Strategic Approach:
- Type of Project: Single Family
- Location: Minnesota
- Partners: Mega Homes & RSR
- Design Strategy: A contemporary farmhouse with a simple design, efficient form, good solar orientation, and streamlined mechanicals.
- Technical Strategy
  - Enclosure: 2x4 wall w/ 3” of exterior insulation; vented attic with cellulose and spray foam air barrier; R-5 windows with SHGC tuned to orientation; foundation with R-15 exterior insulation
  - HVAC: Integrated space and water heating with ducted ERV
  - IAQ: MERV 11 filtration, low VOC materials, garage separation; ASD
- Construction Cost Strategy: Use cost savings from the streamlined design and systems to improve the enclosure and upgrade system efficiency.

Technical Specifications:
Wall R-Value: R-30
Ceiling R-Value: R-60
Foundation R-Value: R-15
Window R-Value: R-5
Window SHGC: 0.38 (south); 0.17 (rest)
Space & Water Heater CAE: 94%
Air-conditioning SEER: 21.0

Key Statistics:
Location: Minneapolis, MN
2009 IECC Climate Zone: 6
Square Feet: 3456
Number of Stories: 2
Number of Bedrooms: 4
Number of Bathrooms: 3.5
Estimated Construction Cost: $360,000
HERS Index Score: 33
Estimated Monthly Energy Cost: $99