

ADDENDUM NO.1

May 28, 2019

PROJECT NAME: Kershaw Middle School

The data included hereinafter is issued by the Engineer (Engineered Systems Associates, Inc. 1355 East Center, Pocatello, ID 83201) as clarification, addition to, and/or deletion from the Drawings, Specifications, and Contract Documents relative to the above-named project.

Except as affected by data included hereinafter, all other parts of the Contract Documents shall remain in full force and effect as issued by the Engineer. It shall be the sole responsibility of the Bidder to appropriately disseminate this data to all concerned prior to the assigned bid time and date. Receipt of the addendum shall be recorded by the Bidder in the appropriate space on the Bid Form included in the Contract Documents. **Acknowledge receipt** of this addendum in the space provided on the bid form. Failure to do so may subject the bidder to disqualification.

This addendum consists of _1_ pages and _2_ pg. attachment for a total of _3_ pages.

Specifications:

Add the attached section 23 5417: High Efficiency Natural Gas Furnace

Drawings:

Sheets M1.1 and M1.2 – Provide ¾ inch plywood or particle board “walk-way” from each access opening to the furnaces for service access. Attach to 2x’s with grabber screws at 24 ” oc. Minimum walkway width to be 36 inches.

Prior Approvals:

23 5417 – Furnace and Cooling Coils: Carrier
23 3000 – HVAC Air Distribution: NCA Manufacturing, Air-Rite Manufacturing
23 3114 – Low-Pressure Steel Ductwork: Pottorff
23 3714 – Air Inlets and Outlets: Tuttle & Bailey
23 5415 – Duct Heater (Separated Combustion): Modine, Airedale
23 6213 – Condensing Units: Carrier

See the Attached “Pre-Bid” sign-in sheet.

END OF ADDENDUM #1

SECTION 23 5417 – HIGH EFFICIENCY NATURAL GAS FURNACE

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings, General Provisions of Contract, including General and Supplementary Conditions and other Division 1 Specification Sections, and Section 23 0501 apply to this Section.

1.2 SUMMARY

- A. Furnish and install gas fired condensing high efficiency furnace as described in Contract Documents.

PART 2 - PRODUCTS

2.1 MANUFACTURED UNITS

- A. Fabrication:
 - 1. Furnaces shall be factory assembled units certified by AGA complete with blower section, furnace section, condensing coil, steel casing, piped, and wired.
 - 2. Blower section shall consist of cabinet, blower, and motor.
 - 3. Cabinet shall be of 22 gauge minimum cold rolled steel and have finish coat of baked-on enamel.
 - 4. Blower shall be Class 1, full DIDW, statically and dynamically balanced.
 - 5. Filters shall be one inch thick pleated throw-away type as furnished by furnace manufacturer.
 - 6. Provide furnace with accessory side mounted filter box frame and factory available bottom closure.
 - 7. Automatic controls:
 - a. 100% cut-off safety pilot
 - b. Manual gas shut-off valve
 - c. Operating automatic gas valve
 - d. Solid state type fan and thermal limit controls
 - e. 24 volt transformer
 - f. Electronic ignition system
 - g. Pressure switch safety for induced draft fan
- B. Units:
 - 1. Blower shall be driven by motor with adjustable pitch V-belt drive or by a multi-speed direct driven motor.
 - 2. Furnace section shall be enclosed in 22 gauge minimum enameled steel casing lined with foil covered insulation.
 - 3. Heat exchanger shall be ceramic or glass coated, stainless steel, or 18 gauge aluminized steel with 20 year minimum limited warranty.
 - 4. Units shall be rated at 93% minimum AFUE (Annual Fuel Utilization Efficiency) calculated in accordance with DOE test procedures.
 - 5. 2" or 3" intake and exhaust lines to outside with factory furnished combination flue/intake assembly for roof or sidewall.
- C. Approved Manufacturers:
 - 1. Lennox
 - 2. Carrier
 - 3. York
 - 4. Trane

PART 3 - EXECUTION

3.1 FIELD QUALITY CONTROL

- A. Quality Assurance: Furnace manufacturer's representative shall start up and check out furnace equipment as follows:
 - 1. Verify proper gas orifice sizing for altitude.
 - 2. Clock gas meter for rated input.
 - 3. Verify and set gas pressure at furnace.
 - 4. Check and measure temperature rise.
 - 5. Check safety controls for proper operation.

END OF SECTION 23 5417



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JOB: Kershaw Middle School
SHEET NO. _____ OF _____
PREPARED BY: _____ DATE 5/21/19
CHECKED BY: _____ DATE _____
SCALE _____

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