Knaggs Construction
Minden House | Kearney, NE | KnaggsConstruction.com

“We have fallen in love with our new, very comfortable home.” Home owner

PROJECT DATA

• Layout: 7 bdrm, 4.5 bath, 1 fl + bsmt, 4,566 ft²
• Climate: IECC 5A, cold
• Completed: May 2016
• Category: custom for buyer

MODELED PERFORMANCE DATA

• HERS Index: without PV 35
• Projected Annual Energy Costs: without PV $1,545
• Projected Annual Energy Cost Savings: (vs home built to 2009 IECC) without PV $1,859
• Annual Energy Savings: without PV 26,073 kWh

KEY FEATURES

• Walls: 2x6, 24 o.c., 5.5” R-23.5 dense-packed fiberglass, .5” OSB, house wrap, engineered wood siding.
• Roof: Engineered trusses, raised heel, synthetic felt, ridge vents, composite shingles.
• Attic: Vented with R-44 14” blown cellulose, OSB baffles sealed to top plates.
• Foundation: Basement with concrete footings poured in stay-in-place plastic drain pipe forms, concrete walls, R-4.5 blown fiberglass behind 2x4 16” o.c. walls with R-19 cavity insulation.
• Windows: Dual-pane, low-e, argon-filled, U=0.27, SHGC=0.21.
• Air Sealing: <1 ACH 50.
• Ventilation: ERV, MERV 12 filter, bath exhaust fans.
• HVAC: Ground source heat pump, 5.1 COP, 24 EER, all ducts inside.
• Hot Water: 80-gal heat pump water heater, 2.33 COP.
• Lighting: 90% LED, 10% CFL.
• Appliances: ENERGY STAR refrigerator, dishwasher, clothes washer and dryer.
• Solar: None.
• Water Conservation: Water heater centrally located, low-flow fixtures.
• Energy Management System: Internet-controlled thermostat and water heater.
• Other: Low-VOC paints, CRI green-labeled carpet.

CONTACT

Gene Knaggs
geneknaggs@hotmail.com
308-236-5097

For more information on the DOE Zero Energy Ready Home program, go to http://energy.gov/eere/buildings/zero-energy-ready-home or scan the QR code.