



15 Federal Road
Danbury, CT 06810

October 6, 2011
ab@preferredair.net

SM-1 License # 0004764
CT. LICENSE #390594

Phone (203) 778-6286
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WE ARE PLEASED TO SUBMIT TO YOU THE FOLLOWING PROPOSAL for Berkeley Construction LLC. @ Groff Residence.

WE HEREWITH SUBMIT SPECIFICATIONS AND ESTIMATE FOR purchase and installation of the following equipment for a complete new 4-zone heating & air conditioning system:

INITIAL

RHEEM 90+ DIRECT VENT CONDENSING GAS FURNACE SYSTEM: \$37,937.

- 1 Rheem Furnace RGRS12EMAES 90+% AFUE Upflow Gas Fired Furnace.
- 1 Rheem Furnace RGTS12EMAES 90+% AFUE Horizontal Gas Fired Furnace.
- 2 Gas LP Kit.
- 2 Rheem AJN060 Series (10 tons) 13 SEER high efficiency Puron condensers.
- 2 RCFLHN60 Cased Horizontal & Vertical Evap Coils.
- 2 Aprilaire Zone control systems.
- 2 Aprilaire 8363 digital programmable thermostats.
- 2 Line set (60' max) & PVC condensate removal piping.
- 2 PVC Direct Vent piping & concentric kits.
- Galvanized ductwork air distribution system and exhausts for kitchen, bathrooms & dryer.

CLIMATEMASTER 2-STAGE CLOSED LOOP GEOTHERMAL SYSTEM: \$82,500.

Federal tax credit 30% of Geothermal install & associated work:

Groffs may take up to a 30% tax credit (verify specifics with their tax professional), but we speculate approx. \$27,000 total tax credit is achievable or more with associated constructions costs. Please call to discuss.

CEEF residential utility rebate:

\$500 / ton capped at 3 tons for a total of \$1,500. Other incentives may be available depending on calendar year work is performed. Requires HER rating and / or Home energy solution qualification to be met.

Return on investment from base fossil fuel system install is 3-5 years. Detailed cost analysis can be done upon request.

2-STAGE PACKAGE GEOTHERMAL SYSTEMS:

- 2 ClimateMaster Tranquility TT Series Copper Coil, 2-Stage R-410, ECM motor.
- 2 Aprilaire Zone control systems.
- 2 Aprilaire 8363 digital programmable thermostats.
- Galvanized ductwork air distribution system and exhausts for kitchen, bathrooms & dryer.

Geothermal Wells Scope of Work:

Vertical Closed Loop Geothermal Well fields for ground heat exchange.

Grout boreholes with Thermal Conductive grout.

Geothermal loop piping, trim / glycol & PVC condensate removal piping.

OUR WORK IS TO INCLUDE, Installing all the above equipment providing one new forced hot air heating and air conditioning zone to service the finished basement level, one new zone to service the main level, and two new zone to service the upper level. Installing all equipment & materials in accordance with manufacturer specifications, codes & PAS design. All units, piping, and ductwork will be discussed, designed, and installed in specified location in accordance with owner & PAS. It is our intent to achieve a system that will perform with the highest efficiency while being as inconspicuous as possible. New main supply and return air ducts shall be galvanized metal and shall have foil wrap insulation and or acoustical liner for quiet operation (no duct board will be used on this project). Class I foil flexible ducts will be used for branch run-outs with adjustable volume air dampers to facilitate air balancing at branch take-offs. Entire HVAC system will be started, tested, and balanced for proper efficient operation. Will tie in all low voltage control wiring all ready run by electrician and all high voltage will be done by others.

Other Trades: In carrying out PAS work the GC shall take necessary precautions to protect the finished work of this subcontractor from other trades.

NOTE: HVAC sizing is to finish areas according to drawings dated 12-28-12, basement level, main level & upper level finished areas only. Finishing off other areas and /or upgrading insulation values will alter the HVAC load. Please call for sizing & pricing of any potential changes accordingly.

Exclusions: Cutting/patching/sealing for penetrations through roof or masonry (coordination only), carpentry work, exhaust/venting equipment, combustion air, permit filing fees, domestic water connections, indirect waste drain line, gas piping/tank, long line set runs /PVC conduit for underground line sets, excavation/trenching, lead coated copper or copper vents/louvers, temporary heating/cooling during construction phase & duct cleaning can be done on a [redacted] basis. Wood or architectural floor registers/grills priced upon request.

Purchaser agrees to make payments to:

PREFERRED AIR SYSTEMS, INC.

15 Federal Road
Danbury, CT. 06810

Payments to be made as follows: 30% down payment & progress payments thereafter based on PAS percentage of work complete.

ACCEPTANCE OF ESTIMATE

The following terms, specifications and conditions are satisfactory and the same are hereby accepted and agreed upon on the _____ day of _____, 2013, and you are hereby authorized to execute the same. One-year warranty on labor, installation and equipment (from start up of equipment), plus manufacturer's warranty. Our standard terms are stated above. All invoices are due upon receipt. Past due payments are subject to a 1.5 % service charge per month on all invoices 30 days after the date in which they are invoiced. Buyer agrees to pay reasonable attorney's fees of unpaid balance when turned over for collection.

*****VOID AFTER 30 DAYS & PRICES SUBJECT TO CHANGE WITHOUT NOTICE*****

PURCHASER: _____

OPTIONS

INDOOR AIR QUALITY PRODUCTS:

One Aprilaire 2000 series high efficiency media air cleaner and installation,
Please add \$425 ea to quote.

One Aprilaire 400 automatic humidifier for basement FHA unit and installation,
Please add \$750 to quote.

One Aprilaire 800 steam humidifier for basement FHA unit and installation,
Please add \$1,920.

One Aprilaire single lamp ultraviolet germicidal unit and installation,
Please add \$500 ea to quote.

One Aprilaire 1700 ducted dehumidifier system and installation,
Please add \$2,600 to quote.

One Aprilaire energy recovery ventilator and installation,
Please add \$2,700 to quote.

An energy recovery ventilator (ERV) is a type of mechanical equipment that features a heat exchanger combined with a ventilation system for providing controlled ventilation into a building.

If a house is constructed tighter than 0.5 air changes per hour, any pollutants generated in the home can accumulate and reduce the indoor air quality to unhealthful levels. If fresh outside air is brought in through an open window to alleviate this problem, this air may be excessively hot, cold or humidity-laden and require conditioning at added expense.

The benefit of using energy recovery is the ability to meet the [ASHRAE](#) ventilation & energy standards, while improving [indoor air quality](#), and reducing total HVAC equipment capacity.

GARAGE HEAT:

One Modine Hot Dawg HD-45 unit heater and installation,
Please add \$1,950 to quote.

GEOHERMAL HOT WATER GENERATOR ACCESSORY & HOOK UP TO HOT WATER HEATER:

May be priced upon request.

CONSTRUCTION MAINTENANCE / CLEANING:

Professional cleaning of HVAC system during construction,
May be priced upon request.

PREVENTIVE **SERVICE** MAINTENANCE CONTRACT:

Precision tune up and professional cleaning of HVAC system once a year,
May be priced upon request.

Start Date Information:

Please sign and date proposal to confirm price & approval of the project & circle any options you desire then mail, email or fax to office at 203-778-6289. A start date can be schedule upon receipt of a confirmation & down payment. If you have any questions please call me at 203-778-6286 or cell 203-948-6016.

Thank you for the opportunity to bid this project,
Anthony Biasetti VP
Preferred Air Systems, Inc