



Photos courtesy of Charis Homes

“Within a week of moving in, our son’s cough started to clear up and he was acting like himself again.” Homeowner



PROJECT DATA

- **Layout:** 3 bdrm, 2 bath, 1 fl + bsmt, 4,468 ft²
- **Climate:** IECC 5A, cold
- **Completed:** May 2020
- **Category:** Custom Spec

MODELED PERFORMANCE DATA

- **HERS Index:** without PV 43
- **Annual Energy Costs:** without PV \$1,650
- **Annual Energy Cost Savings:** (vs typical new homes) without PV \$1,600
- **Annual Energy Savings:** without PV 6,300 kWh
- **Savings in the First 30 Years:** without PV \$77,000

CONTACT

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KEY FEATURES

- **Walls:** 2x6, 16" o.c., R-26 total: Advanced framed, in cavity R-23 rockwool batt, 1" graphite EPS with perforated coating, 7/16" OSB sheathing, house wrap, fiber cement siding.
- **Roof:** Truss gabled roof: 7/16" OSB decking, synthetic underlayment, 36" self-adhered membrane at valleys and eaves; metal drip edge, ridge vent, 30-year architectural shingles.
- **Attic:** Vented attic: 14.9" R-50 blown cellulose. Top plates and penetrations sealed.
- **Foundation:** Basement and crawl space: 9-ft-tall 11" R-38 ICF walls. Dimpled plastic waterproofing membrane on exterior. Interior and exterior footing drains. Concrete basement slab sits on gravel and vapor barrier.
- **Windows:** Double-pane, argon, low-e, fiberglass, internal louvers. U=0.26, SHGC=0.26.
- **Air Sealing:** 1.91 ACH50, rigid foam and house wrap seams taped.
- **Ventilation:** Controlled central fan with fresh air intake and balanced exhaust, MERV 11 filter.
- **HVAC:** Gas furnace, 96 AFUE, 19 SEER AC unit, rigid metal ducts.
- **Hot Water:** Gas tank, 50-gal, 0.70 EF.
- **Lighting:** 100% LED, motion sensors, sky lights, solar tubes.
- **Appliances:** ENERGY STAR dishwasher.
- **Solar:** N/A
- **Water Conservation:** WaterSense fixtures, hot water recirculation pump.
- **Energy Management System:** Wi-Fi HVAC controls.
- **Other:** Low/no-VOC foam, caulk, paint, stain, OSB, flooring, glues, insulation.

