

CIRCLE CITY ELECTRIC, INC

REQUEST FOR INFORMATION	PROJECT NAME: Huntington Beach School District -Kettler	RFI#: Pre-bid #1
	ARCHITECT'S PROJECT NO.:	DATE: 8/23/2017

TO: Construct One 1 ATTN: _____ ARCH. INITIALS: _____
 _____ FAX: _____ _____

Brief Summary of this RFI: (Provide attachment if additional space is needed)

The Electrical Plans do not show any power for the VAV's as shown in the Mechanical Plans. The Mechanical Plans do indicate that 120v power is to be provide by division 26, but the division 23 specs note than all control voltage is by the Mechanical contractor. See 230500 - 2.7 - H attached.

DRAWINGS REFERENCE: Elect & Mech SPEC REFERENCE: 230500-2.7-H

PROPOSED SOLUTION: (Provide Attachment If Additional Space Is Needed)

Per the A & E. Please advise.

IMPACT CONTRACT TIME: <u>No</u>	IMPACT CONTRACT PRICE: <u>Yes</u>
RESPONSE NEEDED BY: _____	SUBMITTER'S
WHY?(if less than 1 week): _____	SIGNATURE: <u>Ken Benner</u>

RESPONSE:

Specification section 23 36 00 paragraph 2.2, G. calls for 24 volt power for the Air Terminal Units. Electrical will need to provide circuts for controls in electrical panels.

I. Bayron CECI

DATE: <u>8/26/17</u>	ARCHITECTS SIGNATURE: _____
	Organization: _____
	Architects Initials: _____

VAV 1-1 through VAV 1-9 and VAV2-1 through VAV 2-5 shall be circuited to A-31. VAV3-1 through VAV 3-10 and VAV 4-1 through VAV 4-16 shall be circuited to B-59. Provide 3/4"C. 2#12 from each panel to the respective VAV boxes. The contractor to provide complete connections with disconnects to VAV boxes as required. See mechanical plans for quantity and approximate location(s). Verify exact location of VAV boxes with M.C. prior to rough-in.

1. Sherwin-Williams.
 2. Pittsburgh Plate Glass Co.
 3. Pratt and Lambert.
 4. Rust-Oleum.
- B. Materials:
1. Best grade for its purpose.
 2. Deliver in original sealed containers.
 3. Apply in accordance with manufacturers instructions.
 4. Heat resistant paint for hot piping, equipment and materials.
 5. Colors as selected.

2.7 TEMPERATURE CONTROL SYSTEM

- A. Provide a control panel with a programmable time clock that and can send start and stop signal to each air conditioning unit, each exhaust fans, the heating hot water pumps and the boiler. The panel shall be provided with lights that indicate which equipment have been energized (yellow light), which equipment is operating (green light), which equipment has been de-energized (red light) and flashing red light to show which equipment alarm condition.
- B. Variable air volume (VAV) reheat units will be control from room thermostats. When the associated AC unit is off line the VAV units shall go minimum position.
- C. During the warm cycle the AC Units will be on full recirculation (no outside air) and the VAV units will open to maximum flow setting and control heating hot water valve shall open to maximum setting. When zone thermostat reaches 70 degrees F., the thermostat will take control of VAV unit. Once the VAV units are satisfied the AC units will return to normal operation.
- D. The AC unit's onboard controls will manage discharge air temperature, fan speed, compressors, condensing fans, economizer cycle and transmit alarm conditions.
- E. The boiler onboard controls will manage the boiler circulating pump, hot water leaving temperatures and alarm conditions.
- F. Exhaust fan and pumps shall be provided with contract that indicate if the unit is in operation or offline.
- G. Provide BACnet compatible interface for central HVAC control panel for HVAC equipment.

- H. All conduit and wiring associated with the temperature control system, regardless of voltage, is included as part of this Section. Contractor shall obtain power for temperature control devices from the nearest available adequate source. Furnish all interlocks, power supplies, relays, and the like required to render the control system complete and functional for the intended use.

PART 3 - EXECUTION

3.1 HVAC DEMOLITION

- A. Refer to Division 01 Section "Cutting and Patching" and Division 02 Section "Selective Structure Demolition" for general demolition requirements and procedures.
- B. Disconnect, demolish, and remove HVAC systems, equipment, and components indicated to be removed.
 - 1. Piping to Be Removed: Remove portion of piping indicated to be removed and cap or plug remaining piping with same or compatible piping material.
 - 2. Piping to not be abandoned in place: Drain piping and cap or plug piping with same or compatible piping material.
 - 3. Ducts to be removed: Remove portion of ducts indicated to be removed and plug remaining ducts with same or compatible ductwork material.
 - 4. Ducts to be abandoned in place: Cap or plug ducts with same or compatible ductwork material.
 - 5. Equipment to be removed: Disconnect and cap services and remove equipment.
 - 6. Equipment to be removed and reinstalled: Disconnect and cap services and remove, clean, and store equipment; when appropriate, reinstall, reconnect, and make equipment operational.
 - 7. Equipment to be removed and salvaged: Disconnect and cap services and remove equipment and deliver to Owner.
- C. If pipe, insulation, or equipment to remain is damaged in appearance or is unserviceable, remove damaged or unserviceable portions and replace with new products of equal capacity and quality.

3.2 PIPING SYSTEMS - COMMON REQUIREMENTS

- A. Install piping according to the following requirements and Division 23 Sections specifying piping systems.
- B. Drawing plans, schematics, and diagrams indicate general location and arrangement of piping systems. Indicated locations and arrangements were used to size pipe and calcu-