



# C & B Custom Homes

The Antelope Plan | Cottonwood, AZ | CandBHomes.com



Photos courtesy of C & B Custom Homes

“The [solar panels]... cover all of the house, and the car, and another car.” Homeowner



## PROJECT DATA

- **Layout:** 3 bdrm, 2 bath, 2 fls, 1,663 ft<sup>2</sup>
- **Climate:** IECC 4B, mixed-dry
- **Completed:** May 2020
- **Category:** Custom Spec

### MODELED PERFORMANCE DATA

- **HERS Index:** without PV 44; with PV 11
- **Annual Energy Costs:** without PV \$1,200; with PV \$600
- **Annual Energy Cost Savings:** (vs typical new homes) without PV \$1,000; with PV \$1,650
- **Annual Energy Savings:** without PV 3,000 kWh, 350 Therms; with PV 9,000 kWh, 350 Therms
- **Savings in the First 30 Years:** without PV \$48,000; with PV \$75,800

## CONTACT

Chris Spannagel  
928-634-8453  
chrs.candb@gmail.com

## KEY FEATURES

- **Walls:** 2x6, 16" o.c., R-29 total: R-24 spray foam cavity insulation, house wrap, 1" R-5 rigid foam sheathing, type "F" acrylic modified stucco.
- **Roof:** Truss gable roof, peel-and-stick membrane on all roof, cement tile cladding, ES Cool Roof.
- **Attic:** Conditioned attic: 7" R-26 open-cell spray-foam on underside of roof deck.
- **Foundation:** Daylight basement: grouted CMU, 1" R-5 exterior rigid foam. Under slab: 2" R-10 foam at perimeter 48".
- **Windows:** Double-pane, argon-filled, low-e coatings, vinyl single-hung frames. U=0.29, SHGC=0.23.
- **Air Sealing:** 2.6 ACH 50. Spray-foam cavity insulation, sill plate gaskets and caulk, all penetrations thru top plates and walls foam sealed.
- **Ventilation:** ERV, MERV 9 filter.
- **HVAC:** 96% AFUE gas furnace. AC 16 SEER. Small-diameter high-velocity ducts.
- **Hot Water:** Tankless gas, 0.96 efficiency, central manifold with PEX piping, recirculation pump.
- **Lighting:** 100% LED.
- **Appliances:** ENERGY STAR appliances.
- **Solar:** 3.55-kW; integrated micro-inverters.
- **Water Conservation:** EPA WaterSense fixtures, drip irrigation in landscape.
- **Energy Management System:** Wi-Fi and Bluetooth compatible thermostat.
- **Other:** Zero-VOC paint and cabinets, UL Greenguard Gold hard flooring.

