



CITY OF HOUSTON

Administration and Regulatory Affairs Department
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June 14, 2013

Subject: Letter of Clarification No. 1 to Invitation to Bid No. S50-C24623 to Furnish and Install Heating Ventilation and Air Conditioning Systems and Associated Equipment for the General Services Department

To: All Prospective Bidders:

This letter of Clarification is being issued for the following reasons:

- **To revise Section "B" Scope of Work/Technical Specifications, revise the Electronic Bid Form and respond to questions posed by perspective bidders:**

- 1) Remove Page Nos. 10 & 11 of 67 and replace with Page Nos. 10 & 11 of 67 marked, REVISED 6/14/2013.
- 2) See the revised Electronic Bid Form.
- 3) The following questions and City of Houston responses are hereby incorporated and made a part of the Invitation to Bid:

Question No 1: On sheet M2.0, the A/C schedule shows AHU#2 for the East zone to be 230 volt 1 phase. Should it not be 230 volt 3 phase?

Answer: The specified AHU #2 must be 230 volt 3 phase.

Question No 2: On sheet M2.0, the schedule asks for an outside air intake duct on the return air ducts for both units. The new equipment will have motorized outside air dampers on it per the City of Houston Mechanical Code. Are these outside air intake ducts necessary?

Answer: If the outside intake ducts are not provided by the manufacturer with the new equipment, the Contractor shall be required to provide as specified.

Question No 3: On sheet M2.0, the schedule asks for a smoke detectors to be installed in the return air duct. The new equipment can come with smoke detectors installed in the equipment. Are these smoke detectors in the ductwork necessary?

Answer: Yes. Smoke detectors are required as specified.

Question No 4: On sheet M1.0, it notes to route the primary condensate drain line to existing storm inlet in grass area. Upon inspection of the site there is no inlet. Where do we need to route the drain?

Partnering to better serve Houston

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Answer: This particular condensate line will be installed by the City of Houston. See the attached revised Page No. 11 of 67 marked, REVISED 6/14/2013.

Question No 5: On sheet M1.0, on the mechanical legend note #22 asks for a 6" concrete equipment pad to be provided by the general contractor, but on the drawing at the units says contractor to provide. Does the mechanical contractor need to include it or is this going to be taken care of by the general contractor?

Answer: The specified equipment concrete pads will be installed by City of Houston.

Question No 6: On sheet M1.0, it asks to install new 12"x30" deep French Drain for AHU-3 & 4. There is no AHU-3 & 4. What is the purpose of this drain?

Answer: The City will supply the Contractor with a drain for the package wall HVAC unit shown on Drawing Page No. M1.0. The Contractor is responsible for the condensate line. (DELETE THE 12 INCH BY 30 INCH FRENCH DRAIN SHOWN on Sheet M1.0). See the attached revised Page No. 11 of 67 marked, REVISED 6/14/2013.

Question No 7: On sheet M1.0, it gives combustion air calculations for the gas water heater. Is the mechanical contractor installing the gas water heater? Does the mechanical contractor need to core the opening for the combustion air and provide air louvers or is this all done by the plumbing contractor?

Answer: The specified water heater will be supplied and installed by the City of Houston, including flu and roof penetration. The Contractor is responsible for combustion air wall penetration and air louvers. See the attached revised Page No. 11 of 67 marked, REVISED 6/14/2013.

Question No 8: On sheet M2.0, detail 10, note 3 asks to wrap the exterior ductwork with aluminum jacketing after insulating. The preferred and recommended practice for exposed ductwork is for it to be double wall ductwork. Attached is a brochure of double wall ductwork and here is the link: http://www.smcduct.com/sites/default/files/rect-dbl-wall-catalog_0.pdf

Answer: The specified aluminum jacketing is required.

Question No 9: On sheet M1.0, the mechanical legend number 17 asks for the condensate pipe to be PVC in ducted return installs and copper in the return air plenum installs. These units are located outside of the building. What type of material for the condensate pipe shall be required?

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Answer: This particular condensate line will be installed by City of Houston. See the attached revised Page No. 11 of 67 marked, REVISED 6/14/2013.

Question No 10: Does the independent test and air balance have to be a certified or non certified report?

Answer: An independent test & air balance certified report is required.

Note: No further questions will be accepted after the publication of this Letter of Clarification.

When issued, Letter(s) of Clarification shall automatically become a part of the solicitation documents and shall supersede any previous specification(s) and/or provision(s) in conflict with the Letter(s) of Clarification. All revisions, responses, and answers incorporated into the Letter(s) of Clarification are collaboratively from both the Strategic Purchasing Division and the applicable City Department(s). It is the responsibility of the bidder/respondent to ensure that it has obtained all such letter(s). By submitting a bid on this project, bidders/respondents shall be deemed to have received all Letter(s) of Clarification and to have incorporated them into this solicitation and resulting bid.

Furthermore, it is the responsibility of each Contractor to obtain any previous Letter of Clarification associated with this solicitation.

Arturo Lopez

Arturo Lopez
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Attachment: Revised Page Nos. 10 & 11 of 67

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Furnish and Install Heating Ventilation and Air Conditioning Systems and Associated Equipment for the General Services Department

SECTION B *REVISED 6/14/2013*
SCOPE OF WORK/TECHNICAL SPECIFICATIONS
PART I

1.0 Summary of Scope of Work:

GENERAL SCOPE OF WORK FOR BID LINE ITEMS NOS. 1, 2, 3, 4, 5 & 6 (See Part II for Technical Specifications)

- 1.1 **Item No. 1** The Contractor shall be required to furnish one new 12.5 Ton heating ventilation and air conditioning (HVAC) package system including wall penetrations and associated equipment in strict accordance with the technical specifications in Part II.
- 1.2 **Item No. 2** The Contractor shall be required to furnish one new 5 Ton heating ventilation and air conditioning (HVAC) package system including wall penetrations and associated equipment in strict accordance with the technical specifications in the mechanical drawings in Part II.
- 1.3 **Item No. 3** The Contractor shall be required to furnish one new 11,500 BTU terminal packaged (all incased) wall air conditioning unit (AC) system and associated equipment in strict accordance with the technical specifications in the mechanical drawings in Part II.
- 1.4 **Item No. 4** The Contractor shall be required to furnish three new 50,000 BTU Infrared gas heater systems and associated equipment in strict accordance with the technical specifications in the mechanical drawings in Part II.
- 1.5 **Item No. 5** The Contractor shall be required to furnish one new carbon monoxide exhaust system and associated equipment in strict accordance with the technical specifications in the mechanical drawings in Part II.
- 1.6 **Item No. 6** The Contractor shall be required to furnish eight new exhaust fan systems and associated equipment in strict accordance with the technical specifications in the mechanical drawings in Part II.

2.0 SCOPE OF WORK FOR BID LINE ITEM NO. 7:

- 2.1 **Item No. 7** The Contractor shall be required to provide all labor, materials, equipment, supervision, tools and transportation necessary to install, in strict accordance with the manufacturer's recommended installation methods and applicable federal, state, local codes and regulations, one new 12.5 Ton and one new 5 Ton HVAC system, one new 11,500 BTU packaged (all incased) terminal wall AC system, three new 50,000 BTU Infrared gas heater systems, one new carbon monoxide exhaust system, eight new exhaust fan systems and one new kitchen hood system and associated equipment at Fire Station No. 29 located at, 4831 Old Galveston Rd., Houston, TX, 77017.

3.0 SCOPE OF WORK FOR BID LINE ITEM NO. 8:

- 3.1 **Item No. 8** *The Contractor shall be required to provide all labor, materials, equipment, supervision, tools and transportation necessary to provide and install all duct work systems for all equipment in strict accordance with the*

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manufacturer's recommended installation methods and applicable federal, state, local codes and regulations at Fire Station No. 29 located at, 4831 Old Galveston Rd., Houston, TX, 77017.

- 3.2 *The Contractor shall be required to begin rigid duct work and insulation installation within 10 days after receipt of the Notice to Proceed. Failure shall result in liquidated damages of \$300.00 per day.*
- 3.3 *Failure to complete all duct work and insulation installation within 24 days after receipt of the Notice to Proceed shall result in liquidated damages in the amount of \$300.00 per day.*
- 3.4 *The City will supply the kitchen vent hood and the Contractor is responsible for the installation of vent hood and for providing and installing all associated venting equipment.*
- 3.5 *The City provide and install the new gas water heater and associated flu and roof penetration shown on Drawing Page No. M1.0.*
- 3.6 *the City will supply the Contractor a primary drain access for the package wall HVAC unit shown on Drawing Page No. M1.0. The Contractor shall be responsible for the flow to the condensate line. (DELETE THE 12 INCH BY 30 INCH FRENCH DRAIN SHOWN).*
- 3.7 The new 12.5 Ton and 5 Ton HVAC package systems, one 11,500 BTU packaged terminal wall air conditioning unit, three new 50,000 BTU Infrared gas heater systems, one carbon monoxide exhaust systems, eight exhaust fans and one kitchen hood and associated equipment must be able to be installed with no/minimal modifications to the existing infrastructure. Any modifications required to install the new equipment to the existing infrastructure shall be the responsibility of the Contractor at no additional cost to the City.
- 3.8 The work shall include all materials, accessories, and apparatus not specifically mentioned in specifications or noted on the plans, but which are necessary to make a complete working installation of all systems shown on the plans or described in the specifications and letters of clarification.
- 3.9 Work consists of, but is not limited to:
 - 3.9.1 HVAC
 - 3.9.1.1 (2) Packaged HVAC systems, 12.5 ton and 5 ton
 - 3.9.1.2 Ductwork systems
 - 3.9.1.3 Grilles, diffusers, louvers
 - 3.9.1.4 (1) Packaged Terminal Wall AC unit.
 - 3.9.1.5 (3) Infrared gas heaters.