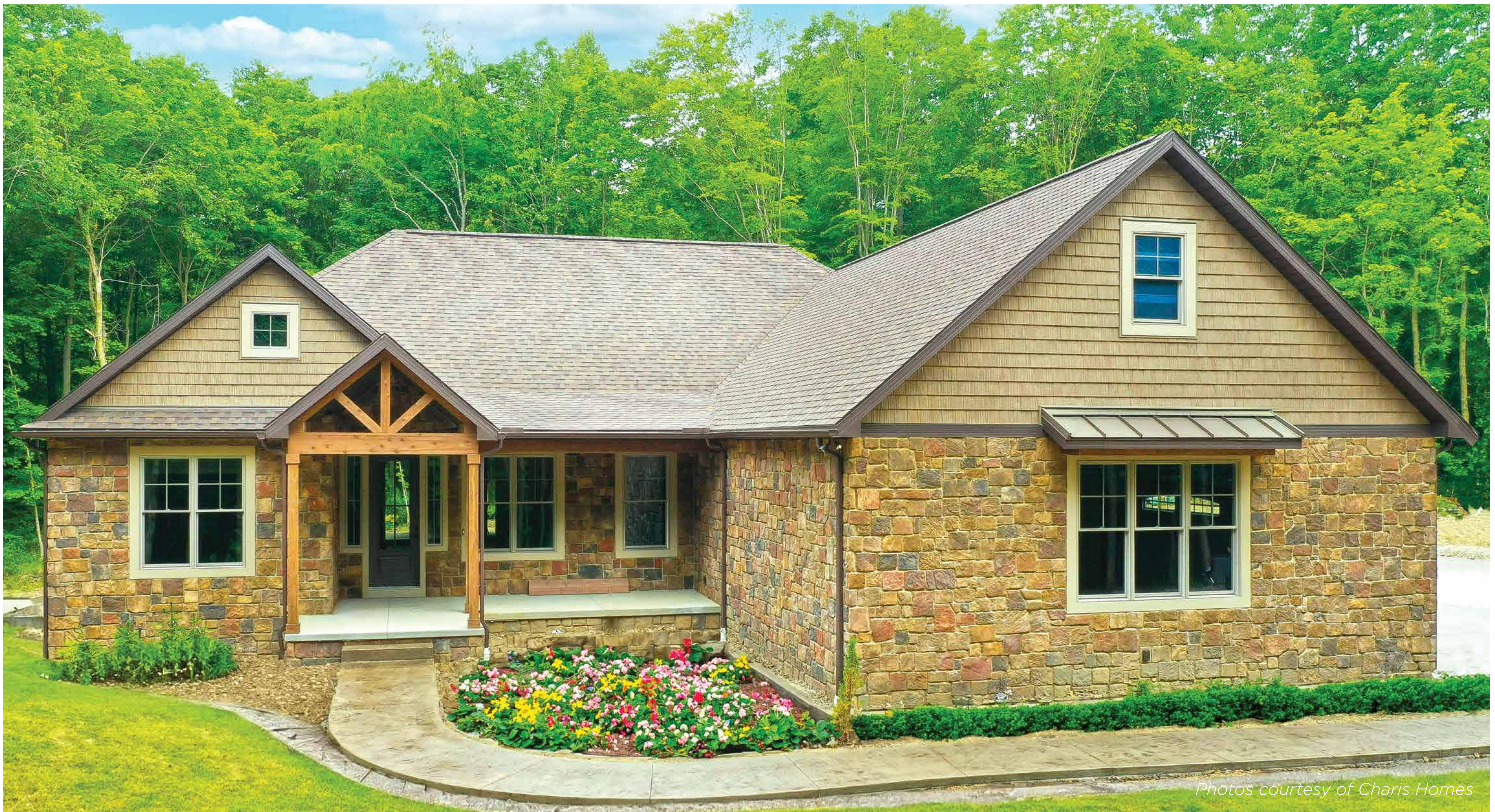




# Charis Homes

The Dover Zoar Home | Bolivar, OH | CharisHomes.com



Photos courtesy of Charis Homes

“By using construction with full electrification, [this home] will contribute to the reduction of greenhouse gas emissions.” Charis Homes



## PROJECT DATA

- **Layout:** 3 bdrm, 2 bath, 1 fl + bsmt, 4,929 ft<sup>2</sup>
- **Climate:** IECC 5A, cold
- **Completed:** June 2024
- **Category:** Custom

### MODELED PERFORMANCE DATA

- **ERI:** without PV 47
- **Annual Energy Costs:** without PV \$2,000
- **Annual Energy Cost Savings:** (versus typical new homes) without PV \$2,300
- **Annual Energy Savings:** without PV 20,850 kWh
- **Savings in the First 30 Years:** without PV \$95,900

## CONTACT

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## KEY FEATURES

- **Walls:** Insulated concrete forms, R-22 total: 6" insulated concrete forms with cultured stone exterior.
- **Roof:** Gable truss roof, rock wool insulation in cathedral ceilings, 7/16" OSB roof sheathing, synthetic roof underlayment, ice and water shield, architectural shingles.
- **Attic:** Vented, 13.4" R-50 blown-in cellulose in attic; 13.25" R-38 blown-in fiberglass in garage; mineral wool batts in cathedral ceilings.
- **Foundation:** Insulated basement: 6" R-22 ICF walls; dimple board waterproofing; stay-in-place footing forms with drainage; stone masonry veneer.
- **Windows:** Double-pane windows, U=0.26, SHGC=0.26, low-e, argon-fill. Pre-insulated window bucks.
- **Air Sealing:** 1.39 ACH50; ICF walls sealed from foundation to roof; all penetrations, doors, and windows sealed with canned closed-cell spray foam.
- **Ventilation:** Exhaust-only. ENERGY STAR bath fans. Range fan has three speeds and auto speed adjust.
- **HVAC:** Central air-source heat pump, 9.0 HSPF, 15.2 SEER; cold-climate heat pump. Ducts sealed with aerosolized acrylic.
- **Hot Water:** Heat pump water heater, 50-gal, 3.64 UEF. Adaptive recirculation.
- **Lighting and Appliances:** ENERGY STAR appliances.
- **Solar:** None.
- **Energy Management System:** Water heater control panel monitor.
- **Other:** Disaster resistant ICF construction. Cold-climate heat pump. All electric home.

