



5333 Drew Avenue S, Minneapolis, MN 55410

Points:						Total	Level
<b>Min Required:</b>	82	15	23	15	15	60	
<b>Proposed:</b>	0	0	0	0	0	0	
<b>Yes:</b>	228	45	63	44	19	399	Gold
<b>Verified:</b>	228	50	69	48	19	414	Gold
<b>Eligible Pillars:</b>							

# 1. Planning, Design and Energy Modeling

## 1.1 OVERALL REQUIREMENTS



Yes	1.1.1	Select project type	New Construction - Single Family					
Yes	1.1.2	Project climate zone Notes: 6	Default Value					
Yes	1.1.3	Do not build in flood zones	Default Value					
Yes	1.1.4	Use certified wood if importing outside of US and Canada - FSC or SFI	Default Value					
Yes	1.1.5	Between unit tightness Notes: 0.0627 CFM50/Sq. Ft. of Surface Area	Default Value					
Yes	1.1.6	Seal all ducts and air handlers to prevent contamination during construction. Notes: Any photos for verification or a write up?	Default Value					
Yes	1.1.7	Meet 2015 IECC code on new buildings Notes: HERS 44	Default Value					

## 1.3 INTEGRATED & TRAINED PROJECT TEAM



Yes	1.3.5	Hire a credentialed HQUITO or NATE HVAC contractor Notes: Practical Systems HQUITO		1	1	0	0	0
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## 1.4 ENERGY USE REDUCTION



Yes	1.4.2	Home Energy Rating System Notes: Please put a direct link to the report	40 - 44	176	0	0	0	0
Yes	1.4.9	Air Changes Per Hour (ACH) (VERSION 1 ONLY) Notes: 0.83 ACH50	1.0 ach	28	3	0	0	0

## 1.5 DESIGN



Yes	1.5.4	No garage or detached garage	No garage	0	3	0	4	0
Yes	1.5.7	Pre Occupancy Air Flush	Default Value	0	1	0	0	0



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**1.6 HOME LOCATION AND SITE SELECTION**



Yes	1.6.1	Ability to walk to community services. (walkscore.com) Select one:	walkscore between 50-69	0	0	3	0	0
Yes	1.6.2	Access to public transportation.	1/4 mile	0	0	4	0	0
Yes	1.6.3	Site is bike friendly	Bikeable, Bike Score 50-69	0	0	2	0	0
Yes	1.6.4	Publicly accessible outdoor space (3/4 acre or greater)	Within 1/2 mile from site	0	0	1	0	0
Yes	1.6.6	Avoid ecologically sensitive sites	Default Value	0	0	3	0	0
Yes	1.6.6	Select the type of lot being built on	Infill	0	0	3	0	0
Yes	1.6.8	Housing density average >7 units per acre Notes: 8 units/acre		0	0	4	0	0
Yes	1.6.9	Project located within 1/2 mile of existing water & sewer		0	0	1	0	0

**2. Site & Landscape**

**2.1 PREREQUISITES**



Yes	2.1.1	No invasive species are planted	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	Default Value					
Yes	2.1.5	Final Grade Slopes Away from Foundation 0.5 inch per foot for 10 feet	Default Value					
Yes	2.1.6	New Patio Slabs, Porch Slabs, Walks, and Driveways Slope Away from House						

**2.2 PLANTINGS AND IRRIGATION**



Yes	2.2.2	Soil tested and amended to achieve optimal nutrient level and structure Notes: Send details		0	0	1	0	1
Yes	2.2.3	Native / Drought Tolerant and/or Adaptive Plants Notes: 85% of plantings are drought tolerant	60%	0	0	3	0	1
Yes	2.2.4	Total site has XX% permeable surface. Select one: 85% of undeveloped site is permeable		0	0	3	0	0
Yes	2.2.7	No Heritage trees removed		0	0	2	0	0
Yes	2.2.8	Live trees from site are replanted or donated		0	0	2	0	0
Yes	2.2.12	Existing and new deciduous trees shade 50% of sidewalks, patio or drive within 5 years		0	0	2	0	0



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**2.3 DECKS, PATIOS AND PORCHES**



Yes	2.3.1	Wood use is kept at least 12 inches from soil		0	0	0	2	0
Yes	2.3.2	Non toxic landscaping wood.	Default Value	0	0	1	0	0
Yes	2.3.4	Decking is made from recycled content and has low-toxicity Notes: Send product details		0	0	0	1	0

**2.4 EROSION CONTROL**



Yes	2.4.1	Turf is not installed on slopes exceeding 25% rise		0	0	1	0	0
Yes	2.4.6	Long-term erosion is reduced through terracing, retaining walls, landscaping, or other restabilization techniques		0	0	2	0	0

**2.5 GRADING/DRAINAGE**



Yes	2.5.1	Patio slabs, walks and driveway shall be sloped a minimum of 1/8" per foot away from house	Default Value	0	0	0	1	0
Yes	2.5.3	Retill top twelve inches of soil after construction		0	0	2	0	2
Yes	2.5.4	Bearing capacity and soil permeability of the site are tested		0	0	1	1	0
Yes	2.5.8	Plant a rain garden Notes: Collects back half of the house	40%	0	0	2	0	0

**3. Building Envelope**

**3.1 PREREQUISITES NEW & ADDITIONS**



Yes	3.1.1	Install Radon System	Default Value					
Yes	3.1.2	No Vapor Retarders on Interior Side of Air-Permeable Foundation Insulation	Default Value					
Yes	3.1.3	Sump pump covers mechanically attached with full gasket seal or equivalent	Default Value					
Yes	3.1.4	Drain tile installed at basement and crawlspace walls, with the top of the drain tile pipe below the bottom of the concrete slab or crawlspace floor	Default Value					
Yes	3.1.5	Drainage Plane Behind Exterior Wall Cladding	Default Value					
Yes	3.1.6	Window and door openings fully flashed	Default Value					
Yes	3.1.7	Step and Kick-Out Flashing at all Roof-Wall Intersections						
Yes	3.1.8	Install gutters and downspouts on homes to direct rainwater down and away	Default Value					
Yes	3.1.9	Leaf & debris filters must be added to gutters	Default Value					
Yes	3.1.10	A capillary break beneath all slabs (e.g., slab on grade, basement slab)	Default Value					
Yes	3.1.11	Roof Deck Valleys and Penetrations Sealed	Default Value					



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Yes	3.1.12	Capillary break at all crawlspace floors using 6 mil polyethylene sheeting, lapped 6-12 in	Polyethylene Sheeting under Concrete Slab					
Yes	3.1.13	Damp-Proof Exterior Surface of Below-Grade Walls						
Yes	3.1.14	Roof Eaves Sealed with Self-Adhering Membrane in Cold Climates	Default Value					
Yes	3.1.15	Building Materials with High Moisture Content Not Enclosed	Default Value					
Yes	3.1.16	Flashing at Bottom of Exterior Walls	Default Value					
Yes	3.1.17	New structural plywood & OSB must conform to PS1 and PS2 standards.	Default Value					
Yes	3.1.18	Meet IECC 2015 in all fenestrations	Default Value					
Yes	3.1.19	Meet IECC 2015 in all new ceilings and attics	Default Value					
Yes	3.1.20	Meet IECC 2015 in all new framed walls	Default Value					
Yes	3.1.21	Meet IECC 2015 in all new mass walls	Default Value					
Yes	3.1.22	Meet IECC 2015 in all new floors over unconditioned space	Default Value					
Yes	3.1.23	Meet IECC 2015 in all new foundation slabs	Default Value					
Yes	3.1.24	Meet IECC 2015 in all new crawlspaces	Default Value					
Yes	3.1.25	Meet IECC 2015 in all new below grade walls	Default Value					
<b>3.5 WALLS &amp; CEILINGS</b>								
Yes	3.5.9	24 inch on center framing		0	0	0	2	0
Yes	3.5.10	2 stud corners with drywall clips		0	0	0	1	0
Yes	3.5.12	Interior wall finish is min. 1/2 inch from concrete slabs.		0	0	0	1	0
Yes	3.5.13	Door & Window headers sized for load		0	0	0	1	0
Yes	3.5.14	Use No VOC healthier paints/stains/primers Notes: Send photo and receipt of paint.	ZERO VOC	0	3	0	0	0
<b>3.6 SIDING</b>								
Yes	3.6.2	Fiber-cement or wood composite siding	90%	0	0	0	2	0
Yes	3.6.4	Exposed wood or other absorptive material is kept at least 12 inches from soil		0	0	0	1	0
<b>3.7 WINDOWS, SKYLIGHTS &amp; DOORS</b>								
Yes	3.7.2	Windows and/or skylights are fiberglass	90%	0	0	0	2	0
Yes	3.7.6	New cover on a new entry. Must extend three feet out from new entry.	50% of entry's	0	0	0	1	0

**3.8 ATTICS & ROOFS**

Yes	3.8.5	Better roofing materials	50%	0	0	1	1	0
Yes	3.8.7	New roofing material contains recycled content	50% of square footage	0	0	0	1	0

**4. HVAC & Mechanical****4.1 OVERALL PREREQUISITES**

Yes	4.1.1	Proper whole house ventilation						
Yes	4.1.2	All flex duct pulled tight-no pinches	Default Value					
Yes	4.1.3	All new ductwork must be sealed	Default Value					
Yes	4.1.4	All new gas appliances must be sealed combustion	Default Value					
Yes	4.1.5	Install carbon monoxide detector(s)	Default Value					
Yes	4.1.6	For each condensate-producing HVAC component, corrosion-resistant drain pan included that drains to a	Default Value					
Yes	4.1.7	Install basic programmable thermostat(s)	Default Value					
Yes	4.1.8	No new air handling equipment shall be installed in a garage.	Default Value					
Yes	4.1.8	Install higher MERV rated Filter	MERV 8					
Yes	4.1.10	Refrigerant charge test by HVAC contractor						
Yes	4.1.11	Fireplaces/Stoves with Proper Ventilation	Default Value					

**4.2 NEW SYSTEM(S) PREQUISITES**

Yes	4.2.1	No new unvented combustion units	Default Value					
Yes	4.2.2	No air handlers or conditioning equipment shall be placed in unconditioned spaces (e.g., garage)	Default Value					
Yes	4.2.3	New ducting MAY NOT use building cavities as part of air supply or return system.	Default Value					
Yes	4.2.4	All New bath fan ducting that is in unheated space shall be insulated to min R8 Notes: Send photo	Default Value					

**4.3 HEATING AND COOLING EQUIPMENT**

Yes	4.3.1	Install multiple zones in home to improve energy efficiency.		4	2	0	0	0
Yes	4.3.3	AC or Heat Pump refrigerant is HCFC and HFC alternative		0	0	3	0	0

#### 4.4 VENTILATION AND FRESH AIR FOR OCCUPANTS



Yes	4.4.1	Install better ventilation in bathroom(s).	100% of all bathrooms	2	3	0	4	0
Yes	4.4.2	Bathroom automatic controls for ventilation	100% of Bathrooms	2	4	0	4	0
Yes	4.4.3	Properly Ventilate the Kitchen	Hoodrange Installed	0	2	0	2	0
Yes	4.4.4	Better ventilation system	ERV/HRV	1	2	0	1	0
Yes	4.4.6	Install garage exhaust fan Notes: Detached garage	No garage	1	2	0	0	0

#### 4.5 DUCTING/AIR DISTRIBUTION STRATEGIES








Yes	4.5.1	Room by room balancing		0	1	0	0	0
Yes	4.5.2	All supply duct take-offs spaced 6" apart minimum		1	0	0	0	0
Yes	4.5.3	All ductwork is rigid (no flex duct used anywhere)		1	0	0	0	0

## 5. Electrical

#### 5.1 PREREQUISITES



Yes	5.1.1	Minimum of one carbon monoxide alarm installed within ten (10) feet of each bedroom.	Default Value					
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#### 5.2 APPLIANCES



Yes	5.2.2	Refrigerator is energy star or up down	Default Value	1	0	0	0	0
Yes	5.2.3	Energy Efficient Dryer Installed Notes: Send product photo	Energy Star Dryer	1	0	0	0	0

#### 5.3 FANS, FIXTURES AND LIGHTS



Yes	5.3.1	Install LED Lighting	100% LED	2	0	0	0	0
Yes	5.3.6	Reduce light pollution by shielding fixtures and /or directing light downward		0	0	1	0	0
Yes	5.3.7	Ceiling fan pre-wires provided		0	0	0	1	0

## 6. Plumbing Systems & Fixtures

#### 6.1 PREREQUISITES



Yes	6.1.1	Install Sump Pump with Cover Gasket						
Yes	6.1.2	No new supplies or drains in exterior walls	Default Value					

#### 6.2 EQUIPMENT



Yes	6.2.3	Dishwasher is energy star	Default Value	1	0	0	0	1
Yes	6.2.4	Clothes Washer is Energy Star	Default Value	1	0	0	0	1

**6.3 FIXTURES**

Yes	6.3.1	Limit shower heads to one per shower		0	0	0	0	2
Yes	6.3.2	Toilets	1.3 GPF	0	0	0	0	3
Yes	6.3.3	Bathroom Aerator(s)	1.5 GPM	0	0	0	0	2
Yes	6.3.4	Shower heads	2 GPM	0	0	0	0	1
Yes	6.3.5	Watersense certified products by type	3 types	0	0	0	0	3

**6.4 PIPING**

Yes	6.4.2	Better piping system	PEX in 70% of piping	1	0	1	1	0
Yes	6.4.4	Insulate all hot water lines to minimum R-4		2	0	0	0	0
Yes	6.4.5	Centralize water heater, place as equidistant from fixtures as possible	Centralized	1	0	0	0	1

**7. Finish Materials & Coatings****7.1 PREREQUISITES**

Yes	7.1.1	New durable and moisture resistant floors in bathrooms, kitchens, entryways and utility rooms						
Yes	7.1.2	All new interior primer/paint/stains certified low voc	No Voc					
Yes	7.1.3	No paper-coated drywall in shower or tub surround Notes: Send photo	Default Value					
Yes	7.1.4	No vinyl wall coverings allowed in moisture-rich areas	Default Value					

**7.2 FLOORING**

Yes	7.2.3	No or less carpet installed on all flooring (besides basement)	95% of applications	0	3	0	2	0
Yes	7.2.4	No carpet installed in basement		0	3	0	1	0
Yes	7.2.8	New Flooring is low or no emitting VOCs	90% of square footage	0	2	0	0	0
Yes	7.2.12	Install tile or stone for all shower flooring		0	2	0	0	0

**7.4 COUTERTOPS WITH GREEN ATTRIBUTES**

Yes	7.4.6	New countertops are low or no emitting VOCs Notes: Hanstone	90% of square footage	0	2	0	0	0
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**8. Waste Management****8.1 CONSTRUCTION & DEMOLITION WASTE**

Yes	8.1.11	Store and provide weather protection to building materials for future use by homeowner		0	0	1	0	0
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**8.2 DECONSTRUCT FOR REUSE THE FOLLOWING ITEMS**

Yes	8.2.2	Cabinets, millwork or trim (70% minimum)		0	0	1	1	0
Yes	8.2.3	Doors (minimum of 2)		0	0	1	1	0
Yes	8.2.6	Windows (minimum of 2)		0	0	1	1	0
Yes	8.2.9	Other items not listed recycled		0	0	1	1	0

**8.3 RECYCLE THE FOLLOWING ITEMS**

Yes	8.3.1	Packaging Notes: Atomic Recycling		0	0	1	0	0
Yes	8.3.2	Workers' beverage containers	Default Value	0	0	1	0	0
Yes	8.3.4	Metal	50%	0	0	1	0	0
Yes	8.3.11	Recycle or compost Wood scraps	50%	0	0	1	0	0

**8.4 HOMEOWNER WASTE REDUCTION**

Yes	8.4.1	Install recycle center for homeowner use Notes: Photo of recycling center		0	0	1	0	0
Yes	8.4.2	Provide kitchen scrap compost bin and exterior compost bin Notes: City organic recycling		0	1	2	0	0
Yes	8.4.3	Recycle yard waste that cannot be composted		0	0	1	0	0

**9. Occupant Education + Better Living****9.1 HOMEOWNER AND SUBCONTRACTOR EDUCATION**







Yes	9.1.1	Builder Manager and/or Tenant Education	Default Value					
Yes	9.1.2	Provide homeowner with a user's manual Notes: Homeowner manual draft must be provided on all projects and uploaded online and linked here in the comment box.	Default Value					
Yes	9.1.4	Expand homeowner's user manual		1	1	1	1	1
Yes	9.1.5	Provide owners of home with two radon test kits designed for 48-hour exposures, including instructions for future use and guidance for follow-up actions to testing results Notes: 5 day tests, one came in at 1.0 and 0.9 pC/L		0	1	0	0	0



## 10. Reduced exposure to EMFs

### 10.1 DESIGN FOR REDUCED ELECTRICAL AND MAGNETIC FIELDS



							
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	10.1.12	Install CAT-5e (enhanced) or CAT-6 shielded data cable throughout house to every room where computers and telephones will be used. Avoid Wi-Fi. Use hardwired, corded telephones rather than cordless telephones.	0	1	0	1	0