greenstar

2219 W. Cortez Street, Chicago, IL 60622

Points:						Total	Level
Min Required:	82	15	23	15	15	60	
Proposed:	0	0	0	0	0	0	
Yes:	185	101	93	91	55	525	Gold
Verified:	236	111	93	134	55	629	Platinum
Eligible Pillars:	✓	✓	✓	✓	✓		

1. Planning, Design and Energy Modeling

	1.1	**OVERALL REQUIREMENTS**							
Yes	1.1.5	Select project type	Renovation - Single Family						
Yes	1.1.6	Project climate zone Notes: Climate Zone 5	Default Value						
Yes	1.1.11	Use Integrated Pest Management (IPM) methods to minimize pest entry. Notes: Caulked and sealed all transitions, Flue screens installed	Default Value						
Yes	1.1.12	Use certified wood if importing outside of US and Canada - FSC or SFI Notes: No tropical wood used, most was salvaged lumber. Other was SFI	Default Value						
Yes	1.1.22	Seal all ducts and air handlers to prevent contamination during construction. Notes: Only CERV, photos included in Box	Default Value						
	1.2	**REMODELING REQUIREMENTS**							
Yes	1.2.10	Perform radon test in lowest possible habitable space. Mitigate if necessary. Notes: Radon test in 2015. https://www.dropbox.com/preview/Family Stuff/HomeStuff/RadonTestResult.2015.10.pdf?role=personal	Default Value						
Yes	1.2.14	Asbestos Inspection performed & removed if found Notes: inspected by builder, rater, architect prior to construction		0	1	0	0	0	
Yes	1.2.15	Lead paint test performed & fixed if found Notes: lead paint was detected along exterior south wall. HEPA filtration and other measures taken to contain old paint soil testing for lead was done after project completion		0	1	0	0	0	

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	1.3	**INTEGRATED & TRAINED PROJECT TEAM**							
Yes	1.3.1	Create multi-disciplinary project team and host pre-construction meetings. Notes: documentation by TBDA		1	1	1	1	1
Yes	1.3.3	Contract with a GreenStar approved Rater for an existing home inspection Notes: ecoachievers		1	1	1	1	1
Yes	1.3.4	Hire a credentialed HQUITO or NATE HVAC contractor Notes: Chase Mechanical is listed https://www.advancedenergy.org/portal/hvac/members.php		1	1	0	0	0
Yes	1.3.6	Certified GreenHome Professional Serving on project team Notes: TBDA, Newgrange, Ecoachievers,	Default Value	1	1	1	1	1
Yes	1.3.7	Complete optional preliminary plan review & registration	Default Value	1	1	1	1	1
	1.4	**ENERGY USE REDUCTION**							
Yes	1.4.2	Air Changes Per Hour (ACH) (VERSION 1 ONLY) Notes: Confirmed at 3.7 ACH	3.5	18	0	0	0	0
Yes	1.4.4	Home is certified to an energy efficiency standard	NA	0	0	0	0	0
Yes	1.4.5	HERS index rating Notes: Projected HERS is 33	35	50	0	0	0	0
	1.5	**DESIGN**							
Yes	1.5.0	Pre Occupancy Air Flush Notes: performed by owner for over 48 hours	Default Value					
Yes	1.5.2	Home or building is ready for Solar PV in the future Notes: PV system installed		0	0	1	2	0
Yes	1.5.6	No interior fireplace installed		0	2	0	0	0
Yes	1.5.7	Passive solar heating design package Notes: low e coatings on windows, non-roof overhangs along South and SE windows in the addition, vertical external shades/Louvers along S/E window, Interior reflecting shades installed.		6	0	0	0	0
Yes	1.5.11	No garage or detached garage Notes: Detached garage	Detached garage	0	3	0	0	0
	1.6	**HOME LOCATION AND SITE SELECTION**							
Yes	1.6.1	Ability to walk to community services. (walkscore.com) Select one: Notes: Walkscore 93 - confirmed (LEE)	Walkscore 90+	0	0	5	0	0
Yes	1.6.2	Access to public transportation. Notes: Less than 1/4 mile from Western and Western Express buses (LEE)	1/4 mile	0	0	4	0	0
Yes	1.6.3	Site is bike friendly Notes: 90 Bike Score (LEE)	Bikers paradise. Bike Score 90-100.	0	0	4	0	0
Yes	1.6.4	Publicly accessible outdoor space (3/4 acre or greater) Notes: Columbus Elementary School - 0.2 miles (LEE)	Within 1/4 mile from site	0	0	2	0	0
Yes	1.6.8	Housing density average >7 units per acre		0	0	4	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						
	2.2	**PLANTINGS AND IRRIGATION**							
Yes	2.2.1	Soil tested and amended to achieve optimal nutrient level and structure Notes: soil tested by Green Edens, amended		0	0	1	0	1	
Yes	2.2.2	50% or more of the lot contains plants or trees other than turf		0	0	2	0	0	
Yes	2.2.3	Total site has XX% permeable surface. Select one: 65% of undeveloped site is permeable Notes: 81.5%; Total undeveloped = 1216 sqft, permeable 991 sqft		0	0	2	0	0	
Yes	2.2.4	New plantings are compatible with soil type Notes: Yes, per landscape architect after final installation		0	0	2	0	2	
Yes	2.2.4	Native / Drought Tolerant and/or Adaptive Plants Notes: all native plants	60%	0	0	3	0	1	
Yes	2.2.9	Compost Bin Installed or Service Registration Notes: compost bin in garden installed	Default Value	0	0	1	1	0	
Yes	2.2.10	Low-water/no-mow mix is used on 100% of turf areas Notes: 3 types, all low water mix	Default Value	0	0	0	0	2	
Yes	2.2.11	% of property used for gardening/ farming	10% of land	0	1	1	0	0	
Yes	2.2.12	Design around or install deciduous trees on the south, east, and west sides of home Notes: SE: dogwood tree SW: paw paw trees		2	0	0	0	0	
Yes	2.2.14	All plantings and plant materials are kept at least " from house	24 Inches	0	0	0	2	0	
Yes	2.2.16	Apply two inches of compost in the top 6 to 12 inches of soil in flower & vegetable garden beds	Default Value	0	0	1	0	0	
Yes	2.2.17	Use slow-release organic fertilizers to establish vegetation Notes: worm compost utilized, slow release fertilizers added to appropriate area (new tree) leaf mulch added		0	0	1	0	0	
	2.4	**EROSION CONTROL**							
Yes	2.4.1	Turf is not installed on slopes exceeding 25% rise		0	0	1	0	0	
Yes	2.4.2	Apply mulch to at least 3 inches of all planting beds (no cypress mulch allowed)		0	0	0	0	1	

	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	2.5.4	Plant a rain garden Notes: 2 rain gardens designed to capture 441 sqft of roof rainwater: (21%)	40%	0	0	2	0	0
Yes	2.5.7	Drainage system at base of garage and driveway that captures 90% of run-off and keeps it on-site Notes: See Landscape plan		0	0	2	0	0
	2.7	**DELETE**						
Yes	2.7.1	Roof water drainage system that captures xx% of roof area for irrigation use (storage capacity for 1/2"" rain event & overflow to absorption area) Select one: Notes: Total collection planned: 330 gallons roof rainwater calculation: rain on roof of house 1600 sqft x 0.623 x 0.5	50%	0	0	7	0	7
	2.8	**DELETE**						
Yes	2.8.1	Develop landscape maintenance plan		0	0	1	0	2
Yes	2.8.2	Landscape system that requires no municipally-supplied water or well water for irrigation (food gardens exempt)		0	0	1	0	6
Yes	2.8.6	Hydro zoning	Default Value	0	0	0	0	3

3. Building Envelope

	3.1	**PREREQUISITES NEW & ADDITIONS**						
Yes	3.1.2	Any wall cavities exposed must be air-sealed and insulated	Default Value					
Yes	3.1.17	New structural plywood & OSB must conform to PS1 and PS2 standards. Notes: New addition only	Default Value					
	3.3	**FOUNDATIONS, CRAWLSPACES, & SLABS**						
Yes	3.3.5	Install 4" bed of 3/4" diameter or greater clean or washed gravel on top of basement and/or crawlspace soil before any other flooring work is done.		0	1	0	1	0
Yes	3.3.15	Install 4" min. perforated foundation drain w/ 3/4" gravel and filter fabric at inside perimeter of new footings.		0	1	0	1	0
Yes	3.3.17	Capillary Break Beneath Slab or basement - Polyethylene Sheeting or Rigid Insulation.		0	0	0	1	0
Yes	3.3.20	Foundation walls are solid concrete -- OR -- CMU wall with top course of filled cores, solid block or bond beam.		0	0	0	1	0
Yes	3.3.22	Water based waterproofing system Notes: Bentonite injection and membrane		0	0	0	1	0
Yes	3.3.27	Use spray foam to air seal and insulate interior foundation walls and rim joists.		1	0	0	1	0

	3.4	**WALLS & CEILINGS**						
Yes	3.4.4	Door & Window headers sized for load		0	0	0	1	0
	3.5	**SIDING**						
Yes	3.5.2	Vented rain screen installed over sealed drain plane. Possible for all types of siding EXCEPT stucco. Properly installed new or existing stucco qualifies for this credit.		0	0	0	1	0
Yes	3.5.3	Siding and trim are back-primed on all sides		0	0	0	1	0
Yes	3.5.4	Fiber-cement or wood composite siding	50%	0	0	0	1	0
Yes	3.5.6	Exposed wood or other absortive material is kept at least 12 inches from soil		0	0	0	1	0
	3.6	**WINDOWS, SKYLIGHTS & DOORS**						
Yes	3.6.0	New and Replacement units must meet energy code (existing windows are exempt)	Default Value	0	0	0	0	0
Yes	3.6.2	Windows must be ENERGY STAR and National Fenestration Rating Council (NFRC) labeled (existing window sash are exempt)	Default Value	0	0	0	0	0
Yes	3.6.3	Windows and/or skylights are fiberglass Notes: new windows (Alpen) are fiberglass	50%	0	0	0	1	0
Yes	3.6.4	Air seal around outside of window and door units with low expansion foam insulation.	Default Value	0	0	0	0	0
Yes	3.6.9	Install, adjustable interior solar shades, or reflective blinds		1	0	0	0	0
Yes	3.6.10	New cover on a new entry. Must extend three feet out from new entry.	50% of entry's	0	0	0	1	0
Yes	3.6.12	Door(s) are wood.		0	0	0	3	0
Yes	3.6.13	Door(s) have metal outer skin. (i.e. aluminum or steel)		0	0	0	2	0
	3.10	**DELETE**						
Yes	3.10.0	Seal all attic by-passes (spot seal with foam or caulk --OR-- spray foam entire attic floor)		2	2	0	0	0
	3.12	**DELETE**						
Yes	3.12.0	Bottom plates of exterior walls sealed to floor or foundation with a proper sealant		1	0	0	0	0
Yes	3.12.2	Seams and penetrations in rim joist between conditioned floors are sealed		1	0	0	1	0
Yes	3.12.3	Seal rim joists at all locations and connection with attic at exterior walls		1	0	0	0	0
Yes	3.12.6	Stud cavities shall be blocked at locations of varying ceiling height, such as in common walls between adjacent rooms		1	0	0	0	0
Yes	3.12.7	Seal all gypsum or magnesium board penetrations in exterior walls using caulk, gaskets or appropriate connection with gypsum board		1	1	0	1	0
Yes	3.12.8	Seal drywall at top plate, bottom plate and penetrations with gasket, sealant or glue		1	1	0	1	0

	3.15	DELETE						
Yes	3.15.0	Windows and/or skylights have a U-factor of: (at least 90% of units)	.24 or less	5	0	0	0	0
Yes	3.15.5	Window and/or skylight air leakage rating < 0.30 cfm/s.f. Notes: lamilux skylights		2	0	0	0	0
Yes	3.15.6	East/west facing windows and/or skylights have SHGC ≤ 0.35 Notes: see stickers		1	0	0	0	0
Yes	3.15.8	Add exterior shading to new windows on south and west side of home, such as awnings on south or west, vertical fins on west, etc. Notes: awning on south and east facing windows, vertical fins on East wall window, (no W facing window in addition)		2	0	0	0	0

	3.16	DELETE						
Yes	3.16.3	Spray foam insulation applied in new studs		1	1	0	1	0
Yes	3.16.5	Weighted R-value of wall assemblies Notes: average is over R20	R20 to R21	2	0	0	0	0

4. HVAC & Mechanical

	4.1	OVERALL PREREQUISITES						
Yes	4.1.0	Proper whole house ventilation		0	3	0	0	0
Yes	4.1.0	All flex duct pulled tight-no pinches	Default Value					
Yes	4.1.5	All new ductwork must be sealed	Default Value					
Yes	4.1.7	All new gas appliances must be sealed combustion	Default Value					
Yes	4.1.7	Install carbon monoxide detector(s)	Default Value					
Yes	4.1.8	Install basic programmable thermostat(s)	Default Value					
Yes	4.1.9	No new air handling equipment shall be installed in a garage.	Default Value					
Yes	4.1.10	Refrigerant charge test by HVAC contractor Notes: performed by Chase Mechanical		1	0	0	0	0
Yes	4.1.12	Install higher MERV rated Filter Notes: Merv 13	MERV 10+	0	3	0	0	0

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	4.2	**NEW SYSTEM(S) PREQUSITES**							
Yes	4.2.0	No new unvented combustion units	Default Value						
Yes	4.2.2	No equipment is permitted that intentionally produces ozone as a product rather than as an incidental by-product	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						
	4.3	**HEATING AND COOLING EQUIPMENT**							
Yes	4.3.0	No direct expansion systems allowed	Default Value						
Yes	4.3.2	Condensation must drain into drain system not under slab							
Yes	4.3.3	Design and install heating a cooling equipment according to manual J calculations.		3	0	0	2	0	
Yes	4.3.4	"Substantially better than ENERGY STAR (>9.0HSPF, > 94 AFUE Furnace, > 90 AFUE Boiler.) Heating & Cooling Equipment Efficiency.		15	0	0	0	0	
Yes	4.3.6	Install multiple zones in home to improve energy efficiency.		4	2	0	0	0	
Yes	4.3.7	Install hydronic in-floor heating system connected to heat source that has at least 80% AFUE boiler. Connecting to ground source heat pump or hot water solar systems also qualify.		4	2	0	2	0	
Yes	4.3.9	AC or Heat Pump refrigerant is HCFC and HFC alternative Notes: R410A used		0	0	3	0	0	
	4.4	**VENTILATION AND FRESH AIR FOR OCCUPANTS**							
Yes	4.4.2	Install better ventilation in bathroom(s). Notes: CERV installed with remote trigger in all bathrooms	100% of all bathrooms	2	3	0	4	0	
Yes	4.4.3	Properly Ventilate the Kitchen Notes: CERV , trigger switch installed , triggered by hood light. kitchen vent also installed.	HRV or ERV used for kitchen	1	2	0	2	0	
Yes	4.4.4	Bathroom automatic controls for ventilation Notes: trigger switch in each bathroom will trigger a preset period of ventilation by the CERV	100% of Bathrooms	2	4	0	4	0	
Yes	4.4.6	Install garage exhaust fan	No garage	1	2	0	0	0	
Yes	4.4.7	Check air filter hardware for tightness and correct if leaks are detected		0	0	1	0	0	
Yes	4.4.9	Better ventilation system	Balanced	0	2	0	1	0	

	4.5	DUCTING/AIR DISTRIBUTION STRATEGIES						
Yes	4.5.4	All ductwork is rigid (no flex duct used anywhere)		1	0	0	0	0
Yes	4.5.5	Properly designed ductless HVAC system installed in home. Ducted bath fan, kitchen hood and make-up air allowed.		0	2	0	2	0
Yes	4.5.12	No radiator pipes located through an unconditioned space (i.e. unconditioned crawlspace, attic, or garage)		1	0	0	0	0
Yes	4.5.17	Perform duct blaster test for TOTAL DUCT LEAKAGE. Air leakage < 15% of air handler flow		6	1	0	0	0
	4.6	**DELETE**						
Yes	4.6.0	All newly added ductwork kept in conditioned space and interior walls. Ductwork allowed in vaulted ceiling provided it stays on the conditioned side and the minimum R-values are still met		2	0	0	0	0
Yes	4.6.6	Existing duct trunk lines in un-conditioned space insulated	R10	2	1	0	0	0
Yes	4.6.10	Coordinate ductwork and framing		2	1	0	0	0
Yes	4.6.11	Protect all duct registers / returns with solid material during construction	Default Value	0	1	0	0	0

5. Electrical

	5.1	PREREQUISITES						
Yes	5.1.0	New appliances must meet or exceed ENERGY STAR requirements	Default Value					
Yes	5.1.0	Remove all knob and tube wiring from home		0	10	0	0	0
Yes	5.1.8	Minimum of one carbon monoxide alarm installed within ten (10) feet of each bedroom.	Default Value					
	5.2	**APPLIANCES**						
Yes	5.2.2	Refrigerator - ENERGY STAR rated Install Super Efficient Home Appliances - CEE Tier One and/or Install Super Efficient Home Appliances Notes: Subzero BI42UFD/S		2	0	1	0	0
Yes	5.2.3	Room Air Conditioner - ENERGY STAR rated and/or Install Super Efficient Home Appliances Notes: Mitsubishi outdoor MXZ-5C42NAHZ, SEER 19 indoor MSZGL06NA CEE Tier3	Install Super Efficient Home Appliances - CEE Tier One	1	0	0	0	0
Yes	5.2.4	Dishwasher - ENERGY STAR rated Install Super Efficient Home Appliances - CEE Tier One and/or Install Super Efficient Home Appliances Notes: Miele G6305SCU installed		1	0	0	0	1
Yes	5.2.5	Clothes washer - ENERGY STAR rated and/or Install Super Efficient Home Appliances Notes: Blomberg WM98200 SX	Install Super Efficient Home Appliances - CEE Tier Three	3	0	0	0	3
Yes	5.2.9	Energy Efficient Dryer Installed Notes: Blomberg DHP24400W	Heat pump	2	0	0	0	0
Yes	5.2.12	Switch outlets for all media rooms Notes: media and office equipment on switched powerstrips		1	0	0	0	0

	5.3	**FANS, FIXTURES AND LIGHTS**						
Yes	5.3.10	Install high efficient lighting in high use rooms		0	0	0	0	0
Yes	5.3.15	Install automatic indoor lighting controls Notes: Stack smart lighting (motion sensor) in : kitchen, hallways (2) , family room, Office, Sunroom, 1 bedroom motion sensor lighting in stairways (2)	50% of rooms have motion or photosensors	3	0	0	0	0
Yes	5.3.22	Install automatic outdoor lighting controls or photocells/timers Notes: motion sensor lights: East side (above stairway), Front entrance, Rear door, garage side entrance		1	0	0	0	0
Yes	5.3.23	Reduce light pollution by shielding fixtures and /or directing light downward Notes: lights are directed downward by design or orientation		0	0	1	0	0
	5.4	**ENERGY STORAGE**						
Yes	5.4.2	Car charging equipment installed in project	Standard charger	0	1	1	0	0

6. Plumbing Systems & Fixtures

	6.1	**PREREQUISITES**						
Yes	6.1.2	No new supplies or drains in exterior walls	Default Value					
	6.3	**FIXTURES**						
Yes	6.3.2	Install NSF certified water filtration Notes: APEC WTS MAX 15: WQA certified, NSF/ANSI Standard 61	Drinking water at tap	0	4	0	0	0
Yes	6.3.4	Install chlorine filters on all shower heads Notes: Chlorine filtration is part of whole house filter. see APEC specs sheet		0	1	0	0	0
Yes	6.3.5	Limit shower heads to one per shower		0	0	0	0	2
Yes	6.3.11	Toilets	.8 GPF	0	0	0	0	8
Yes	6.3.12	Watersense certified products by type Notes: Toilets: Niagara Conservation Bathroom sink faucets: Hansgrohe Metris , Pfister Jaida Shower heads: Hansgrohe Chroma 220, Raindance E150, Raindance Select E120	3 types	0	0	0	0	3
Yes	6.3.16	Bathroom Aerator(s) Notes: bathroom faucets are 1.5 gpm or 1.2 gpm	1.5 GPM	0	0	0	0	2
Yes	6.3.20	Shut off valve, motion sensor, or pedal activated faucet to enable intermittent on/off operation (kitchen or lavatory)		0	0	0	0	2

	6.4	**PIPING**						
Yes	6.4.2	Replace galvanized water lines Notes: all pipes were galvanized; all replaced with copper supply pipes		0	3	0	0	0
Yes	6.4.3	Install circulation loop within 10' of each fixture (except utility sink)		0	0	0	0	2
Yes	6.4.5	Install water heater pipe insulation for first 20' of pipe		1	0	0	0	0
Yes	6.4.6	Insulate all hot water lines to minimum R-4		2	0	0	0	0
Yes	6.4.7	Centralize water heater, place as equidistant from fixtures as possible	Centralized	1	0	0	0	1
	6.5	**WATER SYSTEMS**						
Yes	6.5.2	Install solar domestic water heating system (min. 50% of water heating load)		7	0	0	0	0

7. Finish Materials & Coatings

	7.1	**PREREQUISITES**						
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	7.2.0	Floor is Refinishable / Resurfaceable	90% of square footage	0	0	1	5	0
Yes	7.2.2	No or less carpet installed on all flooring (besides basement)	50% of applications	0	2	0	1	0
Yes	7.2.4	Install tile or stone for all shower flooring		0	2	0	0	0
Yes	7.2.5	Finished floor and underlayment contains no added urea-formaldehyde		0	1	0	0	0
Yes	7.2.5	No carpet installed in basement		0	3	0	1	0
	7.3	**CABINETRY WITH GREEN ATTRIBUTES**						
Yes	7.3.3	Locally sourced Notes: sourced from cabinet maker 2.9 miles away		3	0	0	0	0
Yes	7.3.7	Rapidly renewable content Notes: http://www.steelskininc.com/sustainability all cabinetry are Steelskin EcoVeneers: 100% recycled cellulose fibers and water-based phenolic coatings		0	0	0	3	0
Yes	7.3.9	Reduced waste in manufacturing Notes: cabinet builder uses software to minimize waste of material http://www.steelskininc.com/sustainability		0	0	0	1	0
	7.4	**COUTERTOPS WITH GREEN ATTRIBUTES**						
Yes	7.4.3	Low emitting or no-added-formaldehyde (NAF or NAUF) (see requirements in manual) Notes: quartz countertop in all areas	90%	0	2	0	0	0

	7.5	**MILLWORK WITH GREEN ATTRIBUTES**						
Yes	7.5.0	Locally sourced	90%	4	0	4	0	0
Yes	7.5.0	Low emitting or no-added-formaldehyde (NAF or NAUF) (Millwork)	90% of square footage	0	2	0	0	0
	7.6	**INTERIOR DOORS WITH GREEN ATTRIBUTES**						
Yes	7.6.0	Salvage/reclaimed/recovered (Interior Doors)	90% of square footage	0	0	0	5	0
Yes	7.6.5	Salvage/reclaimed/recovered	90%	0	0	0	5	0
Yes	7.6.11	50% or 90% of interior doors are in a combination of materials that have 1 or more Green attributes	50% of total interior doors	0	0	1	2	0
	7.7	**COATINGS AND ADHESIVES**						
Yes	7.7.2	Adhesives are urea-formaldehyde free Notes: http://www.steelskininc.com/sustainability see Steelskin website		0	1	0	0	0
Yes	7.7.3	Caulks are low VOC (minimum 75% caulk applications)		0	1	0	0	0
	7.11	**DELETE**						
Yes	7.11.0	Primer is low or no voc	No Voc	0	6	0	0	0
Yes	7.11.7	Install tile or stone for all shower or tub surrounds		0	2	0	0	0

8. Waste Management

	8.1	**CONSTRUCTION & DEMOLITION WASTE**						
Yes	8.1.0	Require subcontractors to participate in waste reduction and recycling efforts Notes: recycling process provided. participation in recycling was prereq. process was regularly monitored and education regularly provided		0	0	2	1	0
Yes	8.1.10	Donate, sell or give away excess materials for reuse		0	0	1	0	0
Yes	8.1.11	Store and provide weather protection to building materials for future use by homeowner		0	0	1	0	0
Yes	8.1.12	Deconstruct existing structure and reuse or recycle approximately 90% of the building materials		0	0	10	10	0
	8.2	**DECONSTRUCT FOR REUSE THE FOLLOWING ITEMS**						
Yes	8.2.0	Cabinets, millwork or trim (70% minimum) Notes: millwork and trims reused		0	0	1	1	0
Yes	8.2.3	Doors (minimum of 2) Notes: all interior doors are reused; 2 exterior door reused		0	0	1	1	0
Yes	8.2.4	Bathtubs or sinks (minimum of 2) Notes: 1 kitchen sink reused 2 clawed foot tub deconstructed and donated to Rebuilding exchange	Default Value	0	0	1	1	0
Yes	8.2.7	Good condition carpet (50% minimum) Notes: carpeting for stairway (constitute 100%) reused.		0	0	1	1	0

	8.3	RECYCLE THE FOLLOWING ITEMS						
Yes	8.3.0	Packaging		0	0	1	0	0
Yes	8.3.2	Workers' beverage containers	Default Value	0	0	1	0	0
Yes	8.3.3	Cardboard from new fixtures, appliances, and cabinets (90% minimum)		0	0	1	0	0
Yes	8.3.6	Brick and block Notes: over 90% reused	50%	0	0	1	0	0

	8.4	HOMEOWNER WASTE REDUCTION						
Yes	8.4.0	Install recycle center for homeowner use Notes: recycling bin in backyard, recycling bin built into kitchen drawer, recycling bin allocated in both offices and laundry room.		0	0	1	0	0
Yes	8.4.2	Provide kitchen scrap compost bin and exterior compost bin		0	1	2	0	0

9. Occupant Education + Better Living

	9.1	HOMEOWNER AND SUBCONTRACTOR EDUCATION						
Yes	9.1.0	Expand homeowner's user manual Notes: homeowners are driving the sustainability features		1	1	1	1	1
Yes	9.1.0	Install temperature and humidity sensors Notes: Part of CERV function		0	1	0	1	0
Yes	9.1.0	Homeowner signs up for green energy Notes: contracted to buy 100% renewable energy through Oasis Energy	Green Energy	0	0	1	0	0
Yes	9.1.3	Homeowner given a walk through education during framing to explain design and construction of home.		1	1	1	1	1
Yes	9.1.25	Builder Manager and/or Tenant Education	Default Value					
Yes	9.1.26	Provide homeowner with a user's manual	Default Value					

10. Reduced exposure to EMFs

	10.1	DESIGN FOR REDUCED ELECTRICAL AND MAGNETIC FIELDS						
Yes	10.1.3	Ground electrical panel to approved dedicated ﷺHammered-Inﷺ ground stake (not rebar, plumbing pipes or any integral part of the house) Notes: southeast end of house		0	2	0	0	0
Yes	10.1.4	All electrical wiring in whole house run in metal conduit. (flexible and rigid qualify) Wiring run in metal conduit (low voltage exempt)		0	2	0	1	0
Yes	10.1.7	No fluorescent light fixtures or transformers for halogen lighting systems in ceiling beneath a child's bedroom or within 6' of a sleeping area.		0	1	0	0	0
Yes	10.1.14	Refrigerator is not located within 6 feet of sleeping area Notes: EMF readings of refrigerator is negligible as well.		0	1	0	0	0