

Sustainable features on the Adams/Bonfils Home

This home was built for Don Adams and Nan Bonfils who operate a grass fed beef farm near Ledges State park. The home is placed in a pasture near an oak, hickory savannah overlooking a farm pond. The home is designed to create an independent life style with a minimal reliance on provided services such as food, water, and power. Features include a canning kitchen with root cellar, two bedrooms, main level utility room and plant room, kitchen, dining room, living room, basement office, and insulated double garage.

Other sustainable features are listed below:

Energy

1. Insulation: R-10 under basement slab, R- 26 basement walls, R-30 main level walls, R-60 attic.
2. Triple glazed windows
3. .049 ACH (air changes per hour) natural
4. Masonry wood burning furnace
5. Dehumidified Earth Loop cooling
6. Insulated hot water piping with switched circulation system
7. Solar hot water system
8. CFL lighting
9. Timer controlled charger outlets and over ride switching for phantom loads

Health

1. Universal design features including: no step entry, wide doorways, accessible shower, switches and controls in easy reach zone, main level electrical panel.
2. Sealed ductwork system, both supply and return air
3. Whole house dehumidification
4. Radon sealing and venting
5. Vented central vac system
6. No VOC paints and low VOC sealers
7. No carpets, all floors are hard surfaces including, wood, tile, marmolium and stained concrete.
8. Recessed entry walk off mats
9. Closet systems made of Sky Blend board with no added formaldehyde

Environment

1. 30% fly ash concrete
2. Job site recycling and waste control
3. Water saving plumbing fixtures including dual flush toilets
4. Whole house rain water collection system
5. Native wood trim including entry door built from fallen tree on site
6. Interior doors, reclaimed or of recycled content
7. Advanced framing techniques
8. Hardi plank exterior cladding