



5644 S. Iowa Dr., St. Anne, IL 60964

Points:						Total	Level
<b>Min Required:</b>	82	15	23	15	15	60	
<b>Proposed:</b>	0	0	7	0	0	7	
<b>Yes:</b>	369	54	46	41	15	525	Gold
<b>Verified:</b>	369	54	46	41	15	525	Gold
<b>Eligible Pillars:</b>							

# 1. Planning, Design and Energy Modeling

## 1.1 OVERALL REQUIREMENTS

Yes	1.1.5	Select project type	New Construction - Single Family					
Yes	1.1.6	Project climate zone Notes: Zone 5	Default Value					
Yes	1.1.7	Meet 2015 IECC code on new buildings Notes: Wufi model completed in 2014, met 2012 IECC	Default Value					
Yes	1.1.10	Use certified wood if importing outside of US and Canada - FSC or SFI Notes: All lumber was from USA and Canada	Default Value					
Yes	1.1.19	Seal all ducts and air handlers to prevent contamination during construction. Notes: Done after framing, openings plugged during drywall	Default Value					

## 1.3 INTEGRATED & TRAINED PROJECT TEAM

Yes	1.3.6	Certified GreenHome Professional Serving on project team Notes: Eco Achievers	Default Value	1	1	1	1	1
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## 1.4 ENERGY USE REDUCTION

Yes	1.4.9	Reduce yearly energy demand	12,000 kwh	348	0	0	0	0
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## 1.5 DESIGN

Yes	1.5.2	Home or building is ready for Solar PV in the future Notes: PV and solar thermal already installed		0	0	1	2	0
Yes	1.5.7	Allocate space in the home as a disaster protection area Notes: Basement safe room	Default Value	0	1	0	0	0
Yes	1.5.7	Home or building is all electric	Default Value	1	3	3	0	0
Yes	1.5.8	Home designed or renovated to be ready for zero energy	Default Value	0	0	2	0	0
Yes	1.5.12	No garage or detached garage	No garage	0	3	0	4	0
Yes	1.5.14	Propose an innovative idea - 1 Notes: Water catchment system for outdoors	Default Value	0	0	0	0	3
Yes	1.5.15	Passive solar home	Default Value	5	0	0	0	0

**1.6 HOME LOCATION AND SITE SELECTION**


















Yes	1.6.6	Select the type of lot being built on	Previously Developed	0	0	5	0	0
Yes	1.6.6	Avoid ecologically sensitive sites Notes: No trees or native vegetation was removed for construction.	Default Value	0	0	3	0	0
Yes	1.6.7	Build in fire-safe area Notes: Created fire breaks approximately 100 feet from the house	Default Value	0	0	2	2	0

**2. Site & Landscape**














































**2.1 PREREQUISITES**
















































Yes	2.1.1	No invasive species are planted Notes: Photos taken, has list to verify	Default Value					
Yes	2.1.2	No cypress mulch	Default Value					
Yes	2.1.3	No new railroad ties or other landscape materials that contain creosote or chromated copper arsenate	Default Value					
Yes	2.1.4	Following construction completion, no part of the disturbed site is left uncovered or destabilized Notes: See photos of the completed house.	Default Value					
Yes	2.1.6	New Patio Slabs, Porch Slabs, Walks, and Driveways Slope Away from House Notes: All sides sloped, west side to be built up		0	0	0	1	0

		<b>2.2 PLANTINGS AND IRRIGATION</b>						
Yes	2.2.3	No Heritage trees removed Notes: No trees were removed at all for the construction of the house.		0	0	2	0	0
Yes	2.2.3	Total site has XX% permeable surface. Select one: Notes: Photos taken, Google Earth image. Future tennis court planned, but it's gravel now. Was the former animal barn	100% of undeveloped site is permeable	0	0	4	0	0
Yes	2.2.4	Native / Drought Tolerant and/or Adaptive Plants Notes: Need plant list	60%	0	0	3	0	1
Yes	2.2.7	Restore damaged ecosystem (i.e. restore existing prairie or wet lands, establish wildlife habitat, remove extensive invasive plant species, etc) Notes: Doing controlled burn - best way to keep healthy and kill invasive species. Neil is designated Steward		0	0	5	0	0
Yes	2.2.13	Existing and new deciduous trees shade 50% of sidewalks, patio or drive within 5 years Notes: Drive all shaded		0	0	2	0	0
Yes	2.2.14	All plantings and plant materials are kept at least " from house Notes: 12-18	18 inches	0	0	0	1	0
Proposed	2.2.17	Use slow-release organic fertilizers to establish vegetation Notes: No fertilizer used. Only compost is used to augment the soil.		0	0	1	0	0
Yes	2.2.19	Structure located in fire-safe area, away from highly-flammable trees and plantings Notes: Grasses are not used in the garden and areas have been mowed around the house area. There are wild fires in the area. One occurred in March, 2017 and the mowed areas kept the fire away from the house.		0	0	0	1	0
		<b>2.4 EROSION CONTROL</b>						
Yes	2.4.1	Turf is not installed on slopes exceeding 25% rise		0	0	1	0	0
		<b>2.5 GRADING/DRAINAGE</b>						
Yes	2.5.1	Patio slabs, walks and driveway shall be sloped a minimum of 1/8" per foot away from house Notes: No paved areas	Default Value	0	0	0	1	0
Yes	2.5.2	Minimum of 50% (75% over 1 acre) of lot is protected from all grading and tree clearing Notes: Stayed away from trees during construction. Using north trees for shading, took one tree down because it was covering the Solar PVs. Took one cherry down because it was killing black oak.	Default Value	0	0	2	0	0
Yes	2.5.5	Re-use all site topsoil, if site disturbance occurs Notes: Used tennis topsoil, only topsoil on site		0	0	1	0	0
Yes	2.5.8	Plant a rain garden	75%	0	0	4	0	0
















### 3. Building Envelope

		<b>3.1 PREREQUISITES NEW &amp; ADDITIONS</b>							
Yes	3.1.9	A capillary break beneath all slabs (e.g., slab on grade, basement slab)	Default Value						
Proposed	3.1.15	New structural plywood & OSB must conform to PS1 and PS2 standards. Notes: Used construction grade 3/4 plywood	Default Value						
		<b>3.4 FOUNDATIONS, CRAWLSPACES, &amp; SLABS</b>							
Yes	3.4.16	Install frost protected shallow foundation Notes: 2/3 of the house is slab on grade with 1/3 of the house is a basement			0	0	0	2	0
		<b>3.5 WALLS &amp; CEILINGS</b>							
Yes	3.5.0	24 inch on center framing Notes: 24 oc			0	0	0	2	0
Yes	3.5.3	Single top plate			0	0	0	1	0
Yes	3.5.4	Door & Window headers sized for load Notes: Done by structural engineer			0	0	0	1	0
Yes	3.5.5	Interior wall finish is min. 1/2 inch from concrete slabs.			0	0	0	1	0
Yes	3.5.14	Use No VOC healthier paints/stains/primers Notes: All paint was non-VOC paint	ZERO VOC		0	3	0	0	0
		<b>3.6 SIDING</b>							
Yes	3.6.8	Install traditional three-coat stucco			0	0	0	2	0
		<b>3.7 WINDOWS, SKYLIGHTS &amp; DOORS</b>							
Proposed	3.7.9	Fenestration(s) are from certified sustainable manufacturing process	50% of square footage		0	0	1	0	0
Yes	3.7.10	New cover on a new entry. Must extend three feet out from new entry.	All entry's		0	0	0	2	0
		<b>3.8 ATTICS &amp; ROOFS</b>							
Proposed	3.8.25	Location source of new structural attic	90% Locally Sourced		0	0	4	0	0
		<b>3.9 NEW INSULATION</b>							
Yes	3.9.0	New insulation is low or no emitting VOCs Notes: Walls-	50% of square footage		0	1	0	0	0
Yes	3.9.5	New insulation contains recycled content	50% of square footage		0	0	0	1	0

## 4. HVAC & Mechanical

<b>4.1 OVERALL PREREQUISITES</b>							
Yes	4.1.0 Proper whole house ventilation Notes: ERV		0	3	0	0	0
Yes	4.1.5 All new ductwork must be sealed Notes: Only ducts are ERV, and those were plugged.	Default Value					
Yes	4.1.7 Install carbon monoxide detector(s) Notes: Required by the building department and inspected by the building dept.	Default Value					
Yes	4.1.11 Fireplaces/Stoves with Proper Ventilation	Default Value					
Yes	4.1.12 Install higher MERV rated Filter Notes: MERV 12	MERV 10+	0	3	0	0	0
<b>4.2 NEW SYSTEM(S) PREQUISITES</b>							
Yes	4.2.0 No new unvented combustion units Notes: Exception: Kitchen-type cooking devices with exhaust ventilation	Default Value					
Yes	4.2.3 No air handlers or conditioning equipment shall be placed in unconditioned spaces (e.g., garage)	Default Value					
Yes	4.2.6 New ducting MAY NOT use building cavities as part of air supply or return system.	Default Value					
<b>4.4 VENTILATION AND FRESH AIR FOR OCCUPANTS</b>							
Yes	4.4.2 Install better ventilation in bathroom(s). Notes: ERVs used	100% of all bathrooms	2	3	0	4	0
Yes	4.4.3 Properly Ventilate the Kitchen Notes: ERV. Actual hood exhaust is recirc	HRV or ERV used for kitchen	1	2	0	2	0
Yes	4.4.9 Better ventilation system Notes: UltimateAir RecoupAerator 200DX ERV	Balanced	0	2	0	1	0

## 5. Electrical

<b>5.1 PREREQUISITES</b>							
Yes	5.1.7 Minimum of one carbon monoxide alarm installed within ten (10) feet of each bedroom.	Default Value					
<b>5.2 APPLIANCES</b>							
Yes	5.2.5 Refrigerator is energy star or up down	Default Value	1	0	0	0	0
Yes	5.2.9 Energy Efficient Dryer Installed	Energy Star Dryer	1	0	0	0	0
Yes	5.2.13 Install whole house surge protection		0	0	0	1	0

**5.3 FANS, FIXTURES AND LIGHTS**

Yes	5.3.6	Install LED Lighting	High use & exterior	1	0	0	0	0
Yes	5.3.20	Install new ENERGY STAR ceiling fans Notes: MinkaAire F843-WH - ESTAR rated		0	0	0	0	0

**6. Plumbing Systems & Fixtures****6.1 PREREQUISITES**

Yes	6.1.2	No new supplies or drains in exterior walls	Default Value					
Yes	6.1.3	Install Sump Pump with Cover Gasket		0	1	0	0	0

**6.2 EQUIPMENT**

Yes	6.2.5	Install a heat trap or demand valve on water heater		1	0	0	0	0
Yes	6.2.6	Dishwasher is energy star	Default Value	1	0	0	0	1
Yes	6.2.6	Install a hot water demand re-circulation pump		0	0	0	0	1
Yes	6.2.7	Clothes Washer is Energy Star	Default Value	1	0	0	0	1

**6.3 FIXTURES**

Yes	6.3.2	Install NSF certified water filtration Notes: In basement	Drinking water at tap	0	4	0	0	0
Yes	6.3.6	Shower heads Notes: Master Bath-Grohe Retro fit 160 Shower system with max flow rate of 2.5 gpm Hall bath is Grohe Relaxa shower set with max flow rate of 2.5 gpm	1.5 GPM	0	0	0	0	2
Yes	6.3.11	Toilets Notes: Toto 1.6/.9 gpf = both	1.3 GPF	0	0	0	0	3
Yes	6.3.16	Bathroom Aerator(s)	2.2 GPM	0	0	0	0	1











**6.4 PIPING**

Yes	6.4.0	Better piping system	PEX in 70% of piping	1	0	1	1	0
Yes	6.4.6	Insulate all hot water lines to minimum R-4		2	0	0	0	0

## 7. Finish Materials & Coatings

### 7.1 PREREQUISITES



Yes	7.1.0	All new interior primer/paint/stains certified low voc	No Voc	0	6	0	0	0
Yes	7.1.2	New durable and moisture resistant floors in bathrooms, kitchens, entryways and utility rooms		0	1	0	0	0
Yes	7.1.3	No paper-coated drywall in shower or tub surround	Default Value					
Yes	7.1.4	No vinyl wall coverings allowed in moisture-rich areas	Default Value					

### 7.2 FLOORING



Yes	7.2.2	No or less carpet installed on all flooring (besides basement)	50% of applications	0	2	0	1	0
Yes	7.2.3	Install sealed concrete floor (min. 80% of interior finish slab-work)		0	2	0	2	0
Yes	7.2.4	Install tile or stone for all shower flooring		0	2	0	0	0

### 7.3 CABINETRY WITH GREEN ATTRIBUTES



Proposed	7.3.4	Cabinets are from certified sustainable manufacturing process	50% of square footage	0	0	1	0	0
Yes	7.3.7	New cabinets low or no emitting VOCs	50% of square footage	0	1	0	0	0

### 7.4 COUTERTOPS WITH GREEN ATTRIBUTES



Yes	7.4.6	New countertops are low or no emitting VOCs	50% of square footage	0	1	0	0	0
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## 8. Waste Management

### 8.4 HOMEOWNER WASTE REDUCTION













Yes	8.4.2	Provide kitchen scrap compost bin and exterior compost bin		0	1	2	0	0
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## 9. Occupant Education + Better Living

### 9.1 HOMEOWNER AND SUBCONTRACTOR EDUCATION



Yes	9.1.0	Expand homeowner's user manual		1	1	1	1	1
Yes	9.1.0	Homeowner signs up for green energy Notes: Sells own PV back to utilities	Green Energy	0	0	1	0	0
Yes	9.1.0	Install temperature and humidity sensors Notes: Has installed Eco Bee smart thermostat which does these functions		0	1	0	1	0
Yes	9.1.22	Builder Manager and/or Tenant Education	Default Value					
Yes	9.1.23	Provide homeowner with a user's manual	Default Value					

## 10. Reduced exposure to EMFs

<b>10.1 DESIGN FOR REDUCED ELECTRICAL AND MAGNETIC FIELDS</b>						
Yes	10.1.0 Avoidance 1. Install polyethylene pipe for main water service supply pipe underground of grounding of electrical service to main water supply. (proper pre-existing conditions also qualify)	0	1	0	1	0
Yes	10.1.3 Ground electrical panel to approved dedicated  ground stake (not rebar, plumbing pipes or any integral part of the house)	0	2	0	0	0
Yes	10.1.4 All wiring within 6 feet of a bedroom is run in metal conduit (flexible and rigid qualify) Wiring run in metal conduit (low voltage exempt)	0	1	0	1	0
Yes	10.1.6 Keep electrical service connection, electric meters, and panels at least ten feet from sleeping areas	0	1	0	0	0
Yes	10.1.14 Refrigerator is not located within 6 feet of sleeping area	0	1	0	0	0

## 11. Do not use - V1 ONLY

<b>11.9 IMPROVE EXISTING WINDOWS, SKYLIGHTS AND DOORS</b>						
Yes	11.9.14 50% or more of glass doors have 1/2 glass or less Uvalue .18	1	0	0	0	0