



Henderson County Capital Projects

100 North King Street, Suite 206
Hendersonville, North Carolina 28792

Memorandum To: *All Interested Qualified Bidders*

From: *Martin Ballard*
Henderson County Public Schools Facilities/Maintenance Director

Subject: **Addendum #2: Clarifications of Drawings**
"2019-2020-Mechanical HVAC Upgrades to Flat Rock and Rugby Middle Schools", Henderson County/Henderson County Public Schools, Henderson County, NC

Date: *January 13, 2020*

Delta Engineering Inc.
315 East Broad Street (29601)
Post Office Box 8354 (29604)
Greenville, South Carolina
(Charleston: 3106 Riverine View, Charleston, SC 29414)
TEL: (864) 505-2976 and TEL: (864) 505-5358
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(Note: Addendum No. 1 was previously posted by Henderson County on the Henderson County Website under the RFP for this referenced Project)

This is Addendum No.2:

2019-2020 Mechanical HVAC Upgrades for Flat Rock & Rugby Middle Schools
Henderson County Public Schools, Hendersonville, Henderson County, North Carolina
Delta Engineering, Inc. Job No.: 19005 Date of this Addendum: January 12, 2020

To: HCPS FOR ALL BIDDERS From: Delta Engineering, Inc.

Owner: Henderson County for HCPS Date: January 13, 2020

For: Bidding on Referenced Job Total No./Addendum Pages: (2)

Ref Job: 2019-2020 Mechanical HVAC Upgrades - Flat Rock & Rugby Middle Schools
Henderson County Public Schools, Hendersonville, Henderson County, North Carolina

For Immediate Publication on Henderson County NC Website RFP's.

NOTE: All Bidders shall acknowledge their receipt of this Addendum to be listed as Bidder's acknowledged receipt on his/her Standard Bid Form.



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The following information and notations, specifications and data, sizes, etc. shall amend and shall be added to the specific requirements of the Bid Documents for the above referenced Project and shall become a part of the required work as a part of the whole work of the Bid Documents either by the below listed additions, deletions, changes and or otherwise indicated and become applicable as such for the Base Bid and Add Alternates.

1. FOR BOTH ELAT ROCK AND RUGBY SCHOOLS (Required on each school):

(a) GPS units shall be provided on all the VRV indoor units and All indoor units (“IDU’s”) of the VRV systems must include field installed “GPS, Inc”, Model GPS-FC24-AC Bipolar Ion Generators per the manufacturer’s specified data sheet for the GPS model unit.

(b) The last indoor unit on any VRV indoor branch selector (BS”) shall be connected to the last set of connections so as not to create a “dead-end” refrigerant piping circuit for the VRV system refrigerant.

(c) All VRV Indoor Unit Controllers shall be Daikin Navigation Type controllers.

(d) For the Add Alternate New Air-Cooled Water Chiller Replacement on each school, change the specified listed electrical starter types for the new Daikin Chiller machine to have “Across The Line” type starters and not “Part Winding” starters. Add to the new Chiller scheduled on the drawings the following items to be included options with the new Daikin-McQuay Chiller: High Ambient Control Panel with internal ventilating fan, Low Ambient Controls, Ground Fault Protection, Discharge – Liquid Line – Suction Isolation Valves, Condenser Coil Wire Grilles, Factory Installed Pre-Piped In-line Chilled Water Strainer, 5-Year Complete Parts, Refrigerant & Labor Warranty, and Factory Daikin Start-up By Factory Service Technicians, and Daikin Owner Training for the new Chiller machine.

2. FOR RUGBY MIDDLE SCHOOL VRV SYSTEM “CU-3”:

“CU-3” system design layout shown on drawing “RG-M1U” shall be modified as follows:

- (a) Change the Piping & Wiring for this system which shall be changed to show “IDU-3-8” served from the above ceiling “BS-3-2” and not served from “BS-3-1”.
- (b) Delete on “CU-3” system to be modified as deleting “IDU-3-14” and this indoor unit shall be removed from the piping & wiring diagrams as it does not exist on the plans.
- (c) On “CU-3” system and layout piping shown on drawing “RG-M1U”, the designed layout needs to be modified as follows:

(1) The “CU-3” unit on the roof and the first refrigerant piping branch down below the roof and above the indoor ceiling, coming down from the new “CU-3” condensing unit on the roof, shall be changed to move the above roof mounted “CU-3” unit location and the first refrigerant branch takeoff piping to a different location (*in a direction that is toward the right as shown on the design plan document, “RG-M1U”*) and this modified location is to be located at a distance down the corridor to be located at approximately 80-90-ft located just over corridor ceiling opposite the main entrance to the school. The location of the above ceiling “BS-3-“ also needs to be changed and moved to the right down the corridor opposite the room served by indoor unit “IDU-3-8”. These changes shall be a part of the required VRV systems Shop Drawings to be submitted to the Engineer after the Contract has been awarded and during the construction phase of the Project This shall be as required as redesigned for the



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system “CU-3” in the Daikin Xpress software and final design shop drawings submittals for the “CU-3” VRV System Report & CAD Drawings as part of the Shop Drawings submittal to the Engineer.

END OF ADDENDUM NO. 2.



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