

Energy-Efficient Package



Passive Solar Design

- Northern exposure orientation
 - Garage on North side of home
 - High-performance energy package helps retain passive solar energy
- 24" Roof Overhang
 - Blocks higher summer sun angle to reduce heat gain
- Positive air circulation
 - Many rooms have cross-ventilation

Windows and Doors

- Pella Architectural Series Windows
- Low-E Glass with 15/16" air gap
- Radiant Floor System

8 Individual Heating Zones

- 5 Oil baseboard hot water
- 3 Electric zones (2-Room Private Suite)
- 82% Efficient Oil Burner

Energy Buffer Areas

- These buffer areas act as airlock to reduce heat loss or summer heat gain
 - Grand Foyer
 - Attic Stairs
 - Mud Room
 - 3-Plus Car Garage

High-Performance Insulation

- R-24 Walls
- R-38 Ceilings
- R-5 Dow Styrofoam (outside walls)
- R-10 Dow Styrofoam (foundation walls)
- Radiant Floor System
- R-10 Dow Styrofoam (under radiant slab)
- Tyvek house wrap air & vapor barrier



★ **Energy Audit Report 2014** – No major recommendations

