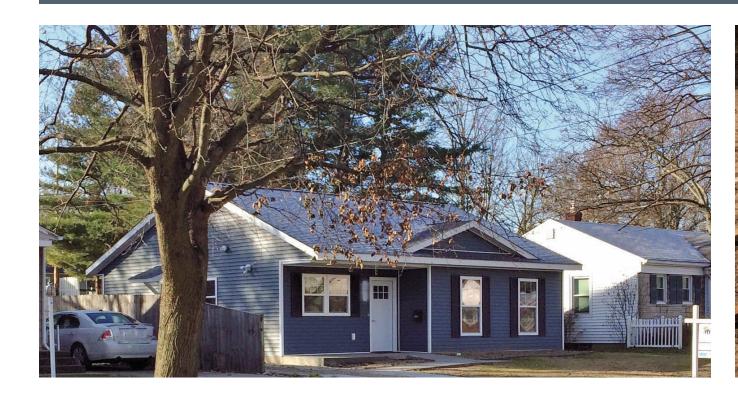


Kalamazoo Valley Habitat for Humanity

Kalamazoo Infill Home | Kalamazoo, MI | HabitatKalamazoo.org













PROJECT DATA

• **Layout:** 3 bdrm, 1 bath, 1 fl, 1,032 ft²

• Climate: IECC 5A, cold

• Completed: November 2017

Category: affordable

MODELED PERFORMANCE DATA

- HERS Index: without PV 46; with PV NA
- Annual Energy Costs: without PV \$750; with PV \$NA
- Annual Energy Cost Savings: (vs typical new homes) without PV \$450; with PV \$NA
- **Annual Energy Savings:** without PV 1,700 kWh, 50 mcf; with PV NA
- Savings in the First 30 Years: \$20,900

CONTACT

Tom Tishler 269-344-2443 ttishler@habitatkalamazoo.org

KEY FEATURES

- Walls: 2x4 studs 24" o.c. staggered on 2x6 plates, advanced framed, 2" R-10 XPS sheathing; in cavity 2" R-10 XPS plus R-13 fiberglass batt; house wrap, vinyl siding.
- **Roof:** Asphalt shingles; taped $\frac{1}{2}$ " OSB, ice-and-water shield installed over roof edge and subfascia, and 6' up from eaves.
- Attic: Vented attic with 16" energy heels. Metal HRV ducts in the attic encapsulated in 2" R-14 closed-cell spray foam and covered with 16-18" R-60 of blown cellulose.
- **Foundation:** 16x16" footing foundation grade beam poured into 2" R-10 XPS forms; topped with R-10 XPS under slab. R-10 slab edge continuous insulation up exterior walls.
- Windows: Triple-pane, low-e, argon-filled, vinyl frames, U=0.22, SHGC=0.25.
- **Air Sealing:** 2.72 ACH 50.
- Ventilation: HRV, bath fan with motion and dew point sensors.
- **HVAC:** 97% AFUE furnace with modulating ECM motor and gas burner. Smart controller monitors humidity and temperature. All ducts in conditioned space.
- Hot Water: 98% AFUE condensing tankless; insulated hot water lines.
- Lighting: 100% LED.
- Appliances: ENERGY STAR-rated refrigerator, ENERGY STAR range.
- Solar: Solar ready.
- Water Conservation: ½" PEX hot water lines; compact plumbing design.
- Energy Management System: Smart thermostat.
- Other: No-VOC caulks, adhesives, and finishes; low-VOC paint and flooring; on-site recycling; universal design. WUFI modeled wall design. Extra wall strapping and attic bracing.





