

BID DIVISION DESCRIPTION

**BID DIVISION HFH – 23B: Heating**

EXCLUDED: 1. Electrical and controls wiring – boiler.

INCLUDED: Furnish and install complete residential in-floor heating system to include, but not restricted to:

Provide all labor, materials, equipment and site supervision to complete the HVAC installations as shown and specified, including but not limited to the following technical specification sections:

1. 23 21 13

ALSO INCLUDED:

1. Required permits, inspections and certifications
2. Functioning systems upon the completion of construction
3. Compliance with all applicable Building Codes
4. All penetrations or core drilling required
5. Layout of all work
6. All labor and equipment to unload material
7. Cutting and patching required for all openings
8. Verify existing site conditions
9. Coordination with other trades
10. This project is managed by HFHDC. All contractors on this project are considered prime contractors. Coordination between trades and volunteers is to be considered part of this work scope.

PRICING FORM:

Our Lump sum Base Bid for the work in Bid Division HFH – 23B is:

Per Three Bedroom Home

\_\_\_\_\_ Dollars (\$ \_\_\_\_\_)

Name of Bidding Contractor: \_\_\_\_\_

Signed By: \_\_\_\_\_ Date: \_\_\_\_\_

## SCOPE OF WORK

Furnish and install a complete residential in-floor heating system to include, but not restricted to:

All materials and labor for in-floor heating system installation including, but not limited to:

- Appropriate sized boiler as per Manual J, to be operated off-peak, ALP
- Install tubing on insulating foam in coordination with other subs
- Separate loops for: bedrooms, bathroom, living room, kitchen/dining room on single thermostat
- Manifold to be brass with manual flow adjusting valve and visual flow indicator for each loop
- Piping from boiler to manifold shall be copper
- System to be filled with 50% propylene glycol solution
- Air eliminator to be Spiro Vent or approved equivalent that removes micro bubbles without spitting water
- Provide all fittings and controls, pumps and items needed for complete installation, including a name brand thermostat.

Any questions concerning the requirements or work of this project may be directed to the address listed above or by e-mail to: [randy@hfhdouglascounty.org](mailto:randy@hfhdouglascounty.org) or phone 320-762-4255 ext 104.

END OF SECTION 22 05 01