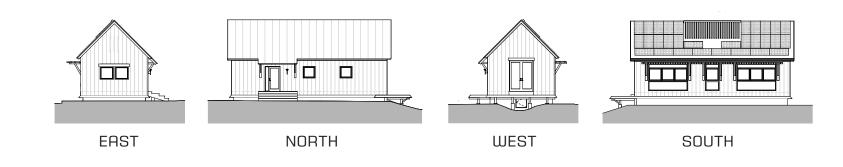
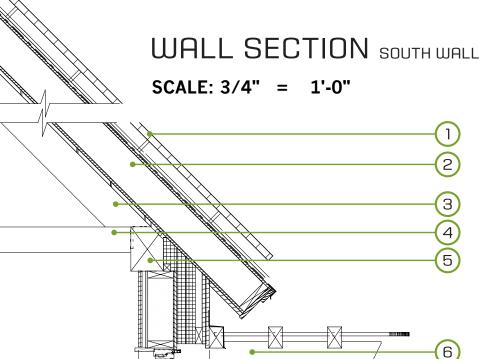


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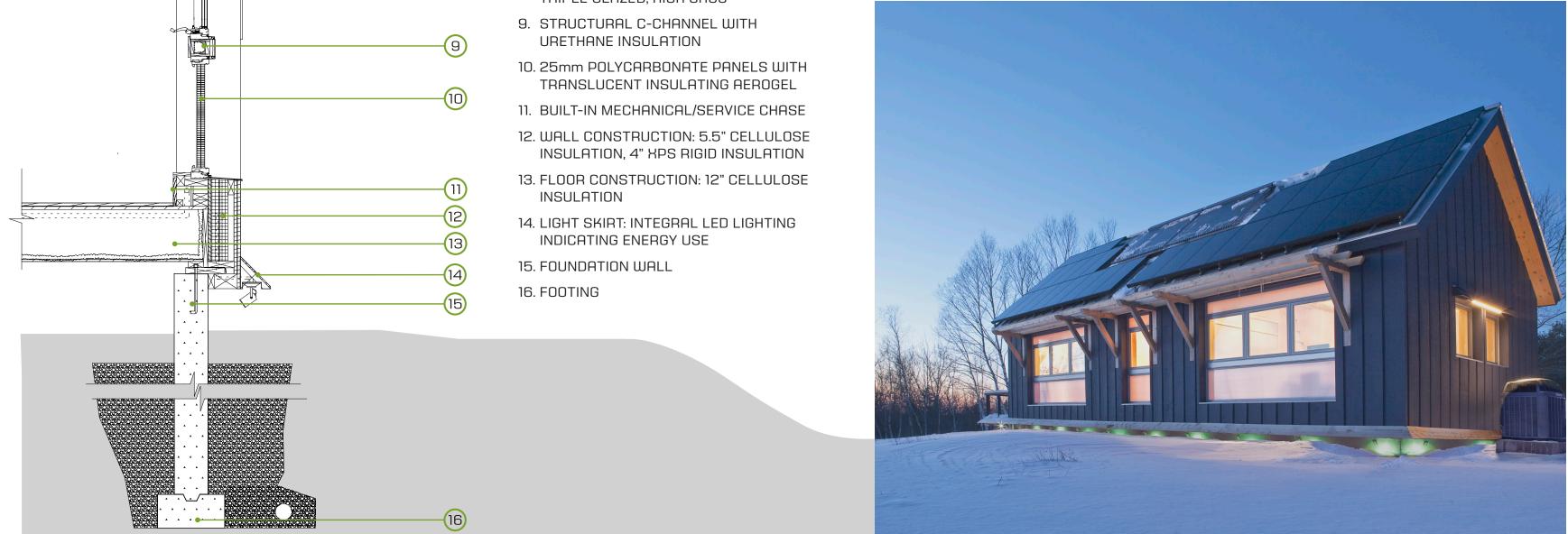
**1-BEDROOM CONFIGURATION** 

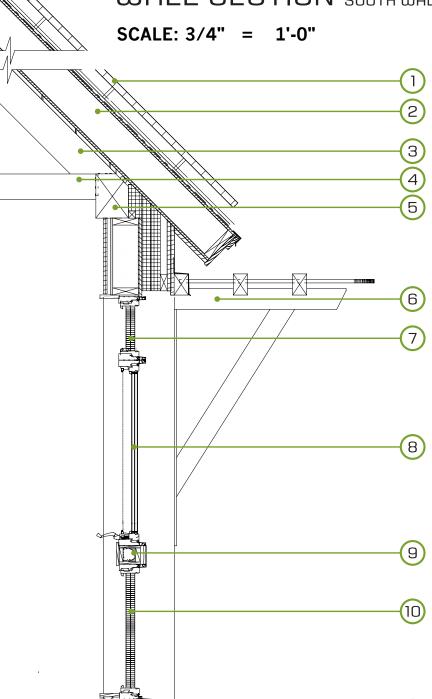
2-BEDROOM CONFIGURATION

**BASIC FLOOR PLAN** 



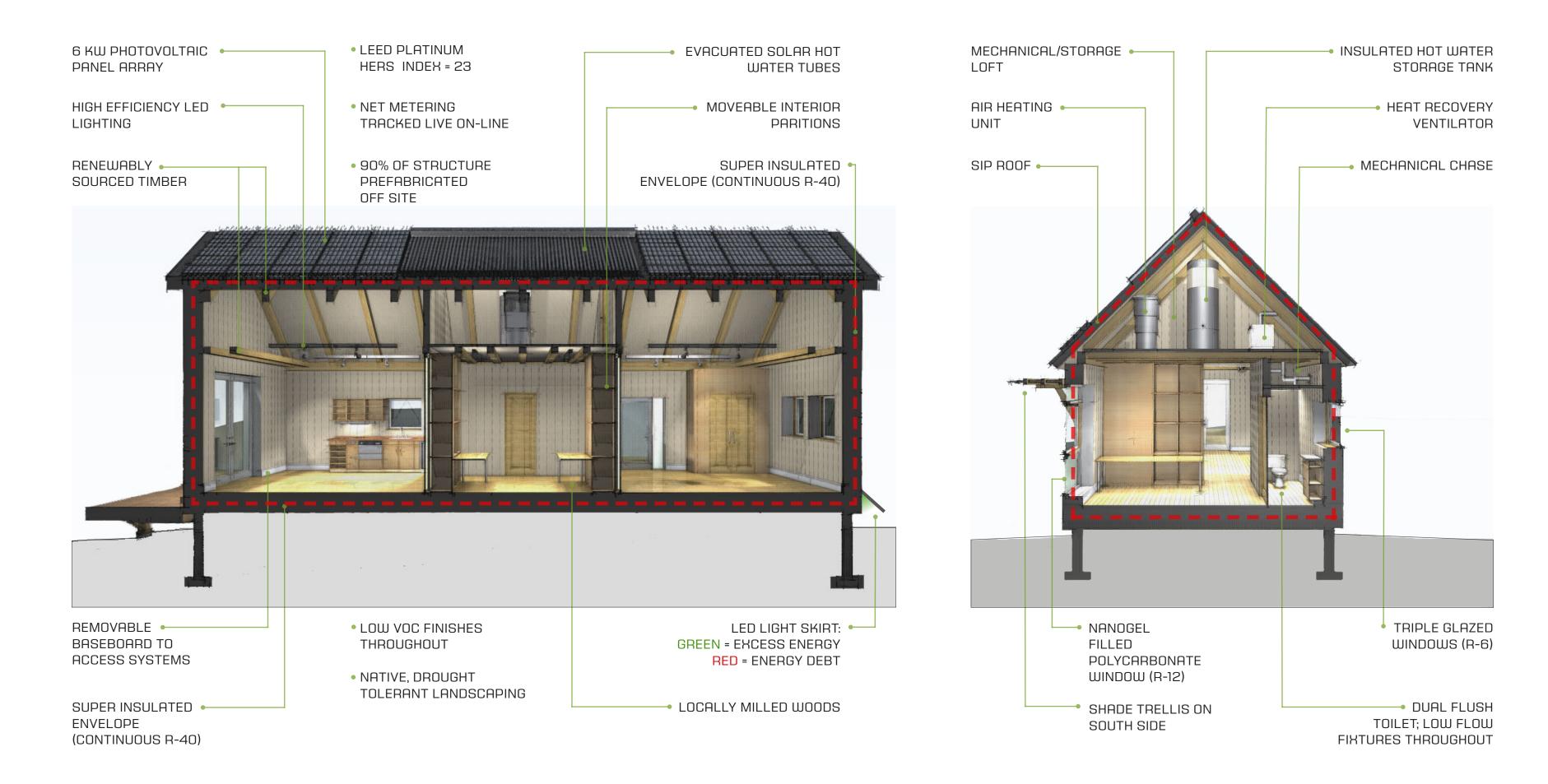






- 1. PHOTOVOLTAIC SOLAR PANELS AND SOLAR HOT WATER EVACUATED TUBES
- 2. ROOF: STRUCTURAL INSULATED PANELS
- 3. TIMBER RAFTER
- 4. COLLAR TIES
- 5. TIMBER PLATE
- 6. ARBOR TRELLIS / SUNSHADE
- 7. 25mm POLYCARBONATE PANELS WITH TRANSLUCENT INSULATING AEROGEL
- 8. THERMOTECH FIBERGLASS WINDOWS, TRIPLE GLAZED, HIGH SHGC

The BrightBuilt Barn is an attempt to push the envelope of sustainable design. It is the practical outcome of an in-depth collaboration between designers, building fabricators, high performance building experts and solar energy professionals from all over the northeast. The result is a prototype for the sustainable house of the 21st century – a practical, affordable, beautiful structure that is one of the only buildings in the world to be designed to be truly carbon neutral: By making more clean energy than it consumes, over its lifespan, the BrightBuilt Barn will actually offset all the atmospheric greenhouse gases produced by its construction.



## From conception to construction, **five guiding principles** were integrated into the BrightBuilt Barn:

- **1. Livability:** Does the solution fit the need?
- **2. Sustainability:** Is this building environmentally responsible?
- 3. Replicability/Affordability: Can we build this building affordably?
- 4. Disentanglement: Can this building change over time?
- **5. Education:** How will this building teach and influence subsequent generations?