The Blivit House
System Specifications

• 5 Ton WaterFurnace NSW W-W Heat Pump with Symphony Monitoring
• Closed Vertical Ground Loop - (2) 400’ Boreholes w/ 1 ¼” HDPE Loops
• 50 Gallon Buffer Tank with Direct To Load Piping
• HBX Controls
• Duplexed Magna3 VS Pumps with Zone Valves
• Radiant Floors in Slab - 1st Floor
• First Co Air Handler w/ Honeywell Zoning & Blue Duct
• SpacePak High Velocity Air Handler w/ Arzel Zoning & Exposed Spiral Duct
• Thermostats Integrated with Savant Home Automation System – radiant zones and air zones match so one thermostat controls all zone functions
• IBC Boiler for Domestic Hot Water and Auxiliary Heat
Design Challenges

- Slab on Grade – sub slab ductwork and radiant tubing
- Limited Mechanical Spaces
- Open Floor Plan – difficult duct runs
- Integration with Savant Home Automation System
- Custom Linear Floor Grilles and Mud-In Wall Registers
Blue Duct Underground Air Duct System
Radiant Floors
Limited Mechanical Spaces
Limited Mechanical Spaces
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Limited Mechanical Spaces
Custom Welded Heat Pump Stand w/ Hinged Control Panel
Open Floor Plans
Integration with Savant Home Automation System

- Thermostats located in Mechanical Room w/ wall mount sensors
- Radiant zones and air zones match so one thermostat controls all zone functions
- HRV Control and Bathroom Exhaust Timers integrated
Custom Grilles and Registers
Wiring Diagram
Piping Diagram