 1 and 2, sheet A9 shall be revised to require 20 courses of brick veneer of stacked bond color C. The exterior elevations are unchanged by these clarifications.

Question 2:

Is there a complete spec for Acoustical Ceilings? The grid specs are not specific enough as to the structural level. (ie. Light duty, intermediate duty or heavy duty grid).

Answer 2:

See Question 6, on Addendum #3 for the Ceiling Tile clarifications. Provide intermediate duty suspension system.

Please note the following clarifications:

1. Add to Table of Contents --- "15995 Commissioning of HVAC Systems". This section is included in the specifications but was not listed in the Table of Contents.
2. In Addendum #1, Question #16 was answered incorrectly. The answer should read: Specifications list Plymovent as the approved manufacturer. No substitutes will be allowed per our Conditions & Instructions.

3. Add the following:

1. Specification Section 15910, paragraph 1.7.1.c

Replace entire paragraph with the following:

“The City has three existing control systems. Provide a complete branded control system from one of the following to be compatible with existing system:

1. Carrier I-Vu
2. Honeywell Enterprise Buildings Integrator (EBI)
3. Delta Controls”

2. Specification Section 15910, paragraph 2.1.1.4 Stand-Alone Control

Replace entire paragraph with the following:

“Provide stand-alone digital controllers with Net/Web access.”

3. Specification Section 15910, paragraph 2.1.3.10 Alarming

Replace the last sentence of the paragraph “The following conditions shall generate alarms:” with:

“Alarm conditions shall initiate a text message to a designated cell phone and email account and be recorded to the computer. The contractor shall coordinate with The City which events shall generate alarms. At a minimum the DDC system shall generate an alarm for the following conditions:”

4. Specification Section 15910, paragraph 2.1.3.13 – Status Display

Add the following:

“Provide floor plan graphics with room names. Graphics to be coordinated with and approved by the City.

Operator Station Display: Coordinate points displayed on operator workstation display terminals with The City. At a minimum the operator workstation display terminals shall indicate status of all points shown on DDC control diagrams graphically and with dynamic text and shall also indicate the following:

1. DDC system graphic.
2. DDC system status, on-off.
3. Heating-water supply temperature.
4. Heating-water supply temperature set point.
5. Outdoor-air temperature.
6. Cooling (software) demand indication.
7. Time and time schedule.
8. Chilled-water pump(s) on-off indication.
9. Chilled-water flow indication.
10. Chilled-water supply temperature.
11. Chilled-water return temperature.
12. Chilled-water temperature control-point adjustment.
13. Chiller on-off status.

14. Chiller "failure-to-start" indication: signal alarm.
15. System capacity in tons.
16. Freeze protection alarm.
17. Supply-fan on-off indication.
18. Supply-fan-discharge static-pressure indication.
19. Supply-fan-discharge static-pressure set point.
20. Supply-fan airflow rate.
21. Supply-fan speed.
22. Return fan on-off indication.
23. Return-air static-pressure indication.
24. Return-air static-pressure set point.
25. Building static-pressure set point.
26. Building static-pressure indication.
27. Preheat-coil air-temperature indication.
28. Preheat-coil pump operation indication.
29. Preheat-coil control-valve position.
30. Mixed-air-temperature indication.
31. Mixed-air-temperature set point.
32. Mixed-air damper position.
33. Relative humidity indication.
34. Filter air-pressure-drop indication.
35. Filter low-air-pressure set point.
36. Filter high-air-pressure set point.
37. Fan-discharge air-temperature indication.
38. Fan-discharge air-temperature set point.
39. Boiler temperature (adjustable).
40. Boiler pump on-off indication.
41. Boiler on-off status.
42. Boiler capacity in BTU.
43. Room temperature indication.
44. Room temperature set point.
45. DDC system occupied/unoccupied mode.
46. Occupied Temperature: **adjustable**
47. Unoccupied Temperature: adjustable
48. VAV supply air CFM minimum.
49. VAV supply air CFM maximum.
50. VAV heat stage on-off indication."

5. Drawing M-8, Air Handling Unit Control Diagram, AHU-1 Control Sequence:

Replace entire "UNOCCUPIED MODE:" paragraph with the following:

"UNOCCUPIED MODE: AT TIMES WHEN THE BUILDING IS UNOCCUPIED, THE DDC SHALL CONTROL THE SYSTEMS TO MAINTAIN AN ADJUSTABLE NIGHT SETTING FOR BOTH HEATING AND COOLING. UNLESS OTHERWISE SPECIFIED, ALL OUTSIDE AIR DAMPERS AND RELIEF AIR DAMPERS SHALL BE CLOSED AND ALL EXHAUST FANS SHALL BE DE-ENERGIZED."

Replace the last sentence to the "Temperature Control:" paragraph with the following: "AT ANY TIME THE OUTSIDE AIR ENTHALPY AS SENSED BY THE DDC EXCEEDS THE RETURN AIR ENTHALPY OR THE OUTSIDE AIR HUMIDITY IS EQUAL TO OR GREATER THAN 85% (ADJUSTABLE), THE DDC SHALL CLOSE THE OUTSIDE AIR AND RELIEF AIR DAMPERS TO THEIR MINIMUM POSITIONS WHILE PROPORTIONATELY OPENING THE RETURN AIR DAMPER."

6. Drawing M-8, Hot Water System Flow Diagram, Hot Water Control Sequence:

Add the following:

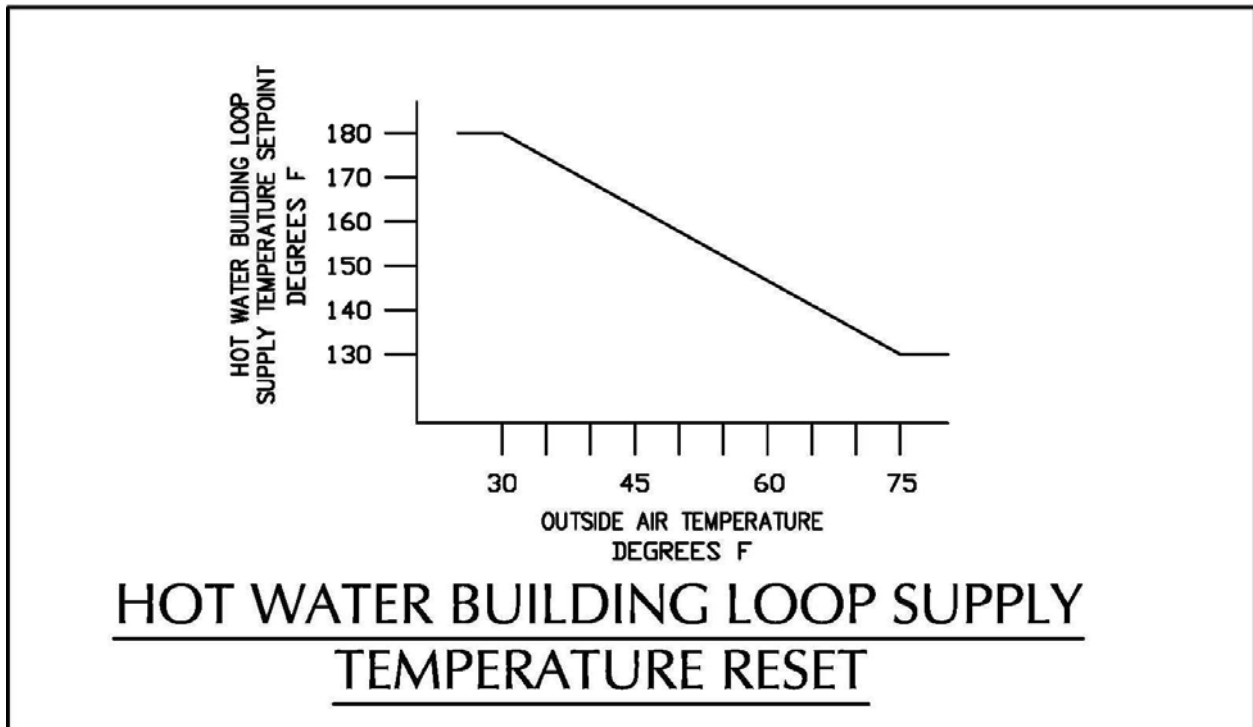
“Hot water building loop supply temperature reset:

Reset the hot water building loop supply temperature in straight-line relationship with the outdoor-air temperature for the following conditions:

- a. 180 degrees F hot water building loop supply temperature when outdoor-air temperature is 30 degrees F (adjustable).
- b. 130 degrees F hot water building loop supply temperature when outdoor-air temperature is 75 degrees F (adjustable).

The DDC shall reset the hot water building loop return water temperature setpoint up or down by 1°F increments at 10 minute intervals as required to maintain the building loop supply water temperature at setpoint.”

Add the following diagram to drawing M-8:



Add the following diagram to drawing M-8:

Additional Comments:

The contractor shall provide an add or deduct cost for the furnishing and installation of LED lighting fixtures. In lieu of the site lighting fixtures shown in the fixture schedule on sheet E-2: replace KIM fixture 'DD' with BEGHELLI GSLED-XX-MDB, or equal in performance and replace Lumiere fixture 'EE' with BEACON FL1-24W, or equal in performance.

In lieu of site lighting fixtures 'AA', 'BB' and 'CC', provide LED streetlight fixtures on 20-foot poles indicated on drawings. LED fixtures shall comply with performance specifications included below. Bidders shall submit **LED Fixture Quote Form** with bid. Successful bidder shall submit photometric point by point lighting layout included with his shop drawings, confirming compliance with City of Newport News General Lighting Standards. *Basis of design is: Beta STR LWY XX HT 08-C-UL-SV-R.*

LED PARKING LOT LIGHTING PERFORMANCE SPECIFICATION

Luminaire Description:

80 (10 individual LED's per light bar) LED streetlight, 120-277v, 525mA current drive, with an IESNA L70 of minimum 89,000 hours (@ 25 Degree C) as determined by independent testing laboratory, 140 watts, w/ NEMA 3R rated photo cell socket (as indicated), silver.

Specification for LED Lights:

1. All street lights will be modular design
2. Aluminum housing
3. Wet listed
4. UL listed
5. Product Family – STR
6. Housing – Street/LEDway – with Terminal Block for power input
7. Optics (IESNA Type II distribution) with Type III, Type IV & Type V Available
8. Initial delivered lumens – Minimum 9,200 at 525mA
9. Performance – LED-C with Nano-optic technology, no lens on housing
10. Voltage - 120/277VAC universal and 480VAC
11. Color – Silver (Optional Bronze, Black, White and Platinum Bronze)
12. Mounting –horizontal tenon to 2” with 5-degree +/- fixture leveling (w/leveling bubble)
13. Factory installed NEMA 3R photocell receptacle (as indicated)
14. LED Color temperature – 6000K standard (+/- 500K per fixture)
15. Minimum LED CRI of 70
16. Drive current 525mA, 80 LED, Minimum L70 life (hours) 89,000 (25-degree C)
17. Class 1 LED Driver - >90% Power Factor - <20% THD – 9K surge protection
18. Warranty – Minimum: 5 years on LED & Driver – 10 year on finish
19. RoHS Compliant – provide documentation
20. International Dark Sky Assoc. Approved – provide documentation.
21. Provide life data for LED System supported by IESNA LM-80 Data.

22. Provide Photometric Report per IESNA LM-79

LED Fixture Quote Form

Provide all data completely. Form must be included with bid.

Lighting Fixture Manufacturer	
Drive Current (ma for fixture quoted)	
L-70 Life (@ ma quoted)	
LED Module Manufacturer	
LED Warranty	
Driver Warranty	
Finish Warranty	
Elec. Driver Manufacturer	
Driver Input Voltage	
IES File Number	
Fixture Delivered Lumens	

Submitted By:

Date:

BID ITEM NO. 3

Lump sum cost for construction of the rainwater harvesting underground storage tank.

LUMP SUM COST _____Dollars

(\$ _____)

BID ITEM NO. 4

Allowance for bronze dedication plaque.

LUMP SUM COST _____Dollars

(\$ _____)

TOTAL BID (INCLUDE BID ITEM #1, BID ITEM #2, BID ITEM #3, and BID ITEM #4)

TOTAL LUMP SUM COST _____Dollars

(\$ _____)

OPTIONAL BID ITEM NO. 1

The cost amount to be added or deducted to the base cost for LED site lighting.

LUMP SUM COST _____Dollars

(\$ _____)

The Owner reserves the right to award the contract based in whole or in part of bid received.

BID ITEM NO. 3

Lump sum cost for construction of the rainwater harvesting underground storage tank.

LUMP SUM COST _____Dollars

(\$_____)

BID ITEM NO. 4

Allowance for bronze dedication plaque.

LUMP SUM COST _____Dollars

(\$_____)

TOTAL BID (INCLUDE BID ITEM #1, BID ITEM #2, BID ITEM #3, and BID ITEM #4)

TOTAL LUMP SUM COST _____Dollars

(\$_____)

OPTIONAL BID ITEM NO. 1

The cost amount to be added or deducted to the base cost for LED site lighting.

LUMP SUM COST _____Dollars

(\$_____)

The Owner reserves the right to award the contract based in whole or in part of bid received.