



# Thrive Home Builders

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"I like the electricity bill, which is way less than...my old rental home." *Home owner*



## PROJECT DATA

- **Layout:** 2 bdrm, 2.5 bath, 2 fl, 1,725 ft<sup>2</sup>
- **Climate:** IECC 5B, cold
- **Completed:** April 2018
- **Category:** affordable

### MODELED PERFORMANCE DATA

- **HERS Index:** without PV 48; with PV 28
- **Annual Energy Costs:** without PV \$850; with PV \$450
- **Annual Energy Cost Savings:** (vs typical new homes) without PV \$1,150; with PV \$1,600
- **Annual Energy Savings:** without PV 6,300 kWh, 400 therms; with PV 15,300 kWh, 400 therms
- **Savings in the First 30 Years:** \$78,000

## KEY FEATURES

- **Walls:** Double walls, 2x6 exterior and 2x4 interior 24" o.c. advanced framed, staggered studs; 10" R-40.7 blown fiberglass. Sprayer-applied sealant; 1/2" OSB; corrugated house wrap; fiber cement siding.
- **Roof:** Ice-and-water shield; waterproof underlayment; metal drip edge; 30-yr asphalt shingles.
- **Attic:** Vented attic; R-50 blown fiberglass; 14" raised heel trusses; sealed top plates.
- **Foundation:** Slab on grade, R-10 slab edge insulation.
- **Windows:** ENERGY STAR double-pane, argon-filled, vinyl frames; U=0.28, SHGC=0.41.
- **Air Sealing:** 3.2 ACH 50.
- **Ventilation:** Continuous exhaust fan, meets ASHRAE 62.2.
- **HVAC:** 92.1% AFUE furnace, 13 SEER air conditioner; mastic-sealed ducts in conditioned space.
- **Hot Water:** Tankless gas water heater, .97 EF.
- **Lighting:** 100% LED.
- **Appliances:** ENERGY STAR-rated refrigerator, dishwasher, and 4 exhaust fans.
- **Solar:** 2.56-kW PV system.
- **Water Conservation:** WaterSense fixtures, recirculation pump, drought-tolerant and climate-specific plants.
- **Energy Management System:** Internet-based tracking of PV production.
- **Other:** Low-VOC paints, low-formaldehyde wood; WUFI modeled wall designs.

## CONTACT

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