

**DESCRIPTION: North Charleston High School – HVAC Equipment Purchase**

Offeror is to submit a signed copy of this Addendum # 1 form with BID	
NAME OF OFFEROR <small>(Full legal name of business submitting the offer)</small>	
AUTHORIZED SIGNATURE  <small>(Person signing must be authorized to submit binding offer to enter contract on behalf of Offeror named above.)</small>	
TITLE <small>(Business title of person signing above)</small>	
PRINTED NAME <small>(Printed name of person signing above)</small>	
	DATE SIGNED

ACKNOWLEDGMENT OF AMENDMENTS	Amendment No.	Amendment Issue Date	Amendment No.	Amendment Issue Date	Amendment No.	Amendment Issue Date	Amendment No.	Amendment Issue Date
Offerors acknowledges receipt of amendments by indicating amendment number and its date of issue.  See "Amendments to Solicitation" Provision								
DISCOUNT FOR PROMPT PAYMENT See "Discount for Prompt Payment" clause	10 Calendar Days (%)	20 Calendar Days (%)	30 Calendar Days (%)	____ Calendar Days (%)				

**SEE NEXT PAGE**

AMENDMENTS TO SOLICITATION (a) The Solicitation may be amended at any time prior to opening. (b) Offerors shall acknowledge receipt of any amendment to this solicitation (1) by signing and returning the amendment, (2) by identifying the amendment number and date in the space provided for this purpose on Page Two, (3) by letter, or (4) by submitting a bid that indicates in some way that the bidder received the amendment. (c) If this solicitation is amended, then all terms and conditions which are not modified remain unchanged.

**Solicitation has been amended as follows:**

**FOR**

**NORTH CHARLESTON HIGH SCHOOL – HVAC EQUIPMENT PURCHASE**

**PREPARED BY:**

**CUMMING CONSTRUCTION MANAGEMENT, INC.  
3820 FABER PLACE DRIVE, SUITE 600  
N. CHARLESTON, SOUTH CAROLINA 29405**

**AND**

**RED IRON ARCHITECTS  
1305 ASHLEY RIVER ROAD  
CHARLESTON, SC 29407  
&  
OWENS AND ASSOCIATES, INC.  
1007 LAKE HUNTER CIRCLE  
MT. PLEASANT, SC 2965**

This addendum consists of the following attachments:

<b>ITEM</b>	<b>No. of Pages</b>
1. ADD Section 15412 – Gas Fired Water Heater	1

**SPECIFICATIONS**

**ITEM 1.1** Section 15412 Gas Fired Water Heater – Add section 15412 Gas Fired Water Heater.

**DRAWINGS**

**ITEM 1.2** Drawing M-3, Item 3 Mechanical and Plumbing Schedules and Details, Water Heater Schedule. Note: Water heaters 1, 2, 3, & 4 shall be as specified by state industries, or equal model DSE by A. O. Smith. Gas Water Heater 5 shall be as manufactured by PVI or Sellers.  
➤ Change note to read Note: Water heaters 1 & 2 shall be Turbopower as manufactured by PVI Industries or prior approved equal. See schedule for model numbers, capacities, and fuel types. Heater shall operate at a minimum of 83% thermal efficiency and meet the requirements of ASHRAE 90.1.

**QUESTIONS**

- ITEM 1.3**      **Question:** Since this is equipment purchase only is a GC# required?  
**Answer:** No.
- ITEM 1.4**      **Question:** Is a Performance Bond or Labor and Materials Bond required?  
**Answer:** No. Only Bid Bond.
- ITEM 1.5**      **Question:** There are not specs for the hot water heaters. Are they included in this bid?  
**Answer:** Yes.
- ITEM 1.6**      **Question:** Are curb adapters included in this bid, or will they be provided by the contractor during installation?  
**Answer:** Provided by GC during installation.
- ITEM 1.7**      **Question:** A possible rebate is available for the air cooled chiller. Is there a way to quantify this rebate in the bid? If so, who would be assigned the rebate?  
**Answer:** No rebate at this time.

***END OF ADDENDUM No. 1***

## SECTION 15412-GAS WATER HEATER

### 1.01 GAS WATER HEATER:

- A. General – Water heater shall be Turbopower as manufactured by PVI Industries or prior approved equal. See schedule for model numbers, capacities, and fuel types. Heater shall operate at a minimum of 83% thermal efficiency and meet the requirements of ASHRAE 90.1.
- B. Pressure Vessel and Heating Surfaces – The water heater shall be constructed and stamped in accordance with Section IV, part HLW of the ASME code. The storage section shall be rated for a working pressure of 125 PSI and pressure tested to 188 PSI. The heating section shall be rated for a working pressure of 150 PSI. The heat exchanger shall be a fire tube design with the combustion chamber and all heating surfaces completely water backed. The fireside of the combustion chamber shall be of boiler grade steel. The water side of the combustion chamber shall be non-ferrous. Fire tubes shall be solid copper.
- C. Tank Lining – Storage tank shall be plated with electroless nickel (EN). Plating shall occur after all fabrication and welding is complete. EN plating shall be coated by a high-dielectric-strength polymer overcoat. Sacrificial anode rods are not acceptable. Alternate prior approved manufacturers shall provide an all Silicon Bronze pressure vessel in lieu of EN plating as specified above.
- D. Burners and Venting – Combustion shall be provided by a UL listed forced-draft power burner and gas train at voltage as scheduled. Unit shall be equipped with the following safety controls at a minimum: Electronic flame safeguard with prepurge (600,000 to 3,200,000 BTUH burners), Two immersion operating thermostats, an immersion temperature limiting device, ASME Pressure and Temperature relief valve.
- E. Warranty – Entire unit shall be provided with a 5-year parts and labor warranty starting at project substantial completion. Additionally, the storage tank shall be covered for 20 years. Start up shall be performed by a factory authorized person with written report that installation is in accordance with manufacturer's requirements.
- F. Install round double wall gas vent through roof as manufactured by Metalbestos or approved equal. Size per manufacturer's requirements and the IFGC. See details. Mount water heater on equipment pad as detailed, and provide seismic support per specification 15890. Circulator shall be B&G PL-36B or equal by Grundfos, (3/4) bronze body, control by immersion aquastat. Control wiring shall be by the Plumber and shall comply with Section 16000 of this specification.

END OF SECTION 15412